PAGE	SUBJECT
805	SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION
806	#2 - 6/1 ACSR/AW SPARROW SAG AND TENSION TABLES
807	1/0 - 6/1 ACSR/AW RAVEN SAG AND TENSION TABLES
808	3/0 - 6/1 ACSR/AW PIGEON SAG AND TENSION TABLES
809	4/0 - 6/1 ACSR/AW PENGUIN SAG AND TENSION TABLES
810	336.4 - 26/7 ACSR/AW LINNET SAG AND TENSION TABLES
811	397.5 - 26/7 ACSR/AW IBIS SAG AND TENSION TABLES
812	636 - 24/7 ACSR/AW ROOK SAG AND TENSION TABLES
813	1033.5 - 45/7 ACSR/AW ORTOLAN SAG AND TENSION TABLES
814	#2 5/2 AWAC SAG AND TENSION TABLES
815	#2 3/4 AWAC SAG AND TENSION TABLES
816	#6 3-STR BARE COPPER SAG AND TENSION TABLES
817	#4 3-STR BARE COPPER SAG AND TENSION TABLES
818	#2 3-STR BARE COPPER SAG AND TENSION TABLES
819	1/0 BARE COPPER SAG AND TENSION TABLES
820	4/0 BARE COPPER SAG AND TENSION TABLES
821	1/0 RTS TRIPLEX SAG AND TENSION TABLES
822	3/0 RTS TRIPLEX SAG AND TENSION TABLES
823	336.4 RTS TRIPLEX SAG AND TENSION TABLES
824	REDUCED TENSION SPAN CONSTRUCTION - SINGLE/DOUBLE CROSSARMS
825	HORIZONTAL CONDUCTOR SPACING GENERAL INFORMATION

REV	CHANGE	DRWN	BY	CHKD	APVD	DATE
F	ADDED OH825	EDM	JES	JAS	KRG	08/30/2024
E	DRAWING UPDATE	GLC	JIK	MRF	JAS	08/16/2024
D	EDITORIAL CHANGES	EDM	MRF	JES	KRG	07/14/2022

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

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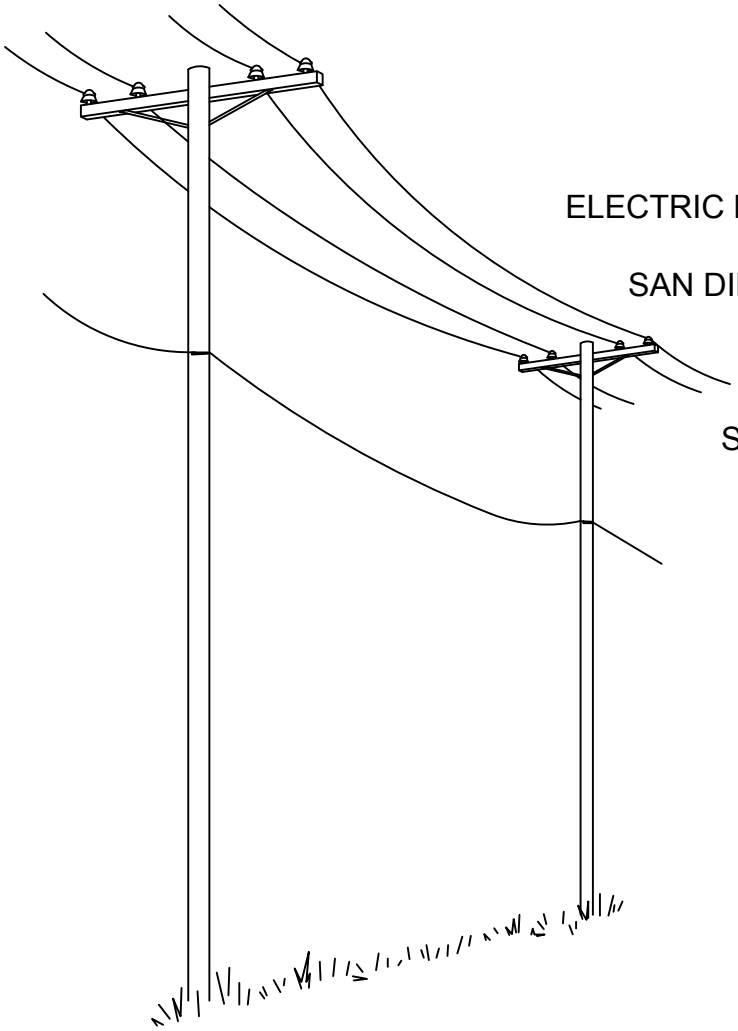
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ELECTRIC DISTRIBUTION STANDARDS

OVERHEAD SAG AND TENSION STANDARDS



ELECTRIC DISTRIBUTION SERVICES DEPARTMENT

SAN DIEGO GAS AND ELECTRIC COMPANY

P.O. BOX 1831

SAN DIEGO, CALIFORNIA 92112

Historical Record: 9/20/2024
External Version

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SAG AND TENSION TABLES
GENERAL INSTRUCTIONS AND INFORMATION

OH805.1

SUMMARY OF CHANGES

DATE	STANDARD PAGES	QTY	FILE NAME
07/01/18	Moved Section 800 out of the Overhead Construction Standards	1	OHSAG2018v0701.pdf
08/17/22	801, 824	2	OHSAG2022v0817.pdf
08/23/24	801	1	OHSAG2024v0823.pdf
09/20/24	801, 825	2	OHSAG2024v0920.pdf

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ARCHIVED BOOKS AVAILABLE ON THE INTERNAL VERSION

SCOPE: THIS STANDARD CONTAINS A DIRECTORY, GENERAL INFORMATION AND INSTRUCTIONS FOR USE OF THE SAG AND TENSION TABLES CONTAINED IN OVERHEAD STANDARDS 806-824.

THIS MANUAL PROVIDES GUIDANCE FOR DESIGNING AND STRINGING THE VARIOUS CONDUCTORS APPROVED FOR INSTALLATION AT SDG&E. THE SAG AND TENSION TABLES HAVE BEEN CALCULATED FOR LIGHT, HEAVY, EXTRA HEAVY LOADING DISTRICTS, AND KNOWN LOCAL WIND CONDITIONS, NORMAL AND REDUCED DESIGN TENSIONS, AND VARIOUS RULING SPAN LENGTHS.

ALL DATA TABLES (f) COMPLY WITH CPUC G.O.95 PUBLICATION RULES AND SDG&E DESIGN PARAMETERS.

A DESCRIPTION OF VARIOUS LOADING DISTRICTS, KNOWN LOCAL WIND CONDITIONS, DETERMINATION AND APPLICATION OF RULING SPAN, AND CONDUCTOR INFORMATION IS ALSO IN THIS MANUAL.

IF A STRINGING SAG/TENSION TABLE WITH DIFFERENT PARAMETERS FROM THOSE CONTAINED IN THIS MANUAL IS NEEDED, CONTACT THE ELECTRIC DISTRIBUTION STANDARDS SECTION, OVERHEAD SYSTEMS GROUP.

JESSE SANDOVAL, SUPERVISOR
ELECTRIC DISTRIBUTION STANDARDS

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CONDUCTOR INFORMATION

CONDUCTOR TYPE	OVERHEAD STANDARD	MAX. HOR. TENSION (LBS)	RULING SPAN (FT)	G.O. 95 LIGHT	G.O. 95 HEAVY	SDG&E EXTRA HEAVY	KNOWN LOCAL WIND 65MPH 85MPH 111MPH
INTRODUCTION	805	850	100 to 500	✓			✓
#2 – 6/1 ACSR/AW Sparrow	806	1240	100 to 500	✓			✓
1/0 – 6/1 ACSR/AW Raven	807	1850	100 to 500	✓			✓
3/0 – 6/1 ACSR/AW Pigeon	808	1000 to 2400	100 to 500	✓			✓
4/0 – 6/1 ACSR/AW Penguin	809	1000 to 3000	100 to 500	✓			✓
336.4 – 26/7 ACSR/AW Linnet	810	1000 to 3000	100 to 500	✓	✓	✓	✓
397.5 – 26/7 ACSR/AW Ibis	811	1000 to 3000	100 to 500	✓	✓	✓	✓
636 – 24/7 ACSR/AW Rook	812	1000 to 3000	100 to 500	✓	✓	✓	✓
1033.5 – 45/7 ACSR/AW Ortolan	813	1000 to 3000	100 to 500	✓	✓	✓	✓
#2 5/2 AWAC	814	1200 to 1800	100 to 500	✓	✓	✓	✓
#2 3/4 AWAC	815	1000 to 3000	100 to 500		✓	✓	✓
#6 3–STRAND BARE COPPER	816	390	100 to 300	✓			✓
#4 3–STRAND BARE COPPER	817	550	100 to 300	✓			✓
#2 3–STRAND BARE COPPER	818	840	100 to 300	✓			✓
1/0 BARE COPPER	819	1340	100 to 500	✓			✓
4/0 BARE COPPER	820	2424	100 to 500	✓			✓
1/0 RTS TRIPLEX	821	1000 to 2000	100 to 500	✓	✓	✓	✓
3/0 RTS TRIPLEX	822	1000 to 2000	100 to 500	✓	✓	✓	✓
336.4 RTS TRIPLEX	823	1000 to 2000	100 to 500	✓	✓	✓	✓

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SAG & TENSION DATA
FRACTIONS TO INCHES CONVERSION TABLE

INCHES	FRACTION EQUIVALENT (FOOT)
1	0.08
2	0.17
3	0.25
4	0.33
5	0.42
6	0.50
7	0.58
8	0.67
9	0.75
10	0.83
11	0.92
12	1.00

THE INTENT OF THIS TABLE IS TO PROVIDE AN EASY WAY TO CALCULATE THE VALUES IN INCHES WHEN THE DESIGN TABLES ARE TO BE USED IN THE FIELD.

HOW TO USE THIS TABLE

READ THE VALUE SHOWN IN THE DESIGN TABLE FOR THE APPROPRIATE CONDUCTOR. IF THE VALUE CONTAINS FRACTION OF FEET, COMPARE THAT VALUE TO THE TABLE ABOVE AND READ THE EQUIVALENCE IN INCHES.

IF A FRACTION VALUE IS BETWEEN THOSE IN THIS TABLE, ROUND OFF TO THE NEAREST VALUE.

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INSTALLATION:
NONE

BILL OF MATERIALS:
NONE

NOTES:

HOW TO USE DESIGN AND SAG TABLES

THE FOLLOWING DESCRIBES THE USE OF THE DESIGN AND INITIAL / FINAL SAG TABLES TO DETERMINE CONDUCTOR GROUND CLEARANCES, SAG AND GUYING TENSION REQUIREMENTS.

I. **RULING SPAN**

THE SAG AND TENSION DATA PRESENTED IN THIS MANUAL ARE BASED UPON THE ASSUMPTION THAT CONDUCTOR TENSION, AT ANY PARTICULAR TIME, WILL BE THE SAME IN EACH SPAN THROUGHOUT A SERIES OF SPANS OF VARYING LENGTH BETWEEN DEAD-END POLES.

DISTRIBUTION POLES ARE QUITE FLEXIBLE NO MATTER THE MATERIAL (WOOD, STEEL OR FIBERGLASS). THEREFORE, WHEN TEMPERATURE CHANGES OR CHANGES IN LOADING CAUSE DIFFERENT TENSIONS IN SPANS OF DIFFERENT LENGTHS, THE POLES AND CONDUCTOR SUPPORT SYSTEMS ARE FLEXIBLE ENOUGH TO EQUALIZE THESE DIFFERENCES AND THE CONDUCTOR TENSIONS ARE ESSENTIALLY THE SAME IN ALL SPANS.

THUS, IT IS POSSIBLE TO CALCULATE THE LENGTH OF A THEORETICAL SPAN WHICH WILL HAVE THE SAME CHANGES IN CONDUCTOR TENSION DUE TO CHANGES OF TEMPERATURE AND CONDUCTOR LOADING AS WILL BE FOUND IN A SERIES OF SPANS OF VARYING LENGTHS BETWEEN DEAD-ENDS. THIS CALCULATED THEORETICAL SPAN LENGTH IS CALLED THE "RULING SPAN" FOR A SECTION OF LINE BETWEEN DEAD-END POLES.

DETERMINATION OF THE RULING SPAN CAN BEST BE SHOWN BY EXAMPLE:

A PRIMARY LINE EXTENSION IS TO BE BUILT IN A LIGHT LOADING DISTRICT USING 336.4 KCMIL ACSR CONDUCTOR. THE SPAN LENGTHS ARE: 140', 170', 365', 160', 303', AND 200', THE TOTAL LENGTH OF THE LINE EXTENSION IS 1338',
THE RULING SPAN CAN BE CALCULATED BY USING THIS FORMULA:

$$RS = \sqrt{\frac{S1^3 + S2^3 + S3^3 + S4^3 + \text{-----} + Sn^3}{S1 + S2 + S3 + S4 + \text{-----} + Sn}} \qquad RS = \sqrt{\frac{140^3 + 170^3 + 365^3 + 160^3 + 303^3 + 200^3}{140 + 170 + 365 + 160 + 303 + 200}} = 268$$

RULING SPAN OR RS = 268'

A LINE WITH MANY ANGLES AND/OR DEAD-END POINTS MAY HAVE MULTIPLE RULING SPANS (ONE FOR EACH SECTION OF THE LINE BETWEEN DEAD-ENDS),

NOTE 1: THE LENGTH OF SPANS WITHIN A RULING SPAN SHOULD BE NO MORE THAN TWICE AND NO LESS THAN HALF THAT OF THE RULING SPAN. FOR EXAMPLE: FOR A 200' RULING SPAN, THE MAXIMUM LENGTH OF ANY SPAN SHOULD BE 400' AND THE MINIMUM LENGTH OF ANY SPAN SHOULD BE 100'. LONG SPANS SHOULD BE ADJACENT TO SPANS OF SIMILAR LENGTHS IF TANGENT STRUCTURES ARE BETWEEN THEM. IF THIS CANNOT BE ACCOMPLISHED, A LONG

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SPAN SHOULD BE PLACED IN ITS OWN RULING SPAN WITH FULL TENSION DEADENDS AT EACH END.

NOTE 2: TO DETERMINE WHICH RULING SPAN TABLE TO USE (i.e. 100', 200', 300' 400' ETC.), SELECT THE TABLE WITH A RULING SPAN CLOSEST TO THE ONE WHICH WAS CALCULATED WITH THE PRECEDING FORMULA. AS YOU CAN SEE, THE SPAN RANGE FOR EACH TABLE IS FROM 50% LESS THAN, TO 25% GREATER THAN THE RULING SPAN. THESE ARE THE PARAMETERS ALLOWED BY THE **NESC**. IF THE CALCULATED RULING SPAN FALLS EXACTLY BETWEEN TWO SAG AND TENSION TABLES (SUCH AS 250'), USE THE SHORTER OF THE TWO TABLES, OR IN THIS CASE, THE 200' RULING SPAN TABLE.

THE TYPE OF WIRE INDICATES THAT THE DESIGN AND INITIAL/FINAL SAG TABLE FOR 336.4 ACSR IN LIGHT LOADING AREA SHALL BE USED. THE RULING SPAN 268' DICTATES THAT THE DESIGN TABLE FOR 300' SHALL BE USED. THE SPAN LENGTH 275' ON THE INITIAL SAG TABLE SHOULD BE USED AND THE AMOUNT OF SAG SHALL BE SELECTED UNDER THE TEMPERATURE NEAREST TO THE TEMPERATURE AT THE TIME OF STRINGING.

USE OF RULING SPAN DATA

IT IS RECOMMENDED THAT ONE RULING SPAN BE CALCULATED BETWEEN THE RESPECTIVE STRINGING/PULLING SITES, REFERRED TO AS SETUP SITES. THE CONDUCTORS ARE ALWAYS STRUNG BETWEEN PRE-DEFINED SETUP SITES. THE CONDUCTORS ARE PULLED FROM THE STRINGING END TO THE PULLING END, WHICH MAY REQUIRE PULLING THROUGH MULTIPLE ANGLES AND DEADENDS. THE WIRES ARE THEN SAGGED WITH ONE SET OF SAG CHARTS. USING A RULING SPAN BASED ON THE SPANS BETWEEN THE STRINGING AND PULLING SITES. ERRORS INVOLVED IN USING A RULING SPAN WHICH DOES NOT EXACTLY FIT THE SECTION OF LINE IS NEGLIGIBLE. REFER TO NOTE 1 ABOVE FOR DEALING WITH LONG SPANS.

SUITABLE RULING SPANS WHICH MEET THE NORMAL CONDITIONS EXISTING ON SDG&E LINES HAVE ALREADY BEEN DETERMINED FOR THE SAG AND TENSION DATA GIVEN ON THE DESIGN AND INITIAL/FINAL TABLES. THUS, THE SAGS AND TENSIONS GIVEN CAN BE APPLIED DIRECTLY WITHOUT FURTHER COMPUTATION, PROVIDED THE SPAN LENGTHS ARE WITHIN THE ALLOWABLE SPAN RANGE AS DISCUSSED IN THE EXAMPLE ABOVE.

II. LOADING DISTRICTS AND WIND CONDITION PARAMETERS

THE LOADING CONDITIONS AND KNOWN LOCAL WIND CONDITIONS USED FOR DESIGNING THE SAG & TENSION TABLES CAN BE FOUND IN ELECTRIC TRANSMISSION STANDARD 12100:

SAG AND TENSION DATA GIVEN IN THE TABLES (f) ARE BASED UPON 100', 200', 300', 400' AND 500' RULING SPANS, CONDUCTOR CHARACTERISTICS, MAXIMUM TENSION, ETC., AS NOTED. SAGS AND TENSIONS HAVE BEEN COMPUTED FOR SEVERAL CONDUCTOR TEMPERATURES AND THESE SHOULD BE APPLIED AS FOLLOWS:

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- INITIAL SAG -THE SAG TABLES REPRESENT SAGS TO BE USED ON NEW CONDUCTOR THAT HAS NOT BEEN PRESTRESSED (PRE-TENSIONED) IN ANY MANNER.

- FINAL SAG -THE SAG TABLES REPRESENT SAGS WHICH WILL OCCUR AFTER THE CONDUCTOR HAS BEEN PERMANENTLY ELONGATED FOR A TEN-YEAR PERIOD OF CREEP OR AFTER LOAD.

- MAXIMUM LOADED TENSION FOR GUYING -FOR MAINTAINING PROPER GROUND CLEARANCE, THE MAXIMUM LOADED TENSION FOR GUYING INDICATED ON EACH DESIGN TABLE SHOULD BE USED TO DETERMINE THE REQUIRED STRUCTURES, GUYS, ANCHORS AND OTHER EQUIPMENT.

- UNITS -THE DESIGN TABLES ARE READ IN FEET AND DECIMALS, AND THE INITIAL AND FINAL SAG TABLES ARE READ IN FEET AND INCHES.

- WHERE CONDUCTORS OF ONE CIRCUIT ARE STRUNG UNDERNEATH DIFFERENT TYPE CONDUCTORS OF ANOTHER CIRCUIT, THE SAG CHARACTERISTICS OF THE DIFFERENT CONDUCTORS MAY RESULT IN DIFFERENT SAGS. THIS MUST BE EXAMINED TO BE CERTAIN THAT THE MINIMUM REQUIRED VERTICAL SEPARATION BETWEEN CONDUCTOR LEVELS IS MAINTAINED THROUGHOUT ALL CONDITIONS PER G.O. 95 AND SDG&E.

SPECIAL CALCULATIONS - SAGS AND TENSIONS FOR SPANS LONGER THAN THOSE COVERED SHOULD BE CALCULATED SEPARATELY. CONTACT ELECTRIC DISTRIBUTION STANDARDS SECTION FOR ASSISTANCE.

III. SAG TABLE SELECTION

IN ORDER TO CHOOSE THE SAG TABLE MOST SUITABLE FOR THE PARTICULAR JOB AT HAND, DETERMINE:

- THE LOADING DISTRICT (LIGHT, HEAVY OR EXTRA HEAVY AND KNOWN LOCAL WIND CONDITIONS) ACCORDING TO THE LINE LOCATION (SEE LOADING DISTRICTS / WIND CONDITIONS),

- THE CONDUCTOR TO BE USED. (TYPE, STRANDING, SIZE, ETC.)

- THE RULING SPAN.

- THE MAXIMUM LOAD TENSION FOR GUYING. NOTE: BEFORE DESIGNING WITH REDUCED TENSIONS (E.G. 1000 LBS. ON 300' AND 400' RULING SPANS), FIRST DETERMINE IF DESIGN PARAMETER IS PRACTICAL AND MEETS THE PIN SPACING REQUIREMENTS.

- IF INITIAL OR FINAL SAG IS REQUIRED.

IV. SAG SELECTION

- AFTER SELECTING THE PROPER SAG TABLE; USE STRAIGHT LINE INTERPOLATION OF BOTH THE SPAN AND TEMPERATURE TO OBTAIN THE SAG.

- WHERE THE SPAN LENGTHS FALL BETWEEN THE LENGTHS SHOWN ON THE SAG TABLE, INTERPOLATE BETWEEN THE LENGTHS OR USE THE NEXT LARGER LENGTH SHOWN ON THE TABLE.

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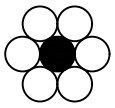
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CONDUCTOR CONFIGURATION INFORMATION

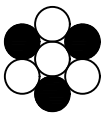
V. THE FOLLOWING IS A BRIEF DESCRIPTION OF THE THREE OVERHEAD CONDUCTOR TYPES USED IN DEVELOPING THE SAG CHARTS CONTAINED IN THIS DOCUMENT:

THERE ARE NUMEROUS CONDUCTORS CURRENTLY IN SERVICE ON SDG&E'S SYSTEM BUT ARE NO LONGER BEING INSTALLED ON NEW JOBS. (g)

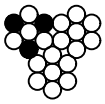
CONTACT EDE FOR ASSISTANCE IF STRINGING CHARTS ARE REQUIRED FOR ANY WIRE NOT CONTAINED IN THIS STANDARD.



A = ACSR/AW: ALUMINUM CONDUCTOR WHICH HAS BEEN STEEL REINFORCED IS ALWAYS STRANDED WITH ONE OR MORE STRANDS OF ALUMINUM CLAD STEEL WIRE IN THE CORE. ACSR/AW SMALLER THAN 636 KCMIL MAY BE INSTALLED TO WITHIN ON MILE OF THE COAST. 1033 AND 636 KCMIL ACSR/AW MAY BE INSTALLED ON THE COAST. LOADING DISTRICT APPLICATION IS DEPENDENT ON CONDUCTOR SIZE.



W = AWAC: ALUMINUM CONDUCTOR WHICH HAS BEEN STEEL REINFORCED IS ALWAYS STRANDED WITH MORE THAN ONE STRAND OF ALUMINUM CLAD STEEL WIRE. AN AWAC CONDUCTOR HAS A HIGHER ULTIMATE TENSILE STRENGTH THAN AN ACSR CONDUCTOR OF EQUIVALENT SIZE AND IS TO BE USED IN HEAVY OR EXTRA HEAVY LOADING DISTRICTS.



RTS TRIPLEX: ALUMINUM REVERSE TWIST SECONDARY (RTS) CABLE WITH AWAC BARE NEUTRAL MESSENGER. NOT TO BE INSTALLED LESS THAN ONE MILE FROM COAST. MAY BE INSTALLED IN ALL LOADING DISTRICTS BUT IS ESPECIALLY USEFUL IN HEAVY OR EXTRA HEAVY LOADING DISTRICTS BECAUSE OF HIGH ULTIMATE TENSILE STRENGTH.

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LOADING DISTRICTS / WIND CONDITIONS

VI. THE FOLLOWING IS A DESCRIPTION OF LOADING DISTRICTS AND KNOWN LOCAL WIND CONDITIONS WHICH AFFECT CONSTRUCTION OF SDG&E OVERHEAD FACILITIES ACCORDING TO THE ALTITUDE AND WIND CONDITIONS OF THE CONSTRUCTION AREA.

- LIGHT LOADING (b)
  THIS APPLIES TO ALL PARTS OF SAN DIEGO COUNTY AND PORTIONS OF ORANGE COUNTY WHERE THE ELEVATION IS BETWEEN 0-3000 FEET. (c)
- HEAVY LOADING (d)
  THIS APPLIES TO ELEVATIONS BETWEEN 3000-5000 FEET. (c)
- EXTRA HEAVY LOADING (e)
  THIS APPLIES TO ELEVATIONS ABOVE 5000 FEET. (c)
- SDG&E KNOWN LOCAL WIND LOADING (a)
  THIS APPLIES TO AREAS AFFECTED BY WINDS AT OR ABOVE 65 MILES PER HOUR.

REFERENCE:

(a) REFER TO SDG&E DRAWING NO 12100; DIRECT BURIED POLE SELECTION & LOADING CRITERIA

(b) REFER TO G.O. 95 RULE 43.2

(c) TO DETERMINE ELEVATIONS FOR THE VARIOUS LOADING DISTRICTS, SEE SAN DIEGO COUNTY TPA-MAPS.

(d) REFER TO G.O. 95 RULE 43.1

(e) SDG&E STANDARD PRACTICE

(f) REFER TO OVERHEAD CONSTRUCTION STANDARDS 806 - 824.

(g) FOR A LIST OF ALL CONDUCTORS ON SDG&E'S SYSTEM AND WHICH ONES ARE FIELD MAINTENANCE ONLY (FMO), REFER TO OVERHEAD CONSTRUCTION STANDARDS 700-718; WIRE TABLES.

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SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR #2 - 6/1 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION

850 LB TENSION ---------- 806.2

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

850 LB TENSION ---------- 806.10

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

850 LB TENSION ---------- 806.18

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

850 LB TENSION ---------- 806.26

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REFERENCE:

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.228	0.4	705	0.34	850*
25	0	0	0	0.087	0.16	679	0.13	837
30	0	0	0	0.087	0.17	642	0.13	810
40	0	0	0	0.087	0.19	567	0.14	755
50	0	0	0	0.087	0.22	493	0.16	698
60	0	0	0	0.087	0.26	421	0.17	640
70	0	0	0	0.087	0.31	350	0.19	580
80	0	0	0	0.087	0.38	283	0.21	519
90	0	0	0	0.087	0.49	224	0.24	457
100	0	0	0	0.087	0.58	189	0.28	393
110	0	0	0	0.087	0.62	175	0.33	330
120	0	0	0	0.087	0.67	161	0.4	269
130	0	0	0	0.087	0.73	149	0.51	213
167	0	0	0	0.087	0.98	111	0.92	118
212	0	0	0	0.087	1.32	82	1.24	87

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.228	1.55	736	1.34	850*
25	0	0	0	0.087	0.68	644	0.55	797
30	0	0	0	0.087	0.71	609	0.56	770
40	0	0	0	0.087	0.81	539	0.61	716
50	0	0	0	0.087	0.92	472	0.66	660
60	0	0	0	0.087	1.06	409	0.72	604
70	0	0	0	0.087	1.24	352	0.8	547
80	0	0	0	0.087	1.44	302	0.89	490
90	0	0	0	0.087	1.68	260	1	433
100	0	0	0	0.087	1.93	226	1.15	379
110	0	0	0	0.087	2.14	203	1.32	329
120	0	0	0	0.087	2.25	193	1.53	284
130	0	0	0	0.087	2.37	184	1.77	246
167	0	0	0	0.087	2.8	155	2.7	161
212	0	0	0	0.087	3.35	130	3.27	133

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.2

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.228	3.35	766	3.02	850*
25	0	0	0	0.087	1.66	590	1.33	734
30	0	0	0	0.087	1.75	559	1.38	708
40	0	0	0	0.087	1.96	499	1.49	656
50	0	0	0	0.087	2.21	444	1.62	603
60	0	0	0	0.087	2.48	395	1.78	551
70	0	0	0	0.087	2.78	352	1.96	500
80	0	0	0	0.087	3.11	315	2.17	451
90	0	0	0	0.087	3.44	285	2.41	406
100	0	0	0	0.087	3.78	259	2.69	364
110	0	0	0	0.087	4.11	238	2.99	327
120	0	0	0	0.087	4.44	221	3.31	296
130	0	0	0	0.087	4.62	212	3.64	269
167	0	0	0	0.087	5.21	188	4.85	202
212	0	0	0	0.087	5.92	166	5.85	168

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.228	5.77	791	5.37	850*
25	0	0	0	0.087	3.3	528	2.66	654
30	0	0	0	0.087	3.46	503	2.76	630
40	0	0	0	0.087	3.81	457	2.99	583
50	0	0	0	0.087	4.19	416	3.24	537
60	0	0	0	0.087	4.58	380	3.53	494
70	0	0	0	0.087	4.99	349	3.84	453
80	0	0	0	0.087	5.39	323	4.19	416
90	0	0	0	0.087	5.8	300	4.55	382
100	0	0	0	0.087	6.21	281	4.94	353
110	0	0	0	0.087	6.6	264	5.33	327
120	0	0	0	0.087	6.99	249	5.73	304
130	0	0	0	0.087	7.36	237	6.13	284
167	0	0	0	0.087	8.18	213	7.55	231
212	0	0	0	0.087	9.03	193	8.96	195

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.3

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.228	8.83	808	8.39	850*
25	0	0	0	0.087	5.76	472	4.76	572
30	0	0	0	0.087	5.99	454	4.93	552
40	0	0	0	0.087	6.46	421	5.3	514
50	0	0	0	0.087	6.93	393	5.69	478
60	0	0	0	0.087	7.4	368	6.11	446
70	0	0	0	0.087	7.87	346	6.54	416
80	0	0	0	0.087	8.34	326	6.98	390
90	0	0	0	0.087	8.8	309	7.44	366
100	0	0	0	0.087	9.25	294	7.89	345
110	0	0	0	0.087	9.69	281	8.35	326
120	0	0	0	0.087	10.13	269	8.8	309
130	0	0	0	0.087	10.55	258	9.25	294
167	0	0	0	0.087	11.71	233	10.83	252
212	0	0	0	0.087	12.69	215	12.59	216

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.4

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4
125.00	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6
150.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-9
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0
200.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-4

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-3	0-3	0-4	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-7
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-0
150.00	0-4	0-5	0-5	0-6	0-7	0-8	0-10	1-1	1-4	1-5
175.00	0-6	0-6	0-7	0-8	0-10	0-11	1-2	1-6	1-9	1-11
200.00	0-7	0-8	0-9	0-11	1-0	1-3	1-6	1-11	2-4	2-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.5

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4
125.00	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
150.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
175.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-0
200.00	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4
225.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-8
250.00	0-10	0-11	0-11	1-0	1-2	1-3	1-5	1-7	1-10	2-1

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-6
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10
150.00	0-4	0-5	0-5	0-6	0-7	0-8	0-10	0-11	1-1	1-2
175.00	0-6	0-7	0-7	0-8	0-10	0-11	1-1	1-3	1-6	1-8
200.00	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-8	1-11	2-2
225.00	0-10	0-11	1-0	1-2	1-4	1-7	1-10	2-1	2-5	2-9
250.00	1-0	1-1	1-3	1-5	1-8	1-11	2-3	2-7	3-0	3-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.6

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9
175.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
200.00	0-7	0-7	0-8	0-9	0-9	0-10	1-0	1-1	1-2	1-4
225.00	0-9	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-8
250.00	0-11	1-0	1-0	1-2	1-3	1-4	1-6	1-8	1-10	2-1
275.00	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-3	2-6
300.00	1-3	1-5	1-6	1-7	1-9	1-11	2-2	2-5	2-8	3-0
325.00	1-6	1-7	1-9	1-11	2-1	2-4	2-7	2-10	3-2	3-6
350.00	1-9	1-11	2-0	2-3	2-5	2-8	2-11	3-3	3-8	4-1
375.00	2-0	2-2	2-4	2-6	2-9	3-1	3-5	3-9	4-2	4-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-3	1-5
200.00	0-8	0-9	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-10
225.00	0-11	1-0	1-1	1-3	1-5	1-7	1-9	1-11	2-1	2-4
250.00	1-1	1-3	1-4	1-6	1-9	1-11	2-2	2-5	2-7	2-10
275.00	1-4	1-6	1-8	1-10	2-1	2-4	2-7	2-11	3-2	3-5
300.00	1-7	1-9	2-0	2-2	2-6	2-9	3-1	3-5	3-9	4-1
325.00	1-10	2-1	2-4	2-7	2-11	3-3	3-8	4-0	4-5	4-10
350.00	2-2	2-5	2-8	3-0	3-5	3-9	4-3	4-8	5-2	5-7
375.00	2-5	2-9	3-1	3-5	3-11	4-4	4-10	5-5	5-11	6-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.7

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
225.00	0-10	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-8
250.00	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-1
275.00	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-6
300.00	1-5	1-7	1-8	1-10	2-0	2-2	2-4	2-7	2-9	3-0
325.00	1-8	1-10	2-0	2-2	2-4	2-6	2-9	3-0	3-3	3-6
350.00	2-0	2-1	2-3	2-6	2-8	2-11	3-2	3-6	3-9	4-1
375.00	2-3	2-5	2-7	2-10	3-1	3-5	3-8	4-0	4-4	4-8
400.00	2-7	2-9	3-0	3-3	3-6	3-10	4-2	4-7	4-11	5-4
425.00	2-11	3-1	3-4	3-8	4-0	4-4	4-9	5-2	5-7	6-0
450.00	3-3	3-6	3-9	4-1	4-6	4-10	5-4	5-9	6-3	6-9
475.00	3-7	3-11	4-3	4-7	5-0	5-5	5-11	6-5	7-0	7-6
500.00	4-0	4-4	4-8	5-1	5-6	6-0	6-7	7-1	7-9	8-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-9	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-7	1-8
225.00	1-0	1-1	1-2	1-4	1-5	1-7	1-8	1-10	2-0	2-1
250.00	1-3	1-4	1-6	1-8	1-9	1-11	2-1	2-3	2-5	2-7
275.00	1-6	1-8	1-10	2-0	2-2	2-4	2-7	2-9	2-11	3-1
300.00	1-9	1-11	2-2	2-4	2-7	2-10	3-0	3-3	3-6	3-9
325.00	2-1	2-3	2-6	2-9	3-0	3-3	3-7	3-10	4-1	4-4
350.00	2-5	2-8	2-11	3-2	3-6	3-10	4-2	4-5	4-9	5-1
375.00	2-9	3-1	3-4	3-8	4-0	4-5	4-9	5-1	5-5	5-10
400.00	3-2	3-6	3-10	4-2	4-7	5-0	5-5	5-10	6-2	6-7
425.00	3-7	3-11	4-4	4-9	5-2	5-8	6-1	6-7	7-0	7-5
450.00	4-0	4-5	4-10	5-4	5-10	6-4	6-10	7-4	7-10	8-4
475.00	4-5	4-11	5-5	5-11	6-6	7-0	7-7	8-2	8-9	9-4
500.00	4-11	5-5	5-11	6-7	7-2	7-9	8-5	9-1	9-8	10-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.8

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-10	2-0	2-1
275.00	1-5	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-5	2-6
300.00	1-8	1-9	1-11	2-1	2-2	2-4	2-6	2-8	2-10	3-0
325.00	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-2	3-4	3-6
350.00	2-3	2-5	2-7	2-9	3-0	3-2	3-5	3-8	3-10	4-1
375.00	2-7	2-9	3-0	3-2	3-5	3-8	3-11	4-2	4-5	4-8
400.00	2-11	3-2	3-5	3-8	3-11	4-2	4-6	4-9	5-1	5-4
425.00	3-4	3-7	3-10	4-1	4-5	4-9	5-1	5-4	5-8	6-0
450.00	3-9	4-0	4-3	4-7	4-11	5-4	5-8	6-0	6-5	6-9
475.00	4-2	4-5	4-9	5-2	5-6	5-11	6-4	6-9	7-1	7-6
500.00	4-7	4-11	5-4	5-8	6-1	6-6	7-0	7-5	7-11	8-4
525.00	5-1	5-5	5-10	6-3	6-9	7-3	7-8	8-2	8-8	9-2
550.00	5-7	6-0	6-5	6-11	7-5	7-11	8-5	9-0	9-7	10-1
575.00	6-1	6-6	7-0	7-6	8-1	8-8	9-3	9-10	10-5	11-1
600.00	6-7	7-1	7-8	8-2	8-10	9-5	10-1	10-9	11-4	12-0
625.00	7-2	7-8	8-3	8-11	9-6	10-3	10-11	11-7	12-4	13-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-5	1-6	1-7	1-9	1-10	2-0	2-1	2-2	2-4	2-5
275.00	1-8	1-10	1-11	2-1	2-3	2-5	2-6	2-8	2-10	2-11
300.00	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6
325.00	2-4	2-6	2-9	2-11	3-2	3-4	3-6	3-9	3-11	4-1
350.00	2-9	2-11	3-2	3-5	3-8	3-10	4-1	4-4	4-6	4-9
375.00	3-1	3-4	3-8	3-11	4-2	4-5	4-8	4-11	5-2	5-5
400.00	3-7	3-10	4-2	4-5	4-9	5-0	5-4	5-8	5-11	6-2
425.00	4-0	4-4	4-8	5-0	5-4	5-8	6-0	6-4	6-8	7-0
450.00	4-6	4-10	5-3	5-7	6-0	6-5	6-9	7-2	7-6	7-10
475.00	5-0	5-5	5-10	6-3	6-8	7-1	7-6	7-11	8-4	8-9
500.00	5-6	6-0	6-5	6-11	7-5	7-10	8-4	8-10	9-3	9-8
525.00	6-1	6-7	7-1	7-8	8-2	8-8	9-2	9-8	10-2	10-8
550.00	6-8	7-3	7-10	8-5	8-11	9-6	10-1	10-8	11-2	11-9
575.00	7-4	7-11	8-6	9-2	9-9	10-5	11-0	11-8	12-3	12-10
600.00	8-0	8-8	9-4	10-0	10-8	11-4	12-0	12-8	13-4	14-0
625.00	8-8	9-4	10-1	10-10	11-7	12-4	13-0	13-9	14-6	15-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.9

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.297	0.59	631	0.44	850*
20	0	0	0	0.087	0.14	798	0.11	982
30	0	0	0	0.087	0.15	722	0.12	931
40	0	0	0	0.087	0.17	647	0.12	879
50	0	0	0	0.087	0.19	573	0.13	825
60	0	0	0	0.087	0.22	499	0.14	770
70	0	0	0	0.087	0.26	426	0.15	713
80	0	0	0	0.087	0.31	355	0.17	654
90	0	0	0	0.087	0.38	288	0.18	594
100	0	0	0	0.087	0.46	237	0.2	532
110	0	0	0	0.087	0.49	221	0.23	469
120	0	0	0	0.087	0.53	205	0.27	405
130	0	0	0	0.087	0.57	191	0.32	340
167	0	0	0	0.087	0.77	142	0.72	150
212	0	0	0	0.087	1.09	100	1.01	108

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.297	2.11	705	1.75	850*
20	0	0	0	0.087	0.59	741	0.48	910
30	0	0	0	0.087	0.65	669	0.51	859
40	0	0	0	0.087	0.73	598	0.54	806
50	0	0	0	0.087	0.82	529	0.58	752
60	0	0	0	0.087	0.94	462	0.62	696
70	0	0	0	0.087	1.09	400	0.68	640
80	0	0	0	0.087	1.27	344	0.75	582
90	0	0	0	0.087	1.48	295	0.83	524
100	0	0	0	0.087	1.71	254	0.93	467
110	0	0	0	0.087	1.91	228	1.06	411
120	0	0	0	0.087	2.01	217	1.22	357
130	0	0	0	0.087	2.11	206	1.41	309
167	0	0	0	0.087	2.53	172	2.31	188
212	0	0	0	0.087	3.07	142	2.99	146

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.10

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.297	4.36	767	3.94	850*
20	0	0	0	0.087	1.51	646	1.23	793
30	0	0	0	0.087	1.68	582	1.32	741
40	0	0	0	0.087	1.88	520	1.42	689
50	0	0	0	0.087	2.11	463	1.54	636
60	0	0	0	0.087	2.38	412	1.68	583
70	0	0	0	0.087	2.67	367	1.84	531
80	0	0	0	0.087	2.99	328	2.04	481
90	0	0	0	0.087	3.32	295	2.26	433
100	0	0	0	0.087	3.65	268	2.52	389
110	0	0	0	0.087	3.99	245	2.81	349
120	0	0	0	0.087	4.32	227	3.12	314
130	0	0	0	0.087	4.49	218	3.44	285
167	0	0	0	0.087	5.07	193	4.66	210
212	0	0	0	0.087	5.78	170	5.71	172

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.297	7.38	807	7.01	850*
20	0	0	0	0.087	3.31	526	2.72	640
30	0	0	0	0.087	3.65	477	2.94	593
40	0	0	0	0.087	4.01	434	3.18	547
50	0	0	0	0.087	4.4	396	3.46	503
60	0	0	0	0.087	4.8	363	3.77	462
70	0	0	0	0.087	5.2	335	4.11	424
80	0	0	0	0.087	5.61	310	4.47	390
90	0	0	0	0.087	6.02	289	4.85	359
100	0	0	0	0.087	6.42	271	5.24	332
110	0	0	0	0.087	6.81	256	5.64	309
120	0	0	0	0.087	7.19	242	6.03	289
130	0	0	0	0.087	7.56	230	6.43	271
167	0	0	0	0.087	8.39	208	7.82	223
212	0	0	0	0.087	9.24	189	9.17	190

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.11

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.297	11.23	829	10.96	850*
20	0	0	0	0.087	6.44	422	5.52	493
30	0	0	0	0.087	6.91	393	5.93	459
40	0	0	0	0.087	7.39	368	6.35	429
50	0	0	0	0.087	7.86	346	6.79	401
60	0	0	0	0.087	8.33	327	7.23	376
70	0	0	0	0.087	8.79	310	7.69	354
80	0	0	0	0.087	9.24	295	8.14	334
90	0	0	0	0.087	9.68	281	8.59	317
100	0	0	0	0.087	10.12	269	9.04	301
110	0	0	0	0.087	10.54	258	9.48	287
120	0	0	0	0.087	10.95	249	9.91	275
130	0	0	0	0.087	11.35	240	10.33	264
167	0	0	0	0.087	12.53	218	11.83	230
212	0	0	0	0.087	13.48	202	13.42	203

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.12

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3
125.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-6	0-6
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9
200.00	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-3	0-3	0-3
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-9
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10	1-0	1-1
175.00	0-5	0-6	0-6	0-7	0-8	0-9	0-11	1-2	1-5	1-6
200.00	0-7	0-7	0-8	0-9	0-10	1-0	1-3	1-6	1-10	2-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.13

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
150.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
200.00	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1
225.00	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-1	1-2	1-4
250.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9
150.00	0-4	0-4	0-5	0-6	0-6	0-7	0-9	0-10	1-0	1-1
175.00	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-4	1-6
200.00	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-6	1-9	1-11
225.00	0-9	0-10	0-11	1-0	1-2	1-5	1-7	1-10	2-2	2-5
250.00	0-11	1-0	1-2	1-3	1-6	1-8	2-0	2-4	2-8	3-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.14

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-8
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-3
225.00	0-8	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-5	1-7
250.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	1-11
275.00	1-0	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2-4
300.00	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-3	2-6	2-10
325.00	1-5	1-7	1-8	1-10	2-0	2-2	2-5	2-8	2-11	3-4
350.00	1-8	1-10	1-11	2-1	2-3	2-6	2-9	3-1	3-5	3-10
375.00	1-11	2-1	2-3	2-5	2-7	2-11	3-2	3-6	3-11	4-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4
200.00	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-7	1-9
225.00	0-10	0-11	1-1	1-2	1-4	1-6	1-8	1-10	2-1	2-3
250.00	1-1	1-2	1-4	1-6	1-8	1-10	2-1	2-4	2-6	2-9
275.00	1-3	1-5	1-7	1-9	2-0	2-3	2-6	2-9	3-1	3-4
300.00	1-6	1-8	1-11	2-1	2-5	2-8	3-0	3-4	3-8	4-0
325.00	1-9	2-0	2-3	2-6	2-9	3-2	3-6	3-11	4-3	4-8
350.00	2-1	2-3	2-7	2-11	3-3	3-8	4-1	4-6	5-0	5-5
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.15

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-3	1-4	1-5
225.00	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-9
250.00	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-2
275.00	1-3	1-5	1-6	1-8	1-9	1-11	2-1	2-3	2-6	2-8
300.00	1-6	1-8	1-9	1-11	2-1	2-4	2-6	2-9	2-11	3-2
325.00	1-10	1-11	2-1	2-3	2-6	2-9	2-11	3-2	3-6	3-9
350.00	2-1	2-3	2-5	2-8	2-11	3-2	3-5	3-9	4-0	4-4
375.00	2-5	2-7	2-10	3-1	3-4	3-7	3-11	4-3	4-7	4-11
400.00	2-9	2-11	3-2	3-6	3-9	4-1	4-6	4-10	5-3	5-8
425.00	3-1	3-4	3-7	3-11	4-3	4-8	5-1	5-6	5-11	6-4
450.00	3-5	3-9	4-0	4-5	4-9	5-2	5-8	6-2	6-8	7-2
475.00	3-10	4-2	4-6	4-11	5-4	5-10	6-4	6-10	7-5	7-11
500.00	4-3	4-7	5-0	5-5	5-11	6-5	7-0	7-7	8-2	8-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-7	1-8
225.00	1-1	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-2
250.00	1-4	1-5	1-7	1-9	1-10	2-0	2-2	2-4	2-6	2-8
275.00	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-10	3-0	3-3
300.00	1-10	2-1	2-3	2-6	2-8	2-11	3-2	3-5	3-7	3-10
325.00	2-2	2-5	2-8	2-11	3-2	3-5	3-8	4-0	4-3	4-6
350.00	2-6	2-9	3-1	3-4	3-8	4-0	4-4	4-7	4-11	5-3
375.00	2-11	3-2	3-6	3-10	4-3	4-7	4-11	5-3	5-8	6-0
400.00	3-4	3-8	4-0	4-5	4-10	5-2	5-7	6-0	6-5	6-10
425.00	3-9	4-1	4-6	5-0	5-5	5-10	6-4	6-10	7-3	7-8
450.00	4-2	4-7	5-1	5-7	6-1	6-7	7-1	7-7	8-1	8-7
475.00	4-8	5-2	5-8	6-2	6-9	7-4	7-11	8-6	9-1	9-7
500.00	5-2	5-8	6-3	6-10	7-6	8-2	8-9	9-5	10-0	10-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.16

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-5	1-6	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-4
275.00	1-8	1-10	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-10
300.00	2-0	2-2	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5
325.00	2-4	2-6	2-8	2-10	3-1	3-3	3-5	3-8	3-10	4-0
350.00	2-8	2-11	3-1	3-4	3-7	3-9	4-0	4-2	4-5	4-8
375.00	3-1	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-1	5-4
400.00	3-6	3-10	4-1	4-4	4-8	4-11	5-2	5-6	5-9	6-1
425.00	4-0	4-3	4-7	4-11	5-3	5-7	5-11	6-2	6-6	6-10
450.00	4-6	4-10	5-2	5-6	5-10	6-3	6-7	6-11	7-4	7-8
475.00	5-0	5-4	5-9	6-1	6-6	6-11	7-4	7-9	8-2	8-7
500.00	5-6	5-11	6-4	6-9	7-3	7-8	8-2	8-7	9-0	9-6
525.00	6-1	6-6	7-0	7-6	8-0	8-6	9-0	9-6	10-0	10-5
550.00	6-8	7-2	7-8	8-3	8-9	9-4	9-10	10-5	10-11	11-6
575.00	7-4	7-10	8-5	9-0	9-7	10-2	10-9	11-4	11-11	12-6
600.00	7-11	8-6	9-2	9-9	10-5	11-1	11-9	12-4	13-0	13-8
625.00	8-8	9-3	9-11	10-7	11-4	12-0	12-9	13-5	14-1	14-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-7	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-8
275.00	1-11	2-1	2-3	2-5	2-6	2-8	2-10	2-11	3-1	3-2
300.00	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10
325.00	2-9	2-11	3-1	3-4	3-6	3-9	3-11	4-1	4-3	4-5
350.00	3-2	3-5	3-7	3-10	4-1	4-4	4-6	4-9	4-11	5-2
375.00	3-7	3-11	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-11
400.00	4-1	4-5	4-9	5-0	5-4	5-7	5-11	6-2	6-6	6-9
425.00	4-8	5-0	5-4	5-8	6-0	6-4	6-8	7-0	7-4	7-7
450.00	5-3	5-7	6-0	6-4	6-9	7-1	7-6	7-10	8-2	8-6
475.00	5-10	6-3	6-8	7-1	7-6	7-11	8-4	8-9	9-2	9-6
500.00	6-5	6-11	7-5	7-10	8-4	8-9	9-3	9-8	10-1	10-6
525.00	7-1	7-7	8-2	8-8	9-2	9-8	10-2	10-8	11-2	11-7
550.00	7-10	8-4	8-11	9-6	10-1	10-8	11-2	11-9	12-3	12-9
575.00	8-6	9-2	9-9	10-5	11-0	11-8	12-3	12-10	13-5	13-11
600.00	9-3	9-11	10-8	11-4	12-0	12-8	13-4	13-11	14-7	15-2
625.00	10-1	10-10	11-7	12-3	13-0	13-9	14-5	15-2	15-10	16-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.17

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.495	0.9	687	0.73	850*
20	0	0	0	0.087	0.14	767	0.12	936
30	0	0	0	0.087	0.16	691	0.12	885
40	0	0	0	0.087	0.18	616	0.13	832
50	0	0	0	0.087	0.2	542	0.14	777
60	0	0	0	0.087	0.23	468	0.15	720
70	0	0	0	0.087	0.27	396	0.16	662
80	0	0	0	0.087	0.33	327	0.18	602
90	0	0	0	0.087	0.41	262	0.2	541
100	0	0	0	0.087	0.5	218	0.23	478
110	0	0	0	0.087	0.54	203	0.26	415
120	0	0	0	0.087	0.58	188	0.31	351
130	0	0	0	0.087	0.63	174	0.38	288
167	0	0	0	0.087	0.85	129	0.8	137
212	0	0	0	0.087	1.18	92	1.1	99

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.495	3.08	803	2.91	850*
20	0	0	0	0.087	0.71	610	0.6	724
30	0	0	0	0.087	0.81	540	0.65	670
40	0	0	0	0.087	0.92	473	0.71	614
50	0	0	0	0.087	1.06	410	0.78	558
60	0	0	0	0.087	1.23	353	0.87	501
70	0	0	0	0.087	1.44	302	0.98	445
80	0	0	0	0.087	1.67	260	1.11	391
90	0	0	0	0.087	1.92	226	1.28	340
100	0	0	0	0.087	2.18	200	1.48	294
110	0	0	0	0.087	2.43	179	1.71	255
120	0	0	0	0.087	2.55	171	1.95	223
130	0	0	0	0.087	2.67	163	2.21	197
167	0	0	0	0.087	3.12	140	3.05	143
212	0	0	0	0.087	3.66	119	3.57	122

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.18

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.495	6.56	850	6.56	850*
20	0	0	0	0.087	2.82	347	2.42	405
30	0	0	0	0.087	3.15	311	2.68	365
40	0	0	0	0.087	3.48	281	2.97	329
50	0	0	0	0.087	3.82	256	3.29	298
60	0	0	0	0.087	4.15	236	3.61	271
70	0	0	0	0.087	4.48	219	3.94	249
80	0	0	0	0.087	4.8	204	4.26	230
90	0	0	0	0.087	5.11	192	4.59	214
100	0	0	0	0.087	5.41	181	4.9	200
110	0	0	0	0.087	5.7	172	5.21	188
120	0	0	0	0.087	5.98	164	5.51	178
130	0	0	0	0.087	6.25	157	5.79	169
167	0	0	0	0.087	6.8	144	6.73	146
212	0	0	0	0.087	7.45	132	7.38	133

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.495	11.68	850	11.68	850*
20	0	0	0	0.087	7.95	219	7.32	238
30	0	0	0	0.087	8.3	210	7.69	227
40	0	0	0	0.087	8.64	202	8.05	217
50	0	0	0	0.087	8.97	194	8.39	208
60	0	0	0	0.087	9.3	188	8.73	200
70	0	0	0	0.087	9.61	181	9.07	192
80	0	0	0	0.087	9.92	176	9.39	186
90	0	0	0	0.087	10.22	171	9.7	180
100	0	0	0	0.087	10.52	166	10.01	174
110	0	0	0	0.087	10.8	162	10.32	169
120	0	0	0	0.087	11.09	157	10.61	164
130	0	0	0	0.087	11.34	154	10.9	160
167	0	0	0	0.087	11.95	146	11.87	147
212	0	0	0	0.087	12.66	138	12.58	139

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.19

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.495	18.29	850	18.29	850*
20	0	0	0	0.087	14.67	186	14.08	194
30	0	0	0	0.087	15	182	14.42	189
40	0	0	0	0.087	15.32	178	14.75	185
50	0	0	0	0.087	15.63	175	15.07	181
60	0	0	0	0.087	15.94	171	15.4	177
70	0	0	0	0.087	16.24	168	15.71	174
80	0	0	0	0.087	16.54	165	16.02	170
90	0	0	0	0.087	16.83	162	16.33	167
100	0	0	0	0.087	17.12	160	16.63	164
110	0	0	0	0.087	17.41	157	16.92	161
120	0	0	0	0.087	17.69	154	17.21	159
130	0	0	0	0.087	17.93	152	17.5	156
167	0	0	0	0.087	18.57	147	18.49	148
212	0	0	0	0.087	19.32	142	19.24	142

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5
150.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-10
200.00	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-9	0-10
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-1	1-2
175.00	0-5	0-6	0-6	0-7	0-9	0-10	1-0	1-3	1-6	1-8
200.00	0-7	0-8	0-8	0-10	0-11	1-1	1-4	1-8	2-0	2-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.21

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0
175.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-2	1-4
200.00	0-7	0-8	0-9	0-9	0-10	1-0	1-1	1-3	1-6	1-8
225.00	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-2
250.00	0-11	1-0	1-1	1-3	1-4	1-6	1-9	2-0	2-4	2-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-7
125.00	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11
150.00	0-5	0-5	0-6	0-7	0-8	0-10	0-11	1-1	1-3	1-4
175.00	0-7	0-7	0-8	0-10	0-11	1-1	1-3	1-6	1-8	1-10
200.00	0-9	0-10	0-11	1-1	1-3	1-5	1-8	1-11	2-2	2-5
225.00	0-11	1-0	1-2	1-4	1-7	1-10	2-1	2-5	2-9	3-1
250.00	1-1	1-3	1-5	1-8	1-11	2-3	2-7	3-0	3-5	3-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.22

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
175.00	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-8	1-9
200.00	1-1	1-2	1-4	1-6	1-7	1-9	1-11	2-0	2-2	2-4
225.00	1-4	1-6	1-8	1-10	2-0	2-3	2-5	2-7	2-9	2-11
250.00	1-8	1-10	2-1	2-3	2-6	2-9	3-0	3-2	3-5	3-7
275.00	2-0	2-3	2-6	2-9	3-0	3-4	3-7	3-10	4-1	4-5
300.00	2-5	2-8	3-0	3-3	3-7	3-11	4-3	4-7	4-11	5-2
325.00	2-10	3-2	3-6	3-10	4-3	4-7	5-0	5-5	5-9	6-1
350.00	3-3	3-8	4-1	4-6	4-11	5-4	5-10	6-3	6-8	7-1
375.00	3-9	4-2	4-8	5-2	5-8	6-2	6-8	7-2	7-8	8-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
175.00	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-9	1-10	1-11
200.00	1-3	1-5	1-7	1-8	1-10	2-0	2-2	2-3	2-5	2-6
225.00	1-7	1-9	1-11	2-2	2-4	2-6	2-8	2-10	3-0	3-2
250.00	2-0	2-2	2-5	2-8	2-11	3-1	3-4	3-7	3-9	3-11
275.00	2-4	2-8	2-11	3-3	3-6	3-9	4-0	4-4	4-7	4-9
300.00	2-10	3-2	3-6	3-10	4-2	4-6	4-10	5-1	5-5	5-8
325.00	3-4	3-8	4-1	4-6	4-10	5-3	5-8	6-0	6-4	6-8
350.00	3-10	4-3	4-9	5-2	5-8	6-1	6-6	6-11	7-4	7-9
375.00	4-5	4-11	5-5	6-0	6-6	7-0	7-6	8-0	8-5	8-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.23

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
225.00	2-4	2-5	2-7	2-8	2-9	2-10	3-0	3-1	3-2	3-3
250.00	2-10	3-0	3-2	3-3	3-5	3-6	3-8	3-9	3-11	4-0
275.00	3-6	3-8	3-10	4-0	4-2	4-3	4-5	4-7	4-9	4-10
300.00	4-1	4-4	4-6	4-9	4-11	5-1	5-3	5-5	5-8	5-10
325.00	4-10	5-1	5-4	5-6	5-9	6-0	6-2	6-5	6-7	6-10
350.00	5-7	5-11	6-2	6-5	6-8	6-11	7-2	7-5	7-8	7-11
375.00	6-5	6-9	7-1	7-5	7-8	8-0	8-3	8-6	8-10	9-1
400.00	7-4	7-8	8-1	8-5	8-9	9-1	9-5	9-8	10-0	10-4
425.00	8-3	8-8	9-1	9-6	9-10	10-3	10-7	10-11	11-4	11-8
450.00	9-3	9-9	10-2	10-7	11-1	11-6	11-11	12-3	12-8	13-1
475.00	10-4	10-10	11-4	11-10	12-4	12-9	13-3	13-8	14-2	14-7
500.00	11-5	12-0	12-7	13-1	13-8	14-2	14-8	15-2	15-8	16-2

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8
225.00	2-6	2-7	2-9	2-10	2-11	3-0	3-2	3-3	3-4	3-5
250.00	3-1	3-3	3-4	3-6	3-8	3-9	3-10	4-0	4-1	4-3
275.00	3-9	3-11	4-1	4-3	4-5	4-6	4-8	4-10	5-0	5-1
300.00	4-6	4-8	4-10	5-1	5-3	5-5	5-7	5-9	5-11	6-1
325.00	5-3	5-6	5-8	5-11	6-2	6-4	6-7	6-9	6-11	7-2
350.00	6-1	6-4	6-7	6-10	7-1	7-4	7-7	7-10	8-1	8-3
375.00	7-0	7-3	7-7	7-11	8-2	8-5	8-9	9-0	9-3	9-6
400.00	7-11	8-4	8-8	9-0	9-4	9-7	9-11	10-3	10-6	10-10
425.00	9-0	9-4	9-9	10-2	10-6	10-10	11-2	11-6	11-10	12-2
450.00	10-1	10-6	10-11	11-4	11-9	12-2	12-7	12-11	13-4	13-8
475.00	11-2	11-8	12-2	12-8	13-1	13-7	14-0	14-5	14-10	15-3
500.00	12-5	13-0	13-6	14-0	14-6	15-0	15-6	16-0	16-5	16-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.24

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3
275.00	4-3	4-4	4-5	4-7	4-8	4-9	4-10	4-11	5-0	5-1
300.00	5-1	5-2	5-4	5-5	5-6	5-8	5-9	5-10	6-0	6-1
325.00	5-11	6-1	6-3	6-4	6-6	6-8	6-9	6-11	7-0	7-2
350.00	6-11	7-1	7-3	7-5	7-6	7-8	7-10	8-0	8-2	8-3
375.00	7-11	8-1	8-4	8-6	8-8	8-10	9-0	9-2	9-4	9-6
400.00	9-0	9-3	9-5	9-8	9-10	10-1	10-3	10-5	10-8	10-10
425.00	10-2	10-5	10-8	10-11	11-1	11-4	11-7	11-9	12-0	12-3
450.00	11-5	11-8	11-11	12-2	12-6	12-9	13-0	13-3	13-6	13-8
475.00	12-8	13-0	13-4	13-7	13-11	14-2	14-5	14-9	15-0	15-3
500.00	14-1	14-5	14-9	15-1	15-5	15-9	16-0	16-4	16-8	16-11
525.00	15-6	15-11	16-3	16-7	17-0	17-4	17-8	18-0	18-4	18-8
550.00	17-0	17-5	17-10	18-3	18-8	19-0	19-5	19-9	20-1	20-6
575.00	18-7	19-1	19-6	19-11	20-4	20-9	21-2	21-7	22-0	22-5
600.00	20-3	20-9	21-3	21-9	22-2	22-8	23-1	23-6	23-11	24-5
625.00	22-0	22-6	23-1	23-7	24-1	24-7	25-1	25-6	26-0	26-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-2	4-3	4-4
275.00	4-5	4-6	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3
300.00	5-3	5-5	5-6	5-7	5-9	5-10	5-11	6-1	6-2	6-3
325.00	6-2	6-4	6-6	6-7	6-9	6-10	7-0	7-1	7-3	7-4
350.00	7-2	7-4	7-6	7-8	7-10	7-11	8-1	8-3	8-5	8-6
375.00	8-3	8-5	8-7	8-9	9-0	9-2	9-4	9-6	9-7	9-9
400.00	9-5	9-7	9-10	10-0	10-2	10-5	10-7	10-9	10-11	11-2
425.00	10-7	10-10	11-1	11-3	11-6	11-9	11-11	12-2	12-4	12-7
450.00	11-11	12-2	12-5	12-8	12-11	13-2	13-5	13-8	13-10	14-1
475.00	13-3	13-6	13-10	14-1	14-5	14-8	14-11	15-2	15-5	15-8
500.00	14-8	15-0	15-4	15-8	15-11	16-3	16-6	16-10	17-1	17-5
525.00	16-2	16-6	16-11	17-3	17-7	17-11	18-3	18-7	18-11	19-2
550.00	17-9	18-2	18-6	18-11	19-3	19-8	20-0	20-4	20-9	21-1
575.00	19-5	19-10	20-3	20-8	21-1	21-6	21-11	22-3	22-8	23-0
600.00	21-2	21-7	22-1	22-6	23-0	23-5	23-10	24-3	24-8	25-1
625.00	22-11	23-5	23-11	24-5	24-11	25-5	25-10	26-4	26-9	27-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.25

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	0.834	1.34	779	1.23	850*
20	0	0	0	0.087	0.16	676	0.14	802
30	0	0	0	0.087	0.18	601	0.15	747
40	0	0	0	0.087	0.21	527	0.16	691
50	0	0	0	0.087	0.24	453	0.17	633
60	0	0	0	0.087	0.28	382	0.19	574
70	0	0	0	0.087	0.35	313	0.21	513
80	0	0	0	0.087	0.44	250	0.24	451
90	0	0	0	0.087	0.56	196	0.28	388
100	0	0	0	0.087	0.65	167	0.33	325
110	0	0	0	0.087	0.71	154	0.41	265
120	0	0	0	0.087	0.77	142	0.52	210
130	0	0	0	0.087	0.83	131	0.66	166
167	0	0	0	0.087	1.1	99	1.04	105
212	0	0	0	0.087	1.44	76	1.36	80

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	0.834	4.92	850	4.92	850*
20	0	0	0	0.087	2.29	190	1.85	235
30	0	0	0	0.087	2.54	171	2.1	207
40	0	0	0	0.087	2.79	156	2.35	185
50	0	0	0	0.087	3.02	144	2.6	168
60	0	0	0	0.087	3.25	134	2.84	153
70	0	0	0	0.087	3.46	126	3.07	142
80	0	0	0	0.087	3.67	119	3.3	132
90	0	0	0	0.087	3.87	113	3.51	124
100	0	0	0	0.087	4.03	108	3.72	117
110	0	0	0	0.087	4.14	105	3.92	111
120	0	0	0	0.087	4.25	103	4.11	106
130	0	0	0	0.087	4.35	100	4.27	102
167	0	0	0	0.087	4.74	92	4.66	94
212	0	0	0	0.087	5.18	84	5.1	86

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.26

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	0.834	11.1	850	11.1	850*
20	0	0	0	0.087	8.76	112	8.37	117
30	0	0	0	0.087	8.96	110	8.58	114
40	0	0	0	0.087	9.15	107	8.79	112
50	0	0	0	0.087	9.35	105	8.99	109
60	0	0	0	0.087	9.53	103	9.19	107
70	0	0	0	0.087	9.72	101	9.38	105
80	0	0	0	0.087	9.9	99	9.58	103
90	0	0	0	0.087	10.07	98	9.76	101
100	0	0	0	0.087	10.18	97	9.95	99
110	0	0	0	0.087	10.29	96	10.13	97
120	0	0	0	0.087	10.4	95	10.31	95
130	0	0	0	0.087	10.51	94	10.42	94
167	0	0	0	0.087	10.91	90	10.82	91
212	0	0	0	0.087	11.38	86	11.29	87

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	0.834	19.82	850	19.82	850*
20	0	0	0	0.087	17.57	100	17.21	102
30	0	0	0	0.087	17.75	99	17.4	101
40	0	0	0	0.087	17.93	98	17.59	100
50	0	0	0	0.087	18.11	97	17.78	99
60	0	0	0	0.087	18.29	96	17.96	98
70	0	0	0	0.087	18.46	95	18.15	97
80	0	0	0	0.087	18.64	94	18.33	96
90	0	0	0	0.087	18.78	93	18.51	95
100	0	0	0	0.087	18.89	93	18.68	94
110	0	0	0	0.087	19	92	18.86	93
120	0	0	0	0.087	19.11	92	19.02	92
130	0	0	0	0.087	19.22	91	19.13	92
167	0	0	0	0.087	19.63	90	19.53	90
212	0	0	0	0.087	20.11	87	20.02	88

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.27

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	0.834	31.14	850	31.14	850*
20	0	0	0	0.087	28.93	95	28.59	96
30	0	0	0	0.087	29.11	95	28.77	96
40	0	0	0	0.087	29.28	94	28.95	95
50	0	0	0	0.087	29.46	94	29.13	95
60	0	0	0	0.087	29.63	93	29.31	94
70	0	0	0	0.087	29.8	93	29.49	93
80	0	0	0	0.087	29.97	92	29.66	93
90	0	0	0	0.087	30.1	92	29.84	92
100	0	0	0	0.087	30.21	91	30.01	92
110	0	0	0	0.087	30.32	91	30.19	91
120	0	0	0	0.087	30.43	91	30.34	91
130	0	0	0	0.087	30.54	90	30.45	91
167	0	0	0	0.087	30.95	89	30.85	89
212	0	0	0	0.087	31.43	88	31.34	88

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.28

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-8
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-11
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-3
200.00	0-7	0-7	0-8	0-8	0-9	0-10	1-0	1-1	1-4	1-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-4	0-5
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-7	0-8	0-8
125.00	0-3	0-3	0-4	0-4	0-5	0-7	0-8	0-10	1-0	1-1
150.00	0-4	0-5	0-6	0-6	0-8	0-9	1-0	1-3	1-6	1-7
175.00	0-6	0-7	0-8	0-9	0-10	1-1	1-4	1-8	2-0	2-2
200.00	0-8	0-9	0-10	1-0	1-2	1-5	1-9	2-3	2-7	2-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.29

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0
125.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
150.00	1-0	1-2	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-2
175.00	1-5	1-7	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0
200.00	1-10	2-1	2-4	2-7	2-10	3-1	3-4	3-6	3-9	3-11
225.00	2-4	2-8	3-0	3-3	3-7	3-11	4-2	4-5	4-9	5-0
250.00	2-11	3-3	3-8	4-1	4-5	4-10	5-2	5-6	5-10	6-2

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-0
125.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7
150.00	1-3	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-3	2-4
175.00	1-9	1-11	2-2	2-4	2-6	2-8	2-10	3-0	3-1	3-2
200.00	2-3	2-6	2-9	3-0	3-3	3-6	3-8	3-10	4-0	4-2
225.00	2-11	3-3	3-6	3-10	4-1	4-5	4-8	4-11	5-1	5-3
250.00	3-7	4-0	4-4	4-9	5-1	5-5	5-9	6-1	6-4	6-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.30

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-5	2-6	2-6
175.00	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-4	3-5	3-5
200.00	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6
225.00	4-8	4-10	4-11	5-1	5-2	5-3	5-5	5-6	5-7	5-8
250.00	5-10	5-11	6-1	6-3	6-5	6-6	6-8	6-9	6-11	7-0
275.00	7-0	7-2	7-5	7-7	7-9	7-11	8-1	8-2	8-4	8-6
300.00	8-4	8-7	8-9	9-0	9-2	9-5	9-7	9-9	9-11	10-2
325.00	9-10	10-1	10-4	10-7	10-9	11-0	11-3	11-6	11-8	11-11
350.00	11-5	11-8	12-0	12-3	12-6	12-9	13-0	13-4	13-7	13-10
375.00	13-1	13-5	13-9	14-1	14-4	14-8	15-0	15-3	15-7	15-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-6	2-7	2-7
175.00	3-0	3-1	3-1	3-2	3-3	3-4	3-4	3-5	3-6	3-6
200.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-6	4-7
225.00	4-11	5-0	5-2	5-3	5-4	5-6	5-7	5-8	5-9	5-9
250.00	6-1	6-3	6-4	6-6	6-7	6-9	6-10	7-0	7-1	7-2
275.00	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-5	8-7	8-8
300.00	8-9	8-11	9-2	9-4	9-6	9-9	9-11	10-1	10-2	10-3
325.00	10-3	10-6	10-9	11-0	11-2	11-5	11-7	11-10	11-11	12-1
350.00	11-11	12-2	12-6	12-9	13-0	13-3	13-6	13-8	13-10	14-0
375.00	13-8	14-0	14-4	14-7	14-11	15-2	15-6	15-9	15-11	16-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.31

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8
225.00	5-5	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-11	5-11
250.00	6-9	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-3	7-4
275.00	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-11
300.00	9-8	9-9	9-11	10-0	10-1	10-2	10-4	10-5	10-6	10-7
325.00	11-4	11-6	11-7	11-9	11-10	12-0	12-1	12-2	12-4	12-5
350.00	13-2	13-4	13-6	13-7	13-9	13-11	14-0	14-2	14-4	14-5
375.00	15-1	15-3	15-5	15-7	15-9	15-11	16-1	16-3	16-5	16-7
400.00	17-3	17-5	17-7	17-9	18-0	18-2	18-4	18-6	18-8	18-10
425.00	19-5	19-8	19-10	20-1	20-3	20-6	20-8	20-11	21-1	21-4
450.00	21-10	22-0	22-3	22-6	22-9	23-0	23-3	23-5	23-8	23-11
475.00	24-4	24-7	24-10	25-1	25-4	25-7	25-10	26-2	26-5	26-8
500.00	26-11	27-3	27-6	27-10	28-1	28-5	28-8	29-0	29-3	29-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9	4-9
225.00	5-7	5-7	5-8	5-9	5-9	5-10	5-11	5-11	6-0	6-0
250.00	6-10	6-11	7-0	7-1	7-2	7-2	7-3	7-4	7-4	7-5
275.00	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-10	8-11	9-0
300.00	9-10	10-0	10-1	10-2	10-3	10-4	10-6	10-7	10-7	10-8
325.00	11-7	11-8	11-10	11-11	12-1	12-2	12-4	12-5	12-6	12-6
350.00	13-5	13-7	13-9	13-10	14-0	14-2	14-3	14-4	14-5	14-6
375.00	15-5	15-7	15-9	15-11	16-1	16-3	16-5	16-6	16-7	16-8
400.00	17-7	17-9	17-11	18-1	18-3	18-6	18-8	18-9	18-11	19-0
425.00	19-10	20-1	20-3	20-5	20-8	20-10	21-1	21-2	21-4	21-6
450.00	22-3	22-6	22-9	22-11	23-2	23-5	23-7	23-9	23-11	24-1
475.00	24-10	25-1	25-4	25-7	25-10	26-1	26-4	26-6	26-8	26-10
500.00	27-6	27-9	28-1	28-4	28-7	28-11	29-2	29-5	29-7	29-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.32

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-1	7-2	7-3	7-3	7-4	7-4	7-5	7-5	7-6	7-6
275.00	8-7	8-8	8-9	8-9	8-10	8-11	8-11	9-0	9-1	9-1
300.00	10-3	10-4	10-5	10-5	10-6	10-7	10-8	10-9	10-9	10-10
325.00	12-1	12-2	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9
350.00	14-0	14-1	14-2	14-3	14-4	14-5	14-6	14-7	14-8	14-9
375.00	16-1	16-2	16-3	16-4	16-5	16-7	16-8	16-9	16-10	16-11
400.00	18-3	18-5	18-6	18-7	18-9	18-10	18-11	19-1	19-2	19-3
425.00	20-8	20-9	20-11	21-0	21-2	21-3	21-5	21-6	21-8	21-9
450.00	23-2	23-3	23-5	23-7	23-9	23-10	24-0	24-2	24-3	24-5
475.00	25-10	25-11	26-1	26-3	26-5	26-7	26-9	26-11	27-1	27-3
500.00	28-7	28-9	28-11	29-2	29-4	29-6	29-8	29-10	30-0	30-2
525.00	31-6	31-9	31-11	32-2	32-4	32-6	32-9	32-11	33-1	33-4
550.00	34-8	34-10	35-1	35-3	35-6	35-9	35-11	36-2	36-4	36-7
575.00	37-10	38-1	38-4	38-7	38-10	39-1	39-3	39-6	39-9	40-0
600.00	41-3	41-6	41-9	42-0	42-4	42-7	42-10	43-1	43-4	43-7
625.00	44-9	45-1	45-4	45-8	45-11	46-2	46-6	46-9	47-0	47-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-3	7-3	7-4	7-4	7-5	7-5	7-6	7-6	7-6	7-7
275.00	8-9	8-9	8-10	8-11	8-11	9-0	9-0	9-1	9-1	9-2
300.00	10-5	10-5	10-6	10-7	10-8	10-8	10-9	10-10	10-10	10-11
325.00	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-8	12-9	12-9
350.00	14-2	14-3	14-4	14-5	14-6	14-7	14-8	14-9	14-9	14-10
375.00	16-3	16-4	16-5	16-6	16-8	16-9	16-10	16-11	17-0	17-0
400.00	18-6	18-7	18-9	18-10	18-11	19-0	19-2	19-3	19-4	19-4
425.00	20-11	21-0	21-2	21-3	21-5	21-6	21-7	21-9	21-10	21-11
450.00	23-5	23-7	23-8	23-10	24-0	24-1	24-3	24-4	24-5	24-6
475.00	26-1	26-3	26-5	26-7	26-9	26-11	27-0	27-2	27-3	27-4
500.00	28-11	29-1	29-3	29-5	29-8	29-10	30-0	30-1	30-3	30-4
525.00	31-11	32-1	32-4	32-6	32-8	32-10	33-1	33-2	33-4	33-5
550.00	35-0	35-3	35-6	35-8	35-11	36-1	36-4	36-5	36-7	36-9
575.00	38-4	38-7	38-9	39-0	39-3	39-6	39-8	39-10	40-0	40-2
600.00	41-9	42-0	42-3	42-6	42-9	43-0	43-3	43-5	43-7	43-9
625.00	45-4	45-7	45-10	46-2	46-5	46-8	46-11	47-2	47-4	47-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.33

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 1/0 - 6/1 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION

1240 LB TENSION ---------- 807.2

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

1240 LB TENSION ---------- 807.10

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

1240 LB TENSION ---------- 807.18

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1240 LB TENSION ---------- 807.26

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REFERENCE:

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.299	0.34	1084	0.3	1240*
25	0	0	0	0.138	0.16	1057	0.14	1225
30	0	0	0	0.138	0.17	999	0.15	1186
40	0	0	0	0.138	0.2	882	0.16	1105
50	0	0	0	0.138	0.22	767	0.17	1023
60	0	0	0	0.138	0.26	654	0.18	939
70	0	0	0	0.138	0.32	544	0.2	854
80	0	0	0	0.138	0.39	441	0.22	767
90	0	0	0	0.138	0.49	349	0.25	679
100	0	0	0	0.138	0.6	289	0.29	591
110	0	0	0	0.138	0.65	267	0.34	503
120	0	0	0	0.138	0.7	246	0.41	419
130	0	0	0	0.138	0.76	227	0.51	341
167	0	0	0	0.138	1.01	170	0.92	187
212	0	0	0	0.138	1.35	128	1.26	137

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.299	1.35	1110	1.21	1240*
25	0	0	0	0.138	0.68	1011	0.58	1182
30	0	0	0	0.138	0.72	955	0.6	1143
40	0	0	0	0.138	0.81	847	0.65	1064
50	0	0	0	0.138	0.93	743	0.7	984
60	0	0	0	0.138	1.07	645	0.76	903
70	0	0	0	0.138	1.24	555	0.84	822
80	0	0	0	0.138	1.45	477	0.93	742
90	0	0	0	0.138	1.68	411	1.04	663
100	0	0	0	0.138	1.93	358	1.17	588
110	0	0	0	0.138	2.17	318	1.34	517
120	0	0	0	0.138	2.28	303	1.52	453
130	0	0	0	0.138	2.39	289	1.74	398
167	0	0	0	0.138	2.83	244	2.61	265
212	0	0	0	0.138	3.37	205	3.23	214

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.2

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.299	2.96	1138	2.71	1240*
25	0	0	0	0.138	1.65	941	1.39	1114
30	0	0	0	0.138	1.74	892	1.44	1076
40	0	0	0	0.138	1.95	798	1.55	1000
50	0	0	0	0.138	2.18	711	1.68	925
60	0	0	0	0.138	2.45	633	1.82	851
70	0	0	0	0.138	2.75	565	1.99	779
80	0	0	0	0.138	3.07	506	2.19	710
90	0	0	0	0.138	3.4	457	2.41	644
100	0	0	0	0.138	3.74	416	2.66	584
110	0	0	0	0.138	4.07	382	2.93	530
120	0	0	0	0.138	4.4	353	3.22	482
130	0	0	0	0.138	4.6	338	3.53	441
167	0	0	0	0.138	5.18	300	4.67	333
212	0	0	0	0.138	5.89	264	5.73	271

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.299	5.15	1161	4.83	1240*
25	0	0	0	0.138	3.2	863	2.69	1027
30	0	0	0	0.138	3.36	822	2.78	993
40	0	0	0	0.138	3.7	747	2.99	924
50	0	0	0	0.138	4.06	680	3.22	858
60	0	0	0	0.138	4.45	621	3.48	794
70	0	0	0	0.138	4.84	570	3.76	734
80	0	0	0	0.138	5.25	526	4.07	678
90	0	0	0	0.138	5.65	488	4.4	627
100	0	0	0	0.138	6.06	456	4.75	581
110	0	0	0	0.138	6.45	428	5.11	540
120	0	0	0	0.138	6.84	404	5.48	504
130	0	0	0	0.138	7.22	383	5.86	472
167	0	0	0	0.138	8.04	344	7.22	383
212	0	0	0	0.138	8.89	311	8.72	317

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.3

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.299	7.93	1180	7.54	1240*
25	0	0	0	0.138	5.45	791	4.61	936
30	0	0	0	0.138	5.67	761	4.76	906
40	0	0	0	0.138	6.13	704	5.09	848
50	0	0	0	0.138	6.59	655	5.44	793
60	0	0	0	0.138	7.06	611	5.81	743
70	0	0	0	0.138	7.53	573	6.2	696
80	0	0	0	0.138	8	539	6.61	653
90	0	0	0	0.138	8.47	510	7.03	614
100	0	0	0	0.138	8.92	484	7.45	579
110	0	0	0	0.138	9.37	461	7.88	548
120	0	0	0	0.138	9.81	440	8.31	519
130	0	0	0	0.138	10.23	422	8.74	494
167	0	0	0	0.138	11.4	379	10.28	420
212	0	0	0	0.138	12.38	349	12.02	359

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.4

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
150.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9
175.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-1
200.00	0-7	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-0
150.00	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-1	1-4	1-5
175.00	0-6	0-6	0-7	0-8	0-10	1-0	1-2	1-6	1-10	2-0
200.00	0-7	0-8	0-9	0-11	1-1	1-3	1-7	2-0	2-5	2-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-6
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
175.00	0-5	0-6	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-4
225.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-8
250.00	0-11	0-11	1-0	1-1	1-2	1-4	1-5	1-8	1-10	2-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10
150.00	0-4	0-5	0-5	0-6	0-7	0-8	0-10	0-11	1-1	1-3
175.00	0-6	0-7	0-7	0-9	0-10	0-11	1-1	1-3	1-6	1-8
200.00	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-8	1-11	2-2
225.00	0-10	0-11	1-0	1-2	1-4	1-7	1-10	2-2	2-5	2-9
250.00	1-0	1-2	1-3	1-5	1-8	1-11	2-3	2-7	3-0	3-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.6

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-7	0-8	0-9
175.00	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
200.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4
225.00	0-9	0-10	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-8
250.00	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-0
275.00	1-2	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-3	2-6
300.00	1-4	1-5	1-7	1-8	1-10	2-0	2-2	2-5	2-8	2-11
325.00	1-7	1-8	1-10	2-0	2-2	2-4	2-7	2-10	3-1	3-5
350.00	1-10	2-0	2-1	2-3	2-6	2-9	3-0	3-3	3-7	4-0
375.00	2-1	2-3	2-5	2-7	2-10	3-1	3-5	3-9	4-2	4-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-3	1-5
200.00	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-6	1-8	1-10
225.00	0-11	1-0	1-1	1-3	1-5	1-7	1-9	1-11	2-1	2-3
250.00	1-1	1-3	1-4	1-6	1-8	1-11	2-2	2-4	2-7	2-10
275.00	1-4	1-6	1-8	1-10	2-1	2-4	2-7	2-10	3-2	3-5
300.00	1-7	1-9	1-11	2-2	2-5	2-9	3-1	3-5	3-9	4-1
325.00	1-10	2-1	2-3	2-7	2-11	3-3	3-7	4-0	4-5	4-9
350.00	2-2	2-4	2-8	3-0	3-4	3-9	4-2	4-8	5-1	5-6
375.00	2-5	2-9	3-0	3-5	3-10	4-4	4-10	5-4	5-10	6-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.7

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3
225.00	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-7
250.00	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-10	2-0
275.00	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-1	2-3	2-5
300.00	1-6	1-7	1-8	1-10	1-11	2-1	2-3	2-6	2-8	2-11
325.00	1-9	1-10	2-0	2-1	2-4	2-6	2-8	2-11	3-2	3-5
350.00	2-0	2-2	2-3	2-6	2-8	2-11	3-1	3-4	3-8	3-11
375.00	2-3	2-5	2-8	2-10	3-1	3-4	3-7	3-10	4-2	4-6
400.00	2-7	2-9	3-0	3-3	3-6	3-9	4-1	4-5	4-9	5-1
425.00	2-11	3-2	3-4	3-8	3-11	4-3	4-7	5-0	5-4	5-9
450.00	3-3	3-6	3-9	4-1	4-5	4-9	5-2	5-7	6-0	6-6
475.00	3-8	3-11	4-3	4-6	4-11	5-4	5-9	6-2	6-8	7-3
500.00	4-1	4-4	4-8	5-0	5-5	5-11	6-4	6-11	7-5	8-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6	1-7
225.00	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-1
250.00	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-4	2-6
275.00	1-5	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-10	3-1
300.00	1-9	1-11	2-1	2-3	2-6	2-9	2-11	3-2	3-5	3-8
325.00	2-0	2-3	2-5	2-8	2-11	3-2	3-6	3-9	4-0	4-3
350.00	2-4	2-7	2-10	3-1	3-5	3-8	4-0	4-4	4-8	4-11
375.00	2-8	2-11	3-3	3-7	3-11	4-3	4-7	5-0	5-4	5-8
400.00	3-1	3-4	3-8	4-1	4-5	4-10	5-3	5-8	6-1	6-5
425.00	3-5	3-9	4-2	4-7	5-0	5-6	5-11	6-5	6-10	7-3
450.00	3-10	4-3	4-8	5-2	5-8	6-2	6-8	7-2	7-8	8-2
475.00	4-4	4-9	5-3	5-9	6-3	6-10	7-5	8-0	8-7	9-1
500.00	4-9	5-3	5-9	6-4	6-11	7-7	8-2	8-10	9-6	10-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-9	1-10	2-0
275.00	1-4	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-5
300.00	1-7	1-9	1-10	1-11	2-1	2-3	2-5	2-6	2-8	2-10
325.00	1-11	2-0	2-2	2-4	2-5	2-7	2-10	3-0	3-2	3-4
350.00	2-2	2-4	2-6	2-8	2-10	3-0	3-3	3-5	3-8	3-10
375.00	2-6	2-8	2-10	3-1	3-3	3-6	3-9	3-11	4-2	4-5
400.00	2-10	3-1	3-3	3-6	3-9	4-0	4-3	4-6	4-9	5-1
425.00	3-3	3-5	3-8	3-11	4-2	4-6	4-9	5-1	5-5	5-8
450.00	3-7	3-10	4-1	4-5	4-8	5-0	5-4	5-8	6-0	6-5
475.00	4-0	4-4	4-7	4-11	5-3	5-7	6-0	6-4	6-9	7-1
500.00	4-6	4-9	5-1	5-5	5-10	6-2	6-7	7-0	7-5	7-11
525.00	4-11	5-3	5-7	6-0	6-5	6-10	7-3	7-9	8-3	8-8
550.00	5-5	5-9	6-2	6-7	7-0	7-6	8-0	8-6	9-0	9-6
575.00	5-11	6-4	6-9	7-2	7-8	8-2	8-9	9-4	9-10	10-5
600.00	6-5	6-10	7-4	7-10	8-4	8-11	9-6	10-1	10-9	11-4
625.00	7-0	7-5	7-11	8-6	9-1	9-8	10-4	11-0	11-8	12-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-4	1-5	1-6	1-8	1-9	1-11	2-0	2-1	2-3	2-4
275.00	1-7	1-9	1-10	2-0	2-2	2-3	2-5	2-7	2-8	2-10
300.00	1-11	2-1	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-4
325.00	2-3	2-5	2-7	2-9	3-0	3-2	3-5	3-7	3-9	3-11
350.00	2-7	2-9	3-0	3-3	3-6	3-8	3-11	4-2	4-4	4-7
375.00	2-11	3-2	3-5	3-8	4-0	4-3	4-6	4-9	5-0	5-3
400.00	3-4	3-8	3-11	4-3	4-6	4-10	5-1	5-5	5-9	6-0
425.00	3-9	4-1	4-5	4-9	5-1	5-5	5-9	6-1	6-5	6-9
450.00	4-3	4-7	5-0	5-4	5-9	6-1	6-6	6-10	7-3	7-7
475.00	4-9	5-1	5-6	5-11	6-4	6-10	7-3	7-8	8-1	8-5
500.00	5-3	5-8	6-2	6-7	7-1	7-6	8-0	8-6	8-11	9-4
525.00	5-9	6-3	6-9	7-3	7-9	8-4	8-10	9-4	9-10	10-4
550.00	6-4	6-10	7-5	8-0	8-7	9-1	9-8	10-3	10-10	11-4
575.00	6-11	7-6	8-1	8-9	9-4	10-0	10-7	11-2	11-10	12-5
600.00	7-7	8-2	8-10	9-6	10-2	10-10	11-6	12-2	12-10	13-6
625.00	8-2	8-10	9-7	10-4	11-0	11-9	12-6	13-3	13-11	14-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.9

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.384	0.49	970	0.39	1240*
20	0	0	0	0.138	0.14	1260	0.12	1444
30	0	0	0	0.138	0.15	1142	0.13	1369
40	0	0	0	0.138	0.17	1025	0.13	1292
50	0	0	0	0.138	0.19	909	0.14	1213
60	0	0	0	0.138	0.22	793	0.15	1132
70	0	0	0	0.138	0.25	679	0.16	1050
80	0	0	0	0.138	0.3	569	0.18	965
90	0	0	0	0.138	0.37	464	0.2	880
100	0	0	0	0.138	0.47	368	0.22	792
110	0	0	0	0.138	0.52	334	0.25	704
120	0	0	0	0.138	0.56	310	0.28	615
130	0	0	0	0.138	0.6	287	0.33	526
167	0	0	0	0.138	0.81	214	0.69	250
212	0	0	0	0.138	1.13	153	1.01	171

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.384	1.83	1050	1.55	1240*
20	0	0	0	0.138	0.58	1186	0.51	1364
30	0	0	0	0.138	0.64	1073	0.54	1289
40	0	0	0	0.138	0.72	962	0.57	1212
50	0	0	0	0.138	0.81	853	0.61	1133
60	0	0	0	0.138	0.92	748	0.66	1053
70	0	0	0	0.138	1.06	650	0.71	973
80	0	0	0	0.138	1.23	560	0.77	891
90	0	0	0	0.138	1.44	481	0.85	810
100	0	0	0	0.138	1.67	414	0.95	729
110	0	0	0	0.138	1.91	361	1.06	650
120	0	0	0	0.138	2.02	341	1.2	575
130	0	0	0	0.138	2.13	324	1.37	505
167	0	0	0	0.138	2.55	271	2.18	317
212	0	0	0	0.138	3.09	224	2.92	237

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.10

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.384	3.85	1121	3.48	1240*
20	0	0	0	0.138	1.46	1063	1.26	1234
30	0	0	0	0.138	1.62	960	1.34	1159
40	0	0	0	0.138	1.8	862	1.43	1084
50	0	0	0	0.138	2.02	770	1.54	1008
60	0	0	0	0.138	2.26	686	1.67	932
70	0	0	0	0.138	2.54	611	1.81	858
80	0	0	0	0.138	2.85	545	1.98	785
90	0	0	0	0.138	3.17	490	2.17	715
100	0	0	0	0.138	3.5	443	2.39	649
110	0	0	0	0.138	3.84	405	2.64	588
120	0	0	0	0.138	4.17	372	2.91	534
130	0	0	0	0.138	4.38	355	3.2	485
167	0	0	0	0.138	4.96	313	4.34	358
212	0	0	0	0.138	5.67	274	5.49	283

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.384	6.57	1170	6.2	1240*
20	0	0	0	0.138	3.05	907	2.59	1064
30	0	0	0	0.138	3.35	824	2.78	994
40	0	0	0	0.138	3.69	748	2.98	926
50	0	0	0	0.138	4.05	681	3.21	859
60	0	0	0	0.138	4.44	622	3.47	796
70	0	0	0	0.138	4.84	571	3.75	736
80	0	0	0	0.138	5.24	527	4.06	680
90	0	0	0	0.138	5.65	489	4.39	629
100	0	0	0	0.138	6.05	457	4.74	582
110	0	0	0	0.138	6.45	429	5.1	541
120	0	0	0	0.138	6.84	404	5.47	505
130	0	0	0	0.138	7.22	383	5.85	472
167	0	0	0	0.138	8.03	344	7.21	383
212	0	0	0	0.138	8.89	311	8.71	317

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.384	10.02	1199	9.69	1240*
20	0	0	0	0.138	5.69	758	4.88	885
30	0	0	0	0.138	6.14	703	5.21	828
40	0	0	0	0.138	6.61	653	5.56	775
50	0	0	0	0.138	7.08	610	5.94	726
60	0	0	0	0.138	7.55	572	6.34	681
70	0	0	0	0.138	8.02	538	6.75	639
80	0	0	0	0.138	8.48	509	7.17	602
90	0	0	0	0.138	8.94	483	7.6	568
100	0	0	0	0.138	9.38	460	8.02	538
110	0	0	0	0.138	9.82	440	8.45	511
120	0	0	0	0.138	10.25	421	8.88	486
130	0	0	0	0.138	10.67	405	9.3	464
167	0	0	0	0.138	11.8	366	10.8	400
212	0	0	0	0.138	12.77	339	12.5	346

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.12

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-5
150.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9
200.00	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	1-0

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-3	0-3	0-3
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-6	0-6
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-10
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10	1-1	1-2
175.00	0-5	0-6	0-6	0-7	0-8	0-9	0-11	1-2	1-5	1-7
200.00	0-7	0-7	0-8	0-9	0-10	1-0	1-3	1-6	1-10	2-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.13

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
150.00	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
200.00	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-1
225.00	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4
250.00	0-9	0-10	0-11	0-11	1-0	1-1	1-3	1-4	1-6	1-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10	0-11	1-1
175.00	0-5	0-6	0-7	0-7	0-8	0-10	0-11	1-1	1-3	1-6
200.00	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-8	1-11
225.00	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-10	2-1	2-5
250.00	0-11	1-0	1-1	1-3	1-5	1-8	1-11	2-3	2-7	3-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-7	0-8
175.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2
225.00	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-3	1-4	1-6
250.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-10
275.00	1-1	1-2	1-2	1-4	1-5	1-6	1-8	1-10	2-0	2-3
300.00	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-2	2-5	2-8
325.00	1-6	1-7	1-8	1-10	1-11	2-1	2-4	2-7	2-10	3-1
350.00	1-9	1-10	1-11	2-1	2-3	2-6	2-8	2-11	3-3	3-7
375.00	2-0	2-1	2-3	2-5	2-7	2-10	3-1	3-5	3-9	4-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-4
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-8
225.00	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-9	2-0	2-2
250.00	1-0	1-1	1-3	1-5	1-7	1-9	2-0	2-2	2-5	2-8
275.00	1-3	1-4	1-6	1-8	1-11	2-2	2-5	2-8	2-11	3-3
300.00	1-6	1-7	1-10	2-0	2-3	2-7	2-10	3-2	3-6	3-10
325.00	1-9	1-11	2-1	2-4	2-8	3-0	3-4	3-9	4-1	4-6
350.00	2-0	2-2	2-5	2-9	3-1	3-6	3-11	4-4	4-9	5-3
375.00	2-3	2-6	2-10	3-2	3-6	4-0	4-5	4-11	5-6	6-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.15

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3
225.00	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-7
250.00	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-10	2-0
275.00	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-1	2-3	2-5
300.00	1-6	1-7	1-8	1-10	1-11	2-1	2-3	2-6	2-8	2-10
325.00	1-9	1-10	2-0	2-1	2-3	2-6	2-8	2-11	3-2	3-4
350.00	2-0	2-2	2-3	2-6	2-8	2-10	3-1	3-4	3-8	3-11
375.00	2-3	2-5	2-7	2-10	3-1	3-4	3-7	3-10	4-2	4-6
400.00	2-7	2-9	3-0	3-3	3-6	3-9	4-1	4-5	4-9	5-1
425.00	2-11	3-2	3-4	3-8	3-11	4-3	4-7	5-0	5-4	5-9
450.00	3-3	3-6	3-9	4-1	4-5	4-9	5-2	5-7	6-0	6-6
475.00	3-8	3-11	4-2	4-6	4-11	5-4	5-9	6-2	6-8	7-2
500.00	4-1	4-4	4-8	5-0	5-5	5-10	6-4	6-10	7-5	8-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6	1-7
225.00	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-0
250.00	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2-2	2-4	2-6
275.00	1-5	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-10	3-1
300.00	1-9	1-11	2-1	2-3	2-6	2-9	2-11	3-2	3-5	3-8
325.00	2-0	2-3	2-5	2-8	2-11	3-2	3-6	3-9	4-0	4-3
350.00	2-4	2-7	2-10	3-1	3-5	3-8	4-0	4-4	4-8	4-11
375.00	2-8	2-11	3-3	3-7	3-11	4-3	4-7	5-0	5-4	5-8
400.00	3-1	3-4	3-8	4-1	4-5	4-10	5-3	5-8	6-1	6-5
425.00	3-5	3-9	4-2	4-7	5-0	5-6	5-11	6-5	6-10	7-3
450.00	3-10	4-3	4-8	5-2	5-7	6-1	6-8	7-2	7-8	8-2
475.00	4-4	4-9	5-2	5-9	6-3	6-10	7-5	8-0	8-6	9-1
500.00	4-9	5-3	5-9	6-4	6-11	7-7	8-2	8-10	9-5	10-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-3	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-0	2-1
275.00	1-6	1-7	1-8	1-10	1-11	2-0	2-2	2-4	2-5	2-7
300.00	1-9	1-10	2-0	2-2	2-3	2-5	2-7	2-9	2-11	3-1
325.00	2-1	2-2	2-4	2-6	2-8	2-10	3-0	3-3	3-5	3-7
350.00	2-5	2-7	2-9	2-11	3-1	3-4	3-6	3-9	3-11	4-2
375.00	2-9	2-11	3-2	3-4	3-7	3-10	4-0	4-3	4-6	4-9
400.00	3-1	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-2	5-5
425.00	3-6	3-9	4-0	4-4	4-7	4-11	5-2	5-6	5-10	6-1
450.00	3-11	4-3	4-6	4-10	5-2	5-6	5-10	6-2	6-6	6-10
475.00	4-5	4-8	5-0	5-4	5-9	6-1	6-6	6-10	7-3	7-8
500.00	4-11	5-2	5-7	5-11	6-4	6-9	7-2	7-7	8-0	8-5
525.00	5-5	5-9	6-2	6-7	7-0	7-5	7-11	8-4	8-10	9-4
550.00	5-11	6-4	6-9	7-2	7-8	8-2	8-8	9-2	9-9	10-3
575.00	6-5	6-11	7-4	7-10	8-5	8-11	9-6	10-1	10-7	11-2
600.00	7-0	7-6	8-0	8-7	9-2	9-9	10-4	10-11	11-7	12-2
625.00	7-7	8-2	8-8	9-3	9-11	10-7	11-2	11-10	12-6	13-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-5	1-6	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5
275.00	1-9	1-10	2-0	2-2	2-3	2-5	2-7	2-8	2-10	3-0
300.00	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-6
325.00	2-5	2-7	2-9	3-0	3-2	3-5	3-7	3-9	4-0	4-2
350.00	2-9	3-0	3-3	3-6	3-8	3-11	4-2	4-5	4-7	4-10
375.00	3-2	3-5	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-6
400.00	3-8	3-11	4-3	4-6	4-10	5-2	5-5	5-9	6-0	6-3
425.00	4-1	4-5	4-9	5-1	5-5	5-10	6-2	6-5	6-9	7-1
450.00	4-7	5-0	5-4	5-9	6-1	6-6	6-10	7-3	7-7	7-11
475.00	5-2	5-7	6-0	6-5	6-10	7-3	7-8	8-1	8-6	8-10
500.00	5-8	6-2	6-7	7-1	7-7	8-0	8-6	8-11	9-5	9-10
525.00	6-3	6-9	7-3	7-10	8-4	8-10	9-4	9-10	10-4	10-10
550.00	6-11	7-5	8-0	8-7	9-2	9-8	10-3	10-10	11-4	11-11
575.00	7-6	8-1	8-9	9-4	10-0	10-7	11-3	11-10	12-5	13-0
600.00	8-2	8-10	9-6	10-2	10-10	11-7	12-3	12-10	13-6	14-2
625.00	8-11	9-7	10-4	11-1	11-10	12-6	13-3	14-0	14-8	15-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.17

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.629	0.76	1029	0.63	1240*
20	0	0	0	0.138	0.14	1220	0.12	1394
30	0	0	0	0.138	0.16	1103	0.13	1318
40	0	0	0	0.138	0.18	986	0.14	1240
50	0	0	0	0.138	0.2	869	0.15	1160
60	0	0	0	0.138	0.23	754	0.16	1078
70	0	0	0	0.138	0.27	641	0.17	995
80	0	0	0	0.138	0.32	532	0.19	910
90	0	0	0	0.138	0.4	430	0.21	823
100	0	0	0	0.138	0.51	340	0.23	736
110	0	0	0	0.138	0.55	314	0.27	647
120	0	0	0	0.138	0.59	291	0.31	558
130	0	0	0	0.138	0.64	269	0.37	471
167	0	0	0	0.138	0.86	200	0.77	224
212	0	0	0	0.138	1.19	145	1.08	160

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.629	2.71	1163	2.54	1240*
20	0	0	0	0.138	0.68	1017	0.59	1161
30	0	0	0	0.138	0.76	906	0.64	1083
40	0	0	0	0.138	0.86	800	0.69	1003
50	0	0	0	0.138	0.99	698	0.75	923
60	0	0	0	0.138	1.14	603	0.82	842
70	0	0	0	0.138	1.33	519	0.91	762
80	0	0	0	0.138	1.55	446	1.01	683
90	0	0	0	0.138	1.79	386	1.14	607
100	0	0	0	0.138	2.04	338	1.29	534
110	0	0	0	0.138	2.28	303	1.47	469
120	0	0	0	0.138	2.39	289	1.68	411
130	0	0	0	0.138	2.51	275	1.9	363
167	0	0	0	0.138	2.95	234	2.78	248
212	0	0	0	0.138	3.49	198	3.36	205

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.18

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.629	5.75	1232	5.71	1240*
20	0	0	0	0.138	2.28	681	1.95	795
30	0	0	0	0.138	2.56	606	2.14	726
40	0	0	0	0.138	2.87	542	2.35	661
50	0	0	0	0.138	3.19	487	2.59	600
60	0	0	0	0.138	3.52	441	2.85	545
70	0	0	0	0.138	3.86	403	3.13	496
80	0	0	0	0.138	4.19	371	3.43	453
90	0	0	0	0.138	4.52	344	3.74	416
100	0	0	0	0.138	4.83	322	4.05	384
110	0	0	0	0.138	5.14	302	4.35	357
120	0	0	0	0.138	5.44	286	4.66	334
130	0	0	0	0.138	5.62	277	4.96	314
167	0	0	0	0.138	6.19	251	5.99	259
212	0	0	0	0.138	6.87	227	6.77	230

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.629	10.17	1240	10.17	1240*
20	0	0	0	0.138	6.32	437	5.59	494
30	0	0	0	0.138	6.72	411	5.96	464
40	0	0	0	0.138	7.1	389	6.32	437
50	0	0	0	0.138	7.47	370	6.69	413
60	0	0	0	0.138	7.83	353	7.05	392
70	0	0	0	0.138	8.19	338	7.4	373
80	0	0	0	0.138	8.53	324	7.75	357
90	0	0	0	0.138	8.87	312	8.09	342
100	0	0	0	0.138	9.19	301	8.42	328
110	0	0	0	0.138	9.51	291	8.74	316
120	0	0	0	0.138	9.82	282	9.06	305
130	0	0	0	0.138	10.04	276	9.37	295
167	0	0	0	0.138	10.69	259	10.47	264
212	0	0	0	0.138	11.45	242	11.36	244

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.19

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.629	15.91	1240	15.91	1240*
20	0	0	0	0.138	12.13	356	11.34	381
30	0	0	0	0.138	12.5	346	11.71	369
40	0	0	0	0.138	12.87	336	12.08	358
50	0	0	0	0.138	13.23	327	12.44	348
60	0	0	0	0.138	13.58	318	12.79	338
70	0	0	0	0.138	13.93	311	13.14	329
80	0	0	0	0.138	14.27	303	13.48	321
90	0	0	0	0.138	14.6	296	13.81	313
100	0	0	0	0.138	14.92	290	14.14	306
110	0	0	0	0.138	15.24	284	14.47	299
120	0	0	0	0.138	15.56	278	14.79	293
130	0	0	0	0.138	15.78	274	15.1	287
167	0	0	0	0.138	16.47	263	16.22	267
212	0	0	0	0.138	17.28	251	17.19	252

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.20

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
150.00	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
175.00	0-5	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
200.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10	0-10
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-2	1-3
175.00	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-3	1-7	1-8
200.00	0-7	0-8	0-8	0-10	0-11	1-1	1-4	1-7	2-0	2-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.21

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7
150.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
175.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	1-0	1-2
200.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-6
225.00	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-5	1-8	1-10
250.00	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	2-0	2-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-5	0-6	0-7
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10	0-11
150.00	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-3
175.00	0-6	0-7	0-8	0-9	0-11	1-0	1-2	1-4	1-7	1-9
200.00	0-8	0-9	0-10	1-0	1-2	1-4	1-7	1-9	2-1	2-3
225.00	0-10	1-0	1-1	1-3	1-5	1-8	2-0	2-3	2-7	2-11
250.00	1-1	1-2	1-4	1-7	1-9	2-1	2-5	2-10	3-2	3-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.22

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1
175.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6
200.00	0-10	0-11	1-1	1-2	1-3	1-5	1-6	1-8	1-10	1-11
225.00	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-5
250.00	1-4	1-6	1-8	1-10	2-0	2-2	2-5	2-7	2-10	3-0
275.00	1-8	1-10	2-0	2-2	2-5	2-8	2-11	3-2	3-5	3-8
300.00	1-11	2-2	2-4	2-7	2-10	3-2	3-5	3-9	4-1	4-4
325.00	2-3	2-6	2-9	3-0	3-4	3-8	4-0	4-5	4-9	5-1
350.00	2-8	2-11	3-2	3-6	3-11	4-3	4-8	5-1	5-6	5-11
375.00	3-1	3-4	3-8	4-1	4-5	4-11	5-4	5-10	6-4	6-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3
175.00	0-9	0-10	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-9
200.00	1-0	1-2	1-3	1-5	1-7	1-9	1-10	2-0	2-2	2-3
225.00	1-3	1-5	1-7	1-10	2-0	2-2	2-4	2-6	2-9	2-11
250.00	1-7	1-9	2-0	2-3	2-5	2-8	2-11	3-2	3-4	3-7
275.00	1-11	2-2	2-5	2-8	3-0	3-3	3-6	3-10	4-1	4-4
300.00	2-3	2-7	2-10	3-2	3-6	3-10	4-2	4-6	4-10	5-2
325.00	2-8	3-0	3-4	3-9	4-2	4-6	4-11	5-4	5-8	6-0
350.00	3-1	3-6	3-11	4-4	4-10	5-3	5-8	6-2	6-7	7-0
375.00	3-7	4-0	4-6	5-0	5-6	6-0	6-7	7-1	7-7	8-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.23

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
225.00	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-7	2-8	2-9
250.00	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-2	3-3	3-5
275.00	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2
300.00	3-2	3-4	3-7	3-9	4-0	4-2	4-4	4-7	4-9	4-11
325.00	3-8	3-11	4-2	4-5	4-8	4-11	5-1	5-4	5-7	5-9
350.00	4-3	4-7	4-10	5-1	5-5	5-8	5-11	6-2	6-5	6-8
375.00	4-11	5-3	5-7	5-11	6-2	6-6	6-10	7-1	7-5	7-8
400.00	5-7	5-11	6-4	6-8	7-1	7-5	7-9	8-1	8-5	8-9
425.00	6-4	6-9	7-2	7-7	7-11	8-4	8-9	9-2	9-6	9-10
450.00	7-1	7-6	8-0	8-6	8-11	9-4	9-10	10-3	10-8	11-1
475.00	7-11	8-5	8-11	9-5	9-11	10-5	10-11	11-5	11-11	12-4
500.00	8-9	9-4	9-11	10-5	11-0	11-7	12-1	12-8	13-2	13-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5
225.00	2-0	2-1	2-3	2-4	2-6	2-7	2-8	2-10	2-11	3-0
250.00	2-6	2-7	2-9	2-11	3-1	3-2	3-4	3-6	3-7	3-9
275.00	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2	4-4	4-6
300.00	3-7	3-9	4-0	4-2	4-5	4-7	4-10	5-0	5-2	5-4
325.00	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-10	6-1	6-3
350.00	4-10	5-2	5-5	5-9	6-0	6-3	6-6	6-9	7-0	7-3
375.00	5-7	5-11	6-3	6-7	6-11	7-2	7-6	7-10	8-1	8-4
400.00	6-4	6-9	7-1	7-6	7-10	8-2	8-6	8-10	9-2	9-6
425.00	7-2	7-7	8-0	8-5	8-10	9-3	9-8	10-0	10-5	10-9
450.00	8-0	8-6	9-0	9-5	9-11	10-4	10-10	11-3	11-8	12-0
475.00	8-11	9-6	10-0	10-6	11-1	11-7	12-0	12-6	13-0	13-5
500.00	9-11	10-6	11-1	11-8	12-3	12-10	13-4	13-10	14-4	14-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.24

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7
275.00	3-5	3-6	3-8	3-9	3-10	4-0	4-1	4-2	4-3	4-4
300.00	4-1	4-3	4-4	4-6	4-7	4-9	4-10	5-0	5-1	5-2
325.00	4-9	4-11	5-1	5-3	5-5	5-7	5-8	5-10	6-0	6-1
350.00	5-7	5-9	5-11	6-1	6-3	6-5	6-7	6-9	6-11	7-1
375.00	6-5	6-7	6-9	7-0	7-2	7-5	7-7	7-9	7-11	8-2
400.00	7-3	7-6	7-9	7-11	8-2	8-5	8-7	8-10	9-1	9-3
425.00	8-2	8-6	8-9	9-0	9-3	9-6	9-9	10-0	10-3	10-5
450.00	9-2	9-6	9-9	10-1	10-4	10-8	10-11	11-2	11-5	11-9
475.00	10-3	10-7	10-11	11-3	11-7	11-10	12-2	12-6	12-9	13-1
500.00	11-4	11-9	12-1	12-5	12-9	13-2	13-6	13-10	14-2	14-6
525.00	12-6	12-11	13-4	13-9	14-1	14-6	14-10	15-3	15-7	15-11
550.00	13-9	14-2	14-7	15-1	15-6	15-11	16-4	16-9	17-1	17-6
575.00	15-0	15-6	16-0	16-5	16-11	17-5	17-10	18-3	18-9	19-2
600.00	16-4	16-10	17-5	17-11	18-5	18-11	19-5	19-11	20-5	20-10
625.00	17-9	18-4	18-11	19-5	20-0	20-6	21-1	21-7	22-1	22-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-0	3-1	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10
275.00	3-8	3-9	3-11	4-0	4-1	4-3	4-4	4-5	4-6	4-7
300.00	4-4	4-6	4-8	4-9	4-11	5-0	5-2	5-3	5-4	5-6
325.00	5-1	5-3	5-5	5-7	5-9	5-11	6-0	6-2	6-4	6-5
350.00	5-11	6-1	6-4	6-6	6-8	6-10	7-0	7-2	7-4	7-6
375.00	6-10	7-0	7-3	7-5	7-8	7-10	8-0	8-2	8-5	8-7
400.00	7-9	8-0	8-3	8-6	8-8	8-11	9-2	9-4	9-7	9-9
425.00	8-9	9-0	9-4	9-7	9-10	10-1	10-4	10-7	10-9	11-0
450.00	9-10	10-2	10-5	10-9	11-0	11-3	11-7	11-10	12-1	12-4
475.00	10-11	11-3	11-7	11-11	12-3	12-7	12-10	13-2	13-6	13-9
500.00	12-2	12-6	12-10	13-3	13-7	13-11	14-3	14-7	14-11	15-3
525.00	13-4	13-9	14-2	14-7	15-0	15-4	15-9	16-1	16-5	16-10
550.00	14-8	15-2	15-7	16-0	16-5	16-10	17-3	17-8	18-1	18-5
575.00	16-1	16-7	17-0	17-6	18-0	18-5	18-11	19-4	19-9	20-2
600.00	17-6	18-0	18-7	19-1	19-7	20-1	20-7	21-0	21-6	22-0
625.00	19-0	19-7	20-1	20-8	21-3	21-9	22-4	22-10	23-4	23-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.25

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.054	1.16	1134	1.06	1240*
20	0	0	0	0.138	0.16	1102	0.14	1247
30	0	0	0	0.138	0.18	985	0.15	1168
40	0	0	0	0.138	0.2	868	0.16	1087
50	0	0	0	0.138	0.23	753	0.17	1005
60	0	0	0	0.138	0.27	641	0.19	920
70	0	0	0	0.138	0.32	531	0.21	835
80	0	0	0	0.138	0.4	429	0.23	748
90	0	0	0	0.138	0.51	339	0.26	660
100	0	0	0	0.138	0.61	283	0.3	572
110	0	0	0	0.138	0.66	261	0.36	485
120	0	0	0	0.138	0.72	241	0.43	401
130	0	0	0	0.138	0.78	222	0.53	326
167	0	0	0	0.138	1.03	167	0.95	182
212	0	0	0	0.138	1.37	126	1.28	135

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.054	4.26	1240	4.26	1240*
20	0	0	0	0.138	1.55	446	1.2	574
30	0	0	0	0.138	1.79	386	1.36	506
40	0	0	0	0.138	2.04	338	1.55	445
50	0	0	0	0.138	2.3	300	1.76	392
60	0	0	0	0.138	2.55	271	1.99	347
70	0	0	0	0.138	2.79	247	2.22	310
80	0	0	0	0.138	3.03	228	2.46	281
90	0	0	0	0.138	3.25	212	2.69	256
100	0	0	0	0.138	3.39	204	2.92	236
110	0	0	0	0.138	3.5	197	3.14	220
120	0	0	0	0.138	3.62	191	3.35	206
130	0	0	0	0.138	3.74	185	3.56	194
167	0	0	0	0.138	4.15	166	4.08	169
212	0	0	0	0.138	4.63	149	4.56	152

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.26

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.054	9.6	1240	9.6	1240*
20	0	0	0	0.138	7.06	221	6.48	240
30	0	0	0	0.138	7.29	213	6.73	231
40	0	0	0	0.138	7.53	207	6.97	223
50	0	0	0	0.138	7.75	201	7.2	216
60	0	0	0	0.138	7.98	195	7.43	209
70	0	0	0	0.138	8.19	190	7.65	203
80	0	0	0	0.138	8.4	185	7.87	198
90	0	0	0	0.138	8.54	182	8.09	193
100	0	0	0	0.138	8.66	180	8.29	188
110	0	0	0	0.138	8.79	177	8.5	183
120	0	0	0	0.138	8.92	175	8.7	179
130	0	0	0	0.138	9.04	172	8.9	175
167	0	0	0	0.138	9.49	164	9.41	166
212	0	0	0	0.138	10.01	156	9.94	157

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.054	17.12	1240	17.12	1240*
20	0	0	0	0.138	14.69	189	14.18	196
30	0	0	0	0.138	14.91	186	14.39	193
40	0	0	0	0.138	15.12	184	14.61	190
50	0	0	0	0.138	15.33	181	14.82	187
60	0	0	0	0.138	15.54	179	15.02	185
70	0	0	0	0.138	15.74	176	15.23	182
80	0	0	0	0.138	15.91	175	15.43	180
90	0	0	0	0.138	16.04	173	15.64	178
100	0	0	0	0.138	16.17	172	15.83	175
110	0	0	0	0.138	16.3	170	16.03	173
120	0	0	0	0.138	16.42	169	16.23	171
130	0	0	0	0.138	16.55	168	16.42	169
167	0	0	0	0.138	17.01	163	16.93	164
212	0	0	0	0.138	17.55	158	17.47	159

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.27

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.054	26.87	1240	26.87	1240*
20	0	0	0	0.138	24.48	178	23.99	181
30	0	0	0	0.138	24.69	176	24.2	180
40	0	0	0	0.138	24.89	175	24.4	178
50	0	0	0	0.138	25.1	174	24.6	177
60	0	0	0	0.138	25.3	172	24.8	176
70	0	0	0	0.138	25.5	171	25	174
80	0	0	0	0.138	25.65	170	25.2	173
90	0	0	0	0.138	25.78	169	25.39	172
100	0	0	0	0.138	25.91	168	25.59	170
110	0	0	0	0.138	26.03	167	25.78	169
120	0	0	0	0.138	26.16	167	25.97	168
130	0	0	0	0.138	26.29	166	26.16	167
167	0	0	0	0.138	26.75	163	26.67	164
212	0	0	0	0.138	27.3	160	27.22	160

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.28

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-10	0-11	1-1
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-2	1-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10	0-11	1-0
150.00	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-2	1-4	1-6
175.00	0-6	0-6	0-7	0-8	0-10	1-0	1-3	1-7	1-10	2-0
200.00	0-8	0-8	0-10	0-11	1-1	1-4	1-7	2-0	2-5	2-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-9
125.00	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3
150.00	0-8	0-9	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-9
175.00	0-11	1-1	1-2	1-4	1-6	1-8	1-11	2-1	2-3	2-5
200.00	1-2	1-4	1-7	1-9	2-0	2-3	2-6	2-8	2-11	3-2
225.00	1-6	1-9	2-0	2-3	2-6	2-10	3-1	3-5	3-8	4-0
250.00	1-11	2-2	2-5	2-9	3-1	3-6	3-10	4-3	4-7	4-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11
125.00	0-7	0-8	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-4
150.00	0-10	1-0	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-0
175.00	1-2	1-4	1-7	1-9	1-11	2-2	2-4	2-6	2-7	2-8
200.00	1-7	1-9	2-1	2-4	2-7	2-10	3-0	3-3	3-5	3-6
225.00	2-0	2-3	2-7	2-11	3-3	3-6	3-10	4-1	4-3	4-5
250.00	2-5	2-10	3-2	3-7	4-0	4-4	4-9	5-1	5-4	5-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.30

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-1
175.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
200.00	2-11	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9
225.00	3-8	3-9	3-11	4-1	4-2	4-4	4-5	4-7	4-8	4-9
250.00	4-6	4-8	4-10	5-0	5-2	5-4	5-6	5-7	5-9	5-11
275.00	5-5	5-8	5-10	6-1	6-3	6-5	6-7	6-10	7-0	7-2
300.00	6-6	6-9	7-0	7-2	7-5	7-8	7-10	8-1	8-4	8-6
325.00	7-7	7-11	8-2	8-5	8-9	9-0	9-3	9-6	9-9	10-0
350.00	8-10	9-2	9-6	9-10	10-1	10-5	10-9	11-0	11-4	11-7
375.00	10-2	10-6	10-11	11-3	11-7	12-0	12-4	12-8	13-0	13-3

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-2	2-2
175.00	2-5	2-6	2-7	2-8	2-9	2-9	2-10	2-11	2-11	3-0
200.00	3-2	3-3	3-4	3-5	3-7	3-8	3-9	3-9	3-10	3-11
225.00	4-0	4-1	4-3	4-4	4-6	4-7	4-9	4-10	4-10	4-11
250.00	4-11	5-1	5-3	5-5	5-6	5-8	5-10	5-11	6-0	6-1
275.00	5-11	6-2	6-4	6-6	6-8	6-11	7-1	7-2	7-3	7-5
300.00	7-1	7-4	7-6	7-9	8-0	8-2	8-5	8-6	8-8	8-9
325.00	8-3	8-7	8-10	9-1	9-4	9-7	9-10	10-0	10-2	10-4
350.00	9-7	9-11	10-3	10-7	10-10	11-2	11-5	11-7	11-10	12-0
375.00	11-0	11-5	11-9	12-1	12-6	12-10	13-2	13-4	13-7	13-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.31

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-6	3-7	3-8	3-8	3-9	3-10	3-10	3-11	3-11	4-0
225.00	4-6	4-7	4-7	4-8	4-9	4-10	4-11	4-11	5-0	5-1
250.00	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3
275.00	6-8	6-10	6-11	7-0	7-1	7-2	7-3	7-5	7-6	7-7
300.00	8-0	8-1	8-3	8-4	8-5	8-7	8-8	8-9	8-11	9-0
325.00	9-4	9-6	9-8	9-9	9-11	10-1	10-2	10-4	10-5	10-7
350.00	10-10	11-0	11-2	11-4	11-6	11-8	11-10	12-0	12-1	12-3
375.00	12-5	12-8	12-10	13-0	13-2	13-5	13-7	13-9	13-11	14-1
400.00	14-2	14-5	14-7	14-10	15-0	15-3	15-5	15-8	15-10	16-0
425.00	16-0	16-3	16-6	16-9	17-0	17-2	17-5	17-8	17-11	18-1
450.00	17-11	18-3	18-6	18-9	19-0	19-3	19-7	19-10	20-1	20-4
475.00	20-0	20-4	20-7	20-11	21-2	21-6	21-9	22-1	22-4	22-8
500.00	22-2	22-6	22-10	23-2	23-6	23-10	24-2	24-5	24-9	25-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-8	3-9	3-9	3-10	3-11	3-11	4-0	4-0	4-0	4-1
225.00	4-8	4-9	4-9	4-10	4-11	5-0	5-0	5-1	5-1	5-2
250.00	5-9	5-10	5-11	6-0	6-1	6-2	6-2	6-3	6-4	6-4
275.00	6-11	7-0	7-2	7-3	7-4	7-5	7-6	7-7	7-8	7-8
300.00	8-3	8-5	8-6	8-7	8-9	8-10	8-11	9-0	9-1	9-2
325.00	9-8	9-10	10-0	10-1	10-3	10-5	10-6	10-7	10-8	10-9
350.00	11-3	11-5	11-7	11-9	11-11	12-1	12-2	12-3	12-4	12-6
375.00	12-11	13-1	13-3	13-6	13-8	13-10	14-0	14-1	14-2	14-4
400.00	14-8	14-11	15-1	15-4	15-6	15-9	15-11	16-0	16-2	16-4
425.00	16-7	16-10	17-1	17-4	17-7	17-9	18-0	18-1	18-3	18-5
450.00	18-7	18-11	19-2	19-5	19-8	19-11	20-2	20-4	20-6	20-8
475.00	20-9	21-0	21-4	21-8	21-11	22-3	22-5	22-8	22-10	23-0
500.00	23-0	23-4	23-8	24-0	24-4	24-7	24-11	25-1	25-4	25-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-0	6-0	6-1	6-2	6-2	6-3	6-3	6-4	6-5	6-5
275.00	7-3	7-4	7-4	7-5	7-6	7-7	7-7	7-8	7-9	7-9
300.00	8-7	8-8	8-9	8-10	8-11	9-0	9-1	9-1	9-2	9-3
325.00	10-1	10-2	10-3	10-4	10-6	10-7	10-7	10-8	10-9	10-10
350.00	11-9	11-10	11-11	12-0	12-2	12-3	12-4	12-5	12-6	12-7
375.00	13-6	13-7	13-8	13-10	13-11	14-0	14-2	14-3	14-4	14-6
400.00	15-4	15-6	15-7	15-9	15-10	16-0	16-1	16-3	16-4	16-6
425.00	17-4	17-6	17-7	17-9	17-11	18-1	18-2	18-4	18-6	18-7
450.00	19-5	19-7	19-9	19-11	20-1	20-3	20-5	20-7	20-9	20-10
475.00	21-8	21-10	22-0	22-2	22-5	22-7	22-9	22-11	23-1	23-3
500.00	24-0	24-2	24-5	24-7	24-10	25-0	25-2	25-5	25-7	25-9
525.00	26-6	26-8	26-11	27-2	27-4	27-7	27-9	28-0	28-3	28-5
550.00	29-1	29-4	29-7	29-9	30-0	30-3	30-6	30-9	31-0	31-3
575.00	31-9	32-0	32-4	32-7	32-10	33-1	33-4	33-7	33-11	34-2
600.00	34-7	34-11	35-2	35-6	35-9	36-1	36-4	36-7	36-11	37-2
625.00	37-7	37-10	38-2	38-6	38-10	39-2	39-5	39-9	40-1	40-4

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-1	6-2	6-2	6-3	6-4	6-4	6-5	6-5	6-6	6-6
275.00	7-5	7-5	7-6	7-7	7-8	7-8	7-9	7-9	7-10	7-10
300.00	8-10	8-10	8-11	9-0	9-1	9-2	9-3	9-3	9-4	9-4
325.00	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-10	10-11	11-0
350.00	12-0	12-1	12-2	12-3	12-4	12-6	12-7	12-7	12-8	12-9
375.00	13-9	13-10	14-0	14-1	14-3	14-4	14-5	14-6	14-7	14-7
400.00	15-8	15-9	15-11	16-1	16-2	16-4	16-5	16-6	16-7	16-8
425.00	17-8	17-10	18-0	18-1	18-3	18-5	18-6	18-7	18-8	18-9
450.00	19-10	20-0	20-2	20-4	20-6	20-8	20-9	20-10	21-0	21-1
475.00	22-1	22-3	22-6	22-8	22-10	23-0	23-2	23-3	23-4	23-6
500.00	24-6	24-8	24-11	25-1	25-4	25-6	25-8	25-9	25-11	26-0
525.00	27-0	27-3	27-5	27-8	27-11	28-1	28-3	28-5	28-7	28-9
550.00	29-8	29-11	30-2	30-5	30-8	30-10	31-1	31-3	31-4	31-6
575.00	32-5	32-8	32-11	33-3	33-6	33-9	34-0	34-2	34-4	34-6
600.00	35-4	35-7	35-11	36-2	36-6	36-9	37-0	37-2	37-4	37-7
625.00	38-4	38-8	39-0	39-3	39-7	39-11	40-2	40-4	40-7	40-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.33

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 3/0 - 6/1 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION

1850 LB TENSION ---------- 808.2

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

1850 LB TENSION ---------- 808.10

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

1850 LB TENSION ---------- 808.18

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1850 LB TENSION ---------- 808.26

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REFERENCE:

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.4	0.31	1619	0.27	1850*
25	0	0	0	0.219	0.17	1589	0.15	1833
30	0	0	0	0.219	0.18	1496	0.15	1769
40	0	0	0	0.219	0.21	1312	0.17	1640
50	0	0	0	0.219	0.24	1130	0.18	1507
60	0	0	0	0.219	0.29	953	0.2	1372
70	0	0	0	0.219	0.35	783	0.22	1235
80	0	0	0	0.219	0.44	626	0.25	1096
90	0	0	0	0.219	0.56	492	0.29	956
100	0	0	0	0.219	0.65	420	0.33	818
110	0	0	0	0.219	0.71	387	0.4	683
120	0	0	0	0.219	0.77	357	0.49	558
130	0	0	0	0.219	0.83	329	0.61	451
167	0	0	0	0.219	1.1	249	1.01	270
212	0	0	0	0.219	1.44	191	1.35	203

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.4	1.22	1640	1.08	1850*
25	0	0	0	0.219	0.72	1527	0.61	1784
30	0	0	0	0.219	0.76	1441	0.64	1721
40	0	0	0	0.219	0.86	1271	0.69	1595
50	0	0	0	0.219	0.99	1109	0.75	1467
60	0	0	0	0.219	1.14	959	0.82	1339
70	0	0	0	0.219	1.33	824	0.9	1211
80	0	0	0	0.219	1.55	708	1.01	1086
90	0	0	0	0.219	1.79	613	1.14	964
100	0	0	0	0.219	2.04	537	1.29	850
110	0	0	0	0.219	2.28	482	1.47	745
120	0	0	0	0.219	2.39	459	1.68	654
130	0	0	0	0.219	2.5	438	1.9	576
167	0	0	0	0.219	2.95	372	2.78	395
212	0	0	0	0.219	3.49	314	3.36	326

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.4	2.7	1668	2.43	1850*
25	0	0	0	0.219	1.71	1442	1.44	1706
30	0	0	0	0.219	1.8	1366	1.5	1647
40	0	0	0	0.219	2.02	1220	1.61	1527
50	0	0	0	0.219	2.27	1086	1.75	1409
60	0	0	0	0.219	2.55	967	1.91	1293
70	0	0	0	0.219	2.85	864	2.09	1180
80	0	0	0	0.219	3.18	776	2.3	1073
90	0	0	0	0.219	3.51	702	2.53	973
100	0	0	0	0.219	3.85	641	2.79	883
110	0	0	0	0.219	4.18	590	3.07	802
120	0	0	0	0.219	4.5	548	3.37	731
130	0	0	0	0.219	4.71	524	3.68	670
167	0	0	0	0.219	5.29	466	4.82	512
212	0	0	0	0.219	6	412	5.84	422

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.4	4.72	1695	4.33	1850*
25	0	0	0	0.219	3.24	1353	2.72	1610
30	0	0	0	0.219	3.4	1289	2.82	1555
40	0	0	0	0.219	3.74	1171	3.03	1447
50	0	0	0	0.219	4.11	1067	3.26	1342
60	0	0	0	0.219	4.5	975	3.53	1243
70	0	0	0	0.219	4.9	895	3.82	1148
80	0	0	0	0.219	5.3	827	4.13	1061
90	0	0	0	0.219	5.71	768	4.46	982
100	0	0	0	0.219	6.11	718	4.82	910
110	0	0	0	0.219	6.51	674	5.18	846
120	0	0	0	0.219	6.89	636	5.55	790
130	0	0	0	0.219	7.27	603	5.92	740
167	0	0	0	0.219	8.09	542	7.28	602
212	0	0	0	0.219	8.94	491	8.77	500

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.4	7.27	1720	6.76	1850*
25	0	0	0	0.219	5.38	1274	4.54	1508
30	0	0	0	0.219	5.59	1224	4.69	1460
40	0	0	0	0.219	6.04	1133	5.01	1367
50	0	0	0	0.219	6.51	1052	5.35	1279
60	0	0	0	0.219	6.98	982	5.72	1197
70	0	0	0	0.219	7.45	919	6.11	1121
80	0	0	0	0.219	7.92	865	6.51	1051
90	0	0	0	0.219	8.38	817	6.93	988
100	0	0	0	0.219	8.84	775	7.36	931
110	0	0	0	0.219	9.29	738	7.78	880
120	0	0	0	0.219	9.73	704	8.21	834
130	0	0	0	0.219	10.16	675	8.64	793
167	0	0	0	0.219	11.33	605	10.19	673
212	0	0	0	0.219	12.31	557	11.94	574

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.4

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-8
150.00	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-11
175.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-3
200.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-4	0-5
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-7	0-8	0-8
125.00	0-3	0-3	0-4	0-5	0-5	0-7	0-8	0-10	1-0	1-1
150.00	0-4	0-5	0-6	0-7	0-8	0-9	1-0	1-3	1-6	1-7
175.00	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-8	2-0	2-2
200.00	0-8	0-9	0-10	1-0	1-2	1-5	1-9	2-3	2-7	2-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.5

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7
150.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
175.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	1-0	1-1
200.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-6
225.00	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-5	1-8	1-10
250.00	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	2-0	2-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-5	0-6	0-7
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10	0-11
150.00	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-3
175.00	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-4	1-7	1-9
200.00	0-8	0-9	0-10	1-0	1-2	1-4	1-7	1-9	2-0	2-3
225.00	0-10	1-0	1-1	1-3	1-5	1-8	1-11	2-3	2-7	2-11
250.00	1-1	1-2	1-4	1-7	1-9	2-1	2-5	2-10	3-2	3-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9
175.00	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-1
200.00	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-3	1-4
225.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9
250.00	1-0	1-0	1-1	1-3	1-4	1-5	1-7	1-9	1-11	2-2
275.00	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-2	2-4	2-7
300.00	1-5	1-6	1-7	1-9	1-11	2-1	2-4	2-6	2-10	3-1
325.00	1-8	1-9	1-11	2-1	2-3	2-5	2-8	3-0	3-3	3-7
350.00	1-11	2-0	2-2	2-5	2-7	2-10	3-2	3-5	3-10	4-2
375.00	2-2	2-4	2-6	2-9	3-0	3-3	3-7	3-11	4-4	4-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
175.00	0-7	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-4	1-5
200.00	0-9	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-9	1-10
225.00	0-11	1-0	1-2	1-3	1-5	1-7	1-9	2-0	2-2	2-4
250.00	1-1	1-3	1-5	1-7	1-9	2-0	2-2	2-5	2-8	2-11
275.00	1-4	1-6	1-8	1-11	2-2	2-5	2-8	2-11	3-3	3-6
300.00	1-7	1-10	2-0	2-3	2-7	2-10	3-2	3-6	3-10	4-2
325.00	1-11	2-1	2-4	2-8	3-0	3-4	3-9	4-1	4-6	4-11
350.00	2-2	2-5	2-9	3-1	3-6	3-11	4-4	4-9	5-3	5-8
375.00	2-6	2-10	3-2	3-7	4-0	4-6	5-0	5-6	6-0	6-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-8	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-4
225.00	0-10	0-11	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-8
250.00	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-9	1-11	2-0
275.00	1-3	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-3	2-5
300.00	1-6	1-7	1-8	1-10	2-0	2-2	2-4	2-6	2-9	2-11
325.00	1-9	1-10	2-0	2-2	2-4	2-6	2-9	2-11	3-2	3-5
350.00	2-0	2-2	2-4	2-6	2-8	2-11	3-2	3-5	3-8	4-0
375.00	2-4	2-6	2-8	2-10	3-1	3-4	3-8	3-11	4-3	4-7
400.00	2-8	2-10	3-0	3-3	3-6	3-10	4-2	4-6	4-10	5-2
425.00	3-0	3-2	3-5	3-8	4-0	4-4	4-8	5-0	5-5	5-10
450.00	3-4	3-7	3-10	4-2	4-6	4-10	5-3	5-8	6-1	6-7
475.00	3-9	4-0	4-3	4-7	5-0	5-5	5-10	6-4	6-10	7-4
500.00	4-1	4-5	4-9	5-1	5-6	6-0	6-5	7-0	7-6	8-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6	1-8
225.00	1-0	1-1	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-1
250.00	1-2	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-5	2-6
275.00	1-6	1-7	1-9	1-11	2-1	2-4	2-6	2-8	2-11	3-1
300.00	1-9	1-11	2-1	2-4	2-6	2-9	3-0	3-3	3-5	3-8
325.00	2-0	2-3	2-6	2-9	3-0	3-3	3-6	3-9	4-0	4-4
350.00	2-4	2-7	2-10	3-2	3-5	3-9	4-1	4-4	4-8	5-0
375.00	2-9	3-0	3-3	3-7	3-11	4-4	4-8	5-0	5-4	5-9
400.00	3-1	3-5	3-9	4-1	4-6	4-11	5-4	5-8	6-1	6-6
425.00	3-6	3-10	4-3	4-8	5-1	5-6	6-0	6-5	6-11	7-4
450.00	3-11	4-4	4-9	5-2	5-8	6-2	6-9	7-3	7-9	8-3
475.00	4-4	4-10	5-3	5-10	6-4	6-11	7-6	8-1	8-7	9-2
500.00	4-10	5-4	5-10	6-5	7-0	7-8	8-3	8-11	9-7	10-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.8

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11
275.00	1-4	1-5	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-4
300.00	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-6	2-8	2-10
325.00	1-10	2-0	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-3
350.00	2-2	2-4	2-5	2-7	2-10	3-0	3-2	3-5	3-7	3-10
375.00	2-6	2-8	2-10	3-0	3-3	3-5	3-8	3-11	4-2	4-5
400.00	2-10	3-0	3-2	3-5	3-8	3-11	4-2	4-5	4-8	5-0
425.00	3-2	3-5	3-7	3-10	4-2	4-5	4-8	5-0	5-4	5-7
450.00	3-7	3-10	4-1	4-4	4-8	4-11	5-3	5-7	5-11	6-4
475.00	4-0	4-3	4-6	4-10	5-2	5-6	5-11	6-3	6-8	7-0
500.00	4-5	4-8	5-0	5-4	5-9	6-1	6-6	6-11	7-4	7-9
525.00	4-10	5-2	5-6	5-11	6-4	6-9	7-2	7-8	8-1	8-7
550.00	5-4	5-8	6-1	6-6	6-11	7-5	7-11	8-5	8-11	9-5
575.00	5-10	6-2	6-8	7-1	7-7	8-1	8-7	9-2	9-9	10-4
600.00	6-4	6-9	7-3	7-9	8-3	8-10	9-5	10-0	10-7	11-3
625.00	6-10	7-4	7-10	8-4	8-11	9-7	10-2	10-10	11-6	12-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-3	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-3	2-4
275.00	1-7	1-8	1-10	2-0	2-1	2-3	2-5	2-6	2-8	2-10
300.00	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4
325.00	2-2	2-4	2-7	2-9	2-11	3-2	3-4	3-6	3-9	3-11
350.00	2-6	2-9	3-0	3-2	3-5	3-8	3-11	4-1	4-4	4-7
375.00	2-11	3-2	3-5	3-8	3-11	4-2	4-5	4-9	5-0	5-3
400.00	3-4	3-7	3-10	4-2	4-6	4-9	5-1	5-4	5-8	5-11
425.00	3-9	4-1	4-4	4-8	5-0	5-5	5-9	6-1	6-5	6-9
450.00	4-2	4-6	4-11	5-3	5-8	6-0	6-5	6-9	7-2	7-6
475.00	4-8	5-1	5-5	5-10	6-4	6-9	7-2	7-7	8-0	8-5
500.00	5-2	5-7	6-1	6-6	7-0	7-5	7-11	8-5	8-10	9-3
525.00	5-8	6-2	6-8	7-2	7-8	8-3	8-9	9-3	9-9	10-3
550.00	6-3	6-9	7-4	7-11	8-5	9-0	9-7	10-2	10-8	11-3
575.00	6-10	7-5	8-0	8-7	9-3	9-10	10-6	11-1	11-8	12-3
600.00	7-5	8-1	8-8	9-4	10-1	10-9	11-5	12-1	12-9	13-5
625.00	8-1	8-9	9-5	10-2	10-11	11-8	12-5	13-1	13-10	14-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.502	0.44	1434	0.34	1850*
20	0	0	0	0.219	0.14	1920	0.12	2192
30	0	0	0	0.219	0.16	1733	0.13	2070
40	0	0	0	0.219	0.18	1548	0.14	1946
50	0	0	0	0.219	0.2	1363	0.15	1819
60	0	0	0	0.219	0.23	1181	0.16	1689
70	0	0	0	0.219	0.27	1002	0.18	1556
80	0	0	0	0.219	0.33	829	0.19	1421
90	0	0	0	0.219	0.41	668	0.21	1283
100	0	0	0	0.219	0.52	528	0.24	1143
110	0	0	0	0.219	0.56	491	0.27	1002
120	0	0	0	0.219	0.6	454	0.32	862
130	0	0	0	0.219	0.65	420	0.38	724
167	0	0	0	0.219	0.88	312	0.78	349
212	0	0	0	0.219	1.21	226	1.1	250

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.502	1.64	1532	1.36	1850*
20	0	0	0	0.219	0.6	1827	0.52	2098
30	0	0	0	0.219	0.66	1648	0.55	1977
40	0	0	0	0.219	0.74	1472	0.59	1853
50	0	0	0	0.219	0.84	1302	0.63	1728
60	0	0	0	0.219	0.96	1138	0.68	1601
70	0	0	0	0.219	1.11	986	0.74	1472
80	0	0	0	0.219	1.29	848	0.82	1343
90	0	0	0	0.219	1.5	728	0.9	1214
100	0	0	0	0.219	1.74	629	1.01	1088
110	0	0	0	0.219	1.99	550	1.13	965
120	0	0	0	0.219	2.1	522	1.29	850
130	0	0	0	0.219	2.2	497	1.47	745
167	0	0	0	0.219	2.63	417	2.31	474
212	0	0	0	0.219	3.17	346	3.01	364

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.10

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.502	3.48	1625	3.05	1850*
20	0	0	0	0.219	1.47	1677	1.27	1946
30	0	0	0	0.219	1.63	1514	1.35	1827
40	0	0	0	0.219	1.81	1358	1.44	1707
50	0	0	0	0.219	2.03	1213	1.55	1587
60	0	0	0	0.219	2.28	1080	1.68	1467
70	0	0	0	0.219	2.56	962	1.83	1349
80	0	0	0	0.219	2.87	859	2	1234
90	0	0	0	0.219	3.19	772	2.19	1124
100	0	0	0	0.219	3.53	699	2.42	1020
110	0	0	0	0.219	3.86	638	2.67	924
120	0	0	0	0.219	4.19	588	2.94	838
130	0	0	0	0.219	4.4	560	3.23	762
167	0	0	0	0.219	4.98	495	4.38	563
212	0	0	0	0.219	5.69	434	5.51	448

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.502	5.93	1694	5.43	1850*
20	0	0	0	0.219	2.94	1489	2.51	1748
30	0	0	0	0.219	3.24	1354	2.68	1636
40	0	0	0	0.219	3.56	1230	2.87	1526
50	0	0	0	0.219	3.92	1118	3.09	1418
60	0	0	0	0.219	4.3	1020	3.33	1315
70	0	0	0	0.219	4.69	934	3.6	1216
80	0	0	0	0.219	5.09	860	3.9	1124
90	0	0	0	0.219	5.5	797	4.22	1038
100	0	0	0	0.219	5.91	742	4.56	961
110	0	0	0	0.219	6.3	695	4.92	891
120	0	0	0	0.219	6.7	655	5.28	829
130	0	0	0	0.219	7.08	619	5.66	775
167	0	0	0	0.219	7.9	555	7.03	624
212	0	0	0	0.219	8.76	501	8.57	512

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.502	9.02	1742	8.49	1850*
20	0	0	0	0.219	5.24	1306	4.47	1532
30	0	0	0	0.219	5.68	1206	4.77	1436
40	0	0	0	0.219	6.13	1117	5.09	1344
50	0	0	0	0.219	6.6	1038	5.44	1258
60	0	0	0	0.219	7.07	969	5.82	1177
70	0	0	0	0.219	7.54	909	6.21	1103
80	0	0	0	0.219	8.01	856	6.62	1035
90	0	0	0	0.219	8.47	809	7.04	973
100	0	0	0	0.219	8.93	768	7.46	918
110	0	0	0	0.219	9.37	731	7.89	868
120	0	0	0	0.219	9.81	699	8.32	823
130	0	0	0	0.219	10.24	669	8.75	783
167	0	0	0	0.219	11.4	601	10.29	666
212	0	0	0	0.219	12.38	554	12.03	570

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.12

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
150.00	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
175.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-8	0-9	0-10
200.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10	0-10
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-2	1-3
175.00	0-5	0-6	0-7	0-7	0-9	0-10	1-0	1-3	1-7	1-9
200.00	0-7	0-8	0-8	0-10	0-11	1-1	1-4	1-8	2-1	2-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.13

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5
150.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
200.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2
225.00	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-5
250.00	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-5	0-6
125.00	0-3	0-3	0-3	0-4	0-5	0-5	0-6	0-7	0-8	0-9
150.00	0-4	0-4	0-5	0-6	0-6	0-7	0-9	0-10	1-0	1-1
175.00	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-4	1-6
200.00	0-7	0-8	0-9	0-10	1-0	1-1	1-4	1-6	1-9	2-0
225.00	0-9	0-10	0-11	1-1	1-3	1-5	1-8	1-11	2-2	2-6
250.00	0-11	1-0	1-2	1-4	1-6	1-9	2-0	2-4	2-9	3-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-7	0-8
175.00	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2
225.00	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-3	1-4	1-6
250.00	0-11	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10
275.00	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-3
300.00	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-2	2-5	2-8
325.00	1-6	1-7	1-8	1-10	2-0	2-2	2-4	2-7	2-10	3-2
350.00	1-9	1-10	2-0	2-1	2-3	2-6	2-9	3-0	3-3	3-8
375.00	2-0	2-1	2-3	2-5	2-7	2-10	3-1	3-5	3-9	4-2

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-4
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-9
225.00	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-10	2-0	2-2
250.00	1-0	1-2	1-3	1-5	1-7	1-9	2-0	2-3	2-5	2-8
275.00	1-3	1-4	1-6	1-8	1-11	2-2	2-5	2-8	3-0	3-3
300.00	1-6	1-8	1-10	2-0	2-3	2-7	2-10	3-2	3-6	3-10
325.00	1-9	1-11	2-2	2-5	2-8	3-0	3-4	3-9	4-2	4-6
350.00	2-0	2-3	2-6	2-9	3-1	3-6	3-11	4-4	4-10	5-3
375.00	2-4	2-7	2-10	3-2	3-7	4-0	4-6	5-0	5-6	6-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.15

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3
225.00	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7
250.00	1-0	1-1	1-1	1-2	1-4	1-5	1-6	1-8	1-9	1-11
275.00	1-2	1-3	1-4	1-6	1-7	1-8	1-10	2-0	2-2	2-4
300.00	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-4	2-7	2-9
325.00	1-8	1-9	1-11	2-0	2-2	2-5	2-7	2-9	3-0	3-3
350.00	1-11	2-1	2-2	2-4	2-7	2-9	3-0	3-3	3-6	3-9
375.00	2-2	2-4	2-6	2-9	2-11	3-2	3-5	3-9	4-0	4-4
400.00	2-6	2-8	2-10	3-1	3-4	3-7	3-11	4-3	4-7	4-11
425.00	2-10	3-0	3-3	3-6	3-9	4-1	4-5	4-9	5-2	5-7
450.00	3-2	3-5	3-8	3-11	4-3	4-7	4-11	5-4	5-9	6-3
475.00	3-6	3-9	4-1	4-4	4-8	5-1	5-6	5-11	6-5	6-11
500.00	3-11	4-2	4-6	4-10	5-2	5-8	6-1	6-7	7-2	7-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7
225.00	0-11	1-0	1-2	1-3	1-4	1-6	1-7	1-9	1-10	2-0
250.00	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-6
275.00	1-5	1-6	1-8	1-10	2-0	2-3	2-5	2-7	2-9	3-0
300.00	1-8	1-10	2-0	2-2	2-5	2-8	2-10	3-1	3-4	3-7
325.00	1-11	2-2	2-4	2-7	2-10	3-1	3-4	3-8	3-11	4-2
350.00	2-3	2-6	2-9	3-0	3-3	3-7	3-11	4-3	4-6	4-10
375.00	2-7	2-10	3-2	3-5	3-9	4-1	4-6	4-10	5-2	5-6
400.00	2-11	3-3	3-7	3-11	4-4	4-8	5-1	5-6	5-11	6-4
425.00	3-4	3-8	4-0	4-5	4-10	5-4	5-9	6-3	6-8	7-1
450.00	3-9	4-1	4-6	5-0	5-5	5-11	6-5	7-0	7-6	8-0
475.00	4-2	4-7	5-0	5-6	6-1	6-7	7-2	7-9	8-4	8-11
500.00	4-7	5-1	5-7	6-1	6-9	7-4	8-0	8-7	9-3	9-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.16

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-9	1-10	2-0
275.00	1-4	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-5
300.00	1-7	1-9	1-10	2-0	2-1	2-3	2-5	2-6	2-8	2-10
325.00	1-11	2-0	2-2	2-4	2-5	2-7	2-10	3-0	3-2	3-4
350.00	2-2	2-4	2-6	2-8	2-10	3-1	3-3	3-5	3-8	3-10
375.00	2-6	2-8	2-10	3-1	3-3	3-6	3-9	3-11	4-2	4-5
400.00	2-10	3-1	3-3	3-6	3-9	4-0	4-3	4-6	4-9	5-1
425.00	3-3	3-5	3-8	3-11	4-2	4-6	4-9	5-1	5-5	5-8
450.00	3-7	3-10	4-2	4-5	4-9	5-0	5-4	5-8	6-1	6-5
475.00	4-0	4-4	4-7	4-11	5-3	5-7	6-0	6-4	6-9	7-1
500.00	4-6	4-9	5-1	5-5	5-10	6-3	6-7	7-0	7-6	7-11
525.00	4-11	5-3	5-7	6-0	6-5	6-10	7-4	7-9	8-3	8-8
550.00	5-5	5-9	6-2	6-7	7-0	7-6	8-0	8-6	9-0	9-7
575.00	5-11	6-4	6-9	7-2	7-8	8-3	8-9	9-4	9-10	10-5
600.00	6-5	6-10	7-4	7-10	8-5	8-11	9-6	10-2	10-9	11-4
625.00	7-0	7-5	8-0	8-6	9-1	9-8	10-4	11-0	11-8	12-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-4	1-5	1-6	1-8	1-9	1-11	2-0	2-1	2-3	2-4
275.00	1-7	1-9	1-10	2-0	2-2	2-3	2-5	2-7	2-8	2-10
300.00	1-11	2-1	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-4
325.00	2-3	2-5	2-7	2-9	3-0	3-2	3-5	3-7	3-9	4-0
350.00	2-7	2-9	3-0	3-3	3-6	3-8	3-11	4-2	4-4	4-7
375.00	2-11	3-2	3-5	3-9	4-0	4-3	4-6	4-9	5-0	5-3
400.00	3-4	3-8	3-11	4-3	4-6	4-10	5-1	5-5	5-9	6-0
425.00	3-9	4-1	4-5	4-9	5-1	5-5	5-9	6-1	6-5	6-9
450.00	4-3	4-7	5-0	5-4	5-9	6-1	6-6	6-10	7-3	7-7
475.00	4-9	5-1	5-6	5-11	6-5	6-10	7-3	7-8	8-1	8-6
500.00	5-3	5-8	6-2	6-7	7-1	7-6	8-0	8-6	8-11	9-4
525.00	5-9	6-3	6-9	7-3	7-10	8-4	8-10	9-4	9-10	10-4
550.00	6-4	6-10	7-5	8-0	8-7	9-1	9-8	10-3	10-10	11-4
575.00	6-11	7-6	8-1	8-9	9-4	10-0	10-7	11-2	11-10	12-5
600.00	7-7	8-2	8-10	9-6	10-2	10-10	11-6	12-2	12-10	13-6
625.00	8-2	8-10	9-7	10-4	11-1	11-9	12-6	13-3	13-11	14-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.17

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.804	0.67	1505	0.54	1850*
20	0	0	0	0.219	0.15	1874	0.13	2134
30	0	0	0	0.219	0.16	1687	0.14	2012
40	0	0	0	0.219	0.18	1502	0.15	1886
50	0	0	0	0.219	0.21	1318	0.16	1758
60	0	0	0	0.219	0.24	1136	0.17	1627
70	0	0	0	0.219	0.29	959	0.18	1493
80	0	0	0	0.219	0.35	788	0.2	1357
90	0	0	0	0.219	0.43	631	0.22	1219
100	0	0	0	0.219	0.54	506	0.25	1078
110	0	0	0	0.219	0.58	469	0.29	938
120	0	0	0	0.219	0.63	434	0.34	798
130	0	0	0	0.219	0.68	401	0.41	664
167	0	0	0	0.219	0.92	298	0.83	331
212	0	0	0	0.219	1.26	218	1.15	239

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.804	2.39	1681	2.17	1850*
20	0	0	0	0.219	0.67	1634	0.59	1867
30	0	0	0	0.219	0.75	1458	0.63	1743
40	0	0	0	0.219	0.85	1288	0.68	1617
50	0	0	0	0.219	0.97	1126	0.74	1489
60	0	0	0	0.219	1.12	974	0.8	1361
70	0	0	0	0.219	1.31	837	0.89	1233
80	0	0	0	0.219	1.52	719	0.99	1107
90	0	0	0	0.219	1.76	622	1.11	985
100	0	0	0	0.219	2.01	544	1.26	869
110	0	0	0	0.219	2.25	487	1.44	762
120	0	0	0	0.219	2.36	464	1.64	668
130	0	0	0	0.219	2.48	442	1.86	588
167	0	0	0	0.219	2.92	375	2.74	400
212	0	0	0	0.219	3.46	317	3.33	329

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.18

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.804	5.06	1790	4.9	1850*
20	0	0	0	0.219	1.99	1238	1.71	1443
30	0	0	0	0.219	2.23	1103	1.86	1327
40	0	0	0	0.219	2.51	982	2.03	1214
50	0	0	0	0.219	2.81	876	2.23	1106
60	0	0	0	0.219	3.13	787	2.45	1005
70	0	0	0	0.219	3.47	711	2.7	912
80	0	0	0	0.219	3.8	649	2.98	828
90	0	0	0	0.219	4.13	596	3.27	754
100	0	0	0	0.219	4.46	553	3.57	690
110	0	0	0	0.219	4.78	516	3.88	635
120	0	0	0	0.219	5.09	485	4.19	589
130	0	0	0	0.219	5.28	467	4.5	548
167	0	0	0	0.219	5.86	421	5.58	442
212	0	0	0	0.219	6.55	377	6.43	384

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.804	8.79	1833	8.71	1850*
20	0	0	0	0.219	4.99	878	4.36	1006
30	0	0	0	0.219	5.4	812	4.7	933
40	0	0	0	0.219	5.8	755	5.05	867
50	0	0	0	0.219	6.21	707	5.42	809
60	0	0	0	0.219	6.6	664	5.79	758
70	0	0	0	0.219	6.98	628	6.15	712
80	0	0	0	0.219	7.36	596	6.52	672
90	0	0	0	0.219	7.73	568	6.89	637
100	0	0	0	0.219	8.08	543	7.24	605
110	0	0	0	0.219	8.43	520	7.59	578
120	0	0	0	0.219	8.77	500	7.94	553
130	0	0	0	0.219	9.1	482	8.28	530
167	0	0	0	0.219	9.81	448	9.46	464
212	0	0	0	0.219	10.61	414	10.51	418

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.19

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.495	18.29	850	18.29	850*
20	0	0	0	0.087	14.67	186	14.08	194
30	0	0	0	0.087	15	182	14.42	189
40	0	0	0	0.087	15.32	178	14.75	185
50	0	0	0	0.087	15.63	175	15.07	181
60	0	0	0	0.087	15.94	171	15.4	177
70	0	0	0	0.087	16.24	168	15.71	174
80	0	0	0	0.087	16.54	165	16.02	170
90	0	0	0	0.087	16.83	162	16.33	167
100	0	0	0	0.087	17.12	160	16.63	164
110	0	0	0	0.087	17.41	157	16.92	161
120	0	0	0	0.087	17.69	154	17.21	159
130	0	0	0	0.087	17.93	152	17.5	156
167	0	0	0	0.087	18.57	147	18.49	148
212	0	0	0	0.087	19.32	142	19.24	142

* Design Condition

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.804	13.65	1847	13.63	1850*
20	0	0	0	0.219	9.72	705	8.97	764
30	0	0	0	0.219	10.15	676	9.38	730
40	0	0	0	0.219	10.57	649	9.79	700
50	0	0	0	0.219	10.98	625	10.19	672
60	0	0	0	0.219	11.38	603	10.59	647
70	0	0	0	0.219	11.77	583	10.98	624
80	0	0	0	0.219	12.16	564	11.36	604
90	0	0	0	0.219	12.53	548	11.74	584
100	0	0	0	0.219	12.9	532	12.11	567
110	0	0	0	0.219	13.26	518	12.47	550
120	0	0	0	0.219	13.61	504	12.82	535
130	0	0	0	0.219	13.95	492	13.17	521
167	0	0	0	0.219	14.81	464	14.41	476
212	0	0	0	0.219	15.69	438	15.6	441

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4
125.00	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5
150.00	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11
200.00	0-6	0-7	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-4
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7
125.00	0-3	0-3	0-3	0-4	0-5	0-5	0-7	0-8	0-10	0-11
150.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	1-0	1-3	1-4
175.00	0-5	0-6	0-7	0-8	0-9	0-10	1-1	1-4	1-8	1-9
200.00	0-7	0-8	0-9	0-10	1-0	1-2	1-5	1-9	2-2	2-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.21

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7
150.00	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-10
175.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-1
200.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-5
225.00	0-9	0-10	0-10	0-11	1-0	1-1	1-3	1-5	1-7	1-10
250.00	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	2-0	2-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-5	0-6	0-7
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-11
150.00	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-3
175.00	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-4	1-6	1-9
200.00	0-8	0-9	0-10	1-0	1-1	1-4	1-6	1-9	2-0	2-3
225.00	0-10	0-11	1-1	1-3	1-5	1-8	1-11	2-3	2-7	2-10
250.00	1-1	1-2	1-4	1-6	1-9	2-1	2-5	2-9	3-2	3-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.22

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4
200.00	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-9
225.00	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-2
250.00	1-2	1-3	1-5	1-7	1-8	1-11	2-1	2-3	2-6	2-8
275.00	1-5	1-7	1-8	1-10	2-1	2-3	2-6	2-9	3-0	3-3
300.00	1-8	1-10	2-0	2-3	2-5	2-8	3-0	3-3	3-7	3-11
325.00	2-0	2-2	2-5	2-7	2-11	3-2	3-6	3-10	4-2	4-7
350.00	2-4	2-6	2-9	3-0	3-4	3-8	4-1	4-5	4-10	5-3
375.00	2-8	2-11	3-2	3-6	3-10	4-3	4-8	5-1	5-7	6-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2
175.00	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-5	1-6	1-8
200.00	0-11	1-0	1-1	1-3	1-5	1-6	1-8	1-10	2-0	2-1
225.00	1-1	1-3	1-5	1-7	1-9	1-11	2-2	2-4	2-6	2-8
250.00	1-5	1-7	1-9	1-11	2-2	2-5	2-8	2-10	3-1	3-4
275.00	1-8	1-11	2-1	2-4	2-8	2-11	3-2	3-6	3-9	4-0
300.00	2-0	2-3	2-6	2-10	3-2	3-6	3-10	4-2	4-6	4-9
325.00	2-4	2-7	2-11	3-4	3-8	4-1	4-6	4-10	5-3	5-7
350.00	2-9	3-0	3-5	3-10	4-3	4-9	5-2	5-8	6-1	6-6
375.00	3-1	3-6	3-11	4-5	4-11	5-5	5-11	6-6	7-0	7-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.23

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11
225.00	1-5	1-6	1-7	1-9	1-10	1-11	2-1	2-2	2-3	2-5
250.00	1-8	1-10	2-0	2-1	2-3	2-5	2-7	2-8	2-10	3-0
275.00	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7
300.00	2-5	2-8	2-10	3-1	3-3	3-6	3-8	3-10	4-1	4-3
325.00	2-11	3-1	3-4	3-7	3-10	4-1	4-4	4-7	4-9	5-0
350.00	3-4	3-7	3-10	4-2	4-5	4-9	5-0	5-3	5-7	5-10
375.00	3-10	4-2	4-5	4-9	5-1	5-5	5-9	6-1	6-4	6-8
400.00	4-4	4-8	5-1	5-5	5-9	6-2	6-6	6-11	7-3	7-7
425.00	4-11	5-4	5-8	6-1	6-6	6-11	7-4	7-9	8-2	8-7
450.00	5-6	5-11	6-5	6-10	7-4	7-9	8-3	8-9	9-2	9-7
475.00	6-2	6-7	7-2	7-8	8-2	8-8	9-2	9-9	10-3	10-9
500.00	6-10	7-4	7-11	8-6	9-0	9-7	10-2	10-9	11-4	11-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-3	1-4	1-5	1-7	1-8	1-9	1-10	1-11	2-0	2-1
225.00	1-7	1-8	1-10	2-0	2-1	2-3	2-4	2-5	2-7	2-8
250.00	1-11	2-1	2-3	2-5	2-7	2-9	2-10	3-0	3-2	3-4
275.00	2-4	2-7	2-9	2-11	3-1	3-4	3-6	3-8	3-10	4-0
300.00	2-10	3-0	3-3	3-6	3-9	3-11	4-2	4-4	4-7	4-9
325.00	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-1	5-4	5-7
350.00	3-10	4-2	4-5	4-9	5-1	5-4	5-8	5-11	6-2	6-5
375.00	4-5	4-9	5-1	5-5	5-10	6-2	6-6	6-9	7-1	7-5
400.00	5-0	5-5	5-10	6-2	6-7	7-0	7-4	7-9	8-1	8-5
425.00	5-8	6-1	6-7	7-0	7-5	7-11	8-4	8-9	9-2	9-6
450.00	6-4	6-10	7-4	7-10	8-4	8-10	9-4	9-9	10-3	10-8
475.00	7-0	7-7	8-2	8-9	9-4	9-10	10-5	10-11	11-5	11-11
500.00	7-10	8-5	9-1	9-8	10-4	10-11	11-6	12-1	12-8	13-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.24

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-3	2-4	2-5	2-7	2-8	2-9	2-10	2-11	3-0	3-1
275.00	2-9	2-10	3-0	3-1	3-2	3-4	3-5	3-7	3-8	3-9
300.00	3-3	3-5	3-6	3-8	3-10	3-11	4-1	4-3	4-4	4-6
325.00	3-9	4-0	4-2	4-4	4-6	4-8	4-10	4-11	5-1	5-3
350.00	4-5	4-7	4-10	5-0	5-2	5-5	5-7	5-9	5-11	6-1
375.00	5-1	5-3	5-6	5-9	5-11	6-2	6-5	6-7	6-10	7-0
400.00	5-9	6-0	6-3	6-6	6-9	7-0	7-3	7-6	7-9	8-0
425.00	6-6	6-9	7-1	7-4	7-8	7-11	8-2	8-6	8-9	9-0
450.00	7-3	7-7	7-11	8-3	8-7	8-11	9-2	9-6	9-10	10-1
475.00	8-1	8-6	8-10	9-2	9-7	9-11	10-3	10-7	10-11	11-3
500.00	9-0	9-5	9-9	10-2	10-7	11-0	11-4	11-9	12-1	12-6
525.00	9-11	10-4	10-10	11-3	11-8	12-1	12-6	12-11	13-4	13-9
550.00	10-10	11-4	11-10	12-4	12-10	13-3	13-9	14-2	14-8	15-1
575.00	11-10	12-5	12-11	13-6	14-0	14-6	15-0	15-6	16-0	16-6
600.00	12-11	13-6	14-1	14-8	15-3	15-10	16-4	16-11	17-5	18-0
625.00	14-0	14-8	15-4	15-11	16-7	17-2	17-9	18-4	18-11	19-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-5	2-6	2-8	2-9	2-10	2-11	3-0	3-2	3-3	3-4
275.00	2-11	3-1	3-2	3-4	3-5	3-7	3-8	3-9	3-11	4-0
300.00	3-6	3-8	3-10	3-11	4-1	4-3	4-4	4-6	4-8	4-9
325.00	4-1	4-3	4-6	4-8	4-10	5-0	5-2	5-3	5-5	5-7
350.00	4-9	5-0	5-2	5-5	5-7	5-9	5-11	6-2	6-4	6-6
375.00	5-6	5-8	5-11	6-2	6-5	6-7	6-10	7-1	7-3	7-5
400.00	6-3	6-6	6-9	7-0	7-3	7-6	7-9	8-0	8-3	8-6
425.00	7-0	7-4	7-8	7-11	8-3	8-6	8-9	9-1	9-4	9-7
450.00	7-10	8-3	8-7	8-11	9-3	9-6	9-10	10-2	10-5	10-9
475.00	8-9	9-2	9-6	9-11	10-3	10-7	11-0	11-4	11-8	12-0
500.00	9-9	10-2	10-7	11-0	11-5	11-9	12-2	12-6	12-11	13-3
525.00	10-9	11-2	11-8	12-1	12-7	13-0	13-5	13-10	14-3	14-7
550.00	11-9	12-3	12-9	13-3	13-9	14-3	14-9	15-2	15-7	16-1
575.00	12-10	13-5	14-0	14-6	15-1	15-7	16-1	16-7	17-1	17-6
600.00	14-0	14-7	15-3	15-10	16-5	16-11	17-6	18-1	18-7	19-1
625.00	15-2	15-10	16-6	17-2	17-9	18-5	19-0	19-7	20-2	20-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.336	1.02	1642	0.9	1850*
20	0	0	0	0.219	0.16	1738	0.14	1967
30	0	0	0	0.219	0.18	1553	0.15	1841
40	0	0	0	0.219	0.2	1368	0.16	1712
50	0	0	0	0.219	0.23	1186	0.17	1581
60	0	0	0	0.219	0.27	1007	0.19	1447
70	0	0	0	0.219	0.33	834	0.21	1311
80	0	0	0	0.219	0.41	672	0.23	1173
90	0	0	0	0.219	0.52	530	0.27	1033
100	0	0	0	0.219	0.62	444	0.31	893
110	0	0	0	0.219	0.67	410	0.36	755
120	0	0	0	0.219	0.72	378	0.44	624
130	0	0	0	0.219	0.78	349	0.54	506
167	0	0	0	0.219	1.04	262	0.96	286
212	0	0	0	0.219	1.38	198	1.29	212

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.336	3.62	1850	3.62	1850*
20	0	0	0	0.219	1.06	1029	0.92	1188
30	0	0	0	0.219	1.24	886	1.03	1066
40	0	0	0	0.219	1.44	761	1.16	947
50	0	0	0	0.219	1.67	656	1.31	836
60	0	0	0	0.219	1.92	571	1.49	734
70	0	0	0	0.219	2.17	504	1.7	645
80	0	0	0	0.219	2.43	451	1.92	570
90	0	0	0	0.219	2.68	409	2.16	508
100	0	0	0	0.219	2.92	376	2.39	458
110	0	0	0	0.219	3.09	354	2.63	417
120	0	0	0	0.219	3.21	341	2.86	383
130	0	0	0	0.219	3.33	329	3.08	356
167	0	0	0	0.219	3.77	291	3.7	296
212	0	0	0	0.219	4.27	257	4.21	261

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.26

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.336	8.15	1850	8.15	1850*
20	0	0	0	0.219	5.34	462	4.76	518
30	0	0	0	0.219	5.63	438	5.05	488
40	0	0	0	0.219	5.91	417	5.34	462
50	0	0	0	0.219	6.18	399	5.62	439
60	0	0	0	0.219	6.45	383	5.89	419
70	0	0	0	0.219	6.71	368	6.15	401
80	0	0	0	0.219	6.95	355	6.41	385
90	0	0	0	0.219	7.2	343	6.66	371
100	0	0	0	0.219	7.41	333	6.9	358
110	0	0	0	0.219	7.55	327	7.14	346
120	0	0	0	0.219	7.69	321	7.37	335
130	0	0	0	0.219	7.83	316	7.59	325
167	0	0	0	0.219	8.32	297	8.25	300
212	0	0	0	0.219	8.9	278	8.83	280

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.336	14.52	1850	14.52	1850*
20	0	0	0	0.219	11.84	371	11.3	389
30	0	0	0	0.219	12.1	363	11.56	380
40	0	0	0	0.219	12.35	356	11.82	372
50	0	0	0	0.219	12.61	349	12.07	364
60	0	0	0	0.219	12.85	342	12.32	357
70	0	0	0	0.219	13.1	336	12.56	350
80	0	0	0	0.219	13.33	330	12.8	343
90	0	0	0	0.219	13.57	324	13.04	337
100	0	0	0	0.219	13.75	320	13.27	331
110	0	0	0	0.219	13.89	317	13.51	326
120	0	0	0	0.219	14.04	314	13.73	320
130	0	0	0	0.219	14.18	310	13.96	315
167	0	0	0	0.219	14.7	300	14.63	301
212	0	0	0	0.219	15.31	288	15.24	289

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.27

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.336	22.75	1850	22.75	1850*
20	0	0	0	0.219	20.14	342	19.62	351
30	0	0	0	0.219	20.38	338	19.86	347
40	0	0	0	0.219	20.63	334	20.11	343
50	0	0	0	0.219	20.87	330	20.35	339
60	0	0	0	0.219	21.1	327	20.59	335
70	0	0	0	0.219	21.34	323	20.82	331
80	0	0	0	0.219	21.57	320	21.05	327
90	0	0	0	0.219	21.8	316	21.28	324
100	0	0	0	0.219	21.97	314	21.51	320
110	0	0	0	0.219	22.12	312	21.74	317
120	0	0	0	0.219	22.26	310	21.97	314
130	0	0	0	0.219	22.41	308	22.19	311
167	0	0	0	0.219	22.94	301	22.86	302
212	0	0	0	0.219	23.57	293	23.5	294

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.28

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-3	1-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-5
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10	1-0	1-1
150.00	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-2	1-5	1-6
175.00	0-6	0-6	0-7	0-8	0-10	1-0	1-3	1-7	1-11	2-1
200.00	0-8	0-8	0-10	0-11	1-1	1-4	1-8	2-1	2-6	2-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.29

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8
125.00	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
150.00	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-4	1-6
175.00	0-8	0-9	0-11	1-0	1-2	1-4	1-6	1-8	1-10	2-0
200.00	0-11	1-0	1-2	1-4	1-6	1-8	1-11	2-2	2-5	2-8
225.00	1-2	1-4	1-6	1-8	1-11	2-2	2-5	2-9	3-0	3-4
250.00	1-5	1-7	1-10	2-1	2-4	2-8	3-0	3-4	3-9	4-1

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-9
125.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-2
150.00	0-7	0-8	0-10	0-11	1-1	1-3	1-4	1-6	1-8	1-9
175.00	0-10	0-11	1-1	1-3	1-6	1-8	1-10	2-1	2-3	2-4
200.00	1-1	1-3	1-5	1-8	1-11	2-2	2-5	2-8	2-11	3-1
225.00	1-4	1-7	1-10	2-1	2-5	2-9	3-1	3-5	3-8	3-11
250.00	1-8	1-11	2-3	2-7	3-0	3-5	3-10	4-2	4-7	4-10

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SHEET 30 OF 33

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.30

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-9
175.00	1-7	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
200.00	2-1	2-3	2-4	2-6	2-7	2-9	2-10	2-11	3-1	3-2
225.00	2-8	2-10	3-0	3-2	3-4	3-6	3-7	3-9	3-11	4-0
250.00	3-4	3-6	3-8	3-11	4-1	4-3	4-5	4-7	4-9	4-11
275.00	4-0	4-3	4-6	4-9	4-11	5-2	5-5	5-7	5-10	6-0
300.00	4-9	5-1	5-4	5-7	5-11	6-2	6-5	6-8	6-11	7-2
325.00	5-7	5-11	6-3	6-7	6-11	7-3	7-6	7-10	8-1	8-4
350.00	6-6	6-11	7-3	7-8	8-0	8-4	8-9	9-1	9-5	9-9
375.00	7-5	7-11	8-4	8-9	9-2	9-7	10-0	10-5	10-9	11-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-10	1-11
175.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
200.00	2-4	2-6	2-8	2-9	2-10	3-0	3-1	3-2	3-4	3-4
225.00	3-0	3-2	3-4	3-6	3-8	3-9	3-11	4-1	4-2	4-3
250.00	3-8	3-11	4-1	4-4	4-6	4-8	4-10	5-0	5-2	5-3
275.00	4-6	4-9	5-0	5-2	5-5	5-8	5-10	6-1	6-3	6-4
300.00	5-4	5-8	5-11	6-2	6-5	6-8	6-11	7-2	7-5	7-7
325.00	6-3	6-7	6-11	7-3	7-7	7-10	8-2	8-5	8-8	8-10
350.00	7-3	7-8	8-1	8-5	8-9	9-2	9-6	9-10	10-1	10-3
375.00	8-4	8-10	9-3	9-8	10-1	10-6	10-10	11-3	11-7	11-10

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SHEET 31 OF 33

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.31

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-10	2-11	2-11	3-0	3-1	3-2	3-2	3-3	3-4	3-4
225.00	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-1	4-2	4-3
250.00	4-5	4-6	4-7	4-9	4-10	4-11	5-0	5-1	5-2	5-3
275.00	5-4	5-6	5-7	5-8	5-10	5-11	6-1	6-2	6-3	6-5
300.00	6-4	6-6	6-8	6-9	6-11	7-1	7-2	7-4	7-6	7-7
325.00	7-5	7-8	7-10	8-0	8-2	8-3	8-5	8-7	8-9	8-11
350.00	8-8	8-10	9-1	9-3	9-5	9-7	9-10	10-0	10-2	10-4
375.00	9-11	10-2	10-5	10-7	10-10	11-0	11-3	11-6	11-8	11-10
400.00	11-4	11-7	11-10	12-1	12-4	12-7	12-10	13-0	13-3	13-6
425.00	12-9	13-1	13-4	13-8	13-11	14-2	14-5	14-9	15-0	15-3
450.00	14-4	14-8	15-0	15-3	15-7	15-11	16-3	16-6	16-10	17-1
475.00	15-11	16-4	16-8	17-0	17-5	17-9	18-1	18-5	18-9	19-1
500.00	17-8	18-1	18-6	18-10	19-3	19-8	20-0	20-5	20-9	21-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-11	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-5	3-6
225.00	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5
250.00	4-7	4-9	4-10	4-11	5-0	5-1	5-2	5-4	5-4	5-5
275.00	5-7	5-9	5-10	5-11	6-1	6-2	6-4	6-5	6-6	6-7
300.00	6-8	6-10	6-11	7-1	7-3	7-4	7-6	7-8	7-9	7-10
325.00	7-10	8-0	8-2	8-4	8-6	8-8	8-10	8-11	9-1	9-2
350.00	9-1	9-3	9-5	9-8	9-10	10-0	10-2	10-5	10-6	10-8
375.00	10-5	10-8	10-10	11-1	11-4	11-6	11-9	11-11	12-1	12-3
400.00	11-10	12-1	12-4	12-7	12-10	13-1	13-4	13-7	13-9	13-11
425.00	13-4	13-8	13-11	14-3	14-6	14-9	15-1	15-4	15-6	15-8
450.00	15-0	15-4	15-8	16-0	16-3	16-7	16-11	17-2	17-5	17-7
475.00	16-8	17-1	17-5	17-9	18-2	18-6	18-10	19-2	19-5	19-7
500.00	18-6	18-11	19-4	19-9	20-1	20-6	20-10	21-3	21-6	21-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.32

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-11	4-11	5-0	5-1	5-2	5-2	5-3	5-4	5-4	5-5
275.00	5-11	6-0	6-1	6-2	6-3	6-3	6-4	6-5	6-6	6-7
300.00	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10
325.00	8-3	8-5	8-6	8-7	8-8	8-9	8-11	9-0	9-1	9-2
350.00	9-7	9-9	9-10	10-0	10-1	10-2	10-4	10-5	10-6	10-8
375.00	11-0	11-2	11-4	11-5	11-7	11-8	11-10	12-0	12-1	12-3
400.00	12-7	12-8	12-10	13-0	13-2	13-4	13-6	13-7	13-9	13-11
425.00	14-2	14-4	14-6	14-8	14-10	15-0	15-2	15-4	15-6	15-8
450.00	15-11	16-1	16-3	16-6	16-8	16-10	17-1	17-3	17-5	17-7
475.00	17-8	17-11	18-2	18-4	18-7	18-9	19-0	19-2	19-5	19-7
500.00	19-7	19-10	20-1	20-4	20-7	20-10	21-1	21-3	21-6	21-9
525.00	21-8	21-11	22-2	22-5	22-8	23-0	23-3	23-6	23-9	24-0
550.00	23-9	24-1	24-4	24-8	24-11	25-2	25-6	25-9	26-1	26-4
575.00	26-0	26-3	26-7	26-11	27-3	27-7	27-10	28-2	28-6	28-9
600.00	28-3	28-8	29-0	29-4	29-8	30-0	30-4	30-8	31-0	31-4
625.00	30-8	31-1	31-5	31-10	32-2	32-7	32-11	33-4	33-8	34-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-0	5-1	5-2	5-2	5-3	5-4	5-5	5-5	5-6	5-6
275.00	6-1	6-2	6-3	6-4	6-4	6-5	6-6	6-7	6-8	6-8
300.00	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11	7-11
325.00	8-6	8-7	8-8	8-10	8-11	9-0	9-1	9-2	9-3	9-4
350.00	9-10	10-0	10-1	10-3	10-4	10-5	10-7	10-8	10-9	10-10
375.00	11-4	11-5	11-7	11-9	11-10	12-0	12-1	12-3	12-4	12-5
400.00	12-11	13-0	13-2	13-4	13-6	13-8	13-10	13-11	14-1	14-2
425.00	14-6	14-9	14-11	15-1	15-3	15-5	15-7	15-9	15-10	16-0
450.00	16-4	16-6	16-8	16-11	17-1	17-3	17-6	17-8	17-9	17-11
475.00	18-2	18-5	18-7	18-10	19-1	19-3	19-6	19-8	19-10	19-11
500.00	20-2	20-5	20-8	20-10	21-1	21-4	21-7	21-10	22-0	22-1
525.00	22-2	22-6	22-9	23-0	23-3	23-6	23-9	24-1	24-3	24-5
550.00	24-4	24-8	25-0	25-3	25-7	25-10	26-1	26-5	26-7	26-9
575.00	26-8	27-0	27-4	27-7	27-11	28-3	28-7	28-10	29-1	29-3
600.00	29-0	29-5	29-9	30-1	30-5	30-9	31-1	31-5	31-8	31-11
625.00	31-6	31-11	32-3	32-8	33-0	33-5	33-9	34-1	34-5	34-7

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SHEET 33 OF 33

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.33

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 4/0 - 6/1 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION

1000 LB TENSION ---------- 809.2
1500 LB TENSION ---------- 809.10
2000 LB TENSION ---------- 809.18
2400 LB TENSION ---------- 809.26

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 809.34
1500 LB TENSION ---------- 809.42
2000 LB TENSION ---------- 809.50
2400 LB TENSION ---------- 809.58

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 809.66
1500 LB TENSION ---------- 809.74
2000 LB TENSION ---------- 809.82
2400 LB TENSION ---------- 809.90

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 809.98
1500 LB TENSION ---------- 809.106
2000 LB TENSION ---------- 809.114
2400 LB TENSION ---------- 809.122

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REFERENCE:

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.466	0.65	900	0.58	1000*
25	0	0	0	0.277	0.45	771	0.38	907
30	0	0	0	0.277	0.51	684	0.42	827
40	0	0	0	0.277	0.64	539	0.51	677
50	0	0	0	0.277	0.8	433	0.63	549
60	0	0	0	0.277	0.96	361	0.77	449
70	0	0	0	0.277	1.11	311	0.92	376
80	0	0	0	0.277	1.26	275	1.07	324
90	0	0	0	0.277	1.36	254	1.21	286
100	0	0	0	0.277	1.44	241	1.35	258
110	0	0	0	0.277	1.51	230	1.47	235
120	0	0	0	0.277	1.58	219	1.55	223
130	0	0	0	0.277	1.65	210	1.62	214
167	0	0	0	0.277	1.9	183	1.87	185
212	0	0	0	0.277	2.17	160	2.14	162

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.466	2.52	925	2.33	1000*
25	0	0	0	0.277	2.12	653	1.84	753
30	0	0	0	0.277	2.25	616	1.95	709
40	0	0	0	0.277	2.5	554	2.19	634
50	0	0	0	0.277	2.75	504	2.42	572
60	0	0	0	0.277	2.98	465	2.65	522
70	0	0	0	0.277	3.21	432	2.88	481
80	0	0	0	0.277	3.43	405	3.1	447
90	0	0	0	0.277	3.63	382	3.31	418
100	0	0	0	0.277	3.83	362	3.52	394
110	0	0	0	0.277	3.95	351	3.72	373
120	0	0	0	0.277	4.07	341	3.91	355
130	0	0	0	0.277	4.18	332	4.09	339
167	0	0	0	0.277	4.57	304	4.53	307
212	0	0	0	0.277	5.02	276	4.98	279

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.2

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Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.466	5.53	951	5.25	1000*
25	0	0	0	0.277	5.04	618	4.64	673
30	0	0	0	0.277	5.2	600	4.78	652
40	0	0	0	0.277	5.49	568	5.08	615
50	0	0	0	0.277	5.78	540	5.36	582
60	0	0	0	0.277	6.05	516	5.64	554
70	0	0	0	0.277	6.32	494	5.91	528
80	0	0	0	0.277	6.58	474	6.17	506
90	0	0	0	0.277	6.84	457	6.43	486
100	0	0	0	0.277	7.08	441	6.67	468
110	0	0	0	0.277	7.32	427	6.92	451
120	0	0	0	0.277	7.48	418	7.15	437
130	0	0	0	0.277	7.62	410	7.38	423
167	0	0	0	0.277	8.12	385	8.07	387
212	0	0	0	0.277	8.71	359	8.66	361

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.466	9.67	967	9.35	1000*
25	0	0	0	0.277	9.15	607	8.69	639
30	0	0	0	0.277	9.31	596	8.84	628
40	0	0	0	0.277	9.63	577	9.16	606
50	0	0	0	0.277	9.93	559	9.46	587
60	0	0	0	0.277	10.23	543	9.76	569
70	0	0	0	0.277	10.53	528	10.06	552
80	0	0	0	0.277	10.81	514	10.35	537
90	0	0	0	0.277	11.09	501	10.63	523
100	0	0	0	0.277	11.37	489	10.9	510
110	0	0	0	0.277	11.64	478	11.17	497
120	0	0	0	0.277	11.9	467	11.44	486
130	0	0	0	0.277	12.07	461	11.7	475
167	0	0	0	0.277	12.65	440	12.59	442
212	0	0	0	0.277	13.34	417	13.28	419

* Design Condition

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SHEET 3 OF 129

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.3

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.466	14.98	977	14.63	1000*
25	0	0	0	0.277	14.43	602	13.94	623
30	0	0	0	0.277	14.6	595	14.11	616
40	0	0	0	0.277	14.93	582	14.43	602
50	0	0	0	0.277	15.25	570	14.75	589
60	0	0	0	0.277	15.56	558	15.06	577
70	0	0	0	0.277	15.87	548	15.37	565
80	0	0	0	0.277	16.17	537	15.67	555
90	0	0	0	0.277	16.47	528	15.97	544
100	0	0	0	0.277	16.77	519	16.26	535
110	0	0	0	0.277	17.06	510	16.55	525
120	0	0	0	0.277	17.34	502	16.84	516
130	0	0	0	0.277	17.58	495	17.12	508
167	0	0	0	0.277	18.23	477	18.13	480
212	0	0	0	0.277	18.99	459	18.93	460

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.4

Stringing Sag Table Using Initial Sag									Ruling Span:	100.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10
100.00	0-4	0-5	0-6	0-8	0-9	0-11	1-1	1-3	1-4	1-6
125.00	0-7	0-8	0-10	1-0	1-2	1-5	1-8	1-11	2-1	2-4
150.00	0-9	0-11	1-2	1-5	1-9	2-1	2-5	2-9	3-0	3-4
175.00	1-1	1-3	1-7	1-11	2-4	2-10	3-3	3-9	4-1	4-6
200.00	1-5	1-8	2-1	2-6	3-1	3-8	4-3	4-10	5-5	5-11

Stringing Sag Table Using Final Sag									Ruling Span:	100.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-8	0-9	0-9	0-10	0-10
100.00	0-5	0-6	0-8	0-10	1-0	1-1	1-3	1-4	1-5	1-6
125.00	0-7	0-9	1-0	1-3	1-6	1-9	2-0	2-2	2-3	2-4
150.00	0-11	1-2	1-5	1-10	2-2	2-6	2-10	3-1	3-3	3-5
175.00	1-3	1-7	2-0	2-5	2-11	3-5	3-10	4-2	4-5	4-8
200.00	1-7	2-0	2-7	3-2	3-10	4-6	5-1	5-5	5-9	6-1

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SHEET 5 OF 129

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.5

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11
125.00	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4	1-4	1-5
150.00	1-0	1-1	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-1
175.00	1-4	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-10
200.00	1-9	1-11	2-2	2-5	2-8	2-11	3-1	3-4	3-6	3-9
225.00	2-2	2-6	2-9	3-1	3-4	3-8	3-11	4-2	4-5	4-8
250.00	2-8	3-1	3-5	3-9	4-2	4-6	4-10	5-2	5-6	5-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0
125.00	0-9	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
150.00	1-1	1-3	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-3
175.00	1-6	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-0
200.00	2-0	2-3	2-6	2-9	3-0	3-3	3-5	3-8	3-10	3-11
225.00	2-6	2-10	3-2	3-6	3-9	4-1	4-4	4-7	4-10	5-0
250.00	3-1	3-6	3-11	4-4	4-8	5-0	5-4	5-8	6-0	6-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.6

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9
175.00	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
200.00	2-0	2-2	2-3	2-5	2-6	2-7	2-9	2-10	3-0	3-1
225.00	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-7	3-9	3-11
250.00	3-1	3-4	3-6	3-9	3-11	4-1	4-3	4-6	4-8	4-10
275.00	3-9	4-0	4-3	4-6	4-9	5-0	5-2	5-5	5-7	5-10
300.00	4-6	4-9	5-1	5-4	5-8	5-11	6-2	6-5	6-8	6-11
325.00	5-3	5-7	5-11	6-3	6-7	6-11	7-3	7-7	7-10	8-1
350.00	6-1	6-6	6-11	7-4	7-8	8-1	8-5	8-9	9-1	9-5
375.00	7-0	7-6	7-11	8-5	8-10	9-3	9-8	10-1	10-5	10-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10
175.00	1-8	1-9	1-10	2-0	2-1	2-2	2-3	2-4	2-5	2-6
200.00	2-2	2-4	2-5	2-7	2-8	2-10	2-11	3-0	3-2	3-3
225.00	2-9	2-11	3-1	3-3	3-5	3-7	3-8	3-10	4-0	4-1
250.00	3-5	3-7	3-10	4-0	4-2	4-5	4-7	4-9	4-11	5-1
275.00	4-1	4-4	4-7	4-10	5-1	5-4	5-6	5-9	5-11	6-2
300.00	4-11	5-2	5-6	5-9	6-1	6-4	6-7	6-10	7-1	7-4
325.00	5-9	6-1	6-5	6-9	7-1	7-5	7-9	8-0	8-4	8-7
350.00	6-8	7-1	7-6	7-10	8-3	8-7	9-0	9-4	9-8	10-0
375.00	7-8	8-1	8-7	9-0	9-6	9-11	10-3	10-8	11-1	11-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.7

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-2	2-3	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-9
225.00	2-8	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6
250.00	3-4	3-5	3-7	3-8	3-10	3-11	4-0	4-2	4-3	4-4
275.00	4-0	4-2	4-4	4-6	4-7	4-9	4-11	5-0	5-2	5-3
300.00	4-10	5-0	5-2	5-4	5-6	5-8	5-10	6-0	6-2	6-3
325.00	5-8	5-10	6-1	6-3	6-5	6-8	6-10	7-0	7-2	7-4
350.00	6-6	6-9	7-0	7-3	7-6	7-8	7-11	8-2	8-4	8-7
375.00	7-6	7-9	8-1	8-4	8-7	8-10	9-1	9-4	9-7	9-10
400.00	8-6	8-10	9-2	9-6	9-9	10-1	10-4	10-8	10-11	11-2
425.00	9-7	10-0	10-4	10-8	11-0	11-4	11-8	12-0	12-4	12-7
450.00	10-9	11-2	11-7	12-0	12-4	12-9	13-1	13-5	13-10	14-2
475.00	12-0	12-6	12-11	13-4	13-9	14-2	14-7	15-0	15-5	15-9
500.00	13-4	13-10	14-4	14-10	15-3	15-9	16-2	16-7	17-1	17-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9	2-10	2-11
225.00	2-10	2-11	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
250.00	3-6	3-8	3-9	3-11	4-0	4-1	4-3	4-4	4-5	4-7
275.00	4-3	4-5	4-7	4-8	4-10	5-0	5-1	5-3	5-4	5-6
300.00	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-5	6-7
325.00	5-11	6-2	6-4	6-7	6-9	6-11	7-2	7-4	7-6	7-8
350.00	6-11	7-2	7-4	7-7	7-10	8-1	8-3	8-6	8-8	8-11
375.00	7-11	8-2	8-6	8-9	9-0	9-3	9-6	9-9	10-0	10-3
400.00	9-0	9-4	9-8	9-11	10-3	10-6	10-10	11-1	11-4	11-8
425.00	10-2	10-6	10-10	11-3	11-7	11-11	12-3	12-6	12-10	13-2
450.00	11-5	11-9	12-2	12-7	12-11	13-4	13-8	14-1	14-5	14-9
475.00	12-8	13-2	13-7	14-0	14-5	14-10	15-3	15-8	16-0	16-5
500.00	14-1	14-7	15-1	15-6	16-0	16-5	16-11	17-4	17-9	18-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.8

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	---	---	---	---	---	---	---	---	---	---
250.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
275.00	4-2	4-3	4-4	4-5	4-7	4-8	4-9	4-10	4-11	5-0
300.00	4-11	5-1	5-2	5-4	5-5	5-6	5-8	5-9	5-10	5-11
325.00	5-10	5-11	6-1	6-3	6-4	6-6	6-7	6-9	6-10	7-0
350.00	6-9	6-11	7-1	7-3	7-4	7-6	7-8	7-10	8-0	8-1
375.00	7-9	7-11	8-1	8-3	8-6	8-8	8-10	9-0	9-2	9-4
400.00	8-10	9-0	9-3	9-5	9-8	9-10	10-0	10-3	10-5	10-7
425.00	9-11	10-2	10-5	10-8	10-11	11-1	11-4	11-6	11-9	11-11
450.00	11-2	11-5	11-8	11-11	12-2	12-5	12-8	12-11	13-2	13-5
475.00	12-5	12-9	13-0	13-4	13-7	13-10	14-2	14-5	14-8	14-11
500.00	13-9	14-1	14-5	14-9	15-1	15-4	15-8	16-0	16-3	16-7
525.00	15-2	15-7	15-11	16-3	16-7	16-11	17-3	17-7	17-11	18-3
550.00	16-8	17-1	17-6	17-10	18-3	18-7	19-0	19-4	19-8	20-0
575.00	18-3	18-8	19-1	19-6	19-11	20-4	20-9	21-2	21-6	21-11
600.00	19-10	20-4	20-9	21-3	21-8	22-2	22-7	23-0	23-5	23-10
625.00	21-6	22-1	22-7	23-1	23-7	24-0	24-6	25-0	25-5	25-11

Stringing Sag Table Using Final Sag — Ruling Span: 500.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	---	---	---	---	---	---	---	---	---	---
250.00	3-7	3-8	3-9	3-10	3-11	4-0	4-0	4-1	4-2	4-3
275.00	4-4	4-5	4-6	4-7	4-8	4-10	4-11	5-0	5-1	5-2
300.00	5-2	5-3	5-4	5-6	5-7	5-8	5-10	5-11	6-0	6-2
325.00	6-0	6-2	6-4	6-5	6-7	6-8	6-10	6-11	7-1	7-2
350.00	7-0	7-2	7-4	7-6	7-7	7-9	7-11	8-1	8-3	8-4
375.00	8-0	8-3	8-5	8-7	8-9	8-11	9-1	9-3	9-5	9-7
400.00	9-2	9-4	9-7	9-9	9-11	10-2	10-4	10-6	10-9	10-11
425.00	10-4	10-7	10-9	11-0	11-3	11-6	11-8	11-11	12-1	12-4
450.00	11-7	11-10	12-1	12-4	12-7	12-10	13-1	13-4	13-7	13-10
475.00	12-11	13-2	13-6	13-9	14-0	14-4	14-7	14-10	15-2	15-5
500.00	14-3	14-7	14-11	15-3	15-7	15-10	16-2	16-6	16-9	17-1
525.00	15-9	16-1	16-5	16-10	17-2	17-6	17-10	18-2	18-6	18-10
550.00	17-3	17-8	18-1	18-5	18-10	19-2	19-7	19-11	20-4	20-8
575.00	18-11	19-4	19-9	20-2	20-7	21-0	21-5	21-10	22-2	22-7
600.00	20-7	21-0	21-6	22-0	22-5	22-10	23-4	23-9	24-2	24-7
625.00	22-4	22-10	23-4	23-10	24-4	24-10	25-3	25-9	26-3	26-8

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SHEET 9 OF 129

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.9

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.466	0.43	1354	0.39	1500*
25	0	0	0	0.277	0.27	1287	0.24	1457
30	0	0	0	0.277	0.29	1176	0.25	1371
40	0	0	0	0.277	0.36	963	0.29	1198
50	0	0	0	0.277	0.45	769	0.34	1026
60	0	0	0	0.277	0.57	604	0.4	860
70	0	0	0	0.277	0.72	480	0.49	705
80	0	0	0	0.277	0.88	393	0.61	571
90	0	0	0	0.277	1.03	338	0.74	465
100	0	0	0	0.277	1.1	315	0.89	387
110	0	0	0	0.277	1.18	294	1.04	332
120	0	0	0	0.277	1.25	277	1.19	292
130	0	0	0	0.277	1.33	261	1.29	269
167	0	0	0	0.277	1.6	217	1.56	223
212	0	0	0	0.277	1.9	183	1.86	187

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.466	1.72	1358	1.56	1500*
25	0	0	0	0.277	1.21	1141	1.03	1344
30	0	0	0	0.277	1.31	1058	1.09	1269
40	0	0	0	0.277	1.52	909	1.23	1124
50	0	0	0	0.277	1.76	786	1.4	989
60	0	0	0	0.277	2.02	688	1.59	869
70	0	0	0	0.277	2.27	610	1.81	766
80	0	0	0	0.277	2.52	549	2.04	680
90	0	0	0	0.277	2.77	501	2.28	609
100	0	0	0	0.277	3	462	2.51	552
110	0	0	0	0.277	3.18	435	2.74	505
120	0	0	0	0.277	3.3	420	2.97	467
130	0	0	0	0.277	3.42	405	3.19	435
167	0	0	0	0.277	3.85	360	3.79	366
212	0	0	0	0.277	4.35	319	4.29	324

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.10

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.466	3.8	1383	3.5	1500*
25	0	0	0	0.277	3.01	1034	2.57	1211
30	0	0	0	0.277	3.18	981	2.7	1154
40	0	0	0	0.277	3.51	888	2.97	1050
50	0	0	0	0.277	3.85	811	3.26	957
60	0	0	0	0.277	4.18	747	3.56	876
70	0	0	0	0.277	4.5	693	3.86	807
80	0	0	0	0.277	4.82	647	4.17	748
90	0	0	0	0.277	5.13	609	4.48	697
100	0	0	0	0.277	5.42	575	4.78	653
110	0	0	0	0.277	5.71	546	5.07	615
120	0	0	0	0.277	5.99	521	5.36	582
130	0	0	0	0.277	6.15	508	5.64	554
167	0	0	0	0.277	6.7	466	6.61	473
212	0	0	0	0.277	7.36	425	7.28	429

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.466	6.64	1408	6.23	1500*
25	0	0	0	0.277	5.68	976	5.01	1106
30	0	0	0	0.277	5.88	943	5.19	1067
40	0	0	0	0.277	6.28	883	5.56	997
50	0	0	0	0.277	6.67	831	5.93	935
60	0	0	0	0.277	7.06	786	6.3	881
70	0	0	0	0.277	7.43	747	6.66	833
80	0	0	0	0.277	7.8	712	7.02	790
90	0	0	0	0.277	8.15	681	7.38	752
100	0	0	0	0.277	8.49	653	7.72	718
110	0	0	0	0.277	8.83	629	8.06	688
120	0	0	0	0.277	9.16	606	8.4	661
130	0	0	0	0.277	9.48	586	8.72	636
167	0	0	0	0.277	10.16	547	9.87	563
212	0	0	0	0.277	10.94	508	10.85	512

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.11

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.466	10.23	1428	9.73	1500*
25	0	0	0	0.277	9.17	946	8.36	1037
30	0	0	0	0.277	9.39	923	8.57	1012
40	0	0	0	0.277	9.83	882	8.99	965
50	0	0	0	0.277	10.25	846	9.4	922
60	0	0	0	0.277	10.67	813	9.81	884
70	0	0	0	0.277	11.08	783	10.21	849
80	0	0	0	0.277	11.48	756	10.61	817
90	0	0	0	0.277	11.87	731	11	788
100	0	0	0	0.277	12.25	708	11.38	762
110	0	0	0	0.277	12.62	688	11.76	738
120	0	0	0	0.277	12.99	668	12.13	715
130	0	0	0	0.277	13.34	651	12.49	695
167	0	0	0	0.277	14.26	609	13.77	630
212	0	0	0	0.277	15.15	573	15.05	577

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.12

Stringing Sag Table Using Initial Sag									Ruling Span:	100
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7
100.00	0-3	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-11	1-1
125.00	0-4	0-5	0-5	0-6	0-8	0-9	0-11	1-2	1-5	1-8
150.00	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-8	2-0	2-4
175.00	0-8	0-9	0-11	1-0	1-3	1-6	1-10	2-3	2-9	3-2
200.00	0-11	1-0	1-2	1-4	1-7	2-0	2-5	3-0	3-7	4-2

Stringing Sag Table Using Final Sag									Ruling Span:	100
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-4	0-5	0-6	0-7	0-7	0-8
100.00	0-3	0-4	0-4	0-5	0-7	0-9	0-11	1-0	1-1	1-2
125.00	0-5	0-6	0-7	0-8	0-11	1-2	1-5	1-7	1-9	1-10
150.00	0-7	0-8	0-10	1-0	1-3	1-7	2-0	2-4	2-6	2-8
175.00	0-9	0-11	1-1	1-5	1-9	2-3	2-8	3-2	3-4	3-7
200.00	1-0	1-2	1-5	1-10	2-4	2-11	3-6	4-1	4-5	4-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.13

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-8
125.00	0-5	0-5	0-6	0-7	0-7	0-8	0-10	0-11	1-0	1-1
150.00	0-7	0-7	0-8	0-9	0-11	1-0	1-2	1-3	1-5	1-7
175.00	0-9	0-10	0-11	1-1	1-3	1-5	1-7	1-9	1-11	2-1
200.00	1-0	1-1	1-3	1-5	1-7	1-10	2-0	2-3	2-6	2-9
225.00	1-3	1-5	1-7	1-9	2-0	2-3	2-7	2-11	3-2	3-6
250.00	1-6	1-8	1-11	2-2	2-6	2-10	3-2	3-7	3-11	4-3

Stringing Sag Table Using Final Sag — Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10
125.00	0-5	0-6	0-7	0-8	0-9	0-11	1-0	1-1	1-2	1-3
150.00	0-8	0-9	0-10	1-0	1-2	1-3	1-5	1-7	1-8	1-9
175.00	0-10	1-0	1-2	1-4	1-7	1-9	1-11	2-1	2-4	2-5
200.00	1-2	1-4	1-6	1-9	2-0	2-3	2-6	2-9	3-0	3-2
225.00	1-5	1-8	1-11	2-3	2-7	2-10	3-2	3-6	3-10	4-0
250.00	1-9	2-1	2-5	2-9	3-2	3-7	3-11	4-4	4-8	5-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.14

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Stringing Sag Table Using Initial Sag — Ruling Span: 300

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-3
175.00	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6	1-8	1-9
200.00	1-1	1-2	1-4	1-5	1-7	1-9	1-10	2-0	2-1	2-3
225.00	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-10
250.00	1-8	1-11	2-1	2-3	2-6	2-8	2-11	3-1	3-4	3-6
275.00	2-1	2-3	2-6	2-9	3-0	3-3	3-6	3-9	4-0	4-3
300.00	2-5	2-8	3-0	3-3	3-7	3-10	4-2	4-6	4-9	5-1
325.00	2-11	3-2	3-6	3-10	4-2	4-6	4-11	5-3	5-7	5-11
350.00	3-4	3-8	4-1	4-5	4-10	5-3	5-8	6-1	6-6	6-11
375.00	3-10	4-3	4-8	5-1	5-7	6-0	6-6	7-0	7-6	7-11

Stringing Sag Table Using Final Sag — Ruling Span: 300

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-5
175.00	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-9	1-10	1-11
200.00	1-3	1-5	1-7	1-9	1-10	2-0	2-2	2-3	2-5	2-6
225.00	1-7	1-9	2-0	2-2	2-4	2-6	2-9	2-11	3-1	3-3
250.00	2-0	2-2	2-5	2-8	2-11	3-2	3-4	3-7	3-9	4-0
275.00	2-5	2-8	2-11	3-3	3-6	3-9	4-1	4-4	4-7	4-10
300.00	2-10	3-2	3-6	3-10	4-2	4-6	4-10	5-2	5-5	5-9
325.00	3-4	3-9	4-1	4-6	4-11	5-3	5-8	6-0	6-4	6-8
350.00	3-11	4-4	4-9	5-3	5-8	6-2	6-7	7-0	7-5	7-9
375.00	4-6	5-0	5-6	6-0	6-6	7-0	7-6	8-0	8-6	8-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.15

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Stringing Sag Table Using Initial Sag — Ruling Span: 400

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0
225.00	1-6	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-7
250.00	1-11	2-0	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-2
275.00	2-3	2-5	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10
300.00	2-9	2-11	3-2	3-4	3-6	3-9	3-11	4-2	4-4	4-6
325.00	3-2	3-5	3-8	3-11	4-2	4-5	4-8	4-10	5-1	5-4
350.00	3-8	4-0	4-3	4-6	4-10	5-1	5-4	5-8	5-11	6-2
375.00	4-3	4-7	4-11	5-3	5-6	5-10	6-2	6-6	6-9	7-1
400.00	4-10	5-2	5-7	5-11	6-4	6-8	7-0	7-5	7-9	8-1
425.00	5-6	5-10	6-3	6-8	7-1	7-6	7-11	8-4	8-9	9-1
450.00	6-1	6-7	7-0	7-6	8-0	8-5	8-11	9-4	9-9	10-2
475.00	6-10	7-4	7-10	8-4	8-11	9-5	9-11	10-5	10-11	11-4
500.00	7-7	8-1	8-8	9-3	9-10	10-5	11-0	11-6	12-1	12-7

Stringing Sag Table Using Final Sag — Ruling Span: 400

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-4	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
225.00	1-9	1-10	2-0	2-1	2-3	2-4	2-6	2-7	2-8	2-10
250.00	2-2	2-4	2-5	2-7	2-9	2-11	3-1	3-2	3-4	3-5
275.00	2-7	2-9	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2
300.00	3-1	3-4	3-6	3-9	4-0	4-2	4-5	4-7	4-9	5-0
325.00	3-7	3-11	4-2	4-5	4-8	4-11	5-2	5-5	5-7	5-10
350.00	4-2	4-6	4-10	5-1	5-5	5-8	6-0	6-3	6-6	6-9
375.00	4-10	5-2	5-6	5-10	6-2	6-6	6-10	7-2	7-6	7-9
400.00	5-6	5-11	6-3	6-8	7-1	7-5	7-10	8-2	8-6	8-10
425.00	6-2	6-8	7-1	7-6	8-0	8-5	8-10	9-2	9-7	10-0
450.00	6-11	7-5	7-11	8-5	8-11	9-5	9-10	10-4	10-9	11-2
475.00	7-9	8-4	8-10	9-5	9-11	10-6	11-0	11-6	12-0	12-5
500.00	8-7	9-2	9-10	10-5	11-0	11-7	12-2	12-9	13-3	13-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.16

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Stringing Sag Table Using Initial Sag — Ruling Span: 500

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-0	2-2	2-3	2-4	2-5	2-7	2-8	2-9	2-10	2-11
275.00	2-6	2-7	2-9	2-10	3-0	3-1	3-3	3-4	3-5	3-7
300.00	2-11	3-1	3-3	3-5	3-6	3-8	3-10	4-0	4-1	4-3
325.00	3-5	3-7	3-10	4-0	4-2	4-4	4-6	4-8	4-10	5-0
350.00	4-0	4-2	4-5	4-7	4-10	5-0	5-2	5-5	5-7	5-9
375.00	4-7	4-10	5-1	5-3	5-6	5-9	6-0	6-2	6-5	6-7
400.00	5-3	5-6	5-9	6-0	6-3	6-6	6-9	7-0	7-3	7-6
425.00	5-11	6-2	6-6	6-9	7-1	7-5	7-8	7-11	8-3	8-6
450.00	6-7	6-11	7-3	7-7	7-11	8-3	8-7	8-11	9-3	9-6
475.00	7-4	7-9	8-1	8-6	8-10	9-3	9-7	9-11	10-3	10-7
500.00	8-2	8-7	9-0	9-5	9-10	10-3	10-7	11-0	11-5	11-9
525.00	9-0	9-5	9-11	10-4	10-10	11-3	11-8	12-2	12-7	13-0
550.00	9-10	10-4	10-10	11-5	11-10	12-4	12-10	13-4	13-9	14-3
575.00	10-9	11-4	11-11	12-5	13-0	13-6	14-0	14-7	15-1	15-7
600.00	11-9	12-4	12-11	13-6	14-2	14-9	15-3	15-10	16-5	16-11
625.00	12-9	13-5	14-1	14-8	15-4	16-0	16-7	17-2	17-10	18-5

Stringing Sag Table Using Final Sag — Ruling Span: 500

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-3	2-4	2-5	2-7	2-8	2-9	2-10	3-0	3-1	3-2
275.00	2-8	2-10	3-0	3-1	3-3	3-4	3-6	3-7	3-8	3-10
300.00	3-3	3-5	3-6	3-8	3-10	4-0	4-2	4-3	4-5	4-7
325.00	3-9	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-2	5-4
350.00	4-5	4-7	4-10	5-0	5-3	5-5	5-7	5-10	6-0	6-2
375.00	5-0	5-3	5-6	5-9	6-0	6-3	6-5	6-8	6-11	7-1
400.00	5-9	6-0	6-3	6-7	6-10	7-1	7-4	7-7	7-10	8-1
425.00	6-6	6-9	7-1	7-5	7-9	8-0	8-4	8-7	8-10	9-1
450.00	7-3	7-7	8-0	8-4	8-8	9-0	9-4	9-7	9-11	10-3
475.00	8-1	8-6	8-10	9-3	9-8	10-0	10-4	10-9	11-1	11-5
500.00	8-11	9-5	9-10	10-3	10-8	11-1	11-6	11-10	12-3	12-7
525.00	9-10	10-4	10-10	11-4	11-9	12-3	12-8	13-1	13-6	13-11
550.00	10-10	11-4	11-11	12-5	12-11	13-5	13-11	14-4	14-10	15-3
575.00	11-10	12-5	13-0	13-7	14-1	14-8	15-2	15-8	16-2	16-8
600.00	12-11	13-6	14-2	14-9	15-4	16-0	16-6	17-1	17-8	18-2
625.00	14-0	14-8	15-4	16-0	16-8	17-4	17-11	18-7	19-2	19-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.17

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.466	0.33	1771	0.29	2000*
25	0	0	0	0.277	0.2	1731	0.18	1976
30	0	0	0	0.277	0.21	1615	0.18	1893
40	0	0	0	0.277	0.25	1387	0.2	1724
50	0	0	0	0.277	0.3	1164	0.22	1552
60	0	0	0	0.277	0.36	952	0.25	1379
70	0	0	0	0.277	0.46	759	0.29	1204
80	0	0	0	0.277	0.58	597	0.34	1030
90	0	0	0	0.277	0.73	474	0.4	862
100	0	0	0	0.277	0.81	428	0.49	705
110	0	0	0	0.277	0.88	395	0.61	570
120	0	0	0	0.277	0.95	366	0.75	464
130	0	0	0	0.277	1.02	339	0.9	386
167	0	0	0	0.277	1.3	266	1.23	281
212	0	0	0	0.277	1.63	213	1.56	222

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.466	1.31	1783	1.17	2000*
25	0	0	0	0.277	0.85	1637	0.73	1909
30	0	0	0	0.277	0.9	1533	0.76	1829
40	0	0	0	0.277	1.04	1334	0.83	1669
50	0	0	0	0.277	1.2	1150	0.92	1509
60	0	0	0	0.277	1.4	988	1.02	1352
70	0	0	0	0.277	1.63	851	1.15	1201
80	0	0	0	0.277	1.87	739	1.31	1059
90	0	0	0	0.277	2.13	651	1.49	930
100	0	0	0	0.277	2.38	581	1.7	816
110	0	0	0	0.277	2.6	532	1.92	721
120	0	0	0	0.277	2.72	509	2.16	642
130	0	0	0	0.277	2.84	488	2.4	578
167	0	0	0	0.277	3.29	422	3.19	434
212	0	0	0	0.277	3.82	364	3.72	373

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.466	2.91	1806	2.62	2000*
25	0	0	0	0.277	2.04	1527	1.72	1809
30	0	0	0	0.277	2.16	1441	1.8	1735
40	0	0	0	0.277	2.43	1283	1.96	1591
50	0	0	0	0.277	2.72	1144	2.15	1452
60	0	0	0	0.277	3.04	1025	2.36	1320
70	0	0	0	0.277	3.37	925	2.6	1198
80	0	0	0	0.277	3.7	842	2.87	1088
90	0	0	0	0.277	4.04	772	3.15	989
100	0	0	0	0.277	4.37	714	3.45	904
110	0	0	0	0.277	4.69	665	3.76	830
120	0	0	0	0.277	5	624	4.07	767
130	0	0	0	0.277	5.19	601	4.38	713
167	0	0	0	0.277	5.78	540	5.47	571
212	0	0	0	0.277	6.47	483	6.35	492

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.466	5.09	1833	4.67	2000*
25	0	0	0	0.277	3.87	1432	3.27	1694
30	0	0	0	0.277	4.06	1367	3.4	1631
40	0	0	0	0.277	4.44	1248	3.67	1509
50	0	0	0	0.277	4.84	1146	3.97	1396
60	0	0	0	0.277	5.24	1057	4.29	1291
70	0	0	0	0.277	5.65	982	4.64	1196
80	0	0	0	0.277	6.05	916	4.99	1111
90	0	0	0	0.277	6.45	860	5.36	1035
100	0	0	0	0.277	6.84	811	5.73	968
110	0	0	0	0.277	7.22	769	6.1	909
120	0	0	0	0.277	7.59	731	6.47	857
130	0	0	0	0.277	7.95	698	6.84	811
167	0	0	0	0.277	8.74	635	8.13	682
212	0	0	0	0.277	9.57	580	9.43	589

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.19

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.466	7.85	1859	7.3	2000*
25	0	0	0	0.277	6.36	1362	5.46	1585
30	0	0	0	0.277	6.59	1314	5.65	1534
40	0	0	0	0.277	7.06	1227	6.03	1437
50	0	0	0	0.277	7.53	1150	6.42	1348
60	0	0	0	0.277	8	1083	6.84	1267
70	0	0	0	0.277	8.46	1024	7.26	1194
80	0	0	0	0.277	8.92	972	7.68	1128
90	0	0	0	0.277	9.37	925	8.11	1069
100	0	0	0	0.277	9.81	884	8.54	1015
110	0	0	0	0.277	10.23	847	8.96	967
120	0	0	0	0.277	10.65	814	9.38	924
130	0	0	0	0.277	11.06	784	9.79	885
167	0	0	0	0.277	12.17	713	11.27	770
212	0	0	0	0.277	13.12	661	12.92	672

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.20

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Stringing Sag Table Using Initial Sag — Ruling Span: 100

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-6	0-7
125.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-8	0-9	0-11
150.00	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-11	1-1	1-4
175.00	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-3	1-6	1-10
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7	2-0	2-5

Stringing Sag Table Using Final Sag — Ruling Span: 100

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-5	0-5	0-6
100.00	0-2	0-3	0-3	0-4	0-4	0-5	0-7	0-9	0-10	0-11
125.00	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-2	1-3	1-4
150.00	0-5	0-6	0-7	0-8	0-10	1-0	1-4	1-8	1-10	2-0
175.00	0-7	0-8	0-9	0-11	1-1	1-5	1-9	2-3	2-6	2-8
200.00	0-9	0-10	1-0	1-2	1-5	1-10	2-4	2-11	3-3	3-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.21

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Stringing Sag Table Using Initial Sag — Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
125.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1
175.00	0-6	0-7	0-8	0-8	0-9	0-11	1-0	1-2	1-4	1-6
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-8	1-11
225.00	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-11	2-2	2-5
250.00	1-1	1-2	1-4	1-5	1-7	1-10	2-1	2-4	2-8	3-0

Stringing Sag Table Using Final Sag — Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8
125.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
150.00	0-5	0-6	0-7	0-8	0-9	0-11	1-1	1-2	1-4	1-6
175.00	0-7	0-8	0-10	0-11	1-1	1-3	1-5	1-8	1-10	2-0
200.00	0-10	0-11	1-0	1-2	1-5	1-8	1-10	2-2	2-5	2-7
225.00	1-0	1-2	1-4	1-6	1-9	2-1	2-4	2-8	3-0	3-4
250.00	1-3	1-5	1-7	1-11	2-2	2-7	2-11	3-4	3-9	4-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.22

Stringing Sag Table Using Initial Sag								Ruling Span:		300
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11
175.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
200.00	0-9	0-10	0-10	0-11	1-1	1-2	1-3	1-5	1-6	1-8
225.00	0-11	1-0	1-1	1-2	1-4	1-6	1-7	1-9	1-11	2-1
250.00	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-2	2-5	2-7
275.00	1-5	1-6	1-8	1-10	2-0	2-2	2-5	2-8	2-11	3-2
300.00	1-8	1-10	2-0	2-2	2-4	2-7	2-10	3-2	3-5	3-9
325.00	1-11	2-1	2-4	2-6	2-9	3-1	3-4	3-8	4-1	4-5
350.00	2-3	2-5	2-8	2-11	3-3	3-6	3-11	4-3	4-8	5-1
375.00	2-7	2-10	3-1	3-4	3-8	4-1	4-6	4-11	5-5	5-10

Stringing Sag Table Using Final Sag								Ruling Span:		300
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
175.00	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4	1-6	1-7
200.00	0-10	1-0	1-1	1-3	1-4	1-6	1-8	1-10	1-11	2-1
225.00	1-1	1-3	1-4	1-6	1-9	1-11	2-1	2-3	2-5	2-8
250.00	1-4	1-6	1-8	1-11	2-1	2-4	2-7	2-10	3-0	3-3
275.00	1-7	1-10	2-0	2-3	2-7	2-10	3-1	3-5	3-8	3-11
300.00	1-11	2-2	2-5	2-9	3-0	3-4	3-8	4-0	4-4	4-8
325.00	2-3	2-6	2-10	3-2	3-7	3-11	4-4	4-9	5-2	5-6
350.00	2-7	2-11	3-4	3-8	4-2	4-7	5-1	5-6	5-11	6-5
375.00	3-0	3-5	3-10	4-3	4-9	5-3	5-9	6-4	6-10	7-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.23

Stringing Sag Table Using Initial Sag — Ruling Span: 400

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
225.00	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8	1-10	1-11
250.00	1-3	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-3	2-5
275.00	1-6	1-7	1-9	1-11	2-0	2-2	2-4	2-6	2-8	2-11
300.00	1-9	1-11	2-1	2-3	2-5	2-7	2-10	3-0	3-3	3-5
325.00	2-1	2-3	2-5	2-7	2-10	3-1	3-4	3-6	3-9	4-0
350.00	2-5	2-7	2-10	3-0	3-3	3-7	3-10	4-1	4-5	4-8
375.00	2-9	3-0	3-3	3-6	3-9	4-1	4-5	4-8	5-0	5-4
400.00	3-2	3-5	3-8	4-0	4-4	4-8	5-0	5-4	5-9	6-1
425.00	3-7	3-10	4-2	4-6	4-10	5-3	5-8	6-1	6-6	6-11
450.00	4-0	4-4	4-8	5-0	5-5	5-10	6-4	6-9	7-3	7-9
475.00	4-5	4-10	5-2	5-7	6-1	6-6	7-0	7-7	8-1	8-7
500.00	4-11	5-4	5-9	6-2	6-9	7-3	7-10	8-4	8-11	9-6

Stringing Sag Table Using Final Sag — Ruling Span: 400

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-11	1-0	1-1	1-3	1-4	1-5	1-6	1-7	1-9	1-10
225.00	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-3
250.00	1-5	1-7	1-9	1-11	2-1	2-2	2-4	2-6	2-8	2-10
275.00	1-9	1-11	2-1	2-3	2-6	2-8	2-10	3-1	3-3	3-5
300.00	2-1	2-3	2-6	2-9	2-11	3-2	3-5	3-8	3-10	4-1
325.00	2-5	2-8	2-11	3-2	3-6	3-9	4-0	4-3	4-6	4-9
350.00	2-10	3-1	3-5	3-8	4-0	4-4	4-8	4-11	5-3	5-6
375.00	3-3	3-7	3-11	4-3	4-7	5-0	5-4	5-8	6-0	6-4
400.00	3-8	4-1	4-5	4-10	5-3	5-8	6-1	6-5	6-10	7-3
425.00	4-2	4-7	5-0	5-6	5-11	6-5	6-10	7-3	7-9	8-2
450.00	4-8	5-2	5-7	6-1	6-8	7-2	7-8	8-2	8-8	9-2
475.00	5-2	5-9	6-3	6-10	7-5	8-0	8-6	9-1	9-8	10-2
500.00	5-9	6-4	6-11	7-7	8-2	8-10	9-5	10-1	10-8	11-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 500

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-0	2-2	2-3
275.00	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-5	2-7	2-9
300.00	1-11	2-0	2-2	2-4	2-6	2-7	2-9	2-11	3-1	3-3
325.00	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9
350.00	2-7	2-9	2-11	3-2	3-4	3-7	3-9	4-0	4-2	4-5
375.00	3-0	3-2	3-5	3-7	3-10	4-1	4-4	4-7	4-10	5-0
400.00	3-5	3-7	3-10	4-1	4-4	4-8	4-11	5-2	5-6	5-9
425.00	3-10	4-1	4-4	4-8	4-11	5-3	5-7	5-10	6-2	6-6
450.00	4-3	4-7	4-11	5-2	5-6	5-11	6-3	6-7	6-11	7-3
475.00	4-9	5-1	5-5	5-10	6-2	6-7	6-11	7-4	7-8	8-1
500.00	5-3	5-8	6-0	6-5	6-10	7-3	7-8	8-1	8-6	9-0
525.00	5-10	6-3	6-8	7-1	7-6	8-0	8-6	8-11	9-5	9-11
550.00	6-5	6-10	7-4	7-9	8-3	8-9	9-4	9-10	10-4	10-10
575.00	7-0	7-6	8-0	8-6	9-0	9-7	10-2	10-9	11-3	11-10
600.00	7-7	8-2	8-8	9-3	9-10	10-5	11-1	11-8	12-4	12-11
625.00	8-3	8-10	9-5	10-0	10-8	11-4	12-0	12-8	13-4	14-0

Stringing Sag Table Using Final Sag — Ruling Span: 500

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-6	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-7
275.00	1-10	2-0	2-2	2-3	2-5	2-7	2-8	2-10	3-0	3-1
300.00	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-4	3-6	3-8
325.00	2-7	2-9	3-0	3-2	3-5	3-7	3-9	3-11	4-2	4-4
350.00	3-0	3-3	3-6	3-8	3-11	4-2	4-4	4-7	4-10	5-0
375.00	3-5	3-8	4-0	4-3	4-6	4-9	5-0	5-3	5-6	5-9
400.00	3-11	4-3	4-6	4-10	5-1	5-5	5-8	6-0	6-3	6-7
425.00	4-5	4-9	5-1	5-5	5-9	6-1	6-5	6-9	7-1	7-5
450.00	5-0	5-4	5-9	6-1	6-6	6-10	7-3	7-7	7-11	8-3
475.00	5-6	5-11	6-4	6-10	7-3	7-8	8-1	8-5	8-10	9-3
500.00	6-2	6-7	7-1	7-6	8-0	8-6	8-11	9-4	9-10	10-3
525.00	6-9	7-3	7-9	8-4	8-10	9-4	9-10	10-4	10-10	11-3
550.00	7-5	8-0	8-7	9-1	9-8	10-3	10-10	11-4	11-10	12-5
575.00	8-1	8-9	9-4	10-0	10-7	11-2	11-10	12-5	13-0	13-6
600.00	8-10	9-6	10-2	10-10	11-6	12-2	12-10	13-6	14-1	14-9
625.00	9-7	10-4	11-0	11-9	12-6	13-3	13-11	14-8	15-4	16-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.25

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.466	0.28	2090	0.24	2400*
25	0	0	0	0.277	0.17	2061	0.15	2384
30	0	0	0	0.277	0.18	1944	0.15	2304
40	0	0	0	0.277	0.2	1712	0.16	2142
50	0	0	0	0.277	0.23	1482	0.18	1976
60	0	0	0	0.277	0.28	1256	0.19	1807
70	0	0	0	0.277	0.33	1039	0.21	1634
80	0	0	0	0.277	0.41	836	0.24	1460
90	0	0	0	0.277	0.52	660	0.27	1283
100	0	0	0	0.277	0.63	554	0.31	1107
110	0	0	0	0.277	0.68	512	0.37	934
120	0	0	0	0.277	0.73	472	0.45	770
130	0	0	0	0.277	0.8	435	0.55	624
167	0	0	0	0.277	1.06	328	0.97	357
212	0	0	0	0.277	1.4	248	1.3	266

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.466	1.11	2109	0.97	2400*
25	0	0	0	0.277	0.69	2000	0.59	2338
30	0	0	0	0.277	0.73	1889	0.61	2259
40	0	0	0	0.277	0.83	1673	0.66	2101
50	0	0	0	0.277	0.95	1466	0.71	1940
60	0	0	0	0.277	1.09	1271	0.78	1779
70	0	0	0	0.277	1.27	1094	0.86	1617
80	0	0	0	0.277	1.47	940	0.95	1456
90	0	0	0	0.277	1.71	811	1.07	1300
100	0	0	0	0.277	1.96	707	1.2	1150
110	0	0	0	0.277	2.2	630	1.37	1011
120	0	0	0	0.277	2.31	600	1.56	886
130	0	0	0	0.277	2.42	572	1.78	779
167	0	0	0	0.277	2.86	484	2.65	522
212	0	0	0	0.277	3.4	407	3.27	424

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.26

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.466	2.46	2135	2.19	2400*
25	0	0	0	0.277	1.63	1914	1.38	2265
30	0	0	0	0.277	1.72	1815	1.42	2189
40	0	0	0	0.277	1.92	1624	1.53	2038
50	0	0	0	0.277	2.15	1448	1.65	1887
60	0	0	0	0.277	2.42	1290	1.79	1738
70	0	0	0	0.277	2.71	1150	1.96	1593
80	0	0	0	0.277	3.03	1030	2.15	1452
90	0	0	0	0.277	3.36	929	2.36	1319
100	0	0	0	0.277	3.69	845	2.61	1196
110	0	0	0	0.277	4.02	775	2.87	1085
120	0	0	0	0.277	4.35	716	3.16	986
130	0	0	0	0.277	4.56	684	3.46	901
167	0	0	0	0.277	5.14	607	4.61	677
212	0	0	0	0.277	5.85	533	5.69	549

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.466	4.31	2165	3.89	2400*
25	0	0	0	0.277	3.04	1822	2.55	2172
30	0	0	0	0.277	3.19	1738	2.64	2101
40	0	0	0	0.277	3.51	1579	2.82	1962
50	0	0	0	0.277	3.86	1435	3.04	1825
60	0	0	0	0.277	4.24	1309	3.27	1693
70	0	0	0	0.277	4.63	1198	3.54	1566
80	0	0	0	0.277	5.03	1102	3.83	1448
90	0	0	0	0.277	5.44	1020	4.14	1338
100	0	0	0	0.277	5.84	949	4.48	1237
110	0	0	0	0.277	6.24	889	4.83	1147
120	0	0	0	0.277	6.63	836	5.2	1067
130	0	0	0	0.277	7.02	790	5.57	996
167	0	0	0	0.277	7.84	708	6.94	799
212	0	0	0	0.277	8.7	638	8.5	653

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.27

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.466	6.65	2194	6.08	2400*
25	0	0	0	0.277	4.98	1739	4.18	2069
30	0	0	0	0.277	5.19	1670	4.32	2005
40	0	0	0	0.277	5.62	1541	4.6	1881
50	0	0	0	0.277	6.07	1427	4.92	1762
60	0	0	0	0.277	6.53	1326	5.25	1648
70	0	0	0	0.277	7	1237	5.62	1542
80	0	0	0	0.277	7.47	1159	6	1444
90	0	0	0	0.277	7.94	1091	6.4	1353
100	0	0	0	0.277	8.41	1031	6.81	1271
110	0	0	0	0.277	8.86	978	7.24	1197
120	0	0	0	0.277	9.31	931	7.67	1130
130	0	0	0	0.277	9.75	889	8.1	1070
167	0	0	0	0.277	10.94	793	9.67	897
212	0	0	0	0.277	11.93	727	11.46	757

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.28

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10
175.00	0-5	0-6	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-2
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-3	1-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-4	0-5
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-8	0-8
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10	1-0	1-1
150.00	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-2	1-5	1-6
175.00	0-6	0-7	0-7	0-9	0-10	1-0	1-3	1-7	1-11	2-1
200.00	0-8	0-9	0-10	0-11	1-1	1-4	1-8	2-1	2-6	2-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.29

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-6
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
175.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1
200.00	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-1	1-2	1-4
225.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-9
250.00	0-11	0-11	1-0	1-1	1-3	1-4	1-6	1-8	1-11	2-2

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10
150.00	0-4	0-5	0-6	0-6	0-7	0-9	0-10	1-0	1-1	1-3
175.00	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-4	1-6	1-8
200.00	0-8	0-9	0-10	0-11	1-1	1-3	1-6	1-9	2-0	2-2
225.00	0-10	0-11	1-1	1-2	1-5	1-7	1-10	2-2	2-6	2-9
250.00	1-0	1-2	1-4	1-6	1-8	2-0	2-4	2-8	3-1	3-5

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STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.30

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9
175.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
200.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-1	1-2	1-3
225.00	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-7
250.00	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-0
275.00	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-5
300.00	1-4	1-5	1-6	1-8	1-10	1-11	2-2	2-4	2-7	2-10
325.00	1-7	1-8	1-10	1-11	2-1	2-4	2-6	2-9	3-1	3-4
350.00	1-10	1-11	2-1	2-3	2-5	2-8	2-11	3-3	3-7	3-11
375.00	2-1	2-3	2-5	2-7	2-10	3-1	3-4	3-8	4-1	4-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4
200.00	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-8	1-9
225.00	0-10	1-0	1-1	1-3	1-4	1-6	1-8	1-11	2-1	2-3
250.00	1-1	1-2	1-4	1-6	1-8	1-11	2-1	2-4	2-7	2-10
275.00	1-4	1-5	1-7	1-10	2-0	2-3	2-7	2-10	3-1	3-5
300.00	1-7	1-9	1-11	2-2	2-5	2-9	3-0	3-4	3-8	4-0
325.00	1-10	2-0	2-3	2-6	2-10	3-2	3-7	3-11	4-4	4-9
350.00	2-1	2-4	2-7	2-11	3-3	3-8	4-1	4-7	5-0	5-6
375.00	2-5	2-8	3-0	3-4	3-9	4-3	4-9	5-3	5-9	6-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.31

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-7	0-8	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2
225.00	0-9	0-10	0-11	1-0	1-0	1-1	1-3	1-4	1-5	1-6
250.00	1-0	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-9	1-11
275.00	1-2	1-3	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-3
300.00	1-5	1-6	1-7	1-8	1-10	2-0	2-2	2-4	2-6	2-9
325.00	1-8	1-9	1-10	2-0	2-2	2-4	2-6	2-9	2-11	3-2
350.00	1-11	2-0	2-2	2-4	2-6	2-9	2-11	3-2	3-5	3-8
375.00	2-2	2-4	2-6	2-8	2-11	3-1	3-4	3-8	3-11	4-3
400.00	2-6	2-8	2-10	3-0	3-3	3-6	3-10	4-2	4-6	4-10
425.00	2-9	3-0	3-2	3-5	3-8	4-0	4-4	4-8	5-1	5-5
450.00	3-2	3-4	3-7	3-10	4-2	4-6	4-10	5-3	5-8	6-1
475.00	3-6	3-9	4-0	4-3	4-7	5-0	5-5	5-10	6-4	6-10
500.00	3-10	4-1	4-5	4-9	5-1	5-6	6-0	6-6	7-0	7-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7
225.00	0-11	1-0	1-1	1-3	1-4	1-6	1-7	1-9	1-10	2-0
250.00	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-1	2-3	2-5
275.00	1-4	1-6	1-8	1-10	2-0	2-2	2-5	2-7	2-9	2-11
300.00	1-8	1-10	2-0	2-2	2-5	2-7	2-10	3-1	3-3	3-6
325.00	1-11	2-1	2-4	2-7	2-10	3-1	3-4	3-7	3-10	4-1
350.00	2-3	2-5	2-8	2-11	3-3	3-7	3-10	4-2	4-6	4-9
375.00	2-7	2-10	3-1	3-5	3-9	4-1	4-5	4-9	5-2	5-6
400.00	2-11	3-2	3-6	3-10	4-3	4-8	5-0	5-5	5-10	6-3
425.00	3-3	3-7	4-0	4-4	4-9	5-3	5-8	6-2	6-7	7-1
450.00	3-8	4-0	4-5	4-11	5-4	5-10	6-4	6-11	7-5	7-11
475.00	4-1	4-6	4-11	5-5	6-0	6-6	7-1	7-8	8-3	8-10
500.00	4-6	5-0	5-6	6-0	6-7	7-3	7-10	8-6	9-2	9-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.32

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-10
275.00	1-3	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-1	2-2
300.00	1-6	1-7	1-8	1-9	1-11	2-0	2-2	2-4	2-5	2-7
325.00	1-9	1-10	1-11	2-1	2-3	2-4	2-6	2-8	2-11	3-1
350.00	2-0	2-1	2-3	2-5	2-7	2-9	2-11	3-2	3-4	3-7
375.00	2-3	2-5	2-7	2-9	2-11	3-2	3-4	3-7	3-10	4-1
400.00	2-7	2-9	2-11	3-2	3-4	3-7	3-10	4-1	4-4	4-8
425.00	2-11	3-1	3-4	3-7	3-10	4-1	4-4	4-7	4-11	5-3
450.00	3-3	3-6	3-9	4-0	4-3	4-7	4-10	5-2	5-6	5-10
475.00	3-8	3-11	4-2	4-5	4-9	5-1	5-5	5-9	6-2	6-6
500.00	4-1	4-4	4-7	4-11	5-3	5-7	6-0	6-5	6-10	7-3
525.00	4-6	4-9	5-1	5-5	5-10	6-2	6-7	7-1	7-6	8-0
550.00	4-11	5-3	5-7	5-11	6-4	6-10	7-3	7-9	8-3	8-9
575.00	5-4	5-9	6-1	6-6	6-11	7-5	7-11	8-6	9-0	9-7
600.00	5-10	6-3	6-8	7-1	7-7	8-1	8-8	9-3	9-10	10-5
625.00	6-4	6-9	7-2	7-8	8-3	8-9	9-5	10-0	10-8	11-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-2	1-4	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-3
275.00	1-5	1-7	1-8	1-10	2-0	2-1	2-3	2-5	2-7	2-8
300.00	1-9	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2
325.00	2-0	2-2	2-4	2-7	2-9	2-11	3-2	3-4	3-7	3-9
350.00	2-4	2-6	2-9	3-0	3-2	3-5	3-8	3-11	4-1	4-4
375.00	2-8	2-11	3-2	3-5	3-8	3-11	4-2	4-6	4-9	5-0
400.00	3-1	3-4	3-7	3-11	4-2	4-6	4-9	5-1	5-5	5-8
425.00	3-5	3-9	4-1	4-5	4-9	5-1	5-5	5-9	6-1	6-5
450.00	3-10	4-2	4-7	4-11	5-3	5-8	6-1	6-5	6-10	7-2
475.00	4-4	4-8	5-1	5-6	5-11	6-4	6-9	7-2	7-7	8-0
500.00	4-9	5-2	5-7	6-1	6-6	7-0	7-6	7-11	8-5	8-10
525.00	5-3	5-9	6-2	6-8	7-2	7-9	8-3	8-9	9-3	9-9
550.00	5-9	6-3	6-10	7-4	7-11	8-6	9-1	9-7	10-2	10-9
575.00	6-4	6-10	7-5	8-0	8-8	9-3	9-11	10-6	11-1	11-9
600.00	6-11	7-6	8-1	8-9	9-5	10-1	10-9	11-5	12-1	12-9
625.00	7-6	8-1	8-9	9-6	10-3	10-11	11-8	12-5	13-2	13-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.33

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.577	0.84	860	0.72	1000*
20	0	0	0	0.277	0.29	1209	0.26	1338
30	0	0	0	0.277	0.35	994	0.3	1166
40	0	0	0	0.277	0.44	796	0.35	996
50	0	0	0	0.277	0.55	626	0.42	832
60	0	0	0	0.277	0.7	495	0.51	681
70	0	0	0	0.277	0.86	403	0.63	551
80	0	0	0	0.277	1.02	340	0.77	450
90	0	0	0	0.277	1.15	302	0.92	377
100	0	0	0	0.277	1.22	283	1.07	324
110	0	0	0	0.277	1.3	267	1.21	286
120	0	0	0	0.277	1.37	252	1.34	259
130	0	0	0	0.277	1.45	239	1.41	245
167	0	0	0	0.277	1.71	203	1.67	207
212	0	0	0	0.277	2	173	1.97	176

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.577	3.09	935	2.89	1000*
20	0	0	0	0.277	1.85	749	1.59	869
30	0	0	0	0.277	2.1	659	1.81	766
40	0	0	0	0.277	2.36	587	2.04	681
50	0	0	0	0.277	2.61	531	2.27	610
60	0	0	0	0.277	2.85	486	2.5	553
70	0	0	0	0.277	3.08	450	2.74	507
80	0	0	0	0.277	3.3	420	2.96	468
90	0	0	0	0.277	3.52	394	3.18	436
100	0	0	0	0.277	3.72	373	3.39	409
110	0	0	0	0.277	3.85	360	3.59	386
120	0	0	0	0.277	3.96	350	3.79	366
130	0	0	0	0.277	4.07	341	3.98	349
167	0	0	0	0.277	4.47	310	4.43	313
212	0	0	0	0.277	4.93	281	4.89	284

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.34

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.577	6.75	965	6.51	1000*
20	0	0	0	0.277	5.36	583	4.98	627
30	0	0	0	0.277	5.65	553	5.26	593
40	0	0	0	0.277	5.93	527	5.54	563
50	0	0	0	0.277	6.2	504	5.82	537
60	0	0	0	0.277	6.46	483	6.08	513
70	0	0	0	0.277	6.72	465	6.34	493
80	0	0	0	0.277	6.97	448	6.59	474
90	0	0	0	0.277	7.21	433	6.83	457
100	0	0	0	0.277	7.44	420	7.07	442
110	0	0	0	0.277	7.67	407	7.3	428
120	0	0	0	0.277	7.81	400	7.53	415
130	0	0	0	0.277	7.95	393	7.75	403
167	0	0	0	0.277	8.44	370	8.39	373
212	0	0	0	0.277	9.01	347	8.96	349

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.577	11.84	979	11.59	1000*
20	0	0	0	0.277	10.42	533	10.03	554
30	0	0	0	0.277	10.71	519	10.32	538
40	0	0	0	0.277	10.99	506	10.6	524
50	0	0	0	0.277	11.27	493	10.87	511
60	0	0	0	0.277	11.54	482	11.14	499
70	0	0	0	0.277	11.81	471	11.41	487
80	0	0	0	0.277	12.07	461	11.67	476
90	0	0	0	0.277	12.32	451	11.93	466
100	0	0	0	0.277	12.57	442	12.18	457
110	0	0	0	0.277	12.82	434	12.43	447
120	0	0	0	0.277	13.03	427	12.67	439
130	0	0	0	0.277	13.18	422	12.91	431
167	0	0	0	0.277	13.73	406	13.67	407
212	0	0	0	0.277	14.37	387	14.32	389

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.35

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.577	18.4	986	18.14	1000*
20	0	0	0	0.277	16.97	513	16.58	524
30	0	0	0	0.277	17.25	504	16.86	516
40	0	0	0	0.277	17.54	496	17.14	507
50	0	0	0	0.277	17.82	488	17.42	499
60	0	0	0	0.277	18.09	481	17.69	492
70	0	0	0	0.277	18.36	474	17.96	484
80	0	0	0	0.277	18.63	467	18.23	477
90	0	0	0	0.277	18.89	461	18.49	471
100	0	0	0	0.277	19.15	455	18.75	464
110	0	0	0	0.277	19.41	449	19.01	458
120	0	0	0	0.277	19.66	443	19.26	452
130	0	0	0	0.277	19.82	440	19.51	446
167	0	0	0	0.277	20.41	427	20.35	428
212	0	0	0	0.277	21.1	413	21.05	414

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.36

Stringing Sag Table Using Initial Sag									Ruling Span:	100.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8
100.00	0-3	0-4	0-4	0-5	0-6	0-8	0-9	0-11	1-1	1-3
125.00	0-5	0-6	0-7	0-8	0-10	1-0	1-2	1-5	1-8	1-11
150.00	0-7	0-8	0-9	0-11	1-2	1-5	1-9	2-1	2-5	2-9
175.00	0-10	0-11	1-1	1-3	1-7	1-11	2-4	2-10	3-3	3-8
200.00	1-0	1-2	1-5	1-8	2-0	2-6	3-1	3-8	4-3	4-10

Stringing Sag Table Using Final Sag									Ruling Span:	100.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9
100.00	0-3	0-4	0-5	0-7	0-8	0-10	1-0	1-2	1-3	1-4
125.00	0-5	0-7	0-8	0-10	1-1	1-4	1-7	1-10	1-11	2-0
150.00	0-8	0-9	1-0	1-3	1-7	1-11	2-3	2-7	2-9	2-11
175.00	0-11	1-1	1-4	1-8	2-2	2-8	3-1	3-6	3-9	4-0
200.00	1-2	1-5	1-9	2-3	2-10	3-5	4-1	4-7	4-11	5-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.37

Stringing Sag Table Using Initial Sag								Ruling Span:		200.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11
125.00	0-7	0-8	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
150.00	0-11	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-0
175.00	1-3	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9
200.00	1-7	1-10	2-0	2-3	2-6	2-9	3-0	3-2	3-5	3-7
225.00	2-0	2-3	2-7	2-10	3-2	3-6	3-9	4-0	4-3	4-7
250.00	2-6	2-10	3-2	3-7	3-11	4-3	4-8	5-0	5-4	5-7

Stringing Sag Table Using Final Sag								Ruling Span:		200.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0
125.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
150.00	1-0	1-2	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-2
175.00	1-5	1-7	1-10	2-0	2-2	2-4	2-6	2-8	2-10	2-11
200.00	1-10	2-1	2-4	2-7	2-10	3-1	3-4	3-6	3-9	3-10
225.00	2-4	2-8	3-0	3-4	3-7	3-11	4-2	4-5	4-9	4-10
250.00	2-11	3-3	3-8	4-1	4-5	4-10	5-2	5-6	5-10	6-0

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STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-8	1-9	1-10
175.00	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6
200.00	2-3	2-4	2-6	2-7	2-8	2-10	2-11	3-0	3-2	3-3
225.00	2-10	3-0	3-1	3-3	3-5	3-7	3-8	3-10	4-0	4-1
250.00	3-5	3-8	3-10	4-0	4-3	4-5	4-7	4-9	4-11	5-1
275.00	4-2	4-5	4-8	4-11	5-1	5-4	5-6	5-9	5-11	6-2
300.00	5-0	5-3	5-7	5-10	6-1	6-4	6-7	6-10	7-1	7-4
325.00	5-10	6-2	6-6	6-10	7-2	7-5	7-9	8-0	8-4	8-7
350.00	6-9	7-2	7-7	7-11	8-3	8-8	9-0	9-4	9-8	9-11
375.00	7-9	8-3	8-8	9-1	9-6	9-11	10-4	10-8	11-1	11-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-10	1-11
175.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
200.00	2-5	2-6	2-8	2-9	2-10	3-0	3-1	3-2	3-4	3-5
225.00	3-0	3-2	3-4	3-6	3-8	3-9	3-11	4-1	4-2	4-4
250.00	3-9	3-11	4-1	4-4	4-6	4-8	4-10	5-0	5-2	5-4
275.00	4-6	4-9	5-0	5-2	5-5	5-8	5-10	6-1	6-3	6-5
300.00	5-4	5-8	5-11	6-2	6-6	6-9	7-0	7-3	7-5	7-8
325.00	6-3	6-8	6-11	7-3	7-7	7-11	8-2	8-6	8-9	9-0
350.00	7-3	7-8	8-1	8-5	8-10	9-2	9-6	9-10	10-2	10-5
375.00	8-4	8-10	9-3	9-8	10-1	10-6	10-11	11-3	11-8	12-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.39

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-6	2-7	2-8	2-9	2-9	2-10	2-11	3-0	3-1	3-1
225.00	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
250.00	3-11	4-0	4-2	4-3	4-4	4-5	4-7	4-8	4-9	4-10
275.00	4-9	4-10	5-0	5-2	5-3	5-5	5-6	5-8	5-9	5-10
300.00	5-8	5-10	6-0	6-1	6-3	6-5	6-7	6-8	6-10	7-0
325.00	6-7	6-10	7-0	7-2	7-4	7-6	7-8	7-10	8-0	8-2
350.00	7-8	7-11	8-1	8-4	8-6	8-9	8-11	9-2	9-4	9-6
375.00	8-10	9-1	9-4	9-7	9-10	10-0	10-3	10-6	10-8	10-11
400.00	10-0	10-4	10-7	10-10	11-2	11-5	11-8	11-11	12-2	12-5
425.00	11-4	11-8	12-0	12-3	12-7	12-11	13-2	13-6	13-9	14-0
450.00	12-8	13-1	13-5	13-9	14-1	14-5	14-9	15-1	15-5	15-9
475.00	14-2	14-7	14-11	15-4	15-9	16-1	16-6	16-10	17-2	17-6
500.00	15-8	16-2	16-7	17-0	17-5	17-10	18-3	18-8	19-1	19-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-2
225.00	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1
250.00	4-1	4-2	4-3	4-5	4-6	4-7	4-9	4-10	4-11	5-0
275.00	4-11	5-1	5-2	5-4	5-5	5-7	5-8	5-10	5-11	6-1
300.00	5-10	6-0	6-2	6-4	6-6	6-8	6-9	6-11	7-1	7-2
325.00	6-11	7-1	7-3	7-5	7-7	7-9	8-0	8-2	8-4	8-6
350.00	8-0	8-2	8-5	8-7	8-10	9-0	9-3	9-5	9-7	9-10
375.00	9-2	9-5	9-8	9-11	10-2	10-4	10-7	10-10	11-1	11-3
400.00	10-5	10-8	11-0	11-3	11-6	11-10	12-1	12-4	12-7	12-10
425.00	11-9	12-1	12-5	12-9	13-0	13-4	13-7	13-11	14-2	14-6
450.00	13-2	13-7	13-11	14-3	14-7	14-11	15-3	15-7	15-11	16-3
475.00	14-8	15-1	15-6	15-11	16-3	16-8	17-0	17-5	17-9	18-1
500.00	16-3	16-9	17-2	17-7	18-0	18-5	18-10	19-3	19-8	20-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.40

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-2	4-3	4-3	4-4	4-5	4-6	4-7	4-7	4-8	4-9
275.00	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9
300.00	6-0	6-1	6-2	6-3	6-4	6-6	6-7	6-8	6-9	6-10
325.00	7-0	7-1	7-3	7-4	7-6	7-7	7-8	7-10	7-11	8-0
350.00	8-1	8-3	8-5	8-6	8-8	8-10	8-11	9-1	9-2	9-4
375.00	9-4	9-6	9-8	9-9	9-11	10-1	10-3	10-5	10-6	10-8
400.00	10-7	10-9	11-0	11-2	11-4	11-6	11-8	11-10	12-0	12-2
425.00	12-0	12-2	12-5	12-7	12-9	13-0	13-2	13-4	13-6	13-9
450.00	13-5	13-8	13-11	14-1	14-4	14-7	14-9	15-0	15-2	15-5
475.00	15-0	15-3	15-6	15-9	16-0	16-2	16-5	16-8	16-11	17-2
500.00	16-7	16-10	17-2	17-5	17-8	18-0	18-3	18-6	18-9	19-0
525.00	18-3	18-7	18-11	19-2	19-6	19-10	20-1	20-5	20-8	20-11
550.00	20-1	20-5	20-9	21-1	21-5	21-9	22-1	22-5	22-8	23-0
575.00	21-11	22-4	22-8	23-1	23-5	23-9	24-1	24-6	24-10	25-2
600.00	23-11	24-4	24-8	25-1	25-6	25-11	26-3	26-8	27-0	27-5
625.00	25-11	26-4	26-10	27-3	27-8	28-1	28-6	28-11	29-4	29-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-3	4-4	4-5	4-5	4-6	4-7	4-8	4-9	4-9	4-10
275.00	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-8	5-9	5-10
300.00	6-1	6-2	6-4	6-5	6-6	6-7	6-8	6-10	6-11	7-0
325.00	7-2	7-3	7-5	7-6	7-8	7-9	7-10	8-0	8-1	8-2
350.00	8-4	8-5	8-7	8-9	8-10	9-0	9-1	9-3	9-5	9-6
375.00	9-6	9-8	9-10	10-0	10-2	10-4	10-6	10-7	10-9	10-11
400.00	10-10	11-0	11-3	11-5	11-7	11-9	11-11	12-1	12-3	12-5
425.00	12-3	12-6	12-8	12-10	13-1	13-3	13-5	13-8	13-10	14-0
450.00	13-9	14-0	14-2	14-5	14-8	14-10	15-1	15-4	15-6	15-9
475.00	15-4	15-7	15-10	16-1	16-4	16-7	16-10	17-1	17-3	17-6
500.00	17-0	17-3	17-6	17-10	18-1	18-4	18-8	18-11	19-2	19-5
525.00	18-9	19-0	19-4	19-8	19-11	20-3	20-7	20-10	21-1	21-5
550.00	20-6	20-11	21-3	21-7	21-11	22-3	22-7	22-10	23-2	23-6
575.00	22-5	22-10	23-2	23-7	23-11	24-4	24-8	25-0	25-4	25-8
600.00	24-5	24-10	25-3	25-8	26-1	26-6	26-10	27-3	27-7	28-0
625.00	26-6	27-0	27-5	27-10	28-4	28-9	29-2	29-7	30-0	30-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.41

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.577	0.6	1212	0.48	1500*
20	0	0	0	0.277	0.2	1740	0.18	1932
30	0	0	0	0.277	0.23	1510	0.2	1764
40	0	0	0	0.277	0.27	1284	0.22	1593
50	0	0	0	0.277	0.33	1065	0.24	1421
60	0	0	0	0.277	0.4	860	0.28	1246
70	0	0	0	0.277	0.51	680	0.32	1073
80	0	0	0	0.277	0.65	535	0.38	903
90	0	0	0	0.277	0.8	431	0.47	743
100	0	0	0	0.277	0.88	395	0.58	602
110	0	0	0	0.277	0.95	366	0.71	488
120	0	0	0	0.277	1.02	339	0.86	404
130	0	0	0	0.277	1.1	316	1.01	343
167	0	0	0	0.277	1.38	252	1.32	263
212	0	0	0	0.277	1.7	204	1.64	212

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.577	2.18	1325	1.93	1500*
20	0	0	0	0.277	0.94	1471	0.82	1684
30	0	0	0	0.277	1.09	1276	0.91	1526
40	0	0	0	0.277	1.26	1098	1.01	1370
50	0	0	0	0.277	1.47	943	1.14	1219
60	0	0	0	0.277	1.7	814	1.29	1076
70	0	0	0	0.277	1.95	710	1.46	946
80	0	0	0	0.277	2.21	628	1.67	831
90	0	0	0	0.277	2.46	563	1.89	733
100	0	0	0	0.277	2.71	512	2.12	653
110	0	0	0	0.277	2.91	477	2.36	587
120	0	0	0	0.277	3.03	458	2.6	534
130	0	0	0	0.277	3.15	440	2.83	490
167	0	0	0	0.277	3.59	386	3.51	395
212	0	0	0	0.277	4.1	338	4.02	345

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.577	4.67	1392	4.33	1500*
20	0	0	0	0.277	2.69	1157	2.31	1350
30	0	0	0	0.277	3.01	1036	2.54	1227
40	0	0	0	0.277	3.34	934	2.8	1114
50	0	0	0	0.277	3.67	849	3.08	1014
60	0	0	0	0.277	4.01	778	3.37	925
70	0	0	0	0.277	4.34	719	3.67	849
80	0	0	0	0.277	4.66	670	3.98	784
90	0	0	0	0.277	4.97	628	4.29	727
100	0	0	0	0.277	5.27	592	4.59	679
110	0	0	0	0.277	5.56	561	4.89	638
120	0	0	0	0.277	5.85	534	5.18	602
130	0	0	0	0.277	6.01	519	5.47	571
167	0	0	0	0.277	6.57	475	6.45	484
212	0	0	0	0.277	7.23	432	7.15	437

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.577	8.09	1430	7.71	1500*
20	0	0	0	0.277	5.76	962	5.13	1081
30	0	0	0	0.277	6.17	899	5.49	1009
40	0	0	0	0.277	6.56	845	5.86	946
50	0	0	0	0.277	6.95	799	6.23	891
60	0	0	0	0.277	7.32	758	6.59	841
70	0	0	0	0.277	7.69	721	6.95	798
80	0	0	0	0.277	8.05	690	7.31	759
90	0	0	0	0.277	8.4	661	7.66	725
100	0	0	0	0.277	8.73	636	8	694
110	0	0	0	0.277	9.06	612	8.33	666
120	0	0	0	0.277	9.39	592	8.66	641
130	0	0	0	0.277	9.7	573	8.98	618
167	0	0	0	0.277	10.37	536	10.11	550
212	0	0	0	0.277	11.14	499	11.05	503

* Design Condition

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SHEET 43 OF 129

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.43

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.577	12.47	1451	12.06	1500*
20	0	0	0	0.277	10	867	9.27	935
30	0	0	0	0.277	10.42	832	9.68	896
40	0	0	0	0.277	10.84	800	10.08	860
50	0	0	0	0.277	11.24	772	10.48	827
60	0	0	0	0.277	11.64	745	10.87	798
70	0	0	0	0.277	12.02	722	11.25	771
80	0	0	0	0.277	12.4	700	11.63	746
90	0	0	0	0.277	12.77	680	12	723
100	0	0	0	0.277	13.13	661	12.37	702
110	0	0	0	0.277	13.49	644	12.72	682
120	0	0	0	0.277	13.83	628	13.07	664
130	0	0	0	0.277	14.17	613	13.42	647
167	0	0	0	0.277	15.02	578	14.64	593
212	0	0	0	0.277	15.88	547	15.8	550

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.44

Stringing Sag Table Using Initial Sag								Ruling Span:	100
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-5
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-6	0-7	0-9
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-1
150.00	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-1	1-4	1-7
175.00	0-7	0-7	0-8	0-9	0-10	1-0	1-2	1-5	1-9	2-2
200.00	0-9	0-9	0-10	1-0	1-1	1-3	1-6	1-10	2-4	2-10

Stringing Sag Table Using Final Sag								Ruling Span:	100
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6
100.00	0-2	0-3	0-3	0-4	0-5	0-6	0-8	0-10	0-11	0-11
125.00	0-4	0-4	0-5	0-6	0-8	0-10	1-0	1-3	1-4	1-6
150.00	0-5	0-6	0-7	0-9	0-11	1-2	1-5	1-10	2-0	2-2
175.00	0-7	0-8	0-10	1-0	1-3	1-7	2-0	2-6	2-8	2-11
200.00	0-10	0-11	1-1	1-4	1-7	2-0	2-7	3-3	3-6	3-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.45

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7
125.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11
150.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-4
175.00	0-8	0-8	0-9	0-10	1-0	1-1	1-3	1-5	1-8	1-10
200.00	0-10	0-11	1-0	1-2	1-3	1-6	1-8	1-11	2-1	2-4
225.00	1-0	1-2	1-3	1-5	1-8	1-10	2-1	2-5	2-8	3-0
250.00	1-3	1-5	1-7	1-9	2-0	2-3	2-7	2-11	3-4	3-8

Stringing Sag Table Using Final Sag — Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-7	0-8	0-9
125.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-2
150.00	0-6	0-7	0-9	0-10	0-11	1-1	1-3	1-5	1-6	1-8
175.00	0-9	0-10	1-0	1-1	1-4	1-6	1-8	1-11	2-1	2-3
200.00	0-11	1-1	1-3	1-6	1-8	1-11	2-2	2-6	2-8	2-11
225.00	1-2	1-4	1-7	1-10	2-2	2-6	2-10	3-1	3-5	3-8
250.00	1-6	1-8	2-0	2-4	2-8	3-1	3-5	3-10	4-3	4-7

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SHEET 46 OF 129

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.46

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
175.00	0-9	0-10	0-11	1-1	1-2	1-3	1-4	1-6	1-7	1-8
200.00	1-0	1-2	1-3	1-4	1-6	1-8	1-9	1-11	2-0	2-2
225.00	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9
250.00	1-7	1-9	1-11	2-2	2-4	2-7	2-9	3-0	3-2	3-5
275.00	1-11	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-10	4-1
300.00	2-4	2-6	2-10	3-1	3-4	3-8	4-0	4-3	4-7	4-11
325.00	2-9	3-0	3-3	3-7	3-11	4-4	4-8	5-0	5-5	5-9
350.00	3-2	3-6	3-10	4-2	4-7	5-0	5-5	5-10	6-3	6-8
375.00	3-7	4-0	4-4	4-10	5-3	5-9	6-3	6-8	7-2	7-8

Stringing Sag Table Using Final Sag — Ruling Span: 300

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
175.00	0-11	1-0	1-2	1-3	1-4	1-6	1-7	1-8	1-10	1-11
200.00	1-2	1-4	1-6	1-8	1-9	1-11	2-1	2-2	2-4	2-6
225.00	1-6	1-8	1-11	2-1	2-3	2-5	2-7	2-10	3-0	3-2
250.00	1-10	2-1	2-4	2-7	2-9	3-0	3-3	3-5	3-8	3-10
275.00	2-3	2-6	2-10	3-1	3-4	3-8	3-11	4-2	4-5	4-8
300.00	2-8	3-0	3-4	3-8	4-0	4-4	4-8	5-0	5-3	5-7
325.00	3-2	3-6	3-11	4-4	4-8	5-1	5-6	5-10	6-2	6-6
350.00	3-8	4-1	4-7	5-0	5-5	5-11	6-4	6-9	7-2	7-7
375.00	4-3	4-8	5-3	5-9	6-3	6-9	7-3	7-9	8-3	8-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.47

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-3	1-4	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1
225.00	1-7	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-8
250.00	2-0	2-2	2-3	2-5	2-7	2-9	2-10	3-0	3-1	3-3
275.00	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9	3-11
300.00	2-11	3-1	3-4	3-6	3-8	3-11	4-1	4-4	4-6	4-8
325.00	3-5	3-8	3-10	4-1	4-4	4-7	4-10	5-1	5-3	5-6
350.00	3-11	4-2	4-6	4-9	5-1	5-4	5-7	5-10	6-1	6-5
375.00	4-6	4-10	5-2	5-6	5-10	6-1	6-5	6-9	7-0	7-4
400.00	5-2	5-6	5-10	6-3	6-7	6-11	7-4	7-8	8-0	8-4
425.00	5-9	6-2	6-7	7-0	7-5	7-10	8-3	8-8	9-0	9-5
450.00	6-6	6-11	7-5	7-11	8-4	8-10	9-3	9-8	10-2	10-7
475.00	7-3	7-9	8-3	8-9	9-4	9-10	10-4	10-10	11-3	11-9
500.00	8-0	8-7	9-2	9-9	10-4	10-10	11-5	12-0	12-6	13-0

Stringing Sag Table Using Final Sag — Ruling Span: 400

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3
225.00	1-10	1-11	2-1	2-2	2-4	2-5	2-7	2-8	2-9	2-10
250.00	2-3	2-5	2-7	2-9	2-10	3-0	3-2	3-3	3-5	3-6
275.00	2-9	2-11	3-1	3-3	3-6	3-8	3-10	4-0	4-2	4-3
300.00	3-3	3-6	3-8	3-11	4-1	4-4	4-6	4-9	4-11	5-1
325.00	3-10	4-1	4-4	4-7	4-10	5-1	5-4	5-6	5-9	6-0
350.00	4-5	4-9	5-0	5-4	5-7	5-11	6-2	6-5	6-8	6-11
375.00	5-1	5-5	5-9	6-1	6-5	6-9	7-1	7-5	7-8	8-0
400.00	5-9	6-2	6-7	6-11	7-4	7-8	8-1	8-5	8-9	9-1
425.00	6-6	7-0	7-5	7-10	8-3	8-8	9-1	9-6	9-10	10-3
450.00	7-4	7-10	8-4	8-10	9-3	9-9	10-2	10-8	11-1	11-6
475.00	8-2	8-8	9-3	9-10	10-4	10-10	11-4	11-10	12-4	12-9
500.00	9-0	9-8	10-3	10-10	11-5	12-0	12-7	13-1	13-8	14-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.48

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Stringing Sag Table Using Initial Sag — Ruling Span: 500

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-4	2-5	2-6	2-7	2-9	2-10	2-11	3-0	3-1	3-2
275.00	2-10	2-11	3-1	3-2	3-3	3-5	3-6	3-8	3-9	3-10
300.00	3-4	3-6	3-8	3-9	3-11	4-1	4-2	4-4	4-5	4-7
325.00	3-11	4-1	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-4
350.00	4-6	4-9	4-11	5-2	5-4	5-6	5-8	5-11	6-1	6-3
375.00	5-3	5-5	5-8	5-11	6-1	6-4	6-6	6-9	6-11	7-2
400.00	5-11	6-2	6-5	6-8	6-11	7-2	7-5	7-8	7-11	8-2
425.00	6-8	7-0	7-3	7-7	7-10	8-2	8-5	8-8	8-11	9-2
450.00	7-6	7-10	8-2	8-6	8-10	9-1	9-5	9-9	10-0	10-4
475.00	8-4	8-9	9-1	9-5	9-10	10-2	10-6	10-10	11-2	11-6
500.00	9-3	9-8	10-1	10-6	10-10	11-3	11-8	12-0	12-4	12-9
525.00	10-3	10-8	11-1	11-7	12-0	12-5	12-10	13-3	13-8	14-0
550.00	11-3	11-9	12-2	12-8	13-2	13-7	14-1	14-6	15-0	15-5
575.00	12-3	12-10	13-4	13-10	14-5	14-11	15-5	15-11	16-4	16-10
600.00	13-4	13-11	14-6	15-1	15-8	16-3	16-9	17-3	17-10	18-4
625.00	14-6	15-2	15-9	16-5	17-0	17-7	18-2	18-9	19-4	19-11

Stringing Sag Table Using Final Sag — Ruling Span: 500

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-6	2-7	2-8	2-10	2-11	3-0	3-1	3-2	3-3	3-4
275.00	3-0	3-2	3-3	3-5	3-6	3-8	3-9	3-10	4-0	4-1
300.00	3-7	3-9	3-11	4-1	4-2	4-4	4-6	4-7	4-9	4-10
325.00	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-8
350.00	4-11	5-1	5-4	5-6	5-8	5-11	6-1	6-3	6-5	6-7
375.00	5-7	5-10	6-1	6-4	6-7	6-9	7-0	7-2	7-5	7-7
400.00	6-5	6-8	6-11	7-2	7-5	7-8	7-11	8-2	8-5	8-8
425.00	7-3	7-6	7-10	8-1	8-5	8-8	8-11	9-3	9-6	9-9
450.00	8-1	8-5	8-9	9-1	9-5	9-9	10-1	10-4	10-8	10-11
475.00	9-0	9-5	9-9	10-2	10-6	10-10	11-2	11-6	11-10	12-2
500.00	10-0	10-5	10-10	11-3	11-8	12-0	12-5	12-9	13-2	13-6
525.00	11-0	11-6	11-11	12-5	12-10	13-3	13-8	14-1	14-6	14-10
550.00	12-1	12-7	13-1	13-7	14-1	14-7	15-0	15-5	15-11	16-4
575.00	13-3	13-9	14-4	14-10	15-5	15-11	16-5	16-11	17-4	17-10
600.00	14-5	15-0	15-7	16-2	16-9	17-4	17-10	18-5	18-11	19-5
625.00	15-8	16-4	16-11	17-7	18-2	18-10	19-5	20-0	20-6	21-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.577	0.46	1560	0.36	2000*
20	0	0	0	0.277	0.16	2164	0.14	2445
30	0	0	0	0.277	0.18	1929	0.15	2285
40	0	0	0	0.277	0.2	1697	0.16	2123
50	0	0	0	0.277	0.24	1467	0.18	1957
60	0	0	0	0.277	0.28	1242	0.19	1787
70	0	0	0	0.277	0.34	1026	0.21	1615
80	0	0	0	0.277	0.42	824	0.24	1440
90	0	0	0	0.277	0.53	650	0.27	1264
100	0	0	0	0.277	0.63	548	0.32	1088
110	0	0	0	0.277	0.68	506	0.38	916
120	0	0	0	0.277	0.74	466	0.46	753
130	0	0	0	0.277	0.8	430	0.57	609
167	0	0	0	0.277	1.07	325	0.98	353
212	0	0	0	0.277	1.41	246	1.32	263

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.577	1.72	1675	1.44	2000*
20	0	0	0	0.277	0.68	2022	0.6	2310
30	0	0	0	0.277	0.77	1802	0.64	2153
40	0	0	0	0.277	0.87	1589	0.69	1993
50	0	0	0	0.277	1	1386	0.76	1832
60	0	0	0	0.277	1.16	1198	0.83	1671
70	0	0	0	0.277	1.35	1029	0.92	1510
80	0	0	0	0.277	1.57	885	1.02	1352
90	0	0	0	0.277	1.81	767	1.15	1200
100	0	0	0	0.277	2.06	673	1.31	1057
110	0	0	0	0.277	2.3	604	1.49	927
120	0	0	0	0.277	2.41	575	1.7	814
130	0	0	0	0.277	2.52	549	1.93	718
167	0	0	0	0.277	2.97	467	2.8	494
212	0	0	0	0.277	3.51	396	3.38	410

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.577	3.66	1774	3.25	2000*
20	0	0	0	0.277	1.73	1806	1.49	2098
30	0	0	0	0.277	1.93	1616	1.6	1948
40	0	0	0	0.277	2.16	1441	1.73	1799
50	0	0	0	0.277	2.43	1283	1.89	1653
60	0	0	0	0.277	2.72	1144	2.06	1511
70	0	0	0	0.277	3.04	1025	2.27	1375
80	0	0	0	0.277	3.37	925	2.5	1248
90	0	0	0	0.277	3.71	841	2.75	1132
100	0	0	0	0.277	4.04	772	3.03	1028
110	0	0	0	0.277	4.37	714	3.33	937
120	0	0	0	0.277	4.69	665	3.63	858
130	0	0	0	0.277	4.89	638	3.94	791
167	0	0	0	0.277	5.47	570	5.07	616
212	0	0	0	0.277	6.18	505	6.04	517

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.577	6.28	1842	5.78	2000*
20	0	0	0	0.277	3.53	1569	3.01	1840
30	0	0	0	0.277	3.88	1427	3.24	1709
40	0	0	0	0.277	4.26	1301	3.5	1583
50	0	0	0	0.277	4.65	1191	3.79	1464
60	0	0	0	0.277	5.06	1097	4.1	1353
70	0	0	0	0.277	5.46	1015	4.43	1252
80	0	0	0	0.277	5.87	945	4.77	1161
90	0	0	0	0.277	6.27	885	5.14	1080
100	0	0	0	0.277	6.66	833	5.5	1007
110	0	0	0	0.277	7.04	788	5.88	944
120	0	0	0	0.277	7.42	748	6.25	888
130	0	0	0	0.277	7.78	713	6.62	838
167	0	0	0	0.277	8.58	647	7.93	700
212	0	0	0	0.277	9.42	590	9.27	599

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.51

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.577	9.58	1887	9.03	2000*
20	0	0	0	0.277	6.29	1377	5.44	1591
30	0	0	0	0.277	6.76	1282	5.81	1490
40	0	0	0	0.277	7.23	1198	6.2	1397
50	0	0	0	0.277	7.7	1125	6.6	1312
60	0	0	0	0.277	8.17	1061	7.02	1234
70	0	0	0	0.277	8.63	1004	7.44	1164
80	0	0	0	0.277	9.08	954	7.87	1101
90	0	0	0	0.277	9.52	910	8.3	1045
100	0	0	0	0.277	9.96	871	8.72	994
110	0	0	0	0.277	10.38	835	9.14	948
120	0	0	0	0.277	10.8	803	9.56	907
130	0	0	0	0.277	11.2	774	9.97	870
167	0	0	0	0.277	12.3	706	11.43	759
212	0	0	0	0.277	13.25	655	13.08	664

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.52

Stringing Sag Table Using Initial Sag								Ruling Span:		100
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-9	0-10
175.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-2
200.00	0-7	0-7	0-8	0-8	0-9	0-10	1-0	1-1	1-3	1-6

Stringing Sag Table Using Final Sag								Ruling Span:		100
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-4	0-5
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-8	0-8
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10	1-0	1-1
150.00	0-4	0-5	0-6	0-6	0-8	0-9	0-11	1-2	1-5	1-6
175.00	0-6	0-7	0-7	0-9	0-10	1-0	1-3	1-8	1-11	2-1
200.00	0-8	0-9	0-10	0-11	1-1	1-4	1-8	2-2	2-6	2-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.53

Stringing Sag Table Using Initial Sag								Ruling Span:		200
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7
150.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
175.00	0-6	0-6	0-6	0-7	0-8	0-8	0-9	0-11	1-0	1-2
200.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6
225.00	0-9	0-10	0-11	0-11	1-1	1-2	1-4	1-6	1-8	1-11
250.00	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-10	2-1	2-4

Stringing Sag Table Using Final Sag								Ruling Span:		200
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-5	0-6	0-7
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10	0-11
150.00	0-5	0-5	0-6	0-7	0-8	0-9	0-11	1-0	1-2	1-3
175.00	0-6	0-7	0-8	0-9	0-11	1-0	1-2	1-5	1-7	1-9
200.00	0-8	0-9	0-10	1-0	1-2	1-4	1-7	1-10	2-1	2-4
225.00	0-10	1-0	1-1	1-3	1-6	1-8	2-0	2-3	2-7	2-11
250.00	1-1	1-2	1-4	1-7	1-10	2-1	2-5	2-10	3-3	3-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.54

Stringing Sag Table Using Initial Sag — Ruling Span: 300

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
175.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2
200.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6
225.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-8	1-10
250.00	1-0	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2-4
275.00	1-3	1-4	1-5	1-7	1-9	1-11	2-1	2-4	2-7	2-10
300.00	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-9	3-0	3-4
325.00	1-9	1-11	2-0	2-3	2-5	2-8	2-11	3-3	3-7	3-11
350.00	2-0	2-2	2-4	2-7	2-10	3-1	3-5	3-9	4-2	4-6
375.00	2-4	2-6	2-8	2-11	3-3	3-7	3-11	4-4	4-9	5-2

Stringing Sag Table Using Final Sag — Ruling Span: 300

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
175.00	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4	1-6
200.00	0-9	0-10	1-0	1-1	1-3	1-4	1-6	1-8	1-10	1-11
225.00	1-0	1-1	1-3	1-4	1-6	1-9	1-11	2-1	2-3	2-5
250.00	1-2	1-4	1-6	1-8	1-11	2-1	2-4	2-7	2-10	3-0
275.00	1-5	1-7	1-10	2-0	2-3	2-7	2-10	3-1	3-5	3-8
300.00	1-9	1-11	2-2	2-5	2-9	3-0	3-4	3-8	4-0	4-4
325.00	2-0	2-3	2-6	2-10	3-2	3-7	3-11	4-4	4-9	5-2
350.00	2-4	2-7	2-11	3-4	3-9	4-2	4-7	5-1	5-6	5-11
375.00	2-8	3-0	3-5	3-10	4-3	4-9	5-3	5-9	6-4	6-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.55

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Stringing Sag Table Using Initial Sag — Ruling Span: 400

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-5	1-6
225.00	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-7	1-9	1-10
250.00	1-2	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-2	2-4
275.00	1-5	1-6	1-8	1-9	1-11	2-1	2-3	2-5	2-7	2-9
300.00	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-11	3-1	3-4
325.00	2-0	2-2	2-4	2-6	2-8	2-11	3-2	3-5	3-8	3-11
350.00	2-4	2-6	2-8	2-11	3-2	3-5	3-8	3-11	4-3	4-6
375.00	2-8	2-10	3-1	3-4	3-7	3-11	4-2	4-6	4-10	5-2
400.00	3-0	3-3	3-6	3-9	4-1	4-5	4-9	5-2	5-6	5-11
425.00	3-5	3-8	3-11	4-3	4-7	5-0	5-5	5-10	6-3	6-8
450.00	3-10	4-1	4-5	4-10	5-2	5-7	6-1	6-6	7-0	7-5
475.00	4-3	4-7	4-11	5-4	5-9	6-3	6-9	7-3	7-9	8-3
500.00	4-8	5-1	5-6	5-11	6-5	6-11	7-6	8-0	8-7	9-2

Stringing Sag Table Using Final Sag — Ruling Span: 400

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8	1-9
225.00	1-1	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-3
250.00	1-5	1-6	1-8	1-10	2-0	2-2	2-3	2-5	2-7	2-9
275.00	1-8	1-10	2-0	2-2	2-5	2-7	2-9	3-0	3-2	3-4
300.00	2-0	2-2	2-5	2-7	2-10	3-1	3-4	3-6	3-9	4-0
325.00	2-4	2-7	2-10	3-1	3-4	3-7	3-10	4-2	4-5	4-8
350.00	2-8	3-0	3-3	3-7	3-10	4-2	4-6	4-10	5-1	5-5
375.00	3-1	3-5	3-9	4-1	4-5	4-10	5-2	5-6	5-10	6-2
400.00	3-6	3-11	4-3	4-8	5-1	5-6	5-10	6-3	6-8	7-1
425.00	4-0	4-5	4-10	5-3	5-8	6-2	6-7	7-1	7-6	7-11
450.00	4-6	4-11	5-5	5-11	6-5	6-11	7-5	7-11	8-5	8-11
475.00	5-0	5-6	6-0	6-7	7-2	7-8	8-3	8-10	9-5	9-11
500.00	5-6	6-1	6-8	7-3	7-11	8-6	9-2	9-10	10-5	11-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.56

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Stringing Sag Table Using Initial Sag — Ruling Span: 500

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-4	1-5	1-7	1-8	1-9	1-10	2-0	2-1	2-2	2-3
275.00	1-8	1-9	1-11	2-0	2-1	2-3	2-5	2-6	2-8	2-9
300.00	2-0	2-1	2-3	2-5	2-6	2-8	2-10	3-0	3-2	3-3
325.00	2-4	2-5	2-7	2-9	3-0	3-2	3-4	3-6	3-8	3-10
350.00	2-8	2-10	3-0	3-3	3-5	3-8	3-10	4-1	4-3	4-6
375.00	3-1	3-3	3-6	3-9	3-11	4-2	4-5	4-8	4-11	5-2
400.00	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-4	5-7	5-10
425.00	3-11	4-2	4-6	4-9	5-1	5-5	5-8	6-0	6-4	6-7
450.00	4-5	4-8	5-0	5-4	5-8	6-0	6-4	6-9	7-1	7-5
475.00	4-11	5-3	5-7	6-0	6-4	6-9	7-1	7-6	7-10	8-3
500.00	5-5	5-10	6-2	6-7	7-0	7-5	7-10	8-4	8-9	9-2
525.00	6-0	6-5	6-10	7-3	7-9	8-2	8-8	9-2	9-7	10-1
550.00	6-7	7-0	7-6	8-0	8-6	9-0	9-6	10-0	10-7	11-1
575.00	7-2	7-8	8-2	8-9	9-3	9-10	10-5	11-0	11-6	12-1
600.00	7-10	8-4	8-11	9-6	10-1	10-9	11-4	11-11	12-7	13-2
625.00	8-6	9-1	9-8	10-4	11-0	11-8	12-4	13-0	13-8	14-3

Stringing Sag Table Using Final Sag — Ruling Span: 500

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-5	2-6	2-7
275.00	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-2
300.00	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9
325.00	2-8	2-10	3-1	3-3	3-5	3-8	3-10	4-0	4-2	4-5
350.00	3-1	3-4	3-7	3-9	4-0	4-3	4-5	4-8	4-11	5-1
375.00	3-6	3-10	4-1	4-4	4-7	4-10	5-1	5-4	5-7	5-10
400.00	4-0	4-4	4-8	4-11	5-3	5-6	5-10	6-1	6-4	6-8
425.00	4-7	4-11	5-3	5-7	5-11	6-3	6-7	6-11	7-2	7-6
450.00	5-1	5-6	5-10	6-3	6-7	7-0	7-4	7-9	8-1	8-5
475.00	5-8	6-1	6-6	6-11	7-4	7-9	8-2	8-7	9-0	9-4
500.00	6-4	6-9	7-3	7-8	8-2	8-8	9-1	9-6	10-0	10-5
525.00	6-11	7-5	8-0	8-6	9-0	9-6	10-0	10-6	11-0	11-5
550.00	7-7	8-2	8-9	9-4	9-11	10-5	11-0	11-6	12-1	12-7
575.00	8-4	8-11	9-7	10-2	10-10	11-5	12-0	12-7	13-2	13-9
600.00	9-1	9-9	10-5	11-1	11-9	12-5	13-1	13-9	14-4	14-11
625.00	9-10	10-7	11-4	12-0	12-9	13-6	14-2	14-11	15-7	16-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.57

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.577	0.39	1844	0.3	2400*
20	0	0	0	0.277	0.14	2480	0.12	2837
30	0	0	0	0.277	0.15	2244	0.13	2685
40	0	0	0	0.277	0.17	2010	0.14	2530
50	0	0	0	0.277	0.19	1777	0.15	2371
60	0	0	0	0.277	0.22	1546	0.16	2208
70	0	0	0	0.277	0.26	1319	0.17	2042
80	0	0	0	0.277	0.32	1099	0.18	1872
90	0	0	0	0.277	0.39	891	0.2	1700
100	0	0	0	0.277	0.49	706	0.23	1524
110	0	0	0	0.277	0.54	647	0.26	1347
120	0	0	0	0.277	0.58	600	0.3	1169
130	0	0	0	0.277	0.62	556	0.35	993
167	0	0	0	0.277	0.84	413	0.74	467
212	0	0	0	0.277	1.17	297	1.05	331

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.577	1.48	1948	1.2	2400*
20	0	0	0	0.277	0.58	2388	0.5	2748
30	0	0	0	0.277	0.64	2161	0.53	2597
40	0	0	0	0.277	0.71	1938	0.57	2442
50	0	0	0	0.277	0.81	1720	0.61	2285
60	0	0	0	0.277	0.92	1511	0.65	2126
70	0	0	0	0.277	1.06	1313	0.71	1964
80	0	0	0	0.277	1.22	1131	0.77	1801
90	0	0	0	0.277	1.43	972	0.85	1638
100	0	0	0	0.277	1.65	837	0.94	1476
110	0	0	0	0.277	1.9	728	1.05	1318
120	0	0	0	0.277	2.01	688	1.19	1166
130	0	0	0	0.277	2.12	654	1.35	1024
167	0	0	0	0.277	2.53	547	2.16	642
212	0	0	0	0.277	3.07	451	2.9	477

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.58

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.577	3.16	2054	2.71	2400*
20	0	0	0	0.277	1.39	2242	1.2	2603
30	0	0	0	0.277	1.53	2031	1.27	2454
40	0	0	0	0.277	1.7	1829	1.35	2303
50	0	0	0	0.277	1.9	1638	1.45	2152
60	0	0	0	0.277	2.13	1461	1.56	1999
70	0	0	0	0.277	2.4	1300	1.69	1848
80	0	0	0	0.277	2.69	1159	1.83	1699
90	0	0	0	0.277	3	1038	2.01	1553
100	0	0	0	0.277	3.33	936	2.2	1414
110	0	0	0	0.277	3.67	850	2.43	1283
120	0	0	0	0.277	4	779	2.68	1162
130	0	0	0	0.277	4.21	741	2.96	1054
167	0	0	0	0.277	4.78	652	4.08	763
212	0	0	0	0.277	5.5	568	5.3	589

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.577	5.4	2142	4.82	2400*
20	0	0	0	0.277	2.7	2055	2.3	2411
30	0	0	0	0.277	2.96	1872	2.44	2269
40	0	0	0	0.277	3.26	1702	2.61	2126
50	0	0	0	0.277	3.58	1546	2.79	1986
60	0	0	0	0.277	3.94	1406	3	1848
70	0	0	0	0.277	4.32	1283	3.23	1714
80	0	0	0	0.277	4.71	1176	3.49	1586
90	0	0	0	0.277	5.12	1083	3.78	1466
100	0	0	0	0.277	5.52	1004	4.09	1354
110	0	0	0	0.277	5.93	935	4.43	1252
120	0	0	0	0.277	6.33	877	4.78	1160
130	0	0	0	0.277	6.72	826	5.14	1078
167	0	0	0	0.277	7.55	735	6.52	850
212	0	0	0	0.277	8.4	660	8.13	683

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.59

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.577	8.18	2208	7.53	2400*
20	0	0	0	0.277	4.66	1859	3.95	2191
30	0	0	0	0.277	5.06	1713	4.2	2061
40	0	0	0	0.277	5.48	1580	4.48	1935
50	0	0	0	0.277	5.93	1461	4.78	1813
60	0	0	0	0.277	6.39	1356	5.1	1696
70	0	0	0	0.277	6.86	1264	5.46	1587
80	0	0	0	0.277	7.33	1182	5.83	1485
90	0	0	0	0.277	7.8	1111	6.23	1391
100	0	0	0	0.277	8.26	1049	6.64	1305
110	0	0	0	0.277	8.72	994	7.06	1228
120	0	0	0	0.277	9.17	945	7.48	1158
130	0	0	0	0.277	9.61	902	7.91	1095
167	0	0	0	0.277	10.81	802	9.49	913
212	0	0	0	0.277	11.8	735	11.3	767

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.60

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-5
150.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9
200.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-10
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-10	1-1	1-2
175.00	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-2	1-6	1-8
200.00	0-7	0-7	0-8	0-9	0-11	1-1	1-3	1-7	2-0	2-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.61

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
150.00	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
175.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-8	0-9	0-10
200.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1
225.00	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4
250.00	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-4	1-6	1-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10	0-11	1-1
175.00	0-5	0-6	0-7	0-7	0-8	0-10	0-11	1-1	1-3	1-5
200.00	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-8	1-11
225.00	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-10	2-1	2-5
250.00	0-11	1-0	1-1	1-3	1-5	1-8	1-11	2-3	2-7	3-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.62

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
175.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-10
200.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
225.00	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-2	1-3	1-4
250.00	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8
275.00	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-10	2-1
300.00	1-2	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-2	2-5
325.00	1-5	1-6	1-7	1-8	1-10	2-0	2-2	2-4	2-7	2-10
350.00	1-8	1-9	1-10	2-0	2-1	2-4	2-6	2-9	3-0	3-4
375.00	1-10	2-0	2-1	2-3	2-5	2-8	2-10	3-2	3-5	3-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11
175.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-3
200.00	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-8
225.00	0-9	0-10	1-0	1-1	1-2	1-4	1-6	1-8	1-10	2-1
250.00	1-0	1-1	1-2	1-4	1-6	1-8	1-10	2-1	2-4	2-7
275.00	1-2	1-3	1-5	1-7	1-10	2-0	2-3	2-6	2-10	3-1
300.00	1-5	1-6	1-8	1-11	2-2	2-5	2-8	3-0	3-4	3-8
325.00	1-8	1-10	2-0	2-3	2-6	2-10	3-2	3-6	3-11	4-4
350.00	1-11	2-1	2-4	2-7	2-11	3-3	3-8	4-1	4-6	5-0
375.00	2-2	2-5	2-8	3-0	3-4	3-9	4-2	4-8	5-2	5-9

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STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.63

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1
225.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-4	1-5
250.00	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9
275.00	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-1
300.00	1-4	1-4	1-6	1-7	1-8	1-10	2-0	2-2	2-4	2-6
325.00	1-6	1-7	1-9	1-10	2-0	2-2	2-4	2-6	2-8	2-11
350.00	1-9	1-10	2-0	2-2	2-4	2-6	2-8	2-11	3-2	3-5
375.00	2-0	2-2	2-3	2-5	2-8	2-10	3-1	3-4	3-7	3-11
400.00	2-4	2-5	2-7	2-9	3-0	3-3	3-6	3-9	4-1	4-5
425.00	2-7	2-9	2-11	3-2	3-5	3-8	3-11	4-3	4-7	5-0
450.00	2-11	3-1	3-4	3-6	3-10	4-1	4-5	4-9	5-2	5-7
475.00	3-3	3-5	3-8	3-11	4-3	4-7	4-11	5-4	5-9	6-3
500.00	3-7	3-10	4-1	4-4	4-8	5-1	5-6	5-11	6-5	6-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6
225.00	0-10	0-11	1-0	1-2	1-3	1-4	1-6	1-7	1-9	1-11
250.00	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-4
275.00	1-3	1-5	1-6	1-8	1-10	2-0	2-3	2-5	2-7	2-10
300.00	1-6	1-8	1-10	2-0	2-3	2-5	2-8	2-11	3-1	3-4
325.00	1-9	1-11	2-2	2-4	2-7	2-10	3-1	3-5	3-8	3-11
350.00	2-1	2-3	2-6	2-9	3-0	3-4	3-7	3-11	4-3	4-6
375.00	2-4	2-7	2-10	3-2	3-6	3-10	4-2	4-6	4-10	5-3
400.00	2-8	3-0	3-3	3-7	3-11	4-4	4-9	5-1	5-6	5-11
425.00	3-1	3-4	3-8	4-1	4-5	4-11	5-4	5-9	6-3	6-8
450.00	3-5	3-9	4-1	4-6	5-0	5-6	6-0	6-6	7-0	7-6
475.00	3-10	4-2	4-7	5-1	5-7	6-1	6-8	7-3	7-9	8-4
500.00	4-3	4-8	5-1	5-7	6-2	6-9	7-4	8-0	8-8	9-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.64

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-9
275.00	1-2	1-3	1-4	1-5	1-7	1-8	1-9	1-11	2-0	2-2
300.00	1-5	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-5	2-6
325.00	1-8	1-9	1-11	2-0	2-2	2-4	2-6	2-8	2-10	3-0
350.00	1-11	2-1	2-2	2-4	2-6	2-8	2-10	3-1	3-3	3-5
375.00	2-3	2-4	2-6	2-8	2-10	3-1	3-3	3-6	3-9	4-0
400.00	2-6	2-8	2-10	3-1	3-3	3-6	3-9	4-0	4-3	4-6
425.00	2-10	3-0	3-3	3-5	3-8	3-11	4-3	4-6	4-10	5-1
450.00	3-2	3-5	3-8	3-10	4-2	4-5	4-9	5-1	5-4	5-9
475.00	3-7	3-9	4-0	4-4	4-7	4-11	5-3	5-7	6-0	6-4
500.00	3-11	4-2	4-6	4-9	5-1	5-5	5-10	6-3	6-8	7-1
525.00	4-4	4-8	4-11	5-3	5-8	6-0	6-5	6-10	7-4	7-9
550.00	4-9	5-1	5-5	5-9	6-2	6-7	7-1	7-6	8-0	8-6
575.00	5-3	5-7	5-11	6-4	6-9	7-3	7-9	8-3	8-9	9-4
600.00	5-8	6-1	6-5	6-11	7-4	7-10	8-5	9-0	9-7	10-2
625.00	6-2	6-7	7-0	7-6	8-0	8-6	9-1	9-9	10-4	11-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-2	1-3	1-4	1-6	1-7	1-9	1-10	1-11	2-1	2-2
275.00	1-5	1-6	1-8	1-10	1-11	2-1	2-3	2-4	2-6	2-8
300.00	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2
325.00	2-0	2-2	2-4	2-6	2-8	2-11	3-1	3-4	3-6	3-8
350.00	2-3	2-6	2-8	2-11	3-2	3-4	3-7	3-10	4-1	4-3
375.00	2-7	2-10	3-1	3-4	3-7	3-10	4-1	4-5	4-8	4-11
400.00	3-0	3-3	3-6	3-10	4-1	4-5	4-8	5-0	5-3	5-7
425.00	3-4	3-8	4-0	4-3	4-7	4-11	5-4	5-8	6-0	6-4
450.00	3-9	4-1	4-5	4-10	5-2	5-7	5-11	6-4	6-8	7-1
475.00	4-2	4-7	4-11	5-4	5-9	6-2	6-7	7-0	7-5	7-10
500.00	4-8	5-1	5-6	5-11	6-5	6-10	7-4	7-10	8-3	8-9
525.00	5-2	5-7	6-1	6-6	7-1	7-7	8-1	8-7	9-1	9-7
550.00	5-8	6-1	6-8	7-2	7-9	8-4	8-10	9-5	10-0	10-7
575.00	6-2	6-8	7-3	7-10	8-5	9-1	9-8	10-4	10-11	11-6
600.00	6-8	7-3	7-11	8-6	9-2	9-10	10-7	11-3	11-11	12-7
625.00	7-3	7-11	8-7	9-3	10-0	10-9	11-5	12-2	12-11	13-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.65

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.911	1.22	937	1.14	1000*
20	0	0	0	0.277	0.4	875	0.35	999
30	0	0	0	0.277	0.5	692	0.41	836
40	0	0	0	0.277	0.64	545	0.51	685
50	0	0	0	0.277	0.79	437	0.62	556
60	0	0	0	0.277	0.95	364	0.76	454
70	0	0	0	0.277	1.11	313	0.91	380
80	0	0	0	0.277	1.25	277	1.06	327
90	0	0	0	0.277	1.36	255	1.2	288
100	0	0	0	0.277	1.43	242	1.34	259
110	0	0	0	0.277	1.5	230	1.46	237
120	0	0	0	0.277	1.58	220	1.55	224
130	0	0	0	0.277	1.65	211	1.62	214
167	0	0	0	0.277	1.89	183	1.86	186
212	0	0	0	0.277	2.16	160	2.14	162

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.911	4.66	980	4.56	1000*
20	0	0	0	0.277	3.57	388	3.36	413
30	0	0	0	0.277	3.77	367	3.56	389
40	0	0	0	0.277	3.97	350	3.76	369
50	0	0	0	0.277	4.16	334	3.94	352
60	0	0	0	0.277	4.34	320	4.13	336
70	0	0	0	0.277	4.51	308	4.3	322
80	0	0	0	0.277	4.68	297	4.47	310
90	0	0	0	0.277	4.84	287	4.64	299
100	0	0	0	0.277	4.95	280	4.8	289
110	0	0	0	0.277	5.05	275	4.96	280
120	0	0	0	0.277	5.15	270	5.11	272
130	0	0	0	0.277	5.24	265	5.21	266
167	0	0	0	0.277	5.58	249	5.55	250
212	0	0	0	0.277	5.98	232	5.95	234

* Design Condition

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SHEET 66 OF 129

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.66

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.911	10.39	991	10.3	1000*
20	0	0	0	0.277	9.32	335	9.12	343
30	0	0	0	0.277	9.51	329	9.31	336
40	0	0	0	0.277	9.7	323	9.5	329
50	0	0	0	0.277	9.88	317	9.68	323
60	0	0	0	0.277	10.06	311	9.86	318
70	0	0	0	0.277	10.24	306	10.03	312
80	0	0	0	0.277	10.41	301	10.2	307
90	0	0	0	0.277	10.58	296	10.37	302
100	0	0	0	0.277	10.72	292	10.54	297
110	0	0	0	0.277	10.83	289	10.71	292
120	0	0	0	0.277	10.93	287	10.87	288
130	0	0	0	0.277	11.04	284	11.01	285
167	0	0	0	0.277	11.42	274	11.39	275
212	0	0	0	0.277	11.88	264	11.84	265

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.911	18.47	995	18.38	1000*
20	0	0	0	0.277	17.41	321	17.22	324
30	0	0	0	0.277	17.59	317	17.4	321
40	0	0	0	0.277	17.78	314	17.58	318
50	0	0	0	0.277	17.96	311	17.76	314
60	0	0	0	0.277	18.14	308	17.93	311
70	0	0	0	0.277	18.31	305	18.11	308
80	0	0	0	0.277	18.49	302	18.28	306
90	0	0	0	0.277	18.66	299	18.45	303
100	0	0	0	0.277	18.81	297	18.62	300
110	0	0	0	0.277	18.92	295	18.79	297
120	0	0	0	0.277	19.03	294	18.96	295
130	0	0	0	0.277	19.14	292	19.11	293
167	0	0	0	0.277	19.55	286	19.52	287
212	0	0	0	0.277	20.03	279	20	280

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.67

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.911	28.95	997	28.85	1000*
20	0	0	0	0.277	27.89	314	27.7	316
30	0	0	0	0.277	28.07	312	27.88	314
40	0	0	0	0.277	28.25	310	28.05	312
50	0	0	0	0.277	28.43	308	28.23	311
60	0	0	0	0.277	28.61	307	28.41	309
70	0	0	0	0.277	28.79	305	28.58	307
80	0	0	0	0.277	28.96	303	28.76	305
90	0	0	0	0.277	29.14	301	28.93	303
100	0	0	0	0.277	29.29	300	29.1	301
110	0	0	0	0.277	29.41	298	29.27	300
120	0	0	0	0.277	29.52	297	29.44	298
130	0	0	0	0.277	29.63	296	29.6	297
167	0	0	0	0.277	30.05	292	30.02	293
212	0	0	0	0.277	30.55	288	30.51	288

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.68

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10
100.00	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-4	1-6
125.00	0-6	0-8	0-9	1-0	1-2	1-5	1-8	1-11	2-1	2-3
150.00	0-9	0-11	1-2	1-5	1-9	2-1	2-5	2-8	3-0	3-4
175.00	1-1	1-3	1-7	1-11	2-4	2-10	3-3	3-8	4-1	4-6
200.00	1-5	1-8	2-0	2-6	3-1	3-8	4-3	4-10	5-4	5-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10
100.00	0-5	0-6	0-8	0-10	0-11	1-1	1-3	1-4	1-5	1-6
125.00	0-7	0-9	1-0	1-3	1-6	1-9	1-11	2-1	2-3	2-4
150.00	0-11	1-2	1-5	1-9	2-2	2-6	2-10	3-1	3-3	3-5
175.00	1-3	1-6	1-11	2-5	2-11	3-5	3-10	4-2	4-5	4-7
200.00	1-7	2-0	2-7	3-2	3-10	4-5	5-0	5-5	5-9	6-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.69

Stringing Sag Table Using Initial Sag									Ruling Span:	200.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-10	1-11
150.00	1-11	2-0	2-1	2-3	2-4	2-5	2-6	2-7	2-8	2-9
175.00	2-7	2-9	2-11	3-0	3-2	3-4	3-5	3-7	3-8	3-10
200.00	3-4	3-7	3-9	3-11	4-2	4-4	4-6	4-8	4-10	4-11
225.00	4-3	4-6	4-9	5-0	5-3	5-5	5-8	5-10	6-1	6-3
250.00	5-3	5-7	5-10	6-2	6-5	6-9	7-0	7-3	7-6	7-9

Stringing Sag Table Using Final Sag									Ruling Span:	200.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-3	1-3
125.00	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-11	1-11	2-0
150.00	2-0	2-1	2-3	2-4	2-5	2-6	2-8	2-9	2-9	2-10
175.00	2-9	2-11	3-0	3-2	3-4	3-5	3-7	3-8	3-10	3-10
200.00	3-7	3-9	4-0	4-2	4-4	4-6	4-8	4-10	4-11	5-1
225.00	4-6	4-9	5-0	5-3	5-6	5-9	5-11	6-2	6-3	6-5
250.00	5-7	5-11	6-2	6-6	6-9	7-1	7-4	7-7	7-9	7-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.70

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-4	2-4	2-5	2-6	2-6	2-7	2-7	2-8	2-8
175.00	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-6	3-7	3-8
200.00	4-1	4-2	4-3	4-4	4-5	4-5	4-6	4-7	4-8	4-9
225.00	5-2	5-3	5-4	5-5	5-6	5-8	5-9	5-10	5-11	6-0
250.00	6-4	6-6	6-7	6-9	6-10	7-0	7-1	7-2	7-4	7-5
275.00	7-8	7-10	8-0	8-2	8-3	8-5	8-7	8-9	8-10	9-0
300.00	9-1	9-4	9-6	9-8	9-10	10-0	10-2	10-4	10-7	10-9
325.00	10-9	10-11	11-2	11-4	11-7	11-9	12-0	12-2	12-5	12-7
350.00	12-5	12-8	12-11	13-2	13-5	13-8	13-11	14-2	14-4	14-7
375.00	14-3	14-7	14-10	15-2	15-5	15-8	15-11	16-3	16-6	16-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-8
175.00	3-2	3-3	3-4	3-4	3-5	3-6	3-6	3-7	3-8	3-8
200.00	4-2	4-3	4-4	4-5	4-6	4-7	4-7	4-8	4-9	4-10
225.00	5-3	5-4	5-5	5-7	5-8	5-9	5-10	5-11	6-0	6-1
250.00	6-6	6-7	6-9	6-10	7-0	7-1	7-3	7-4	7-5	7-6
275.00	7-10	8-0	8-2	8-4	8-5	8-7	8-9	8-11	9-0	9-1
300.00	9-4	9-6	9-8	9-11	10-1	10-3	10-5	10-7	10-9	10-10
325.00	10-11	11-2	11-5	11-7	11-10	12-0	12-3	12-5	12-7	12-9
350.00	12-8	12-11	13-3	13-5	13-8	13-11	14-2	14-5	14-7	14-9
375.00	14-7	14-11	15-2	15-5	15-9	16-0	16-3	16-7	16-9	16-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.71

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8
225.00	5-5	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-11	5-11
250.00	6-9	6-9	6-10	6-11	7-0	7-1	7-2	7-2	7-3	7-4
275.00	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-9	8-10
300.00	9-8	9-9	9-11	10-0	10-1	10-2	10-3	10-4	10-6	10-7
325.00	11-4	11-6	11-7	11-9	11-10	11-11	12-1	12-2	12-3	12-5
350.00	13-2	13-4	13-5	13-7	13-9	13-10	14-0	14-1	14-3	14-5
375.00	15-2	15-3	15-5	15-7	15-9	15-11	16-1	16-3	16-4	16-6
400.00	17-3	17-5	17-7	17-9	17-11	18-1	18-3	18-5	18-7	18-10
425.00	19-5	19-8	19-10	20-1	20-3	20-5	20-8	20-10	21-0	21-3
450.00	21-10	22-0	22-3	22-6	22-9	22-11	23-2	23-4	23-7	23-10
475.00	24-4	24-7	24-10	25-1	25-4	25-7	25-10	26-1	26-4	26-6
500.00	26-11	27-3	27-6	27-9	28-1	28-4	28-7	28-11	29-2	29-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-4	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9
225.00	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-11	5-11	6-0
250.00	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-3	7-4	7-5
275.00	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-11	8-11
300.00	9-9	9-11	10-0	10-1	10-2	10-3	10-5	10-6	10-7	10-8
325.00	11-6	11-7	11-9	11-10	12-0	12-1	12-2	12-4	12-5	12-6
350.00	13-4	13-6	13-7	13-9	13-11	14-0	14-2	14-3	14-5	14-6
375.00	15-4	15-6	15-7	15-9	15-11	16-1	16-3	16-5	16-6	16-7
400.00	17-5	17-7	17-9	17-11	18-2	18-4	18-6	18-8	18-10	18-11
425.00	19-8	19-10	20-1	20-3	20-6	20-8	20-11	21-1	21-3	21-4
450.00	22-1	22-3	22-6	22-9	23-0	23-2	23-5	23-8	23-10	24-0
475.00	24-7	24-10	25-1	25-4	25-7	25-10	26-1	26-4	26-7	26-9
500.00	27-3	27-6	27-10	28-1	28-5	28-8	28-11	29-2	29-5	29-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.72

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-11	6-11	7-0	7-0	7-1	7-1	7-2	7-3	7-3	7-4
275.00	8-4	8-5	8-6	8-6	8-7	8-7	8-8	8-9	8-9	8-10
300.00	9-11	10-0	10-1	10-2	10-2	10-3	10-4	10-5	10-5	10-6
325.00	11-8	11-9	11-10	11-11	12-0	12-1	12-1	12-2	12-3	12-4
350.00	13-7	13-8	13-9	13-10	13-11	14-0	14-1	14-2	14-3	14-4
375.00	15-7	15-8	15-9	15-10	15-11	16-1	16-2	16-3	16-4	16-5
400.00	17-8	17-10	17-11	18-0	18-2	18-3	18-5	18-6	18-7	18-8
425.00	20-0	20-1	20-3	20-4	20-6	20-8	20-9	20-11	21-0	21-1
450.00	22-5	22-7	22-8	22-10	23-0	23-2	23-3	23-5	23-7	23-8
475.00	25-0	25-2	25-4	25-6	25-8	25-9	25-11	26-1	26-3	26-5
500.00	27-8	27-11	28-1	28-3	28-5	28-7	28-9	28-11	29-1	29-3
525.00	30-7	30-9	30-11	31-2	31-4	31-6	31-9	31-11	32-1	32-3
550.00	33-7	33-9	34-0	34-2	34-5	34-7	34-10	35-0	35-3	35-5
575.00	36-8	36-11	37-2	37-5	37-7	37-10	38-1	38-4	38-7	38-9
600.00	39-11	40-3	40-6	40-9	41-0	41-3	41-6	41-9	42-0	42-3
625.00	43-5	43-8	43-11	44-3	44-6	44-9	45-1	45-4	45-7	45-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-11	7-0	7-0	7-1	7-2	7-2	7-3	7-3	7-4	7-4
275.00	8-5	8-6	8-6	8-7	8-8	8-8	8-9	8-9	8-10	8-10
300.00	10-0	10-1	10-2	10-2	10-3	10-4	10-5	10-6	10-6	10-7
325.00	11-9	11-10	11-11	12-0	12-1	12-2	12-2	12-3	12-4	12-5
350.00	13-8	13-9	13-10	13-11	14-0	14-1	14-2	14-3	14-4	14-5
375.00	15-8	15-9	15-10	16-0	16-1	16-2	16-3	16-4	16-5	16-6
400.00	17-10	17-11	18-1	18-2	18-3	18-5	18-6	18-7	18-9	18-9
425.00	20-2	20-3	20-5	20-6	20-8	20-9	20-11	21-0	21-2	21-3
450.00	22-7	22-9	22-10	23-0	23-2	23-4	23-5	23-7	23-8	23-10
475.00	25-2	25-4	25-6	25-8	25-10	26-0	26-2	26-3	26-5	26-6
500.00	27-11	28-1	28-3	28-5	28-7	28-9	29-0	29-2	29-4	29-5
525.00	30-9	31-0	31-2	31-4	31-7	31-9	31-11	32-2	32-4	32-5
550.00	33-9	34-0	34-3	34-5	34-8	34-10	35-1	35-4	35-6	35-7
575.00	36-11	37-2	37-5	37-8	37-11	38-2	38-4	38-7	38-10	38-11
600.00	40-3	40-6	40-9	41-0	41-3	41-6	41-9	42-1	42-3	42-5
625.00	43-8	44-0	44-3	44-6	44-10	45-1	45-4	45-8	45-11	46-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.73

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.911	0.87	1313	0.76	1500*
20	0	0	0	0.277	0.21	1612	0.19	1782
30	0	0	0	0.277	0.25	1384	0.21	1612
40	0	0	0	0.277	0.3	1162	0.24	1440
50	0	0	0	0.277	0.36	949	0.27	1267
60	0	0	0	0.277	0.46	756	0.32	1093
70	0	0	0	0.277	0.58	595	0.37	924
80	0	0	0	0.277	0.73	473	0.45	762
90	0	0	0	0.277	0.89	389	0.56	619
100	0	0	0	0.277	0.96	361	0.69	501
110	0	0	0	0.277	1.03	335	0.84	413
120	0	0	0	0.277	1.11	312	0.99	350
130	0	0	0	0.277	1.19	292	1.13	305
167	0	0	0	0.277	1.46	237	1.41	246
212	0	0	0	0.277	1.78	195	1.73	201

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.911	3.17	1440	3.04	1500*
20	0	0	0	0.277	1.42	979	1.21	1142
30	0	0	0	0.277	1.64	843	1.38	1006
40	0	0	0	0.277	1.89	733	1.57	885
50	0	0	0	0.277	2.15	646	1.78	780
60	0	0	0	0.277	2.4	578	2	691
70	0	0	0	0.277	2.65	523	2.24	619
80	0	0	0	0.277	2.89	480	2.48	560
90	0	0	0	0.277	3.12	445	2.71	512
100	0	0	0	0.277	3.34	415	2.93	472
110	0	0	0	0.277	3.5	397	3.15	440
120	0	0	0	0.277	3.61	384	3.37	412
130	0	0	0	0.277	3.73	372	3.57	389
167	0	0	0	0.277	4.15	335	4.09	339
212	0	0	0	0.277	4.63	300	4.57	304

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.911	6.97	1475	6.85	1500*
20	0	0	0	0.277	4.96	629	4.56	684
30	0	0	0	0.277	5.26	593	4.85	643
40	0	0	0	0.277	5.55	562	5.14	607
50	0	0	0	0.277	5.84	535	5.43	575
60	0	0	0	0.277	6.11	511	5.7	547
70	0	0	0	0.277	6.38	489	5.97	523
80	0	0	0	0.277	6.64	470	6.23	501
90	0	0	0	0.277	6.89	453	6.48	481
100	0	0	0	0.277	7.13	438	6.73	464
110	0	0	0	0.277	7.37	424	6.97	448
120	0	0	0	0.277	7.53	415	7.21	433
130	0	0	0	0.277	7.67	407	7.44	420
167	0	0	0	0.277	8.17	383	8.12	385
212	0	0	0	0.277	8.75	357	8.7	359

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.911	12.31	1486	12.19	1500*
20	0	0	0	0.277	10.3	539	9.91	561
30	0	0	0	0.277	10.59	525	10.2	545
40	0	0	0	0.277	10.88	511	10.48	530
50	0	0	0	0.277	11.16	498	10.76	516
60	0	0	0	0.277	11.43	486	11.03	504
70	0	0	0	0.277	11.7	475	11.3	492
80	0	0	0	0.277	11.96	465	11.56	481
90	0	0	0	0.277	12.22	455	11.82	470
100	0	0	0	0.277	12.47	446	12.07	461
110	0	0	0	0.277	12.72	437	12.32	451
120	0	0	0	0.277	12.93	430	12.57	442
130	0	0	0	0.277	13.08	425	12.81	434
167	0	0	0	0.277	13.63	408	13.58	410
212	0	0	0	0.277	14.28	390	14.23	391

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.75

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.911	19.21	1491	19.09	1500*
20	0	0	0	0.277	17.21	505	16.83	517
30	0	0	0	0.277	17.49	497	17.11	508
40	0	0	0	0.277	17.77	490	17.38	500
50	0	0	0	0.277	18.05	482	17.66	493
60	0	0	0	0.277	18.32	475	17.92	485
70	0	0	0	0.277	18.59	468	18.19	478
80	0	0	0	0.277	18.85	462	18.45	472
90	0	0	0	0.277	19.11	456	18.71	465
100	0	0	0	0.277	19.37	450	18.97	459
110	0	0	0	0.277	19.62	444	19.22	453
120	0	0	0	0.277	19.86	439	19.48	447
130	0	0	0	0.277	20.02	435	19.72	442
167	0	0	0	0.277	20.6	423	20.55	424
212	0	0	0	0.277	21.29	409	21.24	410

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.76

Stringing Sag Table Using Initial Sag									Ruling Span:	100
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6
100.00	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-7	0-8	0-10
125.00	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-10	1-1	1-4
150.00	0-5	0-6	0-6	0-7	0-9	0-10	1-0	1-3	1-7	1-11
175.00	0-7	0-8	0-9	0-10	1-0	1-2	1-5	1-9	2-1	2-7
200.00	0-9	0-10	1-0	1-1	1-3	1-6	1-10	2-3	2-9	3-4

Stringing Sag Table Using Final Sag									Ruling Span:	100
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-3	0-4	0-5	0-6	0-6	0-7
100.00	0-3	0-3	0-4	0-4	0-5	0-7	0-9	0-11	1-0	1-0
125.00	0-4	0-5	0-6	0-7	0-9	0-11	1-2	1-5	1-6	1-7
150.00	0-6	0-7	0-8	0-10	1-0	1-4	1-8	2-0	2-2	2-4
175.00	0-8	0-9	0-11	1-1	1-5	1-9	2-3	2-9	2-11	3-2
200.00	0-10	1-0	1-2	1-6	1-10	2-4	2-11	3-7	3-10	4-2

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SHEET 77 OF 129

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.77

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-9
125.00	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3
150.00	0-8	0-9	0-11	1-0	1-2	1-3	1-5	1-6	1-8	1-9
175.00	0-11	1-1	1-2	1-4	1-6	1-9	1-11	2-1	2-3	2-5
200.00	1-3	1-5	1-7	1-9	2-0	2-3	2-6	2-8	2-11	3-2
225.00	1-6	1-9	2-0	2-3	2-6	2-10	3-2	3-5	3-9	4-0
250.00	1-11	2-2	2-5	2-9	3-2	3-6	3-10	4-3	4-7	4-11

Stringing Sag Table Using Final Sag — Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-10
125.00	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4	1-4
150.00	0-10	0-11	1-1	1-2	1-4	1-6	1-7	1-9	1-11	2-0
175.00	1-1	1-3	1-5	1-8	1-10	2-0	2-3	2-5	2-7	2-8
200.00	1-5	1-8	1-11	2-2	2-5	2-8	2-11	3-1	3-4	3-6
225.00	1-9	2-1	2-5	2-9	3-0	3-4	3-8	3-11	4-3	4-5
250.00	2-3	2-7	2-11	3-4	3-9	4-2	4-6	4-10	5-3	5-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.78

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Stringing Sag Table Using Initial Sag — Ruling Span: 300

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9
175.00	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
200.00	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-11	3-0	3-1
225.00	2-7	2-9	2-11	3-1	3-2	3-4	3-6	3-8	3-9	3-11
250.00	3-2	3-4	3-7	3-9	4-0	4-2	4-4	4-6	4-8	4-10
275.00	3-10	4-1	4-4	4-7	4-9	5-0	5-3	5-5	5-8	5-10
300.00	4-7	4-10	5-2	5-5	5-8	6-0	6-3	6-6	6-9	7-0
325.00	5-4	5-8	6-0	6-4	6-8	7-0	7-4	7-7	7-11	8-2
350.00	6-2	6-7	7-0	7-5	7-9	8-2	8-6	8-10	9-2	9-6
375.00	7-1	7-7	8-0	8-6	8-11	9-4	9-9	10-2	10-6	10-11

Stringing Sag Table Using Final Sag — Ruling Span: 300

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-9	1-10
175.00	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6
200.00	2-2	2-4	2-6	2-7	2-9	2-10	2-11	3-1	3-2	3-3
225.00	2-9	3-0	3-1	3-3	3-5	3-7	3-9	3-10	4-0	4-2
250.00	3-5	3-8	3-10	4-1	4-3	4-5	4-7	4-9	4-11	5-1
275.00	4-2	4-5	4-8	4-11	5-2	5-4	5-7	5-9	6-0	6-2
300.00	4-11	5-3	5-7	5-10	6-1	6-5	6-8	6-11	7-2	7-4
325.00	5-10	6-2	6-6	6-10	7-2	7-6	7-9	8-1	8-4	8-8
350.00	6-9	7-2	7-7	7-11	8-4	8-8	9-0	9-5	9-9	10-0
375.00	7-9	8-3	8-8	9-2	9-7	10-0	10-5	10-9	11-2	11-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.79

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Stringing Sag Table Using Initial Sag — Ruling Span: 400

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-6	2-7	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1
225.00	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
250.00	3-10	4-0	4-1	4-2	4-4	4-5	4-6	4-7	4-9	4-10
275.00	4-8	4-10	4-11	5-1	5-3	5-4	5-6	5-7	5-8	5-10
300.00	5-7	5-9	5-11	6-1	6-2	6-4	6-6	6-8	6-9	6-11
325.00	6-6	6-9	6-11	7-1	7-3	7-5	7-8	7-10	8-0	8-2
350.00	7-7	7-10	8-0	8-3	8-5	8-8	8-10	9-1	9-3	9-5
375.00	8-8	9-0	9-3	9-5	9-8	9-11	10-2	10-5	10-7	10-10
400.00	9-11	10-2	10-6	10-9	11-0	11-4	11-7	11-10	12-1	12-4
425.00	11-2	11-6	11-10	12-2	12-5	12-9	13-1	13-4	13-8	13-11
450.00	12-6	12-11	13-3	13-7	14-0	14-4	14-8	15-0	15-3	15-7
475.00	14-0	14-5	14-9	15-2	15-7	15-11	16-4	16-8	17-0	17-5
500.00	15-6	15-11	16-5	16-10	17-3	17-8	18-1	18-6	18-11	19-3

Stringing Sag Table Using Final Sag — Ruling Span: 400

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-7	2-8	2-9	2-9	2-10	2-11	3-0	3-1	3-1	3-2
225.00	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
250.00	4-0	4-2	4-3	4-4	4-6	4-7	4-8	4-9	4-10	5-0
275.00	4-10	5-0	5-2	5-3	5-5	5-6	5-8	5-9	5-11	6-0
300.00	5-9	5-11	6-1	6-3	6-5	6-7	6-9	6-10	7-0	7-2
325.00	6-10	7-0	7-2	7-4	7-7	7-9	7-11	8-1	8-3	8-5
350.00	7-11	8-1	8-4	8-6	8-9	8-11	9-2	9-4	9-7	9-9
375.00	9-1	9-4	9-7	9-10	10-1	10-3	10-6	10-9	11-0	11-2
400.00	10-4	10-7	10-11	11-2	11-5	11-8	12-0	12-3	12-6	12-9
425.00	11-8	12-0	12-3	12-7	12-11	13-3	13-6	13-10	14-1	14-4
450.00	13-0	13-5	13-9	14-1	14-6	14-10	15-2	15-6	15-10	16-1
475.00	14-6	14-11	15-4	15-9	16-2	16-6	16-11	17-3	17-7	17-11
500.00	16-1	16-7	17-0	17-5	17-10	18-3	18-8	19-1	19-6	19-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.80

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Stringing Sag Table Using Initial Sag — Ruling Span: 500

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-2	4-3	4-4	4-5	4-6	4-7	4-7	4-8	4-9	4-10
275.00	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10
300.00	6-1	6-2	6-3	6-4	6-5	6-6	6-8	6-9	6-10	6-11
325.00	7-1	7-3	7-4	7-5	7-7	7-8	7-9	7-11	8-0	8-1
350.00	8-3	8-5	8-6	8-8	8-9	8-11	9-0	9-2	9-3	9-5
375.00	9-6	9-7	9-9	9-11	10-1	10-3	10-4	10-6	10-8	10-10
400.00	10-9	10-11	11-1	11-4	11-6	11-8	11-10	12-0	12-2	12-4
425.00	12-2	12-4	12-7	12-9	12-11	13-2	13-4	13-6	13-8	13-11
450.00	13-8	13-10	14-1	14-4	14-6	14-9	14-11	15-2	15-4	15-7
475.00	15-2	15-5	15-8	15-11	16-2	16-5	16-8	16-11	17-1	17-4
500.00	16-10	17-1	17-5	17-8	17-11	18-2	18-5	18-9	19-0	19-3
525.00	18-7	18-10	19-2	19-6	19-9	20-1	20-4	20-8	20-11	21-2
550.00	20-4	20-8	21-0	21-4	21-8	22-0	22-4	22-8	23-0	23-3
575.00	22-3	22-8	23-0	23-4	23-9	24-1	24-5	24-9	25-1	25-5
600.00	24-3	24-8	25-1	25-5	25-10	26-3	26-7	27-0	27-4	27-8
625.00	26-4	26-9	27-2	27-7	28-0	28-5	28-10	29-3	29-8	30-1

Stringing Sag Table Using Final Sag — Ruling Span: 500

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-4	4-4	4-5	4-6	4-7	4-8	4-8	4-9	4-10	4-11
275.00	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11
300.00	6-2	6-3	6-5	6-6	6-7	6-8	6-9	6-10	7-0	7-1
325.00	7-3	7-5	7-6	7-7	7-9	7-10	7-11	8-1	8-2	8-3
350.00	8-5	8-7	8-8	8-10	9-0	9-1	9-3	9-4	9-6	9-7
375.00	9-8	9-10	10-0	10-2	10-4	10-5	10-7	10-9	10-11	11-0
400.00	11-0	11-2	11-4	11-7	11-9	11-11	12-1	12-3	12-5	12-7
425.00	12-5	12-8	12-10	13-0	13-3	13-5	13-7	13-10	14-0	14-2
450.00	13-11	14-2	14-5	14-7	14-10	15-1	15-3	15-6	15-8	15-11
475.00	15-6	15-9	16-0	16-3	16-6	16-9	17-0	17-3	17-6	17-8
500.00	17-2	17-6	17-9	18-1	18-4	18-7	18-10	19-1	19-4	19-7
525.00	19-0	19-3	19-7	19-11	20-2	20-6	20-9	21-1	21-4	21-8
550.00	20-10	21-2	21-6	21-10	22-2	22-6	22-10	23-2	23-5	23-9
575.00	22-9	23-2	23-6	23-11	24-3	24-7	24-11	25-3	25-8	26-0
600.00	24-10	25-2	25-7	26-0	26-5	26-9	27-2	27-7	27-11	28-3
625.00	26-11	27-4	27-10	28-3	28-8	29-1	29-6	29-11	30-4	30-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.81

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.911	0.69	1648	0.57	2000*
20	0	0	0	0.277	0.17	2098	0.15	2364
30	0	0	0	0.277	0.19	1864	0.16	2203
40	0	0	0	0.277	0.21	1633	0.17	2039
50	0	0	0	0.277	0.25	1404	0.18	1872
60	0	0	0	0.277	0.29	1181	0.2	1701
70	0	0	0	0.277	0.36	968	0.23	1528
80	0	0	0	0.277	0.45	772	0.26	1352
90	0	0	0	0.277	0.57	607	0.29	1176
100	0	0	0	0.277	0.67	520	0.35	1002
110	0	0	0	0.277	0.72	480	0.42	834
120	0	0	0	0.277	0.78	443	0.51	680
130	0	0	0	0.277	0.85	409	0.63	549
167	0	0	0	0.277	1.12	310	1.03	335
212	0	0	0	0.277	1.45	238	1.37	253

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.911	2.48	1840	2.28	2000*
20	0	0	0	0.277	0.79	1746	0.7	1991
30	0	0	0	0.277	0.9	1535	0.76	1831
40	0	0	0	0.277	1.04	1335	0.83	1671
50	0	0	0	0.277	1.2	1152	0.92	1511
60	0	0	0	0.277	1.4	989	1.02	1354
70	0	0	0	0.277	1.63	852	1.15	1203
80	0	0	0	0.277	1.87	740	1.31	1061
90	0	0	0	0.277	2.13	651	1.49	931
100	0	0	0	0.277	2.38	582	1.69	818
110	0	0	0	0.277	2.6	533	1.92	722
120	0	0	0	0.277	2.72	510	2.15	643
130	0	0	0	0.277	2.84	488	2.39	579
167	0	0	0	0.277	3.29	422	3.19	435
212	0	0	0	0.277	3.81	364	3.72	373

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.82

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.911	5.3	1936	5.13	2000*
20	0	0	0	0.277	2.52	1235	2.16	1442
30	0	0	0	0.277	2.83	1103	2.37	1313
40	0	0	0	0.277	3.15	990	2.61	1192
50	0	0	0	0.277	3.48	896	2.88	1083
60	0	0	0	0.277	3.82	817	3.16	986
70	0	0	0	0.277	4.15	752	3.46	901
80	0	0	0	0.277	4.47	697	3.76	828
90	0	0	0	0.277	4.79	651	4.07	766
100	0	0	0	0.277	5.1	612	4.38	712
110	0	0	0	0.277	5.4	578	4.68	666
120	0	0	0	0.277	5.69	549	4.98	627
130	0	0	0	0.277	5.86	533	5.27	592
167	0	0	0	0.277	6.42	486	6.28	497
212	0	0	0	0.277	7.09	441	7	446

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.911	9.26	1972	9.13	2000*
20	0	0	0	0.277	6.1	908	5.48	1012
30	0	0	0	0.277	6.5	853	5.85	948
40	0	0	0	0.277	6.89	805	6.21	893
50	0	0	0	0.277	7.27	763	6.58	843
60	0	0	0	0.277	7.63	727	6.94	799
70	0	0	0	0.277	7.99	694	7.29	761
80	0	0	0	0.277	8.34	665	7.64	726
90	0	0	0	0.277	8.68	639	7.98	695
100	0	0	0	0.277	9.01	616	8.32	667
110	0	0	0	0.277	9.34	595	8.65	642
120	0	0	0	0.277	9.65	575	8.97	619
130	0	0	0	0.277	9.96	558	9.28	598
167	0	0	0	0.277	10.61	524	10.38	535
212	0	0	0	0.277	11.37	489	11.29	492

* Design Condition

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SHEET 83 OF 129

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.83

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.911	14.39	1985	14.28	2000*
20	0	0	0	0.277	11.18	776	10.52	824
30	0	0	0	0.277	11.58	749	10.91	795
40	0	0	0	0.277	11.96	725	11.29	768
50	0	0	0	0.277	12.34	703	11.67	743
60	0	0	0	0.277	12.71	683	12.04	721
70	0	0	0	0.277	13.08	664	12.4	700
80	0	0	0	0.277	13.43	646	12.75	680
90	0	0	0	0.277	13.78	630	13.1	662
100	0	0	0	0.277	14.12	615	13.45	646
110	0	0	0	0.277	14.46	601	13.78	630
120	0	0	0	0.277	14.78	588	14.11	615
130	0	0	0	0.277	15.11	575	14.44	602
167	0	0	0	0.277	15.88	547	15.6	557
212	0	0	0	0.277	16.71	520	16.64	523

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.84

Stringing Sag Table Using Initial Sag								Ruling Span:		100
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-8
150.00	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-11
175.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-1	1-3
200.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-5	1-8

Stringing Sag Table Using Final Sag								Ruling Span:		100
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-4	0-5
100.00	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-7	0-8	0-9
125.00	0-3	0-3	0-4	0-5	0-5	0-7	0-8	0-11	1-0	1-2
150.00	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-3	1-6	1-7
175.00	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-9	2-0	2-3
200.00	0-8	0-9	0-10	1-0	1-2	1-5	1-10	2-3	2-8	2-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.85

Stringing Sag Table Using Initial Sag — Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
125.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1
175.00	0-6	0-7	0-8	0-8	0-9	0-11	1-0	1-2	1-4	1-6
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-8	1-11
225.00	0-11	0-11	1-1	1-2	1-4	1-5	1-8	1-11	2-2	2-5
250.00	1-1	1-2	1-4	1-5	1-7	1-10	2-0	2-4	2-8	3-0

Stringing Sag Table Using Final Sag — Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8
125.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
150.00	0-5	0-6	0-7	0-8	0-9	0-11	1-1	1-2	1-4	1-6
175.00	0-7	0-8	0-10	0-11	1-1	1-3	1-5	1-8	1-10	2-0
200.00	0-10	0-11	1-0	1-2	1-5	1-8	1-10	2-2	2-5	2-7
225.00	1-0	1-2	1-4	1-6	1-9	2-1	2-4	2-8	3-0	3-4
250.00	1-3	1-5	1-7	1-11	2-2	2-7	2-11	3-4	3-9	4-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.86

Stringing Sag Table Using Initial Sag								Ruling Span:		300
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2
175.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-7
200.00	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10	1-11	2-1
225.00	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-8
250.00	1-6	1-8	1-10	2-0	2-2	2-5	2-7	2-10	3-0	3-3
275.00	1-10	2-0	2-2	2-5	2-8	2-11	3-2	3-5	3-8	3-11
300.00	2-2	2-4	2-7	2-11	3-2	3-6	3-9	4-1	4-5	4-8
325.00	2-6	2-9	3-1	3-5	3-9	4-1	4-5	4-9	5-2	5-6
350.00	2-11	3-3	3-7	3-11	4-4	4-9	5-1	5-7	6-0	6-4
375.00	3-5	3-9	4-1	4-6	4-11	5-5	5-11	6-4	6-10	7-4

Stringing Sag Table Using Final Sag								Ruling Span:		300
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
175.00	0-10	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-9	1-10
200.00	1-1	1-3	1-5	1-7	1-8	1-10	2-0	2-2	2-3	2-5
225.00	1-5	1-7	1-9	1-11	2-2	2-4	2-6	2-8	2-10	3-0
250.00	1-9	2-0	2-2	2-5	2-8	2-11	3-1	3-4	3-6	3-9
275.00	2-1	2-5	2-8	2-11	3-2	3-6	3-9	4-0	4-3	4-6
300.00	2-6	2-10	3-2	3-6	3-10	4-2	4-6	4-10	5-1	5-5
325.00	3-0	3-4	3-8	4-1	4-6	4-10	5-3	5-7	6-0	6-4
350.00	3-5	3-10	4-3	4-9	5-2	5-8	6-1	6-6	6-11	7-4
375.00	3-11	4-5	4-11	5-5	6-0	6-6	7-0	7-6	8-0	8-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.87

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Stringing Sag Table Using Initial Sag — Ruling Span: 400

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-4	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
225.00	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-8	2-9
250.00	2-2	2-3	2-5	2-7	2-9	2-10	3-0	3-1	3-3	3-5
275.00	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-1
300.00	3-1	3-3	3-6	3-8	3-11	4-1	4-4	4-6	4-8	4-10
325.00	3-7	3-10	4-1	4-4	4-7	4-10	5-1	5-3	5-6	5-8
350.00	4-2	4-6	4-9	5-0	5-4	5-7	5-10	6-1	6-4	6-7
375.00	4-10	5-2	5-6	5-9	6-1	6-5	6-9	7-0	7-4	7-7
400.00	5-6	5-10	6-3	6-7	6-11	7-4	7-8	8-0	8-4	8-8
425.00	6-2	6-7	7-0	7-5	7-10	8-3	8-8	9-0	9-5	9-9
450.00	6-11	7-5	7-10	8-4	8-9	9-3	9-8	10-1	10-6	10-11
475.00	7-9	8-3	8-9	9-3	9-9	10-3	10-9	11-3	11-9	12-2
500.00	8-7	9-2	9-9	10-3	10-10	11-5	11-11	12-6	13-0	13-6

Stringing Sag Table Using Final Sag — Ruling Span: 400

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-6	1-7	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
225.00	1-11	2-1	2-2	2-4	2-5	2-6	2-8	2-9	2-10	2-11
250.00	2-5	2-6	2-8	2-10	3-0	3-1	3-3	3-5	3-6	3-8
275.00	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-5
300.00	3-5	3-8	3-10	4-1	4-4	4-6	4-8	4-11	5-1	5-3
325.00	4-0	4-3	4-7	4-10	5-0	5-3	5-6	5-9	5-11	6-2
350.00	4-8	5-0	5-3	5-7	5-10	6-1	6-5	6-8	6-11	7-2
375.00	5-4	5-9	6-1	6-5	6-9	7-0	7-4	7-8	7-11	8-2
400.00	6-1	6-6	6-11	7-3	7-8	8-0	8-4	8-8	9-0	9-4
425.00	6-11	7-4	7-9	8-2	8-7	9-0	9-5	9-10	10-2	10-6
450.00	7-9	8-3	8-9	9-2	9-8	10-1	10-7	11-0	11-5	11-10
475.00	8-7	9-2	9-9	10-3	10-9	11-3	11-9	12-3	12-9	13-2
500.00	9-6	10-2	10-9	11-4	11-11	12-6	13-0	13-7	14-1	14-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.88

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Stringing Sag Table Using Initial Sag — Ruling Span: 500

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5
275.00	3-2	3-4	3-5	3-6	3-8	3-9	3-10	4-0	4-1	4-2
300.00	3-9	3-11	4-1	4-2	4-4	4-6	4-7	4-9	4-10	4-11
325.00	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-6	5-8	5-10
350.00	5-2	5-4	5-6	5-9	5-11	6-1	6-3	6-5	6-7	6-9
375.00	5-11	6-2	6-4	6-7	6-9	7-0	7-2	7-4	7-7	7-9
400.00	6-9	7-0	7-3	7-6	7-8	7-11	8-2	8-5	8-7	8-10
425.00	7-7	7-11	8-2	8-5	8-8	8-11	9-3	9-6	9-9	9-11
450.00	8-6	8-10	9-2	9-5	9-9	10-0	10-4	10-7	10-11	11-2
475.00	9-6	9-10	10-2	10-6	10-10	11-2	11-6	11-10	12-2	12-5
500.00	10-6	10-11	11-4	11-8	12-0	12-5	12-9	13-1	13-5	13-9
525.00	11-7	12-0	12-5	12-10	13-3	13-8	14-1	14-5	14-10	15-2
550.00	12-9	13-2	13-8	14-1	14-7	15-0	15-5	15-10	16-3	16-8
575.00	13-11	14-5	14-11	15-5	15-11	16-5	16-10	17-4	17-9	18-3
600.00	15-2	15-9	16-3	16-10	17-4	17-10	18-4	18-11	19-4	19-10
625.00	16-5	17-1	17-8	18-3	18-10	19-5	19-11	20-6	21-0	21-7

Stringing Sag Table Using Final Sag — Ruling Span: 500

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7
275.00	3-5	3-6	3-7	3-9	3-10	3-11	4-1	4-2	4-3	4-4
300.00	4-0	4-2	4-4	4-5	4-7	4-8	4-10	4-11	5-1	5-2
325.00	4-9	4-11	5-1	5-3	5-4	5-6	5-8	5-10	6-0	6-1
350.00	5-6	5-8	5-10	6-1	6-3	6-5	6-7	6-9	6-11	7-1
375.00	6-3	6-6	6-9	6-11	7-2	7-4	7-7	7-9	7-11	8-2
400.00	7-2	7-5	7-8	7-11	8-2	8-4	8-7	8-10	9-0	9-3
425.00	8-1	8-4	8-8	8-11	9-2	9-5	9-8	9-11	10-2	10-5
450.00	9-1	9-5	9-8	10-0	10-4	10-7	10-11	11-2	11-5	11-8
475.00	10-1	10-5	10-10	11-2	11-6	11-10	12-1	12-5	12-9	13-1
500.00	11-2	11-7	12-0	12-4	12-9	13-1	13-5	13-9	14-1	14-5
525.00	12-4	12-9	13-2	13-7	14-0	14-5	14-10	15-2	15-7	15-11
550.00	13-6	14-0	14-6	14-11	15-5	15-10	16-3	16-8	17-1	17-6
575.00	14-9	15-4	15-10	16-4	16-10	17-4	17-9	18-3	18-8	19-2
600.00	16-1	16-8	17-3	17-9	18-4	18-10	19-4	19-10	20-4	20-10
625.00	17-6	18-1	18-8	19-4	19-11	20-5	21-0	21-7	22-1	22-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.89

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.911	0.59	1918	0.47	2400*
20	0	0	0	0.277	0.14	2436	0.12	2783
30	0	0	0	0.277	0.16	2201	0.13	2631
40	0	0	0	0.277	0.18	1967	0.14	2474
50	0	0	0	0.277	0.2	1734	0.15	2314
60	0	0	0	0.277	0.23	1504	0.16	2150
70	0	0	0	0.277	0.27	1278	0.17	1983
80	0	0	0	0.277	0.33	1060	0.19	1813
90	0	0	0	0.277	0.4	855	0.21	1639
100	0	0	0	0.277	0.51	675	0.24	1463
110	0	0	0	0.277	0.55	626	0.27	1286
120	0	0	0	0.277	0.6	580	0.31	1108
130	0	0	0	0.277	0.65	537	0.37	934
167	0	0	0	0.277	0.87	399	0.78	447
212	0	0	0	0.277	1.2	289	1.08	319

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.911	2.15	2118	1.9	2400*
20	0	0	0	0.277	0.63	2210	0.55	2533
30	0	0	0	0.277	0.7	1986	0.58	2378
40	0	0	0	0.277	0.78	1767	0.62	2221
50	0	0	0	0.277	0.89	1555	0.67	2062
60	0	0	0	0.277	1.02	1354	0.73	1900
70	0	0	0	0.277	1.19	1169	0.8	1738
80	0	0	0	0.277	1.38	1004	0.88	1576
90	0	0	0	0.277	1.6	864	0.98	1416
100	0	0	0	0.277	1.85	750	1.1	1260
110	0	0	0	0.277	2.09	661	1.25	1112
120	0	0	0	0.277	2.2	629	1.42	976
130	0	0	0	0.277	2.31	599	1.62	856
167	0	0	0	0.277	2.75	505	2.48	558
212	0	0	0	0.277	3.29	422	3.14	441

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.90

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.911	4.53	2265	4.27	2400*
20	0	0	0	0.277	1.7	1831	1.47	2127
30	0	0	0	0.277	1.9	1640	1.58	1977
40	0	0	0	0.277	2.13	1462	1.71	1827
50	0	0	0	0.277	2.39	1302	1.86	1680
60	0	0	0	0.277	2.69	1161	2.03	1537
70	0	0	0	0.277	3	1039	2.23	1400
80	0	0	0	0.277	3.33	937	2.45	1271
90	0	0	0	0.277	3.66	851	2.7	1153
100	0	0	0	0.277	4	780	2.98	1046
110	0	0	0	0.277	4.33	721	3.27	953
120	0	0	0	0.277	4.65	671	3.58	872
130	0	0	0	0.277	4.85	643	3.89	803
167	0	0	0	0.277	5.44	574	5.01	622
212	0	0	0	0.277	6.14	509	6	521

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.911	7.79	2342	7.6	2400*
20	0	0	0	0.277	3.95	1403	3.38	1640
30	0	0	0	0.277	4.33	1281	3.65	1519
40	0	0	0	0.277	4.72	1174	3.95	1405
50	0	0	0	0.277	5.13	1081	4.27	1299
60	0	0	0	0.277	5.53	1002	4.6	1204
70	0	0	0	0.277	5.94	934	4.96	1118
80	0	0	0	0.277	6.34	875	5.32	1041
90	0	0	0	0.277	6.73	825	5.69	974
100	0	0	0	0.277	7.11	780	6.06	914
110	0	0	0	0.277	7.48	742	6.43	862
120	0	0	0	0.277	7.84	707	6.8	816
130	0	0	0	0.277	8.2	677	7.16	775
167	0	0	0	0.277	8.97	619	8.43	658
212	0	0	0	0.277	9.8	567	9.67	574

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.91

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.911	12.01	2375	11.89	2400*
20	0	0	0	0.277	7.76	1117	6.91	1254
30	0	0	0	0.277	8.22	1054	7.32	1183
40	0	0	0	0.277	8.68	998	7.75	1118
50	0	0	0	0.277	9.14	949	8.17	1060
60	0	0	0	0.277	9.58	905	8.6	1008
70	0	0	0	0.277	10.01	866	9.02	961
80	0	0	0	0.277	10.43	831	9.43	919
90	0	0	0	0.277	10.85	799	9.84	881
100	0	0	0	0.277	11.25	771	10.25	846
110	0	0	0	0.277	11.65	745	10.65	815
120	0	0	0	0.277	12.03	721	11.04	786
130	0	0	0	0.277	12.41	699	11.42	760
167	0	0	0	0.277	13.41	648	12.78	679
212	0	0	0	0.277	14.32	606	14.21	611

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.92

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
150.00	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
175.00	0-5	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
200.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10	0-10
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-2	1-3
175.00	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-3	1-7	1-8
200.00	0-7	0-8	0-8	0-10	0-11	1-1	1-4	1-7	2-1	2-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.93

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4
125.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
150.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-7	0-8
175.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11
200.00	0-7	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-3
225.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-7
250.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-9	1-11

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-6
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-8	0-9	0-10
150.00	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-11	1-0	1-2
175.00	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-3	1-5	1-7
200.00	0-8	0-8	0-9	0-11	1-0	1-2	1-5	1-7	1-10	2-1
225.00	0-10	0-11	1-0	1-2	1-4	1-6	1-9	2-0	2-4	2-8
250.00	1-0	1-1	1-3	1-5	1-7	1-10	2-2	2-6	2-11	3-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.94

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
175.00	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
200.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5
225.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10
250.00	1-0	1-1	1-2	1-3	1-5	1-7	1-8	1-11	2-1	2-3
275.00	1-3	1-4	1-5	1-7	1-8	1-10	2-1	2-3	2-6	2-9
300.00	1-6	1-7	1-8	1-10	2-0	2-3	2-5	2-8	3-0	3-3
325.00	1-9	1-10	2-0	2-2	2-5	2-7	2-11	3-2	3-6	3-10
350.00	2-0	2-2	2-4	2-6	2-9	3-0	3-4	3-8	4-1	4-5
375.00	2-3	2-6	2-8	2-11	3-2	3-6	3-10	4-3	4-8	5-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
175.00	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4	1-6
200.00	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-8	1-9	1-11
225.00	0-11	1-1	1-2	1-4	1-6	1-8	1-10	2-1	2-3	2-5
250.00	1-2	1-4	1-6	1-8	1-10	2-1	2-4	2-7	2-9	3-0
275.00	1-5	1-7	1-9	2-0	2-3	2-6	2-10	3-1	3-4	3-8
300.00	1-8	1-11	2-2	2-5	2-8	3-0	3-4	3-8	4-0	4-4
325.00	2-0	2-3	2-6	2-10	3-2	3-6	3-11	4-4	4-8	5-1
350.00	2-4	2-7	2-11	3-3	3-8	4-1	4-6	5-0	5-5	5-11
375.00	2-8	3-0	3-4	3-9	4-2	4-8	5-2	5-9	6-3	6-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.95

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
225.00	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-10	1-11	2-0
250.00	1-4	1-5	1-6	1-8	1-10	1-11	2-1	2-3	2-4	2-6
275.00	1-7	1-9	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0
300.00	1-11	2-1	2-3	2-5	2-7	2-9	3-0	3-2	3-5	3-7
325.00	2-3	2-5	2-7	2-10	3-0	3-3	3-6	3-9	4-0	4-3
350.00	2-7	2-10	3-0	3-3	3-6	3-10	4-1	4-4	4-8	4-11
375.00	3-0	3-2	3-6	3-9	4-1	4-4	4-8	5-0	5-4	5-8
400.00	3-5	3-8	3-11	4-3	4-7	5-0	5-4	5-8	6-1	6-5
425.00	3-10	4-1	4-5	4-10	5-2	5-7	6-0	6-5	6-10	7-3
450.00	4-3	4-7	5-0	5-5	5-10	6-3	6-9	7-2	7-8	8-2
475.00	4-9	5-2	5-7	6-0	6-6	7-0	7-6	8-0	8-7	9-1
500.00	5-3	5-8	6-2	6-8	7-2	7-9	8-4	8-11	9-6	10-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-8	1-9	1-10
225.00	1-3	1-4	1-6	1-7	1-9	1-11	2-0	2-2	2-3	2-4
250.00	1-7	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-9	2-11
275.00	1-10	2-1	2-3	2-5	2-7	2-10	3-0	3-2	3-4	3-6
300.00	2-3	2-5	2-8	2-11	3-1	3-4	3-7	3-9	4-0	4-2
325.00	2-7	2-10	3-1	3-5	3-8	3-11	4-2	4-5	4-8	4-11
350.00	3-0	3-4	3-7	3-11	4-3	4-7	4-10	5-2	5-5	5-9
375.00	3-6	3-10	4-2	4-6	4-10	5-3	5-7	5-11	6-3	6-7
400.00	3-11	4-4	4-9	5-2	5-6	5-11	6-4	6-9	7-1	7-6
425.00	4-5	4-11	5-4	5-9	6-3	6-8	7-2	7-7	8-0	8-5
450.00	5-0	5-6	6-0	6-6	7-0	7-6	8-0	8-6	9-0	9-6
475.00	5-7	6-1	6-8	7-3	7-10	8-4	8-11	9-6	10-0	10-7
500.00	6-2	6-9	7-5	8-0	8-8	9-3	9-11	10-6	11-1	11-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.96

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-6	2-7	2-8
275.00	2-1	2-3	2-4	2-6	2-7	2-9	2-10	3-0	3-1	3-3
300.00	2-6	2-8	2-9	2-11	3-1	3-3	3-5	3-7	3-8	3-10
325.00	2-11	3-1	3-3	3-5	3-8	3-10	4-0	4-2	4-4	4-6
350.00	3-5	3-7	3-10	4-0	4-3	4-5	4-7	4-10	5-0	5-3
375.00	3-11	4-1	4-4	4-7	4-10	5-1	5-4	5-6	5-9	6-0
400.00	4-5	4-8	4-11	5-3	5-6	5-9	6-0	6-4	6-7	6-10
425.00	5-0	5-3	5-7	5-11	6-3	6-6	6-10	7-1	7-5	7-8
450.00	5-7	5-11	6-3	6-7	7-0	7-4	7-8	8-0	8-4	8-7
475.00	6-3	6-7	7-0	7-4	7-9	8-2	8-6	8-11	9-3	9-7
500.00	6-11	7-4	7-9	8-2	8-7	9-0	9-5	9-10	10-3	10-8
525.00	7-7	8-1	8-6	9-0	9-6	9-11	10-5	10-10	11-4	11-9
550.00	8-4	8-10	9-4	9-11	10-5	10-11	11-5	11-11	12-5	12-11
575.00	9-2	9-8	10-3	10-10	11-4	11-11	12-6	13-0	13-7	14-1
600.00	9-11	10-7	11-2	11-9	12-5	13-0	13-7	14-2	14-9	15-4
625.00	10-10	11-5	12-1	12-9	13-5	14-1	14-9	15-5	16-0	16-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-9	2-10	2-11
275.00	2-4	2-6	2-8	2-9	2-11	3-0	3-2	3-3	3-5	3-6
300.00	2-10	3-0	3-2	3-3	3-5	3-7	3-9	3-11	4-1	4-2
325.00	3-3	3-6	3-8	3-10	4-1	4-3	4-5	4-7	4-9	4-11
350.00	3-10	4-0	4-3	4-6	4-8	4-11	5-1	5-4	5-6	5-8
375.00	4-4	4-8	4-11	5-2	5-5	5-8	5-10	6-1	6-4	6-7
400.00	5-0	5-3	5-7	5-10	6-2	6-5	6-8	6-11	7-2	7-5
425.00	5-7	5-11	6-3	6-7	6-11	7-3	7-6	7-10	8-2	8-5
450.00	6-3	6-8	7-0	7-5	7-9	8-1	8-5	8-9	9-1	9-5
475.00	7-0	7-5	7-10	8-3	8-8	9-0	9-5	9-9	10-2	10-6
500.00	7-9	8-3	8-8	9-2	9-7	10-0	10-5	10-10	11-3	11-8
525.00	8-7	9-1	9-7	10-1	10-7	11-0	11-6	12-0	12-5	12-10
550.00	9-5	9-11	10-6	11-1	11-7	12-1	12-8	13-2	13-7	14-1
575.00	10-3	10-11	11-6	12-1	12-8	13-3	13-10	14-4	14-11	15-5
600.00	11-2	11-10	12-6	13-2	13-10	14-5	15-0	15-8	16-3	16-9
625.00	12-1	12-10	13-7	14-3	15-0	15-8	16-4	16-11	17-7	18-2

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SHEET 97 OF 129

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.97

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.504	1.91	985	1.88	1000*
20	0	0	0	0.277	1.13	306	1.01	343
30	0	0	0	0.277	1.28	272	1.15	301
40	0	0	0	0.277	1.41	246	1.29	269
50	0	0	0	0.277	1.54	226	1.42	244
60	0	0	0	0.277	1.65	210	1.54	225
70	0	0	0	0.277	1.77	196	1.66	209
80	0	0	0	0.277	1.86	187	1.76	196
90	0	0	0	0.277	1.92	180	1.87	186
100	0	0	0	0.277	1.98	175	1.96	176
110	0	0	0	0.277	2.04	170	2.03	171
120	0	0	0	0.277	2.1	165	2.09	166
130	0	0	0	0.277	2.16	160	2.14	162
167	0	0	0	0.277	2.37	146	2.35	148
212	0	0	0	0.277	2.6	133	2.58	134

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.504	7.59	996	7.56	1000*
20	0	0	0	0.277	6.88	202	6.76	206
30	0	0	0	0.277	6.99	199	6.89	202
40	0	0	0	0.277	7.11	196	7	199
50	0	0	0	0.277	7.22	193	7.12	196
60	0	0	0	0.277	7.33	190	7.23	193
70	0	0	0	0.277	7.44	187	7.33	190
80	0	0	0	0.277	7.53	185	7.44	187
90	0	0	0	0.277	7.6	183	7.55	185
100	0	0	0	0.277	7.67	182	7.65	182
110	0	0	0	0.277	7.74	180	7.72	180
120	0	0	0	0.277	7.81	178	7.79	179
130	0	0	0	0.277	7.88	177	7.86	177
167	0	0	0	0.277	8.12	172	8.1	172
212	0	0	0	0.277	8.41	166	8.39	166

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.98

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.504	17.17	998	17.14	1000*
20	0	0	0	0.277	16.47	192	16.35	193
30	0	0	0	0.277	16.58	190	16.48	191
40	0	0	0	0.277	16.69	189	16.59	190
50	0	0	0	0.277	16.8	188	16.7	189
60	0	0	0	0.277	16.91	187	16.8	188
70	0	0	0	0.277	17.01	186	16.91	187
80	0	0	0	0.277	17.11	185	17.02	185
90	0	0	0	0.277	17.18	184	17.12	184
100	0	0	0	0.277	17.25	183	17.23	183
110	0	0	0	0.277	17.32	182	17.3	183
120	0	0	0	0.277	17.39	182	17.37	182
130	0	0	0	0.277	17.46	181	17.44	181
167	0	0	0	0.277	17.72	178	17.7	179
212	0	0	0	0.277	18.02	175	18	176

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.504	30.82	999	30.79	1000*
20	0	0	0	0.277	30.12	188	30.01	189
30	0	0	0	0.277	30.23	187	30.13	188
40	0	0	0	0.277	30.34	187	30.24	187
50	0	0	0	0.277	30.45	186	30.35	187
60	0	0	0	0.277	30.55	186	30.45	186
70	0	0	0	0.277	30.66	185	30.56	186
80	0	0	0	0.277	30.76	184	30.67	185
90	0	0	0	0.277	30.83	184	30.77	184
100	0	0	0	0.277	30.9	184	30.88	184
110	0	0	0	0.277	30.97	183	30.95	183
120	0	0	0	0.277	31.04	183	31.02	183
130	0	0	0	0.277	31.11	182	31.09	182
167	0	0	0	0.277	31.37	181	31.35	181
212	0	0	0	0.277	31.69	179	31.67	179

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.99

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.504	48.81	999	48.78	1000*
20	0	0	0	0.277	48.12	187	48.01	187
30	0	0	0	0.277	48.23	186	48.13	187
40	0	0	0	0.277	48.34	186	48.24	186
50	0	0	0	0.277	48.44	185	48.35	186
60	0	0	0	0.277	48.55	185	48.45	185
70	0	0	0	0.277	48.66	185	48.56	185
80	0	0	0	0.277	48.75	184	48.66	185
90	0	0	0	0.277	48.83	184	48.77	184
100	0	0	0	0.277	48.9	184	48.87	184
110	0	0	0	0.277	48.97	184	48.95	184
120	0	0	0	0.277	49.04	183	49.02	183
130	0	0	0	0.277	49.11	183	49.09	183
167	0	0	0	0.277	49.37	182	49.35	182
212	0	0	0	0.277	49.69	181	49.67	181

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.100

Stringing Sag Table Using Initial Sag								Ruling Span:		100.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-1	1-2
100.00	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-10	2-0	2-0
125.00	1-7	1-10	2-0	2-3	2-5	2-7	2-9	2-11	3-1	3-2
150.00	2-3	2-7	2-11	3-2	3-6	3-9	4-0	4-2	4-5	4-7
175.00	3-1	3-6	3-11	4-4	4-9	5-1	5-5	5-9	6-0	6-3
200.00	4-0	4-7	5-2	5-8	6-2	6-8	7-1	7-6	7-10	8-1

Stringing Sag Table Using Final Sag								Ruling Span:		100.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-1	1-1	1-2
100.00	1-2	1-3	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1
125.00	1-9	2-0	2-2	2-5	2-7	2-9	2-11	3-0	3-1	3-2
150.00	2-7	2-10	3-2	3-5	3-9	4-0	4-2	4-4	4-6	4-7
175.00	3-6	3-11	4-4	4-8	5-1	5-5	5-8	5-11	6-1	6-3
200.00	4-6	5-1	5-8	6-2	6-8	7-1	7-5	7-8	7-11	8-2

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STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.101

Stringing Sag Table Using Initial Sag									Ruling Span:	200.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11	1-11
125.00	2-8	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0	3-0
150.00	3-10	3-10	3-11	4-0	4-1	4-1	4-2	4-3	4-4	4-4
175.00	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11
200.00	6-9	6-11	7-0	7-1	7-3	7-4	7-5	7-7	7-8	7-9
225.00	8-7	8-9	8-10	9-0	9-2	9-3	9-5	9-7	9-8	9-9
250.00	10-7	10-9	10-11	11-2	11-4	11-6	11-8	11-10	12-0	12-1

Stringing Sag Table Using Final Sag									Ruling Span:	200.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11	1-11	1-11
125.00	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-0
150.00	3-10	3-11	4-0	4-1	4-1	4-2	4-3	4-3	4-4	4-4
175.00	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-10	5-11
200.00	6-11	7-0	7-1	7-3	7-4	7-5	7-6	7-7	7-8	7-9
225.00	8-8	8-10	9-0	9-2	9-3	9-5	9-6	9-8	9-9	9-10
250.00	10-9	10-11	11-1	11-3	11-6	11-8	11-9	11-11	12-0	12-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.102

Stringing Sag Table Using Initial Sag								Ruling Span:		300.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-1	4-1	4-2	4-2	4-2	4-3	4-3	4-3	4-4	4-4
175.00	5-7	5-7	5-8	5-8	5-8	5-9	5-9	5-10	5-10	5-10
200.00	7-3	7-4	7-4	7-5	7-5	7-6	7-7	7-7	7-8	7-8
225.00	9-2	9-3	9-4	9-4	9-5	9-6	9-7	9-7	9-8	9-9
250.00	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	11-11	12-0
275.00	13-9	13-10	13-11	14-0	14-1	14-2	14-3	14-5	14-6	14-6
300.00	16-4	16-6	16-7	16-8	16-10	16-11	17-0	17-1	17-3	17-4
325.00	19-2	19-4	19-6	19-7	19-9	19-10	20-0	20-1	20-3	20-4
350.00	22-3	22-6	22-7	22-9	22-11	23-1	23-2	23-4	23-6	23-7
375.00	25-7	25-10	26-0	26-2	26-4	26-6	26-8	26-10	27-0	27-1

Stringing Sag Table Using Final Sag								Ruling Span:		300.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-1	4-2	4-2	4-2	4-3	4-3	4-3	4-3	4-4	4-4
175.00	5-7	5-8	5-8	5-8	5-9	5-9	5-10	5-10	5-10	5-11
200.00	7-4	7-4	7-5	7-5	7-6	7-7	7-7	7-7	7-8	7-8
225.00	9-3	9-4	9-4	9-5	9-6	9-7	9-7	9-8	9-8	9-9
250.00	11-5	11-6	11-7	11-8	11-9	11-10	11-10	11-11	12-0	12-0
275.00	13-10	13-11	14-0	14-1	14-2	14-3	14-4	14-5	14-6	14-7
300.00	16-6	16-7	16-8	16-10	16-11	17-0	17-1	17-2	17-3	17-4
325.00	19-4	19-6	19-7	19-9	19-10	20-0	20-1	20-2	20-3	20-4
350.00	22-5	22-7	22-9	22-11	23-1	23-2	23-4	23-5	23-6	23-7
375.00	25-9	26-0	26-2	26-4	26-6	26-8	26-10	26-11	27-0	27-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.103

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-6	7-6	7-6	7-7	7-7	7-7	7-7	7-8	7-8	7-8
225.00	9-5	9-6	9-6	9-7	9-7	9-7	9-8	9-8	9-9	9-9
250.00	11-8	11-9	11-9	11-10	11-10	11-11	11-11	12-0	12-0	12-0
275.00	14-2	14-2	14-3	14-3	14-4	14-5	14-5	14-6	14-6	14-7
300.00	16-10	16-11	16-11	17-0	17-1	17-2	17-2	17-3	17-4	17-4
325.00	19-9	19-10	19-11	20-0	20-1	20-1	20-2	20-3	20-4	20-5
350.00	22-11	23-0	23-1	23-2	23-3	23-4	23-5	23-6	23-7	23-8
375.00	26-4	26-6	26-7	26-8	26-9	26-10	26-11	27-0	27-1	27-2
400.00	30-0	30-2	30-3	30-4	30-5	30-7	30-8	30-9	30-11	30-11
425.00	33-11	34-1	34-2	34-4	34-5	34-6	34-8	34-9	34-11	35-0
450.00	38-1	38-3	38-4	38-6	38-7	38-9	38-11	39-0	39-2	39-3
475.00	42-5	42-7	42-9	42-11	43-1	43-3	43-5	43-6	43-8	43-9
500.00	47-1	47-3	47-5	47-7	47-9	47-11	48-1	48-4	48-6	48-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-6	7-6	7-6	7-7	7-7	7-7	7-8	7-8	7-8	7-8
225.00	9-6	9-6	9-7	9-7	9-7	9-8	9-8	9-8	9-9	9-9
250.00	11-9	11-9	11-10	11-10	11-11	11-11	11-11	12-0	12-0	12-0
275.00	14-2	14-3	14-3	14-4	14-5	14-5	14-6	14-6	14-7	14-7
300.00	16-11	16-11	17-0	17-1	17-2	17-2	17-3	17-3	17-4	17-4
325.00	19-10	19-11	20-0	20-1	20-1	20-2	20-3	20-4	20-4	20-5
350.00	23-0	23-1	23-2	23-3	23-4	23-5	23-6	23-7	23-7	23-8
375.00	26-5	26-7	26-8	26-9	26-10	26-11	27-0	27-1	27-2	27-2
400.00	30-1	30-3	30-4	30-5	30-7	30-8	30-9	30-10	30-11	31-0
425.00	34-0	34-2	34-3	34-5	34-6	34-8	34-9	34-10	34-11	35-0
450.00	38-2	38-4	38-6	38-7	38-9	38-11	39-0	39-1	39-2	39-3
475.00	42-7	42-9	42-11	43-1	43-3	43-5	43-6	43-7	43-9	43-10
500.00	47-3	47-5	47-7	47-9	47-11	48-1	48-3	48-5	48-6	48-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.104

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-11	11-11	11-11	12-0	12-0	12-0	12-1	12-1	12-1	12-1
275.00	14-5	14-5	14-6	14-6	14-6	14-7	14-7	14-8	14-8	14-8
300.00	17-2	17-2	17-3	17-3	17-4	17-4	17-5	17-5	17-5	17-6
325.00	20-2	20-2	20-3	20-3	20-4	20-4	20-5	20-6	20-6	20-6
350.00	23-5	23-5	23-6	23-7	23-7	23-8	23-8	23-9	23-10	23-10
375.00	26-10	26-11	27-0	27-1	27-1	27-2	27-3	27-3	27-4	27-5
400.00	30-7	30-8	30-9	30-10	30-10	30-11	31-0	31-1	31-2	31-2
425.00	34-7	34-8	34-9	34-10	34-11	35-0	35-0	35-1	35-2	35-3
450.00	38-10	38-11	39-0	39-1	39-2	39-3	39-4	39-5	39-6	39-7
475.00	43-3	43-5	43-6	43-7	43-8	43-9	43-10	44-0	44-1	44-1
500.00	48-0	48-2	48-3	48-4	48-5	48-7	48-8	48-9	48-10	48-11
525.00	53-0	53-2	53-3	53-4	53-6	53-7	53-9	53-10	53-11	54-0
550.00	58-3	58-5	58-6	58-8	58-9	58-11	59-0	59-2	59-4	59-5
575.00	63-9	63-11	64-1	64-2	64-4	64-6	64-7	64-9	64-11	65-0
600.00	69-6	69-8	69-10	70-0	70-2	70-4	70-5	70-7	70-9	70-10
625.00	75-6	75-9	75-11	76-1	76-3	76-5	76-7	76-9	76-11	77-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-11	11-11	12-0	12-0	12-0	12-1	12-1	12-1	12-1	12-2
275.00	14-5	14-6	14-6	14-6	14-7	14-7	14-7	14-8	14-8	14-8
300.00	17-2	17-3	17-3	17-4	17-4	17-5	17-5	17-5	17-6	17-6
325.00	20-2	20-3	20-3	20-4	20-4	20-5	20-5	20-6	20-6	20-6
350.00	23-5	23-6	23-6	23-7	23-8	23-8	23-9	23-9	23-10	23-10
375.00	26-11	27-0	27-1	27-1	27-2	27-3	27-3	27-4	27-4	27-5
400.00	30-8	30-9	30-10	30-10	30-11	31-0	31-1	31-1	31-2	31-2
425.00	34-8	34-9	34-10	34-11	35-0	35-0	35-1	35-2	35-2	35-3
450.00	38-11	39-0	39-1	39-2	39-3	39-4	39-5	39-5	39-6	39-7
475.00	43-5	43-6	43-7	43-8	43-9	43-10	43-11	44-0	44-1	44-2
500.00	48-1	48-3	48-4	48-5	48-7	48-8	48-9	48-10	48-11	49-0
525.00	53-1	53-3	53-4	53-6	53-7	53-9	53-10	53-11	54-0	54-1
550.00	58-4	58-6	58-8	58-9	58-11	59-0	59-2	59-3	59-4	59-5
575.00	63-11	64-0	64-2	64-4	64-6	64-7	64-9	64-10	64-11	65-0
600.00	69-8	69-10	70-0	70-2	70-3	70-5	70-7	70-8	70-10	70-11
625.00	75-8	75-10	76-0	76-3	76-5	76-7	76-9	76-10	76-11	77-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.504	1.3	1446	1.25	1500*
20	0	0	0	0.277	0.29	1214	0.26	1345
30	0	0	0	0.277	0.35	999	0.3	1173
40	0	0	0	0.277	0.43	801	0.35	1002
50	0	0	0	0.277	0.55	630	0.41	838
60	0	0	0	0.277	0.69	498	0.51	686
70	0	0	0	0.277	0.85	405	0.62	555
80	0	0	0	0.277	1.01	342	0.76	454
90	0	0	0	0.277	1.14	303	0.91	379
100	0	0	0	0.277	1.22	284	1.06	326
110	0	0	0	0.277	1.3	267	1.21	287
120	0	0	0	0.277	1.37	253	1.33	260
130	0	0	0	0.277	1.44	240	1.41	246
167	0	0	0	0.277	1.71	203	1.67	207
212	0	0	0	0.277	2	174	1.96	177

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.504	5.03	1497	5.02	1500*
20	0	0	0	0.277	3.59	386	3.38	410
30	0	0	0	0.277	3.79	366	3.58	387
40	0	0	0	0.277	3.98	348	3.77	368
50	0	0	0	0.277	4.17	333	3.96	350
60	0	0	0	0.277	4.35	319	4.14	335
70	0	0	0	0.277	4.52	307	4.32	321
80	0	0	0	0.277	4.69	296	4.49	309
90	0	0	0	0.277	4.86	286	4.65	298
100	0	0	0	0.277	4.97	280	4.81	288
110	0	0	0	0.277	5.06	274	4.97	279
120	0	0	0	0.277	5.16	269	5.12	271
130	0	0	0	0.277	5.26	264	5.22	266
167	0	0	0	0.277	5.6	248	5.57	250
212	0	0	0	0.277	5.99	232	5.96	233

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.106

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.504	11.34	1500	11.34	1500*
20	0	0	0	0.277	9.97	314	9.79	320
30	0	0	0	0.277	10.15	308	9.96	314
40	0	0	0	0.277	10.32	303	10.14	309
50	0	0	0	0.277	10.5	298	10.31	304
60	0	0	0	0.277	10.67	294	10.48	299
70	0	0	0	0.277	10.83	289	10.64	294
80	0	0	0	0.277	11	285	10.81	290
90	0	0	0	0.277	11.16	281	10.97	286
100	0	0	0	0.277	11.28	278	11.13	282
110	0	0	0	0.277	11.38	275	11.29	278
120	0	0	0	0.277	11.48	273	11.44	274
130	0	0	0	0.277	11.58	271	11.55	271
167	0	0	0	0.277	11.95	262	11.92	263
212	0	0	0	0.277	12.39	253	12.36	254

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.504	20.25	1500	20.25	1500*
20	0	0	0	0.277	18.91	296	18.73	298
30	0	0	0	0.277	19.08	293	18.9	296
40	0	0	0	0.277	19.25	291	19.07	293
50	0	0	0	0.277	19.41	288	19.23	291
60	0	0	0	0.277	19.58	286	19.4	288
70	0	0	0	0.277	19.74	283	19.56	286
80	0	0	0	0.277	19.91	281	19.72	284
90	0	0	0	0.277	20.07	279	19.88	281
100	0	0	0	0.277	20.19	277	20.04	279
110	0	0	0	0.277	20.29	276	20.2	277
120	0	0	0	0.277	20.39	274	20.36	275
130	0	0	0	0.277	20.5	273	20.47	273
167	0	0	0	0.277	20.88	268	20.85	269
212	0	0	0	0.277	21.33	263	21.31	263

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.107

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.504	31.83	1500	31.83	1500*
20	0	0	0	0.277	30.5	288	30.33	290
30	0	0	0	0.277	30.67	287	30.49	288
40	0	0	0	0.277	30.83	285	30.65	287
50	0	0	0	0.277	31	284	30.82	285
60	0	0	0	0.277	31.16	282	30.98	284
70	0	0	0	0.277	31.32	281	31.14	282
80	0	0	0	0.277	31.49	279	31.3	281
90	0	0	0	0.277	31.65	278	31.46	280
100	0	0	0	0.277	31.76	277	31.62	278
110	0	0	0	0.277	31.87	276	31.78	277
120	0	0	0	0.277	31.98	275	31.94	275
130	0	0	0	0.277	32.08	274	32.05	274
167	0	0	0	0.277	32.47	271	32.44	271
212	0	0	0	0.277	32.93	267	32.91	268

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.108

Stringing Sag Table Using Initial Sag								Ruling Span:		100
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2
125.00	0-5	0-6	0-6	0-8	0-9	1-0	1-2	1-5	1-8	1-11
150.00	0-7	0-8	0-9	0-11	1-2	1-5	1-9	2-1	2-5	2-9
175.00	0-9	0-11	1-1	1-3	1-7	1-11	2-4	2-10	3-3	3-8
200.00	1-0	1-2	1-5	1-8	2-0	2-6	3-1	3-8	4-3	4-10

Stringing Sag Table Using Final Sag								Ruling Span:		100
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9
100.00	0-3	0-4	0-5	0-7	0-8	0-10	1-0	1-2	1-3	1-4
125.00	0-5	0-6	0-8	0-10	1-1	1-4	1-7	1-9	1-11	2-0
150.00	0-8	0-9	1-0	1-3	1-7	1-11	2-3	2-7	2-9	2-11
175.00	0-10	1-1	1-4	1-8	2-2	2-7	3-1	3-6	3-9	4-0
200.00	1-2	1-5	1-9	2-2	2-9	3-5	4-1	4-7	4-11	5-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.109

Stringing Sag Table Using Initial Sag								Ruling Span:		200
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-11	1-11
150.00	1-11	2-0	2-1	2-3	2-4	2-5	2-6	2-7	2-8	2-10
175.00	2-7	2-9	2-11	3-0	3-2	3-4	3-5	3-7	3-8	3-10
200.00	3-5	3-7	3-9	4-0	4-2	4-4	4-6	4-8	4-10	5-0
225.00	4-3	4-6	4-9	5-0	5-3	5-6	5-8	5-11	6-1	6-4
250.00	5-3	5-7	5-11	6-2	6-6	6-9	7-0	7-3	7-6	7-9

Stringing Sag Table Using Final Sag								Ruling Span:		200
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-3
125.00	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11	2-0
150.00	2-0	2-2	2-3	2-4	2-5	2-7	2-8	2-9	2-10	2-10
175.00	2-9	2-11	3-1	3-2	3-4	3-6	3-7	3-9	3-10	3-11
200.00	3-7	3-9	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-1
225.00	4-7	4-10	5-1	5-3	5-6	5-9	5-11	6-2	6-3	6-5
250.00	5-7	5-11	6-3	6-6	6-10	7-1	7-4	7-7	7-9	7-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.110

Stringing Sag Table Using Initial Sag								Ruling Span:		300
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-10
175.00	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10
200.00	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-10	4-11	5-0
225.00	5-6	5-7	5-8	5-10	5-11	6-0	6-1	6-2	6-3	6-4
250.00	6-10	6-11	7-0	7-2	7-3	7-5	7-6	7-7	7-9	7-10
275.00	8-3	8-4	8-6	8-8	8-10	8-11	9-1	9-3	9-4	9-6
300.00	9-9	10-0	10-2	10-4	10-6	10-8	10-10	11-0	11-2	11-3
325.00	11-6	11-8	11-11	12-1	12-4	12-6	12-8	12-11	13-1	13-3
350.00	13-4	13-7	13-10	14-0	14-3	14-6	14-9	14-11	15-2	15-4
375.00	15-4	15-7	15-10	16-1	16-5	16-8	16-11	17-2	17-5	17-8

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Stringing Sag Table Using Final Sag								Ruling Span:		300
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-6	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-10	2-10
175.00	3-5	3-5	3-6	3-7	3-8	3-8	3-9	3-10	3-10	3-10
200.00	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-11	5-0	5-1
225.00	5-7	5-8	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5
250.00	6-11	7-1	7-2	7-3	7-5	7-6	7-8	7-9	7-10	7-11
275.00	8-5	8-6	8-8	8-10	9-0	9-1	9-3	9-5	9-6	9-7
300.00	10-0	10-2	10-4	10-6	10-8	10-10	11-0	11-2	11-3	11-5
325.00	11-8	11-11	12-1	12-4	12-6	12-9	12-11	13-1	13-3	13-4
350.00	13-7	13-10	14-1	14-4	14-6	14-9	15-0	15-2	15-4	15-6
375.00	15-7	15-10	16-2	16-5	16-8	16-11	17-2	17-5	17-8	17-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.111

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Stringing Sag Table Using Initial Sag — Ruling Span: 400

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-8	4-9	4-9	4-10	4-10	4-11	4-11	4-11	5-0	5-0
225.00	5-11	6-0	6-0	6-1	6-1	6-2	6-3	6-3	6-4	6-5
250.00	7-4	7-4	7-5	7-6	7-7	7-8	7-8	7-9	7-10	7-10
275.00	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-5	9-6
300.00	10-6	10-7	10-9	10-10	10-11	11-0	11-1	11-2	11-3	11-4
325.00	12-4	12-6	12-7	12-8	12-9	12-11	13-0	13-1	13-3	13-4
350.00	14-4	14-6	14-7	14-9	14-10	15-0	15-1	15-3	15-4	15-5
375.00	16-5	16-7	16-9	16-11	17-0	17-2	17-4	17-6	17-7	17-9
400.00	18-9	18-11	19-1	19-3	19-5	19-7	19-9	19-11	20-0	20-2
425.00	21-2	21-4	21-6	21-9	21-11	22-1	22-3	22-5	22-8	22-10
450.00	23-9	23-11	24-2	24-4	24-7	24-9	25-0	25-2	25-5	25-7
475.00	26-5	26-8	26-11	27-2	27-5	27-7	27-10	28-1	28-4	28-6
500.00	29-4	29-7	29-10	30-1	30-4	30-7	30-10	31-1	31-4	31-7

Stringing Sag Table Using Final Sag — Ruling Span: 400

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-9	4-9	4-10	4-10	4-11	4-11	5-0	5-0	5-0	5-1
225.00	6-0	6-0	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5
250.00	7-4	7-5	7-6	7-7	7-8	7-8	7-9	7-10	7-10	7-11
275.00	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6	9-6	9-7
300.00	10-7	10-9	10-10	10-11	11-0	11-1	11-2	11-3	11-4	11-5
325.00	12-6	12-7	12-8	12-10	12-11	13-0	13-2	13-3	13-4	13-5
350.00	14-6	14-7	14-9	14-10	15-0	15-1	15-3	15-4	15-5	15-6
375.00	16-7	16-9	16-11	17-1	17-2	17-4	17-6	17-8	17-9	17-10
400.00	18-11	19-1	19-3	19-5	19-7	19-9	19-11	20-1	20-2	20-3
425.00	21-4	21-7	21-9	21-11	22-1	22-4	22-6	22-8	22-10	22-11
450.00	23-11	24-2	24-5	24-7	24-10	25-0	25-3	25-5	25-7	25-8
475.00	26-8	26-11	27-2	27-5	27-8	27-11	28-1	28-4	28-6	28-8
500.00	29-7	29-10	30-1	30-5	30-8	30-11	31-2	31-5	31-7	31-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.112

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Stringing Sag Table Using Initial Sag — Ruling Span: 500

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-10	7-11
275.00	9-2	9-2	9-3	9-3	9-4	9-5	9-5	9-6	9-6	9-7
300.00	10-11	10-11	11-0	11-1	11-1	11-2	11-3	11-3	11-4	11-5
325.00	12-9	12-10	12-11	13-0	13-1	13-1	13-2	13-3	13-4	13-5
350.00	14-10	14-11	15-0	15-1	15-2	15-3	15-4	15-4	15-5	15-6
375.00	17-0	17-1	17-2	17-4	17-5	17-6	17-7	17-8	17-9	17-10
400.00	19-5	19-6	19-7	19-8	19-9	19-11	20-0	20-1	20-2	20-4
425.00	21-11	22-0	22-1	22-3	22-4	22-6	22-7	22-8	22-10	22-11
450.00	24-7	24-8	24-10	24-11	25-1	25-2	25-4	25-5	25-7	25-9
475.00	27-4	27-6	27-8	27-10	27-11	28-1	28-3	28-5	28-6	28-8
500.00	30-4	30-6	30-8	30-10	31-0	31-2	31-4	31-6	31-7	31-9
525.00	33-5	33-8	33-10	34-0	34-2	34-4	34-6	34-8	34-11	35-1
550.00	36-9	36-11	37-2	37-4	37-6	37-9	37-11	38-1	38-4	38-6
575.00	40-2	40-5	40-7	40-10	41-0	41-3	41-6	41-8	41-11	42-1
600.00	43-9	44-0	44-3	44-6	44-9	44-11	45-2	45-5	45-8	45-10
625.00	47-6	47-9	48-0	48-3	48-7	48-10	49-1	49-4	49-7	49-10

Stringing Sag Table Using Final Sag — Ruling Span: 500

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-11	7-11	7-11
275.00	9-2	9-3	9-4	9-4	9-5	9-5	9-6	9-6	9-7	9-7
300.00	10-11	11-0	11-1	11-1	11-2	11-3	11-4	11-4	11-5	11-5
325.00	12-10	12-11	13-0	13-1	13-2	13-2	13-3	13-4	13-5	13-5
350.00	14-11	15-0	15-1	15-2	15-3	15-4	15-5	15-6	15-6	15-7
375.00	17-1	17-3	17-4	17-5	17-6	17-7	17-8	17-9	17-10	17-11
400.00	19-6	19-7	19-8	19-10	19-11	20-0	20-1	20-3	20-3	20-4
425.00	22-0	22-2	22-3	22-4	22-6	22-7	22-9	22-10	22-11	23-0
450.00	24-8	24-10	24-11	25-1	25-3	25-4	25-6	25-7	25-8	25-9
475.00	27-6	27-8	27-10	28-0	28-1	28-3	28-5	28-7	28-8	28-9
500.00	30-6	30-8	30-10	31-0	31-2	31-4	31-6	31-8	31-9	31-10
525.00	33-8	33-10	34-0	34-2	34-4	34-7	34-9	34-11	35-0	35-2
550.00	36-11	37-2	37-4	37-7	37-9	37-11	38-2	38-4	38-6	38-7
575.00	40-5	40-7	40-10	41-1	41-3	41-6	41-9	41-11	42-1	42-3
600.00	44-0	44-3	44-6	44-9	45-0	45-3	45-5	45-8	45-10	46-0
625.00	47-9	48-1	48-4	48-7	48-10	49-1	49-4	49-7	49-9	49-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.113

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.504	1.04	1807	0.94	2000*
20	0	0	0	0.277	0.18	1905	0.16	2129
30	0	0	0	0.277	0.21	1673	0.18	1964
40	0	0	0	0.277	0.24	1444	0.19	1796
50	0	0	0	0.277	0.28	1219	0.21	1625
60	0	0	0	0.277	0.34	1004	0.24	1452
70	0	0	0	0.277	0.43	805	0.27	1277
80	0	0	0	0.277	0.55	633	0.31	1102
90	0	0	0	0.277	0.69	501	0.37	931
100	0	0	0	0.277	0.77	447	0.45	768
110	0	0	0	0.277	0.84	413	0.56	623
120	0	0	0	0.277	0.91	382	0.69	504
130	0	0	0	0.277	0.98	354	0.83	415
167	0	0	0	0.277	1.26	275	1.19	292
212	0	0	0	0.277	1.59	218	1.52	228

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.504	3.77	1996	3.76	2000*
20	0	0	0	0.277	1.47	942	1.26	1099
30	0	0	0	0.277	1.7	813	1.43	968
40	0	0	0	0.277	1.95	709	1.63	851
50	0	0	0	0.277	2.21	627	1.84	751
60	0	0	0	0.277	2.46	563	2.07	668
70	0	0	0	0.277	2.71	512	2.31	600
80	0	0	0	0.277	2.95	470	2.55	544
90	0	0	0	0.277	3.17	437	2.78	499
100	0	0	0	0.277	3.39	409	3	462
110	0	0	0	0.277	3.55	391	3.22	431
120	0	0	0	0.277	3.66	379	3.43	405
130	0	0	0	0.277	3.78	367	3.63	382
167	0	0	0	0.277	4.19	331	4.14	335
212	0	0	0	0.277	4.67	297	4.62	301

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.504	8.48	2000	8.48	2000*
20	0	0	0	0.277	6.17	506	5.76	542
30	0	0	0	0.277	6.43	485	6.03	518
40	0	0	0	0.277	6.69	467	6.29	497
50	0	0	0	0.277	6.94	450	6.54	478
60	0	0	0	0.277	7.18	435	6.78	460
70	0	0	0	0.277	7.42	421	7.02	445
80	0	0	0	0.277	7.65	408	7.25	431
90	0	0	0	0.277	7.87	397	7.48	418
100	0	0	0	0.277	8.09	386	7.7	406
110	0	0	0	0.277	8.23	380	7.92	394
120	0	0	0	0.277	8.36	374	8.13	384
130	0	0	0	0.277	8.49	368	8.34	375
167	0	0	0	0.277	8.96	349	8.91	351
212	0	0	0	0.277	9.51	329	9.46	331

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.504	15.12	2000	15.12	2000*
20	0	0	0	0.277	12.89	432	12.51	445
30	0	0	0	0.277	13.13	424	12.75	436
40	0	0	0	0.277	13.37	416	12.98	428
50	0	0	0	0.277	13.6	409	13.22	421
60	0	0	0	0.277	13.84	402	13.45	414
70	0	0	0	0.277	14.06	396	13.68	407
80	0	0	0	0.277	14.29	390	13.9	400
90	0	0	0	0.277	14.51	384	14.12	394
100	0	0	0	0.277	14.72	378	14.34	388
110	0	0	0	0.277	14.86	375	14.55	383
120	0	0	0	0.277	15	372	14.77	377
130	0	0	0	0.277	15.13	368	14.98	372
167	0	0	0	0.277	15.63	357	15.57	358
212	0	0	0	0.277	16.21	344	16.16	345

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.115

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.504	23.71	2000	23.71	2000*
20	0	0	0	0.277	21.51	405	21.14	412
30	0	0	0	0.277	21.75	401	21.37	408
40	0	0	0	0.277	21.98	397	21.6	404
50	0	0	0	0.277	22.2	393	21.82	400
60	0	0	0	0.277	22.43	389	22.05	396
70	0	0	0	0.277	22.65	385	22.27	392
80	0	0	0	0.277	22.87	382	22.49	388
90	0	0	0	0.277	23.09	378	22.71	384
100	0	0	0	0.277	23.3	375	22.92	381
110	0	0	0	0.277	23.44	373	23.14	377
120	0	0	0	0.277	23.58	370	23.35	374
130	0	0	0	0.277	23.71	368	23.56	371
167	0	0	0	0.277	24.22	361	24.17	362
212	0	0	0	0.277	24.82	352	24.77	353

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.116

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Stringing Sag Table Using Initial Sag — Ruling Span: 100

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-7
125.00	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-10
150.00	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-3
175.00	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-5	1-8
200.00	0-8	0-8	0-9	0-10	0-11	1-1	1-3	1-6	1-10	2-3

Stringing Sag Table Using Final Sag — Ruling Span: 100

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-5	0-5	0-6
100.00	0-2	0-2	0-3	0-3	0-4	0-5	0-7	0-8	0-9	0-10
125.00	0-3	0-4	0-4	0-5	0-6	0-8	0-10	1-1	1-3	1-4
150.00	0-5	0-6	0-6	0-8	0-9	1-0	1-3	1-7	1-9	1-11
175.00	0-7	0-8	0-9	0-10	1-1	1-4	1-8	2-1	2-4	2-7
200.00	0-9	0-10	1-0	1-2	1-5	1-9	2-2	2-9	3-1	3-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.117

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Stringing Sag Table Using Initial Sag — Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10
125.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
150.00	0-9	0-10	0-11	1-0	1-2	1-4	1-5	1-7	1-8	1-10
175.00	1-0	1-1	1-3	1-5	1-7	1-9	1-11	2-2	2-4	2-6
200.00	1-3	1-5	1-8	1-10	2-1	2-4	2-7	2-9	3-0	3-3
225.00	1-7	1-10	2-1	2-4	2-8	2-11	3-3	3-6	3-10	4-1
250.00	2-0	2-3	2-7	2-11	3-3	3-7	4-0	4-4	4-8	5-0

Stringing Sag Table Using Final Sag — Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11
125.00	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-4	1-5
150.00	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-9	1-11	2-0
175.00	1-2	1-4	1-6	1-8	1-11	2-1	2-3	2-5	2-7	2-9
200.00	1-6	1-8	1-11	2-3	2-6	2-9	2-11	3-2	3-5	3-7
225.00	1-10	2-2	2-6	2-10	3-1	3-5	3-9	4-0	4-4	4-6
250.00	2-4	2-8	3-1	3-5	3-10	4-3	4-7	5-0	5-4	5-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.118

Stringing Sag Table Using Initial Sag — Ruling Span: 300

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-10	1-11	2-0
175.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-7	2-8
200.00	2-7	2-8	2-10	2-11	3-0	3-1	3-3	3-4	3-5	3-6
225.00	3-3	3-5	3-6	3-8	3-10	3-11	4-1	4-2	4-4	4-5
250.00	4-0	4-2	4-4	4-6	4-9	4-10	5-0	5-2	5-4	5-6
275.00	4-10	5-1	5-3	5-6	5-8	5-11	6-1	6-3	6-6	6-8
300.00	5-9	6-0	6-3	6-6	6-9	7-0	7-3	7-6	7-8	7-11
325.00	6-9	7-1	7-5	7-8	8-0	8-3	8-6	8-9	9-1	9-4
350.00	7-10	8-2	8-7	8-11	9-3	9-7	9-11	10-2	10-6	10-9
375.00	9-0	9-5	9-10	10-3	10-7	11-0	11-4	11-8	12-1	12-5

Stringing Sag Table Using Final Sag — Ruling Span: 300

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-0	2-1
175.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
200.00	2-9	2-10	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8
225.00	3-6	3-7	3-9	3-11	4-0	4-2	4-4	4-5	4-7	4-8
250.00	4-3	4-6	4-8	4-10	5-0	5-2	5-4	5-6	5-7	5-9
275.00	5-2	5-5	5-7	5-10	6-0	6-3	6-5	6-7	6-10	6-11
300.00	6-2	6-5	6-8	6-11	7-2	7-5	7-8	7-10	8-1	8-3
325.00	7-3	7-7	7-10	8-2	8-5	8-8	9-0	9-3	9-6	9-8
350.00	8-5	8-9	9-1	9-5	9-9	10-1	10-5	10-9	11-0	11-3
375.00	9-8	10-1	10-5	10-10	11-3	11-7	11-11	12-4	12-8	12-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.119

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Stringing Sag Table Using Initial Sag — Ruling Span: 400

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-1	3-2	3-3	3-4	3-4	3-5	3-6	3-6	3-7	3-8
225.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-6	4-7
250.00	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
275.00	5-11	6-0	6-2	6-3	6-4	6-6	6-7	6-8	6-9	6-10
300.00	7-0	7-2	7-4	7-5	7-7	7-8	7-10	7-11	8-1	8-2
325.00	8-3	8-5	8-7	8-9	8-10	9-0	9-2	9-4	9-6	9-7
350.00	9-7	9-9	9-11	10-1	10-4	10-6	10-8	10-10	11-0	11-2
375.00	11-0	11-2	11-5	11-7	11-10	12-0	12-3	12-5	12-7	12-9
400.00	12-6	12-9	13-0	13-3	13-5	13-8	13-11	14-1	14-4	14-7
425.00	14-1	14-5	14-8	14-11	15-2	15-5	15-8	15-11	16-2	16-5
450.00	15-10	16-2	16-5	16-9	17-0	17-4	17-7	17-11	18-2	18-5
475.00	17-8	18-0	18-4	18-8	19-0	19-4	19-7	19-11	20-3	20-6
500.00	19-7	19-11	20-4	20-8	21-0	21-5	21-9	22-1	22-5	22-9

Stringing Sag Table Using Final Sag — Ruling Span: 400

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-3	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-9
225.00	4-1	4-2	4-3	4-4	4-4	4-5	4-6	4-7	4-8	4-8
250.00	5-0	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10
275.00	6-1	6-2	6-4	6-5	6-6	6-8	6-9	6-10	6-11	7-0
300.00	7-3	7-5	7-6	7-8	7-9	7-11	8-0	8-2	8-3	8-4
325.00	8-6	8-8	8-10	9-0	9-2	9-3	9-5	9-7	9-9	9-10
350.00	9-10	10-1	10-3	10-5	10-7	10-9	10-11	11-1	11-3	11-4
375.00	11-4	11-6	11-9	11-11	12-2	12-4	12-7	12-9	12-11	13-1
400.00	12-11	13-2	13-4	13-7	13-10	14-1	14-3	14-6	14-9	14-10
425.00	14-7	14-10	15-1	15-4	15-7	15-11	16-2	16-5	16-7	16-9
450.00	16-4	16-8	16-11	17-3	17-6	17-10	18-1	18-4	18-8	18-10
475.00	18-2	18-6	18-10	19-2	19-6	19-10	20-2	20-6	20-9	21-0
500.00	20-2	20-6	20-11	21-3	21-8	22-0	22-4	22-8	23-0	23-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.120

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Stringing Sag Table Using Initial Sag — Ruling Span: 500

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-3	5-4	5-5	5-5	5-6	5-7	5-7	5-8	5-9	5-9
275.00	6-5	6-5	6-6	6-7	6-8	6-9	6-9	6-10	6-11	7-0
300.00	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-4
325.00	8-11	9-0	9-1	9-2	9-4	9-5	9-6	9-7	9-8	9-9
350.00	10-4	10-6	10-7	10-8	10-9	10-11	11-0	11-1	11-3	11-4
375.00	11-11	12-0	12-2	12-3	12-5	12-6	12-8	12-9	12-11	13-0
400.00	13-6	13-8	13-10	13-11	14-1	14-3	14-5	14-6	14-8	14-10
425.00	15-3	15-5	15-7	15-9	15-11	16-1	16-3	16-5	16-7	16-8
450.00	17-1	17-4	17-6	17-8	17-10	18-0	18-2	18-5	18-7	18-9
475.00	19-1	19-3	19-6	19-8	19-11	20-1	20-3	20-6	20-8	20-10
500.00	21-2	21-4	21-7	21-10	22-1	22-3	22-6	22-8	22-11	23-2
525.00	23-4	23-7	23-10	24-1	24-4	24-7	24-10	25-0	25-3	25-6
550.00	25-7	25-10	26-2	26-5	26-8	27-0	27-3	27-6	27-9	28-0
575.00	28-0	28-3	28-7	28-11	29-2	29-6	29-9	30-1	30-4	30-8
600.00	30-6	30-10	31-2	31-6	31-9	32-1	32-5	32-9	33-1	33-4
625.00	33-1	33-5	33-10	34-2	34-6	34-10	35-2	35-6	35-10	36-3

Stringing Sag Table Using Final Sag — Ruling Span: 500

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-4	5-5	5-6	5-6	5-7	5-8	5-8	5-9	5-10	5-10
275.00	6-6	6-7	6-8	6-8	6-9	6-10	6-11	7-0	7-0	7-1
300.00	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-4	8-4	8-5
325.00	9-1	9-2	9-3	9-4	9-6	9-7	9-8	9-9	9-10	9-11
350.00	10-6	10-8	10-9	10-10	11-0	11-1	11-2	11-4	11-5	11-6
375.00	12-1	12-3	12-4	12-6	12-7	12-9	12-10	13-0	13-1	13-2
400.00	13-9	13-11	14-1	14-2	14-4	14-6	14-7	14-9	14-11	15-0
425.00	15-6	15-8	15-10	16-0	16-2	16-4	16-6	16-8	16-10	16-11
450.00	17-5	17-7	17-9	18-0	18-2	18-4	18-6	18-8	18-10	19-0
475.00	19-5	19-7	19-10	20-0	20-3	20-5	20-8	20-10	21-0	21-2
500.00	21-6	21-9	22-0	22-2	22-5	22-8	22-10	23-1	23-4	23-5
525.00	23-9	24-0	24-3	24-6	24-9	25-0	25-3	25-6	25-8	25-10
550.00	26-1	26-4	26-7	26-11	27-2	27-5	27-8	27-11	28-2	28-5
575.00	28-6	28-9	29-1	29-5	29-8	30-0	30-3	30-7	30-10	31-0
600.00	31-0	31-4	31-8	32-0	32-4	32-8	33-0	33-3	33-7	33-10
625.00	33-8	34-0	34-5	34-9	35-1	35-5	35-10	36-2	36-6	36-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.121

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.504	0.91	2069	0.78	2400*
20	0	0	0	0.277	0.15	2311	0.13	2627
30	0	0	0	0.277	0.17	2076	0.14	2471
40	0	0	0	0.277	0.19	1843	0.15	2312
50	0	0	0	0.277	0.21	1611	0.16	2149
60	0	0	0	0.277	0.25	1383	0.17	1982
70	0	0	0	0.277	0.3	1160	0.19	1813
80	0	0	0	0.277	0.37	948	0.21	1640
90	0	0	0	0.277	0.46	755	0.24	1464
100	0	0	0	0.277	0.56	613	0.27	1288
110	0	0	0	0.277	0.61	568	0.31	1111
120	0	0	0	0.277	0.66	525	0.37	937
130	0	0	0	0.277	0.71	485	0.45	772
167	0	0	0	0.277	0.96	361	0.87	399
212	0	0	0	0.277	1.3	267	1.19	291

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.504	3.2	2350	3.14	2400*
20	0	0	0	0.277	0.83	1661	0.73	1896
30	0	0	0	0.277	0.95	1454	0.8	1736
40	0	0	0	0.277	1.1	1261	0.88	1576
50	0	0	0	0.277	1.28	1085	0.98	1418
60	0	0	0	0.277	1.49	932	1.1	1265
70	0	0	0	0.277	1.72	805	1.24	1118
80	0	0	0	0.277	1.97	702	1.41	983
90	0	0	0	0.277	2.23	622	1.61	863
100	0	0	0	0.277	2.48	559	1.82	760
110	0	0	0	0.277	2.69	514	2.05	674
120	0	0	0	0.277	2.81	492	2.29	604
130	0	0	0	0.277	2.94	472	2.53	548
167	0	0	0	0.277	3.38	410	3.29	421
212	0	0	0	0.277	3.9	355	3.81	364

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.122

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.504	7.06	2400	7.06	2400*
20	0	0	0	0.277	3.82	816	3.25	960
30	0	0	0	0.277	4.15	751	3.55	879
40	0	0	0	0.277	4.48	696	3.85	810
50	0	0	0	0.277	4.8	650	4.16	750
60	0	0	0	0.277	5.11	611	4.46	699
70	0	0	0	0.277	5.4	577	4.76	655
80	0	0	0	0.277	5.69	548	5.05	617
90	0	0	0	0.277	5.97	523	5.34	584
100	0	0	0	0.277	6.24	500	5.62	555
110	0	0	0	0.277	6.49	481	5.89	530
120	0	0	0	0.277	6.64	470	6.15	507
130	0	0	0	0.277	6.79	460	6.41	487
167	0	0	0	0.277	7.33	426	7.25	431
212	0	0	0	0.277	7.95	393	7.87	397

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.504	12.58	2400	12.58	2400*
20	0	0	0	0.277	9.44	588	8.79	631
30	0	0	0	0.277	9.76	569	9.1	610
40	0	0	0	0.277	10.06	552	9.41	590
50	0	0	0	0.277	10.36	536	9.71	572
60	0	0	0	0.277	10.65	522	10.01	555
70	0	0	0	0.277	10.93	508	10.3	540
80	0	0	0	0.277	11.21	496	10.58	525
90	0	0	0	0.277	11.48	484	10.86	512
100	0	0	0	0.277	11.75	473	11.13	499
110	0	0	0	0.277	11.97	465	11.39	488
120	0	0	0	0.277	12.13	458	11.66	477
130	0	0	0	0.277	12.29	453	11.91	467
167	0	0	0	0.277	12.86	432	12.78	435
212	0	0	0	0.277	13.54	411	13.46	414

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.123

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.504	19.7	2400	19.7	2400*
20	0	0	0	0.277	16.65	522	16.02	542
30	0	0	0	0.277	16.94	513	16.32	533
40	0	0	0	0.277	17.23	505	16.6	524
50	0	0	0	0.277	17.51	497	16.89	515
60	0	0	0	0.277	17.79	489	17.17	507
70	0	0	0	0.277	18.06	482	17.44	499
80	0	0	0	0.277	18.34	475	17.71	491
90	0	0	0	0.277	18.6	468	17.98	484
100	0	0	0	0.277	18.87	461	18.25	477
110	0	0	0	0.277	19.07	457	18.51	470
120	0	0	0	0.277	19.23	453	18.77	464
130	0	0	0	0.277	19.4	449	19.03	458
167	0	0	0	0.277	19.99	436	19.91	438
212	0	0	0	0.277	20.7	421	20.62	423

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.124

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4
125.00	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6
150.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
175.00	0-5	0-5	0-6	0-6	0-6	0-7	0-8	0-9	0-10	0-11
200.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-6	0-7	0-7
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-11	0-11
150.00	0-4	0-5	0-5	0-6	0-7	0-8	0-10	1-0	1-3	1-4
175.00	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-5	1-9	1-10
200.00	0-7	0-8	0-9	0-10	1-0	1-2	1-6	1-10	2-3	2-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10
150.00	0-5	0-5	0-6	0-7	0-7	0-8	0-10	0-11	1-0	1-2
175.00	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-7
200.00	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-1
225.00	0-11	1-0	1-1	1-3	1-5	1-7	1-9	2-0	2-4	2-7
250.00	1-2	1-3	1-4	1-6	1-9	1-11	2-2	2-6	2-10	3-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-7	0-8
125.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-1
150.00	0-6	0-6	0-7	0-9	0-10	1-0	1-1	1-3	1-5	1-6
175.00	0-8	0-9	0-10	1-0	1-2	1-4	1-6	1-8	1-11	2-1
200.00	0-10	0-11	1-1	1-3	1-6	1-9	2-0	2-3	2-6	2-8
225.00	1-1	1-2	1-5	1-7	1-11	2-2	2-6	2-10	3-2	3-5
250.00	1-4	1-6	1-9	2-0	2-4	2-8	3-1	3-6	3-11	4-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.126

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6
175.00	1-1	1-2	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-0
200.00	1-5	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-6	2-7
225.00	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4
250.00	2-3	2-6	2-8	2-11	3-1	3-4	3-6	3-8	3-11	4-1
275.00	2-9	3-0	3-3	3-6	3-9	4-0	4-3	4-6	4-9	4-11
300.00	3-3	3-7	3-10	4-2	4-6	4-9	5-1	5-4	5-7	5-11
325.00	3-10	4-2	4-6	4-11	5-3	5-7	5-11	6-3	6-7	6-11
350.00	4-5	4-10	5-3	5-8	6-1	6-6	6-11	7-3	7-8	8-0
375.00	5-1	5-6	6-0	6-6	7-0	7-5	7-11	8-4	8-9	9-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7
175.00	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-3
200.00	1-8	1-10	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-11
225.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
250.00	2-8	2-11	3-1	3-4	3-7	3-9	3-11	4-2	4-4	4-6
275.00	3-3	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-5
300.00	3-10	4-2	4-6	4-10	5-1	5-5	5-8	6-0	6-3	6-6
325.00	4-6	4-11	5-3	5-8	6-0	6-4	6-8	7-0	7-4	7-7
350.00	5-2	5-8	6-1	6-6	6-11	7-4	7-9	8-2	8-6	8-10
375.00	6-0	6-6	7-0	7-6	8-0	8-5	8-11	9-4	9-9	10-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.127

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-9	2-10
225.00	2-9	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7
250.00	3-5	3-7	3-8	3-10	3-11	4-0	4-2	4-3	4-4	4-5
275.00	4-2	4-4	4-5	4-7	4-9	4-10	5-0	5-2	5-3	5-5
300.00	4-11	5-1	5-4	5-6	5-8	5-9	5-11	6-1	6-3	6-5
325.00	5-10	6-0	6-3	6-5	6-7	6-10	7-0	7-2	7-4	7-6
350.00	6-9	7-0	7-2	7-5	7-8	7-11	8-1	8-4	8-6	8-9
375.00	7-9	8-0	8-3	8-6	8-10	9-1	9-4	9-6	9-9	10-0
400.00	8-9	9-1	9-5	9-9	10-0	10-4	10-7	10-10	11-2	11-5
425.00	9-11	10-3	10-8	11-0	11-4	11-7	11-11	12-3	12-7	12-10
450.00	11-2	11-6	11-11	12-4	12-8	13-0	13-5	13-9	14-1	14-5
475.00	12-5	12-10	13-3	13-8	14-1	14-6	14-11	15-4	15-8	16-1
500.00	13-9	14-3	14-9	15-2	15-8	16-1	16-6	17-0	17-5	17-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-10	2-11	3-0
225.00	3-0	3-1	3-2	3-3	3-4	3-5	3-7	3-8	3-9	3-9
250.00	3-8	3-10	3-11	4-1	4-2	4-3	4-5	4-6	4-7	4-8
275.00	4-6	4-7	4-9	4-11	5-0	5-2	5-4	5-5	5-7	5-8
300.00	5-4	5-6	5-8	5-10	6-0	6-2	6-4	6-5	6-7	6-9
325.00	6-3	6-5	6-8	6-10	7-0	7-3	7-5	7-7	7-9	7-11
350.00	7-3	7-6	7-8	7-11	8-2	8-4	8-7	8-9	9-0	9-2
375.00	8-4	8-7	8-10	9-1	9-4	9-7	9-10	10-1	10-4	10-6
400.00	9-5	9-9	10-1	10-4	10-8	10-11	11-3	11-6	11-9	12-0
425.00	10-8	11-0	11-4	11-8	12-0	12-4	12-8	13-0	13-3	13-6
450.00	11-11	12-4	12-9	13-1	13-6	13-10	14-2	14-6	14-11	15-2
475.00	13-4	13-9	14-2	14-7	15-0	15-5	15-10	16-2	16-7	16-11
500.00	14-9	15-3	15-9	16-2	16-8	17-1	17-6	17-11	18-4	18-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.128

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-6	4-7	4-7
275.00	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7
300.00	5-9	5-10	6-0	6-1	6-2	6-3	6-4	6-6	6-7	6-8
325.00	6-9	6-11	7-0	7-2	7-3	7-4	7-6	7-7	7-8	7-10
350.00	7-10	8-0	8-2	8-3	8-5	8-6	8-8	8-10	8-11	9-1
375.00	9-0	9-2	9-4	9-6	9-8	9-10	9-11	10-1	10-3	10-5
400.00	10-3	10-5	10-7	10-10	11-0	11-2	11-4	11-6	11-8	11-10
425.00	11-7	11-9	12-0	12-2	12-5	12-7	12-10	13-0	13-2	13-4
450.00	13-0	13-3	13-5	13-8	13-11	14-1	14-4	14-7	14-9	15-0
475.00	14-6	14-9	15-0	15-3	15-6	15-9	16-0	16-3	16-6	16-8
500.00	16-0	16-4	16-7	16-11	17-2	17-5	17-9	18-0	18-3	18-6
525.00	17-8	18-0	18-4	18-7	18-11	19-3	19-6	19-10	20-1	20-5
550.00	19-5	19-9	20-1	20-5	20-9	21-1	21-5	21-9	22-1	22-5
575.00	21-2	21-7	22-0	22-4	22-9	23-1	23-5	23-10	24-2	24-6
600.00	23-1	23-6	23-11	24-4	24-9	25-2	25-6	25-11	26-4	26-8
625.00	25-1	25-6	26-0	26-5	26-10	27-3	27-8	28-2	28-7	28-11

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-2	4-3	4-4	4-4	4-5	4-6	4-7	4-8	4-9	4-9
275.00	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9
300.00	6-0	6-1	6-2	6-4	6-5	6-6	6-7	6-8	6-9	6-10
325.00	7-0	7-2	7-3	7-5	7-6	7-7	7-9	7-10	8-0	8-1
350.00	8-2	8-4	8-5	8-7	8-9	8-10	9-0	9-1	9-3	9-4
375.00	9-4	9-6	9-8	9-10	10-0	10-2	10-4	10-5	10-7	10-9
400.00	10-8	10-10	11-0	11-2	11-5	11-7	11-9	11-11	12-1	12-2
425.00	12-0	12-3	12-5	12-8	12-10	13-1	13-3	13-5	13-7	13-9
450.00	13-6	13-9	13-11	14-2	14-5	14-8	14-10	15-1	15-3	15-5
475.00	15-0	15-3	15-7	15-10	16-1	16-4	16-7	16-9	17-0	17-2
500.00	16-8	16-11	17-3	17-6	17-9	18-1	18-4	18-7	18-10	19-1
525.00	18-4	18-8	19-0	19-4	19-7	19-11	20-3	20-6	20-10	21-0
550.00	20-2	20-6	20-10	21-2	21-6	21-10	22-2	22-6	22-10	23-1
575.00	22-0	22-5	22-10	23-2	23-6	23-11	24-3	24-7	25-0	25-3
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SHEET 129 OF 129

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.129

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 336.4 - 26/7 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION
- 1000 LB TENSION ---------- 810.3
- 1500 LB TENSION ---------- 810.11
- 2000 LB TENSION ---------- 810.19
- 2500 LB TENSION ---------- 810.27
- 3000 LB TENSION ---------- 810.35

G.O. 95 HEAVY LOADING CONDITION
- 1000 LB TENSION ---------- 810.43
- 1500 LB TENSION ---------- 810.51
- 2000 LB TENSION ---------- 810.59
- 2500 LB TENSION ---------- 810.67
- 3000 LB TENSION ---------- 810.75

SDG&E EXTRA HEAVY LOADING CONDITION
- 1000 LB TENSION ---------- 810.83
- 1500 LB TENSION ---------- 810.88
- 2000 LB TENSION ---------- 810.96
- 2500 LB TENSION ---------- 810.104
- 3000 LB TENSION ---------- 810.112

65 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 810.120
- 1500 LB TENSION ---------- 810.128
- 2000 LB TENSION ---------- 810.136
- 2500 LB TENSION ---------- 810.144
- 3000 LB TENSION ---------- 810.152

65 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 810.160
- 1500 LB TENSION ---------- 810.168
- 2000 LB TENSION ---------- 810.176
- 2500 LB TENSION ---------- 810.184
- 3000 LB TENSION ---------- 810.192

85 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 810.200
- 1500 LB TENSION ---------- 810.208
- 2000 LB TENSION ---------- 810.216
- 2500 LB TENSION ---------- 810.224
- 3000 LB TENSION ---------- 810.232

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SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 336.4 - 26/7 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

85 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 810.240
1500 LB TENSION ---------- 810.248
2000 LB TENSION ---------- 810.256
2500 LB TENSION ---------- 810.264
3000 LB TENSION ---------- 810.272

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 810.280
1500 LB TENSION ---------- 810.288
2000 LB TENSION ---------- 810.296
2500 LB TENSION ---------- 810.304
3000 LB TENSION ---------- 810.312

111 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 810.320
1500 LB TENSION ---------- 810.328
2000 LB TENSION ---------- 810.336
2500 LB TENSION ---------- 810.344
3000 LB TENSION ---------- 810.352

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REFERENCE:

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.651	0.84	970	0.81	1000*
25	0	0	0	0.44	0.7	784	0.66	830
30	0	0	0	0.44	0.78	706	0.73	753
40	0	0	0	0.44	0.94	588	0.87	630
50	0	0	0	0.44	1.09	505	1.02	540
60	0	0	0	0.44	1.23	446	1.16	474
70	0	0	0	0.44	1.37	402	1.29	425
80	0	0	0	0.44	1.5	368	1.42	387
90	0	0	0	0.44	1.57	351	1.54	357
100	0	0	0	0.44	1.64	335	1.64	335
110	0	0	0	0.44	1.71	322	1.71	322
120	0	0	0	0.44	1.78	310	1.78	310
130	0	0	0	0.44	1.84	299	1.84	299
167	0	0	0	0.44	2.07	266	2.07	266
212	0	0	0	0.44	2.33	236	2.33	236

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.651	3.35	974	3.26	1000*
25	0	0	0	0.44	3.16	698	3.03	727
30	0	0	0	0.44	3.26	675	3.14	702
40	0	0	0	0.44	3.48	634	3.34	659
50	0	0	0	0.44	3.68	599	3.54	622
60	0	0	0	0.44	3.88	569	3.73	590
70	0	0	0	0.44	4.06	542	3.92	562
80	0	0	0	0.44	4.25	519	4.1	537
90	0	0	0	0.44	4.42	499	4.27	516
100	0	0	0	0.44	4.54	486	4.44	496
110	0	0	0	0.44	4.64	475	4.61	478
120	0	0	0	0.44	4.75	465	4.75	465
130	0	0	0	0.44	4.85	455	4.85	455
167	0	0	0	0.44	5.21	424	5.21	424
212	0	0	0	0.44	5.62	393	5.62	393

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.3

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.651	7.46	984	7.34	1000*
25	0	0	0	0.44	7.25	684	7.1	699
30	0	0	0	0.44	7.37	673	7.21	688
40	0	0	0	0.44	7.6	653	7.43	667
50	0	0	0	0.44	7.82	634	7.65	649
60	0	0	0	0.44	8.04	617	7.87	631
70	0	0	0	0.44	8.26	601	8.08	615
80	0	0	0	0.44	8.46	587	8.28	600
90	0	0	0	0.44	8.67	573	8.48	585
100	0	0	0	0.44	8.86	561	8.68	572
110	0	0	0	0.44	8.98	553	8.87	560
120	0	0	0	0.44	9.1	546	9.06	548
130	0	0	0	0.44	9.23	538	9.23	538
167	0	0	0	0.44	9.67	514	9.67	514
212	0	0	0	0.44	10.19	488	10.19	488

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.651	13.21	990	13.08	1000*
25	0	0	0	0.44	13	680	12.83	689
30	0	0	0	0.44	13.12	674	12.94	683
40	0	0	0	0.44	13.36	662	13.17	671
50	0	0	0	0.44	13.59	651	13.4	660
60	0	0	0	0.44	13.82	640	13.62	649
70	0	0	0	0.44	14.04	630	13.85	639
80	0	0	0	0.44	14.27	620	14.06	629
90	0	0	0	0.44	14.49	611	14.28	619
100	0	0	0	0.44	14.7	602	14.49	610
110	0	0	0	0.44	14.86	596	14.7	602
120	0	0	0	0.44	15	590	14.91	594
130	0	0	0	0.44	15.13	585	15.11	586
167	0	0	0	0.44	15.63	567	15.63	567
212	0	0	0	0.44	16.21	546	16.21	546

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.4

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.651	20.63	993	20.49	1000*
25	0	0	0	0.44	20.41	678	20.23	684
30	0	0	0	0.44	20.53	674	20.35	680
40	0	0	0	0.44	20.77	667	20.58	673
50	0	0	0	0.44	21.01	659	20.81	665
60	0	0	0	0.44	21.25	652	21.04	658
70	0	0	0	0.44	21.48	645	21.27	651
80	0	0	0	0.44	21.71	638	21.49	644
90	0	0	0	0.44	21.94	632	21.72	638
100	0	0	0	0.44	22.16	625	21.94	632
110	0	0	0	0.44	22.35	620	22.16	625
120	0	0	0	0.44	22.49	616	22.38	619
130	0	0	0	0.44	22.64	612	22.59	614
167	0	0	0	0.44	23.17	599	23.17	599
212	0	0	0	0.44	23.79	583	23.79	583

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.5

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0
100.00	0-7	0-9	0-10	1-0	1-2	1-4	1-5	1-6	1-8	1-9
125.00	0-11	1-2	1-4	1-7	1-10	2-0	2-3	2-5	2-7	2-8
150.00	1-4	1-8	2-0	2-4	2-7	2-11	3-2	3-6	3-8	3-10
175.00	1-10	2-3	2-8	3-1	3-7	4-0	4-4	4-9	5-0	5-3
200.00	2-5	2-11	3-6	4-1	4-8	5-2	5-8	6-2	6-7	6-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0
100.00	0-8	0-9	0-11	1-1	1-3	1-4	1-6	1-7	1-8	1-9
125.00	1-0	1-3	1-6	1-8	1-11	2-2	2-4	2-5	2-7	2-8
150.00	1-5	1-9	2-1	2-5	2-9	3-1	3-4	3-6	3-8	3-10
175.00	1-11	2-5	2-10	3-4	3-9	4-2	4-7	4-10	5-0	5-3
200.00	2-6	3-1	3-9	4-4	4-11	5-6	6-0	6-3	6-7	6-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.6

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2
125.00	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10
150.00	1-8	1-9	1-11	2-0	2-1	2-2	2-4	2-5	2-6	2-7
175.00	2-3	2-5	2-7	2-9	2-10	3-0	3-2	3-3	3-5	3-6
200.00	2-11	3-2	3-4	3-7	3-9	3-11	4-1	4-3	4-5	4-7
225.00	3-8	4-0	4-3	4-6	4-9	5-0	5-2	5-5	5-8	5-10
250.00	4-7	4-11	5-3	5-6	5-10	6-2	6-5	6-8	6-11	7-2

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2
125.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10
150.00	1-9	1-10	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-7
175.00	2-4	2-6	2-8	2-10	3-0	3-1	3-3	3-5	3-6	3-7
200.00	3-1	3-3	3-6	3-8	3-11	4-1	4-3	4-5	4-6	4-8
225.00	3-10	4-2	4-5	4-8	4-11	5-2	5-4	5-7	5-9	5-10
250.00	4-9	5-1	5-5	5-9	6-1	6-4	6-8	6-11	7-1	7-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.7

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-1	2-2	2-3
175.00	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0
200.00	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
225.00	3-11	4-1	4-2	4-4	4-5	4-6	4-8	4-9	4-11	5-0
250.00	4-10	5-0	5-2	5-4	5-6	5-7	5-9	5-11	6-0	6-2
275.00	5-10	6-1	6-3	6-5	6-7	6-9	6-11	7-2	7-4	7-5
300.00	7-0	7-3	7-5	7-8	7-10	8-1	8-3	8-6	8-8	8-10
325.00	8-2	8-6	8-9	9-0	9-3	9-6	9-9	9-11	10-2	10-5
350.00	9-6	9-10	10-1	10-5	10-9	11-0	11-3	11-7	11-10	12-1
375.00	10-11	11-3	11-7	12-0	12-4	12-8	12-11	13-3	13-7	13-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-3
175.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1
200.00	3-2	3-3	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
225.00	4-0	4-2	4-3	4-5	4-6	4-8	4-9	4-10	5-0	5-1
250.00	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-0	6-2	6-3
275.00	6-0	6-2	6-5	6-7	6-9	6-11	7-1	7-3	7-5	7-7
300.00	7-2	7-4	7-7	7-10	8-1	8-3	8-6	8-8	8-10	9-0
325.00	8-5	8-8	8-11	9-2	9-5	9-8	9-11	10-2	10-5	10-7
350.00	9-9	10-0	10-4	10-8	10-11	11-3	11-6	11-10	12-1	12-3
375.00	11-2	11-6	11-11	12-3	12-7	12-11	13-3	13-7	13-10	14-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-2	3-3	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8
225.00	4-0	4-1	4-2	4-3	4-4	4-5	4-5	4-6	4-7	4-8
250.00	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9
275.00	6-0	6-1	6-3	6-4	6-5	6-6	6-8	6-9	6-10	6-11
300.00	7-2	7-3	7-5	7-6	7-8	7-9	7-11	8-0	8-2	8-3
325.00	8-5	8-6	8-8	8-10	9-0	9-2	9-3	9-5	9-7	9-8
350.00	9-9	9-11	10-1	10-3	10-5	10-7	10-9	10-11	11-1	11-3
375.00	11-2	11-4	11-7	11-9	12-0	12-2	12-4	12-7	12-9	12-11
400.00	12-9	12-11	13-2	13-5	13-7	13-10	14-1	14-3	14-6	14-8
425.00	14-4	14-7	14-10	15-2	15-5	15-8	15-11	16-1	16-4	16-7
450.00	16-1	16-5	16-8	17-0	17-3	17-6	17-10	18-1	18-4	18-7
475.00	17-11	18-3	18-7	18-11	19-3	19-6	19-10	20-2	20-5	20-9
500.00	19-10	20-3	20-7	20-11	21-4	21-8	22-0	22-4	22-8	23-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-3	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-9
225.00	4-1	4-2	4-3	4-4	4-4	4-5	4-6	4-7	4-8	4-8
250.00	5-0	5-1	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10
275.00	6-1	6-2	6-4	6-5	6-6	6-8	6-9	6-10	6-11	7-0
300.00	7-3	7-4	7-6	7-8	7-9	7-11	8-0	8-2	8-3	8-4
325.00	8-6	8-8	8-10	9-0	9-1	9-3	9-5	9-7	9-8	9-10
350.00	9-10	10-0	10-3	10-5	10-7	10-9	10-11	11-1	11-3	11-4
375.00	11-4	11-6	11-9	11-11	12-2	12-4	12-6	12-9	12-11	13-1
400.00	12-11	13-1	13-4	13-7	13-10	14-1	14-3	14-6	14-8	14-10
425.00	14-7	14-10	15-1	15-4	15-7	15-10	16-1	16-4	16-7	16-9
450.00	16-4	16-7	16-11	17-2	17-6	17-9	18-1	18-4	18-7	18-10
475.00	18-2	18-6	18-10	19-2	19-6	19-10	20-2	20-5	20-9	21-0
500.00	20-2	20-6	20-11	21-3	21-7	22-0	22-4	22-8	23-0	23-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	---	---	---	---	---	---	---	---	---	---
250.00	5-0	5-1	5-2	5-2	5-3	5-4	5-4	5-5	5-6	5-6
275.00	6-1	6-2	6-3	6-3	6-4	6-5	6-6	6-7	6-7	6-8
300.00	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0
325.00	8-6	8-7	8-8	8-9	8-11	9-0	9-1	9-2	9-3	9-4
350.00	9-10	10-0	10-1	10-2	10-4	10-5	10-6	10-8	10-9	10-10
375.00	11-4	11-5	11-7	11-8	11-10	11-11	12-1	12-2	12-4	12-5
400.00	12-10	13-0	13-2	13-4	13-5	13-7	13-9	13-11	14-0	14-2
425.00	14-6	14-8	14-10	15-0	15-2	15-4	15-6	15-8	15-10	16-0
450.00	16-3	16-6	16-8	16-10	17-0	17-3	17-5	17-7	17-9	17-11
475.00	18-2	18-4	18-7	18-9	19-0	19-2	19-5	19-7	19-10	20-0
500.00	20-1	20-4	20-7	20-10	21-0	21-3	21-6	21-9	21-11	22-2
525.00	22-2	22-5	22-8	22-11	23-2	23-5	23-8	23-11	24-2	24-5
550.00	24-4	24-8	24-11	25-2	25-6	25-9	26-0	26-4	26-7	26-10
575.00	26-7	26-11	27-3	27-7	27-10	28-2	28-5	28-9	29-0	29-4
600.00	29-0	29-4	29-8	30-0	30-4	30-8	31-0	31-4	31-8	31-11
625.00	31-6	31-10	32-2	32-7	32-11	33-3	33-8	34-0	34-4	34-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	---	---	---	---	---	---	---	---	---	---
250.00	5-1	5-1	5-2	5-3	5-4	5-4	5-5	5-6	5-6	5-7
275.00	6-2	6-2	6-3	6-4	6-5	6-6	6-7	6-7	6-8	6-9
300.00	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-0
325.00	8-7	8-8	8-9	8-10	9-0	9-1	9-2	9-3	9-4	9-5
350.00	9-11	10-1	10-2	10-3	10-5	10-6	10-7	10-9	10-10	10-11
375.00	11-5	11-6	11-8	11-10	11-11	12-1	12-2	12-4	12-5	12-7
400.00	13-0	13-2	13-3	13-5	13-7	13-9	13-11	14-0	14-2	14-3
425.00	14-8	14-10	15-0	15-2	15-4	15-6	15-8	15-10	16-0	16-2
450.00	16-5	16-7	16-10	17-0	17-2	17-5	17-7	17-9	17-11	18-1
475.00	18-4	18-6	18-9	18-11	19-2	19-5	19-7	19-10	20-0	20-2
500.00	20-3	20-6	20-9	21-0	21-3	21-6	21-9	21-11	22-2	22-4
525.00	22-4	22-8	22-11	23-2	23-5	23-8	23-11	24-2	24-5	24-8
550.00	24-7	24-10	25-2	25-5	25-9	26-0	26-3	26-7	26-10	27-1
575.00	26-10	27-2	27-6	27-10	28-1	28-5	28-9	29-0	29-4	29-7
600.00	29-3	29-7	29-11	30-3	30-8	31-0	31-4	31-7	31-11	32-3
625.00	31-9	32-1	32-6	32-10	33-3	33-7	34-0	34-4	34-8	35-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.10

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.651	0.57	1431	0.54	1500*
25	0	0	0	0.44	0.42	1303	0.39	1397
30	0	0	0	0.44	0.47	1164	0.43	1276
40	0	0	0	0.44	0.6	924	0.52	1050
50	0	0	0	0.44	0.74	741	0.64	857
60	0	0	0	0.44	0.9	612	0.78	707
70	0	0	0	0.44	1.05	522	0.92	595
80	0	0	0	0.44	1.2	458	1.07	515
90	0	0	0	0.44	1.29	427	1.21	455
100	0	0	0	0.44	1.36	404	1.34	411
110	0	0	0	0.44	1.44	382	1.44	382
120	0	0	0	0.44	1.51	364	1.51	364
130	0	0	0	0.44	1.59	347	1.59	347
167	0	0	0	0.44	1.84	300	1.84	300
212	0	0	0	0.44	2.11	261	2.11	261

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.651	2.3	1414	2.17	1500*
25	0	0	0	0.44	1.98	1110	1.8	1224
30	0	0	0	0.44	2.11	1045	1.91	1154
40	0	0	0	0.44	2.36	934	2.13	1032
50	0	0	0	0.44	2.6	846	2.36	932
60	0	0	0	0.44	2.84	775	2.59	850
70	0	0	0	0.44	3.07	718	2.81	782
80	0	0	0	0.44	3.29	670	3.03	726
90	0	0	0	0.44	3.5	630	3.24	679
100	0	0	0	0.44	3.66	601	3.45	639
110	0	0	0	0.44	3.78	583	3.64	605
120	0	0	0	0.44	3.89	566	3.83	575
130	0	0	0	0.44	4.01	550	4.01	550
167	0	0	0	0.44	4.41	500	4.41	500
212	0	0	0	0.44	4.87	453	4.87	453

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.11

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.651	5.11	1435	4.89	1500*
25	0	0	0	0.44	4.71	1051	4.4	1126
30	0	0	0	0.44	4.87	1018	4.55	1089
40	0	0	0	0.44	5.17	959	4.84	1024
50	0	0	0	0.44	5.46	907	5.12	967
60	0	0	0	0.44	5.75	863	5.4	918
70	0	0	0	0.44	6.02	824	5.67	874
80	0	0	0	0.44	6.29	789	5.94	835
90	0	0	0	0.44	6.55	758	6.19	800
100	0	0	0	0.44	6.8	730	6.45	769
110	0	0	0	0.44	7	709	6.69	741
120	0	0	0	0.44	7.14	695	6.93	716
130	0	0	0	0.44	7.28	681	7.16	693
167	0	0	0	0.44	7.8	636	7.8	636
212	0	0	0	0.44	8.4	591	8.4	591

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.651	8.98	1453	8.7	1500*
25	0	0	0	0.44	8.55	1031	8.16	1080
30	0	0	0	0.44	8.71	1012	8.32	1059
40	0	0	0	0.44	9.04	975	8.64	1020
50	0	0	0	0.44	9.36	942	8.96	985
60	0	0	0	0.44	9.67	912	9.26	952
70	0	0	0	0.44	9.97	884	9.56	923
80	0	0	0	0.44	10.27	859	9.85	895
90	0	0	0	0.44	10.56	836	10.14	870
100	0	0	0	0.44	10.84	814	10.42	847
110	0	0	0	0.44	11.12	794	10.7	825
120	0	0	0	0.44	11.32	780	10.97	805
130	0	0	0	0.44	11.49	769	11.24	786
167	0	0	0	0.44	12.09	731	12.08	731
212	0	0	0	0.44	12.79	691	12.79	691

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.651	13.93	1465	13.61	1500*
25	0	0	0	0.44	13.47	1023	13.05	1057
30	0	0	0	0.44	13.65	1011	13.22	1043
40	0	0	0	0.44	13.99	986	13.55	1018
50	0	0	0	0.44	14.32	963	13.88	994
60	0	0	0	0.44	14.65	942	14.2	972
70	0	0	0	0.44	14.97	922	14.51	951
80	0	0	0	0.44	15.29	903	14.83	931
90	0	0	0	0.44	15.6	885	15.13	912
100	0	0	0	0.44	15.91	868	15.43	894
110	0	0	0	0.44	16.21	852	15.73	877
120	0	0	0	0.44	16.49	838	16.03	862
130	0	0	0	0.44	16.67	829	16.32	846
167	0	0	0	0.44	17.33	797	17.33	797
212	0	0	0	0.44	18.12	763	18.11	763

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.13

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10
100.00	0-4	0-5	0-6	0-8	0-9	0-11	1-1	1-3	1-4	1-5
125.00	0-7	0-8	0-10	1-0	1-3	1-5	1-8	1-11	2-1	2-3
150.00	0-10	1-0	1-2	1-5	1-9	2-1	2-5	2-9	3-0	3-3
175.00	1-1	1-4	1-7	2-0	2-5	2-10	3-3	3-8	4-1	4-5
200.00	1-5	1-9	2-1	2-7	3-1	3-8	4-3	4-10	5-4	5-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9	0-10
100.00	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-3	1-4	1-5
125.00	0-7	0-9	0-11	1-2	1-5	1-8	1-11	2-0	2-2	2-3
150.00	0-10	1-1	1-4	1-8	2-0	2-4	2-8	2-11	3-1	3-3
175.00	1-2	1-5	1-10	2-3	2-9	3-3	3-8	3-11	4-2	4-5
200.00	1-6	1-11	2-5	3-0	3-7	4-3	4-10	5-2	5-5	5-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11
125.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
150.00	0-11	1-1	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-1
175.00	1-4	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-9
200.00	1-8	1-11	2-2	2-4	2-7	2-10	3-0	3-3	3-5	3-8
225.00	2-2	2-5	2-8	3-0	3-3	3-7	3-10	4-1	4-4	4-7
250.00	2-8	3-0	3-4	3-8	4-1	4-5	4-9	5-1	5-5	5-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-10	0-11	0-11
125.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
150.00	1-1	1-2	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-2
175.00	1-5	1-7	1-10	2-0	2-2	2-4	2-6	2-8	2-10	2-11
200.00	1-10	2-1	2-4	2-7	2-10	3-1	3-3	3-6	3-8	3-9
225.00	2-4	2-8	3-0	3-4	3-7	3-11	4-2	4-5	4-8	4-9
250.00	2-11	3-4	3-8	4-1	4-5	4-10	5-2	5-6	5-9	5-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.15

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-7	1-8
175.00	1-5	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3
200.00	1-11	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-10	3-0
225.00	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-6	3-7	3-9
250.00	2-11	3-2	3-4	3-7	3-9	3-11	4-1	4-4	4-6	4-8
275.00	3-7	3-10	4-1	4-4	4-6	4-9	5-0	5-2	5-5	5-7
300.00	4-3	4-7	4-10	5-1	5-5	5-8	5-11	6-2	6-5	6-8
325.00	5-0	5-4	5-8	6-0	6-4	6-8	7-0	7-3	7-7	7-10
350.00	5-9	6-2	6-7	7-0	7-4	7-9	8-1	8-5	8-9	9-1
375.00	6-8	7-1	7-7	8-0	8-5	8-10	9-3	9-8	10-1	10-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-8	1-9
175.00	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5
200.00	2-0	2-2	2-4	2-5	2-7	2-8	2-10	2-11	3-0	3-1
225.00	2-7	2-9	2-11	3-1	3-3	3-5	3-6	3-8	3-10	3-11
250.00	3-2	3-5	3-7	3-10	4-0	4-2	4-4	4-7	4-9	4-10
275.00	3-10	4-1	4-4	4-7	4-10	5-1	5-3	5-6	5-9	5-11
300.00	4-7	4-10	5-2	5-6	5-9	6-0	6-3	6-7	6-10	7-0
325.00	5-4	5-9	6-1	6-5	6-9	7-1	7-5	7-8	8-0	8-3
350.00	6-2	6-8	7-0	7-5	7-10	8-2	8-7	8-11	9-3	9-6
375.00	7-1	7-7	8-1	8-6	9-0	9-5	9-10	10-3	10-7	10-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.16

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-6	2-7	2-8
225.00	2-6	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-4	3-5
250.00	3-1	3-3	3-5	3-6	3-7	3-9	3-10	4-0	4-1	4-2
275.00	3-9	3-11	4-1	4-3	4-5	4-6	4-8	4-9	4-11	5-1
300.00	4-6	4-8	4-10	5-0	5-2	5-5	5-6	5-8	5-10	6-0
325.00	5-3	5-6	5-8	5-11	6-1	6-4	6-6	6-8	6-11	7-1
350.00	6-1	6-4	6-7	6-10	7-1	7-4	7-7	7-9	8-0	8-2
375.00	7-0	7-4	7-7	7-10	8-2	8-5	8-8	8-11	9-2	9-5
400.00	8-0	8-4	8-8	8-11	9-3	9-7	9-10	10-2	10-5	10-8
425.00	9-0	9-5	9-9	10-1	10-5	10-10	11-2	11-5	11-9	12-1
450.00	10-2	10-6	10-11	11-4	11-9	12-1	12-6	12-10	13-2	13-7
475.00	11-3	11-9	12-2	12-8	13-1	13-6	13-11	14-4	14-8	15-1
500.00	12-6	13-0	13-6	14-0	14-6	14-11	15-5	15-10	16-4	16-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-9
225.00	2-8	2-9	2-10	3-0	3-1	3-2	3-3	3-4	3-5	3-6
250.00	3-3	3-5	3-6	3-8	3-9	3-11	4-0	4-1	4-3	4-4
275.00	4-0	4-1	4-3	4-5	4-7	4-9	4-10	5-0	5-1	5-3
300.00	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3
325.00	5-6	5-9	6-0	6-2	6-5	6-7	6-9	7-0	7-2	7-4
350.00	6-5	6-8	6-11	7-2	7-5	7-8	7-10	8-1	8-4	8-6
375.00	7-4	7-8	7-11	8-3	8-6	8-9	9-0	9-3	9-6	9-9
400.00	8-5	8-9	9-0	9-4	9-8	10-0	10-3	10-7	10-10	11-1
425.00	9-6	9-10	10-2	10-7	10-11	11-3	11-7	11-11	12-3	12-7
450.00	10-7	11-0	11-5	11-10	12-3	12-8	13-0	13-4	13-9	14-1
475.00	11-10	12-4	12-9	13-2	13-8	14-1	14-6	14-11	15-4	15-8
500.00	13-1	13-7	14-2	14-8	15-1	15-7	16-1	16-6	16-11	17-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.17

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-3	3-4	3-5	3-6	3-7	3-8	3-8	3-9	3-10	3-11
275.00	3-11	4-0	4-1	4-2	4-3	4-5	4-6	4-7	4-8	4-9
300.00	4-8	4-9	4-10	5-0	5-1	5-3	5-4	5-5	5-7	5-8
325.00	5-5	5-7	5-9	5-10	6-0	6-2	6-3	6-5	6-6	6-8
350.00	6-4	6-6	6-8	6-10	6-11	7-1	7-3	7-5	7-7	7-8
375.00	7-3	7-5	7-7	7-10	8-0	8-2	8-4	8-6	8-8	8-10
400.00	8-3	8-5	8-8	8-11	9-1	9-3	9-6	9-8	9-10	10-1
425.00	9-4	9-7	9-9	10-0	10-3	10-6	10-8	10-11	11-2	11-4
450.00	10-5	10-8	11-0	11-3	11-6	11-9	12-0	12-3	12-6	12-9
475.00	11-7	11-11	12-3	12-6	12-10	13-1	13-5	13-8	13-11	14-2
500.00	12-11	13-3	13-7	13-11	14-2	14-6	14-10	15-2	15-5	15-9
525.00	14-2	14-7	14-11	15-4	15-8	16-0	16-4	16-8	17-0	17-4
550.00	15-7	16-0	16-5	16-10	17-2	17-7	17-11	18-4	18-8	19-0
575.00	17-0	17-6	17-11	18-4	18-9	19-2	19-7	20-0	20-5	20-10
600.00	18-7	19-0	19-6	20-0	20-5	20-11	21-4	21-10	22-3	22-8
625.00	20-2	20-8	21-2	21-8	22-2	22-8	23-2	23-8	24-2	24-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1
275.00	4-0	4-2	4-3	4-4	4-5	4-6	4-7	4-9	4-10	4-11
300.00	4-9	4-11	5-0	5-2	5-3	5-5	5-6	5-7	5-9	5-10
325.00	5-7	5-9	5-11	6-1	6-2	6-4	6-5	6-7	6-9	6-10
350.00	6-6	6-8	6-10	7-0	7-2	7-4	7-6	7-8	7-9	7-11
375.00	7-6	7-8	7-10	8-1	8-3	8-5	8-7	8-9	8-11	9-1
400.00	8-6	8-9	8-11	9-2	9-4	9-7	9-9	10-0	10-2	10-4
425.00	9-7	9-10	10-1	10-4	10-7	10-10	11-1	11-3	11-6	11-8
450.00	10-9	11-1	11-4	11-7	11-10	12-1	12-5	12-8	12-11	13-1
475.00	12-0	12-4	12-7	12-11	13-3	13-6	13-10	14-1	14-4	14-7
500.00	13-4	13-8	14-0	14-4	14-8	15-0	15-3	15-7	15-11	16-2
525.00	14-8	15-1	15-5	15-10	16-2	16-6	16-10	17-2	17-6	17-10
550.00	16-1	16-6	16-11	17-4	17-9	18-1	18-6	18-11	19-3	19-7
575.00	17-7	18-1	18-6	18-11	19-5	19-10	20-3	20-8	21-1	21-5
600.00	19-2	19-8	20-2	20-8	21-1	21-7	22-0	22-6	22-11	23-4
625.00	20-10	21-4	21-10	22-5	22-11	23-5	23-11	24-5	24-10	25-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.18

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.651	0.44	1868	0.41	2000*
25	0	0	0	0.44	0.31	1784	0.28	1939
30	0	0	0	0.44	0.34	1623	0.3	1808
40	0	0	0	0.44	0.42	1319	0.36	1549
50	0	0	0	0.44	0.52	1051	0.42	1300
60	0	0	0	0.44	0.66	835	0.51	1070
70	0	0	0	0.44	0.81	678	0.63	873
80	0	0	0	0.44	0.97	568	0.77	718
90	0	0	0	0.44	1.06	518	0.91	603
100	0	0	0	0.44	1.14	484	1.06	520
110	0	0	0	0.44	1.21	454	1.2	459
120	0	0	0	0.44	1.29	426	1.29	426
130	0	0	0	0.44	1.37	403	1.37	403
167	0	0	0	0.44	1.63	337	1.63	337
212	0	0	0	0.44	1.93	285	1.93	285

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.651	1.78	1831	1.63	2000*
25	0	0	0	0.44	1.4	1568	1.23	1793
30	0	0	0	0.44	1.51	1458	1.3	1688
40	0	0	0	0.44	1.74	1266	1.48	1491
50	0	0	0	0.44	1.98	1110	1.67	1316
60	0	0	0	0.44	2.23	986	1.89	1167
70	0	0	0	0.44	2.48	888	2.11	1042
80	0	0	0	0.44	2.72	809	2.34	940
90	0	0	0	0.44	2.96	745	2.57	856
100	0	0	0	0.44	3.14	700	2.8	787
110	0	0	0	0.44	3.26	675	3.02	730
120	0	0	0	0.44	3.38	651	3.23	682
130	0	0	0	0.44	3.5	629	3.43	641
167	0	0	0	0.44	3.93	561	3.92	562
212	0	0	0	0.44	4.42	499	4.42	499

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.19

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.651	3.96	1850	3.66	2000*
25	0	0	0	0.44	3.41	1452	3.01	1647
30	0	0	0	0.44	3.57	1386	3.15	1574
40	0	0	0	0.44	3.9	1269	3.43	1443
50	0	0	0	0.44	4.23	1172	3.73	1329
60	0	0	0	0.44	4.55	1090	4.03	1230
70	0	0	0	0.44	4.86	1020	4.33	1145
80	0	0	0	0.44	5.16	961	4.62	1072
90	0	0	0	0.44	5.45	909	4.91	1009
100	0	0	0	0.44	5.73	864	5.2	954
110	0	0	0	0.44	5.98	829	5.48	905
120	0	0	0	0.44	6.14	808	5.75	863
130	0	0	0	0.44	6.29	789	6.01	825
167	0	0	0	0.44	6.84	725	6.83	726
212	0	0	0	0.44	7.48	663	7.47	664

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.651	6.94	1879	6.52	2000*
25	0	0	0	0.44	6.28	1402	5.7	1545
30	0	0	0	0.44	6.48	1360	5.88	1498
40	0	0	0	0.44	6.86	1284	6.24	1412
50	0	0	0	0.44	7.23	1218	6.59	1336
60	0	0	0	0.44	7.6	1160	6.95	1268
70	0	0	0	0.44	7.95	1108	7.29	1208
80	0	0	0	0.44	8.3	1062	7.64	1154
90	0	0	0	0.44	8.64	1021	7.97	1106
100	0	0	0	0.44	8.96	984	8.3	1062
110	0	0	0	0.44	9.29	950	8.62	1023
120	0	0	0	0.44	9.56	923	8.94	987
130	0	0	0	0.44	9.74	906	9.25	954
167	0	0	0	0.44	10.39	849	10.33	854
212	0	0	0	0.44	11.16	791	11.15	792

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.651	10.7	1904	10.19	2000*
25	0	0	0	0.44	9.99	1379	9.28	1484
30	0	0	0	0.44	10.2	1351	9.48	1452
40	0	0	0	0.44	10.61	1298	9.88	1394
50	0	0	0	0.44	11.02	1251	10.27	1341
60	0	0	0	0.44	11.41	1208	10.66	1292
70	0	0	0	0.44	11.8	1168	11.04	1248
80	0	0	0	0.44	12.18	1132	11.42	1207
90	0	0	0	0.44	12.55	1099	11.78	1169
100	0	0	0	0.44	12.91	1068	12.15	1135
110	0	0	0	0.44	13.26	1040	12.5	1103
120	0	0	0	0.44	13.61	1013	12.85	1073
130	0	0	0	0.44	13.88	994	13.19	1045
167	0	0	0	0.44	14.62	944	14.41	957
212	0	0	0	0.44	15.5	891	15.47	892

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.21

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8
100.00	0-3	0-4	0-4	0-5	0-6	0-8	0-9	0-11	1-1	1-2
125.00	0-5	0-6	0-7	0-8	0-10	1-0	1-2	1-5	1-8	1-10
150.00	0-7	0-8	0-10	0-11	1-2	1-5	1-9	2-1	2-5	2-8
175.00	0-10	0-11	1-1	1-4	1-7	1-11	2-4	2-10	3-3	3-8
200.00	1-1	1-3	1-5	1-8	2-1	2-6	3-1	3-8	4-3	4-10

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-4	0-4	0-5	0-7	0-7	0-8	0-8
100.00	0-3	0-4	0-5	0-6	0-8	0-10	1-0	1-1	1-2	1-3
125.00	0-5	0-6	0-8	0-10	1-0	1-3	1-6	1-8	1-9	1-11
150.00	0-8	0-9	0-11	1-2	1-6	1-10	2-2	2-5	2-7	2-9
175.00	0-10	1-0	1-3	1-7	2-0	2-6	3-0	3-3	3-6	3-9
200.00	1-2	1-4	1-8	2-1	2-8	3-3	3-11	4-3	4-7	4-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.22

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-8	0-9
125.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
150.00	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-5	1-7	1-8
175.00	0-11	1-0	1-2	1-3	1-5	1-7	1-10	2-0	2-2	2-4
200.00	1-2	1-4	1-6	1-8	1-11	2-1	2-4	2-7	2-10	3-0
225.00	1-6	1-8	1-10	2-1	2-5	2-8	3-0	3-3	3-6	3-10
250.00	1-10	2-0	2-4	2-7	2-11	3-4	3-8	4-0	4-4	4-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10
125.00	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-3
150.00	0-9	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-9	1-10
175.00	1-0	1-2	1-4	1-6	1-9	1-11	2-1	2-3	2-5	2-6
200.00	1-4	1-6	1-9	2-0	2-3	2-6	2-9	2-11	3-2	3-3
225.00	1-8	1-11	2-2	2-6	2-10	3-2	3-5	3-9	4-0	4-2
250.00	2-0	2-4	2-9	3-1	3-6	3-11	4-3	4-7	4-11	5-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.23

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-4
175.00	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8	1-9	1-10
200.00	1-3	1-5	1-6	1-8	1-9	1-11	2-1	2-2	2-4	2-5
225.00	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-1
250.00	2-0	2-2	2-5	2-7	2-10	3-0	3-3	3-5	3-7	3-10
275.00	2-5	2-8	2-11	3-2	3-5	3-8	3-11	4-2	4-4	4-7
300.00	2-10	3-2	3-5	3-9	4-0	4-4	4-7	4-11	5-2	5-6
325.00	3-4	3-8	4-0	4-5	4-9	5-1	5-5	5-9	6-1	6-5
350.00	3-11	4-3	4-8	5-1	5-6	5-11	6-4	6-8	7-1	7-5
375.00	4-6	4-11	5-4	5-10	6-4	6-9	7-3	7-8	8-1	8-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-1	1-2	1-3	1-3	1-4	1-5	1-6
175.00	1-1	1-3	1-4	1-5	1-7	1-8	1-9	1-10	1-11	2-0
200.00	1-5	1-7	1-9	1-11	2-0	2-2	2-4	2-5	2-7	2-8
225.00	1-10	2-0	2-2	2-5	2-7	2-9	2-11	3-1	3-3	3-4
250.00	2-3	2-6	2-9	2-11	3-2	3-4	3-7	3-9	4-0	4-2
275.00	2-9	3-0	3-3	3-7	3-10	4-1	4-4	4-7	4-10	5-0
300.00	3-3	3-7	3-11	4-3	4-7	4-10	5-2	5-5	5-9	6-0
325.00	3-10	4-2	4-7	5-0	5-4	5-8	6-1	6-5	6-9	7-0
350.00	4-5	4-10	5-4	5-9	6-2	6-7	7-0	7-5	7-10	8-2
375.00	5-1	5-7	6-1	6-7	7-1	7-7	8-1	8-6	9-0	9-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
225.00	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-8	2-9
250.00	2-2	2-4	2-5	2-7	2-9	2-10	3-0	3-1	3-3	3-4
275.00	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-1
300.00	3-1	3-4	3-6	3-9	3-11	4-1	4-4	4-6	4-8	4-10
325.00	3-8	3-11	4-1	4-4	4-7	4-10	5-0	5-3	5-6	5-8
350.00	4-3	4-6	4-9	5-1	5-4	5-7	5-10	6-1	6-4	6-7
375.00	4-10	5-2	5-6	5-10	6-1	6-5	6-9	7-0	7-4	7-7
400.00	5-6	5-11	6-3	6-7	6-11	7-4	7-8	8-0	8-4	8-7
425.00	6-3	6-8	7-0	7-5	7-10	8-3	8-7	9-0	9-4	9-9
450.00	7-0	7-5	7-11	8-4	8-10	9-3	9-8	10-1	10-6	10-11
475.00	7-9	8-3	8-10	9-4	9-10	10-3	10-9	11-3	11-8	12-2
500.00	8-8	9-2	9-9	10-4	10-10	11-5	11-11	12-6	13-0	13-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-6	1-7	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
225.00	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-9	2-10	2-11
250.00	2-5	2-6	2-8	2-10	3-0	3-1	3-3	3-4	3-6	3-8
275.00	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-5
300.00	3-5	3-8	3-10	4-1	4-3	4-6	4-8	4-10	5-0	5-3
325.00	4-0	4-3	4-6	4-9	5-0	5-3	5-6	5-8	5-11	6-2
350.00	4-8	5-0	5-3	5-6	5-10	6-1	6-4	6-7	6-10	7-1
375.00	5-4	5-8	6-0	6-4	6-8	7-0	7-4	7-7	7-11	8-2
400.00	6-1	6-6	6-10	7-3	7-7	7-11	8-4	8-8	9-0	9-3
425.00	6-10	7-4	7-9	8-2	8-7	9-0	9-4	9-9	10-1	10-6
450.00	7-8	8-2	8-8	9-2	9-7	10-1	10-6	10-11	11-4	11-9
475.00	8-7	9-2	9-8	10-2	10-9	11-3	11-8	12-2	12-8	13-1
500.00	9-6	10-1	10-9	11-4	11-10	12-5	13-0	13-6	14-0	14-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.25

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-3	2-4	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1
275.00	2-9	2-10	3-0	3-1	3-3	3-4	3-5	3-7	3-8	3-9
300.00	3-3	3-5	3-7	3-8	3-10	4-0	4-1	4-3	4-4	4-6
325.00	3-10	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-2	5-3
350.00	4-5	4-8	4-10	5-0	5-3	5-5	5-7	5-9	5-11	6-1
375.00	5-1	5-4	5-7	5-9	6-0	6-3	6-5	6-8	6-10	7-0
400.00	5-10	6-1	6-4	6-7	6-10	7-1	7-4	7-6	7-9	8-0
425.00	6-7	6-10	7-2	7-5	7-8	8-0	8-3	8-6	8-9	9-0
450.00	7-4	7-8	8-0	8-4	8-8	8-11	9-3	9-7	9-10	10-1
475.00	8-2	8-7	8-11	9-3	9-7	10-0	10-4	10-8	11-0	11-3
500.00	9-1	9-6	9-11	10-3	10-8	11-1	11-5	11-9	12-2	12-6
525.00	10-0	10-5	10-11	11-4	11-9	12-2	12-7	13-0	13-5	13-9
550.00	11-0	11-6	11-11	12-5	12-11	13-4	13-10	14-3	14-8	15-2
575.00	12-0	12-6	13-1	13-7	14-1	14-7	15-1	15-7	16-1	16-6
600.00	13-1	13-8	14-3	14-10	15-4	15-11	16-5	17-0	17-6	18-0
625.00	14-2	14-10	15-5	16-1	16-8	17-3	17-10	18-5	19-0	19-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-5	2-7	2-8	2-9	2-10	2-11	3-1	3-2	3-3	3-4
275.00	2-11	3-1	3-2	3-4	3-5	3-7	3-8	3-10	3-11	4-0
300.00	3-6	3-8	3-10	4-0	4-1	4-3	4-5	4-6	4-8	4-9
325.00	4-2	4-4	4-6	4-8	4-10	5-0	5-2	5-4	5-5	5-7
350.00	4-9	5-0	5-2	5-5	5-7	5-9	6-0	6-2	6-4	6-6
375.00	5-6	5-9	6-0	6-2	6-5	6-8	6-10	7-1	7-3	7-5
400.00	6-3	6-6	6-9	7-1	7-4	7-7	7-9	8-0	8-3	8-6
425.00	7-1	7-4	7-8	7-11	8-3	8-6	8-10	9-1	9-4	9-7
450.00	7-11	8-3	8-7	8-11	9-3	9-7	9-10	10-2	10-5	10-9
475.00	8-10	9-2	9-7	9-11	10-4	10-8	11-0	11-4	11-8	12-0
500.00	9-9	10-2	10-7	11-0	11-5	11-10	12-2	12-7	12-11	13-3
525.00	10-9	11-3	11-8	12-2	12-7	13-0	13-5	13-10	14-3	14-8
550.00	11-10	12-4	12-10	13-4	13-10	14-3	14-9	15-2	15-7	16-1
575.00	12-11	13-6	14-0	14-7	15-1	15-7	16-1	16-7	17-1	17-7
600.00	14-1	14-8	15-3	15-10	16-5	17-0	17-6	18-1	18-7	19-1
625.00	15-3	15-11	16-7	17-3	17-10	18-5	19-0	19-7	20-2	20-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.26

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.651	0.36	2256	0.33	2500*
25	0	0	0	0.44	0.25	2197	0.22	2461
30	0	0	0	0.44	0.27	2028	0.24	2330
40	0	0	0	0.44	0.32	1699	0.27	2067
50	0	0	0	0.44	0.4	1388	0.31	1803
60	0	0	0	0.44	0.5	1110	0.36	1543
70	0	0	0	0.44	0.62	881	0.43	1292
80	0	0	0	0.44	0.77	710	0.52	1062
90	0	0	0	0.44	0.87	636	0.64	866
100	0	0	0	0.44	0.93	589	0.77	712
110	0	0	0	0.44	1.01	547	0.92	598
120	0	0	0	0.44	1.08	509	1.07	516
130	0	0	0	0.44	1.16	476	1.15	478
167	0	0	0	0.44	1.43	384	1.43	385
212	0	0	0	0.44	1.75	315	1.75	315

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.651	1.46	2230	1.3	2500*
25	0	0	0	0.44	1.09	2021	0.93	2355
30	0	0	0	0.44	1.17	1883	0.98	2237
40	0	0	0	0.44	1.35	1628	1.1	2004
50	0	0	0	0.44	1.56	1408	1.24	1781
60	0	0	0	0.44	1.8	1225	1.4	1575
70	0	0	0	0.44	2.04	1077	1.58	1389
80	0	0	0	0.44	2.29	960	1.79	1228
90	0	0	0	0.44	2.54	867	2.02	1092
100	0	0	0	0.44	2.74	805	2.25	980
110	0	0	0	0.44	2.86	771	2.48	889
120	0	0	0	0.44	2.97	740	2.71	814
130	0	0	0	0.44	3.09	712	2.93	752
167	0	0	0	0.44	3.53	623	3.52	626
212	0	0	0	0.44	4.05	545	4.04	546

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.27

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Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.651	3.26	2246	2.93	2500*
25	0	0	0	0.44	2.63	1881	2.23	2218
30	0	0	0	0.44	2.78	1781	2.34	2119
40	0	0	0	0.44	3.09	1603	2.56	1931
50	0	0	0	0.44	3.41	1452	2.82	1759
60	0	0	0	0.44	3.74	1325	3.09	1604
70	0	0	0	0.44	4.06	1219	3.37	1468
80	0	0	0	0.44	4.39	1129	3.67	1350
90	0	0	0	0.44	4.7	1054	3.97	1248
100	0	0	0	0.44	5.01	989	4.27	1160
110	0	0	0	0.44	5.28	939	4.57	1085
120	0	0	0	0.44	5.44	912	4.86	1019
130	0	0	0	0.44	5.59	886	5.15	963
167	0	0	0	0.44	6.17	804	6.14	808
212	0	0	0	0.44	6.84	725	6.81	728

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.651	5.72	2279	5.21	2500*
25	0	0	0	0.44	4.9	1798	4.22	2086
30	0	0	0	0.44	5.09	1729	4.38	2010
40	0	0	0	0.44	5.49	1604	4.71	1868
50	0	0	0	0.44	5.89	1496	5.06	1741
60	0	0	0	0.44	6.28	1403	5.41	1626
70	0	0	0	0.44	6.66	1322	5.77	1525
80	0	0	0	0.44	7.04	1251	6.14	1436
90	0	0	0	0.44	7.41	1189	6.5	1356
100	0	0	0	0.44	7.77	1134	6.85	1286
110	0	0	0	0.44	8.12	1085	7.2	1223
120	0	0	0	0.44	8.44	1045	7.55	1167
130	0	0	0	0.44	8.63	1022	7.89	1117
167	0	0	0	0.44	9.31	947	9.08	971
212	0	0	0	0.44	10.12	872	10.08	875

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.651	8.8	2314	8.15	2500*
25	0	0	0	0.44	7.85	1753	6.94	1983
30	0	0	0	0.44	8.08	1703	7.14	1927
40	0	0	0	0.44	8.53	1613	7.55	1822
50	0	0	0	0.44	8.98	1533	7.97	1727
60	0	0	0	0.44	9.42	1462	8.38	1642
70	0	0	0	0.44	9.85	1398	8.8	1565
80	0	0	0	0.44	10.27	1341	9.21	1495
90	0	0	0	0.44	10.68	1289	9.61	1433
100	0	0	0	0.44	11.09	1243	10.01	1375
110	0	0	0	0.44	11.48	1200	10.41	1323
120	0	0	0	0.44	11.87	1161	10.8	1276
130	0	0	0	0.44	12.2	1130	11.18	1233
167	0	0	0	0.44	12.98	1062	12.53	1100
212	0	0	0	0.44	13.91	991	13.86	995

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.29

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-9	0-11
125.00	0-4	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-2	1-5
150.00	0-6	0-6	0-7	0-8	0-10	0-11	1-2	1-5	1-9	2-1
175.00	0-8	0-9	0-10	0-11	1-1	1-4	1-7	1-11	2-4	2-10
200.00	0-10	0-11	1-1	1-3	1-5	1-8	2-1	2-7	3-1	3-8

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6	0-7
100.00	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-10	0-11	1-0
125.00	0-4	0-5	0-6	0-7	0-9	1-0	1-3	1-4	1-6	1-7
150.00	0-6	0-7	0-9	0-11	1-1	1-5	1-9	1-11	2-1	2-3
175.00	0-9	0-10	1-0	1-3	1-6	1-11	2-4	2-8	2-10	3-1
200.00	0-11	1-1	1-4	1-7	2-0	2-6	3-1	3-6	3-9	4-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-7
125.00	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-11	1-0
150.00	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-2	1-3	1-5
175.00	0-8	0-9	0-10	0-11	1-1	1-3	1-4	1-7	1-9	1-11
200.00	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-0	2-3	2-6
225.00	1-1	1-3	1-5	1-7	1-9	2-0	2-3	2-7	2-10	3-2
250.00	1-5	1-6	1-9	1-11	2-2	2-6	2-10	3-2	3-6	3-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9
125.00	0-5	0-5	0-6	0-7	0-8	0-10	0-11	1-0	1-1	1-1
150.00	0-7	0-8	0-9	0-11	1-0	1-2	1-3	1-5	1-6	1-7
175.00	0-9	0-11	1-0	1-2	1-5	1-7	1-9	1-11	2-1	2-2
200.00	1-0	1-2	1-4	1-7	1-10	2-1	2-4	2-6	2-9	2-10
225.00	1-3	1-6	1-9	2-0	2-3	2-7	2-11	3-3	3-6	3-7
250.00	1-7	1-10	2-1	2-5	2-10	3-2	3-7	4-0	4-3	4-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.31

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2
175.00	0-9	0-10	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-7
200.00	0-11	1-0	1-2	1-3	1-4	1-6	1-8	1-9	1-11	2-0
225.00	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7
250.00	1-6	1-7	1-9	1-11	2-2	2-4	2-7	2-9	3-0	3-2
275.00	1-10	2-0	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-10
300.00	2-2	2-4	2-7	2-10	3-1	3-4	3-8	4-0	4-3	4-7
325.00	2-6	2-9	3-0	3-4	3-7	4-0	4-4	4-8	5-0	5-4
350.00	2-11	3-2	3-6	3-10	4-2	4-7	5-0	5-5	5-10	6-3
375.00	3-4	3-8	4-0	4-5	4-10	5-3	5-9	6-2	6-8	7-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
175.00	0-10	0-11	1-1	1-2	1-3	1-5	1-6	1-7	1-8	1-10
200.00	1-1	1-3	1-4	1-6	1-8	1-10	1-11	2-1	2-3	2-4
225.00	1-5	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-10	3-0
250.00	1-9	1-11	2-2	2-4	2-7	2-10	3-1	3-3	3-6	3-8
275.00	2-1	2-4	2-7	2-10	3-2	3-5	3-8	3-11	4-2	4-5
300.00	2-6	2-9	3-1	3-5	3-9	4-1	4-5	4-8	5-0	5-3
325.00	2-11	3-3	3-8	4-0	4-5	4-9	5-2	5-6	5-11	6-2
350.00	3-5	3-9	4-2	4-8	5-1	5-6	6-0	6-5	6-10	7-2
375.00	3-11	4-4	4-10	5-4	5-10	6-4	6-10	7-4	7-10	8-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.32

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10
225.00	1-3	1-5	1-6	1-7	1-9	1-10	1-11	2-1	2-2	2-3
250.00	1-7	1-9	1-10	2-0	2-1	2-3	2-5	2-6	2-8	2-10
275.00	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5
300.00	2-3	2-6	2-8	2-10	3-1	3-3	3-5	3-8	3-10	4-1
325.00	2-8	2-11	3-1	3-4	3-7	3-10	4-1	4-3	4-6	4-9
350.00	3-1	3-4	3-7	3-10	4-2	4-5	4-8	5-0	5-3	5-6
375.00	3-7	3-10	4-2	4-5	4-9	5-1	5-5	5-9	6-0	6-4
400.00	4-1	4-5	4-9	5-1	5-5	5-9	6-2	6-6	6-10	7-2
425.00	4-7	4-11	5-4	5-9	6-1	6-6	6-11	7-4	7-9	8-2
450.00	5-2	5-7	6-0	6-5	6-10	7-4	7-9	8-3	8-8	9-1
475.00	5-9	6-2	6-8	7-2	7-8	8-2	8-8	9-2	9-8	10-2
500.00	6-4	6-10	7-4	7-11	8-6	9-0	9-7	10-2	10-9	11-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-2	1-3	1-4	1-6	1-7	1-8	1-9	1-10	1-11	2-0
225.00	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-5	2-7
250.00	1-10	2-0	2-2	2-4	2-5	2-7	2-9	2-11	3-0	3-2
275.00	2-3	2-5	2-7	2-9	3-0	3-2	3-4	3-6	3-8	3-10
300.00	2-8	2-10	3-1	3-4	3-6	3-9	4-0	4-2	4-4	4-7
325.00	3-1	3-4	3-7	3-11	4-2	4-5	4-8	4-11	5-2	5-4
350.00	3-7	3-11	4-2	4-6	4-10	5-1	5-5	5-8	5-11	6-3
375.00	4-2	4-6	4-10	5-2	5-6	5-10	6-2	6-6	6-10	7-2
400.00	4-8	5-1	5-6	5-11	6-3	6-8	7-1	7-5	7-9	8-1
425.00	5-4	5-9	6-2	6-8	7-1	7-6	7-11	8-4	8-9	9-2
450.00	5-11	6-5	6-11	7-5	7-11	8-5	8-11	9-5	9-10	10-3
475.00	6-8	7-2	7-9	8-4	8-10	9-5	9-11	10-5	11-0	11-5
500.00	7-4	8-0	8-7	9-2	9-10	10-5	11-0	11-7	12-2	12-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.33

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-8	1-9	1-11	2-0	2-1	2-2	2-4	2-5	2-6	2-7
275.00	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-11	3-0	3-2
300.00	2-5	2-7	2-9	2-10	3-0	3-2	3-4	3-6	3-7	3-9
325.00	2-10	3-0	3-2	3-4	3-6	3-9	3-11	4-1	4-3	4-5
350.00	3-4	3-6	3-8	3-11	4-1	4-4	4-6	4-9	4-11	5-1
375.00	3-9	4-0	4-3	4-6	4-9	4-11	5-2	5-5	5-8	5-10
400.00	4-4	4-7	4-10	5-1	5-4	5-8	5-11	6-2	6-5	6-8
425.00	4-10	5-2	5-5	5-9	6-1	6-4	6-8	6-11	7-3	7-6
450.00	5-5	5-9	6-1	6-5	6-9	7-1	7-5	7-9	8-1	8-5
475.00	6-1	6-5	6-10	7-2	7-7	7-11	8-4	8-8	9-0	9-5
500.00	6-9	7-2	7-7	8-0	8-5	8-10	9-2	9-7	10-0	10-5
525.00	7-5	7-10	8-4	8-9	9-3	9-8	10-2	10-7	11-0	11-6
550.00	8-2	8-8	9-2	9-8	10-2	10-8	11-2	11-8	12-1	12-7
575.00	8-11	9-5	10-0	10-6	11-1	11-8	12-2	12-9	13-3	13-9
600.00	9-8	10-3	10-11	11-6	12-1	12-8	13-3	13-10	14-5	15-0
625.00	10-6	11-2	11-10	12-5	13-1	13-9	14-5	15-0	15-8	16-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-11	2-0	2-2	2-3	2-4	2-6	2-7	2-8	2-9	2-10
275.00	2-4	2-5	2-7	2-9	2-10	3-0	3-1	3-3	3-4	3-6
300.00	2-9	2-11	3-1	3-3	3-5	3-7	3-8	3-10	4-0	4-2
325.00	3-3	3-5	3-7	3-10	4-0	4-2	4-4	4-6	4-8	4-10
350.00	3-9	4-0	4-2	4-5	4-7	4-10	5-0	5-3	5-5	5-7
375.00	4-3	4-7	4-10	5-1	5-4	5-6	5-9	6-0	6-3	6-5
400.00	4-11	5-2	5-6	5-9	6-0	6-4	6-7	6-10	7-1	7-4
425.00	5-6	5-10	6-2	6-6	6-10	7-1	7-5	7-9	8-0	8-4
450.00	6-2	6-7	6-11	7-3	7-8	8-0	8-4	8-8	9-0	9-4
475.00	6-11	7-4	7-8	8-1	8-6	8-11	9-3	9-8	10-0	10-4
500.00	7-7	8-1	8-6	9-0	9-5	9-10	10-3	10-8	11-1	11-6
525.00	8-5	8-11	9-5	9-11	10-5	10-10	11-4	11-9	12-3	12-8
550.00	9-3	9-9	10-4	10-10	11-5	11-11	12-5	12-11	13-5	13-11
575.00	10-1	10-8	11-3	11-11	12-6	13-0	13-7	14-2	14-8	15-2
600.00	11-0	11-8	12-3	12-11	13-7	14-2	14-10	15-5	16-0	16-6
625.00	11-11	12-8	13-4	14-0	14-9	15-5	16-1	16-8	17-4	17-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.34

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.651	0.31	2621	0.27	3000*
25	0	0	0	0.44	0.21	2576	0.18	2973
30	0	0	0	0.44	0.23	2404	0.19	2845
40	0	0	0	0.44	0.27	2064	0.21	2586
50	0	0	0	0.44	0.32	1733	0.24	2324
60	0	0	0	0.44	0.39	1420	0.27	2059
70	0	0	0	0.44	0.48	1138	0.31	1793
80	0	0	0	0.44	0.61	903	0.36	1531
90	0	0	0	0.44	0.7	786	0.43	1280
100	0	0	0	0.44	0.76	726	0.52	1050
110	0	0	0	0.44	0.82	670	0.64	855
120	0	0	0	0.44	0.89	620	0.78	703
130	0	0	0	0.44	0.96	574	0.93	592
167	0	0	0	0.44	1.23	446	1.22	451
212	0	0	0	0.44	1.56	352	1.55	355

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.651	1.25	2613	1.09	3000*
25	0	0	0	0.44	0.9	2448	0.76	2898
30	0	0	0	0.44	0.96	2295	0.79	2776
40	0	0	0	0.44	1.1	2002	0.87	2532
50	0	0	0	0.44	1.27	1734	0.96	2291
60	0	0	0	0.44	1.47	1498	1.07	2054
70	0	0	0	0.44	1.69	1299	1.2	1828
80	0	0	0	0.44	1.94	1137	1.36	1616
90	0	0	0	0.44	2.19	1007	1.54	1424
100	0	0	0	0.44	2.38	924	1.75	1257
110	0	0	0	0.44	2.5	881	1.97	1116
120	0	0	0	0.44	2.61	842	2.2	999
130	0	0	0	0.44	2.73	806	2.43	904
167	0	0	0	0.44	3.17	694	3.14	701
212	0	0	0	0.44	3.7	595	3.68	599

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.35

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.651	2.79	2630	2.44	3000*
25	0	0	0	0.44	2.14	2316	1.78	2787
30	0	0	0	0.44	2.26	2191	1.85	2676
40	0	0	0	0.44	2.53	1959	2.01	2458
50	0	0	0	0.44	2.82	1756	2.2	2248
60	0	0	0	0.44	3.13	1582	2.42	2050
70	0	0	0	0.44	3.45	1434	2.65	1866
80	0	0	0	0.44	3.78	1310	2.91	1699
90	0	0	0	0.44	4.11	1206	3.19	1551
100	0	0	0	0.44	4.43	1119	3.49	1421
110	0	0	0	0.44	4.71	1052	3.79	1308
120	0	0	0	0.44	4.87	1018	4.09	1212
130	0	0	0	0.44	5.03	986	4.39	1129
167	0	0	0	0.44	5.61	884	5.46	908
212	0	0	0	0.44	6.3	787	6.25	793

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.651	4.89	2664	4.34	3000*
25	0	0	0	0.44	3.97	2215	3.31	2661
30	0	0	0	0.44	4.16	2118	3.43	2565
40	0	0	0	0.44	4.53	1942	3.7	2379
50	0	0	0	0.44	4.92	1789	3.99	2206
60	0	0	0	0.44	5.32	1656	4.3	2045
70	0	0	0	0.44	5.71	1541	4.64	1899
80	0	0	0	0.44	6.11	1442	4.98	1767
90	0	0	0	0.44	6.5	1356	5.34	1649
100	0	0	0	0.44	6.88	1281	5.7	1545
110	0	0	0	0.44	7.25	1215	6.06	1453
120	0	0	0	0.44	7.59	1161	6.43	1371
130	0	0	0	0.44	7.78	1132	6.78	1298
167	0	0	0	0.44	8.48	1039	8.06	1093
212	0	0	0	0.44	9.32	946	9.25	953

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.36

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Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.651	7.53	2704	6.79	3000*
25	0	0	0	0.44	6.41	2148	5.42	2540
30	0	0	0	0.44	6.63	2074	5.59	2460
40	0	0	0	0.44	7.09	1940	5.96	2309
50	0	0	0	0.44	7.55	1822	6.34	2169
60	0	0	0	0.44	8.01	1718	6.74	2041
70	0	0	0	0.44	8.47	1626	7.15	1925
80	0	0	0	0.44	8.91	1545	7.56	1820
90	0	0	0	0.44	9.35	1472	7.98	1725
100	0	0	0	0.44	9.79	1407	8.4	1639
110	0	0	0	0.44	10.21	1349	8.81	1562
120	0	0	0	0.44	10.62	1297	9.23	1492
130	0	0	0	0.44	11	1253	9.63	1429
167	0	0	0	0.44	11.8	1168	11.09	1242
212	0	0	0	0.44	12.77	1080	12.68	1087

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.37

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-4	0-4
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8
125.00	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-10	1-0
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-2	1-5
175.00	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-4	1-7	2-0
200.00	0-9	0-9	0-10	0-11	1-1	1-3	1-5	1-9	2-1	2-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-5	0-6
100.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10
125.00	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-3
150.00	0-5	0-6	0-7	0-9	0-10	1-1	1-4	1-7	1-8	1-10
175.00	0-7	0-8	0-10	1-0	1-2	1-6	1-10	2-2	2-4	2-6
200.00	0-10	0-11	1-1	1-3	1-7	1-11	2-5	2-10	3-0	3-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.38

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Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-1
175.00	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-6
200.00	0-9	0-10	0-10	1-0	1-1	1-2	1-4	1-7	1-9	2-0
225.00	0-11	1-0	1-1	1-3	1-4	1-6	1-9	1-11	2-3	2-6
250.00	1-2	1-3	1-4	1-6	1-8	1-11	2-2	2-5	2-9	3-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-7	0-7
125.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
150.00	0-6	0-6	0-7	0-9	0-10	0-11	1-1	1-3	1-4	1-5
175.00	0-8	0-9	0-10	1-0	1-1	1-4	1-6	1-8	1-10	1-11
200.00	0-10	1-0	1-1	1-3	1-6	1-8	1-11	2-2	2-5	2-6
225.00	1-1	1-3	1-5	1-7	1-10	2-2	2-5	2-9	3-0	3-2
250.00	1-4	1-6	1-9	2-0	2-4	2-8	3-0	3-5	3-9	3-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.39

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11
175.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
200.00	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-8
225.00	1-0	1-0	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-2
250.00	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-3	2-5	2-8
275.00	1-5	1-7	1-8	1-10	2-0	2-3	2-5	2-8	2-11	3-2
300.00	1-8	1-10	2-0	2-2	2-5	2-8	2-11	3-2	3-6	3-9
325.00	2-0	2-2	2-4	2-7	2-10	3-1	3-5	3-9	4-1	4-5
350.00	2-4	2-6	2-9	3-0	3-3	3-7	4-0	4-4	4-9	5-2
375.00	2-8	2-11	3-2	3-5	3-9	4-2	4-7	5-0	5-5	5-11

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2
175.00	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-5	1-6	1-7
200.00	0-11	1-0	1-1	1-3	1-5	1-6	1-8	1-10	2-0	2-1
225.00	1-2	1-3	1-5	1-7	1-9	1-11	2-2	2-4	2-6	2-8
250.00	1-5	1-7	1-9	1-11	2-2	2-5	2-8	2-10	3-1	3-3
275.00	1-8	1-11	2-1	2-4	2-8	2-11	3-2	3-5	3-9	4-0
300.00	2-0	2-3	2-6	2-10	3-2	3-5	3-9	4-1	4-5	4-9
325.00	2-4	2-8	3-0	3-4	3-8	4-1	4-5	4-10	5-2	5-6
350.00	2-9	3-1	3-5	3-10	4-3	4-8	5-2	5-7	6-0	6-5
375.00	3-2	3-6	3-11	4-5	4-11	5-5	5-11	6-5	6-11	7-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.40

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
225.00	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8	1-10	1-11
250.00	1-3	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-3	2-4
275.00	1-6	1-7	1-9	1-11	2-0	2-2	2-4	2-6	2-8	2-10
300.00	1-10	1-11	2-1	2-3	2-5	2-7	2-10	3-0	3-2	3-5
325.00	2-1	2-3	2-5	2-8	2-10	3-1	3-3	3-6	3-9	4-0
350.00	2-5	2-8	2-10	3-1	3-4	3-7	3-10	4-1	4-4	4-8
375.00	2-10	3-0	3-3	3-6	3-9	4-1	4-5	4-8	5-0	5-4
400.00	3-2	3-5	3-8	4-0	4-4	4-8	5-0	5-4	5-8	6-1
425.00	3-7	3-10	4-2	4-6	4-10	5-3	5-8	6-0	6-5	6-10
450.00	4-0	4-4	4-8	5-1	5-5	5-10	6-4	6-9	7-3	7-8
475.00	4-6	4-10	5-3	5-8	6-1	6-6	7-0	7-6	8-0	8-7
500.00	5-0	5-4	5-9	6-3	6-9	7-3	7-9	8-4	8-11	9-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-11	1-0	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10
225.00	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-4
250.00	1-6	1-7	1-9	1-11	2-1	2-3	2-5	2-6	2-8	2-10
275.00	1-10	2-0	2-2	2-4	2-6	2-8	2-11	3-1	3-3	3-5
300.00	2-2	2-4	2-7	2-9	3-0	3-3	3-5	3-8	3-10	4-1
325.00	2-6	2-9	3-0	3-3	3-6	3-9	4-0	4-3	4-6	4-9
350.00	2-11	3-2	3-6	3-9	4-1	4-4	4-8	5-0	5-3	5-7
375.00	3-4	3-8	4-0	4-4	4-8	5-0	5-4	5-9	6-1	6-4
400.00	3-10	4-2	4-6	4-11	5-4	5-9	6-1	6-6	6-11	7-3
425.00	4-3	4-8	5-1	5-7	6-0	6-5	6-11	7-4	7-9	8-2
450.00	4-10	5-3	5-9	6-3	6-9	7-3	7-9	8-3	8-8	9-2
475.00	5-4	5-10	6-5	6-11	7-6	8-1	8-7	9-2	9-8	10-3
500.00	5-11	6-6	7-1	7-8	8-4	8-11	9-7	10-2	10-9	11-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.41

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-1	2-2
275.00	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-5	2-6	2-8
300.00	1-11	2-0	2-2	2-3	2-5	2-7	2-9	2-10	3-0	3-2
325.00	2-3	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-7	3-9
350.00	2-7	2-9	2-11	3-1	3-4	3-6	3-8	3-11	4-1	4-4
375.00	2-11	3-2	3-4	3-7	3-9	4-0	4-3	4-6	4-9	4-11
400.00	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-1	5-4	5-8
425.00	3-9	4-0	4-4	4-7	4-10	5-2	5-6	5-9	6-1	6-4
450.00	4-3	4-6	4-10	5-2	5-6	5-9	6-2	6-6	6-10	7-2
475.00	4-9	5-1	5-5	5-9	6-1	6-5	6-10	7-2	7-7	7-11
500.00	5-3	5-7	6-0	6-4	6-9	7-2	7-7	8-0	8-5	8-10
525.00	5-9	6-2	6-7	7-0	7-5	7-11	8-4	8-10	9-3	9-9
550.00	6-4	6-9	7-3	7-8	8-2	8-8	9-2	9-8	10-2	10-8
575.00	6-11	7-5	7-11	8-5	8-11	9-5	10-0	10-7	11-1	11-8
600.00	7-7	8-1	8-7	9-2	9-8	10-4	10-11	11-6	12-1	12-8
625.00	8-2	8-9	9-4	9-11	10-6	11-2	11-10	12-6	13-1	13-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-7	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-7
275.00	1-10	2-0	2-2	2-3	2-5	2-7	2-8	2-10	3-0	3-1
300.00	2-3	2-5	2-7	2-9	2-11	3-1	3-2	3-4	3-6	3-8
325.00	2-7	2-10	3-0	3-2	3-5	3-7	3-9	3-11	4-2	4-4
350.00	3-0	3-3	3-6	3-8	3-11	4-2	4-4	4-7	4-10	5-0
375.00	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-6	5-9
400.00	3-11	4-3	4-6	4-10	5-2	5-5	5-8	6-0	6-3	6-6
425.00	4-6	4-10	5-1	5-5	5-9	6-1	6-5	6-9	7-1	7-4
450.00	5-0	5-4	5-9	6-1	6-6	6-10	7-3	7-7	7-11	8-3
475.00	5-7	6-0	6-5	6-10	7-3	7-8	8-1	8-5	8-10	9-3
500.00	6-2	6-8	7-1	7-7	8-0	8-6	8-11	9-4	9-9	10-2
525.00	6-10	7-4	7-10	8-4	8-10	9-4	9-10	10-4	10-9	11-3
550.00	7-6	8-0	8-7	9-2	9-8	10-3	10-9	11-4	11-10	12-4
575.00	8-2	8-9	9-5	10-0	10-7	11-2	11-9	12-4	12-11	13-6
600.00	8-11	9-7	10-3	10-11	11-6	12-2	12-10	13-6	14-1	14-8
625.00	9-8	10-4	11-1	11-10	12-6	13-3	13-11	14-7	15-4	15-11

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SHEET 42 OF 359

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.42

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.475	1.85	1000	1.85	1000*
0.0	0.00	0.00	0.00	0.440	1.63	339	1.57	352
30.0	0.00	0.00	0.00	0.440	1.95	282	1.91	288
40.0	0.00	0.00	0.00	0.440	2.05	269	2.01	275
50.0	0.00	0.00	0.00	0.440	2.14	257	2.10	263
60.0	0.00	0.00	0.00	0.440	2.23	247	2.19	252
70.0	0.00	0.00	0.00	0.440	2.31	239	2.27	243
80.0	0.00	0.00	0.00	0.440	2.36	233	2.35	234
90.0	0.00	0.00	0.00	0.440	2.41	228	2.41	228
100.0	0.00	0.00	0.00	0.440	2.47	224	2.47	224
110.0	0.00	0.00	0.00	0.440	2.52	219	2.52	219
120.0	0.00	0.00	0.00	0.440	2.57	215	2.57	215
130.0	0.00	0.00	0.00	0.440	2.62	211	2.62	211
167.0	0.00	0.00	0.00	0.440	2.80	197	2.80	197
212.0	0.00	0.00	0.00	0.440	3.00	184	3.00	184

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.475	7.42	1000	7.42	1000*
0.0	0.00	0.00	0.00	0.440	7.19	308	7.13	310
30.0	0.00	0.00	0.00	0.440	7.53	294	7.48	296
40.0	0.00	0.00	0.00	0.440	7.63	290	7.59	292
50.0	0.00	0.00	0.00	0.440	7.74	286	7.69	288
60.0	0.00	0.00	0.00	0.440	7.84	282	7.79	284
70.0	0.00	0.00	0.00	0.440	7.94	279	7.89	281
80.0	0.00	0.00	0.00	0.440	8.01	276	7.99	277
90.0	0.00	0.00	0.00	0.440	8.08	274	8.08	274
100.0	0.00	0.00	0.00	0.440	8.15	272	8.14	272
110.0	0.00	0.00	0.00	0.440	8.21	270	8.21	270
120.0	0.00	0.00	0.00	0.440	8.27	268	8.27	268
130.0	0.00	0.00	0.00	0.440	8.34	266	8.34	266
167.0	0.00	0.00	0.00	0.440	8.57	259	8.57	259
212.0	0.00	0.00	0.00	0.440	8.85	251	8.85	251

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.475	16.80	1000	16.80	1000*
0.0	0.00	0.00	0.00	0.440	16.58	302	16.51	303
30.0	0.00	0.00	0.00	0.440	16.92	296	16.87	297
40.0	0.00	0.00	0.00	0.440	17.02	295	16.98	295
50.0	0.00	0.00	0.00	0.440	17.13	293	17.08	294
60.0	0.00	0.00	0.00	0.440	17.24	291	17.19	292
70.0	0.00	0.00	0.00	0.440	17.34	289	17.29	290
80.0	0.00	0.00	0.00	0.440	17.42	288	17.39	288
90.0	0.00	0.00	0.00	0.440	17.49	287	17.49	287
100.0	0.00	0.00	0.00	0.440	17.56	286	17.56	286
110.0	0.00	0.00	0.00	0.440	17.63	285	17.63	285
120.0	0.00	0.00	0.00	0.440	17.70	284	17.70	284
130.0	0.00	0.00	0.00	0.440	17.77	282	17.77	282
167.0	0.00	0.00	0.00	0.440	18.02	279	18.02	279
212.0	0.00	0.00	0.00	0.440	18.32	274	18.32	274

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.475	30.18	1000	30.18	1000*
0.0	0.00	0.00	0.00	0.440	29.95	300	29.89	301
30.0	0.00	0.00	0.00	0.440	30.29	297	30.25	298
40.0	0.00	0.00	0.00	0.440	30.40	296	30.35	297
50.0	0.00	0.00	0.00	0.440	30.50	295	30.46	296
60.0	0.00	0.00	0.00	0.440	30.61	294	30.56	295
70.0	0.00	0.00	0.00	0.440	30.72	293	30.66	294
80.0	0.00	0.00	0.00	0.440	30.80	292	30.77	293
90.0	0.00	0.00	0.00	0.440	30.88	292	30.87	292
100.0	0.00	0.00	0.00	0.440	30.95	291	30.95	291
110.0	0.00	0.00	0.00	0.440	31.02	291	31.02	291
120.0	0.00	0.00	0.00	0.440	31.09	290	31.09	290
130.0	0.00	0.00	0.00	0.440	31.16	289	31.16	289
167.0	0.00	0.00	0.00	0.440	31.42	287	31.42	287
212.0	0.00	0.00	0.00	0.440	31.73	284	31.73	284

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.44

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.475	47.79	1000	47.79	1000*
0.0	0.00	0.00	0.00	0.440	47.56	300	47.50	300
30.0	0.00	0.00	0.00	0.440	47.90	298	47.86	298
40.0	0.00	0.00	0.00	0.440	48.01	297	47.96	297
50.0	0.00	0.00	0.00	0.440	48.12	296	48.07	297
60.0	0.00	0.00	0.00	0.440	48.23	296	48.17	296
70.0	0.00	0.00	0.00	0.440	48.33	295	48.28	295
80.0	0.00	0.00	0.00	0.440	48.42	295	48.38	295
90.0	0.00	0.00	0.00	0.440	48.49	294	48.49	294
100.0	0.00	0.00	0.00	0.440	48.56	294	48.56	294
110.0	0.00	0.00	0.00	0.440	48.64	293	48.63	293
120.0	0.00	0.00	0.00	0.440	48.71	293	48.71	293
130.0	0.00	0.00	0.00	0.440	48.78	293	48.78	293
167.0	0.00	0.00	0.00	0.440	49.04	291	49.04	291
212.0	0.00	0.00	0.00	0.440	49.36	289	49.36	289

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.45

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-0	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5
100.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-6
125.00	2-10	3-0	3-2	3-3	3-5	3-7	3-8	3-9	3-10	3-11
150.00	4-1	4-4	4-6	4-9	4-11	5-1	5-4	5-5	5-7	5-8
175.00	5-7	5-10	6-2	6-5	6-8	7-0	7-3	7-5	7-7	7-9
200.00	7-3	7-8	8-0	8-5	8-9	9-1	9-5	9-8	9-11	10-1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-4	1-5	1-5
100.00	1-10	1-11	2-1	2-2	2-3	2-4	2-4	2-5	2-6	2-6
125.00	2-11	3-1	3-2	3-4	3-6	3-7	3-8	3-9	3-10	3-11
150.00	4-2	4-5	4-7	4-10	5-0	5-2	5-4	5-5	5-7	5-8
175.00	5-8	6-0	6-3	6-7	6-10	7-1	7-3	7-5	7-7	7-9
200.00	7-5	7-10	8-2	8-7	8-11	9-3	9-6	9-8	9-11	10-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.46

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0	2-0	2-1
125.00	2-11	2-11	3-0	3-0	3-0	3-1	3-1	3-2	3-2	3-2
150.00	4-2	4-2	4-3	4-4	4-5	4-5	4-6	4-6	4-7	4-7
175.00	5-8	5-9	5-10	5-11	6-0	6-0	6-1	6-2	6-3	6-3
200.00	7-5	7-6	7-7	7-8	7-9	7-11	8-0	8-1	8-2	8-3
225.00	9-4	9-6	9-7	9-9	9-10	10-0	10-1	10-3	10-4	10-5
250.00	11-7	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-9	12-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-11	1-11	1-11	1-11	2-0	2-0	2-0	2-0	2-1
125.00	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-2	3-2
150.00	4-2	4-3	4-3	4-4	4-5	4-6	4-6	4-6	4-7	4-7
175.00	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-2	6-3	6-3
200.00	7-5	7-6	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3
225.00	9-5	9-6	9-8	9-10	9-11	10-1	10-2	10-3	10-4	10-5
250.00	11-7	11-9	11-11	12-1	12-3	12-5	12-6	12-8	12-9	12-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.47

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-4	4-5	4-5
175.00	5-8	5-9	5-9	5-10	5-10	5-10	5-11	5-11	5-11	6-0
200.00	7-5	7-6	7-6	7-7	7-7	7-8	7-9	7-9	7-9	7-10
225.00	9-5	9-6	9-6	9-7	9-8	9-8	9-9	9-10	9-10	9-11
250.00	11-8	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-2	12-3
275.00	14-1	14-2	14-3	14-4	14-5	14-6	14-7	14-8	14-9	14-10
300.00	16-9	16-10	17-0	17-1	17-2	17-3	17-5	17-6	17-7	17-8
325.00	19-8	19-10	19-11	20-1	20-2	20-4	20-5	20-7	20-8	20-9
350.00	22-10	23-0	23-2	23-3	23-5	23-7	23-9	23-10	23-11	24-0
375.00	26-3	26-5	26-7	26-9	26-11	27-1	27-3	27-5	27-6	27-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-2	4-3	4-3	4-3	4-4	4-4	4-4	4-4	4-5	4-5
175.00	5-8	5-9	5-9	5-10	5-10	5-11	5-11	5-11	6-0	6-0
200.00	7-5	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-9	7-10
225.00	9-5	9-6	9-7	9-7	9-8	9-9	9-9	9-10	9-10	9-11
250.00	11-8	11-9	11-10	11-11	11-11	12-0	12-1	12-2	12-2	12-3
275.00	14-1	14-2	14-4	14-5	14-6	14-7	14-8	14-8	14-9	14-10
300.00	16-10	16-11	17-0	17-2	17-3	17-4	17-5	17-6	17-7	17-8
325.00	19-9	19-10	20-0	20-1	20-3	20-4	20-6	20-7	20-8	20-9
350.00	22-11	23-1	23-2	23-4	23-6	23-8	23-9	23-10	23-11	24-0
375.00	26-4	26-6	26-8	26-10	27-0	27-2	27-4	27-5	27-6	27-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.48

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-6	7-6	7-7	7-7	7-7	7-7	7-8	7-8	7-8	7-9
225.00	9-6	9-6	9-7	9-7	9-7	9-8	9-8	9-9	9-9	9-9
250.00	11-9	11-9	11-10	11-10	11-11	11-11	12-0	12-0	12-0	12-1
275.00	14-2	14-3	14-3	14-4	14-5	14-5	14-6	14-6	14-7	14-7
300.00	16-11	16-11	17-0	17-1	17-2	17-2	17-3	17-4	17-4	17-5
325.00	19-10	19-11	20-0	20-1	20-1	20-2	20-3	20-4	20-4	20-5
350.00	23-0	23-1	23-2	23-3	23-4	23-5	23-6	23-7	23-8	23-8
375.00	26-6	26-7	26-8	26-9	26-10	26-11	27-0	27-1	27-2	27-3
400.00	30-2	30-3	30-4	30-5	30-7	30-8	30-9	30-10	30-11	31-0
425.00	34-1	34-2	34-4	34-5	34-6	34-8	34-9	34-11	35-0	35-1
450.00	38-3	38-4	38-6	38-7	38-9	38-11	39-0	39-2	39-3	39-4
475.00	42-8	42-9	42-11	43-1	43-3	43-5	43-6	43-8	43-9	43-11
500.00	47-3	47-5	47-7	47-9	47-11	48-1	48-3	48-5	48-7	48-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-6	7-6	7-7	7-7	7-7	7-8	7-8	7-8	7-8	7-9
225.00	9-6	9-6	9-7	9-7	9-8	9-8	9-8	9-9	9-9	9-9
250.00	11-9	11-9	11-10	11-10	11-11	11-11	12-0	12-0	12-0	12-1
275.00	14-3	14-3	14-4	14-4	14-5	14-6	14-6	14-6	14-7	14-7
300.00	16-11	17-0	17-1	17-1	17-2	17-3	17-3	17-4	17-4	17-5
325.00	19-10	19-11	20-0	20-1	20-2	20-3	20-3	20-4	20-5	20-5
350.00	23-1	23-2	23-3	23-4	23-5	23-6	23-7	23-7	23-8	23-8
375.00	26-6	26-7	26-8	26-9	26-11	27-0	27-1	27-1	27-2	27-3
400.00	30-2	30-3	30-5	30-6	30-7	30-9	30-10	30-11	30-11	31-0
425.00	34-1	34-3	34-4	34-6	34-7	34-9	34-10	34-11	35-0	35-1
450.00	38-3	38-5	38-7	38-8	38-10	39-0	39-1	39-2	39-3	39-4
475.00	42-8	42-10	43-0	43-2	43-4	43-5	43-7	43-8	43-9	43-11
500.00	47-4	47-6	47-8	47-10	48-0	48-2	48-4	48-5	48-7	48-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.49

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-10	11-10	11-11	11-11	11-11	12-0	12-0	12-0	12-0	12-1
275.00	14-4	14-4	14-5	14-5	14-5	14-6	14-6	14-7	14-7	14-7
300.00	17-1	17-1	17-2	17-2	17-3	17-3	17-3	17-4	17-4	17-4
325.00	20-0	20-1	20-1	20-2	20-3	20-3	20-4	20-4	20-4	20-5
350.00	23-3	23-4	23-4	23-5	23-6	23-6	23-7	23-7	23-8	23-8
375.00	26-9	26-9	26-10	26-11	26-11	27-0	27-1	27-2	27-2	27-3
400.00	30-5	30-6	30-7	30-8	30-8	30-9	30-10	30-11	30-11	31-0
425.00	34-5	34-6	34-6	34-7	34-8	34-9	34-10	34-11	35-0	35-0
450.00	38-7	38-8	38-9	38-10	38-11	39-0	39-1	39-2	39-3	39-4
475.00	43-1	43-2	43-3	43-4	43-5	43-6	43-7	43-8	43-9	43-10
500.00	47-9	47-10	48-0	48-1	48-2	48-3	48-5	48-6	48-7	48-8
525.00	52-9	52-10	52-11	53-1	53-2	53-4	53-5	53-6	53-7	53-8
550.00	57-11	58-1	58-2	58-4	58-5	58-7	58-8	58-10	58-11	59-0
575.00	63-5	63-6	63-8	63-10	63-11	64-1	64-3	64-5	64-6	64-7
600.00	69-1	69-3	69-5	69-7	69-9	69-11	70-1	70-2	70-4	70-5
625.00	75-1	75-3	75-5	75-7	75-9	75-11	76-1	76-3	76-5	76-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-10	11-10	11-11	11-11	11-11	12-0	12-0	12-0	12-0	12-1
275.00	14-4	14-4	14-5	14-5	14-6	14-6	14-6	14-7	14-7	14-7
300.00	17-1	17-1	17-2	17-2	17-3	17-3	17-4	17-4	17-4	17-4
325.00	20-1	20-1	20-2	20-2	20-3	20-3	20-4	20-4	20-4	20-5
350.00	23-3	23-4	23-5	23-5	23-6	23-6	23-7	23-7	23-8	23-8
375.00	26-9	26-10	26-10	26-11	27-0	27-1	27-1	27-2	27-2	27-3
400.00	30-5	30-6	30-7	30-8	30-9	30-10	30-10	30-11	30-11	31-0
425.00	34-5	34-6	34-7	34-8	34-9	34-10	34-10	34-11	35-0	35-0
450.00	38-7	38-9	38-10	38-11	39-0	39-1	39-2	39-2	39-3	39-4
475.00	43-1	43-2	43-3	43-5	43-6	43-7	43-8	43-9	43-9	43-10
500.00	47-10	47-11	48-0	48-1	48-3	48-4	48-5	48-6	48-7	48-8
525.00	52-9	52-11	53-0	53-1	53-3	53-4	53-5	53-6	53-7	53-8
550.00	58-0	58-1	58-3	58-4	58-6	58-8	58-9	58-10	58-11	59-0
575.00	63-5	63-7	63-9	63-11	64-0	64-2	64-3	64-5	64-6	64-7
600.00	69-2	69-4	69-6	69-8	69-10	70-0	70-1	70-2	70-4	70-5
625.00	75-2	75-4	75-6	75-8	75-10	76-0	76-2	76-3	76-5	76-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.50

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.475	1.23	1500	1.23	1500*
0.0	0.00	0.00	0.00	0.440	0.78	703	0.72	761
30.0	0.00	0.00	0.00	0.440	1.24	445	1.15	478
40.0	0.00	0.00	0.00	0.440	1.37	401	1.29	428
50.0	0.00	0.00	0.00	0.440	1.50	367	1.41	390
60.0	0.00	0.00	0.00	0.440	1.62	340	1.53	359
70.0	0.00	0.00	0.00	0.440	1.73	319	1.65	335
80.0	0.00	0.00	0.00	0.440	1.79	307	1.75	314
90.0	0.00	0.00	0.00	0.440	1.86	296	1.86	297
100.0	0.00	0.00	0.00	0.440	1.92	286	1.92	286
110.0	0.00	0.00	0.00	0.440	1.99	277	1.99	277
120.0	0.00	0.00	0.00	0.440	2.05	269	2.05	269
130.0	0.00	0.00	0.00	0.440	2.11	262	2.11	262
167.0	0.00	0.00	0.00	0.440	2.32	238	2.32	238
212.0	0.00	0.00	0.00	0.440	2.55	216	2.55	216

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.475	4.93	1500	4.93	1500*
0.0	0.00	0.00	0.00	0.440	4.44	496	4.36	506
30.0	0.00	0.00	0.00	0.440	4.94	447	4.84	456
40.0	0.00	0.00	0.00	0.440	5.09	433	4.99	442
50.0	0.00	0.00	0.00	0.440	5.24	421	5.14	429
60.0	0.00	0.00	0.00	0.440	5.39	409	5.29	417
70.0	0.00	0.00	0.00	0.440	5.53	399	5.43	407
80.0	0.00	0.00	0.00	0.440	5.67	389	5.57	397
90.0	0.00	0.00	0.00	0.440	5.76	383	5.70	387
100.0	0.00	0.00	0.00	0.440	5.85	378	5.83	378
110.0	0.00	0.00	0.00	0.440	5.93	372	5.93	372
120.0	0.00	0.00	0.00	0.440	6.02	367	6.02	367
130.0	0.00	0.00	0.00	0.440	6.10	362	6.10	362
167.0	0.00	0.00	0.00	0.440	6.41	345	6.41	345
212.0	0.00	0.00	0.00	0.440	6.76	327	6.76	327

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.51

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.475	11.12	1500	11.12	1500*
0.0	0.00	0.00	0.00	0.440	10.64	468	10.55	471
30.0	0.00	0.00	0.00	0.440	11.13	447	11.03	451
40.0	0.00	0.00	0.00	0.440	11.29	441	11.19	445
50.0	0.00	0.00	0.00	0.440	11.45	435	11.34	439
60.0	0.00	0.00	0.00	0.440	11.61	429	11.50	433
70.0	0.00	0.00	0.00	0.440	11.76	424	11.65	428
80.0	0.00	0.00	0.00	0.440	11.91	418	11.79	422
90.0	0.00	0.00	0.00	0.440	12.03	414	11.94	417
100.0	0.00	0.00	0.00	0.440	12.12	411	12.09	412
110.0	0.00	0.00	0.00	0.440	12.22	408	12.22	408
120.0	0.00	0.00	0.00	0.440	12.32	405	12.32	405
130.0	0.00	0.00	0.00	0.440	12.41	402	12.41	402
167.0	0.00	0.00	0.00	0.440	12.76	391	12.76	391
212.0	0.00	0.00	0.00	0.440	13.17	379	13.17	379

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.475	19.86	1500	19.86	1500*
0.0	0.00	0.00	0.00	0.440	19.38	458	19.29	460
30.0	0.00	0.00	0.00	0.440	19.87	447	19.77	449
40.0	0.00	0.00	0.00	0.440	20.03	444	19.93	446
50.0	0.00	0.00	0.00	0.440	20.19	440	20.08	443
60.0	0.00	0.00	0.00	0.440	20.35	437	20.24	439
70.0	0.00	0.00	0.00	0.440	20.51	434	20.39	436
80.0	0.00	0.00	0.00	0.440	20.67	430	20.55	433
90.0	0.00	0.00	0.00	0.440	20.80	428	20.70	430
100.0	0.00	0.00	0.00	0.440	20.90	426	20.85	427
110.0	0.00	0.00	0.00	0.440	21.00	424	21.00	424
120.0	0.00	0.00	0.00	0.440	21.10	422	21.10	422
130.0	0.00	0.00	0.00	0.440	21.20	420	21.20	420
167.0	0.00	0.00	0.00	0.440	21.57	413	21.57	413
212.0	0.00	0.00	0.00	0.440	22.01	405	22.01	405

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.52

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.475	31.21	1500	31.21	1500*
0.0	0.00	0.00	0.00	0.440	30.73	454	30.64	456
30.0	0.00	0.00	0.00	0.440	31.22	447	31.12	449
40.0	0.00	0.00	0.00	0.440	31.38	445	31.28	446
50.0	0.00	0.00	0.00	0.440	31.54	443	31.44	444
60.0	0.00	0.00	0.00	0.440	31.71	441	31.59	442
70.0	0.00	0.00	0.00	0.440	31.87	439	31.75	440
80.0	0.00	0.00	0.00	0.440	32.02	436	31.90	438
90.0	0.00	0.00	0.00	0.440	32.16	435	32.06	436
100.0	0.00	0.00	0.00	0.440	32.26	433	32.21	434
110.0	0.00	0.00	0.00	0.440	32.37	432	32.36	432
120.0	0.00	0.00	0.00	0.440	32.47	431	32.47	431
130.0	0.00	0.00	0.00	0.440	32.58	429	32.58	429
167.0	0.00	0.00	0.00	0.440	32.96	424	32.96	424
212.0	0.00	0.00	0.00	0.440	33.42	419	33.42	419

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.53

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-1	1-1
100.00	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-10	1-11	2-0
125.00	1-7	1-10	2-0	2-2	2-5	2-7	2-9	2-11	3-0	3-1
150.00	2-3	2-7	2-11	3-2	3-5	3-8	3-11	4-2	4-4	4-6
175.00	3-1	3-6	3-11	4-4	4-8	5-1	5-4	5-8	5-11	6-1
200.00	4-0	4-7	5-2	5-8	6-2	6-7	7-0	7-5	7-8	7-11

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-1	1-1
100.00	1-1	1-3	1-4	1-6	1-7	1-9	1-10	1-10	1-11	2-0
125.00	1-8	1-11	2-2	2-4	2-6	2-8	2-10	2-11	3-0	3-1
150.00	2-5	2-9	3-1	3-5	3-8	3-11	4-0	4-2	4-4	4-6
175.00	3-4	3-9	4-2	4-7	5-0	5-4	5-6	5-8	5-11	6-1
200.00	4-4	4-11	5-6	6-0	6-6	6-11	7-2	7-5	7-8	7-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.54

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-3	1-3	1-3	1-4	1-4	1-5	1-5	1-5	1-6
125.00	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4
150.00	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-2	3-3	3-4
175.00	3-7	3-8	3-10	3-11	4-1	4-2	4-3	4-4	4-6	4-6
200.00	4-8	4-10	5-0	5-2	5-3	5-5	5-7	5-8	5-10	5-11
225.00	5-11	6-2	6-4	6-6	6-8	6-10	7-1	7-3	7-5	7-6
250.00	7-4	7-7	7-10	8-0	8-3	8-6	8-8	8-11	9-1	9-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-5	1-6	1-6
125.00	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-3	2-4
150.00	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-3	3-4
175.00	3-8	3-9	3-11	4-0	4-2	4-3	4-4	4-5	4-6	4-6
200.00	4-9	4-11	5-1	5-3	5-5	5-6	5-8	5-9	5-10	5-11
225.00	6-1	6-3	6-5	6-8	6-10	7-0	7-2	7-3	7-5	7-6
250.00	7-6	7-9	8-0	8-2	8-5	8-8	8-10	9-0	9-2	9-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.55

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-9	2-10	2-10	2-10	2-11	2-11	3-0	3-0	3-1
175.00	3-8	3-9	3-10	3-10	3-11	3-11	4-0	4-1	4-1	4-2
200.00	4-10	4-11	5-0	5-0	5-1	5-2	5-3	5-4	5-4	5-5
225.00	6-1	6-2	6-3	6-5	6-6	6-7	6-8	6-9	6-10	6-10
250.00	7-7	7-8	7-9	7-10	8-0	8-1	8-2	8-3	8-5	8-6
275.00	9-2	9-3	9-5	9-6	9-8	9-9	9-11	10-0	10-2	10-3
300.00	10-11	11-0	11-2	11-4	11-6	11-8	11-10	11-11	12-1	12-3
325.00	12-9	12-11	13-2	13-4	13-6	13-8	13-10	14-0	14-2	14-4
350.00	14-10	15-0	15-3	15-5	15-8	15-10	16-1	16-3	16-6	16-8
375.00	17-0	17-3	17-6	17-9	18-0	18-3	18-5	18-8	18-11	19-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-0	3-1
175.00	3-9	3-9	3-10	3-11	3-11	4-0	4-1	4-1	4-1	4-2
200.00	4-10	4-11	5-0	5-1	5-2	5-3	5-3	5-4	5-5	5-5
225.00	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-10
250.00	7-7	7-9	7-10	7-11	8-1	8-2	8-3	8-4	8-5	8-6
275.00	9-3	9-4	9-6	9-7	9-9	9-11	10-0	10-1	10-2	10-3
300.00	11-0	11-2	11-4	11-5	11-7	11-9	11-11	12-0	12-1	12-3
325.00	12-11	13-1	13-3	13-5	13-8	13-10	14-0	14-1	14-3	14-4
350.00	14-11	15-2	15-5	15-7	15-10	16-0	16-3	16-5	16-6	16-8
375.00	17-2	17-5	17-8	17-11	18-2	18-5	18-8	18-10	19-0	19-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.56

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Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-11	4-11	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-3
225.00	6-2	6-3	6-3	6-4	6-5	6-5	6-6	6-6	6-7	6-8
250.00	7-8	7-8	7-9	7-10	7-11	7-11	8-0	8-1	8-2	8-2
275.00	9-3	9-4	9-5	9-6	9-7	9-7	9-8	9-9	9-10	9-11
300.00	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-8	11-9	11-10
325.00	12-11	13-0	13-2	13-3	13-4	13-5	13-7	13-8	13-9	13-10
350.00	15-0	15-2	15-3	15-4	15-6	15-7	15-9	15-10	15-11	16-1
375.00	17-3	17-4	17-6	17-8	17-9	17-11	18-1	18-2	18-4	18-5
400.00	19-7	19-9	19-11	20-1	20-3	20-5	20-7	20-8	20-10	21-0
425.00	22-2	22-4	22-6	22-8	22-10	23-0	23-2	23-5	23-7	23-9
450.00	24-10	25-1	25-3	25-5	25-8	25-10	26-0	26-3	26-5	26-7
475.00	27-8	27-11	28-2	28-4	28-7	28-10	29-0	29-3	29-5	29-8
500.00	30-8	30-11	31-2	31-5	31-8	31-11	32-2	32-5	32-8	32-11

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-11	4-11	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-3
225.00	6-3	6-3	6-4	6-4	6-5	6-6	6-6	6-7	6-7	6-8
250.00	7-8	7-9	7-10	7-10	7-11	8-0	8-1	8-1	8-2	8-2
275.00	9-4	9-5	9-5	9-6	9-7	9-8	9-9	9-10	9-10	9-11
300.00	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10
325.00	13-0	13-1	13-3	13-4	13-5	13-6	13-8	13-9	13-9	13-10
350.00	15-1	15-2	15-4	15-5	15-7	15-8	15-10	15-11	16-0	16-1
375.00	17-4	17-5	17-7	17-9	17-11	18-0	18-2	18-3	18-4	18-5
400.00	19-9	19-10	20-0	20-2	20-4	20-6	20-8	20-10	20-11	21-0
425.00	22-3	22-5	22-7	22-10	23-0	23-2	23-4	23-6	23-7	23-9
450.00	25-0	25-2	25-5	25-7	25-9	26-0	26-2	26-4	26-6	26-7
475.00	27-10	28-1	28-3	28-6	28-9	29-0	29-2	29-4	29-6	29-8
500.00	30-10	31-1	31-4	31-7	31-10	32-1	32-4	32-7	32-9	32-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.57

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-9	7-9	7-9	7-10	7-10	7-11	7-11	8-0	8-0	8-1
275.00	9-4	9-5	9-5	9-6	9-6	9-7	9-7	9-8	9-8	9-9
300.00	11-1	11-2	11-3	11-3	11-4	11-5	11-5	11-6	11-7	11-7
325.00	13-1	13-1	13-2	13-3	13-4	13-4	13-5	13-6	13-7	13-8
350.00	15-2	15-3	15-3	15-4	15-5	15-6	15-7	15-8	15-9	15-10
375.00	17-5	17-6	17-7	17-8	17-9	17-10	17-11	18-0	18-1	18-2
400.00	19-9	19-11	20-0	20-1	20-2	20-3	20-5	20-6	20-7	20-8
425.00	22-4	22-5	22-7	22-8	22-10	22-11	23-0	23-2	23-3	23-4
450.00	25-1	25-2	25-4	25-5	25-7	25-8	25-10	25-11	26-1	26-2
475.00	27-11	28-1	28-3	28-4	28-6	28-8	28-9	28-11	29-1	29-2
500.00	31-0	31-1	31-3	31-5	31-7	31-9	31-11	32-1	32-3	32-4
525.00	34-2	34-4	34-6	34-8	34-10	35-0	35-2	35-4	35-6	35-8
550.00	37-6	37-8	37-11	38-1	38-3	38-5	38-8	38-10	39-0	39-2
575.00	41-0	41-3	41-5	41-8	41-10	42-1	42-3	42-6	42-8	42-11
600.00	44-8	44-11	45-2	45-4	45-7	45-10	46-1	46-3	46-6	46-9
625.00	48-6	48-9	49-0	49-3	49-6	49-9	50-0	50-3	50-6	50-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-9	7-9	7-10	7-10	7-11	7-11	8-0	8-0	8-0	8-1
275.00	9-4	9-5	9-6	9-6	9-7	9-7	9-8	9-8	9-9	9-9
300.00	11-2	11-2	11-3	11-4	11-5	11-5	11-6	11-6	11-7	11-7
325.00	13-1	13-2	13-3	13-3	13-4	13-5	13-6	13-7	13-7	13-8
350.00	15-2	15-3	15-4	15-5	15-6	15-7	15-8	15-9	15-9	15-10
375.00	17-5	17-6	17-7	17-8	17-10	17-11	18-0	18-1	18-1	18-2
400.00	19-10	19-11	20-1	20-2	20-3	20-4	20-5	20-7	20-7	20-8
425.00	22-5	22-6	22-8	22-9	22-10	23-0	23-1	23-2	23-3	23-4
450.00	25-2	25-3	25-5	25-6	25-8	25-9	25-11	26-0	26-1	26-2
475.00	28-0	28-2	28-4	28-5	28-7	28-9	28-11	29-0	29-1	29-2
500.00	31-1	31-3	31-5	31-7	31-8	31-10	32-0	32-2	32-3	32-4
525.00	34-3	34-5	34-7	34-10	35-0	35-2	35-4	35-6	35-7	35-8
550.00	37-7	37-10	38-0	38-3	38-5	38-7	38-10	39-0	39-1	39-3
575.00	41-2	41-4	41-7	41-9	42-0	42-3	42-5	42-7	42-9	42-11
600.00	44-10	45-1	45-4	45-6	45-9	46-0	46-3	46-5	46-7	46-9
625.00	48-8	48-11	49-2	49-5	49-8	49-11	50-2	50-5	50-7	50-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.58

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.475	0.92	2000	0.92	2000*
0	0	0	0	0.44	0.4	1387	0.37	1484
30	0	0	0	0.44	0.78	709	0.66	835
40	0	0	0	0.44	0.93	590	0.8	690
50	0	0	0	0.44	1.09	507	0.94	584
60	0	0	0	0.44	1.23	447	1.09	507
70	0	0	0	0.44	1.37	403	1.22	449
80	0	0	0	0.44	1.44	381	1.36	406
90	0	0	0	0.44	1.52	363	1.48	372
100	0	0	0	0.44	1.59	346	1.59	346
110	0	0	0	0.44	1.66	332	1.66	332
120	0	0	0	0.44	1.73	319	1.73	319
130	0	0	0	0.44	1.79	307	1.79	307
167	0	0	0	0.44	2.03	272	2.03	272
212	0	0	0	0.44	2.29	241	2.29	241

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.475	3.69	2000	3.69	2000*
0	0	0	0	0.44	2.84	774	2.69	820
30	0	0	0	0.44	3.5	629	3.33	662
40	0	0	0	0.44	3.71	594	3.53	625
50	0	0	0	0.44	3.9	565	3.72	592
60	0	0	0	0.44	4.09	539	3.91	564
70	0	0	0	0.44	4.27	516	4.09	539
80	0	0	0	0.44	4.44	496	4.26	517
90	0	0	0	0.44	4.57	482	4.43	498
100	0	0	0	0.44	4.68	472	4.59	480
110	0	0	0	0.44	4.78	462	4.75	464
120	0	0	0	0.44	4.88	452	4.88	452
130	0	0	0	0.44	4.98	443	4.98	443
167	0	0	0	0.44	5.33	414	5.33	414
212	0	0	0	0.44	5.74	385	5.74	385

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.59

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.475	8.32	2000	8.32	2000*
0	0	0	0	0.44	7.46	665	7.29	680
30	0	0	0	0.44	8.13	611	7.94	625
40	0	0	0	0.44	8.34	596	8.15	609
50	0	0	0	0.44	8.54	581	8.35	595
60	0	0	0	0.44	8.75	568	8.55	581
70	0	0	0	0.44	8.95	555	8.75	568
80	0	0	0	0.44	9.14	544	8.94	556
90	0	0	0	0.44	9.33	533	9.13	544
100	0	0	0	0.44	9.45	526	9.31	534
110	0	0	0	0.44	9.57	519	9.49	523
120	0	0	0	0.44	9.69	513	9.67	514
130	0	0	0	0.44	9.81	507	9.81	507
167	0	0	0	0.44	10.23	486	10.23	486
212	0	0	0	0.44	10.72	464	10.72	464

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.475	14.83	2000	14.83	2000*
0	0	0	0	0.44	13.97	633	13.8	641
30	0	0	0	0.44	14.63	605	14.44	612
40	0	0	0	0.44	14.85	596	14.65	604
50	0	0	0	0.44	15.06	588	14.86	595
60	0	0	0	0.44	15.27	580	15.07	587
70	0	0	0	0.44	15.47	572	15.27	580
80	0	0	0	0.44	15.68	565	15.47	572
90	0	0	0	0.44	15.88	558	15.67	565
100	0	0	0	0.44	16.03	552	15.86	558
110	0	0	0	0.44	16.16	548	16.06	552
120	0	0	0	0.44	16.29	544	16.25	545
130	0	0	0	0.44	16.42	540	16.42	540
167	0	0	0	0.44	16.88	525	16.88	525
212	0	0	0	0.44	17.43	509	17.43	509

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.60

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.475	23.25	2000	23.25	2000*
0	0	0	0	0.44	22.39	619	22.22	624
30	0	0	0	0.44	23.05	602	22.86	607
40	0	0	0	0.44	23.26	596	23.07	601
50	0	0	0	0.44	23.48	591	23.28	596
60	0	0	0	0.44	23.69	586	23.48	591
70	0	0	0	0.44	23.9	581	23.69	586
80	0	0	0	0.44	24.11	576	23.89	581
90	0	0	0	0.44	24.32	571	24.1	576
100	0	0	0	0.44	24.49	567	24.3	571
110	0	0	0	0.44	24.62	564	24.5	567
120	0	0	0	0.44	24.75	561	24.7	562
130	0	0	0	0.44	24.89	558	24.89	558
167	0	0	0	0.44	25.38	547	25.38	547
212	0	0	0	0.44	25.95	535	25.95	535

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.61

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11
100.00	0-6	0-8	0-10	0-11	1-1	1-3	1-4	1-6	1-7	1-8
125.00	0-10	1-0	1-3	1-6	1-8	1-11	2-1	2-4	2-6	2-7
150.00	1-3	1-6	1-10	2-1	2-5	2-9	3-1	3-4	3-7	3-9
175.00	1-8	2-0	2-5	2-11	3-4	3-9	4-2	4-6	4-10	5-1
200.00	2-2	2-8	3-2	3-9	4-4	4-11	5-5	5-11	6-4	6-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	0-11
100.00	0-8	0-9	0-11	1-1	1-3	1-4	1-5	1-6	1-7	1-8
125.00	1-0	1-3	1-5	1-8	1-11	2-2	2-3	2-4	2-6	2-7
150.00	1-5	1-9	2-1	2-5	2-9	3-1	3-3	3-5	3-7	3-9
175.00	1-11	2-5	2-10	3-4	3-9	4-2	4-5	4-8	4-10	5-1
200.00	2-6	3-1	3-9	4-4	4-11	5-6	5-9	6-1	6-4	6-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.62

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2
125.00	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10	1-10
150.00	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-7	2-8
175.00	2-5	2-7	2-8	2-10	3-0	3-2	3-3	3-5	3-6	3-8
200.00	3-1	3-4	3-6	3-9	3-11	4-1	4-3	4-5	4-7	4-9
225.00	3-11	4-3	4-6	4-8	4-11	5-2	5-5	5-7	5-10	6-0
250.00	4-11	5-2	5-6	5-10	6-1	6-5	6-8	6-11	7-2	7-5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-2
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-10
150.00	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-7	2-8	2-8
175.00	2-6	2-8	2-10	3-0	3-2	3-3	3-5	3-6	3-7	3-8
200.00	3-4	3-6	3-8	3-11	4-1	4-3	4-5	4-7	4-8	4-9
225.00	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-9	5-11	6-1
250.00	5-2	5-6	5-10	6-1	6-5	6-8	6-11	7-2	7-4	7-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.63

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-11	2-0	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-4
175.00	2-8	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3
200.00	3-5	3-6	3-7	3-9	3-10	3-11	4-0	4-1	4-2	4-3
225.00	4-4	4-6	4-7	4-8	4-10	4-11	5-0	5-2	5-3	5-4
250.00	5-4	5-6	5-8	5-10	5-11	6-1	6-2	6-4	6-6	6-7
275.00	6-6	6-8	6-10	7-0	7-2	7-4	7-6	7-8	7-10	8-0
300.00	7-9	7-11	8-2	8-4	8-7	8-9	8-11	9-2	9-4	9-6
325.00	9-1	9-4	9-7	9-10	10-0	10-3	10-6	10-9	10-11	11-2
350.00	10-6	10-10	11-1	11-4	11-8	11-11	12-2	12-5	12-8	12-11
375.00	12-1	12-5	12-9	13-1	13-4	13-8	14-0	14-3	14-7	14-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-4	2-5
175.00	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3
200.00	3-6	3-7	3-8	3-10	3-11	4-0	4-1	4-2	4-2	4-3
225.00	4-5	4-7	4-8	4-10	4-11	5-0	5-2	5-3	5-4	5-5
250.00	5-6	5-8	5-9	5-11	6-1	6-3	6-4	6-6	6-7	6-8
275.00	6-8	6-10	7-0	7-2	7-4	7-6	7-8	7-10	7-11	8-0
300.00	7-11	8-2	8-4	8-7	8-9	8-11	9-2	9-4	9-5	9-7
325.00	9-3	9-6	9-9	10-0	10-3	10-6	10-9	10-11	11-1	11-3
350.00	10-9	11-1	11-4	11-8	11-11	12-2	12-5	12-8	12-10	13-0
375.00	12-4	12-8	13-0	13-4	13-8	14-0	14-3	14-7	14-9	15-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.64

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-7	3-7	3-8	3-9	3-9	3-10	3-10	3-11	4-0	4-0
225.00	4-6	4-7	4-8	4-8	4-9	4-10	4-11	4-11	5-0	5-1
250.00	5-7	5-8	5-9	5-10	5-11	5-11	6-0	6-1	6-2	6-3
275.00	6-9	6-10	6-11	7-0	7-1	7-3	7-4	7-5	7-6	7-7
300.00	8-0	8-1	8-3	8-4	8-6	8-7	8-8	8-10	8-11	9-0
325.00	9-5	9-6	9-8	9-10	9-11	10-1	10-2	10-4	10-6	10-7
350.00	10-11	11-1	11-3	11-4	11-6	11-8	11-10	12-0	12-2	12-3
375.00	12-6	12-8	12-11	13-1	13-3	13-5	13-7	13-9	13-11	14-1
400.00	14-3	14-5	14-8	14-10	15-1	15-3	15-6	15-8	15-10	16-1
425.00	16-1	16-4	16-7	16-9	17-0	17-3	17-6	17-8	17-11	18-2
450.00	18-0	18-3	18-7	18-10	19-1	19-4	19-7	19-10	20-1	20-4
475.00	20-1	20-5	20-8	21-0	21-3	21-7	21-10	22-1	22-5	22-8
500.00	22-3	22-7	22-11	23-3	23-7	23-11	24-2	24-6	24-10	25-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-7	3-8	3-8	3-9	3-10	3-10	3-11	4-0	4-0	4-0
225.00	4-7	4-7	4-8	4-9	4-10	4-11	4-11	5-0	5-1	5-1
250.00	5-7	5-9	5-10	5-11	5-11	6-0	6-1	6-2	6-3	6-4
275.00	6-10	6-11	7-0	7-1	7-3	7-4	7-5	7-6	7-7	7-8
300.00	8-1	8-3	8-4	8-6	8-7	8-8	8-10	8-11	9-0	9-1
325.00	9-6	9-8	9-10	9-11	10-1	10-3	10-4	10-6	10-7	10-8
350.00	11-0	11-2	11-4	11-6	11-8	11-10	12-0	12-2	12-3	12-4
375.00	12-8	12-10	13-1	13-3	13-5	13-7	13-9	13-11	14-1	14-2
400.00	14-5	14-8	14-10	15-1	15-3	15-6	15-8	15-11	16-0	16-2
425.00	16-3	16-6	16-9	17-0	17-3	17-6	17-8	17-11	18-1	18-3
450.00	18-3	18-6	18-10	19-1	19-4	19-7	19-10	20-1	20-4	20-6
475.00	20-4	20-8	20-11	21-3	21-7	21-10	22-2	22-5	22-8	22-10
500.00	22-7	22-11	23-3	23-7	23-11	24-2	24-6	24-10	25-1	25-3

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STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.65

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-8	5-8	5-9	5-10	5-10	5-11	6-0	6-0	6-1	6-1
275.00	6-10	6-11	7-0	7-0	7-1	7-2	7-3	7-3	7-4	7-5
300.00	8-2	8-3	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10
325.00	9-7	9-8	9-9	9-10	9-11	10-0	10-1	10-2	10-3	10-4
350.00	11-1	11-2	11-3	11-5	11-6	11-7	11-8	11-9	11-11	12-0
375.00	12-9	12-10	13-0	13-1	13-2	13-4	13-5	13-6	13-8	13-9
400.00	14-6	14-7	14-9	14-11	15-0	15-2	15-3	15-5	15-6	15-8
425.00	16-4	16-6	16-8	16-10	16-11	17-1	17-3	17-5	17-6	17-8
450.00	18-4	18-6	18-8	18-10	19-0	19-2	19-4	19-6	19-8	19-10
475.00	20-5	20-7	20-10	21-0	21-2	21-4	21-7	21-9	21-11	22-1
500.00	22-8	22-10	23-1	23-3	23-6	23-8	23-11	24-1	24-4	24-6
525.00	25-0	25-3	25-5	25-8	25-11	26-2	26-4	26-7	26-10	27-0
550.00	27-5	27-8	27-11	28-2	28-5	28-8	28-11	29-2	29-5	29-8
575.00	30-0	30-3	30-6	30-10	31-1	31-4	31-8	31-11	32-2	32-5
600.00	32-8	32-11	33-3	33-7	33-10	34-2	34-5	34-9	35-0	35-4
625.00	35-5	35-9	36-1	36-5	36-9	37-1	37-5	37-9	38-0	38-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-8	5-9	5-10	5-10	5-11	6-0	6-0	6-1	6-1	6-2
275.00	6-11	6-11	7-0	7-1	7-2	7-3	7-3	7-4	7-5	7-5
300.00	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-10
325.00	9-8	9-9	9-10	9-11	10-0	10-1	10-2	10-3	10-4	10-5
350.00	11-2	11-3	11-5	11-6	11-7	11-8	11-10	11-11	12-0	12-1
375.00	12-10	12-11	13-1	13-2	13-4	13-5	13-7	13-8	13-9	13-10
400.00	14-7	14-9	14-10	15-0	15-2	15-3	15-5	15-7	15-8	15-9
425.00	16-6	16-8	16-10	16-11	17-1	17-3	17-5	17-7	17-8	17-9
450.00	18-6	18-8	18-10	19-0	19-2	19-4	19-6	19-8	19-10	19-11
475.00	20-7	20-10	21-0	21-2	21-4	21-7	21-9	21-11	22-1	22-3
500.00	22-10	23-1	23-3	23-6	23-8	23-11	24-1	24-4	24-6	24-7
525.00	25-2	25-5	25-8	25-11	26-2	26-4	26-7	26-10	27-0	27-2
550.00	27-8	27-11	28-2	28-5	28-8	28-11	29-2	29-5	29-8	29-10
575.00	30-3	30-6	30-10	31-1	31-4	31-8	31-11	32-2	32-5	32-7
600.00	32-11	33-3	33-6	33-10	34-2	34-6	34-9	35-1	35-4	35-6
625.00	35-9	36-1	36-5	36-9	37-1	37-5	37-9	38-1	38-4	38-6

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SHEET 66 OF 359

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.66

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.475	0.74	2500	0.74	2500*
0.0	0.00	0.00	0.00	0.440	0.26	2080	0.25	2164
30.0	0.00	0.00	0.00	0.440	0.48	1151	0.40	1392
40.0	0.00	0.00	0.00	0.440	0.60	913	0.48	1155
50.0	0.00	0.00	0.00	0.440	0.75	733	0.58	945
60.0	0.00	0.00	0.00	0.440	0.91	606	0.71	773
70.0	0.00	0.00	0.00	0.440	1.06	518	0.85	644
80.0	0.00	0.00	0.00	0.440	1.16	474	1.00	550
90.0	0.00	0.00	0.00	0.440	1.24	445	1.14	481
100.0	0.00	0.00	0.00	0.440	1.31	420	1.28	430
110.0	0.00	0.00	0.00	0.440	1.39	396	1.39	396
120.0	0.00	0.00	0.00	0.440	1.46	376	1.46	376
130.0	0.00	0.00	0.00	0.440	1.54	358	1.54	358
167.0	0.00	0.00	0.00	0.440	1.79	308	1.79	308
212.0	0.00	0.00	0.00	0.440	2.07	266	2.07	266

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.475	2.95	2500	2.95	2500*
0.0	0.00	0.00	0.00	0.440	1.76	1254	1.58	1390
30.0	0.00	0.00	0.00	0.440	2.50	881	2.23	985
40.0	0.00	0.00	0.00	0.440	2.74	804	2.46	893
50.0	0.00	0.00	0.00	0.440	2.97	741	2.69	818
60.0	0.00	0.00	0.00	0.440	3.20	689	2.91	756
70.0	0.00	0.00	0.00	0.440	3.41	646	3.13	704
80.0	0.00	0.00	0.00	0.440	3.62	609	3.33	661
90.0	0.00	0.00	0.00	0.440	3.79	582	3.53	623
100.0	0.00	0.00	0.00	0.440	3.90	565	3.73	591
110.0	0.00	0.00	0.00	0.440	4.01	549	3.92	563
120.0	0.00	0.00	0.00	0.440	4.12	534	4.10	538
130.0	0.00	0.00	0.00	0.440	4.24	520	4.24	520
167.0	0.00	0.00	0.00	0.440	4.63	476	4.63	476
212.0	0.00	0.00	0.00	0.440	5.08	434	5.08	434

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.67

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.475	6.65	2500	6.65	2500*
0.0	0.00	0.00	0.00	0.440	5.32	932	5.03	984
30.0	0.00	0.00	0.00	0.440	6.15	806	5.85	847
40.0	0.00	0.00	0.00	0.440	6.42	773	6.11	812
50.0	0.00	0.00	0.00	0.440	6.67	743	6.36	780
60.0	0.00	0.00	0.00	0.440	6.92	717	6.61	751
70.0	0.00	0.00	0.00	0.440	7.16	693	6.84	725
80.0	0.00	0.00	0.00	0.440	7.39	671	7.08	701
90.0	0.00	0.00	0.00	0.440	7.62	651	7.31	679
100.0	0.00	0.00	0.00	0.440	7.80	636	7.53	659
110.0	0.00	0.00	0.00	0.440	7.94	625	7.75	641
120.0	0.00	0.00	0.00	0.440	8.07	615	7.96	624
130.0	0.00	0.00	0.00	0.440	8.20	605	8.17	608
167.0	0.00	0.00	0.00	0.440	8.69	572	8.69	572
212.0	0.00	0.00	0.00	0.440	9.25	537	9.25	537

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.475	11.84	2500	11.84	2500*
0.0	0.00	0.00	0.00	0.440	10.50	841	10.20	865
30.0	0.00	0.00	0.00	0.440	11.33	779	11.02	801
40.0	0.00	0.00	0.00	0.440	11.60	761	11.28	782
50.0	0.00	0.00	0.00	0.440	11.86	744	11.54	765
60.0	0.00	0.00	0.00	0.440	12.12	729	11.80	749
70.0	0.00	0.00	0.00	0.440	12.38	714	12.04	733
80.0	0.00	0.00	0.00	0.440	12.62	700	12.29	719
90.0	0.00	0.00	0.00	0.440	12.87	687	12.53	705
100.0	0.00	0.00	0.00	0.440	13.11	674	12.77	692
110.0	0.00	0.00	0.00	0.440	13.26	667	13.00	680
120.0	0.00	0.00	0.00	0.440	13.41	659	13.24	668
130.0	0.00	0.00	0.00	0.440	13.55	652	13.46	657
167.0	0.00	0.00	0.00	0.440	14.09	628	14.09	628
212.0	0.00	0.00	0.00	0.440	14.73	601	14.73	601

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.475	18.54	2500	18.54	2500*
0.0	0.00	0.00	0.00	0.440	17.19	804	16.90	817
30.0	0.00	0.00	0.00	0.440	18.03	767	17.71	780
40.0	0.00	0.00	0.00	0.440	18.30	756	17.97	769
50.0	0.00	0.00	0.00	0.440	18.56	745	18.24	758
60.0	0.00	0.00	0.00	0.440	18.83	735	18.49	748
70.0	0.00	0.00	0.00	0.440	19.09	725	18.75	738
80.0	0.00	0.00	0.00	0.440	19.34	715	19.00	728
90.0	0.00	0.00	0.00	0.440	19.60	706	19.25	719
100.0	0.00	0.00	0.00	0.440	19.85	697	19.50	710
110.0	0.00	0.00	0.00	0.440	20.03	691	19.74	701
120.0	0.00	0.00	0.00	0.440	20.19	686	19.98	693
130.0	0.00	0.00	0.00	0.440	20.35	680	20.22	684
167.0	0.00	0.00	0.00	0.440	20.92	662	20.92	662
212.0	0.00	0.00	0.00	0.440	21.60	641	21.60	641

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.69

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9
100.00	0-4	0-5	0-6	0-7	0-9	0-10	1-0	1-2	1-3	1-5
125.00	0-6	0-7	0-9	0-11	1-1	1-4	1-7	1-9	2-0	2-2
150.00	0-9	0-11	1-1	1-4	1-7	1-11	2-3	2-7	2-11	3-2
175.00	1-0	1-3	1-6	1-9	2-2	2-7	3-1	3-6	3-11	4-3
200.00	1-4	1-7	1-11	2-4	2-10	3-5	4-0	4-7	5-1	5-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9	0-9
100.00	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-3	1-4	1-5
125.00	0-7	0-9	0-11	1-2	1-5	1-8	1-10	1-11	2-1	2-2
150.00	0-10	1-1	1-4	1-8	2-0	2-5	2-7	2-9	2-11	3-2
175.00	1-2	1-6	1-10	2-4	2-9	3-3	3-7	3-9	4-0	4-3
200.00	1-6	1-11	2-5	3-0	3-8	4-3	4-8	4-11	5-3	5-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.70

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0
125.00	0-9	0-10	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6
150.00	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-1	2-2
175.00	1-6	1-9	1-11	2-1	2-3	2-5	2-7	2-8	2-10	3-0
200.00	2-0	2-3	2-6	2-8	2-11	3-2	3-4	3-6	3-9	3-11
225.00	2-6	2-10	3-1	3-5	3-8	3-11	4-3	4-6	4-9	4-11
250.00	3-2	3-6	3-10	4-2	4-7	4-11	5-3	5-6	5-10	6-1

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-7	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0
125.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-6	1-7
150.00	1-3	1-5	1-6	1-8	1-10	1-11	2-0	2-2	2-2	2-3
175.00	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-1
200.00	2-3	2-6	2-9	3-0	3-2	3-5	3-7	3-9	3-11	4-0
225.00	2-10	3-2	3-6	3-9	4-1	4-4	4-7	4-10	4-11	5-1
250.00	3-6	3-11	4-3	4-8	5-0	5-4	5-8	5-11	6-1	6-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.71

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-6	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11
175.00	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
200.00	2-6	2-7	2-9	2-10	2-11	3-0	3-2	3-3	3-4	3-5
225.00	3-2	3-3	3-5	3-7	3-9	3-10	4-0	4-1	4-3	4-4
250.00	3-11	4-1	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-5
275.00	4-8	4-11	5-2	5-4	5-7	5-9	5-11	6-2	6-4	6-6
300.00	5-7	5-10	6-1	6-4	6-7	6-10	7-1	7-4	7-6	7-9
325.00	6-7	6-10	7-2	7-6	7-9	8-0	8-4	8-7	8-10	9-1
350.00	7-7	8-0	8-4	8-8	9-0	9-4	9-8	9-11	10-3	10-7
375.00	8-9	9-2	9-7	9-11	10-4	10-8	11-1	11-5	11-9	12-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11	2-0
175.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8
200.00	2-7	2-9	2-10	3-0	3-1	3-2	3-3	3-5	3-6	3-6
225.00	3-4	3-6	3-7	3-9	3-11	4-0	4-2	4-3	4-5	4-6
250.00	4-1	4-3	4-5	4-8	4-10	5-0	5-2	5-4	5-5	5-6
275.00	4-11	5-2	5-5	5-7	5-10	6-0	6-3	6-5	6-7	6-8
300.00	5-11	6-2	6-5	6-8	6-11	7-2	7-5	7-7	7-10	7-11
325.00	6-11	7-3	7-6	7-10	8-1	8-5	8-8	8-11	9-2	9-4
350.00	8-0	8-5	8-9	9-1	9-5	9-9	10-1	10-5	10-7	10-10
375.00	9-2	9-7	10-0	10-5	10-10	11-2	11-7	11-11	12-2	12-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.72

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-2	3-3
225.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-0	4-1
250.00	4-2	4-4	4-5	4-6	4-7	4-8	4-10	4-11	5-0	5-1
275.00	5-1	5-2	5-4	5-5	5-7	5-8	5-10	5-11	6-0	6-2
300.00	6-1	6-2	6-4	6-6	6-8	6-9	6-11	7-1	7-2	7-4
325.00	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-7
350.00	8-3	8-5	8-8	8-10	9-0	9-3	9-5	9-7	9-9	9-11
375.00	9-5	9-8	9-11	10-2	10-4	10-7	10-10	11-0	11-3	11-5
400.00	10-9	11-0	11-3	11-6	11-10	12-1	12-3	12-6	12-9	13-0
425.00	12-2	12-5	12-9	13-0	13-4	13-7	13-11	14-2	14-5	14-8
450.00	13-7	13-11	14-3	14-7	14-11	15-3	15-7	15-10	16-2	16-6
475.00	15-2	15-7	15-11	16-3	16-8	17-0	17-4	17-8	18-0	18-4
500.00	16-10	17-3	17-8	18-1	18-5	18-10	19-3	19-7	20-0	20-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3	3-4
225.00	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-2
250.00	4-4	4-5	4-6	4-8	4-9	4-10	4-11	5-0	5-1	5-2
275.00	5-3	5-4	5-6	5-7	5-9	5-10	6-0	6-1	6-2	6-3
300.00	6-3	6-4	6-6	6-8	6-10	6-11	7-1	7-3	7-4	7-5
325.00	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-9
350.00	8-6	8-8	8-11	9-1	9-3	9-6	9-8	9-10	10-0	10-2
375.00	9-9	10-0	10-2	10-5	10-8	10-10	11-1	11-4	11-6	11-8
400.00	11-1	11-4	11-7	11-10	12-1	12-5	12-7	12-10	13-1	13-3
425.00	12-6	12-10	13-1	13-5	13-8	14-0	14-3	14-6	14-10	15-0
450.00	14-0	14-4	14-8	15-0	15-4	15-8	16-0	16-4	16-7	16-9
475.00	15-7	16-0	16-4	16-9	17-1	17-6	17-10	18-2	18-6	18-8
500.00	17-3	17-9	18-2	18-7	18-11	19-4	19-9	20-1	20-6	20-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.73

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-4	4-5	4-6	4-7	4-7	4-8	4-9	4-10	4-10	4-11
275.00	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0
300.00	6-3	6-4	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1
325.00	7-4	7-6	7-7	7-8	7-10	7-11	8-0	8-1	8-3	8-4
350.00	8-6	8-8	8-10	8-11	9-1	9-2	9-4	9-5	9-7	9-8
375.00	9-10	9-11	10-1	10-3	10-5	10-6	10-8	10-10	10-11	11-1
400.00	11-2	11-4	11-6	11-8	11-10	12-0	12-2	12-4	12-6	12-7
425.00	12-7	12-9	13-0	13-2	13-4	13-6	13-9	13-11	14-1	14-3
450.00	14-1	14-4	14-7	14-9	15-0	15-2	15-5	15-7	15-9	16-0
475.00	15-9	16-0	16-3	16-5	16-8	16-11	17-2	17-4	17-7	17-10
500.00	17-5	17-9	18-0	18-3	18-6	18-9	19-0	19-3	19-6	19-9
525.00	19-3	19-6	19-10	20-1	20-5	20-8	20-11	21-3	21-6	21-9
550.00	21-1	21-5	21-9	22-1	22-5	22-8	23-0	23-4	23-7	23-11
575.00	23-1	23-5	23-9	24-2	24-6	24-10	25-2	25-6	25-10	26-1
600.00	25-2	25-6	25-11	26-3	26-8	27-0	27-5	27-9	28-1	28-5
625.00	27-3	27-8	28-1	28-6	28-11	29-4	29-9	30-1	30-6	30-11

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-5	4-6	4-7	4-8	4-8	4-9	4-10	4-11	4-11	5-0
275.00	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1
300.00	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-1	7-2	7-2
325.00	7-6	7-7	7-9	7-10	7-11	8-1	8-2	8-3	8-5	8-5
350.00	8-8	8-10	8-11	9-1	9-3	9-4	9-6	9-7	9-9	9-10
375.00	10-0	10-2	10-3	10-5	10-7	10-9	10-10	11-0	11-2	11-3
400.00	11-4	11-6	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-10
425.00	12-10	13-0	13-3	13-5	13-7	13-9	14-0	14-2	14-4	14-6
450.00	14-4	14-7	14-10	15-0	15-3	15-5	15-8	15-10	16-1	16-3
475.00	16-0	16-3	16-6	16-9	17-0	17-3	17-5	17-8	17-11	18-1
500.00	17-9	18-0	18-4	18-7	18-10	19-1	19-4	19-7	19-10	20-0
525.00	19-7	19-11	20-2	20-6	20-9	21-1	21-4	21-7	21-11	22-1
550.00	21-6	21-10	22-2	22-6	22-9	23-1	23-5	23-9	24-0	24-3
575.00	23-6	23-10	24-3	24-7	24-11	25-3	25-7	25-11	26-3	26-6
600.00	25-7	26-0	26-4	26-9	27-2	27-6	27-11	28-3	28-7	28-10
625.00	27-9	28-2	28-7	29-0	29-5	29-10	30-3	30-8	31-1	31-4

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SHEET 74 OF 359

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.74

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.475	0.61	3000	0.61	3000*
0.0	0.00	0.00	0.00	0.440	0.20	2702	0.20	2771
30.0	0.00	0.00	0.00	0.440	0.33	1689	0.28	1991
40.0	0.00	0.00	0.00	0.440	0.40	1380	0.32	1729
50.0	0.00	0.00	0.00	0.440	0.50	1103	0.37	1472
60.0	0.00	0.00	0.00	0.440	0.63	875	0.45	1227
70.0	0.00	0.00	0.00	0.440	0.78	706	0.55	1005
80.0	0.00	0.00	0.00	0.440	0.92	600	0.67	820
90.0	0.00	0.00	0.00	0.440	0.99	557	0.81	678
100.0	0.00	0.00	0.00	0.440	1.06	518	0.96	574
110.0	0.00	0.00	0.00	0.440	1.14	484	1.10	499
120.0	0.00	0.00	0.00	0.440	1.22	453	1.22	453
130.0	0.00	0.00	0.00	0.440	1.29	426	1.29	426
167.0	0.00	0.00	0.00	0.440	1.56	352	1.56	352
212.0	0.00	0.00	0.00	0.440	1.87	295	1.87	295

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.475	2.46	3000	2.46	3000*
0.0	0.00	0.00	0.00	0.440	1.13	1945	1.03	2138
30.0	0.00	0.00	0.00	0.440	1.74	1263	1.47	1500
40.0	0.00	0.00	0.00	0.440	1.99	1108	1.66	1325
50.0	0.00	0.00	0.00	0.440	2.24	984	1.87	1174
60.0	0.00	0.00	0.00	0.440	2.48	886	2.10	1049
70.0	0.00	0.00	0.00	0.440	2.73	808	2.33	945
80.0	0.00	0.00	0.00	0.440	2.96	744	2.56	860
90.0	0.00	0.00	0.00	0.440	3.18	692	2.78	791
100.0	0.00	0.00	0.00	0.440	3.30	667	3.00	733
110.0	0.00	0.00	0.00	0.440	3.42	644	3.22	685
120.0	0.00	0.00	0.00	0.440	3.54	623	3.42	644
130.0	0.00	0.00	0.00	0.440	3.65	603	3.62	608
167.0	0.00	0.00	0.00	0.440	4.08	541	4.08	541
212.0	0.00	0.00	0.00	0.440	4.56	484	4.56	484

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.75

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.475	5.54	3000	5.54	3000*
0.0	0.00	0.00	0.00	0.440	3.71	1336	3.35	1479
30.0	0.00	0.00	0.00	0.440	4.67	1060	4.23	1170
40.0	0.00	0.00	0.00	0.440	4.98	995	4.53	1094
50.0	0.00	0.00	0.00	0.440	5.28	939	4.82	1028
60.0	0.00	0.00	0.00	0.440	5.57	890	5.10	971
70.0	0.00	0.00	0.00	0.440	5.85	848	5.38	921
80.0	0.00	0.00	0.00	0.440	6.12	810	5.66	876
90.0	0.00	0.00	0.00	0.440	6.38	777	5.92	837
100.0	0.00	0.00	0.00	0.440	6.62	749	6.18	802
110.0	0.00	0.00	0.00	0.440	6.77	733	6.43	771
120.0	0.00	0.00	0.00	0.440	6.92	717	6.68	743
130.0	0.00	0.00	0.00	0.440	7.06	702	6.91	717
167.0	0.00	0.00	0.00	0.440	7.59	654	7.59	654
212.0	0.00	0.00	0.00	0.440	8.20	606	8.20	606

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.475	9.86	3000	9.86	3000*
0.0	0.00	0.00	0.00	0.440	7.93	1111	7.48	1178
30.0	0.00	0.00	0.00	0.440	8.95	985	8.47	1041
40.0	0.00	0.00	0.00	0.440	9.27	951	8.78	1004
50.0	0.00	0.00	0.00	0.440	9.58	920	9.09	970
60.0	0.00	0.00	0.00	0.440	9.89	892	9.40	939
70.0	0.00	0.00	0.00	0.440	10.19	866	9.69	910
80.0	0.00	0.00	0.00	0.440	10.48	842	9.98	884
90.0	0.00	0.00	0.00	0.440	10.76	820	10.27	859
100.0	0.00	0.00	0.00	0.440	11.04	799	10.55	837
110.0	0.00	0.00	0.00	0.440	11.26	784	10.82	816
120.0	0.00	0.00	0.00	0.440	11.42	773	11.09	796
130.0	0.00	0.00	0.00	0.440	11.59	762	11.35	778
167.0	0.00	0.00	0.00	0.440	12.19	725	12.19	725
212.0	0.00	0.00	0.00	0.440	12.89	686	12.89	686

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.76

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.475	15.42	3000	15.42	3000*
0.0	0.00	0.00	0.00	0.440	13.49	1023	13.02	1059
30.0	0.00	0.00	0.00	0.440	14.50	952	14.01	985
40.0	0.00	0.00	0.00	0.440	14.82	931	14.33	963
50.0	0.00	0.00	0.00	0.440	15.14	911	14.64	942
60.0	0.00	0.00	0.00	0.440	15.46	893	14.95	923
70.0	0.00	0.00	0.00	0.440	15.76	876	15.25	905
80.0	0.00	0.00	0.00	0.440	16.07	859	15.55	887
90.0	0.00	0.00	0.00	0.440	16.37	844	15.85	871
100.0	0.00	0.00	0.00	0.440	16.66	829	16.14	855
110.0	0.00	0.00	0.00	0.440	16.93	816	16.43	841
120.0	0.00	0.00	0.00	0.440	17.11	807	16.71	827
130.0	0.00	0.00	0.00	0.440	17.29	799	16.99	813
167.0	0.00	0.00	0.00	0.440	17.94	771	17.94	771
212.0	0.00	0.00	0.00	0.440	18.70	739	18.70	739

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.77

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-5	0-6	0-7
100.00	0-3	0-3	0-4	0-4	0-5	0-7	0-8	0-10	0-11	1-1
125.00	0-5	0-5	0-6	0-7	0-8	0-10	1-1	1-3	1-6	1-9
150.00	0-7	0-7	0-9	0-10	1-0	1-3	1-6	1-10	2-2	2-6
175.00	0-9	0-10	1-0	1-2	1-4	1-8	2-1	2-6	2-11	3-5
200.00	1-0	1-1	1-3	1-6	1-10	2-2	2-8	3-3	3-10	4-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-7	0-8
100.00	0-3	0-4	0-5	0-6	0-8	0-9	0-11	1-0	1-1	1-2
125.00	0-5	0-6	0-7	0-9	1-0	1-3	1-5	1-7	1-8	1-9
150.00	0-7	0-9	0-11	1-1	1-5	1-9	2-1	2-3	2-5	2-7
175.00	0-10	1-0	1-3	1-6	1-11	2-5	2-10	3-0	3-3	3-6
200.00	1-1	1-4	1-7	2-0	2-6	3-1	3-8	3-11	4-3	4-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.78

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10
125.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
150.00	0-9	0-10	0-11	1-1	1-2	1-4	1-5	1-7	1-8	1-10
175.00	1-0	1-1	1-3	1-5	1-7	1-9	2-0	2-2	2-4	2-6
200.00	1-4	1-6	1-8	1-10	2-1	2-4	2-7	2-9	3-0	3-3
225.00	1-8	1-10	2-1	2-4	2-8	2-11	3-3	3-6	3-10	4-1
250.00	2-0	2-4	2-7	2-11	3-3	3-8	4-0	4-4	4-8	5-0

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-10
125.00	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-3	1-4
150.00	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-9	1-10	1-11
175.00	1-2	1-4	1-6	1-9	1-11	2-1	2-3	2-5	2-6	2-7
200.00	1-6	1-9	2-0	2-3	2-6	2-9	3-0	3-2	3-4	3-5
225.00	1-11	2-2	2-6	2-10	3-2	3-5	3-9	4-0	4-2	4-4
250.00	2-4	2-9	3-1	3-6	3-11	4-3	4-7	5-0	5-2	5-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.79

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Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-7
175.00	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-2
200.00	1-9	1-11	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-10
225.00	2-3	2-5	2-7	2-9	2-10	3-0	3-2	3-4	3-6	3-7
250.00	2-9	2-11	3-2	3-4	3-7	3-9	3-11	4-1	4-3	4-6
275.00	3-4	3-7	3-10	4-1	4-3	4-6	4-9	5-0	5-2	5-5
300.00	3-11	4-3	4-6	4-10	5-1	5-5	5-8	5-11	6-2	6-5
325.00	4-7	5-0	5-4	5-8	6-0	6-4	6-8	6-11	7-3	7-7
350.00	5-4	5-9	6-2	6-7	6-11	7-4	7-8	8-1	8-5	8-9
375.00	6-2	6-7	7-1	7-6	8-0	8-5	8-10	9-3	9-8	10-1

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-1	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-8
175.00	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2	2-3	2-4
200.00	1-11	2-1	2-3	2-4	2-6	2-7	2-9	2-10	2-11	3-0
225.00	2-5	2-8	2-10	3-0	3-2	3-3	3-5	3-7	3-9	3-10
250.00	3-0	3-3	3-5	3-8	3-10	4-1	4-3	4-5	4-7	4-8
275.00	3-8	3-11	4-2	4-5	4-8	4-11	5-2	5-4	5-7	5-8
300.00	4-4	4-8	5-0	5-3	5-7	5-10	6-1	6-5	6-7	6-9
325.00	5-1	5-6	5-10	6-2	6-6	6-10	7-2	7-6	7-9	7-11
350.00	5-11	6-4	6-9	7-2	7-7	8-0	8-4	8-8	9-0	9-3
375.00	6-10	7-4	7-9	8-3	8-8	9-2	9-7	10-0	10-4	10-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.80

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8
225.00	2-7	2-8	2-9	2-11	3-0	3-1	3-2	3-3	3-4	3-5
250.00	3-2	3-4	3-5	3-7	3-8	3-9	3-11	4-0	4-1	4-3
275.00	3-10	4-0	4-2	4-4	4-5	4-7	4-9	4-10	5-0	5-1
300.00	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-1
325.00	5-5	5-7	5-10	6-0	6-2	6-5	6-7	6-9	7-0	7-2
350.00	6-3	6-6	6-9	7-0	7-2	7-5	7-8	7-10	8-1	8-3
375.00	7-2	7-5	7-9	8-0	8-3	8-6	8-9	9-0	9-3	9-6
400.00	8-2	8-6	8-9	9-1	9-5	9-8	10-0	10-3	10-7	10-10
425.00	9-2	9-7	9-11	10-3	10-7	10-11	11-3	11-7	11-11	12-3
450.00	10-4	10-9	11-1	11-6	11-11	12-3	12-8	13-0	13-4	13-8
475.00	11-6	11-11	12-5	12-10	13-3	13-8	14-1	14-6	14-11	15-3
500.00	12-9	13-3	13-9	14-3	14-8	15-2	15-7	16-1	16-6	16-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-2	2-3	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10
225.00	2-9	2-10	2-11	3-0	3-2	3-3	3-4	3-5	3-6	3-7
250.00	3-4	3-6	3-7	3-9	3-10	4-0	4-1	4-2	4-4	4-5
275.00	4-1	4-3	4-5	4-6	4-8	4-10	4-11	5-1	5-3	5-4
300.00	4-10	5-0	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-4
325.00	5-8	5-11	6-1	6-4	6-6	6-9	6-11	7-1	7-3	7-5
350.00	6-7	6-10	7-1	7-4	7-7	7-10	8-0	8-3	8-5	8-7
375.00	7-7	7-10	8-2	8-5	8-8	8-11	9-3	9-6	9-8	9-11
400.00	8-7	8-11	9-3	9-7	9-11	10-2	10-6	10-9	11-1	11-3
425.00	9-9	10-1	10-6	10-10	11-2	11-6	11-10	12-2	12-6	12-9
450.00	10-11	11-4	11-9	12-2	12-6	12-11	13-3	13-8	14-0	14-3
475.00	12-2	12-7	13-1	13-6	13-11	14-4	14-9	15-2	15-7	15-11
500.00	13-6	14-0	14-6	15-0	15-5	15-11	16-5	16-10	17-3	17-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.81

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-11	4-0	4-1
275.00	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-11	5-0
300.00	4-11	5-0	5-2	5-3	5-5	5-6	5-7	5-8	5-10	5-11
325.00	5-9	5-11	6-1	6-2	6-4	6-5	6-7	6-8	6-10	6-11
350.00	6-8	6-10	7-0	7-2	7-4	7-6	7-7	7-9	7-11	8-1
375.00	7-8	7-11	8-1	8-3	8-5	8-7	8-9	8-11	9-1	9-3
400.00	8-9	9-0	9-2	9-4	9-7	9-9	9-11	10-2	10-4	10-6
425.00	9-11	10-1	10-4	10-7	10-10	11-0	11-3	11-5	11-8	11-10
450.00	11-1	11-4	11-7	11-10	12-1	12-4	12-7	12-10	13-1	13-4
475.00	12-4	12-8	12-11	13-3	13-6	13-9	14-0	14-4	14-7	14-10
500.00	13-8	14-0	14-4	14-8	14-11	15-3	15-7	15-10	16-2	16-5
525.00	15-1	15-5	15-10	16-2	16-6	16-10	17-2	17-6	17-10	18-1
550.00	16-7	16-11	17-4	17-9	18-1	18-6	18-10	19-2	19-6	19-11
575.00	18-1	18-6	18-11	19-4	19-9	20-2	20-7	21-0	21-4	21-9
600.00	19-9	20-2	20-8	21-1	21-6	22-0	22-5	22-10	23-3	23-8
625.00	21-5	21-11	22-5	22-11	23-4	23-10	24-4	24-9	25-3	25-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3
275.00	4-3	4-5	4-6	4-7	4-8	4-9	4-10	4-11	5-0	5-1
300.00	5-1	5-3	5-4	5-5	5-7	5-8	5-9	5-11	6-0	6-1
325.00	6-0	6-1	6-3	6-5	6-6	6-8	6-9	6-11	7-0	7-2
350.00	6-11	7-1	7-3	7-5	7-7	7-9	7-10	8-0	8-2	8-3
375.00	8-0	8-2	8-4	8-6	8-8	8-10	9-0	9-2	9-4	9-6
400.00	9-1	9-3	9-6	9-8	9-11	10-1	10-3	10-6	10-8	10-10
425.00	10-3	10-6	10-8	10-11	11-2	11-5	11-7	11-10	12-0	12-3
450.00	11-6	11-9	12-0	12-3	12-6	12-9	13-0	13-3	13-6	13-9
475.00	12-9	13-1	13-5	13-8	13-11	14-3	14-6	14-9	15-0	15-3
500.00	14-2	14-6	14-10	15-2	15-5	15-9	16-1	16-4	16-8	16-11
525.00	15-7	16-0	16-4	16-8	17-0	17-5	17-9	18-1	18-4	18-8
550.00	17-2	17-7	17-11	18-4	18-8	19-1	19-5	19-10	20-2	20-6
575.00	18-9	19-2	19-7	20-0	20-5	20-10	21-3	21-8	22-1	22-5
600.00	20-5	20-11	21-4	21-10	22-3	22-9	23-2	23-7	24-0	24-5
625.00	22-2	22-8	23-2	23-8	24-2	24-8	25-1	25-7	26-1	26-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.82

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.748	4.73	1000	4.73	1000*
0.0	0.00	0.00	0.00	0.440	4.60	121	4.57	121
30.0	0.00	0.00	0.00	0.440	4.75	117	4.72	117
40.0	0.00	0.00	0.00	0.440	4.79	116	4.77	116
50.0	0.00	0.00	0.00	0.440	4.83	115	4.81	115
60.0	0.00	0.00	0.00	0.440	4.86	114	4.85	114
70.0	0.00	0.00	0.00	0.440	4.89	114	4.89	114
80.0	0.00	0.00	0.00	0.440	4.92	113	4.92	113
90.0	0.00	0.00	0.00	0.440	4.94	112	4.94	112
100.0	0.00	0.00	0.00	0.440	4.97	112	4.97	112
110.0	0.00	0.00	0.00	0.440	5.00	111	5.00	111
120.0	0.00	0.00	0.00	0.440	5.02	111	5.02	111
130.0	0.00	0.00	0.00	0.440	5.05	110	5.05	110
167.0	0.00	0.00	0.00	0.440	5.15	108	5.15	108
212.0	0.00	0.00	0.00	0.440	5.27	106	5.27	106

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.748	19.45	1000	19.45	1000*
0.0	0.00	0.00	0.00	0.440	19.33	118	19.30	118
30.0	0.00	0.00	0.00	0.440	19.47	117	19.45	117
40.0	0.00	0.00	0.00	0.440	19.52	117	19.50	117
50.0	0.00	0.00	0.00	0.440	19.56	117	19.54	117
60.0	0.00	0.00	0.00	0.440	19.59	117	19.58	117
70.0	0.00	0.00	0.00	0.440	19.62	116	19.62	116
80.0	0.00	0.00	0.00	0.440	19.64	116	19.64	116
90.0	0.00	0.00	0.00	0.440	19.67	116	19.67	116
100.0	0.00	0.00	0.00	0.440	19.70	116	19.70	116
110.0	0.00	0.00	0.00	0.440	19.73	116	19.73	116
120.0	0.00	0.00	0.00	0.440	19.76	116	19.76	116
130.0	0.00	0.00	0.00	0.440	19.79	116	19.79	116
167.0	0.00	0.00	0.00	0.440	19.89	115	19.89	115
212.0	0.00	0.00	0.00	0.440	20.02	114	20.02	114

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.83

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.748	46.20	1000	46.20	1000*
0.0	0.00	0.00	0.00	0.440	46.07	118	46.04	118
30.0	0.00	0.00	0.00	0.440	46.22	117	46.19	117
40.0	0.00	0.00	0.00	0.440	46.26	117	46.24	117
50.0	0.00	0.00	0.00	0.440	46.30	117	46.28	117
60.0	0.00	0.00	0.00	0.440	46.33	117	46.32	117
70.0	0.00	0.00	0.00	0.440	46.36	117	46.36	117
80.0	0.00	0.00	0.00	0.440	46.39	117	46.39	117
90.0	0.00	0.00	0.00	0.440	46.42	117	46.42	117
100.0	0.00	0.00	0.00	0.440	46.44	117	46.44	117
110.0	0.00	0.00	0.00	0.440	46.47	117	46.47	117
120.0	0.00	0.00	0.00	0.440	46.50	117	46.50	117
130.0	0.00	0.00	0.00	0.440	46.53	117	46.53	117
167.0	0.00	0.00	0.00	0.440	46.63	116	46.63	116
212.0	0.00	0.00	0.00	0.440	46.76	116	46.76	116

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.84

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2- 7	2- 8	2- 8	2- 8	2- 9	2- 9	2- 9	2- 9	2- 9	2-10
100.00	4- 8	4- 9	4- 9	4-10	4-10	4-11	4-11	4-11	5- 0	5- 0
125.00	7- 4	7- 5	7- 6	7- 6	7- 7	7- 8	7- 8	7- 9	7- 9	7-10
150.00	10- 7	10- 8	10- 9	10-10	11- 0	11- 0	11- 1	11- 2	11- 3	11- 3
175.00	14- 5	14- 7	14- 8	14-10	15- 0	15- 1	15- 2	15- 3	15- 4	15- 5
200.00	18-10	19- 1	19- 3	19- 5	19- 7	19- 9	19-10	20- 0	20- 1	20- 2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2- 8	2- 8	2- 8	2- 9	2- 9	2- 9	2- 9	2- 9	2- 9	2-10
100.00	4- 8	4- 9	4-10	4-10	4-10	4-11	4-11	4-11	5- 0	5- 0
125.00	7- 4	7- 5	7- 6	7- 7	7- 7	7- 8	7- 8	7- 9	7- 9	7-10
150.00	10- 8	10- 9	10-10	10-11	11- 0	11- 0	11- 1	11- 2	11- 3	11- 3
175.00	14- 6	14- 8	14- 9	14-11	15- 0	15- 1	15- 2	15- 3	15- 4	15- 5
200.00	19- 0	19- 2	19- 4	19- 6	19- 7	19- 9	19-10	20- 0	20- 1	20- 2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.85

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-10	4-10	4-10	4-10	4-10	4-10	4-10	4-10	4-11	4-11
125.00	7- 6	7- 6	7- 7	7- 7	7- 7	7- 7	7- 7	7- 8	7- 8	7- 8
150.00	10-10	10-11	10-11	10-11	10-11	11- 0	11- 0	11- 0	11- 0	11- 0
175.00	14-10	14-10	14-11	14-11	14-11	15- 0	15- 0	15- 0	15- 0	15- 1
200.00	19- 5	19- 5	19- 6	19- 6	19- 7	19- 7	19- 8	19- 8	19- 8	19- 9
225.00	24- 8	24- 8	24- 9	24-10	24-10	24-11	24-11	25- 0	25- 0	25- 1
250.00	30- 6	30- 7	30- 8	30- 9	30-10	30-10	30-11	30-11	31- 0	31- 1

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-10	4-10	4-10	4-10	4-10	4-10	4-10	4-10	4-11	4-11
125.00	7- 6	7- 7	7- 7	7- 7	7- 7	7- 7	7- 7	7- 8	7- 8	7- 8
150.00	10-10	10-11	10-11	10-11	10-11	11- 0	11- 0	11- 0	11- 0	11- 0
175.00	14-10	14-10	14-11	14-11	14-11	15- 0	15- 0	15- 0	15- 0	15- 1
200.00	19- 5	19- 6	19- 6	19- 7	19- 7	19- 7	19- 8	19- 8	19- 8	19- 9
225.00	24- 8	24- 9	24- 9	24-10	24-10	24-11	24-11	25- 0	25- 0	25- 1
250.00	30- 7	30- 8	30- 9	30- 9	30-10	30-10	30-11	30-11	31- 0	31- 1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.86

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	11- 3	11- 4	11- 4	11- 4	11- 4	11- 4	11- 4	11- 4	11- 4	11- 4
175.00	15- 5	15- 5	15- 5	15- 5	15- 5	15- 6	15- 6	15- 6	15- 6	15- 6
200.00	20- 2	20- 2	20- 3	20- 3	20- 3	20- 3	20- 3	20- 3	20- 4	20- 4
225.00	25- 7	25- 8	25- 8	25- 8	25- 9	25- 9	25- 9	25- 9	25- 9	25-10
250.00	31- 9	31- 9	31-10	31-10	31-11	31-11	31-11	31-11	32- 0	32- 0
275.00	38- 7	38- 8	38- 8	38- 8	38- 9	38- 9	38-10	38-10	38-10	38-10
300.00	46- 2	46- 2	46- 3	46- 3	46- 4	46- 4	46- 5	46- 5	46- 5	46- 6
325.00	54- 5	54- 6	54- 7	54- 7	54- 8	54- 8	54- 9	54- 9	54- 9	54-10
350.00	63- 6	63- 7	63- 7	63- 8	63- 9	63- 9	63-10	63-10	63-11	63-11
375.00	73- 4	73- 5	73- 6	73- 6	73- 7	73- 8	73- 8	73- 9	73-10	73-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	11- 3	11- 4	11- 4	11- 4	11- 4	11- 4	11- 4	11- 4	11- 4	11- 4
175.00	15- 5	15- 5	15- 5	15- 5	15- 5	15- 6	15- 6	15- 6	15- 6	15- 6
200.00	20- 2	20- 2	20- 3	20- 3	20- 3	20- 3	20- 3	20- 3	20- 4	20- 4
225.00	25- 8	25- 8	25- 8	25- 8	25- 9	25- 9	25- 9	25- 9	25- 9	25-10
250.00	31- 9	31-10	31-10	31-10	31-11	31-11	31-11	31-11	32- 0	32- 0
275.00	38- 7	38- 8	38- 8	38- 9	38- 9	38- 9	38-10	38-10	38-10	38-10
300.00	46- 2	46- 3	46- 3	46- 4	46- 4	46- 4	46- 5	46- 5	46- 5	46- 6
325.00	54- 6	54- 6	54- 7	54- 7	54- 8	54- 8	54- 9	54- 9	54- 9	54-10
350.00	63- 6	63- 7	63- 8	63- 8	63- 9	63- 9	63-10	63-10	63-11	63-11
375.00	73- 4	73- 5	73- 6	73- 7	73- 7	73- 8	73- 8	73- 9	73-10	73-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.87

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.748	3.14	1500	3.14	1500*
0.0	0.00	0.00	0.00	0.440	2.88	191	2.80	197
30.0	0.00	0.00	0.00	0.440	3.09	179	3.04	181
40.0	0.00	0.00	0.00	0.440	3.15	175	3.11	178
50.0	0.00	0.00	0.00	0.440	3.21	172	3.17	174
60.0	0.00	0.00	0.00	0.440	3.25	170	3.23	171
70.0	0.00	0.00	0.00	0.440	3.29	168	3.29	168
80.0	0.00	0.00	0.00	0.440	3.33	166	3.33	166
90.0	0.00	0.00	0.00	0.440	3.37	164	3.37	164
100.0	0.00	0.00	0.00	0.440	3.41	162	3.41	162
110.0	0.00	0.00	0.00	0.440	3.45	160	3.45	160
120.0	0.00	0.00	0.00	0.440	3.49	158	3.49	158
130.0	0.00	0.00	0.00	0.440	3.53	157	3.53	157
167.0	0.00	0.00	0.00	0.440	3.67	151	3.67	151
212.0	0.00	0.00	0.00	0.440	3.83	145	3.83	145

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.748	12.70	1500	12.70	1500*
0.0	0.00	0.00	0.00	0.440	12.45	179	12.37	181
30.0	0.00	0.00	0.00	0.440	12.65	177	12.60	177
40.0	0.00	0.00	0.00	0.440	12.71	176	12.67	176
50.0	0.00	0.00	0.00	0.440	12.77	175	12.73	176
60.0	0.00	0.00	0.00	0.440	12.82	174	12.79	175
70.0	0.00	0.00	0.00	0.440	12.86	174	12.85	174
80.0	0.00	0.00	0.00	0.440	12.90	173	12.90	173
90.0	0.00	0.00	0.00	0.440	12.95	173	12.95	173
100.0	0.00	0.00	0.00	0.440	12.99	172	12.99	172
110.0	0.00	0.00	0.00	0.440	13.03	172	13.03	172
120.0	0.00	0.00	0.00	0.440	13.07	171	13.07	171
130.0	0.00	0.00	0.00	0.440	13.11	171	13.11	171
167.0	0.00	0.00	0.00	0.440	13.27	169	13.27	169
212.0	0.00	0.00	0.00	0.440	13.45	167	13.45	167

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.88

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.748	29.18	1500	29.18	1500*
0.0	0.00	0.00	0.00	0.440	28.93	177	28.86	178
30.0	0.00	0.00	0.00	0.440	29.13	176	29.09	177
40.0	0.00	0.00	0.00	0.440	29.20	176	29.15	176
50.0	0.00	0.00	0.00	0.440	29.26	176	29.21	176
60.0	0.00	0.00	0.00	0.440	29.30	175	29.27	176
70.0	0.00	0.00	0.00	0.440	29.34	175	29.34	175
80.0	0.00	0.00	0.00	0.440	29.39	175	29.39	175
90.0	0.00	0.00	0.00	0.440	29.43	175	29.43	175
100.0	0.00	0.00	0.00	0.440	29.47	174	29.47	174
110.0	0.00	0.00	0.00	0.440	29.51	174	29.51	174
120.0	0.00	0.00	0.00	0.440	29.56	174	29.56	174
130.0	0.00	0.00	0.00	0.440	29.60	174	29.60	174
167.0	0.00	0.00	0.00	0.440	29.76	173	29.76	173
212.0	0.00	0.00	0.00	0.440	29.95	172	29.95	172

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.748	53.58	1500	53.58	1500*
0.0	0.00	0.00	0.00	0.440	53.34	177	53.26	177
30.0	0.00	0.00	0.00	0.440	53.54	176	53.49	176
40.0	0.00	0.00	0.00	0.440	53.60	176	53.56	176
50.0	0.00	0.00	0.00	0.440	53.66	176	53.62	176
60.0	0.00	0.00	0.00	0.440	53.70	176	53.68	176
70.0	0.00	0.00	0.00	0.440	53.75	176	53.74	176
80.0	0.00	0.00	0.00	0.440	53.79	175	53.79	175
90.0	0.00	0.00	0.00	0.440	53.84	175	53.84	175
100.0	0.00	0.00	0.00	0.440	53.88	175	53.88	175
110.0	0.00	0.00	0.00	0.440	53.92	175	53.92	175
120.0	0.00	0.00	0.00	0.440	53.96	175	53.96	175
130.0	0.00	0.00	0.00	0.440	54.01	175	54.01	175
167.0	0.00	0.00	0.00	0.440	54.16	174	54.16	174
212.0	0.00	0.00	0.00	0.440	54.35	174	54.35	174

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.89

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.748	87.81	1500	87.81	1500*
0.0	0.00	0.00	0.00	0.440	87.56	176	87.49	177
30.0	0.00	0.00	0.00	0.440	87.76	176	87.72	176
40.0	0.00	0.00	0.00	0.440	87.83	176	87.78	176
50.0	0.00	0.00	0.00	0.440	87.89	176	87.84	176
60.0	0.00	0.00	0.00	0.440	87.93	176	87.90	176
70.0	0.00	0.00	0.00	0.440	87.97	176	87.97	176
80.0	0.00	0.00	0.00	0.440	88.02	176	88.02	176
90.0	0.00	0.00	0.00	0.440	88.06	176	88.06	176
100.0	0.00	0.00	0.00	0.440	88.10	176	88.10	176
110.0	0.00	0.00	0.00	0.440	88.14	176	88.14	176
120.0	0.00	0.00	0.00	0.440	88.19	175	88.19	175
130.0	0.00	0.00	0.00	0.440	88.23	175	88.23	175
167.0	0.00	0.00	0.00	0.440	88.39	175	88.39	175
212.0	0.00	0.00	0.00	0.440	88.58	175	88.58	175

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.90

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11	1-11
100.00	3-0	3-1	3-1	3-2	3-3	3-3	3-4	3-4	3-5	3-5
125.00	4-8	4-9	4-10	4-11	5-1	5-2	5-3	5-3	5-4	5-5
150.00	6-8	6-10	7-0	7-2	7-3	7-5	7-6	7-7	7-8	7-9
175.00	9-1	9-4	9-6	9-9	9-11	10-1	10-3	10-4	10-6	10-7
200.00	11-11	12-3	12-6	12-9	13-0	13-3	13-5	13-7	13-9	13-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-8	1-9	1-9	1-10	1-10	1-10	1-10	1-11	1-11	1-11
100.00	3-0	3-1	3-2	3-3	3-3	3-4	3-4	3-4	3-5	3-5
125.00	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-3	5-4	5-5
150.00	6-10	7-0	7-1	7-3	7-4	7-5	7-6	7-7	7-8	7-9
175.00	9-3	9-6	9-8	9-10	10-0	10-1	10-3	10-4	10-6	10-7
200.00	12-2	12-5	12-8	12-11	13-1	13-3	13-5	13-7	13-9	13-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.91

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-1	3-2	3-2	3-2	3-2	3-2	3-3	3-3	3-3	3-3
125.00	4-11	4-11	4-11	4-11	5-0	5-0	5-0	5-0	5-1	5-1
150.00	7-0	7-1	7-1	7-2	7-2	7-3	7-3	7-3	7-3	7-4
175.00	9-7	9-8	9-8	9-9	9-9	9-10	9-10	9-11	9-11	10-0
200.00	12-6	12-7	12-8	12-9	12-9	12-10	12-11	12-11	13-0	13-0
225.00	15-10	16-0	16-1	16-2	16-3	16-3	16-4	16-5	16-6	16-6
250.00	19-8	19-9	19-10	19-11	20-1	20-2	20-3	20-3	20-4	20-5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-2	3-2	3-2	3-2	3-2	3-2	3-3	3-3	3-3	3-3
125.00	4-11	4-11	4-11	5-0	5-0	5-0	5-0	5-0	5-1	5-1
150.00	7-1	7-1	7-2	7-2	7-2	7-3	7-3	7-3	7-3	7-4
175.00	9-7	9-8	9-9	9-9	9-10	9-10	9-10	9-11	9-11	10-0
200.00	12-7	12-8	12-9	12-9	12-10	12-10	12-11	12-11	13-0	13-0
225.00	15-11	16-0	16-1	16-2	16-3	16-4	16-4	16-5	16-6	16-6
250.00	19-9	19-10	19-11	20-0	20-1	20-2	20-3	20-3	20-4	20-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.92

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-2	7-2	7-3	7-3	7-3	7-3	7-3	7-3	7-4	7-4
175.00	9-10	9-10	9-10	9-10	9-11	9-11	9-11	9-11	9-11	10-0
200.00	12-10	12-10	12-10	12-11	12-11	12-11	13-0	13-0	13-0	13-0
225.00	16-3	16-3	16-4	16-4	16-5	16-5	16-5	16-6	16-6	16-6
250.00	20-1	20-1	20-2	20-3	20-3	20-4	20-4	20-4	20-5	20-5
275.00	24-4	24-5	24-5	24-6	24-7	24-7	24-8	24-8	24-9	24-9
300.00	29-0	29-1	29-2	29-3	29-3	29-4	29-5	29-5	29-6	29-6
325.00	34-1	34-2	34-3	34-4	34-5	34-6	34-7	34-7	34-8	34-9
350.00	39-8	39-9	39-10	39-11	40-0	40-1	40-2	40-3	40-4	40-4
375.00	45-8	45-9	45-10	46-0	46-1	46-2	46-3	46-4	46-5	46-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-2	7-3	7-3	7-3	7-3	7-3	7-3	7-3	7-4	7-4
175.00	9-10	9-10	9-10	9-10	9-11	9-11	9-11	9-11	9-11	10-0
200.00	12-10	12-10	12-11	12-11	12-11	12-11	13-0	13-0	13-0	13-0
225.00	16-3	16-4	16-4	16-4	16-5	16-5	16-5	16-6	16-6	16-6
250.00	20-1	20-2	20-2	20-3	20-3	20-4	20-4	20-4	20-5	20-5
275.00	24-5	24-5	24-6	24-6	24-7	24-7	24-8	24-8	24-9	24-9
300.00	29-1	29-2	29-2	29-3	29-4	29-4	29-5	29-5	29-6	29-6
325.00	34-2	34-3	34-4	34-5	34-6	34-6	34-7	34-7	34-8	34-9
350.00	39-9	39-10	39-11	40-0	40-1	40-1	40-2	40-3	40-4	40-4
375.00	45-9	45-10	45-11	46-0	46-1	46-2	46-3	46-4	46-5	46-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.93

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	13-2	13-2	13-2	13-2	13-2	13-2	13-3	13-3	13-3	13-3
225.00	16-8	16-8	16-8	16-8	16-9	16-9	16-9	16-9	16-9	16-10
250.00	20-7	20-7	20-8	20-8	20-8	20-8	20-9	20-9	20-9	20-9
275.00	24-11	25-0	25-0	25-0	25-1	25-1	25-1	25-2	25-2	25-2
300.00	29-9	29-10	29-10	29-10	29-11	29-11	29-11	30-0	30-0	30-0
325.00	35-0	35-0	35-1	35-1	35-2	35-2	35-3	35-3	35-3	35-4
350.00	40-8	40-9	40-9	40-10	40-11	40-11	41-0	41-0	41-0	41-1
375.00	46-10	46-11	46-11	47-0	47-1	47-1	47-2	47-2	47-3	47-3
400.00	53-5	53-6	53-7	53-7	53-8	53-9	53-10	53-10	53-11	53-11
425.00	60-6	60-7	60-8	60-8	60-9	60-10	60-11	60-11	61-0	61-1
450.00	68-0	68-1	68-2	68-3	68-4	68-5	68-6	68-7	68-7	68-8
475.00	76-0	76-2	76-3	76-4	76-5	76-6	76-7	76-8	76-8	76-9
500.00	84-6	84-8	84-9	84-10	84-11	85-1	85-2	85-3	85-3	85-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	13-2	13-2	13-2	13-2	13-2	13-2	13-3	13-3	13-3	13-3
225.00	16-8	16-8	16-8	16-9	16-9	16-9	16-9	16-9	16-9	16-10
250.00	20-7	20-8	20-8	20-8	20-8	20-8	20-9	20-9	20-9	20-9
275.00	25-0	25-0	25-0	25-1	25-1	25-1	25-1	25-2	25-2	25-2
300.00	29-9	29-10	29-10	29-11	29-11	29-11	29-11	30-0	30-0	30-0
325.00	35-0	35-1	35-1	35-2	35-2	35-2	35-3	35-3	35-3	35-4
350.00	40-9	40-9	40-10	40-10	40-11	40-11	41-0	41-0	41-0	41-1
375.00	46-10	46-11	47-0	47-0	47-1	47-1	47-2	47-2	47-3	47-3
400.00	53-6	53-6	53-7	53-8	53-8	53-9	53-10	53-10	53-11	53-11
425.00	60-7	60-7	60-8	60-9	60-10	60-10	60-11	60-11	61-0	61-1
450.00	68-1	68-2	68-3	68-4	68-5	68-5	68-6	68-7	68-7	68-8
475.00	76-1	76-2	76-4	76-5	76-5	76-6	76-7	76-8	76-8	76-9
500.00	84-7	84-9	84-10	84-11	85-0	85-1	85-2	85-3	85-3	85-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.94

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	21-4	21-4	21-4	21-4	21-4	21-4	21-5	21-5	21-5	21-5
275.00	25-10	25-10	25-10	25-11	25-11	25-11	25-11	25-11	25-11	26-0
300.00	30-10	30-10	30-10	30-10	30-11	30-11	30-11	30-11	30-11	31-0
325.00	36-3	36-3	36-3	36-4	36-4	36-4	36-5	36-5	36-5	36-5
350.00	42-2	42-2	42-2	42-3	42-3	42-3	42-4	42-4	42-4	42-4
375.00	48-6	48-6	48-7	48-7	48-8	48-8	48-8	48-9	48-9	48-9
400.00	55-4	55-5	55-5	55-5	55-6	55-6	55-7	55-7	55-7	55-8
425.00	62-8	62-9	62-9	62-10	62-10	62-11	62-11	62-11	63-0	63-0
450.00	70-6	70-7	70-7	70-8	70-8	70-9	70-9	70-10	70-10	70-11
475.00	78-10	78-10	78-11	79-0	79-0	79-1	79-2	79-2	79-3	79-3
500.00	87-8	87-9	87-9	87-10	87-11	88-0	88-0	88-1	88-1	88-2
525.00	97-0	97-1	97-2	97-3	97-3	97-4	97-5	97-6	97-6	97-7
550.00	106-11	107-0	107-1	107-2	107-3	107-3	107-4	107-5	107-5	107-6
575.00	117-4	117-5	117-6	117-7	117-8	117-9	117-10	117-11	117-11	118-0
600.00	128-4	128-5	128-6	128-7	128-8	128-10	128-11	128-11	129-0	129-1
625.00	139-10	140-0	140-1	140-2	140-4	140-5	140-6	140-7	140-8	140-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	21-4	21-4	21-4	21-4	21-4	21-4	21-5	21-5	21-5	21-5
275.00	25-10	25-10	25-10	25-11	25-11	25-11	25-11	25-11	25-11	26-0
300.00	30-10	30-10	30-10	30-11	30-11	30-11	30-11	30-11	30-11	31-0
325.00	36-3	36-3	36-4	36-4	36-4	36-4	36-5	36-5	36-5	36-5
350.00	42-2	42-2	42-3	42-3	42-3	42-3	42-4	42-4	42-4	42-4
375.00	48-6	48-7	48-7	48-7	48-8	48-8	48-8	48-9	48-9	48-9
400.00	55-4	55-5	55-5	55-6	55-6	55-6	55-7	55-7	55-7	55-8
425.00	62-8	62-9	62-10	62-10	62-10	62-11	62-11	62-11	63-0	63-0
450.00	70-6	70-7	70-8	70-8	70-9	70-9	70-9	70-10	70-10	70-11
475.00	78-10	78-11	79-0	79-0	79-1	79-1	79-2	79-2	79-3	79-3
500.00	87-8	87-9	87-10	87-11	87-11	88-0	88-0	88-1	88-1	88-2
525.00	97-1	97-2	97-2	97-3	97-4	97-4	97-5	97-6	97-6	97-7
550.00	107-0	107-0	107-1	107-2	107-3	107-4	107-4	107-5	107-5	107-6
575.00	117-5	117-6	117-7	117-8	117-9	117-9	117-10	117-11	117-11	118-0
600.00	128-5	128-6	128-7	128-8	128-9	128-10	128-11	128-11	129-0	129-1
625.00	140-0	140-1	140-2	140-3	140-4	140-5	140-6	140-7	140-8	140-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.95

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.748	2.35	2000	2.35	2000*
0.0	0.00	0.00	0.00	0.440	1.89	291	1.76	313
30.0	0.00	0.00	0.00	0.440	2.18	253	2.09	264
40.0	0.00	0.00	0.00	0.440	2.27	243	2.18	253
50.0	0.00	0.00	0.00	0.440	2.34	235	2.26	244
60.0	0.00	0.00	0.00	0.440	2.40	230	2.34	235
70.0	0.00	0.00	0.00	0.440	2.45	225	2.42	227
80.0	0.00	0.00	0.00	0.440	2.50	220	2.50	220
90.0	0.00	0.00	0.00	0.440	2.55	216	2.55	216
100.0	0.00	0.00	0.00	0.440	2.60	212	2.60	212
110.0	0.00	0.00	0.00	0.440	2.65	208	2.65	208
120.0	0.00	0.00	0.00	0.440	2.70	204	2.70	204
130.0	0.00	0.00	0.00	0.440	2.75	201	2.75	201
167.0	0.00	0.00	0.00	0.440	2.92	189	2.92	189
212.0	0.00	0.00	0.00	0.440	3.12	177	3.12	177

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.748	9.45	2000	9.45	2000*
0.0	0.00	0.00	0.00	0.440	9.02	246	8.89	249
30.0	0.00	0.00	0.00	0.440	9.29	239	9.20	241
40.0	0.00	0.00	0.00	0.440	9.37	237	9.28	239
50.0	0.00	0.00	0.00	0.440	9.45	235	9.37	237
60.0	0.00	0.00	0.00	0.440	9.50	234	9.45	235
70.0	0.00	0.00	0.00	0.440	9.56	232	9.53	233
80.0	0.00	0.00	0.00	0.440	9.62	231	9.62	231
90.0	0.00	0.00	0.00	0.440	9.68	229	9.68	229
100.0	0.00	0.00	0.00	0.440	9.73	228	9.73	228
110.0	0.00	0.00	0.00	0.440	9.79	227	9.79	227
120.0	0.00	0.00	0.00	0.440	9.84	226	9.84	226
130.0	0.00	0.00	0.00	0.440	9.90	224	9.90	224
167.0	0.00	0.00	0.00	0.440	10.10	220	10.10	220
212.0	0.00	0.00	0.00	0.440	10.33	215	10.33	215

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.96

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.748	21.52	2000	21.52	2000*
0.0	0.00	0.00	0.00	0.440	21.09	239	20.96	241
30.0	0.00	0.00	0.00	0.440	21.35	237	21.26	237
40.0	0.00	0.00	0.00	0.440	21.44	236	21.35	237
50.0	0.00	0.00	0.00	0.440	21.51	235	21.43	236
60.0	0.00	0.00	0.00	0.440	21.57	234	21.52	235
70.0	0.00	0.00	0.00	0.440	21.63	234	21.60	234
80.0	0.00	0.00	0.00	0.440	21.68	233	21.68	233
90.0	0.00	0.00	0.00	0.440	21.74	232	21.74	232
100.0	0.00	0.00	0.00	0.440	21.80	232	21.80	232
110.0	0.00	0.00	0.00	0.440	21.86	231	21.86	231
120.0	0.00	0.00	0.00	0.440	21.91	231	21.91	231
130.0	0.00	0.00	0.00	0.440	21.97	230	21.97	230
167.0	0.00	0.00	0.00	0.440	22.18	228	22.18	228
212.0	0.00	0.00	0.00	0.440	22.42	226	22.42	226

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.748	38.90	2000	38.90	2000*
0.0	0.00	0.00	0.00	0.440	38.48	237	38.35	238
30.0	0.00	0.00	0.00	0.440	38.74	236	38.65	236
40.0	0.00	0.00	0.00	0.440	38.82	235	38.73	236
50.0	0.00	0.00	0.00	0.440	38.90	235	38.82	235
60.0	0.00	0.00	0.00	0.440	38.96	234	38.90	235
70.0	0.00	0.00	0.00	0.440	39.01	234	38.98	234
80.0	0.00	0.00	0.00	0.440	39.07	234	39.07	234
90.0	0.00	0.00	0.00	0.440	39.13	234	39.13	234
100.0	0.00	0.00	0.00	0.440	39.19	233	39.19	233
110.0	0.00	0.00	0.00	0.440	39.24	233	39.24	233
120.0	0.00	0.00	0.00	0.440	39.30	233	39.30	233
130.0	0.00	0.00	0.00	0.440	39.36	232	39.36	232
167.0	0.00	0.00	0.00	0.440	39.57	231	39.57	231
212.0	0.00	0.00	0.00	0.440	39.82	230	39.82	230

* Design Condition

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SHEET 97 OF 359

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.97

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.748	62.21	2000	62.21	2000*
0.0	0.00	0.00	0.00	0.440	61.79	236	61.66	237
30.0	0.00	0.00	0.00	0.440	62.04	235	61.96	236
40.0	0.00	0.00	0.00	0.440	62.13	235	62.04	235
50.0	0.00	0.00	0.00	0.440	62.20	235	62.12	235
60.0	0.00	0.00	0.00	0.440	62.26	235	62.21	235
70.0	0.00	0.00	0.00	0.440	62.32	234	62.29	235
80.0	0.00	0.00	0.00	0.440	62.38	234	62.37	234
90.0	0.00	0.00	0.00	0.440	62.44	234	62.44	234
100.0	0.00	0.00	0.00	0.440	62.49	234	62.49	234
110.0	0.00	0.00	0.00	0.440	62.55	234	62.55	234
120.0	0.00	0.00	0.00	0.440	62.61	233	62.61	233
130.0	0.00	0.00	0.00	0.440	62.66	233	62.66	233
167.0	0.00	0.00	0.00	0.440	62.87	233	62.87	233
212.0	0.00	0.00	0.00	0.440	63.13	232	63.13	232

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.98

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-1	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6
100.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-7	2-8
125.00	3-1	3-3	3-5	3-6	3-8	3-9	3-11	4-0	4-1	4-2
150.00	4-6	4-8	4-11	5-1	5-3	5-6	5-8	5-9	5-10	6-0
175.00	6-1	6-5	6-8	6-11	7-2	7-5	7-8	7-10	8-0	8-2
200.00	8-0	8-4	8-9	9-1	9-5	9-9	10-0	10-3	10-5	10-8

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-5	1-6	1-6
100.00	2-1	2-2	2-3	2-4	2-5	2-5	2-6	2-7	2-7	2-8
125.00	3-3	3-5	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
150.00	4-8	4-11	5-1	5-3	5-5	5-6	5-8	5-9	5-10	6-0
175.00	6-5	6-8	6-11	7-2	7-4	7-6	7-8	7-10	8-0	8-2
200.00	8-4	8-9	9-1	9-5	9-7	9-10	10-0	10-3	10-5	10-8

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SHEET 99 OF 359

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.99

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-3	2-4	2-4	2-4	2-4	2-5	2-5	2-5	2-5	2-5
125.00	3-7	3-7	3-7	3-8	3-8	3-9	3-9	3-9	3-10	3-10
150.00	5-1	5-2	5-3	5-3	5-4	5-4	5-5	5-5	5-6	5-6
175.00	7-0	7-0	7-1	7-2	7-3	7-4	7-4	7-5	7-5	7-6
200.00	9-1	9-2	9-3	9-4	9-5	9-6	9-7	9-8	9-9	9-9
225.00	11-6	11-8	11-9	11-10	12-0	12-1	12-2	12-3	12-4	12-5
250.00	14-3	14-5	14-6	14-8	14-10	14-11	15-1	15-2	15-3	15-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-4	2-4	2-4	2-4	2-4	2-5	2-5	2-5	2-5	2-5
125.00	3-7	3-7	3-8	3-8	3-8	3-9	3-9	3-9	3-10	3-10
150.00	5-2	5-3	5-3	5-4	5-4	5-4	5-5	5-5	5-6	5-6
175.00	7-0	7-1	7-2	7-3	7-3	7-4	7-4	7-5	7-5	7-6
200.00	9-2	9-3	9-4	9-5	9-6	9-7	9-7	9-8	9-9	9-9
225.00	11-8	11-9	11-10	12-0	12-0	12-1	12-2	12-3	12-4	12-5
250.00	14-5	14-6	14-8	14-9	14-11	15-0	15-1	15-2	15-3	15-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.100

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-3	5-3	5-4	5-4	5-4	5-4	5-5	5-5	5-5	5-5
175.00	7-2	7-2	7-3	7-3	7-3	7-4	7-4	7-4	7-5	7-5
200.00	9-5	9-5	9-5	9-6	9-6	9-7	9-7	9-8	9-8	9-8
225.00	11-11	11-11	12-0	12-0	12-1	12-1	12-2	12-2	12-3	12-3
250.00	14-8	14-9	14-10	14-10	14-11	15-0	15-0	15-1	15-1	15-2
275.00	17-9	17-10	17-11	18-0	18-1	18-2	18-2	18-3	18-4	18-4
300.00	21-2	21-3	21-4	21-5	21-6	21-7	21-8	21-9	21-10	21-10
325.00	24-11	25-0	25-1	25-2	25-3	25-5	25-6	25-7	25-7	25-8
350.00	28-11	29-0	29-2	29-3	29-4	29-6	29-7	29-8	29-9	29-10
375.00	33-2	33-4	33-6	33-7	33-9	33-11	34-0	34-1	34-2	34-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-3	5-4	5-4	5-4	5-4	5-5	5-5	5-5	5-5	5-5
175.00	7-2	7-3	7-3	7-3	7-4	7-4	7-4	7-4	7-5	7-5
200.00	9-5	9-5	9-6	9-6	9-7	9-7	9-7	9-8	9-8	9-8
225.00	11-11	12-0	12-0	12-1	12-1	12-2	12-2	12-2	12-3	12-3
250.00	14-9	14-10	14-10	14-11	14-11	15-0	15-0	15-1	15-1	15-2
275.00	17-10	17-11	18-0	18-1	18-1	18-2	18-2	18-3	18-4	18-4
300.00	21-3	21-4	21-5	21-6	21-7	21-8	21-8	21-9	21-10	21-10
325.00	25-0	25-1	25-2	25-3	25-4	25-5	25-6	25-7	25-7	25-8
350.00	29-0	29-2	29-3	29-4	29-5	29-6	29-7	29-8	29-9	29-10
375.00	33-4	33-6	33-7	33-9	33-10	33-11	34-0	34-1	34-2	34-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.101

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-7	9-7	9-7	9-7	9-8	9-8	9-8	9-8	9-8	9-9
225.00	12-1	12-2	12-2	12-2	12-2	12-3	12-3	12-3	12-4	12-4
250.00	14-11	15-0	15-0	15-1	15-1	15-1	15-2	15-2	15-2	15-3
275.00	18-1	18-2	18-2	18-3	18-3	18-4	18-4	18-4	18-5	18-5
300.00	21-7	21-8	21-8	21-9	21-9	21-10	21-10	21-11	21-11	21-11
325.00	25-4	25-5	25-6	25-6	25-7	25-8	25-8	25-9	25-9	25-10
350.00	29-5	29-6	29-7	29-8	29-8	29-9	29-10	29-10	29-11	30-0
375.00	33-10	33-11	34-0	34-1	34-2	34-3	34-3	34-4	34-5	34-5
400.00	38-7	38-8	38-9	38-10	38-11	39-0	39-1	39-2	39-2	39-3
425.00	43-7	43-8	43-10	43-11	44-0	44-1	44-2	44-3	44-4	44-5
450.00	48-11	49-1	49-2	49-3	49-5	49-6	49-7	49-8	49-9	49-10
475.00	54-8	54-9	54-11	55-0	55-2	55-3	55-4	55-6	55-7	55-8
500.00	60-8	60-10	60-11	61-1	61-2	61-4	61-6	61-7	61-8	61-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-7	9-7	9-7	9-8	9-8	9-8	9-8	9-8	9-8	9-9
225.00	12-2	12-2	12-2	12-2	12-3	12-3	12-3	12-3	12-4	12-4
250.00	15-0	15-0	15-1	15-1	15-1	15-2	15-2	15-2	15-2	15-3
275.00	18-2	18-2	18-3	18-3	18-4	18-4	18-4	18-4	18-5	18-5
300.00	21-8	21-8	21-9	21-9	21-10	21-10	21-10	21-11	21-11	21-11
325.00	25-5	25-6	25-6	25-7	25-7	25-8	25-8	25-9	25-9	25-10
350.00	29-6	29-7	29-8	29-8	29-9	29-9	29-10	29-10	29-11	30-0
375.00	33-11	34-0	34-1	34-2	34-2	34-3	34-3	34-4	34-5	34-5
400.00	38-8	38-9	38-10	38-11	38-11	39-0	39-1	39-2	39-2	39-3
425.00	43-8	43-10	43-11	44-0	44-1	44-1	44-2	44-3	44-4	44-5
450.00	49-1	49-2	49-4	49-5	49-6	49-6	49-7	49-8	49-9	49-10
475.00	54-9	54-11	55-0	55-2	55-3	55-4	55-5	55-6	55-7	55-8
500.00	60-10	60-11	61-1	61-2	61-3	61-5	61-6	61-7	61-8	61-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.102

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	15-3	15-3	15-3	15-4	15-4	15-4	15-4	15-5	15-5	15-5
275.00	18-6	18-6	18-6	18-6	18-7	18-7	18-7	18-8	18-8	18-8
300.00	22-0	22-0	22-1	22-1	22-1	22-2	22-2	22-2	22-3	22-3
325.00	25-10	25-11	25-11	25-11	26-0	26-0	26-1	26-1	26-1	26-1
350.00	30-0	30-1	30-1	30-2	30-2	30-3	30-3	30-3	30-4	30-4
375.00	34-6	34-7	34-7	34-8	34-8	34-9	34-9	34-10	34-10	34-11
400.00	39-4	39-4	39-5	39-6	39-6	39-7	39-8	39-8	39-9	39-9
425.00	44-5	44-6	44-7	44-8	44-8	44-9	44-10	44-10	44-11	44-11
450.00	49-11	50-0	50-1	50-2	50-2	50-3	50-4	50-5	50-5	50-6
475.00	55-9	55-10	55-11	56-0	56-0	56-1	56-2	56-3	56-3	56-4
500.00	61-10	61-11	62-0	62-1	62-2	62-3	62-4	62-5	62-6	62-7
525.00	68-4	68-5	68-6	68-8	68-9	68-10	68-11	69-0	69-0	69-1
550.00	75-2	75-3	75-5	75-6	75-7	75-8	75-9	75-10	75-11	76-0
575.00	82-4	82-5	82-7	82-8	82-10	82-11	83-0	83-1	83-2	83-3
600.00	89-10	90-0	90-1	90-3	90-4	90-6	90-7	90-8	90-9	90-10
625.00	97-9	97-11	98-0	98-2	98-3	98-5	98-7	98-8	98-9	98-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	15-3	15-3	15-4	15-4	15-4	15-4	15-4	15-5	15-5	15-5
275.00	18-6	18-6	18-6	18-7	18-7	18-7	18-7	18-8	18-8	18-8
300.00	22-0	22-1	22-1	22-1	22-2	22-2	22-2	22-2	22-3	22-3
325.00	25-11	25-11	25-11	26-0	26-0	26-0	26-1	26-1	26-1	26-1
350.00	30-1	30-1	30-2	30-2	30-2	30-3	30-3	30-3	30-4	30-4
375.00	34-7	34-7	34-8	34-8	34-9	34-9	34-9	34-10	34-10	34-11
400.00	39-4	39-5	39-6	39-6	39-7	39-7	39-8	39-8	39-9	39-9
425.00	44-6	44-7	44-8	44-8	44-9	44-9	44-10	44-10	44-11	44-11
450.00	50-0	50-1	50-2	50-2	50-3	50-3	50-4	50-5	50-5	50-6
475.00	55-10	55-11	56-0	56-0	56-1	56-2	56-2	56-3	56-3	56-4
500.00	61-11	62-1	62-2	62-2	62-3	62-4	62-5	62-5	62-6	62-7
525.00	68-5	68-6	68-8	68-9	68-9	68-10	68-11	69-0	69-0	69-1
550.00	75-3	75-5	75-6	75-7	75-8	75-9	75-9	75-10	75-11	76-0
575.00	82-6	82-7	82-8	82-9	82-10	82-11	83-0	83-1	83-2	83-3
600.00	90-0	90-1	90-3	90-4	90-5	90-6	90-7	90-8	90-9	90-10
625.00	97-11	98-0	98-2	98-3	98-4	98-6	98-7	98-8	98-9	98-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.103

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.748	1.88	2500	1.88	2500*
0.0	0.00	0.00	0.00	0.440	1.12	492	0.95	582
30.0	0.00	0.00	0.00	0.440	1.52	362	1.36	406
40.0	0.00	0.00	0.00	0.440	1.64	336	1.48	372
50.0	0.00	0.00	0.00	0.440	1.74	316	1.59	345
60.0	0.00	0.00	0.00	0.440	1.81	305	1.70	323
70.0	0.00	0.00	0.00	0.440	1.87	294	1.81	304
80.0	0.00	0.00	0.00	0.440	1.93	285	1.91	288
90.0	0.00	0.00	0.00	0.440	2.00	275	2.00	275
100.0	0.00	0.00	0.00	0.440	2.06	267	2.06	267
110.0	0.00	0.00	0.00	0.440	2.12	260	2.12	260
120.0	0.00	0.00	0.00	0.440	2.18	253	2.18	253
130.0	0.00	0.00	0.00	0.440	2.24	246	2.24	246
167.0	0.00	0.00	0.00	0.440	2.44	226	2.44	226
212.0	0.00	0.00	0.00	0.440	2.66	207	2.66	207

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.748	7.54	2500	7.54	2500*
0.0	0.00	0.00	0.00	0.440	6.85	323	6.67	331
30.0	0.00	0.00	0.00	0.440	7.19	307	7.04	314
40.0	0.00	0.00	0.00	0.440	7.30	303	7.15	309
50.0	0.00	0.00	0.00	0.440	7.39	299	7.26	305
60.0	0.00	0.00	0.00	0.440	7.46	296	7.37	300
70.0	0.00	0.00	0.00	0.440	7.53	294	7.47	296
80.0	0.00	0.00	0.00	0.440	7.60	291	7.57	292
90.0	0.00	0.00	0.00	0.440	7.68	288	7.68	288
100.0	0.00	0.00	0.00	0.440	7.75	286	7.75	286
110.0	0.00	0.00	0.00	0.440	7.81	283	7.81	283
120.0	0.00	0.00	0.00	0.440	7.88	281	7.88	281
130.0	0.00	0.00	0.00	0.440	7.95	279	7.95	279
167.0	0.00	0.00	0.00	0.440	8.19	270	8.19	270
212.0	0.00	0.00	0.00	0.440	8.48	261	8.48	261

* Design Condition

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SHEET 104 OF 359

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.104

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.748	17.09	2500	17.09	2500*
0.0	0.00	0.00	0.00	0.440	16.41	305	16.23	309
30.0	0.00	0.00	0.00	0.440	16.74	299	16.60	302
40.0	0.00	0.00	0.00	0.440	16.85	297	16.70	300
50.0	0.00	0.00	0.00	0.440	16.94	296	16.81	298
60.0	0.00	0.00	0.00	0.440	17.01	295	16.91	296
70.0	0.00	0.00	0.00	0.440	17.08	294	17.02	295
80.0	0.00	0.00	0.00	0.440	17.15	292	17.12	293
90.0	0.00	0.00	0.00	0.440	17.22	291	17.22	291
100.0	0.00	0.00	0.00	0.440	17.30	290	17.30	290
110.0	0.00	0.00	0.00	0.440	17.37	289	17.37	289
120.0	0.00	0.00	0.00	0.440	17.44	288	17.44	288
130.0	0.00	0.00	0.00	0.440	17.51	287	17.51	287
167.0	0.00	0.00	0.00	0.440	17.76	283	17.76	283
212.0	0.00	0.00	0.00	0.440	18.07	278	18.07	278

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.748	30.69	2500	30.69	2500*
0.0	0.00	0.00	0.00	0.440	30.02	300	29.84	301
30.0	0.00	0.00	0.00	0.440	30.35	297	30.20	298
40.0	0.00	0.00	0.00	0.440	30.46	296	30.31	297
50.0	0.00	0.00	0.00	0.440	30.54	295	30.41	296
60.0	0.00	0.00	0.00	0.440	30.62	294	30.52	295
70.0	0.00	0.00	0.00	0.440	30.69	294	30.62	294
80.0	0.00	0.00	0.00	0.440	30.76	293	30.73	293
90.0	0.00	0.00	0.00	0.440	30.83	292	30.83	292
100.0	0.00	0.00	0.00	0.440	30.91	292	30.91	292
110.0	0.00	0.00	0.00	0.440	30.98	291	30.98	291
120.0	0.00	0.00	0.00	0.440	31.05	290	31.05	290
130.0	0.00	0.00	0.00	0.440	31.12	290	31.12	290
167.0	0.00	0.00	0.00	0.440	31.38	287	31.38	287
212.0	0.00	0.00	0.00	0.440	31.69	285	31.69	285

* Design Condition

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SHEET 105 OF 359

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.105

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.748	48.63	2500	48.63	2500*
0.0	0.00	0.00	0.00	0.440	47.96	297	47.79	298
30.0	0.00	0.00	0.00	0.440	48.29	295	48.14	296
40.0	0.00	0.00	0.00	0.440	48.40	295	48.25	296
50.0	0.00	0.00	0.00	0.440	48.48	294	48.35	295
60.0	0.00	0.00	0.00	0.440	48.55	294	48.46	294
70.0	0.00	0.00	0.00	0.440	48.63	294	48.56	294
80.0	0.00	0.00	0.00	0.440	48.70	293	48.67	293
90.0	0.00	0.00	0.00	0.440	48.77	293	48.77	293
100.0	0.00	0.00	0.00	0.440	48.84	292	48.84	292
110.0	0.00	0.00	0.00	0.440	48.92	292	48.92	292
120.0	0.00	0.00	0.00	0.440	48.99	291	48.99	291
130.0	0.00	0.00	0.00	0.440	49.06	291	49.06	291
167.0	0.00	0.00	0.00	0.440	49.32	290	49.32	290
212.0	0.00	0.00	0.00	0.440	49.64	288	49.64	288

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.106

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-2
100.00	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-1
125.00	1-11	2-1	2-4	2-6	2-8	2-10	3-0	3-2	3-3	3-4
150.00	2-9	3-1	3-4	3-7	3-10	4-1	4-4	4-6	4-8	4-9
175.00	3-9	4-2	4-6	4-11	5-3	5-7	5-10	6-2	6-4	6-6
200.00	4-11	5-5	5-11	6-5	6-10	7-3	7-8	8-0	8-3	8-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-2
100.00	1-5	1-6	1-8	1-9	1-10	1-10	1-11	2-0	2-1	2-1
125.00	2-2	2-5	2-7	2-9	2-10	2-11	3-0	3-2	3-3	3-4
150.00	3-2	3-5	3-8	3-11	4-1	4-3	4-4	4-6	4-8	4-9
175.00	4-3	4-8	5-0	5-4	5-6	5-9	5-11	6-2	6-4	6-6
200.00	5-7	6-1	6-7	7-0	7-3	7-6	7-9	8-0	8-3	8-6

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SHEET 107 OF 359

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.107

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11	1-11	1-11
125.00	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-1
150.00	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-4	4-4	4-5
175.00	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-10	5-11	6-0
200.00	6-11	7-1	7-2	7-3	7-4	7-6	7-7	7-8	7-9	7-10
225.00	8-9	8-11	9-1	9-2	9-4	9-6	9-7	9-9	9-10	9-11
250.00	10-10	11-0	11-2	11-4	11-6	11-8	11-10	12-0	12-1	12-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-10	1-10	1-10	1-10	1-11	1-11	1-11	1-11	1-11
125.00	2-9	2-10	2-10	2-11	2-11	2-11	3-0	3-0	3-0	3-1
150.00	4-0	4-1	4-1	4-2	4-2	4-3	4-3	4-4	4-4	4-5
175.00	5-5	5-6	5-7	5-8	5-9	5-9	5-10	5-10	5-11	6-0
200.00	7-1	7-2	7-4	7-5	7-6	7-6	7-7	7-8	7-9	7-10
225.00	9-0	9-1	9-3	9-4	9-5	9-6	9-8	9-9	9-10	9-11
250.00	11-1	11-3	11-5	11-7	11-8	11-9	11-11	12-0	12-1	12-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.108

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-1	4-2	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-4
175.00	5-7	5-8	5-8	5-8	5-9	5-9	5-10	5-10	5-10	5-11
200.00	7-4	7-4	7-5	7-5	7-6	7-7	7-7	7-8	7-8	7-8
225.00	9-3	9-4	9-5	9-5	9-6	9-7	9-7	9-8	9-9	9-9
250.00	11-5	11-6	11-7	11-8	11-9	11-10	11-10	11-11	12-0	12-1
275.00	13-10	13-11	14-0	14-1	14-2	14-3	14-5	14-6	14-6	14-7
300.00	16-6	16-7	16-8	16-10	16-11	17-0	17-1	17-3	17-4	17-4
325.00	19-4	19-6	19-7	19-9	19-10	20-0	20-1	20-3	20-4	20-5
350.00	22-6	22-7	22-9	22-11	23-1	23-2	23-4	23-6	23-7	23-8
375.00	25-10	26-0	26-2	26-4	26-6	26-8	26-10	27-0	27-1	27-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-2	4-2	4-2	4-3	4-3	4-3	4-3	4-4	4-4	4-4
175.00	5-8	5-8	5-9	5-9	5-9	5-10	5-10	5-10	5-10	5-11
200.00	7-5	7-5	7-6	7-6	7-6	7-7	7-7	7-8	7-8	7-8
225.00	9-4	9-5	9-6	9-6	9-7	9-7	9-8	9-8	9-9	9-9
250.00	11-6	11-7	11-8	11-9	11-10	11-10	11-11	11-11	12-0	12-1
275.00	14-0	14-1	14-2	14-3	14-3	14-4	14-5	14-6	14-6	14-7
300.00	16-8	16-9	16-10	16-11	17-0	17-1	17-2	17-3	17-4	17-4
325.00	19-6	19-8	19-9	19-11	20-0	20-1	20-2	20-3	20-4	20-5
350.00	22-8	22-10	23-0	23-1	23-2	23-3	23-5	23-6	23-7	23-8
375.00	26-1	26-3	26-5	26-6	26-8	26-9	26-10	27-0	27-1	27-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.109

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-6	7-6	7-6	7-7	7-7	7-7	7-8	7-8	7-8	7-8
225.00	9-6	9-6	9-6	9-7	9-7	9-8	9-8	9-8	9-9	9-9
250.00	11-8	11-9	11-9	11-10	11-10	11-11	11-11	12-0	12-0	12-1
275.00	14-2	14-3	14-3	14-4	14-4	14-5	14-6	14-6	14-7	14-7
300.00	16-11	16-11	17-0	17-1	17-1	17-2	17-3	17-3	17-4	17-4
325.00	19-10	19-11	19-11	20-0	20-1	20-2	20-3	20-4	20-4	20-5
350.00	23-0	23-1	23-2	23-3	23-4	23-5	23-6	23-7	23-7	23-8
375.00	26-5	26-6	26-7	26-8	26-10	26-11	27-0	27-1	27-2	27-2
400.00	30-1	30-2	30-4	30-5	30-6	30-7	30-9	30-10	30-11	31-0
425.00	34-0	34-2	34-3	34-4	34-6	34-7	34-9	34-10	34-11	35-0
450.00	38-2	38-4	38-5	38-7	38-8	38-10	39-0	39-1	39-2	39-3
475.00	42-7	42-9	42-10	43-0	43-2	43-4	43-6	43-7	43-9	43-10
500.00	47-3	47-5	47-7	47-9	47-11	48-1	48-3	48-5	48-6	48-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-6	7-7	7-7	7-7	7-7	7-8	7-8	7-8	7-8	7-8
225.00	9-6	9-7	9-7	9-7	9-8	9-8	9-8	9-8	9-9	9-9
250.00	11-9	11-10	11-10	11-11	11-11	11-11	12-0	12-0	12-0	12-1
275.00	14-3	14-3	14-4	14-5	14-5	14-5	14-6	14-6	14-7	14-7
300.00	16-11	17-0	17-1	17-1	17-2	17-2	17-3	17-3	17-4	17-4
325.00	19-11	20-0	20-1	20-1	20-2	20-2	20-3	20-4	20-4	20-5
350.00	23-1	23-2	23-3	23-4	23-5	23-5	23-6	23-7	23-7	23-8
375.00	26-7	26-8	26-9	26-10	26-11	26-11	27-0	27-1	27-2	27-2
400.00	30-3	30-4	30-6	30-7	30-7	30-8	30-9	30-10	30-11	31-0
425.00	34-2	34-4	34-5	34-6	34-7	34-8	34-9	34-10	34-11	35-0
450.00	38-4	38-6	38-8	38-9	38-10	38-11	39-0	39-1	39-2	39-3
475.00	42-9	42-11	43-1	43-2	43-4	43-5	43-6	43-7	43-9	43-10
500.00	47-5	47-7	47-10	47-11	48-1	48-2	48-3	48-5	48-6	48-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.110

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-11	11-11	11-11	12-0	12-0	12-0	12-1	12-1	12-1	12-1
275.00	14-5	14-5	14-6	14-6	14-6	14-7	14-7	14-8	14-8	14-8
300.00	17-2	17-2	17-3	17-3	17-4	17-4	17-5	17-5	17-5	17-6
325.00	20-2	20-2	20-3	20-3	20-4	20-4	20-5	20-6	20-6	20-6
350.00	23-5	23-5	23-6	23-7	23-7	23-8	23-8	23-9	23-9	23-10
375.00	26-11	26-11	27-0	27-1	27-1	27-2	27-3	27-3	27-4	27-4
400.00	30-7	30-8	30-9	30-10	30-11	30-11	31-0	31-1	31-1	31-2
425.00	34-7	34-8	34-9	34-10	34-11	35-0	35-0	35-1	35-2	35-3
450.00	38-10	38-11	39-0	39-1	39-2	39-3	39-4	39-5	39-6	39-6
475.00	43-4	43-5	43-6	43-7	43-8	43-9	43-10	44-0	44-0	44-1
500.00	48-0	48-2	48-3	48-4	48-5	48-7	48-8	48-9	48-10	48-11
525.00	53-0	53-2	53-3	53-5	53-6	53-7	53-9	53-10	53-11	54-0
550.00	58-3	58-5	58-6	58-8	58-9	58-11	59-0	59-2	59-3	59-4
575.00	63-9	63-11	64-1	64-2	64-4	64-6	64-7	64-9	64-10	64-11
600.00	69-7	69-8	69-10	70-0	70-2	70-4	70-6	70-7	70-9	70-10
625.00	75-7	75-9	75-11	76-1	76-3	76-5	76-7	76-9	76-10	77-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-11	12-0	12-0	12-0	12-0	12-1	12-1	12-1	12-1	12-1
275.00	14-5	14-6	14-6	14-6	14-7	14-7	14-7	14-8	14-8	14-8
300.00	17-3	17-3	17-3	17-4	17-4	17-4	17-5	17-5	17-5	17-6
325.00	20-3	20-3	20-4	20-4	20-4	20-5	20-5	20-6	20-6	20-6
350.00	23-6	23-6	23-7	23-7	23-8	23-8	23-9	23-9	23-9	23-10
375.00	27-0	27-0	27-1	27-2	27-2	27-2	27-3	27-3	27-4	27-4
400.00	30-8	30-9	30-10	30-11	30-11	31-0	31-0	31-1	31-1	31-2
425.00	34-8	34-9	34-10	34-11	35-0	35-0	35-1	35-1	35-2	35-3
450.00	38-11	39-0	39-1	39-2	39-3	39-4	39-4	39-5	39-6	39-6
475.00	43-5	43-6	43-8	43-8	43-9	43-10	43-11	44-0	44-0	44-1
500.00	48-2	48-3	48-5	48-6	48-7	48-8	48-8	48-9	48-10	48-11
525.00	53-2	53-4	53-5	53-6	53-7	53-8	53-9	53-10	53-11	54-0
550.00	58-5	58-7	58-9	58-10	58-11	59-0	59-1	59-2	59-3	59-4
575.00	64-0	64-1	64-3	64-4	64-6	64-7	64-8	64-9	64-10	64-11
600.00	69-9	69-11	70-1	70-2	70-4	70-5	70-6	70-7	70-9	70-10
625.00	75-10	76-0	76-2	76-3	76-5	76-6	76-7	76-9	76-10	77-0

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SHEET 111 OF 359

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.111

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.748	1.56	3000	1.56	3000*
0.0	0.00	0.00	0.00	0.440	0.51	1072	0.40	1388
30.0	0.00	0.00	0.00	0.440	0.96	576	0.71	775
40.0	0.00	0.00	0.00	0.440	1.11	497	0.85	645
50.0	0.00	0.00	0.00	0.440	1.25	440	1.00	551
60.0	0.00	0.00	0.00	0.440	1.34	412	1.14	483
70.0	0.00	0.00	0.00	0.440	1.41	390	1.28	432
80.0	0.00	0.00	0.00	0.440	1.48	371	1.40	392
90.0	0.00	0.00	0.00	0.440	1.55	354	1.52	361
100.0	0.00	0.00	0.00	0.440	1.63	338	1.63	338
110.0	0.00	0.00	0.00	0.440	1.70	324	1.70	324
120.0	0.00	0.00	0.00	0.440	1.77	312	1.77	312
130.0	0.00	0.00	0.00	0.440	1.83	301	1.83	301
167.0	0.00	0.00	0.00	0.440	2.06	267	2.06	267
212.0	0.00	0.00	0.00	0.440	2.32	238	2.32	238

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.748	6.27	3000	6.27	3000*
0.0	0.00	0.00	0.00	0.440	5.26	420	5.00	441
30.0	0.00	0.00	0.00	0.440	5.69	388	5.44	405
40.0	0.00	0.00	0.00	0.440	5.82	379	5.58	395
50.0	0.00	0.00	0.00	0.440	5.93	373	5.72	386
60.0	0.00	0.00	0.00	0.440	6.01	367	5.85	377
70.0	0.00	0.00	0.00	0.440	6.10	362	5.98	369
80.0	0.00	0.00	0.00	0.440	6.18	357	6.11	362
90.0	0.00	0.00	0.00	0.440	6.26	353	6.23	355
100.0	0.00	0.00	0.00	0.440	6.35	348	6.35	348
110.0	0.00	0.00	0.00	0.440	6.43	344	6.43	344
120.0	0.00	0.00	0.00	0.440	6.51	339	6.51	339
130.0	0.00	0.00	0.00	0.440	6.59	335	6.59	335
167.0	0.00	0.00	0.00	0.440	6.87	322	6.87	322
212.0	0.00	0.00	0.00	0.440	7.21	307	7.21	307

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 112 OF 359

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.112

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.748	14.18	3000	14.18	3000*
0.0	0.00	0.00	0.00	0.440	13.20	378	12.95	385
30.0	0.00	0.00	0.00	0.440	13.60	367	13.37	373
40.0	0.00	0.00	0.00	0.440	13.74	363	13.50	370
50.0	0.00	0.00	0.00	0.440	13.83	361	13.63	366
60.0	0.00	0.00	0.00	0.440	13.92	359	13.76	363
70.0	0.00	0.00	0.00	0.440	14.00	357	13.89	359
80.0	0.00	0.00	0.00	0.440	14.09	354	14.01	356
90.0	0.00	0.00	0.00	0.440	14.17	352	14.14	353
100.0	0.00	0.00	0.00	0.440	14.26	350	14.26	350
110.0	0.00	0.00	0.00	0.440	14.34	348	14.34	348
120.0	0.00	0.00	0.00	0.440	14.43	346	14.43	346
130.0	0.00	0.00	0.00	0.440	14.51	344	14.51	344
167.0	0.00	0.00	0.00	0.440	14.81	337	14.81	337
212.0	0.00	0.00	0.00	0.440	15.17	330	15.17	330

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.748	25.39	3000	25.39	3000*
0.0	0.00	0.00	0.00	0.440	24.42	366	24.17	369
30.0	0.00	0.00	0.00	0.440	24.82	360	24.59	363
40.0	0.00	0.00	0.00	0.440	24.95	358	24.72	361
50.0	0.00	0.00	0.00	0.440	25.04	357	24.84	360
60.0	0.00	0.00	0.00	0.440	25.12	356	24.97	358
70.0	0.00	0.00	0.00	0.440	25.21	355	25.10	356
80.0	0.00	0.00	0.00	0.440	25.30	353	25.22	354
90.0	0.00	0.00	0.00	0.440	25.38	352	25.35	353
100.0	0.00	0.00	0.00	0.440	25.47	351	25.47	351
110.0	0.00	0.00	0.00	0.440	25.56	350	25.56	350
120.0	0.00	0.00	0.00	0.440	25.64	349	25.64	349
130.0	0.00	0.00	0.00	0.440	25.73	348	25.73	348
167.0	0.00	0.00	0.00	0.440	26.03	344	26.03	344
212.0	0.00	0.00	0.00	0.440	26.41	339	26.41	339

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.113

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.748	40.05	3000	40.05	3000*
0.0	0.00	0.00	0.00	0.440	39.08	360	38.84	363
30.0	0.00	0.00	0.00	0.440	39.48	357	39.25	359
40.0	0.00	0.00	0.00	0.440	39.61	356	39.38	358
50.0	0.00	0.00	0.00	0.440	39.69	355	39.50	357
60.0	0.00	0.00	0.00	0.440	39.78	354	39.63	356
70.0	0.00	0.00	0.00	0.440	39.87	354	39.75	355
80.0	0.00	0.00	0.00	0.440	39.95	353	39.88	354
90.0	0.00	0.00	0.00	0.440	40.04	352	40.01	353
100.0	0.00	0.00	0.00	0.440	40.13	351	40.13	351
110.0	0.00	0.00	0.00	0.440	40.21	351	40.21	351
120.0	0.00	0.00	0.00	0.440	40.30	350	40.30	350
130.0	0.00	0.00	0.00	0.440	40.38	349	40.38	349
167.0	0.00	0.00	0.00	0.440	40.70	347	40.70	347
212.0	0.00	0.00	0.00	0.440	41.07	344	41.07	344

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-9	0-10	0-11	0-11
100.00	0-7	0-9	0-10	1-0	1-2	1-3	1-5	1-6	1-8	1-8
125.00	0-11	1-1	1-4	1-7	1-9	2-0	2-2	2-5	2-7	2-8
150.00	1-4	1-7	1-11	2-3	2-7	2-10	3-2	3-5	3-8	3-10
175.00	1-9	2-2	2-7	3-1	3-6	3-11	4-4	4-8	5-0	5-2
200.00	2-4	2-10	3-5	4-0	4-7	5-1	5-7	6-1	6-6	6-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-10	0-11	0-11
100.00	0-10	0-11	1-1	1-3	1-4	1-5	1-6	1-7	1-8	1-8
125.00	1-3	1-6	1-9	1-11	2-1	2-2	2-4	2-5	2-7	2-8
150.00	1-10	2-2	2-6	2-10	3-0	3-2	3-4	3-6	3-8	3-10
175.00	2-5	2-11	3-5	3-10	4-1	4-4	4-7	4-9	5-0	5-2
200.00	3-2	3-10	4-5	5-0	5-4	5-8	5-11	6-3	6-6	6-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.115

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-7
125.00	2-1	2-2	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-6
150.00	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-7	3-7
175.00	4-1	4-2	4-3	4-5	4-6	4-7	4-8	4-9	4-10	4-11
200.00	5-4	5-5	5-7	5-9	5-10	6-0	6-1	6-3	6-4	6-5
225.00	6-9	6-11	7-1	7-3	7-5	7-7	7-9	7-11	8-0	8-2
250.00	8-3	8-6	8-9	8-11	9-2	9-4	9-7	9-9	9-11	10-1

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-7	1-7
125.00	2-2	2-3	2-3	2-4	2-4	2-5	2-5	2-5	2-6	2-6
150.00	3-1	3-2	3-3	3-4	3-5	3-5	3-6	3-6	3-7	3-7
175.00	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-10	4-11
200.00	5-7	5-8	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5
225.00	7-0	7-2	7-4	7-6	7-7	7-9	7-10	7-11	8-0	8-2
250.00	8-8	8-11	9-1	9-3	9-5	9-6	9-8	9-9	9-11	10-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.116

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-4	3-4	3-5	3-5	3-6	3-6	3-6	3-7	3-7
175.00	4-6	4-7	4-7	4-8	4-8	4-9	4-9	4-10	4-10	4-10
200.00	5-11	5-11	6-0	6-1	6-1	6-2	6-3	6-3	6-4	6-4
225.00	7-5	7-6	7-7	7-8	7-9	7-10	7-10	7-11	8-0	8-1
250.00	9-2	9-3	9-4	9-6	9-7	9-8	9-9	9-10	9-11	9-11
275.00	11-1	11-3	11-4	11-5	11-7	11-8	11-9	11-11	12-0	12-1
300.00	13-3	13-4	13-6	13-8	13-9	13-11	14-0	14-2	14-3	14-4
325.00	15-7	15-8	15-10	16-0	16-2	16-4	16-5	16-7	16-9	16-10
350.00	18-0	18-3	18-5	18-7	18-9	18-11	19-1	19-3	19-5	19-7
375.00	20-9	20-11	21-2	21-4	21-6	21-9	21-11	22-2	22-4	22-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-5	3-5	3-5	3-6	3-6	3-6	3-6	3-7	3-7
175.00	4-7	4-7	4-8	4-8	4-9	4-9	4-9	4-10	4-10	4-10
200.00	6-0	6-0	6-1	6-2	6-2	6-3	6-3	6-3	6-4	6-4
225.00	7-7	7-8	7-9	7-9	7-10	7-10	7-11	8-0	8-0	8-1
250.00	9-4	9-5	9-6	9-7	9-8	9-9	9-9	9-10	9-11	9-11
275.00	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1
300.00	13-6	13-7	13-9	13-10	13-11	14-0	14-1	14-2	14-3	14-4
325.00	15-10	16-0	16-2	16-3	16-4	16-5	16-6	16-8	16-9	16-10
350.00	18-4	18-6	18-9	18-10	19-0	19-1	19-2	19-4	19-5	19-7
375.00	21-1	21-3	21-6	21-8	21-9	21-11	22-1	22-2	22-4	22-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.117

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-1	6-1	6-2	6-2	6-3	6-3	6-3	6-4	6-4	6-4
225.00	7-9	7-9	7-10	7-10	7-10	7-11	7-11	8-0	8-0	8-1
250.00	9-6	9-7	9-8	9-8	9-9	9-9	9-10	9-10	9-11	9-11
275.00	11-6	11-7	11-8	11-9	11-9	11-10	11-11	11-11	12-0	12-1
300.00	13-9	13-10	13-10	13-11	14-0	14-1	14-2	14-3	14-4	14-4
325.00	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-10
350.00	18-8	18-10	18-11	19-0	19-1	19-2	19-3	19-5	19-6	19-7
375.00	21-6	21-7	21-9	21-10	21-11	22-1	22-2	22-3	22-4	22-5
400.00	24-6	24-7	24-9	24-10	25-0	25-1	25-3	25-4	25-6	25-7
425.00	27-8	27-9	27-11	28-1	28-3	28-4	28-6	28-8	28-9	28-10
450.00	31-0	31-2	31-4	31-6	31-8	31-10	32-0	32-2	32-3	32-5
475.00	34-7	34-9	34-11	35-1	35-3	35-6	35-8	35-10	36-0	36-1
500.00	38-4	38-6	38-9	38-11	39-2	39-4	39-6	39-9	39-11	40-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-2	6-2	6-3	6-3	6-3	6-3	6-4	6-4	6-4	6-4
225.00	7-9	7-10	7-10	7-11	7-11	7-11	8-0	8-0	8-0	8-1
250.00	9-7	9-8	9-9	9-9	9-9	9-10	9-10	9-11	9-11	9-11
275.00	11-8	11-8	11-9	11-10	11-10	11-11	11-11	12-0	12-0	12-1
300.00	13-10	13-11	14-0	14-1	14-1	14-2	14-2	14-3	14-4	14-4
325.00	16-3	16-4	16-5	16-6	16-7	16-7	16-8	16-9	16-9	16-10
350.00	18-11	19-0	19-1	19-2	19-3	19-3	19-4	19-5	19-6	19-7
375.00	21-8	21-10	21-11	22-0	22-1	22-2	22-3	22-4	22-4	22-5
400.00	24-8	24-10	24-11	25-0	25-1	25-3	25-4	25-5	25-6	25-7
425.00	27-11	28-0	28-2	28-3	28-5	28-6	28-7	28-8	28-9	28-10
450.00	31-3	31-5	31-7	31-9	31-10	31-11	32-1	32-2	32-3	32-5
475.00	34-11	35-1	35-3	35-5	35-6	35-8	35-9	35-10	36-0	36-1
500.00	38-8	38-11	39-1	39-3	39-4	39-6	39-8	39-9	39-11	40-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.118

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-9	9-9	9-9	9-10	9-10	9-11	9-11	9-11	10-0	10-0
275.00	11-9	11-10	11-10	11-11	11-11	11-11	12-0	12-0	12-1	12-1
300.00	14-0	14-1	14-1	14-2	14-2	14-3	14-3	14-4	14-4	14-5
325.00	16-5	16-6	16-7	16-7	16-8	16-9	16-9	16-10	16-10	16-11
350.00	19-1	19-2	19-3	19-3	19-4	19-5	19-6	19-6	19-7	19-7
375.00	21-11	22-0	22-1	22-2	22-3	22-3	22-4	22-5	22-6	22-6
400.00	25-0	25-1	25-2	25-2	25-3	25-4	25-5	25-6	25-7	25-8
425.00	28-2	28-4	28-5	28-6	28-7	28-8	28-9	28-10	28-11	29-0
450.00	31-8	31-9	31-10	31-11	32-1	32-2	32-3	32-4	32-5	32-6
475.00	35-3	35-5	35-6	35-7	35-9	35-10	36-0	36-1	36-2	36-3
500.00	39-1	39-3	39-5	39-6	39-8	39-9	39-11	40-0	40-2	40-3
525.00	43-2	43-4	43-5	43-7	43-9	43-10	44-0	44-2	44-3	44-4
550.00	47-5	47-7	47-9	47-11	48-0	48-2	48-4	48-6	48-8	48-9
575.00	51-10	52-1	52-3	52-5	52-7	52-9	52-11	53-1	53-3	53-4
600.00	56-6	56-9	56-11	57-1	57-3	57-5	57-8	57-10	58-0	58-1
625.00	61-5	61-7	61-10	62-0	62-2	62-5	62-7	62-10	63-0	63-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-9	9-10	9-10	9-10	9-11	9-11	9-11	9-11	10-0	10-0
275.00	11-10	11-10	11-11	11-11	12-0	12-0	12-0	12-0	12-1	12-1
300.00	14-1	14-2	14-2	14-3	14-3	14-3	14-4	14-4	14-4	14-5
325.00	16-7	16-7	16-8	16-8	16-9	16-9	16-10	16-10	16-10	16-11
350.00	19-2	19-3	19-4	19-4	19-5	19-5	19-6	19-6	19-7	19-7
375.00	22-1	22-2	22-2	22-3	22-4	22-4	22-5	22-5	22-6	22-6
400.00	25-1	25-2	25-3	25-4	25-5	25-5	25-6	25-7	25-7	25-8
425.00	28-4	28-5	28-7	28-7	28-8	28-9	28-10	28-10	28-11	29-0
450.00	31-10	31-11	32-0	32-1	32-2	32-3	32-4	32-5	32-5	32-6
475.00	35-6	35-7	35-9	35-10	35-10	35-11	36-0	36-1	36-2	36-3
500.00	39-4	39-6	39-7	39-8	39-9	39-10	39-11	40-0	40-2	40-3
525.00	43-5	43-7	43-8	43-10	43-11	44-0	44-1	44-2	44-3	44-4
550.00	47-8	47-10	48-0	48-1	48-3	48-4	48-5	48-6	48-8	48-9
575.00	52-2	52-4	52-6	52-8	52-9	52-10	53-0	53-1	53-3	53-4
600.00	56-10	57-1	57-3	57-4	57-6	57-7	57-9	57-10	58-0	58-1
625.00	61-9	62-0	62-2	62-4	62-5	62-7	62-9	62-10	63-0	63-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.119

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	1.04	942	0.98	1000*
20	0	0	0	0.44	0.45	1232	0.43	1292
30	0	0	0	0.44	0.56	978	0.52	1065
40	0	0	0	0.44	0.7	781	0.63	870
50	0	0	0	0.44	0.86	640	0.77	716
60	0	0	0	0.44	1.02	542	0.91	603
70	0	0	0	0.44	1.16	472	1.06	520
80	0	0	0	0.44	1.31	422	1.2	459
90	0	0	0	0.44	1.39	396	1.33	414
100	0	0	0	0.44	1.46	377	1.46	378
110	0	0	0	0.44	1.54	358	1.54	358
120	0	0	0	0.44	1.61	342	1.61	342
130	0	0	0	0.44	1.68	328	1.68	328
167	0	0	0	0.44	1.92	287	1.92	287
212	0	0	0	0.44	2.19	252	2.19	252

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	4.01	978	3.92	1000*
20	0	0	0	0.44	3.16	698	3.04	724
30	0	0	0	0.44	3.37	653	3.25	677
40	0	0	0	0.44	3.58	615	3.45	638
50	0	0	0	0.44	3.78	583	3.65	604
60	0	0	0	0.44	3.97	555	3.84	574
70	0	0	0	0.44	4.16	530	4.02	548
80	0	0	0	0.44	4.34	508	4.2	525
90	0	0	0	0.44	4.51	489	4.37	505
100	0	0	0	0.44	4.62	477	4.54	486
110	0	0	0	0.44	4.72	467	4.7	469
120	0	0	0	0.44	4.83	457	4.83	457
130	0	0	0	0.44	4.93	448	4.93	448
167	0	0	0	0.44	5.28	418	5.28	418
212	0	0	0	0.44	5.69	388	5.69	388

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.120

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	8.94	989	8.84	1000*
20	0	0	0	0.44	8.07	615	7.95	624
30	0	0	0	0.44	8.28	599	8.16	609
40	0	0	0	0.44	8.49	585	8.36	594
50	0	0	0	0.44	8.7	571	8.56	580
60	0	0	0	0.44	8.9	558	8.75	567
70	0	0	0	0.44	9.09	546	8.95	555
80	0	0	0	0.44	9.28	535	9.13	544
90	0	0	0	0.44	9.47	525	9.32	533
100	0	0	0	0.44	9.63	516	9.5	523
110	0	0	0	0.44	9.75	510	9.68	513
120	0	0	0	0.44	9.86	504	9.86	504
130	0	0	0	0.44	9.98	498	9.98	498
167	0	0	0	0.44	10.4	478	10.4	478
212	0	0	0	0.44	10.89	457	10.89	457

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	15.86	994	15.76	1000*
20	0	0	0	0.44	14.99	590	14.87	595
30	0	0	0	0.44	15.2	582	15.08	587
40	0	0	0	0.44	15.41	574	15.28	579
50	0	0	0	0.44	15.62	567	15.48	572
60	0	0	0	0.44	15.82	560	15.67	565
70	0	0	0	0.44	16.02	553	15.87	558
80	0	0	0	0.44	16.22	546	16.06	551
90	0	0	0	0.44	16.41	540	16.25	545
100	0	0	0	0.44	16.59	534	16.44	539
110	0	0	0	0.44	16.71	530	16.63	533
120	0	0	0	0.44	16.84	526	16.82	527
130	0	0	0	0.44	16.97	522	16.97	522
167	0	0	0	0.44	17.41	509	17.41	509
212	0	0	0	0.44	17.95	494	17.95	494

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.121

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	24.82	996	24.72	1000*
20	0	0	0	0.44	23.95	579	23.83	582
30	0	0	0	0.44	24.16	575	24.03	578
40	0	0	0	0.44	24.36	570	24.23	573
50	0	0	0	0.44	24.57	565	24.43	568
60	0	0	0	0.44	24.77	561	24.63	564
70	0	0	0	0.44	24.97	556	24.82	559
80	0	0	0	0.44	25.17	552	25.02	555
90	0	0	0	0.44	25.37	547	25.21	551
100	0	0	0	0.44	25.57	543	25.41	547
110	0	0	0	0.44	25.69	541	25.6	543
120	0	0	0	0.44	25.82	538	25.79	539
130	0	0	0	0.44	25.95	535	25.95	535
167	0	0	0	0.44	26.42	526	26.42	526
212	0	0	0	0.44	26.98	516	26.98	516

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10
100.00	0-5	0-6	0-8	0-9	0-11	1-1	1-2	1-4	1-5	1-6
125.00	0-8	0-10	1-0	1-2	1-5	1-8	1-10	2-1	2-3	2-5
150.00	0-11	1-2	1-5	1-9	2-1	2-5	2-8	3-0	3-3	3-6
175.00	1-4	1-7	1-11	2-4	2-10	3-3	3-8	4-1	4-6	4-9
200.00	1-8	2-1	2-6	3-1	3-8	4-3	4-10	5-4	5-10	6-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9	0-10	0-10
100.00	0-5	0-7	0-8	0-10	1-0	1-2	1-4	1-5	1-6	1-6
125.00	0-8	0-11	1-1	1-4	1-7	1-10	2-0	2-2	2-3	2-5
150.00	1-0	1-3	1-7	1-11	2-3	2-7	2-11	3-1	3-3	3-6
175.00	1-4	1-9	2-2	2-8	3-1	3-7	4-0	4-3	4-6	4-9
200.00	1-9	2-3	2-10	3-5	4-1	4-8	5-3	5-7	5-10	6-2

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SHEET 123 OF 359

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.123

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2
125.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10
150.00	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5	2-7	2-8
175.00	2-4	2-6	2-8	2-10	2-11	3-1	3-3	3-4	3-6	3-7
200.00	3-1	3-3	3-5	3-8	3-10	4-0	4-2	4-4	4-6	4-8
225.00	3-10	4-1	4-4	4-7	4-10	5-1	5-4	5-6	5-9	5-11
250.00	4-9	5-1	5-5	5-8	6-0	6-3	6-7	6-10	7-1	7-4

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-2
125.00	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-10
150.00	1-9	1-11	2-0	2-2	2-3	2-4	2-5	2-6	2-7	2-8
175.00	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-5	3-6	3-7
200.00	3-2	3-4	3-7	3-9	4-0	4-2	4-4	4-6	4-7	4-9
225.00	4-0	4-3	4-6	4-9	5-0	5-3	5-6	5-8	5-10	6-0
250.00	4-11	5-3	5-7	5-11	6-3	6-6	6-9	7-1	7-3	7-5

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STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-4	2-5
175.00	2-8	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-3
200.00	3-6	3-7	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4
225.00	4-6	4-7	4-8	4-10	4-11	5-0	5-2	5-3	5-4	5-5
250.00	5-6	5-8	5-10	5-11	6-1	6-3	6-4	6-6	6-7	6-9
275.00	6-8	6-10	7-0	7-2	7-4	7-6	7-8	7-10	8-0	8-2
300.00	7-11	8-2	8-4	8-7	8-9	8-11	9-2	9-4	9-6	9-8
325.00	9-4	9-7	9-10	10-1	10-3	10-6	10-9	10-11	11-2	11-4
350.00	10-10	11-1	11-5	11-8	11-11	12-2	12-5	12-8	12-11	13-2
375.00	12-5	12-9	13-1	13-5	13-8	14-0	14-3	14-7	14-10	15-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-4	2-5	2-5
175.00	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-3	3-3	3-4
200.00	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4
225.00	4-6	4-8	4-9	4-11	5-0	5-1	5-3	5-4	5-5	5-6
250.00	5-7	5-9	5-11	6-0	6-2	6-4	6-5	6-7	6-8	6-9
275.00	6-9	7-0	7-2	7-4	7-6	7-8	7-10	7-11	8-1	8-2
300.00	8-1	8-3	8-6	8-8	8-11	9-1	9-3	9-6	9-8	9-9
325.00	9-6	9-9	10-0	10-3	10-5	10-8	10-11	11-1	11-4	11-5
350.00	11-0	11-3	11-7	11-10	12-1	12-5	12-8	12-11	13-1	13-3
375.00	12-7	12-11	13-3	13-7	13-11	14-3	14-6	14-10	15-1	15-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.125

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-9	3-9	3-10	3-10	3-11	4-0	4-0	4-1	4-1	4-2
225.00	4-8	4-9	4-10	4-11	4-11	5-0	5-1	5-2	5-2	5-3
250.00	5-10	5-11	6-0	6-0	6-1	6-2	6-3	6-4	6-5	6-6
275.00	7-0	7-1	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10
300.00	8-4	8-6	8-7	8-8	8-10	8-11	9-0	9-2	9-3	9-4
325.00	9-10	9-11	10-1	10-3	10-4	10-6	10-7	10-9	10-10	11-0
350.00	11-5	11-6	11-8	11-10	12-0	12-2	12-3	12-5	12-7	12-9
375.00	13-1	13-3	13-5	13-7	13-9	13-11	14-1	14-3	14-5	14-7
400.00	14-10	15-1	15-3	15-6	15-8	15-10	16-1	16-3	16-5	16-8
425.00	16-10	17-0	17-3	17-6	17-8	17-11	18-2	18-4	18-7	18-9
450.00	18-10	19-1	19-4	19-7	19-10	20-1	20-4	20-7	20-10	21-1
475.00	21-0	21-3	21-7	21-10	22-1	22-5	22-8	22-11	23-2	23-6
500.00	23-3	23-7	23-11	24-3	24-6	24-10	25-2	25-5	25-9	26-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-9	3-10	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-2
225.00	4-9	4-10	4-10	4-11	5-0	5-1	5-1	5-2	5-3	5-3
250.00	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-6
275.00	7-1	7-2	7-3	7-4	7-6	7-7	7-8	7-9	7-10	7-11
300.00	8-5	8-7	8-8	8-9	8-11	9-0	9-1	9-3	9-4	9-5
325.00	9-11	10-0	10-2	10-4	10-5	10-7	10-8	10-10	10-11	11-0
350.00	11-6	11-8	11-10	11-11	12-1	12-3	12-5	12-7	12-8	12-9
375.00	13-2	13-4	13-6	13-9	13-11	14-1	14-3	14-5	14-7	14-8
400.00	15-0	15-2	15-5	15-7	15-10	16-0	16-3	16-5	16-7	16-9
425.00	16-11	17-2	17-5	17-8	17-10	18-1	18-4	18-6	18-9	18-10
450.00	19-0	19-3	19-6	19-9	20-0	20-3	20-6	20-9	21-0	21-2
475.00	21-2	21-5	21-9	22-0	22-4	22-7	22-11	23-2	23-5	23-7
500.00	23-5	23-9	24-1	24-5	24-9	25-1	25-4	25-8	25-11	26-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.126

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-11	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-5
275.00	7-2	7-3	7-4	7-4	7-5	7-6	7-7	7-7	7-8	7-9
300.00	8-7	8-8	8-8	8-9	8-10	8-11	9-0	9-1	9-2	9-2
325.00	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10
350.00	11-8	11-9	11-10	11-11	12-1	12-2	12-3	12-4	12-5	12-6
375.00	13-5	13-6	13-7	13-9	13-10	13-11	14-1	14-2	14-3	14-5
400.00	15-3	15-4	15-6	15-7	15-9	15-10	16-0	16-1	16-3	16-4
425.00	17-2	17-4	17-6	17-8	17-9	17-11	18-1	18-2	18-4	18-6
450.00	19-3	19-5	19-7	19-9	19-11	20-1	20-3	20-5	20-7	20-9
475.00	21-6	21-8	21-10	22-0	22-3	22-5	22-7	22-9	22-11	23-1
500.00	23-10	24-0	24-3	24-5	24-8	24-10	25-0	25-3	25-5	25-7
525.00	26-3	26-6	26-9	26-11	27-2	27-5	27-7	27-10	28-0	28-3
550.00	28-10	29-1	29-4	29-7	29-10	30-1	30-4	30-6	30-9	31-0
575.00	31-6	31-10	32-1	32-4	32-7	32-10	33-1	33-5	33-8	33-11
600.00	34-4	34-8	34-11	35-3	35-6	35-10	36-1	36-4	36-8	36-11
625.00	37-3	37-7	37-11	38-3	38-7	38-10	39-2	39-6	39-9	40-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-0	6-0	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5
275.00	7-3	7-4	7-4	7-5	7-6	7-6	7-7	7-8	7-9	7-9
300.00	8-7	8-8	8-9	8-10	8-11	9-0	9-1	9-1	9-2	9-3
325.00	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10
350.00	11-9	11-10	11-11	12-0	12-1	12-3	12-4	12-5	12-6	12-7
375.00	13-5	13-7	13-8	13-10	13-11	14-0	14-2	14-3	14-4	14-5
400.00	15-4	15-5	15-7	15-8	15-10	16-0	16-1	16-3	16-4	16-5
425.00	17-3	17-5	17-7	17-9	17-11	18-0	18-2	18-4	18-5	18-7
450.00	19-5	19-7	19-9	19-11	20-1	20-3	20-5	20-6	20-8	20-10
475.00	21-7	21-10	22-0	22-2	22-4	22-6	22-9	22-11	23-1	23-2
500.00	23-11	24-2	24-4	24-7	24-9	25-0	25-2	25-4	25-7	25-8
525.00	26-5	26-8	26-10	27-1	27-4	27-7	27-9	28-0	28-2	28-4
550.00	29-0	29-3	29-6	29-9	30-0	30-3	30-6	30-9	30-11	31-1
575.00	31-8	32-0	32-3	32-6	32-10	33-1	33-4	33-7	33-10	34-0
600.00	34-6	34-10	35-2	35-5	35-9	36-0	36-4	36-7	36-10	37-1
625.00	37-6	37-10	38-2	38-5	38-9	39-1	39-5	39-9	40-0	40-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.127

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	0.75	1313	0.65	1500*
20	0	0	0	0.44	0.28	1961	0.26	2084
30	0	0	0	0.44	0.34	1635	0.3	1822
40	0	0	0	0.44	0.41	1329	0.35	1563
50	0	0	0	0.44	0.52	1060	0.42	1313
60	0	0	0	0.44	0.65	842	0.51	1082
70	0	0	0	0.44	0.81	683	0.62	883
80	0	0	0	0.44	0.96	571	0.76	725
90	0	0	0	0.44	1.06	520	0.9	608
100	0	0	0	0.44	1.13	486	1.05	524
110	0	0	0	0.44	1.21	456	1.19	462
120	0	0	0	0.44	1.29	428	1.29	428
130	0	0	0	0.44	1.36	405	1.36	405
167	0	0	0	0.44	1.63	338	1.63	338
212	0	0	0	0.44	1.93	286	1.93	286

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	2.79	1406	2.61	1500*
20	0	0	0	0.44	1.63	1348	1.47	1497
30	0	0	0	0.44	1.87	1176	1.66	1322
40	0	0	0	0.44	2.12	1039	1.88	1173
50	0	0	0	0.44	2.37	929	2.1	1047
60	0	0	0	0.44	2.61	842	2.33	944
70	0	0	0	0.44	2.85	772	2.56	860
80	0	0	0	0.44	3.08	715	2.79	790
90	0	0	0	0.44	3.3	668	3.01	733
100	0	0	0	0.44	3.47	634	3.22	684
110	0	0	0	0.44	3.59	613	3.42	644
120	0	0	0	0.44	3.71	594	3.62	608
130	0	0	0	0.44	3.82	576	3.81	578
167	0	0	0	0.44	4.24	520	4.24	520
212	0	0	0	0.44	4.71	468	4.71	468

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.128

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	6.1	1448	5.88	1500*
20	0	0	0	0.44	4.71	1051	4.42	1120
30	0	0	0	0.44	5.02	987	4.71	1051
40	0	0	0	0.44	5.32	932	5	991
50	0	0	0	0.44	5.61	884	5.28	938
60	0	0	0	0.44	5.88	843	5.56	892
70	0	0	0	0.44	6.15	806	5.82	851
80	0	0	0	0.44	6.42	773	6.08	815
90	0	0	0	0.44	6.67	743	6.34	783
100	0	0	0	0.44	6.92	717	6.58	753
110	0	0	0	0.44	7.12	697	6.82	727
120	0	0	0	0.44	7.26	684	7.06	703
130	0	0	0	0.44	7.4	671	7.29	681
167	0	0	0	0.44	7.91	627	7.91	627
212	0	0	0	0.44	8.51	584	8.51	584

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	10.7	1468	10.47	1500*
20	0	0	0	0.44	9.26	952	8.94	986
30	0	0	0	0.44	9.58	921	9.25	953
40	0	0	0	0.44	9.88	893	9.55	924
50	0	0	0	0.44	10.18	867	9.84	896
60	0	0	0	0.44	10.47	843	10.13	871
70	0	0	0	0.44	10.76	820	10.41	848
80	0	0	0	0.44	11.04	800	10.68	826
90	0	0	0	0.44	11.31	780	10.95	806
100	0	0	0	0.44	11.58	762	11.22	787
110	0	0	0	0.44	11.84	746	11.48	769
120	0	0	0	0.44	12.02	735	11.74	752
130	0	0	0	0.44	12.18	725	11.99	737
167	0	0	0	0.44	12.75	693	12.75	693
212	0	0	0	0.44	13.43	658	13.43	658

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	16.63	1478	16.39	1500*
20	0	0	0	0.44	15.17	910	14.84	930
30	0	0	0	0.44	15.48	892	15.15	911
40	0	0	0	0.44	15.79	874	15.45	894
50	0	0	0	0.44	16.09	858	15.74	877
60	0	0	0	0.44	16.39	843	16.04	861
70	0	0	0	0.44	16.68	828	16.32	846
80	0	0	0	0.44	16.97	814	16.61	832
90	0	0	0	0.44	17.26	801	16.89	818
100	0	0	0	0.44	17.54	788	17.16	805
110	0	0	0	0.44	17.81	776	17.44	792
120	0	0	0	0.44	18.04	766	17.7	781
130	0	0	0	0.44	18.21	759	17.97	769
167	0	0	0	0.44	18.83	734	18.83	734
212	0	0	0	0.44	19.57	707	19.57	707

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2
125.00	0-5	0-6	0-7	0-8	0-10	1-0	1-2	1-5	1-8	1-10
150.00	0-7	0-8	0-10	0-11	1-2	1-5	1-8	2-0	2-4	2-8
175.00	0-10	0-11	1-1	1-3	1-7	1-11	2-4	2-9	3-3	3-8
200.00	1-1	1-2	1-5	1-8	2-0	2-6	3-0	3-7	4-2	4-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-8
100.00	0-3	0-4	0-5	0-6	0-8	0-10	1-0	1-1	1-2	1-2
125.00	0-5	0-6	0-8	0-10	1-0	1-3	1-6	1-8	1-9	1-11
150.00	0-8	0-9	0-11	1-2	1-6	1-10	2-2	2-5	2-7	2-9
175.00	0-10	1-0	1-3	1-7	2-0	2-6	2-11	3-3	3-6	3-8
200.00	1-1	1-4	1-8	2-1	2-7	3-3	3-10	4-3	4-6	4-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.131

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-10
125.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
150.00	0-10	0-11	1-1	1-2	1-4	1-5	1-7	1-8	1-10	1-11
175.00	1-2	1-3	1-5	1-7	1-9	2-0	2-2	2-4	2-6	2-7
200.00	1-6	1-8	1-11	2-1	2-4	2-7	2-9	3-0	3-3	3-5
225.00	1-10	2-1	2-5	2-8	2-11	3-3	3-6	3-10	4-1	4-4
250.00	2-4	2-7	2-11	3-3	3-8	4-0	4-4	4-8	5-0	5-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 5	0- 6	0- 6	0- 7	0- 8	0- 9	0- 9	0-10	0-10	0-11
125.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
150.00	0-11	1-1	1-2	1-4	1-6	1-7	1-9	1-10	1-11	2-0
175.00	1-3	1-5	1-7	1-10	2-0	2-2	2-4	2-6	2-8	2-9
200.00	1-8	1-10	2-1	2-4	2-7	2-10	3-1	3-4	3-6	3-7
225.00	2-1	2-4	2-8	3-0	3-4	3-7	3-11	4-2	4-5	4-7
250.00	2-7	2-11	3-4	3-8	4-1	4-5	4-10	5-2	5-5	5-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.132

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-8
175.00	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2	2-3	2-4
200.00	2-0	2-1	2-3	2-4	2-6	2-7	2-8	2-10	2-11	3-0
225.00	2-6	2-8	2-10	3-0	3-1	3-3	3-5	3-7	3-8	3-10
250.00	3-1	3-3	3-6	3-8	3-10	4-1	4-3	4-5	4-7	4-9
275.00	3-9	4-0	4-2	4-5	4-8	4-11	5-1	5-4	5-6	5-9
300.00	4-5	4-9	5-0	5-3	5-7	5-10	6-1	6-4	6-7	6-10
325.00	5-2	5-6	5-10	6-2	6-6	6-10	7-2	7-5	7-9	8-0
350.00	6-0	6-5	6-10	7-2	7-7	7-11	8-3	8-8	9-0	9-3
375.00	6-11	7-4	7-10	8-3	8-8	9-1	9-6	9-11	10-3	10-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-9
175.00	1-7	1-8	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
200.00	2-1	2-3	2-4	2-6	2-7	2-9	2-10	3-0	3-1	3-2
225.00	2-8	2-10	3-0	3-2	3-4	3-6	3-7	3-9	3-11	4-0
250.00	3-3	3-6	3-8	3-11	4-1	4-3	4-5	4-8	4-10	4-11
275.00	4-0	4-3	4-6	4-9	4-11	5-2	5-5	5-7	5-10	6-0
300.00	4-9	5-0	5-4	5-7	5-11	6-2	6-5	6-8	6-11	7-1
325.00	5-6	5-11	6-3	6-7	6-11	7-3	7-6	7-10	8-1	8-4
350.00	6-5	6-10	7-3	7-8	8-0	8-5	8-9	9-1	9-5	9-8
375.00	7-4	7-10	8-4	8-9	9-2	9-7	10-0	10-5	10-10	11-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.133

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-3	2-4	2-5	2-6	2-6	2-7	2-8	2-9	2-10	2-10
225.00	2-10	2-11	3-0	3-1	3-2	3-3	3-5	3-6	3-7	3-8
250.00	3-6	3-7	3-9	3-10	3-11	4-1	4-2	4-3	4-5	4-6
275.00	4-3	4-4	4-6	4-8	4-9	4-11	5-1	5-2	5-4	5-5
300.00	5-0	5-2	5-4	5-6	5-8	5-10	6-0	6-2	6-4	6-5
325.00	5-11	6-1	6-4	6-6	6-8	6-10	7-1	7-3	7-5	7-7
350.00	6-10	7-1	7-4	7-6	7-9	8-0	8-2	8-5	8-7	8-9
375.00	7-10	8-2	8-5	8-8	8-11	9-2	9-5	9-8	9-10	10-1
400.00	8-11	9-3	9-7	9-10	10-2	10-5	10-8	10-11	11-3	11-6
425.00	10-1	10-5	10-9	11-1	11-5	11-9	12-1	12-4	12-8	13-0
450.00	11-4	11-9	12-1	12-5	12-10	13-2	13-6	13-10	14-2	14-6
475.00	12-7	13-1	13-6	13-11	14-3	14-8	15-1	15-5	15-10	16-2
500.00	14-0	14-5	14-11	15-5	15-10	16-3	16-8	17-2	17-7	17-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10	2-11	2-11
225.00	2-11	3-0	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
250.00	3-7	3-9	3-10	4-0	4-1	4-2	4-4	4-5	4-6	4-7
275.00	4-5	4-6	4-8	4-10	4-11	5-1	5-3	5-4	5-6	5-7
300.00	5-3	5-5	5-7	5-9	5-11	6-1	6-2	6-4	6-6	6-8
325.00	6-1	6-4	6-6	6-9	6-11	7-1	7-3	7-6	7-8	7-10
350.00	7-1	7-4	7-7	7-10	8-0	8-3	8-5	8-8	8-10	9-1
375.00	8-2	8-5	8-8	8-11	9-2	9-5	9-8	9-11	10-2	10-5
400.00	9-3	9-7	9-11	10-2	10-6	10-9	11-0	11-4	11-7	11-10
425.00	10-6	10-10	11-2	11-6	11-10	12-2	12-6	12-9	13-1	13-4
450.00	11-9	12-1	12-6	12-11	13-3	13-7	14-0	14-4	14-8	15-0
475.00	13-1	13-6	13-11	14-4	14-9	15-2	15-7	16-0	16-4	16-9
500.00	14-6	15-0	15-5	15-11	16-4	16-10	17-3	17-8	18-1	18-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.134

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-3	4-4
275.00	4-6	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3
300.00	5-4	5-5	5-7	5-8	5-9	5-10	6-0	6-1	6-2	6-3
325.00	6-3	6-5	6-6	6-8	6-9	6-11	7-0	7-2	7-3	7-4
350.00	7-3	7-5	7-7	7-9	7-10	8-0	8-2	8-3	8-5	8-6
375.00	8-4	8-6	8-8	8-10	9-0	9-2	9-4	9-6	9-8	9-10
400.00	9-6	9-8	9-11	10-1	10-3	10-5	10-7	10-10	11-0	11-2
425.00	10-9	10-11	11-2	11-4	11-7	11-9	12-0	12-2	12-5	12-7
450.00	12-0	12-3	12-6	12-9	13-0	13-3	13-5	13-8	13-11	14-1
475.00	13-5	13-8	13-11	14-2	14-6	14-9	15-0	15-3	15-6	15-9
500.00	14-10	15-2	15-5	15-9	16-0	16-4	16-7	16-11	17-2	17-5
525.00	16-4	16-8	17-0	17-4	17-8	18-0	18-4	18-7	18-11	19-3
550.00	18-0	18-4	18-8	19-1	19-5	19-9	20-1	20-5	20-9	21-1
575.00	19-8	20-0	20-5	20-10	21-3	21-7	22-0	22-4	22-9	23-1
600.00	21-5	21-10	22-3	22-8	23-1	23-6	23-11	24-4	24-9	25-1
625.00	23-2	23-8	24-2	24-7	25-1	25-6	26-0	26-5	26-10	27-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-5
275.00	4-7	4-8	4-9	4-10	4-11	5-0	5-2	5-3	5-4	5-5
300.00	5-5	5-7	5-8	5-9	5-11	6-0	6-1	6-2	6-4	6-5
325.00	6-5	6-6	6-8	6-10	6-11	7-1	7-2	7-3	7-5	7-6
350.00	7-5	7-7	7-9	7-11	8-0	8-2	8-4	8-5	8-7	8-9
375.00	8-6	8-8	8-11	9-1	9-3	9-5	9-6	9-8	9-10	10-0
400.00	9-8	9-11	10-1	10-4	10-6	10-8	10-10	11-0	11-3	11-5
425.00	10-11	11-2	11-5	11-7	11-10	12-1	12-3	12-6	12-8	12-10
450.00	12-3	12-6	12-9	13-0	13-3	13-6	13-9	14-0	14-2	14-5
475.00	13-8	14-0	14-3	14-6	14-9	15-1	15-4	15-7	15-10	16-1
500.00	15-2	15-6	15-9	16-1	16-5	16-8	17-0	17-3	17-6	17-10
525.00	16-9	17-1	17-5	17-9	18-1	18-5	18-9	19-0	19-4	19-8
550.00	18-4	18-9	19-1	19-6	19-10	20-2	20-7	20-11	21-3	21-7
575.00	20-1	20-6	20-11	21-3	21-8	22-1	22-5	22-10	23-2	23-7
600.00	21-10	22-4	22-9	23-2	23-7	24-0	24-5	24-10	25-3	25-8
625.00	23-9	24-2	24-8	25-2	25-8	26-1	26-6	27-0	27-5	27-10

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SHEET 135 OF 359

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.135

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	0.6	1634	0.49	2000*
20	0	0	0	0.44	0.23	2431	0.21	2675
30	0	0	0	0.44	0.26	2091	0.23	2415
40	0	0	0	0.44	0.31	1759	0.26	2152
50	0	0	0	0.44	0.38	1445	0.29	1888
60	0	0	0	0.44	0.47	1159	0.34	1625
70	0	0	0	0.44	0.6	920	0.4	1370
80	0	0	0	0.44	0.75	738	0.49	1132
90	0	0	0	0.44	0.84	658	0.6	924
100	0	0	0	0.44	0.9	609	0.73	756
110	0	0	0	0.44	0.97	564	0.87	630
120	0	0	0	0.44	1.05	525	1.02	539
130	0	0	0	0.44	1.12	490	1.12	492
167	0	0	0	0.44	1.4	393	1.4	394
212	0	0	0	0.44	1.72	320	1.72	321

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	2.21	1772	1.96	2000*
20	0	0	0	0.44	1.09	2022	0.96	2302
30	0	0	0	0.44	1.26	1752	1.06	2068
40	0	0	0	0.44	1.45	1514	1.19	1843
50	0	0	0	0.44	1.68	1312	1.35	1631
60	0	0	0	0.44	1.92	1147	1.53	1439
70	0	0	0	0.44	2.17	1015	1.73	1271
80	0	0	0	0.44	2.42	911	1.95	1129
90	0	0	0	0.44	2.66	828	2.18	1010
100	0	0	0	0.44	2.85	771	2.41	913
110	0	0	0	0.44	2.97	740	2.64	834
120	0	0	0	0.44	3.09	712	2.86	769
130	0	0	0	0.44	3.21	685	3.08	714
167	0	0	0	0.44	3.65	604	3.64	605
212	0	0	0	0.44	4.16	530	4.15	531

* Design Condition

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SHEET 136 OF 359

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.136

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	4.75	1856	4.41	2000*
20	0	0	0	0.44	3.05	1622	2.68	1850
30	0	0	0	0.44	3.37	1468	2.94	1687
40	0	0	0	0.44	3.7	1338	3.21	1541
50	0	0	0	0.44	4.03	1230	3.5	1414
60	0	0	0	0.44	4.35	1139	3.8	1304
70	0	0	0	0.44	4.67	1062	4.1	1208
80	0	0	0	0.44	4.97	996	4.4	1126
90	0	0	0	0.44	5.27	940	4.69	1056
100	0	0	0	0.44	5.56	891	4.98	994
110	0	0	0	0.44	5.82	852	5.27	941
120	0	0	0	0.44	5.97	830	5.54	894
130	0	0	0	0.44	6.12	810	5.81	853
167	0	0	0	0.44	6.68	742	6.67	744
212	0	0	0	0.44	7.33	677	7.32	678

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	8.24	1904	7.84	2000*
20	0	0	0	0.44	6.28	1402	5.73	1537
30	0	0	0	0.44	6.67	1321	6.09	1447
40	0	0	0	0.44	7.05	1250	6.45	1367
50	0	0	0	0.44	7.41	1188	6.8	1296
60	0	0	0	0.44	7.77	1134	7.15	1232
70	0	0	0	0.44	8.13	1085	7.49	1176
80	0	0	0	0.44	8.47	1041	7.83	1125
90	0	0	0	0.44	8.8	1002	8.16	1080
100	0	0	0	0.44	9.12	966	8.49	1039
110	0	0	0	0.44	9.44	934	8.81	1001
120	0	0	0	0.44	9.71	909	9.12	967
130	0	0	0	0.44	9.89	892	9.42	936
167	0	0	0	0.44	10.54	837	10.49	841
212	0	0	0	0.44	11.3	781	11.29	782

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	12.7	1933	12.27	2000*
20	0	0	0	0.44	10.63	1296	10.01	1376
30	0	0	0	0.44	11.03	1249	10.4	1325
40	0	0	0	0.44	11.43	1206	10.78	1278
50	0	0	0	0.44	11.81	1167	11.16	1235
60	0	0	0	0.44	12.19	1131	11.53	1195
70	0	0	0	0.44	12.56	1097	11.9	1158
80	0	0	0	0.44	12.92	1067	12.25	1125
90	0	0	0	0.44	13.28	1038	12.61	1093
100	0	0	0	0.44	13.63	1012	12.95	1064
110	0	0	0	0.44	13.97	987	13.29	1037
120	0	0	0	0.44	14.3	965	13.63	1012
130	0	0	0	0.44	14.54	949	13.95	988
167	0	0	0	0.44	15.27	904	15.12	912
212	0	0	0	0.44	16.12	856	16.1	857

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.138

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6
100.00	0-2	0-3	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-10
125.00	0-4	0-4	0-5	0-5	0-6	0-8	0-9	0-11	1-2	1-4
150.00	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-8	2-0
175.00	0-8	0-8	0-9	0-11	1-0	1-3	1-6	1-10	2-3	2-8
200.00	0-10	0-11	1-0	1-2	1-4	1-7	1-11	2-5	2-11	3-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6	0-7
100.00	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-10	0-11	1-0
125.00	0-4	0-5	0-6	0-7	0-9	0-11	1-2	1-4	1-5	1-6
150.00	0-6	0-7	0-8	0-10	1-1	1-4	1-8	1-11	2-0	2-2
175.00	0-8	0-10	0-11	1-2	1-5	1-10	2-3	2-7	2-9	3-0
200.00	0-11	1-1	1-3	1-6	1-11	2-5	3-0	3-4	3-7	3-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8
125.00	0-4	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0
150.00	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-6
175.00	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-8	1-10	2-0
200.00	0-11	1-1	1-2	1-4	1-6	1-9	1-11	2-2	2-5	2-8
225.00	1-3	1-4	1-6	1-8	1-11	2-2	2-6	2-9	3-1	3-4
250.00	1-6	1-8	1-10	2-1	2-5	2-8	3-1	3-5	3-9	4-2

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-9
125.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
150.00	0-7	0-8	0-10	0-11	1-1	1-3	1-4	1-6	1-7	1-8
175.00	0-10	1-0	1-1	1-3	1-6	1-8	1-10	2-0	2-2	2-3
200.00	1-1	1-3	1-5	1-8	1-11	2-2	2-5	2-8	2-10	3-0
225.00	1-5	1-7	1-10	2-1	2-5	2-9	3-1	3-4	3-7	3-9
250.00	1-8	2-0	2-3	2-7	3-0	3-5	3-9	4-2	4-6	4-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.140

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4
175.00	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-7	1-8	1-9
200.00	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-3	2-4
225.00	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0
250.00	1-10	2-0	2-3	2-5	2-8	2-10	3-1	3-3	3-6	3-8
275.00	2-3	2-6	2-8	2-11	3-2	3-5	3-8	3-11	4-2	4-5
300.00	2-8	2-11	3-3	3-6	3-10	4-1	4-5	4-8	5-0	5-3
325.00	3-2	3-5	3-9	4-1	4-6	4-10	5-2	5-6	5-10	6-2
350.00	3-8	4-0	4-4	4-9	5-2	5-7	6-0	6-5	6-9	7-2
375.00	4-2	4-7	5-0	5-6	5-11	6-5	6-10	7-4	7-9	8-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-5
175.00	1-0	1-2	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-0
200.00	1-4	1-6	1-8	1-9	1-11	2-1	2-3	2-4	2-6	2-7
225.00	1-9	1-11	2-1	2-3	2-5	2-7	2-10	3-0	3-2	3-3
250.00	2-1	2-4	2-7	2-10	3-0	3-3	3-5	3-8	3-10	4-0
275.00	2-7	2-10	3-1	3-5	3-8	3-11	4-2	4-5	4-8	4-11
300.00	3-1	3-4	3-8	4-0	4-4	4-8	5-0	5-3	5-7	5-10
325.00	3-7	4-0	4-4	4-9	5-1	5-6	5-10	6-2	6-6	6-10
350.00	4-2	4-7	5-0	5-6	5-11	6-4	6-9	7-2	7-7	7-11
375.00	4-9	5-3	5-9	6-4	6-10	7-4	7-9	8-3	8-8	9-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.141

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
225.00	1-10	1-11	2-0	2-2	2-3	2-4	2-6	2-7	2-8	2-9
250.00	2-3	2-5	2-6	2-8	2-10	2-11	3-1	3-2	3-4	3-5
275.00	2-8	2-11	3-1	3-3	3-5	3-6	3-8	3-10	4-0	4-2
300.00	3-3	3-5	3-7	3-10	4-0	4-3	4-5	4-7	4-9	4-11
325.00	3-9	4-0	4-3	4-6	4-9	4-11	5-2	5-5	5-7	5-10
350.00	4-5	4-8	4-11	5-2	5-6	5-9	6-0	6-3	6-6	6-9
375.00	5-0	5-4	5-8	6-0	6-3	6-7	6-11	7-2	7-6	7-9
400.00	5-9	6-1	6-5	6-10	7-2	7-6	7-10	8-2	8-6	8-10
425.00	6-6	6-10	7-3	7-8	8-1	8-6	8-10	9-3	9-7	9-11
450.00	7-3	7-8	8-2	8-7	9-1	9-6	9-11	10-4	10-9	11-2
475.00	8-1	8-7	9-1	9-7	10-1	10-7	11-1	11-6	12-0	12-5
500.00	8-11	9-6	10-1	10-8	11-2	11-9	12-3	12-9	13-3	13-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
225.00	2-0	2-1	2-3	2-4	2-6	2-7	2-8	2-9	2-11	3-0
250.00	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-5	3-7	3-8
275.00	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2	4-4	4-6
300.00	3-6	3-9	4-0	4-2	4-4	4-7	4-9	4-11	5-2	5-4
325.00	4-2	4-5	4-8	4-11	5-2	5-4	5-7	5-10	6-0	6-3
350.00	4-10	5-1	5-5	5-8	5-11	6-3	6-6	6-9	7-0	7-3
375.00	5-6	5-10	6-2	6-6	6-10	7-2	7-5	7-9	8-0	8-4
400.00	6-3	6-8	7-1	7-5	7-9	8-2	8-6	8-10	9-1	9-5
425.00	7-1	7-6	7-11	8-4	8-9	9-2	9-7	9-11	10-4	10-8
450.00	7-11	8-5	8-11	9-5	9-10	10-3	10-9	11-2	11-7	11-11
475.00	8-10	9-5	9-11	10-5	11-0	11-6	11-11	12-5	12-10	13-4
500.00	9-10	10-5	11-0	11-7	12-2	12-8	13-3	13-9	14-3	14-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.142

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-6	2-7	2-8	2-9	2-11	3-0	3-1	3-2	3-3	3-4
275.00	3-0	3-2	3-3	3-4	3-6	3-7	3-8	3-10	3-11	4-0
300.00	3-7	3-9	3-11	4-0	4-2	4-3	4-5	4-6	4-8	4-9
325.00	4-3	4-5	4-7	4-9	4-10	5-0	5-2	5-4	5-6	5-7
350.00	4-11	5-1	5-3	5-6	5-8	5-10	6-0	6-2	6-4	6-6
375.00	5-8	5-10	6-1	6-3	6-6	6-8	6-11	7-1	7-3	7-6
400.00	6-5	6-8	6-11	7-2	7-5	7-7	7-10	8-1	8-3	8-6
425.00	7-3	7-6	7-9	8-1	8-4	8-7	8-10	9-1	9-4	9-7
450.00	8-1	8-5	8-9	9-0	9-4	9-8	9-11	10-3	10-6	10-9
475.00	9-0	9-5	9-9	10-1	10-5	10-9	11-1	11-5	11-8	12-0
500.00	10-0	10-5	10-9	11-2	11-6	11-11	12-3	12-7	12-11	13-4
525.00	11-0	11-6	11-11	12-4	12-9	13-1	13-6	13-11	14-3	14-8
550.00	12-1	12-7	13-1	13-6	13-11	14-5	14-10	15-3	15-8	16-1
575.00	13-3	13-9	14-3	14-9	15-3	15-9	16-3	16-8	17-2	17-7
600.00	14-5	15-0	15-6	16-1	16-7	17-2	17-8	18-2	18-8	19-2
625.00	15-8	16-3	16-10	17-5	18-0	18-7	19-2	19-8	20-3	20-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-8	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-5	3-6
275.00	3-3	3-4	3-5	3-7	3-8	3-10	3-11	4-0	4-1	4-3
300.00	3-10	4-0	4-1	4-3	4-5	4-6	4-8	4-9	4-11	5-0
325.00	4-6	4-8	4-10	5-0	5-2	5-4	5-5	5-7	5-9	5-11
350.00	5-2	5-5	5-7	5-9	6-0	6-2	6-4	6-6	6-8	6-10
375.00	6-0	6-2	6-5	6-8	6-10	7-1	7-3	7-6	7-8	7-10
400.00	6-10	7-1	7-4	7-7	7-10	8-0	8-3	8-6	8-9	8-11
425.00	7-8	8-0	8-3	8-6	8-10	9-1	9-4	9-7	9-10	10-1
450.00	8-7	8-11	9-3	9-7	9-10	10-2	10-6	10-9	11-0	11-4
475.00	9-7	9-11	10-4	10-8	11-0	11-4	11-8	12-0	12-4	12-7
500.00	10-8	11-0	11-5	11-10	12-2	12-7	12-11	13-3	13-8	14-0
525.00	11-9	12-2	12-7	13-0	13-5	13-10	14-3	14-8	15-0	15-5
550.00	12-10	13-4	13-10	14-4	14-9	15-2	15-8	16-1	16-6	16-11
575.00	14-1	14-7	15-1	15-8	16-2	16-7	17-1	17-7	18-0	18-6
600.00	15-4	15-11	16-6	17-0	17-7	18-1	18-7	19-2	19-8	20-1
625.00	16-7	17-3	17-10	18-6	19-1	19-8	20-2	20-9	21-4	21-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.143

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	0.5	1944	0.39	2500*
20	0	0	0	0.44	0.19	2824	0.17	3201
30	0	0	0	0.44	0.22	2477	0.19	2948
40	0	0	0	0.44	0.26	2135	0.2	2690
50	0	0	0	0.44	0.31	1802	0.23	2428
60	0	0	0	0.44	0.37	1485	0.25	2163
70	0	0	0	0.44	0.46	1194	0.29	1897
80	0	0	0	0.44	0.58	948	0.34	1633
90	0	0	0	0.44	0.67	819	0.4	1376
100	0	0	0	0.44	0.73	757	0.48	1136
110	0	0	0	0.44	0.79	699	0.59	926
120	0	0	0	0.44	0.85	646	0.73	757
130	0	0	0	0.44	0.92	598	0.87	631
167	0	0	0	0.44	1.19	461	1.18	468
212	0	0	0	0.44	1.53	361	1.51	364

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	1.87	2099	1.57	2500*
20	0	0	0	0.44	0.86	2561	0.74	2963
30	0	0	0	0.44	0.98	2252	0.81	2720
40	0	0	0	0.44	1.12	1963	0.89	2477
50	0	0	0	0.44	1.3	1699	0.98	2236
60	0	0	0	0.44	1.5	1468	1.1	2002
70	0	0	0	0.44	1.73	1274	1.24	1778
80	0	0	0	0.44	1.97	1117	1.4	1571
90	0	0	0	0.44	2.22	991	1.59	1385
100	0	0	0	0.44	2.42	910	1.8	1223
110	0	0	0	0.44	2.53	869	2.02	1088
120	0	0	0	0.44	2.65	831	2.25	976
130	0	0	0	0.44	2.77	795	2.49	885
167	0	0	0	0.44	3.21	686	3.18	692
212	0	0	0	0.44	3.74	589	3.71	593

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.144

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.783	3.98	2218	3.53	2500*
20	0	0	0	0.44	2.23	2222	1.89	2615
30	0	0	0	0.44	2.49	1987	2.06	2400
40	0	0	0	0.44	2.78	1781	2.26	2194
50	0	0	0	0.44	3.09	1602	2.48	2000
60	0	0	0	0.44	3.41	1451	2.72	1821
70	0	0	0	0.44	3.74	1325	2.98	1659
80	0	0	0	0.44	4.07	1218	3.27	1516
90	0	0	0	0.44	4.39	1129	3.56	1391
100	0	0	0	0.44	4.7	1054	3.86	1283
110	0	0	0	0.44	4.98	995	4.16	1190
120	0	0	0	0.44	5.14	964	4.46	1110
130	0	0	0	0.44	5.3	936	4.76	1042
167	0	0	0	0.44	5.87	844	5.8	855
212	0	0	0	0.44	6.56	756	6.52	760

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.783	6.83	2298	6.27	2500*
20	0	0	0	0.44	4.55	1936	3.91	2252
30	0	0	0	0.44	4.94	1784	4.22	2089
40	0	0	0	0.44	5.33	1652	4.54	1939
50	0	0	0	0.44	5.73	1537	4.88	1804
60	0	0	0	0.44	6.12	1439	5.23	1683
70	0	0	0	0.44	6.51	1353	5.59	1575
80	0	0	0	0.44	6.89	1278	5.95	1480
90	0	0	0	0.44	7.26	1213	6.31	1395
100	0	0	0	0.44	7.63	1155	6.67	1320
110	0	0	0	0.44	7.98	1104	7.03	1254
120	0	0	0	0.44	8.3	1061	7.37	1195
130	0	0	0	0.44	8.49	1038	7.72	1142
167	0	0	0	0.44	9.18	960	8.92	988
212	0	0	0	0.44	10	882	9.95	886

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	10.43	2351	9.81	2500*
20	0	0	0	0.44	7.85	1754	6.98	1972
30	0	0	0	0.44	8.3	1658	7.39	1863
40	0	0	0	0.44	8.75	1573	7.8	1764
50	0	0	0	0.44	9.2	1497	8.22	1675
60	0	0	0	0.44	9.63	1430	8.63	1595
70	0	0	0	0.44	10.06	1369	9.04	1523
80	0	0	0	0.44	10.47	1315	9.45	1457
90	0	0	0	0.44	10.88	1266	9.85	1398
100	0	0	0	0.44	11.28	1221	10.25	1344
110	0	0	0	0.44	11.67	1181	10.64	1295
120	0	0	0	0.44	12.05	1144	11.02	1250
130	0	0	0	0.44	12.38	1114	11.4	1209
167	0	0	0	0.44	13.16	1048	12.74	1082
212	0	0	0	0.44	14.08	979	14.04	983

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.146

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Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-6	0-7
125.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-11
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-4
175.00	0-6	0-7	0-8	0-8	0-9	0-11	1-0	1-3	1-6	1-10
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-11	2-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-2	0-2	0-3	0-3	0-4	0-5	0-5	0-5
100.00	0-2	0-3	0-3	0-4	0-4	0-6	0-7	0-8	0-9	0-9
125.00	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-3
150.00	0-5	0-6	0-7	0-8	0-10	1-0	1-4	1-6	1-8	1-9
175.00	0-7	0-8	0-9	0-11	1-2	1-5	1-9	2-1	2-3	2-5
200.00	0-9	0-11	1-0	1-3	1-6	1-10	2-4	2-8	2-11	3-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.147

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9
150.00	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-2
175.00	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-7
200.00	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-0
225.00	0-11	1-0	1-1	1-3	1-5	1-7	1-9	2-0	2-3	2-7
250.00	1-2	1-3	1-5	1-6	1-9	1-11	2-2	2-6	2-10	3-2

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-7	0-8
125.00	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
150.00	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-5
175.00	0-8	0-9	0-10	1-0	1-2	1-4	1-6	1-8	1-10	1-11
200.00	0-10	1-0	1-1	1-4	1-6	1-9	2-0	2-3	2-5	2-6
225.00	1-1	1-3	1-5	1-8	1-11	2-2	2-6	2-10	3-1	3-2
250.00	1-4	1-6	1-9	2-0	2-4	2-8	3-1	3-6	3-9	4-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.148

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-0
175.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-5
200.00	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-9	1-10
225.00	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-4
250.00	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-11
275.00	1-7	1-9	1-11	2-1	2-3	2-6	2-9	3-0	3-3	3-6
300.00	1-11	2-1	2-3	2-6	2-9	3-0	3-3	3-7	3-10	4-2
325.00	2-3	2-5	2-8	2-11	3-2	3-6	3-10	4-2	4-6	4-11
350.00	2-7	2-10	3-1	3-4	3-8	4-1	4-5	4-10	5-3	5-8
375.00	2-11	3-3	3-6	3-10	4-3	4-8	5-1	5-7	6-0	6-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
175.00	0-9	0-10	0-11	1-1	1-2	1-3	1-5	1-6	1-7	1-8
200.00	1-0	1-1	1-3	1-4	1-6	1-8	1-10	1-11	2-1	2-3
225.00	1-3	1-5	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-10
250.00	1-7	1-9	1-11	2-2	2-4	2-7	2-10	3-1	3-3	3-6
275.00	1-10	2-1	2-4	2-7	2-10	3-2	3-5	3-8	3-11	4-2
300.00	2-3	2-6	2-9	3-1	3-5	3-9	4-1	4-5	4-8	5-0
325.00	2-7	2-11	3-3	3-8	4-0	4-5	4-9	5-2	5-6	5-10
350.00	3-0	3-5	3-9	4-2	4-8	5-1	5-6	6-0	6-5	6-9
375.00	3-6	3-11	4-4	4-10	5-4	5-10	6-4	6-10	7-4	7-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
225.00	1-3	1-4	1-5	1-7	1-8	1-9	1-11	2-0	2-1	2-3
250.00	1-6	1-8	1-9	1-11	2-1	2-2	2-4	2-6	2-7	2-9
275.00	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4
300.00	2-2	2-4	2-7	2-9	2-11	3-2	3-4	3-7	3-9	3-11
325.00	2-7	2-9	3-0	3-3	3-5	3-8	3-11	4-2	4-5	4-8
350.00	3-0	3-3	3-6	3-9	4-0	4-3	4-7	4-10	5-1	5-5
375.00	3-5	3-8	4-0	4-3	4-7	4-11	5-3	5-7	5-10	6-2
400.00	3-11	4-3	4-6	4-11	5-3	5-7	5-11	6-4	6-8	7-0
425.00	4-5	4-9	5-2	5-6	5-11	6-4	6-9	7-2	7-6	7-11
450.00	4-11	5-4	5-9	6-2	6-7	7-1	7-6	8-0	8-5	8-11
475.00	5-6	5-11	6-5	6-11	7-5	7-11	8-5	8-11	9-5	9-11
500.00	6-1	6-7	7-1	7-8	8-2	8-9	9-4	9-10	10-5	11-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0
225.00	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-5	2-6
250.00	1-9	1-11	2-1	2-3	2-5	2-7	2-8	2-10	3-0	3-1
275.00	2-2	2-4	2-6	2-8	2-11	3-1	3-3	3-5	3-7	3-9
300.00	2-7	2-9	3-0	3-3	3-5	3-8	3-11	4-1	4-3	4-6
325.00	3-0	3-3	3-6	3-9	4-0	4-4	4-7	4-10	5-0	5-3
350.00	3-6	3-9	4-1	4-5	4-8	5-0	5-3	5-7	5-10	6-1
375.00	4-0	4-4	4-8	5-0	5-5	5-9	6-1	6-5	6-8	7-0
400.00	4-7	4-11	5-4	5-9	6-1	6-6	6-11	7-3	7-8	8-0
425.00	5-2	5-7	6-0	6-6	6-11	7-4	7-9	8-2	8-7	9-0
450.00	5-9	6-3	6-9	7-3	7-9	8-3	8-9	9-2	9-8	10-1
475.00	6-5	7-0	7-6	8-1	8-8	9-2	9-9	10-3	10-9	11-3
500.00	7-1	7-9	8-4	8-11	9-7	10-2	10-9	11-4	11-11	12-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.150

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-6	2-7	2-8
275.00	2-1	2-3	2-4	2-6	2-7	2-9	2-10	3-0	3-1	3-3
300.00	2-6	2-8	2-10	2-11	3-1	3-3	3-5	3-7	3-8	3-10
325.00	2-11	3-1	3-4	3-6	3-8	3-10	4-0	4-2	4-4	4-6
350.00	3-5	3-7	3-10	4-0	4-3	4-5	4-8	4-10	5-0	5-3
375.00	3-11	4-2	4-5	4-7	4-10	5-1	5-4	5-6	5-9	6-0
400.00	4-6	4-9	5-0	5-3	5-6	5-9	6-1	6-4	6-7	6-10
425.00	5-1	5-4	5-8	5-11	6-3	6-6	6-10	7-1	7-5	7-8
450.00	5-8	6-0	6-4	6-8	7-0	7-4	7-8	8-0	8-4	8-7
475.00	6-4	6-8	7-0	7-5	7-9	8-2	8-6	8-11	9-3	9-7
500.00	7-0	7-5	7-10	8-3	8-8	9-0	9-5	9-10	10-3	10-8
525.00	7-8	8-2	8-7	9-1	9-6	10-0	10-5	10-10	11-4	11-9
550.00	8-5	8-11	9-5	9-11	10-5	10-11	11-5	11-11	12-5	12-10
575.00	9-3	9-9	10-4	10-10	11-5	12-0	12-6	13-0	13-7	14-1
600.00	10-1	10-8	11-3	11-10	12-5	13-0	13-7	14-2	14-9	15-4
625.00	10-11	11-7	12-2	12-10	13-6	14-2	14-9	15-5	16-0	16-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-0	2-1	2-2	2-4	2-5	2-6	2-7	2-9	2-10	2-11
275.00	2-4	2-6	2-8	2-9	2-11	3-0	3-2	3-3	3-5	3-6
300.00	2-10	3-0	3-2	3-4	3-6	3-7	3-9	3-11	4-1	4-2
325.00	3-4	3-6	3-8	3-11	4-1	4-3	4-5	4-7	4-9	4-11
350.00	3-10	4-1	4-3	4-6	4-9	4-11	5-2	5-4	5-6	5-9
375.00	4-5	4-8	4-11	5-2	5-5	5-8	5-11	6-1	6-4	6-7
400.00	5-0	5-4	5-7	5-11	6-2	6-5	6-8	7-0	7-3	7-6
425.00	5-8	6-0	6-4	6-8	6-11	7-3	7-7	7-10	8-2	8-5
450.00	6-4	6-9	7-1	7-5	7-10	8-2	8-6	8-10	9-2	9-5
475.00	7-1	7-6	7-11	8-4	8-8	9-1	9-5	9-10	10-2	10-6
500.00	7-10	8-4	8-9	9-2	9-8	10-1	10-6	10-11	11-3	11-8
525.00	8-8	9-2	9-8	10-2	10-7	11-1	11-7	12-0	12-5	12-10
550.00	9-6	10-1	10-7	11-2	11-8	12-2	12-8	13-2	13-8	14-1
575.00	10-5	11-0	11-7	12-2	12-9	13-4	13-10	14-5	14-11	15-5
600.00	11-4	12-0	12-7	13-3	13-10	14-6	15-1	15-8	16-3	16-10
625.00	12-3	13-0	13-8	14-4	15-1	15-9	16-4	17-0	17-8	18-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.151

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	0.43	2257	0.33	3000*
20	0	0	0	0.44	0.17	3187	0.15	3701
30	0	0	0	0.44	0.19	2837	0.16	3456
40	0	0	0	0.44	0.22	2491	0.17	3206
50	0	0	0	0.44	0.26	2149	0.19	2951
60	0	0	0	0.44	0.3	1815	0.2	2691
70	0	0	0	0.44	0.37	1497	0.23	2427
80	0	0	0	0.44	0.46	1205	0.25	2161
90	0	0	0	0.44	0.55	1000	0.29	1893
100	0	0	0	0.44	0.59	929	0.34	1627
110	0	0	0	0.44	0.64	860	0.4	1369
120	0	0	0	0.44	0.69	795	0.49	1128
130	0	0	0	0.44	0.75	734	0.6	918
167	0	0	0	0.44	1	551	0.96	570
212	0	0	0	0.44	1.33	412	1.3	423

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	1.63	2409	1.31	3000*
20	0	0	0	0.44	0.73	3012	0.62	3541
30	0	0	0	0.44	0.82	2686	0.67	3301
40	0	0	0	0.44	0.93	2371	0.72	3058
50	0	0	0	0.44	1.06	2073	0.78	2812
60	0	0	0	0.44	1.22	1798	0.86	2567
70	0	0	0	0.44	1.42	1554	0.95	2323
80	0	0	0	0.44	1.64	1346	1.06	2084
90	0	0	0	0.44	1.87	1174	1.19	1854
100	0	0	0	0.44	2.07	1061	1.34	1639
110	0	0	0	0.44	2.18	1010	1.52	1444
120	0	0	0	0.44	2.29	962	1.73	1273
130	0	0	0	0.44	2.4	917	1.95	1129
167	0	0	0	0.44	2.83	777	2.78	792
212	0	0	0	0.44	3.37	653	3.32	664

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.152

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	3.46	2548	2.94	3000*
20	0	0	0	0.44	1.79	2759	1.5	3292
30	0	0	0	0.44	2	2478	1.62	3063
40	0	0	0	0.44	2.23	2218	1.75	2836
50	0	0	0	0.44	2.5	1984	1.89	2613
60	0	0	0	0.44	2.79	1778	2.07	2396
70	0	0	0	0.44	3.09	1600	2.26	2188
80	0	0	0	0.44	3.42	1449	2.49	1992
90	0	0	0	0.44	3.74	1323	2.73	1813
100	0	0	0	0.44	4.07	1217	3	1651
110	0	0	0	0.44	4.36	1137	3.28	1508
120	0	0	0	0.44	4.51	1098	3.58	1383
130	0	0	0	0.44	4.67	1062	3.88	1276
167	0	0	0	0.44	5.25	945	4.99	994
212	0	0	0	0.44	5.95	834	5.88	844

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	5.9	2656	5.23	3000*
20	0	0	0	0.44	3.53	2490	2.95	2986
30	0	0	0	0.44	3.87	2272	3.16	2782
40	0	0	0	0.44	4.24	2078	3.4	2586
50	0	0	0	0.44	4.62	1907	3.67	2399
60	0	0	0	0.44	5.01	1759	3.96	2223
70	0	0	0	0.44	5.4	1630	4.27	2061
80	0	0	0	0.44	5.8	1519	4.6	1913
90	0	0	0	0.44	6.19	1422	4.95	1779
100	0	0	0	0.44	6.58	1339	5.3	1660
110	0	0	0	0.44	6.96	1266	5.67	1554
120	0	0	0	0.44	7.31	1206	6.03	1461
130	0	0	0	0.44	7.5	1175	6.39	1378
167	0	0	0	0.44	8.2	1075	7.7	1145
212	0	0	0	0.44	9.04	975	8.96	984

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.153

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.783	8.96	2735	8.17	3000*
20	0	0	0	0.44	6.07	2267	5.13	2679
30	0	0	0	0.44	6.52	2111	5.47	2513
40	0	0	0	0.44	6.98	1972	5.83	2358
50	0	0	0	0.44	7.44	1851	6.21	2214
60	0	0	0	0.44	7.9	1743	6.61	2083
70	0	0	0	0.44	8.35	1648	7.01	1962
80	0	0	0	0.44	8.8	1564	7.42	1853
90	0	0	0	0.44	9.24	1490	7.84	1755
100	0	0	0	0.44	9.68	1423	8.26	1666
110	0	0	0	0.44	10.1	1363	8.68	1586
120	0	0	0	0.44	10.52	1310	9.09	1514
130	0	0	0	0.44	10.89	1264	9.5	1449
167	0	0	0	0.44	11.7	1177	10.97	1256
212	0	0	0	0.44	12.67	1088	12.58	1096

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-8
150.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-11
175.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-11	1-0	1-3
200.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-4	0-4
100.00	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-7	0-7	0-8
125.00	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-10	0-11	1-0
150.00	0-5	0-5	0-6	0-7	0-8	0-10	1-0	1-3	1-4	1-5
175.00	0-6	0-7	0-8	0-9	0-11	1-2	1-5	1-8	1-10	2-0
200.00	0-8	0-9	0-11	1-0	1-3	1-6	1-10	2-2	2-4	2-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.155

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5
125.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-6	0-7
150.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
175.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2
200.00	0-7	0-8	0-9	0-9	0-10	0-11	1-1	1-2	1-4	1-6
225.00	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-11
250.00	1-0	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-1	2-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7
125.00	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10
150.00	0-5	0-6	0-6	0-7	0-8	0-10	0-11	1-1	1-2	1-3
175.00	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-7	1-8
200.00	0-9	0-10	0-11	1-1	1-3	1-5	1-8	1-10	2-1	2-2
225.00	0-11	1-0	1-2	1-4	1-7	1-10	2-1	2-4	2-8	2-9
250.00	1-2	1-3	1-5	1-8	1-11	2-3	2-7	2-11	3-3	3-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.156

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
175.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
200.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6
225.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10
250.00	1-1	1-1	1-3	1-4	1-5	1-7	1-9	1-11	2-1	2-3
275.00	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-4	2-6	2-9
300.00	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-9	3-0	3-3
325.00	1-9	1-11	2-1	2-3	2-5	2-8	2-11	3-2	3-6	3-10
350.00	2-1	2-2	2-5	2-7	2-10	3-1	3-5	3-9	4-1	4-6
375.00	2-4	2-6	2-9	3-0	3-3	3-6	3-11	4-3	4-8	5-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1
175.00	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-3	1-5	1-6
200.00	0-10	0-11	1-0	1-1	1-3	1-5	1-6	1-8	1-10	1-11
225.00	1-0	1-1	1-3	1-5	1-7	1-9	1-11	2-1	2-3	2-5
250.00	1-3	1-5	1-7	1-9	1-11	2-2	2-4	2-7	2-10	3-0
275.00	1-6	1-8	1-11	2-1	2-4	2-7	2-10	3-2	3-5	3-8
300.00	1-10	2-0	2-3	2-6	2-9	3-1	3-5	3-9	4-1	4-4
325.00	2-1	2-4	2-7	2-11	3-3	3-8	4-0	4-5	4-9	5-1
350.00	2-5	2-9	3-0	3-5	3-9	4-3	4-8	5-1	5-6	5-11
375.00	2-10	3-1	3-6	3-11	4-4	4-10	5-4	5-10	6-4	6-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.157

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
225.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-10
250.00	1-2	1-3	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-3
275.00	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-4	2-6	2-8
300.00	1-8	1-9	1-11	2-1	2-3	2-5	2-7	2-9	3-0	3-2
325.00	1-11	2-1	2-3	2-5	2-7	2-10	3-0	3-3	3-6	3-9
350.00	2-3	2-5	2-7	2-10	3-0	3-3	3-6	3-9	4-1	4-4
375.00	2-7	2-9	3-0	3-3	3-6	3-9	4-1	4-4	4-8	5-0
400.00	2-11	3-2	3-5	3-8	4-0	4-3	4-7	4-11	5-4	5-8
425.00	3-4	3-7	3-10	4-2	4-6	4-10	5-2	5-7	6-0	6-5
450.00	3-9	4-0	4-4	4-8	5-0	5-5	5-10	6-3	6-9	7-2
475.00	4-2	4-6	4-10	5-2	5-7	6-0	6-6	7-0	7-6	8-0
500.00	4-7	4-11	5-4	5-9	6-2	6-8	7-2	7-9	8-3	8-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-9
225.00	1-1	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-2
250.00	1-5	1-6	1-8	1-10	1-11	2-1	2-3	2-5	2-7	2-9
275.00	1-8	1-10	2-0	2-2	2-4	2-7	2-9	2-11	3-1	3-3
300.00	2-0	2-2	2-5	2-7	2-10	3-0	3-3	3-6	3-8	3-11
325.00	2-4	2-7	2-10	3-1	3-4	3-7	3-10	4-1	4-4	4-7
350.00	2-8	3-0	3-3	3-6	3-10	4-2	4-5	4-9	5-0	5-4
375.00	3-1	3-5	3-9	4-1	4-5	4-9	5-1	5-5	5-9	6-1
400.00	3-6	3-10	4-3	4-7	5-0	5-5	5-10	6-2	6-7	7-0
425.00	4-0	4-4	4-9	5-3	5-8	6-1	6-7	7-0	7-5	7-10
450.00	4-6	4-11	5-4	5-10	6-4	6-10	7-4	7-10	8-4	8-10
475.00	5-0	5-6	6-0	6-6	7-1	7-7	8-2	8-9	9-3	9-10
500.00	5-6	6-1	6-7	7-3	7-10	8-5	9-1	9-8	10-3	10-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.158

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-3	1-4	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-2
275.00	1-7	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-6	2-7
300.00	1-10	2-0	2-1	2-3	2-5	2-6	2-8	2-10	3-0	3-1
325.00	2-2	2-4	2-6	2-7	2-9	3-0	3-2	3-4	3-6	3-8
350.00	2-6	2-8	2-10	3-1	3-3	3-5	3-8	3-10	4-1	4-3
375.00	2-11	3-1	3-3	3-6	3-9	3-11	4-2	4-5	4-8	4-11
400.00	3-3	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-7
425.00	3-9	3-11	4-3	4-6	4-9	5-1	5-4	5-8	6-0	6-3
450.00	4-2	4-5	4-9	5-0	5-4	5-8	6-0	6-4	6-8	7-0
475.00	4-8	4-11	5-3	5-7	6-0	6-4	6-8	7-1	7-5	7-10
500.00	5-2	5-6	5-10	6-3	6-7	7-0	7-5	7-10	8-3	8-8
525.00	5-8	6-0	6-5	6-10	7-3	7-9	8-2	8-8	9-1	9-7
550.00	6-3	6-7	7-1	7-6	8-0	8-6	9-0	9-6	10-0	10-6
575.00	6-9	7-3	7-9	8-3	8-9	9-3	9-10	10-4	10-11	11-6
600.00	7-5	7-11	8-5	8-11	9-6	10-1	10-8	11-4	11-11	12-6
625.00	8-0	8-7	9-1	9-9	10-4	10-11	11-7	12-3	12-11	13-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-6	1-8	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-6
275.00	1-10	2-0	2-1	2-3	2-5	2-6	2-8	2-10	2-11	3-1
300.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
325.00	2-7	2-9	2-11	3-2	3-4	3-6	3-9	3-11	4-1	4-3
350.00	3-0	3-2	3-5	3-8	3-10	4-1	4-4	4-6	4-9	4-11
375.00	3-5	3-8	3-11	4-2	4-5	4-8	4-11	5-2	5-5	5-8
400.00	3-11	4-2	4-6	4-9	5-1	5-4	5-8	5-11	6-2	6-6
425.00	4-5	4-9	5-0	5-4	5-8	6-0	6-4	6-8	7-0	7-4
450.00	4-11	5-3	5-8	6-0	6-5	6-9	7-2	7-6	7-10	8-2
475.00	5-6	5-11	6-4	6-9	7-2	7-6	7-11	8-4	8-9	9-1
500.00	6-1	6-6	7-0	7-5	7-11	8-4	8-10	9-3	9-8	10-1
525.00	6-8	7-2	7-8	8-2	8-8	9-3	9-8	10-2	10-8	11-2
550.00	7-4	7-11	8-5	9-0	9-7	10-1	10-8	11-2	11-9	12-3
575.00	8-0	8-7	9-3	9-10	10-5	11-1	11-8	12-3	12-10	13-4
600.00	8-9	9-5	10-1	10-9	11-4	12-0	12-8	13-4	13-11	14-7
625.00	9-6	10-2	10-11	11-7	12-4	13-1	13-9	14-5	15-2	15-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.159

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.783	0.99	991	0.98	1000*
0	0	0	0	0.44	0.52	1063	0.52	1063
30	0	0	0	0.44	0.95	576	0.91	604
40	0	0	0	0.44	1.11	497	1.06	521
50	0	0	0	0.44	1.25	440	1.19	461
60	0	0	0	0.44	1.39	397	1.33	415
70	0	0	0	0.44	1.51	364	1.45	379
80	0	0	0	0.44	1.63	338	1.57	351
90	0	0	0	0.44	1.7	325	1.68	327
100	0	0	0	0.44	1.77	312	1.77	312
110	0	0	0	0.44	1.83	300	1.83	300
120	0	0	0	0.44	1.9	290	1.9	290
130	0	0	0	0.44	1.96	281	1.96	281
167	0	0	0	0.44	2.18	253	2.18	253
212	0	0	0	0.44	2.43	227	2.43	227

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.783	3.97	988	3.92	1000*
0	0	0	0	0.44	3.32	663	3.25	677
30	0	0	0	0.44	3.93	561	3.84	574
40	0	0	0	0.44	4.11	536	4.02	548
50	0	0	0	0.44	4.29	513	4.19	525
60	0	0	0	0.44	4.47	493	4.37	505
70	0	0	0	0.44	4.64	475	4.53	487
80	0	0	0	0.44	4.8	459	4.69	470
90	0	0	0	0.44	4.95	445	4.85	455
100	0	0	0	0.44	5.05	437	5	441
110	0	0	0	0.44	5.15	428	5.15	428
120	0	0	0	0.44	5.25	420	5.25	420
130	0	0	0	0.44	5.34	413	5.34	413
167	0	0	0	0.44	5.68	389	5.68	389
212	0	0	0	0.44	6.07	364	6.07	364

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.160

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.783	8.91	993	8.84	1000*
0	0	0	0	0.44	8.25	602	8.16	609
30	0	0	0	0.44	8.86	561	8.75	568
40	0	0	0	0.44	9.06	548	8.94	555
50	0	0	0	0.44	9.25	537	9.13	544
60	0	0	0	0.44	9.44	526	9.32	533
70	0	0	0	0.44	9.63	516	9.5	523
80	0	0	0	0.44	9.81	507	9.68	514
90	0	0	0	0.44	9.99	498	9.85	505
100	0	0	0	0.44	10.13	491	10.03	496
110	0	0	0	0.44	10.24	486	10.2	488
120	0	0	0	0.44	10.35	480	10.35	480
130	0	0	0	0.44	10.47	475	10.47	475
167	0	0	0	0.44	10.87	458	10.87	458
212	0	0	0	0.44	11.34	439	11.34	439

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.783	15.83	996	15.76	1000*
0	0	0	0	0.44	15.17	583	15.07	587
30	0	0	0	0.44	15.79	561	15.67	565
40	0	0	0	0.44	15.99	554	15.87	558
50	0	0	0	0.44	16.19	547	16.06	552
60	0	0	0	0.44	16.38	541	16.25	545
70	0	0	0	0.44	16.58	535	16.44	539
80	0	0	0	0.44	16.77	529	16.62	533
90	0	0	0	0.44	16.96	523	16.81	527
100	0	0	0	0.44	17.12	518	16.99	522
110	0	0	0	0.44	17.24	514	17.18	516
120	0	0	0	0.44	17.36	511	17.36	511
130	0	0	0	0.44	17.49	507	17.49	507
167	0	0	0	0.44	17.93	495	17.93	495
212	0	0	0	0.44	18.45	481	18.45	481

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.161

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.783	24.79	997	24.72	1000*
0	0	0	0	0.44	24.13	575	24.03	578
30	0	0	0	0.44	24.75	561	24.62	564
40	0	0	0	0.44	24.95	557	24.82	559
50	0	0	0	0.44	25.15	552	25.02	555
60	0	0	0	0.44	25.35	548	25.21	551
70	0	0	0	0.44	25.54	544	25.4	547
80	0	0	0	0.44	25.74	540	25.59	543
90	0	0	0	0.44	25.94	536	25.78	539
100	0	0	0	0.44	26.12	532	25.97	535
110	0	0	0	0.44	26.24	530	26.16	531
120	0	0	0	0.44	26.37	527	26.35	528
130	0	0	0	0.44	26.5	525	26.5	525
167	0	0	0	0.44	26.96	516	26.96	516
212	0	0	0	0.44	27.51	506	27.51	506

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.162

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-0
100.00	0-9	0-11	1-1	1-2	1-4	1-5	1-7	1-8	1-9	1-10
125.00	1-2	1-5	1-8	1-10	2-1	2-3	2-5	2-8	2-9	2-10
150.00	1-9	2-1	2-5	2-8	3-0	3-3	3-6	3-9	4-0	4-2
175.00	2-4	2-9	3-3	3-8	4-1	4-5	4-10	5-2	5-5	5-7
200.00	3-1	3-8	4-3	4-9	5-4	5-10	6-3	6-9	7-1	7-4

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-0
100.00	0-10	0-11	1-1	1-3	1-5	1-6	1-8	1-8	1-9	1-10
125.00	1-3	1-6	1-9	1-11	2-2	2-4	2-7	2-8	2-9	2-10
150.00	1-10	2-2	2-6	2-10	3-1	3-5	3-8	3-10	4-0	4-2
175.00	2-5	2-11	3-5	3-10	4-3	4-8	5-0	5-2	5-5	5-7
200.00	3-2	3-10	4-5	5-0	5-7	6-1	6-6	6-10	7-1	7-4

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SHEET 163 OF 359

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.163

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-3
125.00	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11	2-0
150.00	2-1	2-2	2-3	2-4	2-5	2-7	2-8	2-9	2-10	2-11
175.00	2-10	2-11	3-1	3-3	3-4	3-6	3-7	3-9	3-10	3-11
200.00	3-8	3-10	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-2
225.00	4-7	4-10	5-1	5-4	5-6	5-9	5-11	6-2	6-4	6-6
250.00	5-8	6-0	6-3	6-7	6-10	7-1	7-4	7-7	7-10	8-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-3
125.00	1-6	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-0
150.00	2-1	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
175.00	2-10	3-0	3-2	3-3	3-5	3-7	3-8	3-10	3-10	3-11
200.00	3-9	3-11	4-1	4-4	4-6	4-8	4-10	4-11	5-1	5-2
225.00	4-9	5-0	5-3	5-5	5-8	5-10	6-1	6-3	6-5	6-6
250.00	5-10	6-2	6-5	6-9	7-0	7-3	7-6	7-9	7-11	8-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.164

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-2	2-3	2-3	2-4	2-4	2-5	2-6	2-6	2-7
175.00	2-11	3-0	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-6
200.00	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-5	4-6
225.00	4-10	4-11	5-0	5-2	5-3	5-4	5-5	5-6	5-8	5-9
250.00	5-11	6-1	6-3	6-4	6-6	6-7	6-9	6-10	7-0	7-1
275.00	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-3	8-5	8-7
300.00	8-7	8-9	8-11	9-2	9-4	9-6	9-8	9-10	10-0	10-2
325.00	10-1	10-3	10-6	10-9	10-11	11-2	11-4	11-7	11-9	12-0
350.00	11-8	11-11	12-2	12-5	12-8	12-11	13-2	13-5	13-8	13-11
375.00	13-5	13-8	14-0	14-3	14-7	14-10	15-2	15-5	15-8	15-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-3	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-7
175.00	2-11	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-5	3-6
200.00	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7
225.00	4-10	5-0	5-1	5-2	5-4	5-5	5-6	5-7	5-8	5-9
250.00	6-0	6-2	6-3	6-5	6-7	6-8	6-10	6-11	7-0	7-1
275.00	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-6	8-7
300.00	8-8	8-10	9-1	9-3	9-5	9-8	9-10	10-0	10-2	10-3
325.00	10-2	10-5	10-8	10-10	11-1	11-4	11-6	11-9	11-11	12-0
350.00	11-10	12-1	12-4	12-7	12-10	13-1	13-4	13-7	13-9	13-11
375.00	13-7	13-10	14-2	14-6	14-9	15-1	15-4	15-7	15-10	16-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.165

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-10	3-11	4-0	4-0	4-1	4-1	4-2	4-2	4-3	4-3
225.00	4-11	4-11	5-0	5-1	5-2	5-2	5-3	5-4	5-4	5-5
250.00	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-8
275.00	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1
300.00	8-8	8-10	8-11	9-0	9-2	9-3	9-4	9-5	9-7	9-8
325.00	10-3	10-4	10-6	10-7	10-9	10-10	11-0	11-1	11-3	11-4
350.00	11-10	12-0	12-2	12-3	12-5	12-7	12-9	12-10	13-0	13-2
375.00	13-7	13-9	13-11	14-1	14-3	14-5	14-7	14-9	14-11	15-1
400.00	15-6	15-8	15-10	16-1	16-3	16-5	16-7	16-10	17-0	17-2
425.00	17-6	17-8	17-11	18-2	18-4	18-7	18-9	19-0	19-2	19-5
450.00	19-7	19-10	20-1	20-4	20-7	20-10	21-1	21-3	21-6	21-9
475.00	21-10	22-1	22-5	22-8	22-11	23-2	23-6	23-9	24-0	24-3
500.00	24-2	24-6	24-10	25-1	25-5	25-9	26-0	26-4	26-7	26-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-11	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-3	4-4
225.00	4-11	5-0	5-1	5-1	5-2	5-3	5-4	5-4	5-5	5-5
250.00	6-1	6-2	6-3	6-4	6-5	6-6	6-6	6-7	6-8	6-9
275.00	7-4	7-5	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2
300.00	8-9	8-10	9-0	9-1	9-2	9-4	9-5	9-6	9-7	9-8
325.00	10-3	10-5	10-7	10-8	10-10	10-11	11-1	11-2	11-4	11-4
350.00	11-11	12-1	12-3	12-5	12-6	12-8	12-10	13-0	13-1	13-2
375.00	13-8	13-10	14-1	14-3	14-5	14-7	14-9	14-11	15-1	15-2
400.00	15-7	15-9	16-0	16-2	16-5	16-7	16-9	16-11	17-1	17-3
425.00	17-7	17-10	18-1	18-3	18-6	18-9	18-11	19-2	19-4	19-6
450.00	19-9	20-0	20-3	20-6	20-9	21-0	21-3	21-6	21-8	21-10
475.00	22-0	22-3	22-7	22-10	23-1	23-5	23-8	23-11	24-2	24-4
500.00	24-5	24-8	25-0	25-4	25-8	25-11	26-3	26-6	26-9	27-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.166

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-1	6-2	6-2	6-3	6-3	6-4	6-5	6-5	6-6	6-6
275.00	7-4	7-5	7-6	7-7	7-7	7-8	7-9	7-9	7-10	7-11
300.00	8-9	8-10	8-11	9-0	9-1	9-1	9-2	9-3	9-4	9-5
325.00	10-4	10-5	10-6	10-7	10-8	10-9	10-9	10-10	10-11	11-0
350.00	11-11	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-10
375.00	13-9	13-10	13-11	14-1	14-2	14-3	14-4	14-6	14-7	14-8
400.00	15-7	15-9	15-10	16-0	16-1	16-3	16-4	16-6	16-7	16-9
425.00	17-8	17-9	17-11	18-1	18-2	18-4	18-6	18-7	18-9	18-11
450.00	19-9	19-11	20-1	20-3	20-5	20-7	20-9	20-10	21-0	21-2
475.00	22-0	22-3	22-5	22-7	22-9	22-11	23-1	23-3	23-5	23-7
500.00	24-5	24-7	24-10	25-0	25-3	25-5	25-7	25-9	26-0	26-2
525.00	26-11	27-2	27-4	27-7	27-10	28-0	28-3	28-5	28-8	28-10
550.00	29-7	29-10	30-1	30-3	30-6	30-9	31-0	31-3	31-5	31-8
575.00	32-4	32-7	32-10	33-1	33-5	33-8	33-11	34-2	34-5	34-8
600.00	35-3	35-6	35-10	36-1	36-4	36-8	36-11	37-2	37-6	37-9
625.00	38-3	38-7	38-10	39-2	39-6	39-9	40-1	40-4	40-8	41-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-1	6-2	6-3	6-3	6-4	6-4	6-5	6-6	6-6	6-7
275.00	7-5	7-6	7-6	7-7	7-8	7-9	7-9	7-10	7-11	7-11
300.00	8-10	8-11	9-0	9-0	9-1	9-2	9-3	9-4	9-5	9-5
325.00	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1
350.00	12-0	12-1	12-2	12-4	12-5	12-6	12-7	12-8	12-9	12-10
375.00	13-9	13-11	14-0	14-2	14-3	14-4	14-5	14-7	14-8	14-9
400.00	15-8	15-10	15-11	16-1	16-2	16-4	16-5	16-7	16-8	16-9
425.00	17-9	17-10	18-0	18-2	18-4	18-5	18-7	18-9	18-10	18-11
450.00	19-10	20-0	20-2	20-4	20-6	20-8	20-10	21-0	21-2	21-3
475.00	22-2	22-4	22-6	22-8	22-10	23-1	23-3	23-5	23-7	23-8
500.00	24-7	24-9	24-11	25-2	25-4	25-7	25-9	25-11	26-1	26-3
525.00	27-1	27-3	27-6	27-9	27-11	28-2	28-5	28-7	28-10	28-11
550.00	29-9	30-0	30-2	30-5	30-8	30-11	31-2	31-5	31-8	31-9
575.00	32-6	32-9	33-0	33-4	33-7	33-10	34-1	34-4	34-7	34-9
600.00	35-5	35-8	36-0	36-3	36-7	36-10	37-1	37-5	37-8	37-10
625.00	38-5	38-9	39-1	39-4	39-8	40-0	40-4	40-7	40-11	41-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.167

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.783	0.66	1473	0.65	1500*
0	0	0	0	0.44	0.3	1818	0.3	1818
30	0	0	0	0.44	0.55	996	0.51	1085
40	0	0	0	0.44	0.69	794	0.62	887
50	0	0	0	0.44	0.85	649	0.75	729
60	0	0	0	0.44	1	548	0.9	612
70	0	0	0	0.44	1.15	477	1.04	527
80	0	0	0	0.44	1.29	425	1.19	464
90	0	0	0	0.44	1.38	399	1.32	418
100	0	0	0	0.44	1.45	379	1.44	381
110	0	0	0	0.44	1.53	360	1.53	360
120	0	0	0	0.44	1.6	344	1.6	344
130	0	0	0	0.44	1.67	330	1.67	330
167	0	0	0	0.44	1.91	288	1.91	288
212	0	0	0	0.44	2.18	252	2.18	252

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.783	2.7	1454	2.61	1500*
0	0	0	0	0.44	1.76	1248	1.66	1322
30	0	0	0	0.44	2.51	879	2.33	946
40	0	0	0	0.44	2.75	802	2.56	861
50	0	0	0	0.44	2.98	739	2.78	792
60	0	0	0	0.44	3.2	688	3	734
70	0	0	0	0.44	3.42	645	3.21	686
80	0	0	0	0.44	3.62	608	3.42	645
90	0	0	0	0.44	3.82	577	3.61	610
100	0	0	0	0.44	3.97	555	3.8	579
110	0	0	0	0.44	4.08	540	3.99	553
120	0	0	0	0.44	4.19	526	4.17	529
130	0	0	0	0.44	4.3	513	4.3	513
167	0	0	0	0.44	4.69	470	4.69	470
212	0	0	0	0.44	5.13	430	5.13	430

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.168

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.783	6.02	1467	5.88	1500*
0	0	0	0	0.44	4.93	1006	4.71	1051
30	0	0	0	0.44	5.8	855	5.55	893
40	0	0	0	0.44	6.07	817	5.82	852
50	0	0	0	0.44	6.34	783	6.08	816
60	0	0	0	0.44	6.59	752	6.33	783
70	0	0	0	0.44	6.84	725	6.58	754
80	0	0	0	0.44	7.09	700	6.82	728
90	0	0	0	0.44	7.32	678	7.05	704
100	0	0	0	0.44	7.55	657	7.28	682
110	0	0	0	0.44	7.72	643	7.5	661
120	0	0	0	0.44	7.85	632	7.72	643
130	0	0	0	0.44	7.99	621	7.94	626
167	0	0	0	0.44	8.48	586	8.48	586
212	0	0	0	0.44	9.05	549	9.05	549

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.783	10.64	1477	10.47	1500*
0	0	0	0	0.44	9.5	928	9.25	954
30	0	0	0	0.44	10.4	848	10.12	872
40	0	0	0	0.44	10.69	826	10.4	848
50	0	0	0	0.44	10.97	805	10.68	827
60	0	0	0	0.44	11.25	785	10.95	806
70	0	0	0	0.44	11.52	767	11.21	787
80	0	0	0	0.44	11.78	750	11.47	770
90	0	0	0	0.44	12.04	734	11.73	753
100	0	0	0	0.44	12.29	718	11.98	737
110	0	0	0	0.44	12.54	705	12.23	722
120	0	0	0	0.44	12.69	696	12.47	708
130	0	0	0	0.44	12.84	688	12.71	695
167	0	0	0	0.44	13.4	659	13.4	659
212	0	0	0	0.44	14.06	629	14.06	629

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.169

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.783	16.57	1484	16.39	1500*
0	0	0	0	0.44	15.42	895	15.14	911
30	0	0	0	0.44	16.33	846	16.03	861
40	0	0	0	0.44	16.62	831	16.32	846
50	0	0	0	0.44	16.91	817	16.6	832
60	0	0	0	0.44	17.2	803	16.88	818
70	0	0	0	0.44	17.48	790	17.15	805
80	0	0	0	0.44	17.76	778	17.43	793
90	0	0	0	0.44	18.03	767	17.69	781
100	0	0	0	0.44	18.3	755	17.96	770
110	0	0	0	0.44	18.57	745	18.22	759
120	0	0	0	0.44	18.77	737	18.48	748
130	0	0	0	0.44	18.93	730	18.74	738
167	0	0	0	0.44	19.54	708	19.54	708
212	0	0	0	0.44	20.26	683	20.26	683

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10
100.00	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-4	1-5	1-6
125.00	0-8	0-10	1-0	1-2	1-5	1-8	1-10	2-1	2-3	2-5
150.00	0-11	1-2	1-5	1-8	2-0	2-4	2-8	3-0	3-3	3-5
175.00	1-3	1-7	1-11	2-4	2-9	3-2	3-8	4-0	4-5	4-8
200.00	1-8	2-0	2-6	3-0	3-7	4-2	4-9	5-3	5-9	6-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9	0-10	0-10
100.00	0-5	0-7	0-8	0-10	1-0	1-2	1-4	1-5	1-5	1-6
125.00	0-8	0-10	1-1	1-4	1-7	1-10	2-0	2-2	2-3	2-5
150.00	1-0	1-3	1-7	1-11	2-3	2-7	2-11	3-1	3-3	3-5
175.00	1-4	1-8	2-1	2-7	3-1	3-6	4-0	4-3	4-5	4-8
200.00	1-9	2-3	2-9	3-5	4-0	4-7	5-2	5-6	5-10	6-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.171

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0
125.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
150.00	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-0	2-2	2-3
175.00	1-7	1-9	1-11	2-2	2-4	2-5	2-7	2-9	2-11	3-1
200.00	2-1	2-4	2-7	2-9	3-0	3-3	3-5	3-7	3-10	4-0
225.00	2-8	2-11	3-3	3-6	3-10	4-1	4-4	4-7	4-10	5-1
250.00	3-3	3-8	4-0	4-4	4-8	5-0	5-4	5-8	5-11	6-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0
125.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7
150.00	1-3	1-5	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-4
175.00	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-1
200.00	2-3	2-6	2-9	3-0	3-2	3-5	3-7	3-10	4-0	4-1
225.00	2-10	3-2	3-6	3-9	4-1	4-4	4-7	4-10	5-0	5-2
250.00	3-6	3-11	4-3	4-8	5-0	5-4	5-8	6-0	6-2	6-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.172

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Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-5	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-10
175.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
200.00	2-4	2-6	2-7	2-8	2-10	2-11	3-0	3-2	3-3	3-4
225.00	3-0	3-1	3-3	3-5	3-7	3-8	3-10	4-0	4-1	4-3
250.00	3-8	3-10	4-0	4-3	4-5	4-7	4-9	4-11	5-1	5-3
275.00	4-5	4-8	4-11	5-1	5-4	5-6	5-9	5-11	6-1	6-4
300.00	5-3	5-7	5-10	6-1	6-4	6-7	6-10	7-1	7-3	7-6
325.00	6-2	6-6	6-10	7-2	7-5	7-9	8-0	8-3	8-7	8-10
350.00	7-2	7-7	7-11	8-3	8-7	8-11	9-3	9-7	9-11	10-3
375.00	8-3	8-8	9-1	9-6	9-11	10-3	10-8	11-0	11-5	11-9

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11
175.00	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-7
200.00	2-5	2-7	2-8	2-10	2-11	3-0	3-2	3-3	3-4	3-5
225.00	3-1	3-3	3-5	3-7	3-8	3-10	4-0	4-1	4-3	4-4
250.00	3-10	4-0	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-4
275.00	4-8	4-10	5-1	5-4	5-6	5-9	5-11	6-2	6-4	6-6
300.00	5-6	5-10	6-1	6-4	6-7	6-10	7-1	7-4	7-7	7-9
325.00	6-6	6-10	7-2	7-5	7-9	8-0	8-4	8-7	8-10	9-1
350.00	7-6	7-11	8-3	8-8	9-0	9-4	9-8	10-0	10-3	10-6
375.00	8-7	9-1	9-6	9-11	10-4	10-8	11-1	11-5	11-10	12-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.173

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-5	2-6	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-1
225.00	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-8	3-9	3-10
250.00	3-10	3-11	4-1	4-2	4-3	4-5	4-6	4-7	4-8	4-9
275.00	4-8	4-9	4-11	5-1	5-2	5-4	5-5	5-6	5-8	5-9
300.00	5-6	5-8	5-10	6-0	6-2	6-4	6-5	6-7	6-9	6-10
325.00	6-6	6-8	6-10	7-1	7-3	7-5	7-7	7-9	7-11	8-1
350.00	7-6	7-9	8-0	8-2	8-5	8-7	8-9	9-0	9-2	9-4
375.00	8-8	8-11	9-2	9-5	9-7	9-10	10-1	10-4	10-6	10-9
400.00	9-10	10-1	10-5	10-8	10-11	11-3	11-6	11-9	12-0	12-3
425.00	11-1	11-5	11-9	12-1	12-4	12-8	12-11	13-3	13-6	13-10
450.00	12-5	12-10	13-2	13-6	13-10	14-2	14-6	14-10	15-2	15-6
475.00	13-10	14-3	14-8	15-1	15-5	15-10	16-2	16-7	16-11	17-3
500.00	15-5	15-10	16-3	16-8	17-1	17-6	17-11	18-4	18-9	19-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-2
225.00	3-2	3-3	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
250.00	3-11	4-1	4-2	4-3	4-5	4-6	4-7	4-8	4-10	4-11
275.00	4-9	4-11	5-1	5-2	5-4	5-5	5-7	5-8	5-10	5-11
300.00	5-8	5-10	6-0	6-2	6-4	6-6	6-7	6-9	6-11	7-1
325.00	6-8	6-10	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-3
350.00	7-9	8-0	8-2	8-5	8-7	8-10	9-0	9-3	9-5	9-7
375.00	8-11	9-2	9-5	9-8	9-11	10-1	10-4	10-7	10-10	11-0
400.00	10-1	10-5	10-8	11-0	11-3	11-6	11-9	12-0	12-4	12-6
425.00	11-5	11-9	12-1	12-5	12-8	13-0	13-4	13-7	13-11	14-2
450.00	12-10	13-2	13-6	13-11	14-3	14-7	14-11	15-3	15-7	15-10
475.00	14-3	14-8	15-1	15-6	15-10	16-3	16-7	17-0	17-4	17-8
500.00	15-10	16-3	16-9	17-2	17-7	18-0	18-5	18-10	19-3	19-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.174

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-6	4-7
275.00	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6
300.00	5-8	5-9	5-10	6-0	6-1	6-2	6-3	6-4	6-6	6-7
325.00	6-8	6-9	6-11	7-0	7-1	7-3	7-4	7-6	7-7	7-8
350.00	7-8	7-10	8-0	8-2	8-3	8-5	8-6	8-8	8-10	8-11
375.00	8-10	9-0	9-2	9-4	9-6	9-8	9-10	9-11	10-1	10-3
400.00	10-1	10-3	10-5	10-7	10-10	11-0	11-2	11-4	11-6	11-8
425.00	11-4	11-7	11-9	12-0	12-2	12-5	12-7	12-9	13-0	13-2
450.00	12-9	13-0	13-3	13-5	13-8	13-11	14-1	14-4	14-7	14-9
475.00	14-2	14-6	14-9	15-0	15-3	15-6	15-9	16-0	16-2	16-5
500.00	15-9	16-0	16-4	16-7	16-11	17-2	17-5	17-8	18-0	18-3
525.00	17-4	17-8	18-0	18-4	18-7	18-11	19-3	19-6	19-10	20-1
550.00	19-1	19-5	19-9	20-1	20-5	20-9	21-1	21-5	21-9	22-1
575.00	20-10	21-2	21-7	22-0	22-4	22-8	23-1	23-5	23-9	24-1
600.00	22-8	23-1	23-6	23-11	24-4	24-9	25-1	25-6	25-11	26-3
625.00	24-7	25-1	25-6	25-11	26-5	26-10	27-3	27-8	28-1	28-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-0	4-1	4-2	4-3	4-4	4-4	4-5	4-6	4-7	4-8
275.00	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7
300.00	5-9	5-10	6-0	6-1	6-2	6-3	6-5	6-6	6-7	6-8
325.00	6-9	6-11	7-0	7-2	7-3	7-5	7-6	7-7	7-9	7-10
350.00	7-10	8-0	8-2	8-3	8-5	8-7	8-8	8-10	9-0	9-1
375.00	9-0	9-2	9-4	9-6	9-8	9-10	10-0	10-2	10-3	10-5
400.00	10-3	10-5	10-8	10-10	11-0	11-2	11-4	11-6	11-8	11-11
425.00	11-7	11-10	12-0	12-3	12-5	12-7	12-10	13-0	13-3	13-5
450.00	13-0	13-3	13-6	13-8	13-11	14-2	14-5	14-7	14-10	15-0
475.00	14-6	14-9	15-0	15-3	15-6	15-9	16-0	16-3	16-6	16-9
500.00	16-0	16-4	16-7	16-11	17-2	17-6	17-9	18-0	18-4	18-7
525.00	17-8	18-0	18-4	18-8	19-0	19-3	19-7	19-11	20-2	20-6
550.00	19-5	19-9	20-1	20-6	20-10	21-2	21-6	21-10	22-2	22-6
575.00	21-3	21-7	22-0	22-5	22-9	23-2	23-6	23-10	24-3	24-7
600.00	23-1	23-6	23-11	24-4	24-9	25-2	25-7	26-0	26-4	26-9
625.00	25-1	25-6	26-0	26-5	26-11	27-4	27-9	28-2	28-7	29-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.175

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.783	0.51	1932	0.49	2000*
0	0	0	0	0.44	0.23	2410	0.23	2410
30	0	0	0	0.44	0.37	1472	0.34	1629
40	0	0	0	0.44	0.46	1183	0.4	1376
50	0	0	0	0.44	0.59	939	0.48	1140
60	0	0	0	0.44	0.73	752	0.59	931
70	0	0	0	0.44	0.89	620	0.72	763
80	0	0	0	0.44	1.04	528	0.87	636
90	0	0	0	0.44	1.14	484	1.01	544
100	0	0	0	0.44	1.21	454	1.15	477
110	0	0	0	0.44	1.29	427	1.29	427
120	0	0	0	0.44	1.36	403	1.36	403
130	0	0	0	0.44	1.44	383	1.44	383
167	0	0	0	0.44	1.7	324	1.7	324
212	0	0	0	0.44	1.99	277	1.99	277

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.783	2.06	1901	1.96	2000*
0	0	0	0	0.44	1.13	1954	1.06	2066
30	0	0	0	0.44	1.73	1269	1.53	1443
40	0	0	0	0.44	1.98	1113	1.73	1275
50	0	0	0	0.44	2.23	988	1.94	1133
60	0	0	0	0.44	2.48	889	2.17	1014
70	0	0	0	0.44	2.72	810	2.4	917
80	0	0	0	0.44	2.95	746	2.63	837
90	0	0	0	0.44	3.18	694	2.85	772
100	0	0	0	0.44	3.36	656	3.07	717
110	0	0	0	0.44	3.47	634	3.28	671
120	0	0	0	0.44	3.59	613	3.48	632
130	0	0	0	0.44	3.71	594	3.68	599
167	0	0	0	0.44	4.12	534	4.12	534
212	0	0	0	0.44	4.6	479	4.6	479

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.783	4.61	1915	4.41	2000*
0	0	0	0	0.44	3.2	1548	2.93	1687
30	0	0	0	0.44	4.18	1186	3.79	1306
40	0	0	0	0.44	4.5	1102	4.09	1211
50	0	0	0	0.44	4.81	1031	4.39	1129
60	0	0	0	0.44	5.11	970	4.68	1058
70	0	0	0	0.44	5.41	917	4.97	997
80	0	0	0	0.44	5.69	871	5.25	943
90	0	0	0	0.44	5.97	831	5.53	896
100	0	0	0	0.44	6.23	795	5.8	855
110	0	0	0	0.44	6.46	768	6.06	818
120	0	0	0	0.44	6.61	750	6.31	785
130	0	0	0	0.44	6.76	734	6.56	756
167	0	0	0	0.44	7.29	680	7.29	681
212	0	0	0	0.44	7.92	627	7.91	627

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.783	8.11	1934	7.84	2000*
0	0	0	0	0.44	6.51	1353	6.08	1448
30	0	0	0	0.44	7.63	1156	7.14	1234
40	0	0	0	0.44	7.98	1104	7.48	1178
50	0	0	0	0.44	8.33	1059	7.82	1127
60	0	0	0	0.44	8.66	1018	8.15	1081
70	0	0	0	0.44	8.99	981	8.47	1040
80	0	0	0	0.44	9.31	947	8.79	1003
90	0	0	0	0.44	9.62	917	9.1	969
100	0	0	0	0.44	9.93	889	9.41	938
110	0	0	0	0.44	10.22	863	9.7	909
120	0	0	0	0.44	10.46	844	9.99	883
130	0	0	0	0.44	10.63	830	10.28	858
167	0	0	0	0.44	11.26	784	11.25	785
212	0	0	0	0.44	12	736	11.99	737

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.177

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Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.783	12.58	1950	12.27	2000*
0	0	0	0	0.44	10.9	1264	10.39	1325
30	0	0	0	0.44	12.07	1142	11.52	1196
40	0	0	0	0.44	12.44	1108	11.89	1160
50	0	0	0	0.44	12.8	1077	12.24	1126
60	0	0	0	0.44	13.16	1048	12.59	1095
70	0	0	0	0.44	13.51	1021	12.94	1066
80	0	0	0	0.44	13.85	996	13.28	1038
90	0	0	0	0.44	14.19	972	13.61	1013
100	0	0	0	0.44	14.52	950	13.94	990
110	0	0	0	0.44	14.85	929	14.26	967
120	0	0	0	0.44	15.16	910	14.58	946
130	0	0	0	0.44	15.37	898	14.89	927
167	0	0	0	0.44	16.07	859	16	863
212	0	0	0	0.44	16.9	817	16.89	818

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.178

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9
100.00	0-3	0-4	0-5	0-6	0-7	0-9	0-10	1-0	1-2	1-3
125.00	0-5	0-6	0-7	0-9	0-11	1-2	1-4	1-7	1-10	2-0
150.00	0-8	0-9	0-11	1-1	1-4	1-7	1-11	2-3	2-7	2-11
175.00	0-11	1-0	1-3	1-6	1-10	2-3	2-8	3-1	3-6	3-11
200.00	1-2	1-4	1-7	1-11	2-4	2-11	3-6	4-1	4-7	5-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9
100.00	0-4	0-4	0-6	0-7	0-9	0-11	1-1	1-2	1-3	1-3
125.00	0-6	0-7	0-9	0-11	1-2	1-5	1-8	1-9	1-11	2-0
150.00	0-8	0-10	1-1	1-4	1-8	2-0	2-4	2-7	2-9	2-11
175.00	0-11	1-2	1-5	1-10	2-3	2-9	3-2	3-6	3-9	3-11
200.00	1-3	1-6	1-10	2-4	2-11	3-7	4-2	4-7	4-10	5-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.179

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10
125.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
150.00	0-9	0-10	1-0	1-1	1-3	1-4	1-6	1-7	1-9	1-10
175.00	1-0	1-2	1-4	1-6	1-8	1-10	2-0	2-2	2-4	2-6
200.00	1-4	1-6	1-9	1-11	2-2	2-5	2-8	2-10	3-1	3-3
225.00	1-8	1-11	2-2	2-6	2-9	3-0	3-4	3-7	3-11	4-2
250.00	2-1	2-5	2-8	3-0	3-5	3-9	4-1	4-6	4-10	5-2

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-10
125.00	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-4	1-4
150.00	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-9	1-11	1-11
175.00	1-2	1-4	1-6	1-8	1-11	2-1	2-3	2-5	2-7	2-8
200.00	1-6	1-9	2-0	2-3	2-6	2-9	2-11	3-2	3-4	3-6
225.00	1-11	2-2	2-6	2-10	3-2	3-5	3-9	4-0	4-3	4-5
250.00	2-4	2-9	3-1	3-6	3-10	4-3	4-7	5-0	5-3	5-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.180

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6
175.00	1-2	1-3	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-1
200.00	1-7	1-8	1-10	1-11	2-1	2-3	2-4	2-5	2-7	2-8
225.00	2-0	2-2	2-4	2-6	2-8	2-10	2-11	3-1	3-3	3-5
250.00	2-5	2-8	2-10	3-1	3-3	3-5	3-8	3-10	4-0	4-2
275.00	2-11	3-2	3-5	3-8	3-11	4-2	4-5	4-8	4-10	5-1
300.00	3-6	3-10	4-1	4-5	4-8	5-0	5-3	5-6	5-10	6-1
325.00	4-1	4-5	4-10	5-2	5-6	5-10	6-2	6-6	6-10	7-1
350.00	4-9	5-2	5-7	6-0	6-4	6-9	7-2	7-6	7-11	8-3
375.00	5-6	5-11	6-5	6-10	7-4	7-9	8-3	8-8	9-1	9-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7
175.00	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-2
200.00	1-9	1-10	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-10
225.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
250.00	2-8	2-11	3-1	3-4	3-7	3-9	3-11	4-2	4-4	4-6
275.00	3-3	3-6	3-9	4-0	4-4	4-6	4-9	5-0	5-3	5-5
300.00	3-10	4-2	4-6	4-10	5-1	5-5	5-8	6-0	6-3	6-6
325.00	4-6	4-11	5-3	5-8	6-0	6-4	6-8	7-0	7-4	7-7
350.00	5-3	5-8	6-1	6-7	6-11	7-4	7-9	8-1	8-6	8-10
375.00	6-0	6-6	7-0	7-6	8-0	8-5	8-11	9-4	9-9	10-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.181

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
225.00	2-2	2-3	2-4	2-6	2-7	2-8	2-9	2-11	3-0	3-1
250.00	2-8	2-9	2-11	3-1	3-2	3-4	3-5	3-7	3-8	3-9
275.00	3-3	3-4	3-6	3-8	3-10	4-0	4-2	4-4	4-5	4-7
300.00	3-10	4-0	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-5
325.00	4-6	4-9	4-11	5-2	5-5	5-7	5-10	6-0	6-2	6-5
350.00	5-2	5-6	5-9	6-0	6-3	6-6	6-9	7-0	7-2	7-5
375.00	6-0	6-3	6-7	6-10	7-2	7-5	7-9	8-0	8-3	8-6
400.00	6-10	7-2	7-6	7-10	8-2	8-6	8-9	9-1	9-5	9-8
425.00	7-8	8-1	8-5	8-10	9-2	9-7	9-11	10-3	10-7	10-11
450.00	8-7	9-0	9-6	9-11	10-4	10-9	11-2	11-6	11-11	12-3
475.00	9-7	10-1	10-7	11-0	11-6	11-11	12-5	12-10	13-3	13-8
500.00	10-7	11-2	11-8	12-3	12-9	13-3	13-9	14-3	14-8	15-2

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
225.00	2-4	2-5	2-6	2-8	2-9	2-10	2-11	3-1	3-2	3-3
250.00	2-10	3-0	3-1	3-3	3-5	3-6	3-8	3-9	3-11	4-0
275.00	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-7	4-8	4-10
300.00	4-1	4-3	4-6	4-8	4-10	5-1	5-3	5-5	5-7	5-9
325.00	4-10	5-0	5-3	5-6	5-9	5-11	6-2	6-4	6-7	6-9
350.00	5-7	5-10	6-1	6-4	6-8	6-11	7-2	7-4	7-7	7-10
375.00	6-5	6-8	7-0	7-4	7-7	7-11	8-2	8-5	8-9	9-0
400.00	7-3	7-8	8-0	8-4	8-8	9-0	9-4	9-7	9-11	10-3
425.00	8-2	8-7	9-0	9-5	9-9	10-2	10-6	10-10	11-2	11-7
450.00	9-2	9-8	10-1	10-6	11-0	11-5	11-9	12-2	12-7	12-11
475.00	10-3	10-9	11-3	11-9	12-3	12-8	13-2	13-7	14-0	14-5
500.00	11-4	11-11	12-6	13-0	13-6	14-1	14-7	15-0	15-6	16-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.182

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-9	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7
275.00	3-4	3-6	3-7	3-8	3-10	3-11	4-0	4-1	4-3	4-4
300.00	4-0	4-2	4-3	4-5	4-6	4-8	4-9	4-11	5-0	5-2
325.00	4-9	4-10	5-0	5-2	5-4	5-6	5-7	5-9	5-11	6-0
350.00	5-6	5-8	5-10	6-0	6-2	6-4	6-6	6-8	6-10	7-0
375.00	6-3	6-6	6-8	6-11	7-1	7-3	7-6	7-8	7-10	8-0
400.00	7-2	7-4	7-7	7-10	8-1	8-3	8-6	8-8	8-11	9-1
425.00	8-1	8-4	8-7	8-10	9-1	9-4	9-7	9-10	10-1	10-4
450.00	9-0	9-4	9-8	9-11	10-2	10-6	10-9	11-0	11-3	11-7
475.00	10-1	10-5	10-9	11-1	11-4	11-8	12-0	12-3	12-7	12-10
500.00	11-2	11-6	11-11	12-3	12-7	12-11	13-3	13-7	13-11	14-3
525.00	12-4	12-8	13-1	13-6	13-11	14-3	14-8	15-0	15-4	15-9
550.00	13-6	13-11	14-5	14-10	15-3	15-8	16-1	16-6	16-10	17-3
575.00	14-9	15-3	15-9	16-2	16-8	17-1	17-7	18-0	18-5	18-10
600.00	16-1	16-7	17-1	17-8	18-2	18-8	19-2	19-7	20-1	20-7
625.00	17-5	18-0	18-7	19-2	19-8	20-3	20-9	21-3	21-10	22-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-11	3-0	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-8
275.00	3-6	3-8	3-9	3-10	4-0	4-1	4-2	4-3	4-5	4-6
300.00	4-2	4-4	4-6	4-7	4-9	4-10	5-0	5-1	5-3	5-4
325.00	4-11	5-1	5-3	5-5	5-7	5-8	5-10	6-0	6-2	6-3
350.00	5-9	5-11	6-1	6-3	6-5	6-7	6-9	6-11	7-1	7-3
375.00	6-7	6-9	7-0	7-2	7-5	7-7	7-9	8-0	8-2	8-4
400.00	7-6	7-9	7-11	8-2	8-5	8-8	8-10	9-1	9-3	9-6
425.00	8-5	8-9	9-0	9-3	9-6	9-9	10-0	10-3	10-6	10-9
450.00	9-6	9-9	10-1	10-4	10-8	10-11	11-3	11-6	11-9	12-0
475.00	10-7	10-11	11-3	11-7	11-11	12-2	12-6	12-10	13-1	13-5
500.00	11-8	12-1	12-5	12-10	13-2	13-6	13-10	14-2	14-6	14-10
525.00	12-11	13-4	13-9	14-1	14-6	14-11	15-3	15-8	16-0	16-4
550.00	14-2	14-7	15-1	15-6	15-11	16-4	16-9	17-2	17-7	18-0
575.00	15-5	16-0	16-5	16-11	17-5	17-10	18-4	18-9	19-3	19-8
600.00	16-10	17-5	17-11	18-5	19-0	19-6	20-0	20-5	20-11	21-5
625.00	18-3	18-10	19-5	20-0	20-7	21-1	21-8	22-2	22-8	23-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.183

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.783	0.42	2342	0.39	2500*
0	0	0	0	0.44	0.19	2932	0.19	2942
30	0	0	0	0.44	0.29	1905	0.25	2167
40	0	0	0	0.44	0.35	1581	0.29	1904
50	0	0	0	0.44	0.43	1281	0.33	1642
60	0	0	0	0.44	0.54	1019	0.4	1387
70	0	0	0	0.44	0.68	811	0.48	1148
80	0	0	0	0.44	0.83	661	0.59	937
90	0	0	0	0.44	0.92	595	0.72	767
100	0	0	0	0.44	1	552	0.86	638
110	0	0	0	0.44	1.07	514	1.01	545
120	0	0	0	0.44	1.14	481	1.14	481
130	0	0	0	0.44	1.22	451	1.22	451
167	0	0	0	0.44	1.49	368	1.49	368
212	0	0	0	0.44	1.8	305	1.8	305

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.783	1.69	2322	1.57	2500*
0	0	0	0	0.44	0.86	2568	0.81	2717
30	0	0	0	0.44	1.29	1704	1.1	2006
40	0	0	0	0.44	1.49	1473	1.23	1784
50	0	0	0	0.44	1.72	1278	1.39	1578
60	0	0	0	0.44	1.97	1120	1.58	1392
70	0	0	0	0.44	2.21	994	1.79	1231
80	0	0	0	0.44	2.46	894	2.01	1095
90	0	0	0	0.44	2.71	814	2.24	983
100	0	0	0	0.44	2.9	759	2.47	891
110	0	0	0	0.44	3.02	729	2.7	816
120	0	0	0	0.44	3.14	702	2.92	753
130	0	0	0	0.44	3.26	676	3.14	702
167	0	0	0	0.44	3.69	597	3.68	598
212	0	0	0	0.44	4.2	525	4.19	526

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.184

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Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.783	3.77	2340	3.53	2500*
0	0	0	0	0.44	2.28	2170	2.06	2400
30	0	0	0	0.44	3.16	1568	2.71	1825
40	0	0	0	0.44	3.48	1422	2.98	1664
50	0	0	0	0.44	3.81	1300	3.26	1521
60	0	0	0	0.44	4.14	1198	3.55	1396
70	0	0	0	0.44	4.46	1112	3.85	1288
80	0	0	0	0.44	4.77	1039	4.15	1195
90	0	0	0	0.44	5.07	977	4.44	1115
100	0	0	0	0.44	5.37	923	4.74	1046
110	0	0	0	0.44	5.63	880	5.03	986
120	0	0	0	0.44	5.79	857	5.31	933
130	0	0	0	0.44	5.94	835	5.59	887
167	0	0	0	0.44	6.5	763	6.49	765
212	0	0	0	0.44	7.16	693	7.15	694

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.783	6.62	2368	6.27	2500*
0	0	0	0	0.44	4.69	1876	4.21	2090
30	0	0	0	0.44	5.88	1498	5.22	1686
40	0	0	0	0.44	6.27	1405	5.58	1579
50	0	0	0	0.44	6.66	1323	5.94	1483
60	0	0	0	0.44	7.03	1252	6.3	1399
70	0	0	0	0.44	7.4	1190	6.65	1324
80	0	0	0	0.44	7.76	1135	7.01	1257
90	0	0	0	0.44	8.12	1086	7.36	1198
100	0	0	0	0.44	8.46	1042	7.7	1145
110	0	0	0	0.44	8.79	1003	8.03	1097
120	0	0	0	0.44	9.08	971	8.36	1054
130	0	0	0	0.44	9.27	952	8.68	1016
167	0	0	0	0.44	9.94	888	9.81	899
212	0	0	0	0.44	10.72	823	10.7	825

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.185

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.783	10.24	2394	9.81	2500*
0	0	0	0	0.44	8.08	1704	7.38	1864
30	0	0	0	0.44	9.41	1463	8.62	1598
40	0	0	0	0.44	9.84	1399	9.03	1525
50	0	0	0	0.44	10.27	1342	9.43	1460
60	0	0	0	0.44	10.68	1290	9.83	1400
70	0	0	0	0.44	11.08	1243	10.23	1347
80	0	0	0	0.44	11.48	1201	10.62	1297
90	0	0	0	0.44	11.86	1162	11	1252
100	0	0	0	0.44	12.24	1126	11.38	1211
110	0	0	0	0.44	12.61	1093	11.75	1173
120	0	0	0	0.44	12.97	1063	12.11	1138
130	0	0	0	0.44	13.26	1040	12.46	1106
167	0	0	0	0.44	14.02	984	13.73	1005
212	0	0	0	0.44	14.92	925	14.88	927

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7
100.00	0-3	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-10	1-0
125.00	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-1	1-4	1-7
150.00	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-7	1-11	2-3
175.00	0-8	0-9	0-11	1-0	1-3	1-6	1-10	2-2	2-8	3-1
200.00	0-11	1-0	1-2	1-4	1-7	1-11	2-4	2-10	3-5	4-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-4	0-5	0-6	0-6	0-7	0-7
100.00	0-3	0-3	0-4	0-5	0-6	0-8	0-10	0-11	1-0	1-1
125.00	0-5	0-5	0-7	0-8	0-10	1-1	1-4	1-5	1-7	1-8
150.00	0-7	0-8	0-9	1-0	1-3	1-6	1-10	2-1	2-3	2-5
175.00	0-9	0-11	1-1	1-4	1-8	2-1	2-7	2-10	3-1	3-3
200.00	1-0	1-2	1-5	1-9	2-2	2-9	3-4	3-8	4-0	4-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.187

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8
125.00	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-1
150.00	0-7	0-7	0-8	0-9	0-11	1-0	1-2	1-3	1-5	1-6
175.00	0-9	0-10	0-11	1-1	1-3	1-4	1-6	1-9	1-11	2-1
200.00	1-0	1-1	1-3	1-5	1-7	1-9	2-0	2-3	2-6	2-8
225.00	1-3	1-5	1-7	1-9	2-0	2-3	2-7	2-10	3-2	3-5
250.00	1-6	1-9	1-11	2-2	2-6	2-10	3-2	3-6	3-10	4-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-9
125.00	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-2
150.00	0-8	0-9	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-8
175.00	0-10	1-0	1-2	1-4	1-6	1-8	1-11	2-1	2-3	2-4
200.00	1-1	1-3	1-6	1-9	2-0	2-3	2-6	2-8	2-11	3-0
225.00	1-5	1-8	1-11	2-2	2-6	2-10	3-1	3-5	3-8	3-10
250.00	1-9	2-0	2-4	2-8	3-1	3-6	3-10	4-3	4-6	4-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.188

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3
175.00	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-7	1-9
200.00	1-1	1-2	1-4	1-5	1-7	1-9	1-10	2-0	2-1	2-3
225.00	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-10
250.00	1-9	1-11	2-1	2-3	2-6	2-8	2-11	3-1	3-3	3-6
275.00	2-1	2-3	2-6	2-9	3-0	3-3	3-6	3-9	4-0	4-3
300.00	2-6	2-9	3-0	3-3	3-7	3-10	4-2	4-5	4-9	5-0
325.00	2-11	3-2	3-6	3-10	4-2	4-6	4-10	5-3	5-7	5-11
350.00	3-4	3-8	4-1	4-5	4-10	5-3	5-8	6-1	6-5	6-10
375.00	3-10	4-3	4-8	5-1	5-7	6-0	6-6	6-11	7-5	7-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
175.00	1-0	1-1	1-2	1-4	1-5	1-6	1-7	1-9	1-10	1-11
200.00	1-3	1-5	1-7	1-8	1-10	2-0	2-1	2-3	2-5	2-6
225.00	1-7	1-9	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2
250.00	2-0	2-2	2-5	2-8	2-10	3-1	3-4	3-6	3-9	3-11
275.00	2-5	2-8	2-11	3-2	3-6	3-9	4-0	4-3	4-6	4-9
300.00	2-10	3-2	3-6	3-10	4-2	4-5	4-9	5-1	5-4	5-8
325.00	3-4	3-8	4-1	4-6	4-10	5-3	5-7	5-11	6-4	6-7
350.00	3-10	4-4	4-9	5-2	5-8	6-1	6-6	6-11	7-4	7-8
375.00	4-5	4-11	5-5	5-11	6-6	7-0	7-5	7-11	8-5	8-10

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STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.189

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0
225.00	1-6	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-6
250.00	1-11	2-0	2-2	2-4	2-6	2-7	2-9	2-10	3-0	3-2
275.00	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10
300.00	2-9	2-11	3-2	3-4	3-7	3-9	3-11	4-2	4-4	4-6
325.00	3-3	3-5	3-8	3-11	4-2	4-5	4-8	4-10	5-1	5-4
350.00	3-9	4-0	4-3	4-7	4-10	5-1	5-4	5-8	5-11	6-2
375.00	4-3	4-7	4-11	5-3	5-6	5-10	6-2	6-6	6-9	7-1
400.00	4-10	5-3	5-7	5-11	6-4	6-8	7-0	7-4	7-8	8-0
425.00	5-6	5-11	6-4	6-8	7-1	7-6	7-11	8-4	8-8	9-1
450.00	6-2	6-7	7-1	7-6	8-0	8-5	8-10	9-4	9-9	10-2
475.00	6-10	7-4	7-10	8-4	8-11	9-5	9-11	10-4	10-10	11-4
500.00	7-7	8-2	8-9	9-3	9-10	10-5	10-11	11-6	12-0	12-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-4	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
225.00	1-9	1-10	2-0	2-1	2-3	2-4	2-5	2-7	2-8	2-9
250.00	2-2	2-4	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-5
275.00	2-7	2-9	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2
300.00	3-1	3-4	3-6	3-9	3-11	4-2	4-4	4-7	4-9	4-11
325.00	3-7	3-11	4-2	4-5	4-8	4-11	5-1	5-4	5-7	5-10
350.00	4-2	4-6	4-10	5-1	5-5	5-8	5-11	6-3	6-6	6-9
375.00	4-10	5-2	5-6	5-10	6-2	6-6	6-10	7-2	7-5	7-9
400.00	5-6	5-11	6-3	6-8	7-0	7-5	7-9	8-1	8-5	8-9
425.00	6-2	6-8	7-1	7-6	7-11	8-4	8-9	9-2	9-7	9-11
450.00	6-11	7-5	7-11	8-5	8-11	9-4	9-10	10-3	10-8	11-2
475.00	7-9	8-4	8-10	9-5	9-11	10-5	10-11	11-5	11-11	12-5
500.00	8-7	9-2	9-10	10-5	11-0	11-7	12-2	12-8	13-3	13-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.190

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-1	2-2	2-3	2-4	2-5	2-7	2-8	2-9	2-10	2-11
275.00	2-6	2-7	2-9	2-10	3-0	3-1	3-3	3-4	3-5	3-7
300.00	2-11	3-1	3-3	3-5	3-6	3-8	3-10	4-0	4-1	4-3
325.00	3-6	3-8	3-10	4-0	4-2	4-4	4-6	4-8	4-10	5-0
350.00	4-0	4-3	4-5	4-7	4-10	5-0	5-2	5-5	5-7	5-9
375.00	4-7	4-10	5-1	5-4	5-6	5-9	6-0	6-2	6-5	6-7
400.00	5-3	5-6	5-9	6-0	6-4	6-7	6-10	7-0	7-3	7-6
425.00	5-11	6-3	6-6	6-10	7-1	7-5	7-8	7-11	8-3	8-6
450.00	6-8	7-0	7-4	7-8	8-0	8-3	8-7	8-11	9-3	9-6
475.00	7-5	7-9	8-2	8-6	8-10	9-3	9-7	9-11	10-3	10-7
500.00	8-2	8-7	9-0	9-5	9-10	10-3	10-7	11-0	11-5	11-9
525.00	9-1	9-6	9-11	10-5	10-10	11-3	11-8	12-2	12-7	12-11
550.00	9-11	10-5	10-11	11-5	11-11	12-5	12-10	13-4	13-9	14-3
575.00	10-10	11-5	11-11	12-6	13-0	13-6	14-1	14-7	15-1	15-6
600.00	11-10	12-5	13-0	13-7	14-2	14-9	15-4	15-10	16-5	16-11
625.00	12-10	13-6	14-1	14-9	15-4	16-0	16-7	17-2	17-9	18-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-3	2-4	2-6	2-7	2-8	2-9	2-10	3-0	3-1	3-2
275.00	2-9	2-10	3-0	3-1	3-3	3-4	3-6	3-7	3-8	3-10
300.00	3-3	3-5	3-7	3-8	3-10	4-0	4-2	4-3	4-5	4-6
325.00	3-9	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-2	5-4
350.00	4-5	4-7	4-10	5-0	5-3	5-5	5-7	5-10	6-0	6-2
375.00	5-1	5-4	5-6	5-9	6-0	6-3	6-5	6-8	6-11	7-1
400.00	5-9	6-0	6-4	6-7	6-10	7-1	7-4	7-7	7-10	8-1
425.00	6-6	6-10	7-1	7-5	7-9	8-0	8-3	8-7	8-10	9-1
450.00	7-3	7-8	8-0	8-4	8-8	9-0	9-4	9-7	9-11	10-3
475.00	8-1	8-6	8-11	9-3	9-8	10-0	10-4	10-8	11-1	11-5
500.00	9-0	9-5	9-10	10-3	10-8	11-1	11-6	11-10	12-3	12-7
525.00	9-11	10-5	10-10	11-4	11-9	12-3	12-8	13-1	13-6	13-11
550.00	10-10	11-5	11-11	12-5	12-11	13-5	13-11	14-4	14-10	15-3
575.00	11-10	12-5	13-0	13-7	14-1	14-8	15-2	15-8	16-2	16-8
600.00	12-11	13-7	14-2	14-9	15-5	16-0	16-6	17-1	17-8	18-2
625.00	14-0	14-9	15-5	16-1	16-8	17-4	17-11	18-6	19-2	19-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.191

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.783	0.36	2716	0.33	3000*
0	0	0	0	0.44	0.16	3339	0.16	3450
30	0	0	0	0.44	0.24	2295	0.2	2695
40	0	0	0	0.44	0.28	1958	0.23	2434
50	0	0	0	0.44	0.34	1632	0.25	2170
60	0	0	0	0.44	0.41	1327	0.29	1905
70	0	0	0	0.44	0.52	1057	0.34	1641
80	0	0	0	0.44	0.65	840	0.4	1385
90	0	0	0	0.44	0.75	738	0.48	1145
100	0	0	0	0.44	0.81	682	0.59	934
110	0	0	0	0.44	0.87	630	0.72	763
120	0	0	0	0.44	0.94	584	0.87	635
130	0	0	0	0.44	1.01	542	1	548
167	0	0	0	0.44	1.29	426	1.28	429
212	0	0	0	0.44	1.62	340	1.61	342

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.783	1.44	2720	1.31	3000*
0	0	0	0	0.44	0.71	3087	0.67	3297
30	0	0	0	0.44	1.03	2139	0.86	2571
40	0	0	0	0.44	1.18	1858	0.94	2330
50	0	0	0	0.44	1.37	1607	1.05	2093
60	0	0	0	0.44	1.58	1390	1.18	1865
70	0	0	0	0.44	1.82	1210	1.33	1651
80	0	0	0	0.44	2.07	1065	1.51	1456
90	0	0	0	0.44	2.32	951	1.71	1284
100	0	0	0	0.44	2.51	876	1.93	1139
110	0	0	0	0.44	2.63	837	2.16	1018
120	0	0	0	0.44	2.75	801	2.39	920
130	0	0	0	0.44	2.87	768	2.62	839
167	0	0	0	0.44	3.31	665	3.29	670
212	0	0	0	0.44	3.83	575	3.81	578

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.192

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.783	3.21	2747	2.94	3000*
0	0	0	0	0.44	1.79	2763	1.62	3061
30	0	0	0	0.44	2.49	1987	2.06	2400
40	0	0	0	0.44	2.78	1781	2.26	2194
50	0	0	0	0.44	3.09	1603	2.48	2000
60	0	0	0	0.44	3.41	1452	2.72	1821
70	0	0	0	0.44	3.74	1325	2.98	1659
80	0	0	0	0.44	4.07	1218	3.27	1516
90	0	0	0	0.44	4.39	1129	3.56	1391
100	0	0	0	0.44	4.7	1054	3.86	1283
110	0	0	0	0.44	4.98	995	4.16	1190
120	0	0	0	0.44	5.14	964	4.46	1110
130	0	0	0	0.44	5.3	936	4.76	1042
167	0	0	0	0.44	5.87	844	5.8	855
212	0	0	0	0.44	6.56	756	6.52	760

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.783	5.63	2782	5.23	3000*
0	0	0	0	0.44	3.59	2453	3.16	2783
30	0	0	0	0.44	4.68	1881	3.95	2228
40	0	0	0	0.44	5.07	1736	4.26	2066
50	0	0	0	0.44	5.47	1610	4.59	1919
60	0	0	0	0.44	5.86	1502	4.93	1786
70	0	0	0	0.44	6.26	1408	5.28	1666
80	0	0	0	0.44	6.64	1326	5.64	1560
90	0	0	0	0.44	7.02	1255	6.01	1466
100	0	0	0	0.44	7.39	1192	6.37	1383
110	0	0	0	0.44	7.75	1137	6.73	1310
120	0	0	0	0.44	8.08	1091	7.08	1244
130	0	0	0	0.44	8.27	1066	7.43	1186
167	0	0	0	0.44	8.96	984	8.66	1018
212	0	0	0	0.44	9.78	902	9.73	906

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.193

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Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.783	8.7	2818	8.17	3000*
0	0	0	0	0.44	6.21	2217	5.47	2515
30	0	0	0	0.44	7.58	1816	6.59	2087
40	0	0	0	0.44	8.04	1713	7	1967
50	0	0	0	0.44	8.49	1621	7.41	1858
60	0	0	0	0.44	8.94	1540	7.82	1760
70	0	0	0	0.44	9.38	1468	8.24	1671
80	0	0	0	0.44	9.81	1404	8.65	1591
90	0	0	0	0.44	10.23	1346	9.07	1519
100	0	0	0	0.44	10.64	1294	9.47	1454
110	0	0	0	0.44	11.05	1247	9.88	1394
120	0	0	0	0.44	11.44	1204	10.27	1341
130	0	0	0	0.44	11.79	1169	10.66	1292
167	0	0	0	0.44	12.58	1095	12.05	1144
212	0	0	0	0.44	13.53	1020	13.46	1024

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-6	0-7	0-9
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-2
150.00	0-5	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-7
175.00	0-7	0-8	0-8	0-9	0-11	1-0	1-3	1-6	1-10	2-2
200.00	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-11	2-4	2-11

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-3	0-4	0-4	0-5	0-5	0-6
100.00	0-3	0-3	0-3	0-4	0-5	0-6	0-8	0-9	0-10	0-10
125.00	0-4	0-4	0-5	0-6	0-8	0-10	1-0	1-2	1-3	1-4
150.00	0-6	0-6	0-8	0-9	0-11	1-2	1-6	1-8	1-10	2-0
175.00	0-8	0-9	0-10	1-0	1-3	1-7	2-0	2-3	2-6	2-8
200.00	0-10	1-0	1-1	1-4	1-8	2-1	2-7	3-0	3-3	3-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.195

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-6
125.00	0-4	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-9	0-10
150.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-3
175.00	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-8
200.00	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-9	1-11	2-2
225.00	1-0	1-1	1-2	1-4	1-6	1-8	1-11	2-2	2-5	2-9
250.00	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-8	3-0	3-5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-8
125.00	0-4	0-5	0-6	0-6	0-7	0-9	0-10	0-11	1-0	1-0
150.00	0-6	0-7	0-8	0-9	0-11	1-0	1-2	1-4	1-5	1-6
175.00	0-8	0-9	0-11	1-1	1-3	1-5	1-7	1-9	1-11	2-0
200.00	0-11	1-0	1-2	1-4	1-7	1-10	2-1	2-4	2-6	2-8
225.00	1-2	1-4	1-6	1-9	2-0	2-4	2-7	2-11	3-2	3-4
250.00	1-5	1-7	1-10	2-2	2-6	2-10	3-3	3-7	3-11	4-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.196

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-0
175.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-5
200.00	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-9	1-10
225.00	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-4
250.00	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-11
275.00	1-7	1-9	1-11	2-1	2-3	2-6	2-9	3-0	3-3	3-6
300.00	1-11	2-1	2-3	2-6	2-9	3-0	3-3	3-7	3-10	4-2
325.00	2-3	2-5	2-8	2-11	3-2	3-6	3-10	4-2	4-6	4-11
350.00	2-7	2-10	3-1	3-4	3-8	4-1	4-5	4-10	5-3	5-8
375.00	2-11	3-3	3-6	3-10	4-3	4-8	5-1	5-7	6-0	6-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
175.00	0-9	0-10	0-11	1-1	1-2	1-3	1-5	1-6	1-7	1-8
200.00	1-0	1-1	1-3	1-4	1-6	1-8	1-10	1-11	2-1	2-3
225.00	1-3	1-5	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-10
250.00	1-7	1-9	1-11	2-2	2-4	2-7	2-10	3-1	3-3	3-6
275.00	1-10	2-1	2-4	2-7	2-10	3-2	3-5	3-8	3-11	4-2
300.00	2-3	2-6	2-9	3-1	3-5	3-9	4-1	4-5	4-8	5-0
325.00	2-7	2-11	3-3	3-8	4-0	4-5	4-9	5-2	5-6	5-10
350.00	3-0	3-5	3-9	4-2	4-8	5-1	5-6	6-0	6-5	6-9
375.00	3-6	3-11	4-4	4-10	5-4	5-10	6-4	6-10	7-4	7-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.197

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
225.00	1-2	1-3	1-4	1-5	1-7	1-8	1-9	1-11	2-0	2-2
250.00	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-6	2-8
275.00	1-9	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2
300.00	2-1	2-3	2-5	2-7	2-9	3-0	3-2	3-5	3-7	3-9
325.00	2-5	2-7	2-10	3-0	3-3	3-6	3-9	4-0	4-2	4-5
350.00	2-10	3-0	3-3	3-6	3-9	4-1	4-4	4-7	4-11	5-2
375.00	3-3	3-6	3-9	4-0	4-4	4-8	5-0	5-3	5-7	5-11
400.00	3-8	3-11	4-3	4-7	4-11	5-3	5-8	6-0	6-4	6-9
425.00	4-2	4-6	4-10	5-2	5-7	6-0	6-4	6-9	7-2	7-7
450.00	4-8	5-0	5-5	5-10	6-3	6-8	7-2	7-7	8-1	8-6
475.00	5-2	5-7	6-0	6-6	6-11	7-5	8-0	8-6	9-0	9-6
500.00	5-9	6-2	6-8	7-2	7-8	8-3	8-10	9-5	9-11	10-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-1	1-2	1-3	1-4	1-6	1-7	1-8	1-9	1-10	1-11
225.00	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-5
250.00	1-8	1-10	2-0	2-2	2-3	2-5	2-7	2-9	2-11	3-0
275.00	2-0	2-3	2-5	2-7	2-9	2-11	3-2	3-4	3-6	3-8
300.00	2-5	2-8	2-10	3-1	3-4	3-6	3-9	3-11	4-2	4-4
325.00	2-10	3-1	3-4	3-7	3-10	4-2	4-5	4-8	4-11	5-1
350.00	3-3	3-7	3-11	4-2	4-6	4-9	5-1	5-4	5-8	5-11
375.00	3-9	4-1	4-5	4-10	5-2	5-6	5-10	6-2	6-6	6-10
400.00	4-4	4-8	5-1	5-6	5-10	6-3	6-8	7-0	7-5	7-9
425.00	4-10	5-3	5-9	6-2	6-7	7-1	7-6	7-11	8-4	8-9
450.00	5-5	5-11	6-5	6-11	7-5	7-11	8-5	8-11	9-4	9-10
475.00	6-1	6-7	7-2	7-9	8-3	8-10	9-4	9-11	10-5	10-11
500.00	6-9	7-4	7-11	8-7	9-2	9-9	10-5	11-0	11-7	12-1

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STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.198

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-6
275.00	1-11	2-0	2-1	2-3	2-4	2-6	2-7	2-9	2-10	3-0
300.00	2-3	2-4	2-6	2-8	2-10	3-0	3-1	3-3	3-5	3-7
325.00	2-7	2-9	2-11	3-2	3-4	3-6	3-8	3-10	4-0	4-2
350.00	3-0	3-3	3-5	3-8	3-10	4-0	4-3	4-5	4-8	4-10
375.00	3-6	3-9	3-11	4-2	4-5	4-8	4-10	5-1	5-4	5-7
400.00	4-0	4-3	4-6	4-9	5-0	5-3	5-6	5-10	6-1	6-4
425.00	4-6	4-9	5-1	5-4	5-8	5-11	6-3	6-7	6-10	7-2
450.00	5-0	5-4	5-8	6-0	6-4	6-8	7-0	7-4	7-8	8-0
475.00	5-7	5-11	6-4	6-8	7-1	7-5	7-10	8-2	8-7	8-11
500.00	6-2	6-7	7-0	7-5	7-10	8-3	8-8	9-1	9-6	9-11
525.00	6-10	7-3	7-9	8-2	8-7	9-1	9-6	10-0	10-5	10-11
550.00	7-6	8-0	8-6	9-0	9-6	10-0	10-6	11-0	11-6	11-11
575.00	8-2	8-9	9-3	9-10	10-4	10-11	11-5	12-0	12-6	13-1
600.00	8-11	9-6	10-1	10-8	11-3	11-10	12-6	13-1	13-8	14-3
625.00	9-8	10-4	10-11	11-7	12-3	12-10	13-6	14-2	14-10	15-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-7	2-8	2-9
275.00	2-2	2-4	2-5	2-7	2-8	2-10	3-0	3-1	3-3	3-4
300.00	2-7	2-9	2-11	3-1	3-3	3-4	3-6	3-8	3-10	4-0
325.00	3-0	3-2	3-5	3-7	3-9	4-0	4-2	4-4	4-6	4-8
350.00	3-6	3-9	3-11	4-2	4-5	4-7	4-10	5-0	5-3	5-5
375.00	4-0	4-3	4-6	4-9	5-0	5-3	5-6	5-9	6-0	6-3
400.00	4-7	4-10	5-2	5-5	5-9	6-0	6-3	6-7	6-10	7-1
425.00	5-2	5-6	5-10	6-2	6-5	6-9	7-1	7-5	7-8	8-0
450.00	5-9	6-2	6-6	6-11	7-3	7-7	7-11	8-3	8-7	8-11
475.00	6-5	6-10	7-3	7-8	8-1	8-6	8-10	9-3	9-7	10-0
500.00	7-1	7-7	8-0	8-6	8-11	9-5	9-10	10-3	10-8	11-1
525.00	7-10	8-4	8-10	9-4	9-10	10-4	10-10	11-3	11-9	12-2
550.00	8-7	9-2	9-9	10-3	10-10	11-4	11-10	12-5	12-11	13-4
575.00	9-5	10-0	10-8	11-3	11-10	12-5	13-0	13-6	14-1	14-7
600.00	10-3	10-11	11-7	12-3	12-10	13-6	14-2	14-9	15-4	15-11
625.00	11-1	11-10	12-7	13-3	14-0	14-8	15-4	16-0	16-8	17-3

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STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.199

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	1.51	989	1.49	1000*
20	0	0	0	0.44	0.84	658	0.81	683
30	0	0	0	0.44	0.99	554	0.95	579
40	0	0	0	0.44	1.14	482	1.09	503
50	0	0	0	0.44	1.28	429	1.23	447
60	0	0	0	0.44	1.42	389	1.36	404
70	0	0	0	0.44	1.54	357	1.48	371
80	0	0	0	0.44	1.65	333	1.6	344
90	0	0	0	0.44	1.72	320	1.71	322
100	0	0	0	0.44	1.79	307	1.79	307
110	0	0	0	0.44	1.86	296	1.86	296
120	0	0	0	0.44	1.92	287	1.92	287
130	0	0	0	0.44	1.98	278	1.98	278
167	0	0	0	0.44	2.2	250	2.2	250
212	0	0	0	0.44	2.45	225	2.45	225

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	6.01	997	5.99	1000*
20	0	0	0	0.44	5.35	413	5.31	416
30	0	0	0	0.44	5.49	402	5.45	405
40	0	0	0	0.44	5.63	392	5.58	395
50	0	0	0	0.44	5.77	382	5.72	386
60	0	0	0	0.44	5.91	374	5.85	377
70	0	0	0	0.44	6.04	366	5.98	369
80	0	0	0	0.44	6.17	358	6.11	362
90	0	0	0	0.44	6.27	352	6.23	354
100	0	0	0	0.44	6.35	348	6.35	348
110	0	0	0	0.44	6.43	343	6.43	343
120	0	0	0	0.44	6.51	339	6.51	339
130	0	0	0	0.44	6.59	335	6.59	335
167	0	0	0	0.44	6.88	321	6.88	321
212	0	0	0	0.44	7.21	307	7.21	307

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.200

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	13.56	999	13.54	1000*
20	0	0	0	0.44	12.91	386	12.87	388
30	0	0	0	0.44	13.05	382	13	384
40	0	0	0	0.44	13.18	378	13.14	380
50	0	0	0	0.44	13.32	375	13.27	376
60	0	0	0	0.44	13.46	371	13.4	372
70	0	0	0	0.44	13.59	367	13.53	369
80	0	0	0	0.44	13.72	364	13.66	365
90	0	0	0	0.44	13.83	361	13.79	362
100	0	0	0	0.44	13.92	359	13.92	359
110	0	0	0	0.44	14	357	14	357
120	0	0	0	0.44	14.09	354	14.09	354
130	0	0	0	0.44	14.17	352	14.17	352
167	0	0	0	0.44	14.48	345	14.48	345
212	0	0	0	0.44	14.85	337	14.85	337

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	24.25	999	24.23	1000*
20	0	0	0	0.44	23.6	378	23.56	379
30	0	0	0	0.44	23.74	376	23.69	377
40	0	0	0	0.44	23.87	374	23.83	375
50	0	0	0	0.44	24.01	372	23.96	373
60	0	0	0	0.44	24.14	370	24.09	371
70	0	0	0	0.44	24.28	368	24.22	369
80	0	0	0	0.44	24.41	366	24.35	367
90	0	0	0	0.44	24.52	364	24.48	365
100	0	0	0	0.44	24.61	363	24.61	363
110	0	0	0	0.44	24.7	362	24.7	362
120	0	0	0	0.44	24.79	360	24.79	360
130	0	0	0	0.44	24.88	359	24.88	359
167	0	0	0	0.44	25.2	355	25.2	355
212	0	0	0	0.44	25.58	350	25.58	350

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.201

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	38.2	1000	38.19	1000*
20	0	0	0	0.44	37.56	374	37.52	375
30	0	0	0	0.44	37.69	373	37.65	374
40	0	0	0	0.44	37.83	372	37.78	372
50	0	0	0	0.44	37.96	371	37.91	371
60	0	0	0	0.44	38.1	369	38.04	370
70	0	0	0	0.44	38.23	368	38.17	369
80	0	0	0	0.44	38.37	367	38.31	367
90	0	0	0	0.44	38.48	366	38.44	366
100	0	0	0	0.44	38.57	365	38.57	365
110	0	0	0	0.44	38.66	364	38.66	364
120	0	0	0	0.44	38.75	363	38.75	363
130	0	0	0	0.44	38.84	363	38.84	363
167	0	0	0	0.44	39.16	360	39.16	360
212	0	0	0	0.44	39.55	356	39.55	356

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1
100.00	0-10	0-11	1-1	1-3	1-4	1-6	1-7	1-9	1-10	1-10
125.00	1-3	1-6	1-9	1-11	2-2	2-4	2-6	2-8	2-10	2-11
150.00	1-10	2-2	2-6	2-9	3-1	3-4	3-7	3-10	4-0	4-2
175.00	2-6	2-11	3-4	3-9	4-2	4-7	4-11	5-3	5-6	5-8
200.00	3-3	3-10	4-5	4-11	5-5	5-11	6-5	6-10	7-2	7-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1
100.00	0-10	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-10	1-10
125.00	1-4	1-7	1-9	2-0	2-3	2-5	2-7	2-8	2-10	2-11
150.00	1-11	2-3	2-7	2-11	3-2	3-6	3-9	3-11	4-0	4-2
175.00	2-7	3-0	3-6	3-11	4-4	4-9	5-1	5-3	5-6	5-8
200.00	3-4	4-0	4-7	5-2	5-8	6-2	6-8	6-11	7-2	7-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.203

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-7
125.00	2-1	2-2	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-6
150.00	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-7	3-7
175.00	4-1	4-2	4-3	4-5	4-6	4-7	4-8	4-9	4-10	4-11
200.00	5-4	5-5	5-7	5-9	5-10	6-0	6-1	6-3	6-4	6-5
225.00	6-9	6-11	7-1	7-3	7-5	7-7	7-9	7-11	8-0	8-2
250.00	8-4	8-6	8-9	8-11	9-2	9-4	9-7	9-9	9-11	10-1

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-7
125.00	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-5	2-6	2-6
150.00	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-6	3-7	3-7
175.00	4-1	4-2	4-4	4-5	4-6	4-7	4-9	4-10	4-10	4-11
200.00	5-4	5-6	5-8	5-9	5-11	6-0	6-2	6-3	6-4	6-5
225.00	6-9	6-11	7-2	7-4	7-6	7-8	7-10	7-11	8-0	8-2
250.00	8-4	8-7	8-10	9-0	9-3	9-5	9-8	9-10	9-11	10-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-3	3-3	3-3	3-4	3-4	3-5	3-5	3-5	3-6	3-6
175.00	4-4	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9	4-9
200.00	5-9	5-9	5-10	5-11	5-11	6-0	6-1	6-1	6-2	6-3
225.00	7-3	7-4	7-5	7-5	7-6	7-7	7-8	7-9	7-10	7-10
250.00	8-11	9-0	9-1	9-2	9-4	9-5	9-6	9-7	9-8	9-9
275.00	10-10	10-11	11-0	11-2	11-3	11-4	11-6	11-7	11-8	11-9
300.00	12-10	13-0	13-2	13-3	13-5	13-6	13-8	13-9	13-11	14-0
325.00	15-1	15-3	15-5	15-7	15-9	15-11	16-0	16-2	16-4	16-5
350.00	17-6	17-9	17-11	18-1	18-3	18-5	18-7	18-9	19-0	19-1
375.00	20-2	20-4	20-7	20-9	21-0	21-2	21-5	21-7	21-9	21-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-3	3-3	3-3	3-4	3-4	3-5	3-5	3-5	3-6	3-6
175.00	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9	4-9
200.00	5-9	5-9	5-10	5-11	6-0	6-0	6-1	6-2	6-2	6-3
225.00	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-9	7-10	7-10
250.00	8-11	9-1	9-2	9-3	9-4	9-5	9-6	9-7	9-8	9-9
275.00	10-10	10-11	11-1	11-2	11-4	11-5	11-6	11-7	11-8	11-9
300.00	12-11	13-1	13-2	13-4	13-5	13-7	13-9	13-10	13-11	14-0
325.00	15-2	15-4	15-6	15-8	15-10	15-11	16-1	16-3	16-4	16-5
350.00	17-7	17-9	18-0	18-2	18-4	18-6	18-8	18-10	19-0	19-1
375.00	20-2	20-5	20-8	20-10	21-1	21-3	21-6	21-8	21-9	21-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.205

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-10	5-11	5-11	6-0	6-0	6-0	6-1	6-1	6-2	6-2
225.00	7-5	7-6	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-9
250.00	9-2	9-3	9-3	9-4	9-5	9-5	9-6	9-6	9-7	9-7
275.00	11-1	11-2	11-3	11-4	11-4	11-5	11-6	11-6	11-7	11-8
300.00	13-3	13-4	13-5	13-5	13-6	13-7	13-8	13-9	13-10	13-10
325.00	15-6	15-7	15-8	15-9	15-11	16-0	16-1	16-2	16-3	16-3
350.00	18-0	18-1	18-3	18-4	18-5	18-6	18-7	18-9	18-10	18-11
375.00	20-8	20-10	20-11	21-1	21-2	21-3	21-5	21-6	21-7	21-8
400.00	23-7	23-8	23-10	24-0	24-1	24-3	24-4	24-6	24-7	24-8
425.00	26-7	26-9	26-11	27-1	27-3	27-4	27-6	27-8	27-10	27-11
450.00	29-10	30-0	30-2	30-4	30-6	30-8	30-10	31-0	31-2	31-4
475.00	33-3	33-6	33-8	33-10	34-0	34-3	34-5	34-7	34-9	34-11
500.00	36-11	37-1	37-4	37-6	37-9	37-11	38-2	38-4	38-7	38-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-11	5-11	5-11	6-0	6-0	6-1	6-1	6-1	6-2	6-2
225.00	7-5	7-6	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-9
250.00	9-2	9-3	9-4	9-4	9-5	9-5	9-6	9-7	9-7	9-7
275.00	11-2	11-2	11-3	11-4	11-5	11-5	11-6	11-7	11-7	11-8
300.00	13-3	13-4	13-5	13-6	13-7	13-8	13-8	13-9	13-10	13-10
325.00	15-7	15-8	15-9	15-10	15-11	16-0	16-1	16-2	16-3	16-3
350.00	18-1	18-2	18-3	18-4	18-6	18-7	18-8	18-9	18-10	18-11
375.00	20-9	20-10	21-0	21-1	21-2	21-4	21-5	21-6	21-7	21-8
400.00	23-7	23-9	23-10	24-0	24-2	24-3	24-5	24-6	24-7	24-8
425.00	26-8	26-10	27-0	27-1	27-3	27-5	27-7	27-8	27-10	27-11
450.00	29-11	30-1	30-3	30-5	30-7	30-9	30-11	31-1	31-2	31-4
475.00	33-4	33-6	33-9	33-11	34-1	34-4	34-6	34-8	34-9	34-11
500.00	37-0	37-2	37-5	37-7	37-10	38-0	38-3	38-5	38-7	38-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.206

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-4	9-4	9-5	9-5	9-5	9-6	9-6	9-7	9-7	9-7
275.00	11-3	11-4	11-4	11-5	11-5	11-6	11-6	11-7	11-7	11-8
300.00	13-5	13-6	13-6	13-7	13-8	13-8	13-9	13-9	13-10	13-10
325.00	15-9	15-10	15-11	15-11	16-0	16-1	16-1	16-2	16-3	16-3
350.00	18-4	18-5	18-5	18-6	18-7	18-8	18-8	18-9	18-10	18-10
375.00	21-0	21-1	21-2	21-3	21-4	21-5	21-6	21-7	21-7	21-8
400.00	23-11	24-0	24-1	24-2	24-3	24-4	24-5	24-6	24-7	24-8
425.00	27-1	27-2	27-3	27-4	27-5	27-6	27-7	27-9	27-10	27-10
450.00	30-4	30-5	30-7	30-8	30-9	30-11	31-0	31-1	31-2	31-3
475.00	33-10	33-11	34-1	34-2	34-4	34-5	34-7	34-8	34-9	34-10
500.00	37-6	37-8	37-9	37-11	38-1	38-2	38-4	38-5	38-7	38-8
525.00	41-5	41-6	41-8	41-10	42-0	42-1	42-3	42-5	42-7	42-8
550.00	45-6	45-8	45-9	45-11	46-1	46-3	46-5	46-7	46-9	46-10
575.00	49-9	49-11	50-1	50-3	50-5	50-7	50-9	50-11	51-2	51-3
600.00	54-2	54-5	54-7	54-9	55-0	55-2	55-4	55-6	55-9	55-10
625.00	58-10	59-1	59-3	59-6	59-8	59-11	60-1	60-4	60-6	60-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-4	9-4	9-5	9-5	9-6	9-6	9-6	9-7	9-7	9-7
275.00	11-4	11-4	11-5	11-5	11-6	11-6	11-7	11-7	11-7	11-8
300.00	13-5	13-6	13-7	13-7	13-8	13-8	13-9	13-9	13-10	13-10
325.00	15-10	15-10	15-11	16-0	16-0	16-1	16-2	16-2	16-3	16-3
350.00	18-4	18-5	18-6	18-6	18-7	18-8	18-9	18-9	18-10	18-10
375.00	21-1	21-2	21-3	21-3	21-4	21-5	21-6	21-7	21-7	21-8
400.00	24-0	24-1	24-2	24-3	24-4	24-5	24-6	24-7	24-7	24-8
425.00	27-1	27-2	27-3	27-4	27-6	27-7	27-8	27-9	27-10	27-10
450.00	30-5	30-6	30-7	30-8	30-10	30-11	31-0	31-1	31-2	31-3
475.00	33-10	34-0	34-1	34-3	34-4	34-6	34-7	34-8	34-9	34-10
500.00	37-7	37-8	37-10	38-0	38-1	38-3	38-4	38-6	38-7	38-8
525.00	41-5	41-7	41-9	41-11	42-0	42-2	42-4	42-5	42-7	42-8
550.00	45-6	45-8	45-10	46-0	46-2	46-4	46-6	46-8	46-9	46-10
575.00	49-9	50-0	50-2	50-4	50-6	50-8	50-10	51-0	51-2	51-3
600.00	54-3	54-5	54-8	54-10	55-1	55-3	55-5	55-7	55-9	55-10
625.00	58-11	59-2	59-4	59-7	59-9	60-0	60-2	60-5	60-6	60-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.207

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	1.05	1422	1	1500*
20	0	0	0	0.44	0.34	1619	0.32	1702
30	0	0	0	0.44	0.42	1315	0.38	1447
40	0	0	0	0.44	0.53	1047	0.46	1205
50	0	0	0	0.44	0.66	833	0.56	988
60	0	0	0	0.44	0.81	676	0.68	807
70	0	0	0	0.44	0.97	567	0.82	669
80	0	0	0	0.44	1.12	490	0.97	568
90	0	0	0	0.44	1.21	454	1.11	495
100	0	0	0	0.44	1.29	427	1.25	440
110	0	0	0	0.44	1.37	403	1.37	403
120	0	0	0	0.44	1.44	382	1.44	382
130	0	0	0	0.44	1.51	364	1.51	364
167	0	0	0	0.44	1.77	311	1.77	311
212	0	0	0	0.44	2.05	268	2.05	268

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	4.04	1480	3.99	1500*
20	0	0	0	0.44	2.87	767	2.74	803
30	0	0	0	0.44	3.1	710	2.96	744
40	0	0	0	0.44	3.32	664	3.17	694
50	0	0	0	0.44	3.53	624	3.38	652
60	0	0	0	0.44	3.73	591	3.58	616
70	0	0	0	0.44	3.92	562	3.77	585
80	0	0	0	0.44	4.11	536	3.95	557
90	0	0	0	0.44	4.29	514	4.13	533
100	0	0	0	0.44	4.41	500	4.31	512
110	0	0	0	0.44	4.52	488	4.47	493
120	0	0	0	0.44	4.62	477	4.62	477
130	0	0	0	0.44	4.73	466	4.73	466
167	0	0	0	0.44	5.09	433	5.09	433
212	0	0	0	0.44	5.52	400	5.52	400

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.208

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	9.04	1492	8.99	1500*
20	0	0	0	0.44	7.87	630	7.75	641
30	0	0	0	0.44	8.09	614	7.96	624
40	0	0	0	0.44	8.3	598	8.16	608
50	0	0	0	0.44	8.51	583	8.37	593
60	0	0	0	0.44	8.71	570	8.57	580
70	0	0	0	0.44	8.91	557	8.76	567
80	0	0	0	0.44	9.11	545	8.95	555
90	0	0	0	0.44	9.3	534	9.14	543
100	0	0	0	0.44	9.46	525	9.33	533
110	0	0	0	0.44	9.58	519	9.51	523
120	0	0	0	0.44	9.7	513	9.69	513
130	0	0	0	0.44	9.82	506	9.82	506
167	0	0	0	0.44	10.24	486	10.24	486
212	0	0	0	0.44	10.74	463	10.74	463

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	16.07	1495	16.02	1500*
20	0	0	0	0.44	14.92	593	14.79	598
30	0	0	0	0.44	15.13	585	15	590
40	0	0	0	0.44	15.33	577	15.2	582
50	0	0	0	0.44	15.54	570	15.4	575
60	0	0	0	0.44	15.74	562	15.6	568
70	0	0	0	0.44	15.94	555	15.79	561
80	0	0	0	0.44	16.14	549	15.99	554
90	0	0	0	0.44	16.34	542	16.18	547
100	0	0	0	0.44	16.52	536	16.37	541
110	0	0	0	0.44	16.64	532	16.56	535
120	0	0	0	0.44	16.77	528	16.74	529
130	0	0	0	0.44	16.9	525	16.9	525
167	0	0	0	0.44	17.35	511	17.35	511
212	0	0	0	0.44	17.88	496	17.88	496

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.209

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	25.18	1497	25.13	1500*
20	0	0	0	0.44	24.02	578	23.9	581
30	0	0	0	0.44	24.23	573	24.1	576
40	0	0	0	0.44	24.44	568	24.3	571
50	0	0	0	0.44	24.64	563	24.5	567
60	0	0	0	0.44	24.85	559	24.7	562
70	0	0	0	0.44	25.05	554	24.9	558
80	0	0	0	0.44	25.25	550	25.09	554
90	0	0	0	0.44	25.44	546	25.29	549
100	0	0	0	0.44	25.64	542	25.48	545
110	0	0	0	0.44	25.76	539	25.67	541
120	0	0	0	0.44	25.89	537	25.86	537
130	0	0	0	0.44	26.02	534	26.02	534
167	0	0	0	0.44	26.49	525	26.49	525
212	0	0	0	0.44	27.05	514	27.05	514

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9
100.00	0-4	0-5	0-5	0-7	0-8	0-10	1-0	1-1	1-3	1-4
125.00	0-6	0-7	0-9	0-10	1-1	1-3	1-6	1-9	1-11	2-2
150.00	0-9	0-10	1-0	1-3	1-6	1-10	2-2	2-6	2-10	3-1
175.00	1-0	1-2	1-5	1-8	2-1	2-6	3-0	3-5	3-10	4-2
200.00	1-4	1-6	1-10	2-3	2-9	3-4	3-11	4-5	5-0	5-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-4	0-4	0-5	0-7	0-8	0-8	0-9	0-9
100.00	0-4	0-5	0-6	0-8	0-10	1-0	1-1	1-3	1-3	1-4
125.00	0-6	0-8	0-10	1-0	1-3	1-6	1-9	1-11	2-0	2-2
150.00	0-9	0-11	1-2	1-6	1-10	2-2	2-6	2-9	2-11	3-1
175.00	1-0	1-3	1-7	2-0	2-6	3-0	3-5	3-9	3-11	4-2
200.00	1-4	1-8	2-1	2-8	3-3	3-11	4-6	4-10	5-2	5-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.211

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1
125.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9
150.00	1-7	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-6
175.00	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-5
200.00	2-9	3-0	3-2	3-5	3-7	3-9	3-11	4-2	4-4	4-6
225.00	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-5	5-8
250.00	4-3	4-8	5-0	5-3	5-7	5-11	6-2	6-6	6-9	7-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2
125.00	1-1	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-9
150.00	1-7	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-6
175.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-3	3-5	3-5
200.00	2-10	3-1	3-4	3-6	3-9	3-11	4-1	4-3	4-5	4-6
225.00	3-8	3-11	4-2	4-6	4-9	5-0	5-2	5-5	5-7	5-9
250.00	4-6	4-10	5-2	5-6	5-10	6-2	6-5	6-8	6-11	7-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.212

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-11	2-0	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-4
175.00	2-8	2-8	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3
200.00	3-5	3-6	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3
225.00	4-4	4-6	4-7	4-8	4-10	4-11	5-0	5-2	5-3	5-4
250.00	5-5	5-6	5-8	5-10	5-11	6-1	6-3	6-4	6-6	6-7
275.00	6-6	6-8	6-10	7-0	7-2	7-4	7-6	7-8	7-10	8-0
300.00	7-9	7-11	8-2	8-4	8-7	8-9	8-11	9-2	9-4	9-6
325.00	9-1	9-4	9-7	9-10	10-1	10-3	10-6	10-9	10-11	11-2
350.00	10-7	10-10	11-1	11-5	11-8	11-11	12-2	12-5	12-8	12-11
375.00	12-1	12-5	12-9	13-1	13-5	13-8	14-0	14-4	14-7	14-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-4	2-5
175.00	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3
200.00	3-6	3-7	3-8	3-9	3-10	4-0	4-1	4-2	4-2	4-3
225.00	4-5	4-7	4-8	4-9	4-11	5-0	5-1	5-3	5-4	5-5
250.00	5-6	5-7	5-9	5-11	6-1	6-2	6-4	6-5	6-7	6-8
275.00	6-7	6-10	7-0	7-2	7-4	7-6	7-8	7-10	7-11	8-1
300.00	7-10	8-1	8-4	8-6	8-9	8-11	9-1	9-4	9-6	9-7
325.00	9-3	9-6	9-9	10-0	10-3	10-6	10-8	10-11	11-1	11-3
350.00	10-9	11-0	11-4	11-7	11-10	12-2	12-5	12-8	12-11	13-1
375.00	12-4	12-8	13-0	13-4	13-7	13-11	14-3	14-6	14-10	15-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.213

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-8	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-1	4-2
225.00	4-8	4-9	4-10	4-10	4-11	5-0	5-1	5-1	5-2	5-3
250.00	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6
275.00	7-0	7-1	7-2	7-3	7-4	7-5	7-7	7-8	7-9	7-10
300.00	8-4	8-5	8-7	8-8	8-9	8-11	9-0	9-1	9-2	9-4
325.00	9-9	9-11	10-0	10-2	10-3	10-5	10-7	10-8	10-10	10-11
350.00	11-4	11-6	11-8	11-9	11-11	12-1	12-3	12-5	12-6	12-8
375.00	13-0	13-2	13-4	13-6	13-8	13-11	14-1	14-3	14-5	14-7
400.00	14-10	15-0	15-2	15-5	15-7	15-10	16-0	16-2	16-4	16-7
425.00	16-8	16-11	17-2	17-5	17-7	17-10	18-1	18-3	18-6	18-8
450.00	18-9	19-0	19-3	19-6	19-9	20-0	20-3	20-6	20-9	21-0
475.00	20-10	21-2	21-5	21-9	22-0	22-3	22-7	22-10	23-1	23-4
500.00	23-2	23-5	23-9	24-1	24-5	24-8	25-0	25-4	25-7	25-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-9	3-9	3-10	3-11	3-11	4-0	4-0	4-1	4-1	4-2
225.00	4-9	4-9	4-10	4-11	5-0	5-0	5-1	5-2	5-3	5-3
250.00	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-4	6-5	6-6
275.00	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-9	7-10	7-10
300.00	8-5	8-6	8-7	8-9	8-10	9-0	9-1	9-2	9-3	9-4
325.00	9-10	10-0	10-1	10-3	10-5	10-6	10-8	10-9	10-11	11-0
350.00	11-5	11-7	11-9	11-11	12-1	12-2	12-4	12-6	12-8	12-9
375.00	13-1	13-4	13-6	13-8	13-10	14-0	14-2	14-4	14-6	14-8
400.00	14-11	15-2	15-4	15-6	15-9	15-11	16-2	16-4	16-6	16-8
425.00	16-10	17-1	17-4	17-7	17-9	18-0	18-3	18-5	18-8	18-10
450.00	18-11	19-2	19-5	19-8	19-11	20-2	20-5	20-8	20-11	21-1
475.00	21-1	21-4	21-8	21-11	22-3	22-6	22-9	23-1	23-4	23-6
500.00	23-4	23-8	24-0	24-4	24-8	24-11	25-3	25-7	25-10	26-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.214

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-0	6-0	6-1	6-1	6-2	6-3	6-3	6-4	6-4	6-5
275.00	7-3	7-3	7-4	7-5	7-5	7-6	7-7	7-8	7-8	7-9
300.00	8-7	8-8	8-9	8-10	8-10	8-11	9-0	9-1	9-2	9-3
325.00	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10
350.00	11-8	11-10	11-11	12-0	12-1	12-2	12-3	12-4	12-6	12-7
375.00	13-5	13-6	13-8	13-9	13-10	14-0	14-1	14-2	14-4	14-5
400.00	15-3	15-5	15-6	15-8	15-9	15-11	16-0	16-2	16-3	16-5
425.00	17-3	17-5	17-7	17-8	17-10	18-0	18-1	18-3	18-5	18-6
450.00	19-4	19-6	19-8	19-10	20-0	20-2	20-4	20-6	20-7	20-9
475.00	21-7	21-9	21-11	22-1	22-3	22-6	22-8	22-10	23-0	23-2
500.00	23-11	24-1	24-4	24-6	24-8	24-11	25-1	25-3	25-6	25-8
525.00	26-4	26-7	26-10	27-0	27-3	27-5	27-8	27-11	28-1	28-4
550.00	28-11	29-2	29-5	29-8	29-11	30-2	30-5	30-7	30-10	31-1
575.00	31-8	31-11	32-2	32-5	32-8	33-0	33-3	33-6	33-9	34-0
600.00	34-6	34-9	35-1	35-4	35-7	35-11	36-2	36-6	36-9	37-0
625.00	37-5	37-9	38-1	38-4	38-8	39-0	39-3	39-7	39-11	40-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-0	6-1	6-1	6-2	6-2	6-3	6-4	6-4	6-5	6-5
275.00	7-3	7-4	7-5	7-5	7-6	7-7	7-7	7-8	7-9	7-9
300.00	8-8	8-8	8-9	8-10	8-11	9-0	9-1	9-2	9-2	9-3
325.00	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-10
350.00	11-9	11-10	11-11	12-1	12-2	12-3	12-4	12-5	12-6	12-7
375.00	13-6	13-7	13-9	13-10	13-11	14-1	14-2	14-3	14-5	14-6
400.00	15-4	15-6	15-7	15-9	15-11	16-0	16-2	16-3	16-5	16-6
425.00	17-4	17-6	17-8	17-9	17-11	18-1	18-3	18-4	18-6	18-7
450.00	19-5	19-7	19-9	19-11	20-1	20-3	20-5	20-7	20-9	20-10
475.00	21-8	21-10	22-1	22-3	22-5	22-7	22-9	22-11	23-2	23-3
500.00	24-0	24-3	24-5	24-8	24-10	25-1	25-3	25-5	25-8	25-9
525.00	26-6	26-9	26-11	27-2	27-5	27-7	27-10	28-1	28-3	28-5
550.00	29-1	29-4	29-7	29-10	30-1	30-4	30-7	30-10	31-0	31-2
575.00	31-10	32-1	32-4	32-7	32-11	33-2	33-5	33-8	33-11	34-1
600.00	34-8	34-11	35-3	35-6	35-10	36-1	36-5	36-8	37-0	37-2
625.00	37-7	37-11	38-3	38-7	38-11	39-3	39-6	39-10	40-2	40-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.215

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	0.84	1771	0.75	2000*
20	0	0	0	0.44	0.24	2265	0.22	2459
30	0	0	0	0.44	0.29	1928	0.25	2198
40	0	0	0	0.44	0.34	1604	0.28	1934
50	0	0	0	0.44	0.42	1301	0.33	1672
60	0	0	0	0.44	0.53	1036	0.39	1416
70	0	0	0	0.44	0.67	824	0.47	1175
80	0	0	0	0.44	0.82	670	0.57	960
90	0	0	0	0.44	0.91	603	0.7	784
100	0	0	0	0.44	0.98	559	0.84	651
110	0	0	0	0.44	1.06	520	0.99	555
120	0	0	0	0.44	1.13	486	1.13	487
130	0	0	0	0.44	1.21	456	1.21	456
167	0	0	0	0.44	1.48	371	1.48	371
212	0	0	0	0.44	1.79	307	1.79	307

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	3.1	1929	2.99	2000*
20	0	0	0	0.44	1.56	1412	1.4	1574
30	0	0	0	0.44	1.79	1229	1.58	1390
40	0	0	0	0.44	2.04	1080	1.79	1230
50	0	0	0	0.44	2.29	962	2.01	1095
60	0	0	0	0.44	2.53	869	2.24	983
70	0	0	0	0.44	2.77	794	2.47	892
80	0	0	0	0.44	3.01	733	2.7	817
90	0	0	0	0.44	3.23	682	2.92	755
100	0	0	0	0.44	3.41	646	3.13	703
110	0	0	0	0.44	3.52	625	3.34	659
120	0	0	0	0.44	3.64	605	3.54	622
130	0	0	0	0.44	3.76	586	3.74	590
167	0	0	0	0.44	4.17	528	4.17	528
212	0	0	0	0.44	4.65	474	4.65	474

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.216

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	6.83	1970	6.73	2000*
20	0	0	0	0.44	5.07	978	4.8	1032
30	0	0	0	0.44	5.36	924	5.08	975
40	0	0	0	0.44	5.65	877	5.36	924
50	0	0	0	0.44	5.93	836	5.63	880
60	0	0	0	0.44	6.2	800	5.9	840
70	0	0	0	0.44	6.46	768	6.16	805
80	0	0	0	0.44	6.71	739	6.41	774
90	0	0	0	0.44	6.96	713	6.65	745
100	0	0	0	0.44	7.2	689	6.89	720
110	0	0	0	0.44	7.38	672	7.12	696
120	0	0	0	0.44	7.52	660	7.35	675
130	0	0	0	0.44	7.66	648	7.57	655
167	0	0	0	0.44	8.16	608	8.16	608
212	0	0	0	0.44	8.74	568	8.74	568

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	12.08	1984	11.98	2000*
20	0	0	0	0.44	10.3	857	10.04	879
30	0	0	0	0.44	10.59	833	10.32	855
40	0	0	0	0.44	10.87	812	10.59	833
50	0	0	0	0.44	11.15	792	10.87	812
60	0	0	0	0.44	11.42	773	11.13	793
70	0	0	0	0.44	11.69	755	11.39	775
80	0	0	0	0.44	11.95	739	11.65	758
90	0	0	0	0.44	12.21	724	11.9	742
100	0	0	0	0.44	12.46	709	12.15	727
110	0	0	0	0.44	12.69	696	12.4	713
120	0	0	0	0.44	12.85	688	12.64	699
130	0	0	0	0.44	13	680	12.87	686
167	0	0	0	0.44	13.55	652	13.55	652
212	0	0	0	0.44	14.2	623	14.2	623

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.217

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	18.86	1990	18.76	2000*
20	0	0	0	0.44	17.08	809	16.82	821
30	0	0	0	0.44	17.36	796	17.1	808
40	0	0	0	0.44	17.64	783	17.37	795
50	0	0	0	0.44	17.92	771	17.64	783
60	0	0	0	0.44	18.19	760	17.9	772
70	0	0	0	0.44	18.46	749	18.17	761
80	0	0	0	0.44	18.72	739	18.42	750
90	0	0	0	0.44	18.98	729	18.68	740
100	0	0	0	0.44	19.24	719	18.93	730
110	0	0	0	0.44	19.49	710	19.18	721
120	0	0	0	0.44	19.67	704	19.43	712
130	0	0	0	0.44	19.83	698	19.68	703
167	0	0	0	0.44	20.41	678	20.41	678
212	0	0	0	0.44	21.11	656	21.11	656

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7
100.00	0-3	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-10	1-0
125.00	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-1	1-4	1-7
150.00	0-6	0-7	0-8	0-9	0-10	1-1	1-3	1-7	1-11	2-3
175.00	0-8	0-9	0-10	1-0	1-2	1-5	1-9	2-2	2-7	3-0
200.00	0-11	1-0	1-2	1-4	1-7	1-10	2-4	2-10	3-5	4-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-4	0-5	0-6	0-6	0-7	0-7
100.00	0-3	0-3	0-4	0-5	0-6	0-8	0-10	0-11	1-0	1-1
125.00	0-5	0-5	0-6	0-8	0-10	1-1	1-3	1-5	1-6	1-8
150.00	0-7	0-8	0-9	0-11	1-2	1-6	1-10	2-1	2-3	2-5
175.00	0-9	0-10	1-1	1-4	1-8	2-1	2-6	2-10	3-0	3-3
200.00	1-0	1-2	1-4	1-8	2-1	2-8	3-3	3-8	3-11	4-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10
125.00	0-7	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-4
150.00	0-9	0-11	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-11
175.00	1-1	1-3	1-4	1-6	1-9	1-11	2-1	2-3	2-5	2-7
200.00	1-5	1-7	1-9	2-0	2-3	2-6	2-8	2-11	3-2	3-4
225.00	1-9	2-0	2-3	2-7	2-10	3-1	3-5	3-8	4-0	4-3
250.00	2-2	2-6	2-10	3-2	3-6	3-10	4-3	4-7	4-11	5-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11
125.00	0-7	0-8	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
150.00	0-11	1-0	1-2	1-3	1-5	1-7	1-8	1-10	1-11	2-0
175.00	1-2	1-4	1-7	1-9	1-11	2-1	2-4	2-6	2-7	2-8
200.00	1-7	1-9	2-0	2-3	2-6	2-9	3-0	3-3	3-5	3-6
225.00	2-0	2-3	2-7	2-11	3-2	3-6	3-10	4-1	4-4	4-6
250.00	2-5	2-10	3-2	3-7	4-0	4-4	4-8	5-1	5-4	5-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.220

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-9
175.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
200.00	2-2	2-3	2-5	2-6	2-7	2-9	2-10	2-11	3-1	3-2
225.00	2-8	2-10	3-0	3-2	3-4	3-6	3-7	3-9	3-11	4-0
250.00	3-4	3-6	3-9	3-11	4-1	4-3	4-5	4-7	4-9	4-11
275.00	4-0	4-3	4-6	4-9	4-11	5-2	5-5	5-7	5-9	6-0
300.00	4-10	5-1	5-4	5-8	5-11	6-2	6-5	6-8	6-11	7-1
325.00	5-8	6-0	6-4	6-7	6-11	7-3	7-6	7-10	8-1	8-4
350.00	6-6	6-11	7-4	7-8	8-0	8-5	8-9	9-1	9-5	9-8
375.00	7-6	7-11	8-5	8-10	9-3	9-7	10-0	10-5	10-9	11-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-10
175.00	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6
200.00	2-3	2-5	2-6	2-8	2-9	2-10	3-0	3-1	3-2	3-3
225.00	2-10	3-0	3-2	3-4	3-6	3-8	3-9	3-11	4-1	4-2
250.00	3-6	3-9	3-11	4-1	4-4	4-6	4-8	4-10	5-0	5-1
275.00	4-3	4-6	4-9	5-0	5-2	5-5	5-8	5-10	6-1	6-2
300.00	5-1	5-4	5-8	5-11	6-2	6-5	6-9	6-11	7-2	7-5
325.00	5-11	6-4	6-8	6-11	7-3	7-7	7-11	8-2	8-5	8-8
350.00	6-11	7-4	7-8	8-1	8-5	8-10	9-2	9-6	9-10	10-1
375.00	7-11	8-5	8-10	9-3	9-8	10-1	10-6	10-11	11-3	11-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.221

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-6	2-7	2-8	2-9	2-9	2-10	2-11	3-0	3-0	3-1
225.00	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
250.00	3-11	4-0	4-2	4-3	4-4	4-5	4-7	4-8	4-9	4-10
275.00	4-9	4-10	5-0	5-2	5-3	5-5	5-6	5-7	5-9	5-10
300.00	5-8	5-10	5-11	6-1	6-3	6-5	6-7	6-8	6-10	7-0
325.00	6-7	6-10	7-0	7-2	7-4	7-6	7-8	7-10	8-0	8-2
350.00	7-8	7-11	8-1	8-4	8-6	8-9	8-11	9-1	9-4	9-6
375.00	8-10	9-1	9-4	9-7	9-9	10-0	10-3	10-6	10-8	10-11
400.00	10-0	10-4	10-7	10-10	11-2	11-5	11-8	11-11	12-2	12-5
425.00	11-4	11-8	12-0	12-3	12-7	12-10	13-2	13-5	13-9	14-0
450.00	12-8	13-1	13-5	13-9	14-1	14-5	14-9	15-1	15-5	15-8
475.00	14-2	14-7	14-11	15-4	15-8	16-1	16-5	16-10	17-2	17-6
500.00	15-8	16-2	16-7	17-0	17-5	17-10	18-3	18-7	19-0	19-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-7	2-8	2-9	2-9	2-10	2-11	3-0	3-1	3-1	3-2
225.00	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
250.00	4-0	4-2	4-3	4-4	4-6	4-7	4-8	4-9	4-10	4-11
275.00	4-10	5-0	5-2	5-3	5-5	5-6	5-8	5-9	5-11	6-0
300.00	5-10	5-11	6-1	6-3	6-5	6-7	6-9	6-10	7-0	7-2
325.00	6-10	7-0	7-2	7-4	7-6	7-9	7-11	8-1	8-3	8-4
350.00	7-11	8-1	8-4	8-6	8-9	8-11	9-2	9-4	9-6	9-9
375.00	9-1	9-4	9-7	9-10	10-0	10-3	10-6	10-9	10-11	11-2
400.00	10-4	10-7	10-10	11-2	11-5	11-8	11-11	12-2	12-5	12-8
425.00	11-8	11-11	12-3	12-7	12-11	13-2	13-6	13-9	14-1	14-4
450.00	13-0	13-5	13-9	14-1	14-6	14-10	15-2	15-5	15-9	16-1
475.00	14-6	14-11	15-4	15-9	16-1	16-6	16-10	17-3	17-7	17-11
500.00	16-1	16-7	17-0	17-5	17-10	18-3	18-8	19-1	19-6	19-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.222

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-2	4-3	4-4	4-5	4-6	4-6	4-7	4-8	4-9	4-9
275.00	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10
300.00	6-1	6-2	6-3	6-4	6-5	6-6	6-8	6-9	6-10	6-11
325.00	7-1	7-3	7-4	7-5	7-7	7-8	7-9	7-11	8-0	8-1
350.00	8-3	8-4	8-6	8-8	8-9	8-11	9-0	9-2	9-3	9-5
375.00	9-5	9-7	9-9	9-11	10-1	10-3	10-4	10-6	10-8	10-9
400.00	10-9	10-11	11-1	11-3	11-5	11-7	11-9	11-11	12-1	12-3
425.00	12-2	12-4	12-7	12-9	12-11	13-1	13-4	13-6	13-8	13-10
450.00	13-7	13-10	14-1	14-3	14-6	14-9	14-11	15-2	15-4	15-6
475.00	15-2	15-5	15-8	15-11	16-2	16-5	16-8	16-10	17-1	17-4
500.00	16-10	17-1	17-4	17-8	17-11	18-2	18-5	18-8	18-11	19-2
525.00	18-7	18-10	19-2	19-5	19-9	20-0	20-4	20-7	20-11	21-2
550.00	20-4	20-8	21-0	21-4	21-8	22-0	22-4	22-7	22-11	23-3
575.00	22-3	22-7	23-0	23-4	23-8	24-0	24-5	24-9	25-1	25-5
600.00	24-3	24-8	25-0	25-5	25-10	26-2	26-7	26-11	27-3	27-8
625.00	26-4	26-9	27-2	27-7	28-0	28-5	28-10	29-3	29-7	30-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-3	4-4	4-5	4-6	4-6	4-7	4-8	4-9	4-10	4-10
275.00	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11
300.00	6-2	6-3	6-4	6-5	6-6	6-8	6-9	6-10	6-11	7-0
325.00	7-3	7-4	7-5	7-7	7-8	7-9	7-11	8-0	8-1	8-3
350.00	8-4	8-6	8-8	8-9	8-11	9-0	9-2	9-4	9-5	9-7
375.00	9-7	9-9	9-11	10-1	10-3	10-4	10-6	10-8	10-10	10-11
400.00	10-11	11-1	11-3	11-6	11-8	11-10	12-0	12-2	12-4	12-6
425.00	12-4	12-6	12-9	12-11	13-2	13-4	13-6	13-8	13-11	14-1
450.00	13-10	14-1	14-3	14-6	14-9	14-11	15-2	15-4	15-7	15-9
475.00	15-5	15-8	15-11	16-2	16-5	16-8	16-11	17-2	17-4	17-7
500.00	17-1	17-4	17-8	17-11	18-2	18-5	18-9	19-0	19-3	19-6
525.00	18-10	19-2	19-5	19-9	20-1	20-4	20-8	20-11	21-3	21-6
550.00	20-8	21-0	21-4	21-8	22-0	22-4	22-8	23-0	23-3	23-7
575.00	22-7	23-0	23-4	23-8	24-1	24-5	24-9	25-1	25-6	25-10
600.00	24-7	25-0	25-5	25-10	26-3	26-7	27-0	27-4	27-9	28-1
625.00	26-9	27-2	27-7	28-0	28-5	28-10	29-3	29-8	30-1	30-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.223

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	0.72	2076	0.6	2500*
20	0	0	0	0.44	0.2	2725	0.18	3066
30	0	0	0	0.44	0.23	2379	0.2	2811
40	0	0	0	0.44	0.27	2040	0.22	2551
50	0	0	0	0.44	0.32	1710	0.24	2288
60	0	0	0	0.44	0.39	1399	0.27	2023
70	0	0	0	0.44	0.49	1119	0.31	1758
80	0	0	0	0.44	0.62	888	0.37	1497
90	0	0	0	0.44	0.71	775	0.44	1248
100	0	0	0	0.44	0.77	715	0.54	1022
110	0	0	0	0.44	0.83	661	0.66	832
120	0	0	0	0.44	0.9	611	0.8	686
130	0	0	0	0.44	0.97	567	0.95	580
167	0	0	0	0.44	1.25	441	1.23	446
212	0	0	0	0.44	1.58	349	1.57	352

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	2.58	2313	2.39	2500*
20	0	0	0	0.44	1.03	2142	0.9	2447
30	0	0	0	0.44	1.18	1861	1	2209
40	0	0	0	0.44	1.37	1609	1.11	1977
50	0	0	0	0.44	1.58	1392	1.25	1757
60	0	0	0	0.44	1.82	1212	1.42	1552
70	0	0	0	0.44	2.06	1067	1.61	1369
80	0	0	0	0.44	2.31	952	1.82	1211
90	0	0	0	0.44	2.56	860	2.04	1078
100	0	0	0	0.44	2.75	799	2.27	969
110	0	0	0	0.44	2.87	766	2.5	879
120	0	0	0	0.44	2.99	735	2.73	806
130	0	0	0	0.44	3.11	707	2.95	745
167	0	0	0	0.44	3.55	620	3.54	622
212	0	0	0	0.44	4.06	542	4.05	544

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	5.57	2417	5.38	2500*
20	0	0	0	0.44	3.29	1506	2.91	1700
30	0	0	0	0.44	3.61	1370	3.19	1553
40	0	0	0	0.44	3.94	1257	3.48	1424
50	0	0	0	0.44	4.27	1161	3.77	1313
60	0	0	0	0.44	4.58	1081	4.07	1216
70	0	0	0	0.44	4.89	1013	4.37	1133
80	0	0	0	0.44	5.19	954	4.67	1062
90	0	0	0	0.44	5.49	903	4.96	1000
100	0	0	0	0.44	5.77	859	5.24	946
110	0	0	0	0.44	6.02	824	5.52	899
120	0	0	0	0.44	6.17	804	5.79	857
130	0	0	0	0.44	6.32	785	6.05	820
167	0	0	0	0.44	6.87	722	6.86	723
212	0	0	0	0.44	7.51	660	7.5	661

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	9.75	2456	9.57	2500*
20	0	0	0	0.44	7.28	1210	6.81	1293
30	0	0	0	0.44	7.65	1153	7.16	1230
40	0	0	0	0.44	8	1102	7.5	1174
50	0	0	0	0.44	8.34	1056	7.84	1124
60	0	0	0	0.44	8.68	1016	8.17	1079
70	0	0	0	0.44	9.01	979	8.49	1038
80	0	0	0	0.44	9.33	946	8.81	1001
90	0	0	0	0.44	9.64	915	9.12	967
100	0	0	0	0.44	9.94	887	9.42	936
110	0	0	0	0.44	10.24	862	9.72	907
120	0	0	0	0.44	10.47	843	10.01	881
130	0	0	0	0.44	10.65	829	10.3	857
167	0	0	0	0.44	11.27	783	11.27	784
212	0	0	0	0.44	12.01	735	12	736

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.225

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	15.14	2473	14.98	2500*
20	0	0	0	0.44	12.64	1091	12.17	1132
30	0	0	0	0.44	13	1061	12.53	1100
40	0	0	0	0.44	13.35	1033	12.87	1071
50	0	0	0	0.44	13.7	1007	13.21	1044
60	0	0	0	0.44	14.04	983	13.54	1018
70	0	0	0	0.44	14.37	960	13.87	994
80	0	0	0	0.44	14.7	939	14.19	972
90	0	0	0	0.44	15.02	919	14.51	951
100	0	0	0	0.44	15.34	900	14.82	931
110	0	0	0	0.44	15.65	882	15.13	912
120	0	0	0	0.44	15.95	866	15.43	894
130	0	0	0	0.44	16.13	856	15.73	877
167	0	0	0	0.44	16.81	821	16.8	822
212	0	0	0	0.44	17.62	784	17.61	785

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DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-4	0-4
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10	1-0
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-3	1-6
175.00	0-7	0-7	0-8	0-9	0-10	0-11	1-2	1-4	1-8	2-0
200.00	0-9	0-9	0-10	1-0	1-1	1-3	1-6	1-9	2-2	2-8

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-5	0-6
100.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-9	0-10
125.00	0-4	0-4	0-5	0-6	0-7	0-9	1-0	1-1	1-2	1-4
150.00	0-5	0-6	0-7	0-9	0-11	1-1	1-5	1-7	1-9	1-10
175.00	0-7	0-8	0-10	1-0	1-2	1-6	1-11	2-2	2-4	2-7
200.00	0-10	0-11	1-1	1-3	1-7	2-0	2-6	2-10	3-1	3-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.227

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8
125.00	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
150.00	0-6	0-7	0-8	0-8	0-10	0-11	1-0	1-2	1-3	1-5
175.00	0-8	0-9	0-10	1-0	1-1	1-3	1-5	1-7	1-9	1-11
200.00	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-1	2-3	2-6
225.00	1-2	1-3	1-5	1-7	1-10	2-0	2-4	2-7	2-11	3-2
250.00	1-5	1-7	1-9	1-11	2-3	2-6	2-10	3-2	3-7	3-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9
125.00	0-5	0-6	0-6	0-7	0-9	0-10	0-11	1-0	1-1	1-1
150.00	0-7	0-8	0-9	0-11	1-0	1-2	1-4	1-5	1-7	1-7
175.00	0-9	0-11	1-1	1-3	1-5	1-7	1-9	2-0	2-1	2-2
200.00	1-0	1-2	1-4	1-7	1-10	2-1	2-4	2-7	2-9	2-10
225.00	1-4	1-6	1-9	2-0	2-4	2-7	2-11	3-3	3-6	3-8
250.00	1-7	1-10	2-2	2-6	2-10	3-3	3-7	4-0	4-4	4-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.228

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
175.00	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-8	1-9	1-11
200.00	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-5
225.00	1-8	1-10	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-1
250.00	2-0	2-3	2-5	2-7	2-10	3-0	3-3	3-5	3-8	3-10
275.00	2-5	2-8	2-11	3-2	3-5	3-8	3-11	4-2	4-5	4-8
300.00	2-11	3-2	3-6	3-9	4-1	4-4	4-8	4-11	5-3	5-6
325.00	3-5	3-9	4-1	4-5	4-9	5-2	5-6	5-10	6-2	6-6
350.00	4-0	4-4	4-9	5-2	5-7	5-11	6-4	6-9	7-2	7-6
375.00	4-7	5-0	5-5	5-11	6-4	6-10	7-4	7-9	8-2	8-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-4	1-5	1-6
175.00	1-1	1-3	1-4	1-5	1-7	1-8	1-9	1-10	2-0	2-1
200.00	1-6	1-7	1-9	1-11	2-0	2-2	2-4	2-5	2-7	2-8
225.00	1-10	2-0	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5
250.00	2-3	2-6	2-9	3-0	3-2	3-5	3-7	3-10	4-0	4-2
275.00	2-9	3-0	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-1
300.00	3-3	3-7	3-11	4-3	4-7	4-11	5-2	5-6	5-9	6-0
325.00	3-10	4-3	4-8	5-0	5-5	5-9	6-1	6-5	6-9	7-1
350.00	4-6	4-11	5-4	5-10	6-3	6-8	7-1	7-6	7-10	8-2
375.00	5-2	5-8	6-2	6-8	7-2	7-8	8-1	8-7	9-0	9-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.229

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-8	1-9	1-11	2-0	2-1	2-1	2-2	2-3	2-4	2-5
225.00	2-2	2-3	2-4	2-6	2-7	2-8	2-9	2-11	3-0	3-1
250.00	2-8	2-10	2-11	3-1	3-2	3-4	3-5	3-7	3-8	3-10
275.00	3-3	3-5	3-7	3-8	3-10	4-0	4-2	4-4	4-5	4-7
300.00	3-10	4-0	4-3	4-5	4-7	4-9	4-11	5-2	5-4	5-6
325.00	4-6	4-9	4-11	5-2	5-5	5-7	5-10	6-0	6-3	6-5
350.00	5-3	5-6	5-9	6-0	6-3	6-6	6-9	7-0	7-3	7-5
375.00	6-0	6-4	6-7	6-11	7-2	7-6	7-9	8-0	8-3	8-7
400.00	6-10	7-2	7-6	7-10	8-2	8-6	8-10	9-1	9-5	9-9
425.00	7-8	8-1	8-6	8-10	9-3	9-7	9-11	10-4	10-8	11-0
450.00	8-7	9-1	9-6	9-11	10-4	10-9	11-2	11-7	11-11	12-4
475.00	9-7	10-1	10-7	11-1	11-6	12-0	12-5	12-10	13-4	13-9
500.00	10-8	11-2	11-9	12-3	12-9	13-3	13-9	14-3	14-9	15-2

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
225.00	2-4	2-5	2-6	2-8	2-9	2-10	2-11	3-1	3-2	3-3
250.00	2-10	3-0	3-1	3-3	3-5	3-6	3-8	3-9	3-11	4-0
275.00	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-7	4-8	4-10
300.00	4-1	4-4	4-6	4-8	4-11	5-1	5-3	5-5	5-7	5-9
325.00	4-10	5-1	5-3	5-6	5-9	5-11	6-2	6-4	6-7	6-9
350.00	5-7	5-10	6-1	6-5	6-8	6-11	7-2	7-5	7-7	7-10
375.00	6-5	6-9	7-0	7-4	7-8	7-11	8-2	8-6	8-9	9-0
400.00	7-3	7-8	8-0	8-4	8-8	9-0	9-4	9-8	9-11	10-3
425.00	8-3	8-8	9-0	9-5	9-10	10-2	10-6	10-11	11-3	11-7
450.00	9-3	9-8	10-2	10-7	11-0	11-5	11-10	12-2	12-7	13-0
475.00	10-3	10-9	11-3	11-9	12-3	12-8	13-2	13-7	14-0	14-5
500.00	11-5	11-11	12-6	13-1	13-7	14-1	14-7	15-1	15-7	16-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.230

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-7	3-8	3-9
275.00	3-8	3-9	3-11	4-0	4-1	4-2	4-3	4-5	4-6	4-7
300.00	4-5	4-6	4-8	4-9	4-10	5-0	5-1	5-3	5-4	5-5
325.00	5-2	5-3	5-5	5-7	5-9	5-10	6-0	6-2	6-3	6-5
350.00	6-0	6-2	6-4	6-6	6-8	6-10	6-11	7-1	7-3	7-5
375.00	6-10	7-1	7-3	7-5	7-7	7-10	8-0	8-2	8-4	8-6
400.00	7-9	8-0	8-3	8-5	8-8	8-10	9-1	9-3	9-6	9-8
425.00	8-10	9-1	9-4	9-7	9-9	10-0	10-3	10-6	10-8	10-11
450.00	9-10	10-2	10-5	10-8	11-0	11-3	11-6	11-9	12-0	12-3
475.00	11-0	11-4	11-7	11-11	12-3	12-6	12-10	13-1	13-5	13-8
500.00	12-2	12-6	12-10	13-3	13-7	13-10	14-2	14-6	14-10	15-2
525.00	13-5	13-10	14-2	14-7	14-11	15-4	15-8	16-0	16-4	16-8
550.00	14-9	15-2	15-7	16-0	16-5	16-9	17-2	17-7	17-11	18-4
575.00	16-1	16-7	17-0	17-6	17-11	18-4	18-9	19-2	19-7	20-0
600.00	17-6	18-1	18-6	19-0	19-6	20-0	20-5	20-11	21-4	21-10
625.00	19-0	19-7	20-1	20-8	21-2	21-8	22-2	22-8	23-2	23-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
275.00	3-10	3-11	4-0	4-2	4-3	4-4	4-5	4-6	4-8	4-9
300.00	4-7	4-8	4-10	4-11	5-1	5-2	5-3	5-5	5-6	5-8
325.00	5-4	5-6	5-8	5-9	5-11	6-1	6-2	6-4	6-6	6-7
350.00	6-2	6-4	6-6	6-9	6-11	7-0	7-2	7-4	7-6	7-8
375.00	7-1	7-4	7-6	7-8	7-11	8-1	8-3	8-5	8-7	8-10
400.00	8-1	8-4	8-7	8-9	9-0	9-2	9-5	9-7	9-10	10-0
425.00	9-2	9-5	9-8	9-11	10-2	10-5	10-7	10-10	11-1	11-4
450.00	10-3	10-6	10-10	11-1	11-4	11-8	11-11	12-2	12-5	12-8
475.00	11-5	11-9	12-1	12-4	12-8	13-0	13-3	13-7	13-10	14-1
500.00	12-8	13-0	13-4	13-8	14-0	14-4	14-8	15-0	15-4	15-8
525.00	13-11	14-4	14-9	15-1	15-6	15-10	16-2	16-7	16-11	17-3
550.00	15-4	15-9	16-2	16-7	17-0	17-5	17-9	18-2	18-7	18-11
575.00	16-9	17-2	17-8	18-1	18-7	19-0	19-5	19-10	20-3	20-8
600.00	18-2	18-9	19-3	19-9	20-3	20-8	21-2	21-8	22-1	22-7
625.00	19-9	20-4	20-11	21-5	21-11	22-6	23-0	23-6	24-0	24-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.231

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	0.63	2374	0.5	3000*
20	0	0	0	0.44	0.18	3121	0.15	3610
30	0	0	0	0.44	0.2	2772	0.16	3364
40	0	0	0	0.44	0.23	2426	0.18	3112
50	0	0	0	0.44	0.26	2086	0.19	2856
60	0	0	0	0.44	0.31	1754	0.21	2595
70	0	0	0	0.44	0.38	1440	0.24	2330
80	0	0	0	0.44	0.48	1155	0.27	2063
90	0	0	0	0.44	0.57	966	0.31	1796
100	0	0	0	0.44	0.61	895	0.36	1532
110	0	0	0	0.44	0.66	829	0.43	1279
120	0	0	0	0.44	0.72	766	0.52	1048
130	0	0	0	0.44	0.78	707	0.65	852
167	0	0	0	0.44	1.03	533	1	549
212	0	0	0	0.44	1.37	402	1.34	410

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	2.26	2647	1.99	3000*
20	0	0	0	0.44	0.8	2734	0.69	3183
30	0	0	0	0.44	0.91	2418	0.75	2940
40	0	0	0	0.44	1.04	2117	0.82	2696
50	0	0	0	0.44	1.2	1838	0.9	2452
60	0	0	0	0.44	1.38	1589	1	2211
70	0	0	0	0.44	1.6	1375	1.11	1977
80	0	0	0	0.44	1.84	1198	1.25	1754
90	0	0	0	0.44	2.08	1056	1.42	1548
100	0	0	0	0.44	2.28	964	1.61	1364
110	0	0	0	0.44	2.39	919	1.83	1206
120	0	0	0	0.44	2.51	877	2.05	1073
130	0	0	0	0.44	2.63	838	2.28	964
167	0	0	0	0.44	3.07	718	3.03	727
212	0	0	0	0.44	3.6	612	3.56	618

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	4.77	2818	4.48	3000*
20	0	0	0	0.44	2.29	2164	1.95	2542
30	0	0	0	0.44	2.56	1936	2.12	2330
40	0	0	0	0.44	2.85	1736	2.33	2128
50	0	0	0	0.44	3.17	1564	2.55	1939
60	0	0	0	0.44	3.49	1419	2.8	1765
70	0	0	0	0.44	3.82	1298	3.08	1610
80	0	0	0	0.44	4.14	1196	3.36	1473
90	0	0	0	0.44	4.46	1110	3.66	1354
100	0	0	0	0.44	4.78	1038	3.96	1251
110	0	0	0	0.44	5.05	981	4.26	1163
120	0	0	0	0.44	5.21	951	4.56	1087
130	0	0	0	0.44	5.37	923	4.85	1021
167	0	0	0	0.44	5.94	834	5.88	843
212	0	0	0	0.44	6.63	748	6.59	752

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	8.25	2901	7.97	3000*
20	0	0	0	0.44	5.18	1699	4.56	1932
30	0	0	0	0.44	5.58	1578	4.9	1798
40	0	0	0	0.44	5.98	1474	5.25	1678
50	0	0	0	0.44	6.37	1384	5.61	1571
60	0	0	0	0.44	6.75	1305	5.97	1477
70	0	0	0	0.44	7.13	1237	6.33	1393
80	0	0	0	0.44	7.49	1176	6.68	1318
90	0	0	0	0.44	7.85	1123	7.04	1252
100	0	0	0	0.44	8.2	1075	7.38	1193
110	0	0	0	0.44	8.54	1032	7.72	1141
120	0	0	0	0.44	8.84	997	8.06	1094
130	0	0	0	0.44	9.03	977	8.39	1051
167	0	0	0	0.44	9.7	909	9.54	924
212	0	0	0	0.44	10.5	840	10.47	843

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.233

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.194	12.72	2941	12.47	3000*
20	0	0	0	0.44	9.46	1455	8.74	1576
30	0	0	0	0.44	9.89	1392	9.14	1506
40	0	0	0	0.44	10.31	1336	9.55	1442
50	0	0	0	0.44	10.72	1285	9.95	1385
60	0	0	0	0.44	11.12	1239	10.34	1332
70	0	0	0	0.44	11.52	1196	10.73	1284
80	0	0	0	0.44	11.9	1158	11.11	1241
90	0	0	0	0.44	12.28	1123	11.48	1200
100	0	0	0	0.44	12.65	1090	11.85	1163
110	0	0	0	0.44	13.01	1060	12.21	1129
120	0	0	0	0.44	13.36	1032	12.56	1097
130	0	0	0	0.44	13.64	1011	12.91	1068
167	0	0	0	0.44	14.39	959	14.14	975
212	0	0	0	0.44	15.27	904	15.24	905

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.234

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5
125.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8
150.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10	1-0
175.00	0-6	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-4
200.00	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-4
100.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-7	0-8
125.00	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-0	1-0
150.00	0-5	0-5	0-6	0-7	0-8	0-10	1-1	1-3	1-5	1-6
175.00	0-6	0-7	0-8	0-10	1-0	1-2	1-6	1-9	1-11	2-0
200.00	0-8	0-10	0-11	1-1	1-3	1-6	1-11	2-3	2-5	2-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.235

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5
125.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-10	0-11	1-0
175.00	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-5
200.00	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-7	1-10
225.00	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-10	2-0	2-4
250.00	1-1	1-2	1-3	1-5	1-7	1-9	2-0	2-3	2-6	2-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-7
125.00	0-4	0-4	0-5	0-6	0-6	0-8	0-9	0-10	0-11	0-11
150.00	0-5	0-6	0-7	0-8	0-9	0-11	1-0	1-2	1-3	1-4
175.00	0-7	0-8	0-10	0-11	1-1	1-3	1-5	1-7	1-9	1-10
200.00	0-10	0-11	1-0	1-2	1-5	1-7	1-10	2-1	2-3	2-5
225.00	1-0	1-2	1-4	1-6	1-9	2-0	2-4	2-8	2-11	3-0
250.00	1-3	1-5	1-7	1-10	2-2	2-6	2-10	3-3	3-7	3-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.236

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
175.00	0-8	0-9	0-10	0-10	0-11	1-1	1-2	1-3	1-4	1-5
200.00	0-10	0-11	1-0	1-2	1-3	1-4	1-6	1-8	1-9	1-11
225.00	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-5
250.00	1-4	1-6	1-7	1-9	1-11	2-2	2-4	2-6	2-9	3-0
275.00	1-8	1-9	1-11	2-2	2-4	2-7	2-10	3-1	3-4	3-7
300.00	1-11	2-1	2-4	2-7	2-10	3-1	3-4	3-8	4-0	4-3
325.00	2-3	2-6	2-9	3-0	3-4	3-7	3-11	4-4	4-8	5-0
350.00	2-8	2-11	3-2	3-6	3-10	4-2	4-7	5-0	5-5	5-10
375.00	3-1	3-4	3-8	4-0	4-5	4-10	5-3	5-9	6-2	6-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3
175.00	0-9	0-10	1-0	1-1	1-2	1-4	1-5	1-6	1-7	1-9
200.00	1-0	1-2	1-3	1-5	1-7	1-8	1-10	2-0	2-1	2-3
225.00	1-3	1-5	1-7	1-9	2-0	2-2	2-4	2-6	2-8	2-10
250.00	1-7	1-9	2-0	2-2	2-5	2-8	2-11	3-1	3-4	3-6
275.00	1-11	2-2	2-5	2-8	2-11	3-2	3-6	3-9	4-0	4-3
300.00	2-3	2-7	2-10	3-2	3-6	3-10	4-2	4-6	4-9	5-1
325.00	2-8	3-0	3-4	3-9	4-1	4-6	4-10	5-3	5-7	5-11
350.00	3-1	3-6	3-11	4-4	4-9	5-2	5-8	6-1	6-6	6-11
375.00	3-7	4-0	4-5	4-11	5-5	6-0	6-6	7-0	7-6	7-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.237

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
225.00	1-5	1-7	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5
250.00	1-9	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-11	3-0
275.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
300.00	2-7	2-9	2-11	3-2	3-4	3-7	3-9	3-11	4-2	4-4
325.00	3-0	3-3	3-6	3-8	3-11	4-2	4-5	4-8	4-10	5-1
350.00	3-6	3-9	4-0	4-3	4-7	4-10	5-1	5-5	5-8	5-11
375.00	4-0	4-4	4-7	4-11	5-3	5-7	5-10	6-2	6-6	6-9
400.00	4-7	4-11	5-3	5-7	6-0	6-4	6-8	7-0	7-5	7-9
425.00	5-2	5-6	5-11	6-4	6-9	7-2	7-7	7-11	8-4	8-9
450.00	5-9	6-2	6-8	7-1	7-7	8-0	8-6	8-11	9-4	9-9
475.00	6-5	6-11	7-5	7-11	8-5	8-11	9-5	9-11	10-5	10-11
500.00	7-1	7-8	8-2	8-9	9-4	9-11	10-5	11-0	11-6	12-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-4	1-5	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-2
225.00	1-8	1-9	1-11	2-0	2-2	2-3	2-4	2-6	2-7	2-8
250.00	2-0	2-2	2-4	2-6	2-8	2-9	2-11	3-1	3-2	3-4
275.00	2-5	2-8	2-10	3-0	3-2	3-4	3-6	3-9	3-10	4-0
300.00	2-11	3-2	3-4	3-7	3-10	4-0	4-3	4-5	4-7	4-10
325.00	3-5	3-8	3-11	4-2	4-5	4-8	4-11	5-2	5-5	5-8
350.00	4-0	4-3	4-7	4-10	5-2	5-5	5-9	6-0	6-3	6-6
375.00	4-7	4-11	5-3	5-7	5-11	6-3	6-7	6-11	7-2	7-6
400.00	5-2	5-7	6-0	6-4	6-9	7-2	7-6	7-10	8-2	8-6
425.00	5-10	6-4	6-9	7-2	7-7	8-1	8-6	8-10	9-3	9-8
450.00	6-7	7-1	7-7	8-1	8-7	9-0	9-6	9-11	10-5	10-10
475.00	7-4	7-10	8-5	9-0	9-6	10-1	10-7	11-1	11-7	12-1
500.00	8-1	8-9	9-4	9-11	10-7	11-2	11-9	12-3	12-10	13-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.238

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-2	2-3	2-5	2-6	2-7	2-8	2-9	2-10	3-0	3-1
275.00	2-8	2-9	2-11	3-0	3-2	3-3	3-4	3-6	3-7	3-8
300.00	3-2	3-3	3-5	3-7	3-9	3-10	4-0	4-2	4-3	4-5
325.00	3-8	3-10	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-2
350.00	4-3	4-6	4-8	4-10	5-1	5-3	5-5	5-7	5-10	6-0
375.00	4-11	5-2	5-4	5-7	5-10	6-0	6-3	6-5	6-8	6-10
400.00	5-7	5-10	6-1	6-4	6-7	6-10	7-1	7-4	7-7	7-10
425.00	6-4	6-7	6-11	7-2	7-6	7-9	8-0	8-4	8-7	8-10
450.00	7-1	7-5	7-9	8-1	8-4	8-8	9-0	9-4	9-7	9-11
475.00	7-11	8-3	8-7	9-0	9-4	9-8	10-0	10-4	10-8	11-0
500.00	8-9	9-2	9-7	9-11	10-4	10-9	11-1	11-6	11-10	12-2
525.00	9-8	10-1	10-6	11-0	11-5	11-10	12-3	12-8	13-1	13-6
550.00	10-7	11-1	11-7	12-0	12-6	13-0	13-5	13-11	14-4	14-9
575.00	11-7	12-1	12-8	13-2	13-8	14-2	14-8	15-2	15-8	16-2
600.00	12-7	13-2	13-9	14-4	14-11	15-5	16-0	16-6	17-1	17-7
625.00	13-8	14-3	14-11	15-7	16-2	16-9	17-4	17-11	18-6	19-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-4	2-6	2-7	2-8	2-9	2-11	3-0	3-1	3-2	3-3
275.00	2-10	3-0	3-1	3-3	3-4	3-6	3-7	3-9	3-10	3-11
300.00	3-5	3-7	3-9	3-10	4-0	4-2	4-3	4-5	4-7	4-8
325.00	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-2	5-4	5-6
350.00	4-8	4-10	5-1	5-3	5-5	5-8	5-10	6-0	6-2	6-4
375.00	5-4	5-7	5-10	6-0	6-3	6-6	6-8	6-11	7-1	7-4
400.00	6-1	6-4	6-7	6-10	7-1	7-4	7-7	7-10	8-1	8-4
425.00	6-10	7-2	7-5	7-9	8-0	8-4	8-7	8-10	9-2	9-5
450.00	7-8	8-0	8-4	8-8	9-0	9-4	9-8	9-11	10-3	10-6
475.00	8-6	8-11	9-4	9-8	10-0	10-5	10-9	11-1	11-5	11-9
500.00	9-6	9-11	10-4	10-9	11-1	11-6	11-11	12-3	12-8	13-0
525.00	10-5	10-11	11-4	11-10	12-3	12-8	13-1	13-6	13-11	14-4
550.00	11-5	12-0	12-6	13-0	13-6	13-11	14-5	14-10	15-4	15-9
575.00	12-6	13-1	13-8	14-2	14-9	15-3	15-9	16-3	16-9	17-2
600.00	13-8	14-3	14-10	15-5	16-0	16-7	17-2	17-8	18-3	18-9
625.00	14-9	15-5	16-1	16-9	17-5	18-0	18-7	19-2	19-9	20-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.239

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	1.49	1000	1.49	1000*
0	0	0	0	0.44	0.97	568	0.95	580
30	0	0	0	0.44	1.4	394	1.36	405
40	0	0	0	0.44	1.52	362	1.48	372
50	0	0	0	0.44	1.64	336	1.6	345
60	0	0	0	0.44	1.75	314	1.71	322
70	0	0	0	0.44	1.86	296	1.81	304
80	0	0	0	0.44	1.94	284	1.91	288
90	0	0	0	0.44	2	275	2	275
100	0	0	0	0.44	2.06	267	2.06	267
110	0	0	0	0.44	2.12	260	2.12	260
120	0	0	0	0.44	2.18	253	2.18	253
130	0	0	0	0.44	2.24	246	2.24	246
167	0	0	0	0.44	2.44	226	2.44	226
212	0	0	0	0.44	2.67	207	2.67	207

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	5.99	1000	5.99	1000*
0	0	0	0	0.44	5.47	403	5.43	407
30	0	0	0	0.44	5.89	375	5.85	377
40	0	0	0	0.44	6.02	367	5.98	369
50	0	0	0	0.44	6.15	359	6.1	362
60	0	0	0	0.44	6.28	352	6.23	355
70	0	0	0	0.44	6.4	345	6.35	348
80	0	0	0	0.44	6.53	338	6.47	341
90	0	0	0	0.44	6.62	334	6.59	335
100	0	0	0	0.44	6.69	330	6.69	330
110	0	0	0	0.44	6.77	326	6.77	326
120	0	0	0	0.44	6.85	323	6.85	323
130	0	0	0	0.44	6.92	319	6.92	319
167	0	0	0	0.44	7.2	307	7.2	307
212	0	0	0	0.44	7.52	294	7.52	294

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	13.54	1000	13.54	1000*
0	0	0	0	0.44	13.03	383	12.97	384
30	0	0	0	0.44	13.44	371	13.4	372
40	0	0	0	0.44	13.57	368	13.53	369
50	0	0	0	0.44	13.71	364	13.66	365
60	0	0	0	0.44	13.84	361	13.79	362
70	0	0	0	0.44	13.97	357	13.91	359
80	0	0	0	0.44	14.1	354	14.04	356
90	0	0	0	0.44	14.2	352	14.16	353
100	0	0	0	0.44	14.29	350	14.28	350
110	0	0	0	0.44	14.37	348	14.37	348
120	0	0	0	0.44	14.45	346	14.45	346
130	0	0	0	0.44	14.53	344	14.53	344
167	0	0	0	0.44	14.84	337	14.84	337
212	0	0	0	0.44	15.2	329	15.2	329

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	24.23	1000	24.23	1000*
0	0	0	0	0.44	23.72	376	23.66	377
30	0	0	0	0.44	24.13	370	24.09	371
40	0	0	0	0.44	24.26	368	24.22	369
50	0	0	0	0.44	24.4	366	24.35	367
60	0	0	0	0.44	24.53	364	24.48	365
70	0	0	0	0.44	24.66	362	24.61	363
80	0	0	0	0.44	24.79	360	24.73	361
90	0	0	0	0.44	24.9	359	24.86	359
100	0	0	0	0.44	24.99	358	24.99	358
110	0	0	0	0.44	25.08	356	25.08	356
120	0	0	0	0.44	25.16	355	25.16	355
130	0	0	0	0.44	25.25	354	25.25	354
167	0	0	0	0.44	25.56	350	25.56	350
212	0	0	0	0.44	25.94	345	25.94	345

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.241

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	38.19	1000	38.19	1000*
0	0	0	0	0.44	37.68	373	37.62	374
30	0	0	0	0.44	38.08	369	38.04	370
40	0	0	0	0.44	38.22	368	38.17	369
50	0	0	0	0.44	38.35	367	38.3	367
60	0	0	0	0.44	38.48	366	38.43	366
70	0	0	0	0.44	38.62	365	38.56	365
80	0	0	0	0.44	38.75	363	38.69	364
90	0	0	0	0.44	38.86	362	38.82	363
100	0	0	0	0.44	38.95	362	38.95	362
110	0	0	0	0.44	39.04	361	39.04	361
120	0	0	0	0.44	39.13	360	39.13	360
130	0	0	0	0.44	39.21	359	39.21	359
167	0	0	0	0.44	39.54	357	39.54	357
212	0	0	0	0.44	39.92	353	39.92	353

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-2
100.00	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-1
125.00	1-11	2-1	2-4	2-6	2-8	2-10	3-0	3-2	3-3	3-4
150.00	2-9	3-1	3-4	3-7	3-10	4-1	4-4	4-6	4-8	4-9
175.00	3-9	4-2	4-6	4-11	5-3	5-7	5-10	6-2	6-4	6-6
200.00	4-11	5-5	5-11	6-5	6-10	7-3	7-8	8-0	8-3	8-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-2	1-2
100.00	1-3	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-1
125.00	2-0	2-2	2-5	2-7	2-9	2-11	3-0	3-2	3-3	3-4
150.00	2-10	3-2	3-5	3-8	3-11	4-2	4-4	4-6	4-8	4-9
175.00	3-10	4-3	4-8	5-0	5-4	5-8	5-11	6-2	6-4	6-6
200.00	5-1	5-7	6-1	6-7	7-0	7-5	7-9	8-0	8-3	8-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

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Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-6	1-6	1-6	1-7	1-7	1-7	1-8	1-8	1-8
125.00	2-3	2-3	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-8
150.00	3-3	3-3	3-4	3-5	3-6	3-7	3-8	3-8	3-9	3-10
175.00	4-5	4-6	4-7	4-8	4-9	4-10	4-11	5-1	5-1	5-2
200.00	5-9	5-10	6-0	6-1	6-3	6-4	6-6	6-7	6-8	6-9
225.00	7-3	7-5	7-7	7-9	7-11	8-1	8-2	8-4	8-6	8-7
250.00	8-11	9-2	9-4	9-7	9-9	9-11	10-1	10-4	10-6	10-7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-6	1-6	1-6	1-7	1-7	1-8	1-8	1-8	1-8
125.00	2-3	2-4	2-4	2-5	2-5	2-6	2-7	2-7	2-7	2-8
150.00	3-3	3-4	3-5	3-6	3-6	3-7	3-8	3-9	3-9	3-10
175.00	4-5	4-6	4-7	4-9	4-10	4-11	5-0	5-1	5-1	5-2
200.00	5-9	5-11	6-0	6-2	6-3	6-5	6-6	6-7	6-8	6-9
225.00	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-6	8-7
250.00	9-0	9-2	9-5	9-7	9-10	10-0	10-2	10-4	10-6	10-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-6	3-7	3-7
175.00	4-6	4-7	4-7	4-8	4-8	4-9	4-9	4-10	4-10	4-11
200.00	5-11	5-11	6-0	6-1	6-1	6-2	6-3	6-3	6-4	6-5
225.00	7-5	7-6	7-7	7-8	7-9	7-10	7-11	7-11	8-0	8-1
250.00	9-2	9-4	9-5	9-6	9-7	9-8	9-9	9-10	9-11	10-0
275.00	11-2	11-3	11-4	11-6	11-7	11-8	11-9	11-11	12-0	12-1
300.00	13-3	13-5	13-6	13-8	13-9	13-11	14-0	14-2	14-3	14-4
325.00	15-7	15-9	15-11	16-0	16-2	16-4	16-6	16-8	16-9	16-10
350.00	18-1	18-3	18-5	18-7	18-9	18-11	19-2	19-4	19-6	19-7
375.00	20-9	21-0	21-2	21-4	21-7	21-9	22-0	22-2	22-4	22-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-7	3-7	3-7
175.00	4-6	4-7	4-7	4-8	4-8	4-9	4-9	4-10	4-10	4-11
200.00	5-11	6-0	6-0	6-1	6-2	6-2	6-3	6-4	6-4	6-5
225.00	7-6	7-7	7-8	7-8	7-9	7-10	7-11	8-0	8-0	8-1
250.00	9-3	9-4	9-5	9-6	9-7	9-8	9-9	9-10	9-11	10-0
275.00	11-2	11-3	11-5	11-6	11-7	11-9	11-10	11-11	12-0	12-1
300.00	13-4	13-5	13-7	13-8	13-10	14-0	14-1	14-2	14-3	14-4
325.00	15-7	15-9	15-11	16-1	16-3	16-5	16-7	16-8	16-9	16-10
350.00	18-2	18-4	18-6	18-8	18-10	19-0	19-2	19-4	19-6	19-7
375.00	20-10	21-0	21-3	21-5	21-8	21-10	22-1	22-3	22-4	22-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.245

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-0	6-0	6-0	6-1	6-1	6-2	6-2	6-2	6-3	6-3
225.00	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-11	7-11
250.00	9-4	9-5	9-5	9-6	9-6	9-7	9-8	9-8	9-9	9-9
275.00	11-4	11-4	11-5	11-6	11-6	11-7	11-8	11-9	11-9	11-10
300.00	13-5	13-6	13-7	13-8	13-9	13-10	13-11	13-11	14-0	14-1
325.00	15-9	15-11	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-6
350.00	18-4	18-5	18-6	18-7	18-9	18-10	18-11	19-0	19-1	19-2
375.00	21-1	21-2	21-3	21-5	21-6	21-7	21-9	21-10	21-11	22-0
400.00	23-11	24-1	24-3	24-4	24-6	24-7	24-9	24-10	25-0	25-1
425.00	27-1	27-3	27-4	27-6	27-8	27-10	27-11	28-1	28-3	28-4
450.00	30-4	30-6	30-8	30-10	31-0	31-2	31-4	31-6	31-8	31-9
475.00	33-10	34-0	34-3	34-5	34-7	34-9	34-11	35-2	35-4	35-5
500.00	37-6	37-9	37-11	38-2	38-4	38-7	38-9	38-11	39-2	39-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-0	6-0	6-1	6-1	6-1	6-2	6-2	6-2	6-3	6-3
225.00	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-11	7-11
250.00	9-4	9-5	9-5	9-6	9-7	9-7	9-8	9-8	9-9	9-9
275.00	11-4	11-5	11-5	11-6	11-7	11-8	11-8	11-9	11-9	11-10
300.00	13-6	13-7	13-7	13-8	13-9	13-10	13-11	14-0	14-0	14-1
325.00	15-10	15-11	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-6
350.00	18-4	18-5	18-7	18-8	18-9	18-10	19-0	19-0	19-1	19-2
375.00	21-1	21-2	21-4	21-5	21-7	21-8	21-9	21-10	21-11	22-0
400.00	24-0	24-2	24-3	24-5	24-6	24-8	24-10	24-11	25-0	25-1
425.00	27-1	27-3	27-5	27-7	27-9	27-10	28-0	28-2	28-3	28-4
450.00	30-5	30-7	30-9	30-11	31-1	31-3	31-5	31-7	31-8	31-9
475.00	33-11	34-1	34-3	34-6	34-8	34-10	35-0	35-2	35-4	35-5
500.00	37-7	37-10	38-0	38-3	38-5	38-8	38-10	39-0	39-2	39-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.246

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-5	9-5	9-6	9-6	9-7	9-7	9-7	9-8	9-8	9-8
275.00	11-5	11-5	11-6	11-6	11-7	11-7	11-8	11-8	11-9	11-9
300.00	13-7	13-8	13-8	13-9	13-9	13-10	13-10	13-11	13-11	14-0
325.00	15-11	16-0	16-1	16-1	16-2	16-3	16-3	16-4	16-5	16-5
350.00	18-6	18-7	18-8	18-8	18-9	18-10	18-11	18-11	19-0	19-1
375.00	21-3	21-4	21-5	21-6	21-7	21-7	21-8	21-9	21-10	21-11
400.00	24-2	24-3	24-4	24-5	24-6	24-7	24-8	24-9	24-10	24-11
425.00	27-4	27-5	27-6	27-7	27-8	27-10	27-11	28-0	28-1	28-2
450.00	30-8	30-9	30-10	31-0	31-1	31-2	31-4	31-5	31-6	31-7
475.00	34-2	34-4	34-5	34-7	34-8	34-9	34-11	35-0	35-1	35-2
500.00	37-11	38-0	38-2	38-4	38-5	38-7	38-8	38-10	38-11	39-0
525.00	41-10	42-0	42-1	42-3	42-5	42-7	42-8	42-10	43-0	43-1
550.00	45-11	46-1	46-3	46-5	46-7	46-9	46-11	47-1	47-2	47-4
575.00	50-3	50-5	50-7	50-9	50-11	51-2	51-4	51-6	51-8	51-9
600.00	54-9	55-0	55-2	55-4	55-6	55-9	55-11	56-1	56-3	56-5
625.00	59-6	59-8	59-11	60-1	60-4	60-6	60-9	60-11	61-2	61-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-5	9-6	9-6	9-6	9-7	9-7	9-8	9-8	9-8	9-8
275.00	11-5	11-6	11-6	11-6	11-7	11-7	11-8	11-8	11-9	11-9
300.00	13-7	13-8	13-8	13-9	13-9	13-10	13-11	13-11	13-11	14-0
325.00	16-0	16-0	16-1	16-2	16-2	16-3	16-4	16-4	16-5	16-5
350.00	18-6	18-7	18-8	18-9	18-9	18-10	18-11	19-0	19-0	19-1
375.00	21-3	21-4	21-5	21-6	21-7	21-8	21-9	21-9	21-10	21-11
400.00	24-3	24-4	24-5	24-6	24-7	24-8	24-9	24-10	24-10	24-11
425.00	27-4	27-5	27-7	27-8	27-9	27-10	27-11	28-0	28-1	28-2
450.00	30-8	30-10	30-11	31-0	31-2	31-3	31-4	31-5	31-6	31-7
475.00	34-3	34-4	34-6	34-7	34-8	34-10	34-11	35-1	35-1	35-2
500.00	37-11	38-1	38-3	38-4	38-6	38-7	38-9	38-10	38-11	39-0
525.00	41-10	42-0	42-2	42-4	42-6	42-7	42-9	42-11	43-0	43-1
550.00	46-0	46-2	46-4	46-6	46-8	46-10	47-0	47-1	47-2	47-4
575.00	50-4	50-6	50-8	50-10	51-0	51-2	51-5	51-6	51-8	51-9
600.00	54-10	55-0	55-3	55-5	55-7	55-10	56-0	56-2	56-3	56-5
625.00	59-7	59-9	60-0	60-2	60-5	60-7	60-10	61-0	61-2	61-3

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SHEET 247 OF 359

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.247

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	1	1500	1	1500*
0	0	0	0	0.44	0.38	1446	0.38	1446
30	0	0	0	0.44	0.74	747	0.68	810
40	0	0	0	0.44	0.89	616	0.82	672
50	0	0	0	0.44	1.05	525	0.96	571
60	0	0	0	0.44	1.2	460	1.11	497
70	0	0	0	0.44	1.33	413	1.24	442
80	0	0	0	0.44	1.46	377	1.37	401
90	0	0	0	0.44	1.53	359	1.5	368
100	0	0	0	0.44	1.61	343	1.61	343
110	0	0	0	0.44	1.68	329	1.68	329
120	0	0	0	0.44	1.74	316	1.74	316
130	0	0	0	0.44	1.81	304	1.81	304
167	0	0	0	0.44	2.04	270	2.04	270
212	0	0	0	0.44	2.3	240	2.3	240

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	4	1497	3.99	1500*
0	0	0	0	0.44	3.04	724	2.96	744
30	0	0	0	0.44	3.68	599	3.57	617
40	0	0	0	0.44	3.87	569	3.76	585
50	0	0	0	0.44	4.06	543	3.95	558
60	0	0	0	0.44	4.24	519	4.13	534
70	0	0	0	0.44	4.42	499	4.3	513
80	0	0	0	0.44	4.59	480	4.47	493
90	0	0	0	0.44	4.75	464	4.63	476
100	0	0	0	0.44	4.85	454	4.79	460
110	0	0	0	0.44	4.95	445	4.94	446
120	0	0	0	0.44	5.05	436	5.05	436
130	0	0	0	0.44	5.15	428	5.15	428
167	0	0	0	0.44	5.5	401	5.5	401
212	0	0	0	0.44	5.9	374	5.9	374

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.248

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	9	1497	8.99	1500*
0	0	0	0	0.44	8.05	617	7.95	624
30	0	0	0	0.44	8.68	572	8.56	580
40	0	0	0	0.44	8.88	560	8.76	567
50	0	0	0	0.44	9.07	548	8.95	555
60	0	0	0	0.44	9.26	536	9.13	544
70	0	0	0	0.44	9.45	526	9.32	533
80	0	0	0	0.44	9.64	516	9.5	523
90	0	0	0	0.44	9.82	506	9.68	513
100	0	0	0	0.44	9.96	499	9.86	504
110	0	0	0	0.44	10.08	493	10.03	496
120	0	0	0	0.44	10.2	488	10.2	488
130	0	0	0	0.44	10.31	482	10.31	482
167	0	0	0	0.44	10.71	464	10.71	464
212	0	0	0	0.44	11.19	445	11.19	445

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	16.04	1498	16.02	1500*
0	0	0	0	0.44	15.09	586	14.99	590
30	0	0	0	0.44	15.71	564	15.59	568
40	0	0	0	0.44	15.91	557	15.79	561
50	0	0	0	0.44	16.11	550	15.98	554
60	0	0	0	0.44	16.31	543	16.17	548
70	0	0	0	0.44	16.5	537	16.36	541
80	0	0	0	0.44	16.69	531	16.55	535
90	0	0	0	0.44	16.88	525	16.74	529
100	0	0	0	0.44	17.05	520	16.92	524
110	0	0	0	0.44	17.17	516	17.1	518
120	0	0	0	0.44	17.3	513	17.28	513
130	0	0	0	0.44	17.42	509	17.42	509
167	0	0	0	0.44	17.86	497	17.86	497
212	0	0	0	0.44	18.38	483	18.38	483

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	25.15	1499	25.13	1500*
0	0	0	0	0.44	24.2	573	24.1	576
30	0	0	0	0.44	24.82	560	24.7	562
40	0	0	0	0.44	25.02	555	24.89	558
50	0	0	0	0.44	25.22	551	25.09	554
60	0	0	0	0.44	25.42	547	25.28	549
70	0	0	0	0.44	25.61	542	25.47	545
80	0	0	0	0.44	25.81	538	25.66	541
90	0	0	0	0.44	26	535	25.85	538
100	0	0	0	0.44	26.18	531	26.04	534
110	0	0	0	0.44	26.31	528	26.23	530
120	0	0	0	0.44	26.44	526	26.41	526
130	0	0	0	0.44	26.57	523	26.57	523
167	0	0	0	0.44	27.02	515	27.02	515
212	0	0	0	0.44	27.57	505	27.57	505

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.250

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11	0-11
100.00	0-7	0-8	0-10	1-0	1-1	1-3	1-4	1-6	1-7	1-8
125.00	0-10	1-1	1-3	1-6	1-9	1-11	2-2	2-4	2-6	2-7
150.00	1-3	1-6	1-10	2-2	2-6	2-10	3-1	3-4	3-7	3-9
175.00	1-8	2-1	2-6	2-11	3-5	3-10	4-3	4-7	4-11	5-2
200.00	2-3	2-9	3-3	3-10	4-5	5-0	5-6	6-0	6-5	6-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	0-11
100.00	0-7	0-9	0-11	1-1	1-2	1-4	1-6	1-6	1-7	1-8
125.00	0-11	1-2	1-5	1-8	1-10	2-1	2-3	2-5	2-6	2-7
150.00	1-4	1-8	2-0	2-4	2-8	3-0	3-3	3-5	3-7	3-9
175.00	1-10	2-3	2-9	3-3	3-8	4-1	4-6	4-8	4-11	5-2
200.00	2-4	2-11	3-7	4-2	4-9	5-4	5-10	6-2	6-5	6-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.251

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-10	1-11
150.00	1-11	2-0	2-1	2-3	2-4	2-5	2-6	2-7	2-8	2-9
175.00	2-7	2-9	2-11	3-0	3-2	3-3	3-5	3-7	3-8	3-9
200.00	3-4	3-7	3-9	3-11	4-2	4-4	4-6	4-8	4-9	4-11
225.00	4-3	4-6	4-9	5-0	5-3	5-5	5-8	5-10	6-1	6-3
250.00	5-3	5-7	5-11	6-2	6-5	6-9	7-0	7-3	7-6	7-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11
150.00	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-8	2-9	2-9
175.00	2-8	2-10	3-0	3-1	3-3	3-5	3-6	3-8	3-9	3-9
200.00	3-6	3-8	3-10	4-1	4-3	4-5	4-7	4-9	4-10	4-11
225.00	4-5	4-8	4-11	5-2	5-4	5-7	5-10	6-0	6-2	6-3
250.00	5-5	5-9	6-1	6-4	6-8	6-11	7-2	7-5	7-7	7-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.252

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-1	2-2	2-2	2-3	2-3	2-4	2-4	2-5	2-6	2-6
175.00	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-3	3-4	3-5
200.00	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-5
225.00	4-8	4-10	4-11	5-0	5-2	5-3	5-4	5-5	5-6	5-8
250.00	5-10	5-11	6-1	6-3	6-4	6-6	6-7	6-9	6-10	7-0
275.00	7-0	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-3	8-5
300.00	8-4	8-7	8-9	8-11	9-2	9-4	9-6	9-8	9-10	10-0
325.00	9-10	10-1	10-3	10-6	10-9	10-11	11-2	11-4	11-7	11-9
350.00	11-5	11-8	11-11	12-2	12-5	12-8	12-11	13-2	13-5	13-8
375.00	13-1	13-5	13-8	14-0	14-3	14-7	14-10	15-2	15-5	15-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-1	2-2	2-3	2-3	2-4	2-4	2-5	2-5	2-6	2-6
175.00	2-11	2-11	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-5
200.00	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6
225.00	4-9	4-11	5-0	5-1	5-2	5-4	5-5	5-6	5-7	5-8
250.00	5-11	6-0	6-2	6-4	6-5	6-7	6-8	6-10	6-11	7-0
275.00	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-4	8-6
300.00	8-6	8-8	8-11	9-1	9-3	9-5	9-8	9-10	10-0	10-1
325.00	9-11	10-2	10-5	10-8	10-10	11-1	11-4	11-6	11-8	11-10
350.00	11-6	11-10	12-1	12-4	12-7	12-10	13-2	13-4	13-7	13-9
375.00	13-3	13-7	13-11	14-2	14-6	14-9	15-1	15-4	15-7	15-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.253

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-10	3-11	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-3
225.00	4-10	4-11	5-0	5-1	5-1	5-2	5-3	5-3	5-4	5-5
250.00	6-0	6-1	6-2	6-3	6-4	6-5	6-5	6-6	6-7	6-8
275.00	7-3	7-4	7-5	7-7	7-8	7-9	7-10	7-11	8-0	8-1
300.00	8-8	8-9	8-10	9-0	9-1	9-2	9-4	9-5	9-6	9-7
325.00	10-2	10-3	10-5	10-7	10-8	10-10	10-11	11-0	11-2	11-3
350.00	11-9	11-11	12-1	12-3	12-5	12-6	12-8	12-10	12-11	13-1
375.00	13-6	13-8	13-10	14-1	14-3	14-5	14-7	14-8	14-10	15-0
400.00	15-5	15-7	15-9	16-0	16-2	16-4	16-7	16-9	16-11	17-1
425.00	17-5	17-7	17-10	18-1	18-3	18-6	18-8	18-11	19-1	19-4
450.00	19-6	19-9	20-0	20-3	20-6	20-9	21-0	21-2	21-5	21-8
475.00	21-9	22-0	22-3	22-7	22-10	23-1	23-4	23-7	23-11	24-2
500.00	24-1	24-5	24-8	25-0	25-4	25-7	25-11	26-2	26-6	26-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-10	3-11	4-0	4-0	4-1	4-1	4-2	4-3	4-3	4-3
225.00	4-11	5-0	5-0	5-1	5-2	5-3	5-3	5-4	5-5	5-5
250.00	6-1	6-2	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-8
275.00	7-4	7-5	7-6	7-7	7-8	7-9	7-11	8-0	8-1	8-1
300.00	8-9	8-10	8-11	9-1	9-2	9-3	9-5	9-6	9-7	9-8
325.00	10-3	10-4	10-6	10-8	10-9	10-11	11-0	11-2	11-3	11-4
350.00	11-10	12-0	12-2	12-4	12-6	12-8	12-9	12-11	13-1	13-2
375.00	13-8	13-10	14-0	14-2	14-4	14-6	14-8	14-10	15-0	15-1
400.00	15-6	15-9	15-11	16-1	16-4	16-6	16-8	16-11	17-1	17-2
425.00	17-6	17-9	18-0	18-2	18-5	18-8	18-10	19-1	19-3	19-5
450.00	19-8	19-11	20-2	20-5	20-8	20-11	21-2	21-5	21-7	21-9
475.00	21-11	22-2	22-6	22-9	23-0	23-4	23-7	23-10	24-1	24-3
500.00	24-3	24-7	24-11	25-2	25-6	25-10	26-1	26-5	26-8	26-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.254

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-1	6-2	6-2	6-3	6-4	6-4	6-5	6-5	6-6	6-6
275.00	7-5	7-5	7-6	7-7	7-8	7-8	7-9	7-10	7-10	7-11
300.00	8-10	8-10	8-11	9-0	9-1	9-2	9-3	9-3	9-4	9-5
325.00	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1
350.00	12-0	12-1	12-2	12-3	12-4	12-6	12-7	12-8	12-9	12-10
375.00	13-9	13-10	14-0	14-1	14-2	14-4	14-5	14-6	14-7	14-9
400.00	15-8	15-9	15-11	16-0	16-2	16-3	16-5	16-6	16-8	16-9
425.00	17-8	17-10	18-0	18-1	18-3	18-5	18-6	18-8	18-10	18-11
450.00	19-10	20-0	20-2	20-4	20-6	20-7	20-9	20-11	21-1	21-3
475.00	22-1	22-3	22-5	22-8	22-10	23-0	23-2	23-4	23-6	23-8
500.00	24-6	24-8	24-11	25-1	25-3	25-6	25-8	25-10	26-0	26-3
525.00	27-0	27-3	27-5	27-8	27-11	28-1	28-4	28-6	28-9	28-11
550.00	29-8	29-11	30-2	30-4	30-7	30-10	31-1	31-4	31-6	31-9
575.00	32-5	32-8	32-11	33-3	33-6	33-9	34-0	34-3	34-6	34-9
600.00	35-4	35-7	35-11	36-2	36-5	36-9	37-0	37-3	37-7	37-10
625.00	38-4	38-8	39-0	39-3	39-7	39-11	40-2	40-6	40-9	41-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-2	6-2	6-3	6-3	6-4	6-5	6-5	6-6	6-6	6-7
275.00	7-5	7-6	7-7	7-7	7-8	7-9	7-9	7-10	7-11	7-11
300.00	8-10	8-11	9-0	9-1	9-2	9-2	9-3	9-4	9-5	9-5
325.00	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-0	11-1
350.00	12-0	12-2	12-3	12-4	12-5	12-6	12-7	12-9	12-10	12-10
375.00	13-10	13-11	14-1	14-2	14-3	14-5	14-6	14-7	14-8	14-9
400.00	15-9	15-10	16-0	16-1	16-3	16-4	16-6	16-7	16-9	16-10
425.00	17-9	17-11	18-1	18-2	18-4	18-6	18-8	18-9	18-11	19-0
450.00	19-11	20-1	20-3	20-5	20-7	20-9	20-11	21-1	21-2	21-4
475.00	22-2	22-5	22-7	22-9	22-11	23-1	23-3	23-6	23-7	23-9
500.00	24-7	24-10	25-0	25-3	25-5	25-7	25-10	26-0	26-2	26-4
525.00	27-2	27-4	27-7	27-10	28-0	28-3	28-6	28-8	28-11	29-0
550.00	29-10	30-1	30-4	30-6	30-9	31-0	31-3	31-6	31-8	31-10
575.00	32-7	32-10	33-1	33-5	33-8	33-11	34-2	34-5	34-8	34-10
600.00	35-6	35-9	36-1	36-4	36-8	36-11	37-3	37-6	37-9	37-11
625.00	38-6	38-10	39-2	39-6	39-9	40-1	40-5	40-9	41-0	41-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.255

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	0.75	1988	0.75	2000*
0	0	0	0	0.44	0.25	2195	0.25	2195
30	0	0	0	0.44	0.43	1292	0.39	1421
40	0	0	0	0.44	0.53	1028	0.47	1181
50	0	0	0	0.44	0.67	818	0.57	967
60	0	0	0	0.44	0.83	666	0.7	791
70	0	0	0	0.44	0.98	560	0.84	657
80	0	0	0	0.44	1.13	485	0.98	559
90	0	0	0	0.44	1.22	450	1.13	488
100	0	0	0	0.44	1.3	424	1.26	436
110	0	0	0	0.44	1.38	399	1.38	399
120	0	0	0	0.44	1.45	379	1.45	379
130	0	0	0	0.44	1.52	361	1.52	361
167	0	0	0	0.44	1.78	309	1.78	309
212	0	0	0	0.44	2.06	267	2.06	267

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	3.01	1984	2.99	2000*
0	0	0	0	0.44	1.68	1313	1.58	1392
30	0	0	0	0.44	2.42	911	2.23	986
40	0	0	0	0.44	2.66	828	2.46	895
50	0	0	0	0.44	2.89	761	2.69	819
60	0	0	0	0.44	3.12	706	2.91	757
70	0	0	0	0.44	3.34	660	3.12	705
80	0	0	0	0.44	3.55	621	3.33	661
90	0	0	0	0.44	3.75	588	3.53	624
100	0	0	0	0.44	3.9	565	3.73	591
110	0	0	0	0.44	4.01	549	3.91	563
120	0	0	0	0.44	4.12	535	4.09	538
130	0	0	0	0.44	4.23	520	4.23	520
167	0	0	0	0.44	4.63	477	4.63	477
212	0	0	0	0.44	5.08	435	5.08	435

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	6.77	1989	6.73	2000*
0	0	0	0	0.44	5.27	940	5.08	976
30	0	0	0	0.44	6.12	811	5.89	842
40	0	0	0	0.44	6.38	777	6.15	807
50	0	0	0	0.44	6.64	747	6.4	775
60	0	0	0	0.44	6.88	721	6.64	747
70	0	0	0	0.44	7.13	696	6.88	721
80	0	0	0	0.44	7.36	674	7.11	697
90	0	0	0	0.44	7.59	654	7.34	676
100	0	0	0	0.44	7.81	635	7.56	656
110	0	0	0	0.44	7.97	623	7.78	638
120	0	0	0	0.44	8.1	613	7.99	621
130	0	0	0	0.44	8.23	603	8.2	605
167	0	0	0	0.44	8.72	570	8.72	570
212	0	0	0	0.44	9.27	536	9.27	536

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	12.03	1993	11.98	2000*
0	0	0	0	0.44	10.52	838	10.31	856
30	0	0	0	0.44	11.36	777	11.12	794
40	0	0	0	0.44	11.63	759	11.38	776
50	0	0	0	0.44	11.89	743	11.64	759
60	0	0	0	0.44	12.15	727	11.89	743
70	0	0	0	0.44	12.4	712	12.14	728
80	0	0	0	0.44	12.65	699	12.38	713
90	0	0	0	0.44	12.89	685	12.62	700
100	0	0	0	0.44	13.13	673	12.86	687
110	0	0	0	0.44	13.34	663	13.09	675
120	0	0	0	0.44	13.49	655	13.32	663
130	0	0	0	0.44	13.64	648	13.55	652
167	0	0	0	0.44	14.17	624	14.17	624
212	0	0	0	0.44	14.8	598	14.8	598

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.257

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	18.81	1995	18.76	2000*
0	0	0	0	0.44	17.31	798	17.09	808
30	0	0	0	0.44	18.13	762	17.89	772
40	0	0	0	0.44	18.4	751	18.15	761
50	0	0	0	0.44	18.67	741	18.41	751
60	0	0	0	0.44	18.93	731	18.67	741
70	0	0	0	0.44	19.19	721	18.92	731
80	0	0	0	0.44	19.44	711	19.17	721
90	0	0	0	0.44	19.7	702	19.42	712
100	0	0	0	0.44	19.95	694	19.66	704
110	0	0	0	0.44	20.19	686	19.91	695
120	0	0	0	0.44	20.35	680	20.15	687
130	0	0	0	0.44	20.5	675	20.38	679
167	0	0	0	0.44	21.08	657	21.08	657
212	0	0	0	0.44	21.75	637	21.75	637

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9
100.00	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-2	1-3	1-5
125.00	0-6	0-7	0-9	0-11	1-1	1-4	1-6	1-9	2-0	2-2
150.00	0-9	0-10	1-1	1-3	1-7	1-11	2-3	2-6	2-10	3-1
175.00	1-0	1-2	1-5	1-9	2-2	2-7	3-0	3-5	3-10	4-3
200.00	1-4	1-7	1-10	2-3	2-9	3-4	3-11	4-6	5-1	5-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9	0-9
100.00	0-4	0-5	0-6	0-8	0-10	1-0	1-2	1-3	1-4	1-5
125.00	0-6	0-8	0-10	1-1	1-3	1-6	1-9	1-11	2-0	2-2
150.00	0-9	0-11	1-2	1-6	1-10	2-3	2-7	2-9	2-11	3-1
175.00	1-1	1-4	1-8	2-1	2-6	3-0	3-6	3-9	4-0	4-3
200.00	1-5	1-8	2-2	2-8	3-4	3-11	4-6	4-11	5-2	5-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.259

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0
125.00	0-9	0-10	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6
150.00	1-2	1-3	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-2
175.00	1-6	1-8	1-11	2-1	2-3	2-5	2-7	2-8	2-10	3-0
200.00	2-0	2-3	2-6	2-8	2-11	3-1	3-4	3-6	3-9	3-11
225.00	2-6	2-10	3-1	3-5	3-8	3-11	4-3	4-6	4-9	4-11
250.00	3-2	3-6	3-10	4-2	4-7	4-11	5-2	5-6	5-10	6-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0
125.00	0-10	0-11	1-0	1-2	1-3	1-4	1-5	1-6	1-6	1-7
150.00	1-3	1-4	1-6	1-8	1-9	1-11	2-0	2-1	2-2	2-3
175.00	1-8	1-10	2-0	2-3	2-5	2-7	2-9	2-10	3-0	3-1
200.00	2-2	2-5	2-8	2-11	3-1	3-4	3-7	3-9	3-11	4-0
225.00	2-9	3-1	3-4	3-8	3-11	4-3	4-6	4-9	4-11	5-1
250.00	3-5	3-9	4-2	4-6	4-11	5-3	5-7	5-10	6-1	6-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.260

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-6	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11
175.00	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
200.00	2-6	2-7	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-5
225.00	3-2	3-4	3-5	3-7	3-9	3-10	4-0	4-2	4-3	4-4
250.00	3-11	4-1	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-5
275.00	4-9	4-11	5-2	5-5	5-7	5-9	6-0	6-2	6-4	6-6
300.00	5-8	5-11	6-2	6-5	6-8	6-11	7-1	7-4	7-7	7-9
325.00	6-7	6-11	7-3	7-6	7-10	8-1	8-4	8-7	8-11	9-2
350.00	7-8	8-0	8-4	8-9	9-1	9-4	9-8	10-0	10-4	10-7
375.00	8-10	9-2	9-7	10-0	10-5	10-9	11-1	11-6	11-10	12-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11	2-0
175.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
200.00	2-7	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-6	3-6
225.00	3-3	3-5	3-7	3-9	3-10	4-0	4-2	4-3	4-5	4-6
250.00	4-1	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-6
275.00	4-11	5-2	5-4	5-7	5-9	6-0	6-2	6-5	6-7	6-8
300.00	5-10	6-1	6-5	6-8	6-11	7-2	7-4	7-7	7-10	8-0
325.00	6-10	7-2	7-6	7-9	8-1	8-4	8-8	8-11	9-2	9-4
350.00	7-11	8-4	8-8	9-0	9-4	9-8	10-0	10-4	10-8	10-10
375.00	9-2	9-7	10-0	10-4	10-9	11-2	11-6	11-10	12-3	12-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.261

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-9	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3
225.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
250.00	4-3	4-4	4-5	4-7	4-8	4-9	4-10	4-11	5-0	5-1
275.00	5-2	5-3	5-5	5-6	5-7	5-9	5-10	6-0	6-1	6-2
300.00	6-1	6-3	6-5	6-7	6-8	6-10	7-0	7-1	7-3	7-4
325.00	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-6	8-8
350.00	8-4	8-6	8-9	8-11	9-1	9-4	9-6	9-8	9-10	10-0
375.00	9-6	9-9	10-0	10-3	10-5	10-8	10-11	11-1	11-4	11-6
400.00	10-10	11-1	11-5	11-8	11-11	12-2	12-5	12-7	12-10	13-1
425.00	12-3	12-7	12-10	13-2	13-5	13-8	14-0	14-3	14-6	14-9
450.00	13-9	14-1	14-5	14-9	15-1	15-4	15-8	16-0	16-3	16-7
475.00	15-4	15-8	16-1	16-5	16-9	17-2	17-6	17-10	18-2	18-6
500.00	17-0	17-5	17-10	18-2	18-7	19-0	19-4	19-9	20-1	20-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3	3-4
225.00	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3
250.00	4-4	4-5	4-6	4-8	4-9	4-10	4-11	5-0	5-2	5-2
275.00	5-3	5-4	5-6	5-7	5-9	5-10	6-0	6-1	6-2	6-4
300.00	6-3	6-5	6-6	6-8	6-10	7-0	7-1	7-3	7-5	7-6
325.00	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-10
350.00	8-6	8-8	8-11	9-1	9-4	9-6	9-8	9-10	10-1	10-3
375.00	9-9	10-0	10-3	10-5	10-8	10-11	11-1	11-4	11-6	11-9
400.00	11-1	11-4	11-8	11-11	12-2	12-5	12-8	12-11	13-2	13-4
425.00	12-6	12-10	13-2	13-5	13-9	14-0	14-3	14-7	14-10	15-1
450.00	14-0	14-5	14-9	15-1	15-5	15-8	16-0	16-4	16-8	16-11
475.00	15-8	16-0	16-5	16-9	17-2	17-6	17-10	18-2	18-6	18-10
500.00	17-4	17-9	18-2	18-7	19-0	19-5	19-9	20-2	20-6	20-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.262

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-5	4-6	4-6	4-7	4-8	4-9	4-9	4-10	4-11	5-0
275.00	5-4	5-5	5-6	5-7	5-8	5-9	5-9	5-10	5-11	6-0
300.00	6-4	6-5	6-6	6-7	6-9	6-10	6-11	7-0	7-1	7-2
325.00	7-5	7-7	7-8	7-9	7-11	8-0	8-1	8-2	8-4	8-5
350.00	8-8	8-9	8-11	9-0	9-2	9-3	9-5	9-6	9-8	9-9
375.00	9-11	10-1	10-2	10-4	10-6	10-8	10-9	10-11	11-1	11-2
400.00	11-3	11-5	11-7	11-9	11-11	12-1	12-3	12-5	12-7	12-9
425.00	12-9	12-11	13-1	13-4	13-6	13-8	13-10	14-0	14-2	14-4
450.00	14-3	14-6	14-8	14-11	15-1	15-4	15-6	15-9	15-11	16-1
475.00	15-11	16-2	16-5	16-7	16-10	17-1	17-4	17-6	17-9	18-0
500.00	17-8	17-11	18-2	18-5	18-8	18-11	19-2	19-5	19-8	19-11
525.00	19-5	19-9	20-0	20-4	20-7	20-10	21-2	21-5	21-8	21-11
550.00	21-4	21-8	22-0	22-3	22-7	22-11	23-2	23-6	23-10	24-1
575.00	23-4	23-8	24-0	24-4	24-8	25-0	25-4	25-8	26-0	26-4
600.00	25-5	25-9	26-2	26-6	26-11	27-3	27-8	28-0	28-4	28-8
625.00	27-7	28-0	28-5	28-10	29-2	29-7	30-0	30-5	30-9	31-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-6	4-6	4-7	4-8	4-9	4-9	4-10	4-11	5-0	5-0
275.00	5-5	5-6	5-7	5-8	5-9	5-10	5-10	5-11	6-0	6-1
300.00	6-5	6-6	6-7	6-9	6-10	6-11	7-0	7-1	7-2	7-3
325.00	7-6	7-8	7-9	7-11	8-0	8-1	8-2	8-4	8-5	8-6
350.00	8-9	8-11	9-0	9-2	9-3	9-5	9-6	9-8	9-9	9-11
375.00	10-0	10-2	10-4	10-6	10-8	10-9	10-11	11-1	11-3	11-4
400.00	11-5	11-7	11-9	11-11	12-1	12-3	12-5	12-7	12-9	12-11
425.00	12-11	13-1	13-3	13-6	13-8	13-10	14-0	14-3	14-5	14-7
450.00	14-6	14-8	14-11	15-1	15-4	15-6	15-9	15-11	16-2	16-4
475.00	16-1	16-4	16-7	16-10	17-1	17-4	17-7	17-9	18-0	18-3
500.00	17-10	18-2	18-5	18-8	18-11	19-2	19-5	19-8	19-11	20-2
525.00	19-8	20-0	20-4	20-7	20-10	21-2	21-5	21-9	22-0	22-3
550.00	21-7	21-11	22-3	22-7	22-11	23-3	23-6	23-10	24-2	24-5
575.00	23-8	24-0	24-4	24-8	25-1	25-5	25-9	26-1	26-5	26-9
600.00	25-9	26-2	26-6	26-11	27-3	27-8	28-0	28-5	28-9	29-1
625.00	27-11	28-4	28-9	29-2	29-7	30-0	30-5	30-10	31-2	31-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.263

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	0.62	2411	0.6	2500*
0	0	0	0	0.44	0.2	2807	0.2	2807
30	0	0	0	0.44	0.31	1798	0.27	2028
40	0	0	0	0.44	0.37	1480	0.31	1765
50	0	0	0	0.44	0.46	1191	0.36	1507
60	0	0	0	0.44	0.58	945	0.44	1259
70	0	0	0	0.44	0.73	756	0.53	1034
80	0	0	0	0.44	0.88	623	0.65	843
90	0	0	0	0.44	0.98	563	0.79	695
100	0	0	0	0.44	1.05	524	0.94	586
110	0	0	0	0.44	1.12	489	1.08	508
120	0	0	0	0.44	1.2	458	1.2	458
130	0	0	0	0.44	1.28	431	1.28	431
167	0	0	0	0.44	1.55	356	1.55	356
212	0	0	0	0.44	1.85	297	1.85	297

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	2.44	2449	2.39	2500*
0	0	0	0	0.44	1.05	2092	1	2210
30	0	0	0	0.44	1.62	1358	1.41	1558
40	0	0	0	0.44	1.86	1184	1.6	1376
50	0	0	0	0.44	2.11	1045	1.81	1217
60	0	0	0	0.44	2.36	934	2.03	1084
70	0	0	0	0.44	2.6	846	2.26	974
80	0	0	0	0.44	2.84	776	2.49	884
90	0	0	0	0.44	3.07	718	2.72	810
100	0	0	0	0.44	3.25	677	2.94	749
110	0	0	0	0.44	3.37	653	3.15	698
120	0	0	0	0.44	3.49	631	3.36	655
130	0	0	0	0.44	3.61	611	3.56	619
167	0	0	0	0.44	4.03	547	4.03	547
212	0	0	0	0.44	4.51	489	4.51	489

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.264

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	5.45	2470	5.38	2500*
0	0	0	0	0.44	3.45	1437	3.18	1556
30	0	0	0	0.44	4.42	1121	4.06	1220
40	0	0	0	0.44	4.73	1047	4.36	1137
50	0	0	0	0.44	5.04	983	4.65	1065
60	0	0	0	0.44	5.34	929	4.94	1003
70	0	0	0	0.44	5.62	881	5.22	949
80	0	0	0	0.44	5.9	840	5.5	901
90	0	0	0	0.44	6.17	803	5.77	859
100	0	0	0	0.44	6.43	771	6.03	822
110	0	0	0	0.44	6.65	746	6.29	789
120	0	0	0	0.44	6.8	729	6.54	759
130	0	0	0	0.44	6.95	714	6.78	732
167	0	0	0	0.44	7.47	664	7.47	664
212	0	0	0	0.44	8.09	614	8.09	614

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	9.65	2481	9.57	2500*
0	0	0	0	0.44	7.51	1173	7.15	1232
30	0	0	0	0.44	8.56	1030	8.16	1081
40	0	0	0	0.44	8.89	992	8.48	1040
50	0	0	0	0.44	9.21	957	8.79	1003
60	0	0	0	0.44	9.53	926	9.1	969
70	0	0	0	0.44	9.83	897	9.41	938
80	0	0	0	0.44	10.13	871	9.7	909
90	0	0	0	0.44	10.43	846	9.99	883
100	0	0	0	0.44	10.71	824	10.28	858
110	0	0	0	0.44	10.99	803	10.56	836
120	0	0	0	0.44	11.2	788	10.83	815
130	0	0	0	0.44	11.36	777	11.1	795
167	0	0	0	0.44	11.97	738	11.96	738
212	0	0	0	0.44	12.68	697	12.67	697

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.265

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	15.06	2487	14.98	2500*
0	0	0	0	0.44	12.9	1069	12.51	1102
30	0	0	0	0.44	13.94	989	13.53	1019
40	0	0	0	0.44	14.28	966	13.86	995
50	0	0	0	0.44	14.61	945	14.18	973
60	0	0	0	0.44	14.93	924	14.49	952
70	0	0	0	0.44	15.25	905	14.81	932
80	0	0	0	0.44	15.56	887	15.11	913
90	0	0	0	0.44	15.86	870	15.41	895
100	0	0	0	0.44	16.17	854	15.71	879
110	0	0	0	0.44	16.46	839	16.01	863
120	0	0	0	0.44	16.73	825	16.3	847
130	0	0	0	0.44	16.91	817	16.58	833
167	0	0	0	0.44	17.57	786	17.57	787
212	0	0	0	0.44	18.35	753	18.35	754

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-3	0-4	0-4	0-5	0-6	0-7
100.00	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-9	0-11	1-1
125.00	0-5	0-5	0-6	0-7	0-8	0-10	1-0	1-3	1-6	1-8
150.00	0-6	0-7	0-8	0-10	1-0	1-2	1-6	1-9	2-1	2-5
175.00	0-9	0-10	0-11	1-1	1-4	1-8	2-0	2-5	2-10	3-4
200.00	1-0	1-1	1-3	1-6	1-9	2-2	2-7	3-2	3-9	4-4

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-7	0-8
100.00	0-3	0-4	0-4	0-6	0-7	0-9	0-11	1-0	1-1	1-1
125.00	0-5	0-6	0-7	0-9	0-11	1-2	1-5	1-6	1-8	1-9
150.00	0-7	0-8	0-10	1-0	1-4	1-8	2-0	2-2	2-4	2-6
175.00	0-9	0-11	1-2	1-5	1-9	2-3	2-8	3-0	3-3	3-5
200.00	1-0	1-3	1-6	1-10	2-4	2-11	3-6	3-11	4-2	4-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.267

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-9
125.00	0-6	0-7	0-7	0-8	0-10	0-11	1-0	1-1	1-2	1-3
150.00	0-8	0-10	0-11	1-0	1-2	1-3	1-5	1-6	1-8	1-9
175.00	0-11	1-1	1-3	1-5	1-7	1-9	1-11	2-1	2-3	2-5
200.00	1-3	1-5	1-7	1-10	2-0	2-3	2-6	2-9	2-11	3-2
225.00	1-7	1-9	2-0	2-3	2-7	2-10	3-2	3-5	3-9	4-0
250.00	1-11	2-2	2-6	2-10	3-2	3-6	3-11	4-3	4-7	4-11

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-10
125.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
150.00	0-9	0-11	1-1	1-2	1-4	1-6	1-7	1-9	1-10	1-11
175.00	1-1	1-3	1-5	1-7	1-10	2-0	2-2	2-4	2-6	2-7
200.00	1-5	1-7	1-10	2-1	2-4	2-7	2-10	3-1	3-3	3-4
225.00	1-9	2-1	2-4	2-8	3-0	3-4	3-7	3-11	4-1	4-3
250.00	2-2	2-6	2-11	3-3	3-8	4-1	4-5	4-10	5-1	5-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.268

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	1-0	1-1	1-2	1-3	1-4	1-4	1-5	1-6	1-7
175.00	1-3	1-5	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-2
200.00	1-8	1-10	1-11	2-1	2-2	2-4	2-5	2-7	2-8	2-10
225.00	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-6
250.00	2-7	2-10	3-0	3-3	3-5	3-8	3-10	4-0	4-2	4-4
275.00	3-2	3-5	3-8	3-11	4-2	4-5	4-7	4-10	5-1	5-3
300.00	3-9	4-1	4-4	4-8	4-11	5-3	5-6	5-9	6-0	6-3
325.00	4-5	4-9	5-1	5-6	5-10	6-2	6-5	6-9	7-1	7-5
350.00	5-1	5-6	5-11	6-4	6-9	7-1	7-6	7-10	8-3	8-7
375.00	5-11	6-4	6-10	7-3	7-9	8-2	8-7	9-0	9-5	9-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8
175.00	1-5	1-6	1-7	1-9	1-10	1-11	2-0	2-1	2-2	2-3
200.00	1-10	2-0	2-1	2-3	2-4	2-6	2-7	2-9	2-10	2-11
225.00	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-7	3-9
250.00	2-10	3-1	3-3	3-6	3-8	3-11	4-1	4-3	4-6	4-7
275.00	3-5	3-9	4-0	4-3	4-6	4-9	5-0	5-2	5-5	5-7
300.00	4-1	4-5	4-9	5-0	5-4	5-7	5-11	6-2	6-5	6-8
325.00	4-10	5-2	5-7	5-11	6-3	6-7	6-11	7-3	7-7	7-10
350.00	5-7	6-0	6-5	6-10	7-3	7-8	8-0	8-5	8-9	9-1
375.00	6-5	6-11	7-5	7-11	8-4	8-9	9-3	9-8	10-1	10-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.269

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
225.00	2-6	2-7	2-8	2-9	2-11	3-0	3-1	3-2	3-3	3-4
250.00	3-1	3-2	3-4	3-5	3-7	3-8	3-9	3-11	4-0	4-1
275.00	3-8	3-10	4-0	4-2	4-4	4-5	4-7	4-9	4-10	5-0
300.00	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11
325.00	5-2	5-5	5-7	5-10	6-0	6-2	6-5	6-7	6-9	7-0
350.00	6-0	6-3	6-6	6-9	7-0	7-2	7-5	7-8	7-10	8-1
375.00	6-11	7-2	7-5	7-9	8-0	8-3	8-6	8-9	9-0	9-3
400.00	7-10	8-2	8-6	8-10	9-1	9-5	9-8	10-0	10-3	10-7
425.00	8-10	9-3	9-7	9-11	10-3	10-7	10-11	11-3	11-7	11-11
450.00	9-11	10-4	10-9	11-2	11-6	11-11	12-3	12-8	13-0	13-4
475.00	11-0	11-6	12-0	12-5	12-10	13-3	13-8	14-1	14-6	14-11
500.00	12-3	12-9	13-3	13-9	14-3	14-8	15-2	15-7	16-1	16-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-1	2-2	2-3	2-4	2-5	2-5	2-6	2-7	2-8	2-9
225.00	2-7	2-8	2-10	2-11	3-0	3-1	3-2	3-4	3-5	3-6
250.00	3-3	3-4	3-6	3-7	3-9	3-10	3-11	4-1	4-2	4-3
275.00	3-11	4-1	4-2	4-4	4-6	4-8	4-9	4-11	5-1	5-2
300.00	4-7	4-10	5-0	5-2	5-4	5-6	5-8	5-10	6-0	6-2
325.00	5-5	5-8	5-10	6-1	6-3	6-6	6-8	6-11	7-1	7-3
350.00	6-4	6-7	6-10	7-1	7-4	7-6	7-9	8-0	8-2	8-5
375.00	7-3	7-6	7-10	8-1	8-4	8-8	8-11	9-2	9-5	9-8
400.00	8-3	8-7	8-11	9-3	9-6	9-10	10-2	10-5	10-9	11-0
425.00	9-3	9-8	10-0	10-5	10-9	11-1	11-5	11-9	12-1	12-5
450.00	10-5	10-10	11-3	11-8	12-1	12-5	12-10	13-2	13-7	13-11
475.00	11-7	12-1	12-6	13-0	13-5	13-10	14-4	14-8	15-1	15-6
500.00	12-10	13-5	13-11	14-5	14-11	15-4	15-10	16-4	16-9	17-2

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STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.270

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-4	3-5	3-6	3-6	3-7	3-8	3-9	3-10	3-11	4-0
275.00	4-0	4-1	4-2	4-3	4-5	4-6	4-7	4-8	4-9	4-10
300.00	4-9	4-10	5-0	5-1	5-3	5-4	5-5	5-7	5-8	5-9
325.00	5-7	5-9	5-10	6-0	6-1	6-3	6-5	6-6	6-8	6-9
350.00	6-6	6-8	6-9	6-11	7-1	7-3	7-5	7-7	7-8	7-10
375.00	7-5	7-7	7-9	8-0	8-2	8-4	8-6	8-8	8-10	9-0
400.00	8-5	8-8	8-10	9-1	9-3	9-6	9-8	9-10	10-1	10-3
425.00	9-6	9-9	10-0	10-3	10-6	10-8	10-11	11-2	11-4	11-7
450.00	10-8	10-11	11-3	11-6	11-9	12-0	12-3	12-6	12-9	13-0
475.00	11-11	12-2	12-6	12-10	13-1	13-4	13-8	13-11	14-2	14-5
500.00	13-2	13-6	13-10	14-2	14-6	14-10	15-1	15-5	15-9	16-0
525.00	14-7	14-11	15-3	15-8	16-0	16-4	16-8	17-0	17-4	17-8
550.00	16-0	16-4	16-9	17-2	17-6	17-11	18-3	18-8	19-0	19-4
575.00	17-5	17-11	18-4	18-9	19-2	19-7	20-0	20-5	20-9	21-2
600.00	19-0	19-6	20-0	20-5	20-11	21-4	21-9	22-3	22-8	23-1
625.00	20-8	21-2	21-8	22-2	22-8	23-2	23-8	24-1	24-7	25-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-0	4-1
275.00	4-1	4-3	4-4	4-5	4-6	4-7	4-8	4-10	4-11	5-0
300.00	4-11	5-0	5-2	5-3	5-4	5-6	5-7	5-8	5-10	5-11
325.00	5-9	5-11	6-0	6-2	6-4	6-5	6-7	6-8	6-10	6-11
350.00	6-8	6-10	7-0	7-2	7-4	7-6	7-7	7-9	7-11	8-1
375.00	7-8	7-10	8-0	8-3	8-5	8-7	8-9	8-11	9-1	9-3
400.00	8-8	8-11	9-2	9-4	9-7	9-9	9-11	10-2	10-4	10-6
425.00	9-10	10-1	10-4	10-7	10-9	11-0	11-3	11-5	11-8	11-11
450.00	11-0	11-3	11-7	11-10	12-1	12-4	12-7	12-10	13-1	13-4
475.00	12-3	12-7	12-11	13-2	13-6	13-9	14-0	14-4	14-7	14-10
500.00	13-7	13-11	14-3	14-7	14-11	15-3	15-7	15-10	16-2	16-6
525.00	15-0	15-4	15-9	16-1	16-6	16-10	17-2	17-6	17-10	18-2
550.00	16-6	16-10	17-3	17-8	18-1	18-5	18-10	19-2	19-7	19-11
575.00	18-0	18-5	18-11	19-4	19-9	20-2	20-7	21-0	21-5	21-9
600.00	19-7	20-1	20-7	21-1	21-6	22-0	22-5	22-10	23-4	23-9
625.00	21-3	21-10	22-4	22-10	23-4	23-10	24-4	24-10	25-3	25-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.271

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.194	0.54	2783	0.5	3000*
0	0	0	0	0.44	0.17	3267	0.16	3359
30	0	0	0	0.44	0.25	2226	0.21	2599
40	0	0	0	0.44	0.29	1890	0.24	2337
50	0	0	0	0.44	0.35	1568	0.27	2073
60	0	0	0	0.44	0.43	1268	0.3	1809
70	0	0	0	0.44	0.55	1009	0.36	1547
80	0	0	0	0.44	0.68	803	0.42	1296
90	0	0	0	0.44	0.77	710	0.52	1064
100	0	0	0	0.44	0.84	656	0.63	867
110	0	0	0	0.44	0.91	607	0.77	712
120	0	0	0	0.44	0.98	563	0.92	599
130	0	0	0	0.44	1.05	523	1.04	528
167	0	0	0	0.44	1.33	414	1.32	417
212	0	0	0	0.44	1.65	333	1.65	334

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.194	2.08	2873	1.99	3000*
0	0	0	0	0.44	0.79	2771	0.75	2939
30	0	0	0	0.44	1.18	1868	0.99	2218
40	0	0	0	0.44	1.36	1615	1.11	1986
50	0	0	0	0.44	1.58	1397	1.25	1764
60	0	0	0	0.44	1.81	1216	1.41	1559
70	0	0	0	0.44	2.06	1070	1.6	1375
80	0	0	0	0.44	2.31	954	1.81	1216
90	0	0	0	0.44	2.55	862	2.03	1082
100	0	0	0	0.44	2.75	801	2.26	972
110	0	0	0	0.44	2.87	768	2.5	882
120	0	0	0	0.44	2.99	737	2.72	808
130	0	0	0	0.44	3.11	709	2.95	747
167	0	0	0	0.44	3.55	621	3.53	623
212	0	0	0	0.44	4.06	543	4.05	544

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.272

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Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.194	4.59	2928	4.48	3000*
0	0	0	0	0.44	2.35	2111	2.12	2333
30	0	0	0	0.44	3.24	1530	2.79	1772
40	0	0	0	0.44	3.56	1390	3.06	1617
50	0	0	0	0.44	3.89	1273	3.35	1480
60	0	0	0	0.44	4.21	1175	3.64	1361
70	0	0	0	0.44	4.53	1093	3.94	1257
80	0	0	0	0.44	4.84	1023	4.24	1169
90	0	0	0	0.44	5.15	963	4.54	1092
100	0	0	0	0.44	5.44	911	4.83	1026
110	0	0	0	0.44	5.7	870	5.12	969
120	0	0	0	0.44	5.85	847	5.4	918
130	0	0	0	0.44	6.01	825	5.67	874
167	0	0	0	0.44	6.57	755	6.55	757
212	0	0	0	0.44	7.23	687	7.21	688

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.194	8.09	2956	7.97	3000*
0	0	0	0	0.44	5.36	1642	4.89	1802
30	0	0	0	0.44	6.54	1347	5.95	1481
40	0	0	0	0.44	6.92	1273	6.31	1397
50	0	0	0	0.44	7.29	1208	6.66	1322
60	0	0	0	0.44	7.66	1151	7.01	1256
70	0	0	0	0.44	8.01	1100	7.36	1197
80	0	0	0	0.44	8.35	1055	7.7	1144
90	0	0	0	0.44	8.69	1015	8.03	1097
100	0	0	0	0.44	9.02	978	8.36	1054
110	0	0	0	0.44	9.34	945	8.68	1015
120	0	0	0	0.44	9.61	918	9	980
130	0	0	0	0.44	9.79	901	9.3	948
167	0	0	0	0.44	10.44	845	10.39	850
212	0	0	0	0.44	11.21	787	11.19	789

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.273

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	12.59	2971	12.47	3000*
0	0	0	0	0.44	9.71	1418	9.13	1509
30	0	0	0	0.44	10.96	1257	10.32	1335
40	0	0	0	0.44	11.35	1213	10.7	1287
50	0	0	0	0.44	11.74	1173	11.08	1243
60	0	0	0	0.44	12.12	1137	11.46	1203
70	0	0	0	0.44	12.49	1103	11.82	1166
80	0	0	0	0.44	12.86	1072	12.18	1131
90	0	0	0	0.44	13.21	1043	12.53	1100
100	0	0	0	0.44	13.56	1017	12.88	1070
110	0	0	0	0.44	13.91	992	13.22	1043
120	0	0	0	0.44	14.24	969	13.56	1017
130	0	0	0	0.44	14.48	952	13.89	993
167	0	0	0	0.44	15.21	907	15.06	916
212	0	0	0	0.44	16.07	859	16.05	860

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5
100.00	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-9
125.00	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-2
150.00	0-5	0-6	0-6	0-7	0-8	0-10	0-11	1-2	1-5	1-9
175.00	0-7	0-8	0-9	0-10	0-11	1-1	1-4	1-7	1-11	2-4
200.00	0-9	0-10	0-11	1-1	1-3	1-5	1-8	2-1	2-6	3-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-3	0-4	0-5	0-5	0-6	0-6
100.00	0-3	0-3	0-3	0-4	0-5	0-7	0-8	0-9	0-10	0-11
125.00	0-4	0-5	0-5	0-7	0-8	0-10	1-1	1-3	1-4	1-5
150.00	0-6	0-7	0-8	0-9	1-0	1-3	1-6	1-9	1-11	2-0
175.00	0-8	0-9	0-11	1-1	1-4	1-8	2-1	2-4	2-7	2-9
200.00	0-10	1-0	1-2	1-5	1-9	2-2	2-9	3-1	3-4	3-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.275

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-7
125.00	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-10	0-11	1-0
150.00	0-6	0-7	0-7	0-8	0-10	0-11	1-0	1-2	1-3	1-5
175.00	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-7	1-9	1-11
200.00	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-0	2-3	2-6
225.00	1-2	1-3	1-5	1-7	1-9	2-0	2-3	2-7	2-10	3-2
250.00	1-5	1-7	1-9	1-11	2-2	2-6	2-10	3-2	3-6	3-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9
125.00	0-5	0-6	0-6	0-7	0-8	0-10	0-11	1-0	1-1	1-1
150.00	0-7	0-8	0-9	0-11	1-0	1-2	1-4	1-5	1-7	1-7
175.00	0-9	0-11	1-1	1-2	1-5	1-7	1-9	1-11	2-1	2-2
200.00	1-0	1-2	1-4	1-7	1-10	2-1	2-4	2-7	2-9	2-10
225.00	1-4	1-6	1-9	2-0	2-3	2-7	2-11	3-3	3-6	3-8
250.00	1-7	1-10	2-2	2-6	2-10	3-3	3-7	4-0	4-4	4-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.276

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Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3
175.00	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-9
200.00	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-0	2-2	2-3
225.00	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11
250.00	1-9	1-11	2-2	2-4	2-6	2-9	2-11	3-2	3-4	3-7
275.00	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-10	4-1	4-4
300.00	2-7	2-10	3-1	3-4	3-8	3-11	4-3	4-6	4-10	5-1
325.00	3-0	3-3	3-7	3-11	4-3	4-7	5-0	5-4	5-8	6-0
350.00	3-6	3-10	4-2	4-7	4-11	5-4	5-9	6-2	6-7	7-0
375.00	4-0	4-4	4-9	5-3	5-8	6-2	6-7	7-1	7-7	8-0

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-3	1-4	1-5
175.00	1-0	1-1	1-3	1-4	1-5	1-7	1-8	1-9	1-10	1-11
200.00	1-4	1-5	1-7	1-9	1-10	2-0	2-2	2-3	2-5	2-6
225.00	1-8	1-10	2-0	2-2	2-4	2-7	2-9	2-11	3-1	3-2
250.00	2-0	2-3	2-6	2-8	2-11	3-2	3-4	3-7	3-9	3-11
275.00	2-5	2-9	3-0	3-3	3-6	3-10	4-1	4-4	4-7	4-9
300.00	2-11	3-3	3-7	3-11	4-3	4-6	4-10	5-2	5-5	5-8
325.00	3-5	3-10	4-2	4-7	4-11	5-4	5-8	6-0	6-5	6-8
350.00	4-0	4-5	4-10	5-4	5-9	6-2	6-7	7-0	7-5	7-9
375.00	4-7	5-1	5-7	6-1	6-7	7-1	7-7	8-1	8-6	8-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.277

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
225.00	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-6	2-8	2-9
250.00	2-2	2-4	2-6	2-7	2-9	2-10	3-0	3-2	3-3	3-5
275.00	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10	3-11	4-1
300.00	3-2	3-4	3-7	3-9	3-11	4-2	4-4	4-6	4-8	4-11
325.00	3-8	3-11	4-2	4-5	4-8	4-10	5-1	5-4	5-6	5-9
350.00	4-3	4-7	4-10	5-1	5-4	5-8	5-11	6-2	6-5	6-8
375.00	4-11	5-3	5-7	5-10	6-2	6-6	6-9	7-1	7-4	7-8
400.00	5-7	5-11	6-4	6-8	7-0	7-4	7-8	8-0	8-4	8-8
425.00	6-4	6-9	7-1	7-6	7-11	8-4	8-8	9-1	9-5	9-10
450.00	7-1	7-6	8-0	8-5	8-11	9-4	9-9	10-2	10-7	11-0
475.00	7-11	8-5	8-11	9-5	9-11	10-5	10-10	11-4	11-10	12-3
500.00	8-9	9-4	9-10	10-5	11-0	11-6	12-0	12-7	13-1	13-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
225.00	1-11	2-1	2-2	2-4	2-5	2-6	2-8	2-9	2-10	2-11
250.00	2-5	2-7	2-8	2-10	3-0	3-2	3-3	3-5	3-6	3-8
275.00	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-5
300.00	3-6	3-8	3-11	4-1	4-4	4-6	4-8	4-11	5-1	5-3
325.00	4-1	4-4	4-7	4-10	5-1	5-3	5-6	5-9	5-11	6-2
350.00	4-9	5-0	5-4	5-7	5-10	6-2	6-5	6-8	6-11	7-2
375.00	5-5	5-9	6-1	6-5	6-9	7-0	7-4	7-8	7-11	8-2
400.00	6-2	6-6	6-11	7-4	7-8	8-0	8-4	8-8	9-0	9-4
425.00	6-11	7-5	7-10	8-3	8-8	9-1	9-5	9-10	10-2	10-6
450.00	7-9	8-3	8-9	9-3	9-8	10-2	10-7	11-0	11-5	11-10
475.00	8-8	9-3	9-9	10-3	10-10	11-4	11-9	12-3	12-9	13-2
500.00	9-7	10-3	10-10	11-5	12-0	12-6	13-1	13-7	14-1	14-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.278

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-6	2-7	2-8	2-9	2-10	2-11	3-1	3-2	3-3	3-4
275.00	3-0	3-1	3-3	3-4	3-6	3-7	3-8	3-9	3-11	4-0
300.00	3-7	3-9	3-10	4-0	4-1	4-3	4-5	4-6	4-8	4-9
325.00	4-2	4-4	4-6	4-8	4-10	5-0	5-2	5-4	5-5	5-7
350.00	4-10	5-1	5-3	5-5	5-7	5-9	6-0	6-2	6-4	6-6
375.00	5-7	5-10	6-0	6-3	6-5	6-8	6-10	7-1	7-3	7-5
400.00	6-4	6-7	6-10	7-1	7-4	7-7	7-10	8-0	8-3	8-6
425.00	7-2	7-5	7-9	8-0	8-3	8-6	8-10	9-1	9-4	9-7
450.00	8-0	8-4	8-8	9-0	9-3	9-7	9-10	10-2	10-5	10-9
475.00	8-11	9-4	9-8	10-0	10-4	10-8	11-0	11-4	11-7	11-11
500.00	9-11	10-4	10-8	11-1	11-5	11-10	12-2	12-6	12-11	13-3
525.00	10-11	11-5	11-10	12-3	12-8	13-0	13-5	13-10	14-2	14-7
550.00	12-0	12-6	12-11	13-5	13-10	14-4	14-9	15-2	15-7	16-0
575.00	13-2	13-8	14-2	14-8	15-2	15-8	16-1	16-7	17-0	17-6
600.00	14-4	14-10	15-5	16-0	16-6	17-0	17-7	18-1	18-7	19-1
625.00	15-6	16-2	16-9	17-4	17-11	18-6	19-0	19-7	20-2	20-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-8	2-9	2-10	2-11	3-0	3-1	3-3	3-4	3-5	3-6
275.00	3-2	3-4	3-5	3-7	3-8	3-9	3-11	4-0	4-1	4-2
300.00	3-10	3-11	4-1	4-3	4-4	4-6	4-8	4-9	4-11	5-0
325.00	4-5	4-8	4-10	5-0	5-1	5-3	5-5	5-7	5-9	5-10
350.00	5-2	5-4	5-7	5-9	5-11	6-1	6-4	6-6	6-8	6-10
375.00	5-11	6-2	6-5	6-7	6-10	7-0	7-3	7-5	7-8	7-10
400.00	6-9	7-0	7-3	7-6	7-9	8-0	8-3	8-5	8-8	8-11
425.00	7-7	7-11	8-2	8-6	8-9	9-0	9-3	9-7	9-10	10-1
450.00	8-7	8-10	9-2	9-6	9-10	10-1	10-5	10-8	11-0	11-3
475.00	9-6	9-11	10-3	10-7	10-11	11-3	11-7	11-11	12-3	12-7
500.00	10-7	10-11	11-4	11-9	12-1	12-6	12-10	13-3	13-7	13-11
525.00	11-8	12-1	12-6	12-11	13-4	13-9	14-2	14-7	14-11	15-4
550.00	12-9	13-3	13-9	14-3	14-8	15-1	15-7	16-0	16-5	16-10
575.00	13-11	14-6	15-0	15-6	16-0	16-6	17-0	17-6	17-11	18-5
600.00	15-2	15-9	16-4	16-11	17-6	18-0	18-6	19-0	19-6	20-0
625.00	16-6	17-2	17-9	18-4	18-11	19-6	20-1	20-8	21-2	21-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.279

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	2.43	1000	2.43	1000*
20	0	0	0	0.44	1.97	279	1.95	282
30	0	0	0	0.44	2.07	267	2.05	269
40	0	0	0	0.44	2.16	255	2.14	258
50	0	0	0	0.44	2.25	245	2.22	248
60	0	0	0	0.44	2.33	236	2.31	239
70	0	0	0	0.44	2.42	228	2.39	231
80	0	0	0	0.44	2.47	223	2.47	223
90	0	0	0	0.44	2.52	219	2.52	219
100	0	0	0	0.44	2.57	214	2.57	214
110	0	0	0	0.44	2.62	210	2.62	210
120	0	0	0	0.44	2.67	207	2.67	207
130	0	0	0	0.44	2.72	203	2.72	203
167	0	0	0	0.44	2.89	191	2.89	191
212	0	0	0	0.44	3.09	179	3.09	179

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	9.8	1000	9.8	1000*
20	0	0	0	0.44	9.36	237	9.33	238
30	0	0	0	0.44	9.45	235	9.42	236
40	0	0	0	0.44	9.53	233	9.51	233
50	0	0	0	0.44	9.62	231	9.59	232
60	0	0	0	0.44	9.7	229	9.67	230
70	0	0	0	0.44	9.78	227	9.75	228
80	0	0	0	0.44	9.83	226	9.83	226
90	0	0	0	0.44	9.89	225	9.89	225
100	0	0	0	0.44	9.94	223	9.94	223
110	0	0	0	0.44	10	222	10	222
120	0	0	0	0.44	10.05	221	10.05	221
130	0	0	0	0.44	10.11	220	10.11	220
167	0	0	0	0.44	10.3	216	10.3	216
212	0	0	0	0.44	10.53	211	10.53	211

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.280

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	22.32	1000	22.32	1000*
20	0	0	0	0.44	21.88	231	21.86	231
30	0	0	0	0.44	21.97	230	21.95	230
40	0	0	0	0.44	22.05	229	22.03	230
50	0	0	0	0.44	22.14	229	22.11	229
60	0	0	0	0.44	22.22	228	22.19	228
70	0	0	0	0.44	22.3	227	22.27	227
80	0	0	0	0.44	22.35	226	22.35	226
90	0	0	0	0.44	22.41	226	22.41	226
100	0	0	0	0.44	22.47	225	22.47	225
110	0	0	0	0.44	22.52	225	22.52	225
120	0	0	0	0.44	22.58	224	22.58	224
130	0	0	0	0.44	22.63	224	22.63	224
167	0	0	0	0.44	22.83	222	22.83	222
212	0	0	0	0.44	23.07	220	23.07	220

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	40.4	1000	40.4	1000*
20	0	0	0	0.44	39.97	229	39.94	229
30	0	0	0	0.44	40.05	229	40.03	229
40	0	0	0	0.44	40.14	228	40.11	228
50	0	0	0	0.44	40.22	228	40.2	228
60	0	0	0	0.44	40.3	227	40.28	227
70	0	0	0	0.44	40.38	227	40.36	227
80	0	0	0	0.44	40.44	227	40.44	227
90	0	0	0	0.44	40.5	226	40.5	226
100	0	0	0	0.44	40.55	226	40.55	226
110	0	0	0	0.44	40.61	226	40.61	226
120	0	0	0	0.44	40.66	225	40.66	225
130	0	0	0	0.44	40.72	225	40.72	225
167	0	0	0	0.44	40.92	224	40.92	224
212	0	0	0	0.44	41.16	223	41.16	223

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.281

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	64.73	1000	64.73	1000*
20	0	0	0	0.44	64.3	228	64.27	228
30	0	0	0	0.44	64.38	228	64.36	228
40	0	0	0	0.44	64.47	228	64.44	228
50	0	0	0	0.44	64.55	227	64.52	227
60	0	0	0	0.44	64.63	227	64.61	227
70	0	0	0	0.44	64.71	227	64.69	227
80	0	0	0	0.44	64.77	227	64.77	227
90	0	0	0	0.44	64.82	226	64.82	226
100	0	0	0	0.44	64.88	226	64.88	226
110	0	0	0	0.44	64.93	226	64.93	226
120	0	0	0	0.44	64.99	226	64.99	226
130	0	0	0	0.44	65.04	226	65.04	226
167	0	0	0	0.44	65.25	225	65.25	225
212	0	0	0	0.44	65.49	224	65.49	224

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-5	1-5	1-6
100.00	1-11	2-1	2-2	2-3	2-4	2-5	2-6	2-6	2-7	2-7
125.00	3-1	3-2	3-4	3-6	3-7	3-9	3-10	3-11	4-0	4-1
150.00	4-5	4-7	4-10	5-0	5-2	5-5	5-7	5-8	5-10	5-11
175.00	6-0	6-3	6-7	6-10	7-1	7-4	7-7	7-9	7-11	8-1
200.00	7-10	8-2	8-7	8-11	9-3	9-7	9-11	10-1	10-4	10-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-1	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-5	1-6
100.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-6	2-7	2-7
125.00	3-1	3-3	3-5	3-6	3-8	3-9	3-10	3-11	4-0	4-1
150.00	4-5	4-8	4-10	5-1	5-3	5-5	5-7	5-8	5-10	5-11
175.00	6-1	6-4	6-7	6-11	7-2	7-5	7-7	7-9	7-11	8-1
200.00	7-11	8-3	8-8	9-0	9-4	9-8	9-11	10-1	10-4	10-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.283

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Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-4	2-4	2-4	2-5	2-5	2-5	2-5	2-6	2-6	2-6
125.00	3-8	3-8	3-8	3-9	3-9	3-10	3-10	3-10	3-11	3-11
150.00	5-3	5-4	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-7
175.00	7-2	7-3	7-3	7-4	7-5	7-6	7-6	7-7	7-7	7-8
200.00	9-4	9-5	9-6	9-7	9-8	9-9	9-10	9-11	9-11	10-0
225.00	11-10	11-11	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8
250.00	14-7	14-9	14-11	15-0	15-2	15-3	15-5	15-6	15-7	15-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-4	2-4	2-5	2-5	2-5	2-5	2-5	2-6	2-6	2-6
125.00	3-8	3-8	3-9	3-9	3-9	3-10	3-10	3-10	3-11	3-11
150.00	5-3	5-4	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-7
175.00	7-2	7-3	7-4	7-4	7-5	7-6	7-6	7-7	7-7	7-8
200.00	9-4	9-5	9-6	9-7	9-8	9-9	9-10	9-11	9-11	10-0
225.00	11-10	12-0	12-1	12-2	12-3	12-5	12-5	12-6	12-7	12-8
250.00	14-8	14-9	14-11	15-1	15-2	15-4	15-5	15-6	15-7	15-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.284

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Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-5	5-5	5-6	5-6	5-6	5-6	5-7	5-7	5-7	5-7
175.00	7-5	7-5	7-6	7-6	7-6	7-7	7-7	7-7	7-7	7-8
200.00	9-8	9-9	9-9	9-9	9-10	9-10	9-11	9-11	9-11	10-0
225.00	12-3	12-4	12-4	12-5	12-5	12-6	12-6	12-7	12-7	12-8
250.00	15-2	15-3	15-3	15-4	15-5	15-5	15-6	15-6	15-7	15-7
275.00	18-4	18-5	18-6	18-7	18-8	18-8	18-9	18-10	18-10	18-11
300.00	21-10	21-11	22-0	22-1	22-2	22-3	22-4	22-5	22-6	22-6
325.00	25-8	25-9	25-11	26-0	26-1	26-2	26-3	26-4	26-5	26-6
350.00	29-10	29-11	30-1	30-2	30-3	30-5	30-6	30-7	30-8	30-9
375.00	34-3	34-5	34-7	34-8	34-10	34-11	35-1	35-2	35-3	35-4

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-5	5-6	5-6	5-6	5-6	5-7	5-7	5-7	5-7	5-7
175.00	7-5	7-5	7-6	7-6	7-6	7-7	7-7	7-7	7-7	7-8
200.00	9-8	9-9	9-9	9-10	9-10	9-10	9-11	9-11	9-11	10-0
225.00	12-3	12-4	12-4	12-5	12-6	12-6	12-6	12-7	12-7	12-8
250.00	15-2	15-3	15-3	15-4	15-5	15-5	15-6	15-6	15-7	15-7
275.00	18-4	18-5	18-6	18-7	18-8	18-9	18-9	18-10	18-10	18-11
300.00	21-11	22-0	22-1	22-2	22-3	22-4	22-4	22-5	22-6	22-6
325.00	25-9	25-10	25-11	26-0	26-1	26-2	26-3	26-4	26-5	26-6
350.00	29-10	30-0	30-1	30-2	30-4	30-5	30-6	30-7	30-8	30-9
375.00	34-4	34-6	34-7	34-9	34-10	35-0	35-1	35-2	35-3	35-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.285

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-11	9-11	9-11	9-11	10-0	10-0	10-0	10-0	10-0	10-1
225.00	12-6	12-7	12-7	12-7	12-8	12-8	12-8	12-8	12-9	12-9
250.00	15-6	15-6	15-7	15-7	15-7	15-8	15-8	15-8	15-9	15-9
275.00	18-9	18-10	18-10	18-10	18-11	18-11	19-0	19-0	19-0	19-1
300.00	22-4	22-5	22-5	22-6	22-6	22-7	22-7	22-8	22-8	22-8
325.00	26-3	26-4	26-4	26-5	26-6	26-6	26-7	26-7	26-8	26-8
350.00	30-6	30-7	30-7	30-8	30-9	30-10	30-10	30-11	30-11	31-0
375.00	35-1	35-2	35-2	35-3	35-4	35-5	35-6	35-6	35-7	35-8
400.00	39-11	40-0	40-1	40-2	40-3	40-4	40-5	40-6	40-7	40-7
425.00	45-2	45-3	45-4	45-5	45-7	45-8	45-9	45-10	45-10	45-11
450.00	50-9	50-10	50-11	51-1	51-2	51-3	51-4	51-5	51-6	51-7
475.00	56-7	56-9	56-10	57-0	57-1	57-3	57-4	57-5	57-6	57-7
500.00	62-10	63-0	63-2	63-3	63-5	63-6	63-8	63-9	63-10	63-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-11	9-11	9-11	9-11	10-0	10-0	10-0	10-0	10-0	10-1
225.00	12-6	12-7	12-7	12-7	12-8	12-8	12-8	12-8	12-9	12-9
250.00	15-6	15-6	15-7	15-7	15-7	15-8	15-8	15-8	15-9	15-9
275.00	18-9	18-10	18-10	18-11	18-11	18-11	19-0	19-0	19-0	19-1
300.00	22-4	22-5	22-5	22-6	22-6	22-7	22-7	22-8	22-8	22-8
325.00	26-3	26-4	26-5	26-5	26-6	26-6	26-7	26-7	26-8	26-8
350.00	30-6	30-7	30-8	30-8	30-9	30-10	30-10	30-11	30-11	31-0
375.00	35-1	35-2	35-3	35-4	35-4	35-5	35-6	35-6	35-7	35-8
400.00	40-0	40-1	40-2	40-3	40-4	40-5	40-5	40-6	40-7	40-7
425.00	45-2	45-4	45-5	45-6	45-7	45-8	45-9	45-10	45-10	45-11
450.00	50-9	50-10	51-0	51-1	51-2	51-3	51-4	51-5	51-6	51-7
475.00	56-8	56-9	56-11	57-0	57-2	57-3	57-4	57-5	57-6	57-7
500.00	62-11	63-1	63-2	63-4	63-5	63-7	63-8	63-9	63-10	63-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.286

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	15-10	15-10	15-10	15-11	15-11	15-11	15-11	15-11	16-0	16-0
275.00	19-2	19-2	19-3	19-3	19-3	19-3	19-4	19-4	19-4	19-4
300.00	22-10	22-10	22-11	22-11	22-11	23-0	23-0	23-0	23-0	23-1
325.00	26-10	26-10	26-11	26-11	27-0	27-0	27-0	27-1	27-1	27-1
350.00	31-2	31-2	31-3	31-3	31-4	31-4	31-5	31-5	31-5	31-6
375.00	35-10	35-10	35-11	36-0	36-0	36-1	36-1	36-1	36-2	36-2
400.00	40-10	40-11	40-11	41-0	41-0	41-1	41-2	41-2	41-2	41-3
425.00	46-2	46-3	46-3	46-4	46-5	46-6	46-6	46-7	46-7	46-8
450.00	51-10	51-11	52-0	52-1	52-1	52-2	52-3	52-4	52-4	52-5
475.00	57-11	58-0	58-0	58-1	58-2	58-3	58-4	58-5	58-5	58-6
500.00	64-3	64-4	64-5	64-6	64-7	64-8	64-9	64-10	64-11	64-11
525.00	71-0	71-1	71-2	71-4	71-5	71-6	71-7	71-8	71-8	71-9
550.00	78-1	78-3	78-4	78-5	78-6	78-7	78-9	78-9	78-10	78-11
575.00	85-7	85-8	85-10	85-11	86-0	86-2	86-3	86-4	86-5	86-6
600.00	93-5	93-7	93-8	93-9	93-11	94-0	94-2	94-3	94-4	94-5
625.00	101-7	101-9	101-11	102-0	102-2	102-3	102-5	102-6	102-7	102-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	15-10	15-10	15-10	15-11	15-11	15-11	15-11	15-11	16-0	16-0
275.00	19-2	19-2	19-3	19-3	19-3	19-3	19-4	19-4	19-4	19-4
300.00	22-10	22-10	22-11	22-11	22-11	23-0	23-0	23-0	23-0	23-1
325.00	26-10	26-10	26-11	26-11	27-0	27-0	27-0	27-1	27-1	27-1
350.00	31-2	31-3	31-3	31-3	31-4	31-4	31-5	31-5	31-5	31-6
375.00	35-10	35-11	35-11	36-0	36-0	36-1	36-1	36-1	36-2	36-2
400.00	40-10	40-11	40-11	41-0	41-1	41-1	41-2	41-2	41-2	41-3
425.00	46-2	46-3	46-4	46-4	46-5	46-6	46-6	46-7	46-7	46-8
450.00	51-11	51-11	52-0	52-1	52-2	52-2	52-3	52-4	52-4	52-5
475.00	57-11	58-0	58-1	58-2	58-3	58-3	58-4	58-5	58-5	58-6
500.00	64-4	64-5	64-6	64-7	64-8	64-9	64-9	64-10	64-11	64-11
525.00	71-1	71-2	71-3	71-4	71-5	71-6	71-7	71-8	71-8	71-9
550.00	78-2	78-3	78-4	78-5	78-7	78-8	78-9	78-9	78-10	78-11
575.00	85-7	85-9	85-10	85-11	86-1	86-2	86-3	86-4	86-5	86-6
600.00	93-5	93-7	93-8	93-10	93-11	94-1	94-2	94-3	94-4	94-5
625.00	101-8	101-10	101-11	102-1	102-2	102-4	102-5	102-6	102-7	102-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.287

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	1.62	1500	1.62	1500*
20	0	0	0	0.44	0.74	741	0.71	779
30	0	0	0	0.44	0.9	612	0.85	649
40	0	0	0	0.44	1.05	522	0.99	554
50	0	0	0	0.44	1.2	458	1.13	485
60	0	0	0	0.44	1.34	411	1.27	433
70	0	0	0	0.44	1.47	375	1.4	394
80	0	0	0	0.44	1.58	348	1.52	362
90	0	0	0	0.44	1.65	333	1.63	337
100	0	0	0	0.44	1.72	319	1.72	319
110	0	0	0	0.44	1.79	307	1.79	307
120	0	0	0	0.44	1.86	297	1.86	297
130	0	0	0	0.44	1.92	287	1.92	287
167	0	0	0	0.44	2.14	257	2.14	257
212	0	0	0	0.44	2.39	230	2.39	230

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	6.5	1500	6.5	1500*
20	0	0	0	0.44	5.68	388	5.63	392
30	0	0	0	0.44	5.82	379	5.76	383
40	0	0	0	0.44	5.95	371	5.89	375
50	0	0	0	0.44	6.09	363	6.02	367
60	0	0	0	0.44	6.21	355	6.15	359
70	0	0	0	0.44	6.34	348	6.27	352
80	0	0	0	0.44	6.46	342	6.39	346
90	0	0	0	0.44	6.54	338	6.51	339
100	0	0	0	0.44	6.62	334	6.62	334
110	0	0	0	0.44	6.7	330	6.7	330
120	0	0	0	0.44	6.77	326	6.77	326
130	0	0	0	0.44	6.85	323	6.85	323
167	0	0	0	0.44	7.13	310	7.13	310
212	0	0	0	0.44	7.45	297	7.45	297

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.288

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	14.69	1500	14.69	1500*
20	0	0	0	0.44	13.9	359	13.85	361
30	0	0	0	0.44	14.03	356	13.97	357
40	0	0	0	0.44	14.16	353	14.1	354
50	0	0	0	0.44	14.29	350	14.22	351
60	0	0	0	0.44	14.41	347	14.35	348
70	0	0	0	0.44	14.54	344	14.47	345
80	0	0	0	0.44	14.65	341	14.59	343
90	0	0	0	0.44	14.73	339	14.71	340
100	0	0	0	0.44	14.82	337	14.82	337
110	0	0	0	0.44	14.9	335	14.9	335
120	0	0	0	0.44	14.98	334	14.98	334
130	0	0	0	0.44	15.06	332	15.06	332
167	0	0	0	0.44	15.35	326	15.35	326
212	0	0	0	0.44	15.7	319	15.7	319

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	26.32	1500	26.32	1500*
20	0	0	0	0.44	25.54	350	25.48	351
30	0	0	0	0.44	25.66	349	25.61	349
40	0	0	0	0.44	25.79	347	25.73	348
50	0	0	0	0.44	25.92	345	25.85	346
60	0	0	0	0.44	26.04	344	25.97	345
70	0	0	0	0.44	26.17	342	26.1	343
80	0	0	0	0.44	26.28	341	26.22	341
90	0	0	0	0.44	26.36	340	26.34	340
100	0	0	0	0.44	26.45	339	26.45	339
110	0	0	0	0.44	26.53	338	26.53	338
120	0	0	0	0.44	26.61	337	26.61	337
130	0	0	0	0.44	26.69	336	26.69	336
167	0	0	0	0.44	26.99	332	26.99	332
212	0	0	0	0.44	27.35	328	27.35	328

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.289

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	41.55	1500	41.55	1500*
20	0	0	0	0.44	40.76	346	40.71	347
30	0	0	0	0.44	40.89	345	40.83	346
40	0	0	0	0.44	41.02	344	40.96	345
50	0	0	0	0.44	41.14	343	41.08	344
60	0	0	0	0.44	41.27	342	41.2	343
70	0	0	0	0.44	41.39	341	41.32	342
80	0	0	0	0.44	41.51	340	41.44	341
90	0	0	0	0.44	41.59	340	41.56	340
100	0	0	0	0.44	41.67	339	41.67	339
110	0	0	0	0.44	41.76	338	41.76	338
120	0	0	0	0.44	41.84	338	41.84	338
130	0	0	0	0.44	41.92	337	41.92	337
167	0	0	0	0.44	42.22	335	42.22	335
212	0	0	0	0.44	42.59	332	42.59	332

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.290

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-0
100.00	0-8	0-10	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-9
125.00	1-1	1-4	1-7	1-9	2-0	2-2	2-4	2-7	2-8	2-10
150.00	1-7	1-11	2-3	2-7	2-10	3-2	3-5	3-8	3-11	4-0
175.00	2-2	2-7	3-0	3-6	3-11	4-3	4-8	5-0	5-3	5-6
200.00	2-10	3-5	4-0	4-7	5-1	5-7	6-1	6-7	6-11	7-2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-0
100.00	0-9	0-11	1-1	1-2	1-4	1-6	1-7	1-8	1-9	1-9
125.00	1-2	1-5	1-8	1-11	2-1	2-4	2-6	2-7	2-8	2-10
150.00	1-8	2-0	2-4	2-8	3-0	3-4	3-7	3-9	3-11	4-0
175.00	2-3	2-9	3-3	3-8	4-1	4-6	4-10	5-1	5-3	5-6
200.00	3-0	3-7	4-3	4-10	5-4	5-11	6-4	6-7	6-11	7-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-8	1-8	1-8
125.00	2-2	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-7	2-7
150.00	3-2	3-3	3-4	3-5	3-5	3-6	3-7	3-8	3-9	3-9
175.00	4-4	4-5	4-6	4-7	4-8	4-10	4-11	5-0	5-1	5-1
200.00	5-8	5-9	5-11	6-0	6-2	6-3	6-5	6-6	6-7	6-8
225.00	7-1	7-4	7-6	7-7	7-9	7-11	8-1	8-3	8-5	8-6
250.00	8-10	9-0	9-3	9-5	9-7	9-10	10-0	10-2	10-4	10-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-5	1-6	1-6	1-7	1-7	1-7	1-8	1-8	1-8
125.00	2-3	2-3	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-7
150.00	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-8	3-9	3-9
175.00	4-4	4-5	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-1
200.00	5-8	5-10	5-11	6-1	6-3	6-4	6-5	6-6	6-7	6-8
225.00	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-3	8-5	8-6
250.00	8-11	9-1	9-4	9-6	9-9	9-11	10-1	10-3	10-4	10-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.292

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-5	3-6	3-6	3-7	3-7	3-7	3-8	3-8	3-8	3-9
175.00	4-8	4-9	4-9	4-10	4-10	4-11	4-11	5-0	5-0	5-1
200.00	6-2	6-2	6-3	6-4	6-4	6-5	6-6	6-6	6-7	6-7
225.00	7-9	7-10	7-11	8-0	8-1	8-2	8-2	8-3	8-4	8-4
250.00	9-7	9-8	9-9	9-10	9-11	10-0	10-1	10-2	10-3	10-4
275.00	11-8	11-9	11-10	11-11	12-1	12-2	12-3	12-4	12-5	12-6
300.00	13-10	14-0	14-1	14-3	14-4	14-6	14-7	14-9	14-10	14-11
325.00	16-3	16-5	16-7	16-8	16-10	17-0	17-2	17-3	17-5	17-6
350.00	18-10	19-0	19-3	19-5	19-7	19-9	19-11	20-1	20-2	20-4
375.00	21-8	21-10	22-1	22-3	22-5	22-8	22-10	23-0	23-2	23-4

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-6	3-6	3-6	3-7	3-7	3-8	3-8	3-8	3-8	3-9
175.00	4-9	4-9	4-10	4-10	4-11	4-11	5-0	5-0	5-0	5-1
200.00	6-2	6-3	6-3	6-4	6-5	6-5	6-6	6-6	6-7	6-7
225.00	7-10	7-11	7-11	8-0	8-1	8-2	8-3	8-3	8-4	8-4
250.00	9-8	9-9	9-10	9-11	10-0	10-1	10-2	10-3	10-3	10-4
275.00	11-8	11-9	11-11	12-0	12-1	12-3	12-4	12-4	12-5	12-6
300.00	13-11	14-0	14-2	14-3	14-5	14-6	14-8	14-9	14-10	14-11
325.00	16-4	16-6	16-8	16-9	16-11	17-1	17-2	17-4	17-5	17-6
350.00	18-11	19-1	19-4	19-6	19-8	19-10	20-0	20-1	20-2	20-4
375.00	21-9	22-0	22-2	22-4	22-7	22-9	22-11	23-1	23-2	23-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.293

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-4	6-5	6-5	6-5	6-6	6-6	6-6	6-7	6-7	6-7
225.00	8-0	8-1	8-1	8-2	8-2	8-3	8-3	8-4	8-4	8-4
250.00	9-11	10-0	10-0	10-1	10-1	10-2	10-2	10-3	10-4	10-4
275.00	12-0	12-1	12-2	12-2	12-3	12-4	12-4	12-5	12-6	12-6
300.00	14-4	14-4	14-5	14-6	14-7	14-8	14-9	14-9	14-10	14-11
325.00	16-10	16-10	16-11	17-0	17-1	17-2	17-3	17-4	17-5	17-6
350.00	19-6	19-7	19-8	19-9	19-10	19-11	20-1	20-2	20-3	20-3
375.00	22-5	22-6	22-7	22-8	22-10	22-11	23-0	23-2	23-3	23-4
400.00	25-6	25-7	25-9	25-10	26-0	26-1	26-3	26-4	26-5	26-6
425.00	28-9	28-11	29-1	29-2	29-4	29-6	29-7	29-9	29-11	30-0
450.00	32-4	32-5	32-7	32-9	32-11	33-1	33-3	33-5	33-6	33-8
475.00	36-0	36-2	36-4	36-6	36-9	36-11	37-1	37-3	37-5	37-6
500.00	39-11	40-2	40-4	40-6	40-9	40-11	41-1	41-3	41-6	41-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-4	6-5	6-5	6-5	6-6	6-6	6-7	6-7	6-7	6-7
225.00	8-1	8-1	8-2	8-2	8-3	8-3	8-3	8-4	8-4	8-4
250.00	9-11	10-0	10-0	10-1	10-2	10-2	10-3	10-3	10-4	10-4
275.00	12-0	12-1	12-2	12-3	12-3	12-4	12-5	12-5	12-6	12-6
300.00	14-4	14-5	14-6	14-7	14-7	14-8	14-9	14-10	14-10	14-11
325.00	16-10	16-11	17-0	17-1	17-2	17-3	17-4	17-4	17-5	17-6
350.00	19-6	19-7	19-9	19-10	19-11	20-0	20-1	20-2	20-3	20-3
375.00	22-5	22-6	22-8	22-9	22-10	23-0	23-1	23-2	23-3	23-4
400.00	25-6	25-8	25-9	25-11	26-1	26-2	26-3	26-4	26-5	26-6
425.00	28-10	29-0	29-2	29-3	29-5	29-7	29-8	29-9	29-11	30-0
450.00	32-4	32-6	32-8	32-10	33-0	33-2	33-4	33-5	33-6	33-8
475.00	36-1	36-3	36-5	36-8	36-10	37-0	37-2	37-3	37-5	37-6
500.00	40-0	40-3	40-5	40-7	40-10	41-0	41-2	41-4	41-6	41-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.294

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-1	10-2	10-2	10-2	10-3	10-3	10-3	10-4	10-4	10-4
275.00	12-3	12-3	12-4	12-4	12-5	12-5	12-5	12-6	12-6	12-7
300.00	14-7	14-7	14-8	14-8	14-9	14-9	14-10	14-11	14-11	14-11
325.00	17-1	17-2	17-3	17-3	17-4	17-4	17-5	17-6	17-6	17-7
350.00	19-10	19-11	20-0	20-0	20-1	20-2	20-3	20-3	20-4	20-4
375.00	22-10	22-11	22-11	23-0	23-1	23-2	23-3	23-3	23-4	23-5
400.00	26-0	26-1	26-2	26-2	26-3	26-4	26-5	26-6	26-7	26-8
425.00	29-4	29-5	29-6	29-7	29-8	29-9	29-10	29-11	30-0	30-1
450.00	32-11	33-0	33-1	33-3	33-4	33-5	33-6	33-7	33-8	33-9
475.00	36-9	36-10	36-11	37-0	37-2	37-3	37-4	37-6	37-7	37-8
500.00	40-9	40-10	40-11	41-1	41-2	41-4	41-5	41-7	41-8	41-9
525.00	44-11	45-1	45-2	45-4	45-6	45-7	45-9	45-10	46-0	46-1
550.00	49-4	49-6	49-8	49-10	49-11	50-1	50-3	50-5	50-6	50-7
575.00	54-0	54-2	54-4	54-6	54-8	54-10	55-0	55-2	55-3	55-5
600.00	58-10	59-0	59-2	59-5	59-7	59-9	59-11	60-1	60-3	60-4
625.00	63-11	64-1	64-4	64-6	64-8	64-11	65-1	65-3	65-5	65-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-1	10-2	10-2	10-3	10-3	10-3	10-4	10-4	10-4	10-4
275.00	12-3	12-4	12-4	12-4	12-5	12-5	12-6	12-6	12-6	12-7
300.00	14-7	14-8	14-8	14-9	14-9	14-10	14-10	14-11	14-11	14-11
325.00	17-2	17-2	17-3	17-4	17-4	17-5	17-5	17-6	17-6	17-7
350.00	19-11	19-11	20-0	20-1	20-2	20-2	20-3	20-3	20-4	20-4
375.00	22-10	22-11	23-0	23-1	23-1	23-2	23-3	23-4	23-4	23-5
400.00	26-0	26-1	26-2	26-3	26-4	26-5	26-6	26-6	26-7	26-8
425.00	29-5	29-6	29-7	29-8	29-9	29-10	29-11	30-0	30-0	30-1
450.00	33-0	33-1	33-2	33-3	33-4	33-6	33-7	33-8	33-8	33-9
475.00	36-9	36-10	37-0	37-1	37-3	37-4	37-5	37-6	37-7	37-8
500.00	40-9	40-11	41-0	41-2	41-3	41-5	41-6	41-7	41-8	41-9
525.00	45-0	45-1	45-3	45-5	45-6	45-8	45-10	45-11	46-0	46-1
550.00	49-5	49-7	49-9	49-10	50-0	50-2	50-4	50-5	50-6	50-7
575.00	54-1	54-3	54-5	54-7	54-9	54-11	55-1	55-2	55-3	55-5
600.00	58-11	59-1	59-4	59-6	59-8	59-10	60-0	60-2	60-3	60-4
625.00	64-0	64-2	64-5	64-7	64-10	65-0	65-2	65-4	65-5	65-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.295

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	1.24	1952	1.21	2000*
20	0	0	0	0.44	0.32	1742	0.3	1836
30	0	0	0	0.44	0.39	1428	0.35	1578
40	0	0	0	0.44	0.48	1145	0.41	1328
50	0	0	0	0.44	0.61	908	0.5	1096
60	0	0	0	0.44	0.75	730	0.62	894
70	0	0	0	0.44	0.91	604	0.75	734
80	0	0	0	0.44	1.06	517	0.89	615
90	0	0	0	0.44	1.16	475	1.04	529
100	0	0	0	0.44	1.23	446	1.18	466
110	0	0	0	0.44	1.31	420	1.31	420
120	0	0	0	0.44	1.39	397	1.39	397
130	0	0	0	0.44	1.46	377	1.46	377
167	0	0	0	0.44	1.72	320	1.72	320
212	0	0	0	0.44	2.01	274	2.01	274

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	4.86	2000	4.86	2000*
20	0	0	0	0.44	3.54	622	3.42	644
30	0	0	0	0.44	3.74	588	3.62	609
40	0	0	0	0.44	3.94	560	3.81	579
50	0	0	0	0.44	4.12	534	3.99	552
60	0	0	0	0.44	4.3	512	4.17	529
70	0	0	0	0.44	4.48	492	4.34	508
80	0	0	0	0.44	4.65	475	4.51	489
90	0	0	0	0.44	4.79	461	4.67	472
100	0	0	0	0.44	4.89	451	4.83	457
110	0	0	0	0.44	4.99	442	4.98	443
120	0	0	0	0.44	5.09	433	5.09	433
130	0	0	0	0.44	5.18	426	5.18	426
167	0	0	0	0.44	5.53	399	5.53	399
212	0	0	0	0.44	5.93	373	5.93	373

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.296

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	10.97	2000	10.97	2000*
20	0	0	0	0.44	9.71	512	9.59	518
30	0	0	0	0.44	9.89	503	9.77	509
40	0	0	0	0.44	10.07	494	9.94	500
50	0	0	0	0.44	10.24	485	10.11	492
60	0	0	0	0.44	10.42	477	10.28	484
70	0	0	0	0.44	10.59	470	10.45	476
80	0	0	0	0.44	10.75	463	10.61	469
90	0	0	0	0.44	10.89	457	10.78	462
100	0	0	0	0.44	11	452	10.94	455
110	0	0	0	0.44	11.11	448	11.09	449
120	0	0	0	0.44	11.21	444	11.21	444
130	0	0	0	0.44	11.32	440	11.32	440
167	0	0	0	0.44	11.69	426	11.69	426
212	0	0	0	0.44	12.14	410	12.14	410

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	19.59	2000	19.59	2000*
20	0	0	0	0.44	18.35	484	18.23	487
30	0	0	0	0.44	18.52	479	18.4	482
40	0	0	0	0.44	18.7	475	18.57	478
50	0	0	0	0.44	18.87	471	18.74	474
60	0	0	0	0.44	19.04	466	18.9	470
70	0	0	0	0.44	19.2	462	19.07	466
80	0	0	0	0.44	19.37	459	19.23	462
90	0	0	0	0.44	19.51	455	19.39	458
100	0	0	0	0.44	19.62	453	19.55	454
110	0	0	0	0.44	19.73	450	19.71	451
120	0	0	0	0.44	19.84	448	19.84	448
130	0	0	0	0.44	19.95	446	19.95	446
167	0	0	0	0.44	20.34	437	20.34	437
212	0	0	0	0.44	20.8	428	20.8	428

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.297

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	30.78	2000	30.78	2000*
20	0	0	0	0.44	29.55	472	29.43	474
30	0	0	0	0.44	29.72	469	29.6	471
40	0	0	0	0.44	29.89	467	29.77	468
50	0	0	0	0.44	30.06	464	29.93	466
60	0	0	0	0.44	30.23	462	30.09	464
70	0	0	0	0.44	30.39	459	30.26	461
80	0	0	0	0.44	30.56	457	30.42	459
90	0	0	0	0.44	30.7	455	30.58	456
100	0	0	0	0.44	30.81	453	30.74	454
110	0	0	0	0.44	30.92	452	30.9	452
120	0	0	0	0.44	31.03	450	31.03	450
130	0	0	0	0.44	31.14	448	31.14	448
167	0	0	0	0.44	31.54	443	31.54	443
212	0	0	0	0.44	32.01	437	32.01	437

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.298

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9
100.00	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-0	1-2	1-4
125.00	0-6	0-7	0-8	0-9	1-0	1-2	1-5	1-8	1-10	2-1
150.00	0-8	0-9	0-11	1-2	1-5	1-8	2-0	2-4	2-8	2-11
175.00	0-11	1-1	1-3	1-6	1-11	2-4	2-9	3-2	3-7	4-0
200.00	1-2	1-5	1-8	2-0	2-6	3-0	3-7	4-2	4-9	5-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9
100.00	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-3	1-4
125.00	0-6	0-7	0-9	0-11	1-2	1-5	1-8	1-10	1-11	2-1
150.00	0-9	0-10	1-1	1-4	1-8	2-1	2-5	2-7	2-9	2-11
175.00	1-0	1-2	1-6	1-10	2-4	2-9	3-3	3-7	3-9	4-0
200.00	1-3	1-6	1-11	2-5	3-0	3-8	4-3	4-8	4-11	5-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.299

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-2	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11
150.00	1-11	2-0	2-2	2-3	2-4	2-5	2-6	2-8	2-9	2-10
175.00	2-7	2-9	2-11	3-1	3-2	3-4	3-5	3-7	3-8	3-10
200.00	3-5	3-7	3-10	4-0	4-2	4-4	4-6	4-8	4-10	5-0
225.00	4-4	4-7	4-10	5-1	5-3	5-6	5-8	5-11	6-1	6-4
250.00	5-4	5-8	5-11	6-3	6-6	6-9	7-1	7-4	7-7	7-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3
125.00	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-10	1-11	1-11
150.00	2-0	2-1	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
175.00	2-9	2-10	3-0	3-2	3-4	3-5	3-7	3-8	3-9	3-10
200.00	3-7	3-9	3-11	4-1	4-4	4-6	4-8	4-9	4-11	5-0
225.00	4-6	4-9	5-0	5-3	5-5	5-8	5-11	6-1	6-2	6-4
250.00	5-6	5-10	6-2	6-5	6-9	7-0	7-3	7-6	7-8	7-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.300

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-5	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-9	2-9
175.00	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-9	3-9
200.00	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-9	4-10	4-11
225.00	5-5	5-6	5-7	5-8	5-9	5-10	6-0	6-1	6-2	6-3
250.00	6-8	6-9	6-11	7-0	7-2	7-3	7-4	7-6	7-7	7-8
275.00	8-1	8-2	8-4	8-6	8-8	8-9	8-11	9-1	9-2	9-4
300.00	9-7	9-9	9-11	10-1	10-3	10-5	10-7	10-9	10-11	11-1
325.00	11-3	11-6	11-8	11-10	12-1	12-3	12-6	12-8	12-10	13-0
350.00	13-1	13-4	13-6	13-9	14-0	14-3	14-5	14-8	14-11	15-1
375.00	15-0	15-3	15-7	15-10	16-1	16-4	16-7	16-10	17-1	17-4

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-9
175.00	3-4	3-4	3-5	3-6	3-6	3-7	3-8	3-8	3-9	3-9
200.00	4-4	4-5	4-6	4-7	4-8	4-8	4-9	4-10	4-11	4-11
225.00	5-6	5-7	5-8	5-9	5-10	5-11	6-1	6-1	6-2	6-3
250.00	6-9	6-10	7-0	7-1	7-3	7-4	7-6	7-7	7-8	7-8
275.00	8-2	8-4	8-6	8-7	8-9	8-11	9-0	9-2	9-3	9-4
300.00	9-9	9-11	10-1	10-3	10-5	10-7	10-9	10-11	11-0	11-1
325.00	11-5	11-7	11-10	12-0	12-3	12-5	12-7	12-9	12-11	13-0
350.00	13-3	13-6	13-9	13-11	14-2	14-5	14-8	14-10	15-0	15-2
375.00	15-2	15-6	15-9	16-0	16-3	16-7	16-10	17-0	17-2	17-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.301

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-7	4-7	4-8	4-8	4-9	4-9	4-10	4-10	4-11	4-11
225.00	5-9	5-10	5-10	5-11	6-0	6-0	6-1	6-1	6-2	6-3
250.00	7-1	7-2	7-3	7-4	7-4	7-5	7-6	7-7	7-7	7-8
275.00	8-7	8-8	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4
300.00	10-3	10-4	10-5	10-6	10-7	10-9	10-10	10-11	11-0	11-1
325.00	12-0	12-2	12-3	12-4	12-6	12-7	12-8	12-9	12-11	13-0
350.00	13-11	14-1	14-3	14-4	14-6	14-7	14-9	14-10	15-0	15-1
375.00	16-0	16-2	16-4	16-6	16-7	16-9	16-11	17-0	17-2	17-4
400.00	18-3	18-5	18-7	18-9	18-11	19-1	19-3	19-5	19-7	19-9
425.00	20-7	20-9	21-0	21-2	21-4	21-6	21-9	21-11	22-1	22-3
450.00	23-1	23-4	23-6	23-9	23-11	24-2	24-4	24-7	24-9	25-0
475.00	25-9	26-0	26-3	26-5	26-8	26-11	27-2	27-5	27-7	27-10
500.00	28-6	28-10	29-1	29-4	29-7	29-10	30-1	30-4	30-7	30-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-7	4-7	4-8	4-8	4-9	4-9	4-10	4-10	4-11	4-11
225.00	5-10	5-10	5-11	5-11	6-0	6-1	6-1	6-2	6-2	6-3
250.00	7-2	7-3	7-3	7-4	7-5	7-6	7-7	7-7	7-8	7-8
275.00	8-8	8-9	8-10	8-11	9-0	9-1	9-2	9-2	9-3	9-4
300.00	10-4	10-5	10-6	10-7	10-8	10-9	10-11	11-0	11-0	11-1
325.00	12-1	12-3	12-4	12-5	12-7	12-8	12-9	12-10	12-11	13-0
350.00	14-0	14-2	14-4	14-5	14-7	14-8	14-10	14-11	15-0	15-1
375.00	16-1	16-3	16-5	16-7	16-9	16-10	17-0	17-2	17-3	17-4
400.00	18-4	18-6	18-8	18-10	19-0	19-2	19-4	19-6	19-7	19-9
425.00	20-9	20-11	21-1	21-4	21-6	21-8	21-11	22-0	22-2	22-3
450.00	23-3	23-6	23-8	23-11	24-1	24-4	24-6	24-9	24-10	25-0
475.00	25-11	26-2	26-5	26-8	26-11	27-1	27-4	27-7	27-8	27-10
500.00	28-9	29-0	29-3	29-6	29-10	30-1	30-4	30-6	30-9	30-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.302

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-4	7-4	7-5	7-5	7-6	7-6	7-7	7-7	7-8	7-8
275.00	8-11	8-11	9-0	9-0	9-1	9-1	9-2	9-3	9-3	9-4
300.00	10-7	10-7	10-8	10-9	10-10	10-10	10-11	11-0	11-0	11-1
325.00	12-5	12-6	12-7	12-7	12-8	12-9	12-10	12-11	12-11	13-0
350.00	14-5	14-6	14-7	14-8	14-9	14-9	14-10	14-11	15-0	15-1
375.00	16-6	16-7	16-9	16-10	16-11	17-0	17-1	17-2	17-3	17-4
400.00	18-10	18-11	19-0	19-1	19-3	19-4	19-5	19-6	19-8	19-9
425.00	21-3	21-4	21-6	21-7	21-9	21-10	21-11	22-1	22-2	22-4
450.00	23-10	23-11	24-1	24-3	24-4	24-6	24-7	24-9	24-11	25-0
475.00	26-7	26-8	26-10	27-0	27-2	27-4	27-5	27-7	27-9	27-11
500.00	29-5	29-7	29-9	29-11	30-1	30-3	30-5	30-7	30-9	30-11
525.00	32-6	32-8	32-10	33-0	33-2	33-5	33-7	33-9	33-11	34-1
550.00	35-8	35-10	36-1	36-3	36-5	36-8	36-10	37-1	37-3	37-5
575.00	39-0	39-2	39-5	39-8	39-10	40-1	40-4	40-6	40-9	40-11
600.00	42-6	42-9	42-11	43-2	43-5	43-8	43-11	44-2	44-4	44-7
625.00	46-1	46-4	46-8	46-11	47-2	47-5	47-8	47-11	48-2	48-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-4	7-5	7-5	7-6	7-6	7-7	7-7	7-8	7-8	7-8
275.00	8-11	9-0	9-0	9-1	9-1	9-2	9-3	9-3	9-3	9-4
300.00	10-7	10-8	10-9	10-9	10-10	10-11	11-0	11-0	11-1	11-1
325.00	12-5	12-6	12-7	12-8	12-9	12-10	12-10	12-11	13-0	13-0
350.00	14-5	14-6	14-7	14-8	14-9	14-10	14-11	15-0	15-1	15-1
375.00	16-7	16-8	16-9	16-10	17-0	17-1	17-2	17-3	17-4	17-4
400.00	18-11	19-0	19-1	19-2	19-4	19-5	19-6	19-7	19-8	19-9
425.00	21-4	21-5	21-7	21-8	21-10	21-11	22-1	22-2	22-3	22-4
450.00	23-11	24-1	24-2	24-4	24-6	24-7	24-9	24-10	24-11	25-0
475.00	26-8	26-10	27-0	27-1	27-3	27-5	27-7	27-8	27-9	27-11
500.00	29-7	29-9	29-11	30-1	30-3	30-5	30-7	30-8	30-10	30-11
525.00	32-7	32-9	33-0	33-2	33-4	33-6	33-9	33-10	34-0	34-1
550.00	35-9	36-0	36-2	36-5	36-7	36-10	37-0	37-2	37-4	37-5
575.00	39-2	39-4	39-7	39-10	40-0	40-3	40-6	40-8	40-10	40-11
600.00	42-8	42-11	43-2	43-4	43-7	43-10	44-1	44-4	44-6	44-7
625.00	46-3	46-7	46-10	47-1	47-4	47-7	47-11	48-1	48-3	48-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.303

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	1.06	2300	0.97	2500*
20	0	0	0	0.44	0.23	2430	0.21	2673
30	0	0	0	0.44	0.26	2090	0.23	2413
40	0	0	0	0.44	0.31	1758	0.26	2150
50	0	0	0	0.44	0.38	1444	0.29	1886
60	0	0	0	0.44	0.47	1158	0.34	1624
70	0	0	0	0.44	0.6	919	0.4	1369
80	0	0	0	0.44	0.75	737	0.49	1131
90	0	0	0	0.44	0.84	658	0.6	923
100	0	0	0	0.44	0.9	608	0.73	755
110	0	0	0	0.44	0.98	564	0.87	630
120	0	0	0	0.44	1.05	525	1.02	539
130	0	0	0	0.44	1.12	490	1.12	492
167	0	0	0	0.44	1.4	393	1.4	394
212	0	0	0	0.44	1.72	320	1.72	321

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	3.89	2499	3.89	2500*
20	0	0	0	0.44	1.99	1105	1.83	1205
30	0	0	0	0.44	2.24	982	2.05	1075
40	0	0	0	0.44	2.49	884	2.28	967
50	0	0	0	0.44	2.73	806	2.51	879
60	0	0	0	0.44	2.96	743	2.73	806
70	0	0	0	0.44	3.19	691	2.95	746
80	0	0	0	0.44	3.4	647	3.17	696
90	0	0	0	0.44	3.61	610	3.37	653
100	0	0	0	0.44	3.77	585	3.57	617
110	0	0	0	0.44	3.88	568	3.76	585
120	0	0	0	0.44	3.99	552	3.95	558
130	0	0	0	0.44	4.11	536	4.11	536
167	0	0	0	0.44	4.51	489	4.51	489
212	0	0	0	0.44	4.96	444	4.96	444

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.304

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	8.76	2500	8.76	2500*
20	0	0	0	0.44	6.91	718	6.69	742
30	0	0	0	0.44	7.15	694	6.92	716
40	0	0	0	0.44	7.38	672	7.15	693
50	0	0	0	0.44	7.61	652	7.38	672
60	0	0	0	0.44	7.83	634	7.6	653
70	0	0	0	0.44	8.05	617	7.82	635
80	0	0	0	0.44	8.27	601	8.03	618
90	0	0	0	0.44	8.47	586	8.23	603
100	0	0	0	0.44	8.63	576	8.44	589
110	0	0	0	0.44	8.76	567	8.63	575
120	0	0	0	0.44	8.88	559	8.83	563
130	0	0	0	0.44	9.01	551	9.01	551
167	0	0	0	0.44	9.46	525	9.46	525
212	0	0	0	0.44	9.99	498	9.99	498

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	15.62	2500	15.62	2500*
20	0	0	0	0.44	13.81	640	13.6	650
30	0	0	0	0.44	14.04	630	13.82	640
40	0	0	0	0.44	14.26	620	14.04	630
50	0	0	0	0.44	14.48	611	14.25	621
60	0	0	0	0.44	14.69	602	14.46	612
70	0	0	0	0.44	14.91	594	14.67	603
80	0	0	0	0.44	15.12	585	14.88	595
90	0	0	0	0.44	15.33	577	15.09	587
100	0	0	0	0.44	15.48	572	15.29	579
110	0	0	0	0.44	15.61	567	15.49	572
120	0	0	0	0.44	15.74	562	15.69	564
130	0	0	0	0.44	15.88	558	15.88	558
167	0	0	0	0.44	16.35	542	16.35	542
212	0	0	0	0.44	16.91	524	16.91	524

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.305

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	24.49	2500	24.49	2500*
20	0	0	0	0.44	22.7	611	22.5	616
30	0	0	0	0.44	22.92	605	22.71	610
40	0	0	0	0.44	23.14	599	22.92	605
50	0	0	0	0.44	23.35	594	23.13	600
60	0	0	0	0.44	23.57	589	23.34	594
70	0	0	0	0.44	23.78	583	23.55	589
80	0	0	0	0.44	23.99	578	23.75	584
90	0	0	0	0.44	24.2	574	23.96	579
100	0	0	0	0.44	24.35	570	24.16	575
110	0	0	0	0.44	24.48	567	24.36	570
120	0	0	0	0.44	24.62	564	24.56	565
130	0	0	0	0.44	24.75	561	24.75	561
167	0	0	0	0.44	25.24	550	25.24	550
212	0	0	0	0.44	25.82	538	25.82	538

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.306

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6
100.00	0-2	0-3	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-10
125.00	0-4	0-4	0-5	0-5	0-6	0-8	0-9	0-11	1-2	1-4
150.00	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-8	2-0
175.00	0-8	0-8	0-9	0-11	1-0	1-3	1-6	1-10	2-3	2-8
200.00	0-10	0-11	1-0	1-2	1-4	1-7	1-11	2-5	2-11	3-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6	0-7
100.00	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-10	0-11	1-0
125.00	0-4	0-5	0-6	0-7	0-9	0-11	1-2	1-4	1-5	1-6
150.00	0-6	0-7	0-8	0-10	1-1	1-4	1-8	1-11	2-0	2-2
175.00	0-8	0-10	0-11	1-2	1-5	1-10	2-3	2-7	2-9	3-0
200.00	0-11	1-1	1-3	1-6	1-11	2-5	3-0	3-4	3-7	3-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.307

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-7	0-8	0-8	0-9	0-9	0-10	0-11	0-11
125.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
150.00	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-1
175.00	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11
200.00	1-10	2-1	2-3	2-6	2-9	2-11	3-2	3-4	3-7	3-9
225.00	2-4	2-7	2-11	3-2	3-5	3-9	4-0	4-3	4-6	4-9
250.00	2-10	3-2	3-7	3-11	4-3	4-7	4-11	5-3	5-7	5-11

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11	0-11	1-0
125.00	0-9	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-6
150.00	1-1	1-3	1-5	1-6	1-8	1-10	1-11	2-0	2-1	2-2
175.00	1-6	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-0
200.00	2-0	2-3	2-6	2-9	3-0	3-2	3-5	3-7	3-9	3-11
225.00	2-6	2-10	3-2	3-5	3-9	4-0	4-4	4-7	4-9	4-11
250.00	3-1	3-6	3-11	4-3	4-8	5-0	5-4	5-8	5-11	6-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.308

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2
175.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-10	2-11
200.00	3-0	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-9	3-10
225.00	3-9	3-11	4-0	4-2	4-3	4-5	4-6	4-8	4-9	4-10
250.00	4-8	4-10	5-0	5-1	5-3	5-5	5-7	5-9	5-10	6-0
275.00	5-7	5-10	6-0	6-2	6-5	6-7	6-9	6-11	7-1	7-3
300.00	6-8	6-11	7-2	7-5	7-7	7-10	8-0	8-3	8-5	8-8
325.00	7-10	8-2	8-5	8-8	8-11	9-2	9-5	9-8	9-11	10-2
350.00	9-1	9-5	9-9	10-1	10-4	10-8	10-11	11-3	11-6	11-9
375.00	10-5	10-10	11-2	11-6	11-11	12-3	12-7	12-10	13-2	13-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-9	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-2
175.00	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0
200.00	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-9	3-10	3-11
225.00	3-11	4-0	4-2	4-3	4-5	4-6	4-8	4-9	4-10	4-11
250.00	4-10	5-0	5-2	5-3	5-5	5-7	5-9	5-11	6-0	6-1
275.00	5-10	6-0	6-2	6-5	6-7	6-9	6-11	7-1	7-3	7-4
300.00	6-11	7-2	7-5	7-7	7-10	8-1	8-3	8-6	8-8	8-9
325.00	8-1	8-5	8-8	8-11	9-2	9-5	9-8	9-11	10-2	10-3
350.00	9-5	9-9	10-1	10-4	10-8	11-0	11-3	11-6	11-9	11-11
375.00	10-10	11-2	11-6	11-11	12-3	12-7	12-11	13-3	13-6	13-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.309

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-5	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10	3-10
225.00	4-4	4-4	4-5	4-6	4-7	4-8	4-8	4-9	4-10	4-11
250.00	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1
275.00	6-5	6-6	6-8	6-9	6-10	6-11	7-0	7-1	7-3	7-4
300.00	7-8	7-9	7-11	8-0	8-2	8-3	8-4	8-6	8-7	8-8
325.00	9-0	9-1	9-3	9-5	9-7	9-8	9-10	9-11	10-1	10-3
350.00	10-5	10-7	10-9	10-11	11-1	11-3	11-5	11-7	11-8	11-10
375.00	11-11	12-2	12-4	12-6	12-9	12-11	13-1	13-3	13-5	13-7
400.00	13-7	13-10	14-0	14-3	14-6	14-8	14-11	15-1	15-3	15-6
425.00	15-4	15-7	15-10	16-1	16-4	16-7	16-10	17-0	17-3	17-6
450.00	17-3	17-6	17-9	18-1	18-4	18-7	18-10	19-1	19-4	19-7
475.00	19-2	19-6	19-10	20-1	20-5	20-8	21-0	21-3	21-7	21-10
500.00	21-3	21-7	21-11	22-3	22-7	22-11	23-3	23-7	23-11	24-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10	3-10	3-11
225.00	4-4	4-5	4-6	4-7	4-8	4-9	4-9	4-10	4-11	4-11
250.00	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-0	6-1
275.00	6-6	6-8	6-9	6-10	6-11	7-0	7-2	7-3	7-4	7-4
300.00	7-9	7-11	8-0	8-2	8-3	8-5	8-6	8-7	8-8	8-9
325.00	9-1	9-3	9-5	9-7	9-8	9-10	10-0	10-1	10-3	10-4
350.00	10-7	10-9	10-11	11-1	11-3	11-5	11-7	11-9	11-10	11-11
375.00	12-2	12-4	12-6	12-9	12-11	13-1	13-3	13-6	13-7	13-9
400.00	13-10	14-0	14-3	14-6	14-8	14-11	15-1	15-4	15-6	15-7
425.00	15-7	15-10	16-1	16-4	16-7	16-10	17-1	17-4	17-6	17-8
450.00	17-6	17-9	18-1	18-4	18-7	18-11	19-2	19-5	19-7	19-9
475.00	19-6	19-10	20-1	20-5	20-9	21-0	21-4	21-8	21-10	22-0
500.00	21-7	21-11	22-4	22-8	23-0	23-4	23-8	24-0	24-3	24-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.310

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-7	5-8	5-9	5-9	5-10	5-10	5-11	6-0	6-0	6-1
275.00	6-10	6-10	6-11	7-0	7-1	7-1	7-2	7-3	7-4	7-4
300.00	8-1	8-2	8-3	8-4	8-5	8-6	8-6	8-7	8-8	8-9
325.00	9-6	9-7	9-8	9-9	9-10	9-11	10-0	10-1	10-2	10-3
350.00	11-0	11-1	11-3	11-4	11-5	11-6	11-7	11-9	11-10	11-11
375.00	12-8	12-9	12-11	13-0	13-1	13-3	13-4	13-5	13-7	13-8
400.00	14-5	14-6	14-8	14-9	14-11	15-1	15-2	15-4	15-5	15-7
425.00	16-3	16-5	16-7	16-8	16-10	17-0	17-2	17-4	17-5	17-7
450.00	18-3	18-5	18-7	18-9	18-11	19-1	19-3	19-5	19-7	19-9
475.00	20-4	20-6	20-8	20-10	21-1	21-3	21-5	21-7	21-10	22-0
500.00	22-6	22-9	22-11	23-2	23-4	23-7	23-9	23-11	24-2	24-4
525.00	24-10	25-1	25-3	25-6	25-9	26-0	26-2	26-5	26-8	26-10
550.00	27-3	27-6	27-9	28-0	28-3	28-6	28-9	29-0	29-3	29-6
575.00	29-9	30-1	30-4	30-7	30-11	31-2	31-5	31-9	32-0	32-3
600.00	32-5	32-9	33-1	33-4	33-8	33-11	34-3	34-6	34-10	35-1
625.00	35-2	35-6	35-10	36-2	36-6	36-10	37-2	37-6	37-10	38-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-8	5-9	5-9	5-10	5-11	5-11	6-0	6-0	6-1	6-1
275.00	6-10	6-11	7-0	7-1	7-1	7-2	7-3	7-4	7-4	7-5
300.00	8-2	8-3	8-4	8-5	8-6	8-7	8-7	8-8	8-9	8-10
325.00	9-7	9-8	9-9	9-10	9-11	10-0	10-1	10-2	10-3	10-4
350.00	11-1	11-3	11-4	11-5	11-6	11-8	11-9	11-10	11-11	12-0
375.00	12-9	12-11	13-0	13-1	13-3	13-4	13-6	13-7	13-8	13-9
400.00	14-6	14-8	14-10	14-11	15-1	15-2	15-4	15-6	15-7	15-8
425.00	16-5	16-7	16-8	16-10	17-0	17-2	17-4	17-6	17-7	17-8
450.00	18-5	18-7	18-9	18-11	19-1	19-3	19-5	19-7	19-9	19-10
475.00	20-6	20-8	20-11	21-1	21-3	21-5	21-8	21-10	22-0	22-1
500.00	22-8	22-11	23-2	23-4	23-7	23-9	24-0	24-2	24-4	24-6
525.00	25-0	25-3	25-6	25-9	26-0	26-3	26-5	26-8	26-10	27-0
550.00	27-6	27-9	28-0	28-3	28-6	28-9	29-1	29-4	29-6	29-8
575.00	30-1	30-4	30-8	30-11	31-2	31-6	31-9	32-0	32-3	32-5
600.00	32-9	33-1	33-4	33-8	34-0	34-3	34-7	34-11	35-1	35-4
625.00	35-6	35-10	36-3	36-7	36-11	37-3	37-7	37-10	38-1	38-4

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SHEET 311 OF 359

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.311

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	0.93	2599	0.81	3000*
20	0	0	0	0.44	0.19	2930	0.16	3346
30	0	0	0	0.44	0.21	2582	0.18	3095
40	0	0	0	0.44	0.25	2238	0.19	2839
50	0	0	0	0.44	0.29	1902	0.21	2579
60	0	0	0	0.44	0.35	1579	0.24	2315
70	0	0	0	0.44	0.43	1279	0.27	2049
80	0	0	0	0.44	0.54	1017	0.31	1783
90	0	0	0	0.44	0.63	869	0.36	1520
100	0	0	0	0.44	0.68	804	0.43	1269
110	0	0	0	0.44	0.74	742	0.53	1040
120	0	0	0	0.44	0.8	686	0.65	846
130	0	0	0	0.44	0.87	634	0.79	696
167	0	0	0	0.44	1.14	484	1.12	493
212	0	0	0	0.44	1.47	374	1.45	379

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	3.3	2942	3.24	3000*
20	0	0	0	0.44	1.16	1900	1.02	2156
30	0	0	0	0.44	1.34	1643	1.14	1927
40	0	0	0	0.44	1.55	1420	1.29	1710
50	0	0	0	0.44	1.78	1235	1.46	1511
60	0	0	0	0.44	2.03	1085	1.65	1333
70	0	0	0	0.44	2.28	966	1.86	1181
80	0	0	0	0.44	2.52	872	2.09	1053
90	0	0	0	0.44	2.76	796	2.32	949
100	0	0	0	0.44	2.96	744	2.55	863
110	0	0	0	0.44	3.08	716	2.78	793
120	0	0	0	0.44	3.2	689	3	735
130	0	0	0	0.44	3.32	664	3.21	686
167	0	0	0	0.44	3.75	588	3.74	589
212	0	0	0	0.44	4.25	519	4.25	519

* Design Condition

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SHEET 312 OF 359

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.312

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	7.29	3000	7.29	3000*
20	0	0	0	0.44	4.73	1047	4.39	1128
30	0	0	0	0.44	5.04	983	4.68	1058
40	0	0	0	0.44	5.34	929	4.97	997
50	0	0	0	0.44	5.62	882	5.25	944
60	0	0	0	0.44	5.9	840	5.53	897
70	0	0	0	0.44	6.17	803	5.8	855
80	0	0	0	0.44	6.43	771	6.06	819
90	0	0	0	0.44	6.69	742	6.31	786
100	0	0	0	0.44	6.94	715	6.56	756
110	0	0	0	0.44	7.09	699	6.8	729
120	0	0	0	0.44	7.24	686	7.04	705
130	0	0	0	0.44	7.38	672	7.27	683
167	0	0	0	0.44	7.89	629	7.89	629
212	0	0	0	0.44	8.49	585	8.49	585

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	12.99	3000	12.99	3000*
20	0	0	0	0.44	10.5	841	10.14	870
30	0	0	0	0.44	10.78	819	10.42	847
40	0	0	0	0.44	11.06	798	10.7	825
50	0	0	0	0.44	11.33	779	10.97	805
60	0	0	0	0.44	11.6	761	11.23	786
70	0	0	0	0.44	11.87	744	11.49	768
80	0	0	0	0.44	12.12	729	11.75	752
90	0	0	0	0.44	12.38	714	12	736
100	0	0	0	0.44	12.62	700	12.24	721
110	0	0	0	0.44	12.78	692	12.49	707
120	0	0	0	0.44	12.93	683	12.73	694
130	0	0	0	0.44	13.08	676	12.96	682
167	0	0	0	0.44	13.63	648	13.63	649
212	0	0	0	0.44	14.28	619	14.28	619

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.313

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	20.35	3000	20.35	3000*
20	0	0	0	0.44	17.9	772	17.55	787
30	0	0	0	0.44	18.17	761	17.82	776
40	0	0	0	0.44	18.44	750	18.08	764
50	0	0	0	0.44	18.7	739	18.34	754
60	0	0	0	0.44	18.96	729	18.6	743
70	0	0	0	0.44	19.22	720	18.85	734
80	0	0	0	0.44	19.48	710	19.1	724
90	0	0	0	0.44	19.73	701	19.35	715
100	0	0	0	0.44	19.97	693	19.6	706
110	0	0	0	0.44	20.13	688	19.84	697
120	0	0	0	0.44	20.29	682	20.08	689
130	0	0	0	0.44	20.44	677	20.32	681
167	0	0	0	0.44	21.01	659	21.01	659
212	0	0	0	0.44	21.69	639	21.69	639

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
125.00	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-10
150.00	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-2
175.00	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-4	1-7
200.00	0-8	0-9	0-9	0-10	0-11	1-1	1-3	1-5	1-9	2-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-4	0-5	0-5
100.00	0-2	0-3	0-3	0-3	0-4	0-5	0-6	0-8	0-8	0-9
125.00	0-4	0-4	0-5	0-5	0-7	0-8	0-10	1-0	1-1	1-2
150.00	0-5	0-6	0-7	0-8	0-9	1-0	1-3	1-5	1-6	1-8
175.00	0-7	0-8	0-9	0-11	1-1	1-4	1-8	1-11	2-1	2-3
200.00	0-9	0-10	1-0	1-2	1-5	1-9	2-2	2-6	2-9	3-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.315

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-8
125.00	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
150.00	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-5	1-7
175.00	0-9	0-10	1-0	1-1	1-3	1-5	1-7	1-9	1-11	2-2
200.00	1-0	1-2	1-3	1-5	1-8	1-10	2-1	2-4	2-7	2-9
225.00	1-4	1-5	1-8	1-10	2-1	2-4	2-8	2-11	3-3	3-6
250.00	1-7	1-9	2-0	2-3	2-7	2-11	3-3	3-8	4-0	4-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-9
125.00	0-5	0-6	0-7	0-8	0-10	0-11	1-0	1-1	1-2	1-2
150.00	0-8	0-9	0-10	1-0	1-2	1-3	1-5	1-7	1-8	1-9
175.00	0-11	1-0	1-2	1-4	1-7	1-9	1-11	2-1	2-3	2-4
200.00	1-2	1-4	1-7	1-9	2-0	2-3	2-6	2-9	2-11	3-1
225.00	1-6	1-8	2-0	2-3	2-7	2-11	3-2	3-6	3-9	3-11
250.00	1-10	2-1	2-5	2-9	3-2	3-7	3-11	4-4	4-7	4-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.316

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-8
175.00	1-6	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-4
200.00	1-11	2-1	2-3	2-4	2-5	2-7	2-8	2-10	2-11	3-0
225.00	2-6	2-8	2-10	2-11	3-1	3-3	3-5	3-7	3-8	3-10
250.00	3-1	3-3	3-5	3-8	3-10	4-0	4-2	4-5	4-7	4-9
275.00	3-8	3-11	4-2	4-5	4-8	4-10	5-1	5-4	5-6	5-9
300.00	4-5	4-8	5-0	5-3	5-6	5-10	6-1	6-4	6-7	6-10
325.00	5-2	5-6	5-10	6-2	6-6	6-10	7-1	7-5	7-8	8-0
350.00	6-0	6-5	6-9	7-2	7-6	7-11	8-3	8-7	8-11	9-3
375.00	6-10	7-4	7-9	8-3	8-8	9-1	9-6	9-10	10-3	10-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-9
175.00	1-7	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
200.00	2-1	2-3	2-4	2-6	2-7	2-9	2-10	3-0	3-1	3-2
225.00	2-8	2-10	3-0	3-2	3-4	3-6	3-7	3-9	3-11	4-0
250.00	3-3	3-6	3-8	3-11	4-1	4-3	4-6	4-8	4-10	4-11
275.00	4-0	4-3	4-6	4-9	5-0	5-2	5-5	5-7	5-10	6-0
300.00	4-9	5-0	5-4	5-7	5-11	6-2	6-5	6-8	6-11	7-1
325.00	5-7	5-11	6-3	6-7	6-11	7-3	7-7	7-10	8-2	8-4
350.00	6-5	6-10	7-3	7-8	8-0	8-5	8-9	9-1	9-5	9-8
375.00	7-5	7-11	8-4	8-9	9-3	9-8	10-1	10-5	10-10	11-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-6	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-1	3-1
225.00	3-2	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-10	3-11
250.00	4-0	4-1	4-2	4-3	4-5	4-6	4-7	4-8	4-9	4-10
275.00	4-10	4-11	5-1	5-2	5-4	5-5	5-7	5-8	5-9	5-11
300.00	5-8	5-10	6-0	6-2	6-4	6-6	6-7	6-9	6-11	7-0
325.00	6-8	6-11	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-3
350.00	7-9	8-0	8-2	8-5	8-7	8-10	9-0	9-2	9-4	9-7
375.00	8-11	9-2	9-5	9-8	9-10	10-1	10-4	10-7	10-9	11-0
400.00	10-2	10-5	10-8	11-0	11-3	11-6	11-9	12-0	12-3	12-6
425.00	11-5	11-9	12-1	12-5	12-8	13-0	13-3	13-7	13-10	14-1
450.00	12-10	13-2	13-7	13-11	14-3	14-7	14-10	15-2	15-6	15-10
475.00	14-4	14-8	15-1	15-6	15-10	16-3	16-7	16-11	17-3	17-7
500.00	15-10	16-4	16-9	17-2	17-7	18-0	18-4	18-9	19-2	19-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-7	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-2
225.00	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-0
250.00	4-1	4-3	4-4	4-5	4-6	4-8	4-9	4-10	4-11	5-0
275.00	5-0	5-1	5-3	5-4	5-6	5-7	5-9	5-10	6-0	6-0
300.00	5-11	6-1	6-3	6-4	6-6	6-8	6-10	6-11	7-1	7-2
325.00	6-11	7-1	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-5
350.00	8-0	8-3	8-6	8-8	8-11	9-1	9-3	9-6	9-8	9-9
375.00	9-3	9-6	9-9	10-0	10-2	10-5	10-8	10-11	11-1	11-3
400.00	10-6	10-9	11-1	11-4	11-7	11-10	12-1	12-5	12-7	12-9
425.00	11-10	12-2	12-6	12-10	13-1	13-5	13-8	14-0	14-3	14-5
450.00	13-3	13-8	14-0	14-4	14-8	15-0	15-4	15-8	16-0	16-2
475.00	14-10	15-3	15-7	16-0	16-4	16-9	17-1	17-6	17-10	18-0
500.00	16-5	16-10	17-4	17-9	18-2	18-7	18-11	19-4	19-9	20-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.318

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-5	4-5	4-6	4-7	4-8	4-8	4-9	4-10	4-11	4-11
275.00	5-4	5-5	5-6	5-6	5-7	5-8	5-9	5-10	5-11	6-0
300.00	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-1	7-2
325.00	7-5	7-6	7-8	7-9	7-10	7-11	8-1	8-2	8-3	8-4
350.00	8-7	8-9	8-10	9-0	9-1	9-3	9-4	9-6	9-7	9-9
375.00	9-10	10-0	10-2	10-4	10-5	10-7	10-9	10-11	11-0	11-2
400.00	11-3	11-5	11-7	11-9	11-11	12-1	12-3	12-5	12-6	12-8
425.00	12-8	12-10	13-1	13-3	13-5	13-7	13-10	14-0	14-2	14-4
450.00	14-3	14-5	14-8	14-10	15-1	15-3	15-6	15-8	15-10	16-1
475.00	15-10	16-1	16-4	16-7	16-9	17-0	17-3	17-6	17-8	17-11
500.00	17-7	17-10	18-1	18-4	18-7	18-10	19-1	19-4	19-7	19-10
525.00	19-4	19-8	19-11	20-3	20-6	20-9	21-1	21-4	21-7	21-11
550.00	21-3	21-7	21-11	22-2	22-6	22-10	23-1	23-5	23-9	24-0
575.00	23-3	23-7	23-11	24-3	24-7	24-11	25-3	25-7	25-11	26-3
600.00	25-4	25-8	26-1	26-5	26-10	27-2	27-6	27-11	28-3	28-7
625.00	27-5	27-10	28-3	28-8	29-1	29-6	29-11	30-3	30-8	31-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-6	4-6	4-7	4-8	4-9	4-10	4-10	4-11	5-0	5-0
275.00	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-0	6-1
300.00	6-5	6-6	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3
325.00	7-7	7-8	7-9	7-11	8-0	8-1	8-3	8-4	8-5	8-6
350.00	8-9	8-11	9-0	9-2	9-3	9-5	9-6	9-8	9-9	9-10
375.00	10-1	10-3	10-4	10-6	10-8	10-10	10-11	11-1	11-3	11-4
400.00	11-5	11-7	11-10	12-0	12-2	12-4	12-5	12-7	12-9	12-10
425.00	12-11	13-1	13-4	13-6	13-8	13-11	14-1	14-3	14-5	14-6
450.00	14-6	14-9	14-11	15-2	15-4	15-7	15-9	16-0	16-2	16-4
475.00	16-2	16-5	16-8	16-11	17-1	17-4	17-7	17-10	18-0	18-2
500.00	17-11	18-2	18-5	18-8	19-0	19-3	19-6	19-9	20-0	20-2
525.00	19-9	20-0	20-4	20-7	20-11	21-2	21-6	21-9	22-0	22-2
550.00	21-8	22-0	22-4	22-8	22-11	23-3	23-7	23-11	24-2	24-4
575.00	23-8	24-1	24-5	24-9	25-1	25-5	25-9	26-1	26-5	26-8
600.00	25-10	26-2	26-7	26-11	27-4	27-8	28-1	28-5	28-9	29-0
625.00	28-0	28-5	28-10	29-3	29-8	30-1	30-6	30-10	31-3	31-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.319

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	2.43	1000	2.43	1000*
0	0	0	0	0.44	2.05	269	2	275
30	0	0	0	0.44	2.33	236	2.31	239
40	0	0	0	0.44	2.42	228	2.39	231
50	0	0	0	0.44	2.5	221	2.47	224
60	0	0	0	0.44	2.58	214	2.54	217
70	0	0	0	0.44	2.64	209	2.62	211
80	0	0	0	0.44	2.69	205	2.69	205
90	0	0	0	0.44	2.73	202	2.73	202
100	0	0	0	0.44	2.78	198	2.78	198
110	0	0	0	0.44	2.83	195	2.83	195
120	0	0	0	0.44	2.87	192	2.87	192
130	0	0	0	0.44	2.92	189	2.92	189
167	0	0	0	0.44	3.08	179	3.08	179
212	0	0	0	0.44	3.27	169	3.27	169

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	9.8	1000	9.8	1000*
0	0	0	0	0.44	9.42	236	9.38	237
30	0	0	0	0.44	9.7	229	9.67	230
40	0	0	0	0.44	9.78	227	9.75	228
50	0	0	0	0.44	9.86	225	9.83	226
60	0	0	0	0.44	9.95	223	9.91	224
70	0	0	0	0.44	10.01	222	9.99	222
80	0	0	0	0.44	10.07	221	10.07	221
90	0	0	0	0.44	10.12	220	10.12	220
100	0	0	0	0.44	10.18	218	10.18	218
110	0	0	0	0.44	10.23	217	10.23	217
120	0	0	0	0.44	10.28	216	10.28	216
130	0	0	0	0.44	10.33	215	10.33	215
167	0	0	0	0.44	10.52	211	10.52	211
212	0	0	0	0.44	10.75	207	10.75	207

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.320

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	22.32	1000	22.32	1000*
0	0	0	0	0.44	21.95	230	21.9	231
30	0	0	0	0.44	22.22	228	22.19	228
40	0	0	0	0.44	22.3	227	22.27	227
50	0	0	0	0.44	22.38	226	22.35	226
60	0	0	0	0.44	22.47	225	22.43	226
70	0	0	0	0.44	22.54	225	22.51	225
80	0	0	0	0.44	22.59	224	22.59	224
90	0	0	0	0.44	22.65	224	22.65	224
100	0	0	0	0.44	22.7	223	22.7	223
110	0	0	0	0.44	22.76	223	22.76	223
120	0	0	0	0.44	22.81	222	22.81	222
130	0	0	0	0.44	22.86	222	22.86	222
167	0	0	0	0.44	23.06	220	23.06	220
212	0	0	0	0.44	23.3	218	23.3	218

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	40.4	1000	40.4	1000*
0	0	0	0	0.44	40.03	229	39.99	229
30	0	0	0	0.44	40.3	227	40.27	227
40	0	0	0	0.44	40.39	227	40.35	227
50	0	0	0	0.44	40.47	226	40.43	227
60	0	0	0	0.44	40.55	226	40.52	226
70	0	0	0	0.44	40.62	226	40.6	226
80	0	0	0	0.44	40.68	225	40.68	225
90	0	0	0	0.44	40.73	225	40.73	225
100	0	0	0	0.44	40.79	225	40.79	225
110	0	0	0	0.44	40.84	224	40.84	224
120	0	0	0	0.44	40.9	224	40.9	224
130	0	0	0	0.44	40.95	224	40.95	224
167	0	0	0	0.44	41.15	223	41.15	223
212	0	0	0	0.44	41.4	222	41.4	222

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.321

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	64.73	1000	64.73	1000*
0	0	0	0	0.44	64.36	228	64.32	228
30	0	0	0	0.44	64.63	227	64.6	227
40	0	0	0	0.44	64.72	227	64.68	227
50	0	0	0	0.44	64.8	227	64.76	227
60	0	0	0	0.44	64.88	226	64.84	226
70	0	0	0	0.44	64.95	226	64.92	226
80	0	0	0	0.44	65.01	226	65	226
90	0	0	0	0.44	65.06	226	65.06	226
100	0	0	0	0.44	65.12	226	65.12	226
110	0	0	0	0.44	65.17	225	65.17	225
120	0	0	0	0.44	65.23	225	65.23	225
130	0	0	0	0.44	65.28	225	65.28	225
167	0	0	0	0.44	65.48	224	65.48	224
212	0	0	0	0.44	65.73	224	65.73	224

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.322

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7	1-7
100.00	2-3	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-9	2-10
125.00	3-6	3-7	3-9	3-10	4-0	4-1	4-2	4-3	4-4	4-5
150.00	5-0	5-2	5-4	5-7	5-9	5-11	6-1	6-2	6-3	6-4
175.00	6-10	7-1	7-4	7-7	7-10	8-0	8-3	8-5	8-6	8-8
200.00	8-11	9-3	9-7	9-11	10-2	10-6	10-9	11-0	11-2	11-4

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7	1-7
100.00	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9	2-9	2-10
125.00	3-6	3-8	3-9	3-11	4-0	4-1	4-2	4-3	4-4	4-5
150.00	5-1	5-3	5-5	5-8	5-10	5-11	6-1	6-2	6-3	6-4
175.00	6-11	7-2	7-5	7-8	7-11	8-1	8-3	8-5	8-6	8-8
200.00	9-0	9-4	9-8	10-0	10-4	10-7	10-9	11-0	11-2	11-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.323

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-5	2-5	2-5	2-5	2-6	2-6	2-6	2-6	2-6	2-7
125.00	3-9	3-9	3-10	3-10	3-10	3-11	3-11	3-11	4-0	4-0
150.00	5-5	5-5	5-6	5-6	5-7	5-7	5-8	5-8	5-9	5-9
175.00	7-4	7-5	7-6	7-6	7-7	7-8	7-8	7-9	7-9	7-10
200.00	9-7	9-8	9-9	9-10	9-11	10-0	10-1	10-1	10-2	10-3
225.00	12-2	12-3	12-4	12-5	12-7	12-8	12-9	12-10	12-11	12-11
250.00	15-0	15-2	15-3	15-5	15-6	15-8	15-9	15-10	15-11	16-0

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-5	2-5	2-5	2-6	2-6	2-6	2-6	2-6	2-6	2-7
125.00	3-9	3-9	3-10	3-10	3-11	3-11	3-11	3-11	4-0	4-0
150.00	5-5	5-5	5-6	5-6	5-7	5-8	5-8	5-8	5-9	5-9
175.00	7-4	7-5	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-10
200.00	9-7	9-8	9-9	9-10	9-11	10-0	10-1	10-1	10-2	10-3
225.00	12-2	12-3	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-11
250.00	15-1	15-2	15-4	15-5	15-7	15-8	15-9	15-10	15-11	16-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.324

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-6	5-6	5-6	5-7	5-7	5-7	5-7	5-8	5-8	5-8
175.00	7-6	7-6	7-7	7-7	7-7	7-7	7-8	7-8	7-8	7-8
200.00	9-9	9-10	9-10	9-11	9-11	10-0	10-0	10-0	10-1	10-1
225.00	12-5	12-5	12-6	12-6	12-7	12-7	12-8	12-8	12-9	12-9
250.00	15-4	15-5	15-5	15-6	15-7	15-7	15-8	15-8	15-9	15-9
275.00	18-7	18-7	18-8	18-9	18-10	18-11	19-0	19-0	19-1	19-1
300.00	22-1	22-2	22-3	22-4	22-5	22-6	22-7	22-8	22-8	22-9
325.00	26-0	26-1	26-2	26-3	26-4	26-5	26-7	26-7	26-8	26-9
350.00	30-2	30-3	30-5	30-6	30-7	30-9	30-10	30-11	31-0	31-1
375.00	34-8	34-10	34-11	35-1	35-2	35-4	35-5	35-6	35-7	35-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-6	5-6	5-7	5-7	5-7	5-7	5-7	5-8	5-8	5-8
175.00	7-6	7-6	7-7	7-7	7-7	7-8	7-8	7-8	7-8	7-8
200.00	9-10	9-10	9-10	9-11	9-11	10-0	10-0	10-0	10-1	10-1
225.00	12-5	12-6	12-6	12-7	12-7	12-8	12-8	12-8	12-9	12-9
250.00	15-4	15-5	15-5	15-6	15-7	15-7	15-8	15-8	15-9	15-9
275.00	18-7	18-8	18-9	18-9	18-10	18-11	19-0	19-0	19-1	19-1
300.00	22-2	22-3	22-4	22-5	22-6	22-6	22-7	22-8	22-8	22-9
325.00	26-0	26-1	26-2	26-4	26-5	26-6	26-7	26-7	26-8	26-9
350.00	30-2	30-4	30-5	30-7	30-8	30-9	30-10	30-11	31-0	31-1
375.00	34-9	34-10	35-0	35-1	35-3	35-4	35-5	35-6	35-7	35-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.325

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-11	10-0	10-0	10-0	10-0	10-1	10-1	10-1	10-1	10-1
225.00	12-7	12-8	12-8	12-8	12-8	12-9	12-9	12-9	12-9	12-10
250.00	15-7	15-7	15-8	15-8	15-8	15-9	15-9	15-9	15-10	15-10
275.00	18-10	18-11	18-11	19-0	19-0	19-1	19-1	19-1	19-2	19-2
300.00	22-6	22-6	22-7	22-7	22-8	22-8	22-9	22-9	22-10	22-10
325.00	26-5	26-6	26-6	26-7	26-8	26-8	26-9	26-9	26-10	26-10
350.00	30-8	30-9	30-10	30-10	30-11	31-0	31-1	31-1	31-2	31-2
375.00	35-3	35-4	35-5	35-6	35-7	35-7	35-8	35-9	35-9	35-10
400.00	40-2	40-3	40-4	40-5	40-6	40-7	40-8	40-9	40-9	40-10
425.00	45-5	45-7	45-8	45-9	45-10	45-11	46-0	46-1	46-2	46-2
450.00	51-0	51-2	51-3	51-4	51-5	51-7	51-8	51-9	51-10	51-11
475.00	57-0	57-1	57-3	57-4	57-5	57-7	57-8	57-9	57-10	57-11
500.00	63-3	63-5	63-6	63-8	63-9	63-11	64-0	64-2	64-3	64-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-11	10-0	10-0	10-0	10-0	10-1	10-1	10-1	10-1	10-1
225.00	12-7	12-8	12-8	12-8	12-9	12-9	12-9	12-9	12-9	12-10
250.00	15-7	15-7	15-8	15-8	15-9	15-9	15-9	15-9	15-10	15-10
275.00	18-11	18-11	18-11	19-0	19-0	19-1	19-1	19-1	19-2	19-2
300.00	22-6	22-6	22-7	22-8	22-8	22-9	22-9	22-9	22-10	22-10
325.00	26-5	26-6	26-6	26-7	26-8	26-8	26-9	26-9	26-10	26-10
350.00	30-8	30-9	30-10	30-11	30-11	31-0	31-1	31-1	31-2	31-2
375.00	35-4	35-4	35-5	35-6	35-7	35-8	35-8	35-9	35-9	35-10
400.00	40-3	40-4	40-5	40-6	40-7	40-7	40-8	40-9	40-9	40-10
425.00	45-6	45-7	45-8	45-9	45-10	45-11	46-0	46-1	46-2	46-2
450.00	51-1	51-2	51-4	51-5	51-6	51-7	51-8	51-9	51-10	51-11
475.00	57-0	57-2	57-3	57-5	57-6	57-7	57-8	57-9	57-10	57-11
500.00	63-4	63-5	63-7	63-8	63-10	63-11	64-0	64-2	64-3	64-4

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SHEET 326 OF 359

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.326

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	15-10	15-11	15-11	15-11	15-11	16-0	16-0	16-0	16-0	16-0
275.00	19-3	19-3	19-3	19-4	19-4	19-4	19-4	19-5	19-5	19-5
300.00	22-11	22-11	23-0	23-0	23-0	23-1	23-1	23-1	23-1	23-2
325.00	26-11	27-0	27-0	27-0	27-1	27-1	27-2	27-2	27-2	27-2
350.00	31-3	31-4	31-4	31-5	31-5	31-6	31-6	31-6	31-7	31-7
375.00	35-11	36-0	36-1	36-1	36-2	36-2	36-3	36-3	36-3	36-4
400.00	41-0	41-0	41-1	41-2	41-2	41-3	41-3	41-4	41-4	41-5
425.00	46-4	46-5	46-6	46-6	46-7	46-8	46-8	46-9	46-9	46-10
450.00	52-1	52-1	52-2	52-3	52-4	52-4	52-5	52-6	52-6	52-7
475.00	58-1	58-2	58-3	58-4	58-5	58-6	58-7	58-7	58-8	58-8
500.00	64-6	64-7	64-8	64-9	64-10	64-11	65-0	65-1	65-1	65-2
525.00	71-3	71-5	71-6	71-7	71-8	71-9	71-10	71-11	71-11	72-0
550.00	78-5	78-6	78-7	78-9	78-10	78-11	79-0	79-1	79-2	79-3
575.00	85-11	86-0	86-2	86-3	86-4	86-5	86-7	86-8	86-9	86-10
600.00	93-9	93-11	94-0	94-2	94-3	94-5	94-6	94-7	94-8	94-9
625.00	102-0	102-2	102-3	102-5	102-7	102-8	102-10	102-11	103-0	103-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	15-11	15-11	15-11	15-11	16-0	16-0	16-0	16-0	16-0	16-0
275.00	19-3	19-3	19-3	19-4	19-4	19-4	19-4	19-5	19-5	19-5
300.00	22-11	22-11	23-0	23-0	23-0	23-1	23-1	23-1	23-1	23-2
325.00	26-11	27-0	27-0	27-0	27-1	27-1	27-2	27-2	27-2	27-2
350.00	31-3	31-4	31-4	31-5	31-5	31-6	31-6	31-6	31-7	31-7
375.00	36-0	36-0	36-1	36-1	36-2	36-2	36-3	36-3	36-3	36-4
400.00	41-0	41-1	41-1	41-2	41-2	41-3	41-3	41-4	41-4	41-5
425.00	46-4	46-5	46-6	46-6	46-7	46-8	46-8	46-9	46-9	46-10
450.00	52-1	52-2	52-2	52-3	52-4	52-5	52-5	52-6	52-6	52-7
475.00	58-2	58-3	58-3	58-4	58-5	58-6	58-7	58-7	58-8	58-8
500.00	64-7	64-8	64-9	64-10	64-11	64-11	65-0	65-1	65-1	65-2
525.00	71-4	71-5	71-6	71-7	71-8	71-9	71-10	71-11	71-11	72-0
550.00	78-5	78-7	78-8	78-9	78-10	78-11	79-0	79-1	79-2	79-3
575.00	85-11	86-1	86-2	86-3	86-5	86-6	86-7	86-8	86-9	86-10
600.00	93-10	93-11	94-1	94-2	94-4	94-5	94-6	94-7	94-8	94-9
625.00	102-1	102-2	102-4	102-6	102-7	102-9	102-10	102-11	103-0	103-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.327

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	1.62	1500	1.62	1500*
0	0	0	0	0.44	0.9	612	0.84	651
30	0	0	0	0.44	1.34	411	1.27	435
40	0	0	0	0.44	1.47	375	1.39	395
50	0	0	0	0.44	1.59	346	1.51	363
60	0	0	0	0.44	1.7	323	1.63	338
70	0	0	0	0.44	1.81	305	1.74	317
80	0	0	0	0.44	1.87	294	1.84	299
90	0	0	0	0.44	1.94	284	1.94	284
100	0	0	0	0.44	2	275	2	275
110	0	0	0	0.44	2.06	267	2.06	267
120	0	0	0	0.44	2.12	260	2.12	260
130	0	0	0	0.44	2.18	253	2.18	253
167	0	0	0	0.44	2.38	231	2.38	231
212	0	0	0	0.44	2.62	211	2.62	211

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	6.5	1500	6.5	1500*
0	0	0	0	0.44	5.82	379	5.73	385
30	0	0	0	0.44	6.21	355	6.14	360
40	0	0	0	0.44	6.34	348	6.27	352
50	0	0	0	0.44	6.46	342	6.39	346
60	0	0	0	0.44	6.59	335	6.51	340
70	0	0	0	0.44	6.71	330	6.62	334
80	0	0	0	0.44	6.79	325	6.74	328
90	0	0	0	0.44	6.87	322	6.85	322
100	0	0	0	0.44	6.95	318	6.95	318
110	0	0	0	0.44	7.02	315	7.02	315
120	0	0	0	0.44	7.1	312	7.1	312
130	0	0	0	0.44	7.17	308	7.17	308
167	0	0	0	0.44	7.44	298	7.44	298
212	0	0	0	0.44	7.75	286	7.75	286

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.328

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.941	14.69	1500	14.69	1500*
0	0	0	0	0.44	14.03	356	13.94	358
30	0	0	0	0.44	14.41	347	14.34	348
40	0	0	0	0.44	14.54	344	14.46	345
50	0	0	0	0.44	14.66	341	14.58	343
60	0	0	0	0.44	14.79	338	14.7	340
70	0	0	0	0.44	14.91	335	14.82	337
80	0	0	0	0.44	15	333	14.94	335
90	0	0	0	0.44	15.08	332	15.06	332
100	0	0	0	0.44	15.16	330	15.16	330
110	0	0	0	0.44	15.24	328	15.24	328
120	0	0	0	0.44	15.32	326	15.32	326
130	0	0	0	0.44	15.4	325	15.4	325
167	0	0	0	0.44	15.69	319	15.69	319
212	0	0	0	0.44	16.03	312	16.03	312

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.941	26.32	1500	26.32	1500*
0	0	0	0	0.44	25.66	349	25.57	350
30	0	0	0	0.44	26.04	344	25.97	345
40	0	0	0	0.44	26.17	342	26.09	343
50	0	0	0	0.44	26.29	341	26.21	341
60	0	0	0	0.44	26.42	339	26.33	340
70	0	0	0	0.44	26.54	337	26.45	338
80	0	0	0	0.44	26.64	336	26.57	337
90	0	0	0	0.44	26.72	335	26.69	336
100	0	0	0	0.44	26.8	334	26.8	334
110	0	0	0	0.44	26.88	333	26.88	333
120	0	0	0	0.44	26.96	332	26.96	332
130	0	0	0	0.44	27.04	331	27.04	331
167	0	0	0	0.44	27.34	328	27.34	328
212	0	0	0	0.44	27.69	324	27.69	324

* Design Condition

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SHEET 329 OF 359

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.329

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	41.55	1500	41.55	1500*
0	0	0	0	0.44	40.89	345	40.8	346
30	0	0	0	0.44	41.27	342	41.2	343
40	0	0	0	0.44	41.39	341	41.32	342
50	0	0	0	0.44	41.52	340	41.44	341
60	0	0	0	0.44	41.64	339	41.56	340
70	0	0	0	0.44	41.76	338	41.68	339
80	0	0	0	0.44	41.86	338	41.8	338
90	0	0	0	0.44	41.94	337	41.92	337
100	0	0	0	0.44	42.03	336	42.03	336
110	0	0	0	0.44	42.11	336	42.11	336
120	0	0	0	0.44	42.19	335	42.19	335
130	0	0	0	0.44	42.27	335	42.27	335
167	0	0	0	0.44	42.57	332	42.57	332
212	0	0	0	0.44	42.94	330	42.94	330

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.330

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2
100.00	1-2	1-3	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1
125.00	1-9	2-0	2-2	2-4	2-7	2-9	2-11	3-0	3-2	3-3
150.00	2-7	2-10	3-2	3-5	3-8	3-11	4-2	4-4	4-6	4-8
175.00	3-6	3-11	4-3	4-8	5-0	5-4	5-8	5-11	6-2	6-4
200.00	4-6	5-1	5-7	6-1	6-6	7-0	7-5	7-9	8-0	8-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2
100.00	1-2	1-4	1-6	1-7	1-8	1-10	1-10	1-11	2-0	2-1
125.00	1-11	2-1	2-4	2-6	2-8	2-10	2-11	3-0	3-2	3-3
150.00	2-8	3-0	3-4	3-7	3-10	4-1	4-3	4-4	4-6	4-8
175.00	3-8	4-1	4-6	4-10	5-3	5-7	5-9	5-11	6-2	6-4
200.00	4-10	5-4	5-11	6-4	6-10	7-3	7-6	7-9	8-0	8-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-6	1-7	1-7	1-7	1-8	1-8	1-9	1-9	1-9
125.00	2-4	2-5	2-5	2-6	2-6	2-7	2-8	2-8	2-9	2-9
150.00	3-5	3-5	3-6	3-7	3-8	3-9	3-9	3-10	3-11	3-11
175.00	4-7	4-8	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-4
200.00	6-0	6-2	6-3	6-5	6-6	6-7	6-9	6-10	6-11	7-0
225.00	7-7	7-9	7-11	8-1	8-3	8-5	8-6	8-8	8-10	8-11
250.00	9-5	9-7	9-10	10-0	10-2	10-4	10-6	10-9	10-10	11-0

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-7	1-7	1-7	1-8	1-8	1-8	1-9	1-9	1-9
125.00	2-5	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-9	2-9
150.00	3-5	3-6	3-7	3-8	3-8	3-9	3-10	3-10	3-11	3-11
175.00	4-8	4-9	4-10	4-11	5-0	5-2	5-2	5-3	5-4	5-4
200.00	6-1	6-3	6-4	6-6	6-7	6-8	6-10	6-10	6-11	7-0
225.00	7-8	7-10	8-0	8-2	8-4	8-6	8-7	8-8	8-10	8-11
250.00	9-6	9-9	9-11	10-1	10-4	10-6	10-7	10-9	10-10	11-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-7	3-7	3-7	3-8	3-8	3-8	3-9	3-9	3-9	3-10
175.00	4-10	4-10	4-11	4-11	5-0	5-0	5-1	5-1	5-2	5-2
200.00	6-4	6-4	6-5	6-6	6-6	6-7	6-8	6-8	6-9	6-9
225.00	8-0	8-1	8-1	8-2	8-3	8-4	8-5	8-6	8-6	8-7
250.00	9-10	9-11	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7
275.00	11-11	12-1	12-2	12-3	12-4	12-5	12-7	12-8	12-9	12-10
300.00	14-3	14-4	14-6	14-7	14-8	14-10	14-11	15-1	15-2	15-3
325.00	16-8	16-10	17-0	17-2	17-3	17-5	17-7	17-8	17-10	17-11
350.00	19-4	19-6	19-8	19-10	20-0	20-2	20-4	20-6	20-8	20-9
375.00	22-3	22-5	22-8	22-10	23-0	23-2	23-5	23-7	23-9	23-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-7	3-7	3-8	3-8	3-8	3-9	3-9	3-9	3-9	3-10
175.00	4-10	4-11	4-11	5-0	5-0	5-1	5-1	5-1	5-2	5-2
200.00	6-4	6-5	6-5	6-6	6-7	6-7	6-8	6-8	6-9	6-9
225.00	8-0	8-1	8-2	8-3	8-4	8-4	8-5	8-6	8-6	8-7
250.00	9-11	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-6	10-7
275.00	12-0	12-1	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10
300.00	14-3	14-5	14-6	14-8	14-9	14-11	15-0	15-1	15-2	15-3
325.00	16-9	16-11	17-1	17-3	17-4	17-6	17-7	17-9	17-10	17-11
350.00	19-6	19-8	19-10	20-0	20-2	20-4	20-5	20-7	20-8	20-9
375.00	22-4	22-7	22-9	22-11	23-2	23-4	23-6	23-7	23-9	23-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.333

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-5	6-6	6-6	6-6	6-7	6-7	6-7	6-8	6-8	6-8
225.00	8-2	8-2	8-3	8-3	8-4	8-4	8-4	8-5	8-5	8-6
250.00	10-1	10-1	10-2	10-2	10-3	10-4	10-4	10-5	10-5	10-6
275.00	12-2	12-3	12-4	12-4	12-5	12-6	12-6	12-7	12-8	12-8
300.00	14-6	14-7	14-8	14-9	14-9	14-10	14-11	15-0	15-0	15-1
325.00	17-0	17-1	17-2	17-3	17-4	17-5	17-6	17-7	17-8	17-9
350.00	19-9	19-10	19-11	20-1	20-2	20-3	20-4	20-5	20-6	20-7
375.00	22-8	22-10	22-11	23-0	23-2	23-3	23-4	23-5	23-6	23-7
400.00	25-10	26-0	26-1	26-3	26-4	26-5	26-7	26-8	26-10	26-11
425.00	29-2	29-4	29-6	29-7	29-9	29-11	30-0	30-2	30-3	30-4
450.00	32-9	32-11	33-1	33-3	33-5	33-6	33-8	33-10	34-0	34-1
475.00	36-6	36-8	36-11	37-1	37-3	37-5	37-7	37-9	37-11	38-0
500.00	40-6	40-8	40-11	41-1	41-3	41-6	41-8	41-10	42-0	42-2

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-5	6-6	6-6	6-7	6-7	6-7	6-8	6-8	6-8	6-8
225.00	8-2	8-3	8-3	8-3	8-4	8-4	8-5	8-5	8-5	8-6
250.00	10-1	10-2	10-2	10-3	10-3	10-4	10-4	10-5	10-5	10-6
275.00	12-3	12-3	12-4	12-5	12-5	12-6	12-7	12-7	12-8	12-8
300.00	14-7	14-7	14-8	14-9	14-10	14-11	14-11	15-0	15-0	15-1
325.00	17-1	17-2	17-3	17-4	17-5	17-6	17-7	17-7	17-8	17-9
350.00	19-10	19-11	20-0	20-1	20-2	20-3	20-4	20-5	20-6	20-7
375.00	22-9	22-10	23-0	23-1	23-2	23-4	23-5	23-6	23-6	23-7
400.00	25-11	26-1	26-2	26-3	26-5	26-6	26-8	26-9	26-10	26-11
425.00	29-3	29-5	29-7	29-8	29-10	30-0	30-1	30-2	30-3	30-4
450.00	32-10	33-0	33-2	33-4	33-6	33-8	33-9	33-10	34-0	34-1
475.00	36-8	36-10	37-0	37-2	37-4	37-6	37-8	37-9	37-11	38-0
500.00	40-7	40-10	41-0	41-3	41-5	41-7	41-9	41-11	42-0	42-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.334

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-2	10-3	10-3	10-3	10-4	10-4	10-5	10-5	10-5	10-5
275.00	12-4	12-5	12-5	12-5	12-6	12-6	12-7	12-7	12-8	12-8
300.00	14-8	14-9	14-9	14-10	14-10	14-11	15-0	15-0	15-0	15-1
325.00	17-3	17-4	17-4	17-5	17-6	17-6	17-7	17-7	17-8	17-8
350.00	20-0	20-1	20-2	20-3	20-3	20-4	20-5	20-5	20-6	20-6
375.00	23-0	23-1	23-2	23-3	23-3	23-4	23-5	23-6	23-7	23-7
400.00	26-2	26-3	26-4	26-5	26-6	26-7	26-8	26-9	26-10	26-10
425.00	29-7	29-8	29-9	29-10	29-11	30-0	30-1	30-3	30-3	30-4
450.00	33-3	33-4	33-5	33-6	33-7	33-8	33-10	33-11	34-0	34-1
475.00	37-0	37-2	37-3	37-4	37-6	37-7	37-8	37-10	37-11	38-0
500.00	41-1	41-2	41-4	41-5	41-7	41-8	41-10	41-11	42-0	42-1
525.00	45-4	45-6	45-7	45-9	45-10	46-0	46-2	46-3	46-5	46-6
550.00	49-10	49-11	50-1	50-3	50-5	50-6	50-8	50-10	50-11	51-1
575.00	54-6	54-8	54-10	55-0	55-1	55-3	55-5	55-7	55-9	55-10
600.00	59-5	59-7	59-9	59-11	60-1	60-3	60-5	60-7	60-9	60-11
625.00	64-6	64-8	64-11	65-1	65-3	65-5	65-8	65-10	66-0	66-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-3	10-3	10-3	10-4	10-4	10-4	10-5	10-5	10-5	10-5
275.00	12-4	12-5	12-5	12-6	12-6	12-7	12-7	12-7	12-8	12-8
300.00	14-9	14-9	14-10	14-10	14-11	14-11	15-0	15-0	15-0	15-1
325.00	17-4	17-4	17-5	17-5	17-6	17-7	17-7	17-8	17-8	17-8
350.00	20-1	20-2	20-2	20-3	20-4	20-4	20-5	20-5	20-6	20-6
375.00	23-1	23-1	23-2	23-3	23-4	23-5	23-5	23-6	23-7	23-7
400.00	26-3	26-4	26-5	26-6	26-7	26-8	26-8	26-9	26-10	26-10
425.00	29-8	29-9	29-10	29-11	30-0	30-1	30-2	30-3	30-3	30-4
450.00	33-3	33-4	33-6	33-7	33-8	33-9	33-10	33-11	34-0	34-1
475.00	37-1	37-3	37-4	37-5	37-7	37-8	37-9	37-10	37-11	38-0
500.00	41-2	41-3	41-5	41-6	41-8	41-9	41-10	41-11	42-0	42-1
525.00	45-5	45-6	45-8	45-10	45-11	46-1	46-2	46-3	46-5	46-6
550.00	49-10	50-0	50-2	50-4	50-6	50-8	50-9	50-10	50-11	51-1
575.00	54-7	54-9	54-11	55-1	55-3	55-5	55-6	55-8	55-9	55-10
600.00	59-6	59-8	59-10	60-0	60-2	60-5	60-6	60-8	60-9	60-11
625.00	64-7	64-10	65-0	65-2	65-5	65-7	65-9	65-11	66-0	66-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.335

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	1.21	2000	1.21	2000*
0	0	0	0	0.44	0.36	1526	0.35	1579
30	0	0	0	0.44	0.7	780	0.61	901
40	0	0	0	0.44	0.86	639	0.74	740
50	0	0	0	0.44	1.02	541	0.89	620
60	0	0	0	0.44	1.17	472	1.03	533
70	0	0	0	0.44	1.31	422	1.17	469
80	0	0	0	0.44	1.4	392	1.31	421
90	0	0	0	0.44	1.48	373	1.43	384
100	0	0	0	0.44	1.55	355	1.55	355
110	0	0	0	0.44	1.62	339	1.62	339
120	0	0	0	0.44	1.69	326	1.69	326
130	0	0	0	0.44	1.76	313	1.76	313
167	0	0	0	0.44	2	276	2	276
212	0	0	0	0.44	2.26	244	2.26	244

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	4.86	2000	4.86	2000*
0	0	0	0	0.44	3.74	588	3.61	610
30	0	0	0	0.44	4.3	512	4.16	530
40	0	0	0	0.44	4.48	492	4.33	509
50	0	0	0	0.44	4.65	475	4.5	490
60	0	0	0	0.44	4.81	459	4.66	473
70	0	0	0	0.44	4.97	444	4.82	458
80	0	0	0	0.44	5.11	432	4.97	444
90	0	0	0	0.44	5.21	424	5.12	431
100	0	0	0	0.44	5.3	416	5.27	419
110	0	0	0	0.44	5.4	409	5.4	409
120	0	0	0	0.44	5.49	402	5.49	402
130	0	0	0	0.44	5.58	395	5.58	395
167	0	0	0	0.44	5.91	374	5.91	374
212	0	0	0	0.44	6.28	351	6.28	351

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.336

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	10.97	2000	10.97	2000*
0	0	0	0	0.44	9.89	503	9.76	509
30	0	0	0	0.44	10.42	477	10.28	484
40	0	0	0	0.44	10.59	470	10.44	476
50	0	0	0	0.44	10.75	463	10.61	469
60	0	0	0	0.44	10.92	456	10.77	462
70	0	0	0	0.44	11.08	449	10.93	455
80	0	0	0	0.44	11.24	443	11.09	449
90	0	0	0	0.44	11.34	439	11.24	443
100	0	0	0	0.44	11.45	435	11.39	437
110	0	0	0	0.44	11.55	431	11.55	431
120	0	0	0	0.44	11.65	427	11.65	427
130	0	0	0	0.44	11.75	424	11.75	424
167	0	0	0	0.44	12.12	411	12.12	411
212	0	0	0	0.44	12.55	397	12.55	397

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	19.59	2000	19.59	2000*
0	0	0	0	0.44	18.52	479	18.4	482
30	0	0	0	0.44	19.04	466	18.9	470
40	0	0	0	0.44	19.2	462	19.06	466
50	0	0	0	0.44	19.37	459	19.22	462
60	0	0	0	0.44	19.54	455	19.38	458
70	0	0	0	0.44	19.7	451	19.54	455
80	0	0	0	0.44	19.86	447	19.7	451
90	0	0	0	0.44	19.97	445	19.86	447
100	0	0	0	0.44	20.08	443	20.02	444
110	0	0	0	0.44	20.18	440	20.18	441
120	0	0	0	0.44	20.29	438	20.29	438
130	0	0	0	0.44	20.4	436	20.4	436
167	0	0	0	0.44	20.78	428	20.78	428
212	0	0	0	0.44	21.24	419	21.24	419

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.337

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	30.78	2000	30.78	2000*
0	0	0	0	0.44	29.72	469	29.59	471
30	0	0	0	0.44	30.23	462	30.09	464
40	0	0	0	0.44	30.39	459	30.25	461
50	0	0	0	0.44	30.56	457	30.41	459
60	0	0	0	0.44	30.73	454	30.57	456
70	0	0	0	0.44	30.89	452	30.73	454
80	0	0	0	0.44	31.05	450	30.89	452
90	0	0	0	0.44	31.17	448	31.05	450
100	0	0	0	0.44	31.27	447	31.21	447
110	0	0	0	0.44	31.38	445	31.37	445
120	0	0	0	0.44	31.49	444	31.49	444
130	0	0	0	0.44	31.6	442	31.6	442
167	0	0	0	0.44	31.99	437	31.99	437
212	0	0	0	0.44	32.46	431	32.46	431

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.338

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11
100.00	0-6	0-7	0-9	0-11	1-0	1-2	1-4	1-5	1-7	1-7
125.00	0-9	0-11	1-2	1-5	1-7	1-10	2-1	2-3	2-5	2-6
150.00	1-1	1-4	1-8	2-0	2-4	2-8	2-11	3-3	3-6	3-8
175.00	1-6	1-10	2-3	2-9	3-2	3-7	4-0	4-5	4-9	5-0
200.00	2-0	2-5	3-0	3-7	4-2	4-8	5-3	5-9	6-3	6-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-9	0-10	0-10	0-11
100.00	0-7	0-8	0-10	1-0	1-2	1-4	1-5	1-6	1-7	1-7
125.00	0-11	1-1	1-4	1-7	1-10	2-0	2-2	2-4	2-5	2-6
150.00	1-3	1-7	1-11	2-3	2-7	2-11	3-2	3-4	3-6	3-8
175.00	1-9	2-2	2-8	3-1	3-7	4-0	4-4	4-6	4-9	5-0
200.00	2-3	2-10	3-5	4-1	4-8	5-3	5-7	5-11	6-3	6-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.339

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4
125.00	1-7	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-1	2-1
150.00	2-3	2-4	2-5	2-6	2-7	2-9	2-10	2-11	3-0	3-0
175.00	3-1	3-2	3-4	3-5	3-7	3-8	3-10	3-11	4-0	4-2
200.00	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-1	5-3	5-5
225.00	5-1	5-3	5-6	5-8	5-11	6-1	6-4	6-6	6-8	6-10
250.00	6-3	6-6	6-9	7-0	7-3	7-6	7-9	8-0	8-3	8-5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4
125.00	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-0	2-1	2-1
150.00	2-4	2-5	2-6	2-7	2-8	2-10	2-10	2-11	3-0	3-0
175.00	3-2	3-4	3-5	3-7	3-8	3-10	3-11	4-0	4-1	4-2
200.00	4-1	4-4	4-6	4-8	4-10	5-0	5-1	5-2	5-4	5-5
225.00	5-3	5-5	5-8	5-11	6-1	6-3	6-6	6-7	6-9	6-10
250.00	6-5	6-9	7-0	7-3	7-6	7-9	8-0	8-2	8-3	8-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.340

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-11
175.00	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10	3-10	3-11
200.00	4-6	4-7	4-8	4-9	4-9	4-10	4-11	5-0	5-1	5-2
225.00	5-8	5-9	5-10	6-0	6-1	6-2	6-3	6-4	6-5	6-6
250.00	7-0	7-2	7-3	7-4	7-6	7-7	7-8	7-10	7-11	8-0
275.00	8-6	8-8	8-9	8-11	9-1	9-2	9-4	9-5	9-7	9-8
300.00	10-1	10-3	10-5	10-7	10-9	10-11	11-1	11-3	11-5	11-7
325.00	11-10	12-1	12-3	12-5	12-8	12-10	13-0	13-2	13-5	13-7
350.00	13-9	14-0	14-3	14-5	14-8	14-11	15-1	15-4	15-6	15-9
375.00	15-10	16-1	16-4	16-7	16-10	17-1	17-4	17-7	17-10	18-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-7	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-10	2-11
175.00	3-6	3-6	3-7	3-8	3-9	3-9	3-10	3-10	3-11	3-11
200.00	4-7	4-8	4-8	4-9	4-10	4-11	5-0	5-0	5-1	5-2
225.00	5-9	5-10	5-11	6-1	6-2	6-3	6-4	6-5	6-5	6-6
250.00	7-1	7-3	7-4	7-6	7-7	7-8	7-10	7-10	7-11	8-0
275.00	8-7	8-9	8-11	9-0	9-2	9-4	9-5	9-6	9-7	9-8
300.00	10-3	10-5	10-7	10-9	10-11	11-1	11-3	11-4	11-5	11-7
325.00	12-0	12-3	12-5	12-7	12-10	13-0	13-2	13-4	13-5	13-7
350.00	13-11	14-2	14-5	14-8	14-10	15-1	15-4	15-5	15-7	15-9
375.00	16-0	16-3	16-7	16-10	17-1	17-4	17-7	17-9	17-11	18-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-8	4-9	4-9	4-10	4-10	4-10	4-11	4-11	5-0	5-0
225.00	5-11	6-0	6-0	6-1	6-1	6-2	6-3	6-3	6-4	6-4
250.00	7-4	7-4	7-5	7-6	7-7	7-7	7-8	7-9	7-10	7-10
275.00	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-4	9-5	9-6
300.00	10-6	10-7	10-8	10-10	10-11	11-0	11-1	11-2	11-3	11-4
325.00	12-4	12-6	12-7	12-8	12-9	12-11	13-0	13-1	13-2	13-4
350.00	14-4	14-5	14-7	14-8	14-10	14-11	15-1	15-2	15-4	15-5
375.00	16-5	16-7	16-9	16-11	17-0	17-2	17-4	17-5	17-7	17-9
400.00	18-9	18-11	19-1	19-3	19-5	19-7	19-8	19-10	20-0	20-2
425.00	21-2	21-4	21-6	21-9	21-11	22-1	22-3	22-5	22-7	22-9
450.00	23-9	23-11	24-2	24-4	24-7	24-9	25-0	25-2	25-4	25-7
475.00	26-5	26-8	26-11	27-2	27-4	27-7	27-10	28-1	28-3	28-6
500.00	29-4	29-7	29-10	30-1	30-4	30-7	30-10	31-1	31-4	31-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-8	4-9	4-9	4-10	4-10	4-11	4-11	5-0	5-0	5-0
225.00	5-11	6-0	6-1	6-1	6-2	6-3	6-3	6-4	6-4	6-4
250.00	7-4	7-5	7-6	7-7	7-7	7-8	7-9	7-9	7-10	7-10
275.00	8-11	9-0	9-1	9-2	9-3	9-4	9-4	9-5	9-6	9-6
300.00	10-7	10-8	10-9	10-11	11-0	11-1	11-2	11-3	11-3	11-4
325.00	12-5	12-7	12-8	12-9	12-11	13-0	13-1	13-2	13-3	13-4
350.00	14-5	14-7	14-8	14-10	14-11	15-1	15-2	15-3	15-4	15-5
375.00	16-7	16-9	16-10	17-0	17-2	17-4	17-5	17-7	17-8	17-9
400.00	18-10	19-0	19-2	19-4	19-6	19-8	19-10	20-0	20-1	20-2
425.00	21-4	21-6	21-8	21-11	22-1	22-3	22-5	22-7	22-8	22-10
450.00	23-11	24-1	24-4	24-6	24-9	24-11	25-2	25-4	25-5	25-7
475.00	26-8	26-11	27-1	27-4	27-7	27-10	28-1	28-2	28-4	28-6
500.00	29-6	29-10	30-1	30-4	30-7	30-10	31-1	31-3	31-5	31-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.342

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-5	7-6	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-10
275.00	9-0	9-1	9-1	9-2	9-3	9-3	9-4	9-4	9-5	9-5
300.00	10-9	10-10	10-10	10-11	11-0	11-0	11-1	11-2	11-2	11-3
325.00	12-7	12-8	12-9	12-10	12-11	12-11	13-0	13-1	13-2	13-3
350.00	14-8	14-8	14-9	14-10	14-11	15-0	15-1	15-2	15-3	15-4
375.00	16-10	16-11	17-0	17-1	17-2	17-3	17-4	17-5	17-6	17-7
400.00	19-1	19-3	19-4	19-5	19-6	19-8	19-9	19-10	19-11	20-0
425.00	21-7	21-9	21-10	21-11	22-1	22-2	22-3	22-5	22-6	22-8
450.00	24-3	24-4	24-6	24-7	24-9	24-10	25-0	25-2	25-3	25-5
475.00	27-0	27-2	27-3	27-5	27-7	27-9	27-10	28-0	28-2	28-4
500.00	29-11	30-1	30-3	30-5	30-7	30-9	30-11	31-1	31-3	31-4
525.00	33-0	33-2	33-4	33-7	33-9	33-11	34-1	34-3	34-5	34-7
550.00	36-3	36-5	36-8	36-10	37-0	37-3	37-5	37-7	37-10	38-0
575.00	39-8	39-10	40-1	40-3	40-6	40-9	40-11	41-2	41-4	41-7
600.00	43-2	43-5	43-8	43-11	44-1	44-4	44-7	44-10	45-1	45-3
625.00	46-11	47-2	47-5	47-8	47-11	48-2	48-5	48-8	48-11	49-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-6	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-9	7-10
275.00	9-1	9-1	9-2	9-3	9-3	9-4	9-4	9-5	9-5	9-5
300.00	10-9	10-10	10-11	11-0	11-0	11-1	11-2	11-2	11-3	11-3
325.00	12-8	12-9	12-10	12-10	12-11	13-0	13-1	13-2	13-2	13-3
350.00	14-8	14-9	14-10	14-11	15-0	15-1	15-2	15-3	15-3	15-4
375.00	16-10	17-0	17-1	17-2	17-3	17-4	17-5	17-6	17-7	17-7
400.00	19-2	19-4	19-5	19-6	19-8	19-9	19-10	19-11	20-0	20-1
425.00	21-8	21-10	21-11	22-1	22-2	22-3	22-5	22-6	22-7	22-8
450.00	24-4	24-6	24-7	24-9	24-10	25-0	25-2	25-3	25-4	25-5
475.00	27-1	27-3	27-5	27-7	27-9	27-10	28-0	28-1	28-3	28-4
500.00	30-1	30-3	30-5	30-7	30-9	30-11	31-1	31-2	31-3	31-5
525.00	33-2	33-4	33-6	33-9	33-11	34-1	34-3	34-5	34-6	34-7
550.00	36-5	36-7	36-10	37-0	37-3	37-5	37-7	37-9	37-11	38-0
575.00	39-10	40-0	40-3	40-6	40-8	40-11	41-2	41-3	41-5	41-7
600.00	43-4	43-7	43-10	44-1	44-4	44-7	44-10	45-0	45-2	45-3
625.00	47-1	47-4	47-7	47-11	48-2	48-5	48-8	48-10	49-0	49-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.343

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.941	0.97	2500	0.97	2500*
0	0	0	0	0.44	0.23	2412	0.23	2412
30	0	0	0	0.44	0.38	1439	0.34	1632
40	0	0	0	0.44	0.48	1154	0.4	1379
50	0	0	0	0.44	0.6	916	0.48	1142
60	0	0	0	0.44	0.75	735	0.59	933
70	0	0	0	0.44	0.91	608	0.72	764
80	0	0	0	0.44	1.06	519	0.86	637
90	0	0	0	0.44	1.13	485	1.01	545
100	0	0	0	0.44	1.21	455	1.15	478
110	0	0	0	0.44	1.29	427	1.29	427
120	0	0	0	0.44	1.36	404	1.36	404
130	0	0	0	0.44	1.44	383	1.44	383
167	0	0	0	0.44	1.7	324	1.7	324
212	0	0	0	0.44	1.99	277	1.99	277

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.941	3.89	2500	3.89	2500*
0	0	0	0	0.44	2.24	983	2.04	1079
30	0	0	0	0.44	2.96	743	2.72	809
40	0	0	0	0.44	3.19	691	2.94	749
50	0	0	0	0.44	3.4	648	3.15	698
60	0	0	0	0.44	3.61	611	3.36	656
70	0	0	0	0.44	3.81	579	3.56	619
80	0	0	0	0.44	4	551	3.75	587
90	0	0	0	0.44	4.13	533	3.94	560
100	0	0	0	0.44	4.24	520	4.12	535
110	0	0	0	0.44	4.35	507	4.29	514
120	0	0	0	0.44	4.46	494	4.46	494
130	0	0	0	0.44	4.56	483	4.56	483
167	0	0	0	0.44	4.94	447	4.94	447
212	0	0	0	0.44	5.37	411	5.37	411

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.344

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	8.76	2500	8.76	2500*
0	0	0	0	0.44	7.15	694	6.91	718
30	0	0	0	0.44	7.83	634	7.59	654
40	0	0	0	0.44	8.05	617	7.8	636
50	0	0	0	0.44	8.27	601	8.01	619
60	0	0	0	0.44	8.47	586	8.22	604
70	0	0	0	0.44	8.68	572	8.42	590
80	0	0	0	0.44	8.88	560	8.62	576
90	0	0	0	0.44	9.04	550	8.81	563
100	0	0	0	0.44	9.16	542	9.01	552
110	0	0	0	0.44	9.28	535	9.19	540
120	0	0	0	0.44	9.4	529	9.38	530
130	0	0	0	0.44	9.53	522	9.53	522
167	0	0	0	0.44	9.96	499	9.96	499
212	0	0	0	0.44	10.46	475	10.46	475

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	15.62	2500	15.62	2500*
0	0	0	0	0.44	14.04	630	13.81	640
30	0	0	0	0.44	14.69	602	14.45	612
40	0	0	0	0.44	14.91	594	14.66	603
50	0	0	0	0.44	15.12	585	14.87	595
60	0	0	0	0.44	15.33	577	15.07	587
70	0	0	0	0.44	15.53	570	15.27	579
80	0	0	0	0.44	15.74	563	15.47	572
90	0	0	0	0.44	15.91	557	15.67	565
100	0	0	0	0.44	16.04	552	15.87	558
110	0	0	0	0.44	16.16	548	16.06	551
120	0	0	0	0.44	16.29	544	16.25	545
130	0	0	0	0.44	16.42	539	16.42	539
167	0	0	0	0.44	16.88	525	16.88	525
212	0	0	0	0.44	17.43	509	17.43	509

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.345

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	24.49	2500	24.49	2500*
0	0	0	0	0.44	22.92	605	22.7	611
30	0	0	0	0.44	23.57	589	23.33	595
40	0	0	0	0.44	23.78	583	23.53	589
50	0	0	0	0.44	23.99	578	23.74	584
60	0	0	0	0.44	24.2	574	23.94	580
70	0	0	0	0.44	24.4	569	24.14	575
80	0	0	0	0.44	24.61	564	24.34	570
90	0	0	0	0.44	24.78	560	24.54	566
100	0	0	0	0.44	24.92	557	24.74	561
110	0	0	0	0.44	25.05	554	24.94	557
120	0	0	0	0.44	25.18	552	25.13	553
130	0	0	0	0.44	25.31	549	25.31	549
167	0	0	0	0.44	25.79	539	25.79	539
212	0	0	0	0.44	26.36	527	26.36	527

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.346

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9
100.00	0-3	0-4	0-5	0-6	0-7	0-9	0-10	1-0	1-2	1-3
125.00	0-5	0-6	0-7	0-9	0-11	1-1	1-4	1-7	1-10	2-0
150.00	0-8	0-9	0-11	1-1	1-4	1-7	1-11	2-3	2-7	2-11
175.00	0-11	1-0	1-3	1-6	1-10	2-2	2-8	3-1	3-6	3-11
200.00	1-2	1-4	1-7	1-11	2-4	2-11	3-5	4-1	4-7	5-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9
100.00	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-3	1-3
125.00	0-6	0-7	0-9	0-11	1-2	1-5	1-8	1-9	1-11	2-0
150.00	0-8	0-10	1-1	1-4	1-8	2-0	2-5	2-7	2-9	2-11
175.00	1-0	1-2	1-6	1-10	2-4	2-9	3-3	3-6	3-8	3-11
200.00	1-3	1-6	1-11	2-5	3-0	3-7	4-3	4-6	4-10	5-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.347

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1
125.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8
150.00	1-5	1-6	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5
175.00	1-11	2-1	2-3	2-5	2-7	2-9	2-10	3-0	3-2	3-3
200.00	2-6	2-9	2-11	3-2	3-4	3-7	3-9	3-11	4-1	4-3
225.00	3-2	3-5	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-5
250.00	3-11	4-3	4-7	4-11	5-3	5-7	5-10	6-2	6-5	6-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1
125.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-8
150.00	1-6	1-8	1-10	1-11	2-0	2-2	2-3	2-4	2-5	2-5
175.00	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-2	3-3	3-4
200.00	2-9	3-0	3-2	3-5	3-7	3-10	4-0	4-2	4-3	4-4
225.00	3-5	3-9	4-0	4-4	4-7	4-10	5-1	5-3	5-4	5-6
250.00	4-3	4-8	5-0	5-4	5-8	5-11	6-3	6-6	6-8	6-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.348

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-2	2-3	2-4
175.00	2-6	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-1	3-2
200.00	3-3	3-4	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1
225.00	4-2	4-3	4-5	4-6	4-7	4-9	4-10	4-11	5-1	5-2
250.00	5-1	5-3	5-5	5-7	5-8	5-10	6-0	6-1	6-3	6-5
275.00	6-2	6-5	6-7	6-9	6-11	7-1	7-3	7-5	7-7	7-9
300.00	7-4	7-7	7-10	8-0	8-3	8-5	8-7	8-10	9-0	9-2
325.00	8-8	8-11	9-2	9-5	9-8	9-11	10-1	10-4	10-7	10-10
350.00	10-0	10-4	10-7	10-11	11-2	11-6	11-9	12-0	12-3	12-6
375.00	11-6	11-10	12-2	12-6	12-10	13-2	13-6	13-9	14-1	14-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-3	2-4
175.00	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-1	3-2
200.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-1
225.00	4-3	4-5	4-6	4-8	4-9	4-11	5-0	5-1	5-2	5-3
250.00	5-3	5-5	5-7	5-9	5-11	6-0	6-2	6-3	6-4	6-5
275.00	6-5	6-7	6-9	6-11	7-1	7-3	7-5	7-7	7-8	7-10
300.00	7-7	7-10	8-1	8-3	8-6	8-8	8-11	9-0	9-2	9-3
325.00	8-11	9-2	9-5	9-8	9-11	10-2	10-5	10-7	10-9	10-11
350.00	10-4	10-8	11-0	11-3	11-6	11-10	12-1	12-4	12-6	12-8
375.00	11-11	12-3	12-7	12-11	13-3	13-7	13-11	14-2	14-4	14-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.349

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-7	3-7	3-8	3-9	3-9	3-10	3-10	3-11	4-0	4-0
225.00	4-6	4-7	4-8	4-8	4-9	4-10	4-11	4-11	5-0	5-1
250.00	5-7	5-8	5-9	5-10	5-11	6-0	6-0	6-1	6-2	6-3
275.00	6-9	6-10	6-11	7-0	7-1	7-3	7-4	7-5	7-6	7-7
300.00	8-0	8-1	8-3	8-4	8-6	8-7	8-8	8-10	8-11	9-0
325.00	9-5	9-6	9-8	9-10	9-11	10-1	10-3	10-4	10-6	10-7
350.00	10-11	11-1	11-3	11-5	11-6	11-8	11-10	12-0	12-2	12-3
375.00	12-6	12-8	12-11	13-1	13-3	13-5	13-7	13-9	13-11	14-1
400.00	14-3	14-5	14-8	14-10	15-1	15-3	15-6	15-8	15-10	16-1
425.00	16-1	16-4	16-7	16-9	17-0	17-3	17-6	17-8	17-11	18-2
450.00	18-0	18-4	18-7	18-10	19-1	19-4	19-7	19-10	20-1	20-4
475.00	20-1	20-5	20-8	21-0	21-3	21-7	21-10	22-1	22-5	22-8
500.00	22-3	22-7	22-11	23-3	23-7	23-11	24-2	24-6	24-10	25-2

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-7	3-8	3-9	3-9	3-10	3-11	3-11	4-0	4-0	4-0
225.00	4-7	4-8	4-9	4-9	4-10	4-11	5-0	5-0	5-1	5-1
250.00	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-2	6-3	6-4
275.00	6-10	6-11	7-0	7-2	7-3	7-4	7-5	7-6	7-7	7-8
300.00	8-2	8-3	8-5	8-6	8-7	8-9	8-10	8-11	9-0	9-1
325.00	9-7	9-8	9-10	10-0	10-1	10-3	10-5	10-6	10-7	10-8
350.00	11-1	11-3	11-5	11-7	11-9	11-11	12-1	12-2	12-3	12-4
375.00	12-9	12-11	13-1	13-3	13-6	13-8	13-10	14-0	14-1	14-2
400.00	14-6	14-8	14-11	15-1	15-4	15-6	15-9	15-11	16-0	16-2
425.00	16-4	16-7	16-10	17-1	17-4	17-6	17-9	18-0	18-1	18-3
450.00	18-4	18-7	18-11	19-2	19-5	19-8	19-11	20-2	20-4	20-6
475.00	20-5	20-9	21-0	21-4	21-8	21-11	22-3	22-5	22-8	22-10
500.00	22-8	23-0	23-4	23-8	24-0	24-4	24-7	24-11	25-1	25-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.350

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-9	5-10	5-10	5-11	6-0	6-0	6-1	6-1	6-2	6-3
275.00	7-0	7-1	7-1	7-2	7-3	7-3	7-4	7-5	7-6	7-6
300.00	8-4	8-5	8-5	8-6	8-7	8-8	8-9	8-10	8-11	9-0
325.00	9-9	9-10	9-11	10-0	10-1	10-2	10-3	10-4	10-5	10-6
350.00	11-4	11-5	11-6	11-7	11-9	11-10	11-11	12-0	12-1	12-2
375.00	13-0	13-1	13-3	13-4	13-5	13-7	13-8	13-9	13-11	14-0
400.00	14-9	14-11	15-1	15-2	15-4	15-5	15-7	15-8	15-10	15-11
425.00	16-8	16-10	17-0	17-2	17-3	17-5	17-7	17-9	17-10	18-0
450.00	18-9	18-11	19-1	19-3	19-5	19-7	19-8	19-10	20-0	20-2
475.00	20-10	21-1	21-3	21-5	21-7	21-9	22-0	22-2	22-4	22-6
500.00	23-1	23-4	23-6	23-9	23-11	24-2	24-4	24-7	24-9	24-11
525.00	25-6	25-9	25-11	26-2	26-5	26-8	26-10	27-1	27-3	27-6
550.00	28-0	28-3	28-6	28-9	29-0	29-3	29-6	29-9	29-11	30-2
575.00	30-7	30-11	31-2	31-5	31-8	32-0	32-3	32-6	32-9	33-0
600.00	33-4	33-8	33-11	34-3	34-6	34-10	35-1	35-5	35-8	36-0
625.00	36-2	36-6	36-10	37-2	37-6	37-9	38-1	38-5	38-9	39-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-10	5-11	5-11	6-0	6-0	6-1	6-2	6-2	6-3	6-3
275.00	7-1	7-1	7-2	7-3	7-4	7-4	7-5	7-6	7-6	7-7
300.00	8-5	8-6	8-7	8-7	8-8	8-9	8-10	8-11	8-11	9-0
325.00	9-10	9-11	10-0	10-1	10-2	10-4	10-5	10-5	10-6	10-7
350.00	11-5	11-6	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3
375.00	13-1	13-3	13-4	13-6	13-7	13-8	13-10	13-11	14-0	14-1
400.00	14-11	15-1	15-2	15-4	15-6	15-7	15-9	15-10	15-11	16-0
425.00	16-10	17-0	17-2	17-4	17-6	17-7	17-9	17-11	18-0	18-1
450.00	18-11	19-1	19-3	19-5	19-7	19-9	19-11	20-1	20-2	20-3
475.00	21-1	21-3	21-5	21-8	21-10	22-0	22-2	22-4	22-6	22-7
500.00	23-4	23-7	23-9	24-0	24-2	24-5	24-7	24-9	24-11	25-1
525.00	25-9	26-0	26-3	26-5	26-8	26-11	27-2	27-4	27-6	27-8
550.00	28-3	28-6	28-9	29-1	29-4	29-7	29-10	30-0	30-2	30-4
575.00	30-11	31-2	31-6	31-9	32-0	32-4	32-7	32-10	33-0	33-2
600.00	33-8	34-0	34-3	34-7	34-11	35-2	35-6	35-9	35-11	36-1
625.00	36-7	36-11	37-3	37-7	37-10	38-2	38-6	38-10	39-0	39-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.351

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	0.83	2923	0.81	3000*
0	0	0	0	0.44	0.18	3055	0.18	3092
30	0	0	0	0.44	0.27	2022	0.24	2322
40	0	0	0	0.44	0.32	1693	0.27	2059
50	0	0	0	0.44	0.4	1383	0.31	1795
60	0	0	0	0.44	0.5	1105	0.36	1535
70	0	0	0	0.44	0.63	877	0.43	1285
80	0	0	0	0.44	0.78	708	0.52	1056
90	0	0	0	0.44	0.87	634	0.64	860
100	0	0	0	0.44	0.94	587	0.78	708
110	0	0	0	0.44	1.01	545	0.92	595
120	0	0	0	0.44	1.08	508	1.07	514
130	0	0	0	0.44	1.16	475	1.16	476
167	0	0	0	0.44	1.44	383	1.43	384
212	0	0	0	0.44	1.75	315	1.75	315

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	3.24	3000	3.24	3000*
0	0	0	0	0.44	1.26	1747	1.14	1933
30	0	0	0	0.44	1.92	1144	1.64	1342
40	0	0	0	0.44	2.17	1013	1.85	1189
50	0	0	0	0.44	2.42	909	2.07	1061
60	0	0	0	0.44	2.66	826	2.3	956
70	0	0	0	0.44	2.9	759	2.53	869
80	0	0	0	0.44	3.13	704	2.76	798
90	0	0	0	0.44	3.34	660	2.98	739
100	0	0	0	0.44	3.45	638	3.19	690
110	0	0	0	0.44	3.57	617	3.4	648
120	0	0	0	0.44	3.69	598	3.6	612
130	0	0	0	0.44	3.8	580	3.79	581
167	0	0	0	0.44	4.22	523	4.22	523
212	0	0	0	0.44	4.69	470	4.69	470

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.352

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	7.29	3000	7.29	3000*
0	0	0	0	0.44	5.04	983	4.67	1061
30	0	0	0	0.44	5.9	840	5.51	900
40	0	0	0	0.44	6.17	803	5.78	858
50	0	0	0	0.44	6.43	771	6.04	821
60	0	0	0	0.44	6.69	742	6.29	788
70	0	0	0	0.44	6.94	715	6.54	758
80	0	0	0	0.44	7.18	691	6.78	732
90	0	0	0	0.44	7.41	670	7.02	707
100	0	0	0	0.44	7.55	657	7.25	685
110	0	0	0	0.44	7.69	646	7.47	664
120	0	0	0	0.44	7.83	634	7.69	645
130	0	0	0	0.44	7.96	624	7.9	628
167	0	0	0	0.44	8.45	588	8.45	588
212	0	0	0	0.44	9.02	551	9.02	551

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	12.99	3000	12.99	3000*
0	0	0	0	0.44	10.78	819	10.41	848
30	0	0	0	0.44	11.6	761	11.21	787
40	0	0	0	0.44	11.87	744	11.47	770
50	0	0	0	0.44	12.12	729	11.73	753
60	0	0	0	0.44	12.38	714	11.98	737
70	0	0	0	0.44	12.63	700	12.22	723
80	0	0	0	0.44	12.87	687	12.47	709
90	0	0	0	0.44	13.11	674	12.71	695
100	0	0	0	0.44	13.27	666	12.94	683
110	0	0	0	0.44	13.42	659	13.17	671
120	0	0	0	0.44	13.56	652	13.4	660
130	0	0	0	0.44	13.71	645	13.63	649
167	0	0	0	0.44	14.24	621	14.24	621
212	0	0	0	0.44	14.87	595	14.87	595

* Design Condition

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SHEET 353 OF 359

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.353

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.941	20.35	3000	20.35	3000*
0	0	0	0	0.44	18.17	761	17.8	776
30	0	0	0	0.44	18.96	729	18.58	744
40	0	0	0	0.44	19.22	720	18.83	734
50	0	0	0	0.44	19.48	710	19.08	725
60	0	0	0	0.44	19.73	701	19.33	716
70	0	0	0	0.44	19.98	693	19.58	707
80	0	0	0	0.44	20.22	684	19.82	698
90	0	0	0	0.44	20.47	676	20.06	690
100	0	0	0	0.44	20.63	671	20.3	682
110	0	0	0	0.44	20.79	666	20.53	674
120	0	0	0	0.44	20.94	661	20.77	667
130	0	0	0	0.44	21.09	656	21	659
167	0	0	0	0.44	21.65	640	21.65	640
212	0	0	0	0.44	22.32	621	22.32	621

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.354

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-2	0-3	0-4	0-4	0-5	0-6
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-9	0-11
125.00	0-4	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-3	1-5
150.00	0-6	0-6	0-7	0-8	0-10	1-0	1-2	1-5	1-9	2-1
175.00	0-8	0-9	0-10	0-11	1-1	1-4	1-7	2-0	2-5	2-10
200.00	0-10	0-11	1-1	1-3	1-5	1-9	2-1	2-7	3-1	3-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6	0-7
100.00	0-3	0-3	0-4	0-5	0-6	0-8	0-9	0-10	0-11	1-0
125.00	0-4	0-5	0-6	0-7	0-9	1-0	1-3	1-4	1-6	1-7
150.00	0-6	0-7	0-9	0-11	1-1	1-5	1-9	1-11	2-1	2-3
175.00	0-9	0-10	1-0	1-3	1-6	1-11	2-5	2-8	2-10	3-1
200.00	0-11	1-1	1-4	1-7	2-0	2-6	3-1	3-6	3-9	4-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-10
125.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
150.00	0-10	0-11	1-0	1-2	1-4	1-5	1-7	1-8	1-10	1-11
175.00	1-1	1-3	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7
200.00	1-5	1-8	1-10	2-1	2-4	2-6	2-9	3-0	3-2	3-5
225.00	1-10	2-1	2-4	2-8	2-11	3-2	3-6	3-9	4-0	4-4
250.00	2-3	2-7	2-11	3-3	3-7	4-0	4-4	4-8	5-0	5-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-10	0-11
125.00	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4	1-4	1-5
150.00	0-11	1-1	1-3	1-4	1-6	1-8	1-9	1-11	1-11	2-0
175.00	1-3	1-6	1-8	1-10	2-0	2-3	2-5	2-7	2-8	2-9
200.00	1-8	1-11	2-2	2-5	2-8	2-11	3-2	3-4	3-5	3-7
225.00	2-2	2-5	2-9	3-1	3-4	3-8	3-11	4-3	4-4	4-6
250.00	2-8	3-0	3-5	3-9	4-2	4-6	4-11	5-3	5-5	5-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.356

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-5	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-10
175.00	1-9	1-10	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-6
200.00	2-4	2-5	2-7	2-8	2-10	2-11	3-0	3-1	3-3	3-4
225.00	2-11	3-1	3-3	3-5	3-6	3-8	3-10	3-11	4-1	4-2
250.00	3-8	3-10	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-2
275.00	4-5	4-8	4-10	5-1	5-3	5-6	5-8	5-11	6-1	6-3
300.00	5-3	5-6	5-9	6-0	6-3	6-6	6-9	7-0	7-3	7-6
325.00	6-2	6-6	6-9	7-1	7-5	7-8	8-0	8-3	8-6	8-9
350.00	7-2	7-6	7-10	8-3	8-7	8-11	9-3	9-7	9-10	10-2
375.00	8-2	8-7	9-0	9-5	9-10	10-3	10-7	11-0	11-4	11-8

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Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-10	1-11	1-11
175.00	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-7
200.00	2-6	2-7	2-9	2-10	3-0	3-1	3-2	3-3	3-4	3-5
225.00	3-2	3-4	3-6	3-7	3-9	3-11	4-0	4-2	4-3	4-4
250.00	3-11	4-1	4-3	4-6	4-8	4-10	5-0	5-2	5-3	5-4
275.00	4-9	5-0	5-2	5-5	5-7	5-10	6-0	6-3	6-4	6-6
300.00	5-7	5-11	6-2	6-5	6-8	6-11	7-2	7-5	7-7	7-8
325.00	6-7	6-11	7-3	7-7	7-10	8-2	8-5	8-8	8-10	9-0
350.00	7-8	8-0	8-5	8-9	9-1	9-5	9-9	10-1	10-3	10-6
375.00	8-9	9-3	9-8	10-1	10-5	10-10	11-3	11-7	11-10	12-0

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STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-9	2-10	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-3
225.00	3-6	3-7	3-8	3-8	3-9	3-10	3-11	4-0	4-1	4-2
250.00	4-3	4-5	4-6	4-7	4-8	4-9	4-10	5-0	5-1	5-2
275.00	5-2	5-4	5-5	5-6	5-8	5-9	5-11	6-0	6-1	6-3
300.00	6-2	6-4	6-5	6-7	6-9	6-10	7-0	7-2	7-3	7-5
325.00	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-6	8-8
350.00	8-5	8-7	8-9	9-0	9-2	9-4	9-7	9-9	9-11	10-1
375.00	9-7	9-10	10-1	10-4	10-6	10-9	10-11	11-2	11-4	11-7
400.00	10-11	11-3	11-6	11-9	12-0	12-3	12-6	12-8	12-11	13-2
425.00	12-4	12-8	12-11	13-3	13-6	13-10	14-1	14-4	14-7	14-10
450.00	13-10	14-2	14-6	14-10	15-2	15-6	15-9	16-1	16-5	16-8
475.00	15-5	15-10	16-2	16-7	16-11	17-3	17-7	17-11	18-3	18-7
500.00	17-1	17-6	17-11	18-4	18-9	19-1	19-6	19-10	20-3	20-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3	3-4	3-4
225.00	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-2	4-3
250.00	4-5	4-6	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3
275.00	5-4	5-6	5-7	5-9	5-10	6-0	6-1	6-2	6-3	6-4
300.00	6-4	6-6	6-8	6-10	6-11	7-1	7-3	7-4	7-5	7-6
325.00	7-6	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-9	8-10
350.00	8-8	8-11	9-1	9-3	9-6	9-8	9-10	10-0	10-2	10-3
375.00	10-0	10-2	10-5	10-8	10-11	11-1	11-4	11-6	11-8	11-9
400.00	11-4	11-7	11-10	12-1	12-5	12-8	12-10	13-1	13-3	13-5
425.00	12-10	13-1	13-5	13-8	14-0	14-3	14-6	14-10	15-0	15-2
450.00	14-4	14-8	15-0	15-4	15-8	16-0	16-4	16-7	16-10	17-0
475.00	16-0	16-4	16-9	17-1	17-6	17-10	18-2	18-6	18-9	18-11
500.00	17-9	18-2	18-7	18-11	19-4	19-9	20-1	20-6	20-9	21-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.358

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-7	4-8	4-8	4-9	4-10	4-11	4-11	5-0	5-1	5-1
275.00	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-2
300.00	6-7	6-8	6-9	6-10	6-11	7-0	7-2	7-3	7-4	7-5
325.00	7-9	7-10	7-11	8-1	8-2	8-3	8-4	8-6	8-7	8-8
350.00	9-0	9-1	9-3	9-4	9-6	9-7	9-8	9-10	9-11	10-1
375.00	10-4	10-5	10-7	10-9	10-10	11-0	11-2	11-3	11-5	11-6
400.00	11-9	11-11	12-1	12-2	12-4	12-6	12-8	12-10	13-0	13-2
425.00	13-3	13-5	13-7	13-9	14-0	14-2	14-4	14-6	14-8	14-10
450.00	14-10	15-1	15-3	15-5	15-8	15-10	16-1	16-3	16-5	16-7
475.00	16-6	16-9	17-0	17-3	17-5	17-8	17-11	18-1	18-4	18-6
500.00	18-4	18-7	18-10	19-1	19-4	19-7	19-10	20-1	20-4	20-6
525.00	20-2	20-6	20-9	21-1	21-4	21-7	21-10	22-1	22-5	22-8
550.00	22-2	22-6	22-10	23-1	23-5	23-8	24-0	24-3	24-7	24-10
575.00	24-3	24-7	24-11	25-3	25-7	25-11	26-3	26-7	26-10	27-2
600.00	26-5	26-9	27-2	27-6	27-10	28-3	28-7	28-11	29-3	29-7
625.00	28-8	29-1	29-5	29-10	30-3	30-7	31-0	31-5	31-9	32-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-8	4-9	4-10	4-10	4-11	5-0	5-1	5-1	5-2	5-2
275.00	5-8	5-9	5-10	5-11	6-0	6-0	6-1	6-2	6-3	6-3
300.00	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4	7-5	7-6
325.00	7-11	8-0	8-1	8-3	8-4	8-5	8-6	8-8	8-8	8-9
350.00	9-2	9-3	9-5	9-6	9-8	9-9	9-11	10-0	10-1	10-2
375.00	10-6	10-8	10-10	10-11	11-1	11-3	11-4	11-6	11-7	11-8
400.00	12-0	12-2	12-4	12-5	12-7	12-9	12-11	13-1	13-2	13-4
425.00	13-6	13-8	13-11	14-1	14-3	14-5	14-7	14-9	14-11	15-0
450.00	15-2	15-4	15-7	15-9	16-0	16-2	16-5	16-7	16-8	16-10
475.00	16-11	17-1	17-4	17-7	17-10	18-0	18-3	18-6	18-7	18-9
500.00	18-8	19-0	19-3	19-6	19-9	20-0	20-3	20-6	20-8	20-9
525.00	20-7	20-11	21-2	21-6	21-9	22-0	22-4	22-7	22-9	22-11
550.00	22-8	22-11	23-3	23-7	23-11	24-2	24-6	24-9	25-0	25-2
575.00	24-9	25-1	25-5	25-9	26-1	26-5	26-9	27-1	27-4	27-6
600.00	26-11	27-4	27-8	28-1	28-5	28-10	29-2	29-6	29-9	30-0
625.00	29-3	29-8	30-1	30-6	30-10	31-3	31-8	32-0	32-3	32-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.359

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 397.5 - 26/7 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION
- 1000 LB TENSION ---------- 811.3
- 1500 LB TENSION ---------- 811.11
- 2000 LB TENSION ---------- 811.19
- 2500 LB TENSION ---------- 811.27
- 3000 LB TENSION ---------- 811.35

G.O. 95 HEAVY LOADING CONDITION
- 1000 LB TENSION ---------- 811.43
- 1500 LB TENSION ---------- 811.51
- 2000 LB TENSION ---------- 811.59
- 2500 LB TENSION ---------- 811.67
- 3000 LB TENSION ---------- 811.75

SDG&E EXTRA HEAVY LOADING CONDITION
- 1000 LB TENSION ---------- 811.83
- 1500 LB TENSION ---------- 811.89
- 2000 LB TENSION ---------- 811.97
- 2500 LB TENSION ---------- 811.105
- 3000 LB TENSION ---------- 811.113

65 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 811.121
- 1500 LB TENSION ---------- 811.129
- 2000 LB TENSION ---------- 811.137
- 2500 LB TENSION ---------- 811.145
- 3000 LB TENSION ---------- 811.153

65 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 811.161
- 1500 LB TENSION ---------- 811.169
- 2000 LB TENSION ---------- 811.177
- 2500 LB TENSION ---------- 811.185
- 3000 LB TENSION ---------- 811.193

85 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 811.201
- 1500 LB TENSION ---------- 811.209
- 2000 LB TENSION ---------- 811.217
- 2500 LB TENSION ---------- 811.225
- 3000 LB TENSION ---------- 811.233

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

397.5 - 26/7 ACSR/AW TABLE OF CONTENTS

OH811.1

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 397.5 - 26/7 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

85 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 811.241
1500 LB TENSION ---------- 811.249
2000 LB TENSION ---------- 811.257
2500 LB TENSION ---------- 811.265
3000 LB TENSION ---------- 811.273

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 811.281
1500 LB TENSION ---------- 811.289
2000 LB TENSION ---------- 811.297
2500 LB TENSION ---------- 811.305
3000 LB TENSION ---------- 811.313

111 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 811.321
1500 LB TENSION ---------- 811.329
2000 LB TENSION ---------- 811.337
2500 LB TENSION ---------- 811.345
3000 LB TENSION ---------- 811.353

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REFERENCE:

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	0.95	974	0.92	1000*
25	0	0	0	0.52	0.84	775	0.8	812
30	0	0	0	0.52	0.92	708	0.87	745
40	0	0	0	0.52	1.07	607	1.02	639
50	0	0	0	0.52	1.22	534	1.16	561
60	0	0	0	0.52	1.35	480	1.29	503
70	0	0	0	0.52	1.48	439	1.42	458
80	0	0	0	0.52	1.6	406	1.54	423
90	0	0	0	0.52	1.67	390	1.65	394
100	0	0	0	0.52	1.74	374	1.74	374
110	0	0	0	0.52	1.81	360	1.81	360
120	0	0	0	0.52	1.87	348	1.87	348
130	0	0	0	0.52	1.94	336	1.94	336
167	0	0	0	0.52	2.16	302	2.16	302
212	0	0	0	0.52	2.41	271	2.41	271

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	3.76	980	3.69	1000*
25	0	0	0	0.52	3.63	718	3.53	738
30	0	0	0	0.52	3.73	698	3.63	718
40	0	0	0	0.52	3.92	664	3.81	683
50	0	0	0	0.52	4.11	634	4	651
60	0	0	0	0.52	4.29	607	4.17	624
70	0	0	0	0.52	4.46	584	4.35	599
80	0	0	0	0.52	4.63	563	4.51	577
90	0	0	0	0.52	4.79	544	4.67	557
100	0	0	0	0.52	4.89	533	4.83	539
110	0	0	0	0.52	4.99	522	4.99	523
120	0	0	0	0.52	5.09	512	5.09	512
130	0	0	0	0.52	5.19	502	5.19	502
167	0	0	0	0.52	5.53	471	5.53	471
212	0	0	0	0.52	5.93	440	5.93	440

* Design Condition

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SHEET 3 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.3

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	8.41	989	8.31	1000*
25	0	0	0	0.52	8.27	710	8.15	720
30	0	0	0	0.52	8.37	701	8.25	711
40	0	0	0	0.52	8.58	684	8.45	695
50	0	0	0	0.52	8.78	669	8.65	679
60	0	0	0	0.52	8.98	654	8.84	664
70	0	0	0	0.52	9.17	640	9.03	650
80	0	0	0	0.52	9.36	627	9.22	637
90	0	0	0	0.52	9.55	615	9.4	625
100	0	0	0	0.52	9.7	605	9.58	613
110	0	0	0	0.52	9.82	598	9.76	602
120	0	0	0	0.52	9.93	591	9.93	591
130	0	0	0	0.52	10.05	585	10.05	585
167	0	0	0	0.52	10.47	562	10.47	562
212	0	0	0	0.52	10.95	537	10.95	537

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	14.92	993	14.82	1000*
25	0	0	0	0.52	14.78	708	14.64	714
30	0	0	0	0.52	14.88	703	14.75	709
40	0	0	0	0.52	15.09	693	14.95	699
50	0	0	0	0.52	15.3	684	15.16	690
60	0	0	0	0.52	15.51	675	15.36	681
70	0	0	0	0.52	15.71	666	15.56	673
80	0	0	0	0.52	15.91	658	15.75	664
90	0	0	0	0.52	16.11	650	15.95	656
100	0	0	0	0.52	16.3	642	16.14	649
110	0	0	0	0.52	16.43	637	16.33	641
120	0	0	0	0.52	16.55	633	16.52	634
130	0	0	0	0.52	16.68	628	16.68	628
167	0	0	0	0.52	17.14	611	17.14	611
212	0	0	0	0.52	17.68	593	17.68	593

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.737	23.34	995	23.22	1000*
25	0	0	0	0.52	23.19	707	23.05	711
30	0	0	0	0.52	23.29	704	23.15	708
40	0	0	0	0.52	23.51	697	23.36	702
50	0	0	0	0.52	23.72	691	23.57	696
60	0	0	0	0.52	23.93	685	23.77	690
70	0	0	0	0.52	24.14	679	23.98	684
80	0	0	0	0.52	24.35	674	24.18	678
90	0	0	0	0.52	24.55	668	24.38	673
100	0	0	0	0.52	24.75	663	24.58	668
110	0	0	0	0.52	24.89	659	24.78	662
120	0	0	0	0.52	25.02	656	24.97	657
130	0	0	0	0.52	25.16	652	25.16	652
167	0	0	0	0.52	25.64	640	25.64	640
212	0	0	0	0.52	26.21	627	26.21	627

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-0
100.00	0-9	0-10	1-0	1-2	1-4	1-5	1-6	1-8	1-9	1-10
125.00	1-2	1-4	1-7	1-10	2-0	2-3	2-5	2-7	2-9	2-10
150.00	1-8	2-0	2-3	2-7	2-11	3-2	3-6	3-9	3-11	4-1
175.00	2-3	2-8	3-1	3-7	4-0	4-4	4-9	5-1	5-4	5-7
200.00	2-11	3-6	4-1	4-8	5-2	5-8	6-2	6-7	7-0	7-3

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-0
100.00	0-9	0-11	1-1	1-3	1-4	1-6	1-7	1-8	1-9	1-10
125.00	1-2	1-5	1-8	1-11	2-1	2-4	2-6	2-7	2-9	2-10
150.00	1-9	2-1	2-5	2-9	3-1	3-4	3-7	3-9	3-11	4-1
175.00	2-4	2-10	3-3	3-9	4-2	4-7	4-11	5-1	5-4	5-7
200.00	3-1	3-8	4-3	4-10	5-5	5-11	6-5	6-8	7-0	7-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.6

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-2	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11
150.00	1-11	2-0	2-2	2-3	2-4	2-5	2-6	2-8	2-9	2-10
175.00	2-8	2-9	2-11	3-1	3-2	3-4	3-5	3-7	3-8	3-10
200.00	3-5	3-8	3-10	4-0	4-2	4-4	4-6	4-8	4-10	5-0
225.00	4-4	4-7	4-10	5-1	5-3	5-6	5-9	5-11	6-1	6-4
250.00	5-4	5-8	6-0	6-3	6-6	6-10	7-1	7-4	7-7	7-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3
125.00	1-5	1-5	1-6	1-7	1-8	1-9	1-10	1-10	1-11	1-11
150.00	2-0	2-1	2-2	2-4	2-5	2-6	2-7	2-8	2-9	2-10
175.00	2-8	2-10	3-0	3-2	3-3	3-5	3-7	3-8	3-9	3-10
200.00	3-6	3-9	3-11	4-1	4-3	4-6	4-8	4-10	4-11	5-0
225.00	4-6	4-9	5-0	5-2	5-5	5-8	5-10	6-1	6-2	6-4
250.00	5-6	5-10	6-2	6-5	6-8	7-0	7-3	7-6	7-8	7-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.7

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-1	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-5
175.00	2-9	2-10	2-10	2-11	3-0	3-1	3-2	3-2	3-3	3-4
200.00	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4
225.00	4-6	4-8	4-9	4-10	5-0	5-1	5-2	5-3	5-5	5-6
250.00	5-7	5-9	5-10	6-0	6-2	6-3	6-5	6-6	6-8	6-9
275.00	6-9	6-11	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-2
300.00	8-1	8-3	8-5	8-8	8-10	9-0	9-3	9-5	9-7	9-9
325.00	9-5	9-8	9-11	10-2	10-5	10-7	10-10	11-0	11-3	11-5
350.00	10-11	11-3	11-6	11-9	12-0	12-4	12-7	12-10	13-1	13-3
375.00	12-7	12-11	13-3	13-6	13-10	14-1	14-5	14-8	15-0	15-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-5	2-5	2-5
175.00	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-4	3-4
200.00	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-4
225.00	4-7	4-8	4-10	4-11	5-1	5-2	5-3	5-4	5-5	5-6
250.00	5-8	5-10	5-11	6-1	6-3	6-4	6-6	6-8	6-9	6-10
275.00	6-10	7-0	7-2	7-5	7-7	7-8	7-10	8-0	8-2	8-3
300.00	8-2	8-4	8-7	8-9	9-0	9-2	9-4	9-7	9-8	9-10
325.00	9-7	9-10	10-1	10-4	10-6	10-9	11-0	11-3	11-5	11-6
350.00	11-1	11-5	11-8	11-11	12-3	12-6	12-9	13-0	13-3	13-4
375.00	12-9	13-1	13-5	13-9	14-0	14-4	14-8	14-11	15-2	15-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.8

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-8	3-8	3-9	3-9	3-10	3-11	3-11	4-0	4-0	4-1
225.00	4-7	4-8	4-9	4-9	4-10	4-11	5-0	5-0	5-1	5-2
250.00	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-4
275.00	6-10	7-0	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-9
300.00	8-2	8-3	8-5	8-6	8-8	8-9	8-10	9-0	9-1	9-2
325.00	9-7	9-9	9-10	10-0	10-2	10-3	10-5	10-6	10-8	10-9
350.00	11-2	11-3	11-5	11-7	11-9	11-11	12-1	12-2	12-4	12-6
375.00	12-9	13-0	13-2	13-4	13-6	13-8	13-10	14-0	14-2	14-4
400.00	14-6	14-9	14-11	15-2	15-4	15-7	15-9	15-11	16-2	16-4
425.00	16-5	16-8	16-11	17-1	17-4	17-7	17-9	18-0	18-3	18-5
450.00	18-5	18-8	18-11	19-2	19-5	19-8	19-11	20-2	20-5	20-8
475.00	20-6	20-10	21-1	21-5	21-8	21-11	22-3	22-6	22-9	23-1
500.00	22-9	23-1	23-5	23-9	24-0	24-4	24-8	24-11	25-3	25-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-8	3-9	3-9	3-10	3-10	3-11	4-0	4-0	4-1	4-1
225.00	4-8	4-8	4-9	4-10	4-11	5-0	5-0	5-1	5-2	5-2
250.00	5-9	5-10	5-11	6-0	6-1	6-2	6-2	6-3	6-4	6-5
275.00	6-11	7-0	7-2	7-3	7-4	7-5	7-6	7-7	7-8	7-9
300.00	8-3	8-4	8-6	8-7	8-9	8-10	8-11	9-1	9-2	9-3
325.00	9-8	9-10	9-11	10-1	10-3	10-4	10-6	10-8	10-9	10-10
350.00	11-3	11-5	11-7	11-9	11-10	12-0	12-2	12-4	12-6	12-7
375.00	12-11	13-1	13-3	13-5	13-8	13-10	14-0	14-2	14-4	14-5
400.00	14-8	14-11	15-1	15-4	15-6	15-9	15-11	16-1	16-4	16-5
425.00	16-7	16-10	17-1	17-3	17-6	17-9	18-0	18-2	18-5	18-7
450.00	18-7	18-10	19-1	19-5	19-8	19-11	20-2	20-5	20-8	20-10
475.00	20-8	21-0	21-4	21-7	21-11	22-2	22-6	22-9	23-0	23-2
500.00	22-11	23-3	23-7	23-11	24-3	24-7	24-11	25-2	25-6	25-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.9

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-9	5-9	5-10	5-11	5-11	6-0	6-0	6-1	6-2	6-2
275.00	6-11	7-0	7-1	7-1	7-2	7-3	7-4	7-4	7-5	7-6
300.00	8-3	8-4	8-5	8-6	8-7	8-7	8-8	8-9	8-10	8-11
325.00	9-8	9-9	9-10	9-11	10-0	10-1	10-2	10-3	10-4	10-5
350.00	11-3	11-4	11-5	11-6	11-8	11-9	11-10	11-11	12-0	12-1
375.00	12-11	13-0	13-1	13-3	13-4	13-6	13-7	13-8	13-10	13-11
400.00	14-8	14-10	14-11	15-1	15-2	15-4	15-5	15-7	15-9	15-10
425.00	16-7	16-9	16-10	17-0	17-2	17-4	17-5	17-7	17-9	17-11
450.00	18-7	18-9	18-11	19-1	19-3	19-5	19-7	19-9	19-11	20-1
475.00	20-8	20-11	21-1	21-3	21-5	21-8	21-10	22-0	22-2	22-4
500.00	22-11	23-2	23-4	23-7	23-9	24-0	24-2	24-5	24-7	24-9
525.00	25-4	25-6	25-9	26-0	26-3	26-5	26-8	26-11	27-1	27-4
550.00	27-9	28-0	28-3	28-6	28-9	29-0	29-3	29-6	29-9	30-0
575.00	30-4	30-8	30-11	31-2	31-6	31-9	32-0	32-3	32-6	32-10
600.00	33-1	33-5	33-8	34-0	34-3	34-7	34-10	35-2	35-5	35-9
625.00	35-11	36-3	36-7	36-11	37-3	37-6	37-10	38-2	38-6	38-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-9	5-10	5-10	5-11	6-0	6-0	6-1	6-1	6-2	6-2
275.00	7-0	7-0	7-1	7-2	7-3	7-3	7-4	7-5	7-6	7-6
300.00	8-4	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-11	8-11
325.00	9-9	9-10	9-11	10-0	10-1	10-2	10-3	10-4	10-5	10-6
350.00	11-4	11-5	11-6	11-7	11-8	11-10	11-11	12-0	12-1	12-2
375.00	13-0	13-1	13-2	13-4	13-5	13-7	13-8	13-9	13-11	14-0
400.00	14-9	14-11	15-0	15-2	15-4	15-5	15-7	15-8	15-10	15-11
425.00	16-8	16-10	17-0	17-1	17-3	17-5	17-7	17-9	17-10	18-0
450.00	18-8	18-10	19-0	19-2	19-4	19-6	19-9	19-10	20-0	20-2
475.00	20-10	21-0	21-3	21-5	21-7	21-9	22-0	22-2	22-4	22-5
500.00	23-1	23-4	23-6	23-9	23-11	24-2	24-4	24-7	24-9	24-11
525.00	25-5	25-8	25-11	26-2	26-5	26-7	26-10	27-1	27-4	27-5
550.00	27-11	28-2	28-6	28-9	29-0	29-3	29-6	29-9	30-0	30-2
575.00	30-7	30-10	31-1	31-5	31-8	31-11	32-3	32-6	32-9	32-11
600.00	33-3	33-7	33-11	34-2	34-6	34-10	35-1	35-5	35-8	35-11
625.00	36-1	36-5	36-10	37-2	37-5	37-9	38-1	38-5	38-9	39-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.10

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.737	0.95	974	0.92	1000*
25	0	0	0	0.52	0.84	775	0.8	812
30	0	0	0	0.52	0.92	708	0.87	745
40	0	0	0	0.52	1.07	607	1.02	639
50	0	0	0	0.52	1.22	534	1.16	561
60	0	0	0	0.52	1.35	480	1.29	503
70	0	0	0	0.52	1.48	439	1.42	458
80	0	0	0	0.52	1.6	406	1.54	423
90	0	0	0	0.52	1.67	390	1.65	394
100	0	0	0	0.52	1.74	374	1.74	374
110	0	0	0	0.52	1.81	360	1.81	360
120	0	0	0	0.52	1.87	348	1.87	348
130	0	0	0	0.52	1.94	336	1.94	336
167	0	0	0	0.52	2.16	302	2.16	302
212	0	0	0	0.52	2.41	271	2.41	271

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.737	3.76	980	3.69	1000*
25	0	0	0	0.52	3.63	718	3.53	738
30	0	0	0	0.52	3.73	698	3.63	718
40	0	0	0	0.52	3.92	664	3.81	683
50	0	0	0	0.52	4.11	634	4	651
60	0	0	0	0.52	4.29	607	4.17	624
70	0	0	0	0.52	4.46	584	4.35	599
80	0	0	0	0.52	4.63	563	4.51	577
90	0	0	0	0.52	4.79	544	4.67	557
100	0	0	0	0.52	4.89	533	4.83	539
110	0	0	0	0.52	4.99	522	4.99	523
120	0	0	0	0.52	5.09	512	5.09	512
130	0	0	0	0.52	5.19	502	5.19	502
167	0	0	0	0.52	5.53	471	5.53	471
212	0	0	0	0.52	5.93	440	5.93	440

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.11

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.737	8.41	989	8.31	1000*
25	0	0	0	0.52	8.27	710	8.15	720
30	0	0	0	0.52	8.37	701	8.25	711
40	0	0	0	0.52	8.58	684	8.45	695
50	0	0	0	0.52	8.78	669	8.65	679
60	0	0	0	0.52	8.98	654	8.84	664
70	0	0	0	0.52	9.17	640	9.03	650
80	0	0	0	0.52	9.36	627	9.22	637
90	0	0	0	0.52	9.55	615	9.4	625
100	0	0	0	0.52	9.7	605	9.58	613
110	0	0	0	0.52	9.82	598	9.76	602
120	0	0	0	0.52	9.93	591	9.93	591
130	0	0	0	0.52	10.05	585	10.05	585
167	0	0	0	0.52	10.47	562	10.47	562
212	0	0	0	0.52	10.95	537	10.95	537

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.737	14.92	993	14.82	1000*
25	0	0	0	0.52	14.78	708	14.64	714
30	0	0	0	0.52	14.88	703	14.75	709
40	0	0	0	0.52	15.09	693	14.95	699
50	0	0	0	0.52	15.3	684	15.16	690
60	0	0	0	0.52	15.51	675	15.36	681
70	0	0	0	0.52	15.71	666	15.56	673
80	0	0	0	0.52	15.91	658	15.75	664
90	0	0	0	0.52	16.11	650	15.95	656
100	0	0	0	0.52	16.3	642	16.14	649
110	0	0	0	0.52	16.43	637	16.33	641
120	0	0	0	0.52	16.55	633	16.52	634
130	0	0	0	0.52	16.68	628	16.68	628
167	0	0	0	0.52	17.14	611	17.14	611
212	0	0	0	0.52	17.68	593	17.68	593

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.737	23.34	995	23.22	1000*
25	0	0	0	0.52	23.19	707	23.05	711
30	0	0	0	0.52	23.29	704	23.15	708
40	0	0	0	0.52	23.51	697	23.36	702
50	0	0	0	0.52	23.72	691	23.57	696
60	0	0	0	0.52	23.93	685	23.77	690
70	0	0	0	0.52	24.14	679	23.98	684
80	0	0	0	0.52	24.35	674	24.18	678
90	0	0	0	0.52	24.55	668	24.38	673
100	0	0	0	0.52	24.75	663	24.58	668
110	0	0	0	0.52	24.89	659	24.78	662
120	0	0	0	0.52	25.02	656	24.97	657
130	0	0	0	0.52	25.16	652	25.16	652
167	0	0	0	0.52	25.64	640	25.64	640
212	0	0	0	0.52	26.21	627	26.21	627

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 3	0- 4	0- 4	0- 5	0- 6	0- 7	0- 8	0- 9	0-10	0-10
100.00	0- 5	0- 6	0- 8	0- 9	0-11	1- 1	1- 3	1- 4	1- 6	1- 7
125.00	0- 8	0-10	1- 0	1- 3	1- 5	1- 8	1-11	2- 1	2- 3	2- 5
150.00	1- 0	1- 2	1- 5	1- 9	2- 1	2- 5	2- 9	3- 0	3- 4	3- 6
175.00	1- 4	1- 7	2- 0	2- 5	2-10	3- 3	3- 8	4- 1	4- 6	4- 9
200.00	1- 9	2- 1	2- 7	3- 1	3- 8	4- 3	4-10	5- 4	5-10	6- 2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 3	0- 4	0- 5	0- 6	0- 7	0- 8	0- 9	0- 9	0-10	0-10
100.00	0- 5	0- 7	0- 9	0-10	1- 0	1- 2	1- 4	1- 5	1- 6	1- 7
125.00	0- 9	0-11	1- 1	1- 4	1- 7	1-10	2- 1	2- 2	2- 4	2- 5
150.00	1- 0	1- 3	1- 7	2- 0	2- 4	2- 8	2-11	3- 2	3- 4	3- 6
175.00	1- 5	1- 9	2- 2	2- 8	3- 2	3- 7	4- 0	4- 3	4- 6	4- 9
200.00	1-10	2- 3	2-10	3- 6	4- 1	4- 8	5- 3	5- 7	5-11	6- 2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.14

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 6	0- 7	0- 8	0- 8	0- 9	0-10	0-10	0-11	0-11	1- 0
125.00	0-10	0-11	1- 0	1- 1	1- 2	1- 3	1- 4	1- 5	1- 6	1- 7
150.00	1- 2	1- 3	1- 5	1- 6	1- 8	1- 9	1-11	2- 0	2- 1	2- 3
175.00	1- 7	1- 9	1-11	2- 1	2- 3	2- 5	2- 7	2- 9	2-11	3- 0
200.00	2- 1	2- 3	2- 6	2- 9	2-11	3- 2	3- 4	3- 7	3- 9	3-11
225.00	2- 7	2-11	3- 2	3- 6	3- 9	4- 0	4- 3	4- 6	4- 9	5- 0
250.00	3- 2	3- 7	3-11	4- 3	4- 7	4-11	5- 3	5- 7	5-11	6- 2

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 7	0- 7	0- 8	0- 9	0- 9	0-10	0-11	0-11	1- 0	1- 0
125.00	0-10	1- 0	1- 1	1- 2	1- 3	1- 4	1- 5	1- 6	1- 6	1- 7
150.00	1- 3	1- 5	1- 6	1- 8	1- 9	1-11	2- 0	2- 2	2- 3	2- 3
175.00	1- 8	1-11	2- 1	2- 3	2- 5	2- 7	2- 9	2-11	3- 0	3- 1
200.00	2- 3	2- 6	2- 8	2-11	3- 2	3- 5	3- 7	3- 9	3-11	4- 1
225.00	2-10	3- 1	3- 5	3- 9	4- 0	4- 3	4- 6	4- 9	5- 0	5- 1
250.00	3- 6	3-10	4- 3	4- 7	4-11	5- 3	5- 7	5-11	6- 2	6- 4

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STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.15

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1- 3	1- 4	1- 5	1- 6	1- 6	1- 7	1- 8	1- 9	1- 9	1-10
175.00	1- 9	1-10	1-11	2- 0	2- 1	2- 2	2- 3	2- 4	2- 5	2- 6
200.00	2- 3	2- 4	2- 6	2- 7	2- 9	2-10	2-11	3- 1	3- 2	3- 3
225.00	2-10	3- 0	3- 2	3- 4	3- 5	3- 7	3- 9	3-10	4- 0	4- 1
250.00	3- 6	3- 8	3-11	4- 1	4- 3	4- 5	4- 7	4- 9	4-11	5- 1
275.00	4- 3	4- 6	4- 8	4-11	5- 2	5- 4	5- 7	5- 9	5-11	6- 2
300.00	5- 1	5- 4	5- 7	5-10	6- 1	6- 4	6- 7	6-10	7- 1	7- 4
325.00	5-11	6- 3	6- 7	6-11	7- 2	7- 6	7- 9	8- 1	8- 4	8- 7
350.00	6-10	7- 3	7- 7	8- 0	8- 4	8- 8	9- 0	9- 4	9- 8	10- 0
375.00	7-11	8- 4	8- 9	9- 2	9- 7	9-11	10- 4	10- 9	11- 1	11- 5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1- 4	1- 5	1- 6	1- 6	1- 7	1- 8	1- 9	1- 9	1-10	1-11
175.00	1-10	1-11	2- 0	2- 1	2- 2	2- 3	2- 4	2- 5	2- 6	2- 7
200.00	2- 4	2- 6	2- 7	2- 9	2-10	2-11	3- 1	3- 2	3- 3	3- 4
225.00	3- 0	3- 2	3- 4	3- 5	3- 7	3- 9	3-11	4- 0	4- 2	4- 3
250.00	3- 8	3-11	4- 1	4- 3	4- 5	4- 7	4-10	5- 0	5- 1	5- 3
275.00	4- 5	4- 8	4-11	5- 2	5- 5	5- 7	5-10	6- 0	6- 2	6- 4
300.00	5- 4	5- 7	5-10	6- 2	6- 5	6- 8	6-11	7- 2	7- 5	7- 7
325.00	6- 3	6- 7	6-11	7- 2	7- 6	7-10	8- 1	8- 5	8- 8	8-10
350.00	7- 3	7- 7	8- 0	8- 4	8- 9	9- 1	9- 5	9- 9	10- 1	10- 3
375.00	8- 3	8- 9	9- 2	9- 7	10- 0	10- 5	10- 9	11- 2	11- 6	11-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.16

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2- 4	2- 5	2- 6	2- 7	2- 7	2- 8	2- 9	2-10	2-11	2-11
225.00	2-11	3- 1	3- 2	3- 3	3- 4	3- 5	3- 6	3- 7	3- 8	3- 9
250.00	3- 8	3- 9	3-10	4- 0	4- 1	4- 2	4- 4	4- 5	4- 6	4- 7
275.00	4- 5	4- 7	4- 8	4-10	4-11	5- 1	5- 2	5- 4	5- 5	5- 7
300.00	5- 3	5- 5	5- 7	5- 9	5-11	6- 1	6- 2	6- 4	6- 6	6- 8
325.00	6- 2	6- 4	6- 7	6- 9	6-11	7- 1	7- 3	7- 5	7- 7	7- 9
350.00	7- 2	7- 4	7- 7	7-10	8- 0	8- 3	8- 5	8- 8	8-10	9- 0
375.00	8- 2	8- 5	8- 9	9- 0	9- 2	9- 5	9- 8	9-11	10- 2	10- 4
400.00	9- 4	9- 7	9-11	10- 2	10- 6	10- 9	11- 0	11- 3	11- 7	11-10
425.00	10- 6	10-10	11- 2	11- 6	11-10	12- 2	12- 5	12- 9	13- 0	13- 4
450.00	11-10	12- 2	12- 7	12-11	13- 3	13- 7	13-11	14- 3	14- 7	14-11
475.00	13- 2	13- 7	14- 0	14- 5	14- 9	15- 2	15- 7	15-11	16- 3	16- 8
500.00	14- 7	15- 1	15- 6	15-11	16- 5	16-10	17- 3	17- 8	18- 1	18- 5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2- 5	2- 6	2- 7	2- 8	2- 8	2- 9	2-10	2-11	3- 0	3- 0
225.00	3- 1	3- 2	3- 3	3- 4	3- 5	3- 6	3- 7	3- 8	3- 9	3-10
250.00	3- 9	3-11	4- 0	4- 1	4- 3	4- 4	4- 5	4- 6	4- 8	4- 9
275.00	4- 7	4- 8	4-10	5- 0	5- 1	5- 3	5- 4	5- 6	5- 7	5- 9
300.00	5- 5	5- 7	5- 9	5-11	6- 1	6- 3	6- 5	6- 6	6- 8	6-10
325.00	6- 4	6- 7	6- 9	6-11	7- 2	7- 4	7- 6	7- 8	7-10	8- 0
350.00	7- 4	7- 7	7-10	8- 1	8- 3	8- 6	8- 8	8-11	9- 1	9- 4
375.00	8- 6	8- 9	9- 0	9- 3	9- 6	9- 9	10- 0	10- 3	10- 5	10- 8
400.00	9- 7	9-11	10- 3	10- 6	10-10	11- 1	11- 4	11- 7	11-11	12- 2
425.00	10-10	11- 3	11- 7	11-11	12- 2	12- 6	12-10	13- 1	13- 5	13- 9
450.00	12- 2	12- 7	12-11	13- 4	13- 8	14- 0	14- 4	14- 9	15- 1	15- 4
475.00	13- 7	14- 0	14- 5	14-10	15- 3	15- 8	16- 0	16- 5	16- 9	17- 2
500.00	15- 1	15- 6	16- 0	16- 5	16-11	17- 4	17- 9	18- 2	18- 7	19- 0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.17

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3- 9	3- 9	3-10	3-11	4- 0	4- 1	4- 2	4- 3	4- 4	4- 4
275.00	4- 6	4- 7	4- 8	4- 9	4-10	4-11	5- 0	5- 1	5- 2	5- 3
300.00	5- 4	5- 6	5- 7	5- 8	5- 9	5-11	6- 0	6- 1	6- 2	6- 3
325.00	6- 3	6- 5	6- 6	6- 8	6- 9	6-11	7- 0	7- 2	7- 3	7- 4
350.00	7- 3	7- 5	7- 7	7- 9	7-10	8- 0	8- 2	8- 3	8- 5	8- 7
375.00	8- 4	8- 6	8- 8	8-10	9- 0	9- 2	9- 4	9- 6	9- 8	9-10
400.00	9- 6	9- 9	9-11	10- 1	10- 3	10- 6	10- 8	10-10	11- 0	11- 2
425.00	10- 9	11- 0	11- 2	11- 5	11- 7	11-10	12- 0	12- 3	12- 5	12- 7
450.00	12- 1	12- 3	12- 6	12- 9	13- 0	13- 3	13- 6	13- 8	13-11	14- 2
475.00	13- 5	13- 8	14- 0	14- 3	14- 6	14- 9	15- 0	15- 3	15- 6	15- 9
500.00	14-10	15- 2	15- 6	15- 9	16- 1	16- 4	16- 8	16-11	17- 2	17- 6
525.00	16- 5	16- 9	17- 1	17- 5	17- 9	18- 0	18- 4	18- 8	18-11	19- 3
550.00	18- 0	18- 4	18- 9	19- 1	19- 5	19- 9	20- 2	20- 6	20-10	21- 2
575.00	19- 8	20- 1	20- 6	20-10	21- 3	21- 8	22- 0	22- 5	22- 9	23- 1
600.00	21- 5	21-10	22- 4	22- 9	23- 2	23- 7	24- 0	24- 4	24- 9	25- 2
625.00	23- 3	23- 9	24- 2	24- 8	25- 1	25- 7	26- 0	26- 5	26-11	27- 4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-10	3-10	3-11	4- 0	4- 1	4- 2	4- 3	4- 4	4- 5	4- 5
275.00	4- 7	4- 8	4- 9	4-10	5- 0	5- 1	5- 2	5- 3	5- 4	5- 5
300.00	5- 6	5- 7	5- 8	5-10	5-11	6- 0	6- 1	6- 3	6- 4	6- 5
325.00	6- 5	6- 7	6- 8	6-10	6-11	7- 1	7- 2	7- 4	7- 5	7- 6
350.00	7- 5	7- 7	7- 9	7-11	8- 0	8- 2	8- 4	8- 6	8- 7	8- 9
375.00	8- 7	8- 9	8-11	9- 1	9- 3	9- 5	9- 7	9- 9	9-10	10- 0
400.00	9- 9	9-11	10- 1	10- 4	10- 6	10- 8	10-10	11- 1	11- 3	11- 5
425.00	11- 0	11- 2	11- 5	11- 8	11-10	12- 1	12- 3	12- 6	12- 8	12-11
450.00	12- 4	12- 7	12-10	13- 1	13- 4	13- 6	13- 9	14- 0	14- 3	14- 5
475.00	13- 9	14- 0	14- 3	14- 7	14-10	15- 1	15- 4	15- 7	15-10	16- 1
500.00	15- 2	15- 6	15-10	16- 1	16- 5	16- 9	17- 0	17- 3	17- 7	17-10
525.00	16- 9	17- 1	17- 5	17- 9	18- 1	18- 5	18- 9	19- 1	19- 4	19- 8
550.00	18- 5	18- 9	19- 2	19- 6	19-10	20- 3	20- 7	20-11	21- 3	21- 7
575.00	20- 1	20- 6	20-11	21- 4	21- 9	22- 1	22- 6	22-10	23- 3	23- 7
600.00	21-11	22- 4	22- 9	23- 3	23- 8	24- 1	24- 6	24-11	25- 4	25- 8
625.00	23- 9	24- 3	24- 9	25- 2	25- 8	26- 2	26- 7	27- 0	27- 6	27-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.18

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.737	0.49	1889	0.46	2000*
25	0	0	0	0.52	0.37	1780	0.34	1916
30	0	0	0	0.52	0.41	1602	0.37	1766
40	0	0	0	0.52	0.51	1279	0.44	1476
50	0	0	0	0.52	0.64	1016	0.54	1212
60	0	0	0	0.52	0.79	821	0.66	990
70	0	0	0	0.52	0.95	685	0.8	817
80	0	0	0	0.52	1.1	591	0.94	690
90	0	0	0	0.52	1.19	545	1.09	599
100	0	0	0	0.52	1.27	513	1.22	531
110	0	0	0	0.52	1.35	483	1.35	483
120	0	0	0	0.52	1.42	458	1.42	458
130	0	0	0	0.52	1.49	435	1.49	435
167	0	0	0	0.52	1.75	372	1.75	372
212	0	0	0	0.52	2.04	320	2.04	320

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.737	1.99	1853	1.84	2000*
25	0	0	0	0.52	1.68	1553	1.49	1745
30	0	0	0	0.52	1.79	1450	1.59	1640
40	0	0	0	0.52	2.04	1275	1.79	1451
50	0	0	0	0.52	2.29	1136	2.01	1292
60	0	0	0	0.52	2.54	1026	2.24	1160
70	0	0	0	0.52	2.78	937	2.47	1053
80	0	0	0	0.52	3.01	865	2.7	964
90	0	0	0	0.52	3.23	806	2.92	891
100	0	0	0	0.52	3.41	763	3.14	830
110	0	0	0	0.52	3.53	738	3.34	778
120	0	0	0	0.52	3.64	715	3.54	734
130	0	0	0	0.52	3.76	693	3.74	696
167	0	0	0	0.52	4.17	624	4.17	624
212	0	0	0	0.52	4.65	560	4.65	560

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.19

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	4.42	1876	4.15	2000*
25	0	0	0	0.52	4	1463	3.63	1612
30	0	0	0	0.52	4.16	1406	3.78	1549
40	0	0	0	0.52	4.48	1306	4.08	1436
50	0	0	0	0.52	4.8	1221	4.38	1338
60	0	0	0	0.52	5.1	1148	4.67	1254
70	0	0	0	0.52	5.39	1086	4.96	1181
80	0	0	0	0.52	5.68	1031	5.24	1117
90	0	0	0	0.52	5.96	984	5.52	1062
100	0	0	0	0.52	6.23	941	5.79	1012
110	0	0	0	0.52	6.45	908	6.05	969
120	0	0	0	0.52	6.6	888	6.3	930
130	0	0	0	0.52	6.75	868	6.55	894
167	0	0	0	0.52	7.29	805	7.28	805
212	0	0	0	0.52	7.91	742	7.9	742

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	7.75	1904	7.38	2000*
25	0	0	0	0.52	7.27	1432	6.78	1536
30	0	0	0	0.52	7.45	1397	6.95	1498
40	0	0	0	0.52	7.81	1333	7.3	1427
50	0	0	0	0.52	8.16	1276	7.64	1364
60	0	0	0	0.52	8.5	1225	7.97	1307
70	0	0	0	0.52	8.83	1179	8.3	1255
80	0	0	0	0.52	9.16	1138	8.62	1209
90	0	0	0	0.52	9.47	1100	8.93	1166
100	0	0	0	0.52	9.78	1066	9.24	1128
110	0	0	0	0.52	10.08	1034	9.54	1092
120	0	0	0	0.52	10.32	1010	9.84	1060
130	0	0	0	0.52	10.5	993	10.13	1030
167	0	0	0	0.52	11.13	937	11.12	938
212	0	0	0	0.52	11.87	879	11.86	880

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.20

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.737	11.98	1926	11.54	2000*
25	0	0	0	0.52	11.46	1421	10.89	1495
30	0	0	0	0.52	11.66	1397	11.08	1470
40	0	0	0	0.52	12.04	1353	11.45	1422
50	0	0	0	0.52	12.41	1312	11.82	1378
60	0	0	0	0.52	12.78	1275	12.18	1338
70	0	0	0	0.52	13.14	1241	12.53	1300
80	0	0	0	0.52	13.49	1208	12.87	1266
90	0	0	0	0.52	13.83	1179	13.22	1233
100	0	0	0	0.52	14.17	1151	13.55	1203
110	0	0	0	0.52	14.5	1125	13.88	1174
120	0	0	0	0.52	14.82	1100	14.2	1148
130	0	0	0	0.52	15.04	1084	14.52	1123
167	0	0	0	0.52	15.75	1036	15.66	1042
212	0	0	0	0.52	16.59	984	16.58	985

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9
100.00	0-4	0-4	0-5	0-6	0-8	0-10	0-11	1-1	1-3	1-4
125.00	0-6	0-7	0-8	0-10	1-0	1-3	1-6	1-8	1-11	2-1
150.00	0-8	0-10	1-0	1-2	1-6	1-9	2-1	2-5	2-9	3-0
175.00	1-0	1-2	1-4	1-8	2-0	2-5	2-11	3-4	3-9	4-2
200.00	1-3	1-6	1-9	2-2	2-8	3-2	3-9	4-4	4-11	5-5

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9
100.00	0-4	0-5	0-6	0-8	0-10	0-11	1-1	1-2	1-3	1-4
125.00	0-6	0-8	0-10	1-0	1-3	1-6	1-9	1-10	2-0	2-1
150.00	0-9	0-11	1-2	1-5	1-9	2-2	2-6	2-8	2-10	3-0
175.00	1-0	1-3	1-7	2-0	2-5	2-11	3-4	3-8	3-11	4-2
200.00	1-4	1-7	2-0	2-7	3-2	3-10	4-5	4-9	5-1	5-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.22

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10
125.00	0-7	0-7	0-8	0-9	0-11	1-0	1-1	1-2	1-3	1-4
150.00	0-9	0-11	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-11
175.00	1-1	1-3	1-4	1-6	1-9	1-11	2-1	2-3	2-5	2-7
200.00	1-5	1-7	1-10	2-0	2-3	2-6	2-8	2-11	3-2	3-4
225.00	1-9	2-0	2-3	2-7	2-10	3-2	3-5	3-8	4-0	4-3
250.00	2-2	2-6	2-10	3-2	3-6	3-10	4-3	4-7	4-11	5-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11
125.00	0-7	0-8	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
150.00	0-11	1-0	1-2	1-3	1-5	1-7	1-8	1-10	1-11	2-0
175.00	1-2	1-4	1-7	1-9	1-11	2-2	2-4	2-6	2-7	2-8
200.00	1-7	1-10	2-0	2-3	2-6	2-9	3-0	3-3	3-5	3-6
225.00	2-0	2-3	2-7	2-11	3-3	3-6	3-10	4-1	4-4	4-6
250.00	2-5	2-10	3-2	3-7	4-0	4-4	4-8	5-1	5-4	5-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.23

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6
175.00	1-2	1-3	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-1
200.00	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-5	2-7	2-8
225.00	2-0	2-2	2-4	2-6	2-8	2-9	2-11	3-1	3-3	3-5
250.00	2-5	2-7	2-10	3-0	3-3	3-5	3-8	3-10	4-0	4-2
275.00	2-11	3-2	3-5	3-8	3-11	4-2	4-5	4-8	4-10	5-1
300.00	3-6	3-9	4-1	4-5	4-8	5-0	5-3	5-6	5-9	6-1
325.00	4-1	4-5	4-9	5-2	5-6	5-10	6-2	6-6	6-10	7-1
350.00	4-9	5-2	5-7	5-11	6-4	6-9	7-2	7-6	7-11	8-3
375.00	5-5	5-11	6-4	6-10	7-4	7-9	8-2	8-7	9-1	9-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7
175.00	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-2
200.00	1-8	1-10	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-10
225.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
250.00	2-8	2-11	3-1	3-4	3-6	3-9	3-11	4-2	4-4	4-6
275.00	3-3	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-5
300.00	3-10	4-2	4-6	4-10	5-1	5-5	5-8	5-11	6-3	6-5
325.00	4-6	4-11	5-3	5-8	6-0	6-4	6-8	7-0	7-4	7-7
350.00	5-3	5-8	6-1	6-6	6-11	7-4	7-9	8-1	8-6	8-9
375.00	6-0	6-6	7-0	7-6	8-0	8-5	8-11	9-4	9-9	10-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.24

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
225.00	2-1	2-2	2-4	2-5	2-6	2-8	2-9	2-10	2-11	3-0
250.00	2-7	2-9	2-10	3-0	3-1	3-3	3-4	3-6	3-7	3-9
275.00	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-4	4-6
300.00	3-9	3-11	4-1	4-4	4-6	4-8	4-10	5-0	5-2	5-4
325.00	4-4	4-7	4-10	5-1	5-3	5-6	5-8	5-11	6-1	6-4
350.00	5-1	5-4	5-7	5-10	6-1	6-4	6-7	6-10	7-1	7-4
375.00	5-10	6-1	6-5	6-9	7-0	7-4	7-7	7-10	8-1	8-5
400.00	6-7	6-11	7-4	7-8	8-0	8-4	8-7	8-11	9-3	9-7
425.00	7-5	7-10	8-3	8-7	9-0	9-4	9-9	10-1	10-5	10-9
450.00	8-4	8-10	9-3	9-8	10-1	10-6	10-11	11-4	11-8	12-1
475.00	9-4	9-10	10-4	10-9	11-3	11-8	12-2	12-7	13-0	13-6
500.00	10-4	10-10	11-5	11-11	12-6	13-0	13-6	14-0	14-5	14-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6
225.00	2-3	2-4	2-6	2-7	2-8	2-10	2-11	3-0	3-1	3-2
250.00	2-9	2-11	3-1	3-2	3-4	3-5	3-7	3-8	3-10	3-11
275.00	3-4	3-6	3-8	3-10	4-0	4-2	4-4	4-6	4-7	4-9
300.00	4-0	4-2	4-5	4-7	4-9	5-0	5-2	5-4	5-6	5-8
325.00	4-8	4-11	5-2	5-5	5-7	5-10	6-1	6-3	6-5	6-8
350.00	5-5	5-8	6-0	6-3	6-6	6-9	7-0	7-3	7-6	7-9
375.00	6-3	6-7	6-10	7-2	7-6	7-9	8-1	8-4	8-7	8-10
400.00	7-1	7-5	7-10	8-2	8-6	8-10	9-2	9-6	9-9	10-1
425.00	8-0	8-5	8-10	9-3	9-7	10-0	10-4	10-8	11-1	11-5
450.00	9-0	9-5	9-11	10-4	10-9	11-2	11-7	12-0	12-5	12-9
475.00	10-0	10-6	11-0	11-6	12-0	12-6	12-11	13-4	13-10	14-3
500.00	11-1	11-8	12-3	12-9	13-3	13-10	14-4	14-10	15-4	15-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.25

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-8	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-5	3-6
275.00	3-3	3-4	3-6	3-7	3-8	3-9	3-11	4-0	4-1	4-2
300.00	3-10	4-0	4-1	4-3	4-5	4-6	4-8	4-9	4-10	5-0
325.00	4-6	4-8	4-10	5-0	5-2	5-3	5-5	5-7	5-9	5-10
350.00	5-3	5-5	5-7	5-9	6-0	6-2	6-4	6-6	6-8	6-10
375.00	6-0	6-3	6-5	6-8	6-10	7-1	7-3	7-5	7-7	7-10
400.00	6-10	7-1	7-4	7-7	7-9	8-0	8-3	8-5	8-8	8-11
425.00	7-9	8-0	8-3	8-6	8-10	9-1	9-4	9-7	9-9	10-0
450.00	8-8	9-0	9-3	9-7	9-10	10-2	10-5	10-8	11-0	11-3
475.00	9-8	10-0	10-4	10-8	11-0	11-4	11-7	11-11	12-3	12-6
500.00	10-8	11-1	11-5	11-10	12-2	12-6	12-10	13-3	13-7	13-11
525.00	11-10	12-3	12-8	13-0	13-5	13-10	14-2	14-7	14-11	15-4
550.00	12-11	13-5	13-10	14-4	14-9	15-2	15-7	16-0	16-5	16-10
575.00	14-2	14-8	15-2	15-8	16-1	16-7	17-0	17-6	17-11	18-4
600.00	15-5	16-0	16-6	17-0	17-6	18-1	18-7	19-0	19-6	20-0
625.00	16-9	17-4	17-11	18-6	19-0	19-7	20-2	20-8	21-2	21-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7
275.00	3-5	3-6	3-8	3-9	3-10	4-0	4-1	4-2	4-3	4-5
300.00	4-1	4-2	4-4	4-6	4-7	4-9	4-10	5-0	5-1	5-3
325.00	4-9	4-11	5-1	5-3	5-5	5-7	5-8	5-10	6-0	6-1
350.00	5-6	5-9	5-11	6-1	6-3	6-5	6-7	6-9	6-11	7-1
375.00	6-4	6-7	6-9	7-0	7-2	7-5	7-7	7-9	8-0	8-2
400.00	7-3	7-6	7-8	7-11	8-2	8-5	8-8	8-10	9-1	9-3
425.00	8-2	8-5	8-8	9-0	9-3	9-6	9-9	10-0	10-3	10-6
450.00	9-1	9-5	9-9	10-1	10-4	10-8	10-11	11-2	11-6	11-9
475.00	10-2	10-6	10-10	11-2	11-6	11-10	12-2	12-6	12-9	13-1
500.00	11-3	11-8	12-0	12-5	12-9	13-2	13-6	13-10	14-2	14-6
525.00	12-5	12-10	13-3	13-8	14-1	14-6	14-10	15-3	15-7	16-0
550.00	13-8	14-1	14-7	15-0	15-6	15-11	16-4	16-9	17-2	17-7
575.00	14-11	15-5	15-11	16-5	16-11	17-5	17-10	18-4	18-9	19-2
600.00	16-3	16-9	17-4	17-11	18-5	18-11	19-5	19-11	20-5	20-11
625.00	17-7	18-3	18-10	19-5	20-0	20-6	21-1	21-7	22-2	22-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.26

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	0.4	2312	0.37	2500*
25	0	0	0	0.52	0.29	2234	0.27	2445
30	0	0	0	0.52	0.32	2041	0.28	2290
40	0	0	0	0.52	0.39	1672	0.33	1981
50	0	0	0	0.52	0.49	1339	0.39	1680
60	0	0	0	0.52	0.61	1062	0.47	1394
70	0	0	0	0.52	0.76	855	0.57	1140
80	0	0	0	0.52	0.92	709	0.7	932
90	0	0	0	0.52	1.01	643	0.84	774
100	0	0	0	0.52	1.09	599	0.99	659
110	0	0	0	0.52	1.16	560	1.13	575
120	0	0	0	0.52	1.24	526	1.24	526
130	0	0	0	0.52	1.31	495	1.31	495
167	0	0	0	0.52	1.58	411	1.58	411
212	0	0	0	0.52	1.89	345	1.89	345

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	1.63	2261	1.47	2500*
25	0	0	0	0.52	1.3	2006	1.13	2309
30	0	0	0	0.52	1.39	1864	1.19	2178
40	0	0	0	0.52	1.61	1613	1.35	1929
50	0	0	0	0.52	1.85	1407	1.53	1703
60	0	0	0	0.52	2.1	1241	1.73	1504
70	0	0	0	0.52	2.35	1109	1.95	1335
80	0	0	0	0.52	2.59	1004	2.18	1196
90	0	0	0	0.52	2.83	920	2.41	1081
100	0	0	0	0.52	3.02	861	2.64	987
110	0	0	0	0.52	3.14	829	2.86	910
120	0	0	0	0.52	3.26	798	3.08	845
130	0	0	0	0.52	3.38	770	3.29	791
167	0	0	0	0.52	3.81	683	3.8	684
212	0	0	0	0.52	4.31	605	4.3	605

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.27

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.737	3.64	2278	3.32	2500*
25	0	0	0	0.52	3.12	1873	2.71	2156
30	0	0	0	0.52	3.28	1782	2.84	2059
40	0	0	0	0.52	3.61	1621	3.11	1879
50	0	0	0	0.52	3.94	1487	3.4	1721
60	0	0	0	0.52	4.26	1374	3.7	1584
70	0	0	0	0.52	4.58	1279	3.99	1465
80	0	0	0	0.52	4.89	1198	4.29	1363
90	0	0	0	0.52	5.19	1128	4.59	1275
100	0	0	0	0.52	5.48	1068	4.88	1199
110	0	0	0	0.52	5.74	1021	5.17	1133
120	0	0	0	0.52	5.89	994	5.45	1075
130	0	0	0	0.52	6.05	969	5.72	1024
167	0	0	0	0.52	6.61	887	6.59	889
212	0	0	0	0.52	7.26	807	7.25	809

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.737	6.37	2314	5.9	2500*
25	0	0	0	0.52	5.74	1813	5.11	2037
30	0	0	0	0.52	5.94	1753	5.29	1969
40	0	0	0	0.52	6.33	1645	5.64	1845
50	0	0	0	0.52	6.71	1551	6	1734
60	0	0	0	0.52	7.09	1469	6.36	1637
70	0	0	0	0.52	7.46	1396	6.72	1550
80	0	0	0	0.52	7.82	1332	7.07	1473
90	0	0	0	0.52	8.17	1276	7.42	1404
100	0	0	0	0.52	8.51	1225	7.76	1343
110	0	0	0	0.52	8.84	1179	8.09	1288
120	0	0	0	0.52	9.13	1141	8.42	1238
130	0	0	0	0.52	9.31	1119	8.74	1193
167	0	0	0	0.52	9.98	1044	9.86	1057
212	0	0	0	0.52	10.77	969	10.74	971

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.28

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.737	9.82	2348	9.22	2500*
25	0	0	0	0.52	9.11	1786	8.31	1957
30	0	0	0	0.52	9.33	1744	8.52	1909
40	0	0	0	0.52	9.76	1667	8.93	1822
50	0	0	0	0.52	10.18	1598	9.34	1743
60	0	0	0	0.52	10.6	1536	9.74	1671
70	0	0	0	0.52	11	1480	10.14	1606
80	0	0	0	0.52	11.4	1429	10.53	1546
90	0	0	0	0.52	11.79	1382	10.91	1492
100	0	0	0	0.52	12.16	1339	11.29	1442
110	0	0	0	0.52	12.53	1300	11.66	1397
120	0	0	0	0.52	12.9	1263	12.03	1354
130	0	0	0	0.52	13.19	1235	12.38	1315
167	0	0	0	0.52	13.95	1168	13.65	1194
212	0	0	0	0.52	14.85	1098	14.82	1101

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.29

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8
100.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-2
125.00	0-5	0-5	0-6	0-7	0-9	0-11	1-1	1-4	1-7	1-9
150.00	0-7	0-8	0-9	0-10	1-1	1-3	1-7	1-11	2-3	2-7
175.00	0-9	0-10	1-0	1-2	1-5	1-9	2-2	2-7	3-0	3-6
200.00	1-0	1-2	1-4	1-7	1-10	2-3	2-9	3-4	3-11	4-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-7	0-8
100.00	0-3	0-4	0-5	0-6	0-7	0-9	0-11	1-0	1-1	1-2
125.00	0-5	0-6	0-7	0-9	0-11	1-2	1-5	1-7	1-8	1-10
150.00	0-7	0-9	0-10	1-1	1-5	1-9	2-1	2-3	2-5	2-7
175.00	0-10	1-0	1-2	1-6	1-10	2-4	2-10	3-1	3-4	3-7
200.00	1-1	1-3	1-7	1-11	2-5	3-1	3-8	4-1	4-4	4-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.30

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9
125.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
150.00	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-6	1-7
175.00	0-10	0-11	1-0	1-2	1-4	1-6	1-8	1-10	2-0	2-2
200.00	1-1	1-2	1-4	1-6	1-9	1-11	2-2	2-5	2-8	2-10
225.00	1-4	1-6	1-8	1-11	2-2	2-6	2-9	3-1	3-4	3-7
250.00	1-8	1-10	2-1	2-5	2-8	3-1	3-5	3-9	4-1	4-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-9
125.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
150.00	0-8	0-9	0-11	1-0	1-2	1-4	1-5	1-7	1-8	1-9
175.00	0-11	1-1	1-3	1-5	1-7	1-10	2-0	2-2	2-4	2-5
200.00	1-2	1-5	1-7	1-10	2-1	2-4	2-7	2-10	3-0	3-2
225.00	1-6	1-9	2-0	2-4	2-8	3-0	3-3	3-7	3-10	4-0
250.00	1-11	2-2	2-6	2-11	3-3	3-8	4-1	4-5	4-9	4-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.31

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
175.00	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8	1-9
200.00	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-4
225.00	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11
250.00	1-10	2-0	2-2	2-4	2-7	2-9	3-0	3-2	3-5	3-7
275.00	2-2	2-5	2-7	2-10	3-1	3-4	3-7	3-10	4-1	4-4
300.00	2-7	2-10	3-1	3-5	3-8	4-0	4-4	4-7	4-11	5-2
325.00	3-0	3-4	3-8	4-0	4-4	4-8	5-0	5-5	5-9	6-1
350.00	3-6	3-10	4-3	4-8	5-0	5-5	5-10	6-3	6-8	7-0
375.00	4-1	4-5	4-10	5-4	5-9	6-3	6-9	7-2	7-8	8-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-4	1-5
175.00	1-0	1-1	1-3	1-4	1-5	1-7	1-8	1-9	1-10	1-11
200.00	1-4	1-6	1-7	1-9	1-11	2-0	2-2	2-4	2-5	2-7
225.00	1-8	1-10	2-0	2-3	2-5	2-7	2-9	2-11	3-1	3-3
250.00	2-1	2-3	2-6	2-9	3-0	3-2	3-5	3-7	3-10	4-0
275.00	2-6	2-9	3-0	3-4	3-7	3-10	4-1	4-4	4-7	4-10
300.00	3-0	3-3	3-7	3-11	4-3	4-7	4-11	5-2	5-6	5-9
325.00	3-6	3-10	4-3	4-7	5-0	5-5	5-9	6-1	6-5	6-9
350.00	4-0	4-6	4-11	5-4	5-10	6-3	6-8	7-1	7-6	7-10
375.00	4-8	5-2	5-8	6-2	6-8	7-2	7-8	8-1	8-7	9-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.32

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0
225.00	1-7	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-7
250.00	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-2
275.00	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10
300.00	2-9	3-0	3-2	3-5	3-7	3-9	4-0	4-2	4-4	4-7
325.00	3-3	3-6	3-9	4-0	4-2	4-5	4-8	4-11	5-1	5-4
350.00	3-9	4-1	4-4	4-7	4-10	5-2	5-5	5-8	5-11	6-2
375.00	4-4	4-8	5-0	5-3	5-7	5-11	6-3	6-6	6-10	7-1
400.00	4-11	5-3	5-8	6-0	6-4	6-9	7-1	7-5	7-9	8-1
425.00	5-7	6-0	6-4	6-9	7-2	7-7	8-0	8-4	8-9	9-2
450.00	6-3	6-8	7-2	7-7	8-1	8-6	8-11	9-5	9-10	10-3
475.00	7-0	7-5	7-11	8-6	9-0	9-6	10-0	10-6	10-11	11-5
500.00	7-9	8-3	8-10	9-5	9-11	10-6	11-1	11-7	12-1	12-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-2	2-3
225.00	1-9	1-11	2-0	2-1	2-3	2-4	2-6	2-7	2-8	2-10
250.00	2-2	2-4	2-6	2-7	2-9	2-11	3-1	3-2	3-4	3-5
275.00	2-7	2-10	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2
300.00	3-1	3-4	3-7	3-9	4-0	4-2	4-5	4-7	4-9	5-0
325.00	3-8	3-11	4-2	4-5	4-8	4-11	5-2	5-5	5-7	5-10
350.00	4-3	4-7	4-10	5-2	5-5	5-9	6-0	6-3	6-6	6-9
375.00	4-10	5-3	5-7	5-11	6-3	6-7	6-10	7-2	7-6	7-9
400.00	5-7	5-11	6-4	6-9	7-1	7-5	7-10	8-2	8-6	8-10
425.00	6-3	6-8	7-2	7-7	8-0	8-5	8-10	9-3	9-7	10-0
450.00	7-0	7-6	8-0	8-6	9-0	9-5	9-11	10-4	10-9	11-2
475.00	7-10	8-4	8-11	9-6	10-0	10-6	11-0	11-6	12-0	12-6
500.00	8-8	9-3	9-11	10-6	11-1	11-8	12-3	12-9	13-4	13-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.33

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-0	2-2	2-3	2-4	2-5	2-6	2-8	2-9	2-10	2-11
275.00	2-5	2-7	2-8	2-10	2-11	3-1	3-2	3-4	3-5	3-6
300.00	2-11	3-1	3-3	3-4	3-6	3-8	3-9	3-11	4-1	4-2
325.00	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-7	4-9	4-11
350.00	4-0	4-2	4-5	4-7	4-9	5-0	5-2	5-4	5-6	5-9
375.00	4-7	4-10	5-0	5-3	5-6	5-8	5-11	6-2	6-4	6-7
400.00	5-2	5-5	5-9	6-0	6-3	6-6	6-9	7-0	7-3	7-6
425.00	5-10	6-2	6-5	6-9	7-0	7-4	7-7	7-11	8-2	8-5
450.00	6-7	6-11	7-3	7-7	7-11	8-3	8-6	8-10	9-2	9-5
475.00	7-4	7-8	8-1	8-5	8-9	9-2	9-6	9-10	10-2	10-6
500.00	8-1	8-6	8-11	9-4	9-9	10-2	10-6	10-11	11-3	11-8
525.00	8-11	9-5	9-10	10-4	10-9	11-2	11-7	12-0	12-5	12-10
550.00	9-10	10-4	10-10	11-4	11-9	12-3	12-9	13-2	13-8	14-1
575.00	10-9	11-3	11-10	12-4	12-11	13-5	13-11	14-5	14-11	15-5
600.00	11-8	12-3	12-10	13-5	14-0	14-7	15-2	15-9	16-3	16-10
625.00	12-8	13-4	14-0	14-7	15-3	15-10	16-5	17-1	17-8	18-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-3	2-4	2-5	2-7	2-8	2-9	2-10	2-11	3-0	3-2
275.00	2-8	2-10	2-11	3-1	3-2	3-4	3-5	3-7	3-8	3-9
300.00	3-2	3-4	3-6	3-8	3-10	4-0	4-1	4-3	4-5	4-6
325.00	3-9	3-11	4-1	4-4	4-6	4-8	4-10	5-0	5-2	5-4
350.00	4-4	4-7	4-9	5-0	5-2	5-5	5-7	5-9	5-11	6-2
375.00	5-0	5-3	5-6	5-9	6-0	6-2	6-5	6-8	6-10	7-1
400.00	5-8	6-0	6-3	6-6	6-9	7-0	7-4	7-6	7-9	8-0
425.00	6-5	6-9	7-1	7-4	7-8	7-11	8-3	8-6	8-9	9-1
450.00	7-2	7-7	7-11	8-3	8-7	8-11	9-3	9-7	9-10	10-2
475.00	8-0	8-5	8-10	9-2	9-7	9-11	10-3	10-8	11-0	11-4
500.00	8-11	9-4	9-9	10-2	10-7	11-0	11-5	11-9	12-2	12-6
525.00	9-10	10-3	10-9	11-3	11-8	12-2	12-7	13-0	13-5	13-10
550.00	10-9	11-3	11-10	12-4	12-10	13-4	13-10	14-3	14-9	15-2
575.00	11-9	12-4	12-11	13-6	14-0	14-7	15-1	15-7	16-1	16-7
600.00	12-10	13-5	14-1	14-8	15-3	15-10	16-5	17-0	17-6	18-1
625.00	13-11	14-7	15-3	15-11	16-7	17-2	17-10	18-5	19-0	19-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.34

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	0.34	2695	0.31	3000*
25	0	0	0	0.52	0.25	2636	0.22	2962
30	0	0	0	0.52	0.27	2437	0.23	2808
40	0	0	0	0.52	0.32	2046	0.26	2497
50	0	0	0	0.52	0.39	1677	0.3	2185
60	0	0	0	0.52	0.48	1343	0.35	1876
70	0	0	0	0.52	0.61	1066	0.41	1577
80	0	0	0	0.52	0.76	857	0.5	1300
90	0	0	0	0.52	0.85	766	0.61	1060
100	0	0	0	0.52	0.92	709	0.75	869
110	0	0	0	0.52	0.99	657	0.89	727
120	0	0	0	0.52	1.06	612	1.04	625
130	0	0	0	0.52	1.14	572	1.13	574
167	0	0	0	0.52	1.41	460	1.41	461
212	0	0	0	0.52	1.73	376	1.73	376

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	1.39	2657	1.23	3000*
25	0	0	0	0.52	1.06	2449	0.91	2859
30	0	0	0	0.52	1.14	2282	0.96	2718
40	0	0	0	0.52	1.32	1975	1.07	2440
50	0	0	0	0.52	1.52	1707	1.2	2173
60	0	0	0	0.52	1.75	1483	1.35	1923
70	0	0	0	0.52	2	1301	1.53	1697
80	0	0	0	0.52	2.25	1157	1.74	1498
90	0	0	0	0.52	2.5	1042	1.96	1330
100	0	0	0	0.52	2.69	966	2.18	1191
110	0	0	0	0.52	2.81	926	2.42	1076
120	0	0	0	0.52	2.93	888	2.65	983
130	0	0	0	0.52	3.05	853	2.87	906
167	0	0	0	0.52	3.49	746	3.48	749
212	0	0	0	0.52	4.01	650	3.99	652

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.35

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	3.11	2669	2.76	3000*
25	0	0	0	0.52	2.54	2300	2.15	2722
30	0	0	0	0.52	2.69	2177	2.25	2602
40	0	0	0	0.52	2.99	1956	2.47	2373
50	0	0	0	0.52	3.31	1768	2.71	2161
60	0	0	0	0.52	3.64	1609	2.97	1969
70	0	0	0	0.52	3.96	1477	3.25	1800
80	0	0	0	0.52	4.29	1365	3.55	1651
90	0	0	0	0.52	4.61	1271	3.84	1523
100	0	0	0	0.52	4.91	1192	4.15	1412
110	0	0	0	0.52	5.19	1129	4.45	1317
120	0	0	0	0.52	5.35	1096	4.74	1235
130	0	0	0	0.52	5.5	1064	5.03	1164
167	0	0	0	0.52	6.08	964	6.04	970
212	0	0	0	0.52	6.75	868	6.73	872

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	5.45	2706	4.91	3000*
25	0	0	0	0.52	4.71	2212	4.02	2586
30	0	0	0	0.52	4.9	2123	4.18	2491
40	0	0	0	0.52	5.3	1965	4.5	2312
50	0	0	0	0.52	5.69	1828	4.84	2150
60	0	0	0	0.52	6.09	1710	5.19	2005
70	0	0	0	0.52	6.48	1608	5.55	1876
80	0	0	0	0.52	6.86	1518	5.91	1762
90	0	0	0	0.52	7.23	1440	6.27	1660
100	0	0	0	0.52	7.59	1371	6.63	1570
110	0	0	0	0.52	7.95	1310	6.98	1491
120	0	0	0	0.52	8.27	1259	7.33	1420
130	0	0	0	0.52	8.46	1231	7.68	1357
167	0	0	0	0.52	9.15	1139	8.89	1172
212	0	0	0	0.52	9.97	1046	9.92	1051

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.36

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.737	8.39	2747	7.68	3000*
25	0	0	0	0.52	7.51	2165	6.57	2473
30	0	0	0	0.52	7.74	2101	6.77	2401
40	0	0	0	0.52	8.2	1984	7.18	2265
50	0	0	0	0.52	8.65	1880	7.59	2142
60	0	0	0	0.52	9.1	1789	8.01	2032
70	0	0	0	0.52	9.53	1707	8.42	1932
80	0	0	0	0.52	9.96	1634	8.84	1841
90	0	0	0	0.52	10.38	1568	9.25	1760
100	0	0	0	0.52	10.79	1509	9.65	1686
110	0	0	0	0.52	11.19	1455	10.05	1619
120	0	0	0	0.52	11.58	1406	10.45	1558
130	0	0	0	0.52	11.93	1366	10.84	1503
167	0	0	0	0.52	12.72	1281	12.21	1334
212	0	0	0	0.52	13.66	1194	13.6	1199

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-11
125.00	0-4	0-4	0-5	0-6	0-6	0-8	0-9	1-0	1-2	1-5
150.00	0-6	0-6	0-7	0-8	0-9	0-11	1-2	1-5	1-8	2-0
175.00	0-8	0-9	0-10	0-11	1-1	1-3	1-6	1-11	2-4	2-9
200.00	0-10	0-11	1-0	1-2	1-5	1-8	2-0	2-5	3-0	3-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6	0-7
100.00	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-10	0-11	1-0
125.00	0-4	0-5	0-6	0-7	0-9	0-11	1-2	1-4	1-5	1-7
150.00	0-6	0-7	0-9	0-10	1-1	1-4	1-8	1-11	2-1	2-3
175.00	0-8	0-10	1-0	1-2	1-6	1-10	2-4	2-7	2-10	3-0
200.00	0-11	1-1	1-3	1-7	1-11	2-5	3-0	3-5	3-8	4-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.38

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-7
125.00	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11
150.00	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-4
175.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-8	1-10
200.00	0-10	0-11	1-1	1-2	1-4	1-6	1-9	1-11	2-2	2-5
225.00	1-1	1-3	1-4	1-6	1-9	1-11	2-2	2-6	2-9	3-1
250.00	1-4	1-6	1-8	1-10	2-1	2-5	2-9	3-1	3-5	3-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-8
125.00	0-5	0-5	0-6	0-7	0-8	0-9	0-11	1-0	1-1	1-1
150.00	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-5	1-6	1-7
175.00	0-9	0-10	1-0	1-2	1-4	1-6	1-9	1-11	2-1	2-2
200.00	1-0	1-2	1-4	1-6	1-9	2-0	2-3	2-6	2-8	2-10
225.00	1-3	1-5	1-8	1-11	2-3	2-6	2-10	3-2	3-5	3-7
250.00	1-7	1-9	2-1	2-5	2-9	3-1	3-6	3-11	4-2	4-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.39

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1
175.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-6
200.00	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-9	1-10	2-0
225.00	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-6
250.00	1-5	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-11	3-1
275.00	1-9	1-11	2-1	2-3	2-6	2-9	3-0	3-3	3-6	3-9
300.00	2-1	2-3	2-6	2-8	3-0	3-3	3-7	3-10	4-2	4-5
325.00	2-5	2-8	2-11	3-2	3-6	3-10	4-2	4-6	4-10	5-3
350.00	2-10	3-1	3-4	3-8	4-1	4-5	4-10	5-3	5-8	6-1
375.00	3-3	3-6	3-10	4-3	4-8	5-1	5-6	6-0	6-6	6-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
175.00	0-10	0-11	1-0	1-2	1-3	1-4	1-6	1-7	1-8	1-9
200.00	1-1	1-2	1-4	1-6	1-7	1-9	1-11	2-1	2-2	2-4
225.00	1-4	1-6	1-8	1-10	2-1	2-3	2-5	2-7	2-9	2-11
250.00	1-8	1-10	2-1	2-4	2-6	2-9	3-0	3-2	3-5	3-7
275.00	2-0	2-3	2-6	2-9	3-1	3-4	3-7	3-10	4-2	4-4
300.00	2-5	2-8	3-0	3-4	3-8	4-0	4-3	4-7	4-11	5-2
325.00	2-10	3-2	3-6	3-11	4-3	4-8	5-0	5-5	5-9	6-1
350.00	3-3	3-8	4-1	4-6	4-11	5-5	5-10	6-3	6-8	7-1
375.00	3-9	4-2	4-8	5-2	5-8	6-2	6-8	7-2	7-8	8-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.40

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-0	1-1	1-1	1-3	1-4	1-5	1-6	1-7	1-8	1-9
225.00	1-3	1-4	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-3
250.00	1-6	1-8	1-9	1-11	2-0	2-2	2-4	2-5	2-7	2-9
275.00	1-10	2-0	2-2	2-3	2-5	2-7	2-10	3-0	3-2	3-4
300.00	2-2	2-4	2-6	2-9	2-11	3-1	3-4	3-6	3-9	3-11
325.00	2-7	2-9	3-0	3-2	3-5	3-8	3-11	4-2	4-5	4-7
350.00	3-0	3-2	3-5	3-8	4-0	4-3	4-6	4-10	5-1	5-4
375.00	3-5	3-8	3-11	4-3	4-7	4-11	5-2	5-6	5-10	6-2
400.00	3-10	4-2	4-6	4-10	5-2	5-7	5-11	6-3	6-8	7-0
425.00	4-4	4-9	5-1	5-6	5-10	6-3	6-8	7-1	7-6	7-11
450.00	4-11	5-3	5-8	6-2	6-7	7-0	7-6	7-11	8-5	8-10
475.00	5-6	5-11	6-4	6-10	7-4	7-10	8-4	8-10	9-4	9-10
500.00	6-1	6-6	7-0	7-7	8-1	8-8	9-3	9-10	10-4	10-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-0
225.00	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-3	2-5	2-6
250.00	1-9	1-11	2-1	2-3	2-5	2-6	2-8	2-10	3-0	3-1
275.00	2-2	2-4	2-6	2-8	2-11	3-1	3-3	3-5	3-7	3-9
300.00	2-6	2-9	3-0	3-2	3-5	3-8	3-10	4-1	4-3	4-6
325.00	3-0	3-3	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3
350.00	3-5	3-9	4-1	4-4	4-8	4-11	5-3	5-6	5-10	6-1
375.00	4-0	4-4	4-8	5-0	5-4	5-8	6-0	6-4	6-8	7-0
400.00	4-6	4-11	5-4	5-8	6-1	6-6	6-10	7-3	7-7	7-11
425.00	5-1	5-6	6-0	6-5	6-10	7-4	7-9	8-2	8-7	9-0
450.00	5-9	6-2	6-8	7-2	7-8	8-2	8-8	9-2	9-7	10-1
475.00	6-4	6-11	7-6	8-0	8-7	9-2	9-8	10-2	10-9	11-3
500.00	7-1	7-8	8-3	8-11	9-6	10-1	10-9	11-4	11-10	12-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.41

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-7	1-8	1-10	1-11	2-0	2-1	2-3	2-4	2-5	2-6
275.00	1-11	2-1	2-2	2-4	2-5	2-7	2-8	2-10	2-11	3-0
300.00	2-4	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-6	3-7
325.00	2-8	2-10	3-0	3-2	3-5	3-7	3-9	3-11	4-1	4-3
350.00	3-1	3-4	3-6	3-9	3-11	4-2	4-4	4-6	4-9	4-11
375.00	3-7	3-10	4-0	4-3	4-6	4-9	5-0	5-2	5-5	5-8
400.00	4-1	4-4	4-7	4-10	5-1	5-5	5-8	5-11	6-2	6-5
425.00	4-7	4-11	5-2	5-6	5-9	6-1	6-5	6-8	7-0	7-3
450.00	5-2	5-6	5-10	6-2	6-6	6-10	7-2	7-6	7-10	8-2
475.00	5-9	6-1	6-6	6-10	7-3	7-7	8-0	8-4	8-9	9-1
500.00	6-5	6-9	7-2	7-7	8-0	8-5	8-10	9-3	9-8	10-1
525.00	7-0	7-6	7-11	8-4	8-10	9-3	9-9	10-2	10-8	11-1
550.00	7-9	8-2	8-8	9-2	9-8	10-2	10-8	11-2	11-8	12-2
575.00	8-5	9-0	9-6	10-0	10-7	11-2	11-8	12-3	12-9	13-4
600.00	9-2	9-9	10-4	10-11	11-6	12-2	12-9	13-4	13-11	14-6
625.00	10-0	10-7	11-3	11-10	12-6	13-2	13-10	14-5	15-1	15-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-10	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-8	2-10
275.00	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-2	3-3	3-5
300.00	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-0
325.00	3-1	3-3	3-6	3-8	3-10	4-0	4-2	4-5	4-7	4-9
350.00	3-7	3-10	4-0	4-3	4-5	4-8	4-11	5-1	5-3	5-6
375.00	4-1	4-4	4-7	4-10	5-1	5-4	5-7	5-10	6-1	6-4
400.00	4-8	4-11	5-3	5-6	5-10	6-1	6-4	6-8	6-11	7-2
425.00	5-3	5-7	5-11	6-3	6-7	6-11	7-2	7-6	7-10	8-1
450.00	5-11	6-3	6-8	7-0	7-4	7-9	8-1	8-5	8-9	9-1
475.00	6-7	7-0	7-5	7-10	8-3	8-7	9-0	9-4	9-9	10-1
500.00	7-3	7-9	8-2	8-8	9-1	9-6	10-0	10-5	10-9	11-2
525.00	8-0	8-6	9-0	9-6	10-0	10-6	11-0	11-5	11-11	12-4
550.00	8-10	9-4	9-11	10-6	11-0	11-6	12-1	12-7	13-1	13-7
575.00	9-8	10-3	10-10	11-5	12-0	12-7	13-2	13-9	14-3	14-10
600.00	10-6	11-2	11-10	12-6	13-1	13-9	14-4	14-11	15-7	16-1
625.00	11-5	12-1	12-10	13-6	14-3	14-11	15-7	16-3	16-10	17-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.42

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.591	1.99	1000	1.99	1000*
0	0	0	0	0.52	1.81	359	1.77	368
30	0	0	0	0.52	2.12	306	2.09	311
40	0	0	0	0.52	2.21	294	2.18	298
50	0	0	0	0.52	2.3	283	2.27	287
60	0	0	0	0.52	2.39	273	2.35	277
70	0	0	0	0.52	2.46	265	2.43	268
80	0	0	0	0.52	2.51	260	2.51	260
90	0	0	0	0.52	2.56	255	2.56	255
100	0	0	0	0.52	2.61	250	2.61	250
110	0	0	0	0.52	2.66	245	2.66	245
120	0	0	0	0.52	2.71	241	2.71	241
130	0	0	0	0.52	2.76	237	2.75	237
167	0	0	0	0.52	2.93	223	2.93	223
212	0	0	0	0.52	3.12	209	3.12	209

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.591	8.01	1000	8.01	1000*
0	0	0	0	0.52	7.83	334	7.78	336
30	0	0	0	0.52	8.15	321	8.11	323
40	0	0	0	0.52	8.24	318	8.21	319
50	0	0	0	0.52	8.34	314	8.3	315
60	0	0	0	0.52	8.44	310	8.4	312
70	0	0	0	0.52	8.53	307	8.49	309
80	0	0	0	0.52	8.6	305	8.58	305
90	0	0	0	0.52	8.66	302	8.66	303
100	0	0	0	0.52	8.72	300	8.72	300
110	0	0	0	0.52	8.78	298	8.78	298
120	0	0	0	0.52	8.84	296	8.84	296
130	0	0	0	0.52	8.9	294	8.9	294
167	0	0	0	0.52	9.12	287	9.12	287
212	0	0	0	0.52	9.38	280	9.38	280

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.43

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.591	18.16	1000	18.16	1000*
0	0	0	0	0.52	17.98	330	17.93	331
30	0	0	0	0.52	18.3	324	18.27	325
40	0	0	0	0.52	18.4	323	18.37	323
50	0	0	0	0.52	18.5	321	18.46	322
60	0	0	0	0.52	18.6	319	18.56	320
70	0	0	0	0.52	18.7	318	18.65	318
80	0	0	0	0.52	18.77	317	18.75	317
90	0	0	0	0.52	18.84	315	18.84	315
100	0	0	0	0.52	18.9	314	18.9	314
110	0	0	0	0.52	18.97	313	18.97	313
120	0	0	0	0.52	19.03	312	19.03	312
130	0	0	0	0.52	19.1	311	19.09	311
167	0	0	0	0.52	19.33	308	19.33	308
212	0	0	0	0.52	19.61	303	19.61	303

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.591	32.67	1000	32.67	1000*
0	0	0	0	0.52	32.49	329	32.44	329
30	0	0	0	0.52	32.81	326	32.78	326
40	0	0	0	0.52	32.91	325	32.88	325
50	0	0	0	0.52	33.01	324	32.97	324
60	0	0	0	0.52	33.11	323	33.07	323
70	0	0	0	0.52	33.21	322	33.17	322
80	0	0	0	0.52	33.29	321	33.26	321
90	0	0	0	0.52	33.35	320	33.35	321
100	0	0	0	0.52	33.42	320	33.42	320
110	0	0	0	0.52	33.49	319	33.49	319
120	0	0	0	0.52	33.55	319	33.55	319
130	0	0	0	0.52	33.62	318	33.62	318
167	0	0	0	0.52	33.86	316	33.86	316
212	0	0	0	0.52	34.15	313	34.15	313

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.44

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.591	51.87	1000	51.87	1000*
0	0	0	0	0.52	51.69	328	51.63	328
30	0	0	0	0.52	52.01	326	51.97	326
40	0	0	0	0.52	52.11	325	52.07	326
50	0	0	0	0.52	52.21	325	52.17	325
60	0	0	0	0.52	52.31	324	52.27	325
70	0	0	0	0.52	52.41	324	52.36	324
80	0	0	0	0.52	52.49	323	52.46	323
90	0	0	0	0.52	52.55	323	52.55	323
100	0	0	0	0.52	52.62	323	52.62	323
110	0	0	0	0.52	52.69	322	52.68	322
120	0	0	0	0.52	52.75	322	52.75	322
130	0	0	0	0.52	52.82	321	52.82	321
167	0	0	0	0.52	53.06	320	53.06	320
212	0	0	0	0.52	53.36	318	53.36	318

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.45

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6
100.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-7	2-8
125.00	3-2	3-3	3-5	3-7	3-8	3-10	3-11	4-0	4-1	4-2
150.00	4-6	4-9	4-11	5-1	5-4	5-6	5-8	5-9	5-11	6-0
175.00	6-2	6-5	6-8	6-11	7-2	7-5	7-8	7-10	8-0	8-2
200.00	8-0	8-5	8-9	9-1	9-5	9-9	10-1	10-3	10-6	10-8

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-2	1-3	1-4	1-4	1-5	1-5	1-5	1-6	1-6
100.00	2-0	2-1	2-3	2-4	2-5	2-5	2-6	2-7	2-7	2-8
125.00	3-2	3-4	3-6	3-7	3-9	3-10	3-11	4-0	4-1	4-2
150.00	4-7	4-9	5-0	5-2	5-4	5-6	5-8	5-9	5-11	6-0
175.00	6-3	6-6	6-10	7-1	7-4	7-6	7-8	7-10	8-0	8-2
200.00	8-2	8-6	8-11	9-3	9-7	9-10	10-1	10-3	10-6	10-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.46

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-0	2-0	2-1	2-1	2-1	2-1	2-2	2-2	2-2	2-2
125.00	3-2	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-5
150.00	4-6	4-7	4-7	4-8	4-9	4-9	4-10	4-10	4-11	4-11
175.00	6-2	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-8	6-9
200.00	8-0	8-1	8-2	8-4	8-5	8-6	8-7	8-8	8-9	8-9
225.00	10-2	10-3	10-5	10-6	10-8	10-9	10-10	11-0	11-1	11-1
250.00	12-6	12-8	12-10	13-0	13-2	13-3	13-5	13-7	13-8	13-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-0	2-0	2-1	2-1	2-1	2-2	2-2	2-2	2-2	2-2
125.00	3-2	3-2	3-3	3-3	3-3	3-4	3-4	3-5	3-5	3-5
150.00	4-6	4-7	4-8	4-8	4-9	4-10	4-10	4-10	4-11	4-11
175.00	6-2	6-3	6-4	6-5	6-5	6-6	6-7	6-8	6-8	6-9
200.00	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-9
225.00	10-2	10-4	10-5	10-7	10-8	10-10	10-11	11-0	11-1	11-1
250.00	12-7	12-9	12-11	13-1	13-2	13-4	13-5	13-7	13-8	13-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.47

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-6	4-7	4-7	4-7	4-7	4-8	4-8	4-8	4-8	4-9
175.00	6-2	6-2	6-3	6-3	6-4	6-4	6-4	6-5	6-5	6-5
200.00	8-1	8-1	8-2	8-2	8-3	8-3	8-4	8-4	8-5	8-5
225.00	10-2	10-3	10-4	10-4	10-5	10-6	10-6	10-7	10-7	10-8
250.00	12-7	12-8	12-9	12-10	12-10	12-11	13-0	13-1	13-1	13-2
275.00	15-3	15-4	15-5	15-6	15-7	15-8	15-9	15-10	15-10	15-11
300.00	18-2	18-3	18-4	18-6	18-7	18-8	18-9	18-10	18-11	19-0
325.00	21-4	21-5	21-7	21-8	21-10	21-11	22-0	22-2	22-2	22-3
350.00	24-9	24-11	25-1	25-2	25-4	25-5	25-7	25-8	25-9	25-10
375.00	28-6	28-7	28-9	28-11	29-1	29-3	29-5	29-6	29-7	29-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-6	4-7	4-7	4-7	4-8	4-8	4-8	4-8	4-8	4-9
175.00	6-2	6-2	6-3	6-3	6-4	6-4	6-4	6-5	6-5	6-5
200.00	8-1	8-1	8-2	8-2	8-3	8-3	8-4	8-4	8-5	8-5
225.00	10-3	10-3	10-4	10-5	10-5	10-6	10-6	10-7	10-7	10-8
250.00	12-7	12-8	12-9	12-10	12-11	13-0	13-0	13-1	13-1	13-2
275.00	15-3	15-4	15-5	15-6	15-7	15-8	15-9	15-10	15-10	15-11
300.00	18-2	18-4	18-5	18-6	18-7	18-8	18-9	18-10	18-11	19-0
325.00	21-5	21-6	21-7	21-9	21-10	22-0	22-1	22-2	22-2	22-3
350.00	24-10	24-11	25-1	25-3	25-4	25-6	25-7	25-8	25-9	25-10
375.00	28-6	28-8	28-10	29-0	29-2	29-4	29-5	29-6	29-7	29-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.48

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-1	8-2	8-2	8-2	8-3	8-3	8-3	8-3	8-4	8-4
225.00	10-3	10-4	10-4	10-4	10-5	10-5	10-6	10-6	10-6	10-6
250.00	12-8	12-9	12-9	12-10	12-10	12-11	12-11	12-11	13-0	13-0
275.00	15-5	15-5	15-6	15-6	15-7	15-7	15-8	15-8	15-9	15-9
300.00	18-4	18-4	18-5	18-6	18-6	18-7	18-8	18-8	18-9	18-9
325.00	21-6	21-7	21-8	21-8	21-9	21-10	21-11	21-11	22-0	22-0
350.00	25-0	25-1	25-1	25-2	25-3	25-4	25-5	25-6	25-6	25-7
375.00	28-8	28-9	28-10	28-11	29-0	29-1	29-2	29-3	29-4	29-5
400.00	32-8	32-9	32-11	33-0	33-1	33-2	33-3	33-4	33-5	33-6
425.00	36-11	37-1	37-2	37-3	37-5	37-6	37-7	37-8	37-9	37-10
450.00	41-5	41-7	41-8	41-10	41-11	42-1	42-2	42-4	42-5	42-6
475.00	46-3	46-5	46-6	46-8	46-10	46-11	47-1	47-3	47-4	47-5
500.00	51-4	51-6	51-7	51-9	51-11	52-1	52-3	52-5	52-6	52-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-1	8-2	8-2	8-2	8-3	8-3	8-3	8-3	8-4	8-4
225.00	10-3	10-4	10-4	10-5	10-5	10-5	10-6	10-6	10-6	10-6
250.00	12-9	12-9	12-9	12-10	12-10	12-11	12-11	12-11	13-0	13-0
275.00	15-5	15-5	15-6	15-6	15-7	15-7	15-8	15-8	15-9	15-9
300.00	18-4	18-5	18-5	18-6	18-7	18-7	18-8	18-8	18-9	18-9
325.00	21-6	21-7	21-8	21-9	21-10	21-10	21-11	21-11	22-0	22-0
350.00	25-0	25-1	25-2	25-3	25-4	25-4	25-5	25-6	25-6	25-7
375.00	28-9	28-10	28-11	29-0	29-1	29-2	29-3	29-3	29-4	29-5
400.00	32-9	32-10	32-11	33-0	33-1	33-3	33-3	33-4	33-5	33-6
425.00	37-0	37-1	37-2	37-4	37-5	37-6	37-7	37-8	37-9	37-10
450.00	41-6	41-7	41-9	41-11	42-0	42-2	42-3	42-4	42-5	42-6
475.00	46-4	46-5	46-7	46-9	46-10	47-0	47-1	47-3	47-4	47-5
500.00	51-4	51-6	51-8	51-10	52-0	52-2	52-3	52-5	52-6	52-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.49

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	12-10	12-10	12-11	12-11	12-11	12-11	13-0	13-0	13-0	13-0
275.00	15-6	15-7	15-7	15-8	15-8	15-8	15-9	15-9	15-9	15-9
300.00	18-6	18-7	18-7	18-7	18-8	18-8	18-9	18-9	18-9	18-10
325.00	21-9	21-9	21-10	21-10	21-11	21-11	22-0	22-0	22-1	22-1
350.00	25-3	25-3	25-4	25-5	25-5	25-6	25-6	25-7	25-7	25-8
375.00	29-0	29-1	29-1	29-2	29-3	29-3	29-4	29-5	29-5	29-5
400.00	33-0	33-1	33-2	33-3	33-3	33-4	33-5	33-6	33-6	33-7
425.00	37-4	37-5	37-6	37-7	37-7	37-8	37-9	37-10	37-10	37-11
450.00	41-11	42-0	42-1	42-2	42-3	42-4	42-5	42-5	42-6	42-7
475.00	46-9	46-10	46-11	47-0	47-1	47-2	47-3	47-4	47-5	47-6
500.00	51-11	52-0	52-1	52-2	52-3	52-4	52-6	52-7	52-7	52-8
525.00	57-3	57-5	57-6	57-7	57-8	57-10	57-11	58-0	58-1	58-2
550.00	62-11	63-1	63-2	63-4	63-5	63-7	63-8	63-9	63-10	63-11
575.00	68-11	69-1	69-2	69-4	69-5	69-7	69-8	69-10	69-11	70-0
600.00	75-2	75-4	75-5	75-7	75-9	75-10	76-0	76-2	76-3	76-4
625.00	81-8	81-10	82-0	82-2	82-4	82-6	82-8	82-9	82-11	83-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	12-10	12-10	12-11	12-11	12-11	13-0	13-0	13-0	13-0	13-0
275.00	15-7	15-7	15-7	15-8	15-8	15-8	15-9	15-9	15-9	15-9
300.00	18-6	18-7	18-7	18-8	18-8	18-8	18-9	18-9	18-9	18-10
325.00	21-9	21-10	21-10	21-11	21-11	22-0	22-0	22-0	22-1	22-1
350.00	25-3	25-4	25-4	25-5	25-5	25-6	25-6	25-7	25-7	25-8
375.00	29-0	29-1	29-2	29-2	29-3	29-4	29-4	29-5	29-5	29-5
400.00	33-1	33-1	33-2	33-3	33-4	33-4	33-5	33-6	33-6	33-7
425.00	37-4	37-5	37-6	37-7	37-8	37-9	37-9	37-10	37-10	37-11
450.00	41-11	42-0	42-1	42-2	42-3	42-4	42-5	42-5	42-6	42-7
475.00	46-9	46-10	47-0	47-1	47-2	47-3	47-4	47-4	47-5	47-6
500.00	51-11	52-0	52-1	52-2	52-4	52-5	52-6	52-7	52-7	52-8
525.00	57-4	57-5	57-6	57-8	57-9	57-10	57-11	58-0	58-1	58-2
550.00	63-0	63-1	63-3	63-4	63-6	63-7	63-8	63-9	63-10	63-11
575.00	68-11	69-1	69-3	69-4	69-6	69-8	69-9	69-10	69-11	70-0
600.00	75-2	75-4	75-6	75-8	75-10	75-11	76-1	76-2	76-3	76-4
625.00	81-9	81-11	82-1	82-3	82-5	82-7	82-8	82-9	82-11	83-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.50

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.591	1.33	1500	1.33	1500*
0	0	0	0	0.52	0.98	664	0.93	700
30	0	0	0	0.52	1.41	463	1.34	485
40	0	0	0	0.52	1.53	425	1.46	444
50	0	0	0	0.52	1.65	395	1.58	411
60	0	0	0	0.52	1.76	370	1.69	385
70	0	0	0	0.52	1.86	349	1.8	362
80	0	0	0	0.52	1.93	338	1.9	343
90	0	0	0	0.52	1.99	327	1.99	327
100	0	0	0	0.52	2.05	317	2.05	317
110	0	0	0	0.52	2.11	308	2.11	308
120	0	0	0	0.52	2.17	300	2.17	300
130	0	0	0	0.52	2.23	293	2.23	293
167	0	0	0	0.52	2.43	268	2.43	268
212	0	0	0	0.52	2.66	245	2.66	245

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.591	5.32	1500	5.32	1500*
0	0	0	0	0.52	4.95	526	4.89	533
30	0	0	0	0.52	5.41	482	5.33	489
40	0	0	0	0.52	5.55	470	5.47	476
50	0	0	0	0.52	5.69	458	5.61	465
60	0	0	0	0.52	5.83	448	5.75	454
70	0	0	0	0.52	5.96	438	5.88	444
80	0	0	0	0.52	6.09	429	6.01	434
90	0	0	0	0.52	6.17	423	6.13	426
100	0	0	0	0.52	6.26	417	6.26	417
110	0	0	0	0.52	6.34	412	6.34	412
120	0	0	0	0.52	6.42	407	6.42	407
130	0	0	0	0.52	6.5	402	6.5	402
167	0	0	0	0.52	6.79	385	6.79	385
212	0	0	0	0.52	7.12	367	7.12	367

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.51

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.591	12.01	1500	12.01	1500*
0	0	0	0	0.52	11.64	505	11.57	509
30	0	0	0	0.52	12.1	487	12.02	490
40	0	0	0	0.52	12.25	481	12.17	484
50	0	0	0	0.52	12.39	475	12.31	478
60	0	0	0	0.52	12.54	470	12.45	473
70	0	0	0	0.52	12.68	465	12.59	468
80	0	0	0	0.52	12.82	460	12.73	463
90	0	0	0	0.52	12.93	456	12.87	458
100	0	0	0	0.52	13.02	453	13	453
110	0	0	0	0.52	13.11	450	13.11	450
120	0	0	0	0.52	13.2	447	13.2	447
130	0	0	0	0.52	13.29	444	13.29	444
167	0	0	0	0.52	13.62	433	13.62	433
212	0	0	0	0.52	14.01	421	14.01	421

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.591	21.46	1500	21.46	1500*
0	0	0	0	0.52	21.09	499	21.02	500
30	0	0	0	0.52	21.55	488	21.47	490
40	0	0	0	0.52	21.7	485	21.62	487
50	0	0	0	0.52	21.85	482	21.76	484
60	0	0	0	0.52	21.99	479	21.91	480
70	0	0	0	0.52	22.14	475	22.05	477
80	0	0	0	0.52	22.29	472	22.19	474
90	0	0	0	0.52	22.41	470	22.33	471
100	0	0	0	0.52	22.5	468	22.47	469
110	0	0	0	0.52	22.6	466	22.6	466
120	0	0	0	0.52	22.69	464	22.69	464
130	0	0	0	0.52	22.79	462	22.78	462
167	0	0	0	0.52	23.13	456	23.13	456
212	0	0	0	0.52	23.55	448	23.55	448

* Design Condition

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SHEET 52 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.52

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.591	33.75	1500	33.75	1500*
0	0	0	0	0.52	33.39	495	33.31	497
30	0	0	0	0.52	33.84	489	33.77	490
40	0	0	0	0.52	33.99	487	33.91	488
50	0	0	0	0.52	34.14	485	34.06	486
60	0	0	0	0.52	34.29	483	34.2	484
70	0	0	0	0.52	34.44	481	34.35	482
80	0	0	0	0.52	34.59	479	34.49	480
90	0	0	0	0.52	34.71	477	34.64	478
100	0	0	0	0.52	34.81	476	34.78	476
110	0	0	0	0.52	34.91	475	34.91	475
120	0	0	0	0.52	35	473	35	473
130	0	0	0	0.52	35.1	472	35.1	472
167	0	0	0	0.52	35.46	468	35.46	468
212	0	0	0	0.52	35.89	462	35.89	462

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.53

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2
100.00	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-1
125.00	1-11	2-1	2-3	2-6	2-8	2-10	3-0	3-1	3-2	3-4
150.00	2-9	3-0	3-4	3-7	3-10	4-1	4-3	4-6	4-7	4-9
175.00	3-8	4-1	4-6	4-10	5-2	5-6	5-10	6-1	6-3	6-6
200.00	4-10	5-4	5-10	6-4	6-9	7-2	7-7	8-0	8-3	8-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-9	0-10	0-11	1-0	1-1	1-1	1-1	1-2	1-2
100.00	1-3	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-1
125.00	2-0	2-2	2-5	2-7	2-9	2-11	3-0	3-1	3-2	3-4
150.00	2-10	3-2	3-5	3-9	4-0	4-2	4-4	4-6	4-7	4-9
175.00	3-11	4-4	4-8	5-1	5-5	5-9	5-11	6-1	6-3	6-6
200.00	5-1	5-8	6-2	6-7	7-1	7-6	7-9	8-0	8-3	8-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.54

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7	1-7
125.00	2-0	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-5	2-6
150.00	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-5	3-6	3-7
175.00	4-0	4-1	4-2	4-4	4-5	4-6	4-7	4-8	4-9	4-10
200.00	5-2	5-4	5-6	5-7	5-9	5-11	6-0	6-2	6-3	6-4
225.00	6-7	6-9	6-11	7-1	7-3	7-5	7-7	7-9	7-11	8-0
250.00	8-1	8-4	8-7	8-9	9-0	9-2	9-5	9-7	9-9	9-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-5	1-6	1-6	1-7	1-7	1-7
125.00	2-1	2-1	2-2	2-3	2-3	2-4	2-5	2-5	2-5	2-6
150.00	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-6	3-7
175.00	4-0	4-2	4-3	4-4	4-6	4-7	4-8	4-9	4-9	4-10
200.00	5-3	5-5	5-7	5-8	5-10	6-0	6-1	6-2	6-3	6-4
225.00	6-8	6-10	7-0	7-2	7-5	7-7	7-9	7-10	7-11	8-0
250.00	8-3	8-5	8-8	8-11	9-1	9-4	9-6	9-8	9-9	9-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.55

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-0	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-3
175.00	4-0	4-1	4-2	4-2	4-3	4-3	4-4	4-4	4-5	4-5
200.00	5-3	5-4	5-5	5-6	5-6	5-7	5-8	5-9	5-9	5-10
225.00	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4	7-4
250.00	8-3	8-4	8-5	8-7	8-8	8-9	8-10	8-11	9-0	9-1
275.00	10-0	10-1	10-3	10-4	10-6	10-7	10-8	10-10	10-11	11-0
300.00	11-11	12-0	12-2	12-4	12-5	12-7	12-9	12-10	13-0	13-1
325.00	13-11	14-1	14-3	14-5	14-7	14-9	14-11	15-1	15-3	15-5
350.00	16-2	16-5	16-7	16-9	17-0	17-2	17-4	17-6	17-9	17-10
375.00	18-7	18-10	19-0	19-3	19-6	19-8	19-11	20-2	20-4	20-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-0	3-0	3-1	3-1	3-2	3-2	3-2	3-3	3-3	3-3
175.00	4-1	4-1	4-2	4-3	4-3	4-4	4-4	4-5	4-5	4-5
200.00	5-4	5-4	5-5	5-6	5-7	5-8	5-8	5-9	5-9	5-10
225.00	6-9	6-10	6-11	7-0	7-1	7-2	7-2	7-3	7-4	7-4
250.00	8-4	8-5	8-6	8-7	8-8	8-10	8-11	9-0	9-0	9-1
275.00	10-0	10-2	10-3	10-5	10-6	10-8	10-9	10-10	10-11	11-0
300.00	11-11	12-1	12-3	12-5	12-6	12-8	12-10	12-11	13-0	13-1
325.00	14-0	14-2	14-5	14-7	14-9	14-11	15-1	15-2	15-3	15-5
350.00	16-3	16-6	16-8	16-11	17-1	17-3	17-6	17-7	17-9	17-10
375.00	18-8	18-11	19-2	19-5	19-7	19-10	20-1	20-3	20-4	20-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.56

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-4	5-4	5-5	5-5	5-6	5-6	5-6	5-7	5-7	5-8
225.00	6-9	6-9	6-10	6-10	6-11	6-11	7-0	7-1	7-1	7-2
250.00	8-4	8-4	8-5	8-6	8-6	8-7	8-8	8-8	8-9	8-10
275.00	10-1	10-2	10-2	10-3	10-4	10-5	10-6	10-6	10-7	10-8
300.00	12-0	12-1	12-2	12-3	12-4	12-5	12-6	12-6	12-7	12-8
325.00	14-1	14-2	14-3	14-4	14-5	14-6	14-8	14-9	14-10	14-11
350.00	16-4	16-5	16-6	16-8	16-9	16-10	17-0	17-1	17-2	17-3
375.00	18-9	18-10	19-0	19-1	19-3	19-4	19-6	19-7	19-9	19-10
400.00	21-4	21-6	21-7	21-9	21-11	22-1	22-2	22-4	22-6	22-7
425.00	24-1	24-3	24-5	24-7	24-9	24-11	25-1	25-3	25-5	25-6
450.00	27-0	27-2	27-5	27-7	27-9	27-11	28-1	28-4	28-6	28-8
475.00	30-1	30-4	30-6	30-9	30-11	31-2	31-4	31-7	31-9	31-11
500.00	33-5	33-7	33-10	34-1	34-4	34-6	34-9	35-0	35-2	35-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-4	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-7	5-8
225.00	6-9	6-10	6-10	6-11	6-11	7-0	7-0	7-1	7-1	7-2
250.00	8-4	8-5	8-5	8-6	8-7	8-8	8-8	8-9	8-9	8-10
275.00	10-1	10-2	10-3	10-4	10-4	10-5	10-6	10-7	10-7	10-8
300.00	12-0	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-8
325.00	14-1	14-2	14-4	14-5	14-6	14-7	14-8	14-9	14-10	14-11
350.00	16-4	16-6	16-7	16-9	16-10	16-11	17-1	17-2	17-3	17-3
375.00	18-10	18-11	19-1	19-2	19-4	19-5	19-7	19-8	19-9	19-10
400.00	21-5	21-7	21-8	21-10	22-0	22-2	22-3	22-5	22-6	22-7
425.00	24-2	24-4	24-6	24-8	24-10	25-0	25-2	25-4	25-5	25-6
450.00	27-1	27-4	27-6	27-8	27-10	28-1	28-3	28-5	28-6	28-8
475.00	30-3	30-5	30-8	30-10	31-1	31-3	31-6	31-8	31-9	31-11
500.00	33-6	33-9	34-0	34-3	34-5	34-8	34-11	35-1	35-3	35-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.57

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-4	8-5	8-5	8-6	8-6	8-7	8-7	8-7	8-8	8-8
275.00	10-2	10-2	10-3	10-3	10-4	10-4	10-5	10-5	10-6	10-6
300.00	12-1	12-1	12-2	12-3	12-3	12-4	12-4	12-5	12-6	12-6
325.00	14-2	14-3	14-3	14-4	14-5	14-6	14-6	14-7	14-8	14-8
350.00	16-5	16-6	16-7	16-8	16-8	16-9	16-10	16-11	17-0	17-1
375.00	18-10	18-11	19-0	19-1	19-2	19-3	19-4	19-5	19-6	19-7
400.00	21-6	21-7	21-8	21-9	21-10	21-11	22-0	22-1	22-2	22-3
425.00	24-3	24-4	24-6	24-7	24-8	24-9	24-11	25-0	25-1	25-2
450.00	27-2	27-4	27-5	27-7	27-8	27-9	27-11	28-0	28-2	28-3
475.00	30-4	30-5	30-7	30-9	30-10	31-0	31-1	31-3	31-4	31-6
500.00	33-7	33-9	33-11	34-1	34-2	34-4	34-6	34-8	34-9	34-11
525.00	37-1	37-3	37-5	37-7	37-9	37-11	38-1	38-3	38-4	38-6
550.00	40-9	40-11	41-1	41-3	41-5	41-7	41-9	42-0	42-2	42-4
575.00	44-7	44-9	44-11	45-2	45-4	45-6	45-8	45-11	46-1	46-3
600.00	48-6	48-9	49-0	49-2	49-5	49-7	49-10	50-0	50-3	50-5
625.00	52-8	52-11	53-2	53-5	53-8	53-10	54-1	54-4	54-6	54-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-5	8-5	8-6	8-6	8-6	8-7	8-7	8-8	8-8	8-8
275.00	10-2	10-2	10-3	10-3	10-4	10-4	10-5	10-5	10-6	10-6
300.00	12-1	12-2	12-2	12-3	12-4	12-4	12-5	12-5	12-6	12-6
325.00	14-2	14-3	14-4	14-4	14-5	14-6	14-7	14-7	14-8	14-8
350.00	16-5	16-6	16-7	16-8	16-9	16-10	16-11	16-11	17-0	17-1
375.00	18-11	19-0	19-1	19-2	19-3	19-4	19-5	19-6	19-6	19-7
400.00	21-6	21-7	21-8	21-10	21-11	22-0	22-1	22-2	22-3	22-3
425.00	24-4	24-5	24-6	24-8	24-9	24-10	24-11	25-0	25-1	25-2
450.00	27-3	27-5	27-6	27-7	27-9	27-10	28-0	28-1	28-2	28-3
475.00	30-5	30-6	30-8	30-10	30-11	31-1	31-2	31-4	31-5	31-6
500.00	33-8	33-10	34-0	34-2	34-3	34-5	34-7	34-9	34-10	34-11
525.00	37-2	37-4	37-6	37-8	37-10	38-0	38-2	38-4	38-5	38-6
550.00	40-10	41-0	41-2	41-4	41-7	41-9	41-11	42-1	42-2	42-4
575.00	44-8	44-10	45-1	45-3	45-5	45-8	45-10	46-0	46-2	46-3
600.00	48-8	48-10	49-1	49-4	49-6	49-9	49-11	50-2	50-3	50-5
625.00	52-10	53-1	53-4	53-6	53-9	54-0	54-3	54-5	54-7	54-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.58

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.591	0.99	2000	0.99	2000*
0	0	0	0	0.52	0.52	1249	0.48	1343
30	0	0	0	0.52	0.96	674	0.86	754
40	0	0	0	0.52	1.12	583	1.01	646
50	0	0	0	0.52	1.26	516	1.15	566
60	0	0	0	0.52	1.39	467	1.28	507
70	0	0	0	0.52	1.52	428	1.41	461
80	0	0	0	0.52	1.59	408	1.53	425
90	0	0	0	0.52	1.66	391	1.64	396
100	0	0	0	0.52	1.73	375	1.73	375
110	0	0	0	0.52	1.8	361	1.8	361
120	0	0	0	0.52	1.87	349	1.87	349
130	0	0	0	0.52	1.93	337	1.93	337
167	0	0	0	0.52	2.15	303	2.15	303
212	0	0	0	0.52	2.4	271	2.4	271

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.591	3.98	2000	3.98	2000*
0	0	0	0	0.52	3.34	778	3.23	806
30	0	0	0	0.52	3.95	660	3.82	682
40	0	0	0	0.52	4.13	630	4	651
50	0	0	0	0.52	4.31	604	4.18	624
60	0	0	0	0.52	4.49	581	4.35	599
70	0	0	0	0.52	4.65	560	4.51	577
80	0	0	0	0.52	4.82	541	4.68	557
90	0	0	0	0.52	4.94	527	4.83	539
100	0	0	0	0.52	5.04	517	4.99	523
110	0	0	0	0.52	5.14	508	5.14	508
120	0	0	0	0.52	5.23	498	5.23	498
130	0	0	0	0.52	5.33	489	5.33	489
167	0	0	0	0.52	5.66	460	5.66	460
212	0	0	0	0.52	6.05	431	6.05	431

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.591	8.98	2000	8.98	2000*
0	0	0	0	0.52	8.33	704	8.22	714
30	0	0	0	0.52	8.94	656	8.81	666
40	0	0	0	0.52	9.14	643	9	652
50	0	0	0	0.52	9.33	630	9.18	639
60	0	0	0	0.52	9.52	617	9.37	627
70	0	0	0	0.52	9.7	606	9.55	615
80	0	0	0	0.52	9.88	595	9.73	604
90	0	0	0	0.52	10.06	584	9.9	593
100	0	0	0	0.52	10.18	577	10.08	583
110	0	0	0	0.52	10.29	571	10.25	574
120	0	0	0	0.52	10.4	565	10.4	565
130	0	0	0	0.52	10.51	559	10.51	559
167	0	0	0	0.52	10.91	539	10.91	539
212	0	0	0	0.52	11.38	517	11.38	517

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.591	16.01	2000	16.01	2000*
0	0	0	0	0.52	15.36	681	15.24	686
30	0	0	0	0.52	15.97	655	15.84	661
40	0	0	0	0.52	16.17	647	16.03	653
50	0	0	0	0.52	16.37	640	16.22	645
60	0	0	0	0.52	16.56	632	16.41	638
70	0	0	0	0.52	16.75	625	16.6	631
80	0	0	0	0.52	16.94	618	16.78	624
90	0	0	0	0.52	17.13	612	16.96	617
100	0	0	0	0.52	17.28	607	17.15	611
110	0	0	0	0.52	17.4	602	17.33	605
120	0	0	0	0.52	17.52	598	17.51	599
130	0	0	0	0.52	17.64	594	17.64	594
167	0	0	0	0.52	18.07	580	18.07	580
212	0	0	0	0.52	18.59	564	18.59	564

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.591	25.11	2000	25.11	2000*
0	0	0	0	0.52	24.46	671	24.34	674
30	0	0	0	0.52	25.07	655	24.93	658
40	0	0	0	0.52	25.27	650	25.13	653
50	0	0	0	0.52	25.47	645	25.32	648
60	0	0	0	0.52	25.67	640	25.51	644
70	0	0	0	0.52	25.86	635	25.7	639
80	0	0	0	0.52	26.05	630	25.89	634
90	0	0	0	0.52	26.25	626	26.08	630
100	0	0	0	0.52	26.41	622	26.27	626
110	0	0	0	0.52	26.54	619	26.45	621
120	0	0	0	0.52	26.66	616	26.64	617
130	0	0	0	0.52	26.78	614	26.78	614
167	0	0	0	0.52	27.24	604	27.24	604
212	0	0	0	0.52	27.78	592	27.78	592

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.61

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-0
100.00	0-9	0-10	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-10
125.00	1-1	1-4	1-7	1-10	2-0	2-2	2-5	2-7	2-9	2-10
150.00	1-7	1-11	2-3	2-7	2-11	3-2	3-5	3-8	3-11	4-1
175.00	2-2	2-8	3-1	3-6	3-11	4-4	4-8	5-0	5-4	5-6
200.00	2-11	3-5	4-0	4-7	5-2	5-8	6-2	6-7	6-11	7-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0
100.00	0-10	1-0	1-1	1-3	1-5	1-6	1-7	1-8	1-9	1-10
125.00	1-3	1-6	1-9	2-0	2-2	2-4	2-6	2-7	2-9	2-10
150.00	1-10	2-2	2-6	2-10	3-2	3-5	3-7	3-9	3-11	4-1
175.00	2-6	2-11	3-5	3-10	4-3	4-8	4-11	5-1	5-4	5-6
200.00	3-3	3-10	4-6	5-0	5-7	6-1	6-5	6-8	6-11	7-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.62

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-2	1-3	1-3
125.00	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11	2-0
150.00	2-0	2-2	2-3	2-4	2-5	2-6	2-8	2-9	2-10	2-11
175.00	2-9	2-11	3-1	3-2	3-4	3-5	3-7	3-8	3-10	3-11
200.00	3-8	3-10	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-2
225.00	4-7	4-10	5-1	5-3	5-6	5-9	5-11	6-1	6-4	6-6
250.00	5-8	6-0	6-3	6-6	6-10	7-1	7-4	7-7	7-10	8-0

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-3
125.00	1-6	1-6	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-0
150.00	2-1	2-3	2-4	2-5	2-6	2-7	2-9	2-9	2-10	2-11
175.00	2-10	3-0	3-2	3-4	3-5	3-7	3-8	3-9	3-10	3-11
200.00	3-9	3-11	4-2	4-4	4-6	4-8	4-10	4-11	5-0	5-2
225.00	4-9	5-0	5-3	5-6	5-8	5-11	6-1	6-3	6-5	6-6
250.00	5-10	6-2	6-6	6-9	7-0	7-3	7-6	7-9	7-11	8-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.63

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-2	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-7
175.00	2-11	3-0	3-1	3-1	3-2	3-3	3-4	3-4	3-5	3-6
200.00	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7
225.00	4-10	4-11	5-1	5-2	5-3	5-4	5-6	5-7	5-8	5-9
250.00	6-0	6-1	6-3	6-5	6-6	6-8	6-9	6-10	7-0	7-1
275.00	7-3	7-5	7-7	7-9	7-10	8-0	8-2	8-4	8-6	8-7
300.00	8-7	8-10	9-0	9-2	9-4	9-7	9-9	9-11	10-1	10-3
325.00	10-1	10-4	10-7	10-9	11-0	11-3	11-5	11-7	11-10	12-0
350.00	11-9	12-0	12-3	12-6	12-9	13-0	13-3	13-6	13-9	13-11
375.00	13-6	13-9	14-1	14-4	14-8	14-11	15-3	15-6	15-9	16-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-6	2-6	2-7
175.00	3-0	3-0	3-1	3-2	3-3	3-4	3-4	3-5	3-6	3-6
200.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-6	4-7
225.00	4-11	5-0	5-2	5-3	5-4	5-5	5-7	5-8	5-9	5-9
250.00	6-1	6-2	6-4	6-6	6-7	6-9	6-10	7-0	7-1	7-2
275.00	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-5	8-7	8-8
300.00	8-9	8-11	9-2	9-4	9-6	9-8	9-11	10-1	10-2	10-3
325.00	10-3	10-6	10-9	10-11	11-2	11-5	11-7	11-10	11-11	12-1
350.00	11-11	12-2	12-5	12-8	13-0	13-3	13-5	13-8	13-10	14-0
375.00	13-8	14-0	14-3	14-7	14-11	15-2	15-5	15-9	15-11	16-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.64

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-11	3-11	4-0	4-1	4-1	4-2	4-2	4-3	4-3	4-4
225.00	4-11	5-0	5-1	5-1	5-2	5-3	5-4	5-4	5-5	5-6
250.00	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-7	6-8	6-9
275.00	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2
300.00	8-9	8-11	9-0	9-1	9-3	9-4	9-5	9-6	9-8	9-9
325.00	10-4	10-5	10-7	10-8	10-10	10-11	11-1	11-2	11-4	11-5
350.00	12-0	12-1	12-3	12-5	12-7	12-8	12-10	13-0	13-1	13-3
375.00	13-9	13-11	14-1	14-3	14-5	14-7	14-9	14-11	15-1	15-3
400.00	15-8	15-10	16-0	16-3	16-5	16-7	16-9	17-0	17-2	17-4
425.00	17-8	17-11	18-1	18-4	18-6	18-9	18-11	19-2	19-4	19-7
450.00	19-10	20-1	20-4	20-6	20-9	21-0	21-3	21-6	21-9	21-11
475.00	22-1	22-4	22-7	22-11	23-2	23-5	23-8	23-11	24-2	24-6
500.00	24-6	24-9	25-1	25-4	25-8	26-0	26-3	26-7	26-10	27-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-3	4-4	4-4
225.00	5-0	5-1	5-1	5-2	5-3	5-4	5-4	5-5	5-5	5-6
250.00	6-2	6-3	6-4	6-5	6-6	6-6	6-7	6-8	6-9	6-9
275.00	7-5	7-6	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3
300.00	8-10	9-0	9-1	9-2	9-4	9-5	9-6	9-7	9-8	9-9
325.00	10-5	10-6	10-8	10-10	10-11	11-1	11-2	11-4	11-5	11-6
350.00	12-1	12-3	12-4	12-6	12-8	12-10	13-0	13-1	13-3	13-4
375.00	13-10	14-0	14-3	14-5	14-7	14-9	14-11	15-1	15-2	15-3
400.00	15-9	16-0	16-2	16-4	16-7	16-9	16-11	17-2	17-3	17-5
425.00	17-10	18-0	18-3	18-6	18-8	18-11	19-2	19-4	19-6	19-8
450.00	20-0	20-3	20-6	20-9	21-0	21-3	21-5	21-8	21-11	22-0
475.00	22-3	22-7	22-10	23-1	23-4	23-8	23-11	24-2	24-5	24-7
500.00	24-8	25-0	25-4	25-7	25-11	26-3	26-6	26-10	27-0	27-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.65

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-2	6-3	6-3	6-4	6-4	6-5	6-5	6-6	6-7	6-7
275.00	7-6	7-6	7-7	7-8	7-8	7-9	7-10	7-10	7-11	8-0
300.00	8-11	8-11	9-0	9-1	9-2	9-3	9-4	9-4	9-5	9-6
325.00	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2
350.00	12-1	12-2	12-3	12-5	12-6	12-7	12-8	12-9	12-10	12-11
375.00	13-11	14-0	14-1	14-3	14-4	14-5	14-6	14-8	14-9	14-10
400.00	15-10	15-11	16-1	16-2	16-4	16-5	16-7	16-8	16-9	16-11
425.00	17-10	18-0	18-2	18-3	18-5	18-7	18-8	18-10	18-11	19-1
450.00	20-0	20-2	20-4	20-6	20-8	20-10	20-11	21-1	21-3	21-5
475.00	22-4	22-6	22-8	22-10	23-0	23-2	23-4	23-6	23-8	23-10
500.00	24-9	24-11	25-2	25-4	25-6	25-8	25-11	26-1	26-3	26-5
525.00	27-3	27-6	27-9	27-11	28-2	28-4	28-7	28-9	29-0	29-2
550.00	29-11	30-2	30-5	30-8	30-11	31-1	31-4	31-7	31-10	32-0
575.00	32-9	33-0	33-3	33-6	33-9	34-0	34-3	34-6	34-9	35-0
600.00	35-8	35-11	36-3	36-6	36-10	37-1	37-4	37-7	37-11	38-2
625.00	38-9	39-0	39-4	39-8	39-11	40-3	40-6	40-10	41-2	41-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-2	6-3	6-4	6-4	6-5	6-5	6-6	6-7	6-7	6-7
275.00	7-6	7-7	7-8	7-8	7-9	7-10	7-10	7-11	8-0	8-0
300.00	8-11	9-0	9-1	9-2	9-3	9-3	9-4	9-5	9-6	9-6
325.00	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2	11-2
350.00	12-2	12-3	12-4	12-5	12-7	12-8	12-9	12-10	12-11	13-0
375.00	14-0	14-1	14-2	14-4	14-5	14-6	14-8	14-9	14-10	14-11
400.00	15-11	16-0	16-2	16-3	16-5	16-6	16-8	16-9	16-11	17-0
425.00	17-11	18-1	18-3	18-5	18-6	18-8	18-10	18-11	19-1	19-2
450.00	20-2	20-4	20-5	20-7	20-9	20-11	21-1	21-3	21-5	21-6
475.00	22-5	22-7	22-10	23-0	23-2	23-4	23-6	23-8	23-10	23-11
500.00	24-10	25-1	25-3	25-6	25-8	25-10	26-1	26-3	26-5	26-6
525.00	27-5	27-8	27-10	28-1	28-4	28-6	28-9	28-11	29-2	29-3
550.00	30-1	30-4	30-7	30-10	31-1	31-4	31-7	31-9	32-0	32-2
575.00	32-11	33-2	33-5	33-9	34-0	34-3	34-6	34-9	35-0	35-2
600.00	35-10	36-2	36-5	36-9	37-0	37-4	37-7	37-10	38-1	38-3
625.00	38-11	39-3	39-7	39-10	40-2	40-6	40-10	41-1	41-4	41-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.66

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.591	0.8	2500	0.8	2500*
0	0	0	0	0.52	0.33	1954	0.32	2049
30	0	0	0	0.52	0.64	1009	0.54	1202
40	0	0	0	0.52	0.8	816	0.66	982
50	0	0	0	0.52	0.95	682	0.8	812
60	0	0	0	0.52	1.11	588	0.95	687
70	0	0	0	0.52	1.25	520	1.09	596
80	0	0	0	0.52	1.34	486	1.23	530
90	0	0	0	0.52	1.41	460	1.36	479
100	0	0	0	0.52	1.49	438	1.48	439
110	0	0	0	0.52	1.56	417	1.56	417
120	0	0	0	0.52	1.63	399	1.63	399
130	0	0	0	0.52	1.7	383	1.7	383
167	0	0	0	0.52	1.94	335	1.94	335
212	0	0	0	0.52	2.21	295	2.21	295

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.591	3.19	2500	3.19	2500*
0	0	0	0	0.52	2.24	1161	2.08	1249
30	0	0	0	0.52	2.96	878	2.76	942
40	0	0	0	0.52	3.19	817	2.98	873
50	0	0	0	0.52	3.4	765	3.19	815
60	0	0	0	0.52	3.61	722	3.4	766
70	0	0	0	0.52	3.81	684	3.59	724
80	0	0	0	0.52	4	651	3.79	688
90	0	0	0	0.52	4.16	626	3.97	656
100	0	0	0	0.52	4.27	610	4.15	628
110	0	0	0	0.52	4.38	595	4.32	603
120	0	0	0	0.52	4.49	580	4.49	580
130	0	0	0	0.52	4.59	567	4.59	567
167	0	0	0	0.52	4.97	525	4.97	525
212	0	0	0	0.52	5.39	483	5.39	483

* Design Condition

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SHEET 67 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.67

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.591	7.18	2500	7.18	2500*
0	0	0	0	0.52	6.17	949	5.97	981
30	0	0	0	0.52	6.94	845	6.72	873
40	0	0	0	0.52	7.18	817	6.95	843
50	0	0	0	0.52	7.41	791	7.18	816
60	0	0	0	0.52	7.64	768	7.41	792
70	0	0	0	0.52	7.86	746	7.63	769
80	0	0	0	0.52	8.08	726	7.84	748
90	0	0	0	0.52	8.29	708	8.05	728
100	0	0	0	0.52	8.47	693	8.26	710
110	0	0	0	0.52	8.6	683	8.46	694
120	0	0	0	0.52	8.72	673	8.66	678
130	0	0	0	0.52	8.85	663	8.85	663
167	0	0	0	0.52	9.31	631	9.31	631
212	0	0	0	0.52	9.84	597	9.84	597

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.591	12.78	2500	12.78	2500*
0	0	0	0	0.52	11.77	887	11.57	902
30	0	0	0	0.52	12.54	833	12.31	848
40	0	0	0	0.52	12.78	817	12.55	832
50	0	0	0	0.52	13.02	802	12.79	817
60	0	0	0	0.52	13.26	788	13.02	802
70	0	0	0	0.52	13.5	774	13.25	788
80	0	0	0	0.52	13.73	761	13.48	775
90	0	0	0	0.52	13.95	749	13.7	763
100	0	0	0	0.52	14.18	737	13.92	751
110	0	0	0	0.52	14.33	730	14.14	739
120	0	0	0	0.52	14.47	723	14.35	728
130	0	0	0	0.52	14.61	716	14.57	718
167	0	0	0	0.52	15.11	692	15.11	692
212	0	0	0	0.52	15.71	666	15.71	666

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.68

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.591	20.01	2500	20.01	2500*
0	0	0	0	0.52	19	860	18.8	869
30	0	0	0	0.52	19.77	827	19.54	837
40	0	0	0	0.52	20.02	817	19.78	827
50	0	0	0	0.52	20.26	807	20.02	817
60	0	0	0	0.52	20.51	798	20.26	807
70	0	0	0	0.52	20.75	789	20.5	798
80	0	0	0	0.52	20.98	780	20.73	789
90	0	0	0	0.52	21.22	771	20.96	781
100	0	0	0	0.52	21.45	763	21.19	772
110	0	0	0	0.52	21.63	757	21.41	764
120	0	0	0	0.52	21.78	752	21.64	757
130	0	0	0	0.52	21.93	747	21.86	749
167	0	0	0	0.52	22.47	729	22.47	729
212	0	0	0	0.52	23.11	709	23.11	709

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.69

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11
100.00	0-5	0-6	0-8	0-10	0-11	1-1	1-3	1-4	1-6	1-7
125.00	0-8	0-10	1-0	1-3	1-6	1-8	1-11	2-1	2-4	2-5
150.00	1-0	1-3	1-6	1-10	2-2	2-5	2-9	3-1	3-4	3-6
175.00	1-4	1-8	2-0	2-5	2-11	3-4	3-9	4-2	4-7	4-9
200.00	1-9	2-2	2-8	3-2	3-9	4-4	4-11	5-5	5-11	6-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11
100.00	0-6	0-8	0-10	0-11	1-1	1-3	1-4	1-5	1-6	1-7
125.00	0-10	1-0	1-3	1-6	1-9	1-11	2-1	2-3	2-4	2-5
150.00	1-2	1-5	1-10	2-2	2-6	2-10	3-0	3-2	3-4	3-6
175.00	1-7	2-0	2-5	2-11	3-5	3-10	4-1	4-4	4-7	4-9
200.00	2-1	2-7	3-2	3-10	4-5	5-0	5-4	5-8	5-11	6-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.70

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1
125.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8
150.00	1-5	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-4	2-5
175.00	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-2	3-4
200.00	2-6	2-9	3-0	3-2	3-5	3-7	3-9	4-0	4-2	4-4
225.00	3-3	3-6	3-9	4-0	4-4	4-7	4-10	5-0	5-3	5-6
250.00	4-0	4-4	4-8	5-0	5-4	5-7	5-11	6-2	6-6	6-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1
125.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-8	1-9
150.00	1-6	1-8	1-10	1-11	2-0	2-2	2-3	2-4	2-5	2-6
175.00	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-2	3-3	3-4
200.00	2-9	3-0	3-2	3-5	3-7	3-10	4-0	4-2	4-3	4-5
225.00	3-5	3-9	4-0	4-4	4-7	4-10	5-1	5-3	5-5	5-7
250.00	4-3	4-8	5-0	5-4	5-8	5-11	6-3	6-6	6-8	6-10

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STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.71

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-1
175.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
200.00	2-11	3-0	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-9
225.00	3-8	3-9	3-11	4-0	4-2	4-3	4-5	4-6	4-8	4-9
250.00	4-6	4-8	4-10	5-0	5-2	5-4	5-5	5-7	5-9	5-10
275.00	5-5	5-8	5-10	6-0	6-3	6-5	6-7	6-9	6-11	7-1
300.00	6-6	6-9	6-11	7-2	7-5	7-8	7-10	8-1	8-3	8-6
325.00	7-7	7-11	8-2	8-5	8-8	8-11	9-2	9-5	9-8	9-11
350.00	8-10	9-2	9-6	9-9	10-1	10-5	10-8	11-0	11-3	11-6
375.00	10-1	10-6	10-10	11-3	11-7	11-11	12-3	12-7	12-11	13-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-8	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-1	2-2
175.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11
200.00	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9	3-10
225.00	3-9	3-11	4-0	4-2	4-4	4-5	4-7	4-8	4-9	4-10
250.00	4-8	4-10	5-0	5-2	5-4	5-5	5-7	5-9	5-11	6-0
275.00	5-7	5-10	6-0	6-3	6-5	6-7	6-9	7-0	7-1	7-3
300.00	6-8	6-11	7-2	7-5	7-8	7-10	8-1	8-4	8-6	8-7
325.00	7-10	8-2	8-5	8-8	9-0	9-3	9-6	9-9	9-11	10-1
350.00	9-1	9-5	9-9	10-1	10-5	10-8	11-0	11-3	11-6	11-8
375.00	10-5	10-10	11-3	11-7	11-11	12-3	12-8	13-0	13-3	13-5

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STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.72

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-0	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-6	3-6
225.00	3-10	3-11	4-0	4-1	4-1	4-2	4-3	4-4	4-5	4-6
250.00	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6
275.00	5-8	5-10	5-11	6-0	6-2	6-3	6-4	6-6	6-7	6-8
300.00	6-9	6-11	7-1	7-2	7-4	7-5	7-7	7-8	7-10	7-11
325.00	8-0	8-1	8-3	8-5	8-7	8-9	8-11	9-0	9-2	9-4
350.00	9-3	9-5	9-7	9-9	10-0	10-2	10-4	10-6	10-8	10-10
375.00	10-7	10-10	11-0	11-3	11-5	11-8	11-10	12-0	12-3	12-5
400.00	12-1	12-4	12-7	12-9	13-0	13-3	13-6	13-8	13-11	14-2
425.00	13-7	13-11	14-2	14-5	14-8	15-0	15-3	15-6	15-9	16-0
450.00	15-3	15-7	15-11	16-2	16-6	16-9	17-1	17-4	17-8	17-11
475.00	17-0	17-4	17-8	18-1	18-4	18-8	19-0	19-4	19-8	19-11
500.00	18-10	19-3	19-8	20-0	20-4	20-9	21-1	21-5	21-9	22-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-6	3-6	3-7
225.00	3-11	4-0	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-6
250.00	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7
275.00	5-10	5-11	6-0	6-2	6-3	6-4	6-6	6-7	6-8	6-9
300.00	6-11	7-1	7-2	7-4	7-5	7-7	7-9	7-10	8-0	8-1
325.00	8-1	8-3	8-5	8-7	8-9	8-11	9-1	9-2	9-4	9-5
350.00	9-5	9-7	9-9	10-0	10-2	10-4	10-6	10-8	10-10	11-0
375.00	10-10	11-0	11-3	11-5	11-8	11-10	12-1	12-3	12-5	12-7
400.00	12-3	12-6	12-9	13-0	13-3	13-6	13-9	13-11	14-2	14-4
425.00	13-10	14-2	14-5	14-8	15-0	15-3	15-6	15-9	16-0	16-2
450.00	15-7	15-10	16-2	16-6	16-9	17-1	17-5	17-8	17-11	18-2
475.00	17-4	17-8	18-0	18-5	18-9	19-1	19-4	19-8	20-0	20-3
500.00	19-3	19-7	20-0	20-4	20-9	21-1	21-6	21-10	22-2	22-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.73

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-10	4-11	4-11	5-0	5-1	5-1	5-2	5-3	5-3	5-4
275.00	5-10	5-11	6-0	6-1	6-1	6-2	6-3	6-4	6-5	6-6
300.00	6-11	7-0	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8
325.00	8-2	8-3	8-4	8-5	8-7	8-8	8-9	8-10	8-11	9-0
350.00	9-5	9-7	9-8	9-10	9-11	10-0	10-2	10-3	10-4	10-6
375.00	10-10	11-0	11-1	11-3	11-5	11-6	11-8	11-9	11-11	12-0
400.00	12-4	12-6	12-8	12-10	12-11	13-1	13-3	13-5	13-7	13-8
425.00	13-11	14-1	14-3	14-5	14-8	14-10	15-0	15-2	15-4	15-6
450.00	15-7	15-10	16-0	16-3	16-5	16-7	16-9	17-0	17-2	17-4
475.00	17-5	17-8	17-10	18-1	18-3	18-6	18-8	18-11	19-1	19-4
500.00	19-4	19-6	19-9	20-0	20-3	20-6	20-9	21-0	21-2	21-5
525.00	21-3	21-7	21-10	22-1	22-4	22-7	22-10	23-1	23-4	23-7
550.00	23-4	23-8	23-11	24-3	24-6	24-10	25-1	25-4	25-8	25-11
575.00	25-6	25-10	26-2	26-6	26-10	27-1	27-5	27-9	28-1	28-4
600.00	27-10	28-2	28-6	28-10	29-2	29-7	29-11	30-3	30-7	30-10
625.00	30-2	30-7	30-11	31-4	31-8	32-1	32-5	32-9	33-2	33-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-10	4-11	5-0	5-1	5-1	5-2	5-3	5-4	5-4	5-5
275.00	5-11	6-0	6-1	6-1	6-2	6-3	6-4	6-5	6-6	6-6
300.00	7-0	7-1	7-2	7-3	7-4	7-5	7-7	7-8	7-9	7-9
325.00	8-3	8-4	8-5	8-7	8-8	8-9	8-10	8-11	9-1	9-2
350.00	9-7	9-8	9-10	9-11	10-0	10-2	10-3	10-5	10-6	10-7
375.00	11-0	11-1	11-3	11-5	11-6	11-8	11-9	11-11	12-1	12-2
400.00	12-6	12-8	12-10	12-11	13-1	13-3	13-5	13-7	13-9	13-10
425.00	14-1	14-3	14-5	14-8	14-10	15-0	15-2	15-4	15-6	15-7
450.00	15-10	16-0	16-2	16-5	16-7	16-10	17-0	17-2	17-4	17-6
475.00	17-7	17-10	18-1	18-3	18-6	18-9	18-11	19-2	19-4	19-6
500.00	19-6	19-9	20-0	20-3	20-6	20-9	21-0	21-3	21-5	21-8
525.00	21-6	21-10	22-1	22-4	22-7	22-11	23-2	23-5	23-8	23-10
550.00	23-7	23-11	24-3	24-6	24-10	25-1	25-5	25-8	26-0	26-2
575.00	25-10	26-2	26-6	26-10	27-2	27-5	27-9	28-1	28-5	28-8
600.00	28-2	28-6	28-10	29-2	29-7	29-11	30-3	30-7	30-11	31-2
625.00	30-6	30-11	31-4	31-8	32-1	32-5	32-10	33-2	33-7	33-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.74

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.591	0.66	3000	0.66	3000*
0	0	0	0	0.52	0.25	2606	0.24	2686
30	0	0	0	0.52	0.44	1479	0.37	1768
40	0	0	0	0.52	0.55	1175	0.44	1478
50	0	0	0	0.52	0.69	937	0.54	1214
60	0	0	0	0.52	0.85	766	0.66	991
70	0	0	0	0.52	1.01	647	0.79	818
80	0	0	0	0.52	1.12	583	0.94	691
90	0	0	0	0.52	1.19	546	1.09	599
100	0	0	0	0.52	1.27	513	1.22	531
110	0	0	0	0.52	1.35	483	1.35	483
120	0	0	0	0.52	1.42	458	1.42	458
130	0	0	0	0.52	1.49	436	1.49	436
167	0	0	0	0.52	1.75	372	1.75	372
212	0	0	0	0.52	2.04	320	2.04	320

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.591	2.65	3000	2.65	3000*
0	0	0	0	0.52	1.49	1743	1.36	1912
30	0	0	0	0.52	2.21	1176	1.96	1329
40	0	0	0	0.52	2.46	1057	2.18	1191
50	0	0	0	0.52	2.7	963	2.41	1078
60	0	0	0	0.52	2.94	886	2.64	985
70	0	0	0	0.52	3.16	823	2.86	909
80	0	0	0	0.52	3.38	771	3.08	845
90	0	0	0	0.52	3.58	726	3.29	791
100	0	0	0	0.52	3.7	704	3.49	745
110	0	0	0	0.52	3.82	682	3.69	706
120	0	0	0	0.52	3.93	663	3.88	672
130	0	0	0	0.52	4.04	644	4.04	644
167	0	0	0	0.52	4.44	586	4.44	586
212	0	0	0	0.52	4.91	531	4.91	531

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.75

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.591	5.98	3000	5.98	3000*
0	0	0	0	0.52	4.57	1281	4.29	1366
30	0	0	0	0.52	5.47	1070	5.15	1137
40	0	0	0	0.52	5.76	1018	5.43	1079
50	0	0	0	0.52	6.03	971	5.7	1028
60	0	0	0	0.52	6.3	931	5.96	983
70	0	0	0	0.52	6.56	894	6.22	943
80	0	0	0	0.52	6.81	861	6.47	906
90	0	0	0	0.52	7.05	832	6.71	874
100	0	0	0	0.52	7.29	805	6.95	844
110	0	0	0	0.52	7.43	790	7.18	817
120	0	0	0	0.52	7.57	775	7.41	792
130	0	0	0	0.52	7.7	761	7.63	769
167	0	0	0	0.52	8.21	715	8.21	715
212	0	0	0	0.52	8.79	668	8.79	668

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.591	10.64	3000	10.64	3000*
0	0	0	0	0.52	9.19	1134	8.88	1174
30	0	0	0	0.52	10.12	1031	9.78	1066
40	0	0	0	0.52	10.41	1002	10.06	1036
50	0	0	0	0.52	10.7	975	10.34	1008
60	0	0	0	0.52	10.98	950	10.62	982
70	0	0	0	0.52	11.25	927	10.89	958
80	0	0	0	0.52	11.52	906	11.16	935
90	0	0	0	0.52	11.79	886	11.42	914
100	0	0	0	0.52	12.04	867	11.68	894
110	0	0	0	0.52	12.26	851	11.93	875
120	0	0	0	0.52	12.42	841	12.18	857
130	0	0	0	0.52	12.57	830	12.42	840
167	0	0	0	0.52	13.14	795	13.14	795
212	0	0	0	0.52	13.81	757	13.81	757

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.591	16.65	3000	16.65	3000*
0	0	0	0	0.52	15.19	1073	14.87	1096
30	0	0	0	0.52	16.12	1013	15.77	1035
40	0	0	0	0.52	16.41	994	16.06	1016
50	0	0	0	0.52	16.71	977	16.35	998
60	0	0	0	0.52	17	961	16.63	981
70	0	0	0	0.52	17.28	945	16.91	965
80	0	0	0	0.52	17.56	930	17.19	950
90	0	0	0	0.52	17.84	916	17.46	935
100	0	0	0	0.52	18.11	902	17.73	921
110	0	0	0	0.52	18.38	889	17.99	908
120	0	0	0	0.52	18.55	881	18.25	895
130	0	0	0	0.52	18.72	873	18.51	883
167	0	0	0	0.52	19.33	846	19.33	846
212	0	0	0	0.52	20.06	815	20.06	815

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.77

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9
100.00	0-4	0-4	0-5	0-6	0-8	0-10	0-11	1-1	1-3	1-4
125.00	0-6	0-7	0-8	0-10	1-0	1-3	1-6	1-8	1-11	2-1
150.00	0-8	0-10	1-0	1-2	1-6	1-9	2-1	2-5	2-9	3-0
175.00	1-0	1-2	1-4	1-8	2-0	2-5	2-11	3-4	3-9	4-1
200.00	1-3	1-6	1-9	2-2	2-7	3-2	3-9	4-4	4-11	5-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9	0-9
100.00	0-4	0-5	0-7	0-8	0-10	1-0	1-1	1-2	1-3	1-4
125.00	0-7	0-8	0-10	1-1	1-4	1-7	1-9	1-10	2-0	2-1
150.00	0-10	1-0	1-3	1-7	1-11	2-3	2-6	2-8	2-10	3-0
175.00	1-1	1-4	1-8	2-2	2-7	3-1	3-5	3-8	3-11	4-1
200.00	1-5	1-9	2-3	2-9	3-5	4-0	4-6	4-9	5-1	5-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AWTENSION 3000 LBS

OH811.78

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-10	0-11
125.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
150.00	1-0	1-1	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-1
175.00	1-4	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-10
200.00	1-9	1-11	2-2	2-5	2-8	2-10	3-1	3-3	3-6	3-8
225.00	2-2	2-6	2-9	3-1	3-4	3-7	3-11	4-2	4-5	4-8
250.00	2-9	3-1	3-5	3-9	4-2	4-6	4-10	5-2	5-5	5-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11	0-11
125.00	0-9	0-10	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6
150.00	1-1	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-1	2-2
175.00	1-6	1-8	1-11	2-1	2-3	2-5	2-7	2-9	2-10	2-11
200.00	2-0	2-3	2-6	2-8	2-11	3-2	3-5	3-7	3-8	3-10
225.00	2-6	2-10	3-1	3-5	3-9	4-0	4-3	4-6	4-8	4-10
250.00	3-1	3-5	3-10	4-3	4-7	4-11	5-3	5-7	5-9	6-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.79

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10
175.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
200.00	2-2	2-3	2-5	2-6	2-8	2-9	2-10	3-0	3-1	3-2
225.00	2-9	2-11	3-1	3-2	3-4	3-6	3-8	3-9	3-11	4-0
250.00	3-5	3-7	3-9	3-11	4-2	4-4	4-6	4-8	4-10	5-0
275.00	4-1	4-4	4-7	4-9	5-0	5-3	5-5	5-8	5-10	6-0
300.00	4-10	5-2	5-5	5-8	6-0	6-3	6-6	6-9	6-11	7-2
325.00	5-9	6-1	6-4	6-8	7-0	7-4	7-7	7-11	8-2	8-5
350.00	6-8	7-0	7-5	7-9	8-1	8-6	8-10	9-2	9-6	9-9
375.00	7-7	8-1	8-6	8-11	9-4	9-9	10-1	10-6	10-10	11-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-10
175.00	1-9	1-10	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-6
200.00	2-4	2-5	2-7	2-8	2-10	2-11	3-0	3-2	3-3	3-4
225.00	2-11	3-1	3-3	3-5	3-6	3-8	3-10	4-0	4-1	4-2
250.00	3-7	3-10	4-0	4-2	4-4	4-7	4-9	4-11	5-1	5-2
275.00	4-4	4-7	4-10	5-1	5-3	5-6	5-9	5-11	6-1	6-3
300.00	5-2	5-6	5-9	6-0	6-4	6-7	6-10	7-1	7-3	7-5
325.00	6-1	6-5	6-9	7-1	7-5	7-8	8-0	8-3	8-7	8-9
350.00	7-1	7-5	7-10	8-3	8-7	8-11	9-3	9-7	9-11	10-1
375.00	8-1	8-7	9-0	9-5	9-10	10-3	10-8	11-0	11-5	11-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.80

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-4	2-5	2-6	2-7	2-8	2-9	2-9	2-10	2-11	3-0
225.00	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
250.00	3-8	3-10	3-11	4-0	4-2	4-3	4-4	4-5	4-7	4-8
275.00	4-6	4-7	4-9	4-11	5-0	5-2	5-3	5-5	5-6	5-8
300.00	5-4	5-6	5-8	5-10	6-0	6-1	6-3	6-5	6-7	6-8
325.00	6-3	6-5	6-8	6-10	7-0	7-2	7-4	7-6	7-8	7-10
350.00	7-3	7-6	7-8	7-11	8-2	8-4	8-6	8-9	8-11	9-2
375.00	8-4	8-7	8-10	9-1	9-4	9-7	9-10	10-0	10-3	10-6
400.00	9-6	9-9	10-1	10-4	10-7	10-11	11-2	11-5	11-8	11-11
425.00	10-8	11-0	11-4	11-8	12-0	12-4	12-7	12-11	13-2	13-6
450.00	12-0	12-4	12-9	13-1	13-5	13-9	14-2	14-5	14-9	15-1
475.00	13-5	13-9	14-2	14-7	15-0	15-4	15-9	16-1	16-6	16-10
500.00	14-10	15-3	15-9	16-2	16-7	17-0	17-5	17-10	18-3	18-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1
225.00	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-9	3-10	3-11
250.00	3-10	3-11	4-1	4-2	4-3	4-5	4-6	4-7	4-8	4-9
275.00	4-8	4-9	4-11	5-1	5-2	5-4	5-5	5-7	5-8	5-9
300.00	5-6	5-8	5-10	6-0	6-2	6-4	6-6	6-8	6-9	6-11
325.00	6-6	6-8	6-10	7-1	7-3	7-5	7-7	7-9	7-11	8-1
350.00	7-6	7-9	8-0	8-2	8-5	8-7	8-10	9-0	9-3	9-5
375.00	8-8	8-11	9-2	9-5	9-8	9-11	10-1	10-4	10-7	10-9
400.00	9-10	10-1	10-5	10-8	11-0	11-3	11-6	11-9	12-1	12-3
425.00	11-1	11-5	11-9	12-1	12-5	12-8	13-0	13-4	13-7	13-10
450.00	12-5	12-10	13-2	13-6	13-11	14-3	14-7	14-11	15-3	15-6
475.00	13-10	14-3	14-8	15-1	15-6	15-10	16-3	16-8	17-0	17-4
500.00	15-4	15-10	16-3	16-9	17-2	17-7	18-0	18-5	18-10	19-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.81

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-10	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-6
275.00	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5
300.00	5-7	5-8	5-9	5-11	6-0	6-1	6-2	6-3	6-4	6-6
325.00	6-6	6-8	6-9	6-11	7-0	7-2	7-3	7-4	7-6	7-7
350.00	7-7	7-9	7-10	8-0	8-2	8-3	8-5	8-7	8-8	8-10
375.00	8-8	8-10	9-0	9-2	9-4	9-6	9-8	9-10	10-0	10-1
400.00	9-11	10-1	10-3	10-5	10-8	10-10	11-0	11-2	11-4	11-6
425.00	11-2	11-5	11-7	11-10	12-0	12-3	12-5	12-7	12-10	13-0
450.00	12-6	12-9	13-0	13-3	13-6	13-8	13-11	14-2	14-4	14-7
475.00	14-0	14-3	14-6	14-9	15-0	15-3	15-6	15-9	16-0	16-3
500.00	15-6	15-9	16-1	16-4	16-8	16-11	17-2	17-5	17-9	18-0
525.00	17-1	17-5	17-9	18-0	18-4	18-8	18-11	19-3	19-7	19-10
550.00	18-9	19-1	19-5	19-9	20-2	20-6	20-10	21-2	21-5	21-9
575.00	20-6	20-10	21-3	21-8	22-0	22-4	22-9	23-1	23-5	23-10
600.00	22-4	22-9	23-2	23-7	24-0	24-4	24-9	25-2	25-7	25-11
625.00	24-2	24-8	25-1	25-7	26-0	26-5	26-11	27-4	27-9	28-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-5	4-6	4-7
275.00	4-9	4-10	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7
300.00	5-8	5-10	5-11	6-0	6-1	6-3	6-4	6-5	6-6	6-7
325.00	6-8	6-10	6-11	7-1	7-2	7-4	7-5	7-6	7-8	7-9
350.00	7-9	7-11	8-0	8-2	8-4	8-6	8-7	8-9	8-10	9-0
375.00	8-11	9-1	9-3	9-5	9-7	9-9	9-10	10-0	10-2	10-4
400.00	10-1	10-4	10-6	10-8	10-10	11-1	11-3	11-5	11-7	11-9
425.00	11-5	11-8	11-10	12-1	12-3	12-6	12-8	12-11	13-1	13-3
450.00	12-10	13-1	13-3	13-6	13-9	14-0	14-3	14-5	14-8	14-11
475.00	14-3	14-7	14-10	15-1	15-4	15-7	15-10	16-1	16-4	16-7
500.00	15-10	16-1	16-5	16-8	17-0	17-3	17-7	17-10	18-1	18-5
525.00	17-5	17-9	18-1	18-5	18-9	19-1	19-4	19-8	20-0	20-3
550.00	19-2	19-6	19-10	20-3	20-7	20-11	21-3	21-7	21-11	22-3
575.00	20-11	21-4	21-9	22-1	22-6	22-10	23-3	23-7	24-0	24-4
600.00	22-9	23-3	23-8	24-1	24-6	24-11	25-4	25-8	26-1	26-6
625.00	24-9	25-2	25-8	26-2	26-7	27-0	27-6	27-11	28-4	28-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.82

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	4.93	1000	4.93	1000*
0	0	0	0	0.52	4.82	136	4.79	137
30	0	0	0	0.52	4.97	132	4.94	133
40	0	0	0	0.52	5.01	131	4.99	132
50	0	0	0	0.52	5.05	130	5.03	131
60	0	0	0	0.52	5.07	129	5.07	130
70	0	0	0	0.52	5.1	129	5.1	129
80	0	0	0	0.52	5.13	128	5.13	128
90	0	0	0	0.52	5.15	127	5.15	127
100	0	0	0	0.52	5.18	127	5.18	127
110	0	0	0	0.52	5.21	126	5.21	126
120	0	0	0	0.52	5.23	126	5.23	126
130	0	0	0	0.52	5.26	125	5.26	125
167	0	0	0	0.52	5.35	123	5.35	123
212	0	0	0	0.52	5.46	120	5.46	120

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	20.33	1000	20.33	1000*
0	0	0	0	0.52	20.22	134	20.2	134
30	0	0	0	0.52	20.37	133	20.34	133
40	0	0	0	0.52	20.41	133	20.39	133
50	0	0	0	0.52	20.45	132	20.43	133
60	0	0	0	0.52	20.47	132	20.47	132
70	0	0	0	0.52	20.5	132	20.5	132
80	0	0	0	0.52	20.53	132	20.53	132
90	0	0	0	0.52	20.56	132	20.56	132
100	0	0	0	0.52	20.58	132	20.58	132
110	0	0	0	0.52	20.61	132	20.61	132
120	0	0	0	0.52	20.64	131	20.64	131
130	0	0	0	0.52	20.67	131	20.67	131
167	0	0	0	0.52	20.77	131	20.77	131
212	0	0	0	0.52	20.89	130	20.89	130

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.83

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	48.55	1000	48.55	1000*
0	0	0	0	0.52	48.45	133	48.42	134
30	0	0	0	0.52	48.59	133	48.57	133
40	0	0	0	0.52	48.63	133	48.61	133
50	0	0	0	0.52	48.67	133	48.65	133
60	0	0	0	0.52	48.7	133	48.69	133
70	0	0	0	0.52	48.73	133	48.73	133
80	0	0	0	0.52	48.75	133	48.75	133
90	0	0	0	0.52	48.78	133	48.78	133
100	0	0	0	0.52	48.81	133	48.81	133
110	0	0	0	0.52	48.84	133	48.84	133
120	0	0	0	0.52	48.86	133	48.86	133
130	0	0	0	0.52	48.89	132	48.89	132
167	0	0	0	0.52	48.99	132	48.99	132
212	0	0	0	0.52	49.11	132	49.11	132

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	96.53	1000	96.53	1000*
0	0	0	0	0.52	96.43	133	96.4	133
30	0	0	0	0.52	96.57	133	96.55	133
40	0	0	0	0.52	96.61	133	96.59	133
50	0	0	0	0.52	96.65	133	96.63	133
60	0	0	0	0.52	96.67	133	96.67	133
70	0	0	0	0.52	96.7	133	96.7	133
80	0	0	0	0.52	96.73	133	96.73	133
90	0	0	0	0.52	96.75	133	96.75	133
100	0	0	0	0.52	96.78	133	96.78	133
110	0	0	0	0.52	96.81	133	96.81	133
120	0	0	0	0.52	96.83	133	96.83	133
130	0	0	0	0.52	96.86	133	96.86	133
167	0	0	0	0.52	96.96	133	96.96	133
212	0	0	0	0.52	97.08	133	97.08	133

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.84

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2- 9	2- 9	2-10	2-10	2-10	2-10	2-11	2-11	2-11	2-11
100.00	4-11	4-11	5- 0	5- 0	5- 1	5- 1	5- 2	5- 2	5- 2	5- 2
125.00	7- 8	7- 9	7-10	7-10	7-11	8- 0	8- 0	8- 1	8- 1	8- 2
150.00	11- 1	11- 2	11- 3	11- 4	11- 5	11- 6	11- 7	11- 8	11- 8	11- 9
175.00	15- 1	15- 3	15- 5	15- 6	15- 8	15- 9	15-10	15-11	16- 0	16- 1
200.00	19- 9	20- 0	20- 2	20- 4	20- 6	20- 7	20- 9	20-10	20-11	21- 1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2- 9	2- 9	2-10	2-10	2-10	2-10	2-11	2-11	2-11	2-11
100.00	4-11	5- 0	5- 0	5- 1	5- 1	5- 1	5- 2	5- 2	5- 2	5- 2
125.00	7- 8	7- 9	7-10	7-11	7-11	8- 0	8- 0	8- 1	8- 1	8- 2
150.00	11- 1	11- 3	11- 4	11- 5	11- 6	11- 6	11- 7	11- 8	11- 8	11- 9
175.00	15- 2	15- 4	15- 5	15- 7	15- 8	15- 9	15-10	15-11	16- 0	16- 1
200.00	19-11	20- 1	20- 3	20- 5	20- 6	20- 7	20- 9	20-10	20-11	21- 1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.85

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	5- 0	5- 0	5- 1	5- 1	5- 1	5- 1	5- 1	5- 1	5- 1	5- 1
125.00	7-10	7-11	7-11	7-11	7-11	7-11	7-11	8- 0	8- 0	8- 0
150.00	11- 4	11- 5	11- 5	11- 5	11- 5	11- 6	11- 6	11- 6	11- 6	11- 6
175.00	15- 6	15- 6	15- 7	15- 7	15- 7	15- 8	15- 8	15- 8	15- 9	15- 9
200.00	20- 4	20- 4	20- 5	20- 5	20- 6	20- 6	20- 6	20- 7	20- 7	20- 7
225.00	25- 9	25-10	25-11	25-11	26- 0	26- 1	26- 1	26- 1	26- 2	26- 2
250.00	31-11	32- 0	32- 1	32- 2	32- 3	32- 3	32- 4	32- 4	32- 5	32- 5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	5- 0	5- 0	5- 1	5- 1	5- 1	5- 1	5- 1	5- 1	5- 1	5- 1
125.00	7-10	7-11	7-11	7-11	7-11	7-11	7-11	8- 0	8- 0	8- 0
150.00	11- 4	11- 5	11- 5	11- 5	11- 5	11- 6	11- 6	11- 6	11- 6	11- 6
175.00	15- 6	15- 7	15- 7	15- 7	15- 8	15- 8	15- 8	15- 8	15- 9	15- 9
200.00	20- 4	20- 4	20- 5	20- 5	20- 6	20- 6	20- 6	20- 7	20- 7	20- 7
225.00	25-10	25-10	25-11	26- 0	26- 0	26- 1	26- 1	26- 1	26- 2	26- 2
250.00	32- 0	32- 1	32- 2	32- 2	32- 3	32- 3	32- 4	32- 4	32- 5	32- 5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.86

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	11-10	11-10	11-10	11-10	11-11	11-11	11-11	11-11	11-11	11-11
175.00	16- 2	16- 2	16- 2	16- 2	16- 3	16- 3	16- 3	16- 3	16- 3	16- 3
200.00	21- 2	21- 2	21- 3	21- 3	21- 3	21- 3	21- 3	21- 3	21- 4	21- 4
225.00	26-11	26-11	26-11	27- 0	27- 0	27- 0	27- 0	27- 1	27- 1	27- 1
250.00	33- 4	33- 5	33- 5	33- 5	33- 6	33- 6	33- 6	33- 6	33- 7	33- 7
275.00	40- 7	40- 7	40- 8	40- 8	40- 8	40- 9	40- 9	40- 9	40-10	40-10
300.00	48- 6	48- 7	48- 7	48- 8	48- 8	48- 9	48- 9	48- 9	48-10	48-10
325.00	57- 3	57- 4	57- 5	57- 5	57- 6	57- 6	57- 7	57- 7	57- 7	57- 8
350.00	66-10	66-11	66-11	67- 0	67- 1	67- 1	67- 2	67- 2	67- 3	67- 3
375.00	77- 2	77- 3	77- 4	77- 5	77- 6	77- 7	77- 7	77- 8	77- 8	77- 9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	11-10	11-10	11-10	11-10	11-11	11-11	11-11	11-11	11-11	11-11
175.00	16- 2	16- 2	16- 2	16- 3	16- 3	16- 3	16- 3	16- 3	16- 3	16- 3
200.00	21- 2	21- 2	21- 3	21- 3	21- 3	21- 3	21- 3	21- 3	21- 4	21- 4
225.00	26-11	26-11	27- 0	27- 0	27- 0	27- 0	27- 0	27- 1	27- 1	27- 1
250.00	33- 5	33- 5	33- 5	33- 6	33- 6	33- 6	33- 6	33- 6	33- 7	33- 7
275.00	40- 7	40- 7	40- 8	40- 8	40- 8	40- 9	40- 9	40- 9	40-10	40-10
300.00	48- 7	48- 7	48- 8	48- 8	48- 8	48- 9	48- 9	48- 9	48-10	48-10
325.00	57- 4	57- 4	57- 5	57- 5	57- 6	57- 6	57- 7	57- 7	57- 7	57- 8
350.00	66-10	66-11	67- 0	67- 0	67- 1	67- 1	67- 2	67- 2	67- 3	67- 3
375.00	77- 3	77- 4	77- 5	77- 5	77- 6	77- 7	77- 7	77- 8	77- 8	77- 9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.87

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	22-11	22-11	22-11	23- 0	23- 0	23- 0	23- 0	23- 0	23- 0	23- 0
225.00	29- 2	29- 2	29- 2	29- 2	29- 3	29- 3	29- 3	29- 3	29- 3	29- 3
250.00	36- 2	36- 2	36- 3	36- 3	36- 3	36- 3	36- 3	36- 3	36- 3	36- 3
275.00	44- 0	44- 1	44- 1	44- 1	44- 1	44- 1	44- 1	44- 2	44- 2	44- 2
300.00	52- 9	52- 9	52- 9	52- 9	52-10	52-10	52-10	52-10	52-10	52-10
325.00	62- 3	62- 4	62- 4	62- 4	62- 4	62- 5	62- 5	62- 5	62- 5	62- 6
350.00	72- 9	72- 9	72-10	72-10	72-10	72-11	72-11	72-11	72-11	72-11
375.00	84- 2	84- 2	84- 2	84- 3	84- 3	84- 4	84- 4	84- 4	84- 4	84- 5
400.00	96- 6	96- 7	96- 7	96- 8	96- 8	96- 8	96- 9	96- 9	96- 9	96-10
425.00	109-11	109-11	110- 0	110- 0	110- 1	110- 1	110- 2	110- 2	110- 2	110- 3
450.00	124- 4	124- 5	124- 5	124- 6	124- 7	124- 7	124- 7	124- 8	124- 8	124- 9
475.00	139-10	139-11	140- 0	140- 1	140- 1	140- 2	140- 2	140- 3	140- 3	140- 4
500.00	156- 6	156- 7	156- 8	156- 9	156-10	156-11	156-11	157- 0	157- 0	157- 1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	22-11	22-11	23- 0	23- 0	23- 0	23- 0	23- 0	23- 0	23- 0	23- 0
225.00	29- 2	29- 2	29- 2	29- 2	29- 3	29- 3	29- 3	29- 3	29- 3	29- 3
250.00	36- 2	36- 2	36- 3	36- 3	36- 3	36- 3	36- 3	36- 3	36- 3	36- 3
275.00	44- 0	44- 1	44- 1	44- 1	44- 1	44- 1	44- 1	44- 2	44- 2	44- 2
300.00	52- 9	52- 9	52- 9	52- 9	52-10	52-10	52-10	52-10	52-10	52-10
325.00	62- 3	62- 4	62- 4	62- 4	62- 5	62- 5	62- 5	62- 5	62- 5	62- 6
350.00	72- 9	72- 9	72-10	72-10	72-10	72-11	72-11	72-11	72-11	72-11
375.00	84- 2	84- 2	84- 3	84- 3	84- 3	84- 4	84- 4	84- 4	84- 4	84- 5
400.00	96- 6	96- 7	96- 7	96- 8	96- 8	96- 8	96- 9	96- 9	96- 9	96-10
425.00	109-11	110- 0	110- 0	110- 1	110- 1	110- 1	110- 2	110- 2	110- 2	110- 3
450.00	124- 4	124- 5	124- 6	124- 6	124- 7	124- 7	124- 7	124- 8	124- 8	124- 9
475.00	139-11	139-11	140- 0	140- 1	140- 1	140- 2	140- 2	140- 3	140- 3	140- 4
500.00	156- 7	156- 8	156- 9	156-10	156-10	156-11	156-11	157- 0	157- 0	157- 1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.88

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	3.27	1500	3.27	1500*
0	0	0	0	0.52	3.06	213	3	218
30	0	0	0	0.52	3.26	200	3.22	202
40	0	0	0	0.52	3.32	196	3.29	199
50	0	0	0	0.52	3.38	193	3.34	195
60	0	0	0	0.52	3.42	191	3.4	192
70	0	0	0	0.52	3.46	189	3.46	189
80	0	0	0	0.52	3.5	187	3.5	187
90	0	0	0	0.52	3.54	185	3.54	185
100	0	0	0	0.52	3.58	183	3.58	183
110	0	0	0	0.52	3.61	181	3.61	181
120	0	0	0	0.52	3.65	179	3.65	179
130	0	0	0	0.52	3.69	177	3.69	177
167	0	0	0	0.52	3.82	171	3.82	171
212	0	0	0	0.52	3.97	165	3.97	165

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	13.24	1500	13.24	1500*
0	0	0	0	0.52	13.03	203	12.97	204
30	0	0	0	0.52	13.23	200	13.2	200
40	0	0	0	0.52	13.3	199	13.26	200
50	0	0	0	0.52	13.36	198	13.32	199
60	0	0	0	0.52	13.4	198	13.38	198
70	0	0	0	0.52	13.44	197	13.44	197
80	0	0	0	0.52	13.48	196	13.48	196
90	0	0	0	0.52	13.52	196	13.52	196
100	0	0	0	0.52	13.56	195	13.56	195
110	0	0	0	0.52	13.6	195	13.6	195
120	0	0	0	0.52	13.64	194	13.64	194
130	0	0	0	0.52	13.68	194	13.68	194
167	0	0	0	0.52	13.83	192	13.83	192
212	0	0	0	0.52	14.01	189	14.01	189

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.89

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	30.49	1500	30.49	1500*
0	0	0	0	0.52	30.29	201	30.23	201
30	0	0	0	0.52	30.49	200	30.45	200
40	0	0	0	0.52	30.55	199	30.51	200
50	0	0	0	0.52	30.61	199	30.57	199
60	0	0	0	0.52	30.65	199	30.63	199
70	0	0	0	0.52	30.69	199	30.69	199
80	0	0	0	0.52	30.73	198	30.73	198
90	0	0	0	0.52	30.78	198	30.78	198
100	0	0	0	0.52	30.82	198	30.82	198
110	0	0	0	0.52	30.86	198	30.86	198
120	0	0	0	0.52	30.9	197	30.9	197
130	0	0	0	0.52	30.94	197	30.94	197
167	0	0	0	0.52	31.09	196	31.09	196
212	0	0	0	0.52	31.27	195	31.27	195

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	56.18	1500	56.18	1500*
0	0	0	0	0.52	55.98	200	55.92	201
30	0	0	0	0.52	56.17	200	56.14	200
40	0	0	0	0.52	56.24	200	56.2	200
50	0	0	0	0.52	56.3	199	56.26	200
60	0	0	0	0.52	56.34	199	56.32	199
70	0	0	0	0.52	56.38	199	56.38	199
80	0	0	0	0.52	56.42	199	56.42	199
90	0	0	0	0.52	56.46	199	56.46	199
100	0	0	0	0.52	56.51	199	56.51	199
110	0	0	0	0.52	56.55	199	56.55	199
120	0	0	0	0.52	56.59	199	56.59	199
130	0	0	0	0.52	56.63	198	56.63	198
167	0	0	0	0.52	56.78	198	56.78	198
212	0	0	0	0.52	56.96	197	56.96	197

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.90

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	92.59	1500	92.59	1500*
0	0	0	0	0.52	92.39	200	92.33	200
30	0	0	0	0.52	92.58	200	92.55	200
40	0	0	0	0.52	92.65	200	92.61	200
50	0	0	0	0.52	92.71	200	92.67	200
60	0	0	0	0.52	92.75	200	92.73	200
70	0	0	0	0.52	92.79	199	92.79	200
80	0	0	0	0.52	92.83	199	92.83	199
90	0	0	0	0.52	92.87	199	92.87	199
100	0	0	0	0.52	92.91	199	92.91	199
110	0	0	0	0.52	92.95	199	92.95	199
120	0	0	0	0.52	92.99	199	92.99	199
130	0	0	0	0.52	93.04	199	93.04	199
167	0	0	0	0.52	93.19	199	93.19	199
212	0	0	0	0.52	93.37	199	93.37	199

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.91

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-9	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0	2-0
100.00	3-2	3-3	3-3	3-4	3-5	3-6	3-6	3-6	3-7	3-7
125.00	4-11	5-0	5-2	5-3	5-4	5-5	5-6	5-6	5-7	5-8
150.00	7-1	7-3	7-5	7-6	7-8	7-10	7-11	8-0	8-1	8-2
175.00	9-8	9-11	10-1	10-3	10-5	10-8	10-9	10-10	11-0	11-1
200.00	12-8	12-11	13-2	13-5	13-8	13-11	14-1	14-3	14-4	14-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-10	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0	2-0
100.00	3-2	3-3	3-4	3-5	3-5	3-6	3-6	3-6	3-7	3-7
125.00	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-6	5-7	5-8
150.00	7-3	7-4	7-6	7-7	7-9	7-10	7-11	8-0	8-1	8-2
175.00	9-10	10-0	10-2	10-5	10-6	10-8	10-9	10-10	11-0	11-1
200.00	12-10	13-1	13-4	13-7	13-9	13-11	14-1	14-3	14-4	14-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.92

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-3	3-3	3-4	3-4	3-4	3-4	3-4	3-4	3-5	3-5
125.00	5-1	5-2	5-2	5-2	5-2	5-3	5-3	5-3	5-3	5-4
150.00	7-4	7-5	7-5	7-6	7-6	7-6	7-7	7-7	7-7	7-8
175.00	10-0	10-1	10-2	10-2	10-3	10-3	10-4	10-4	10-4	10-5
200.00	13-1	13-2	13-3	13-4	13-5	13-5	13-6	13-6	13-7	13-7
225.00	16-8	16-9	16-10	16-11	16-11	17-0	17-1	17-2	17-2	17-3
250.00	20-7	20-8	20-9	20-11	21-0	21-1	21-2	21-2	21-3	21-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-3	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-5	3-5
125.00	5-2	5-2	5-2	5-2	5-3	5-3	5-3	5-3	5-3	5-4
150.00	7-5	7-5	7-6	7-6	7-6	7-6	7-7	7-7	7-7	7-8
175.00	10-1	10-1	10-2	10-3	10-3	10-3	10-4	10-4	10-4	10-5
200.00	13-2	13-3	13-4	13-4	13-5	13-5	13-6	13-6	13-7	13-7
225.00	16-8	16-9	16-10	16-11	17-0	17-0	17-1	17-2	17-2	17-3
250.00	20-8	20-9	20-10	20-11	21-0	21-1	21-2	21-2	21-3	21-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.93

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-6	7-6	7-7	7-7	7-7	7-7	7-7	7-7	7-8	7-8
175.00	10-3	10-3	10-3	10-4	10-4	10-4	10-4	10-5	10-5	10-5
200.00	13-5	13-5	13-6	13-6	13-6	13-6	13-7	13-7	13-7	13-7
225.00	17-0	17-0	17-1	17-1	17-2	17-2	17-2	17-3	17-3	17-3
250.00	21-0	21-1	21-1	21-2	21-2	21-3	21-3	21-3	21-4	21-4
275.00	25-6	25-6	25-7	25-8	25-8	25-9	25-9	25-10	25-10	25-10
300.00	30-4	30-5	30-6	30-7	30-8	30-8	30-9	30-9	30-10	30-10
325.00	35-9	35-10	35-11	36-0	36-0	36-1	36-2	36-2	36-3	36-4
350.00	41-6	41-8	41-9	41-10	41-11	42-0	42-0	42-1	42-2	42-3
375.00	47-10	47-11	48-0	48-2	48-3	48-4	48-5	48-5	48-6	48-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-6	7-7	7-7	7-7	7-7	7-7	7-7	7-7	7-8	7-8
175.00	10-3	10-3	10-4	10-4	10-4	10-4	10-4	10-5	10-5	10-5
200.00	13-5	13-5	13-6	13-6	13-6	13-6	13-7	13-7	13-7	13-7
225.00	17-0	17-1	17-1	17-1	17-2	17-2	17-2	17-3	17-3	17-3
250.00	21-0	21-1	21-2	21-2	21-2	21-3	21-3	21-3	21-4	21-4
275.00	25-6	25-7	25-7	25-8	25-8	25-9	25-9	25-10	25-10	25-10
300.00	30-5	30-6	30-7	30-7	30-8	30-8	30-9	30-9	30-10	30-10
325.00	35-9	35-10	35-11	36-0	36-1	36-1	36-2	36-2	36-3	36-4
350.00	41-7	41-8	41-9	41-10	41-11	42-0	42-0	42-1	42-2	42-3
375.00	47-11	48-0	48-1	48-2	48-3	48-4	48-5	48-5	48-6	48-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.94

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	13-9	13-9	13-9	13-10	13-10	13-10	13-10	13-10	13-10	13-10
225.00	17-5	17-6	17-6	17-6	17-6	17-6	17-7	17-7	17-7	17-7
250.00	21-7	21-7	21-7	21-8	21-8	21-8	21-8	21-9	21-9	21-9
275.00	26-2	26-2	26-3	26-3	26-3	26-4	26-4	26-4	26-4	26-4
300.00	31-2	31-3	31-3	31-4	31-4	31-4	31-5	31-5	31-5	31-5
325.00	36-8	36-9	36-9	36-10	36-10	36-11	36-11	36-11	37-0	37-0
350.00	42-8	42-9	42-9	42-10	42-10	42-11	42-11	43-0	43-0	43-0
375.00	49-2	49-2	49-3	49-4	49-4	49-5	49-5	49-6	49-6	49-7
400.00	56-1	56-2	56-2	56-3	56-4	56-5	56-5	56-6	56-6	56-7
425.00	63-6	63-7	63-8	63-9	63-9	63-10	63-11	63-11	64-0	64-1
450.00	71-5	71-6	71-7	71-8	71-9	71-10	71-11	71-11	72-0	72-1
475.00	79-10	80-0	80-1	80-2	80-3	80-4	80-5	80-5	80-6	80-7
500.00	88-10	88-11	89-1	89-2	89-3	89-4	89-5	89-6	89-7	89-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	13-9	13-9	13-10	13-10	13-10	13-10	13-10	13-10	13-10	13-10
225.00	17-5	17-6	17-6	17-6	17-6	17-6	17-7	17-7	17-7	17-7
250.00	21-7	21-7	21-8	21-8	21-8	21-8	21-8	21-9	21-9	21-9
275.00	26-2	26-2	26-3	26-3	26-3	26-4	26-4	26-4	26-4	26-4
300.00	31-3	31-3	31-3	31-4	31-4	31-4	31-5	31-5	31-5	31-5
325.00	36-9	36-9	36-10	36-10	36-11	36-11	36-11	36-11	37-0	37-0
350.00	42-9	42-9	42-10	42-10	42-11	42-11	42-11	43-0	43-0	43-0
375.00	49-2	49-3	49-3	49-4	49-4	49-5	49-5	49-6	49-6	49-7
400.00	56-1	56-2	56-3	56-4	56-4	56-5	56-5	56-6	56-6	56-7
425.00	63-7	63-7	63-8	63-9	63-10	63-10	63-11	63-11	64-0	64-1
450.00	71-6	71-7	71-8	71-9	71-9	71-10	71-11	71-11	72-0	72-1
475.00	79-11	80-0	80-1	80-2	80-3	80-4	80-5	80-5	80-6	80-7
500.00	88-11	89-0	89-1	89-2	89-3	89-4	89-5	89-6	89-7	89-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.95

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	22-5	22-5	22-5	22-5	22-6	22-6	22-6	22-6	22-6	22-6
275.00	27-2	27-2	27-2	27-3	27-3	27-3	27-3	27-3	27-4	27-4
300.00	32-5	32-5	32-5	32-6	32-6	32-6	32-6	32-7	32-7	32-7
325.00	38-2	38-2	38-2	38-3	38-3	38-3	38-3	38-4	38-4	38-4
350.00	44-4	44-5	44-5	44-5	44-6	44-6	44-6	44-7	44-7	44-7
375.00	51-1	51-1	51-2	51-2	51-3	51-3	51-3	51-3	51-4	51-4
400.00	58-4	58-4	58-5	58-5	58-5	58-6	58-6	58-7	58-7	58-7
425.00	66-1	66-1	66-2	66-2	66-3	66-3	66-4	66-4	66-4	66-5
450.00	74-4	74-4	74-5	74-6	74-6	74-7	74-7	74-8	74-8	74-8
475.00	83-1	83-2	83-3	83-4	83-4	83-5	83-5	83-6	83-6	83-7
500.00	92-6	92-7	92-7	92-8	92-9	92-9	92-10	92-10	92-11	92-11
525.00	102-5	102-6	102-6	102-7	102-8	102-9	102-9	102-10	102-11	102-11
550.00	112-10	113-0	113-0	113-1	113-2	113-3	113-4	113-4	113-5	113-6
575.00	123-11	124-1	124-2	124-3	124-4	124-4	124-5	124-6	124-7	124-7
600.00	135-7	135-9	135-10	135-11	136-0	136-1	136-2	136-3	136-3	136-4
625.00	147-11	148-0	148-2	148-3	148-4	148-5	148-6	148-7	148-8	148-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	22-5	22-5	22-5	22-6	22-6	22-6	22-6	22-6	22-6	22-6
275.00	27-2	27-2	27-3	27-3	27-3	27-3	27-3	27-3	27-4	27-4
300.00	32-5	32-5	32-6	32-6	32-6	32-6	32-6	32-7	32-7	32-7
325.00	38-2	38-2	38-2	38-3	38-3	38-3	38-3	38-4	38-4	38-4
350.00	44-5	44-5	44-5	44-6	44-6	44-6	44-6	44-7	44-7	44-7
375.00	51-1	51-2	51-2	51-2	51-3	51-3	51-3	51-3	51-4	51-4
400.00	58-4	58-4	58-5	58-5	58-6	58-6	58-6	58-7	58-7	58-7
425.00	66-1	66-1	66-2	66-2	66-3	66-3	66-4	66-4	66-4	66-5
450.00	74-4	74-5	74-5	74-6	74-6	74-7	74-7	74-8	74-8	74-8
475.00	83-2	83-3	83-3	83-4	83-4	83-5	83-5	83-6	83-6	83-7
500.00	92-6	92-7	92-8	92-8	92-9	92-9	92-10	92-10	92-11	92-11
525.00	102-5	102-6	102-7	102-8	102-8	102-9	102-9	102-10	102-11	102-11
550.00	112-11	113-0	113-1	113-2	113-3	113-3	113-4	113-4	113-5	113-6
575.00	124-0	124-1	124-2	124-3	124-4	124-5	124-5	124-6	124-7	124-7
600.00	135-8	135-9	135-11	136-0	136-0	136-1	136-2	136-3	136-3	136-4
625.00	148-0	148-1	148-2	148-3	148-4	148-5	148-6	148-7	148-8	148-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.96

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	2.45	2000	2.45	2000*
0	0	0	0	0.52	2.09	312	1.98	329
30	0	0	0	0.52	2.35	277	2.29	285
40	0	0	0	0.52	2.44	267	2.37	275
50	0	0	0	0.52	2.52	259	2.45	266
60	0	0	0	0.52	2.57	254	2.52	258
70	0	0	0	0.52	2.62	249	2.6	251
80	0	0	0	0.52	2.67	244	2.67	244
90	0	0	0	0.52	2.72	240	2.72	240
100	0	0	0	0.52	2.77	236	2.77	236
110	0	0	0	0.52	2.81	232	2.81	232
120	0	0	0	0.52	2.86	228	2.86	228
130	0	0	0	0.52	2.9	225	2.9	225
167	0	0	0	0.52	3.07	213	3.07	213
212	0	0	0	0.52	3.25	201	3.25	201

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	9.85	2000	9.85	2000*
0	0	0	0	0.52	9.51	276	9.4	279
30	0	0	0	0.52	9.76	269	9.69	271
40	0	0	0	0.52	9.84	267	9.78	269
50	0	0	0	0.52	9.93	265	9.86	266
60	0	0	0	0.52	9.98	263	9.93	264
70	0	0	0	0.52	10.04	262	10.01	262
80	0	0	0	0.52	10.09	260	10.09	260
90	0	0	0	0.52	10.15	259	10.15	259
100	0	0	0	0.52	10.2	258	10.2	258
110	0	0	0	0.52	10.25	256	10.25	256
120	0	0	0	0.52	10.3	255	10.3	255
130	0	0	0	0.52	10.36	254	10.36	254
167	0	0	0	0.52	10.55	249	10.55	249
212	0	0	0	0.52	10.78	244	10.78	244

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.97

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	22.45	2000	22.45	2000*
0	0	0	0	0.52	22.11	270	22	272
30	0	0	0	0.52	22.36	267	22.29	268
40	0	0	0	0.52	22.44	267	22.37	267
50	0	0	0	0.52	22.52	266	22.45	266
60	0	0	0	0.52	22.58	265	22.53	266
70	0	0	0	0.52	22.64	264	22.61	265
80	0	0	0	0.52	22.69	264	22.69	264
90	0	0	0	0.52	22.75	263	22.75	263
100	0	0	0	0.52	22.8	263	22.8	263
110	0	0	0	0.52	22.86	262	22.86	262
120	0	0	0	0.52	22.91	261	22.91	261
130	0	0	0	0.52	22.96	261	22.96	261
167	0	0	0	0.52	23.16	259	23.16	259
212	0	0	0	0.52	23.4	256	23.4	256

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	40.65	2000	40.65	2000*
0	0	0	0	0.52	40.31	268	40.21	269
30	0	0	0	0.52	40.56	267	40.5	267
40	0	0	0	0.52	40.64	266	40.58	267
50	0	0	0	0.52	40.73	266	40.66	266
60	0	0	0	0.52	40.78	266	40.74	266
70	0	0	0	0.52	40.84	265	40.81	265
80	0	0	0	0.52	40.89	265	40.89	265
90	0	0	0	0.52	40.95	265	40.95	265
100	0	0	0	0.52	41.01	264	41.01	264
110	0	0	0	0.52	41.06	264	41.06	264
120	0	0	0	0.52	41.12	264	41.12	264
130	0	0	0	0.52	41.17	263	41.17	263
167	0	0	0	0.52	41.37	262	41.37	262
212	0	0	0	0.52	41.61	261	41.61	261

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.98

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	65.16	2000	65.16	2000*
0	0	0	0	0.52	64.82	268	64.71	268
30	0	0	0	0.52	65.07	267	65	267
40	0	0	0	0.52	65.15	266	65.08	267
50	0	0	0	0.52	65.23	266	65.16	266
60	0	0	0	0.52	65.29	266	65.24	266
70	0	0	0	0.52	65.34	266	65.32	266
80	0	0	0	0.52	65.4	266	65.4	266
90	0	0	0	0.52	65.46	265	65.46	265
100	0	0	0	0.52	65.51	265	65.51	265
110	0	0	0	0.52	65.57	265	65.57	265
120	0	0	0	0.52	65.62	265	65.62	265
130	0	0	0	0.52	65.67	265	65.67	265
167	0	0	0	0.52	65.88	264	65.88	264
212	0	0	0	0.52	66.12	263	66.12	263

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.99

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-3	1-4	1-5	1-5	1-6	1-6	1-6	1-7	1-7
100.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-9	2-10
125.00	3-5	3-7	3-8	3-10	3-11	4-1	4-2	4-3	4-4	4-5
150.00	4-11	5-2	5-4	5-6	5-8	5-10	6-0	6-1	6-3	6-4
175.00	6-9	7-0	7-3	7-6	7-9	8-0	8-2	8-4	8-6	8-8
200.00	8-10	9-2	9-6	9-10	10-1	10-5	10-8	10-11	11-1	11-3

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7	1-7
100.00	2-3	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-9	2-10
125.00	3-7	3-8	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5
150.00	5-1	5-4	5-6	5-8	5-9	5-11	6-0	6-1	6-3	6-4
175.00	6-11	7-3	7-6	7-9	7-11	8-0	8-2	8-4	8-6	8-8
200.00	9-1	9-5	9-9	10-1	10-4	10-6	10-8	10-11	11-1	11-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.100

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-5	2-5	2-5	2-5	2-6	2-6	2-6	2-6	2-7	2-7
125.00	3-9	3-9	3-10	3-10	3-10	3-11	3-11	3-11	4-0	4-0
150.00	5-5	5-5	5-6	5-6	5-7	5-7	5-8	5-8	5-9	5-9
175.00	7-4	7-5	7-6	7-6	7-7	7-8	7-9	7-9	7-10	7-10
200.00	9-7	9-8	9-9	9-10	9-11	10-0	10-1	10-2	10-2	10-3
225.00	12-2	12-3	12-5	12-6	12-7	12-8	12-9	12-10	12-11	13-0
250.00	15-0	15-2	15-4	15-5	15-7	15-8	15-10	15-11	16-0	16-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-5	2-5	2-5	2-6	2-6	2-6	2-6	2-6	2-7	2-7
125.00	3-9	3-10	3-10	3-10	3-11	3-11	3-11	3-11	4-0	4-0
150.00	5-5	5-6	5-6	5-7	5-7	5-8	5-8	5-8	5-9	5-9
175.00	7-5	7-6	7-6	7-7	7-8	7-8	7-9	7-9	7-10	7-10
200.00	9-8	9-9	9-10	9-11	10-0	10-0	10-1	10-2	10-2	10-3
225.00	12-3	12-4	12-6	12-7	12-8	12-9	12-9	12-10	12-11	13-0
250.00	15-2	15-3	15-5	15-6	15-8	15-9	15-10	15-11	16-0	16-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.101

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-6	5-7	5-7	5-7	5-7	5-7	5-8	5-8	5-8	5-8
175.00	7-6	7-7	7-7	7-7	7-8	7-8	7-8	7-8	7-9	7-9
200.00	9-10	9-10	9-11	9-11	10-0	10-0	10-1	10-1	10-1	10-1
225.00	12-5	12-6	12-7	12-7	12-8	12-8	12-9	12-9	12-9	12-10
250.00	15-5	15-5	15-6	15-7	15-7	15-8	15-9	15-9	15-10	15-10
275.00	18-8	18-9	18-9	18-10	18-11	19-0	19-1	19-1	19-2	19-2
300.00	22-2	22-3	22-4	22-5	22-6	22-7	22-8	22-9	22-10	22-10
325.00	26-1	26-2	26-3	26-5	26-6	26-7	26-8	26-9	26-10	26-10
350.00	30-4	30-5	30-6	30-8	30-9	30-10	31-0	31-1	31-1	31-2
375.00	34-10	35-0	35-1	35-3	35-4	35-6	35-7	35-8	35-9	35-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-6	5-7	5-7	5-7	5-7	5-8	5-8	5-8	5-8	5-8
175.00	7-7	7-7	7-7	7-8	7-8	7-8	7-8	7-8	7-9	7-9
200.00	9-10	9-11	9-11	10-0	10-0	10-0	10-1	10-1	10-1	10-1
225.00	12-6	12-6	12-7	12-8	12-8	12-8	12-9	12-9	12-9	12-10
250.00	15-5	15-6	15-7	15-7	15-8	15-8	15-9	15-9	15-10	15-10
275.00	18-8	18-9	18-10	18-11	18-11	19-0	19-1	19-1	19-2	19-2
300.00	22-3	22-4	22-5	22-6	22-7	22-8	22-8	22-9	22-10	22-10
325.00	26-2	26-3	26-4	26-6	26-6	26-7	26-8	26-9	26-10	26-10
350.00	30-5	30-6	30-8	30-9	30-10	30-11	31-0	31-1	31-1	31-2
375.00	34-11	35-1	35-3	35-4	35-5	35-6	35-7	35-8	35-9	35-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.102

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-0	10-0	10-1	10-1	10-1	10-1	10-1	10-2	10-2	10-2
225.00	12-8	12-8	12-9	12-9	12-9	12-10	12-10	12-10	12-10	12-10
250.00	15-8	15-8	15-9	15-9	15-9	15-10	15-10	15-10	15-11	15-11
275.00	19-0	19-0	19-1	19-1	19-1	19-2	19-2	19-3	19-3	19-3
300.00	22-7	22-8	22-8	22-9	22-9	22-10	22-10	22-11	22-11	23-0
325.00	26-7	26-7	26-8	26-9	26-9	26-10	26-10	26-11	26-11	27-0
350.00	30-10	30-11	31-0	31-0	31-1	31-2	31-3	31-3	31-4	31-4
375.00	35-5	35-6	35-7	35-8	35-9	35-10	35-11	35-11	36-0	36-0
400.00	40-5	40-6	40-7	40-8	40-9	40-10	40-11	40-11	41-0	41-1
425.00	45-8	45-10	45-11	46-0	46-1	46-2	46-3	46-4	46-4	46-5
450.00	51-4	51-5	51-6	51-8	51-9	51-10	51-11	52-0	52-1	52-2
475.00	57-3	57-5	57-6	57-8	57-9	57-10	58-0	58-1	58-2	58-3
500.00	63-7	63-9	63-11	64-0	64-2	64-3	64-5	64-6	64-7	64-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-0	10-0	10-1	10-1	10-1	10-1	10-1	10-2	10-2	10-2
225.00	12-8	12-9	12-9	12-9	12-9	12-10	12-10	12-10	12-10	12-10
250.00	15-8	15-9	15-9	15-9	15-10	15-10	15-10	15-10	15-11	15-11
275.00	19-0	19-0	19-1	19-1	19-2	19-2	19-2	19-3	19-3	19-3
300.00	22-8	22-8	22-9	22-9	22-10	22-10	22-10	22-11	22-11	23-0
325.00	26-7	26-8	26-9	26-9	26-10	26-10	26-10	26-11	26-11	27-0
350.00	30-11	31-0	31-0	31-1	31-2	31-2	31-3	31-3	31-4	31-4
375.00	35-6	35-7	35-8	35-9	35-9	35-10	35-11	35-11	36-0	36-0
400.00	40-6	40-7	40-8	40-9	40-9	40-10	40-11	40-11	41-0	41-1
425.00	45-9	45-10	46-0	46-1	46-1	46-2	46-3	46-4	46-4	46-5
450.00	51-5	51-6	51-7	51-9	51-10	51-10	51-11	52-0	52-1	52-2
475.00	57-5	57-6	57-8	57-9	57-10	57-11	58-0	58-1	58-2	58-3
500.00	63-9	63-10	64-0	64-1	64-3	64-4	64-5	64-6	64-7	64-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.103

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	16-0	16-0	16-0	16-0	16-1	16-1	16-1	16-1	16-1	16-1
275.00	19-4	19-4	19-5	19-5	19-5	19-6	19-6	19-6	19-6	19-6
300.00	23-1	23-1	23-1	23-2	23-2	23-2	23-3	23-3	23-3	23-3
325.00	27-1	27-1	27-2	27-2	27-3	27-3	27-3	27-4	27-4	27-4
350.00	31-6	31-6	31-6	31-7	31-7	31-8	31-8	31-9	31-9	31-9
375.00	36-2	36-3	36-3	36-4	36-4	36-5	36-5	36-6	36-6	36-6
400.00	41-3	41-3	41-4	41-5	41-5	41-6	41-6	41-7	41-7	41-8
425.00	46-7	46-8	46-9	46-10	46-10	46-11	47-0	47-0	47-1	47-1
450.00	52-4	52-5	52-6	52-7	52-8	52-8	52-9	52-10	52-10	52-11
475.00	58-6	58-6	58-7	58-8	58-9	58-10	58-11	58-11	59-0	59-1
500.00	64-11	65-0	65-1	65-2	65-3	65-4	65-5	65-5	65-6	65-7
525.00	71-9	71-10	71-11	72-0	72-1	72-2	72-3	72-4	72-5	72-5
550.00	78-11	79-0	79-1	79-2	79-4	79-5	79-6	79-7	79-8	79-8
575.00	86-5	86-7	86-8	86-9	86-11	87-0	87-1	87-2	87-3	87-4
600.00	94-4	94-6	94-7	94-9	94-10	95-0	95-1	95-2	95-3	95-4
625.00	102-8	102-10	102-11	103-1	103-2	103-4	103-5	103-6	103-7	103-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	16-0	16-0	16-0	16-1	16-1	16-1	16-1	16-1	16-1	16-1
275.00	19-4	19-5	19-5	19-5	19-5	19-6	19-6	19-6	19-6	19-6
300.00	23-1	23-1	23-2	23-2	23-2	23-2	23-3	23-3	23-3	23-3
325.00	27-1	27-2	27-2	27-3	27-3	27-3	27-3	27-4	27-4	27-4
350.00	31-6	31-6	31-7	31-7	31-8	31-8	31-8	31-9	31-9	31-9
375.00	36-3	36-3	36-4	36-4	36-5	36-5	36-5	36-6	36-6	36-6
400.00	41-3	41-4	41-4	41-5	41-6	41-6	41-6	41-7	41-7	41-8
425.00	46-8	46-9	46-9	46-10	46-11	46-11	47-0	47-0	47-1	47-1
450.00	52-5	52-6	52-7	52-7	52-8	52-9	52-9	52-10	52-10	52-11
475.00	58-6	58-7	58-8	58-9	58-10	58-10	58-11	58-11	59-0	59-1
500.00	65-0	65-1	65-2	65-3	65-3	65-4	65-5	65-5	65-6	65-7
525.00	71-10	71-11	72-0	72-1	72-2	72-2	72-3	72-4	72-5	72-5
550.00	79-0	79-1	79-2	79-3	79-4	79-5	79-6	79-7	79-8	79-8
575.00	86-6	86-8	86-9	86-10	86-11	87-0	87-1	87-2	87-3	87-4
600.00	94-6	94-7	94-9	94-10	94-11	95-0	95-1	95-2	95-3	95-4
625.00	102-9	102-11	103-0	103-2	103-3	103-4	103-5	103-6	103-7	103-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.104

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	1.95	2500	1.95	2500*
0	0	0	0	0.52	1.37	474	1.24	524
30	0	0	0	0.52	1.73	376	1.61	403
40	0	0	0	0.52	1.84	354	1.72	378
50	0	0	0	0.52	1.94	335	1.83	356
60	0	0	0	0.52	2.01	325	1.93	338
70	0	0	0	0.52	2.07	315	2.02	322
80	0	0	0	0.52	2.12	306	2.11	308
90	0	0	0	0.52	2.19	298	2.19	298
100	0	0	0	0.52	2.24	290	2.24	290
110	0	0	0	0.52	2.3	283	2.3	283
120	0	0	0	0.52	2.35	277	2.35	277
130	0	0	0	0.52	2.41	271	2.41	271
167	0	0	0	0.52	2.6	251	2.6	251
212	0	0	0	0.52	2.81	232	2.81	232

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	7.86	2500	7.86	2500*
0	0	0	0	0.52	7.31	357	7.16	365
30	0	0	0	0.52	7.63	343	7.52	348
40	0	0	0	0.52	7.74	338	7.62	343
50	0	0	0	0.52	7.84	334	7.72	339
60	0	0	0	0.52	7.91	331	7.82	334
70	0	0	0	0.52	7.98	328	7.92	330
80	0	0	0	0.52	8.04	325	8.02	326
90	0	0	0	0.52	8.11	323	8.11	323
100	0	0	0	0.52	8.18	320	8.18	320
110	0	0	0	0.52	8.24	318	8.24	318
120	0	0	0	0.52	8.31	315	8.31	315
130	0	0	0	0.52	8.37	313	8.37	313
167	0	0	0	0.52	8.6	304	8.6	304
212	0	0	0	0.52	8.88	295	8.88	295

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.105

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	17.81	2500	17.81	2500*
0	0	0	0	0.52	17.28	343	17.13	346
30	0	0	0	0.52	17.59	337	17.48	339
40	0	0	0	0.52	17.7	335	17.58	337
50	0	0	0	0.52	17.8	333	17.68	335
60	0	0	0	0.52	17.87	332	17.78	334
70	0	0	0	0.52	17.94	331	17.88	332
80	0	0	0	0.52	18.01	330	17.98	330
90	0	0	0	0.52	18.08	328	18.08	328
100	0	0	0	0.52	18.14	327	18.14	327
110	0	0	0	0.52	18.21	326	18.21	326
120	0	0	0	0.52	18.28	325	18.28	325
130	0	0	0	0.52	18.35	324	18.35	324
167	0	0	0	0.52	18.59	320	18.59	320
212	0	0	0	0.52	18.88	315	18.88	315

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	32.03	2500	32.03	2500*
0	0	0	0	0.52	31.5	338	31.35	340
30	0	0	0	0.52	31.81	335	31.7	336
40	0	0	0	0.52	31.91	334	31.8	335
50	0	0	0	0.52	32.02	333	31.9	334
60	0	0	0	0.52	32.09	332	32	333
70	0	0	0	0.52	32.16	332	32.1	332
80	0	0	0	0.52	32.22	331	32.2	331
90	0	0	0	0.52	32.3	330	32.3	330
100	0	0	0	0.52	32.36	330	32.36	330
110	0	0	0	0.52	32.43	329	32.43	329
120	0	0	0	0.52	32.5	328	32.5	328
130	0	0	0	0.52	32.57	328	32.57	328
167	0	0	0	0.52	32.82	325	32.82	325
212	0	0	0	0.52	33.12	323	33.12	323

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.106

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	50.82	2500	50.82	2500*
0	0	0	0	0.52	50.29	336	50.14	337
30	0	0	0	0.52	50.6	334	50.49	335
40	0	0	0	0.52	50.7	334	50.59	334
50	0	0	0	0.52	50.8	333	50.69	334
60	0	0	0	0.52	50.87	333	50.79	333
70	0	0	0	0.52	50.94	332	50.89	333
80	0	0	0	0.52	51.01	332	50.99	332
90	0	0	0	0.52	51.08	331	51.08	331
100	0	0	0	0.52	51.15	331	51.15	331
110	0	0	0	0.52	51.22	331	51.22	331
120	0	0	0	0.52	51.29	330	51.29	330
130	0	0	0	0.52	51.36	330	51.36	330
167	0	0	0	0.52	51.61	328	51.61	328
212	0	0	0	0.52	51.91	327	51.91	327

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.107

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-3	1-4
100.00	1-6	1-7	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
125.00	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-5	3-6	3-7
150.00	3-4	3-8	3-11	4-1	4-4	4-7	4-9	4-11	5-1	5-2
175.00	4-7	4-11	5-3	5-7	5-11	6-2	6-6	6-8	6-11	7-1
200.00	6-0	6-5	6-11	7-4	7-9	8-1	8-6	8-9	9-0	9-3

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	1-0	1-0	1-1	1-2	1-2	1-2	1-3	1-3	1-4
100.00	1-7	1-9	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-4
125.00	2-6	2-8	2-10	3-0	3-2	3-3	3-4	3-5	3-6	3-7
150.00	3-8	3-11	4-2	4-4	4-6	4-8	4-9	4-11	5-1	5-2
175.00	5-0	5-4	5-8	5-11	6-2	6-4	6-6	6-8	6-11	7-1
200.00	6-6	6-11	7-4	7-9	8-0	8-3	8-6	8-9	9-0	9-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.108

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-11	1-11	1-11	1-11	2-0	2-0	2-0	2-0	2-1
125.00	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-2	3-3
150.00	4-2	4-3	4-3	4-4	4-5	4-5	4-6	4-7	4-7	4-8
175.00	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-3	6-4
200.00	7-5	7-6	7-7	7-9	7-10	7-11	8-0	8-1	8-2	8-3
225.00	9-5	9-6	9-8	9-9	9-11	10-0	10-2	10-3	10-4	10-5
250.00	11-7	11-9	11-11	12-1	12-3	12-5	12-7	12-8	12-10	12-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-11	1-11	1-11	1-11	2-0	2-0	2-0	2-0	2-0	2-1
125.00	2-11	3-0	3-0	3-1	3-1	3-1	3-2	3-2	3-2	3-3
150.00	4-3	4-3	4-4	4-5	4-5	4-6	4-6	4-7	4-7	4-8
175.00	5-9	5-10	5-11	6-0	6-1	6-1	6-2	6-3	6-3	6-4
200.00	7-6	7-8	7-9	7-10	7-11	8-0	8-1	8-1	8-2	8-3
225.00	9-6	9-8	9-10	9-11	10-0	10-1	10-2	10-3	10-4	10-5
250.00	11-9	11-11	12-1	12-3	12-4	12-6	12-7	12-8	12-10	12-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.109

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-4	4-4	4-5	4-5	4-5	4-5	4-6	4-6	4-6	4-6
175.00	5-11	5-11	6-0	6-0	6-0	6-1	6-1	6-2	6-2	6-2
200.00	7-8	7-9	7-10	7-10	7-11	7-11	8-0	8-0	8-1	8-1
225.00	9-9	9-10	9-10	9-11	10-0	10-0	10-1	10-2	10-2	10-3
250.00	12-1	12-1	12-2	12-3	12-4	12-5	12-6	12-6	12-7	12-8
275.00	14-7	14-8	14-9	14-10	14-11	15-0	15-1	15-2	15-3	15-3
300.00	17-5	17-6	17-7	17-8	17-9	17-11	18-0	18-1	18-2	18-3
325.00	20-5	20-6	20-8	20-9	20-11	21-0	21-1	21-3	21-4	21-5
350.00	23-8	23-10	24-0	24-1	24-3	24-5	24-6	24-8	24-9	24-10
375.00	27-3	27-5	27-7	27-8	27-10	28-0	28-2	28-4	28-5	28-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-4	4-5	4-5	4-5	4-5	4-6	4-6	4-6	4-6	4-6
175.00	5-11	6-0	6-0	6-0	6-1	6-1	6-1	6-2	6-2	6-2
200.00	7-9	7-10	7-10	7-11	7-11	7-11	8-0	8-0	8-1	8-1
225.00	9-10	9-11	9-11	10-0	10-0	10-1	10-1	10-2	10-2	10-3
250.00	12-2	12-2	12-3	12-4	12-5	12-5	12-6	12-6	12-7	12-8
275.00	14-8	14-9	14-10	14-11	15-0	15-1	15-1	15-2	15-3	15-3
300.00	17-6	17-7	17-8	17-10	17-10	17-11	18-0	18-1	18-2	18-3
325.00	20-6	20-8	20-9	20-11	21-0	21-1	21-2	21-3	21-4	21-5
350.00	23-10	24-0	24-2	24-3	24-4	24-5	24-7	24-8	24-9	24-10
375.00	27-5	27-7	27-9	27-11	28-0	28-1	28-3	28-4	28-5	28-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.110

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-10	7-11	7-11	7-11	7-11	8-0	8-0	8-0	8-0	8-1
225.00	9-11	10-0	10-0	10-0	10-1	10-1	10-2	10-2	10-2	10-2
250.00	12-3	12-4	12-4	12-5	12-5	12-6	12-6	12-7	12-7	12-7
275.00	14-10	14-11	15-0	15-0	15-1	15-1	15-2	15-2	15-3	15-3
300.00	17-9	17-9	17-10	17-11	17-11	18-0	18-1	18-1	18-2	18-2
325.00	20-10	20-10	20-11	21-0	21-1	21-2	21-2	21-3	21-4	21-4
350.00	24-2	24-3	24-4	24-5	24-5	24-6	24-7	24-8	24-9	24-9
375.00	27-9	27-10	27-11	28-0	28-1	28-2	28-3	28-4	28-5	28-6
400.00	31-7	31-8	31-10	31-11	32-0	32-1	32-2	32-4	32-4	32-5
425.00	35-9	35-10	35-11	36-1	36-2	36-3	36-5	36-6	36-7	36-8
450.00	40-1	40-2	40-4	40-6	40-7	40-9	40-10	41-0	41-1	41-2
475.00	44-9	44-10	45-0	45-2	45-3	45-5	45-7	45-8	45-10	45-11
500.00	49-7	49-9	49-11	50-1	50-3	50-5	50-7	50-8	50-10	50-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-11	7-11	7-11	7-11	8-0	8-0	8-0	8-0	8-0	8-1
225.00	10-0	10-0	10-0	10-1	10-1	10-1	10-2	10-2	10-2	10-2
250.00	12-4	12-4	12-5	12-5	12-6	12-6	12-6	12-7	12-7	12-7
275.00	14-11	15-0	15-0	15-1	15-1	15-2	15-2	15-2	15-3	15-3
300.00	17-9	17-10	17-11	17-11	18-0	18-0	18-1	18-1	18-2	18-2
325.00	20-10	20-11	21-0	21-1	21-1	21-2	21-3	21-3	21-4	21-4
350.00	24-3	24-4	24-5	24-6	24-6	24-7	24-7	24-8	24-9	24-9
375.00	27-10	27-11	28-0	28-1	28-2	28-3	28-4	28-4	28-5	28-6
400.00	31-8	31-10	31-11	32-0	32-1	32-2	32-3	32-4	32-4	32-5
425.00	35-10	35-11	36-1	36-2	36-3	36-4	36-5	36-6	36-7	36-8
450.00	40-3	40-4	40-6	40-7	40-8	40-9	40-11	41-0	41-1	41-2
475.00	44-10	45-0	45-2	45-4	45-5	45-6	45-7	45-8	45-10	45-11
500.00	49-9	49-11	50-1	50-3	50-4	50-6	50-7	50-8	50-10	50-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.111

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	12-6	12-6	12-6	12-7	12-7	12-7	12-7	12-8	12-8	12-8
275.00	15-1	15-2	15-2	15-2	15-3	15-3	15-3	15-4	15-4	15-4
300.00	18-0	18-0	18-1	18-1	18-2	18-2	18-2	18-3	18-3	18-3
325.00	21-2	21-2	21-3	21-3	21-4	21-4	21-4	21-5	21-5	21-6
350.00	24-6	24-7	24-7	24-8	24-9	24-9	24-10	24-10	24-11	24-11
375.00	28-2	28-3	28-3	28-4	28-5	28-5	28-6	28-7	28-7	28-8
400.00	32-1	32-2	32-3	32-3	32-4	32-5	32-6	32-6	32-7	32-7
425.00	36-3	36-4	36-5	36-6	36-7	36-8	36-8	36-9	36-10	36-10
450.00	40-9	40-9	40-10	40-11	41-0	41-1	41-2	41-3	41-4	41-5
475.00	45-5	45-6	45-7	45-8	45-9	45-10	45-11	46-1	46-1	46-2
500.00	50-5	50-6	50-7	50-8	50-9	50-11	51-0	51-1	51-2	51-3
525.00	55-8	55-9	55-10	56-0	56-1	56-2	56-3	56-5	56-6	56-7
550.00	61-2	61-3	61-5	61-6	61-7	61-9	61-10	62-0	62-1	62-2
575.00	66-11	67-1	67-2	67-4	67-5	67-7	67-9	67-10	67-11	68-0
600.00	73-0	73-1	73-3	73-5	73-7	73-9	73-10	74-0	74-1	74-2
625.00	79-4	79-6	79-8	79-10	79-11	80-1	80-3	80-5	80-6	80-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	12-6	12-6	12-7	12-7	12-7	12-7	12-7	12-8	12-8	12-8
275.00	15-2	15-2	15-2	15-3	15-3	15-3	15-3	15-4	15-4	15-4
300.00	18-0	18-1	18-1	18-2	18-2	18-2	18-2	18-3	18-3	18-3
325.00	21-2	21-3	21-3	21-4	21-4	21-4	21-5	21-5	21-5	21-6
350.00	24-7	24-8	24-8	24-9	24-9	24-9	24-10	24-10	24-11	24-11
375.00	28-3	28-4	28-4	28-5	28-5	28-6	28-6	28-7	28-7	28-8
400.00	32-2	32-3	32-4	32-4	32-5	32-5	32-6	32-6	32-7	32-7
425.00	36-4	36-5	36-6	36-7	36-7	36-8	36-9	36-9	36-10	36-10
450.00	40-10	40-11	41-0	41-1	41-1	41-2	41-3	41-3	41-4	41-5
475.00	45-6	45-7	45-8	45-9	45-10	45-11	46-0	46-1	46-1	46-2
500.00	50-6	50-7	50-8	50-10	50-10	50-11	51-0	51-1	51-2	51-3
525.00	55-9	55-10	56-0	56-1	56-2	56-3	56-4	56-5	56-6	56-7
550.00	61-3	61-5	61-6	61-8	61-9	61-10	61-11	62-0	62-1	62-2
575.00	67-1	67-2	67-4	67-6	67-7	67-8	67-9	67-10	67-11	68-0
600.00	73-2	73-3	73-5	73-7	73-8	73-9	73-11	74-0	74-1	74-2
625.00	79-6	79-8	79-10	80-0	80-1	80-2	80-4	80-5	80-6	80-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.112

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	3.904	1.63	3000	1.63	3000*
0	0	0	0	0.52	0.77	847	0.61	1057
30	0	0	0	0.52	1.22	531	1.04	628
40	0	0	0	0.52	1.36	478	1.18	553
50	0	0	0	0.52	1.49	437	1.31	497
60	0	0	0	0.52	1.57	414	1.43	454
70	0	0	0	0.52	1.64	396	1.55	419
80	0	0	0	0.52	1.71	380	1.67	391
90	0	0	0	0.52	1.78	366	1.77	367
100	0	0	0	0.52	1.85	352	1.85	352
110	0	0	0	0.52	1.91	340	1.91	340
120	0	0	0	0.52	1.97	330	1.97	330
130	0	0	0	0.52	2.04	320	2.04	320
167	0	0	0	0.52	2.25	289	2.25	289
212	0	0	0	0.52	2.49	261	2.49	261

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	3.904	6.53	3000	6.53	3000*
0	0	0	0	0.52	5.74	455	5.54	471
30	0	0	0	0.52	6.14	425	5.96	438
40	0	0	0	0.52	6.26	417	6.09	429
50	0	0	0	0.52	6.39	409	6.21	420
60	0	0	0	0.52	6.47	403	6.33	412
70	0	0	0	0.52	6.55	399	6.45	404
80	0	0	0	0.52	6.63	394	6.57	397
90	0	0	0	0.52	6.71	389	6.69	390
100	0	0	0	0.52	6.79	385	6.79	385
110	0	0	0	0.52	6.87	380	6.87	380
120	0	0	0	0.52	6.94	376	6.94	376
130	0	0	0	0.52	7.02	372	7.02	372
167	0	0	0	0.52	7.29	359	7.29	359
212	0	0	0	0.52	7.6	344	7.6	344

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.113

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	14.78	3000	14.78	3000*
0	0	0	0	0.52	14	421	13.81	427
30	0	0	0	0.52	14.39	410	14.21	415
40	0	0	0	0.52	14.51	407	14.34	412
50	0	0	0	0.52	14.63	404	14.46	408
60	0	0	0	0.52	14.72	401	14.58	405
70	0	0	0	0.52	14.8	399	14.7	402
80	0	0	0	0.52	14.88	397	14.82	399
90	0	0	0	0.52	14.96	395	14.94	395
100	0	0	0	0.52	15.05	393	15.05	393
110	0	0	0	0.52	15.12	391	15.12	391
120	0	0	0	0.52	15.2	389	15.2	389
130	0	0	0	0.52	15.28	387	15.28	387
167	0	0	0	0.52	15.57	380	15.57	380
212	0	0	0	0.52	15.92	372	15.92	372

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	26.48	3000	26.48	3000*
0	0	0	0	0.52	25.71	411	25.51	414
30	0	0	0	0.52	26.09	405	25.92	408
40	0	0	0	0.52	26.21	404	26.04	406
50	0	0	0	0.52	26.33	402	26.16	404
60	0	0	0	0.52	26.42	401	26.28	403
70	0	0	0	0.52	26.5	399	26.4	401
80	0	0	0	0.52	26.58	398	26.52	399
90	0	0	0	0.52	26.66	397	26.64	397
100	0	0	0	0.52	26.75	396	26.75	396
110	0	0	0	0.52	26.83	395	26.83	395
120	0	0	0	0.52	26.91	393	26.91	393
130	0	0	0	0.52	26.99	392	26.99	392
167	0	0	0	0.52	27.29	388	27.29	388
212	0	0	0	0.52	27.64	383	27.64	383

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.114

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	41.8	3000	41.8	3000*
0	0	0	0	0.52	41.03	407	40.84	409
30	0	0	0	0.52	41.41	403	41.24	405
40	0	0	0	0.52	41.53	402	41.36	404
50	0	0	0	0.52	41.65	401	41.48	403
60	0	0	0	0.52	41.74	400	41.6	401
70	0	0	0	0.52	41.82	399	41.72	400
80	0	0	0	0.52	41.9	399	41.84	399
90	0	0	0	0.52	41.98	398	41.96	398
100	0	0	0	0.52	42.07	397	42.07	397
110	0	0	0	0.52	42.15	396	42.15	396
120	0	0	0	0.52	42.23	396	42.23	396
130	0	0	0	0.52	42.32	395	42.32	395
167	0	0	0	0.52	42.61	392	42.61	392
212	0	0	0	0.52	42.98	389	42.98	389

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.115

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1
100.00	0-11	1-0	1-2	1-4	1-5	1-7	1-8	1-9	1-10	1-11
125.00	1-5	1-7	1-10	2-1	2-3	2-5	2-7	2-9	2-11	3-0
150.00	2-0	2-4	2-8	2-11	3-3	3-6	3-9	4-0	4-2	4-4
175.00	2-9	3-2	3-7	4-0	4-5	4-9	5-1	5-5	5-8	5-10
200.00	3-7	4-2	4-8	5-3	5-9	6-3	6-8	7-1	7-5	7-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-0	1-0	1-1
100.00	1-1	1-3	1-4	1-6	1-7	1-8	1-9	1-9	1-10	1-11
125.00	1-8	1-11	2-2	2-4	2-6	2-7	2-8	2-9	2-11	3-0
150.00	2-5	2-9	3-1	3-4	3-6	3-8	3-10	4-0	4-2	4-4
175.00	3-4	3-9	4-2	4-7	4-10	5-0	5-3	5-5	5-8	5-10
200.00	4-4	4-11	5-5	5-11	6-4	6-7	6-10	7-1	7-5	7-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.116

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-6	1-6	1-7	1-7	1-7	1-8	1-8	1-8	1-9
125.00	2-3	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-8	2-8
150.00	3-3	3-4	3-5	3-6	3-7	3-8	3-8	3-9	3-10	3-10
175.00	4-6	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3
200.00	5-10	6-0	6-1	6-3	6-4	6-5	6-7	6-8	6-9	6-10
225.00	7-5	7-7	7-8	7-10	8-0	8-2	8-4	8-6	8-7	8-8
250.00	9-1	9-4	9-6	9-9	9-11	10-1	10-3	10-6	10-7	10-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-6	1-7	1-7	1-7	1-8	1-8	1-8	1-8	1-9
125.00	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-7	2-8	2-8
150.00	3-5	3-5	3-6	3-7	3-8	3-8	3-9	3-9	3-10	3-10
175.00	4-7	4-8	4-10	4-11	4-11	5-0	5-1	5-2	5-2	5-3
200.00	6-0	6-2	6-3	6-5	6-6	6-7	6-8	6-8	6-9	6-10
225.00	7-7	7-9	7-11	8-1	8-2	8-4	8-5	8-6	8-7	8-8
250.00	9-5	9-7	9-10	10-0	10-1	10-3	10-4	10-6	10-7	10-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.117

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-6	3-7	3-7	3-7	3-8	3-8	3-8	3-9	3-9	3-9
175.00	4-9	4-10	4-10	4-11	4-11	5-0	5-0	5-1	5-1	5-2
200.00	6-3	6-4	6-4	6-5	6-6	6-6	6-7	6-8	6-8	6-9
225.00	7-11	8-0	8-1	8-1	8-2	8-3	8-4	8-5	8-5	8-6
250.00	9-9	9-10	9-11	10-0	10-1	10-2	10-3	10-4	10-5	10-6
275.00	11-10	11-11	12-0	12-2	12-3	12-4	12-5	12-7	12-8	12-8
300.00	14-1	14-3	14-4	14-6	14-7	14-8	14-10	14-11	15-1	15-1
325.00	16-7	16-8	16-10	17-0	17-1	17-3	17-5	17-7	17-8	17-9
350.00	19-2	19-4	19-6	19-8	19-10	20-0	20-2	20-4	20-6	20-7
375.00	22-1	22-3	22-5	22-8	22-10	23-0	23-2	23-5	23-7	23-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-7	3-7	3-7	3-8	3-8	3-8	3-9	3-9	3-9	3-9
175.00	4-10	4-11	4-11	5-0	5-0	5-0	5-1	5-1	5-1	5-2
200.00	6-4	6-5	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-9
225.00	8-0	8-1	8-2	8-3	8-3	8-4	8-4	8-5	8-5	8-6
250.00	9-11	10-0	10-1	10-2	10-3	10-3	10-4	10-5	10-5	10-6
275.00	12-0	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-8
300.00	14-3	14-5	14-6	14-8	14-9	14-10	14-11	15-0	15-1	15-1
325.00	16-9	16-11	17-0	17-2	17-3	17-5	17-6	17-7	17-8	17-9
350.00	19-5	19-7	19-9	19-11	20-1	20-2	20-3	20-5	20-6	20-7
375.00	22-4	22-6	22-9	22-11	23-0	23-2	23-3	23-5	23-7	23-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.118

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-5	6-5	6-6	6-6	6-7	6-7	6-7	6-8	6-8	6-8
225.00	8-2	8-2	8-2	8-3	8-3	8-4	8-4	8-5	8-5	8-5
250.00	10-1	10-1	10-2	10-2	10-3	10-3	10-4	10-4	10-5	10-5
275.00	12-2	12-3	12-3	12-4	12-5	12-5	12-6	12-7	12-7	12-8
300.00	14-6	14-7	14-7	14-8	14-9	14-10	14-11	14-11	15-0	15-1
325.00	17-0	17-1	17-2	17-3	17-4	17-5	17-6	17-7	17-7	17-8
350.00	19-9	19-10	19-11	20-0	20-1	20-2	20-3	20-4	20-5	20-6
375.00	22-8	22-9	22-10	23-0	23-1	23-2	23-4	23-5	23-6	23-7
400.00	25-10	25-11	26-0	26-2	26-3	26-5	26-6	26-8	26-9	26-10
425.00	29-2	29-3	29-5	29-7	29-8	29-10	30-0	30-1	30-3	30-4
450.00	32-8	32-10	33-0	33-2	33-4	33-6	33-7	33-9	33-11	34-0
475.00	36-5	36-8	36-10	37-0	37-2	37-4	37-6	37-8	37-10	37-11
500.00	40-5	40-7	40-10	41-0	41-2	41-5	41-7	41-9	41-11	42-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-6	6-6	6-6	6-7	6-7	6-7	6-7	6-8	6-8	6-8
225.00	8-2	8-3	8-3	8-4	8-4	8-4	8-5	8-5	8-5	8-5
250.00	10-1	10-2	10-2	10-3	10-3	10-4	10-4	10-5	10-5	10-5
275.00	12-3	12-4	12-4	12-5	12-5	12-6	12-6	12-7	12-7	12-8
300.00	14-7	14-8	14-8	14-9	14-10	14-10	14-11	15-0	15-0	15-1
325.00	17-1	17-2	17-3	17-4	17-5	17-6	17-6	17-7	17-7	17-8
350.00	19-10	19-11	20-1	20-2	20-2	20-3	20-4	20-5	20-5	20-6
375.00	22-10	22-11	23-0	23-2	23-2	23-3	23-4	23-5	23-6	23-7
400.00	26-0	26-1	26-3	26-4	26-5	26-6	26-7	26-8	26-9	26-10
425.00	29-4	29-6	29-7	29-9	29-10	29-11	30-0	30-1	30-3	30-4
450.00	32-11	33-1	33-3	33-5	33-6	33-7	33-8	33-10	33-11	34-0
475.00	36-8	36-10	37-1	37-3	37-4	37-5	37-7	37-8	37-10	37-11
500.00	40-8	40-11	41-1	41-3	41-5	41-6	41-8	41-10	41-11	42-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.119

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-3	10-3	10-3	10-4	10-4	10-4	10-5	10-5	10-5	10-6
275.00	12-4	12-5	12-5	12-6	12-6	12-6	12-7	12-7	12-8	12-8
300.00	14-9	14-9	14-10	14-10	14-11	14-11	15-0	15-0	15-1	15-1
325.00	17-3	17-4	17-5	17-5	17-6	17-6	17-7	17-8	17-8	17-9
350.00	20-1	20-1	20-2	20-3	20-3	20-4	20-5	20-6	20-6	20-7
375.00	23-0	23-1	23-2	23-3	23-4	23-5	23-5	23-6	23-7	23-7
400.00	26-3	26-4	26-5	26-6	26-6	26-7	26-8	26-9	26-10	26-11
425.00	29-8	29-9	29-10	29-11	30-0	30-1	30-2	30-3	30-4	30-5
450.00	33-3	33-4	33-5	33-7	33-8	33-9	33-10	33-11	34-0	34-1
475.00	37-1	37-2	37-4	37-5	37-6	37-7	37-9	37-10	37-11	38-0
500.00	41-1	41-3	41-4	41-6	41-7	41-9	41-10	42-0	42-1	42-2
525.00	45-4	45-6	45-8	45-9	45-11	46-0	46-2	46-4	46-5	46-6
550.00	49-10	50-0	50-2	50-3	50-5	50-7	50-9	50-10	51-0	51-1
575.00	54-6	54-8	54-10	55-0	55-2	55-4	55-6	55-8	55-10	55-11
600.00	59-5	59-7	59-10	60-0	60-2	60-4	60-6	60-8	60-10	60-11
625.00	64-7	64-9	64-11	65-2	65-4	65-6	65-9	65-11	66-1	66-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-3	10-3	10-4	10-4	10-4	10-5	10-5	10-5	10-5	10-6
275.00	12-5	12-5	12-6	12-6	12-7	12-7	12-7	12-7	12-8	12-8
300.00	14-9	14-10	14-10	14-11	14-11	15-0	15-0	15-0	15-1	15-1
325.00	17-4	17-5	17-5	17-6	17-6	17-7	17-7	17-8	17-8	17-9
350.00	20-2	20-2	20-3	20-4	20-4	20-5	20-5	20-6	20-6	20-7
375.00	23-2	23-2	23-3	23-4	23-5	23-5	23-6	23-6	23-7	23-7
400.00	26-4	26-5	26-6	26-7	26-7	26-8	26-9	26-9	26-10	26-11
425.00	29-9	29-10	29-11	30-0	30-1	30-2	30-2	30-3	30-4	30-5
450.00	33-5	33-6	33-7	33-8	33-9	33-10	33-11	33-11	34-0	34-1
475.00	37-3	37-4	37-5	37-7	37-8	37-8	37-9	37-10	37-11	38-0
500.00	41-3	41-5	41-6	41-8	41-9	41-10	41-11	42-0	42-1	42-2
525.00	45-7	45-8	45-10	46-0	46-1	46-2	46-3	46-4	46-5	46-6
550.00	50-1	50-2	50-4	50-6	50-7	50-8	50-10	50-11	51-0	51-1
575.00	54-9	54-11	55-1	55-3	55-4	55-6	55-7	55-8	55-10	55-11
600.00	59-8	59-10	60-1	60-3	60-4	60-6	60-7	60-8	60-10	60-11
625.00	64-10	65-0	65-3	65-5	65-7	65-8	65-10	65-11	66-1	66-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.120

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.876	1.15	955	1.1	1000*
20	0	0	0	0.52	0.56	1167	0.53	1225
30	0	0	0	0.52	0.7	931	0.65	1001
40	0	0	0	0.52	0.85	762	0.79	827
50	0	0	0	0.52	1.01	644	0.93	698
60	0	0	0	0.52	1.16	561	1.08	604
70	0	0	0	0.52	1.3	501	1.21	535
80	0	0	0	0.52	1.43	455	1.35	483
90	0	0	0	0.52	1.51	431	1.47	443
100	0	0	0	0.52	1.58	411	1.58	411
110	0	0	0	0.52	1.65	394	1.65	394
120	0	0	0	0.52	1.72	378	1.72	378
130	0	0	0	0.52	1.79	364	1.79	364
167	0	0	0	0.52	2.02	322	2.02	322
212	0	0	0	0.52	2.28	285	2.28	285

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.876	4.46	984	4.39	1000*
20	0	0	0	0.52	3.73	697	3.65	714
30	0	0	0	0.52	3.93	663	3.84	679
40	0	0	0	0.52	4.11	633	4.02	648
50	0	0	0	0.52	4.29	607	4.19	621
60	0	0	0	0.52	4.47	583	4.36	597
70	0	0	0	0.52	4.64	562	4.53	575
80	0	0	0	0.52	4.8	543	4.69	555
90	0	0	0	0.52	4.95	526	4.85	538
100	0	0	0	0.52	5.05	516	5	521
110	0	0	0	0.52	5.15	506	5.15	506
120	0	0	0	0.52	5.25	497	5.25	497
130	0	0	0	0.52	5.34	488	5.34	488
167	0	0	0	0.52	5.68	459	5.68	459
212	0	0	0	0.52	6.07	430	6.07	430

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.121

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Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.876	9.97	992	9.9	1000*
20	0	0	0	0.52	9.24	635	9.15	641
30	0	0	0	0.52	9.43	623	9.34	629
40	0	0	0	0.52	9.62	611	9.52	617
50	0	0	0	0.52	9.8	599	9.7	606
60	0	0	0	0.52	9.98	589	9.87	595
70	0	0	0	0.52	10.16	579	10.04	585
80	0	0	0	0.52	10.33	569	10.21	575
90	0	0	0	0.52	10.5	560	10.38	566
100	0	0	0	0.52	10.63	553	10.55	557
110	0	0	0	0.52	10.74	548	10.71	549
120	0	0	0	0.52	10.85	542	10.85	542
130	0	0	0	0.52	10.95	537	10.95	537
167	0	0	0	0.52	11.34	519	11.34	519
212	0	0	0	0.52	11.8	499	11.8	499

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.876	17.73	996	17.65	1000*
20	0	0	0	0.52	17	616	16.91	619
30	0	0	0	0.52	17.19	609	17.09	613
40	0	0	0	0.52	17.38	603	17.27	607
50	0	0	0	0.52	17.56	597	17.45	600
60	0	0	0	0.52	17.74	591	17.63	595
70	0	0	0	0.52	17.92	585	17.8	589
80	0	0	0	0.52	18.1	579	17.98	583
90	0	0	0	0.52	18.27	574	18.15	578
100	0	0	0	0.52	18.41	570	18.32	572
110	0	0	0	0.52	18.53	566	18.49	567
120	0	0	0	0.52	18.65	563	18.65	563
130	0	0	0	0.52	18.76	559	18.76	559
167	0	0	0	0.52	19.17	548	19.17	548
212	0	0	0	0.52	19.66	534	19.66	534

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.122

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.876	27.79	997	27.7	1000*
20	0	0	0	0.52	27.06	608	26.97	610
30	0	0	0	0.52	27.24	604	27.15	606
40	0	0	0	0.52	27.43	600	27.33	602
50	0	0	0	0.52	27.61	596	27.5	598
60	0	0	0	0.52	27.79	592	27.68	594
70	0	0	0	0.52	27.97	588	27.86	591
80	0	0	0	0.52	28.15	584	28.03	587
90	0	0	0	0.52	28.33	581	28.21	583
100	0	0	0	0.52	28.48	578	28.38	580
110	0	0	0	0.52	28.6	576	28.55	577
120	0	0	0	0.52	28.72	573	28.72	573
130	0	0	0	0.52	28.84	571	28.84	571
167	0	0	0	0.52	29.26	563	29.26	563
212	0	0	0	0.52	29.77	554	29.77	554

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.123

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11
100.00	0-6	0-8	0-9	0-11	1-1	1-3	1-4	1-6	1-7	1-8
125.00	0-10	1-0	1-3	1-5	1-8	1-11	2-1	2-4	2-6	2-7
150.00	1-2	1-6	1-9	2-1	2-5	2-9	3-0	3-4	3-7	3-9
175.00	1-8	2-0	2-5	2-10	3-4	3-9	4-1	4-6	4-10	5-1
200.00	2-1	2-7	3-2	3-9	4-4	4-10	5-5	5-11	6-4	6-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	0-11
100.00	0-7	0-8	0-10	1-0	1-2	1-4	1-5	1-6	1-7	1-8
125.00	0-10	1-1	1-4	1-7	1-10	2-0	2-3	2-4	2-6	2-7
150.00	1-3	1-7	1-11	2-3	2-7	2-11	3-3	3-5	3-7	3-9
175.00	1-8	2-2	2-7	3-1	3-7	4-0	4-5	4-7	4-10	5-1
200.00	2-3	2-10	3-5	4-0	4-8	5-2	5-9	6-0	6-4	6-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 124 OF 360

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.124

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-3
125.00	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11	2-0
150.00	2-1	2-2	2-3	2-4	2-5	2-7	2-8	2-9	2-10	2-11
175.00	2-10	2-11	3-1	3-3	3-4	3-6	3-7	3-9	3-10	3-11
200.00	3-8	3-10	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-2
225.00	4-7	4-10	5-1	5-4	5-6	5-9	5-11	6-2	6-4	6-6
250.00	5-8	6-0	6-3	6-7	6-10	7-1	7-4	7-7	7-10	8-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-3
125.00	1-6	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-0
150.00	2-1	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
175.00	2-10	3-0	3-2	3-3	3-5	3-7	3-8	3-10	3-10	3-11
200.00	3-9	3-11	4-1	4-4	4-6	4-8	4-10	4-11	5-1	5-2
225.00	4-9	5-0	5-2	5-5	5-8	5-10	6-1	6-3	6-5	6-6
250.00	5-10	6-2	6-5	6-9	7-0	7-3	7-6	7-9	7-11	8-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.125

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-8	2-8
175.00	3-1	3-2	3-3	3-4	3-4	3-5	3-6	3-6	3-7	3-8
200.00	4-1	4-2	4-3	4-4	4-5	4-6	4-6	4-7	4-8	4-9
225.00	5-2	5-3	5-4	5-5	5-7	5-8	5-9	5-10	5-11	6-0
250.00	6-4	6-6	6-7	6-9	6-10	7-0	7-1	7-2	7-4	7-5
275.00	7-8	7-10	8-0	8-2	8-4	8-5	8-7	8-9	8-10	9-0
300.00	9-2	9-4	9-6	9-8	9-10	10-1	10-3	10-5	10-7	10-9
325.00	10-9	11-0	11-2	11-5	11-7	11-9	12-0	12-2	12-5	12-7
350.00	12-6	12-9	13-0	13-2	13-5	13-8	13-11	14-2	14-4	14-7
375.00	14-4	14-7	14-11	15-2	15-5	15-8	16-0	16-3	16-6	16-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-4	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-8	2-8
175.00	3-2	3-2	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8
200.00	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-9
225.00	5-2	5-4	5-5	5-6	5-7	5-9	5-10	5-11	6-0	6-0
250.00	6-5	6-7	6-8	6-10	6-11	7-1	7-2	7-3	7-5	7-5
275.00	7-9	7-11	8-1	8-3	8-5	8-6	8-8	8-10	8-11	9-0
300.00	9-3	9-5	9-7	9-10	10-0	10-2	10-4	10-6	10-8	10-9
325.00	10-10	11-1	11-4	11-6	11-9	11-11	12-2	12-4	12-6	12-7
350.00	12-7	12-10	13-1	13-4	13-7	13-10	14-1	14-4	14-6	14-7
375.00	14-5	14-9	15-1	15-4	15-7	15-11	16-2	16-5	16-7	16-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.126

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-3	4-3	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-7
225.00	5-4	5-5	5-5	5-6	5-7	5-7	5-8	5-9	5-9	5-10
250.00	6-7	6-8	6-9	6-10	6-11	6-11	7-0	7-1	7-2	7-3
275.00	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9
300.00	9-6	9-7	9-8	9-10	9-11	10-0	10-1	10-2	10-4	10-5
325.00	11-2	11-3	11-5	11-6	11-8	11-9	11-10	12-0	12-1	12-2
350.00	12-11	13-1	13-3	13-4	13-6	13-7	13-9	13-11	14-0	14-2
375.00	14-10	15-0	15-2	15-4	15-6	15-8	15-10	15-11	16-1	16-3
400.00	16-11	17-1	17-3	17-5	17-8	17-10	18-0	18-2	18-4	18-6
425.00	19-1	19-4	19-6	19-8	19-11	20-1	20-4	20-6	20-8	20-11
450.00	21-5	21-8	21-11	22-1	22-4	22-7	22-9	23-0	23-2	23-5
475.00	23-10	24-2	24-5	24-8	24-11	25-2	25-5	25-7	25-10	26-1
500.00	26-6	26-9	27-0	27-4	27-7	27-10	28-2	28-5	28-8	28-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-3	4-3	4-4	4-5	4-5	4-6	4-6	4-7	4-7	4-7
225.00	5-4	5-5	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-10
250.00	6-8	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-2	7-3
275.00	8-0	8-1	8-2	8-3	8-4	8-5	8-7	8-7	8-8	8-9
300.00	9-7	9-8	9-9	9-10	10-0	10-1	10-2	10-3	10-4	10-5
325.00	11-3	11-4	11-6	11-7	11-8	11-10	11-11	12-1	12-2	12-3
350.00	13-0	13-2	13-4	13-5	13-7	13-9	13-10	14-0	14-1	14-2
375.00	14-11	15-1	15-3	15-5	15-7	15-9	15-11	16-1	16-2	16-3
400.00	17-0	17-2	17-5	17-7	17-9	17-11	18-1	18-3	18-5	18-6
425.00	19-2	19-5	19-7	19-10	20-0	20-3	20-5	20-8	20-10	20-11
450.00	21-6	21-9	22-0	22-3	22-6	22-8	22-11	23-2	23-4	23-6
475.00	24-0	24-3	24-6	24-9	25-1	25-4	25-7	25-10	26-0	26-2
500.00	26-7	26-11	27-2	27-6	27-9	28-0	28-4	28-7	28-10	29-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.127

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-9	6-9	6-10	6-10	6-11	6-11	7-0	7-0	7-1	7-1
275.00	8-2	8-2	8-3	8-4	8-4	8-5	8-5	8-6	8-7	8-7
300.00	9-8	9-9	9-10	9-11	9-11	10-0	10-1	10-2	10-2	10-3
325.00	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-0
350.00	13-2	13-3	13-4	13-5	13-6	13-7	13-8	13-10	13-11	14-0
375.00	15-2	15-3	15-4	15-5	15-7	15-8	15-9	15-10	15-11	16-0
400.00	17-3	17-4	17-6	17-7	17-8	17-10	17-11	18-0	18-2	18-3
425.00	19-6	19-7	19-9	19-10	20-0	20-1	20-3	20-4	20-6	20-7
450.00	21-10	22-0	22-1	22-3	22-5	22-7	22-8	22-10	23-0	23-1
475.00	24-4	24-6	24-8	24-10	25-0	25-2	25-3	25-5	25-7	25-9
500.00	27-0	27-2	27-4	27-6	27-8	27-10	28-0	28-2	28-5	28-7
525.00	29-9	29-11	30-2	30-4	30-6	30-9	30-11	31-1	31-4	31-6
550.00	32-8	32-10	33-1	33-4	33-6	33-9	33-11	34-2	34-4	34-7
575.00	35-8	35-11	36-2	36-5	36-8	36-11	37-1	37-4	37-7	37-10
600.00	38-11	39-2	39-5	39-8	39-11	40-2	40-5	40-8	40-11	41-2
625.00	42-3	42-6	42-9	43-1	43-4	43-8	43-11	44-2	44-5	44-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-9	6-9	6-10	6-11	6-11	7-0	7-0	7-1	7-1	7-2
275.00	8-2	8-3	8-3	8-4	8-5	8-5	8-6	8-7	8-7	8-8
300.00	9-9	9-9	9-10	9-11	10-0	10-1	10-1	10-2	10-3	10-3
325.00	11-5	11-6	11-7	11-8	11-9	11-9	11-10	11-11	12-0	12-1
350.00	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-11	14-0
375.00	15-2	15-4	15-5	15-6	15-7	15-8	15-10	15-11	16-0	16-1
400.00	17-4	17-5	17-6	17-8	17-9	17-11	18-0	18-1	18-2	18-3
425.00	19-6	19-8	19-10	19-11	20-1	20-2	20-4	20-5	20-7	20-8
450.00	21-11	22-1	22-2	22-4	22-6	22-8	22-9	22-11	23-1	23-2
475.00	24-5	24-7	24-9	24-11	25-1	25-3	25-5	25-7	25-8	25-10
500.00	27-1	27-3	27-5	27-7	27-10	28-0	28-2	28-4	28-6	28-7
525.00	29-10	30-1	30-3	30-5	30-8	30-10	31-1	31-3	31-5	31-7
550.00	32-9	33-0	33-3	33-5	33-8	33-11	34-1	34-4	34-6	34-8
575.00	35-10	36-1	36-4	36-7	36-10	37-1	37-3	37-6	37-9	37-10
600.00	39-0	39-4	39-7	39-10	40-1	40-4	40-7	40-11	41-1	41-3
625.00	42-4	42-8	42-11	43-3	43-6	43-10	44-1	44-5	44-7	44-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.128

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	0.82	1343	0.73	1500*
20	0	0	0	0.52	0.32	2021	0.31	2129
30	0	0	0	0.52	0.39	1653	0.36	1825
40	0	0	0	0.52	0.49	1323	0.42	1531
50	0	0	0	0.52	0.62	1050	0.52	1261
60	0	0	0	0.52	0.77	846	0.63	1030
70	0	0	0	0.52	0.93	702	0.77	847
80	0	0	0	0.52	1.08	603	0.91	712
90	0	0	0	0.52	1.17	555	1.06	614
100	0	0	0	0.52	1.25	522	1.2	543
110	0	0	0	0.52	1.33	491	1.33	491
120	0	0	0	0.52	1.4	465	1.4	465
130	0	0	0	0.52	1.47	442	1.47	442
167	0	0	0	0.52	1.73	376	1.73	376
212	0	0	0	0.52	2.02	322	2.02	322

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	3.07	1426	2.92	1500*
20	0	0	0	0.52	2.02	1288	1.85	1403
30	0	0	0	0.52	2.27	1146	2.08	1252
40	0	0	0	0.52	2.52	1034	2.31	1128
50	0	0	0	0.52	2.76	944	2.53	1026
60	0	0	0	0.52	2.99	871	2.76	943
70	0	0	0	0.52	3.21	810	2.98	873
80	0	0	0	0.52	3.43	760	3.19	815
90	0	0	0	0.52	3.63	717	3.4	766
100	0	0	0	0.52	3.79	687	3.6	724
110	0	0	0	0.52	3.9	667	3.79	687
120	0	0	0	0.52	4.01	649	3.97	655
130	0	0	0	0.52	4.13	631	4.13	631
167	0	0	0	0.52	4.53	576	4.53	576
212	0	0	0	0.52	4.98	523	4.98	523

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	6.76	1460	6.58	1500*
20	0	0	0	0.52	5.59	1048	5.36	1093
30	0	0	0	0.52	5.87	998	5.63	1041
40	0	0	0	0.52	6.14	954	5.89	994
50	0	0	0	0.52	6.4	915	6.15	953
60	0	0	0	0.52	6.66	880	6.4	916
70	0	0	0	0.52	6.91	849	6.65	882
80	0	0	0	0.52	7.15	820	6.88	852
90	0	0	0	0.52	7.38	794	7.12	824
100	0	0	0	0.52	7.61	770	7.34	798
110	0	0	0	0.52	7.77	754	7.57	775
120	0	0	0	0.52	7.91	742	7.78	754
130	0	0	0	0.52	8.05	729	8	734
167	0	0	0	0.52	8.53	688	8.53	688
212	0	0	0	0.52	9.1	645	9.1	645

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	11.91	1476	11.72	1500*
20	0	0	0	0.52	10.71	974	10.47	996
30	0	0	0	0.52	10.99	949	10.74	971
40	0	0	0	0.52	11.27	926	11.01	948
50	0	0	0	0.52	11.54	904	11.27	926
60	0	0	0	0.52	11.8	884	11.53	905
70	0	0	0	0.52	12.06	865	11.78	886
80	0	0	0	0.52	12.31	848	12.03	867
90	0	0	0	0.52	12.56	831	12.28	850
100	0	0	0	0.52	12.81	815	12.52	834
110	0	0	0	0.52	13.03	802	12.76	818
120	0	0	0	0.52	13.18	792	13	804
130	0	0	0	0.52	13.33	784	13.23	790
167	0	0	0	0.52	13.88	753	13.88	753
212	0	0	0	0.52	14.52	720	14.52	720

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.130

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.876	18.54	1484	18.34	1500*
20	0	0	0	0.52	17.34	942	17.09	956
30	0	0	0	0.52	17.61	927	17.36	941
40	0	0	0	0.52	17.89	913	17.63	927
50	0	0	0	0.52	18.16	899	17.89	913
60	0	0	0	0.52	18.43	886	18.15	900
70	0	0	0	0.52	18.7	874	18.41	887
80	0	0	0	0.52	18.96	862	18.67	875
90	0	0	0	0.52	19.21	851	18.92	864
100	0	0	0	0.52	19.47	840	19.17	853
110	0	0	0	0.52	19.72	829	19.42	842
120	0	0	0	0.52	19.89	822	19.67	831
130	0	0	0	0.52	20.05	816	19.91	821
167	0	0	0	0.52	20.63	793	20.63	793
212	0	0	0	0.52	21.32	768	21.32	768

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9
100.00	0-4	0-4	0-5	0-6	0-8	0-9	0-11	1-1	1-2	1-4
125.00	0-6	0-7	0-8	0-10	1-0	1-2	1-5	1-8	1-10	2-1
150.00	0-8	0-10	0-11	1-2	1-5	1-9	2-1	2-5	2-8	3-0
175.00	0-11	1-1	1-4	1-7	1-11	2-4	2-10	3-3	3-8	4-1
200.00	1-3	1-5	1-8	2-1	2-6	3-1	3-8	4-3	4-10	5-4

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9
100.00	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-3	1-4
125.00	0-6	0-7	0-9	1-0	1-2	1-5	1-8	1-10	1-11	2-1
150.00	0-9	0-11	1-1	1-5	1-9	2-1	2-5	2-8	2-10	3-0
175.00	1-0	1-2	1-6	1-11	2-4	2-10	3-4	3-7	3-10	4-1
200.00	1-3	1-7	2-0	2-6	3-1	3-8	4-4	4-8	5-0	5-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.132

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11
125.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
150.00	1-1	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-0	2-2
175.00	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11
200.00	1-10	2-1	2-4	2-6	2-9	3-0	3-2	3-5	3-7	3-9
225.00	2-4	2-8	2-11	3-2	3-6	3-9	4-0	4-4	4-7	4-10
250.00	2-11	3-3	3-7	4-0	4-4	4-8	5-0	5-4	5-7	5-11

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0
125.00	0-9	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-6
150.00	1-2	1-3	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-2
175.00	1-7	1-9	1-11	2-1	2-3	2-6	2-7	2-9	2-11	3-0
200.00	2-0	2-3	2-6	2-9	3-0	3-3	3-5	3-8	3-9	3-11
225.00	2-7	2-10	3-2	3-6	3-9	4-1	4-4	4-7	4-10	4-11
250.00	3-2	3-7	3-11	4-4	4-8	5-0	5-4	5-8	5-11	6-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.133

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-9	1-10	1-11
175.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
200.00	2-5	2-6	2-7	2-9	2-10	2-11	3-1	3-2	3-3	3-4
225.00	3-0	3-2	3-4	3-6	3-7	3-9	3-10	4-0	4-2	4-3
250.00	3-9	3-11	4-1	4-3	4-5	4-7	4-9	4-11	5-1	5-3
275.00	4-6	4-9	4-11	5-2	5-5	5-7	5-9	6-0	6-2	6-4
300.00	5-4	5-8	5-11	6-2	6-5	6-8	6-11	7-1	7-4	7-7
325.00	6-3	6-7	6-11	7-3	7-6	7-10	8-1	8-4	8-7	8-11
350.00	7-4	7-8	8-0	8-4	8-9	9-1	9-4	9-8	10-0	10-4
375.00	8-4	8-10	9-3	9-7	10-0	10-5	10-9	11-1	11-6	11-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-6	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11
175.00	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
200.00	2-6	2-7	2-9	2-10	3-0	3-1	3-2	3-3	3-5	3-5
225.00	3-2	3-4	3-5	3-7	3-9	3-11	4-0	4-2	4-3	4-4
250.00	3-11	4-1	4-3	4-5	4-7	4-10	5-0	5-2	5-3	5-5
275.00	4-8	4-11	5-2	5-5	5-7	5-10	6-0	6-2	6-5	6-6
300.00	5-7	5-10	6-2	6-5	6-8	6-11	7-2	7-5	7-7	7-9
325.00	6-7	6-11	7-3	7-6	7-10	8-1	8-5	8-8	8-11	9-2
350.00	7-7	8-0	8-4	8-9	9-1	9-5	9-9	10-1	10-4	10-7
375.00	8-9	9-2	9-7	10-0	10-5	10-10	11-2	11-7	11-11	12-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-2
225.00	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-0
250.00	4-1	4-2	4-4	4-5	4-6	4-7	4-8	4-10	4-11	5-0
275.00	4-11	5-1	5-2	5-4	5-5	5-7	5-8	5-10	5-11	6-0
300.00	5-11	6-0	6-2	6-4	6-6	6-8	6-9	6-11	7-0	7-2
325.00	6-11	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5
350.00	8-0	8-3	8-5	8-8	8-10	9-0	9-3	9-5	9-7	9-9
375.00	9-2	9-5	9-8	9-11	10-2	10-4	10-7	10-10	11-0	11-3
400.00	10-6	10-9	11-0	11-3	11-6	11-9	12-0	12-3	12-6	12-9
425.00	11-10	12-2	12-5	12-9	13-0	13-4	13-7	13-10	14-2	14-5
450.00	13-3	13-7	13-11	14-3	14-7	14-11	15-3	15-7	15-10	16-2
475.00	14-9	15-2	15-6	15-11	16-3	16-8	17-0	17-4	17-8	18-0
500.00	16-4	16-9	17-3	17-7	18-0	18-5	18-10	19-2	19-7	19-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-2	3-3
225.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-1
250.00	4-2	4-3	4-5	4-6	4-7	4-8	4-10	4-11	5-0	5-1
275.00	5-1	5-2	5-4	5-5	5-7	5-8	5-10	5-11	6-1	6-2
300.00	6-0	6-2	6-4	6-6	6-8	6-9	6-11	7-1	7-2	7-4
325.00	7-1	7-3	7-5	7-7	7-9	8-0	8-2	8-3	8-5	8-7
350.00	8-2	8-5	8-7	8-10	9-0	9-3	9-5	9-7	9-10	10-0
375.00	9-5	9-8	9-11	10-2	10-4	10-7	10-10	11-0	11-3	11-5
400.00	10-9	11-0	11-3	11-6	11-10	12-1	12-4	12-7	12-10	13-0
425.00	12-1	12-5	12-9	13-0	13-4	13-7	13-11	14-2	14-6	14-9
450.00	13-7	13-11	14-3	14-7	14-11	15-3	15-7	15-11	16-3	16-6
475.00	15-1	15-6	15-11	16-3	16-8	17-0	17-4	17-9	18-1	18-5
500.00	16-9	17-2	17-7	18-0	18-5	18-10	19-3	19-8	20-0	20-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.135

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-3	4-4	4-5	4-6	4-6	4-7	4-8	4-9	4-9	4-10
275.00	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-10
300.00	6-2	6-3	6-4	6-5	6-6	6-7	6-9	6-10	6-11	7-0
325.00	7-3	7-4	7-5	7-7	7-8	7-9	7-11	8-0	8-1	8-2
350.00	8-4	8-6	8-8	8-9	8-11	9-0	9-2	9-3	9-5	9-6
375.00	9-7	9-9	9-11	10-1	10-2	10-4	10-6	10-8	10-9	10-11
400.00	10-11	11-1	11-3	11-5	11-7	11-9	11-11	12-1	12-3	12-5
425.00	12-4	12-6	12-9	12-11	13-1	13-4	13-6	13-8	13-10	14-0
450.00	13-10	14-1	14-3	14-6	14-8	14-11	15-1	15-4	15-6	15-9
475.00	15-5	15-8	15-11	16-2	16-5	16-7	16-10	17-1	17-4	17-6
500.00	17-1	17-4	17-8	17-11	18-2	18-5	18-8	18-11	19-2	19-5
525.00	18-10	19-2	19-5	19-9	20-0	20-4	20-7	20-10	21-2	21-5
550.00	20-8	21-0	21-4	21-8	22-0	22-3	22-7	22-11	23-2	23-6
575.00	22-7	23-0	23-4	23-8	24-0	24-4	24-8	25-0	25-4	25-8
600.00	24-7	25-0	25-5	25-9	26-2	26-6	26-11	27-3	27-8	28-0
625.00	26-9	27-2	27-7	28-0	28-5	28-10	29-2	29-7	30-0	30-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-4	4-5	4-6	4-6	4-7	4-8	4-9	4-10	4-10	4-11
275.00	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11	5-11
300.00	6-3	6-4	6-5	6-6	6-8	6-9	6-10	6-11	7-0	7-1
325.00	7-4	7-5	7-7	7-8	7-9	7-11	8-0	8-1	8-3	8-4
350.00	8-6	8-7	8-9	8-11	9-0	9-2	9-3	9-5	9-6	9-8
375.00	9-9	9-11	10-1	10-2	10-4	10-6	10-8	10-10	10-11	11-1
400.00	11-1	11-3	11-5	11-7	11-9	11-11	12-1	12-3	12-5	12-7
425.00	12-6	12-9	12-11	13-1	13-4	13-6	13-8	13-11	14-1	14-3
450.00	14-0	14-3	14-6	14-8	14-11	15-2	15-4	15-7	15-9	16-0
475.00	15-8	15-11	16-2	16-5	16-8	16-10	17-1	17-4	17-7	17-10
500.00	17-4	17-7	17-11	18-2	18-5	18-8	18-11	19-3	19-6	19-9
525.00	19-1	19-5	19-9	20-0	20-4	20-7	20-11	21-2	21-6	21-9
550.00	21-0	21-4	21-8	22-0	22-4	22-8	22-11	23-3	23-7	23-10
575.00	22-11	23-4	23-8	24-0	24-5	24-9	25-1	25-5	25-9	26-1
600.00	25-0	25-5	25-9	26-2	26-7	26-11	27-4	27-8	28-1	28-5
625.00	27-1	27-7	28-0	28-5	28-10	29-3	29-8	30-1	30-5	30-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.136

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	0.65	1683	0.55	2000*
20	0	0	0	0.52	0.25	2572	0.23	2774
30	0	0	0	0.52	0.3	2177	0.26	2464
40	0	0	0	0.52	0.36	1799	0.3	2154
50	0	0	0	0.52	0.45	1451	0.35	1847
60	0	0	0	0.52	0.56	1152	0.42	1550
70	0	0	0	0.52	0.71	920	0.51	1277
80	0	0	0	0.52	0.86	754	0.62	1041
90	0	0	0	0.52	0.95	681	0.76	855
100	0	0	0	0.52	1.03	633	0.91	717
110	0	0	0	0.52	1.1	590	1.05	618
120	0	0	0	0.52	1.18	553	1.18	553
130	0	0	0	0.52	1.25	519	1.25	519
167	0	0	0	0.52	1.53	426	1.53	426
212	0	0	0	0.52	1.83	355	1.83	355

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	2.42	1814	2.19	2000*
20	0	0	0	0.52	1.3	1996	1.16	2251
30	0	0	0	0.52	1.51	1725	1.3	1998
40	0	0	0	0.52	1.74	1498	1.47	1765
50	0	0	0	0.52	1.98	1313	1.67	1558
60	0	0	0	0.52	2.23	1166	1.88	1381
70	0	0	0	0.52	2.48	1050	2.11	1234
80	0	0	0	0.52	2.72	957	2.34	1112
90	0	0	0	0.52	2.95	881	2.57	1013
100	0	0	0	0.52	3.14	828	2.79	931
110	0	0	0	0.52	3.26	798	3.01	863
120	0	0	0	0.52	3.38	770	3.23	807
130	0	0	0	0.52	3.5	744	3.43	758
167	0	0	0	0.52	3.92	664	3.92	664
212	0	0	0	0.52	4.41	590	4.41	590

* Design Condition

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SHEET 137 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.137

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Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.876	5.23	1886	4.93	2000*
20	0	0	0	0.52	3.71	1577	3.35	1746
30	0	0	0	0.52	4.04	1449	3.65	1606
40	0	0	0	0.52	4.36	1342	3.94	1485
50	0	0	0	0.52	4.68	1252	4.24	1380
60	0	0	0	0.52	4.98	1175	4.54	1290
70	0	0	0	0.52	5.28	1109	4.83	1213
80	0	0	0	0.52	5.57	1051	5.11	1145
90	0	0	0	0.52	5.85	1001	5.39	1086
100	0	0	0	0.52	6.12	957	5.67	1034
110	0	0	0	0.52	6.36	922	5.93	988
120	0	0	0	0.52	6.51	901	6.19	947
130	0	0	0	0.52	6.65	881	6.44	910
167	0	0	0	0.52	7.19	815	7.19	816
212	0	0	0	0.52	7.82	750	7.82	750

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.876	9.11	1926	8.77	2000*
20	0	0	0	0.52	7.45	1397	7	1487
30	0	0	0	0.52	7.81	1333	7.35	1418
40	0	0	0	0.52	8.16	1276	7.68	1355
50	0	0	0	0.52	8.5	1225	8.02	1299
60	0	0	0	0.52	8.84	1179	8.34	1249
70	0	0	0	0.52	9.16	1138	8.66	1203
80	0	0	0	0.52	9.47	1100	8.98	1161
90	0	0	0	0.52	9.78	1066	9.28	1123
100	0	0	0	0.52	10.08	1034	9.58	1088
110	0	0	0	0.52	10.38	1005	9.87	1056
120	0	0	0	0.52	10.61	983	10.16	1026
130	0	0	0	0.52	10.78	968	10.44	998
167	0	0	0	0.52	11.4	915	11.39	916
212	0	0	0	0.52	12.13	860	12.12	861

* Design Condition

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SHEET 138 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.138

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.876	14.09	1949	13.73	2000*
20	0	0	0	0.52	12.37	1317	11.89	1370
30	0	0	0	0.52	12.74	1279	12.24	1330
40	0	0	0	0.52	13.09	1244	12.59	1294
50	0	0	0	0.52	13.45	1212	12.94	1259
60	0	0	0	0.52	13.79	1182	13.28	1227
70	0	0	0	0.52	14.13	1154	13.61	1198
80	0	0	0	0.52	14.46	1128	13.94	1170
90	0	0	0	0.52	14.79	1103	14.26	1143
100	0	0	0	0.52	15.1	1080	14.57	1119
110	0	0	0	0.52	15.42	1058	14.89	1096
120	0	0	0	0.52	15.73	1037	15.19	1074
130	0	0	0	0.52	15.92	1025	15.49	1053
167	0	0	0	0.52	16.6	983	16.57	985
212	0	0	0	0.52	17.41	938	17.4	938

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7
100.00	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-1
125.00	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-2	1-5	1-8
150.00	0-6	0-7	0-8	0-10	0-11	1-2	1-5	1-9	2-0	2-4
175.00	0-9	0-10	0-11	1-1	1-3	1-7	1-11	2-4	2-9	3-3
200.00	0-11	1-1	1-2	1-5	1-8	2-0	2-6	3-1	3-8	4-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-4	0-5	0-6	0-6	0-7	0-7
100.00	0-3	0-4	0-4	0-5	0-7	0-8	0-10	0-11	1-0	1-1
125.00	0-5	0-6	0-7	0-8	0-11	1-1	1-4	1-6	1-7	1-9
150.00	0-7	0-8	0-10	1-0	1-3	1-7	1-11	2-2	2-4	2-6
175.00	0-9	0-11	1-1	1-4	1-9	2-2	2-8	2-11	3-2	3-5
200.00	1-0	1-2	1-5	1-10	2-3	2-10	3-5	3-10	4-1	4-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.140

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-8	0-9
125.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
150.00	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-5	1-7	1-8
175.00	0-11	1-0	1-2	1-3	1-5	1-7	1-9	2-0	2-2	2-4
200.00	1-2	1-4	1-6	1-8	1-11	2-1	2-4	2-7	2-10	3-0
225.00	1-6	1-8	1-10	2-1	2-5	2-8	3-0	3-3	3-6	3-10
250.00	1-10	2-0	2-4	2-7	2-11	3-4	3-8	4-0	4-4	4-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10
125.00	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-3
150.00	0-9	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-9	1-10
175.00	1-0	1-2	1-4	1-6	1-8	1-11	2-1	2-3	2-5	2-6
200.00	1-4	1-6	1-9	2-0	2-3	2-6	2-9	2-11	3-2	3-3
225.00	1-8	1-11	2-2	2-6	2-10	3-2	3-5	3-9	4-0	4-2
250.00	2-0	2-4	2-9	3-1	3-6	3-10	4-3	4-7	4-11	5-1

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STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6
175.00	1-2	1-3	1-4	1-5	1-7	1-8	1-9	1-10	1-11	2-0
200.00	1-6	1-7	1-9	1-11	2-0	2-2	2-3	2-5	2-6	2-8
225.00	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-2	3-4
250.00	2-4	2-6	2-9	2-11	3-2	3-4	3-7	3-9	3-11	4-1
275.00	2-10	3-1	3-4	3-7	3-10	4-1	4-4	4-6	4-9	5-0
300.00	3-4	3-8	3-11	4-3	4-6	4-10	5-1	5-5	5-8	5-11
325.00	3-11	4-3	4-8	5-0	5-4	5-8	6-0	6-4	6-8	7-0
350.00	4-7	5-0	5-4	5-9	6-2	6-7	7-0	7-4	7-9	8-1
375.00	5-3	5-8	6-2	6-8	7-1	7-7	8-0	8-5	8-10	9-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-6	1-7
175.00	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2
200.00	1-8	1-10	1-11	2-1	2-3	2-4	2-6	2-7	2-9	2-10
225.00	2-1	2-3	2-5	2-8	2-10	3-0	3-2	3-3	3-5	3-7
250.00	2-7	2-10	3-0	3-3	3-6	3-8	3-10	4-1	4-3	4-5
275.00	3-1	3-5	3-8	3-11	4-2	4-5	4-8	4-11	5-2	5-4
300.00	3-9	4-0	4-4	4-8	5-0	5-3	5-7	5-10	6-1	6-4
325.00	4-4	4-9	5-1	5-6	5-10	6-2	6-6	6-10	7-2	7-6
350.00	5-1	5-6	5-11	6-4	6-9	7-2	7-7	8-0	8-4	8-8
375.00	5-10	6-4	6-10	7-4	7-9	8-3	8-9	9-2	9-7	9-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.142

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6
225.00	2-3	2-4	2-5	2-6	2-8	2-9	2-10	2-11	3-0	3-1
250.00	2-9	2-10	3-0	3-2	3-3	3-5	3-6	3-7	3-9	3-10
275.00	3-4	3-6	3-8	3-9	3-11	4-1	4-3	4-5	4-6	4-8
300.00	3-11	4-2	4-4	4-6	4-8	4-10	5-1	5-3	5-5	5-7
325.00	4-7	4-10	5-1	5-3	5-6	5-9	5-11	6-2	6-4	6-6
350.00	5-4	5-7	5-11	6-2	6-5	6-8	6-10	7-1	7-4	7-7
375.00	6-2	6-5	6-9	7-1	7-4	7-7	7-11	8-2	8-5	8-8
400.00	7-0	7-4	7-8	8-0	8-4	8-8	9-0	9-3	9-7	9-10
425.00	7-11	8-4	8-8	9-1	9-5	9-9	10-2	10-6	10-10	11-2
450.00	8-10	9-4	9-9	10-2	10-7	11-0	11-4	11-9	12-2	12-6
475.00	9-10	10-4	10-10	11-4	11-9	12-3	12-8	13-1	13-6	13-11
500.00	10-11	11-6	12-0	12-6	13-0	13-6	14-0	14-6	15-0	15-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
225.00	2-4	2-6	2-7	2-8	2-10	2-11	3-0	3-1	3-2	3-3
250.00	2-11	3-1	3-2	3-4	3-5	3-7	3-8	3-10	3-11	4-1
275.00	3-6	3-8	3-10	4-0	4-2	4-4	4-6	4-7	4-9	4-11
300.00	4-2	4-5	4-7	4-9	5-0	5-2	5-4	5-6	5-8	5-10
325.00	4-11	5-2	5-5	5-7	5-10	6-1	6-3	6-5	6-8	6-10
350.00	5-8	6-0	6-3	6-6	6-9	7-0	7-3	7-6	7-9	7-11
375.00	6-7	6-10	7-2	7-6	7-9	8-1	8-4	8-7	8-10	9-1
400.00	7-5	7-10	8-2	8-6	8-10	9-2	9-6	9-9	10-1	10-5
425.00	8-5	8-10	9-3	9-7	10-0	10-4	10-8	11-1	11-5	11-9
450.00	9-5	9-11	10-4	10-9	11-2	11-7	12-0	12-5	12-9	13-2
475.00	10-6	11-0	11-6	12-0	12-6	12-11	13-4	13-10	14-3	14-8
500.00	11-8	12-3	12-9	13-3	13-10	14-4	14-10	15-4	15-9	16-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.143

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
275.00	3-7	3-8	3-10	3-11	4-0	4-1	4-3	4-4	4-5	4-6
300.00	4-3	4-5	4-6	4-8	4-9	4-11	5-0	5-2	5-3	5-4
325.00	5-0	5-2	5-4	5-6	5-7	5-9	5-11	6-0	6-2	6-3
350.00	5-10	6-0	6-2	6-4	6-6	6-8	6-10	7-0	7-2	7-3
375.00	6-8	6-11	7-1	7-3	7-6	7-8	7-10	8-0	8-2	8-4
400.00	7-7	7-10	8-1	8-3	8-6	8-8	8-11	9-1	9-4	9-6
425.00	8-7	8-10	9-1	9-4	9-7	9-10	10-1	10-4	10-6	10-9
450.00	9-8	9-11	10-2	10-6	10-9	11-0	11-3	11-7	11-10	12-1
475.00	10-9	11-1	11-4	11-8	12-0	12-3	12-7	12-10	13-2	13-5
500.00	11-11	12-3	12-7	12-11	13-3	13-7	13-11	14-3	14-7	14-11
525.00	13-1	13-6	13-11	14-3	14-8	15-0	15-4	15-9	16-1	16-5
550.00	14-5	14-10	15-3	15-8	16-1	16-6	16-10	17-3	17-8	18-0
575.00	15-9	16-2	16-8	17-1	17-7	18-0	18-5	18-10	19-3	19-8
600.00	17-1	17-8	18-2	18-8	19-1	19-7	20-1	20-6	21-0	21-5
625.00	18-7	19-2	19-8	20-3	20-9	21-3	21-9	22-3	22-9	23-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10
275.00	3-9	3-10	4-0	4-1	4-2	4-3	4-4	4-6	4-7	4-8
300.00	4-5	4-7	4-9	4-10	5-0	5-1	5-2	5-4	5-5	5-7
325.00	5-3	5-5	5-6	5-8	5-10	6-0	6-1	6-3	6-5	6-6
350.00	6-1	6-3	6-5	6-7	6-9	6-11	7-1	7-3	7-5	7-7
375.00	6-11	7-2	7-4	7-7	7-9	7-11	8-2	8-4	8-6	8-8
400.00	7-11	8-2	8-5	8-7	8-10	9-0	9-3	9-6	9-8	9-10
425.00	8-11	9-2	9-5	9-9	10-0	10-2	10-5	10-8	10-11	11-2
450.00	10-0	10-4	10-7	10-11	11-2	11-5	11-9	12-0	12-3	12-6
475.00	11-2	11-6	11-10	12-2	12-5	12-9	13-1	13-4	13-8	13-11
500.00	12-4	12-9	13-1	13-5	13-9	14-2	14-6	14-9	15-1	15-5
525.00	13-8	14-1	14-5	14-10	15-2	15-7	15-11	16-4	16-8	17-0
550.00	15-0	15-5	15-10	16-3	16-8	17-1	17-6	17-11	18-3	18-8
575.00	16-4	16-10	17-4	17-9	18-3	18-8	19-2	19-7	20-0	20-5
600.00	17-10	18-4	18-10	19-4	19-10	20-4	20-10	21-4	21-9	22-3
625.00	19-4	19-11	20-6	21-0	21-7	22-1	22-7	23-1	23-7	24-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.144

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.876	0.55	1999	0.44	2500*
20	0	0	0	0.52	0.22	2999	0.2	3326
30	0	0	0	0.52	0.25	2594	0.22	3021
40	0	0	0	0.52	0.3	2198	0.24	2712
50	0	0	0	0.52	0.36	1819	0.27	2399
60	0	0	0	0.52	0.44	1469	0.31	2087
70	0	0	0	0.52	0.56	1167	0.37	1780
80	0	0	0	0.52	0.7	931	0.44	1485
90	0	0	0	0.52	0.79	824	0.53	1218
100	0	0	0	0.52	0.85	762	0.66	992
110	0	0	0	0.52	0.92	705	0.8	818
120	0	0	0	0.52	0.99	654	0.94	690
130	0	0	0	0.52	1.07	609	1.06	614
167	0	0	0	0.52	1.35	483	1.34	486
212	0	0	0	0.52	1.67	390	1.66	391

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.876	2.03	2157	1.75	2500*
20	0	0	0	0.52	1	2604	0.87	2980
30	0	0	0	0.52	1.15	2266	0.96	2697
40	0	0	0	0.52	1.33	1961	1.07	2420
50	0	0	0	0.52	1.53	1695	1.21	2155
60	0	0	0	0.52	1.77	1473	1.36	1906
70	0	0	0	0.52	2.01	1294	1.55	1681
80	0	0	0	0.52	2.26	1151	1.75	1485
90	0	0	0	0.52	2.51	1037	1.97	1319
100	0	0	0	0.52	2.7	962	2.2	1182
110	0	0	0	0.52	2.82	922	2.43	1069
120	0	0	0	0.52	2.94	884	2.66	977
130	0	0	0	0.52	3.06	850	2.89	901
167	0	0	0	0.52	3.5	743	3.49	746
212	0	0	0	0.52	4.02	648	4	650

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.876	4.35	2268	3.94	2500*
20	0	0	0	0.52	2.69	2176	2.32	2521
30	0	0	0	0.52	2.99	1956	2.55	2298
40	0	0	0	0.52	3.31	1768	2.79	2094
50	0	0	0	0.52	3.64	1609	3.06	1910
60	0	0	0	0.52	3.96	1477	3.35	1748
70	0	0	0	0.52	4.29	1365	3.64	1607
80	0	0	0	0.52	4.61	1271	3.94	1485
90	0	0	0	0.52	4.91	1192	4.24	1380
100	0	0	0	0.52	5.22	1123	4.54	1289
110	0	0	0	0.52	5.48	1069	4.83	1211
120	0	0	0	0.52	5.64	1039	5.12	1144
130	0	0	0	0.52	5.79	1011	5.4	1084
167	0	0	0	0.52	6.36	921	6.34	925
212	0	0	0	0.52	7.03	834	7.01	837

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.876	7.5	2338	7.01	2500*
20	0	0	0	0.52	5.49	1896	4.88	2133
30	0	0	0	0.52	5.89	1769	5.23	1990
40	0	0	0	0.52	6.28	1658	5.58	1864
50	0	0	0	0.52	6.66	1563	5.94	1751
60	0	0	0	0.52	7.04	1479	6.3	1651
70	0	0	0	0.52	7.41	1405	6.66	1563
80	0	0	0	0.52	7.77	1341	7.01	1485
90	0	0	0	0.52	8.12	1283	7.36	1415
100	0	0	0	0.52	8.46	1231	7.7	1352
110	0	0	0	0.52	8.8	1185	8.04	1296
120	0	0	0	0.52	9.09	1147	8.37	1245
130	0	0	0	0.52	9.27	1124	8.69	1200
167	0	0	0	0.52	9.94	1049	9.82	1062
212	0	0	0	0.52	10.73	972	10.7	974

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.146

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.876	11.51	2383	10.97	2500*
20	0	0	0	0.52	9.32	1745	8.58	1895
30	0	0	0	0.52	9.76	1668	8.99	1809
40	0	0	0	0.52	10.18	1599	9.4	1731
50	0	0	0	0.52	10.59	1537	9.8	1661
60	0	0	0	0.52	11	1480	10.2	1597
70	0	0	0	0.52	11.39	1429	10.58	1538
80	0	0	0	0.52	11.78	1382	10.97	1485
90	0	0	0	0.52	12.16	1340	11.34	1436
100	0	0	0	0.52	12.53	1300	11.71	1390
110	0	0	0	0.52	12.89	1264	12.08	1349
120	0	0	0	0.52	13.25	1230	12.43	1310
130	0	0	0	0.52	13.53	1205	12.78	1275
167	0	0	0	0.52	14.28	1142	14.03	1162
212	0	0	0	0.52	15.17	1075	15.14	1077

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-4	0-4	0-5
100.00	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10
125.00	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-3
150.00	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-2	1-6	1-9
175.00	0-7	0-8	0-9	0-10	0-11	1-1	1-4	1-8	2-0	2-5
200.00	0-9	0-10	1-0	1-1	1-3	1-6	1-9	2-2	2-7	3-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-3	0-4	0-5	0-5	0-6	0-6
100.00	0-3	0-3	0-4	0-4	0-5	0-7	0-8	0-9	0-10	0-11
125.00	0-4	0-5	0-6	0-7	0-8	0-10	1-1	1-3	1-4	1-5
150.00	0-6	0-7	0-8	0-10	1-0	1-3	1-7	1-9	1-11	2-1
175.00	0-8	0-9	0-11	1-1	1-4	1-8	2-2	2-5	2-7	2-10
200.00	0-10	1-0	1-2	1-5	1-9	2-3	2-10	3-2	3-5	3-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.148

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-7
125.00	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11
150.00	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-4
175.00	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-8	1-10
200.00	0-10	1-0	1-1	1-2	1-4	1-7	1-9	2-0	2-2	2-5
225.00	1-1	1-3	1-4	1-6	1-9	1-11	2-3	2-6	2-9	3-1
250.00	1-4	1-6	1-8	1-11	2-2	2-5	2-9	3-1	3-5	3-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-8
125.00	0-5	0-5	0-6	0-7	0-8	0-9	0-11	1-0	1-1	1-1
150.00	0-7	0-8	0-9	0-10	1-0	1-2	1-3	1-5	1-6	1-7
175.00	0-9	0-11	1-0	1-2	1-4	1-6	1-9	1-11	2-1	2-2
200.00	1-0	1-2	1-4	1-6	1-9	2-0	2-3	2-6	2-8	2-10
225.00	1-3	1-5	1-8	1-11	2-3	2-7	2-10	3-2	3-5	3-7
250.00	1-7	1-10	2-1	2-5	2-9	3-2	3-6	3-11	4-3	4-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.149

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-2
175.00	0-9	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-7	1-8
200.00	1-0	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-0	2-2
225.00	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9
250.00	1-7	1-9	1-11	2-2	2-4	2-6	2-9	2-11	3-2	3-4
275.00	1-11	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-10	4-1
300.00	2-4	2-7	2-10	3-1	3-4	3-8	3-11	4-3	4-6	4-10
325.00	2-9	3-0	3-3	3-7	3-11	4-3	4-8	5-0	5-4	5-8
350.00	3-2	3-6	3-10	4-2	4-7	5-0	5-4	5-9	6-2	6-7
375.00	3-8	4-0	4-4	4-9	5-3	5-8	6-2	6-8	7-1	7-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-4
175.00	0-11	1-0	1-2	1-3	1-4	1-6	1-7	1-8	1-9	1-10
200.00	1-2	1-4	1-6	1-7	1-9	1-11	2-1	2-2	2-4	2-5
225.00	1-6	1-8	1-10	2-1	2-3	2-5	2-7	2-9	2-11	3-1
250.00	1-10	2-1	2-4	2-6	2-9	3-0	3-2	3-5	3-7	3-10
275.00	2-3	2-6	2-9	3-1	3-4	3-7	3-10	4-2	4-5	4-7
300.00	2-8	3-0	3-4	3-8	4-0	4-3	4-7	4-11	5-3	5-6
325.00	3-2	3-6	3-11	4-3	4-8	5-0	5-5	5-9	6-1	6-5
350.00	3-8	4-1	4-6	4-11	5-5	5-10	6-3	6-8	7-1	7-6
375.00	4-2	4-8	5-2	5-8	6-2	6-8	7-2	7-8	8-2	8-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.150

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0
225.00	1-7	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-7
250.00	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-10	3-0	3-2
275.00	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10
300.00	2-9	2-11	3-2	3-4	3-7	3-9	3-11	4-2	4-4	4-6
325.00	3-3	3-5	3-8	3-11	4-2	4-5	4-8	4-10	5-1	5-4
350.00	3-9	4-0	4-3	4-7	4-10	5-1	5-4	5-8	5-11	6-2
375.00	4-3	4-7	4-11	5-3	5-6	5-10	6-2	6-6	6-9	7-1
400.00	4-11	5-3	5-7	5-11	6-4	6-8	7-0	7-4	7-8	8-0
425.00	5-6	5-11	6-4	6-9	7-1	7-6	7-11	8-4	8-8	9-1
450.00	6-2	6-7	7-1	7-6	8-0	8-5	8-11	9-4	9-9	10-2
475.00	6-11	7-4	7-11	8-5	8-11	9-5	9-11	10-5	10-10	11-4
500.00	7-7	8-2	8-9	9-3	9-10	10-5	11-0	11-6	12-0	12-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-4	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
225.00	1-9	1-10	2-0	2-1	2-3	2-4	2-5	2-7	2-8	2-9
250.00	2-2	2-4	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-5
275.00	2-7	2-9	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2
300.00	3-1	3-4	3-6	3-9	4-0	4-2	4-4	4-7	4-9	4-11
325.00	3-7	3-11	4-2	4-5	4-8	4-11	5-2	5-4	5-7	5-10
350.00	4-2	4-6	4-10	5-1	5-5	5-8	5-11	6-3	6-6	6-9
375.00	4-10	5-2	5-6	5-10	6-2	6-6	6-10	7-2	7-5	7-9
400.00	5-6	5-11	6-3	6-8	7-0	7-5	7-9	8-1	8-6	8-10
425.00	6-2	6-8	7-1	7-6	7-11	8-4	8-9	9-2	9-7	9-11
450.00	6-11	7-5	7-11	8-5	8-11	9-5	9-10	10-3	10-9	11-2
475.00	7-9	8-4	8-10	9-5	9-11	10-5	11-0	11-5	11-11	12-5
500.00	8-7	9-2	9-10	10-5	11-0	11-7	12-2	12-8	13-3	13-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.151

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-2	2-3	2-4	2-5	2-7	2-8	2-9	2-10	2-11	3-0
275.00	2-7	2-9	2-10	3-0	3-1	3-2	3-4	3-5	3-6	3-8
300.00	3-1	3-3	3-5	3-6	3-8	3-10	3-11	4-1	4-3	4-4
325.00	3-8	3-10	4-0	4-2	4-4	4-6	4-8	4-9	4-11	5-1
350.00	4-2	4-5	4-7	4-10	5-0	5-2	5-4	5-7	5-9	5-11
375.00	4-10	5-1	5-3	5-6	5-9	5-11	6-2	6-5	6-7	6-9
400.00	5-6	5-9	6-0	6-3	6-6	6-9	7-0	7-3	7-6	7-9
425.00	6-2	6-6	6-9	7-1	7-4	7-8	7-11	8-2	8-6	8-9
450.00	6-11	7-3	7-7	7-11	8-3	8-7	8-11	9-2	9-6	9-9
475.00	7-9	8-1	8-6	8-10	9-2	9-7	9-11	10-3	10-7	10-11
500.00	8-7	9-0	9-5	9-10	10-2	10-7	11-0	11-4	11-9	12-1
525.00	9-6	9-11	10-4	10-10	11-3	11-8	12-1	12-6	12-11	13-4
550.00	10-5	10-11	11-4	11-10	12-4	12-10	13-3	13-9	14-2	14-7
575.00	11-4	11-11	12-5	13-0	13-6	14-0	14-6	15-0	15-6	16-0
600.00	12-4	12-11	13-6	14-1	14-8	15-3	15-10	16-4	16-10	17-5
625.00	13-5	14-1	14-8	15-4	15-11	16-7	17-2	17-9	18-4	18-11

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-4	2-5	2-7	2-8	2-9	2-10	2-11	3-0	3-2	3-3
275.00	2-10	2-11	3-1	3-2	3-4	3-5	3-7	3-8	3-9	3-11
300.00	3-4	3-6	3-8	3-10	3-11	4-1	4-3	4-5	4-6	4-8
325.00	3-11	4-1	4-4	4-6	4-8	4-10	5-0	5-2	5-3	5-5
350.00	4-7	4-9	5-0	5-2	5-5	5-7	5-9	5-11	6-2	6-4
375.00	5-3	5-6	5-9	5-11	6-2	6-5	6-7	6-10	7-1	7-3
400.00	6-0	6-3	6-6	6-9	7-0	7-3	7-6	7-9	8-0	8-3
425.00	6-9	7-1	7-4	7-8	7-11	8-3	8-6	8-9	9-1	9-4
450.00	7-7	7-11	8-3	8-7	8-11	9-3	9-6	9-10	10-2	10-5
475.00	8-5	8-10	9-2	9-7	9-11	10-3	10-8	11-0	11-4	11-8
500.00	9-4	9-9	10-2	10-7	11-0	11-5	11-9	12-2	12-6	12-11
525.00	10-3	10-9	11-3	11-8	12-2	12-7	13-0	13-5	13-10	14-3
550.00	11-3	11-10	12-4	12-10	13-4	13-9	14-3	14-9	15-2	15-7
575.00	12-4	12-11	13-6	14-0	14-7	15-1	15-7	16-1	16-7	17-1
600.00	13-5	14-1	14-8	15-3	15-10	16-5	17-0	17-6	18-1	18-7
625.00	14-7	15-3	15-11	16-7	17-2	17-10	18-5	19-0	19-7	20-2

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SHEET 152 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.152

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.876	0.47	2311	0.36	3000*
20	0	0	0	0.52	0.19	3379	0.17	3841
30	0	0	0	0.52	0.22	2969	0.18	3543
40	0	0	0	0.52	0.25	2565	0.2	3239
50	0	0	0	0.52	0.3	2170	0.22	2930
60	0	0	0	0.52	0.36	1793	0.25	2618
70	0	0	0	0.52	0.45	1445	0.28	2303
80	0	0	0	0.52	0.57	1148	0.33	1990
90	0	0	0	0.52	0.66	988	0.39	1684
100	0	0	0	0.52	0.71	913	0.47	1395
110	0	0	0	0.52	0.77	843	0.57	1139
120	0	0	0	0.52	0.83	779	0.7	929
130	0	0	0	0.52	0.9	720	0.84	770
167	0	0	0	0.52	1.17	554	1.16	563
212	0	0	0	0.52	1.51	431	1.49	436

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.876	1.77	2477	1.46	3000*
20	0	0	0	0.52	0.84	3108	0.72	3604
30	0	0	0	0.52	0.95	2739	0.78	3317
40	0	0	0	0.52	1.09	2391	0.86	3029
50	0	0	0	0.52	1.25	2072	0.95	2743
60	0	0	0	0.52	1.45	1790	1.06	2462
70	0	0	0	0.52	1.68	1552	1.19	2193
80	0	0	0	0.52	1.92	1357	1.34	1940
90	0	0	0	0.52	2.17	1201	1.52	1710
100	0	0	0	0.52	2.36	1100	1.72	1509
110	0	0	0	0.52	2.48	1050	1.94	1338
120	0	0	0	0.52	2.59	1003	2.17	1197
130	0	0	0	0.52	2.71	959	2.41	1081
167	0	0	0	0.52	3.15	825	3.12	834
212	0	0	0	0.52	3.68	707	3.65	712

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.153

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	3.77	2616	3.29	3000*
20	0	0	0	0.52	2.12	2754	1.8	3253
30	0	0	0	0.52	2.37	2464	1.95	2993
40	0	0	0	0.52	2.65	2205	2.13	2742
50	0	0	0	0.52	2.96	1980	2.34	2503
60	0	0	0	0.52	3.27	1788	2.57	2280
70	0	0	0	0.52	3.6	1627	2.82	2076
80	0	0	0	0.52	3.93	1491	3.09	1893
90	0	0	0	0.52	4.25	1378	3.38	1732
100	0	0	0	0.52	4.57	1282	3.68	1592
110	0	0	0	0.52	4.85	1207	3.98	1472
120	0	0	0	0.52	5.01	1170	4.28	1368
130	0	0	0	0.52	5.16	1134	4.58	1279
167	0	0	0	0.52	5.74	1020	5.63	1040
212	0	0	0	0.52	6.43	911	6.39	917

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	6.46	2715	5.84	3000*
20	0	0	0	0.52	4.26	2442	3.63	2867
30	0	0	0	0.52	4.64	2242	3.91	2659
40	0	0	0	0.52	5.03	2067	4.22	2466
50	0	0	0	0.52	5.43	1917	4.55	2289
60	0	0	0	0.52	5.83	1787	4.89	2130
70	0	0	0	0.52	6.22	1674	5.24	1986
80	0	0	0	0.52	6.61	1576	5.6	1859
90	0	0	0	0.52	6.98	1491	5.96	1746
100	0	0	0	0.52	7.35	1416	6.32	1647
110	0	0	0	0.52	7.72	1350	6.68	1558
120	0	0	0	0.52	8.05	1295	7.04	1480
130	0	0	0	0.52	8.24	1265	7.38	1410
167	0	0	0	0.52	8.93	1167	8.62	1209
212	0	0	0	0.52	9.75	1069	9.7	1075

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.876	9.84	2784	9.14	3000*
20	0	0	0	0.52	7.3	2228	6.4	2542
30	0	0	0	0.52	7.76	2096	6.79	2394
40	0	0	0	0.52	8.22	1979	7.2	2259
50	0	0	0	0.52	8.67	1877	7.61	2137
60	0	0	0	0.52	9.11	1785	8.03	2026
70	0	0	0	0.52	9.55	1704	8.44	1927
80	0	0	0	0.52	9.98	1631	8.86	1837
90	0	0	0	0.52	10.4	1566	9.27	1756
100	0	0	0	0.52	10.81	1507	9.67	1683
110	0	0	0	0.52	11.21	1453	10.07	1616
120	0	0	0	0.52	11.6	1404	10.47	1555
130	0	0	0	0.52	11.94	1364	10.85	1500
167	0	0	0	0.52	12.73	1280	12.23	1332
212	0	0	0	0.52	13.67	1192	13.61	1197

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.155

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-6	0-7
125.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-11
150.00	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-1	1-3
175.00	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-2	1-5	1-9
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-10	2-3

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-4	0-5	0-5
100.00	0-2	0-3	0-3	0-4	0-4	0-5	0-7	0-8	0-9	0-9
125.00	0-4	0-4	0-5	0-6	0-7	0-8	0-11	1-0	1-1	1-2
150.00	0-5	0-6	0-7	0-8	0-10	1-0	1-3	1-6	1-7	1-9
175.00	0-7	0-8	0-9	0-11	1-1	1-5	1-9	2-0	2-2	2-4
200.00	0-9	0-11	1-0	1-2	1-5	1-10	2-3	2-8	2-10	3-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.156

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
125.00	0-3	0-4	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-9
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-1
175.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6
200.00	0-9	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-9	1-11
225.00	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-11	2-2	2-6
250.00	1-2	1-3	1-4	1-6	1-8	1-10	2-1	2-5	2-8	3-0

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-7
125.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
150.00	0-6	0-6	0-7	0-8	0-10	0-11	1-1	1-3	1-4	1-5
175.00	0-8	0-9	0-10	1-0	1-1	1-3	1-6	1-8	1-10	1-11
200.00	0-10	0-11	1-1	1-3	1-5	1-8	1-11	2-2	2-4	2-6
225.00	1-1	1-2	1-5	1-7	1-10	2-1	2-5	2-9	3-0	3-2
250.00	1-4	1-6	1-8	2-0	2-3	2-7	3-0	3-5	3-8	3-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0
175.00	0-7	0-8	0-9	0-10	0-10	1-0	1-1	1-2	1-3	1-4
200.00	0-10	0-10	0-11	1-0	1-2	1-3	1-4	1-6	1-8	1-9
225.00	1-0	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2-3
250.00	1-3	1-4	1-6	1-7	1-9	1-11	2-2	2-4	2-7	2-9
275.00	1-6	1-8	1-10	2-0	2-2	2-4	2-7	2-10	3-1	3-4
300.00	1-10	1-11	2-2	2-4	2-7	2-10	3-1	3-5	3-8	4-0
325.00	2-1	2-4	2-6	2-9	3-0	3-4	3-8	4-0	4-4	4-8
350.00	2-5	2-8	2-11	3-2	3-6	3-10	4-3	4-7	5-0	5-5
375.00	2-10	3-1	3-4	3-8	4-0	4-5	4-10	5-3	5-9	6-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
175.00	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-8
200.00	0-11	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-0	2-2
225.00	1-2	1-4	1-6	1-8	1-10	2-0	2-2	2-5	2-7	2-9
250.00	1-6	1-8	1-10	2-1	2-3	2-6	2-9	2-11	3-2	3-4
275.00	1-9	2-0	2-3	2-6	2-9	3-0	3-4	3-7	3-10	4-1
300.00	2-1	2-4	2-8	2-11	3-3	3-7	3-11	4-3	4-7	4-10
325.00	2-6	2-9	3-1	3-6	3-10	4-3	4-7	5-0	5-4	5-8
350.00	2-11	3-3	3-7	4-0	4-5	4-11	5-4	5-9	6-3	6-7
375.00	3-4	3-9	4-2	4-7	5-1	5-7	6-2	6-8	7-2	7-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.158

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
225.00	1-2	1-3	1-4	1-5	1-7	1-8	1-9	1-11	2-0	2-1
250.00	1-5	1-6	1-8	1-9	1-11	2-1	2-2	2-4	2-6	2-7
275.00	1-9	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2
300.00	2-0	2-2	2-4	2-7	2-9	2-11	3-2	3-4	3-7	3-9
325.00	2-5	2-7	2-9	3-0	3-3	3-6	3-8	3-11	4-2	4-5
350.00	2-9	3-0	3-3	3-6	3-9	4-0	4-3	4-7	4-10	5-1
375.00	3-2	3-5	3-9	4-0	4-4	4-7	4-11	5-3	5-7	5-10
400.00	3-8	3-11	4-3	4-7	4-11	5-3	5-7	6-0	6-4	6-8
425.00	4-1	4-5	4-9	5-2	5-6	5-11	6-4	6-9	7-2	7-7
450.00	4-7	4-11	5-4	5-9	6-2	6-8	7-1	7-7	8-0	8-5
475.00	5-1	5-6	5-11	6-5	6-11	7-5	7-11	8-5	8-11	9-5
500.00	5-8	6-1	6-7	7-1	7-8	8-2	8-9	9-4	9-11	10-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-9	1-10	1-11
225.00	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-5
250.00	1-8	1-10	2-0	2-1	2-3	2-5	2-7	2-9	2-10	3-0
275.00	2-0	2-2	2-5	2-7	2-9	2-11	3-1	3-4	3-6	3-8
300.00	2-5	2-7	2-10	3-1	3-3	3-6	3-9	3-11	4-2	4-4
325.00	2-10	3-1	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-1
350.00	3-3	3-7	3-10	4-2	4-6	4-9	5-1	5-4	5-8	5-11
375.00	3-9	4-1	4-5	4-9	5-1	5-6	5-10	6-2	6-6	6-9
400.00	4-3	4-8	5-0	5-5	5-10	6-3	6-7	7-0	7-4	7-9
425.00	4-10	5-3	5-8	6-2	6-7	7-0	7-5	7-11	8-4	8-9
450.00	5-5	5-11	6-4	6-10	7-4	7-10	8-4	8-10	9-4	9-9
475.00	6-0	6-7	7-1	7-8	8-3	8-9	9-4	9-10	10-4	10-11
500.00	6-8	7-3	7-10	8-6	9-1	9-9	10-4	10-11	11-6	12-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.159

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-7	1-8	1-10	1-11	2-0	2-1	2-3	2-4	2-5	2-6
275.00	1-11	2-1	2-2	2-4	2-5	2-7	2-8	2-10	2-11	3-1
300.00	2-4	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-6	3-7
325.00	2-8	2-10	3-0	3-3	3-5	3-7	3-9	3-11	4-1	4-3
350.00	3-2	3-4	3-6	3-9	3-11	4-2	4-4	4-6	4-9	4-11
375.00	3-7	3-10	4-1	4-3	4-6	4-9	5-0	5-3	5-5	5-8
400.00	4-1	4-4	4-7	4-10	5-2	5-5	5-8	5-11	6-2	6-5
425.00	4-7	4-11	5-2	5-6	5-10	6-1	6-5	6-8	7-0	7-3
450.00	5-2	5-6	5-10	6-2	6-6	6-10	7-2	7-6	7-10	8-2
475.00	5-9	6-2	6-6	6-10	7-3	7-7	8-0	8-4	8-9	9-1
500.00	6-5	6-10	7-2	7-7	8-0	8-5	8-10	9-3	9-8	10-1
525.00	7-1	7-6	7-11	8-5	8-10	9-4	9-9	10-3	10-8	11-1
550.00	7-9	8-3	8-9	9-3	9-9	10-3	10-9	11-3	11-8	12-2
575.00	8-6	9-0	9-6	10-1	10-7	11-2	11-9	12-3	12-10	13-4
600.00	9-3	9-9	10-4	11-0	11-7	12-2	12-9	13-4	13-11	14-6
625.00	10-0	10-7	11-3	11-11	12-7	13-2	13-10	14-6	15-1	15-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-10	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-8	2-10
275.00	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-2	3-3	3-5
300.00	2-8	2-10	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-0
325.00	3-1	3-3	3-6	3-8	3-10	4-0	4-3	4-5	4-7	4-9
350.00	3-7	3-10	4-0	4-3	4-6	4-8	4-11	5-1	5-4	5-6
375.00	4-1	4-4	4-7	4-11	5-2	5-4	5-7	5-10	6-1	6-4
400.00	4-8	5-0	5-3	5-7	5-10	6-1	6-5	6-8	6-11	7-2
425.00	5-3	5-7	5-11	6-3	6-7	6-11	7-2	7-6	7-10	8-1
450.00	5-11	6-3	6-8	7-0	7-5	7-9	8-1	8-5	8-9	9-1
475.00	6-7	7-0	7-5	7-10	8-3	8-7	9-0	9-5	9-9	10-1
500.00	7-4	7-9	8-3	8-8	9-1	9-7	10-0	10-5	10-10	11-2
525.00	8-1	8-7	9-1	9-7	10-1	10-6	11-0	11-6	11-11	12-4
550.00	8-10	9-5	9-11	10-6	11-0	11-7	12-1	12-7	13-1	13-7
575.00	9-8	10-3	10-10	11-6	12-1	12-8	13-2	13-9	14-4	14-10
600.00	10-6	11-2	11-10	12-6	13-2	13-9	14-4	15-0	15-7	16-2
625.00	11-5	12-2	12-10	13-7	14-3	14-11	15-7	16-3	16-11	17-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	1.1	991	1.1	1000*
0	0	0	0	0.52	0.65	1000	0.65	1000
30	0	0	0	0.52	1.11	585	1.07	605
40	0	0	0	0.52	1.25	518	1.21	536
50	0	0	0	0.52	1.39	468	1.34	484
60	0	0	0	0.52	1.52	429	1.47	443
70	0	0	0	0.52	1.63	398	1.58	411
80	0	0	0	0.52	1.74	374	1.7	384
90	0	0	0	0.52	1.81	360	1.8	361
100	0	0	0	0.52	1.87	347	1.87	347
110	0	0	0	0.52	1.94	336	1.94	336
120	0	0	0	0.52	2	326	2	326
130	0	0	0	0.52	2.06	316	2.06	316
167	0	0	0	0.52	2.27	287	2.27	287
212	0	0	0	0.52	2.51	259	2.51	259

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	4.43	991	4.39	1000*
0	0	0	0	0.52	3.89	669	3.84	679
30	0	0	0	0.52	4.44	587	4.36	597
40	0	0	0	0.52	4.6	566	4.53	575
50	0	0	0	0.52	4.77	546	4.69	556
60	0	0	0	0.52	4.93	529	4.85	538
70	0	0	0	0.52	5.08	513	5	522
80	0	0	0	0.52	5.24	498	5.15	507
90	0	0	0	0.52	5.37	486	5.29	493
100	0	0	0	0.52	5.46	478	5.43	480
110	0	0	0	0.52	5.55	470	5.55	470
120	0	0	0	0.52	5.64	462	5.64	462
130	0	0	0	0.52	5.73	455	5.73	455
167	0	0	0	0.52	6.05	431	6.05	431
212	0	0	0	0.52	6.42	406	6.42	406

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.161

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	9.95	995	9.9	1000*
0	0	0	0	0.52	9.41	624	9.34	629
30	0	0	0	0.52	9.95	590	9.87	595
40	0	0	0	0.52	10.13	580	10.04	585
50	0	0	0	0.52	10.31	570	10.21	576
60	0	0	0	0.52	10.48	561	10.38	566
70	0	0	0	0.52	10.65	552	10.54	558
80	0	0	0	0.52	10.81	544	10.71	549
90	0	0	0	0.52	10.98	536	10.87	541
100	0	0	0	0.52	11.09	530	11.03	533
110	0	0	0	0.52	11.19	526	11.18	526
120	0	0	0	0.52	11.3	521	11.3	521
130	0	0	0	0.52	11.4	516	11.4	516
167	0	0	0	0.52	11.78	500	11.78	500
212	0	0	0	0.52	12.22	482	12.22	482

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	17.71	997	17.65	1000*
0	0	0	0	0.52	17.17	610	17.09	613
30	0	0	0	0.52	17.72	592	17.63	595
40	0	0	0	0.52	17.9	586	17.8	589
50	0	0	0	0.52	18.07	580	17.97	583
60	0	0	0	0.52	18.25	575	18.15	578
70	0	0	0	0.52	18.43	569	18.32	573
80	0	0	0	0.52	18.6	564	18.49	567
90	0	0	0	0.52	18.77	559	18.65	562
100	0	0	0	0.52	18.9	555	18.82	557
110	0	0	0	0.52	19.01	552	18.99	553
120	0	0	0	0.52	19.13	549	19.13	549
130	0	0	0	0.52	19.24	546	19.24	546
167	0	0	0	0.52	19.64	535	19.64	535
212	0	0	0	0.52	20.12	522	20.12	522

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.162

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	27.76	998	27.7	1000*
0	0	0	0	0.52	27.22	604	27.15	606
30	0	0	0	0.52	27.77	592	27.68	594
40	0	0	0	0.52	27.95	589	27.85	591
50	0	0	0	0.52	28.13	585	28.03	587
60	0	0	0	0.52	28.31	581	28.2	583
70	0	0	0	0.52	28.49	578	28.38	580
80	0	0	0	0.52	28.67	574	28.55	577
90	0	0	0	0.52	28.84	571	28.72	573
100	0	0	0	0.52	28.98	568	28.89	570
110	0	0	0	0.52	29.1	566	29.06	567
120	0	0	0	0.52	29.22	564	29.22	564
130	0	0	0	0.52	29.33	562	29.33	562
167	0	0	0	0.52	29.75	554	29.75	554
212	0	0	0	0.52	30.26	545	30.26	545

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-1
100.00	0-11	1-1	1-3	1-4	1-6	1-7	1-8	1-10	1-10	1-11
125.00	1-5	1-8	1-11	2-1	2-4	2-6	2-8	2-10	2-11	3-0
150.00	2-1	2-5	2-9	3-0	3-4	3-7	3-10	4-1	4-3	4-4
175.00	2-10	3-4	3-9	4-1	4-6	4-10	5-2	5-6	5-9	5-11
200.00	3-9	4-4	4-10	5-5	5-10	6-4	6-9	7-3	7-6	7-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-8	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-1
100.00	1-0	1-1	1-3	1-5	1-6	1-8	1-9	1-10	1-10	1-11
125.00	1-6	1-9	2-0	2-2	2-4	2-7	2-9	2-10	2-11	3-0
150.00	2-2	2-6	2-10	3-2	3-5	3-8	3-11	4-1	4-3	4-4
175.00	2-11	3-5	3-10	4-3	4-8	5-0	5-4	5-6	5-9	5-11
200.00	3-10	4-5	5-0	5-7	6-1	6-7	7-0	7-3	7-6	7-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-1	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-5
125.00	1-8	1-8	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2
150.00	2-4	2-5	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-1
175.00	3-3	3-4	3-6	3-7	3-9	3-10	3-11	4-1	4-2	4-3
200.00	4-2	4-4	4-6	4-8	4-10	5-0	5-2	5-3	5-5	5-7
225.00	5-4	5-6	5-9	5-11	6-2	6-4	6-6	6-8	6-11	7-0
250.00	6-7	6-10	7-1	7-4	7-7	7-10	8-1	8-3	8-6	8-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4	1-5
125.00	1-8	1-9	1-10	1-10	1-11	2-0	2-1	2-1	2-2	2-2
150.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-1
175.00	3-3	3-5	3-6	3-8	3-9	3-11	4-0	4-1	4-2	4-3
200.00	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-4	5-6	5-7
225.00	5-5	5-7	5-10	6-0	6-3	6-5	6-8	6-10	6-11	7-0
250.00	6-8	6-11	7-2	7-5	7-8	7-11	8-2	8-5	8-6	8-8

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STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.165

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-10
175.00	3-4	3-4	3-5	3-6	3-6	3-7	3-8	3-8	3-9	3-10
200.00	4-4	4-5	4-6	4-6	4-7	4-8	4-9	4-10	4-11	5-0
225.00	5-5	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3
250.00	6-9	6-10	7-0	7-1	7-2	7-4	7-5	7-7	7-8	7-9
275.00	8-2	8-3	8-5	8-7	8-9	8-10	9-0	9-2	9-3	9-5
300.00	9-8	9-10	10-1	10-3	10-5	10-7	10-8	10-10	11-0	11-2
325.00	11-5	11-7	11-9	12-0	12-2	12-5	12-7	12-9	12-11	13-2
350.00	13-2	13-5	13-8	13-11	14-2	14-4	14-7	14-10	15-0	15-3
375.00	15-2	15-5	15-8	16-0	16-3	16-6	16-9	17-0	17-3	17-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-10
175.00	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10
200.00	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-10	4-11	5-0
225.00	5-6	5-7	5-8	5-10	5-11	6-0	6-1	6-2	6-3	6-3
250.00	6-9	6-11	7-0	7-2	7-3	7-5	7-6	7-7	7-8	7-9
275.00	8-3	8-4	8-6	8-8	8-10	8-11	9-1	9-3	9-4	9-5
300.00	9-9	9-11	10-2	10-4	10-6	10-8	10-10	11-0	11-1	11-2
325.00	11-6	11-8	11-11	12-1	12-4	12-6	12-8	12-11	13-0	13-2
350.00	13-4	13-7	13-10	14-0	14-3	14-6	14-9	14-11	15-1	15-3
375.00	15-3	15-7	15-10	16-1	16-5	16-8	16-11	17-2	17-4	17-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.166

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-4	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9
225.00	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-11	5-11	6-0
250.00	6-10	6-10	6-11	7-0	7-1	7-2	7-3	7-3	7-4	7-5
275.00	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-11	9-0
300.00	9-10	9-11	10-0	10-1	10-2	10-3	10-5	10-6	10-7	10-8
325.00	11-6	11-8	11-9	11-10	12-0	12-1	12-2	12-4	12-5	12-6
350.00	13-4	13-6	13-7	13-9	13-11	14-0	14-2	14-3	14-5	14-6
375.00	15-4	15-6	15-8	15-10	15-11	16-1	16-3	16-5	16-6	16-8
400.00	17-5	17-8	17-10	18-0	18-2	18-4	18-6	18-8	18-10	19-0
425.00	19-8	19-11	20-1	20-4	20-6	20-8	20-11	21-1	21-3	21-5
450.00	22-1	22-4	22-7	22-9	23-0	23-2	23-5	23-8	23-10	24-1
475.00	24-8	24-11	25-2	25-4	25-7	25-10	26-1	26-4	26-7	26-10
500.00	27-4	27-7	27-10	28-2	28-5	28-8	28-11	29-2	29-5	29-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9	4-9
225.00	5-6	5-7	5-8	5-9	5-9	5-10	5-10	5-11	6-0	6-0
250.00	6-10	6-11	7-0	7-1	7-1	7-2	7-3	7-4	7-4	7-5
275.00	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-11	9-0
300.00	9-10	9-11	10-1	10-2	10-3	10-4	10-5	10-7	10-7	10-8
325.00	11-7	11-8	11-10	11-11	12-0	12-2	12-3	12-5	12-6	12-6
350.00	13-5	13-7	13-8	13-10	14-0	14-1	14-3	14-4	14-6	14-7
375.00	15-5	15-7	15-9	15-11	16-0	16-2	16-4	16-6	16-7	16-8
400.00	17-6	17-9	17-11	18-1	18-3	18-5	18-7	18-9	18-11	19-0
425.00	19-10	20-0	20-3	20-5	20-7	20-10	21-0	21-2	21-4	21-6
450.00	22-2	22-5	22-8	22-11	23-1	23-4	23-7	23-9	23-11	24-1
475.00	24-9	25-0	25-3	25-6	25-9	26-0	26-3	26-6	26-8	26-10
500.00	27-5	27-9	28-0	28-3	28-7	28-10	29-1	29-5	29-7	29-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.167

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-10	6-11	6-11	7-0	7-0	7-1	7-1	7-2	7-2	7-3
275.00	8-4	8-4	8-5	8-5	8-6	8-7	8-7	8-8	8-9	8-9
300.00	9-11	9-11	10-0	10-1	10-2	10-2	10-3	10-4	10-4	10-5
325.00	11-7	11-8	11-9	11-10	11-11	12-0	12-0	12-1	12-2	12-3
350.00	13-5	13-6	13-7	13-8	13-9	13-10	14-0	14-1	14-2	14-3
375.00	15-5	15-7	15-8	15-9	15-10	15-11	16-0	16-2	16-3	16-4
400.00	17-7	17-8	17-10	17-11	18-0	18-2	18-3	18-4	18-6	18-7
425.00	19-10	20-0	20-1	20-3	20-4	20-6	20-7	20-9	20-10	21-0
450.00	22-3	22-5	22-7	22-8	22-10	23-0	23-1	23-3	23-5	23-6
475.00	24-10	25-0	25-2	25-3	25-5	25-7	25-9	25-11	26-1	26-3
500.00	27-6	27-8	27-10	28-0	28-2	28-5	28-7	28-9	28-11	29-1
525.00	30-4	30-6	30-9	30-11	31-1	31-4	31-6	31-8	31-10	32-1
550.00	33-4	33-6	33-9	33-11	34-2	34-4	34-7	34-9	35-0	35-2
575.00	36-5	36-8	36-11	37-1	37-4	37-7	37-10	38-0	38-3	38-6
600.00	39-8	39-11	40-2	40-5	40-8	40-11	41-2	41-5	41-8	41-11
625.00	43-1	43-4	43-7	43-11	44-2	44-5	44-9	45-0	45-3	45-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-11	6-11	7-0	7-0	7-1	7-1	7-2	7-2	7-3	7-3
275.00	8-4	8-5	8-5	8-6	8-6	8-7	8-8	8-8	8-9	8-9
300.00	9-11	10-0	10-0	10-1	10-2	10-3	10-3	10-4	10-5	10-5
325.00	11-8	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-3
350.00	13-6	13-7	13-8	13-9	13-10	13-11	14-0	14-1	14-2	14-3
375.00	15-6	15-7	15-8	15-10	15-11	16-0	16-1	16-2	16-3	16-4
400.00	17-8	17-9	17-10	18-0	18-1	18-2	18-4	18-5	18-6	18-7
425.00	19-11	20-1	20-2	20-4	20-5	20-7	20-8	20-10	20-11	21-0
450.00	22-4	22-6	22-7	22-9	22-11	23-1	23-2	23-4	23-5	23-7
475.00	24-11	25-1	25-3	25-5	25-6	25-8	25-10	26-0	26-2	26-3
500.00	27-7	27-9	27-11	28-2	28-4	28-6	28-8	28-10	29-0	29-1
525.00	30-5	30-8	30-10	31-0	31-3	31-5	31-7	31-10	32-0	32-1
550.00	33-5	33-8	33-10	34-1	34-3	34-6	34-9	34-11	35-1	35-3
575.00	36-6	36-9	37-0	37-3	37-6	37-9	38-0	38-2	38-5	38-6
600.00	39-10	40-1	40-4	40-7	40-10	41-1	41-4	41-7	41-10	42-0
625.00	43-2	43-6	43-9	44-1	44-4	44-7	44-11	45-2	45-5	45-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.168

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	0.74	1475	0.73	1500*
0	0	0	0	0.52	0.36	1821	0.36	1821
30	0	0	0	0.52	0.68	958	0.63	1032
40	0	0	0	0.52	0.83	781	0.76	850
50	0	0	0	0.52	0.99	657	0.91	715
60	0	0	0	0.52	1.14	571	1.05	617
70	0	0	0	0.52	1.28	508	1.19	545
80	0	0	0	0.52	1.41	460	1.33	490
90	0	0	0	0.52	1.49	436	1.45	448
100	0	0	0	0.52	1.57	415	1.57	415
110	0	0	0	0.52	1.64	397	1.64	397
120	0	0	0	0.52	1.71	381	1.71	381
130	0	0	0	0.52	1.77	367	1.77	367
167	0	0	0	0.52	2.01	324	2.01	324
212	0	0	0	0.52	2.27	287	2.27	287

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	3	1461	2.92	1500*
0	0	0	0	0.52	2.18	1193	2.08	1252
30	0	0	0	0.52	2.91	895	2.76	944
40	0	0	0	0.52	3.13	831	2.98	875
50	0	0	0	0.52	3.35	777	3.19	817
60	0	0	0	0.52	3.56	731	3.39	767
70	0	0	0	0.52	3.76	693	3.59	725
80	0	0	0	0.52	3.95	659	3.78	689
90	0	0	0	0.52	4.14	629	3.97	657
100	0	0	0	0.52	4.27	610	4.15	628
110	0	0	0	0.52	4.37	595	4.32	603
120	0	0	0	0.52	4.48	581	4.48	581
130	0	0	0	0.52	4.59	568	4.59	568
167	0	0	0	0.52	4.96	525	4.96	525
212	0	0	0	0.52	5.39	484	5.39	484

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	6.7	1473	6.58	1500*
0	0	0	0	0.52	5.8	1010	5.63	1041
30	0	0	0	0.52	6.6	889	6.4	916
40	0	0	0	0.52	6.85	856	6.64	883
50	0	0	0	0.52	7.09	827	6.88	852
60	0	0	0	0.52	7.32	801	7.11	825
70	0	0	0	0.52	7.55	776	7.34	799
80	0	0	0	0.52	7.78	754	7.56	776
90	0	0	0	0.52	8	733	7.78	754
100	0	0	0	0.52	8.21	714	7.99	734
110	0	0	0	0.52	8.35	703	8.2	716
120	0	0	0	0.52	8.48	692	8.4	699
130	0	0	0	0.52	8.61	682	8.6	683
167	0	0	0	0.52	9.08	647	9.08	647
212	0	0	0	0.52	9.62	611	9.62	611

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	11.86	1482	11.72	1500*
0	0	0	0	0.52	10.94	954	10.74	971
30	0	0	0	0.52	11.75	888	11.53	905
40	0	0	0	0.52	12.01	869	11.78	886
50	0	0	0	0.52	12.26	851	12.03	868
60	0	0	0	0.52	12.51	834	12.27	850
70	0	0	0	0.52	12.76	818	12.52	834
80	0	0	0	0.52	13	803	12.75	819
90	0	0	0	0.52	13.24	789	12.99	804
100	0	0	0	0.52	13.48	775	13.22	790
110	0	0	0	0.52	13.67	764	13.45	777
120	0	0	0	0.52	13.82	756	13.67	764
130	0	0	0	0.52	13.96	749	13.89	752
167	0	0	0	0.52	14.49	722	14.49	722
212	0	0	0	0.52	15.11	692	15.11	692

* Design Condition

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SHEET 170 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.170

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	18.5	1487	18.34	1500*
0	0	0	0	0.52	17.57	930	17.36	941
30	0	0	0	0.52	18.38	889	18.15	900
40	0	0	0	0.52	18.65	876	18.41	888
50	0	0	0	0.52	18.91	864	18.66	876
60	0	0	0	0.52	19.17	853	18.92	864
70	0	0	0	0.52	19.43	842	19.17	853
80	0	0	0	0.52	19.68	831	19.41	842
90	0	0	0	0.52	19.93	821	19.66	832
100	0	0	0	0.52	20.18	811	19.9	822
110	0	0	0	0.52	20.41	801	20.14	812
120	0	0	0	0.52	20.57	795	20.38	803
130	0	0	0	0.52	20.72	790	20.61	794
167	0	0	0	0.52	21.29	769	21.29	769
212	0	0	0	0.52	21.96	746	21.96	746

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11
100.00	0-6	0-8	0-9	0-11	1-1	1-2	1-4	1-5	1-7	1-8
125.00	0-10	1-0	1-2	1-5	1-8	1-10	2-1	2-3	2-5	2-7
150.00	1-2	1-5	1-9	2-1	2-4	2-8	3-0	3-3	3-6	3-8
175.00	1-7	1-11	2-4	2-9	3-3	3-8	4-1	4-5	4-10	5-0
200.00	2-1	2-6	3-1	3-8	4-3	4-9	5-4	5-10	6-3	6-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	0-11
100.00	0-6	0-8	0-10	1-0	1-2	1-3	1-5	1-6	1-7	1-8
125.00	0-10	1-1	1-4	1-7	1-9	2-0	2-3	2-4	2-5	2-7
150.00	1-3	1-6	1-10	2-3	2-7	2-11	3-2	3-4	3-6	3-8
175.00	1-8	2-1	2-7	3-0	3-6	3-11	4-4	4-7	4-10	5-0
200.00	2-2	2-9	3-4	4-0	4-7	5-2	5-8	6-0	6-3	6-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 172 OF 360

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.172

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1
125.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8
150.00	1-5	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-4	2-5
175.00	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-2	3-4
200.00	2-6	2-9	3-0	3-2	3-5	3-7	3-9	4-0	4-2	4-4
225.00	3-2	3-6	3-9	4-0	4-4	4-7	4-9	5-0	5-3	5-6
250.00	3-11	4-4	4-8	5-0	5-4	5-7	5-11	6-2	6-6	6-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1
125.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-8
150.00	1-6	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-6
175.00	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-2	3-3	3-4
200.00	2-8	2-11	3-2	3-4	3-7	3-9	3-11	4-2	4-3	4-4
225.00	3-5	3-8	4-0	4-3	4-6	4-9	5-0	5-3	5-5	5-6
250.00	4-2	4-7	4-11	5-3	5-7	5-11	6-2	6-6	6-8	6-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.173

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-1
175.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-9
200.00	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-5	3-7	3-8
225.00	3-5	3-7	3-9	3-10	4-0	4-2	4-3	4-4	4-6	4-7
250.00	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-8
275.00	5-2	5-4	5-7	5-9	6-0	6-2	6-4	6-6	6-9	6-11
300.00	6-2	6-5	6-8	6-11	7-1	7-4	7-7	7-9	8-0	8-2
325.00	7-3	7-6	7-10	8-1	8-4	8-7	8-10	9-2	9-5	9-7
350.00	8-4	8-9	9-0	9-4	9-8	10-0	10-4	10-7	10-11	11-2
375.00	9-7	10-0	10-5	10-9	11-1	11-6	11-10	12-2	12-6	12-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-1	2-1
175.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-10
200.00	2-10	2-11	3-0	3-2	3-3	3-4	3-5	3-7	3-8	3-9
225.00	3-7	3-9	3-10	4-0	4-1	4-3	4-4	4-6	4-7	4-8
250.00	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-8	5-10
275.00	5-4	5-7	5-9	5-11	6-2	6-4	6-6	6-9	6-11	7-0
300.00	6-4	6-7	6-10	7-1	7-4	7-7	7-9	8-0	8-3	8-4
325.00	7-5	7-9	8-0	8-4	8-7	8-10	9-2	9-5	9-8	9-10
350.00	8-8	9-0	9-4	9-8	10-0	10-3	10-7	10-11	11-2	11-4
375.00	9-11	10-4	10-8	11-1	11-5	11-10	12-2	12-6	12-10	13-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.174

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-10	2-11	2-11	3-0	3-1	3-2	3-2	3-3	3-4	3-4
225.00	3-7	3-8	3-9	3-10	3-11	3-11	4-0	4-1	4-2	4-3
250.00	4-5	4-6	4-7	4-8	4-9	4-11	5-0	5-1	5-2	5-3
275.00	5-4	5-5	5-7	5-8	5-10	5-11	6-0	6-2	6-3	6-4
300.00	6-4	6-6	6-7	6-9	6-11	7-0	7-2	7-4	7-5	7-7
325.00	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-7	8-9	8-10
350.00	8-7	8-10	9-0	9-2	9-5	9-7	9-9	9-11	10-1	10-4
375.00	9-11	10-2	10-4	10-7	10-9	11-0	11-2	11-5	11-7	11-10
400.00	11-3	11-6	11-9	12-0	12-3	12-6	12-9	13-0	13-3	13-5
425.00	12-9	13-0	13-4	13-7	13-10	14-2	14-5	14-8	14-11	15-2
450.00	14-3	14-7	14-11	15-3	15-6	15-10	16-2	16-5	16-9	17-0
475.00	15-11	16-3	16-7	17-0	17-4	17-8	18-0	18-4	18-8	19-0
500.00	17-7	18-0	18-5	18-10	19-2	19-7	19-11	20-4	20-8	21-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-10	2-11	3-0	3-1	3-2	3-2	3-3	3-4	3-4	3-5
225.00	3-8	3-9	3-10	3-11	3-11	4-0	4-1	4-2	4-3	4-4
250.00	4-6	4-7	4-8	4-9	4-11	5-0	5-1	5-2	5-3	5-4
275.00	5-5	5-7	5-8	5-10	5-11	6-0	6-2	6-3	6-4	6-5
300.00	6-5	6-7	6-9	6-11	7-0	7-2	7-4	7-5	7-7	7-8
325.00	7-7	7-9	7-11	8-1	8-3	8-5	8-7	8-9	8-11	9-0
350.00	8-9	9-0	9-2	9-5	9-7	9-9	9-11	10-2	10-4	10-6
375.00	10-1	10-4	10-7	10-9	11-0	11-3	11-5	11-8	11-10	12-0
400.00	11-6	11-9	12-0	12-3	12-6	12-9	13-0	13-3	13-6	13-8
425.00	13-0	13-3	13-7	13-10	14-2	14-5	14-8	14-11	15-3	15-5
450.00	14-6	14-10	15-2	15-6	15-10	16-2	16-6	16-9	17-1	17-4
475.00	16-2	16-7	16-11	17-4	17-8	18-0	18-4	18-8	19-0	19-3
500.00	17-11	18-4	18-9	19-2	19-7	19-11	20-4	20-8	21-1	21-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.175

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-6	4-6	4-7	4-8	4-9	4-9	4-10	4-11	5-0	5-0
275.00	5-5	5-6	5-7	5-8	5-9	5-9	5-10	5-11	6-0	6-1
300.00	6-5	6-6	6-7	6-9	6-10	6-11	7-0	7-1	7-2	7-3
325.00	7-7	7-8	7-9	7-11	8-0	8-1	8-2	8-4	8-5	8-6
350.00	8-9	8-11	9-0	9-2	9-3	9-5	9-6	9-7	9-9	9-10
375.00	10-1	10-2	10-4	10-6	10-8	10-9	10-11	11-1	11-2	11-4
400.00	11-5	11-7	11-9	11-11	12-1	12-3	12-5	12-7	12-9	12-11
425.00	12-11	13-1	13-4	13-6	13-8	13-10	14-0	14-2	14-4	14-7
450.00	14-6	14-8	14-11	15-1	15-4	15-6	15-9	15-11	16-1	16-4
475.00	16-2	16-5	16-7	16-10	17-1	17-4	17-6	17-9	17-11	18-2
500.00	17-11	18-2	18-5	18-8	18-11	19-2	19-5	19-8	19-11	20-2
525.00	19-9	20-0	20-4	20-7	20-10	21-2	21-5	21-8	21-11	22-3
550.00	21-8	22-0	22-3	22-7	22-11	23-2	23-6	23-10	24-1	24-5
575.00	23-8	24-0	24-4	24-8	25-0	25-4	25-8	26-0	26-4	26-8
600.00	25-9	26-2	26-6	26-11	27-3	27-7	28-0	28-4	28-8	29-0
625.00	28-0	28-5	28-9	29-2	29-7	30-0	30-4	30-9	31-2	31-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-6	4-7	4-8	4-9	4-9	4-10	4-11	5-0	5-0	5-1
275.00	5-6	5-7	5-8	5-9	5-9	5-10	5-11	6-0	6-1	6-2
300.00	6-6	6-7	6-8	6-10	6-11	7-0	7-1	7-2	7-3	7-4
325.00	7-8	7-9	7-10	8-0	8-1	8-2	8-4	8-5	8-6	8-7
350.00	8-10	9-0	9-2	9-3	9-5	9-6	9-8	9-9	9-10	10-0
375.00	10-2	10-4	10-6	10-8	10-9	10-11	11-1	11-2	11-4	11-6
400.00	11-7	11-9	11-11	12-1	12-3	12-5	12-7	12-9	12-11	13-1
425.00	13-1	13-3	13-6	13-8	13-10	14-0	14-3	14-5	14-7	14-9
450.00	14-8	14-11	15-1	15-4	15-6	15-9	15-11	16-2	16-4	16-6
475.00	16-4	16-7	16-10	17-1	17-4	17-6	17-9	18-0	18-2	18-5
500.00	18-1	18-5	18-8	18-11	19-2	19-5	19-8	19-11	20-2	20-5
525.00	20-0	20-3	20-7	20-10	21-2	21-5	21-8	22-0	22-3	22-6
550.00	21-11	22-3	22-7	22-11	23-2	23-6	23-10	24-1	24-5	24-9
575.00	24-0	24-4	24-8	25-0	25-4	25-8	26-1	26-4	26-8	27-0
600.00	26-1	26-6	26-11	27-3	27-8	28-0	28-4	28-9	29-1	29-5
625.00	28-4	28-9	29-2	29-7	30-0	30-5	30-9	31-2	31-7	31-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.176

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.876	0.56	1949	0.55	2000*
0	0	0	0	0.52	0.26	2459	0.26	2459
30	0	0	0	0.52	0.46	1417	0.42	1554
40	0	0	0	0.52	0.58	1125	0.51	1282
50	0	0	0	0.52	0.72	900	0.62	1047
60	0	0	0	0.52	0.88	740	0.76	861
70	0	0	0	0.52	1.03	629	0.9	722
80	0	0	0	0.52	1.18	550	1.05	622
90	0	0	0	0.52	1.27	512	1.19	548
100	0	0	0	0.52	1.35	483	1.32	493
110	0	0	0	0.52	1.42	457	1.42	457
120	0	0	0	0.52	1.5	435	1.5	435
130	0	0	0	0.52	1.57	415	1.57	415
167	0	0	0	0.52	1.82	358	1.82	358
212	0	0	0	0.52	2.1	310	2.1	310

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.876	2.29	1912	2.19	2000*
0	0	0	0	0.52	1.38	1882	1.3	1996
30	0	0	0	0.52	2.08	1250	1.88	1384
40	0	0	0	0.52	2.33	1116	2.1	1237
50	0	0	0	0.52	2.58	1010	2.33	1115
60	0	0	0	0.52	2.81	925	2.56	1016
70	0	0	0	0.52	3.04	855	2.79	934
80	0	0	0	0.52	3.27	797	3.01	866
90	0	0	0	0.52	3.48	749	3.22	809
100	0	0	0	0.52	3.64	715	3.42	761
110	0	0	0	0.52	3.76	693	3.62	719
120	0	0	0	0.52	3.87	672	3.81	683
130	0	0	0	0.52	3.99	653	3.99	653
167	0	0	0	0.52	4.39	593	4.39	593
212	0	0	0	0.52	4.85	537	4.85	537

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	5.11	1929	4.93	2000*
0	0	0	0	0.52	3.9	1502	3.64	1606
30	0	0	0	0.52	4.85	1207	4.53	1292
40	0	0	0	0.52	5.15	1136	4.82	1214
50	0	0	0	0.52	5.45	1075	5.11	1147
60	0	0	0	0.52	5.73	1022	5.39	1088
70	0	0	0	0.52	6.01	976	5.66	1036
80	0	0	0	0.52	6.27	934	5.92	989
90	0	0	0	0.52	6.53	897	6.18	948
100	0	0	0	0.52	6.78	864	6.43	911
110	0	0	0	0.52	6.99	839	6.68	878
120	0	0	0	0.52	7.13	822	6.91	848
130	0	0	0	0.52	7.27	806	7.15	820
167	0	0	0	0.52	7.79	753	7.79	753
212	0	0	0	0.52	8.39	700	8.39	700

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	9.01	1947	8.77	2000*
0	0	0	0	0.52	7.69	1354	7.34	1418
30	0	0	0	0.52	8.73	1194	8.34	1250
40	0	0	0	0.52	9.05	1151	8.65	1204
50	0	0	0	0.52	9.37	1112	8.97	1162
60	0	0	0	0.52	9.68	1077	9.27	1124
70	0	0	0	0.52	9.98	1044	9.57	1089
80	0	0	0	0.52	10.28	1014	9.86	1057
90	0	0	0	0.52	10.57	987	10.15	1027
100	0	0	0	0.52	10.85	961	10.43	1000
110	0	0	0	0.52	11.13	937	10.71	974
120	0	0	0	0.52	11.33	921	10.98	950
130	0	0	0	0.52	11.5	908	11.25	928
167	0	0	0	0.52	12.1	863	12.09	863
212	0	0	0	0.52	12.8	816	12.8	816

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.178

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Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	14	1961	13.73	2000*
0	0	0	0	0.52	12.64	1289	12.24	1331
30	0	0	0	0.52	13.7	1190	13.27	1228
40	0	0	0	0.52	14.04	1161	13.6	1198
50	0	0	0	0.52	14.37	1135	13.93	1170
60	0	0	0	0.52	14.7	1109	14.25	1144
70	0	0	0	0.52	15.02	1086	14.56	1120
80	0	0	0	0.52	15.33	1064	14.87	1096
90	0	0	0	0.52	15.64	1043	15.18	1074
100	0	0	0	0.52	15.95	1023	15.48	1054
110	0	0	0	0.52	16.25	1004	15.78	1034
120	0	0	0	0.52	16.53	988	16.07	1015
130	0	0	0	0.52	16.71	977	16.36	998
167	0	0	0	0.52	17.37	940	17.37	940
212	0	0	0	0.52	18.16	900	18.15	900

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.179

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10
100.00	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-4	1-5
125.00	0-7	0-8	0-10	1-0	1-2	1-5	1-8	1-10	2-1	2-3
150.00	0-9	0-11	1-2	1-5	1-8	2-0	2-4	2-8	3-0	3-2
175.00	1-1	1-3	1-7	1-11	2-4	2-9	3-2	3-8	4-1	4-4
200.00	1-5	1-8	2-0	2-6	3-0	3-7	4-2	4-9	5-3	5-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9	0-10
100.00	0-4	0-6	0-7	0-9	0-11	1-0	1-2	1-3	1-4	1-5
125.00	0-7	0-9	0-11	1-2	1-4	1-7	1-10	2-0	2-1	2-3
150.00	0-10	1-0	1-4	1-8	2-0	2-4	2-8	2-10	3-0	3-2
175.00	1-2	1-5	1-9	2-3	2-8	3-2	3-7	3-11	4-1	4-4
200.00	1-6	1-10	2-4	2-11	3-6	4-2	4-9	5-1	5-5	5-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.180

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11
125.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
150.00	0-11	1-1	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-0
175.00	1-3	1-5	1-7	1-9	2-0	2-2	2-4	2-6	2-7	2-9
200.00	1-8	1-11	2-1	2-4	2-7	2-9	3-0	3-3	3-5	3-7
225.00	2-1	2-5	2-8	2-11	3-3	3-6	3-10	4-1	4-4	4-7
250.00	2-7	2-11	3-3	3-8	4-0	4-4	4-8	5-0	5-4	5-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11
125.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
150.00	1-0	1-2	1-4	1-5	1-7	1-9	1-10	1-11	2-1	2-1
175.00	1-5	1-7	1-9	2-0	2-2	2-4	2-6	2-8	2-9	2-11
200.00	1-10	2-1	2-4	2-7	2-10	3-1	3-3	3-6	3-8	3-9
225.00	2-4	2-8	2-11	3-3	3-7	3-10	4-2	4-5	4-7	4-9
250.00	2-10	3-3	3-8	4-0	4-5	4-9	5-1	5-5	5-8	5-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8
175.00	1-5	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3
200.00	1-11	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-10	3-0
225.00	2-5	2-7	2-9	2-10	3-0	3-2	3-4	3-6	3-7	3-9
250.00	2-11	3-2	3-4	3-7	3-9	3-11	4-1	4-3	4-6	4-8
275.00	3-7	3-10	4-1	4-3	4-6	4-9	5-0	5-2	5-5	5-7
300.00	4-3	4-6	4-10	5-1	5-5	5-8	5-11	6-2	6-5	6-8
325.00	5-0	5-4	5-8	6-0	6-4	6-8	6-11	7-3	7-7	7-10
350.00	5-9	6-2	6-7	6-11	7-4	7-8	8-1	8-5	8-9	9-1
375.00	6-7	7-1	7-6	8-0	8-5	8-10	9-3	9-8	10-1	10-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-8	1-9
175.00	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5
200.00	2-0	2-2	2-3	2-5	2-7	2-8	2-9	2-11	3-0	3-1
225.00	2-7	2-9	2-11	3-1	3-3	3-5	3-6	3-8	3-10	3-11
250.00	3-2	3-4	3-7	3-9	4-0	4-2	4-4	4-6	4-9	4-10
275.00	3-10	4-1	4-4	4-7	4-10	5-1	5-3	5-6	5-8	5-10
300.00	4-6	4-10	5-2	5-5	5-9	6-0	6-3	6-6	6-9	7-0
325.00	5-4	5-8	6-1	6-5	6-9	7-1	7-4	7-8	8-0	8-2
350.00	6-2	6-7	7-0	7-5	7-10	8-2	8-6	8-11	9-3	9-6
375.00	7-1	7-7	8-1	8-6	8-11	9-5	9-10	10-3	10-7	10-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.182

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-6	2-7	2-8
225.00	2-6	2-8	2-9	2-10	2-11	3-0	3-1	3-3	3-4	3-5
250.00	3-2	3-3	3-5	3-6	3-7	3-9	3-10	4-0	4-1	4-2
275.00	3-9	3-11	4-1	4-3	4-5	4-6	4-8	4-10	4-11	5-1
300.00	4-6	4-8	4-10	5-1	5-3	5-5	5-7	5-8	5-10	6-0
325.00	5-3	5-6	5-9	5-11	6-1	6-4	6-6	6-8	6-11	7-1
350.00	6-2	6-5	6-8	6-10	7-1	7-4	7-7	7-9	8-0	8-2
375.00	7-0	7-4	7-7	7-11	8-2	8-5	8-8	8-11	9-2	9-5
400.00	8-0	8-4	8-8	9-0	9-3	9-7	9-10	10-2	10-5	10-9
425.00	9-1	9-5	9-9	10-1	10-6	10-10	11-2	11-6	11-9	12-1
450.00	10-2	10-7	10-11	11-4	11-9	12-1	12-6	12-10	13-2	13-7
475.00	11-4	11-9	12-2	12-8	13-1	13-6	13-11	14-4	14-9	15-1
500.00	12-6	13-0	13-6	14-0	14-6	15-0	15-5	15-10	16-4	16-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-9
225.00	2-8	2-9	2-10	3-0	3-1	3-2	3-3	3-4	3-5	3-6
250.00	3-3	3-5	3-6	3-8	3-9	3-11	4-0	4-2	4-3	4-4
275.00	4-0	4-1	4-3	4-5	4-7	4-9	4-10	5-0	5-2	5-3
300.00	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3
325.00	5-6	5-9	6-0	6-2	6-5	6-7	6-9	7-0	7-2	7-4
350.00	6-5	6-8	6-11	7-2	7-5	7-8	7-10	8-1	8-4	8-6
375.00	7-4	7-8	7-11	8-3	8-6	8-9	9-0	9-3	9-6	9-9
400.00	8-5	8-9	9-1	9-4	9-8	10-0	10-3	10-7	10-10	11-2
425.00	9-6	9-10	10-3	10-7	10-11	11-3	11-7	11-11	12-3	12-7
450.00	10-7	11-1	11-5	11-10	12-3	12-8	13-0	13-5	13-9	14-1
475.00	11-10	12-4	12-9	13-3	13-8	14-1	14-6	14-11	15-4	15-8
500.00	13-1	13-8	14-2	14-8	15-2	15-7	16-1	16-6	17-0	17-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.183

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-9	3-10	3-11
275.00	3-11	4-0	4-1	4-3	4-4	4-5	4-6	4-7	4-8	4-9
300.00	4-8	4-9	4-11	5-0	5-2	5-3	5-4	5-6	5-7	5-8
325.00	5-6	5-7	5-9	5-11	6-0	6-2	6-3	6-5	6-6	6-8
350.00	6-4	6-6	6-8	6-10	7-0	7-2	7-3	7-5	7-7	7-9
375.00	7-3	7-6	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-10
400.00	8-3	8-6	8-8	8-11	9-1	9-4	9-6	9-9	9-11	10-1
425.00	9-4	9-7	9-10	10-1	10-3	10-6	10-9	11-0	11-2	11-5
450.00	10-6	10-9	11-0	11-3	11-6	11-10	12-1	12-4	12-6	12-9
475.00	11-8	12-0	12-3	12-7	12-10	13-2	13-5	13-8	14-0	14-3
500.00	12-11	13-3	13-7	13-11	14-3	14-7	14-10	15-2	15-6	15-9
525.00	14-3	14-8	15-0	15-4	15-9	16-1	16-5	16-9	17-1	17-5
550.00	15-8	16-1	16-6	16-10	17-3	17-8	18-0	18-4	18-9	19-1
575.00	17-1	17-7	18-0	18-5	18-10	19-3	19-8	20-1	20-6	20-11
600.00	18-8	19-1	19-7	20-1	20-6	21-0	21-5	21-10	22-4	22-9
625.00	20-3	20-9	21-3	21-9	22-3	22-9	23-3	23-9	24-2	24-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1
275.00	4-0	4-2	4-3	4-4	4-5	4-6	4-8	4-9	4-10	4-11
300.00	4-10	4-11	5-1	5-2	5-3	5-5	5-6	5-8	5-9	5-10
325.00	5-8	5-9	5-11	6-1	6-2	6-4	6-6	6-7	6-9	6-10
350.00	6-6	6-8	6-10	7-0	7-2	7-4	7-6	7-8	7-10	7-11
375.00	7-6	7-8	7-11	8-1	8-3	8-5	8-7	8-10	9-0	9-2
400.00	8-6	8-9	9-0	9-2	9-5	9-7	9-10	10-0	10-2	10-5
425.00	9-8	9-11	10-2	10-5	10-7	10-10	11-1	11-4	11-6	11-9
450.00	10-10	11-1	11-4	11-8	11-11	12-2	12-5	12-8	12-11	13-2
475.00	12-1	12-4	12-8	13-0	13-3	13-7	13-10	14-1	14-5	14-8
500.00	13-4	13-8	14-0	14-4	14-8	15-0	15-4	15-8	15-11	16-3
525.00	14-9	15-1	15-6	15-10	16-2	16-7	16-11	17-3	17-7	17-11
550.00	16-2	16-7	17-0	17-5	17-9	18-2	18-7	18-11	19-4	19-8
575.00	17-8	18-1	18-7	19-0	19-5	19-10	20-3	20-8	21-1	21-6
600.00	19-3	19-9	20-3	20-8	21-2	21-8	22-1	22-6	23-0	23-5
625.00	20-10	21-5	21-11	22-6	23-0	23-6	24-0	24-6	24-11	25-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.184

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.876	0.46	2395	0.44	2500*
0	0	0	0	0.52	0.22	3015	0.22	3015
30	0	0	0	0.52	0.35	1880	0.31	2091
40	0	0	0	0.52	0.43	1524	0.36	1787
50	0	0	0	0.52	0.54	1213	0.43	1495
60	0	0	0	0.52	0.67	965	0.53	1228
70	0	0	0	0.52	0.83	786	0.65	1002
80	0	0	0	0.52	0.98	661	0.79	826
90	0	0	0	0.52	1.08	603	0.93	697
100	0	0	0	0.52	1.15	564	1.08	603
110	0	0	0	0.52	1.23	529	1.22	534
120	0	0	0	0.52	1.31	498	1.31	498
130	0	0	0	0.52	1.38	471	1.38	471
167	0	0	0	0.52	1.65	395	1.65	395
212	0	0	0	0.52	1.94	335	1.94	335

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.876	1.87	2347	1.75	2500*
0	0	0	0	0.52	1.02	2550	0.97	2694
30	0	0	0	0.52	1.57	1658	1.36	1910
40	0	0	0	0.52	1.8	1443	1.54	1687
50	0	0	0	0.52	2.05	1269	1.74	1491
60	0	0	0	0.52	2.3	1132	1.96	1325
70	0	0	0	0.52	2.55	1022	2.19	1187
80	0	0	0	0.52	2.79	934	2.42	1074
90	0	0	0	0.52	3.02	863	2.65	982
100	0	0	0	0.52	3.2	813	2.87	905
110	0	0	0	0.52	3.32	784	3.09	842
120	0	0	0	0.52	3.44	757	3.3	788
130	0	0	0	0.52	3.56	732	3.5	743
167	0	0	0	0.52	3.98	654	3.98	654
212	0	0	0	0.52	4.47	583	4.47	583

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.185

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	4.17	2362	3.94	2500*
0	0	0	0	0.52	2.8	2091	2.55	2298
30	0	0	0	0.52	3.76	1557	3.34	1751
40	0	0	0	0.52	4.09	1433	3.63	1610
50	0	0	0	0.52	4.41	1329	3.93	1488
60	0	0	0	0.52	4.72	1240	4.23	1383
70	0	0	0	0.52	5.03	1165	4.53	1293
80	0	0	0	0.52	5.32	1100	4.82	1215
90	0	0	0	0.52	5.61	1044	5.11	1147
100	0	0	0	0.52	5.89	995	5.39	1087
110	0	0	0	0.52	6.13	956	5.66	1035
120	0	0	0	0.52	6.28	933	5.93	989
130	0	0	0	0.52	6.44	911	6.18	947
167	0	0	0	0.52	6.98	840	6.97	841
212	0	0	0	0.52	7.62	770	7.61	771

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	7.34	2389	7.01	2500*
0	0	0	0	0.52	5.69	1829	5.23	1991
30	0	0	0	0.52	6.86	1519	6.3	1654
40	0	0	0	0.52	7.23	1440	6.65	1565
50	0	0	0	0.52	7.59	1371	7	1487
60	0	0	0	0.52	7.95	1310	7.35	1417
70	0	0	0	0.52	8.3	1256	7.69	1355
80	0	0	0	0.52	8.63	1207	8.02	1298
90	0	0	0	0.52	8.96	1163	8.35	1248
100	0	0	0	0.52	9.28	1123	8.67	1202
110	0	0	0	0.52	9.6	1086	8.98	1160
120	0	0	0	0.52	9.86	1058	9.29	1122
130	0	0	0	0.52	10.03	1039	9.59	1087
167	0	0	0	0.52	10.68	977	10.65	979
212	0	0	0	0.52	11.44	912	11.43	913

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.186

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	11.37	2413	10.97	2500*
0	0	0	0	0.52	9.58	1698	8.99	1810
30	0	0	0	0.52	10.84	1502	10.19	1598
40	0	0	0	0.52	11.24	1449	10.57	1540
50	0	0	0	0.52	11.63	1401	10.95	1486
60	0	0	0	0.52	12.01	1356	11.33	1437
70	0	0	0	0.52	12.38	1315	11.7	1392
80	0	0	0	0.52	12.75	1278	12.06	1351
90	0	0	0	0.52	13.11	1243	12.42	1312
100	0	0	0	0.52	13.46	1211	12.77	1276
110	0	0	0	0.52	13.8	1181	13.11	1243
120	0	0	0	0.52	14.14	1153	13.45	1212
130	0	0	0	0.52	14.39	1133	13.78	1183
167	0	0	0	0.52	15.12	1079	14.96	1090
212	0	0	0	0.52	15.98	1021	15.96	1023

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.187

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-4	0-4	0-5	0-6	0-7	0-8
100.00	0-3	0-4	0-4	0-5	0-6	0-8	0-9	0-11	1-1	1-3
125.00	0-5	0-6	0-7	0-8	0-10	1-0	1-3	1-6	1-8	1-11
150.00	0-7	0-8	0-10	1-0	1-2	1-6	1-9	2-1	2-5	2-9
175.00	0-10	0-11	1-1	1-4	1-7	2-0	2-5	2-10	3-4	3-9
200.00	1-1	1-3	1-5	1-9	2-1	2-7	3-2	3-9	4-4	4-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-4	0-5	0-6	0-7	0-7	0-8	0-8
100.00	0-3	0-4	0-5	0-6	0-8	0-10	1-0	1-1	1-2	1-3
125.00	0-5	0-6	0-8	0-10	1-1	1-4	1-6	1-8	1-10	1-11
150.00	0-8	0-9	1-0	1-2	1-6	1-10	2-3	2-5	2-7	2-9
175.00	0-11	1-1	1-4	1-8	2-1	2-6	3-0	3-4	3-6	3-9
200.00	1-2	1-5	1-8	2-2	2-8	3-4	3-11	4-4	4-7	4-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.188

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-9
125.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
150.00	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-6	1-7	1-9
175.00	0-11	1-1	1-2	1-4	1-6	1-8	1-10	2-0	2-2	2-4
200.00	1-2	1-4	1-7	1-9	2-0	2-2	2-5	2-8	2-10	3-1
225.00	1-6	1-9	1-11	2-2	2-6	2-9	3-1	3-4	3-8	3-11
250.00	1-11	2-2	2-5	2-9	3-1	3-5	3-9	4-2	4-6	4-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10
125.00	0-6	0-7	0-8	0-10	0-11	1-0	1-1	1-2	1-3	1-4
150.00	0-9	0-11	1-0	1-2	1-4	1-5	1-7	1-8	1-10	1-10
175.00	1-0	1-2	1-5	1-7	1-9	1-11	2-2	2-4	2-5	2-7
200.00	1-4	1-7	1-10	2-1	2-4	2-7	2-9	3-0	3-2	3-4
225.00	1-9	2-0	2-3	2-7	2-11	3-3	3-6	3-10	4-1	4-2
250.00	2-1	2-5	2-10	3-2	3-7	4-0	4-4	4-9	5-0	5-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.189

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-5
175.00	1-0	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11
200.00	1-4	1-6	1-7	1-9	1-11	2-0	2-2	2-3	2-5	2-6
225.00	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-10	3-0	3-2
250.00	2-1	2-4	2-6	2-9	2-11	3-2	3-4	3-7	3-9	3-11
275.00	2-7	2-10	3-1	3-4	3-7	3-10	4-1	4-3	4-6	4-9
300.00	3-1	3-4	3-8	3-11	4-3	4-6	4-10	5-1	5-5	5-8
325.00	3-7	3-11	4-3	4-7	5-0	5-4	5-8	6-0	6-4	6-8
350.00	4-2	4-7	4-11	5-4	5-9	6-2	6-7	6-11	7-4	7-8
375.00	4-9	5-3	5-8	6-2	6-7	7-1	7-6	8-0	8-5	8-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-6
175.00	1-2	1-3	1-5	1-6	1-7	1-9	1-10	1-11	2-0	2-1
200.00	1-6	1-8	1-10	1-11	2-1	2-3	2-4	2-6	2-7	2-9
225.00	1-11	2-1	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-5
250.00	2-5	2-7	2-10	3-1	3-3	3-6	3-8	3-11	4-1	4-3
275.00	2-11	3-2	3-5	3-8	4-0	4-3	4-6	4-9	4-11	5-2
300.00	3-5	3-9	4-1	4-5	4-9	5-0	5-4	5-7	5-11	6-2
325.00	4-0	4-5	4-10	5-2	5-6	5-11	6-3	6-7	6-11	7-2
350.00	4-8	5-1	5-7	6-0	6-5	6-10	7-3	7-8	8-0	8-4
375.00	5-4	5-10	6-5	6-11	7-5	7-10	8-4	8-9	9-2	9-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.190

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3
225.00	1-11	2-0	2-1	2-3	2-4	2-5	2-6	2-8	2-9	2-10
250.00	2-4	2-6	2-7	2-9	2-10	3-0	3-2	3-3	3-5	3-6
275.00	2-10	3-0	3-2	3-4	3-6	3-8	3-9	3-11	4-1	4-3
300.00	3-4	3-6	3-9	3-11	4-2	4-4	4-6	4-8	4-11	5-1
325.00	3-11	4-2	4-5	4-7	4-10	5-1	5-4	5-6	5-9	5-11
350.00	4-7	4-10	5-1	5-4	5-8	5-11	6-2	6-5	6-8	6-11
375.00	5-3	5-6	5-10	6-2	6-6	6-9	7-1	7-4	7-7	7-11
400.00	5-11	6-4	6-8	7-0	7-4	7-8	8-0	8-4	8-8	9-0
425.00	6-8	7-1	7-6	7-11	8-4	8-8	9-1	9-5	9-9	10-2
450.00	7-6	8-0	8-5	8-10	9-4	9-9	10-2	10-7	11-0	11-4
475.00	8-4	8-11	9-5	9-11	10-4	10-10	11-4	11-9	12-3	12-8
500.00	9-3	9-10	10-5	10-11	11-6	12-0	12-6	13-1	13-7	14-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-7	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
225.00	2-1	2-2	2-3	2-5	2-6	2-7	2-9	2-10	2-11	3-0
250.00	2-6	2-8	2-10	3-0	3-1	3-3	3-4	3-6	3-7	3-9
275.00	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-6
300.00	3-8	3-10	4-1	4-3	4-6	4-8	4-10	5-0	5-3	5-5
325.00	4-3	4-6	4-9	5-0	5-3	5-6	5-8	5-11	6-2	6-4
350.00	4-11	5-3	5-6	5-10	6-1	6-4	6-7	6-10	7-1	7-4
375.00	5-8	6-0	6-4	6-8	7-0	7-3	7-7	7-11	8-2	8-5
400.00	6-6	6-10	7-3	7-7	7-11	8-4	8-8	9-0	9-3	9-7
425.00	7-4	7-9	8-2	8-7	9-0	9-4	9-9	10-1	10-6	10-10
450.00	8-2	8-8	9-2	9-7	10-1	10-6	10-11	11-4	11-9	12-2
475.00	9-2	9-8	10-2	10-9	11-3	11-8	12-2	12-8	13-1	13-6
500.00	10-1	10-9	11-4	11-10	12-5	13-0	13-6	14-0	14-6	15-0

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STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.191

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-5	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3
275.00	3-0	3-1	3-2	3-4	3-5	3-6	3-8	3-9	3-10	4-0
300.00	3-6	3-8	3-10	3-11	4-1	4-3	4-4	4-6	4-7	4-9
325.00	4-2	4-4	4-6	4-8	4-9	4-11	5-1	5-3	5-5	5-6
350.00	4-10	5-0	5-2	5-4	5-7	5-9	5-11	6-1	6-3	6-5
375.00	5-6	5-9	5-11	6-2	6-4	6-7	6-9	7-0	7-2	7-4
400.00	6-3	6-6	6-9	7-0	7-3	7-6	7-9	7-11	8-2	8-5
425.00	7-1	7-4	7-8	7-11	8-2	8-5	8-9	9-0	9-3	9-6
450.00	7-11	8-3	8-7	8-10	9-2	9-6	9-9	10-1	10-4	10-7
475.00	8-10	9-2	9-7	9-11	10-3	10-7	10-11	11-2	11-6	11-10
500.00	9-9	10-2	10-7	10-11	11-4	11-8	12-1	12-5	12-9	13-1
525.00	10-10	11-3	11-8	12-1	12-6	12-11	13-4	13-8	14-1	14-5
550.00	11-10	12-4	12-10	13-3	13-9	14-2	14-7	15-0	15-5	15-10
575.00	12-11	13-6	14-0	14-6	15-0	15-6	15-11	16-5	16-11	17-4
600.00	14-1	14-8	15-3	15-9	16-4	16-10	17-4	17-11	18-5	18-11
625.00	15-4	15-11	16-6	17-1	17-9	18-3	18-10	19-5	19-11	20-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-7	2-8	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5
275.00	3-2	3-3	3-5	3-6	3-8	3-9	3-10	4-0	4-1	4-2
300.00	3-9	3-11	4-1	4-2	4-4	4-5	4-7	4-9	4-10	5-0
325.00	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-6	5-8	5-10
350.00	5-1	5-4	5-6	5-8	5-11	6-1	6-3	6-5	6-7	6-9
375.00	5-10	6-1	6-4	6-6	6-9	7-0	7-2	7-4	7-7	7-9
400.00	6-8	6-11	7-2	7-5	7-8	7-11	8-2	8-5	8-7	8-10
425.00	7-6	7-10	8-1	8-5	8-8	8-11	9-3	9-6	9-9	10-0
450.00	8-5	8-9	9-1	9-5	9-9	10-0	10-4	10-7	10-11	11-2
475.00	9-5	9-9	10-2	10-6	10-10	11-2	11-6	11-10	12-2	12-5
500.00	10-5	10-10	11-3	11-8	12-0	12-5	12-9	13-1	13-6	13-10
525.00	11-6	11-11	12-5	12-10	13-3	13-8	14-1	14-5	14-10	15-3
550.00	12-7	13-1	13-7	14-1	14-6	15-0	15-5	15-10	16-3	16-8
575.00	13-10	14-4	14-10	15-5	15-11	16-5	16-10	17-4	17-10	18-3
600.00	15-0	15-7	16-2	16-9	17-4	17-10	18-4	18-11	19-5	19-11
625.00	16-4	16-11	17-7	18-2	18-9	19-4	19-11	20-6	21-1	21-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.192

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	0.39	2795	0.36	3000*
0	0	0	0	0.52	0.19	3513	0.18	3536
30	0	0	0	0.52	0.28	2297	0.25	2622
40	0	0	0	0.52	0.34	1913	0.28	2311
50	0	0	0	0.52	0.42	1554	0.32	2001
60	0	0	0	0.52	0.53	1238	0.38	1697
70	0	0	0	0.52	0.66	984	0.46	1410
80	0	0	0	0.52	0.81	799	0.56	1153
90	0	0	0	0.52	0.91	718	0.69	941
100	0	0	0	0.52	0.98	666	0.83	780
110	0	0	0	0.52	1.05	620	0.98	663
120	0	0	0	0.52	1.12	578	1.12	580
130	0	0	0	0.52	1.2	542	1.2	543
167	0	0	0	0.52	1.47	441	1.47	441
212	0	0	0	0.52	1.79	364	1.79	364

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	1.59	2762	1.46	3000*
0	0	0	0	0.52	0.83	3128	0.78	3312
30	0	0	0	0.52	1.25	2089	1.05	2467
40	0	0	0	0.52	1.44	1805	1.18	2200
50	0	0	0	0.52	1.66	1564	1.33	1948
60	0	0	0	0.52	1.9	1366	1.51	1720
70	0	0	0	0.52	2.15	1209	1.71	1518
80	0	0	0	0.52	2.4	1083	1.93	1347
90	0	0	0	0.52	2.65	984	2.16	1205
100	0	0	0	0.52	2.84	916	2.39	1088
110	0	0	0	0.52	2.96	879	2.62	993
120	0	0	0	0.52	3.08	845	2.85	915
130	0	0	0	0.52	3.2	813	3.06	849
167	0	0	0	0.52	3.64	716	3.63	718
212	0	0	0	0.52	4.14	629	4.14	630

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.193

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	3.55	2778	3.29	3000*
0	0	0	0	0.52	2.16	2703	1.96	2992
30	0	0	0	0.52	3.01	1946	2.56	2284
40	0	0	0	0.52	3.33	1759	2.81	2081
50	0	0	0	0.52	3.65	1602	3.08	1899
60	0	0	0	0.52	3.98	1471	3.37	1738
70	0	0	0	0.52	4.3	1360	3.66	1598
80	0	0	0	0.52	4.62	1267	3.96	1478
90	0	0	0	0.52	4.93	1188	4.26	1374
100	0	0	0	0.52	5.23	1120	4.56	1284
110	0	0	0	0.52	5.5	1066	4.85	1207
120	0	0	0	0.52	5.65	1037	5.14	1140
130	0	0	0	0.52	5.81	1009	5.42	1081
167	0	0	0	0.52	6.37	919	6.35	923
212	0	0	0	0.52	7.04	833	7.02	835

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	6.24	2812	5.84	3000*
0	0	0	0	0.52	4.39	2372	3.91	2659
30	0	0	0	0.52	5.56	1871	4.88	2133
40	0	0	0	0.52	5.96	1747	5.23	1991
50	0	0	0	0.52	6.35	1640	5.58	1864
60	0	0	0	0.52	6.73	1546	5.94	1751
70	0	0	0	0.52	7.11	1465	6.3	1651
80	0	0	0	0.52	7.48	1393	6.66	1563
90	0	0	0	0.52	7.83	1330	7.02	1484
100	0	0	0	0.52	8.18	1273	7.36	1414
110	0	0	0	0.52	8.52	1222	7.71	1352
120	0	0	0	0.52	8.83	1180	8.04	1295
130	0	0	0	0.52	9.01	1156	8.37	1245
167	0	0	0	0.52	9.69	1076	9.52	1094
212	0	0	0	0.52	10.49	995	10.46	997

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	9.63	2845	9.14	3000*
0	0	0	0	0.52	7.51	2166	6.79	2395
30	0	0	0	0.52	8.87	1834	8.02	2029
40	0	0	0	0.52	9.31	1747	8.43	1930
50	0	0	0	0.52	9.74	1670	8.84	1840
60	0	0	0	0.52	10.17	1601	9.25	1759
70	0	0	0	0.52	10.58	1538	9.65	1686
80	0	0	0	0.52	10.99	1482	10.05	1619
90	0	0	0	0.52	11.38	1430	10.44	1559
100	0	0	0	0.52	11.77	1383	10.83	1503
110	0	0	0	0.52	12.15	1341	11.21	1452
120	0	0	0	0.52	12.52	1301	11.58	1406
130	0	0	0	0.52	12.83	1270	11.95	1363
167	0	0	0	0.52	13.6	1198	13.25	1230
212	0	0	0	0.52	14.51	1124	14.47	1127

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DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7
100.00	0-3	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-10	1-0
125.00	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-1	1-4	1-6
150.00	0-6	0-7	0-8	0-9	0-10	1-0	1-3	1-7	1-11	2-2
175.00	0-8	0-9	0-10	1-0	1-2	1-5	1-9	2-1	2-7	3-0
200.00	0-11	1-0	1-2	1-4	1-6	1-10	2-3	2-9	3-4	3-11

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-4	0-4	0-5	0-6	0-7	0-7
100.00	0-3	0-3	0-4	0-5	0-6	0-8	0-10	0-11	1-0	1-1
125.00	0-5	0-5	0-6	0-8	0-10	1-0	1-3	1-5	1-6	1-8
150.00	0-7	0-8	0-9	0-11	1-2	1-6	1-10	2-0	2-2	2-4
175.00	0-9	0-10	1-0	1-3	1-7	2-0	2-6	2-9	3-0	3-3
200.00	1-0	1-2	1-4	1-8	2-1	2-8	3-3	3-7	3-11	4-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
125.00	0-4	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0
150.00	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-6
175.00	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-8	1-10	2-0
200.00	0-11	1-1	1-2	1-4	1-6	1-9	1-11	2-2	2-5	2-7
225.00	1-2	1-4	1-6	1-8	1-11	2-2	2-5	2-9	3-0	3-4
250.00	1-6	1-8	1-10	2-1	2-4	2-8	3-0	3-4	3-9	4-1

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-9	0-9
125.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
150.00	0-7	0-8	0-10	0-11	1-1	1-3	1-4	1-6	1-7	1-8
175.00	0-10	0-11	1-1	1-3	1-5	1-8	1-10	2-0	2-2	2-3
200.00	1-1	1-3	1-5	1-8	1-11	2-2	2-5	2-8	2-10	3-0
225.00	1-4	1-7	1-10	2-1	2-5	2-9	3-0	3-4	3-7	3-9
250.00	1-8	1-11	2-3	2-7	3-0	3-4	3-9	4-2	4-5	4-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.197

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
175.00	0-10	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-7	1-8
200.00	1-0	1-2	1-3	1-4	1-6	1-8	1-9	1-11	2-0	2-2
225.00	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9
250.00	1-7	1-9	1-11	2-2	2-4	2-7	2-9	3-0	3-2	3-4
275.00	2-0	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-10	4-1
300.00	2-4	2-7	2-10	3-1	3-4	3-8	4-0	4-3	4-7	4-10
325.00	2-9	3-0	3-4	3-7	3-11	4-4	4-8	5-0	5-4	5-8
350.00	3-2	3-6	3-10	4-2	4-7	5-0	5-5	5-10	6-2	6-7
375.00	3-8	4-0	4-5	4-10	5-3	5-9	6-2	6-8	7-2	7-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-4
175.00	0-11	1-0	1-2	1-3	1-4	1-6	1-7	1-8	1-9	1-10
200.00	1-2	1-4	1-6	1-7	1-9	1-11	2-1	2-2	2-4	2-5
225.00	1-6	1-8	1-10	2-1	2-3	2-5	2-7	2-9	2-11	3-1
250.00	1-11	2-1	2-4	2-6	2-9	3-0	3-3	3-5	3-8	3-10
275.00	2-3	2-6	2-10	3-1	3-4	3-7	3-11	4-2	4-5	4-7
300.00	2-8	3-0	3-4	3-8	4-0	4-4	4-7	4-11	5-3	5-6
325.00	3-2	3-6	3-11	4-3	4-8	5-1	5-5	5-9	6-2	6-5
350.00	3-8	4-1	4-6	5-0	5-5	5-10	6-3	6-9	7-1	7-6
375.00	4-3	4-8	5-2	5-9	6-3	6-9	7-3	7-8	8-2	8-7

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STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
225.00	1-5	1-7	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5
250.00	1-9	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-11	3-0
275.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
300.00	2-7	2-9	2-11	3-2	3-4	3-7	3-9	3-11	4-2	4-4
325.00	3-0	3-3	3-5	3-8	3-11	4-2	4-5	4-8	4-10	5-1
350.00	3-6	3-9	4-0	4-3	4-7	4-10	5-1	5-4	5-8	5-11
375.00	4-0	4-3	4-7	4-11	5-3	5-6	5-10	6-2	6-6	6-9
400.00	4-6	4-11	5-3	5-7	5-11	6-4	6-8	7-0	7-4	7-8
425.00	5-1	5-6	5-11	6-4	6-9	7-1	7-6	7-11	8-4	8-8
450.00	5-9	6-2	6-7	7-1	7-6	8-0	8-5	8-11	9-4	9-9
475.00	6-5	6-11	7-4	7-11	8-5	8-11	9-5	9-11	10-5	10-10
500.00	7-1	7-7	8-2	8-9	9-3	9-10	10-5	11-0	11-6	12-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-3	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-1	2-2
225.00	1-8	1-9	1-11	2-0	2-2	2-3	2-4	2-6	2-7	2-8
250.00	2-0	2-2	2-4	2-6	2-8	2-9	2-11	3-1	3-2	3-4
275.00	2-5	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10	4-0
300.00	2-11	3-2	3-4	3-7	3-9	4-0	4-2	4-5	4-7	4-10
325.00	3-5	3-8	3-11	4-2	4-5	4-8	4-11	5-2	5-5	5-8
350.00	3-11	4-3	4-7	4-10	5-2	5-5	5-9	6-0	6-3	6-6
375.00	4-6	4-11	5-3	5-7	5-11	6-3	6-7	6-11	7-2	7-6
400.00	5-2	5-7	5-11	6-4	6-9	7-1	7-6	7-10	8-2	8-6
425.00	5-10	6-3	6-9	7-2	7-7	8-0	8-5	8-10	9-3	9-7
450.00	6-6	7-0	7-6	8-0	8-6	9-0	9-6	9-11	10-4	10-9
475.00	7-3	7-10	8-5	8-11	9-6	10-0	10-7	11-1	11-7	12-0
500.00	8-1	8-8	9-4	9-11	10-6	11-1	11-8	12-3	12-9	13-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.199

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-11	2-0	2-1	2-3	2-4	2-5	2-6	2-7	2-8	2-10
275.00	2-4	2-5	2-7	2-8	2-10	2-11	3-0	3-2	3-3	3-5
300.00	2-9	2-11	3-0	3-2	3-4	3-6	3-7	3-9	3-11	4-0
325.00	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-7	4-9
350.00	3-9	3-11	4-2	4-4	4-6	4-9	4-11	5-1	5-4	5-6
375.00	4-3	4-6	4-9	5-0	5-2	5-5	5-8	5-10	6-1	6-4
400.00	4-10	5-2	5-5	5-8	5-11	6-2	6-5	6-8	6-11	7-2
425.00	5-6	5-9	6-1	6-5	6-8	7-0	7-3	7-7	7-10	8-1
450.00	6-2	6-6	6-10	7-2	7-6	7-10	8-2	8-6	8-9	9-1
475.00	6-10	7-3	7-7	8-0	8-4	8-9	9-1	9-5	9-9	10-1
500.00	7-7	8-0	8-5	8-10	9-3	9-8	10-1	10-5	10-10	11-3
525.00	8-5	8-10	9-4	9-9	10-2	10-8	11-1	11-6	11-11	12-4
550.00	9-2	9-8	10-2	10-8	11-2	11-8	12-2	12-8	13-1	13-7
575.00	10-1	10-7	11-2	11-8	12-3	12-9	13-4	13-10	14-4	14-10
600.00	10-11	11-7	12-2	12-9	13-4	13-11	14-6	15-1	15-7	16-2
625.00	11-11	12-6	13-2	13-10	14-5	15-1	15-9	16-4	16-11	17-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-1	2-3	2-4	2-5	2-6	2-8	2-9	2-10	2-11	3-0
275.00	2-7	2-8	2-10	2-11	3-1	3-2	3-4	3-5	3-7	3-8
300.00	3-0	3-2	3-4	3-6	3-8	3-10	3-11	4-1	4-3	4-4
325.00	3-7	3-9	3-11	4-1	4-4	4-6	4-8	4-10	5-0	5-2
350.00	4-2	4-4	4-7	4-9	5-0	5-2	5-5	5-7	5-9	5-11
375.00	4-9	5-0	5-3	5-6	5-9	5-11	6-2	6-5	6-7	6-10
400.00	5-5	5-8	6-0	6-3	6-6	6-9	7-0	7-3	7-6	7-9
425.00	6-1	6-5	6-9	7-0	7-4	7-8	7-11	8-3	8-6	8-9
450.00	6-10	7-2	7-7	7-11	8-3	8-7	8-11	9-3	9-6	9-10
475.00	7-7	8-0	8-5	8-10	9-2	9-7	9-11	10-3	10-7	11-0
500.00	8-5	8-10	9-4	9-9	10-2	10-7	11-0	11-5	11-9	12-2
525.00	9-3	9-9	10-3	10-9	11-3	11-8	12-1	12-7	13-0	13-5
550.00	10-2	10-9	11-3	11-10	12-4	12-10	13-4	13-9	14-3	14-8
575.00	11-2	11-9	12-4	12-11	13-5	14-0	14-6	15-1	15-7	16-1
600.00	12-2	12-9	13-5	14-0	14-8	15-3	15-10	16-5	16-11	17-6
625.00	13-2	13-10	14-7	15-3	15-11	16-6	17-2	17-10	18-5	19-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.200

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.314	1.66	992	1.64	1000*
20	0	0	0	0.52	1.08	602	1.05	616
30	0	0	0	0.52	1.23	531	1.19	545
40	0	0	0	0.52	1.36	478	1.33	491
50	0	0	0	0.52	1.49	437	1.45	449
60	0	0	0	0.52	1.61	404	1.57	415
70	0	0	0	0.52	1.72	378	1.68	387
80	0	0	0	0.52	1.82	357	1.79	364
90	0	0	0	0.52	1.89	345	1.89	345
100	0	0	0	0.52	1.95	333	1.95	333
110	0	0	0	0.52	2.01	323	2.01	323
120	0	0	0	0.52	2.07	314	2.07	314
130	0	0	0	0.52	2.13	305	2.13	305
167	0	0	0	0.52	2.34	278	2.34	278
212	0	0	0	0.52	2.58	253	2.58	253

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.314	6.61	998	6.6	1000*
20	0	0	0	0.52	6.06	431	6.03	433
30	0	0	0	0.52	6.19	422	6.16	424
40	0	0	0	0.52	6.32	413	6.28	416
50	0	0	0	0.52	6.44	405	6.4	408
60	0	0	0	0.52	6.56	398	6.52	400
70	0	0	0	0.52	6.68	391	6.64	393
80	0	0	0	0.52	6.8	384	6.75	387
90	0	0	0	0.52	6.88	380	6.87	380
100	0	0	0	0.52	6.96	375	6.96	375
110	0	0	0	0.52	7.03	371	7.03	371
120	0	0	0	0.52	7.11	368	7.11	368
130	0	0	0	0.52	7.18	364	7.18	364
167	0	0	0	0.52	7.45	351	7.45	351
212	0	0	0	0.52	7.76	337	7.76	337

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.201

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.314	14.95	999	14.93	1000*
20	0	0	0	0.52	14.4	410	14.37	411
30	0	0	0	0.52	14.52	407	14.49	407
40	0	0	0	0.52	14.65	403	14.61	404
50	0	0	0	0.52	14.77	400	14.73	401
60	0	0	0	0.52	14.89	397	14.85	398
70	0	0	0	0.52	15.02	393	14.97	395
80	0	0	0	0.52	15.14	390	15.09	392
90	0	0	0	0.52	15.22	388	15.21	389
100	0	0	0	0.52	15.31	386	15.31	386
110	0	0	0	0.52	15.38	384	15.38	384
120	0	0	0	0.52	15.46	382	15.46	382
130	0	0	0	0.52	15.54	380	15.54	380
167	0	0	0	0.52	15.83	374	15.83	374
212	0	0	0	0.52	16.17	366	16.17	366

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.314	26.77	999	26.76	1000*
20	0	0	0	0.52	26.23	403	26.2	404
30	0	0	0	0.52	26.35	402	26.32	402
40	0	0	0	0.52	26.47	400	26.44	400
50	0	0	0	0.52	26.6	398	26.56	398
60	0	0	0	0.52	26.72	396	26.68	397
70	0	0	0	0.52	26.84	394	26.8	395
80	0	0	0	0.52	26.96	393	26.91	393
90	0	0	0	0.52	27.05	391	27.03	392
100	0	0	0	0.52	27.14	390	27.14	390
110	0	0	0	0.52	27.22	389	27.22	389
120	0	0	0	0.52	27.3	388	27.3	388
130	0	0	0	0.52	27.38	387	27.38	387
167	0	0	0	0.52	27.67	383	27.67	383
212	0	0	0	0.52	28.02	378	28.02	378

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.202

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.314	42.26	1000	42.25	1000*
20	0	0	0	0.52	41.72	400	41.69	401
30	0	0	0	0.52	41.84	399	41.81	400
40	0	0	0	0.52	41.97	398	41.93	398
50	0	0	0	0.52	42.09	397	42.05	397
60	0	0	0	0.52	42.21	396	42.17	396
70	0	0	0	0.52	42.33	395	42.29	395
80	0	0	0	0.52	42.45	394	42.41	394
90	0	0	0	0.52	42.55	393	42.52	393
100	0	0	0	0.52	42.63	392	42.63	392
110	0	0	0	0.52	42.71	392	42.71	392
120	0	0	0	0.52	42.79	391	42.79	391
130	0	0	0	0.52	42.87	390	42.87	390
167	0	0	0	0.52	43.17	388	43.17	388
212	0	0	0	0.52	43.53	385	43.53	385

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.203

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2
100.00	1-1	1-2	1-4	1-5	1-7	1-8	1-9	1-11	1-11	2-0
125.00	1-8	1-10	2-1	2-3	2-5	2-8	2-9	2-11	3-1	3-2
150.00	2-4	2-8	3-0	3-3	3-6	3-9	4-0	4-3	4-5	4-6
175.00	3-3	3-8	4-1	4-5	4-10	5-2	5-6	5-9	6-0	6-2
200.00	4-3	4-9	5-4	5-10	6-3	6-9	7-2	7-7	7-10	8-1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-1	1-2
100.00	1-1	1-3	1-4	1-6	1-7	1-9	1-10	1-11	1-11	2-0
125.00	1-8	1-11	2-2	2-4	2-6	2-8	2-10	2-11	3-1	3-2
150.00	2-5	2-9	3-1	3-4	3-7	3-11	4-1	4-3	4-5	4-6
175.00	3-4	3-9	4-2	4-7	4-11	5-3	5-7	5-9	6-0	6-2
200.00	4-4	4-11	5-5	6-0	6-5	6-11	7-4	7-7	7-10	8-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-6	1-7	1-7	1-8	1-8	1-8	1-9	1-9	1-9
125.00	2-4	2-5	2-5	2-6	2-7	2-7	2-8	2-8	2-9	2-9
150.00	3-5	3-6	3-6	3-7	3-8	3-9	3-10	3-10	3-11	3-11
175.00	4-7	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5
200.00	6-0	6-2	6-3	6-5	6-6	6-8	6-9	6-10	7-0	7-0
225.00	7-8	7-10	7-11	8-1	8-3	8-5	8-7	8-8	8-10	8-11
250.00	9-5	9-8	9-10	10-0	10-2	10-5	10-7	10-9	10-11	11-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-7	1-7	1-7	1-8	1-8	1-8	1-9	1-9	1-9
125.00	2-4	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-9	2-9
150.00	3-5	3-6	3-7	3-7	3-8	3-9	3-10	3-10	3-11	3-11
175.00	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5
200.00	6-1	6-2	6-4	6-5	6-7	6-8	6-10	6-11	7-0	7-0
225.00	7-8	7-10	8-0	8-2	8-4	8-6	8-7	8-9	8-10	8-11
250.00	9-6	9-8	9-11	10-1	10-3	10-5	10-8	10-9	10-11	11-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.205

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-7	3-7	3-8	3-8	3-8	3-9	3-9	3-10	3-10	3-10
175.00	4-11	4-11	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-3
200.00	6-5	6-5	6-6	6-6	6-7	6-8	6-8	6-9	6-9	6-10
225.00	8-1	8-2	8-3	8-3	8-4	8-5	8-6	8-6	8-7	8-8
250.00	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-7	10-8
275.00	12-1	12-2	12-3	12-4	12-6	12-7	12-8	12-9	12-10	12-11
300.00	14-4	14-6	14-7	14-9	14-10	15-0	15-1	15-2	15-4	15-5
325.00	16-10	17-0	17-2	17-4	17-5	17-7	17-9	17-10	18-0	18-1
350.00	19-7	19-9	19-11	20-1	20-3	20-5	20-7	20-9	20-10	21-0
375.00	22-6	22-8	22-10	23-1	23-3	23-5	23-7	23-10	24-0	24-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-7	3-7	3-8	3-8	3-9	3-9	3-9	3-10	3-10	3-10
175.00	4-11	4-11	5-0	5-0	5-1	5-1	5-2	5-2	5-2	5-3
200.00	6-5	6-5	6-6	6-7	6-7	6-8	6-9	6-9	6-9	6-10
225.00	8-1	8-2	8-3	8-4	8-4	8-5	8-6	8-7	8-7	8-8
250.00	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-7	10-8
275.00	12-1	12-2	12-4	12-5	12-6	12-7	12-9	12-9	12-10	12-11
300.00	14-5	14-6	14-8	14-9	14-11	15-0	15-2	15-3	15-4	15-5
325.00	16-11	17-1	17-2	17-4	17-6	17-8	17-9	17-11	18-0	18-1
350.00	19-7	19-10	20-0	20-2	20-4	20-6	20-8	20-9	20-10	21-0
375.00	22-6	22-9	22-11	23-1	23-4	23-6	23-8	23-10	24-0	24-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-6	6-7	6-7	6-7	6-8	6-8	6-8	6-9	6-9	6-9
225.00	8-3	8-4	8-4	8-4	8-5	8-5	8-6	8-6	8-7	8-7
250.00	10-2	10-3	10-4	10-4	10-5	10-5	10-6	10-6	10-7	10-7
275.00	12-4	12-5	12-6	12-6	12-7	12-8	12-8	12-9	12-9	12-10
300.00	14-8	14-9	14-10	14-11	15-0	15-0	15-1	15-2	15-3	15-3
325.00	17-3	17-4	17-5	17-6	17-7	17-8	17-9	17-10	17-11	17-11
350.00	20-0	20-1	20-3	20-4	20-5	20-6	20-7	20-8	20-9	20-10
375.00	23-0	23-1	23-3	23-4	23-5	23-6	23-8	23-9	23-10	23-11
400.00	26-2	26-4	26-5	26-7	26-8	26-10	26-11	27-0	27-2	27-3
425.00	29-7	29-9	29-10	30-0	30-2	30-3	30-5	30-6	30-8	30-9
450.00	33-2	33-4	33-6	33-8	33-10	34-0	34-1	34-3	34-5	34-6
475.00	37-0	37-2	37-4	37-6	37-9	37-11	38-1	38-3	38-4	38-6
500.00	41-1	41-3	41-5	41-8	41-10	42-0	42-2	42-5	42-7	42-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-6	6-7	6-7	6-7	6-8	6-8	6-9	6-9	6-9	6-9
225.00	8-3	8-4	8-4	8-5	8-5	8-6	8-6	8-6	8-7	8-7
250.00	10-3	10-3	10-4	10-4	10-5	10-5	10-6	10-6	10-7	10-7
275.00	12-4	12-5	12-6	12-6	12-7	12-8	12-8	12-9	12-9	12-10
300.00	14-9	14-9	14-10	14-11	15-0	15-1	15-2	15-2	15-3	15-3
325.00	17-3	17-4	17-5	17-6	17-7	17-8	17-9	17-10	17-11	17-11
350.00	20-1	20-2	20-3	20-4	20-5	20-6	20-7	20-8	20-9	20-10
375.00	23-0	23-2	23-3	23-4	23-6	23-7	23-8	23-9	23-10	23-11
400.00	26-3	26-4	26-6	26-7	26-9	26-10	27-0	27-1	27-2	27-3
425.00	29-8	29-9	29-11	30-1	30-2	30-4	30-6	30-7	30-8	30-9
450.00	33-3	33-5	33-7	33-9	33-10	34-0	34-2	34-4	34-5	34-6
475.00	37-1	37-3	37-5	37-7	37-9	37-11	38-1	38-3	38-4	38-6
500.00	41-1	41-4	41-6	41-8	41-11	42-1	42-3	42-5	42-7	42-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.207

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-4	10-5	10-5	10-5	10-6	10-6	10-6	10-7	10-7	10-7
275.00	12-6	12-7	12-7	12-8	12-8	12-9	12-9	12-9	12-10	12-10
300.00	14-11	15-0	15-0	15-1	15-1	15-2	15-2	15-3	15-3	15-3
325.00	17-6	17-7	17-7	17-8	17-9	17-9	17-10	17-10	17-11	17-11
350.00	20-4	20-5	20-5	20-6	20-7	20-7	20-8	20-9	20-9	20-10
375.00	23-4	23-5	23-6	23-7	23-7	23-8	23-9	23-10	23-11	23-11
400.00	26-7	26-8	26-9	26-10	26-11	27-0	27-1	27-1	27-2	27-3
425.00	30-1	30-2	30-3	30-4	30-5	30-6	30-7	30-8	30-9	30-9
450.00	33-9	33-10	33-11	34-0	34-1	34-2	34-3	34-5	34-6	34-6
475.00	37-7	37-8	37-10	37-11	38-0	38-2	38-3	38-4	38-5	38-6
500.00	41-8	41-10	41-11	42-1	42-2	42-3	42-5	42-6	42-8	42-9
525.00	46-0	46-2	46-3	46-5	46-6	46-8	46-10	46-11	47-1	47-2
550.00	50-7	50-8	50-10	51-0	51-1	51-3	51-5	51-7	51-8	51-9
575.00	55-4	55-6	55-7	55-9	55-11	56-1	56-3	56-5	56-7	56-8
600.00	60-3	60-5	60-7	60-10	61-0	61-2	61-4	61-6	61-8	61-9
625.00	65-6	65-8	65-10	66-1	66-3	66-5	66-7	66-10	67-0	67-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-4	10-5	10-5	10-5	10-6	10-6	10-6	10-7	10-7	10-7
275.00	12-6	12-7	12-7	12-8	12-8	12-9	12-9	12-9	12-10	12-10
300.00	14-11	15-0	15-0	15-1	15-1	15-2	15-2	15-3	15-3	15-3
325.00	17-6	17-7	17-8	17-8	17-9	17-9	17-10	17-11	17-11	17-11
350.00	20-4	20-5	20-6	20-6	20-7	20-8	20-8	20-9	20-9	20-10
375.00	23-4	23-5	23-6	23-7	23-8	23-9	23-9	23-10	23-11	23-11
400.00	26-7	26-8	26-9	26-10	26-11	27-0	27-1	27-2	27-2	27-3
425.00	30-1	30-2	30-3	30-4	30-5	30-6	30-7	30-8	30-9	30-9
450.00	33-9	33-10	33-11	34-0	34-2	34-3	34-4	34-5	34-6	34-6
475.00	37-7	37-9	37-10	37-11	38-1	38-2	38-3	38-4	38-5	38-6
500.00	41-9	41-10	42-0	42-1	42-3	42-4	42-5	42-7	42-8	42-9
525.00	46-0	46-2	46-4	46-5	46-7	46-9	46-10	46-11	47-1	47-2
550.00	50-7	50-9	50-11	51-0	51-2	51-4	51-6	51-7	51-8	51-9
575.00	55-4	55-6	55-8	55-10	56-0	56-2	56-4	56-5	56-7	56-8
600.00	60-4	60-6	60-8	60-10	61-0	61-3	61-5	61-6	61-8	61-9
625.00	65-6	65-9	65-11	66-1	66-4	66-6	66-8	66-10	67-0	67-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.208

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.314	1.14	1442	1.1	1500*
20	0	0	0	0.52	0.42	1536	0.4	1611
30	0	0	0	0.52	0.53	1223	0.49	1334
40	0	0	0	0.52	0.67	973	0.6	1091
50	0	0	0	0.52	0.82	791	0.73	895
60	0	0	0	0.52	0.98	664	0.87	747
70	0	0	0	0.52	1.13	576	1.02	640
80	0	0	0	0.52	1.27	511	1.16	562
90	0	0	0	0.52	1.36	479	1.29	503
100	0	0	0	0.52	1.43	455	1.42	458
110	0	0	0	0.52	1.51	432	1.51	432
120	0	0	0	0.52	1.58	412	1.58	412
130	0	0	0	0.52	1.65	395	1.65	395
167	0	0	0	0.52	1.89	344	1.89	344
212	0	0	0	0.52	2.17	301	2.17	301

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.314	4.44	1484	4.39	1500*
20	0	0	0	0.52	3.47	751	3.37	773
30	0	0	0	0.52	3.67	709	3.57	730
40	0	0	0	0.52	3.87	673	3.76	693
50	0	0	0	0.52	4.06	642	3.94	660
60	0	0	0	0.52	4.24	615	4.12	632
70	0	0	0	0.52	4.41	590	4.3	606
80	0	0	0	0.52	4.58	568	4.46	584
90	0	0	0	0.52	4.75	549	4.63	563
100	0	0	0	0.52	4.85	537	4.79	545
110	0	0	0	0.52	4.95	527	4.94	528
120	0	0	0	0.52	5.05	516	5.05	516
130	0	0	0	0.52	5.15	506	5.15	506
167	0	0	0	0.52	5.49	475	5.49	475
212	0	0	0	0.52	5.89	443	5.89	443

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.314	9.95	1493	9.9	1500*
20	0	0	0	0.52	8.99	653	8.89	660
30	0	0	0	0.52	9.18	640	9.08	647
40	0	0	0	0.52	9.37	627	9.27	634
50	0	0	0	0.52	9.56	614	9.45	622
60	0	0	0	0.52	9.74	603	9.63	610
70	0	0	0	0.52	9.92	592	9.8	599
80	0	0	0	0.52	10.1	582	9.98	589
90	0	0	0	0.52	10.27	572	10.15	579
100	0	0	0	0.52	10.41	565	10.32	570
110	0	0	0	0.52	10.52	559	10.48	561
120	0	0	0	0.52	10.63	553	10.63	553
130	0	0	0	0.52	10.74	548	10.74	548
167	0	0	0	0.52	11.13	528	11.13	528
212	0	0	0	0.52	11.59	508	11.59	508

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.314	17.71	1496	17.66	1500*
20	0	0	0	0.52	16.75	625	16.66	629
30	0	0	0	0.52	16.94	618	16.84	622
40	0	0	0	0.52	17.13	612	17.03	615
50	0	0	0	0.52	17.32	605	17.21	609
60	0	0	0	0.52	17.5	599	17.39	603
70	0	0	0	0.52	17.68	593	17.56	597
80	0	0	0	0.52	17.86	587	17.74	591
90	0	0	0	0.52	18.04	581	17.91	585
100	0	0	0	0.52	18.19	577	18.09	580
110	0	0	0	0.52	18.3	573	18.26	574
120	0	0	0	0.52	18.42	569	18.42	569
130	0	0	0	0.52	18.53	566	18.53	566
167	0	0	0	0.52	18.95	554	18.95	554
212	0	0	0	0.52	19.45	540	19.45	540

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.210

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.314	27.77	1498	27.72	1500*
20	0	0	0	0.52	26.82	613	26.72	615
30	0	0	0	0.52	27	609	26.9	611
40	0	0	0	0.52	27.19	605	27.08	607
50	0	0	0	0.52	27.37	601	27.26	603
60	0	0	0	0.52	27.56	597	27.44	599
70	0	0	0	0.52	27.74	593	27.62	596
80	0	0	0	0.52	27.92	589	27.8	592
90	0	0	0	0.52	28.1	586	27.97	588
100	0	0	0	0.52	28.25	583	28.15	585
110	0	0	0	0.52	28.37	580	28.32	581
120	0	0	0	0.52	28.49	578	28.49	578
130	0	0	0	0.52	28.61	575	28.61	575
167	0	0	0	0.52	29.04	567	29.04	567
212	0	0	0	0.52	29.55	558	29.55	558

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10
100.00	0-5	0-6	0-7	0-9	0-10	1-0	1-2	1-4	1-5	1-6
125.00	0-8	0-9	0-11	1-2	1-4	1-7	1-10	2-0	2-3	2-4
150.00	0-11	1-1	1-4	1-8	1-11	2-3	2-7	2-11	3-2	3-5
175.00	1-3	1-6	1-10	2-3	2-8	3-1	3-7	4-0	4-4	4-7
200.00	1-7	1-11	2-5	2-11	3-6	4-1	4-8	5-2	5-8	6-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9	0-10	0-10
100.00	0-5	0-6	0-8	0-10	1-0	1-2	1-3	1-4	1-5	1-6
125.00	0-8	0-10	1-1	1-3	1-6	1-9	2-0	2-1	2-3	2-4
150.00	0-11	1-2	1-6	1-10	2-2	2-7	2-10	3-1	3-3	3-5
175.00	1-4	1-8	2-1	2-6	3-0	3-6	3-11	4-2	4-5	4-7
200.00	1-8	2-2	2-8	3-3	3-11	4-6	5-1	5-5	5-9	6-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.212

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-10	1-11
150.00	1-11	2-0	2-1	2-3	2-4	2-5	2-6	2-7	2-8	2-9
175.00	2-7	2-9	2-11	3-0	3-2	3-3	3-5	3-6	3-8	3-9
200.00	3-4	3-7	3-9	3-11	4-1	4-4	4-6	4-8	4-9	4-11
225.00	4-3	4-6	4-9	5-0	5-3	5-5	5-8	5-10	6-1	6-3
250.00	5-3	5-7	5-10	6-2	6-5	6-9	7-0	7-3	7-6	7-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11
150.00	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-8	2-9	2-9
175.00	2-8	2-10	3-0	3-1	3-3	3-5	3-6	3-8	3-9	3-9
200.00	3-6	3-8	3-10	4-1	4-3	4-5	4-7	4-9	4-10	4-11
225.00	4-5	4-8	4-11	5-2	5-4	5-7	5-10	6-0	6-2	6-3
250.00	5-5	5-9	6-1	6-4	6-8	6-11	7-2	7-5	7-7	7-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.213

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-7	2-7
175.00	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-5	3-6	3-7
200.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
225.00	5-0	5-1	5-3	5-4	5-5	5-6	5-7	5-8	5-10	5-11
250.00	6-2	6-4	6-5	6-7	6-8	6-10	6-11	7-1	7-2	7-3
275.00	7-6	7-8	7-9	7-11	8-1	8-3	8-5	8-6	8-8	8-10
300.00	8-11	9-1	9-3	9-5	9-8	9-10	10-0	10-2	10-4	10-6
325.00	10-5	10-8	10-11	11-1	11-4	11-6	11-9	11-11	12-1	12-4
350.00	12-1	12-4	12-7	12-10	13-1	13-4	13-7	13-10	14-1	14-3
375.00	13-11	14-2	14-6	14-9	15-1	15-4	15-7	15-10	16-2	16-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-8
175.00	3-1	3-1	3-2	3-3	3-4	3-4	3-5	3-6	3-6	3-7
200.00	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-7	4-8
225.00	5-1	5-2	5-3	5-4	5-6	5-7	5-8	5-9	5-10	5-11
250.00	6-3	6-4	6-6	6-8	6-9	6-11	7-0	7-2	7-3	7-4
275.00	7-7	7-9	7-10	8-0	8-2	8-4	8-6	8-8	8-9	8-10
300.00	9-0	9-2	9-4	9-7	9-9	9-11	10-1	10-3	10-5	10-6
325.00	10-7	10-9	11-0	11-3	11-5	11-8	11-10	12-1	12-3	12-4
350.00	12-3	12-6	12-9	13-0	13-3	13-6	13-9	14-0	14-2	14-4
375.00	14-1	14-4	14-8	14-11	15-3	15-6	15-10	16-1	16-3	16-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.214

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-2	4-2	4-3	4-4	4-4	4-5	4-5	4-6	4-6	4-7
225.00	5-3	5-4	5-5	5-5	5-6	5-7	5-7	5-8	5-9	5-9
250.00	6-6	6-7	6-8	6-9	6-9	6-10	6-11	7-0	7-1	7-1
275.00	7-10	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7
300.00	9-4	9-6	9-7	9-8	9-9	9-10	10-0	10-1	10-2	10-3
325.00	11-0	11-1	11-3	11-4	11-6	11-7	11-8	11-10	11-11	12-1
350.00	12-9	12-11	13-0	13-2	13-4	13-5	13-7	13-8	13-10	14-0
375.00	14-8	14-10	15-0	15-1	15-3	15-5	15-7	15-9	15-11	16-1
400.00	16-8	16-10	17-0	17-2	17-5	17-7	17-9	17-11	18-1	18-3
425.00	18-10	19-0	19-3	19-5	19-8	19-10	20-0	20-3	20-5	20-7
450.00	21-1	21-4	21-7	21-9	22-0	22-3	22-6	22-8	22-11	23-2
475.00	23-6	23-9	24-0	24-3	24-7	24-10	25-1	25-3	25-6	25-9
500.00	26-1	26-4	26-8	26-11	27-2	27-6	27-9	28-0	28-4	28-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-2	4-3	4-3	4-4	4-4	4-5	4-5	4-6	4-6	4-7
225.00	5-4	5-4	5-5	5-6	5-6	5-7	5-8	5-8	5-9	5-9
250.00	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-0	7-1	7-2
275.00	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8
300.00	9-5	9-6	9-8	9-9	9-10	9-11	10-0	10-2	10-3	10-3
325.00	11-1	11-2	11-4	11-5	11-7	11-8	11-9	11-11	12-0	12-1
350.00	12-10	13-0	13-1	13-3	13-5	13-6	13-8	13-10	13-11	14-0
375.00	14-9	14-11	15-1	15-3	15-5	15-6	15-8	15-10	16-0	16-1
400.00	16-9	16-11	17-2	17-4	17-6	17-8	17-10	18-0	18-2	18-4
425.00	18-11	19-2	19-4	19-7	19-9	20-0	20-2	20-4	20-6	20-8
450.00	21-3	21-5	21-8	21-11	22-2	22-5	22-7	22-10	23-0	23-2
475.00	23-8	23-11	24-2	24-5	24-8	25-0	25-3	25-6	25-8	25-10
500.00	26-3	26-6	26-10	27-1	27-5	27-8	27-11	28-3	28-6	28-8

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STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-8	6-8	6-9	6-10	6-10	6-11	6-11	7-0	7-0	7-1
275.00	8-1	8-1	8-2	8-3	8-3	8-4	8-5	8-5	8-6	8-7
300.00	9-7	9-8	9-9	9-9	9-10	9-11	10-0	10-1	10-1	10-2
325.00	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-9	11-10	11-11
350.00	13-1	13-2	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-10
375.00	15-0	15-1	15-3	15-4	15-5	15-6	15-7	15-8	15-10	15-11
400.00	17-1	17-2	17-4	17-5	17-6	17-8	17-9	17-11	18-0	18-1
425.00	19-3	19-5	19-7	19-8	19-10	19-11	20-1	20-2	20-4	20-5
450.00	21-8	21-9	21-11	22-1	22-3	22-4	22-6	22-8	22-9	22-11
475.00	24-1	24-3	24-5	24-7	24-9	24-11	25-1	25-3	25-5	25-7
500.00	26-9	26-11	27-1	27-3	27-5	27-7	27-10	28-0	28-2	28-4
525.00	29-6	29-8	29-10	30-1	30-3	30-6	30-8	30-10	31-1	31-3
550.00	32-4	32-7	32-10	33-0	33-3	33-5	33-8	33-11	34-1	34-4
575.00	35-5	35-7	35-10	36-1	36-4	36-7	36-10	37-1	37-3	37-6
600.00	38-7	38-10	39-1	39-4	39-7	39-10	40-1	40-4	40-7	40-10
625.00	41-10	42-2	42-5	42-8	43-0	43-3	43-6	43-10	44-1	44-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-8	6-9	6-9	6-10	6-10	6-11	7-0	7-0	7-0	7-1
275.00	8-1	8-2	8-2	8-3	8-4	8-4	8-5	8-6	8-6	8-7
300.00	9-8	9-8	9-9	9-10	9-11	10-0	10-0	10-1	10-2	10-2
325.00	11-4	11-5	11-6	11-6	11-7	11-8	11-9	11-10	11-11	11-11
350.00	13-1	13-2	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-10
375.00	15-1	15-2	15-3	15-4	15-6	15-7	15-8	15-9	15-10	15-11
400.00	17-2	17-3	17-5	17-6	17-7	17-9	17-10	17-11	18-1	18-2
425.00	19-4	19-6	19-7	19-9	19-11	20-0	20-2	20-3	20-5	20-6
450.00	21-8	21-10	22-0	22-2	22-4	22-5	22-7	22-9	22-10	23-0
475.00	24-2	24-4	24-6	24-8	24-10	25-0	25-2	25-4	25-6	25-7
500.00	26-10	27-0	27-2	27-4	27-7	27-9	27-11	28-1	28-3	28-4
525.00	29-7	29-9	30-0	30-2	30-5	30-7	30-10	31-0	31-2	31-4
550.00	32-6	32-8	32-11	33-2	33-4	33-7	33-10	34-0	34-3	34-4
575.00	35-6	35-9	36-0	36-3	36-6	36-9	37-0	37-3	37-5	37-7
600.00	38-8	38-11	39-3	39-6	39-9	40-0	40-3	40-6	40-9	40-11
625.00	42-0	42-3	42-7	42-10	43-2	43-5	43-9	44-0	44-3	44-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.216

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.314	0.9	1826	0.82	2000*
20	0	0	0	0.52	0.28	2325	0.26	2472
30	0	0	0	0.52	0.34	1939	0.3	2162
40	0	0	0	0.52	0.41	1578	0.35	1856
50	0	0	0	0.52	0.52	1258	0.42	1560
60	0	0	0	0.52	0.65	1000	0.51	1286
70	0	0	0	0.52	0.8	810	0.62	1049
80	0	0	0	0.52	0.96	678	0.75	862
90	0	0	0	0.52	1.05	617	0.9	722
100	0	0	0	0.52	1.13	576	1.05	622
110	0	0	0	0.52	1.2	540	1.19	548
120	0	0	0	0.52	1.28	507	1.28	507
130	0	0	0	0.52	1.36	479	1.36	479
167	0	0	0	0.52	1.62	401	1.62	401
212	0	0	0	0.52	1.92	339	1.92	339

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.314	3.38	1945	3.29	2000*
20	0	0	0	0.52	2.02	1287	1.86	1402
30	0	0	0	0.52	2.27	1146	2.08	1252
40	0	0	0	0.52	2.52	1033	2.31	1128
50	0	0	0	0.52	2.76	943	2.54	1026
60	0	0	0	0.52	2.99	870	2.76	942
70	0	0	0	0.52	3.21	810	2.98	873
80	0	0	0	0.52	3.43	760	3.19	815
90	0	0	0	0.52	3.63	717	3.4	766
100	0	0	0	0.52	3.79	687	3.6	724
110	0	0	0	0.52	3.9	667	3.79	687
120	0	0	0	0.52	4.02	649	3.97	655
130	0	0	0	0.52	4.13	631	4.13	631
167	0	0	0	0.52	4.53	576	4.53	576
212	0	0	0	0.52	4.98	523	4.98	523

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.217

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.314	7.5	1975	7.41	2000*
20	0	0	0	0.52	6.06	967	5.85	1001
30	0	0	0	0.52	6.33	927	6.11	959
40	0	0	0	0.52	6.58	890	6.36	921
50	0	0	0	0.52	6.83	858	6.61	887
60	0	0	0	0.52	7.08	829	6.85	856
70	0	0	0	0.52	7.31	802	7.08	828
80	0	0	0	0.52	7.54	778	7.31	802
90	0	0	0	0.52	7.77	755	7.53	779
100	0	0	0	0.52	7.99	734	7.75	757
110	0	0	0	0.52	8.13	721	7.96	737
120	0	0	0	0.52	8.27	710	8.17	718
130	0	0	0	0.52	8.4	699	8.37	701
167	0	0	0	0.52	8.87	662	8.87	662
212	0	0	0	0.52	9.42	623	9.42	623

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.314	13.29	1986	13.2	2000*
20	0	0	0	0.52	11.85	881	11.64	896
30	0	0	0	0.52	12.1	862	11.9	877
40	0	0	0	0.52	12.36	845	12.14	860
50	0	0	0	0.52	12.61	828	12.39	843
60	0	0	0	0.52	12.85	813	12.63	827
70	0	0	0	0.52	13.09	798	12.86	812
80	0	0	0	0.52	13.33	784	13.09	798
90	0	0	0	0.52	13.56	770	13.32	784
100	0	0	0	0.52	13.79	758	13.55	771
110	0	0	0	0.52	13.98	748	13.77	759
120	0	0	0	0.52	14.12	740	13.99	747
130	0	0	0	0.52	14.26	733	14.21	736
167	0	0	0	0.52	14.78	707	14.78	707
212	0	0	0	0.52	15.39	680	15.39	680

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.218

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.314	20.77	1991	20.68	2000*
20	0	0	0	0.52	19.32	846	19.13	855
30	0	0	0	0.52	19.58	835	19.37	844
40	0	0	0	0.52	19.83	825	19.62	833
50	0	0	0	0.52	20.08	815	19.86	823
60	0	0	0	0.52	20.32	805	20.1	814
70	0	0	0	0.52	20.57	796	20.33	804
80	0	0	0	0.52	20.8	786	20.57	795
90	0	0	0	0.52	21.04	778	20.8	787
100	0	0	0	0.52	21.28	769	21.03	778
110	0	0	0	0.52	21.48	762	21.26	770
120	0	0	0	0.52	21.63	757	21.49	762
130	0	0	0	0.52	21.78	752	21.71	754
167	0	0	0	0.52	22.33	734	22.33	734
212	0	0	0	0.52	22.97	713	22.97	713

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2
125.00	0-5	0-6	0-7	0-8	0-9	1-0	1-2	1-5	1-8	1-10
150.00	0-7	0-8	0-9	0-11	1-2	1-5	1-8	2-0	2-4	2-8
175.00	0-10	0-11	1-1	1-3	1-7	1-11	2-4	2-9	3-2	3-8
200.00	1-1	1-2	1-5	1-8	2-0	2-6	3-0	3-7	4-2	4-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-8
100.00	0-3	0-4	0-5	0-6	0-8	0-10	1-0	1-1	1-2	1-2
125.00	0-5	0-6	0-8	0-10	1-0	1-3	1-6	1-8	1-9	1-11
150.00	0-8	0-9	0-11	1-2	1-6	1-10	2-2	2-4	2-6	2-9
175.00	0-10	1-0	1-3	1-7	2-0	2-6	2-11	3-3	3-6	3-8
200.00	1-1	1-4	1-8	2-1	2-7	3-3	3-10	4-3	4-6	4-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11
125.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
150.00	1-1	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-0	2-2
175.00	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11
200.00	1-10	2-1	2-4	2-6	2-9	3-0	3-2	3-5	3-7	3-9
225.00	2-4	2-8	2-11	3-3	3-6	3-9	4-0	4-4	4-7	4-10
250.00	2-11	3-3	3-7	4-0	4-4	4-8	5-0	5-4	5-7	5-11

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0
125.00	0-9	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-6
150.00	1-2	1-3	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-2
175.00	1-7	1-9	1-11	2-1	2-3	2-6	2-7	2-9	2-11	3-0
200.00	2-0	2-3	2-6	2-9	3-0	3-3	3-5	3-8	3-9	3-11
225.00	2-7	2-10	3-2	3-6	3-9	4-1	4-4	4-7	4-10	4-11
250.00	3-2	3-7	3-11	4-4	4-8	5-0	5-4	5-8	5-11	6-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.221

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11	2-0
175.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8
200.00	2-7	2-9	2-10	2-11	3-0	3-2	3-3	3-4	3-5	3-6
225.00	3-3	3-5	3-7	3-9	3-10	4-0	4-1	4-3	4-4	4-6
250.00	4-1	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-6
275.00	4-11	5-2	5-4	5-7	5-9	5-11	6-2	6-4	6-6	6-8
300.00	5-10	6-1	6-4	6-7	6-10	7-1	7-4	7-6	7-9	8-0
325.00	6-10	7-2	7-6	7-9	8-0	8-4	8-7	8-10	9-1	9-4
350.00	8-0	8-4	8-8	9-0	9-4	9-8	9-11	10-3	10-7	10-10
375.00	9-2	9-7	9-11	10-4	10-8	11-1	11-5	11-9	12-1	12-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11	2-0	2-0
175.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-9
200.00	2-8	2-10	2-11	3-0	3-2	3-3	3-4	3-5	3-7	3-7
225.00	3-5	3-7	3-8	3-10	4-0	4-1	4-3	4-4	4-6	4-7
250.00	4-2	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-8
275.00	5-1	5-4	5-6	5-9	5-11	6-2	6-4	6-6	6-9	6-10
300.00	6-1	6-4	6-7	6-10	7-1	7-4	7-7	7-9	8-0	8-2
325.00	7-1	7-5	7-9	8-0	8-4	8-7	8-10	9-1	9-5	9-7
350.00	8-3	8-7	9-0	9-4	9-8	9-11	10-3	10-7	10-11	11-1
375.00	9-6	9-11	10-3	10-8	11-1	11-5	11-9	12-2	12-6	12-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.222

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-11	3-0	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-5
225.00	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-3	4-4
250.00	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-4
275.00	5-6	5-7	5-9	5-10	6-0	6-1	6-2	6-4	6-5	6-6
300.00	6-7	6-8	6-10	7-0	7-1	7-3	7-4	7-6	7-7	7-9
325.00	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-9	8-11	9-1
350.00	8-11	9-1	9-4	9-6	9-8	9-10	10-0	10-2	10-4	10-6
375.00	10-3	10-5	10-8	10-11	11-1	11-4	11-6	11-8	11-11	12-1
400.00	11-8	11-11	12-2	12-5	12-8	12-10	13-1	13-4	13-7	13-9
425.00	13-2	13-5	13-9	14-0	14-3	14-6	14-9	15-1	15-4	15-7
450.00	14-9	15-1	15-4	15-8	16-0	16-3	16-7	16-10	17-2	17-5
475.00	16-5	16-9	17-2	17-6	17-10	18-2	18-6	18-10	19-1	19-5
500.00	18-2	18-7	19-0	19-4	19-9	20-1	20-6	20-10	21-2	21-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-0	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-5	3-6
225.00	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5
250.00	4-7	4-9	4-10	4-11	5-0	5-1	5-2	5-4	5-5	5-5
275.00	5-7	5-9	5-10	5-11	6-1	6-2	6-4	6-5	6-6	6-7
300.00	6-8	6-10	6-11	7-1	7-3	7-4	7-6	7-7	7-9	7-10
325.00	7-10	8-0	8-2	8-4	8-6	8-8	8-10	8-11	9-1	9-3
350.00	9-1	9-3	9-6	9-8	9-10	10-0	10-2	10-5	10-7	10-8
375.00	10-5	10-8	10-10	11-1	11-4	11-6	11-9	11-11	12-1	12-3
400.00	11-10	12-1	12-4	12-7	12-10	13-1	13-4	13-7	13-10	14-0
425.00	13-5	13-8	13-11	14-3	14-6	14-9	15-1	15-4	15-7	15-9
450.00	15-0	15-4	15-8	16-0	16-3	16-7	16-11	17-2	17-6	17-8
475.00	16-9	17-1	17-5	17-9	18-2	18-6	18-10	19-2	19-6	19-9
500.00	18-6	18-11	19-4	19-9	20-1	20-6	20-10	21-3	21-7	21-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.223

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-9	4-10	4-11	4-11	5-0	5-1	5-2	5-2	5-3	5-4
275.00	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-3	6-4	6-5
300.00	6-11	7-0	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8
325.00	8-1	8-2	8-3	8-5	8-6	8-7	8-8	8-9	8-10	9-0
350.00	9-4	9-6	9-7	9-9	9-10	9-11	10-1	10-2	10-4	10-5
375.00	10-9	10-11	11-0	11-2	11-4	11-5	11-7	11-8	11-10	11-11
400.00	12-3	12-5	12-7	12-8	12-10	13-0	13-2	13-4	13-5	13-7
425.00	13-10	14-0	14-2	14-4	14-6	14-8	14-10	15-0	15-2	15-4
450.00	15-6	15-8	15-11	16-1	16-3	16-6	16-8	16-10	17-0	17-3
475.00	17-3	17-6	17-8	17-11	18-2	18-4	18-7	18-9	19-0	19-2
500.00	19-2	19-4	19-7	19-10	20-1	20-4	20-7	20-10	21-0	21-3
525.00	21-1	21-4	21-8	21-11	22-2	22-5	22-8	22-11	23-2	23-5
550.00	23-2	23-5	23-9	24-0	24-4	24-7	24-11	25-2	25-6	25-9
575.00	25-4	25-8	26-0	26-3	26-7	26-11	27-3	27-6	27-10	28-2
600.00	27-7	27-11	28-3	28-7	29-0	29-4	29-8	30-0	30-4	30-8
625.00	29-11	30-4	30-8	31-1	31-5	31-10	32-2	32-7	32-11	33-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-10	4-11	4-11	5-0	5-1	5-2	5-2	5-3	5-4	5-4
275.00	5-10	5-11	6-0	6-1	6-2	6-3	6-3	6-4	6-5	6-6
300.00	6-11	7-0	7-2	7-3	7-4	7-5	7-6	7-7	7-8	7-9
325.00	8-2	8-3	8-4	8-6	8-7	8-8	8-9	8-11	9-0	9-1
350.00	9-6	9-7	9-8	9-10	9-11	10-1	10-2	10-4	10-5	10-6
375.00	10-10	11-0	11-2	11-3	11-5	11-7	11-8	11-10	11-11	12-1
400.00	12-4	12-6	12-8	12-10	13-0	13-2	13-4	13-5	13-7	13-9
425.00	13-11	14-2	14-4	14-6	14-8	14-10	15-0	15-2	15-4	15-6
450.00	15-8	15-10	16-1	16-3	16-5	16-8	16-10	17-0	17-3	17-5
475.00	17-5	17-8	17-11	18-1	18-4	18-7	18-9	19-0	19-2	19-5
500.00	19-4	19-7	19-10	20-1	20-4	20-7	20-10	21-1	21-3	21-6
525.00	21-4	21-7	21-10	22-2	22-5	22-8	22-11	23-2	23-6	23-8
550.00	23-5	23-8	24-0	24-4	24-7	24-11	25-2	25-6	25-9	26-0
575.00	25-7	25-11	26-3	26-7	26-11	27-3	27-6	27-10	28-2	28-5
600.00	27-10	28-3	28-7	28-11	29-4	29-8	30-0	30-4	30-8	31-0
625.00	30-3	30-8	31-0	31-5	31-10	32-2	32-7	32-11	33-3	33-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.224

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.314	0.77	2147	0.66	2500*
20	0	0	0	0.52	0.23	2853	0.21	3135
30	0	0	0	0.52	0.27	2451	0.23	2827
40	0	0	0	0.52	0.32	2060	0.26	2517
50	0	0	0	0.52	0.38	1690	0.29	2205
60	0	0	0	0.52	0.48	1354	0.34	1895
70	0	0	0	0.52	0.6	1075	0.41	1596
80	0	0	0	0.52	0.75	863	0.49	1316
90	0	0	0	0.52	0.84	771	0.61	1073
100	0	0	0	0.52	0.91	713	0.74	879
110	0	0	0	0.52	0.98	662	0.88	735
120	0	0	0	0.52	1.06	616	1.03	630
130	0	0	0	0.52	1.13	575	1.13	577
167	0	0	0	0.52	1.41	462	1.4	463
212	0	0	0	0.52	1.73	377	1.72	378

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.314	2.79	2360	2.63	2500*
20	0	0	0	0.52	1.28	2026	1.14	2286
30	0	0	0	0.52	1.49	1750	1.28	2030
40	0	0	0	0.52	1.71	1519	1.45	1794
50	0	0	0	0.52	1.96	1330	1.64	1584
60	0	0	0	0.52	2.2	1180	1.85	1403
70	0	0	0	0.52	2.45	1060	2.08	1252
80	0	0	0	0.52	2.7	965	2.31	1127
90	0	0	0	0.52	2.93	888	2.54	1025
100	0	0	0	0.52	3.12	834	2.77	941
110	0	0	0	0.52	3.24	804	2.99	872
120	0	0	0	0.52	3.36	775	3.2	814
130	0	0	0	0.52	3.48	749	3.41	764
167	0	0	0	0.52	3.9	667	3.9	668
212	0	0	0	0.52	4.39	593	4.39	593

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.225

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.314	6.08	2436	5.92	2500*
20	0	0	0	0.52	4.15	1410	3.82	1533
30	0	0	0	0.52	4.47	1309	4.12	1422
40	0	0	0	0.52	4.78	1224	4.41	1327
50	0	0	0	0.52	5.09	1151	4.71	1244
60	0	0	0	0.52	5.38	1088	4.99	1173
70	0	0	0	0.52	5.67	1033	5.28	1110
80	0	0	0	0.52	5.95	985	5.55	1055
90	0	0	0	0.52	6.22	943	5.82	1007
100	0	0	0	0.52	6.48	905	6.08	964
110	0	0	0	0.52	6.69	876	6.33	925
120	0	0	0	0.52	6.84	857	6.58	891
130	0	0	0	0.52	6.99	839	6.82	859
167	0	0	0	0.52	7.51	781	7.51	781
212	0	0	0	0.52	8.12	722	8.12	722

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.314	10.7	2464	10.54	2500*
20	0	0	0	0.52	8.7	1198	8.34	1249
30	0	0	0	0.52	9.02	1155	8.66	1204
40	0	0	0	0.52	9.34	1116	8.97	1162
50	0	0	0	0.52	9.65	1080	9.27	1124
60	0	0	0	0.52	9.96	1047	9.57	1089
70	0	0	0	0.52	10.25	1017	9.86	1057
80	0	0	0	0.52	10.54	989	10.15	1027
90	0	0	0	0.52	10.83	963	10.43	1000
100	0	0	0	0.52	11.11	939	10.71	974
110	0	0	0	0.52	11.38	917	10.98	950
120	0	0	0	0.52	11.57	902	11.24	928
130	0	0	0	0.52	11.73	890	11.51	907
167	0	0	0	0.52	12.32	847	12.32	847
212	0	0	0	0.52	13.02	802	13.02	802

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.314	16.65	2478	16.5	2500*
20	0	0	0	0.52	14.64	1114	14.29	1141
30	0	0	0	0.52	14.96	1090	14.6	1117
40	0	0	0	0.52	15.27	1068	14.91	1094
50	0	0	0	0.52	15.59	1047	15.21	1072
60	0	0	0	0.52	15.89	1027	15.51	1052
70	0	0	0	0.52	16.19	1008	15.81	1032
80	0	0	0	0.52	16.49	990	16.1	1014
90	0	0	0	0.52	16.78	973	16.39	996
100	0	0	0	0.52	17.07	956	16.67	979
110	0	0	0	0.52	17.35	941	16.95	963
120	0	0	0	0.52	17.59	928	17.23	948
130	0	0	0	0.52	17.77	919	17.5	933
167	0	0	0	0.52	18.4	888	18.4	888
212	0	0	0	0.52	19.15	853	19.15	853

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6
100.00	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-11
125.00	0-4	0-4	0-5	0-6	0-6	0-8	0-9	0-11	1-2	1-5
150.00	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-8	2-0
175.00	0-8	0-8	0-9	0-11	1-1	1-3	1-6	1-10	2-3	2-9
200.00	0-10	0-11	1-0	1-2	1-4	1-8	2-0	2-5	3-0	3-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6	0-7
100.00	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-10	0-11	1-0
125.00	0-4	0-5	0-6	0-7	0-9	0-11	1-2	1-4	1-5	1-6
150.00	0-6	0-7	0-9	0-10	1-1	1-4	1-8	1-11	2-1	2-3
175.00	0-8	0-10	1-0	1-2	1-6	1-10	2-4	2-7	2-10	3-0
200.00	0-11	1-1	1-3	1-6	1-11	2-5	3-0	3-5	3-8	3-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.228

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-8	0-9
125.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
150.00	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-5	1-7	1-8
175.00	0-10	1-0	1-1	1-3	1-5	1-7	1-9	1-11	2-1	2-3
200.00	1-2	1-3	1-5	1-8	1-10	2-1	2-4	2-6	2-9	3-0
225.00	1-5	1-7	1-10	2-1	2-4	2-8	2-11	3-3	3-6	3-9
250.00	1-9	2-0	2-3	2-7	2-11	3-3	3-7	4-0	4-4	4-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10
125.00	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-3	1-3
150.00	0-9	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-9	1-10
175.00	1-0	1-2	1-4	1-6	1-8	1-11	2-1	2-3	2-5	2-6
200.00	1-3	1-6	1-9	1-11	2-2	2-5	2-8	2-11	3-1	3-3
225.00	1-7	1-11	2-2	2-6	2-9	3-1	3-5	3-9	3-11	4-1
250.00	2-0	2-4	2-8	3-1	3-5	3-10	4-3	4-7	4-10	5-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.229

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7
175.00	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2
200.00	1-8	1-10	2-0	2-1	2-3	2-4	2-6	2-7	2-8	2-10
225.00	2-2	2-4	2-6	2-8	2-10	3-0	3-1	3-3	3-5	3-7
250.00	2-8	2-10	3-1	3-3	3-6	3-8	3-10	4-0	4-3	4-5
275.00	3-3	3-6	3-8	3-11	4-2	4-5	4-8	4-11	5-1	5-4
300.00	3-10	4-1	4-5	4-8	5-0	5-3	5-7	5-10	6-1	6-4
325.00	4-6	4-10	5-2	5-6	5-10	6-2	6-6	6-10	7-2	7-5
350.00	5-2	5-7	6-0	6-5	6-10	7-2	7-7	7-11	8-3	8-7
375.00	6-0	6-5	6-11	7-4	7-10	8-3	8-8	9-1	9-6	9-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8
175.00	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3
200.00	1-10	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-11	3-0
225.00	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-9
250.00	2-11	3-1	3-4	3-6	3-9	3-11	4-2	4-4	4-6	4-8
275.00	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-5	5-7
300.00	4-2	4-6	4-9	5-1	5-5	5-8	5-11	6-3	6-6	6-8
325.00	4-10	5-3	5-7	6-0	6-4	6-8	7-0	7-4	7-7	7-10
350.00	5-8	6-1	6-6	6-11	7-4	7-9	8-1	8-6	8-10	9-1
375.00	6-6	7-0	7-6	7-11	8-5	8-10	9-4	9-9	10-1	10-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.230

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-1	2-2	2-3	2-4	2-5	2-6	2-6	2-7	2-8	2-9
225.00	2-8	2-9	2-10	2-11	3-0	3-1	3-3	3-4	3-5	3-6
250.00	3-3	3-5	3-6	3-7	3-9	3-10	4-0	4-1	4-2	4-3
275.00	3-11	4-1	4-3	4-5	4-6	4-8	4-10	4-11	5-1	5-2
300.00	4-8	4-10	5-1	5-3	5-5	5-7	5-8	5-10	6-0	6-2
325.00	5-6	5-9	5-11	6-1	6-4	6-6	6-8	6-11	7-1	7-3
350.00	6-5	6-8	6-10	7-1	7-4	7-7	7-9	8-0	8-2	8-5
375.00	7-4	7-7	7-11	8-2	8-5	8-8	8-11	9-2	9-5	9-8
400.00	8-4	8-8	9-0	9-3	9-7	9-10	10-2	10-5	10-9	11-0
425.00	9-5	9-9	10-2	10-6	10-10	11-2	11-6	11-9	12-1	12-5
450.00	10-7	10-11	11-4	11-9	12-1	12-6	12-10	13-2	13-7	13-11
475.00	11-9	12-3	12-8	13-1	13-6	13-11	14-4	14-9	15-1	15-6
500.00	13-0	13-6	14-0	14-6	15-0	15-5	15-10	16-4	16-9	17-2

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9	2-10
225.00	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-5	3-6	3-7
250.00	3-5	3-6	3-8	3-9	3-11	4-0	4-1	4-3	4-4	4-5
275.00	4-1	4-3	4-5	4-7	4-8	4-10	5-0	5-1	5-3	5-5
300.00	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-5
325.00	5-9	5-11	6-2	6-4	6-7	6-9	7-0	7-2	7-4	7-6
350.00	6-8	6-11	7-2	7-5	7-7	7-10	8-1	8-3	8-6	8-9
375.00	7-8	7-11	8-3	8-6	8-9	9-0	9-3	9-6	9-9	10-0
400.00	8-8	9-0	9-4	9-8	9-11	10-3	10-7	10-10	11-1	11-5
425.00	9-10	10-2	10-7	10-11	11-3	11-7	11-11	12-3	12-6	12-10
450.00	11-0	11-5	11-10	12-3	12-7	13-0	13-4	13-8	14-1	14-5
475.00	12-3	12-9	13-2	13-7	14-1	14-6	14-10	15-3	15-8	16-1
500.00	13-7	14-1	14-7	15-1	15-7	16-0	16-6	16-11	17-4	17-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.231

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-7	3-8	3-9	3-10	3-10	3-11	4-0	4-1	4-2	4-3
275.00	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	5-0	5-1
300.00	5-2	5-3	5-4	5-6	5-7	5-8	5-9	5-11	6-0	6-1
325.00	6-0	6-2	6-4	6-5	6-7	6-8	6-10	6-11	7-0	7-2
350.00	7-0	7-2	7-4	7-5	7-7	7-9	7-11	8-0	8-2	8-4
375.00	8-0	8-3	8-5	8-7	8-9	8-11	9-1	9-3	9-4	9-6
400.00	9-2	9-4	9-6	9-9	9-11	10-1	10-4	10-6	10-8	10-10
425.00	10-4	10-7	10-9	11-0	11-2	11-5	11-8	11-10	12-0	12-3
450.00	11-7	11-10	12-1	12-4	12-7	12-10	13-0	13-3	13-6	13-9
475.00	12-11	13-2	13-5	13-9	14-0	14-3	14-6	14-9	15-1	15-4
500.00	14-3	14-7	14-11	15-3	15-6	15-10	16-1	16-5	16-8	16-11
525.00	15-9	16-1	16-5	16-9	17-1	17-5	17-9	18-1	18-5	18-8
550.00	17-3	17-8	18-1	18-5	18-9	19-2	19-6	19-10	20-2	20-6
575.00	18-11	19-4	19-9	20-2	20-6	20-11	21-4	21-8	22-1	22-5
600.00	20-7	21-0	21-6	21-11	22-4	22-9	23-2	23-7	24-0	24-5
625.00	22-4	22-10	23-4	23-9	24-3	24-9	25-2	25-7	26-1	26-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-8	3-9	3-10	3-11	4-0	4-1	4-1	4-2	4-3	4-4
275.00	4-5	4-6	4-7	4-9	4-10	4-11	5-0	5-1	5-2	5-3
300.00	5-3	5-5	5-6	5-7	5-9	5-10	5-11	6-0	6-2	6-3
325.00	6-2	6-4	6-5	6-7	6-9	6-10	7-0	7-1	7-2	7-4
350.00	7-2	7-4	7-6	7-8	7-9	7-11	8-1	8-3	8-4	8-6
375.00	8-3	8-5	8-7	8-9	8-11	9-1	9-3	9-5	9-7	9-9
400.00	9-4	9-7	9-9	10-0	10-2	10-4	10-7	10-9	10-11	11-1
425.00	10-7	10-10	11-0	11-3	11-6	11-8	11-11	12-1	12-4	12-6
450.00	11-10	12-1	12-4	12-7	12-10	13-1	13-4	13-7	13-10	14-1
475.00	13-2	13-6	13-9	14-1	14-4	14-7	14-11	15-2	15-5	15-8
500.00	14-8	14-11	15-3	15-7	15-11	16-2	16-6	16-9	17-1	17-4
525.00	16-2	16-6	16-10	17-2	17-6	17-10	18-2	18-6	18-10	19-2
550.00	17-9	18-1	18-6	18-10	19-3	19-7	19-11	20-4	20-8	21-0
575.00	19-4	19-9	20-3	20-7	21-0	21-5	21-10	22-2	22-7	23-0
600.00	21-1	21-7	22-0	22-5	22-11	23-4	23-9	24-2	24-7	25-0
625.00	22-11	23-5	23-11	24-4	24-10	25-4	25-9	26-3	26-8	27-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.232

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.314	0.67	2449	0.55	3000*
20	0	0	0	0.52	0.2	3284	0.18	3710
30	0	0	0	0.52	0.23	2875	0.19	3410
40	0	0	0	0.52	0.26	2472	0.21	3105
50	0	0	0	0.52	0.31	2081	0.23	2795
60	0	0	0	0.52	0.38	1709	0.26	2482
70	0	0	0	0.52	0.47	1371	0.3	2168
80	0	0	0	0.52	0.6	1088	0.35	1857
90	0	0	0	0.52	0.69	944	0.42	1557
100	0	0	0	0.52	0.75	872	0.51	1281
110	0	0	0	0.52	0.81	805	0.62	1043
120	0	0	0	0.52	0.87	744	0.76	855
130	0	0	0	0.52	0.94	689	0.91	717
167	0	0	0	0.52	1.22	534	1.2	541
212	0	0	0	0.52	1.55	420	1.54	424

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.314	2.42	2722	2.19	3000*
20	0	0	0	0.52	0.96	2704	0.84	3102
30	0	0	0	0.52	1.1	2358	0.92	2817
40	0	0	0	0.52	1.27	2043	1.03	2536
50	0	0	0	0.52	1.47	1765	1.15	2265
60	0	0	0	0.52	1.7	1531	1.3	2008
70	0	0	0	0.52	1.94	1340	1.47	1772
80	0	0	0	0.52	2.19	1188	1.66	1563
90	0	0	0	0.52	2.44	1067	1.88	1384
100	0	0	0	0.52	2.64	987	2.11	1235
110	0	0	0	0.52	2.75	945	2.34	1113
120	0	0	0	0.52	2.87	906	2.57	1013
130	0	0	0	0.52	2.99	869	2.79	931
167	0	0	0	0.52	3.43	758	3.42	762
212	0	0	0	0.52	3.95	659	3.94	661

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.233

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.314	5.18	2861	4.93	3000*
20	0	0	0	0.52	2.92	2005	2.54	2301
30	0	0	0	0.52	3.23	1809	2.79	2097
40	0	0	0	0.52	3.56	1644	3.06	1913
50	0	0	0	0.52	3.89	1506	3.34	1751
60	0	0	0	0.52	4.21	1390	3.64	1609
70	0	0	0	0.52	4.53	1292	3.94	1487
80	0	0	0	0.52	4.84	1209	4.24	1382
90	0	0	0	0.52	5.14	1138	4.53	1292
100	0	0	0	0.52	5.44	1077	4.83	1213
110	0	0	0	0.52	5.7	1028	5.11	1145
120	0	0	0	0.52	5.85	1001	5.39	1086
130	0	0	0	0.52	6.01	976	5.67	1034
167	0	0	0	0.52	6.57	892	6.55	895
212	0	0	0	0.52	7.22	812	7.21	813

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.314	9.02	2921	8.78	3000*
20	0	0	0	0.52	6.47	1610	5.93	1756
30	0	0	0	0.52	6.85	1520	6.29	1656
40	0	0	0	0.52	7.22	1442	6.64	1568
50	0	0	0	0.52	7.59	1373	6.99	1489
60	0	0	0	0.52	7.94	1312	7.34	1419
70	0	0	0	0.52	8.29	1257	7.68	1356
80	0	0	0	0.52	8.63	1208	8.01	1300
90	0	0	0	0.52	8.95	1164	8.34	1249
100	0	0	0	0.52	9.28	1124	8.66	1203
110	0	0	0	0.52	9.59	1087	8.98	1161
120	0	0	0	0.52	9.85	1059	9.28	1123
130	0	0	0	0.52	10.03	1040	9.58	1088
167	0	0	0	0.52	10.67	977	10.64	980
212	0	0	0	0.52	11.43	913	11.42	914

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.234

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Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.314	13.96	2951	13.73	3000*
20	0	0	0	0.52	11.33	1437	10.77	1512
30	0	0	0	0.52	11.72	1390	11.15	1461
40	0	0	0	0.52	12.1	1346	11.52	1414
50	0	0	0	0.52	12.47	1306	11.88	1371
60	0	0	0	0.52	12.84	1269	12.24	1331
70	0	0	0	0.52	13.19	1235	12.59	1294
80	0	0	0	0.52	13.54	1203	12.94	1259
90	0	0	0	0.52	13.89	1174	13.28	1227
100	0	0	0	0.52	14.22	1146	13.61	1198
110	0	0	0	0.52	14.55	1121	13.94	1170
120	0	0	0	0.52	14.87	1096	14.26	1143
130	0	0	0	0.52	15.09	1080	14.58	1118
167	0	0	0	0.52	15.8	1032	15.71	1038
212	0	0	0	0.52	16.64	981	16.63	982

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7
125.00	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-10	1-0
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-11	1-2	1-5
175.00	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-7	1-11
200.00	0-8	0-9	0-10	0-11	1-1	1-2	1-5	1-8	2-0	2-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-5	0-5
100.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10
125.00	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-3
150.00	0-5	0-6	0-7	0-8	0-10	1-1	1-4	1-7	1-8	1-10
175.00	0-7	0-8	0-10	0-11	1-2	1-5	1-10	2-1	2-3	2-6
200.00	0-10	0-11	1-1	1-3	1-6	1-11	2-5	2-9	3-0	3-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.236

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7
125.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11
150.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-4
175.00	0-8	0-8	0-9	0-11	1-0	1-1	1-3	1-5	1-7	1-9
200.00	0-10	0-11	1-0	1-2	1-4	1-6	1-8	1-11	2-1	2-4
225.00	1-1	1-2	1-4	1-5	1-8	1-10	2-1	2-5	2-8	3-0
250.00	1-4	1-5	1-7	1-10	2-0	2-4	2-7	2-11	3-3	3-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-7	0-8	0-8
125.00	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
150.00	0-6	0-7	0-9	0-10	0-11	1-1	1-3	1-4	1-6	1-7
175.00	0-9	0-10	1-0	1-2	1-4	1-6	1-8	1-10	2-0	2-1
200.00	1-0	1-1	1-3	1-6	1-8	1-11	2-2	2-5	2-8	2-9
225.00	1-3	1-5	1-7	1-10	2-2	2-5	2-9	3-1	3-4	3-6
250.00	1-6	1-9	2-0	2-4	2-8	3-0	3-5	3-10	4-1	4-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.237

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3
175.00	0-10	0-11	1-0	1-2	1-3	1-4	1-5	1-7	1-8	1-9
200.00	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-0	2-2	2-3
225.00	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11
250.00	1-9	1-11	2-1	2-4	2-6	2-9	2-11	3-2	3-4	3-7
275.00	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-10	4-1	4-4
300.00	2-7	2-9	3-1	3-4	3-8	3-11	4-3	4-6	4-10	5-1
325.00	3-0	3-3	3-7	3-11	4-3	4-7	5-0	5-4	5-8	6-0
350.00	3-6	3-10	4-2	4-7	4-11	5-4	5-9	6-2	6-7	7-0
375.00	4-0	4-4	4-9	5-3	5-8	6-2	6-7	7-1	7-7	8-0

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-3	1-4	1-5
175.00	1-0	1-1	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11
200.00	1-4	1-5	1-7	1-9	1-10	2-0	2-2	2-3	2-5	2-6
225.00	1-8	1-10	2-0	2-2	2-4	2-7	2-9	2-11	3-1	3-2
250.00	2-0	2-3	2-6	2-8	2-11	3-2	3-4	3-7	3-9	3-11
275.00	2-5	2-9	3-0	3-3	3-6	3-10	4-1	4-4	4-7	4-9
300.00	2-11	3-3	3-7	3-11	4-3	4-6	4-10	5-2	5-5	5-8
325.00	3-5	3-10	4-2	4-7	4-11	5-4	5-8	6-0	6-5	6-8
350.00	4-0	4-5	4-10	5-3	5-9	6-2	6-7	7-0	7-5	7-9
375.00	4-7	5-1	5-7	6-1	6-7	7-1	7-7	8-0	8-6	8-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.238

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3
225.00	1-11	2-0	2-1	2-3	2-4	2-5	2-6	2-8	2-9	2-10
250.00	2-4	2-5	2-7	2-9	2-10	3-0	3-2	3-3	3-5	3-6
275.00	2-10	3-0	3-2	3-4	3-6	3-8	3-9	3-11	4-1	4-3
300.00	3-4	3-6	3-9	3-11	4-2	4-4	4-6	4-8	4-10	5-1
325.00	3-11	4-2	4-5	4-7	4-10	5-1	5-3	5-6	5-9	5-11
350.00	4-6	4-10	5-1	5-4	5-7	5-11	6-2	6-5	6-8	6-10
375.00	5-3	5-6	5-10	6-2	6-5	6-9	7-1	7-4	7-7	7-11
400.00	5-11	6-3	6-8	7-0	7-4	7-8	8-0	8-4	8-8	9-0
425.00	6-8	7-1	7-6	7-11	8-3	8-8	9-1	9-5	9-9	10-2
450.00	7-6	7-11	8-5	8-10	9-3	9-9	10-2	10-7	11-0	11-4
475.00	8-4	8-10	9-4	9-10	10-4	10-10	11-4	11-9	12-3	12-8
500.00	9-3	9-10	10-5	10-11	11-6	12-0	12-6	13-0	13-6	14-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-7	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
225.00	2-1	2-2	2-3	2-5	2-6	2-7	2-9	2-10	2-11	3-0
250.00	2-6	2-8	2-10	3-0	3-1	3-3	3-4	3-6	3-7	3-9
275.00	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-6
300.00	3-8	3-10	4-1	4-3	4-6	4-8	4-10	5-0	5-3	5-5
325.00	4-3	4-6	4-9	5-0	5-3	5-6	5-8	5-11	6-1	6-4
350.00	4-11	5-3	5-6	5-10	6-1	6-4	6-7	6-10	7-1	7-4
375.00	5-8	6-0	6-4	6-8	7-0	7-3	7-7	7-10	8-2	8-5
400.00	6-6	6-10	7-3	7-7	7-11	8-3	8-8	8-11	9-3	9-7
425.00	7-4	7-9	8-2	8-7	9-0	9-4	9-9	10-1	10-6	10-10
450.00	8-2	8-8	9-2	9-7	10-1	10-6	10-11	11-4	11-9	12-2
475.00	9-1	9-8	10-2	10-8	11-2	11-8	12-2	12-8	13-1	13-6
500.00	10-1	10-8	11-3	11-10	12-5	12-11	13-6	14-0	14-6	15-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.239

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-8	2-9	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6
275.00	3-3	3-4	3-6	3-7	3-8	3-10	3-11	4-0	4-1	4-3
300.00	3-11	4-0	4-2	4-3	4-5	4-6	4-8	4-9	4-11	5-0
325.00	4-7	4-8	4-10	5-0	5-2	5-4	5-6	5-7	5-9	5-11
350.00	5-3	5-6	5-8	5-10	6-0	6-2	6-4	6-6	6-8	6-10
375.00	6-1	6-3	6-6	6-8	6-11	7-1	7-3	7-6	7-8	7-10
400.00	6-11	7-2	7-4	7-7	7-10	8-1	8-3	8-6	8-8	8-11
425.00	7-9	8-1	8-4	8-7	8-10	9-1	9-4	9-7	9-10	10-1
450.00	8-9	9-0	9-4	9-7	9-11	10-2	10-6	10-9	11-0	11-3
475.00	9-9	10-1	10-5	10-9	11-1	11-4	11-8	12-0	12-3	12-7
500.00	10-9	11-2	11-6	11-11	12-3	12-7	12-11	13-3	13-7	13-11
525.00	11-11	12-3	12-8	13-1	13-6	13-11	14-3	14-8	15-0	15-4
550.00	13-0	13-6	13-11	14-5	14-10	15-3	15-8	16-1	16-6	16-10
575.00	14-3	14-9	15-3	15-9	16-2	16-8	17-1	17-7	18-0	18-5
600.00	15-6	16-1	16-7	17-1	17-8	18-2	18-8	19-2	19-7	20-1
625.00	16-10	17-5	18-0	18-7	19-2	19-8	20-3	20-9	21-3	21-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-10	2-11	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8
275.00	3-5	3-7	3-8	3-9	3-11	4-0	4-1	4-2	4-4	4-5
300.00	4-1	4-3	4-4	4-6	4-7	4-9	4-10	5-0	5-1	5-3
325.00	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-10	6-0	6-2
350.00	5-7	5-9	5-11	6-1	6-3	6-6	6-8	6-10	7-0	7-2
375.00	6-4	6-7	6-10	7-0	7-3	7-5	7-7	7-10	8-0	8-2
400.00	7-3	7-6	7-9	8-0	8-3	8-5	8-8	8-11	9-1	9-4
425.00	8-2	8-6	8-9	9-0	9-3	9-6	9-9	10-0	10-3	10-6
450.00	9-2	9-6	9-10	10-1	10-5	10-8	11-0	11-3	11-6	11-9
475.00	10-3	10-7	10-11	11-3	11-7	11-11	12-3	12-6	12-10	13-2
500.00	11-4	11-9	12-1	12-6	12-10	13-2	13-7	13-11	14-3	14-7
525.00	12-6	12-11	13-4	13-9	14-2	14-7	14-11	15-4	15-8	16-1
550.00	13-9	14-2	14-8	15-1	15-6	16-0	16-5	16-10	17-3	17-7
575.00	15-0	15-6	16-0	16-6	17-0	17-5	17-11	18-4	18-10	19-3
600.00	16-4	16-11	17-5	18-0	18-6	19-0	19-6	20-0	20-6	21-0
625.00	17-9	18-4	18-11	19-6	20-1	20-7	21-2	21-8	22-3	22-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.240

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.314	1.64	1000	1.64	1000*
0	0	0	0	0.52	1.21	539	1.19	545
30	0	0	0	0.52	1.59	408	1.57	415
40	0	0	0	0.52	1.71	381	1.68	388
50	0	0	0	0.52	1.82	358	1.78	365
60	0	0	0	0.52	1.92	339	1.89	345
70	0	0	0	0.52	2.02	323	1.98	328
80	0	0	0	0.52	2.09	311	2.08	314
90	0	0	0	0.52	2.15	303	2.15	303
100	0	0	0	0.52	2.21	295	2.21	295
110	0	0	0	0.52	2.27	287	2.27	287
120	0	0	0	0.52	2.32	281	2.32	281
130	0	0	0	0.52	2.38	274	2.38	274
167	0	0	0	0.52	2.57	254	2.57	254
212	0	0	0	0.52	2.79	234	2.79	234

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.314	6.6	1000	6.6	1000*
0	0	0	0	0.52	6.16	424	6.12	426
30	0	0	0	0.52	6.55	399	6.52	401
40	0	0	0	0.52	6.67	392	6.64	394
50	0	0	0	0.52	6.79	385	6.75	387
60	0	0	0	0.52	6.9	378	6.86	381
70	0	0	0	0.52	7.02	372	6.98	374
80	0	0	0	0.52	7.13	366	7.09	369
90	0	0	0	0.52	7.21	363	7.2	363
100	0	0	0	0.52	7.28	359	7.28	359
110	0	0	0	0.52	7.35	356	7.35	356
120	0	0	0	0.52	7.42	352	7.42	352
130	0	0	0	0.52	7.49	349	7.49	349
167	0	0	0	0.52	7.75	338	7.75	338
212	0	0	0	0.52	8.05	325	8.05	325

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.241

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Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	14.93	1000	14.93	1000*
0	0	0	0	0.52	14.5	407	14.46	408
30	0	0	0	0.52	14.88	397	14.85	398
40	0	0	0	0.52	15	394	14.97	395
50	0	0	0	0.52	15.12	391	15.09	392
60	0	0	0	0.52	15.24	388	15.2	389
70	0	0	0	0.52	15.36	385	15.32	386
80	0	0	0	0.52	15.48	382	15.43	383
90	0	0	0	0.52	15.56	380	15.55	380
100	0	0	0	0.52	15.64	378	15.64	378
110	0	0	0	0.52	15.72	376	15.72	376
120	0	0	0	0.52	15.8	374	15.8	374
130	0	0	0	0.52	15.87	373	15.87	373
167	0	0	0	0.52	16.15	366	16.15	366
212	0	0	0	0.52	16.49	359	16.49	359

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	26.76	1000	26.76	1000*
0	0	0	0	0.52	26.33	402	26.28	403
30	0	0	0	0.52	26.71	396	26.68	397
40	0	0	0	0.52	26.83	395	26.79	395
50	0	0	0	0.52	26.95	393	26.91	393
60	0	0	0	0.52	27.07	391	27.03	392
70	0	0	0	0.52	27.19	390	27.15	390
80	0	0	0	0.52	27.31	388	27.26	389
90	0	0	0	0.52	27.4	387	27.38	387
100	0	0	0	0.52	27.48	386	27.48	386
110	0	0	0	0.52	27.56	385	27.56	385
120	0	0	0	0.52	27.64	383	27.64	383
130	0	0	0	0.52	27.72	382	27.72	382
167	0	0	0	0.52	28.01	379	28.01	379
212	0	0	0	0.52	28.35	374	28.35	374

* Design Condition

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SHEET 242 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.242

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	42.25	1000	42.25	1000*
0	0	0	0	0.52	41.82	399	41.77	400
30	0	0	0	0.52	42.2	396	42.17	396
40	0	0	0	0.52	42.32	395	42.29	395
50	0	0	0	0.52	42.44	394	42.4	394
60	0	0	0	0.52	42.56	393	42.52	393
70	0	0	0	0.52	42.68	392	42.64	392
80	0	0	0	0.52	42.81	391	42.76	391
90	0	0	0	0.52	42.89	390	42.87	390
100	0	0	0	0.52	42.98	389	42.98	389
110	0	0	0	0.52	43.06	389	43.06	389
120	0	0	0	0.52	43.14	388	43.14	388
130	0	0	0	0.52	43.22	387	43.22	387
167	0	0	0	0.52	43.51	385	43.51	385
212	0	0	0	0.52	43.87	382	43.87	382

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-3
100.00	1-5	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-3
125.00	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-4	3-5	3-7
150.00	3-3	3-6	3-9	4-0	4-3	4-6	4-8	4-10	5-0	5-1
175.00	4-5	4-10	5-2	5-6	5-9	6-1	6-4	6-7	6-9	6-11
200.00	5-10	6-3	6-9	7-2	7-7	7-11	8-4	8-8	8-10	9-1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-3	1-3
100.00	1-6	1-7	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-3
125.00	2-4	2-6	2-8	2-10	3-0	3-2	3-3	3-4	3-5	3-7
150.00	3-4	3-7	3-10	4-1	4-4	4-7	4-9	4-10	5-0	5-1
175.00	4-6	4-11	5-3	5-7	5-11	6-2	6-5	6-7	6-9	6-11
200.00	5-11	6-5	6-10	7-3	7-8	8-1	8-5	8-8	8-10	9-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-7	1-8	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10
125.00	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-10
150.00	3-7	3-8	3-9	3-10	3-10	3-11	4-0	4-1	4-1	4-2
175.00	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-7
200.00	6-5	6-6	6-8	6-9	6-10	7-0	7-1	7-2	7-3	7-4
225.00	8-1	8-3	8-5	8-7	8-8	8-10	9-0	9-1	9-3	9-4
250.00	10-0	10-2	10-5	10-7	10-9	10-11	11-1	11-3	11-5	11-6

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-7	1-8	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10
125.00	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-10
150.00	3-7	3-8	3-9	3-10	3-11	3-11	4-0	4-1	4-1	4-2
175.00	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
200.00	6-5	6-7	6-8	6-9	6-11	7-0	7-2	7-2	7-3	7-4
225.00	8-2	8-3	8-5	8-7	8-9	8-11	9-0	9-2	9-3	9-4
250.00	10-1	10-3	10-5	10-7	10-10	11-0	11-2	11-3	11-5	11-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.245

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-8	3-8	3-9	3-9	3-9	3-10	3-10	3-11	3-11	3-11
175.00	5-0	5-1	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4
200.00	6-6	6-7	6-8	6-8	6-9	6-10	6-10	6-11	6-11	7-0
225.00	8-3	8-4	8-5	8-6	8-6	8-7	8-8	8-9	8-9	8-10
250.00	10-3	10-4	10-5	10-6	10-7	10-8	10-8	10-9	10-10	10-11
275.00	12-4	12-6	12-7	12-8	12-9	12-10	13-0	13-1	13-2	13-2
300.00	14-9	14-10	15-0	15-1	15-2	15-4	15-5	15-7	15-8	15-9
325.00	17-4	17-5	17-7	17-9	17-10	18-0	18-1	18-3	18-4	18-6
350.00	20-1	20-3	20-5	20-7	20-9	20-11	21-0	21-2	21-4	21-5
375.00	23-1	23-3	23-5	23-7	23-10	24-0	24-2	24-4	24-6	24-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-8	3-9	3-9	3-9	3-10	3-10	3-10	3-11	3-11	3-11
175.00	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-3	5-4	5-4
200.00	6-7	6-7	6-8	6-9	6-9	6-10	6-10	6-11	6-11	7-0
225.00	8-3	8-4	8-5	8-6	8-7	8-8	8-8	8-9	8-9	8-10
250.00	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-10	10-11
275.00	12-5	12-6	12-7	12-8	12-10	12-11	13-0	13-1	13-2	13-2
300.00	14-9	14-11	15-0	15-1	15-3	15-4	15-6	15-7	15-8	15-9
325.00	17-4	17-6	17-7	17-9	17-11	18-0	18-2	18-3	18-4	18-6
350.00	20-1	20-3	20-5	20-7	20-9	20-11	21-1	21-3	21-4	21-5
375.00	23-1	23-4	23-6	23-8	23-10	24-1	24-3	24-4	24-6	24-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.246

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-7	6-8	6-8	6-8	6-9	6-9	6-9	6-10	6-10	6-10
225.00	8-4	8-5	8-5	8-6	8-6	8-7	8-7	8-8	8-8	8-8
250.00	10-4	10-5	10-5	10-6	10-6	10-7	10-7	10-8	10-8	10-9
275.00	12-6	12-7	12-8	12-8	12-9	12-9	12-10	12-11	12-11	13-0
300.00	14-11	15-0	15-0	15-1	15-2	15-3	15-4	15-4	15-5	15-6
325.00	17-6	17-7	17-8	17-9	17-10	17-11	18-0	18-0	18-1	18-2
350.00	20-4	20-5	20-6	20-7	20-8	20-9	20-10	20-11	21-0	21-1
375.00	23-4	23-5	23-6	23-8	23-9	23-10	23-11	24-1	24-2	24-2
400.00	26-7	26-8	26-10	26-11	27-0	27-2	27-3	27-5	27-6	27-7
425.00	30-0	30-2	30-3	30-5	30-6	30-8	30-10	30-11	31-1	31-2
450.00	33-8	33-10	34-0	34-1	34-3	34-5	34-7	34-9	34-10	34-11
475.00	37-6	37-8	37-11	38-1	38-3	38-5	38-7	38-9	38-10	39-0
500.00	41-8	41-10	42-0	42-2	42-5	42-7	42-9	42-11	43-1	43-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-7	6-8	6-8	6-8	6-9	6-9	6-10	6-10	6-10	6-10
225.00	8-5	8-5	8-5	8-6	8-6	8-7	8-7	8-8	8-8	8-8
250.00	10-4	10-5	10-5	10-6	10-6	10-7	10-8	10-8	10-8	10-9
275.00	12-6	12-7	12-8	12-8	12-9	12-10	12-10	12-11	12-11	13-0
300.00	14-11	15-0	15-1	15-1	15-2	15-3	15-4	15-4	15-5	15-6
325.00	17-6	17-7	17-8	17-9	17-10	17-11	18-0	18-1	18-1	18-2
350.00	20-4	20-5	20-6	20-7	20-8	20-9	20-11	20-11	21-0	21-1
375.00	23-4	23-5	23-7	23-8	23-9	23-11	24-0	24-1	24-2	24-2
400.00	26-7	26-8	26-10	26-11	27-1	27-2	27-4	27-5	27-6	27-7
425.00	30-0	30-2	30-4	30-5	30-7	30-9	30-10	30-11	31-1	31-2
450.00	33-8	33-10	34-0	34-2	34-4	34-6	34-7	34-9	34-10	34-11
475.00	37-7	37-9	37-11	38-1	38-3	38-5	38-7	38-9	38-10	39-0
500.00	41-8	41-10	42-1	42-3	42-5	42-8	42-10	43-0	43-1	43-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.247

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-5	10-6	10-6	10-6	10-7	10-7	10-7	10-8	10-8	10-8
275.00	12-8	12-8	12-8	12-9	12-9	12-10	12-10	12-11	12-11	12-11
300.00	15-1	15-1	15-2	15-2	15-3	15-3	15-4	15-4	15-5	15-5
325.00	17-8	17-9	17-9	17-10	17-10	17-11	18-0	18-0	18-1	18-1
350.00	20-6	20-7	20-7	20-8	20-9	20-10	20-10	20-11	20-11	21-0
375.00	23-7	23-7	23-8	23-9	23-10	23-11	23-11	24-0	24-1	24-1
400.00	26-10	26-11	27-0	27-1	27-1	27-2	27-3	27-4	27-5	27-6
425.00	30-4	30-5	30-6	30-7	30-8	30-9	30-10	30-11	31-0	31-0
450.00	34-0	34-1	34-2	34-3	34-5	34-6	34-7	34-8	34-9	34-10
475.00	37-11	38-0	38-2	38-3	38-4	38-5	38-7	38-8	38-9	38-10
500.00	42-1	42-2	42-3	42-5	42-6	42-8	42-9	42-10	43-0	43-1
525.00	46-5	46-6	46-8	46-10	46-11	47-1	47-2	47-4	47-5	47-6
550.00	51-0	51-1	51-3	51-5	51-7	51-8	51-10	52-0	52-1	52-2
575.00	55-9	55-11	56-1	56-3	56-5	56-7	56-9	56-11	57-0	57-1
600.00	60-10	61-0	61-2	61-4	61-6	61-8	61-10	62-0	62-2	62-3
625.00	66-1	66-3	66-5	66-7	66-10	67-0	67-2	67-4	67-6	67-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-5	10-6	10-6	10-6	10-7	10-7	10-7	10-8	10-8	10-8
275.00	12-8	12-8	12-9	12-9	12-9	12-10	12-10	12-11	12-11	12-11
300.00	15-1	15-1	15-2	15-2	15-3	15-3	15-4	15-4	15-5	15-5
325.00	17-8	17-9	17-9	17-10	17-11	17-11	18-0	18-0	18-1	18-1
350.00	20-6	20-7	20-8	20-8	20-9	20-10	20-10	20-11	20-11	21-0
375.00	23-7	23-8	23-8	23-9	23-10	23-11	24-0	24-0	24-1	24-1
400.00	26-10	26-11	27-0	27-1	27-2	27-3	27-4	27-4	27-5	27-6
425.00	30-4	30-5	30-6	30-7	30-8	30-9	30-10	30-11	31-0	31-0
450.00	34-0	34-1	34-3	34-4	34-5	34-6	34-7	34-8	34-9	34-10
475.00	37-11	38-1	38-2	38-3	38-5	38-6	38-7	38-8	38-9	38-10
500.00	42-1	42-2	42-4	42-5	42-7	42-8	42-10	42-11	43-0	43-1
525.00	46-5	46-7	46-8	46-10	47-0	47-1	47-3	47-4	47-5	47-6
550.00	51-0	51-2	51-4	51-5	51-7	51-9	51-11	52-0	52-1	52-2
575.00	55-10	56-0	56-2	56-4	56-6	56-7	56-9	56-11	57-0	57-1
600.00	60-10	61-0	61-2	61-4	61-7	61-9	61-11	62-0	62-2	62-3
625.00	66-1	66-3	66-6	66-8	66-10	67-1	67-3	67-5	67-6	67-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.248

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	1.1	1500	1.1	1500*
0	0	0	0	0.52	0.49	1334	0.49	1334
30	0	0	0	0.52	0.92	707	0.87	750
40	0	0	0	0.52	1.07	606	1.01	642
50	0	0	0	0.52	1.22	534	1.15	564
60	0	0	0	0.52	1.36	480	1.29	505
70	0	0	0	0.52	1.48	438	1.42	460
80	0	0	0	0.52	1.6	407	1.54	424
90	0	0	0	0.52	1.67	390	1.65	395
100	0	0	0	0.52	1.74	374	1.74	374
110	0	0	0	0.52	1.8	361	1.8	361
120	0	0	0	0.52	1.87	348	1.87	348
130	0	0	0	0.52	1.93	337	1.93	337
167	0	0	0	0.52	2.16	302	2.16	302
212	0	0	0	0.52	2.41	271	2.41	271

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	4.4	1496	4.39	1500*
0	0	0	0	0.52	3.63	718	3.56	730
30	0	0	0	0.52	4.2	620	4.12	632
40	0	0	0	0.52	4.38	595	4.29	607
50	0	0	0	0.52	4.55	573	4.46	584
60	0	0	0	0.52	4.71	553	4.62	564
70	0	0	0	0.52	4.88	535	4.78	545
80	0	0	0	0.52	5.03	518	4.93	528
90	0	0	0	0.52	5.17	504	5.08	513
100	0	0	0	0.52	5.27	495	5.23	498
110	0	0	0	0.52	5.37	486	5.37	486
120	0	0	0	0.52	5.46	478	5.46	478
130	0	0	0	0.52	5.55	470	5.55	470
167	0	0	0	0.52	5.88	444	5.88	444
212	0	0	0	0.52	6.26	417	6.26	417

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	9.92	1497	9.9	1500*
0	0	0	0	0.52	9.15	642	9.08	647
30	0	0	0	0.52	9.71	605	9.62	610
40	0	0	0	0.52	9.89	594	9.8	600
50	0	0	0	0.52	10.07	583	9.97	589
60	0	0	0	0.52	10.25	574	10.14	579
70	0	0	0	0.52	10.42	564	10.31	570
80	0	0	0	0.52	10.59	555	10.48	561
90	0	0	0	0.52	10.76	547	10.64	552
100	0	0	0	0.52	10.87	541	10.8	544
110	0	0	0	0.52	10.98	536	10.96	536
120	0	0	0	0.52	11.09	530	11.09	530
130	0	0	0	0.52	11.19	526	11.19	526
167	0	0	0	0.52	11.57	508	11.57	508
212	0	0	0	0.52	12.02	490	12.02	490

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	17.68	1498	17.66	1500*
0	0	0	0	0.52	16.92	619	16.84	622
30	0	0	0	0.52	17.47	600	17.38	603
40	0	0	0	0.52	17.66	594	17.56	597
50	0	0	0	0.52	17.84	588	17.73	591
60	0	0	0	0.52	18.02	582	17.91	585
70	0	0	0	0.52	18.19	576	18.08	580
80	0	0	0	0.52	18.37	571	18.25	575
90	0	0	0	0.52	18.54	566	18.42	569
100	0	0	0	0.52	18.68	562	18.59	564
110	0	0	0	0.52	18.79	558	18.76	559
120	0	0	0	0.52	18.91	555	18.91	555
130	0	0	0	0.52	19.02	552	19.02	552
167	0	0	0	0.52	19.42	540	19.42	540
212	0	0	0	0.52	19.91	528	19.91	528

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	27.74	1499	27.72	1500*
0	0	0	0	0.52	26.98	609	26.9	611
30	0	0	0	0.52	27.53	597	27.44	599
40	0	0	0	0.52	27.72	594	27.62	596
50	0	0	0	0.52	27.9	590	27.79	592
60	0	0	0	0.52	28.08	586	27.97	588
70	0	0	0	0.52	28.26	582	28.14	585
80	0	0	0	0.52	28.44	579	28.32	581
90	0	0	0	0.52	28.61	575	28.49	578
100	0	0	0	0.52	28.76	573	28.66	574
110	0	0	0	0.52	28.87	570	28.83	571
120	0	0	0	0.52	28.99	568	28.99	568
130	0	0	0	0.52	29.11	566	29.11	566
167	0	0	0	0.52	29.53	558	29.53	558
212	0	0	0	0.52	30.04	549	30.04	549

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-0
100.00	0-9	0-10	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-10
125.00	1-2	1-4	1-7	1-10	2-0	2-3	2-5	2-7	2-9	2-10
150.00	1-8	1-11	2-3	2-7	2-11	3-2	3-5	3-9	3-11	4-1
175.00	2-3	2-8	3-1	3-6	3-11	4-4	4-8	5-1	5-4	5-6
200.00	2-11	3-6	4-1	4-7	5-2	5-8	6-2	6-7	7-0	7-3

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-0
100.00	0-9	0-11	1-1	1-3	1-4	1-6	1-7	1-8	1-9	1-10
125.00	1-2	1-5	1-8	1-11	2-1	2-4	2-6	2-7	2-9	2-10
150.00	1-9	2-1	2-5	2-9	3-1	3-4	3-7	3-9	3-11	4-1
175.00	2-4	2-10	3-3	3-9	4-2	4-7	4-11	5-1	5-4	5-6
200.00	3-1	3-8	4-4	4-11	5-5	5-11	6-5	6-8	7-0	7-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.252

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4
125.00	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-1	2-1
150.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0
175.00	3-0	3-2	3-3	3-5	3-6	3-8	3-9	3-11	4-0	4-1
200.00	3-11	4-1	4-3	4-6	4-7	4-9	4-11	5-1	5-3	5-4
225.00	5-0	5-3	5-5	5-8	5-10	6-1	6-3	6-5	6-7	6-10
250.00	6-2	6-5	6-8	7-0	7-3	7-6	7-9	7-11	8-2	8-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4
125.00	1-7	1-8	1-9	1-9	1-10	1-11	2-0	2-0	2-1	2-1
150.00	2-3	2-4	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-0
175.00	3-1	3-3	3-4	3-6	3-7	3-9	3-10	4-0	4-0	4-1
200.00	4-0	4-2	4-5	4-7	4-9	4-11	5-0	5-2	5-3	5-4
225.00	5-1	5-4	5-6	5-9	6-0	6-2	6-4	6-7	6-8	6-10
250.00	6-3	6-7	6-10	7-1	7-4	7-7	7-10	8-1	8-3	8-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.253

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-9
175.00	3-3	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-9
200.00	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-10
225.00	5-4	5-5	5-6	5-7	5-8	5-10	5-11	6-0	6-1	6-2
250.00	6-7	6-8	6-10	6-11	7-0	7-2	7-3	7-5	7-6	7-7
275.00	7-11	8-1	8-3	8-5	8-6	8-8	8-10	8-11	9-1	9-3
300.00	9-5	9-7	9-10	10-0	10-2	10-4	10-6	10-8	10-10	11-0
325.00	11-1	11-4	11-6	11-8	11-11	12-1	12-4	12-6	12-8	12-10
350.00	12-10	13-1	13-4	13-7	13-10	14-1	14-3	14-6	14-9	14-11
375.00	14-9	15-1	15-4	15-7	15-10	16-2	16-5	16-8	16-11	17-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-5	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-9	2-9
175.00	3-3	3-4	3-4	3-5	3-6	3-6	3-7	3-8	3-8	3-9
200.00	4-3	4-4	4-5	4-6	4-7	4-8	4-8	4-9	4-10	4-11
225.00	5-4	5-6	5-7	5-8	5-9	5-10	5-11	6-1	6-1	6-2
250.00	6-7	6-9	6-10	7-0	7-1	7-3	7-4	7-6	7-7	7-7
275.00	8-0	8-2	8-4	8-6	8-7	8-9	8-11	9-0	9-2	9-3
300.00	9-6	9-9	9-11	10-1	10-3	10-5	10-7	10-9	10-10	11-0
325.00	11-2	11-5	11-7	11-10	12-0	12-3	12-5	12-8	12-9	12-11
350.00	13-0	13-3	13-6	13-9	13-11	14-2	14-5	14-8	14-10	14-11
375.00	14-11	15-2	15-6	15-9	16-0	16-4	16-7	16-10	17-0	17-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.254

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8
225.00	5-5	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-10	5-11
250.00	6-9	6-9	6-10	6-11	7-0	7-1	7-1	7-2	7-3	7-4
275.00	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10
300.00	9-8	9-9	9-10	10-0	10-1	10-2	10-3	10-4	10-5	10-6
325.00	11-4	11-6	11-7	11-8	11-10	11-11	12-0	12-2	12-3	12-4
350.00	13-2	13-4	13-5	13-7	13-8	13-10	14-0	14-1	14-3	14-4
375.00	15-1	15-3	15-5	15-7	15-9	15-11	16-0	16-2	16-4	16-6
400.00	17-2	17-5	17-7	17-9	17-11	18-1	18-3	18-5	18-7	18-9
425.00	19-5	19-8	19-10	20-0	20-3	20-5	20-7	20-10	21-0	21-2
450.00	21-9	22-0	22-3	22-6	22-8	22-11	23-1	23-4	23-7	23-9
475.00	24-3	24-6	24-9	25-0	25-3	25-6	25-9	26-0	26-3	26-6
500.00	26-11	27-2	27-6	27-9	28-0	28-4	28-7	28-10	29-1	29-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-8	4-8	4-8
225.00	5-6	5-6	5-7	5-8	5-8	5-9	5-10	5-10	5-11	5-11
250.00	6-9	6-10	6-11	6-11	7-0	7-1	7-2	7-3	7-3	7-4
275.00	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-10
300.00	9-9	9-10	9-11	10-0	10-1	10-3	10-4	10-5	10-6	10-7
325.00	11-5	11-6	11-8	11-9	11-11	12-0	12-1	12-3	12-4	12-5
350.00	13-3	13-4	13-6	13-8	13-9	13-11	14-1	14-2	14-3	14-5
375.00	15-2	15-4	15-6	15-8	15-10	16-0	16-2	16-3	16-5	16-6
400.00	17-3	17-6	17-8	17-10	18-0	18-2	18-4	18-7	18-8	18-9
425.00	19-6	19-9	19-11	20-2	20-4	20-7	20-9	20-11	21-1	21-3
450.00	21-11	22-2	22-4	22-7	22-10	23-1	23-3	23-6	23-8	23-10
475.00	24-5	24-8	24-11	25-2	25-5	25-8	25-11	26-2	26-4	26-6
500.00	27-1	27-4	27-8	27-11	28-2	28-6	28-9	29-0	29-3	29-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.255

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-10	6-10	6-11	6-11	7-0	7-0	7-1	7-1	7-2	7-2
275.00	8-3	8-3	8-4	8-5	8-5	8-6	8-6	8-7	8-8	8-8
300.00	9-9	9-10	9-11	10-0	10-1	10-1	10-2	10-3	10-3	10-4
325.00	11-6	11-7	11-8	11-9	11-9	11-10	11-11	12-0	12-1	12-2
350.00	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-11	14-0	14-1
375.00	15-4	15-5	15-6	15-7	15-8	15-10	15-11	16-0	16-1	16-2
400.00	17-5	17-6	17-8	17-9	17-10	18-0	18-1	18-2	18-4	18-5
425.00	19-8	19-10	19-11	20-1	20-2	20-4	20-5	20-7	20-8	20-10
450.00	22-1	22-3	22-4	22-6	22-8	22-9	22-11	23-1	23-2	23-4
475.00	24-7	24-9	24-11	25-1	25-3	25-5	25-7	25-8	25-10	26-0
500.00	27-3	27-5	27-7	27-10	28-0	28-2	28-4	28-6	28-8	28-10
525.00	30-1	30-3	30-6	30-8	30-10	31-0	31-3	31-5	31-7	31-10
550.00	33-0	33-3	33-5	33-8	33-10	34-1	34-4	34-6	34-9	34-11
575.00	36-1	36-4	36-7	36-10	37-0	37-3	37-6	37-9	38-0	38-2
600.00	39-4	39-7	39-10	40-1	40-4	40-7	40-10	41-1	41-4	41-7
625.00	42-8	43-0	43-3	43-6	43-10	44-1	44-4	44-7	44-11	45-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-10	6-10	6-11	6-11	7-0	7-1	7-1	7-2	7-2	7-2
275.00	8-3	8-4	8-4	8-5	8-6	8-6	8-7	8-8	8-8	8-8
300.00	9-10	9-11	9-11	10-0	10-1	10-2	10-3	10-3	10-4	10-4
325.00	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-1	12-2
350.00	13-4	13-6	13-7	13-8	13-9	13-10	13-11	14-0	14-1	14-1
375.00	15-4	15-6	15-7	15-8	15-9	15-10	16-0	16-1	16-2	16-3
400.00	17-6	17-7	17-9	17-10	17-11	18-1	18-2	18-3	18-5	18-5
425.00	19-9	19-10	20-0	20-2	20-3	20-5	20-6	20-8	20-9	20-10
450.00	22-2	22-3	22-5	22-7	22-9	22-10	23-0	23-2	23-3	23-4
475.00	24-8	24-10	25-0	25-2	25-4	25-6	25-8	25-10	25-11	26-1
500.00	27-4	27-6	27-9	27-11	28-1	28-3	28-5	28-7	28-9	28-10
525.00	30-2	30-4	30-7	30-9	31-0	31-2	31-4	31-7	31-9	31-10
550.00	33-1	33-4	33-7	33-9	34-0	34-3	34-5	34-8	34-10	35-0
575.00	36-3	36-6	36-8	36-11	37-2	37-5	37-8	37-11	38-1	38-3
600.00	39-5	39-9	40-0	40-3	40-6	40-9	41-0	41-3	41-6	41-8
625.00	42-10	43-1	43-5	43-8	44-0	44-3	44-6	44-10	45-1	45-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.256

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	0.82	1998	0.82	2000*
0	0	0	0	0.52	0.3	2159	0.3	2159
30	0	0	0	0.52	0.55	1185	0.5	1291
40	0	0	0	0.52	0.69	944	0.62	1055
50	0	0	0	0.52	0.84	771	0.75	867
60	0	0	0	0.52	1	650	0.89	727
70	0	0	0	0.52	1.15	566	1.04	625
80	0	0	0	0.52	1.29	504	1.18	551
90	0	0	0	0.52	1.37	473	1.31	495
100	0	0	0	0.52	1.45	449	1.44	452
110	0	0	0	0.52	1.52	427	1.52	427
120	0	0	0	0.52	1.6	408	1.6	408
130	0	0	0	0.52	1.67	391	1.67	391
167	0	0	0	0.52	1.91	341	1.91	341
212	0	0	0	0.52	2.18	299	2.18	299

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	3.32	1984	3.29	2000*
0	0	0	0	0.52	2.18	1194	2.08	1253
30	0	0	0	0.52	2.91	896	2.75	945
40	0	0	0	0.52	3.13	831	2.97	875
50	0	0	0	0.52	3.35	777	3.19	817
60	0	0	0	0.52	3.56	732	3.39	768
70	0	0	0	0.52	3.76	693	3.59	725
80	0	0	0	0.52	3.95	659	3.78	689
90	0	0	0	0.52	4.14	630	3.96	657
100	0	0	0	0.52	4.27	611	4.14	629
110	0	0	0	0.52	4.37	596	4.32	603
120	0	0	0	0.52	4.48	581	4.48	581
130	0	0	0	0.52	4.59	568	4.59	568
167	0	0	0	0.52	4.96	525	4.96	525
212	0	0	0	0.52	5.39	484	5.39	484

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.257

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	7.45	1989	7.41	2000*
0	0	0	0	0.52	6.26	936	6.11	960
30	0	0	0	0.52	7.02	836	6.84	857
40	0	0	0	0.52	7.25	808	7.07	829
50	0	0	0	0.52	7.49	783	7.3	803
60	0	0	0	0.52	7.71	760	7.52	780
70	0	0	0	0.52	7.93	739	7.74	758
80	0	0	0	0.52	8.15	720	7.95	738
90	0	0	0	0.52	8.36	702	8.16	719
100	0	0	0	0.52	8.56	685	8.36	702
110	0	0	0	0.52	8.69	675	8.56	685
120	0	0	0	0.52	8.82	666	8.76	670
130	0	0	0	0.52	8.95	656	8.95	656
167	0	0	0	0.52	9.4	625	9.4	625
212	0	0	0	0.52	9.93	592	9.93	592

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	13.25	1993	13.2	2000*
0	0	0	0	0.52	12.05	866	11.89	878
30	0	0	0	0.52	12.8	816	12.62	827
40	0	0	0	0.52	13.05	801	12.85	812
50	0	0	0	0.52	13.28	786	13.09	798
60	0	0	0	0.52	13.52	773	13.31	785
70	0	0	0	0.52	13.75	760	13.54	772
80	0	0	0	0.52	13.98	748	13.76	759
90	0	0	0	0.52	14.2	736	13.98	747
100	0	0	0	0.52	14.42	725	14.2	736
110	0	0	0	0.52	14.58	717	14.41	725
120	0	0	0	0.52	14.72	710	14.62	715
130	0	0	0	0.52	14.86	704	14.83	705
167	0	0	0	0.52	15.36	681	15.36	681
212	0	0	0	0.52	15.95	656	15.95	656

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.258

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	20.73	1995	20.68	2000*
0	0	0	0	0.52	19.54	837	19.37	844
30	0	0	0	0.52	20.28	807	20.09	814
40	0	0	0	0.52	20.52	797	20.33	805
50	0	0	0	0.52	20.76	788	20.56	796
60	0	0	0	0.52	21	779	20.79	787
70	0	0	0	0.52	21.24	771	21.02	778
80	0	0	0	0.52	21.47	762	21.25	770
90	0	0	0	0.52	21.7	754	21.48	762
100	0	0	0	0.52	21.93	747	21.7	755
110	0	0	0	0.52	22.12	740	21.92	747
120	0	0	0	0.52	22.27	736	22.14	740
130	0	0	0	0.52	22.41	731	22.36	733
167	0	0	0	0.52	22.95	714	22.95	714
212	0	0	0	0.52	23.58	695	23.58	695

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.259

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10
100.00	0-5	0-6	0-7	0-9	0-11	1-0	1-2	1-4	1-5	1-6
125.00	0-8	0-9	1-0	1-2	1-5	1-7	1-10	2-1	2-3	2-5
150.00	0-11	1-2	1-5	1-8	2-0	2-4	2-8	2-11	3-3	3-5
175.00	1-3	1-7	1-11	2-4	2-9	3-2	3-7	4-0	4-5	4-8
200.00	1-8	2-0	2-6	3-0	3-7	4-2	4-9	5-3	5-9	6-1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9	0-10	0-10
100.00	0-5	0-7	0-8	0-10	1-0	1-2	1-3	1-4	1-5	1-6
125.00	0-8	0-10	1-1	1-4	1-7	1-10	2-0	2-2	2-3	2-5
150.00	1-0	1-3	1-7	1-11	2-3	2-7	2-11	3-1	3-3	3-5
175.00	1-4	1-8	2-1	2-7	3-1	3-6	3-11	4-3	4-5	4-8
200.00	1-9	2-2	2-9	3-4	4-0	4-7	5-2	5-6	5-10	6-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.260

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1
125.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8
150.00	1-5	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-4	2-5
175.00	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-2	3-4
200.00	2-6	2-9	3-0	3-2	3-5	3-7	3-9	4-0	4-2	4-4
225.00	3-2	3-6	3-9	4-0	4-4	4-7	4-9	5-0	5-3	5-6
250.00	3-11	4-4	4-8	5-0	5-4	5-7	5-11	6-2	6-6	6-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1
125.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-8
150.00	1-6	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-6
175.00	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-2	3-3	3-4
200.00	2-8	2-11	3-2	3-4	3-7	3-9	3-11	4-2	4-3	4-4
225.00	3-5	3-8	4-0	4-3	4-6	4-9	5-0	5-3	5-5	5-6
250.00	4-2	4-6	4-11	5-3	5-7	5-10	6-2	6-6	6-8	6-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.261

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-0	2-1	2-2
175.00	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9	2-10	2-11
200.00	2-11	3-0	3-2	3-3	3-4	3-5	3-6	3-7	3-9	3-10
225.00	3-9	3-10	4-0	4-1	4-3	4-4	4-6	4-7	4-8	4-10
250.00	4-7	4-9	4-11	5-1	5-3	5-4	5-6	5-8	5-10	5-11
275.00	5-7	5-9	5-11	6-2	6-4	6-6	6-8	6-10	7-0	7-2
300.00	6-7	6-10	7-1	7-4	7-6	7-9	7-11	8-2	8-4	8-7
325.00	7-9	8-0	8-4	8-7	8-10	9-1	9-4	9-7	9-10	10-1
350.00	9-0	9-4	9-8	9-11	10-3	10-6	10-10	11-1	11-5	11-8
375.00	10-4	10-8	11-1	11-5	11-9	12-1	12-5	12-9	13-1	13-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-8	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-2	2-2
175.00	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10	2-11	2-11
200.00	3-0	3-1	3-3	3-4	3-5	3-6	3-7	3-9	3-10	3-10
225.00	3-10	3-11	4-1	4-3	4-4	4-6	4-7	4-8	4-10	4-11
250.00	4-8	4-10	5-0	5-2	5-4	5-6	5-8	5-10	5-11	6-0
275.00	5-8	5-11	6-1	6-3	6-6	6-8	6-10	7-0	7-2	7-4
300.00	6-9	7-0	7-3	7-6	7-9	7-11	8-2	8-4	8-7	8-8
325.00	7-11	8-3	8-6	8-9	9-1	9-4	9-7	9-10	10-1	10-2
350.00	9-3	9-7	9-11	10-2	10-6	10-10	11-1	11-5	11-8	11-10
375.00	10-7	11-0	11-4	11-8	12-1	12-5	12-9	13-1	13-5	13-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.262

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-1	3-2	3-3	3-3	3-4	3-5	3-5	3-6	3-7	3-7
225.00	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-6	4-7
250.00	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7
275.00	5-10	6-0	6-1	6-2	6-3	6-5	6-6	6-7	6-8	6-10
300.00	7-0	7-1	7-3	7-4	7-6	7-7	7-9	7-10	8-0	8-1
325.00	8-2	8-4	8-6	8-8	8-9	8-11	9-1	9-3	9-4	9-6
350.00	9-6	9-8	9-10	10-0	10-2	10-4	10-6	10-8	10-10	11-0
375.00	10-11	11-1	11-4	11-6	11-8	11-11	12-1	12-3	12-6	12-8
400.00	12-5	12-7	12-10	13-1	13-4	13-6	13-9	14-0	14-2	14-5
425.00	14-0	14-3	14-6	14-9	15-0	15-3	15-6	15-9	16-0	16-3
450.00	15-8	16-0	16-3	16-7	16-10	17-2	17-5	17-8	18-0	18-3
475.00	17-6	17-10	18-2	18-6	18-9	19-1	19-5	19-9	20-0	20-4
500.00	19-4	19-9	20-1	20-6	20-10	21-2	21-6	21-10	22-2	22-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-2	3-2	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8
225.00	4-0	4-1	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-7
250.00	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-8	5-8
275.00	5-11	6-1	6-2	6-3	6-5	6-6	6-7	6-8	6-10	6-11
300.00	7-1	7-2	7-4	7-6	7-7	7-9	7-10	8-0	8-1	8-2
325.00	8-3	8-5	8-7	8-9	8-11	9-1	9-3	9-4	9-6	9-7
350.00	9-7	9-10	10-0	10-2	10-4	10-6	10-8	10-10	11-0	11-2
375.00	11-0	11-3	11-6	11-8	11-11	12-1	12-3	12-6	12-8	12-10
400.00	12-7	12-10	13-1	13-3	13-6	13-9	14-0	14-2	14-5	14-7
425.00	14-2	14-5	14-9	15-0	15-3	15-6	15-9	16-0	16-3	16-6
450.00	15-11	16-3	16-6	16-10	17-1	17-5	17-8	18-0	18-3	18-6
475.00	17-9	18-1	18-5	18-9	19-1	19-5	19-9	20-0	20-4	20-7
500.00	19-8	20-0	20-5	20-9	21-2	21-6	21-10	22-2	22-7	22-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.263

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-11	5-0	5-1	5-2	5-2	5-3	5-4	5-4	5-5	5-6
275.00	6-0	6-1	6-2	6-3	6-3	6-4	6-5	6-6	6-7	6-7
300.00	7-2	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11
325.00	8-5	8-6	8-7	8-8	8-9	8-10	9-0	9-1	9-2	9-3
350.00	9-9	9-10	9-11	10-1	10-2	10-3	10-5	10-6	10-7	10-9
375.00	11-2	11-3	11-5	11-7	11-8	11-10	11-11	12-1	12-2	12-4
400.00	12-8	12-10	13-0	13-2	13-4	13-5	13-7	13-9	13-11	14-0
425.00	14-4	14-6	14-8	14-10	15-0	15-2	15-4	15-6	15-8	15-10
450.00	16-1	16-3	16-5	16-8	16-10	17-0	17-2	17-5	17-7	17-9
475.00	17-11	18-2	18-4	18-7	18-9	19-0	19-2	19-5	19-7	19-9
500.00	19-10	20-1	20-4	20-7	20-10	21-0	21-3	21-6	21-8	21-11
525.00	21-11	22-2	22-5	22-8	22-11	23-2	23-5	23-8	23-11	24-2
550.00	24-0	24-4	24-7	24-11	25-2	25-5	25-9	26-0	26-3	26-6
575.00	26-3	26-7	26-11	27-3	27-6	27-10	28-2	28-5	28-9	29-0
600.00	28-7	28-11	29-4	29-8	30-0	30-4	30-8	31-0	31-3	31-7
625.00	31-1	31-5	31-10	32-2	32-6	32-11	33-3	33-7	33-11	34-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-0	5-1	5-1	5-2	5-3	5-4	5-4	5-5	5-6	5-6
275.00	6-1	6-2	6-2	6-3	6-4	6-5	6-6	6-7	6-7	6-8
300.00	7-2	7-3	7-5	7-6	7-7	7-8	7-9	7-10	7-11	7-11
325.00	8-5	8-7	8-8	8-9	8-10	9-0	9-1	9-2	9-3	9-4
350.00	9-10	9-11	10-1	10-2	10-3	10-5	10-6	10-7	10-9	10-10
375.00	11-3	11-5	11-6	11-8	11-10	11-11	12-1	12-2	12-4	12-5
400.00	12-10	13-0	13-1	13-3	13-5	13-7	13-9	13-11	14-0	14-2
425.00	14-6	14-8	14-10	15-0	15-2	15-4	15-6	15-8	15-10	16-0
450.00	16-3	16-5	16-7	16-10	17-0	17-2	17-5	17-7	17-9	17-11
475.00	18-1	18-4	18-6	18-9	18-11	19-2	19-4	19-7	19-9	19-11
500.00	20-0	20-3	20-6	20-9	21-0	21-3	21-6	21-8	21-11	22-1
525.00	22-1	22-4	22-8	22-11	23-2	23-5	23-8	23-11	24-2	24-5
550.00	24-3	24-7	24-10	25-2	25-5	25-9	26-0	26-3	26-7	26-9
575.00	26-6	26-10	27-2	27-6	27-10	28-1	28-5	28-9	29-0	29-3
600.00	28-11	29-3	29-7	29-11	30-3	30-7	30-11	31-3	31-7	31-11
625.00	31-4	31-9	32-1	32-6	32-10	33-3	33-7	33-11	34-4	34-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.264

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	0.67	2458	0.66	2500*
0	0	0	0	0.52	0.23	2823	0.23	2823
30	0	0	0	0.52	0.38	1719	0.34	1901
40	0	0	0	0.52	0.47	1380	0.41	1604
50	0	0	0	0.52	0.59	1095	0.49	1326
60	0	0	0	0.52	0.74	878	0.6	1083
70	0	0	0	0.52	0.9	725	0.73	888
80	0	0	0	0.52	1.05	618	0.88	742
90	0	0	0	0.52	1.14	568	1.02	636
100	0	0	0	0.52	1.22	533	1.16	558
110	0	0	0	0.52	1.3	501	1.3	501
120	0	0	0	0.52	1.37	474	1.37	474
130	0	0	0	0.52	1.45	450	1.45	450
167	0	0	0	0.52	1.71	381	1.71	381
212	0	0	0	0.52	2	326	2	326

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	2.67	2460	2.63	2500*
0	0	0	0	0.52	1.36	1916	1.28	2032
30	0	0	0	0.52	2.05	1269	1.85	1408
40	0	0	0	0.52	2.3	1131	2.07	1256
50	0	0	0	0.52	2.55	1022	2.3	1131
60	0	0	0	0.52	2.79	934	2.53	1029
70	0	0	0	0.52	3.02	863	2.75	945
80	0	0	0	0.52	3.24	804	2.97	875
90	0	0	0	0.52	3.45	754	3.19	817
100	0	0	0	0.52	3.62	719	3.39	767
110	0	0	0	0.52	3.73	697	3.59	725
120	0	0	0	0.52	3.85	677	3.78	688
130	0	0	0	0.52	3.96	657	3.96	657
167	0	0	0	0.52	4.37	596	4.37	596
212	0	0	0	0.52	4.83	539	4.83	539

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.265

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.314	5.99	2473	5.92	2500*
0	0	0	0	0.52	4.35	1347	4.11	1424
30	0	0	0	0.52	5.27	1111	4.98	1175
40	0	0	0	0.52	5.56	1054	5.26	1113
50	0	0	0	0.52	5.84	1003	5.54	1058
60	0	0	0	0.52	6.11	959	5.81	1009
70	0	0	0	0.52	6.38	919	6.07	966
80	0	0	0	0.52	6.63	884	6.32	927
90	0	0	0	0.52	6.88	852	6.57	892
100	0	0	0	0.52	7.12	823	6.81	861
110	0	0	0	0.52	7.31	802	7.04	832
120	0	0	0	0.52	7.45	787	7.27	806
130	0	0	0	0.52	7.59	773	7.5	782
167	0	0	0	0.52	8.09	725	8.09	725
212	0	0	0	0.52	8.68	676	8.68	676

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.314	10.62	2482	10.54	2500*
0	0	0	0	0.52	8.93	1167	8.65	1205
30	0	0	0	0.52	9.87	1056	9.56	1090
40	0	0	0	0.52	10.17	1025	9.85	1058
50	0	0	0	0.52	10.46	997	10.14	1028
60	0	0	0	0.52	10.75	970	10.42	1001
70	0	0	0	0.52	11.03	946	10.69	975
80	0	0	0	0.52	11.3	923	10.97	951
90	0	0	0	0.52	11.57	902	11.23	929
100	0	0	0	0.52	11.83	882	11.49	908
110	0	0	0	0.52	12.09	863	11.75	888
120	0	0	0	0.52	12.26	852	12	870
130	0	0	0	0.52	12.41	841	12.25	852
167	0	0	0	0.52	12.98	804	12.98	804
212	0	0	0	0.52	13.66	765	13.66	765

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.266

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	16.59	2487	16.5	2500*
0	0	0	0	0.52	14.88	1096	14.59	1117
30	0	0	0	0.52	15.82	1031	15.5	1052
40	0	0	0	0.52	16.12	1012	15.8	1033
50	0	0	0	0.52	16.42	994	16.09	1014
60	0	0	0	0.52	16.71	977	16.37	997
70	0	0	0	0.52	17	960	16.66	980
80	0	0	0	0.52	17.29	945	16.94	964
90	0	0	0	0.52	17.57	930	17.21	949
100	0	0	0	0.52	17.84	915	17.48	934
110	0	0	0	0.52	18.12	902	17.75	920
120	0	0	0	0.52	18.33	891	18.02	907
130	0	0	0	0.52	18.5	883	18.28	894
167	0	0	0	0.52	19.12	855	19.12	855
212	0	0	0	0.52	19.85	824	19.85	824

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9
100.00	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-0	1-2	1-4
125.00	0-6	0-6	0-8	0-9	0-11	1-2	1-4	1-7	1-10	2-0
150.00	0-8	0-9	0-11	1-1	1-4	1-8	2-0	2-4	2-7	2-11
175.00	0-11	1-1	1-3	1-6	1-10	2-3	2-8	3-2	3-7	4-0
200.00	1-2	1-4	1-7	2-0	2-5	2-11	3-6	4-1	4-8	5-2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9
100.00	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-3	1-4
125.00	0-6	0-7	0-9	0-11	1-2	1-5	1-8	1-9	1-11	2-0
150.00	0-8	0-10	1-1	1-4	1-8	2-0	2-4	2-7	2-9	2-11
175.00	0-11	1-2	1-5	1-10	2-3	2-9	3-3	3-6	3-9	4-0
200.00	1-3	1-6	1-11	2-4	3-0	3-7	4-2	4-7	4-11	5-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.268

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11
125.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
150.00	0-11	1-0	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-0
175.00	1-3	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9
200.00	1-8	1-10	2-1	2-4	2-6	2-9	3-0	3-2	3-5	3-7
225.00	2-1	2-4	2-7	2-11	3-2	3-6	3-9	4-0	4-4	4-7
250.00	2-7	2-11	3-3	3-7	3-11	4-4	4-8	5-0	5-4	5-7

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11
125.00	0-8	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
150.00	1-0	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-0	2-1
175.00	1-5	1-7	1-9	1-11	2-2	2-4	2-6	2-8	2-9	2-10
200.00	1-10	2-1	2-4	2-7	2-9	3-0	3-3	3-5	3-7	3-9
225.00	2-3	2-7	2-11	3-3	3-6	3-10	4-1	4-4	4-7	4-9
250.00	2-10	3-2	3-7	4-0	4-4	4-9	5-1	5-5	5-8	5-10

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STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.269

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-8	1-9
175.00	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-4	2-5
200.00	2-1	2-3	2-4	2-6	2-7	2-8	2-10	2-11	3-0	3-2
225.00	2-8	2-10	3-0	3-1	3-3	3-5	3-7	3-8	3-10	4-0
250.00	3-3	3-6	3-8	3-10	4-0	4-3	4-5	4-7	4-9	4-11
275.00	3-11	4-2	4-5	4-8	4-11	5-1	5-4	5-6	5-9	5-11
300.00	4-8	5-0	5-3	5-6	5-10	6-1	6-4	6-7	6-10	7-1
325.00	5-6	5-10	6-2	6-6	6-10	7-1	7-5	7-9	8-0	8-3
350.00	6-5	6-9	7-2	7-6	7-11	8-3	8-7	8-11	9-3	9-7
375.00	7-4	7-9	8-3	8-8	9-1	9-6	9-11	10-3	10-8	11-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-9	1-10
175.00	1-8	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6
200.00	2-3	2-4	2-6	2-7	2-9	2-10	2-11	3-1	3-2	3-3
225.00	2-10	3-0	3-2	3-3	3-5	3-7	3-9	3-10	4-0	4-1
250.00	3-5	3-8	3-10	4-1	4-3	4-5	4-7	4-9	4-11	5-1
275.00	4-2	4-5	4-8	4-11	5-2	5-4	5-7	5-9	6-0	6-2
300.00	5-0	5-3	5-7	5-10	6-1	6-5	6-8	6-11	7-1	7-4
325.00	5-10	6-2	6-6	6-10	7-2	7-6	7-9	8-1	8-4	8-7
350.00	6-9	7-2	7-7	7-11	8-4	8-8	9-0	9-4	9-8	9-11
375.00	7-9	8-3	8-8	9-2	9-7	10-0	10-4	10-9	11-2	11-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.270

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-4	2-5	2-6	2-6	2-7	2-8	2-9	2-10	2-10	2-11
225.00	2-11	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9
250.00	3-7	3-9	3-10	4-0	4-1	4-2	4-3	4-5	4-6	4-7
275.00	4-5	4-6	4-8	4-9	4-11	5-1	5-2	5-4	5-5	5-7
300.00	5-3	5-5	5-6	5-8	5-10	6-0	6-2	6-4	6-6	6-7
325.00	6-1	6-4	6-6	6-8	6-11	7-1	7-3	7-5	7-7	7-9
350.00	7-1	7-4	7-7	7-9	8-0	8-2	8-5	8-7	8-10	9-0
375.00	8-2	8-5	8-8	8-11	9-2	9-5	9-8	9-10	10-1	10-4
400.00	9-3	9-7	9-10	10-2	10-5	10-8	11-0	11-3	11-6	11-9
425.00	10-5	10-10	11-1	11-5	11-9	12-1	12-5	12-8	13-0	13-3
450.00	11-9	12-1	12-6	12-10	13-2	13-6	13-11	14-3	14-7	14-10
475.00	13-1	13-6	13-11	14-4	14-8	15-1	15-6	15-10	16-3	16-7
500.00	14-6	14-11	15-5	15-10	16-3	16-9	17-2	17-7	18-0	18-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-5	2-6	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0
225.00	3-0	3-1	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10
250.00	3-9	3-10	4-0	4-1	4-2	4-4	4-5	4-6	4-7	4-9
275.00	4-6	4-8	4-10	4-11	5-1	5-3	5-4	5-6	5-7	5-9
300.00	5-5	5-7	5-9	5-11	6-1	6-2	6-4	6-6	6-8	6-10
325.00	6-4	6-6	6-9	6-11	7-1	7-3	7-5	7-8	7-10	8-0
350.00	7-4	7-7	7-9	8-0	8-3	8-5	8-8	8-10	9-1	9-3
375.00	8-5	8-8	8-11	9-2	9-5	9-8	9-11	10-2	10-5	10-8
400.00	9-7	9-10	10-2	10-6	10-9	11-0	11-4	11-7	11-10	12-1
425.00	10-10	11-2	11-6	11-10	12-2	12-5	12-9	13-1	13-4	13-8
450.00	12-1	12-6	12-10	13-3	13-7	14-0	14-4	14-8	15-0	15-4
475.00	13-6	13-11	14-4	14-9	15-2	15-7	15-11	16-4	16-8	17-1
500.00	14-11	15-5	15-11	16-4	16-10	17-3	17-8	18-1	18-6	18-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.271

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-10	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-4	4-5
275.00	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-4
300.00	5-6	5-7	5-8	5-9	5-11	6-0	6-1	6-2	6-3	6-5
325.00	6-5	6-7	6-8	6-9	6-11	7-0	7-2	7-3	7-5	7-6
350.00	7-5	7-7	7-9	7-11	8-0	8-2	8-4	8-5	8-7	8-8
375.00	8-7	8-9	8-11	9-1	9-2	9-4	9-6	9-8	9-10	10-0
400.00	9-9	9-11	10-1	10-3	10-6	10-8	10-10	11-0	11-2	11-4
425.00	11-0	11-2	11-5	11-7	11-10	12-0	12-3	12-5	12-8	12-10
450.00	12-4	12-7	12-10	13-0	13-3	13-6	13-9	13-11	14-2	14-4
475.00	13-9	14-0	14-3	14-6	14-9	15-0	15-3	15-6	15-9	16-0
500.00	15-2	15-6	15-10	16-1	16-4	16-8	16-11	17-3	17-6	17-9
525.00	16-9	17-1	17-5	17-9	18-1	18-4	18-8	19-0	19-3	19-7
550.00	18-5	18-9	19-1	19-6	19-10	20-2	20-6	20-10	21-2	21-6
575.00	20-1	20-6	20-11	21-3	21-8	22-0	22-5	22-9	23-2	23-6
600.00	21-11	22-4	22-9	23-2	23-7	24-0	24-5	24-10	25-2	25-7
625.00	23-9	24-3	24-8	25-2	25-7	26-1	26-6	26-11	27-4	27-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-5	4-6
275.00	4-8	4-9	4-10	5-0	5-1	5-2	5-3	5-4	5-5	5-6
300.00	5-7	5-8	5-10	5-11	6-0	6-1	6-3	6-4	6-5	6-6
325.00	6-7	6-8	6-10	6-11	7-1	7-2	7-4	7-5	7-6	7-8
350.00	7-7	7-9	7-11	8-0	8-2	8-4	8-6	8-7	8-9	8-10
375.00	8-9	8-11	9-1	9-3	9-5	9-7	9-9	9-10	10-0	10-2
400.00	9-11	10-1	10-4	10-6	10-8	10-11	11-1	11-3	11-5	11-7
425.00	11-2	11-5	11-8	11-10	12-1	12-3	12-6	12-8	12-11	13-1
450.00	12-7	12-10	13-1	13-4	13-6	13-9	14-0	14-3	14-5	14-8
475.00	14-0	14-3	14-7	14-10	15-1	15-4	15-7	15-10	16-1	16-4
500.00	15-6	15-10	16-1	16-5	16-9	17-0	17-3	17-7	17-10	18-1
525.00	17-1	17-5	17-9	18-1	18-5	18-9	19-1	19-4	19-8	20-0
550.00	18-9	19-2	19-6	19-11	20-3	20-7	20-11	21-3	21-7	21-11
575.00	20-6	20-11	21-4	21-9	22-1	22-6	22-10	23-3	23-7	24-0
600.00	22-4	22-10	23-3	23-8	24-1	24-6	24-11	25-4	25-9	26-1
625.00	24-3	24-9	25-3	25-8	26-2	26-7	27-0	27-6	27-11	28-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.272

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	0.57	2867	0.55	3000*
0	0	0	0	0.52	0.19	3405	0.19	3405
30	0	0	0	0.52	0.3	2194	0.26	2487
40	0	0	0	0.52	0.36	1815	0.3	2176
50	0	0	0	0.52	0.44	1466	0.35	1869
60	0	0	0	0.52	0.56	1164	0.41	1571
70	0	0	0	0.52	0.7	929	0.5	1295
80	0	0	0	0.52	0.86	760	0.62	1056
90	0	0	0	0.52	0.95	686	0.75	867
100	0	0	0	0.52	1.02	638	0.9	726
110	0	0	0	0.52	1.09	594	1.04	624
120	0	0	0	0.52	1.17	556	1.17	556
130	0	0	0	0.52	1.24	522	1.24	523
167	0	0	0	0.52	1.52	428	1.52	428
212	0	0	0	0.52	1.83	356	1.83	356

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	2.26	2909	2.19	3000*
0	0	0	0	0.52	0.98	2666	0.92	2816
30	0	0	0	0.52	1.5	1738	1.29	2015
40	0	0	0	0.52	1.72	1509	1.46	1780
50	0	0	0	0.52	1.97	1322	1.65	1572
60	0	0	0	0.52	2.22	1173	1.87	1393
70	0	0	0	0.52	2.46	1055	2.09	1243
80	0	0	0	0.52	2.71	961	2.32	1120
90	0	0	0	0.52	2.94	885	2.55	1019
100	0	0	0	0.52	3.13	832	2.78	936
110	0	0	0	0.52	3.25	801	3	868
120	0	0	0	0.52	3.37	773	3.21	810
130	0	0	0	0.52	3.49	747	3.42	762
167	0	0	0	0.52	3.91	666	3.91	666
212	0	0	0	0.52	4.4	591	4.4	592

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.273

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	5.03	2941	4.93	3000*
0	0	0	0	0.52	3.05	1920	2.79	2100
30	0	0	0	0.52	4.02	1456	3.63	1614
40	0	0	0	0.52	4.34	1348	3.92	1492
50	0	0	0	0.52	4.66	1256	4.22	1387
60	0	0	0	0.52	4.97	1179	4.52	1296
70	0	0	0	0.52	5.27	1112	4.81	1217
80	0	0	0	0.52	5.56	1054	5.1	1149
90	0	0	0	0.52	5.84	1004	5.38	1090
100	0	0	0	0.52	6.11	959	5.65	1037
110	0	0	0	0.52	6.34	924	5.91	991
120	0	0	0	0.52	6.49	903	6.17	949
130	0	0	0	0.52	6.64	883	6.43	912
167	0	0	0	0.52	7.18	817	7.17	817
212	0	0	0	0.52	7.81	751	7.8	752

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	8.9	2960	8.78	3000*
0	0	0	0	0.52	6.69	1556	6.28	1659
30	0	0	0	0.52	7.79	1336	7.32	1422
40	0	0	0	0.52	8.14	1279	7.66	1359
50	0	0	0	0.52	8.49	1228	8	1303
60	0	0	0	0.52	8.82	1182	8.32	1252
70	0	0	0	0.52	9.14	1140	8.64	1205
80	0	0	0	0.52	9.46	1102	8.96	1163
90	0	0	0	0.52	9.77	1067	9.26	1125
100	0	0	0	0.52	10.07	1036	9.56	1090
110	0	0	0	0.52	10.36	1006	9.86	1058
120	0	0	0	0.52	10.59	985	10.15	1028
130	0	0	0	0.52	10.76	969	10.43	1000
167	0	0	0	0.52	11.39	916	11.38	917
212	0	0	0	0.52	12.12	861	12.11	862

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.314	13.86	2972	13.73	3000*
0	0	0	0	0.52	11.59	1405	11.13	1462
30	0	0	0	0.52	12.72	1281	12.22	1333
40	0	0	0	0.52	13.08	1246	12.57	1296
50	0	0	0	0.52	13.43	1214	12.92	1261
60	0	0	0	0.52	13.77	1183	13.26	1229
70	0	0	0	0.52	14.11	1155	13.59	1199
80	0	0	0	0.52	14.44	1129	13.92	1171
90	0	0	0	0.52	14.77	1104	14.24	1145
100	0	0	0	0.52	15.09	1081	14.56	1120
110	0	0	0	0.52	15.4	1059	14.87	1097
120	0	0	0	0.52	15.71	1038	15.18	1075
130	0	0	0	0.52	15.9	1026	15.48	1054
167	0	0	0	0.52	16.59	984	16.56	986
212	0	0	0	0.52	17.4	938	17.39	939

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.275

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7
100.00	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-1
125.00	0-4	0-5	0-6	0-7	0-8	0-9	1-0	1-2	1-5	1-8
150.00	0-6	0-7	0-8	0-9	0-11	1-2	1-5	1-8	2-0	2-4
175.00	0-9	0-10	0-11	1-1	1-3	1-6	1-11	2-4	2-9	3-2
200.00	0-11	1-1	1-2	1-5	1-8	2-0	2-6	3-0	3-7	4-2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-4	0-5	0-6	0-6	0-7	0-7
100.00	0-3	0-4	0-4	0-5	0-7	0-8	0-10	0-11	1-0	1-1
125.00	0-5	0-6	0-7	0-8	0-10	1-1	1-4	1-6	1-7	1-9
150.00	0-7	0-8	0-10	1-0	1-3	1-7	1-11	2-2	2-4	2-6
175.00	0-9	0-11	1-1	1-4	1-9	2-2	2-7	2-11	3-1	3-4
200.00	1-0	1-2	1-5	1-9	2-3	2-10	3-5	3-9	4-1	4-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.276

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-8	0-9
125.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
150.00	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-5	1-7	1-8
175.00	0-11	1-0	1-1	1-3	1-5	1-7	1-9	1-11	2-2	2-4
200.00	1-2	1-3	1-6	1-8	1-10	2-1	2-4	2-7	2-9	3-0
225.00	1-5	1-8	1-10	2-1	2-4	2-8	2-11	3-3	3-6	3-10
250.00	1-9	2-0	2-3	2-7	2-11	3-3	3-8	4-0	4-4	4-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10
125.00	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-3
150.00	0-9	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-9	1-10
175.00	1-0	1-2	1-4	1-6	1-8	1-11	2-1	2-3	2-5	2-6
200.00	1-4	1-6	1-9	2-0	2-3	2-6	2-8	2-11	3-2	3-3
225.00	1-8	1-11	2-2	2-6	2-10	3-1	3-5	3-9	4-0	4-1
250.00	2-0	2-4	2-8	3-1	3-6	3-10	4-3	4-7	4-11	5-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.277

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6
175.00	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0
200.00	1-6	1-7	1-9	1-11	2-0	2-2	2-3	2-5	2-6	2-8
225.00	1-11	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4
250.00	2-4	2-6	2-9	2-11	3-2	3-4	3-6	3-9	3-11	4-1
275.00	2-10	3-1	3-4	3-7	3-10	4-0	4-3	4-6	4-9	5-0
300.00	3-4	3-8	3-11	4-3	4-6	4-10	5-1	5-5	5-8	5-11
325.00	3-11	4-3	4-7	4-11	5-4	5-8	6-0	6-4	6-8	6-11
350.00	4-6	4-11	5-4	5-9	6-2	6-7	6-11	7-4	7-8	8-1
375.00	5-3	5-8	6-2	6-7	7-1	7-6	8-0	8-5	8-10	9-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-6	1-7
175.00	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2
200.00	1-8	1-9	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-10
225.00	2-1	2-3	2-5	2-7	2-10	3-0	3-1	3-3	3-5	3-7
250.00	2-7	2-10	3-0	3-3	3-5	3-8	3-10	4-1	4-3	4-5
275.00	3-1	3-5	3-8	3-11	4-2	4-5	4-8	4-11	5-2	5-4
300.00	3-8	4-0	4-4	4-8	5-0	5-3	5-7	5-10	6-1	6-4
325.00	4-4	4-9	5-1	5-6	5-10	6-2	6-6	6-10	7-2	7-5
350.00	5-0	5-6	5-11	6-4	6-9	7-2	7-7	7-11	8-4	8-8
375.00	5-9	6-3	6-9	7-3	7-9	8-3	8-8	9-1	9-7	9-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.278

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6
225.00	2-2	2-4	2-5	2-6	2-8	2-9	2-10	2-11	3-0	3-1
250.00	2-9	2-10	3-0	3-1	3-3	3-5	3-6	3-7	3-9	3-10
275.00	3-4	3-6	3-7	3-9	3-11	4-1	4-3	4-5	4-6	4-8
300.00	3-11	4-1	4-4	4-6	4-8	4-10	5-0	5-3	5-5	5-7
325.00	4-7	4-10	5-1	5-3	5-6	5-8	5-11	6-1	6-4	6-6
350.00	5-4	5-7	5-10	6-1	6-4	6-7	6-10	7-1	7-4	7-7
375.00	6-2	6-5	6-9	7-0	7-4	7-7	7-10	8-2	8-5	8-8
400.00	7-0	7-4	7-8	8-0	8-4	8-8	8-11	9-3	9-7	9-10
425.00	7-11	8-3	8-8	9-0	9-5	9-9	10-1	10-6	10-10	11-2
450.00	8-10	9-3	9-8	10-1	10-6	10-11	11-4	11-9	12-1	12-6
475.00	9-10	10-4	10-10	11-3	11-9	12-2	12-8	13-1	13-6	13-11
500.00	10-11	11-5	12-0	12-6	13-0	13-6	14-0	14-6	14-11	15-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
225.00	2-4	2-6	2-7	2-8	2-9	2-11	3-0	3-1	3-2	3-3
250.00	2-11	3-1	3-2	3-4	3-5	3-7	3-8	3-10	3-11	4-1
275.00	3-6	3-8	3-10	4-0	4-2	4-4	4-6	4-7	4-9	4-11
300.00	4-2	4-5	4-7	4-9	5-0	5-2	5-4	5-6	5-8	5-10
325.00	4-11	5-2	5-5	5-7	5-10	6-0	6-3	6-5	6-8	6-10
350.00	5-8	6-0	6-3	6-6	6-9	7-0	7-3	7-6	7-8	7-11
375.00	6-6	6-10	7-2	7-5	7-9	8-0	8-4	8-7	8-10	9-1
400.00	7-5	7-10	8-2	8-6	8-10	9-2	9-5	9-9	10-1	10-4
425.00	8-5	8-10	9-2	9-7	9-11	10-4	10-8	11-0	11-4	11-8
450.00	9-5	9-10	10-4	10-9	11-2	11-7	12-0	12-4	12-9	13-1
475.00	10-6	11-0	11-6	12-0	12-5	12-11	13-4	13-9	14-2	14-7
500.00	11-7	12-2	12-9	13-3	13-9	14-3	14-9	15-3	15-9	16-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.279

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
275.00	3-7	3-8	3-10	3-11	4-0	4-1	4-2	4-4	4-5	4-6
300.00	4-3	4-5	4-6	4-8	4-9	4-11	5-0	5-1	5-3	5-4
325.00	5-0	5-2	5-4	5-5	5-7	5-9	5-11	6-0	6-2	6-3
350.00	5-10	6-0	6-2	6-4	6-6	6-8	6-10	7-0	7-2	7-3
375.00	6-8	6-10	7-1	7-3	7-5	7-8	7-10	8-0	8-2	8-4
400.00	7-7	7-10	8-1	8-3	8-6	8-8	8-11	9-1	9-4	9-6
425.00	8-7	8-10	9-1	9-4	9-7	9-10	10-1	10-3	10-6	10-9
450.00	9-7	9-11	10-2	10-6	10-9	11-0	11-3	11-6	11-9	12-0
475.00	10-9	11-0	11-4	11-8	12-0	12-3	12-7	12-10	13-2	13-5
500.00	11-10	12-3	12-7	12-11	13-3	13-7	13-11	14-3	14-7	14-10
525.00	13-1	13-6	13-10	14-3	14-7	15-0	15-4	15-8	16-1	16-5
550.00	14-4	14-10	15-3	15-8	16-1	16-5	16-10	17-3	17-7	18-0
575.00	15-8	16-2	16-8	17-1	17-6	18-0	18-5	18-10	19-3	19-8
600.00	17-1	17-7	18-1	18-7	19-1	19-7	20-1	20-6	21-0	21-5
625.00	18-7	19-1	19-8	20-2	20-9	21-3	21-9	22-3	22-9	23-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10
275.00	3-9	3-10	3-11	4-1	4-2	4-3	4-4	4-6	4-7	4-8
300.00	4-5	4-7	4-8	4-10	4-11	5-1	5-2	5-4	5-5	5-6
325.00	5-3	5-4	5-6	5-8	5-10	6-0	6-1	6-3	6-4	6-6
350.00	6-1	6-3	6-5	6-7	6-9	6-11	7-1	7-3	7-5	7-7
375.00	6-11	7-2	7-4	7-7	7-9	7-11	8-1	8-4	8-6	8-8
400.00	7-11	8-2	8-4	8-7	8-10	9-0	9-3	9-5	9-8	9-10
425.00	8-11	9-2	9-5	9-8	9-11	10-2	10-5	10-8	10-11	11-2
450.00	10-0	10-4	10-7	10-11	11-2	11-5	11-8	12-0	12-3	12-6
475.00	11-2	11-6	11-10	12-1	12-5	12-9	13-0	13-4	13-7	13-11
500.00	12-4	12-9	13-1	13-5	13-9	14-1	14-5	14-9	15-1	15-5
525.00	13-7	14-0	14-5	14-10	15-2	15-7	15-11	16-3	16-8	17-0
550.00	14-11	15-5	15-10	16-3	16-8	17-1	17-6	17-11	18-3	18-8
575.00	16-4	16-10	17-4	17-9	18-3	18-8	19-1	19-6	20-0	20-5
600.00	17-10	18-4	18-10	19-4	19-10	20-4	20-10	21-3	21-9	22-2
625.00	19-4	19-11	20-5	21-0	21-6	22-1	22-7	23-1	23-7	24-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.280

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	2.66	1000	2.66	1000*
20	0	0	0	0.52	2.27	287	2.25	289
30	0	0	0	0.52	2.36	276	2.34	278
40	0	0	0	0.52	2.44	267	2.42	269
50	0	0	0	0.52	2.52	259	2.5	260
60	0	0	0	0.52	2.6	251	2.58	253
70	0	0	0	0.52	2.67	244	2.65	246
80	0	0	0	0.52	2.72	240	2.72	240
90	0	0	0	0.52	2.77	236	2.77	236
100	0	0	0	0.52	2.81	232	2.81	232
110	0	0	0	0.52	2.86	228	2.86	228
120	0	0	0	0.52	2.9	225	2.9	225
130	0	0	0	0.52	2.95	221	2.95	221
167	0	0	0	0.52	3.11	210	3.11	210
212	0	0	0	0.52	3.3	198	3.3	198

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	10.72	1000	10.72	1000*
20	0	0	0	0.52	10.35	254	10.33	254
30	0	0	0	0.52	10.43	252	10.42	252
40	0	0	0	0.52	10.51	250	10.49	251
50	0	0	0	0.52	10.59	248	10.57	249
60	0	0	0	0.52	10.66	247	10.64	247
70	0	0	0	0.52	10.73	245	10.72	245
80	0	0	0	0.52	10.79	244	10.79	244
90	0	0	0	0.52	10.84	243	10.84	243
100	0	0	0	0.52	10.89	242	10.89	242
110	0	0	0	0.52	10.94	241	10.94	241
120	0	0	0	0.52	10.98	240	10.98	240
130	0	0	0	0.52	11.03	239	11.03	239
167	0	0	0	0.52	11.21	235	11.21	235
212	0	0	0	0.52	11.43	230	11.43	230

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.281

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	24.49	1000	24.49	1000*
20	0	0	0	0.52	24.12	249	24.1	249
30	0	0	0	0.52	24.2	248	24.19	248
40	0	0	0	0.52	24.28	247	24.26	247
50	0	0	0	0.52	24.35	247	24.33	247
60	0	0	0	0.52	24.43	246	24.41	246
70	0	0	0	0.52	24.5	245	24.48	245
80	0	0	0	0.52	24.55	245	24.55	245
90	0	0	0	0.52	24.6	244	24.6	244
100	0	0	0	0.52	24.65	244	24.65	244
110	0	0	0	0.52	24.7	243	24.7	243
120	0	0	0	0.52	24.75	243	24.75	243
130	0	0	0	0.52	24.8	242	24.8	242
167	0	0	0	0.52	24.99	241	24.99	241
212	0	0	0	0.52	25.21	239	25.21	239

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	44.51	1000	44.51	1000*
20	0	0	0	0.52	44.15	247	44.12	247
30	0	0	0	0.52	44.22	247	44.21	247
40	0	0	0	0.52	44.3	246	44.28	246
50	0	0	0	0.52	44.38	246	44.36	246
60	0	0	0	0.52	44.45	246	44.43	246
70	0	0	0	0.52	44.52	245	44.51	245
80	0	0	0	0.52	44.58	245	44.58	245
90	0	0	0	0.52	44.63	245	44.63	245
100	0	0	0	0.52	44.68	244	44.68	244
110	0	0	0	0.52	44.73	244	44.73	244
120	0	0	0	0.52	44.78	244	44.78	244
130	0	0	0	0.52	44.83	244	44.83	244
167	0	0	0	0.52	45.01	243	45.01	243
212	0	0	0	0.52	45.24	242	45.24	242

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	71.75	1000	71.75	1000*
20	0	0	0	0.52	71.38	246	71.36	246
30	0	0	0	0.52	71.46	246	71.45	246
40	0	0	0	0.52	71.54	246	71.52	246
50	0	0	0	0.52	71.61	246	71.59	246
60	0	0	0	0.52	71.69	245	71.67	245
70	0	0	0	0.52	71.76	245	71.74	245
80	0	0	0	0.52	71.81	245	71.81	245
90	0	0	0	0.52	71.86	245	71.86	245
100	0	0	0	0.52	71.91	245	71.91	245
110	0	0	0	0.52	71.96	245	71.96	245
120	0	0	0	0.52	72.01	245	72.01	245
130	0	0	0	0.52	72.06	244	72.06	244
167	0	0	0	0.52	72.25	244	72.25	244
212	0	0	0	0.52	72.47	243	72.47	243

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.283

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-7
100.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-9	2-10	2-10
125.00	3-6	3-8	3-9	3-11	4-0	4-2	4-3	4-4	4-5	4-6
150.00	5-1	5-3	5-6	5-8	5-10	6-0	6-1	6-3	6-4	6-5
175.00	6-11	7-2	7-5	7-8	7-11	8-2	8-4	8-6	8-8	8-9
200.00	9-0	9-5	9-9	10-0	10-4	10-8	10-11	11-1	11-3	11-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-4	1-4	1-5	1-6	1-6	1-6	1-7	1-7	1-7
100.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-9	2-10	2-10
125.00	3-7	3-8	3-10	3-11	4-1	4-2	4-3	4-4	4-5	4-6
150.00	5-1	5-4	5-6	5-8	5-10	6-0	6-1	6-3	6-4	6-5
175.00	7-0	7-3	7-6	7-9	8-0	8-2	8-4	8-6	8-8	8-9
200.00	9-1	9-5	9-9	10-1	10-5	10-8	10-11	11-1	11-3	11-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.284

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-7	2-7	2-7	2-8	2-8	2-8	2-8	2-8	2-9	2-9
125.00	4-0	4-1	4-1	4-1	4-2	4-2	4-2	4-3	4-3	4-3
150.00	5-10	5-10	5-11	5-11	6-0	6-0	6-1	6-1	6-1	6-2
175.00	7-11	8-0	8-0	8-1	8-2	8-2	8-3	8-3	8-4	8-4
200.00	10-4	10-5	10-6	10-7	10-8	10-9	10-9	10-10	10-11	10-11
225.00	13-1	13-2	13-4	13-5	13-6	13-7	13-8	13-9	13-9	13-10
250.00	16-2	16-4	16-5	16-7	16-8	16-9	16-11	17-0	17-1	17-1

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-7	2-7	2-7	2-8	2-8	2-8	2-8	2-8	2-9	2-9
125.00	4-0	4-1	4-1	4-2	4-2	4-2	4-2	4-3	4-3	4-3
150.00	5-10	5-10	5-11	5-11	6-0	6-0	6-1	6-1	6-1	6-2
175.00	7-11	8-0	8-0	8-1	8-2	8-3	8-3	8-3	8-4	8-4
200.00	10-4	10-5	10-6	10-7	10-8	10-9	10-9	10-10	10-11	10-11
225.00	13-1	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-9	13-10
250.00	16-3	16-4	16-5	16-7	16-8	16-10	16-11	17-0	17-1	17-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.285

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-0	6-0	6-0	6-1	6-1	6-1	6-1	6-1	6-1	6-2
175.00	8-2	8-2	8-3	8-3	8-3	8-3	8-4	8-4	8-4	8-4
200.00	10-8	10-8	10-9	10-9	10-10	10-10	10-10	10-11	10-11	10-11
225.00	13-6	13-7	13-7	13-8	13-8	13-9	13-9	13-9	13-10	13-10
250.00	16-8	16-9	16-10	16-10	16-11	16-11	17-0	17-0	17-1	17-1
275.00	20-3	20-4	20-4	20-5	20-6	20-7	20-7	20-8	20-8	20-9
300.00	24-1	24-2	24-3	24-4	24-5	24-6	24-7	24-7	24-8	24-8
325.00	28-4	28-5	28-6	28-7	28-8	28-9	28-10	28-11	29-0	29-0
350.00	32-11	33-0	33-1	33-3	33-4	33-5	33-6	33-7	33-8	33-9
375.00	37-10	38-0	38-1	38-2	38-4	38-5	38-7	38-8	38-9	38-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-0	6-0	6-0	6-1	6-1	6-1	6-1	6-1	6-1	6-2
175.00	8-2	8-2	8-3	8-3	8-3	8-3	8-4	8-4	8-4	8-4
200.00	10-8	10-8	10-9	10-9	10-10	10-10	10-10	10-11	10-11	10-11
225.00	13-6	13-7	13-7	13-8	13-8	13-9	13-9	13-9	13-10	13-10
250.00	16-9	16-9	16-10	16-10	16-11	17-0	17-0	17-0	17-1	17-1
275.00	20-3	20-4	20-4	20-5	20-6	20-7	20-7	20-8	20-8	20-9
300.00	24-1	24-2	24-3	24-4	24-5	24-6	24-7	24-7	24-8	24-8
325.00	28-4	28-5	28-6	28-7	28-9	28-10	28-10	28-11	29-0	29-0
350.00	32-11	33-0	33-2	33-3	33-4	33-5	33-6	33-7	33-8	33-9
375.00	37-10	38-0	38-1	38-3	38-4	38-6	38-7	38-8	38-9	38-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.286

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-11	10-11	10-11	10-11	11-0	11-0	11-0	11-0	11-0	11-1
225.00	13-10	13-10	13-10	13-11	13-11	13-11	13-11	14-0	14-0	14-0
250.00	17-1	17-1	17-2	17-2	17-2	17-3	17-3	17-3	17-3	17-4
275.00	20-8	20-9	20-9	20-9	20-10	20-10	20-11	20-11	20-11	21-0
300.00	24-8	24-8	24-9	24-9	24-10	24-10	24-11	24-11	24-11	25-0
325.00	29-0	29-0	29-1	29-2	29-2	29-3	29-3	29-4	29-4	29-4
350.00	33-8	33-9	33-9	33-10	33-11	33-11	34-0	34-0	34-1	34-1
375.00	38-8	38-9	38-10	38-11	39-0	39-0	39-1	39-2	39-2	39-3
400.00	44-1	44-3	44-3	44-4	44-5	44-6	44-7	44-8	44-8	44-9
425.00	49-11	50-0	50-1	50-2	50-3	50-4	50-5	50-6	50-6	50-7
450.00	56-1	56-2	56-3	56-5	56-6	56-7	56-8	56-9	56-9	56-10
475.00	62-7	62-9	62-10	63-0	63-1	63-2	63-3	63-4	63-5	63-6
500.00	69-7	69-8	69-10	69-11	70-1	70-2	70-3	70-4	70-5	70-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-11	10-11	10-11	11-0	11-0	11-0	11-0	11-0	11-0	11-1
225.00	13-10	13-10	13-10	13-11	13-11	13-11	13-11	14-0	14-0	14-0
250.00	17-1	17-1	17-2	17-2	17-2	17-3	17-3	17-3	17-3	17-4
275.00	20-8	20-9	20-9	20-10	20-10	20-10	20-11	20-11	20-11	21-0
300.00	24-8	24-8	24-9	24-9	24-10	24-10	24-11	24-11	24-11	25-0
325.00	29-0	29-0	29-1	29-2	29-2	29-3	29-3	29-4	29-4	29-4
350.00	33-8	33-9	33-10	33-10	33-11	34-0	34-0	34-0	34-1	34-1
375.00	38-9	38-10	38-10	38-11	39-0	39-1	39-1	39-2	39-2	39-3
400.00	44-2	44-3	44-4	44-5	44-5	44-6	44-7	44-8	44-8	44-9
425.00	49-11	50-0	50-1	50-2	50-3	50-4	50-5	50-6	50-6	50-7
450.00	56-1	56-2	56-4	56-5	56-6	56-7	56-8	56-9	56-9	56-10
475.00	62-8	62-9	62-11	63-0	63-1	63-2	63-3	63-4	63-5	63-6
500.00	69-7	69-9	69-10	69-11	70-1	70-2	70-3	70-4	70-5	70-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.287

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	17-6	17-6	17-6	17-7	17-7	17-7	17-7	17-7	17-8	17-8
275.00	21-2	21-3	21-3	21-3	21-3	21-4	21-4	21-4	21-4	21-5
300.00	25-3	25-4	25-4	25-4	25-5	25-5	25-5	25-5	25-6	25-6
325.00	29-8	29-9	29-9	29-10	29-10	29-10	29-11	29-11	29-11	29-11
350.00	34-6	34-7	34-7	34-7	34-8	34-8	34-9	34-9	34-9	34-10
375.00	39-8	39-9	39-9	39-10	39-10	39-11	39-11	40-0	40-0	40-0
400.00	45-3	45-4	45-4	45-5	45-5	45-6	45-6	45-7	45-7	45-7
425.00	51-2	51-3	51-4	51-4	51-5	51-6	51-6	51-7	51-7	51-7
450.00	57-6	57-7	57-8	57-8	57-9	57-10	57-11	57-11	58-0	58-0
475.00	64-3	64-4	64-5	64-5	64-6	64-7	64-8	64-8	64-9	64-9
500.00	71-4	71-5	71-6	71-7	71-8	71-9	71-10	71-10	71-11	72-0
525.00	78-11	79-0	79-1	79-2	79-3	79-4	79-5	79-5	79-6	79-7
550.00	86-10	86-11	87-0	87-1	87-2	87-3	87-4	87-5	87-6	87-7
575.00	95-2	95-3	95-4	95-6	95-7	95-8	95-9	95-10	95-11	96-0
600.00	103-11	104-1	104-2	104-3	104-5	104-6	104-7	104-8	104-9	104-10
625.00	113-1	113-3	113-5	113-6	113-7	113-9	113-10	113-11	114-0	114-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	17-6	17-6	17-6	17-7	17-7	17-7	17-7	17-7	17-8	17-8
275.00	21-3	21-3	21-3	21-3	21-4	21-4	21-4	21-4	21-4	21-5
300.00	25-3	25-4	25-4	25-4	25-5	25-5	25-5	25-5	25-6	25-6
325.00	29-9	29-9	29-9	29-10	29-10	29-10	29-11	29-11	29-11	29-11
350.00	34-6	34-7	34-7	34-8	34-8	34-8	34-9	34-9	34-9	34-10
375.00	39-8	39-9	39-9	39-10	39-10	39-11	39-11	40-0	40-0	40-0
400.00	45-3	45-4	45-4	45-5	45-5	45-6	45-6	45-7	45-7	45-7
425.00	51-3	51-3	51-4	51-4	51-5	51-6	51-6	51-7	51-7	51-7
450.00	57-6	57-7	57-8	57-9	57-9	57-10	57-11	57-11	58-0	58-0
475.00	64-3	64-4	64-5	64-6	64-6	64-7	64-8	64-8	64-9	64-9
500.00	71-5	71-6	71-6	71-7	71-8	71-9	71-10	71-10	71-11	72-0
525.00	78-11	79-0	79-1	79-2	79-3	79-4	79-5	79-5	79-6	79-7
550.00	86-10	86-11	87-0	87-1	87-3	87-4	87-4	87-5	87-6	87-7
575.00	95-2	95-4	95-5	95-6	95-7	95-8	95-9	95-10	95-11	96-0
600.00	104-0	104-1	104-2	104-4	104-5	104-6	104-7	104-8	104-9	104-10
625.00	113-2	113-3	113-5	113-6	113-8	113-9	113-10	113-11	114-0	114-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.288

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	1.77	1500	1.77	1500*
20	0	0	0	0.52	1.04	625	1.01	646
30	0	0	0	0.52	1.19	548	1.15	567
40	0	0	0	0.52	1.33	490	1.28	508
50	0	0	0	0.52	1.46	447	1.41	462
60	0	0	0	0.52	1.58	412	1.53	426
70	0	0	0	0.52	1.69	384	1.64	396
80	0	0	0	0.52	1.79	364	1.75	372
90	0	0	0	0.52	1.86	351	1.85	351
100	0	0	0	0.52	1.92	339	1.92	339
110	0	0	0	0.52	1.98	328	1.98	328
120	0	0	0	0.52	2.05	318	2.05	318
130	0	0	0	0.52	2.1	309	2.1	309
167	0	0	0	0.52	2.31	281	2.31	281
212	0	0	0	0.52	2.55	255	2.55	255

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	7.1	1500	7.1	1500*
20	0	0	0	0.52	6.43	406	6.4	408
30	0	0	0	0.52	6.56	398	6.52	401
40	0	0	0	0.52	6.68	391	6.63	394
50	0	0	0	0.52	6.79	384	6.75	387
60	0	0	0	0.52	6.91	378	6.86	381
70	0	0	0	0.52	7.03	372	6.97	375
80	0	0	0	0.52	7.13	367	7.08	369
90	0	0	0	0.52	7.2	363	7.19	363
100	0	0	0	0.52	7.28	359	7.28	359
110	0	0	0	0.52	7.35	356	7.35	356
120	0	0	0	0.52	7.42	352	7.42	352
130	0	0	0	0.52	7.49	349	7.49	349
167	0	0	0	0.52	7.74	338	7.74	338
212	0	0	0	0.52	8.05	325	8.05	325

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.289

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	16.08	1500	16.08	1500*
20	0	0	0	0.52	15.43	383	15.39	384
30	0	0	0	0.52	15.54	380	15.5	381
40	0	0	0	0.52	15.66	378	15.62	379
50	0	0	0	0.52	15.78	375	15.73	376
60	0	0	0	0.52	15.89	372	15.84	373
70	0	0	0	0.52	16.01	370	15.95	371
80	0	0	0	0.52	16.11	367	16.06	368
90	0	0	0	0.52	16.18	366	16.17	366
100	0	0	0	0.52	16.26	364	16.26	364
110	0	0	0	0.52	16.33	362	16.33	362
120	0	0	0	0.52	16.41	361	16.41	361
130	0	0	0	0.52	16.48	359	16.48	359
167	0	0	0	0.52	16.75	354	16.75	354
212	0	0	0	0.52	17.07	347	17.07	347

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	28.86	1500	28.86	1500*
20	0	0	0	0.52	28.21	376	28.17	377
30	0	0	0	0.52	28.32	375	28.28	375
40	0	0	0	0.52	28.44	373	28.39	374
50	0	0	0	0.52	28.55	372	28.51	372
60	0	0	0	0.52	28.67	370	28.62	371
70	0	0	0	0.52	28.78	369	28.73	369
80	0	0	0	0.52	28.88	368	28.84	368
90	0	0	0	0.52	28.96	367	28.95	367
100	0	0	0	0.52	29.04	366	29.04	366
110	0	0	0	0.52	29.11	365	29.11	365
120	0	0	0	0.52	29.19	364	29.19	364
130	0	0	0	0.52	29.26	363	29.26	363
167	0	0	0	0.52	29.54	360	29.54	360
212	0	0	0	0.52	29.87	356	29.87	356

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.290

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	45.65	1500	45.65	1500*
20	0	0	0	0.52	45	373	44.96	373
30	0	0	0	0.52	45.11	372	45.07	372
40	0	0	0	0.52	45.23	371	45.18	371
50	0	0	0	0.52	45.34	370	45.29	371
60	0	0	0	0.52	45.45	369	45.41	370
70	0	0	0	0.52	45.57	368	45.52	369
80	0	0	0	0.52	45.67	368	45.63	368
90	0	0	0	0.52	45.75	367	45.74	367
100	0	0	0	0.52	45.82	367	45.82	367
110	0	0	0	0.52	45.9	366	45.9	366
120	0	0	0	0.52	45.98	365	45.98	365
130	0	0	0	0.52	46.05	365	46.05	365
167	0	0	0	0.52	46.33	363	46.33	363
212	0	0	0	0.52	46.66	360	46.66	360

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-1	1-1
100.00	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-10	1-11	2-0
125.00	1-7	1-10	2-0	2-2	2-5	2-7	2-9	2-11	3-0	3-1
150.00	2-3	2-7	2-11	3-2	3-5	3-8	3-11	4-2	4-4	4-6
175.00	3-1	3-6	3-11	4-4	4-8	5-0	5-4	5-8	5-11	6-1
200.00	4-0	4-7	5-2	5-8	6-1	6-7	7-0	7-5	7-8	7-11

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-1
100.00	1-0	1-2	1-4	1-5	1-7	1-8	1-9	1-10	1-11	2-0
125.00	1-8	1-10	2-1	2-3	2-6	2-8	2-10	2-11	3-0	3-1
150.00	2-4	2-8	3-0	3-3	3-7	3-10	4-0	4-2	4-4	4-6
175.00	3-2	3-8	4-1	4-6	4-10	5-2	5-6	5-8	5-11	6-1
200.00	4-2	4-9	5-4	5-10	6-4	6-9	7-2	7-5	7-8	7-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-7	1-8	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10
125.00	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-10
150.00	3-7	3-8	3-9	3-10	3-10	3-11	4-0	4-1	4-1	4-2
175.00	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-7
200.00	6-5	6-6	6-8	6-9	6-10	7-0	7-1	7-2	7-3	7-4
225.00	8-1	8-3	8-5	8-7	8-8	8-10	9-0	9-1	9-3	9-4
250.00	10-0	10-2	10-4	10-7	10-9	10-11	11-1	11-3	11-5	11-6

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-7	1-8	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10
125.00	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-10
150.00	3-7	3-8	3-9	3-10	3-11	3-11	4-0	4-1	4-1	4-2
175.00	4-11	5-0	5-1	5-2	5-3	5-5	5-5	5-6	5-7	5-7
200.00	6-5	6-7	6-8	6-10	6-11	7-0	7-2	7-2	7-3	7-4
225.00	8-2	8-4	8-5	8-7	8-9	8-11	9-0	9-1	9-3	9-4
250.00	10-1	10-3	10-5	10-8	10-10	11-0	11-2	11-3	11-5	11-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-10	3-10	3-11	3-11	3-11	4-0	4-0	4-0	4-1	4-1
175.00	5-3	5-3	5-4	5-4	5-5	5-5	5-5	5-6	5-6	5-7
200.00	6-10	6-11	6-11	7-0	7-0	7-1	7-1	7-2	7-3	7-3
225.00	8-8	8-8	8-9	8-10	8-11	9-0	9-0	9-1	9-2	9-2
250.00	10-8	10-9	10-10	10-11	11-0	11-1	11-2	11-3	11-3	11-4
275.00	12-11	13-0	13-1	13-3	13-4	13-5	13-6	13-7	13-8	13-9
300.00	15-5	15-6	15-7	15-9	15-10	15-11	16-1	16-2	16-3	16-4
325.00	18-1	18-2	18-4	18-6	18-7	18-9	18-10	19-0	19-1	19-2
350.00	21-0	21-2	21-3	21-5	21-7	21-9	21-11	22-1	22-2	22-3
375.00	24-1	24-3	24-5	24-8	24-10	25-0	25-2	25-4	25-6	25-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-10	3-11	3-11	3-11	4-0	4-0	4-0	4-0	4-1	4-1
175.00	5-3	5-3	5-4	5-4	5-5	5-5	5-6	5-6	5-6	5-7
200.00	6-10	6-11	6-11	7-0	7-1	7-1	7-2	7-2	7-3	7-3
225.00	8-8	8-9	8-10	8-10	8-11	9-0	9-1	9-1	9-2	9-2
250.00	10-8	10-9	10-10	10-11	11-0	11-1	11-2	11-3	11-3	11-4
275.00	12-11	13-1	13-2	13-3	13-4	13-5	13-6	13-7	13-8	13-9
300.00	15-5	15-7	15-8	15-9	15-11	16-0	16-1	16-2	16-3	16-4
325.00	18-1	18-3	18-5	18-6	18-8	18-10	18-11	19-0	19-1	19-2
350.00	21-0	21-2	21-4	21-6	21-8	21-10	21-11	22-1	22-2	22-3
375.00	24-2	24-4	24-6	24-8	24-11	25-1	25-3	25-4	25-6	25-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.294

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-0	7-0	7-1	7-1	7-1	7-2	7-2	7-2	7-3	7-3
225.00	8-10	8-11	8-11	9-0	9-0	9-1	9-1	9-1	9-2	9-2
250.00	11-0	11-0	11-1	11-1	11-2	11-2	11-3	11-3	11-4	11-4
275.00	13-3	13-4	13-4	13-5	13-6	13-6	13-7	13-8	13-8	13-9
300.00	15-10	15-10	15-11	16-0	16-1	16-1	16-2	16-3	16-3	16-4
325.00	18-7	18-8	18-8	18-9	18-10	18-11	19-0	19-1	19-1	19-2
350.00	21-6	21-7	21-8	21-9	21-11	22-0	22-1	22-2	22-2	22-3
375.00	24-9	24-10	24-11	25-0	25-2	25-3	25-4	25-5	25-6	25-7
400.00	28-2	28-3	28-5	28-6	28-7	28-9	28-10	28-11	29-0	29-1
425.00	31-10	31-11	32-1	32-2	32-4	32-6	32-7	32-9	32-10	32-11
450.00	35-9	35-10	36-0	36-2	36-3	36-5	36-7	36-8	36-10	36-11
475.00	39-10	40-0	40-2	40-4	40-6	40-7	40-9	40-11	41-1	41-2
500.00	44-2	44-4	44-6	44-8	44-11	45-1	45-3	45-5	45-7	45-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-0	7-1	7-1	7-1	7-2	7-2	7-2	7-2	7-3	7-3
225.00	8-11	8-11	8-11	9-0	9-0	9-1	9-1	9-1	9-2	9-2
250.00	11-0	11-0	11-1	11-1	11-2	11-2	11-3	11-3	11-4	11-4
275.00	13-3	13-4	13-5	13-5	13-6	13-7	13-7	13-8	13-8	13-9
300.00	15-10	15-11	15-11	16-0	16-1	16-2	16-2	16-3	16-3	16-4
325.00	18-7	18-8	18-9	18-10	18-11	18-11	19-0	19-1	19-1	19-2
350.00	21-7	21-8	21-9	21-10	21-11	22-0	22-1	22-2	22-2	22-3
375.00	24-9	24-10	25-0	25-1	25-2	25-3	25-4	25-5	25-6	25-7
400.00	28-2	28-4	28-5	28-7	28-8	28-9	28-11	28-11	29-0	29-1
425.00	31-10	32-0	32-2	32-3	32-5	32-6	32-8	32-9	32-10	32-11
450.00	35-9	35-11	36-1	36-2	36-4	36-6	36-7	36-9	36-10	36-11
475.00	39-11	40-1	40-3	40-4	40-6	40-8	40-10	40-11	41-1	41-2
500.00	44-3	44-5	44-7	44-9	45-0	45-2	45-4	45-5	45-7	45-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.295

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-2	11-2	11-2	11-3	11-3	11-3	11-4	11-4	11-4	11-5
275.00	13-6	13-6	13-7	13-7	13-8	13-8	13-8	13-9	13-9	13-9
300.00	16-1	16-1	16-2	16-2	16-3	16-3	16-4	16-4	16-5	16-5
325.00	18-11	18-11	19-0	19-0	19-1	19-1	19-2	19-2	19-3	19-3
350.00	21-11	22-0	22-0	22-1	22-2	22-2	22-3	22-3	22-4	22-4
375.00	25-2	25-3	25-4	25-4	25-5	25-6	25-7	25-7	25-8	25-8
400.00	28-8	28-9	28-10	28-11	28-11	29-0	29-1	29-2	29-3	29-3
425.00	32-5	32-6	32-7	32-8	32-8	32-9	32-10	32-11	33-0	33-1
450.00	36-4	36-5	36-6	36-7	36-8	36-10	36-11	37-0	37-0	37-1
475.00	40-6	40-8	40-9	40-10	40-11	41-0	41-2	41-3	41-4	41-5
500.00	45-0	45-1	45-2	45-4	45-5	45-6	45-8	45-9	45-10	45-11
525.00	49-7	49-9	49-10	50-0	50-1	50-3	50-4	50-6	50-7	50-8
550.00	54-6	54-8	54-10	54-11	55-1	55-2	55-4	55-6	55-7	55-8
575.00	59-8	59-10	60-0	60-1	60-3	60-5	60-7	60-8	60-10	60-11
600.00	65-1	65-2	65-4	65-6	65-8	65-10	66-0	66-2	66-4	66-5
625.00	70-8	70-10	71-0	71-2	71-5	71-7	71-9	71-11	72-1	72-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-2	11-2	11-3	11-3	11-3	11-4	11-4	11-4	11-4	11-5
275.00	13-6	13-7	13-7	13-7	13-8	13-8	13-9	13-9	13-9	13-9
300.00	16-1	16-2	16-2	16-3	16-3	16-3	16-4	16-4	16-5	16-5
325.00	18-11	18-11	19-0	19-0	19-1	19-2	19-2	19-2	19-3	19-3
350.00	21-11	22-0	22-0	22-1	22-2	22-2	22-3	22-3	22-4	22-4
375.00	25-2	25-3	25-4	25-5	25-5	25-6	25-7	25-7	25-8	25-8
400.00	28-8	28-9	28-10	28-11	29-0	29-1	29-1	29-2	29-3	29-3
425.00	32-5	32-6	32-7	32-8	32-9	32-10	32-11	32-11	33-0	33-1
450.00	36-4	36-6	36-7	36-8	36-9	36-10	36-11	37-0	37-0	37-1
475.00	40-7	40-8	40-9	40-11	41-0	41-1	41-2	41-3	41-4	41-5
500.00	45-0	45-1	45-3	45-4	45-5	45-7	45-8	45-9	45-10	45-11
525.00	49-8	49-9	49-11	50-1	50-2	50-4	50-5	50-6	50-7	50-8
550.00	54-7	54-8	54-10	55-0	55-1	55-3	55-5	55-6	55-7	55-8
575.00	59-9	59-10	60-0	60-2	60-4	60-6	60-7	60-9	60-10	60-11
600.00	65-1	65-3	65-5	65-7	65-9	65-11	66-1	66-2	66-4	66-5
625.00	70-9	70-11	71-1	71-3	71-5	71-8	71-10	71-11	72-1	72-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.296

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	1.34	1976	1.33	2000*
20	0	0	0	0.52	0.42	1544	0.4	1619
30	0	0	0	0.52	0.53	1230	0.48	1342
40	0	0	0	0.52	0.66	978	0.59	1098
50	0	0	0	0.52	0.82	795	0.72	900
60	0	0	0	0.52	0.97	667	0.87	751
70	0	0	0	0.52	1.13	578	1.01	643
80	0	0	0	0.52	1.27	513	1.15	564
90	0	0	0	0.52	1.35	481	1.29	505
100	0	0	0	0.52	1.43	456	1.42	459
110	0	0	0	0.52	1.5	432	1.5	432
120	0	0	0	0.52	1.58	413	1.58	413
130	0	0	0	0.52	1.65	395	1.65	395
167	0	0	0	0.52	1.89	344	1.89	344
212	0	0	0	0.52	2.16	301	2.16	301

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	5.32	2000	5.32	2000*
20	0	0	0	0.52	4.25	613	4.17	624
30	0	0	0	0.52	4.43	588	4.34	600
40	0	0	0	0.52	4.6	567	4.51	578
50	0	0	0	0.52	4.76	547	4.67	558
60	0	0	0	0.52	4.92	529	4.83	540
70	0	0	0	0.52	5.08	513	4.98	523
80	0	0	0	0.52	5.23	499	5.13	508
90	0	0	0	0.52	5.35	487	5.27	494
100	0	0	0	0.52	5.44	479	5.42	481
110	0	0	0	0.52	5.54	471	5.54	471
120	0	0	0	0.52	5.63	463	5.63	463
130	0	0	0	0.52	5.72	456	5.72	456
167	0	0	0	0.52	6.04	432	6.04	432
212	0	0	0	0.52	6.41	407	6.41	407

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.297

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.12	12	2000	12	2000*
20	0	0	0	0.52	10.97	536	10.9	540
30	0	0	0	0.52	11.14	528	11.05	532
40	0	0	0	0.52	11.3	521	11.21	525
50	0	0	0	0.52	11.45	514	11.36	518
60	0	0	0	0.52	11.61	507	11.51	511
70	0	0	0	0.52	11.76	500	11.66	505
80	0	0	0	0.52	11.91	494	11.81	498
90	0	0	0	0.52	12.04	489	11.96	492
100	0	0	0	0.52	12.14	485	12.11	486
110	0	0	0	0.52	12.24	481	12.24	481
120	0	0	0	0.52	12.33	478	12.33	478
130	0	0	0	0.52	12.43	474	12.43	474
167	0	0	0	0.52	12.78	461	12.78	461
212	0	0	0	0.52	13.19	447	13.19	447

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.12	21.45	2000	21.45	2000*
20	0	0	0	0.52	20.43	514	20.35	516
30	0	0	0	0.52	20.59	511	20.51	513
40	0	0	0	0.52	20.74	507	20.66	509
50	0	0	0	0.52	20.9	503	20.81	505
60	0	0	0	0.52	21.05	499	20.96	502
70	0	0	0	0.52	21.21	496	21.11	498
80	0	0	0	0.52	21.36	493	21.26	495
90	0	0	0	0.52	21.48	490	21.4	491
100	0	0	0	0.52	21.58	487	21.55	488
110	0	0	0	0.52	21.69	485	21.69	485
120	0	0	0	0.52	21.78	483	21.78	483
130	0	0	0	0.52	21.88	481	21.88	481
167	0	0	0	0.52	22.24	473	22.24	473
212	0	0	0	0.52	22.67	465	22.67	465

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.298

Span = 500 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.12	33.73	2000	33.73	2000*
20	0	0	0	0.52	32.72	505	32.65	506
30	0	0	0	0.52	32.88	503	32.8	504
40	0	0	0	0.52	33.03	501	32.95	502
50	0	0	0	0.52	33.19	498	33.1	500
60	0	0	0	0.52	33.34	496	33.24	497
70	0	0	0	0.52	33.49	494	33.39	495
80	0	0	0	0.52	33.64	492	33.54	493
90	0	0	0	0.52	33.77	490	33.69	491
100	0	0	0	0.52	33.87	489	33.84	489
110	0	0	0	0.52	33.97	487	33.97	487
120	0	0	0	0.52	34.07	486	34.07	486
130	0	0	0	0.52	34.17	484	34.17	484
167	0	0	0	0.52	34.54	479	34.54	479
212	0	0	0	0.52	34.98	474	34.98	474

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.299

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10
100.00	0-5	0-6	0-7	0-9	0-10	1-0	1-2	1-3	1-5	1-6
125.00	0-8	0-9	0-11	1-2	1-4	1-7	1-10	2-0	2-3	2-4
150.00	0-11	1-1	1-4	1-8	1-11	2-3	2-7	2-11	3-2	3-5
175.00	1-3	1-6	1-10	2-3	2-8	3-1	3-6	3-11	4-4	4-7
200.00	1-7	1-11	2-4	2-11	3-6	4-1	4-7	5-2	5-8	6-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-4	0-6	0-7	0-8	0-9	0-9	0-10	0-10
100.00	0-5	0-6	0-8	0-10	1-0	1-2	1-3	1-4	1-5	1-6
125.00	0-8	0-10	1-0	1-3	1-6	1-9	2-0	2-1	2-3	2-4
150.00	0-11	1-2	1-6	1-10	2-2	2-6	2-10	3-1	3-3	3-5
175.00	1-3	1-7	2-0	2-6	3-0	3-5	3-11	4-2	4-4	4-7
200.00	1-8	2-1	2-8	3-3	3-11	4-6	5-1	5-5	5-9	6-0

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STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-1	1-2	1-2	1-2	1-3	1-3	1-4	1-4	1-5
125.00	1-8	1-8	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2
150.00	2-4	2-5	2-6	2-8	2-9	2-10	2-11	3-0	3-1	3-1
175.00	3-2	3-4	3-5	3-7	3-8	3-10	3-11	4-0	4-2	4-3
200.00	4-2	4-4	4-6	4-8	4-10	5-0	5-2	5-3	5-5	5-6
225.00	5-3	5-6	5-8	5-11	6-1	6-4	6-6	6-8	6-10	7-0
250.00	6-6	6-9	7-1	7-4	7-7	7-9	8-0	8-3	8-6	8-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4	1-5
125.00	1-8	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-1	2-2
150.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-1
175.00	3-3	3-5	3-6	3-8	3-9	3-11	4-0	4-1	4-2	4-3
200.00	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-4	5-5	5-6
225.00	5-5	5-7	5-10	6-0	6-3	6-5	6-7	6-9	6-11	7-0
250.00	6-8	6-11	7-2	7-5	7-8	7-11	8-2	8-4	8-6	8-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.301

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-9	2-10	2-10	2-10	2-11	2-11	3-0	3-0	3-1
175.00	3-8	3-9	3-10	3-10	3-11	4-0	4-0	4-1	4-1	4-2
200.00	4-10	4-11	5-0	5-1	5-1	5-2	5-3	5-4	5-4	5-5
225.00	6-1	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11
250.00	7-7	7-8	7-9	7-11	8-0	8-1	8-2	8-4	8-5	8-6
275.00	9-2	9-3	9-5	9-7	9-8	9-10	9-11	10-1	10-2	10-3
300.00	10-11	11-1	11-3	11-4	11-6	11-8	11-10	12-0	12-1	12-3
325.00	12-9	13-0	13-2	13-4	13-6	13-8	13-10	14-0	14-3	14-4
350.00	14-10	15-1	15-3	15-6	15-8	15-11	16-1	16-3	16-6	16-8
375.00	17-0	17-3	17-6	17-9	18-0	18-3	18-6	18-9	18-11	19-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-0	3-1
175.00	3-9	3-9	3-10	3-11	3-11	4-0	4-1	4-1	4-1	4-2
200.00	4-10	4-11	5-0	5-1	5-2	5-3	5-3	5-4	5-5	5-5
225.00	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11
250.00	7-7	7-9	7-10	7-11	8-1	8-2	8-3	8-4	8-5	8-6
275.00	9-3	9-4	9-6	9-7	9-9	9-11	10-0	10-1	10-2	10-3
300.00	11-0	11-2	11-4	11-5	11-7	11-9	11-11	12-0	12-2	12-3
325.00	12-11	13-1	13-3	13-5	13-8	13-10	14-0	14-2	14-3	14-4
350.00	14-11	15-2	15-5	15-7	15-10	16-0	16-3	16-5	16-6	16-8
375.00	17-2	17-5	17-8	17-11	18-2	18-5	18-8	18-10	19-0	19-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.302

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-4	5-5
225.00	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-9	6-10	6-10
250.00	7-11	8-0	8-1	8-1	8-2	8-3	8-3	8-4	8-5	8-5
275.00	9-7	9-8	9-9	9-10	9-11	9-11	10-0	10-1	10-2	10-3
300.00	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2
325.00	13-5	13-6	13-7	13-9	13-10	13-11	14-0	14-1	14-2	14-4
350.00	15-7	15-8	15-10	15-11	16-0	16-2	16-3	16-4	16-6	16-7
375.00	17-11	18-0	18-2	18-3	18-5	18-7	18-8	18-10	18-11	19-1
400.00	20-4	20-6	20-8	20-10	20-11	21-1	21-3	21-5	21-7	21-8
425.00	23-0	23-2	23-4	23-6	23-8	23-10	24-0	24-2	24-4	24-6
450.00	25-9	26-0	26-2	26-4	26-7	26-9	26-11	27-1	27-4	27-6
475.00	28-9	28-11	29-2	29-5	29-7	29-10	30-0	30-3	30-5	30-8
500.00	31-10	32-1	32-4	32-7	32-10	33-1	33-3	33-6	33-9	33-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-1	5-2	5-2	5-3	5-3	5-3	5-4	5-4	5-5	5-5
225.00	6-5	6-6	6-7	6-7	6-8	6-8	6-9	6-9	6-10	6-10
250.00	8-0	8-0	8-1	8-2	8-2	8-3	8-4	8-4	8-5	8-5
275.00	9-8	9-9	9-9	9-10	9-11	10-0	10-1	10-2	10-2	10-3
300.00	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-1	12-2
325.00	13-6	13-7	13-8	13-9	13-11	14-0	14-1	14-2	14-3	14-4
350.00	15-8	15-9	15-10	16-0	16-1	16-3	16-4	16-5	16-6	16-7
375.00	17-11	18-1	18-3	18-4	18-6	18-8	18-9	18-10	19-0	19-1
400.00	20-5	20-7	20-9	20-11	21-1	21-2	21-4	21-6	21-7	21-8
425.00	23-1	23-3	23-5	23-7	23-9	23-11	24-1	24-3	24-5	24-6
450.00	25-11	26-1	26-3	26-6	26-8	26-10	27-1	27-3	27-4	27-6
475.00	28-10	29-1	29-4	29-6	29-9	29-11	30-2	30-4	30-6	30-8
500.00	32-0	32-3	32-6	32-9	33-0	33-2	33-5	33-8	33-10	33-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.303

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-2	8-2	8-2	8-3	8-3	8-4	8-4	8-5	8-5	8-5
275.00	9-10	9-11	9-11	10-0	10-0	10-1	10-1	10-2	10-2	10-3
300.00	11-9	11-9	11-10	11-10	11-11	12-0	12-0	12-1	12-2	12-2
325.00	13-9	13-10	13-10	13-11	14-0	14-1	14-1	14-2	14-3	14-4
350.00	15-11	16-0	16-1	16-2	16-3	16-4	16-5	16-5	16-6	16-7
375.00	18-4	18-5	18-6	18-7	18-8	18-9	18-10	18-11	19-0	19-1
400.00	20-10	20-11	21-1	21-2	21-3	21-4	21-5	21-6	21-7	21-8
425.00	23-7	23-8	23-9	23-10	24-0	24-1	24-2	24-4	24-5	24-6
450.00	26-5	26-6	26-8	26-9	26-11	27-0	27-2	27-3	27-5	27-6
475.00	29-5	29-7	29-9	29-10	30-0	30-1	30-3	30-5	30-6	30-8
500.00	32-8	32-10	32-11	33-1	33-3	33-5	33-6	33-8	33-10	34-0
525.00	36-0	36-2	36-4	36-6	36-8	36-10	37-0	37-2	37-4	37-6
550.00	39-7	39-9	39-11	40-1	40-3	40-5	40-8	40-10	41-0	41-2
575.00	43-3	43-5	43-8	43-10	44-1	44-3	44-5	44-8	44-10	45-0
600.00	47-2	47-4	47-7	47-9	48-0	48-3	48-5	48-8	48-10	49-1
625.00	51-2	51-5	51-8	51-11	52-1	52-4	52-7	52-10	53-1	53-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-2	8-2	8-3	8-3	8-4	8-4	8-4	8-5	8-5	8-5
275.00	9-10	9-11	9-11	10-0	10-1	10-1	10-2	10-2	10-2	10-3
300.00	11-9	11-10	11-10	11-11	11-11	12-0	12-1	12-1	12-2	12-2
325.00	13-9	13-10	13-11	14-0	14-0	14-1	14-2	14-3	14-3	14-4
350.00	16-0	16-1	16-2	16-3	16-3	16-4	16-5	16-6	16-7	16-7
375.00	18-4	18-5	18-6	18-7	18-8	18-9	18-10	18-11	19-0	19-1
400.00	20-11	21-0	21-1	21-2	21-4	21-5	21-6	21-7	21-8	21-8
425.00	23-7	23-9	23-10	23-11	24-1	24-2	24-3	24-4	24-5	24-6
450.00	26-6	26-7	26-9	26-10	27-0	27-1	27-3	27-4	27-5	27-6
475.00	29-6	29-8	29-10	29-11	30-1	30-3	30-4	30-6	30-7	30-8
500.00	32-9	32-11	33-0	33-2	33-4	33-6	33-8	33-9	33-10	34-0
525.00	36-1	36-3	36-5	36-7	36-9	36-11	37-1	37-3	37-4	37-6
550.00	39-8	39-10	40-0	40-2	40-5	40-7	40-9	40-11	41-0	41-2
575.00	43-4	43-7	43-9	44-0	44-2	44-5	44-7	44-9	44-11	45-0
600.00	47-3	47-6	47-8	47-11	48-2	48-4	48-7	48-9	48-11	49-1
625.00	51-3	51-6	51-9	52-0	52-3	52-6	52-9	52-11	53-1	53-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.304

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	1.12	2375	1.06	2500*
20	0	0	0	0.52	0.27	2413	0.25	2578
30	0	0	0	0.52	0.32	2024	0.29	2268
40	0	0	0	0.52	0.39	1656	0.33	1960
50	0	0	0	0.52	0.49	1325	0.39	1659
60	0	0	0	0.52	0.62	1052	0.47	1376
70	0	0	0	0.52	0.77	847	0.58	1124
80	0	0	0	0.52	0.92	703	0.71	919
90	0	0	0	0.52	1.02	638	0.85	764
100	0	0	0	0.52	1.09	595	1	652
110	0	0	0	0.52	1.17	557	1.14	570
120	0	0	0	0.52	1.24	522	1.24	522
130	0	0	0	0.52	1.32	493	1.32	493
167	0	0	0	0.52	1.59	409	1.59	409
212	0	0	0	0.52	1.89	344	1.89	344

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	4.25	2499	4.25	2500*
20	0	0	0	0.52	2.71	962	2.57	1014
30	0	0	0	0.52	2.94	885	2.79	932
40	0	0	0	0.52	3.16	823	3.01	865
50	0	0	0	0.52	3.38	770	3.22	808
60	0	0	0	0.52	3.59	726	3.42	760
70	0	0	0	0.52	3.79	688	3.62	719
80	0	0	0	0.52	3.98	655	3.81	683
90	0	0	0	0.52	4.16	626	3.99	652
100	0	0	0	0.52	4.29	607	4.17	624
110	0	0	0	0.52	4.4	592	4.34	600
120	0	0	0	0.52	4.51	578	4.51	578
130	0	0	0	0.52	4.61	565	4.61	565
167	0	0	0	0.52	4.98	523	4.98	523
212	0	0	0	0.52	5.41	482	5.41	482

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.305

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	9.58	2500	9.58	2500*
20	0	0	0	0.52	8.09	725	7.95	738
30	0	0	0	0.52	8.31	706	8.16	719
40	0	0	0	0.52	8.51	689	8.36	702
50	0	0	0	0.52	8.72	673	8.56	686
60	0	0	0	0.52	8.92	658	8.75	671
70	0	0	0	0.52	9.11	644	8.95	656
80	0	0	0	0.52	9.3	631	9.13	643
90	0	0	0	0.52	9.49	619	9.32	630
100	0	0	0	0.52	9.63	610	9.5	618
110	0	0	0	0.52	9.74	603	9.68	607
120	0	0	0	0.52	9.86	596	9.86	596
130	0	0	0	0.52	9.98	589	9.98	589
167	0	0	0	0.52	10.4	565	10.4	565
212	0	0	0	0.52	10.88	540	10.88	540

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	17.08	2500	17.08	2500*
20	0	0	0	0.52	15.63	670	15.49	676
30	0	0	0	0.52	15.83	661	15.68	667
40	0	0	0	0.52	16.03	653	15.88	659
50	0	0	0	0.52	16.23	645	16.07	651
60	0	0	0	0.52	16.42	638	16.26	644
70	0	0	0	0.52	16.62	630	16.45	637
80	0	0	0	0.52	16.81	623	16.64	629
90	0	0	0	0.52	17	616	16.82	623
100	0	0	0	0.52	17.13	611	17.01	616
110	0	0	0	0.52	17.26	607	17.19	610
120	0	0	0	0.52	17.38	603	17.37	603
130	0	0	0	0.52	17.5	599	17.5	599
167	0	0	0	0.52	17.94	584	17.94	584
212	0	0	0	0.52	18.46	568	18.46	568

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.306

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	26.81	2500	26.81	2500*
20	0	0	0	0.52	25.36	647	25.22	651
30	0	0	0	0.52	25.56	642	25.42	646
40	0	0	0	0.52	25.76	638	25.61	641
50	0	0	0	0.52	25.95	633	25.8	637
60	0	0	0	0.52	26.14	628	25.98	632
70	0	0	0	0.52	26.34	624	26.17	628
80	0	0	0	0.52	26.53	619	26.36	623
90	0	0	0	0.52	26.72	615	26.54	619
100	0	0	0	0.52	26.86	612	26.73	615
110	0	0	0	0.52	26.98	609	26.91	611
120	0	0	0	0.52	27.1	607	27.09	607
130	0	0	0	0.52	27.23	604	27.23	604
167	0	0	0	0.52	27.68	594	27.68	594
212	0	0	0	0.52	28.22	583	28.22	583

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.307

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8
100.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-2
125.00	0-5	0-5	0-6	0-7	0-9	0-11	1-1	1-4	1-7	1-9
150.00	0-7	0-8	0-9	0-11	1-1	1-4	1-7	1-11	2-3	2-7
175.00	0-9	0-11	1-0	1-2	1-5	1-9	2-2	2-7	3-1	3-6
200.00	1-0	1-2	1-4	1-7	1-11	2-4	2-10	3-5	4-0	4-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-7	0-8
100.00	0-3	0-4	0-5	0-6	0-7	0-9	0-11	1-0	1-1	1-2
125.00	0-5	0-6	0-7	0-9	1-0	1-2	1-5	1-7	1-8	1-10
150.00	0-7	0-9	0-11	1-1	1-5	1-9	2-1	2-4	2-6	2-8
175.00	0-10	1-0	1-2	1-6	1-11	2-4	2-10	3-1	3-4	3-7
200.00	1-1	1-3	1-7	2-0	2-6	3-1	3-8	4-1	4-4	4-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.308

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1
125.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-8
150.00	1-5	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-4	2-5
175.00	2-0	2-2	2-4	2-6	2-7	2-9	2-11	3-1	3-2	3-4
200.00	2-7	2-9	3-0	3-3	3-5	3-7	3-10	4-0	4-2	4-4
225.00	3-3	3-6	3-10	4-1	4-4	4-7	4-10	5-1	5-3	5-6
250.00	4-0	4-4	4-8	5-0	5-4	5-8	5-11	6-3	6-6	6-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1
125.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-8	1-9
150.00	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-4	2-5	2-6
175.00	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-2	3-3	3-4
200.00	2-8	2-11	3-2	3-5	3-7	3-9	4-0	4-2	4-3	4-5
225.00	3-5	3-9	4-0	4-3	4-6	4-10	5-0	5-3	5-5	5-7
250.00	4-3	4-7	4-11	5-3	5-7	5-11	6-3	6-6	6-8	6-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.309

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-4	2-5
175.00	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3
200.00	3-6	3-7	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4
225.00	4-6	4-7	4-8	4-10	4-11	5-0	5-2	5-3	5-4	5-5
250.00	5-6	5-8	5-10	5-11	6-1	6-3	6-4	6-6	6-7	6-9
275.00	6-8	6-10	7-0	7-2	7-4	7-6	7-8	7-10	8-0	8-2
300.00	7-11	8-2	8-4	8-7	8-9	8-11	9-2	9-4	9-6	9-8
325.00	9-4	9-7	9-10	10-1	10-3	10-6	10-9	10-11	11-2	11-4
350.00	10-10	11-1	11-5	11-8	11-11	12-2	12-5	12-8	12-11	13-2
375.00	12-5	12-9	13-1	13-5	13-8	14-0	14-3	14-7	14-10	15-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-4	2-5	2-5
175.00	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3	3-4
200.00	3-7	3-8	3-9	3-10	4-0	4-1	4-2	4-3	4-3	4-4
225.00	4-7	4-8	4-9	4-11	5-0	5-1	5-3	5-4	5-5	5-6
250.00	5-7	5-9	5-11	6-1	6-2	6-4	6-5	6-7	6-8	6-9
275.00	6-10	7-0	7-2	7-4	7-6	7-8	7-10	8-0	8-1	8-2
300.00	8-1	8-4	8-6	8-9	8-11	9-1	9-4	9-6	9-8	9-9
325.00	9-6	9-9	10-0	10-3	10-6	10-8	10-11	11-2	11-4	11-5
350.00	11-0	11-4	11-7	11-10	12-2	12-5	12-8	12-11	13-1	13-3
375.00	12-8	13-0	13-4	13-8	13-11	14-3	14-7	14-10	15-1	15-3

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STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.310

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-10	3-11	4-0	4-0	4-1	4-1	4-2	4-2	4-3	4-3
225.00	4-11	4-11	5-0	5-1	5-2	5-2	5-3	5-4	5-4	5-5
250.00	6-1	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-8
275.00	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1
300.00	8-8	8-10	8-11	9-0	9-2	9-3	9-4	9-5	9-7	9-8
325.00	10-3	10-4	10-6	10-7	10-9	10-10	11-0	11-1	11-3	11-4
350.00	11-10	12-0	12-2	12-4	12-5	12-7	12-9	12-10	13-0	13-2
375.00	13-7	13-9	13-11	14-1	14-3	14-5	14-7	14-9	14-11	15-1
400.00	15-6	15-8	15-11	16-1	16-3	16-5	16-8	16-10	17-0	17-2
425.00	17-6	17-9	17-11	18-2	18-4	18-7	18-9	19-0	19-2	19-5
450.00	19-7	19-10	20-1	20-4	20-7	20-10	21-1	21-4	21-6	21-9
475.00	21-10	22-2	22-5	22-8	22-11	23-3	23-6	23-9	24-0	24-3
500.00	24-3	24-6	24-10	25-2	25-5	25-9	26-0	26-4	26-7	26-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-11	3-11	4-0	4-1	4-1	4-2	4-2	4-3	4-3	4-4
225.00	4-11	5-0	5-1	5-2	5-2	5-3	5-4	5-4	5-5	5-5
250.00	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-8	6-9
275.00	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2
300.00	8-9	8-11	9-0	9-1	9-3	9-4	9-5	9-7	9-8	9-8
325.00	10-4	10-5	10-7	10-8	10-10	11-0	11-1	11-3	11-4	11-5
350.00	12-0	12-1	12-3	12-5	12-7	12-9	12-10	13-0	13-1	13-2
375.00	13-9	13-11	14-1	14-3	14-5	14-7	14-9	14-11	15-1	15-2
400.00	15-8	15-10	16-0	16-3	16-5	16-7	16-10	17-0	17-2	17-3
425.00	17-8	17-11	18-1	18-4	18-7	18-9	19-0	19-2	19-4	19-6
450.00	19-9	20-1	20-4	20-7	20-10	21-0	21-3	21-6	21-8	21-10
475.00	22-1	22-4	22-7	22-11	23-2	23-5	23-9	24-0	24-2	24-4
500.00	24-5	24-9	25-1	25-5	25-8	26-0	26-4	26-7	26-10	27-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.311

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-3	6-4	6-5	6-5	6-6	6-6	6-7	6-7	6-8	6-8
275.00	7-7	7-8	7-9	7-9	7-10	7-11	7-11	8-0	8-1	8-1
300.00	9-1	9-2	9-2	9-3	9-4	9-5	9-6	9-6	9-7	9-8
325.00	10-8	10-9	10-10	10-11	10-11	11-0	11-1	11-2	11-3	11-4
350.00	12-4	12-5	12-6	12-7	12-9	12-10	12-11	13-0	13-1	13-2
375.00	14-2	14-3	14-5	14-6	14-7	14-8	14-10	14-11	15-0	15-1
400.00	16-1	16-3	16-4	16-6	16-7	16-9	16-10	17-0	17-1	17-2
425.00	18-2	18-4	18-6	18-7	18-9	18-11	19-0	19-2	19-3	19-5
450.00	20-5	20-7	20-9	20-11	21-0	21-2	21-4	21-6	21-8	21-9
475.00	22-9	22-11	23-1	23-3	23-5	23-7	23-9	23-11	24-1	24-3
500.00	25-3	25-5	25-7	25-10	26-0	26-2	26-4	26-7	26-9	26-11
525.00	27-10	28-0	28-3	28-5	28-8	28-10	29-1	29-3	29-6	29-8
550.00	30-7	30-9	31-0	31-3	31-6	31-8	31-11	32-2	32-4	32-7
575.00	33-5	33-8	33-11	34-2	34-5	34-8	34-11	35-2	35-5	35-8
600.00	36-5	36-8	36-11	37-2	37-6	37-9	38-0	38-3	38-7	38-10
625.00	39-6	39-9	40-1	40-5	40-8	41-0	41-3	41-7	41-10	42-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-4	6-4	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-9
275.00	7-8	7-9	7-9	7-10	7-11	7-11	8-0	8-1	8-1	8-2
300.00	9-1	9-2	9-3	9-4	9-5	9-6	9-6	9-7	9-8	9-8
325.00	10-8	10-9	10-10	10-11	11-0	11-1	11-2	11-3	11-4	11-4
350.00	12-5	12-6	12-7	12-8	12-9	12-11	13-0	13-1	13-2	13-2
375.00	14-3	14-4	14-6	14-7	14-8	14-9	14-11	15-0	15-1	15-2
400.00	16-3	16-4	16-6	16-7	16-9	16-10	16-11	17-1	17-2	17-3
425.00	18-4	18-5	18-7	18-9	18-10	19-0	19-2	19-3	19-5	19-6
450.00	20-6	20-8	20-10	21-0	21-2	21-4	21-6	21-7	21-9	21-10
475.00	22-11	23-1	23-3	23-5	23-7	23-9	23-11	24-1	24-3	24-4
500.00	25-4	25-7	25-9	25-11	26-2	26-4	26-6	26-9	26-10	27-0
525.00	28-0	28-2	28-5	28-7	28-10	29-1	29-3	29-6	29-7	29-9
550.00	30-9	30-11	31-2	31-5	31-8	31-11	32-1	32-4	32-6	32-8
575.00	33-7	33-10	34-1	34-4	34-7	34-10	35-1	35-5	35-7	35-9
600.00	36-7	36-10	37-2	37-5	37-9	38-0	38-3	38-6	38-9	38-11
625.00	39-8	40-0	40-4	40-8	40-11	41-3	41-6	41-10	42-1	42-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	0.98	2698	0.88	3000*
20	0	0	0	0.52	0.22	3002	0.2	3331
30	0	0	0	0.52	0.25	2598	0.21	3026
40	0	0	0	0.52	0.3	2202	0.24	2717
50	0	0	0	0.52	0.36	1822	0.27	2405
60	0	0	0	0.52	0.44	1472	0.31	2092
70	0	0	0	0.52	0.56	1170	0.36	1785
80	0	0	0	0.52	0.7	933	0.44	1490
90	0	0	0	0.52	0.79	826	0.53	1222
100	0	0	0	0.52	0.85	763	0.65	996
110	0	0	0	0.52	0.92	706	0.79	820
120	0	0	0	0.52	0.99	655	0.94	692
130	0	0	0	0.52	1.07	610	1.06	615
167	0	0	0	0.52	1.34	484	1.34	487
212	0	0	0	0.52	1.67	390	1.66	392

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	3.57	2974	3.54	3000*
20	0	0	0	0.52	1.62	1601	1.46	1778
30	0	0	0	0.52	1.86	1396	1.66	1571
40	0	0	0	0.52	2.11	1232	1.87	1392
50	0	0	0	0.52	2.36	1102	2.09	1243
60	0	0	0	0.52	2.61	999	2.32	1120
70	0	0	0	0.52	2.84	915	2.55	1020
80	0	0	0	0.52	3.07	847	2.78	937
90	0	0	0	0.52	3.29	791	3	869
100	0	0	0	0.52	3.47	751	3.21	811
110	0	0	0	0.52	3.59	726	3.41	762
120	0	0	0	0.52	3.7	703	3.61	721
130	0	0	0	0.52	3.82	682	3.8	684
167	0	0	0	0.52	4.23	616	4.23	616
212	0	0	0	0.52	4.7	554	4.7	554

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.313

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	7.97	3000	7.97	3000*
20	0	0	0	0.52	5.94	986	5.7	1027
30	0	0	0	0.52	6.21	944	5.97	982
40	0	0	0	0.52	6.47	906	6.22	942
50	0	0	0	0.52	6.72	872	6.47	906
60	0	0	0	0.52	6.97	841	6.71	873
70	0	0	0	0.52	7.21	813	6.95	844
80	0	0	0	0.52	7.44	788	7.18	817
90	0	0	0	0.52	7.67	765	7.41	792
100	0	0	0	0.52	7.89	743	7.63	769
110	0	0	0	0.52	8.02	731	7.84	748
120	0	0	0	0.52	8.16	719	8.05	729
130	0	0	0	0.52	8.29	708	8.26	710
167	0	0	0	0.52	8.77	669	8.77	669
212	0	0	0	0.52	9.32	630	9.32	630

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	14.21	3000	14.21	3000*
20	0	0	0	0.52	12.22	854	11.99	871
30	0	0	0	0.52	12.47	837	12.23	853
40	0	0	0	0.52	12.72	821	12.48	837
50	0	0	0	0.52	12.96	806	12.71	821
60	0	0	0	0.52	13.2	791	12.95	807
70	0	0	0	0.52	13.44	777	13.18	793
80	0	0	0	0.52	13.67	764	13.41	779
90	0	0	0	0.52	13.9	752	13.63	766
100	0	0	0	0.52	14.12	740	13.85	754
110	0	0	0	0.52	14.26	733	14.07	743
120	0	0	0	0.52	14.4	726	14.29	732
130	0	0	0	0.52	14.54	719	14.5	721
167	0	0	0	0.52	15.05	695	15.05	695
212	0	0	0	0.52	15.65	668	15.65	668

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	22.26	3000	22.26	3000*
20	0	0	0	0.52	20.3	806	20.07	815
30	0	0	0	0.52	20.55	796	20.31	805
40	0	0	0	0.52	20.79	787	20.54	796
50	0	0	0	0.52	21.02	778	20.78	788
60	0	0	0	0.52	21.26	770	21.01	779
70	0	0	0	0.52	21.49	762	21.23	771
80	0	0	0	0.52	21.72	754	21.46	763
90	0	0	0	0.52	21.95	746	21.68	755
100	0	0	0	0.52	22.17	739	21.9	748
110	0	0	0	0.52	22.32	734	22.12	740
120	0	0	0	0.52	22.46	729	22.34	733
130	0	0	0	0.52	22.61	725	22.56	726
167	0	0	0	0.52	23.14	708	23.14	708
212	0	0	0	0.52	23.76	690	23.76	690

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.315

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-4	0-4	0-5
100.00	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10
125.00	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-3
150.00	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-2	1-6	1-9
175.00	0-7	0-8	0-9	0-10	0-11	1-1	1-4	1-8	2-0	2-5
200.00	0-9	0-10	0-11	1-1	1-3	1-5	1-9	2-2	2-7	3-2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-3	0-4	0-5	0-5	0-6	0-6
100.00	0-3	0-3	0-4	0-4	0-5	0-7	0-8	0-9	0-10	0-11
125.00	0-4	0-5	0-6	0-7	0-8	0-10	1-1	1-3	1-4	1-5
150.00	0-6	0-7	0-8	0-10	1-0	1-3	1-7	1-9	1-11	2-1
175.00	0-8	0-9	0-11	1-1	1-4	1-8	2-2	2-5	2-7	2-10
200.00	0-10	1-0	1-2	1-5	1-9	2-3	2-9	3-2	3-5	3-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-10
125.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
150.00	0-10	0-11	1-1	1-2	1-4	1-5	1-7	1-8	1-10	1-11
175.00	1-1	1-3	1-5	1-7	1-9	1-11	2-2	2-4	2-5	2-7
200.00	1-6	1-8	1-10	2-1	2-4	2-7	2-9	3-0	3-3	3-5
225.00	1-10	2-1	2-4	2-8	2-11	3-3	3-6	3-10	4-1	4-4
250.00	2-3	2-7	2-11	3-3	3-8	4-0	4-4	4-8	5-0	5-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-10	0-11
125.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
150.00	0-11	1-1	1-2	1-4	1-6	1-7	1-9	1-10	1-11	2-0
175.00	1-3	1-5	1-7	1-10	2-0	2-2	2-4	2-6	2-8	2-9
200.00	1-7	1-10	2-1	2-4	2-7	2-10	3-1	3-3	3-6	3-7
225.00	2-1	2-4	2-8	3-0	3-4	3-7	3-11	4-2	4-5	4-6
250.00	2-6	2-11	3-4	3-8	4-1	4-5	4-10	5-2	5-5	5-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-10	1-11	2-0
175.00	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
200.00	2-6	2-8	2-9	2-10	3-0	3-1	3-2	3-3	3-5	3-6
225.00	3-2	3-4	3-6	3-8	3-9	3-11	4-0	4-2	4-3	4-5
250.00	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-2	5-4	5-5
275.00	4-10	5-0	5-3	5-5	5-8	5-10	6-0	6-3	6-5	6-7
300.00	5-8	6-0	6-3	6-6	6-9	6-11	7-2	7-5	7-8	7-10
325.00	6-8	7-0	7-4	7-7	7-11	8-2	8-5	8-8	8-11	9-2
350.00	7-9	8-1	8-6	8-10	9-2	9-6	9-9	10-1	10-5	10-8
375.00	8-11	9-4	9-9	10-1	10-6	10-10	11-3	11-7	11-11	12-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-0
175.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
200.00	2-8	2-9	2-10	3-0	3-1	3-2	3-4	3-5	3-6	3-7
225.00	3-4	3-6	3-8	3-9	3-11	4-1	4-2	4-4	4-5	4-6
250.00	4-1	4-4	4-6	4-8	4-10	5-0	5-2	5-4	5-6	5-7
275.00	5-0	5-3	5-5	5-8	5-10	6-1	6-3	6-5	6-8	6-9
300.00	5-11	6-3	6-6	6-9	7-0	7-3	7-5	7-8	7-11	8-0
325.00	7-0	7-3	7-7	7-11	8-2	8-6	8-9	9-0	9-3	9-5
350.00	8-1	8-5	8-10	9-2	9-6	9-10	10-2	10-5	10-9	10-11
375.00	9-3	9-8	10-1	10-6	10-11	11-3	11-8	12-0	12-4	12-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.318

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-0	3-1	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-6
225.00	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-5
250.00	4-8	4-9	4-10	5-0	5-1	5-2	5-3	5-4	5-5	5-6
275.00	5-8	5-9	5-11	6-0	6-1	6-3	6-4	6-5	6-7	6-8
300.00	6-9	6-11	7-0	7-2	7-3	7-5	7-6	7-8	7-9	7-11
325.00	7-11	8-1	8-3	8-5	8-7	8-8	8-10	9-0	9-2	9-3
350.00	9-2	9-4	9-7	9-9	9-11	10-1	10-3	10-5	10-7	10-9
375.00	10-6	10-9	11-0	11-2	11-5	11-7	11-9	12-0	12-2	12-4
400.00	12-0	12-3	12-6	12-9	12-11	13-2	13-5	13-8	13-10	14-1
425.00	13-6	13-10	14-1	14-4	14-7	14-11	15-2	15-5	15-8	15-11
450.00	15-2	15-6	15-10	16-1	16-5	16-8	17-0	17-3	17-6	17-10
475.00	16-11	17-3	17-7	17-11	18-3	18-7	18-11	19-3	19-7	19-10
500.00	18-9	19-2	19-6	19-11	20-3	20-7	21-0	21-4	21-8	22-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-1	3-1	3-2	3-3	3-4	3-4	3-5	3-6	3-6	3-7
225.00	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-6
250.00	4-9	4-10	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7
275.00	5-9	5-11	6-0	6-1	6-3	6-4	6-5	6-7	6-8	6-9
300.00	6-10	7-0	7-2	7-3	7-5	7-7	7-8	7-10	7-11	8-0
325.00	8-1	8-3	8-5	8-7	8-9	8-10	9-0	9-2	9-4	9-5
350.00	9-4	9-7	9-9	9-11	10-1	10-3	10-6	10-8	10-10	10-11
375.00	10-9	11-0	11-2	11-5	11-7	11-10	12-0	12-3	12-5	12-6
400.00	12-3	12-6	12-9	13-0	13-2	13-5	13-8	13-11	14-1	14-3
425.00	13-10	14-1	14-4	14-8	14-11	15-2	15-5	15-8	15-11	16-1
450.00	15-6	15-10	16-1	16-5	16-9	17-0	17-4	17-7	17-11	18-1
475.00	17-3	17-7	17-11	18-4	18-8	19-0	19-3	19-7	19-11	20-1
500.00	19-1	19-6	19-11	20-3	20-8	21-0	21-5	21-9	22-1	22-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.319

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-0	5-1	5-2	5-2	5-3	5-4	5-4	5-5	5-6	5-6
275.00	6-1	6-2	6-2	6-3	6-4	6-5	6-6	6-7	6-7	6-8
300.00	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-10	7-11
325.00	8-6	8-7	8-8	8-9	8-10	9-0	9-1	9-2	9-3	9-4
350.00	9-10	9-11	10-1	10-2	10-3	10-5	10-6	10-7	10-9	10-10
375.00	11-3	11-5	11-7	11-8	11-10	11-11	12-1	12-2	12-4	12-5
400.00	12-10	13-0	13-2	13-3	13-5	13-7	13-9	13-10	14-0	14-2
425.00	14-6	14-8	14-10	15-0	15-2	15-4	15-6	15-8	15-10	16-0
450.00	16-3	16-5	16-8	16-10	17-0	17-2	17-4	17-7	17-9	17-11
475.00	18-1	18-4	18-6	18-9	18-11	19-2	19-4	19-7	19-9	20-0
500.00	20-1	20-4	20-7	20-9	21-0	21-3	21-6	21-8	21-11	22-1
525.00	22-2	22-5	22-8	22-11	23-2	23-5	23-8	23-11	24-2	24-5
550.00	24-4	24-7	24-10	25-2	25-5	25-8	26-0	26-3	26-6	26-9
575.00	26-7	26-11	27-2	27-6	27-10	28-1	28-5	28-8	29-0	29-3
600.00	28-11	29-3	29-7	29-11	30-3	30-7	30-11	31-3	31-7	31-11
625.00	31-5	31-9	32-2	32-6	32-10	33-3	33-7	33-11	34-3	34-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-1	5-2	5-2	5-3	5-4	5-4	5-5	5-6	5-6	5-7
275.00	6-2	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-8	6-9
300.00	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-0
325.00	8-7	8-8	8-9	8-10	9-0	9-1	9-2	9-3	9-4	9-5
350.00	9-11	10-1	10-2	10-3	10-5	10-6	10-8	10-9	10-10	10-11
375.00	11-5	11-7	11-8	11-10	11-11	12-1	12-2	12-4	12-5	12-6
400.00	13-0	13-2	13-4	13-5	13-7	13-9	13-11	14-0	14-2	14-3
425.00	14-8	14-10	15-0	15-2	15-4	15-6	15-8	15-10	16-0	16-1
450.00	16-5	16-8	16-10	17-0	17-3	17-5	17-7	17-9	17-11	18-1
475.00	18-4	18-6	18-9	19-0	19-2	19-5	19-7	19-10	20-0	20-2
500.00	20-4	20-7	20-9	21-0	21-3	21-6	21-9	21-11	22-2	22-4
525.00	22-5	22-8	22-11	23-2	23-5	23-8	23-11	24-2	24-5	24-7
550.00	24-7	24-10	25-2	25-5	25-9	26-0	26-4	26-7	26-10	27-0
575.00	26-10	27-2	27-6	27-10	28-2	28-5	28-9	29-1	29-4	29-6
600.00	29-3	29-7	30-0	30-4	30-8	31-0	31-4	31-8	32-0	32-2
625.00	31-9	32-2	32-6	32-11	33-3	33-8	34-0	34-4	34-8	34-11

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SHEET 320 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.320

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	2.66	1000	2.66	1000*
0	0	0	0	0.52	2.33	279	2.3	283
30	0	0	0	0.52	2.6	251	2.58	253
40	0	0	0	0.52	2.67	244	2.65	246
50	0	0	0	0.52	2.75	237	2.72	240
60	0	0	0	0.52	2.82	231	2.79	234
70	0	0	0	0.52	2.87	227	2.86	228
80	0	0	0	0.52	2.92	223	2.92	223
90	0	0	0	0.52	2.96	220	2.96	220
100	0	0	0	0.52	3.01	217	3.01	217
110	0	0	0	0.52	3.05	214	3.05	214
120	0	0	0	0.52	3.09	211	3.09	211
130	0	0	0	0.52	3.14	208	3.14	208
167	0	0	0	0.52	3.29	199	3.29	199
212	0	0	0	0.52	3.47	188	3.47	188

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	10.72	1000	10.72	1000*
0	0	0	0	0.52	10.41	253	10.37	253
30	0	0	0	0.52	10.66	247	10.64	247
40	0	0	0	0.52	10.74	245	10.71	245
50	0	0	0	0.52	10.81	243	10.79	244
60	0	0	0	0.52	10.89	242	10.86	242
70	0	0	0	0.52	10.95	240	10.93	241
80	0	0	0	0.52	11	239	11	239
90	0	0	0	0.52	11.05	238	11.05	238
100	0	0	0	0.52	11.1	237	11.1	237
110	0	0	0	0.52	11.15	236	11.15	236
120	0	0	0	0.52	11.2	235	11.2	235
130	0	0	0	0.52	11.24	234	11.24	234
167	0	0	0	0.52	11.42	231	11.42	231
212	0	0	0	0.52	11.63	227	11.63	227

* Design Condition

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SHEET 321 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.321

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	24.49	1000	24.49	1000*
0	0	0	0	0.52	24.17	248	24.14	249
30	0	0	0	0.52	24.43	246	24.41	246
40	0	0	0	0.52	24.5	245	24.48	245
50	0	0	0	0.52	24.58	244	24.55	245
60	0	0	0	0.52	24.66	244	24.63	244
70	0	0	0	0.52	24.72	243	24.7	243
80	0	0	0	0.52	24.77	243	24.77	243
90	0	0	0	0.52	24.82	242	24.82	242
100	0	0	0	0.52	24.87	242	24.87	242
110	0	0	0	0.52	24.92	241	24.92	241
120	0	0	0	0.52	24.97	241	24.97	241
130	0	0	0	0.52	25.02	240	25.02	240
167	0	0	0	0.52	25.2	239	25.2	239
212	0	0	0	0.52	25.42	237	25.42	237

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	44.51	1000	44.51	1000*
0	0	0	0	0.52	44.2	247	44.16	247
30	0	0	0	0.52	44.45	246	44.43	246
40	0	0	0	0.52	44.53	245	44.5	245
50	0	0	0	0.52	44.6	245	44.58	245
60	0	0	0	0.52	44.68	244	44.65	245
70	0	0	0	0.52	44.74	244	44.72	244
80	0	0	0	0.52	44.79	244	44.79	244
90	0	0	0	0.52	44.84	244	44.84	244
100	0	0	0	0.52	44.89	243	44.89	243
110	0	0	0	0.52	44.94	243	44.94	243
120	0	0	0	0.52	44.99	243	44.99	243
130	0	0	0	0.52	45.04	243	45.04	243
167	0	0	0	0.52	45.23	242	45.23	242
212	0	0	0	0.52	45.45	241	45.45	241

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.322

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	71.75	1000	71.75	1000*
0	0	0	0	0.52	71.43	246	71.4	246
30	0	0	0	0.52	71.69	245	71.66	246
40	0	0	0	0.52	71.76	245	71.74	245
50	0	0	0	0.52	71.84	245	71.81	245
60	0	0	0	0.52	71.91	245	71.88	245
70	0	0	0	0.52	71.98	245	71.96	245
80	0	0	0	0.52	72.03	244	72.03	244
90	0	0	0	0.52	72.08	244	72.08	244
100	0	0	0	0.52	72.13	244	72.13	244
110	0	0	0	0.52	72.18	244	72.18	244
120	0	0	0	0.52	72.23	244	72.23	244
130	0	0	0	0.52	72.28	244	72.28	244
167	0	0	0	0.52	72.46	243	72.46	243
212	0	0	0	0.52	72.69	243	72.69	243

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.323

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-5	1-5	1-6	1-6	1-7	1-7	1-8	1-8	1-8	1-9
100.00	2-6	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-0	3-1
125.00	3-11	4-0	4-2	4-3	4-4	4-6	4-7	4-8	4-8	4-9
150.00	5-7	5-10	6-0	6-2	6-3	6-5	6-7	6-8	6-9	6-11
175.00	7-8	7-11	8-2	8-4	8-7	8-9	9-0	9-1	9-3	9-4
200.00	10-0	10-4	10-8	10-11	11-2	11-6	11-9	11-11	12-1	12-3

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-5	1-6	1-6	1-7	1-7	1-7	1-8	1-8	1-8	1-9
100.00	2-6	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-0	3-1
125.00	3-11	4-1	4-2	4-4	4-5	4-6	4-7	4-8	4-8	4-9
150.00	5-8	5-10	6-0	6-2	6-4	6-6	6-7	6-8	6-9	6-11
175.00	7-9	8-0	8-2	8-5	8-8	8-10	9-0	9-1	9-3	9-4
200.00	10-1	10-5	10-9	11-0	11-4	11-6	11-9	11-11	12-1	12-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.324

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-8	2-8	2-8	2-8	2-8	2-9	2-9	2-9	2-9	2-9
125.00	4-1	4-2	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-4
150.00	5-11	6-0	6-0	6-1	6-1	6-2	6-2	6-2	6-3	6-3
175.00	8-1	8-2	8-2	8-3	8-4	8-4	8-5	8-5	8-6	8-6
200.00	10-7	10-8	10-9	10-9	10-10	10-11	11-0	11-1	11-1	11-2
225.00	13-4	13-6	13-7	13-8	13-9	13-10	13-11	14-0	14-1	14-1
250.00	16-6	16-8	16-9	16-11	17-0	17-1	17-3	17-4	17-5	17-5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-8	2-8	2-8	2-8	2-9	2-9	2-9	2-9	2-9	2-9
125.00	4-2	4-2	4-2	4-3	4-3	4-3	4-3	4-4	4-4	4-4
150.00	5-11	6-0	6-0	6-1	6-1	6-2	6-2	6-2	6-3	6-3
175.00	8-1	8-2	8-3	8-3	8-4	8-5	8-5	8-5	8-6	8-6
200.00	10-7	10-8	10-9	10-10	10-11	10-11	11-0	11-1	11-1	11-2
225.00	13-5	13-6	13-7	13-8	13-10	13-10	13-11	14-0	14-1	14-1
250.00	16-7	16-8	16-10	16-11	17-1	17-2	17-3	17-4	17-5	17-5

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STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.325

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-0	6-1	6-1	6-1	6-1	6-2	6-2	6-2	6-2	6-2
175.00	8-3	8-3	8-3	8-4	8-4	8-4	8-5	8-5	8-5	8-5
200.00	10-9	10-10	10-10	10-10	10-11	10-11	10-11	11-0	11-0	11-0
225.00	13-8	13-8	13-9	13-9	13-10	13-10	13-11	13-11	13-11	14-0
250.00	16-10	16-11	16-11	17-0	17-1	17-1	17-2	17-2	17-3	17-3
275.00	20-5	20-6	20-7	20-7	20-8	20-9	20-9	20-10	20-10	20-11
300.00	24-4	24-5	24-6	24-7	24-8	24-8	24-9	24-10	24-10	24-11
325.00	28-7	28-8	28-9	28-10	28-11	29-0	29-1	29-2	29-3	29-4
350.00	33-2	33-4	33-5	33-6	33-8	33-9	33-10	33-11	34-0	34-0
375.00	38-2	38-4	38-5	38-7	38-8	38-9	38-11	39-0	39-1	39-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-1	6-1	6-1	6-1	6-1	6-2	6-2	6-2	6-2	6-2
175.00	8-3	8-3	8-3	8-4	8-4	8-4	8-5	8-5	8-5	8-5
200.00	10-9	10-10	10-10	10-10	10-11	10-11	10-11	11-0	11-0	11-0
225.00	13-8	13-8	13-9	13-9	13-10	13-10	13-11	13-11	13-11	14-0
250.00	16-10	16-11	17-0	17-0	17-1	17-1	17-2	17-2	17-3	17-3
275.00	20-5	20-6	20-7	20-8	20-8	20-9	20-9	20-10	20-10	20-11
300.00	24-4	24-5	24-6	24-7	24-8	24-9	24-9	24-10	24-10	24-11
325.00	28-7	28-9	28-10	28-11	29-0	29-1	29-1	29-2	29-3	29-4
350.00	33-3	33-4	33-6	33-7	33-8	33-9	33-10	33-11	34-0	34-0
375.00	38-3	38-4	38-6	38-7	38-9	38-10	38-11	39-0	39-1	39-2

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STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-11	11-0	11-0	11-0	11-0	11-1	11-1	11-1	11-1	11-1
225.00	13-11	13-11	13-11	13-11	14-0	14-0	14-0	14-0	14-1	14-1
250.00	17-2	17-2	17-3	17-3	17-3	17-4	17-4	17-4	17-4	17-5
275.00	20-9	20-10	20-10	20-11	20-11	21-0	21-0	21-0	21-0	21-1
300.00	24-9	24-10	24-10	24-11	24-11	25-0	25-0	25-1	25-1	25-1
325.00	29-1	29-2	29-3	29-3	29-4	29-4	29-5	29-5	29-6	29-6
350.00	33-10	33-11	33-11	34-0	34-1	34-1	34-2	34-2	34-3	34-3
375.00	38-11	39-0	39-0	39-1	39-2	39-3	39-4	39-4	39-5	39-5
400.00	44-4	44-5	44-6	44-7	44-8	44-9	44-10	44-10	44-11	44-11
425.00	50-2	50-3	50-4	50-5	50-6	50-7	50-8	50-9	50-9	50-10
450.00	56-4	56-6	56-7	56-8	56-9	56-10	56-11	57-0	57-1	57-2
475.00	62-11	63-1	63-2	63-3	63-5	63-6	63-7	63-8	63-9	63-10
500.00	69-11	70-1	70-2	70-3	70-5	70-6	70-8	70-8	70-9	70-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-0	11-0	11-0	11-0	11-0	11-1	11-1	11-1	11-1	11-1
225.00	13-11	13-11	13-11	14-0	14-0	14-0	14-0	14-0	14-1	14-1
250.00	17-2	17-2	17-3	17-3	17-3	17-4	17-4	17-4	17-4	17-5
275.00	20-10	20-10	20-10	20-11	20-11	21-0	21-0	21-0	21-0	21-1
300.00	24-9	24-10	24-10	24-11	24-11	25-0	25-0	25-1	25-1	25-1
325.00	29-2	29-2	29-3	29-3	29-4	29-5	29-5	29-5	29-6	29-6
350.00	33-10	33-11	34-0	34-0	34-1	34-2	34-2	34-2	34-3	34-3
375.00	38-11	39-0	39-1	39-2	39-2	39-3	39-4	39-4	39-5	39-5
400.00	44-5	44-5	44-6	44-7	44-8	44-9	44-10	44-10	44-11	44-11
425.00	50-2	50-3	50-4	50-5	50-7	50-7	50-8	50-9	50-9	50-10
450.00	56-5	56-6	56-7	56-8	56-9	56-10	56-11	57-0	57-1	57-2
475.00	63-0	63-1	63-2	63-4	63-5	63-6	63-7	63-8	63-9	63-10
500.00	69-11	70-1	70-2	70-4	70-5	70-7	70-8	70-8	70-9	70-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.327

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	17-7	17-7	17-7	17-7	17-7	17-8	17-8	17-8	17-8	17-8
275.00	21-3	21-3	21-4	21-4	21-4	21-4	21-5	21-5	21-5	21-5
300.00	25-4	25-4	25-5	25-5	25-5	25-6	25-6	25-6	25-6	25-7
325.00	29-10	29-10	29-10	29-11	29-11	29-11	30-0	30-0	30-0	30-0
350.00	34-7	34-8	34-8	34-9	34-9	34-10	34-10	34-10	34-10	34-11
375.00	39-10	39-10	39-11	39-11	40-0	40-0	40-1	40-1	40-1	40-2
400.00	45-5	45-5	45-6	45-6	45-7	45-7	45-8	45-8	45-9	45-9
425.00	51-4	51-5	51-6	51-6	51-7	51-7	51-8	51-8	51-9	51-9
450.00	57-8	57-9	57-10	57-11	57-11	58-0	58-1	58-1	58-2	58-2
475.00	64-5	64-6	64-7	64-8	64-9	64-9	64-10	64-11	64-11	65-0
500.00	71-7	71-8	71-9	71-10	71-11	71-11	72-0	72-1	72-2	72-2
525.00	79-2	79-3	79-4	79-5	79-6	79-7	79-7	79-8	79-9	79-9
550.00	87-1	87-2	87-3	87-4	87-5	87-7	87-8	87-8	87-9	87-10
575.00	95-5	95-7	95-8	95-9	95-10	96-0	96-1	96-2	96-2	96-3
600.00	104-3	104-5	104-6	104-7	104-8	104-10	104-11	105-0	105-1	105-2
625.00	113-6	113-7	113-9	113-10	114-0	114-1	114-2	114-3	114-4	114-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	17-7	17-7	17-7	17-7	17-8	17-8	17-8	17-8	17-8	17-8
275.00	21-3	21-4	21-4	21-4	21-4	21-5	21-5	21-5	21-5	21-5
300.00	25-4	25-5	25-5	25-5	25-6	25-6	25-6	25-6	25-6	25-7
325.00	29-10	29-10	29-10	29-11	29-11	29-11	30-0	30-0	30-0	30-0
350.00	34-8	34-8	34-8	34-9	34-9	34-10	34-10	34-10	34-10	34-11
375.00	39-10	39-10	39-11	39-11	40-0	40-0	40-1	40-1	40-1	40-2
400.00	45-5	45-5	45-6	45-7	45-7	45-8	45-8	45-8	45-9	45-9
425.00	51-4	51-5	51-6	51-6	51-7	51-8	51-8	51-8	51-9	51-9
450.00	57-9	57-9	57-10	57-11	58-0	58-0	58-1	58-1	58-2	58-2
475.00	64-6	64-6	64-7	64-8	64-9	64-10	64-10	64-11	64-11	65-0
500.00	71-7	71-8	71-9	71-10	71-11	72-0	72-0	72-1	72-2	72-2
525.00	79-2	79-3	79-4	79-5	79-6	79-7	79-7	79-8	79-9	79-9
550.00	87-1	87-3	87-4	87-5	87-6	87-7	87-8	87-8	87-9	87-10
575.00	95-6	95-7	95-8	95-10	95-11	96-0	96-1	96-2	96-2	96-3
600.00	104-4	104-5	104-6	104-8	104-9	104-10	104-11	105-0	105-1	105-2
625.00	113-6	113-8	113-9	113-11	114-0	114-1	114-2	114-3	114-4	114-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.328

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	1.77	1500	1.77	1500*
0	0	0	0	0.52	1.19	548	1.14	568
30	0	0	0	0.52	1.58	412	1.53	426
40	0	0	0	0.52	1.69	384	1.64	397
50	0	0	0	0.52	1.8	361	1.75	372
60	0	0	0	0.52	1.91	341	1.85	352
70	0	0	0	0.52	2	325	1.95	334
80	0	0	0	0.52	2.06	316	2.04	319
90	0	0	0	0.52	2.12	307	2.12	307
100	0	0	0	0.52	2.18	299	2.18	299
110	0	0	0	0.52	2.24	291	2.24	291
120	0	0	0	0.52	2.29	284	2.29	284
130	0	0	0	0.52	2.35	277	2.35	277
167	0	0	0	0.52	2.54	256	2.54	256
212	0	0	0	0.52	2.76	236	2.76	236

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	7.1	1500	7.1	1500*
0	0	0	0	0.52	6.56	398	6.48	403
30	0	0	0	0.52	6.91	378	6.86	381
40	0	0	0	0.52	7.03	372	6.97	375
50	0	0	0	0.52	7.14	366	7.08	369
60	0	0	0	0.52	7.25	361	7.19	364
70	0	0	0	0.52	7.36	355	7.3	358
80	0	0	0	0.52	7.44	351	7.4	353
90	0	0	0	0.52	7.51	348	7.51	348
100	0	0	0	0.52	7.58	345	7.58	345
110	0	0	0	0.52	7.65	342	7.65	342
120	0	0	0	0.52	7.72	339	7.72	339
130	0	0	0	0.52	7.79	336	7.79	336
167	0	0	0	0.52	8.03	326	8.03	326
212	0	0	0	0.52	8.33	314	8.33	314

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.329

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	16.08	1500	16.08	1500*
0	0	0	0	0.52	15.54	380	15.46	382
30	0	0	0	0.52	15.89	372	15.84	373
40	0	0	0	0.52	16.01	370	15.95	371
50	0	0	0	0.52	16.12	367	16.06	368
60	0	0	0	0.52	16.23	365	16.17	366
70	0	0	0	0.52	16.34	362	16.28	364
80	0	0	0	0.52	16.43	360	16.39	361
90	0	0	0	0.52	16.5	359	16.5	359
100	0	0	0	0.52	16.58	357	16.58	357
110	0	0	0	0.52	16.65	356	16.65	356
120	0	0	0	0.52	16.72	354	16.72	354
130	0	0	0	0.52	16.8	353	16.8	353
167	0	0	0	0.52	17.06	347	17.06	347
212	0	0	0	0.52	17.38	341	17.38	341

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	28.86	1500	28.86	1500*
0	0	0	0	0.52	28.32	375	28.24	376
30	0	0	0	0.52	28.67	370	28.61	371
40	0	0	0	0.52	28.78	369	28.72	370
50	0	0	0	0.52	28.89	367	28.84	368
60	0	0	0	0.52	29.01	366	28.95	367
70	0	0	0	0.52	29.12	365	29.06	366
80	0	0	0	0.52	29.21	364	29.16	364
90	0	0	0	0.52	29.28	363	29.27	363
100	0	0	0	0.52	29.36	362	29.36	362
110	0	0	0	0.52	29.43	361	29.43	361
120	0	0	0	0.52	29.51	360	29.51	360
130	0	0	0	0.52	29.58	359	29.58	359
167	0	0	0	0.52	29.85	356	29.85	356
212	0	0	0	0.52	30.18	352	30.18	352

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.330

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	45.65	1500	45.65	1500*
0	0	0	0	0.52	45.11	372	45.03	373
30	0	0	0	0.52	45.45	369	45.4	370
40	0	0	0	0.52	45.57	368	45.51	369
50	0	0	0	0.52	45.68	368	45.62	368
60	0	0	0	0.52	45.79	367	45.73	367
70	0	0	0	0.52	45.91	366	45.84	366
80	0	0	0	0.52	46	365	45.95	366
90	0	0	0	0.52	46.07	365	46.06	365
100	0	0	0	0.52	46.15	364	46.15	364
110	0	0	0	0.52	46.22	364	46.22	364
120	0	0	0	0.52	46.3	363	46.3	363
130	0	0	0	0.52	46.37	363	46.37	363
167	0	0	0	0.52	46.65	361	46.65	361
212	0	0	0	0.52	46.98	358	46.98	358

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.331

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-3
100.00	1-5	1-6	1-8	1-9	1-10	1-11	2-1	2-1	2-2	2-3
125.00	2-2	2-5	2-7	2-9	2-11	3-1	3-2	3-4	3-5	3-6
150.00	3-2	3-5	3-8	3-11	4-2	4-5	4-7	4-9	4-11	5-0
175.00	4-4	4-8	5-0	5-4	5-8	6-0	6-3	6-6	6-8	6-10
200.00	5-8	6-1	6-7	7-0	7-5	7-10	8-2	8-6	8-9	9-0

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-10	0-11	0-11	1-0	1-1	1-2	1-2	1-2	1-3	1-3
100.00	1-5	1-7	1-8	1-10	1-11	2-0	2-1	2-1	2-2	2-3
125.00	2-3	2-6	2-8	2-10	3-0	3-2	3-3	3-4	3-5	3-6
150.00	3-3	3-7	3-10	4-1	4-4	4-6	4-8	4-9	4-11	5-0
175.00	4-6	4-10	5-2	5-6	5-10	6-2	6-4	6-6	6-8	6-10
200.00	5-10	6-4	6-9	7-3	7-8	8-0	8-3	8-6	8-9	9-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-10	1-11	1-11
125.00	2-8	2-8	2-9	2-9	2-10	2-10	2-11	2-11	2-11	3-0
150.00	3-9	3-10	3-11	4-0	4-0	4-1	4-2	4-3	4-3	4-4
175.00	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-10
200.00	6-9	6-10	7-0	7-1	7-2	7-4	7-5	7-6	7-7	7-8
225.00	8-6	8-8	8-10	9-0	9-1	9-3	9-4	9-6	9-7	9-8
250.00	10-7	10-9	10-11	11-1	11-3	11-5	11-7	11-9	11-10	12-0

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-10	1-11	1-11
125.00	2-8	2-8	2-9	2-9	2-10	2-10	2-11	2-11	2-11	3-0
150.00	3-10	3-11	3-11	4-0	4-1	4-2	4-2	4-3	4-3	4-4
175.00	5-2	5-3	5-5	5-6	5-7	5-8	5-8	5-9	5-10	5-10
200.00	6-10	6-11	7-0	7-2	7-3	7-4	7-5	7-6	7-7	7-8
225.00	8-7	8-9	8-11	9-0	9-2	9-4	9-5	9-6	9-7	9-8
250.00	10-8	10-10	11-0	11-2	11-4	11-6	11-8	11-9	11-10	12-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.333

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-11	3-11	4-0	4-0	4-0	4-1	4-1	4-1	4-2	4-2
175.00	5-4	5-5	5-5	5-5	5-6	5-6	5-7	5-7	5-8	5-8
200.00	7-0	7-0	7-1	7-1	7-2	7-3	7-3	7-4	7-4	7-5
225.00	8-10	8-11	8-11	9-0	9-1	9-2	9-2	9-3	9-4	9-4
250.00	10-11	11-0	11-1	11-2	11-3	11-4	11-4	11-5	11-6	11-7
275.00	13-2	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-11	14-0
300.00	15-9	15-10	15-11	16-1	16-2	16-3	16-5	16-6	16-7	16-8
325.00	18-6	18-7	18-9	18-10	19-0	19-1	19-3	19-4	19-6	19-7
350.00	21-5	21-7	21-9	21-11	22-0	22-2	22-4	22-6	22-7	22-8
375.00	24-7	24-10	25-0	25-2	25-4	25-6	25-8	25-10	26-0	26-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-11	4-0	4-0	4-0	4-1	4-1	4-1	4-1	4-2	4-2
175.00	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-7	5-8	5-8
200.00	7-0	7-1	7-1	7-2	7-2	7-3	7-3	7-4	7-4	7-5
225.00	8-10	8-11	9-0	9-1	9-1	9-2	9-3	9-3	9-4	9-4
250.00	10-11	11-0	11-1	11-2	11-3	11-4	11-5	11-5	11-6	11-7
275.00	13-3	13-4	13-5	13-6	13-8	13-9	13-10	13-10	13-11	14-0
300.00	15-9	15-11	16-0	16-1	16-3	16-4	16-5	16-6	16-7	16-8
325.00	18-6	18-8	18-10	18-11	19-1	19-2	19-4	19-5	19-6	19-7
350.00	21-6	21-8	21-10	22-0	22-1	22-3	22-5	22-6	22-7	22-8
375.00	24-8	24-11	25-1	25-3	25-5	25-7	25-9	25-10	26-0	26-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.334

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-1	7-1	7-2	7-2	7-2	7-3	7-3	7-3	7-4	7-4
225.00	9-0	9-0	9-1	9-1	9-1	9-2	9-2	9-3	9-3	9-3
250.00	11-1	11-2	11-2	11-3	11-3	11-4	11-4	11-5	11-5	11-5
275.00	13-5	13-6	13-6	13-7	13-8	13-8	13-9	13-9	13-10	13-10
300.00	16-0	16-1	16-1	16-2	16-3	16-4	16-4	16-5	16-6	16-6
325.00	18-9	18-10	18-11	19-0	19-1	19-2	19-2	19-3	19-4	19-5
350.00	21-9	21-10	21-11	22-0	22-2	22-3	22-4	22-5	22-5	22-6
375.00	25-0	25-2	25-3	25-4	25-5	25-6	25-7	25-8	25-9	25-10
400.00	28-6	28-7	28-9	28-10	28-11	29-1	29-2	29-3	29-4	29-5
425.00	32-2	32-4	32-5	32-7	32-8	32-10	32-11	33-1	33-2	33-3
450.00	36-2	36-3	36-5	36-7	36-8	36-10	37-0	37-1	37-3	37-4
475.00	40-4	40-6	40-7	40-9	40-11	41-1	41-3	41-5	41-6	41-8
500.00	44-8	44-11	45-1	45-3	45-5	45-7	45-9	45-11	46-1	46-2

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-1	7-2	7-2	7-2	7-3	7-3	7-3	7-3	7-4	7-4
225.00	9-0	9-0	9-1	9-1	9-2	9-2	9-2	9-3	9-3	9-3
250.00	11-1	11-2	11-2	11-3	11-3	11-4	11-4	11-5	11-5	11-5
275.00	13-5	13-6	13-7	13-7	13-8	13-9	13-9	13-9	13-10	13-10
300.00	16-0	16-1	16-2	16-2	16-3	16-4	16-5	16-5	16-6	16-6
325.00	18-10	18-11	18-11	19-0	19-1	19-2	19-3	19-3	19-4	19-5
350.00	21-10	21-11	22-0	22-1	22-2	22-3	22-4	22-5	22-5	22-6
375.00	25-1	25-2	25-3	25-4	25-6	25-7	25-8	25-9	25-9	25-10
400.00	28-7	28-8	28-9	28-11	29-0	29-1	29-2	29-3	29-4	29-5
425.00	32-3	32-5	32-6	32-8	32-9	32-11	33-0	33-1	33-2	33-3
450.00	36-2	36-4	36-6	36-8	36-9	36-11	37-0	37-2	37-3	37-4
475.00	40-4	40-6	40-8	40-10	41-0	41-2	41-4	41-5	41-6	41-8
500.00	44-9	45-0	45-2	45-4	45-6	45-8	45-10	45-11	46-1	46-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.335

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-3	11-3	11-3	11-4	11-4	11-4	11-5	11-5	11-5	11-6
275.00	13-7	13-8	13-8	13-8	13-9	13-9	13-10	13-10	13-10	13-10
300.00	16-2	16-3	16-3	16-4	16-4	16-5	16-5	16-6	16-6	16-6
325.00	19-0	19-1	19-1	19-2	19-2	19-3	19-4	19-4	19-4	19-5
350.00	22-1	22-2	22-2	22-3	22-3	22-4	22-5	22-5	22-6	22-6
375.00	25-4	25-5	25-6	25-6	25-7	25-8	25-9	25-9	25-10	25-10
400.00	28-11	28-11	29-0	29-1	29-2	29-3	29-4	29-4	29-5	29-6
425.00	32-8	32-8	32-9	32-10	32-11	33-0	33-1	33-2	33-3	33-4
450.00	36-7	36-8	36-9	36-11	37-0	37-1	37-2	37-3	37-4	37-4
475.00	40-10	40-11	41-0	41-2	41-3	41-4	41-5	41-6	41-7	41-8
500.00	45-3	45-5	45-6	45-7	45-9	45-10	45-11	46-1	46-2	46-3
525.00	50-0	50-1	50-3	50-4	50-6	50-7	50-9	50-10	50-11	51-0
550.00	54-11	55-1	55-2	55-4	55-6	55-7	55-9	55-10	56-0	56-1
575.00	60-1	60-3	60-5	60-7	60-8	60-10	61-0	61-2	61-3	61-4
600.00	65-6	65-8	65-10	66-0	66-2	66-4	66-6	66-8	66-9	66-11
625.00	71-2	71-4	71-7	71-9	71-11	72-1	72-3	72-5	72-7	72-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-3	11-3	11-4	11-4	11-4	11-5	11-5	11-5	11-5	11-6
275.00	13-7	13-8	13-8	13-9	13-9	13-9	13-10	13-10	13-10	13-10
300.00	16-3	16-3	16-3	16-4	16-4	16-5	16-5	16-6	16-6	16-6
325.00	19-0	19-1	19-2	19-2	19-3	19-3	19-4	19-4	19-4	19-5
350.00	22-1	22-2	22-2	22-3	22-4	22-4	22-5	22-5	22-6	22-6
375.00	25-5	25-5	25-6	25-7	25-8	25-8	25-9	25-9	25-10	25-10
400.00	28-11	29-0	29-1	29-1	29-2	29-3	29-4	29-4	29-5	29-6
425.00	32-8	32-9	32-10	32-11	33-0	33-1	33-2	33-2	33-3	33-4
450.00	36-8	36-9	36-10	36-11	37-0	37-1	37-2	37-3	37-4	37-4
475.00	40-11	41-0	41-1	41-2	41-3	41-5	41-6	41-6	41-7	41-8
500.00	45-4	45-5	45-7	45-8	45-10	45-11	46-0	46-1	46-2	46-3
525.00	50-1	50-2	50-4	50-5	50-7	50-8	50-9	50-10	50-11	51-0
550.00	55-0	55-1	55-3	55-5	55-6	55-8	55-9	55-11	56-0	56-1
575.00	60-2	60-4	60-6	60-8	60-9	60-11	61-1	61-2	61-3	61-4
600.00	65-7	65-9	65-11	66-1	66-3	66-5	66-7	66-8	66-9	66-11
625.00	71-3	71-5	71-8	71-10	72-0	72-2	72-4	72-5	72-7	72-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.336

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.12	1.33	2000	1.33	2000*
0	0	0	0	0.52	0.51	1276	0.48	1345
30	0	0	0	0.52	0.95	684	0.86	755
40	0	0	0	0.52	1.1	590	1.01	646
50	0	0	0	0.52	1.25	522	1.15	567
60	0	0	0	0.52	1.38	471	1.28	507
70	0	0	0	0.52	1.51	431	1.41	461
80	0	0	0	0.52	1.59	408	1.53	425
90	0	0	0	0.52	1.66	391	1.64	396
100	0	0	0	0.52	1.73	375	1.73	375
110	0	0	0	0.52	1.8	361	1.8	361
120	0	0	0	0.52	1.87	349	1.87	349
130	0	0	0	0.52	1.93	337	1.93	337
167	0	0	0	0.52	2.15	303	2.15	303
212	0	0	0	0.52	2.4	271	2.4	271

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.12	5.32	2000	5.32	2000*
0	0	0	0	0.52	4.43	588	4.34	601
30	0	0	0	0.52	4.92	529	4.82	541
40	0	0	0	0.52	5.08	513	4.97	524
50	0	0	0	0.52	5.23	499	5.12	509
60	0	0	0	0.52	5.38	485	5.27	495
70	0	0	0	0.52	5.52	472	5.41	482
80	0	0	0	0.52	5.65	462	5.55	470
90	0	0	0	0.52	5.74	454	5.68	459
100	0	0	0	0.52	5.83	448	5.82	448
110	0	0	0	0.52	5.92	441	5.92	441
120	0	0	0	0.52	6	435	6	435
130	0	0	0	0.52	6.09	429	6.09	429
167	0	0	0	0.52	6.39	408	6.39	408
212	0	0	0	0.52	6.75	387	6.75	387

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.337

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	12	2000	12	2000*
0	0	0	0	0.52	11.14	528	11.04	533
30	0	0	0	0.52	11.61	507	11.51	511
40	0	0	0	0.52	11.76	500	11.66	505
50	0	0	0	0.52	11.91	494	11.81	499
60	0	0	0	0.52	12.06	488	11.95	493
70	0	0	0	0.52	12.21	482	12.1	487
80	0	0	0	0.52	12.36	477	12.24	481
90	0	0	0	0.52	12.45	473	12.38	476
100	0	0	0	0.52	12.55	469	12.53	470
110	0	0	0	0.52	12.65	466	12.65	466
120	0	0	0	0.52	12.74	463	12.74	463
130	0	0	0	0.52	12.83	459	12.83	459
167	0	0	0	0.52	13.17	448	13.17	448
212	0	0	0	0.52	13.57	435	13.57	435

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	21.45	2000	21.45	2000*
0	0	0	0	0.52	20.59	511	20.49	513
30	0	0	0	0.52	21.05	499	20.95	502
40	0	0	0	0.52	21.21	496	21.1	498
50	0	0	0	0.52	21.36	493	21.25	495
60	0	0	0	0.52	21.51	489	21.4	492
70	0	0	0	0.52	21.66	486	21.54	488
80	0	0	0	0.52	21.81	483	21.69	485
90	0	0	0	0.52	21.91	480	21.83	482
100	0	0	0	0.52	22	478	21.98	479
110	0	0	0	0.52	22.11	476	22.11	476
120	0	0	0	0.52	22.2	474	22.2	474
130	0	0	0	0.52	22.3	472	22.3	472
167	0	0	0	0.52	22.65	465	22.65	465
212	0	0	0	0.52	23.07	457	23.07	457

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.338

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	33.73	2000	33.73	2000*
0	0	0	0	0.52	32.88	503	32.78	504
30	0	0	0	0.52	33.34	496	33.24	498
40	0	0	0	0.52	33.49	494	33.39	495
50	0	0	0	0.52	33.64	492	33.53	493
60	0	0	0	0.52	33.79	490	33.68	491
70	0	0	0	0.52	33.94	488	33.83	489
80	0	0	0	0.52	34.09	485	33.97	487
90	0	0	0	0.52	34.2	484	34.12	485
100	0	0	0	0.52	34.3	483	34.27	483
110	0	0	0	0.52	34.4	481	34.4	481
120	0	0	0	0.52	34.5	480	34.5	480
130	0	0	0	0.52	34.6	479	34.6	479
167	0	0	0	0.52	34.96	474	34.96	474
212	0	0	0	0.52	35.39	468	35.39	468

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.339

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-0
100.00	0-9	0-10	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-10
125.00	1-1	1-4	1-7	1-10	2-0	2-2	2-5	2-7	2-9	2-10
150.00	1-7	1-11	2-3	2-7	2-11	3-2	3-5	3-8	3-11	4-1
175.00	2-2	2-8	3-1	3-6	3-11	4-4	4-8	5-0	5-4	5-6
200.00	2-11	3-5	4-0	4-7	5-2	5-8	6-2	6-7	6-11	7-3

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-0
100.00	0-10	0-11	1-1	1-3	1-5	1-6	1-7	1-8	1-9	1-10
125.00	1-3	1-6	1-9	1-11	2-2	2-4	2-6	2-7	2-9	2-10
150.00	1-9	2-2	2-6	2-10	3-1	3-5	3-7	3-9	3-11	4-1
175.00	2-5	2-11	3-5	3-10	4-3	4-7	4-11	5-1	5-4	5-6
200.00	3-2	3-10	4-5	5-0	5-6	6-0	6-5	6-8	6-11	7-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.340

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-5	1-6
125.00	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4
150.00	2-7	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-4
175.00	3-7	3-8	3-10	3-11	4-0	4-2	4-3	4-4	4-5	4-6
200.00	4-8	4-10	5-0	5-1	5-3	5-5	5-7	5-8	5-10	5-11
225.00	5-11	6-1	6-4	6-6	6-8	6-10	7-0	7-2	7-4	7-6
250.00	7-3	7-6	7-9	8-0	8-3	8-5	8-8	8-11	9-1	9-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-5	1-5	1-6
125.00	1-10	1-11	2-0	2-0	2-1	2-2	2-2	2-3	2-3	2-4
150.00	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-3	3-4
175.00	3-8	3-9	3-11	4-0	4-1	4-3	4-4	4-5	4-6	4-6
200.00	4-9	4-11	5-1	5-3	5-5	5-6	5-8	5-9	5-10	5-11
225.00	6-0	6-3	6-5	6-7	6-10	7-0	7-2	7-3	7-5	7-6
250.00	7-5	7-8	7-11	8-2	8-5	8-8	8-10	9-0	9-1	9-3

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STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.341

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2
175.00	3-10	3-11	4-0	4-0	4-1	4-1	4-2	4-2	4-3	4-4
200.00	5-1	5-1	5-2	5-3	5-4	5-4	5-5	5-6	5-7	5-7
225.00	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-0	7-1
250.00	7-11	8-0	8-1	8-2	8-4	8-5	8-6	8-7	8-8	8-9
275.00	9-6	9-8	9-10	9-11	10-0	10-2	10-3	10-5	10-6	10-7
300.00	11-4	11-6	11-8	11-10	11-11	12-1	12-3	12-5	12-6	12-8
325.00	13-4	13-6	13-8	13-10	14-0	14-2	14-4	14-6	14-8	14-10
350.00	15-6	15-8	15-11	16-1	16-3	16-6	16-8	16-10	17-1	17-3
375.00	17-9	18-0	18-3	18-6	18-8	18-11	19-2	19-5	19-7	19-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-1	3-2	3-2
175.00	3-11	3-11	4-0	4-1	4-1	4-2	4-2	4-3	4-3	4-4
200.00	5-1	5-2	5-3	5-3	5-4	5-5	5-6	5-6	5-7	5-7
225.00	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-1
250.00	7-11	8-1	8-2	8-3	8-4	8-6	8-7	8-8	8-8	8-9
275.00	9-7	9-9	9-11	10-0	10-2	10-3	10-5	10-6	10-6	10-7
300.00	11-5	11-7	11-9	11-11	12-1	12-3	12-4	12-5	12-7	12-8
325.00	13-5	13-8	13-10	14-0	14-2	14-4	14-6	14-7	14-9	14-10
350.00	15-7	15-10	16-0	16-3	16-5	16-8	16-10	17-0	17-1	17-3
375.00	17-11	18-2	18-5	18-8	18-10	19-1	19-4	19-6	19-8	19-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.342

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-2	5-3	5-3	5-4	5-4	5-4	5-5	5-5	5-6	5-6
225.00	6-7	6-7	6-8	6-8	6-9	6-10	6-10	6-11	6-11	7-0
250.00	8-1	8-2	8-3	8-3	8-4	8-5	8-5	8-6	8-7	8-7
275.00	9-10	9-11	9-11	10-0	10-1	10-2	10-3	10-4	10-4	10-5
300.00	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-4	12-5
325.00	13-9	13-10	13-11	14-0	14-1	14-2	14-4	14-5	14-6	14-7
350.00	15-11	16-0	16-2	16-3	16-4	16-6	16-7	16-8	16-10	16-11
375.00	18-3	18-5	18-6	18-8	18-10	18-11	19-1	19-2	19-4	19-5
400.00	20-10	20-11	21-1	21-3	21-5	21-7	21-8	21-10	22-0	22-1
425.00	23-6	23-8	23-10	24-0	24-2	24-4	24-6	24-8	24-10	25-0
450.00	26-4	26-7	26-9	26-11	27-1	27-4	27-6	27-8	27-10	28-0
475.00	29-5	29-7	29-10	30-0	30-3	30-5	30-8	30-10	31-0	31-3
500.00	32-7	32-10	33-0	33-3	33-6	33-9	34-0	34-2	34-5	34-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-3	5-3	5-3	5-4	5-4	5-5	5-5	5-6	5-6	5-6
225.00	6-7	6-8	6-8	6-9	6-9	6-10	6-11	6-11	6-11	7-0
250.00	8-2	8-2	8-3	8-4	8-5	8-5	8-6	8-6	8-7	8-7
275.00	9-10	9-11	10-0	10-1	10-2	10-3	10-3	10-4	10-5	10-5
300.00	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-4	12-4	12-5
325.00	13-9	13-11	14-0	14-1	14-2	14-3	14-5	14-5	14-6	14-7
350.00	16-0	16-1	16-3	16-4	16-5	16-7	16-8	16-9	16-10	16-11
375.00	18-4	18-6	18-8	18-9	18-11	19-0	19-2	19-3	19-4	19-5
400.00	20-11	21-1	21-2	21-4	21-6	21-8	21-10	21-11	22-0	22-1
425.00	23-7	23-9	23-11	24-1	24-4	24-6	24-8	24-9	24-10	25-0
450.00	26-6	26-8	26-10	27-1	27-3	27-5	27-8	27-9	27-11	28-0
475.00	29-6	29-9	29-11	30-2	30-5	30-7	30-10	30-11	31-1	31-3
500.00	32-9	33-0	33-2	33-5	33-8	33-11	34-2	34-4	34-6	34-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.343

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-3	8-3	8-4	8-4	8-5	8-5	8-5	8-6	8-6	8-7
275.00	10-0	10-0	10-1	10-1	10-2	10-2	10-3	10-3	10-4	10-4
300.00	11-10	11-11	12-0	12-0	12-1	12-2	12-2	12-3	12-3	12-4
325.00	13-11	14-0	14-1	14-1	14-2	14-3	14-4	14-4	14-5	14-6
350.00	16-2	16-3	16-4	16-5	16-5	16-6	16-7	16-8	16-9	16-10
375.00	18-7	18-8	18-9	18-10	18-11	19-0	19-1	19-2	19-3	19-4
400.00	21-2	21-3	21-4	21-5	21-6	21-7	21-8	21-9	21-11	22-0
425.00	23-10	24-0	24-1	24-2	24-4	24-5	24-6	24-7	24-9	24-10
450.00	26-9	26-11	27-0	27-2	27-3	27-4	27-6	27-7	27-9	27-10
475.00	29-10	30-0	30-1	30-3	30-5	30-6	30-8	30-9	30-11	31-0
500.00	33-1	33-3	33-5	33-6	33-8	33-10	34-0	34-1	34-3	34-5
525.00	36-6	36-8	36-10	37-0	37-2	37-4	37-6	37-8	37-10	37-11
550.00	40-1	40-3	40-5	40-8	40-10	41-0	41-2	41-4	41-6	41-8
575.00	43-10	44-0	44-3	44-5	44-8	44-10	45-0	45-3	45-5	45-7
600.00	47-9	48-0	48-2	48-5	48-8	48-10	49-1	49-3	49-6	49-8
625.00	51-10	52-1	52-4	52-7	52-10	53-0	53-3	53-6	53-9	53-11

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-3	8-4	8-4	8-4	8-5	8-5	8-6	8-6	8-6	8-7
275.00	10-0	10-1	10-1	10-2	10-2	10-3	10-3	10-4	10-4	10-4
300.00	11-11	11-11	12-0	12-1	12-1	12-2	12-3	12-3	12-4	12-4
325.00	14-0	14-0	14-1	14-2	14-3	14-3	14-4	14-5	14-5	14-6
350.00	16-3	16-3	16-4	16-5	16-6	16-7	16-8	16-8	16-9	16-10
375.00	18-7	18-8	18-9	18-10	19-0	19-1	19-2	19-2	19-3	19-4
400.00	21-2	21-4	21-5	21-6	21-7	21-8	21-9	21-10	21-11	22-0
425.00	23-11	24-1	24-2	24-3	24-5	24-6	24-7	24-8	24-9	24-10
450.00	26-10	27-0	27-1	27-3	27-4	27-6	27-7	27-8	27-9	27-10
475.00	29-11	30-1	30-3	30-4	30-6	30-7	30-9	30-10	30-11	31-0
500.00	33-2	33-4	33-6	33-8	33-10	33-11	34-1	34-2	34-4	34-5
525.00	36-7	36-9	36-11	37-1	37-3	37-5	37-7	37-9	37-10	37-11
550.00	40-2	40-5	40-7	40-9	40-11	41-2	41-4	41-5	41-7	41-8
575.00	44-0	44-2	44-5	44-7	44-9	45-0	45-2	45-4	45-5	45-7
600.00	47-11	48-2	48-4	48-7	48-10	49-0	49-3	49-5	49-6	49-8
625.00	52-0	52-3	52-6	52-9	53-0	53-3	53-5	53-7	53-9	53-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.344

Span = 100 ft

Design Condition Cond.	Ice	Wind	K	Weight	Final Sag	Final Tension	Initial Sag	Initial Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	1.06	2500	1.06	2500*
0	0	0	0	0.52	0.29	2254	0.29	2268
30	0	0	0	0.52	0.54	1207	0.47	1384
40	0	0	0	0.52	0.68	961	0.57	1133
50	0	0	0	0.52	0.83	782	0.7	927
60	0	0	0	0.52	0.99	658	0.84	771
70	0	0	0	0.52	1.14	571	0.99	657
80	0	0	0	0.52	1.26	515	1.13	575
90	0	0	0	0.52	1.34	486	1.27	513
100	0	0	0	0.52	1.41	461	1.4	466
110	0	0	0	0.52	1.49	437	1.49	437
120	0	0	0	0.52	1.56	417	1.56	417
130	0	0	0	0.52	1.63	399	1.63	399
167	0	0	0	0.52	1.88	347	1.88	347
212	0	0	0	0.52	2.15	303	2.15	303

* Design Condition

Span = 200 ft

Design Condition Cond.	Ice	Wind	K	Weight	Final Sag	Final Tension	Initial Sag	Initial Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	4.25	2500	4.25	2500*
0	0	0	0	0.52	2.94	886	2.78	935
30	0	0	0	0.52	3.59	726	3.41	762
40	0	0	0	0.52	3.79	688	3.61	721
50	0	0	0	0.52	3.98	655	3.8	685
60	0	0	0	0.52	4.16	626	3.98	654
70	0	0	0	0.52	4.34	600	4.16	626
80	0	0	0	0.52	4.51	577	4.33	601
90	0	0	0	0.52	4.64	562	4.5	579
100	0	0	0	0.52	4.74	550	4.66	559
110	0	0	0	0.52	4.84	539	4.82	541
120	0	0	0	0.52	4.94	527	4.94	527
130	0	0	0	0.52	5.04	517	5.04	517
167	0	0	0	0.52	5.39	484	5.39	484
212	0	0	0	0.52	5.8	450	5.8	450

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.345

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	9.58	2500	9.58	2500*
0	0	0	0	0.52	8.31	706	8.15	720
30	0	0	0	0.52	8.92	658	8.74	671
40	0	0	0	0.52	9.11	644	8.94	657
50	0	0	0	0.52	9.3	631	9.12	644
60	0	0	0	0.52	9.49	619	9.31	631
70	0	0	0	0.52	9.68	607	9.49	619
80	0	0	0	0.52	9.86	596	9.67	608
90	0	0	0	0.52	10.01	587	9.85	597
100	0	0	0	0.52	10.12	581	10.02	586
110	0	0	0	0.52	10.23	574	10.19	577
120	0	0	0	0.52	10.35	568	10.35	568
130	0	0	0	0.52	10.46	562	10.46	562
167	0	0	0	0.52	10.86	541	10.86	541
212	0	0	0	0.52	11.33	519	11.33	519

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	17.08	2500	17.08	2500*
0	0	0	0	0.52	15.83	661	15.68	668
30	0	0	0	0.52	16.42	638	16.25	644
40	0	0	0	0.52	16.62	630	16.44	637
50	0	0	0	0.52	16.81	623	16.63	630
60	0	0	0	0.52	17	616	16.81	623
70	0	0	0	0.52	17.18	610	16.99	616
80	0	0	0	0.52	17.37	603	17.18	610
90	0	0	0	0.52	17.53	598	17.36	604
100	0	0	0	0.52	17.65	594	17.53	598
110	0	0	0	0.52	17.77	590	17.71	592
120	0	0	0	0.52	17.89	586	17.89	586
130	0	0	0	0.52	18	582	18	582
167	0	0	0	0.52	18.43	569	18.43	569
212	0	0	0	0.52	18.94	554	18.94	554

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.346

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	26.81	2500	26.81	2500*
0	0	0	0	0.52	25.56	642	25.41	646
30	0	0	0	0.52	26.14	628	25.98	632
40	0	0	0	0.52	26.34	624	26.16	628
50	0	0	0	0.52	26.53	619	26.35	624
60	0	0	0	0.52	26.72	615	26.53	619
70	0	0	0	0.52	26.9	611	26.72	615
80	0	0	0	0.52	27.09	607	26.9	611
90	0	0	0	0.52	27.26	603	27.08	607
100	0	0	0	0.52	27.38	601	27.26	603
110	0	0	0	0.52	27.5	598	27.44	599
120	0	0	0	0.52	27.62	595	27.62	596
130	0	0	0	0.52	27.75	593	27.75	593
167	0	0	0	0.52	28.19	584	28.19	584
212	0	0	0	0.52	28.72	573	28.72	573

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.347

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9	0-10
100.00	0-5	0-6	0-7	0-8	0-10	1-0	1-2	1-3	1-5	1-6
125.00	0-7	0-9	0-11	1-1	1-4	1-7	1-9	2-0	2-2	2-4
150.00	0-11	1-1	1-3	1-7	1-11	2-3	2-7	2-10	3-2	3-4
175.00	1-2	1-5	1-9	2-2	2-7	3-0	3-6	3-11	4-3	4-7
200.00	1-7	1-11	2-4	2-10	3-4	4-0	4-6	5-1	5-7	6-0

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9	0-10	0-10
100.00	0-5	0-6	0-8	0-10	1-0	1-2	1-3	1-4	1-5	1-6
125.00	0-8	0-10	1-1	1-4	1-7	1-9	2-0	2-1	2-2	2-4
150.00	1-0	1-3	1-6	1-10	2-3	2-7	2-10	3-0	3-2	3-4
175.00	1-4	1-8	2-1	2-7	3-0	3-6	3-10	4-1	4-4	4-7
200.00	1-9	2-2	2-8	3-4	3-11	4-7	5-1	5-4	5-8	6-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11
150.00	1-10	1-11	2-0	2-2	2-3	2-4	2-5	2-6	2-7	2-9
175.00	2-5	2-7	2-9	2-11	3-1	3-2	3-4	3-5	3-7	3-8
200.00	3-3	3-5	3-7	3-10	4-0	4-2	4-4	4-6	4-8	4-10
225.00	4-1	4-4	4-7	4-10	5-1	5-3	5-6	5-8	5-11	6-1
250.00	5-0	5-4	5-8	5-11	6-3	6-6	6-9	7-0	7-3	7-6

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-2	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-10	1-11
150.00	1-11	2-0	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
175.00	2-7	2-9	2-11	3-1	3-2	3-4	3-5	3-7	3-8	3-8
200.00	3-5	3-7	3-9	4-0	4-2	4-4	4-6	4-8	4-9	4-10
225.00	4-3	4-6	4-9	5-0	5-3	5-6	5-9	5-10	6-0	6-2
250.00	5-3	5-7	5-11	6-3	6-6	6-9	7-1	7-3	7-5	7-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-2	2-3	2-3	2-4	2-4	2-5	2-6	2-6	2-7
175.00	2-11	3-0	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-6
200.00	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-4	4-5	4-6
225.00	4-10	4-11	5-0	5-2	5-3	5-4	5-5	5-6	5-8	5-9
250.00	5-11	6-1	6-2	6-4	6-6	6-7	6-9	6-10	6-11	7-1
275.00	7-2	7-4	7-6	7-8	7-10	8-0	8-1	8-3	8-5	8-7
300.00	8-7	8-9	8-11	9-1	9-4	9-6	9-8	9-10	10-0	10-2
325.00	10-0	10-3	10-6	10-9	10-11	11-2	11-4	11-7	11-9	12-0
350.00	11-8	11-11	12-2	12-5	12-8	12-11	13-2	13-5	13-8	13-11
375.00	13-4	13-8	14-0	14-3	14-7	14-10	15-1	15-5	15-8	15-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-3	2-3	2-4	2-4	2-5	2-6	2-6	2-6	2-7
175.00	3-0	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-5	3-6
200.00	3-10	4-0	4-1	4-2	4-3	4-4	4-5	4-5	4-6	4-7
225.00	4-11	5-0	5-1	5-3	5-4	5-5	5-6	5-8	5-8	5-9
250.00	6-1	6-2	6-4	6-5	6-7	6-9	6-10	6-11	7-0	7-1
275.00	7-4	7-6	7-8	7-10	8-0	8-2	8-3	8-5	8-6	8-7
300.00	8-9	8-11	9-1	9-4	9-6	9-8	9-10	10-0	10-1	10-3
325.00	10-3	10-6	10-8	10-11	11-2	11-4	11-7	11-9	11-11	12-0
350.00	11-10	12-2	12-5	12-8	12-11	13-2	13-5	13-8	13-9	13-11
375.00	13-8	13-11	14-3	14-7	14-10	15-2	15-5	15-8	15-10	16-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.350

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-0	4-1	4-1	4-2	4-2	4-3	4-3	4-4	4-5	4-5
225.00	5-1	5-2	5-2	5-3	5-4	5-4	5-5	5-6	5-6	5-7
250.00	6-3	6-4	6-5	6-6	6-7	6-8	6-8	6-9	6-10	6-11
275.00	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-4
300.00	9-0	9-2	9-3	9-4	9-5	9-7	9-8	9-9	9-10	9-11
325.00	10-7	10-9	10-10	11-0	11-1	11-3	11-4	11-5	11-7	11-8
350.00	12-3	12-5	12-7	12-9	12-10	13-0	13-2	13-3	13-5	13-7
375.00	14-1	14-3	14-5	14-7	14-9	14-11	15-1	15-3	15-5	15-7
400.00	16-1	16-3	16-5	16-8	16-10	17-0	17-2	17-4	17-6	17-9
425.00	18-2	18-4	18-7	18-9	19-0	19-2	19-5	19-7	19-10	20-0
450.00	20-4	20-7	20-10	21-1	21-3	21-6	21-9	22-0	22-2	22-5
475.00	22-8	22-11	23-2	23-6	23-9	24-0	24-3	24-6	24-9	25-0
500.00	25-2	25-5	25-9	26-0	26-4	26-7	26-10	27-2	27-5	27-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-1	4-1	4-2	4-2	4-3	4-3	4-4	4-4	4-5	4-5
225.00	5-2	5-2	5-3	5-4	5-4	5-5	5-6	5-6	5-7	5-7
250.00	6-4	6-5	6-6	6-7	6-8	6-8	6-9	6-10	6-11	6-11
275.00	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-4	8-5
300.00	9-1	9-3	9-4	9-5	9-7	9-8	9-9	9-10	9-11	10-0
325.00	10-8	10-10	11-0	11-1	11-3	11-4	11-5	11-7	11-8	11-9
350.00	12-5	12-7	12-9	12-10	13-0	13-2	13-3	13-5	13-6	13-7
375.00	14-3	14-5	14-7	14-9	14-11	15-1	15-3	15-5	15-6	15-7
400.00	16-3	16-5	16-7	16-10	17-0	17-2	17-4	17-6	17-8	17-9
425.00	18-4	18-7	18-9	19-0	19-2	19-5	19-7	19-10	19-11	20-1
450.00	20-7	20-10	21-0	21-3	21-6	21-9	22-0	22-2	22-4	22-6
475.00	22-11	23-2	23-5	23-9	24-0	24-3	24-6	24-9	24-11	25-1
500.00	25-5	25-8	26-0	26-4	26-7	26-11	27-2	27-5	27-7	27-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.351

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-9	6-10	6-10
275.00	7-9	7-10	7-11	7-11	8-0	8-1	8-1	8-2	8-3	8-3
300.00	9-3	9-4	9-5	9-6	9-6	9-7	9-8	9-9	9-9	9-10
325.00	10-10	10-11	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-7
350.00	12-7	12-8	12-10	12-11	13-0	13-1	13-2	13-3	13-4	13-5
375.00	14-6	14-7	14-8	14-10	14-11	15-0	15-1	15-2	15-4	15-5
400.00	16-6	16-7	16-9	16-10	16-11	17-1	17-2	17-4	17-5	17-6
425.00	18-7	18-9	18-11	19-0	19-2	19-3	19-5	19-7	19-8	19-10
450.00	20-10	21-0	21-2	21-4	21-6	21-7	21-9	21-11	22-1	22-3
475.00	23-3	23-5	23-7	23-9	23-11	24-1	24-3	24-5	24-7	24-9
500.00	25-9	26-0	26-2	26-4	26-6	26-9	26-11	27-1	27-3	27-5
525.00	28-5	28-8	28-10	29-1	29-3	29-6	29-8	29-10	30-1	30-3
550.00	31-3	31-5	31-8	31-11	32-2	32-4	32-7	32-10	33-0	33-3
575.00	34-2	34-5	34-8	34-11	35-2	35-5	35-7	35-10	36-1	36-4
600.00	37-2	37-6	37-9	38-0	38-3	38-6	38-10	39-1	39-4	39-7
625.00	40-4	40-8	41-0	41-3	41-7	41-10	42-1	42-5	42-8	43-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-6	6-6	6-7	6-7	6-8	6-8	6-9	6-10	6-10	6-10
275.00	7-10	7-11	7-11	8-0	8-1	8-1	8-2	8-3	8-3	8-4
300.00	9-4	9-5	9-6	9-6	9-7	9-8	9-9	9-9	9-10	9-11
325.00	10-11	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-7
350.00	12-8	12-9	12-11	13-0	13-1	13-2	13-3	13-4	13-5	13-5
375.00	14-7	14-8	14-9	14-11	15-0	15-1	15-3	15-4	15-5	15-5
400.00	16-7	16-9	16-10	16-11	17-1	17-2	17-4	17-5	17-6	17-7
425.00	18-9	18-10	19-0	19-2	19-3	19-5	19-7	19-8	19-9	19-10
450.00	21-0	21-2	21-4	21-6	21-7	21-9	21-11	22-1	22-2	22-3
475.00	23-5	23-7	23-9	23-11	24-1	24-3	24-5	24-7	24-8	24-10
500.00	25-11	26-2	26-4	26-6	26-9	26-11	27-1	27-3	27-5	27-6
525.00	28-7	28-10	29-1	29-3	29-6	29-8	29-11	30-1	30-2	30-4
550.00	31-5	31-8	31-11	32-1	32-4	32-7	32-10	33-0	33-2	33-4
575.00	34-4	34-7	34-10	35-1	35-5	35-8	35-10	36-1	36-3	36-5
600.00	37-5	37-9	38-0	38-3	38-6	38-10	39-1	39-4	39-6	39-8
625.00	40-8	40-11	41-3	41-6	41-10	42-2	42-5	42-8	42-11	43-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.352

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	0.88	3000	0.88	3000*
0	0	0	0	0.52	0.21	3024	0.21	3024
30	0	0	0	0.52	0.34	1887	0.31	2100
40	0	0	0	0.52	0.42	1530	0.36	1796
50	0	0	0	0.52	0.53	1218	0.43	1503
60	0	0	0	0.52	0.67	969	0.53	1236
70	0	0	0	0.52	0.82	788	0.64	1008
80	0	0	0	0.52	0.98	663	0.78	830
90	0	0	0	0.52	1.07	606	0.93	700
100	0	0	0	0.52	1.15	566	1.07	605
110	0	0	0	0.52	1.22	531	1.21	536
120	0	0	0	0.52	1.3	499	1.3	499
130	0	0	0	0.52	1.38	472	1.38	472
167	0	0	0	0.52	1.64	396	1.64	396
212	0	0	0	0.52	1.94	335	1.94	335

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	3.54	3000	3.54	3000*
0	0	0	0	0.52	1.81	1434	1.65	1577
30	0	0	0	0.52	2.56	1018	2.31	1126
40	0	0	0	0.52	2.8	931	2.54	1025
50	0	0	0	0.52	3.03	860	2.76	941
60	0	0	0	0.52	3.25	801	2.98	872
70	0	0	0	0.52	3.46	752	3.2	815
80	0	0	0	0.52	3.66	710	3.4	765
90	0	0	0	0.52	3.84	678	3.6	723
100	0	0	0	0.52	3.96	658	3.79	687
110	0	0	0	0.52	4.07	640	3.97	655
120	0	0	0	0.52	4.18	624	4.15	627
130	0	0	0	0.52	4.29	607	4.29	607
167	0	0	0	0.52	4.68	557	4.68	557
212	0	0	0	0.52	5.12	509	5.12	509

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.353

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	7.97	3000	7.97	3000*
0	0	0	0	0.52	6.21	944	5.95	984
30	0	0	0	0.52	6.97	841	6.7	875
40	0	0	0	0.52	7.21	813	6.94	845
50	0	0	0	0.52	7.44	788	7.17	818
60	0	0	0	0.52	7.67	765	7.39	793
70	0	0	0	0.52	7.89	743	7.61	771
80	0	0	0	0.52	8.11	724	7.83	749
90	0	0	0	0.52	8.32	705	8.04	730
100	0	0	0	0.52	8.45	694	8.24	712
110	0	0	0	0.52	8.58	684	8.45	695
120	0	0	0	0.52	8.71	674	8.65	679
130	0	0	0	0.52	8.84	664	8.84	664
167	0	0	0	0.52	9.3	632	9.3	632
212	0	0	0	0.52	9.83	598	9.83	598

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	14.21	3000	14.21	3000*
0	0	0	0	0.52	12.47	837	12.22	854
30	0	0	0	0.52	13.2	791	12.94	807
40	0	0	0	0.52	13.44	777	13.17	793
50	0	0	0	0.52	13.67	764	13.39	780
60	0	0	0	0.52	13.9	752	13.62	767
70	0	0	0	0.52	14.12	740	13.84	755
80	0	0	0	0.52	14.34	729	14.06	744
90	0	0	0	0.52	14.56	718	14.27	732
100	0	0	0	0.52	14.72	711	14.48	722
110	0	0	0	0.52	14.85	704	14.69	712
120	0	0	0	0.52	14.99	698	14.9	702
130	0	0	0	0.52	15.12	692	15.11	692
167	0	0	0	0.52	15.62	670	15.62	670
212	0	0	0	0.52	16.21	646	16.21	646

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.354

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.12	22.26	3000	22.26	3000*
0	0	0	0	0.52	20.55	796	20.3	806
30	0	0	0	0.52	21.26	770	20.99	780
40	0	0	0	0.52	21.49	762	21.22	771
50	0	0	0	0.52	21.72	754	21.45	763
60	0	0	0	0.52	21.95	746	21.67	756
70	0	0	0	0.52	22.18	739	21.89	748
80	0	0	0	0.52	22.4	731	22.11	741
90	0	0	0	0.52	22.62	724	22.33	734
100	0	0	0	0.52	22.78	719	22.54	727
110	0	0	0	0.52	22.93	715	22.76	720
120	0	0	0	0.52	23.07	710	22.97	713
130	0	0	0	0.52	23.21	706	23.18	707
167	0	0	0	0.52	23.73	691	23.73	691
212	0	0	0	0.52	24.34	674	24.34	674

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.355

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-4	0-4	0-5	0-6	0-7	0-8
100.00	0-3	0-4	0-4	0-5	0-6	0-8	0-9	0-11	1-1	1-3
125.00	0-5	0-6	0-7	0-8	0-10	1-0	1-3	1-5	1-8	1-11
150.00	0-7	0-8	0-10	1-0	1-2	1-5	1-9	2-1	2-5	2-9
175.00	0-10	0-11	1-1	1-4	1-7	2-0	2-5	2-10	3-3	3-9
200.00	1-1	1-3	1-5	1-9	2-1	2-7	3-2	3-9	4-4	4-10

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-4	0-5	0-6	0-7	0-7	0-8	0-8
100.00	0-3	0-4	0-5	0-6	0-8	0-10	1-0	1-1	1-2	1-3
125.00	0-5	0-6	0-8	0-10	1-1	1-3	1-6	1-8	1-10	1-11
150.00	0-8	0-9	0-11	1-2	1-6	1-10	2-3	2-5	2-7	2-9
175.00	0-11	1-1	1-4	1-8	2-1	2-6	3-0	3-3	3-6	3-9
200.00	1-2	1-5	1-8	2-2	2-8	3-4	3-11	4-4	4-7	4-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.356

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0
125.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
150.00	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-0	2-2	2-3
175.00	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-1
200.00	2-1	2-4	2-6	2-9	3-0	3-2	3-5	3-7	3-9	4-0
225.00	2-8	2-11	3-3	3-6	3-9	4-1	4-4	4-7	4-10	5-0
250.00	3-3	3-7	4-0	4-4	4-8	5-0	5-4	5-7	5-11	6-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-0
125.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7
150.00	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-3	2-3
175.00	1-9	1-11	2-2	2-4	2-6	2-8	2-10	2-11	3-0	3-1
200.00	2-4	2-7	2-10	3-0	3-3	3-6	3-8	3-10	3-11	4-1
225.00	2-11	3-3	3-6	3-10	4-1	4-5	4-8	4-10	5-0	5-2
250.00	3-7	4-0	4-4	4-9	5-1	5-5	5-9	6-0	6-2	6-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.357

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-1	2-1
175.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-10
200.00	2-10	3-0	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-9
225.00	3-8	3-9	3-11	4-0	4-2	4-3	4-5	4-6	4-8	4-9
250.00	4-6	4-8	4-10	5-0	5-2	5-3	5-5	5-7	5-9	5-10
275.00	5-5	5-8	5-10	6-0	6-3	6-5	6-7	6-9	6-11	7-1
300.00	6-5	6-8	6-11	7-2	7-5	7-7	7-10	8-0	8-3	8-5
325.00	7-7	7-10	8-2	8-5	8-8	8-11	9-2	9-5	9-8	9-11
350.00	8-9	9-1	9-5	9-9	10-1	10-4	10-8	10-11	11-3	11-6
375.00	10-1	10-6	10-10	11-2	11-7	11-11	12-3	12-7	12-11	13-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-8	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-1	2-2
175.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-10	2-11
200.00	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9	3-10
225.00	3-9	3-11	4-1	4-2	4-4	4-5	4-7	4-8	4-9	4-10
250.00	4-8	4-10	5-0	5-2	5-4	5-6	5-8	5-9	5-10	5-11
275.00	5-8	5-10	6-1	6-3	6-5	6-8	6-10	7-0	7-1	7-3
300.00	6-9	7-0	7-3	7-5	7-8	7-11	8-1	8-4	8-5	8-7
325.00	7-11	8-2	8-6	8-9	9-0	9-3	9-6	9-9	9-11	10-1
350.00	9-2	9-6	9-10	10-2	10-5	10-9	11-0	11-4	11-6	11-8
375.00	10-6	10-11	11-3	11-8	12-0	12-4	12-8	13-0	13-3	13-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.358

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-2	3-3	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8
225.00	4-0	4-1	4-2	4-3	4-4	4-4	4-5	4-6	4-7	4-8
250.00	4-11	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9
275.00	6-0	6-1	6-3	6-4	6-5	6-6	6-8	6-9	6-10	6-11
300.00	7-2	7-3	7-5	7-6	7-8	7-9	7-11	8-0	8-2	8-3
325.00	8-5	8-6	8-8	8-10	9-0	9-2	9-3	9-5	9-7	9-8
350.00	9-9	9-11	10-1	10-3	10-5	10-7	10-9	10-11	11-1	11-3
375.00	11-2	11-4	11-7	11-9	12-0	12-2	12-4	12-6	12-9	12-11
400.00	12-8	12-11	13-2	13-5	13-7	13-10	14-1	14-3	14-6	14-8
425.00	14-4	14-7	14-10	15-1	15-5	15-8	15-10	16-1	16-4	16-7
450.00	16-1	16-5	16-8	16-11	17-3	17-6	17-10	18-1	18-4	18-7
475.00	17-11	18-3	18-7	18-11	19-3	19-6	19-10	20-2	20-5	20-9
500.00	19-10	20-3	20-7	20-11	21-4	21-8	22-0	22-4	22-8	23-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-3	3-4	3-4	3-5	3-6	3-6	3-7	3-8	3-8	3-8
225.00	4-1	4-2	4-3	4-4	4-5	4-6	4-6	4-7	4-8	4-8
250.00	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10
275.00	6-1	6-3	6-4	6-5	6-7	6-8	6-9	6-11	6-11	7-0
300.00	7-3	7-5	7-7	7-8	7-10	7-11	8-1	8-2	8-3	8-4
325.00	8-7	8-9	8-10	9-0	9-2	9-4	9-6	9-7	9-8	9-10
350.00	9-11	10-1	10-3	10-6	10-8	10-10	11-0	11-2	11-3	11-4
375.00	11-5	11-7	11-10	12-0	12-3	12-5	12-7	12-10	12-11	13-1
400.00	13-0	13-2	13-5	13-8	13-11	14-1	14-4	14-7	14-9	14-10
425.00	14-8	14-11	15-2	15-5	15-8	15-11	16-2	16-5	16-7	16-9
450.00	16-5	16-9	17-0	17-4	17-7	17-11	18-2	18-5	18-8	18-10
475.00	18-4	18-8	19-0	19-3	19-7	19-11	20-3	20-7	20-9	21-0
500.00	20-3	20-8	21-0	21-5	21-9	22-1	22-5	22-9	23-0	23-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.359

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-2	5-3	5-4	5-4	5-5	5-6	5-6	5-7	5-7	5-8
275.00	6-3	6-4	6-5	6-6	6-7	6-7	6-8	6-9	6-10	6-10
300.00	7-6	7-7	7-8	7-9	7-9	7-10	7-11	8-0	8-1	8-2
325.00	8-9	8-10	8-11	9-1	9-2	9-3	9-4	9-5	9-6	9-7
350.00	10-2	10-3	10-5	10-6	10-7	10-9	10-10	10-11	11-0	11-2
375.00	11-8	11-10	11-11	12-1	12-2	12-4	12-5	12-7	12-8	12-9
400.00	13-3	13-5	13-7	13-9	13-10	14-0	14-2	14-3	14-5	14-7
425.00	15-0	15-2	15-4	15-6	15-8	15-10	16-0	16-1	16-3	16-5
450.00	16-10	17-0	17-2	17-4	17-7	17-9	17-11	18-1	18-3	18-5
475.00	18-9	18-11	19-2	19-4	19-7	19-9	19-11	20-2	20-4	20-6
500.00	20-9	21-0	21-3	21-5	21-8	21-11	22-1	22-4	22-7	22-9
525.00	22-11	23-2	23-5	23-8	23-11	24-2	24-5	24-7	24-10	25-1
550.00	25-2	25-5	25-8	26-0	26-3	26-6	26-9	27-0	27-4	27-7
575.00	27-6	27-9	28-1	28-5	28-8	29-0	29-3	29-7	29-10	30-1
600.00	29-11	30-3	30-7	30-11	31-3	31-7	31-10	32-2	32-6	32-10
625.00	32-6	32-10	33-2	33-7	33-11	34-3	34-7	34-11	35-3	35-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-3	5-4	5-4	5-5	5-6	5-6	5-7	5-8	5-8	5-9
275.00	6-4	6-5	6-6	6-7	6-8	6-8	6-9	6-10	6-11	6-11
300.00	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-2	8-3
325.00	8-10	9-0	9-1	9-2	9-3	9-4	9-5	9-7	9-7	9-8
350.00	10-3	10-5	10-6	10-8	10-9	10-10	11-0	11-1	11-2	11-3
375.00	11-10	11-11	12-1	12-2	12-4	12-6	12-7	12-9	12-10	12-11
400.00	13-5	13-7	13-9	13-11	14-0	14-2	14-4	14-6	14-7	14-8
425.00	15-2	15-4	15-6	15-8	15-10	16-0	16-2	16-4	16-5	16-7
450.00	17-0	17-3	17-5	17-7	17-9	17-11	18-2	18-4	18-5	18-7
475.00	19-0	19-2	19-5	19-7	19-10	20-0	20-3	20-5	20-7	20-8
500.00	21-0	21-3	21-6	21-9	21-11	22-2	22-5	22-7	22-9	22-11
525.00	23-2	23-5	23-8	23-11	24-2	24-5	24-8	24-11	25-2	25-3
550.00	25-5	25-9	26-0	26-4	26-7	26-10	27-1	27-5	27-7	27-9
575.00	27-10	28-2	28-5	28-9	29-1	29-4	29-8	29-11	30-2	30-4
600.00	30-4	30-8	31-0	31-4	31-8	32-0	32-4	32-7	32-10	33-1
625.00	32-11	33-3	33-8	34-0	34-4	34-8	35-1	35-5	35-8	35-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.360

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 636 - 24/7 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION
- 1000 LB TENSION ---------- 812.3
- 1500 LB TENSION ---------- 812.11
- 2000 LB TENSION ---------- 812.19
- 2500 LB TENSION ---------- 812.27
- 3000 LB TENSION ---------- 812.35

G.O. 95 HEAVY LOADING CONDITION
- 1000 LB TENSION ---------- 812.43
- 1500 LB TENSION ---------- 812.51
- 2000 LB TENSION ---------- 812.59
- 2500 LB TENSION ---------- 812.67
- 3000 LB TENSION ---------- 812.75

SDG&E EXTRA HEAVY LOADING CONDITION
- 1000 LB TENSION ---------- 812.83
- 1500 LB TENSION ---------- 812.89
- 2000 LB TENSION ---------- 812.97
- 2500 LB TENSION ---------- 812.105
- 3000 LB TENSION ---------- 812.113

65 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 812.121
- 1500 LB TENSION ---------- 812.129
- 2000 LB TENSION ---------- 812.137
- 2500 LB TENSION ---------- 812.145
- 3000 LB TENSION ---------- 812.153

65 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 812.161
- 1500 LB TENSION ---------- 812.169
- 2000 LB TENSION ---------- 812.177
- 2500 LB TENSION ---------- 812.185
- 3000 LB TENSION ---------- 812.193

85 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 812.201
- 1500 LB TENSION ---------- 812.209
- 2000 LB TENSION ---------- 812.217
- 2500 LB TENSION ---------- 812.225
- 3000 LB TENSION ---------- 812.233

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SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 636 - 24/7 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

85 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 812.241
- 1500 LB TENSION ---------- 812.249
- 2000 LB TENSION ---------- 812.257
- 2500 LB TENSION ---------- 812.265
- 3000 LB TENSION ---------- 812.273

111 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 812.281
- 1500 LB TENSION ---------- 812.289
- 2000 LB TENSION ---------- 812.297
- 2500 LB TENSION ---------- 812.305
- 3000 LB TENSION ---------- 812.313

111 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 812.321
- 1500 LB TENSION ---------- 812.329
- 2000 LB TENSION ---------- 812.337
- 2500 LB TENSION ---------- 812.345
- 3000 LB TENSION ---------- 812.353

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REFERENCE:

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

636 - 24/7 ACSR/AW TABLE OF CONTENTS

OH812.2

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.02	1.28	995	1.28	1000*
25	0	0	0	0.785	1.23	796	1.22	804
30	0	0	0	0.785	1.3	753	1.29	760
40	0	0	0	0.785	1.44	682	1.42	689
50	0	0	0	0.785	1.57	627	1.55	634
60	0	0	0	0.785	1.68	583	1.67	589
70	0	0	0	0.785	1.8	547	1.78	552
80	0	0	0	0.785	1.9	516	1.89	521
90	0	0	0	0.785	2.01	490	1.99	494
100	0	0	0	0.785	2.07	474	2.07	474
110	0	0	0	0.785	2.13	461	2.13	461
120	0	0	0	0.785	2.19	449	2.19	449
130	0	0	0	0.785	2.24	438	2.24	438
167	0	0	0	0.785	2.44	403	2.44	403
212	0	0	0	0.785	2.67	369	2.67	369

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.02	5.15	993	5.11	1000*
25	0	0	0	0.785	5.1	772	5.05	779
30	0	0	0	0.785	5.17	761	5.13	767
40	0	0	0	0.785	5.33	739	5.28	745
50	0	0	0	0.785	5.48	719	5.43	725
60	0	0	0	0.785	5.62	700	5.58	706
70	0	0	0	0.785	5.76	683	5.72	689
80	0	0	0	0.785	5.9	667	5.86	673
90	0	0	0	0.785	6.04	652	5.99	657
100	0	0	0	0.785	6.17	638	6.12	643
110	0	0	0	0.785	6.26	630	6.26	630
120	0	0	0	0.785	6.34	622	6.34	622
130	0	0	0	0.785	6.42	614	6.42	614
167	0	0	0	0.785	6.71	588	6.71	588
212	0	0	0	0.785	7.05	560	7.05	560

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.3

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.02	11.59	996	11.54	1000*
25	0	0	0	0.785	11.53	770	11.48	774
30	0	0	0	0.785	11.61	765	11.56	768
40	0	0	0	0.785	11.77	755	11.72	758
50	0	0	0	0.785	11.93	745	11.87	748
60	0	0	0	0.785	12.08	736	12.03	739
70	0	0	0	0.785	12.23	727	12.18	730
80	0	0	0	0.785	12.38	718	12.33	721
90	0	0	0	0.785	12.53	710	12.47	713
100	0	0	0	0.785	12.68	701	12.62	705
110	0	0	0	0.785	12.8	695	12.76	697
120	0	0	0	0.785	12.89	690	12.89	690
130	0	0	0	0.785	12.98	685	12.98	685
167	0	0	0	0.785	13.32	668	13.32	668
212	0	0	0	0.785	13.71	650	13.71	650

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.02	20.67	998	20.62	1000*
25	0	0	0	0.785	20.61	770	20.56	772
30	0	0	0	0.785	20.69	767	20.64	769
40	0	0	0	0.785	20.85	761	20.79	763
50	0	0	0	0.785	21.01	756	20.95	758
60	0	0	0	0.785	21.17	750	21.11	752
70	0	0	0	0.785	21.32	745	21.26	747
80	0	0	0	0.785	21.48	739	21.42	741
90	0	0	0	0.785	21.63	734	21.57	736
100	0	0	0	0.785	21.79	729	21.72	731
110	0	0	0	0.785	21.92	725	21.87	726
120	0	0	0	0.785	22.02	722	22.02	722
130	0	0	0	0.785	22.12	719	22.12	719
167	0	0	0	0.785	22.47	707	22.47	707
212	0	0	0	0.785	22.9	695	22.9	695

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.02	32.46	998	32.41	1000*
25	0	0	0	0.785	32.41	770	32.35	771
30	0	0	0	0.785	32.49	768	32.43	769
40	0	0	0	0.785	32.65	764	32.59	766
50	0	0	0	0.785	32.81	761	32.75	762
60	0	0	0	0.785	32.97	757	32.91	758
70	0	0	0	0.785	33.13	754	33.06	755
80	0	0	0	0.785	33.28	750	33.22	752
90	0	0	0	0.785	33.44	747	33.37	748
100	0	0	0	0.785	33.6	743	33.53	745
110	0	0	0	0.785	33.74	740	33.68	742
120	0	0	0	0.785	33.84	738	33.84	738
130	0	0	0	0.785	33.94	736	33.94	736
167	0	0	0	0.785	34.31	728	34.31	728
212	0	0	0	0.785	34.75	720	34.75	720

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-5
100.00	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-5	2-6	2-6
125.00	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9	3-10	4-0
150.00	3-9	4-0	4-3	4-6	4-9	4-11	5-2	5-4	5-7	5-9
175.00	5-1	5-5	5-9	6-1	6-5	6-9	7-0	7-4	7-7	7-10
200.00	6-7	7-1	7-7	8-0	8-5	8-9	9-2	9-6	9-11	10-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-5
100.00	1-8	1-9	1-11	2-0	2-1	2-2	2-4	2-5	2-6	2-6
125.00	2-7	2-9	3-0	3-2	3-3	3-5	3-7	3-9	3-10	4-0
150.00	3-9	4-0	4-3	4-6	4-9	5-0	5-2	5-5	5-7	5-9
175.00	5-1	5-5	5-10	6-2	6-5	6-9	7-1	7-4	7-7	7-10
200.00	6-8	7-1	7-7	8-0	8-5	8-10	9-3	9-7	9-11	10-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.6

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11	1-11	2-0
125.00	2-8	2-9	2-9	2-10	2-11	2-11	3-0	3-0	3-1	3-1
150.00	3-11	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-6
175.00	5-3	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1
200.00	6-11	7-0	7-2	7-3	7-5	7-6	7-7	7-9	7-10	7-11
225.00	8-9	8-11	9-1	9-2	9-4	9-6	9-8	9-10	9-11	10-1
250.00	10-10	11-0	11-2	11-4	11-7	11-9	11-11	12-1	12-3	12-5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-10	1-10	1-11	1-11	1-11	2-0	2-0
125.00	2-8	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1
150.00	3-11	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-6
175.00	5-3	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1
200.00	6-11	7-0	7-2	7-3	7-5	7-6	7-8	7-9	7-10	8-0
225.00	8-9	8-11	9-1	9-3	9-4	9-6	9-8	9-10	9-11	10-1
250.00	10-10	11-0	11-2	11-5	11-7	11-9	11-11	12-1	12-3	12-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.7

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-11	3-11	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-2
175.00	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-8	5-8	5-9
200.00	7-0	7-0	7-1	7-2	7-2	7-3	7-4	7-4	7-5	7-6
225.00	8-10	8-11	9-0	9-1	9-1	9-2	9-3	9-4	9-5	9-5
250.00	10-11	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8
275.00	13-3	13-4	13-5	13-6	13-8	13-9	13-10	13-11	14-0	14-2
300.00	15-9	15-10	16-0	16-1	16-3	16-4	16-6	16-7	16-9	16-10
325.00	18-6	18-8	18-9	18-11	19-1	19-3	19-4	19-6	19-8	19-9
350.00	21-6	21-8	21-10	22-0	22-2	22-4	22-6	22-8	22-10	22-11
375.00	24-8	24-10	25-1	25-3	25-5	25-7	25-10	26-0	26-2	26-4

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-11	4-0	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-2
175.00	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-8	5-8	5-9
200.00	7-0	7-1	7-1	7-2	7-2	7-3	7-4	7-4	7-5	7-6
225.00	8-10	8-11	9-0	9-1	9-2	9-2	9-3	9-4	9-5	9-6
250.00	10-11	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8
275.00	13-3	13-4	13-5	13-7	13-8	13-9	13-10	13-11	14-1	14-2
300.00	15-9	15-11	16-0	16-2	16-3	16-4	16-6	16-7	16-9	16-10
325.00	18-6	18-8	18-10	18-11	19-1	19-3	19-4	19-6	19-8	19-10
350.00	21-6	21-8	21-10	22-0	22-2	22-4	22-6	22-8	22-10	23-0
375.00	24-8	24-10	25-1	25-3	25-5	25-8	25-10	26-0	26-2	26-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.8

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-1	7-1	7-1	7-2	7-2	7-2	7-3	7-3	7-3	7-4
225.00	8-11	9-0	9-0	9-0	9-1	9-1	9-2	9-2	9-3	9-3
250.00	11-0	11-1	11-1	11-2	11-3	11-3	11-4	11-4	11-5	11-5
275.00	13-4	13-5	13-5	13-6	13-7	13-8	13-8	13-9	13-10	13-10
300.00	15-11	15-11	16-0	16-1	16-2	16-3	16-4	16-4	16-5	16-6
325.00	18-8	18-9	18-10	18-11	19-0	19-1	19-2	19-3	19-4	19-5
350.00	21-8	21-9	21-10	21-11	22-0	22-1	22-3	22-4	22-5	22-6
375.00	24-10	25-0	25-1	25-2	25-4	25-5	25-6	25-8	25-9	25-10
400.00	28-4	28-5	28-7	28-8	28-10	28-11	29-1	29-2	29-4	29-5
425.00	32-0	32-2	32-3	32-5	32-7	32-8	32-10	33-0	33-1	33-3
450.00	35-11	36-1	36-3	36-5	36-6	36-8	36-10	37-0	37-2	37-4
475.00	40-0	40-3	40-5	40-7	40-9	40-11	41-1	41-3	41-5	41-7
500.00	44-5	44-7	44-10	45-0	45-2	45-5	45-7	45-9	46-0	46-2

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-1	7-1	7-1	7-2	7-2	7-2	7-3	7-3	7-3	7-4
225.00	8-11	9-0	9-0	9-0	9-1	9-1	9-2	9-2	9-3	9-3
250.00	11-0	11-1	11-1	11-2	11-3	11-3	11-4	11-4	11-5	11-5
275.00	13-4	13-5	13-6	13-6	13-7	13-8	13-8	13-9	13-10	13-10
300.00	15-11	15-11	16-0	16-1	16-2	16-3	16-4	16-4	16-5	16-6
325.00	18-8	18-9	18-10	18-11	19-0	19-1	19-2	19-3	19-4	19-5
350.00	21-8	21-9	21-10	21-11	22-0	22-2	22-3	22-4	22-5	22-6
375.00	24-10	25-0	25-1	25-2	25-4	25-5	25-6	25-8	25-9	25-10
400.00	28-4	28-5	28-7	28-8	28-10	28-11	29-1	29-2	29-4	29-5
425.00	32-0	32-2	32-3	32-5	32-7	32-9	32-10	33-0	33-2	33-3
450.00	35-11	36-1	36-3	36-5	36-7	36-8	36-10	37-0	37-2	37-4
475.00	40-1	40-3	40-5	40-7	40-9	40-11	41-1	41-3	41-6	41-8
500.00	44-5	44-7	44-10	45-0	45-3	45-5	45-7	45-10	46-0	46-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.9

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-1	11-2	11-2	11-3	11-3	11-3	11-4	11-4	11-4	11-5
275.00	13-6	13-6	13-6	13-7	13-7	13-8	13-8	13-9	13-9	13-10
300.00	16-0	16-1	16-1	16-2	16-2	16-3	16-4	16-4	16-5	16-5
325.00	18-10	18-11	18-11	19-0	19-0	19-1	19-2	19-2	19-3	19-3
350.00	21-10	21-11	22-0	22-0	22-1	22-2	22-3	22-3	22-4	22-5
375.00	25-1	25-2	25-3	25-4	25-5	25-5	25-6	25-7	25-8	25-9
400.00	28-7	28-8	28-9	28-10	28-11	29-0	29-1	29-2	29-3	29-3
425.00	32-4	32-5	32-6	32-7	32-8	32-9	32-10	32-11	33-0	33-1
450.00	36-3	36-4	36-5	36-6	36-8	36-9	36-10	36-11	37-0	37-2
475.00	40-5	40-6	40-8	40-9	40-10	41-0	41-1	41-2	41-4	41-5
500.00	44-10	44-11	45-1	45-2	45-4	45-5	45-7	45-8	45-10	45-11
525.00	49-6	49-7	49-9	49-11	50-0	50-2	50-4	50-5	50-7	50-9
550.00	54-4	54-6	54-8	54-10	55-0	55-1	55-3	55-5	55-7	55-9
575.00	59-6	59-8	59-10	60-0	60-2	60-4	60-6	60-8	60-10	61-0
600.00	64-10	65-0	65-3	65-5	65-7	65-9	65-11	66-1	66-4	66-6
625.00	70-6	70-8	70-10	71-1	71-3	71-5	71-8	71-10	72-0	72-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-1	11-2	11-2	11-3	11-3	11-3	11-4	11-4	11-4	11-5
275.00	13-6	13-6	13-6	13-7	13-7	13-8	13-8	13-9	13-9	13-10
300.00	16-0	16-1	16-1	16-2	16-3	16-3	16-4	16-4	16-5	16-5
325.00	18-10	18-11	18-11	19-0	19-0	19-1	19-2	19-2	19-3	19-4
350.00	21-10	21-11	22-0	22-0	22-1	22-2	22-3	22-3	22-4	22-5
375.00	25-1	25-2	25-3	25-4	25-5	25-5	25-6	25-7	25-8	25-9
400.00	28-7	28-8	28-9	28-10	28-11	29-0	29-1	29-2	29-3	29-4
425.00	32-4	32-5	32-6	32-7	32-8	32-9	32-10	32-11	33-0	33-1
450.00	36-3	36-4	36-5	36-7	36-8	36-9	36-10	36-11	37-1	37-2
475.00	40-5	40-6	40-8	40-9	40-10	41-0	41-1	41-3	41-4	41-5
500.00	44-10	45-0	45-1	45-3	45-4	45-6	45-7	45-9	45-10	45-11
525.00	49-6	49-7	49-9	49-11	50-0	50-2	50-4	50-5	50-7	50-9
550.00	54-4	54-6	54-8	54-10	55-0	55-2	55-3	55-5	55-7	55-9
575.00	59-6	59-8	59-10	60-0	60-2	60-4	60-6	60-8	60-10	61-0
600.00	64-10	65-1	65-3	65-5	65-7	65-9	65-11	66-2	66-4	66-6
625.00	70-6	70-8	70-10	71-1	71-3	71-6	71-8	71-10	72-1	72-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.10

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.02	0.88	1446	0.85	1500*
25	0	0	0	0.785	0.8	1227	0.76	1291
30	0	0	0	0.785	0.88	1114	0.84	1173
40	0	0	0	0.785	1.04	943	0.99	990
50	0	0	0	0.785	1.19	823	1.14	860
60	0	0	0	0.785	1.33	736	1.28	765
70	0	0	0	0.785	1.47	669	1.42	692
80	0	0	0	0.785	1.59	617	1.54	636
90	0	0	0	0.785	1.71	575	1.66	591
100	0	0	0	0.785	1.79	550	1.78	553
110	0	0	0	0.785	1.85	531	1.85	531
120	0	0	0	0.785	1.91	514	1.91	514
130	0	0	0	0.785	1.97	498	1.97	498
167	0	0	0	0.785	2.19	449	2.19	449
212	0	0	0	0.785	2.43	404	2.43	404

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.02	3.52	1451	3.4	1500*
25	0	0	0	0.785	3.41	1152	3.28	1199
30	0	0	0	0.785	3.52	1117	3.39	1161
40	0	0	0	0.785	3.73	1055	3.59	1094
50	0	0	0	0.785	3.93	1001	3.79	1036
60	0	0	0	0.785	4.12	955	3.99	986
70	0	0	0	0.785	4.3	914	4.17	942
80	0	0	0	0.785	4.48	878	4.35	903
90	0	0	0	0.785	4.65	845	4.53	869
100	0	0	0	0.785	4.82	816	4.7	837
110	0	0	0	0.785	4.95	795	4.86	809
120	0	0	0	0.785	5.04	780	5.02	784
130	0	0	0	0.785	5.14	765	5.14	765
167	0	0	0	0.785	5.48	718	5.48	718
212	0	0	0	0.785	5.88	670	5.88	670

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.11

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.02	7.83	1470	7.67	1500*
25	0	0	0	0.785	7.71	1148	7.54	1175
30	0	0	0	0.785	7.83	1132	7.65	1157
40	0	0	0	0.785	8.05	1100	7.87	1125
50	0	0	0	0.785	8.27	1071	8.09	1094
60	0	0	0	0.785	8.48	1044	8.31	1066
70	0	0	0	0.785	8.69	1019	8.52	1040
80	0	0	0	0.785	8.9	996	8.72	1016
90	0	0	0	0.785	9.1	974	8.93	993
100	0	0	0	0.785	9.29	954	9.12	971
110	0	0	0	0.785	9.49	934	9.32	951
120	0	0	0	0.785	9.62	922	9.51	932
130	0	0	0	0.785	9.74	911	9.7	915
167	0	0	0	0.785	10.16	873	10.16	873
212	0	0	0	0.785	10.66	833	10.66	833

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.02	13.84	1481	13.66	1500*
25	0	0	0	0.785	13.72	1150	13.53	1166
30	0	0	0	0.785	13.84	1140	13.64	1156
40	0	0	0	0.785	14.07	1121	13.87	1137
50	0	0	0	0.785	14.3	1104	14.1	1119
60	0	0	0	0.785	14.52	1087	14.33	1101
70	0	0	0	0.785	14.75	1071	14.55	1085
80	0	0	0	0.785	14.96	1055	14.77	1069
90	0	0	0	0.785	15.18	1040	14.98	1054
100	0	0	0	0.785	15.39	1026	15.2	1039
110	0	0	0	0.785	15.6	1012	15.41	1025
120	0	0	0	0.785	15.79	1001	15.61	1012
130	0	0	0	0.785	15.92	993	15.82	999
167	0	0	0	0.785	16.4	964	16.4	964
212	0	0	0	0.785	16.95	933	16.95	933

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.12

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Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.02	21.6	1487	21.41	1500*
25	0	0	0	0.785	21.47	1151	21.27	1162
30	0	0	0	0.785	21.59	1145	21.39	1155
40	0	0	0	0.785	21.83	1132	21.62	1143
50	0	0	0	0.785	22.06	1121	21.85	1131
60	0	0	0	0.785	22.29	1109	22.08	1120
70	0	0	0	0.785	22.52	1098	22.31	1108
80	0	0	0	0.785	22.75	1087	22.54	1097
90	0	0	0	0.785	22.97	1077	22.76	1087
100	0	0	0	0.785	23.19	1067	22.98	1076
110	0	0	0	0.785	23.42	1057	23.2	1066
120	0	0	0	0.785	23.63	1047	23.42	1057
130	0	0	0	0.785	23.77	1041	23.64	1047
167	0	0	0	0.785	24.28	1020	24.28	1020
212	0	0	0	0.785	24.88	996	24.88	996

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.13

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2
100.00	1-0	1-2	1-4	1-6	1-7	1-9	1-10	1-11	2-1	2-2
125.00	1-7	1-10	2-1	2-3	2-6	2-8	2-10	3-0	3-2	3-4
150.00	2-4	2-8	3-0	3-4	3-7	3-10	4-1	4-4	4-7	4-10
175.00	3-2	3-7	4-1	4-6	4-11	5-3	5-7	5-11	6-3	6-7
200.00	4-1	4-9	5-4	5-10	6-4	6-10	7-4	7-9	8-2	8-7

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-3
100.00	1-0	1-2	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-2
125.00	1-7	1-10	2-1	2-4	2-6	2-9	2-11	3-1	3-3	3-4
150.00	2-4	2-8	3-0	3-4	3-8	3-11	4-2	4-5	4-8	4-10
175.00	3-2	3-8	4-1	4-7	4-11	5-4	5-8	6-0	6-4	6-7
200.00	4-2	4-9	5-5	5-11	6-6	6-11	7-5	7-10	8-3	8-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-2	1-3	1-3	1-4	1-4	1-4	1-5	1-5	1-6
125.00	1-9	1-10	1-11	2-0	2-0	2-1	2-2	2-2	2-3	2-4
150.00	2-6	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4
175.00	3-5	3-7	3-9	3-10	4-0	4-1	4-2	4-4	4-5	4-7
200.00	4-6	4-8	4-10	5-0	5-2	5-4	5-6	5-8	5-10	5-11
225.00	5-8	5-11	6-2	6-4	6-7	6-9	7-0	7-2	7-4	7-6
250.00	7-0	7-4	7-7	7-10	8-1	8-4	8-7	8-10	9-1	9-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6
125.00	1-9	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4
150.00	2-7	2-8	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-5
175.00	3-6	3-8	3-9	3-11	4-0	4-2	4-3	4-5	4-6	4-7
200.00	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-10	6-0
225.00	5-9	6-0	6-3	6-5	6-8	6-10	7-1	7-3	7-5	7-7
250.00	7-2	7-5	7-8	7-11	8-3	8-6	8-8	8-11	9-2	9-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.15

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0
175.00	3-6	3-7	3-8	3-8	3-9	3-10	3-10	3-11	4-0	4-1
200.00	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-3
225.00	5-10	5-11	6-0	6-1	6-3	6-4	6-5	6-6	6-7	6-8
250.00	7-2	7-4	7-5	7-7	7-8	7-10	7-11	8-0	8-2	8-3
275.00	8-8	8-10	9-0	9-2	9-3	9-5	9-7	9-9	9-10	10-0
300.00	10-4	10-6	10-8	10-11	11-1	11-3	11-5	11-7	11-9	11-11
325.00	12-2	12-4	12-7	12-9	13-0	13-2	13-5	13-7	13-9	14-0
350.00	14-1	14-4	14-7	14-10	15-1	15-4	15-6	15-9	16-0	16-2
375.00	16-2	16-5	16-9	17-0	17-3	17-7	17-10	18-1	18-4	18-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0
175.00	3-7	3-7	3-8	3-9	3-9	3-10	3-11	4-0	4-0	4-1
200.00	4-8	4-9	4-10	4-10	4-11	5-0	5-1	5-2	5-3	5-4
225.00	5-10	6-0	6-1	6-2	6-3	6-4	6-6	6-7	6-8	6-9
250.00	7-3	7-4	7-6	7-7	7-9	7-10	8-0	8-1	8-3	8-4
275.00	8-9	8-11	9-1	9-3	9-4	9-6	9-8	9-10	9-11	10-1
300.00	10-5	10-7	10-10	11-0	11-2	11-4	11-6	11-8	11-10	12-0
325.00	12-3	12-5	12-8	12-11	13-1	13-4	13-6	13-8	13-11	14-1
350.00	14-2	14-5	14-8	14-11	15-2	15-5	15-8	15-11	16-1	16-4
375.00	16-4	16-7	16-11	17-2	17-5	17-9	18-0	18-3	18-6	18-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.16

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-8	4-8	4-9	4-9	4-10	4-10	4-11	4-11	5-0	5-0
225.00	5-10	5-11	6-0	6-0	6-1	6-2	6-2	6-3	6-4	6-4
250.00	7-3	7-4	7-5	7-5	7-6	7-7	7-8	7-9	7-10	7-10
275.00	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6
300.00	10-5	10-6	10-8	10-9	10-10	10-11	11-1	11-2	11-3	11-4
325.00	12-3	12-4	12-6	12-7	12-9	12-10	13-0	13-1	13-2	13-4
350.00	14-2	14-4	14-6	14-8	14-9	14-11	15-0	15-2	15-4	15-5
375.00	16-4	16-6	16-8	16-10	16-11	17-1	17-3	17-5	17-7	17-9
400.00	18-7	18-9	18-11	19-1	19-4	19-6	19-8	19-10	20-0	20-2
425.00	21-0	21-2	21-5	21-7	21-10	22-0	22-2	22-5	22-7	22-10
450.00	23-6	23-9	24-0	24-3	24-5	24-8	24-11	25-2	25-4	25-7
475.00	26-3	26-6	26-9	27-0	27-3	27-6	27-9	28-0	28-3	28-6
500.00	29-1	29-4	29-8	29-11	30-3	30-6	30-9	31-1	31-4	31-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-8	4-8	4-9	4-10	4-10	4-11	4-11	5-0	5-0	5-1
225.00	5-11	5-11	6-0	6-1	6-2	6-2	6-3	6-4	6-4	6-5
250.00	7-3	7-4	7-5	7-6	7-7	7-8	7-8	7-9	7-10	7-11
275.00	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6	9-7
300.00	10-6	10-7	10-8	10-10	10-11	11-0	11-1	11-2	11-4	11-5
325.00	12-4	12-5	12-7	12-8	12-10	12-11	13-0	13-2	13-3	13-5
350.00	14-3	14-5	14-7	14-9	14-10	15-0	15-1	15-3	15-5	15-6
375.00	16-5	16-7	16-9	16-11	17-1	17-3	17-4	17-6	17-8	17-10
400.00	18-8	18-10	19-1	19-3	19-5	19-7	19-9	19-11	20-1	20-4
425.00	21-1	21-4	21-6	21-9	21-11	22-1	22-4	22-6	22-9	22-11
450.00	23-8	23-11	24-1	24-4	24-7	24-10	25-0	25-3	25-6	25-9
475.00	26-4	26-7	26-11	27-2	27-5	27-8	27-11	28-2	28-5	28-8
500.00	29-3	29-6	29-10	30-1	30-5	30-8	30-11	31-3	31-6	31-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.17

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-3	7-4	7-5	7-5	7-6	7-6	7-7	7-7	7-8	7-8
275.00	8-10	8-11	8-11	9-0	9-1	9-1	9-2	9-2	9-3	9-4
300.00	10-6	10-7	10-8	10-8	10-9	10-10	10-11	10-11	11-0	11-1
325.00	12-4	12-5	12-6	12-7	12-8	12-9	12-9	12-10	12-11	13-0
350.00	14-4	14-5	14-6	14-7	14-8	14-9	14-10	14-11	15-0	15-1
375.00	16-5	16-6	16-8	16-9	16-10	16-11	17-0	17-2	17-3	17-4
400.00	18-8	18-10	18-11	19-1	19-2	19-3	19-5	19-6	19-7	19-9
425.00	21-1	21-3	21-4	21-6	21-8	21-9	21-11	22-0	22-2	22-3
450.00	23-8	23-10	24-0	24-1	24-3	24-5	24-7	24-9	24-10	25-0
475.00	26-5	26-7	26-9	26-11	27-1	27-3	27-5	27-7	27-8	27-10
500.00	29-3	29-5	29-7	29-10	30-0	30-2	30-4	30-6	30-9	30-11
525.00	32-3	32-6	32-8	32-11	33-1	33-3	33-6	33-8	33-11	34-1
550.00	35-5	35-8	35-11	36-1	36-4	36-7	36-9	37-0	37-2	37-5
575.00	38-9	39-0	39-3	39-6	39-9	40-0	40-2	40-5	40-8	40-11
600.00	42-2	42-6	42-9	43-0	43-3	43-6	43-10	44-1	44-4	44-7
625.00	45-10	46-1	46-5	46-8	47-0	47-3	47-7	47-10	48-1	48-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-4	7-4	7-5	7-5	7-6	7-7	7-7	7-8	7-8	7-9
275.00	8-10	8-11	9-0	9-0	9-1	9-2	9-2	9-3	9-4	9-4
300.00	10-6	10-7	10-8	10-9	10-10	10-10	10-11	11-0	11-1	11-2
325.00	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	13-0	13-1
350.00	14-4	14-5	14-6	14-7	14-9	14-10	14-11	15-0	15-1	15-2
375.00	16-6	16-7	16-8	16-10	16-11	17-0	17-1	17-2	17-4	17-5
400.00	18-9	18-11	19-0	19-1	19-3	19-4	19-6	19-7	19-8	19-10
425.00	21-2	21-4	21-5	21-7	21-9	21-10	22-0	22-1	22-3	22-4
450.00	23-9	23-11	24-1	24-3	24-4	24-6	24-8	24-10	24-11	25-1
475.00	26-6	26-8	26-10	27-0	27-2	27-4	27-6	27-8	27-10	28-0
500.00	29-4	29-7	29-9	29-11	30-1	30-3	30-6	30-8	30-10	31-0
525.00	32-5	32-7	32-10	33-0	33-2	33-5	33-7	33-10	34-0	34-2
550.00	35-7	35-9	36-0	36-3	36-6	36-8	36-11	37-1	37-4	37-7
575.00	38-11	39-2	39-5	39-8	39-10	40-1	40-4	40-7	40-10	41-1
600.00	42-4	42-8	42-11	43-2	43-5	43-8	44-0	44-3	44-6	44-9
625.00	46-0	46-3	46-7	46-10	47-2	47-5	47-9	48-0	48-4	48-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.18

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.02	0.68	1873	0.64	2000*
25	0	0	0	0.785	0.58	1679	0.54	1831
30	0	0	0	0.785	0.66	1493	0.6	1641
40	0	0	0	0.785	0.82	1204	0.74	1327
50	0	0	0	0.785	0.98	1005	0.89	1098
60	0	0	0	0.785	1.13	867	1.05	937
70	0	0	0	0.785	1.28	768	1.2	821
80	0	0	0	0.785	1.41	694	1.34	735
90	0	0	0	0.785	1.54	637	1.47	670
100	0	0	0	0.785	1.62	606	1.59	618
110	0	0	0	0.785	1.69	581	1.69	581
120	0	0	0	0.785	1.76	559	1.76	559
130	0	0	0	0.785	1.82	540	1.82	540
167	0	0	0	0.785	2.05	480	2.05	480
212	0	0	0	0.785	2.3	427	2.3	427

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.02	2.74	1866	2.55	2000*
25	0	0	0	0.785	2.57	1525	2.36	1665
30	0	0	0	0.785	2.7	1456	2.48	1583
40	0	0	0	0.785	2.94	1336	2.72	1444
50	0	0	0	0.785	3.17	1239	2.95	1330
60	0	0	0	0.785	3.39	1158	3.18	1237
70	0	0	0	0.785	3.6	1090	3.39	1158
80	0	0	0	0.785	3.81	1032	3.6	1091
90	0	0	0	0.785	4	982	3.8	1034
100	0	0	0	0.785	4.19	938	4	984
110	0	0	0	0.785	4.34	906	4.18	940
120	0	0	0	0.785	4.44	885	4.36	901
130	0	0	0	0.785	4.55	865	4.54	867
167	0	0	0	0.785	4.92	799	4.92	799
212	0	0	0	0.785	5.35	736	5.35	736

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.19

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Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.02	6.03	1907	5.75	2000*
25	0	0	0	0.785	5.84	1515	5.52	1601
30	0	0	0	0.785	5.98	1479	5.66	1562
40	0	0	0	0.785	6.25	1414	5.94	1489
50	0	0	0	0.785	6.52	1357	6.21	1424
60	0	0	0	0.785	6.78	1305	6.47	1367
70	0	0	0	0.785	7.03	1259	6.73	1315
80	0	0	0	0.785	7.28	1217	6.98	1269
90	0	0	0	0.785	7.51	1178	7.22	1226
100	0	0	0	0.785	7.75	1143	7.45	1188
110	0	0	0	0.785	7.97	1111	7.68	1152
120	0	0	0	0.785	8.15	1087	7.91	1120
130	0	0	0	0.785	8.28	1070	8.13	1090
167	0	0	0	0.785	8.76	1011	8.76	1011
212	0	0	0	0.785	9.31	952	9.31	952

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.02	10.56	1937	10.23	2000*
25	0	0	0	0.785	10.36	1519	9.99	1575
30	0	0	0	0.785	10.51	1498	10.14	1552
40	0	0	0	0.785	10.8	1457	10.43	1509
50	0	0	0	0.785	11.09	1420	10.72	1468
60	0	0	0	0.785	11.37	1385	11	1431
70	0	0	0	0.785	11.64	1353	11.28	1396
80	0	0	0	0.785	11.91	1322	11.55	1364
90	0	0	0	0.785	12.18	1294	11.82	1333
100	0	0	0	0.785	12.44	1267	12.08	1304
110	0	0	0	0.785	12.69	1242	12.34	1277
120	0	0	0	0.785	12.94	1218	12.59	1252
130	0	0	0	0.785	13.11	1202	12.84	1228
167	0	0	0	0.785	13.67	1154	13.67	1154
212	0	0	0	0.785	14.31	1103	14.31	1103

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.20

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.02	16.37	1955	16	2000*
25	0	0	0	0.785	16.17	1524	15.76	1563
30	0	0	0	0.785	16.32	1510	15.91	1548
40	0	0	0	0.785	16.62	1482	16.22	1519
50	0	0	0	0.785	16.92	1457	16.51	1492
60	0	0	0	0.785	17.21	1432	16.81	1466
70	0	0	0	0.785	17.5	1409	17.1	1441
80	0	0	0	0.785	17.79	1386	17.38	1418
90	0	0	0	0.785	18.07	1365	17.67	1396
100	0	0	0	0.785	18.34	1345	17.94	1374
110	0	0	0	0.785	18.62	1325	18.22	1354
120	0	0	0	0.785	18.89	1306	18.49	1334
130	0	0	0	0.785	19.13	1290	18.76	1315
167	0	0	0	0.785	19.73	1251	19.72	1252
212	0	0	0	0.785	20.45	1208	20.45	1208

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.21

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 5	0- 6	0- 7	0- 8	0- 9	0-10	0-11	1- 0	1- 0	1- 1
100.00	0- 9	0-10	1- 0	1- 2	1- 4	1- 6	1- 7	1- 9	1-10	1-11
125.00	1- 2	1- 4	1- 7	1-10	2- 1	2- 3	2- 6	2- 8	2-10	3- 0
150.00	1- 7	2- 0	2- 4	2- 8	3- 0	3- 3	3- 7	3-10	4- 1	4- 4
175.00	2- 3	2- 8	3- 2	3- 7	4- 1	4- 6	4-11	5- 3	5- 7	5-11
200.00	2-11	3- 6	4- 1	4- 9	5- 4	5-10	6- 4	6-10	7- 4	7- 9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1
100.00	0-9	0-11	1-1	1-3	1-4	1-6	1-8	1-9	1-11	2-0
125.00	1-2	1-5	1-8	1-11	2-2	2-4	2-7	2-9	2-11	3-1
150.00	1-8	2-0	2-5	2-9	3-1	3-5	3-8	4-0	4-3	4-6
175.00	2-3	2-9	3-3	3-9	4-3	4-8	5-0	5-5	5-9	6-1
200.00	2-11	3-7	4-3	4-11	5-6	6-1	6-7	7-1	7-6	8-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.22

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-11
150.00	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-7	2-9	2-10
175.00	2-6	2-8	2-10	3-0	3-2	3-3	3-5	3-7	3-8	3-10
200.00	3-3	3-6	3-8	3-11	4-1	4-4	4-6	4-8	4-10	5-0
225.00	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-11	6-1	6-4
250.00	5-1	5-5	5-9	6-1	6-5	6-9	7-0	7-3	7-7	7-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-11	2-0
150.00	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-9	2-10	2-11
175.00	2-7	2-10	2-11	3-1	3-3	3-5	3-7	3-8	3-10	3-11
200.00	3-5	3-8	3-10	4-1	4-3	4-5	4-8	4-10	5-0	5-2
225.00	4-4	4-7	4-11	5-2	5-5	5-8	5-10	6-1	6-4	6-6
250.00	5-4	5-8	6-0	6-4	6-8	7-0	7-3	7-6	7-10	8-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.23

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-11	2-0	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-5
175.00	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3
200.00	3-5	3-6	3-7	3-8	3-10	3-11	4-0	4-1	4-2	4-3
225.00	4-3	4-5	4-7	4-8	4-10	4-11	5-0	5-2	5-3	5-5
250.00	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-4	6-6	6-8
275.00	6-5	6-7	6-10	7-0	7-2	7-4	7-6	7-8	7-11	8-1
300.00	7-7	7-10	8-1	8-4	8-6	8-9	9-0	9-2	9-5	9-7
325.00	8-11	9-3	9-6	9-9	10-0	10-3	10-6	10-9	11-0	11-3
350.00	10-4	10-8	11-0	11-4	11-7	11-11	12-3	12-6	12-9	13-1
375.00	11-11	12-3	12-8	13-0	13-4	13-8	14-0	14-4	14-8	15-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-0	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-5
175.00	2-8	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-4
200.00	3-6	3-7	3-8	3-10	3-11	4-0	4-1	4-2	4-3	4-4
225.00	4-5	4-7	4-8	4-10	4-11	5-1	5-2	5-3	5-5	5-6
250.00	5-5	5-7	5-9	5-11	6-1	6-3	6-5	6-6	6-8	6-10
275.00	6-7	6-9	7-0	7-2	7-4	7-7	7-9	7-11	8-1	8-3
300.00	7-10	8-1	8-4	8-6	8-9	9-0	9-2	9-5	9-7	9-10
325.00	9-3	9-6	9-9	10-0	10-3	10-6	10-9	11-0	11-3	11-6
350.00	10-8	11-0	11-4	11-8	11-11	12-3	12-6	12-10	13-1	13-4
375.00	12-3	12-8	13-0	13-4	13-8	14-0	14-4	14-8	15-0	15-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10	3-11	3-11
225.00	4-4	4-5	4-6	4-7	4-8	4-9	4-9	4-10	4-11	5-0
250.00	5-4	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2
275.00	6-6	6-7	6-9	6-10	6-11	7-1	7-2	7-3	7-4	7-6
300.00	7-9	7-10	8-0	8-2	8-3	8-5	8-6	8-8	8-9	8-11
325.00	9-1	9-3	9-5	9-7	9-8	9-10	10-0	10-2	10-4	10-5
350.00	10-6	10-9	10-11	11-1	11-3	11-5	11-7	11-9	11-11	12-1
375.00	12-1	12-4	12-6	12-9	12-11	13-1	13-4	13-6	13-9	13-11
400.00	13-9	14-0	14-3	14-6	14-8	14-11	15-2	15-5	15-7	15-10
425.00	15-6	15-10	16-1	16-4	16-7	16-10	17-1	17-4	17-7	17-10
450.00	17-5	17-9	18-0	18-4	18-7	18-11	19-2	19-6	19-9	20-0
475.00	19-5	19-9	20-1	20-5	20-9	21-1	21-5	21-9	22-0	22-4
500.00	21-6	21-11	22-3	22-8	23-0	23-4	23-9	24-1	24-5	24-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-6	3-7	3-7	3-8	3-9	3-10	3-10	3-11	4-0	4-0
225.00	4-5	4-6	4-7	4-8	4-9	4-10	4-10	4-11	5-0	5-1
250.00	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3
275.00	6-7	6-9	6-10	6-11	7-1	7-2	7-3	7-5	7-6	7-7
300.00	7-11	8-0	8-2	8-3	8-5	8-6	8-8	8-10	8-11	9-0
325.00	9-3	9-5	9-7	9-9	9-10	10-0	10-2	10-4	10-6	10-7
350.00	10-9	10-11	11-1	11-3	11-5	11-8	11-10	12-0	12-2	12-4
375.00	12-4	12-6	12-9	12-11	13-2	13-4	13-7	13-9	13-11	14-2
400.00	14-0	14-3	14-6	14-9	15-0	15-2	15-5	15-8	15-10	16-1
425.00	15-10	16-1	16-4	16-8	16-11	17-2	17-5	17-8	17-11	18-2
450.00	17-9	18-1	18-4	18-8	18-11	19-3	19-6	19-10	20-1	20-4
475.00	19-9	20-1	20-5	20-9	21-1	21-5	21-9	22-1	22-5	22-8
500.00	21-11	22-4	22-8	23-0	23-5	23-9	24-1	24-6	24-10	25-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.25

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-5	5-6	5-6	5-7	5-8	5-9	5-9	5-10	5-11	5-11
275.00	6-7	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-1	7-2
300.00	7-10	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7
325.00	9-2	9-3	9-4	9-5	9-7	9-8	9-9	9-10	9-11	10-1
350.00	10-7	10-9	10-10	11-0	11-1	11-2	11-4	11-5	11-6	11-8
375.00	12-2	12-4	12-5	12-7	12-9	12-10	13-0	13-1	13-3	13-5
400.00	13-10	14-0	14-2	14-4	14-6	14-8	14-9	14-11	15-1	15-3
425.00	15-8	15-10	16-0	16-2	16-4	16-6	16-8	16-10	17-0	17-2
450.00	17-7	17-9	17-11	18-2	18-4	18-6	18-9	18-11	19-1	19-3
475.00	19-7	19-9	20-0	20-3	20-5	20-8	20-10	21-1	21-3	21-6
500.00	21-8	21-11	22-2	22-5	22-8	22-11	23-1	23-4	23-7	23-10
525.00	23-11	24-2	24-5	24-9	25-0	25-3	25-6	25-9	26-0	26-3
550.00	26-3	26-7	26-10	27-2	27-5	27-9	28-0	28-3	28-7	28-10
575.00	28-8	29-0	29-4	29-8	30-0	30-4	30-7	30-11	31-3	31-6
600.00	31-3	31-7	32-0	32-4	32-8	33-0	33-4	33-8	34-0	34-4
625.00	33-11	34-4	34-8	35-1	35-5	35-10	36-2	36-7	36-11	37-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-6	5-6	5-7	5-8	5-9	5-9	5-10	5-11	5-11	6-0
275.00	6-8	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-2	7-3
300.00	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8
325.00	9-3	9-4	9-6	9-7	9-8	9-9	9-10	10-0	10-1	10-2
350.00	10-9	10-10	11-0	11-1	11-3	11-4	11-5	11-7	11-8	11-9
375.00	12-4	12-6	12-7	12-9	12-11	13-0	13-2	13-3	13-5	13-6
400.00	14-0	14-2	14-4	14-6	14-8	14-10	15-0	15-1	15-3	15-5
425.00	15-10	16-0	16-2	16-5	16-7	16-9	16-11	17-1	17-3	17-5
450.00	17-9	18-0	18-2	18-4	18-7	18-9	18-11	19-2	19-4	19-6
475.00	19-10	20-0	20-3	20-6	20-8	20-11	21-1	21-4	21-6	21-9
500.00	22-0	22-2	22-5	22-8	22-11	23-2	23-5	23-8	23-10	24-1
525.00	24-3	24-6	24-9	25-0	25-3	25-7	25-10	26-1	26-4	26-7
550.00	26-7	26-11	27-2	27-6	27-9	28-1	28-4	28-7	28-11	29-2
575.00	29-1	29-5	29-9	30-0	30-4	30-8	31-0	31-3	31-7	31-11
600.00	31-8	32-0	32-4	32-9	33-1	33-5	33-9	34-1	34-5	34-9
625.00	34-4	34-9	35-2	35-6	35-11	36-3	36-8	37-0	37-4	37-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.26

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.02	0.56	2287	0.51	2500*
25	0	0	0	0.785	0.46	2129	0.41	2375
30	0	0	0	0.785	0.52	1891	0.46	2144
40	0	0	0	0.785	0.66	1492	0.57	1727
50	0	0	0	0.785	0.82	1203	0.71	1391
60	0	0	0	0.785	0.98	1004	0.86	1144
70	0	0	0	0.785	1.13	867	1.01	969
80	0	0	0	0.785	1.28	768	1.16	844
90	0	0	0	0.785	1.42	694	1.3	753
100	0	0	0	0.785	1.49	659	1.44	683
110	0	0	0	0.785	1.56	629	1.56	629
120	0	0	0	0.785	1.63	602	1.63	602
130	0	0	0	0.785	1.7	578	1.7	578
167	0	0	0	0.785	1.94	508	1.94	508
212	0	0	0	0.785	2.2	447	2.2	447

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.02	2.27	2250	2.04	2500*
25	0	0	0	0.785	2.07	1901	1.8	2179
30	0	0	0	0.785	2.19	1789	1.92	2046
40	0	0	0	0.785	2.45	1603	2.16	1818
50	0	0	0	0.785	2.7	1455	2.4	1633
60	0	0	0	0.785	2.94	1336	2.65	1484
70	0	0	0	0.785	3.17	1239	2.88	1363
80	0	0	0	0.785	3.39	1158	3.11	1263
90	0	0	0	0.785	3.61	1090	3.33	1180
100	0	0	0	0.785	3.81	1032	3.54	1110
110	0	0	0	0.785	3.96	992	3.74	1050
120	0	0	0	0.785	4.07	965	3.94	998
130	0	0	0	0.785	4.18	941	4.13	952
167	0	0	0	0.785	4.58	859	4.58	859
212	0	0	0	0.785	5.02	784	5.02	784

* Design Condition

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SHEET 27 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.27

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.02	4.98	2308	4.59	2500*
25	0	0	0	0.785	4.72	1871	4.28	2065
30	0	0	0	0.785	4.88	1811	4.44	1992
40	0	0	0	0.785	5.19	1703	4.75	1863
50	0	0	0	0.785	5.49	1610	5.05	1751
60	0	0	0	0.785	5.78	1530	5.34	1655
70	0	0	0	0.785	6.06	1459	5.63	1570
80	0	0	0	0.785	6.34	1396	5.91	1496
90	0	0	0	0.785	6.6	1341	6.18	1431
100	0	0	0	0.785	6.86	1291	6.45	1373
110	0	0	0	0.785	7.11	1246	6.7	1320
120	0	0	0	0.785	7.31	1211	6.95	1273
130	0	0	0	0.785	7.45	1189	7.19	1230
167	0	0	0	0.785	7.96	1112	7.96	1112
212	0	0	0	0.785	8.55	1037	8.55	1037

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.02	8.67	2359	8.17	2500*
25	0	0	0	0.785	8.38	1877	7.82	2010
30	0	0	0	0.785	8.55	1839	8	1966
40	0	0	0	0.785	8.89	1769	8.34	1885
50	0	0	0	0.785	9.23	1705	8.68	1813
60	0	0	0	0.785	9.55	1648	9.01	1747
70	0	0	0	0.785	9.86	1596	9.33	1687
80	0	0	0	0.785	10.17	1548	9.64	1633
90	0	0	0	0.785	10.47	1503	9.94	1583
100	0	0	0	0.785	10.76	1463	10.24	1537
110	0	0	0	0.785	11.05	1425	10.54	1494
120	0	0	0	0.785	11.33	1390	10.82	1455
130	0	0	0	0.785	11.55	1363	11.11	1418
167	0	0	0	0.785	12.14	1298	12.1	1302
212	0	0	0	0.785	12.85	1226	12.85	1226

* Design Condition

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SHEET 28 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.28

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.02	13.35	2395	12.78	2500*
25	0	0	0	0.785	13.04	1886	12.42	1981
30	0	0	0	0.785	13.23	1860	12.6	1952
40	0	0	0	0.785	13.59	1811	12.96	1898
50	0	0	0	0.785	13.94	1766	13.32	1848
60	0	0	0	0.785	14.28	1723	13.66	1801
70	0	0	0	0.785	14.62	1684	14.01	1757
80	0	0	0	0.785	14.95	1647	14.34	1716
90	0	0	0	0.785	15.28	1612	14.67	1678
100	0	0	0	0.785	15.6	1579	15	1642
110	0	0	0	0.785	15.91	1548	15.31	1608
120	0	0	0	0.785	16.22	1519	15.63	1576
130	0	0	0	0.785	16.52	1491	15.94	1546
167	0	0	0	0.785	17.21	1432	17.04	1446
212	0	0	0	0.785	18.01	1369	18.01	1369

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.29

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0
100.00	0-7	0-8	0-10	1-0	1-2	1-3	1-5	1-7	1-8	1-10
125.00	0-10	1-1	1-4	1-6	1-9	2-0	2-3	2-5	2-7	2-10
150.00	1-3	1-6	1-10	2-3	2-7	2-11	3-2	3-6	3-9	4-0
175.00	1-8	2-1	2-6	3-0	3-6	3-11	4-4	4-9	5-2	5-6
200.00	2-3	2-9	3-4	3-11	4-7	5-2	5-8	6-3	6-9	7-2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
100.00	0-7	0-9	0-11	1-1	1-3	1-4	1-6	1-8	1-9	1-10
125.00	0-11	1-2	1-5	1-8	1-11	2-2	2-4	2-7	2-9	2-11
150.00	1-4	1-8	2-0	2-5	2-9	3-1	3-5	3-8	3-11	4-3
175.00	1-9	2-3	2-9	3-3	3-9	4-2	4-7	5-0	5-5	5-9
200.00	2-4	2-11	3-7	4-3	4-11	5-6	6-0	6-7	7-0	7-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.30

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1
125.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
150.00	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-3	2-5	2-6
175.00	1-11	2-1	2-4	2-6	2-8	2-10	3-0	3-1	3-3	3-5
200.00	2-6	2-9	3-0	3-3	3-5	3-8	3-10	4-1	4-3	4-5
225.00	3-2	3-6	3-10	4-1	4-4	4-8	4-11	5-2	5-5	5-8
250.00	3-11	4-4	4-8	5-1	5-5	5-9	6-1	6-4	6-8	6-11

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2
125.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
150.00	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-5	2-6	2-8
175.00	2-1	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-5	3-7
200.00	2-9	3-0	3-3	3-6	3-8	3-11	4-1	4-4	4-6	4-8
225.00	3-6	3-10	4-1	4-5	4-8	4-11	5-2	5-5	5-8	5-11
250.00	4-4	4-8	5-1	5-5	5-9	6-1	6-5	6-9	7-0	7-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.31

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11	2-0	2-1
175.00	2-0	2-1	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
200.00	2-8	2-9	2-11	3-0	3-2	3-3	3-4	3-5	3-7	3-8
225.00	3-4	3-6	3-8	3-10	4-0	4-1	4-3	4-4	4-6	4-8
250.00	4-2	4-4	4-6	4-9	4-11	5-1	5-3	5-5	5-7	5-9
275.00	5-0	5-3	5-6	5-8	5-11	6-2	6-4	6-6	6-9	6-11
300.00	6-0	6-3	6-6	6-9	7-0	7-4	7-6	7-9	8-0	8-3
325.00	7-0	7-4	7-8	8-0	8-3	8-7	8-10	9-2	9-5	9-8
350.00	8-1	8-6	8-10	9-3	9-7	9-11	10-3	10-7	10-11	11-3
375.00	9-4	9-9	10-2	10-7	11-0	11-5	11-9	12-2	12-6	12-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-8	1-9	1-9	1-10	1-11	2-0	2-0	2-1	2-2
175.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
200.00	2-10	2-11	3-1	3-2	3-3	3-5	3-6	3-7	3-9	3-10
225.00	3-7	3-9	3-10	4-0	4-2	4-4	4-5	4-7	4-8	4-10
250.00	4-5	4-7	4-9	5-0	5-2	5-4	5-6	5-8	5-10	6-0
275.00	5-4	5-7	5-9	6-0	6-3	6-5	6-8	6-10	7-0	7-3
300.00	6-4	6-7	6-11	7-2	7-5	7-8	7-11	8-2	8-4	8-7
325.00	7-5	7-9	8-1	8-5	8-8	9-0	9-3	9-7	9-10	10-1
350.00	8-8	9-0	9-5	9-9	10-1	10-5	10-9	11-1	11-5	11-8
375.00	9-11	10-4	10-9	11-2	11-7	12-0	12-4	12-9	13-1	13-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.32

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-9	2-9	2-10	2-11	3-0	3-1	3-2	3-2	3-3	3-4
225.00	3-5	3-6	3-7	3-8	3-9	3-11	4-0	4-1	4-2	4-2
250.00	4-3	4-4	4-6	4-7	4-8	4-9	4-11	5-0	5-1	5-2
275.00	5-1	5-3	5-5	5-6	5-8	5-10	5-11	6-1	6-2	6-3
300.00	6-1	6-3	6-5	6-7	6-9	6-11	7-1	7-2	7-4	7-6
325.00	7-2	7-4	7-7	7-9	7-11	8-1	8-3	8-5	8-7	8-9
350.00	8-4	8-6	8-9	9-0	9-2	9-5	9-7	9-9	10-0	10-2
375.00	9-6	9-9	10-1	10-4	10-6	10-9	11-0	11-3	11-6	11-8
400.00	10-10	11-2	11-5	11-9	12-0	12-3	12-6	12-10	13-1	13-4
425.00	12-3	12-7	12-11	13-3	13-6	13-10	14-2	14-5	14-9	15-0
450.00	13-9	14-1	14-6	14-10	15-2	15-6	15-10	16-2	16-6	16-10
475.00	15-4	15-9	16-1	16-6	16-11	17-4	17-8	18-1	18-5	18-9
500.00	16-11	17-5	17-10	18-4	18-9	19-2	19-7	20-0	20-5	20-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-4	3-4	3-5
225.00	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4
250.00	4-5	4-6	4-8	4-9	4-10	4-11	5-1	5-2	5-3	5-4
275.00	5-4	5-6	5-7	5-9	5-10	6-0	6-1	6-3	6-4	6-6
300.00	6-4	6-6	6-8	6-10	7-0	7-2	7-3	7-5	7-7	7-9
325.00	7-5	7-8	7-10	8-0	8-2	8-5	8-7	8-9	8-11	9-1
350.00	8-8	8-10	9-1	9-4	9-6	9-9	9-11	10-1	10-4	10-6
375.00	9-11	10-2	10-5	10-8	10-11	11-2	11-5	11-7	11-10	12-1
400.00	11-3	11-7	11-10	12-2	12-5	12-8	13-0	13-3	13-6	13-9
425.00	12-9	13-1	13-5	13-9	14-0	14-4	14-8	14-11	15-3	15-6
450.00	14-4	14-8	15-0	15-5	15-9	16-1	16-5	16-9	17-1	17-5
475.00	15-11	16-4	16-9	17-2	17-6	17-11	18-3	18-8	19-0	19-5
500.00	17-8	18-1	18-7	19-0	19-5	19-10	20-3	20-8	21-1	21-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.33

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-9	4-10	4-11
275.00	5-2	5-3	5-4	5-5	5-6	5-7	5-9	5-10	5-11	5-11
300.00	6-2	6-3	6-5	6-6	6-7	6-8	6-10	6-11	7-0	7-1
325.00	7-3	7-4	7-6	7-7	7-9	7-10	8-0	8-1	8-3	8-4
350.00	8-5	8-7	8-8	8-10	9-0	9-1	9-3	9-5	9-6	9-8
375.00	9-8	9-10	10-0	10-2	10-4	10-6	10-7	10-9	10-11	11-1
400.00	11-0	11-2	11-4	11-6	11-9	11-11	12-1	12-3	12-5	12-7
425.00	12-5	12-7	12-10	13-0	13-3	13-5	13-8	13-10	14-1	14-3
450.00	13-11	14-2	14-4	14-7	14-10	15-1	15-4	15-6	15-9	16-0
475.00	15-6	15-9	16-0	16-3	16-7	16-10	17-1	17-4	17-7	17-10
500.00	17-2	17-5	17-9	18-1	18-4	18-7	18-11	19-2	19-5	19-9
525.00	18-11	19-3	19-7	19-11	20-3	20-6	20-10	21-2	21-5	21-9
550.00	20-9	21-2	21-6	21-10	22-2	22-6	22-11	23-3	23-7	23-10
575.00	22-8	23-1	23-6	23-11	24-3	24-8	25-0	25-5	25-9	26-1
600.00	24-9	25-2	25-7	26-0	26-5	26-10	27-3	27-8	28-0	28-5
625.00	26-10	27-4	27-9	28-3	28-8	29-1	29-7	30-0	30-5	30-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-5	4-6	4-7	4-8	4-8	4-9	4-10	4-11	5-0	5-1
275.00	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1
300.00	6-4	6-5	6-7	6-8	6-9	6-10	7-0	7-1	7-2	7-3
325.00	7-5	7-7	7-8	7-10	7-11	8-1	8-2	8-4	8-5	8-6
350.00	8-8	8-9	8-11	9-1	9-3	9-4	9-6	9-7	9-9	9-11
375.00	9-11	10-1	10-3	10-5	10-7	10-9	10-11	11-1	11-2	11-4
400.00	11-3	11-6	11-8	11-10	12-0	12-3	12-5	12-7	12-9	12-11
425.00	12-9	12-11	13-2	13-5	13-7	13-10	14-0	14-2	14-5	14-7
450.00	14-3	14-6	14-9	15-0	15-3	15-6	15-8	15-11	16-2	16-4
475.00	15-11	16-2	16-5	16-9	17-0	17-3	17-6	17-9	18-0	18-3
500.00	17-8	17-11	18-3	18-6	18-10	19-1	19-5	19-8	19-11	20-2
525.00	19-5	19-9	20-1	20-5	20-9	21-1	21-4	21-8	22-0	22-3
550.00	21-4	21-9	22-1	22-5	22-9	23-1	23-6	23-10	24-2	24-5
575.00	23-4	23-9	24-2	24-6	24-11	25-3	25-8	26-0	26-5	26-9
600.00	25-5	25-10	26-3	26-8	27-1	27-6	27-11	28-4	28-9	29-1
625.00	27-7	28-1	28-6	29-0	29-5	29-11	30-4	30-9	31-2	31-7

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SHEET 34 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.34

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.02	0.47	2688	0.43	3000*
25	0	0	0	0.785	0.38	2563	0.34	2908
30	0	0	0	0.785	0.43	2292	0.37	2659
40	0	0	0	0.785	0.54	1810	0.45	2183
50	0	0	0	0.785	0.69	1431	0.56	1759
60	0	0	0	0.785	0.85	1161	0.69	1415
70	0	0	0	0.785	1.01	975	0.85	1160
80	0	0	0	0.785	1.16	846	1	980
90	0	0	0	0.785	1.3	754	1.15	852
100	0	0	0	0.785	1.37	715	1.29	759
110	0	0	0	0.785	1.44	680	1.43	688
120	0	0	0	0.785	1.52	646	1.52	646
130	0	0	0	0.785	1.59	618	1.59	618
167	0	0	0	0.785	1.83	536	1.83	536
212	0	0	0	0.785	2.11	467	2.11	467

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.02	1.95	2618	1.7	3000*
25	0	0	0	0.785	1.72	2284	1.44	2721
30	0	0	0	0.785	1.84	2130	1.54	2544
40	0	0	0	0.785	2.1	1871	1.76	2228
50	0	0	0	0.785	2.36	1667	2	1966
60	0	0	0	0.785	2.61	1506	2.24	1752
70	0	0	0	0.785	2.85	1377	2.49	1580
80	0	0	0	0.785	3.09	1273	2.73	1441
90	0	0	0	0.785	3.31	1186	2.96	1327
100	0	0	0	0.785	3.53	1114	3.19	1233
110	0	0	0	0.785	3.68	1067	3.4	1155
120	0	0	0	0.785	3.8	1036	3.61	1088
130	0	0	0	0.785	3.91	1007	3.81	1031
167	0	0	0	0.785	4.32	911	4.32	911
212	0	0	0	0.785	4.78	824	4.78	824

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.35

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.02	4.29	2680	3.83	3000*
25	0	0	0	0.785	3.97	2224	3.44	2568
30	0	0	0	0.785	4.14	2134	3.6	2456
40	0	0	0	0.785	4.47	1977	3.91	2258
50	0	0	0	0.785	4.79	1845	4.23	2089
60	0	0	0	0.785	5.1	1732	4.55	1945
70	0	0	0	0.785	5.41	1635	4.85	1822
80	0	0	0	0.785	5.7	1551	5.15	1715
90	0	0	0	0.785	5.98	1478	5.45	1623
100	0	0	0	0.785	6.26	1413	5.73	1543
110	0	0	0	0.785	6.53	1356	6.01	1472
120	0	0	0	0.785	6.75	1312	6.28	1409
130	0	0	0	0.785	6.89	1285	6.54	1353
167	0	0	0	0.785	7.42	1192	7.42	1192
212	0	0	0	0.785	8.03	1103	8.03	1103

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.02	7.43	2748	6.81	3000*
25	0	0	0	0.785	7.07	2224	6.35	2476
30	0	0	0	0.785	7.26	2165	6.54	2405
40	0	0	0	0.785	7.63	2060	6.91	2275
50	0	0	0	0.785	8	1966	7.28	2161
60	0	0	0	0.785	8.35	1883	7.64	2059
70	0	0	0	0.785	8.7	1808	7.99	1968
80	0	0	0	0.785	9.03	1741	8.33	1887
90	0	0	0	0.785	9.36	1681	8.67	1814
100	0	0	0	0.785	9.68	1625	9	1748
110	0	0	0	0.785	9.99	1575	9.32	1688
120	0	0	0	0.785	10.3	1529	9.63	1633
130	0	0	0	0.785	10.55	1492	9.94	1583
167	0	0	0	0.785	11.17	1410	11.02	1429
212	0	0	0	0.785	11.92	1322	11.92	1322

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.36

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.02	11.4	2803	10.64	3000*
25	0	0	0	0.785	11	2235	10.14	2423
30	0	0	0	0.785	11.2	2194	10.35	2375
40	0	0	0	0.785	11.6	2119	10.75	2285
50	0	0	0	0.785	12	2049	11.15	2204
60	0	0	0	0.785	12.38	1986	11.54	2130
70	0	0	0	0.785	12.76	1928	11.93	2062
80	0	0	0	0.785	13.13	1874	12.3	1999
90	0	0	0	0.785	13.49	1824	12.67	1941
100	0	0	0	0.785	13.84	1778	13.03	1887
110	0	0	0	0.785	14.19	1735	13.39	1838
120	0	0	0	0.785	14.53	1694	13.74	1791
130	0	0	0	0.785	14.86	1657	14.08	1748
167	0	0	0	0.785	15.63	1576	15.29	1610
212	0	0	0	0.785	16.47	1496	16.47	1496

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.37

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11
100.00	0-5	0-7	0-8	0-10	1-0	1-2	1-3	1-5	1-7	1-8
125.00	0-8	0-10	1-1	1-3	1-6	1-9	2-0	2-3	2-5	2-7
150.00	1-0	1-3	1-6	1-10	2-2	2-7	2-11	3-2	3-6	3-9
175.00	1-5	1-8	2-1	2-6	3-0	3-6	3-11	4-4	4-9	5-2
200.00	1-10	2-2	2-9	3-4	3-11	4-7	5-2	5-8	6-3	6-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
100.00	0-6	0-7	0-9	0-11	1-1	1-3	1-5	1-6	1-8	1-9
125.00	0-9	0-11	1-2	1-6	1-9	2-0	2-2	2-5	2-7	2-9
150.00	1-1	1-4	1-9	2-1	2-6	2-10	3-2	3-6	3-9	4-0
175.00	1-5	1-10	2-4	2-10	3-4	3-10	4-4	4-9	5-1	5-6
200.00	1-11	2-5	3-1	3-9	4-5	5-0	5-7	6-2	6-8	7-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.38

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-0
125.00	0-9	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
150.00	1-2	1-3	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-3
175.00	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-10	3-0	3-1
200.00	2-0	2-3	2-6	2-9	3-0	3-3	3-5	3-8	3-10	4-1
225.00	2-7	2-10	3-2	3-6	3-9	4-1	4-4	4-8	4-11	5-2
250.00	3-2	3-6	3-11	4-4	4-8	5-0	5-5	5-9	6-0	6-4

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-8	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-1
125.00	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-7	1-8	1-8
150.00	1-4	1-5	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-5
175.00	1-9	2-0	2-2	2-4	2-6	2-9	2-11	3-0	3-2	3-4
200.00	2-4	2-7	2-10	3-1	3-4	3-7	3-9	4-0	4-2	4-4
225.00	2-11	3-3	3-7	3-11	4-2	4-6	4-9	5-0	5-3	5-6
250.00	3-7	4-0	4-5	4-10	5-2	5-6	5-11	6-2	6-6	6-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.39

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10
175.00	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5	2-6
200.00	2-2	2-3	2-5	2-7	2-8	2-10	2-11	3-1	3-2	3-3
225.00	2-9	2-11	3-1	3-3	3-5	3-7	3-8	3-10	4-0	4-2
250.00	3-4	3-7	3-9	4-0	4-2	4-5	4-7	4-9	4-11	5-1
275.00	4-1	4-4	4-7	4-10	5-1	5-4	5-6	5-9	6-0	6-2
300.00	4-10	5-2	5-5	5-9	6-0	6-4	6-7	6-10	7-1	7-4
325.00	5-8	6-1	6-5	6-9	7-1	7-5	7-9	8-0	8-4	8-8
350.00	6-7	7-0	7-5	7-10	8-3	8-7	9-0	9-4	9-8	10-0
375.00	7-7	8-1	8-6	9-0	9-5	9-10	10-4	10-8	11-1	11-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11
175.00	1-10	1-11	2-0	2-2	2-3	2-4	2-5	2-6	2-7	2-8
200.00	2-5	2-6	2-8	2-9	2-11	3-0	3-2	3-3	3-4	3-6
225.00	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-1	4-3	4-5
250.00	3-9	3-11	4-2	4-4	4-6	4-9	4-11	5-1	5-3	5-5
275.00	4-6	4-9	5-0	5-3	5-6	5-9	5-11	6-2	6-4	6-7
300.00	5-4	5-8	6-0	6-3	6-6	6-10	7-1	7-4	7-7	7-10
325.00	6-3	6-8	7-0	7-4	7-8	8-0	8-4	8-7	8-11	9-2
350.00	7-3	7-8	8-1	8-6	8-11	9-3	9-8	10-0	10-4	10-8
375.00	8-4	8-10	9-4	9-9	10-3	10-8	11-1	11-5	11-10	12-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.40

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-3	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10	2-11
225.00	2-10	2-11	3-0	3-1	3-3	3-4	3-5	3-6	3-7	3-8
250.00	3-6	3-7	3-9	3-10	4-0	4-1	4-3	4-4	4-5	4-7
275.00	4-2	4-4	4-6	4-8	4-10	5-0	5-1	5-3	5-5	5-6
300.00	5-0	5-2	5-4	5-7	5-9	5-11	6-1	6-3	6-5	6-7
325.00	5-10	6-1	6-4	6-6	6-9	6-11	7-2	7-4	7-6	7-8
350.00	6-10	7-1	7-4	7-7	7-10	8-0	8-3	8-6	8-9	8-11
375.00	7-10	8-1	8-5	8-8	8-11	9-3	9-6	9-9	10-0	10-3
400.00	8-11	9-3	9-7	9-10	10-2	10-6	10-10	11-1	11-5	11-8
425.00	10-0	10-5	10-9	11-2	11-6	11-10	12-2	12-6	12-10	13-2
450.00	11-3	11-8	12-1	12-6	12-11	13-3	13-8	14-1	14-5	14-9
475.00	12-6	13-0	13-6	13-11	14-4	14-10	15-3	15-8	16-1	16-6
500.00	13-11	14-5	14-11	15-5	15-11	16-5	16-11	17-4	17-10	18-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-5	2-6	2-7	2-7	2-8	2-9	2-10	2-11	3-0	3-1
225.00	3-0	3-1	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-11
250.00	3-9	3-10	4-0	4-1	4-3	4-4	4-5	4-7	4-8	4-9
275.00	4-6	4-8	4-10	4-11	5-1	5-3	5-5	5-6	5-8	5-9
300.00	5-4	5-6	5-9	5-11	6-1	6-3	6-5	6-7	6-9	6-11
325.00	6-3	6-6	6-9	6-11	7-2	7-4	7-6	7-9	7-11	8-1
350.00	7-3	7-6	7-9	8-0	8-3	8-6	8-9	8-11	9-2	9-5
375.00	8-4	8-8	8-11	9-3	9-6	9-9	10-0	10-3	10-6	10-9
400.00	9-6	9-10	10-2	10-6	10-10	11-1	11-5	11-8	12-0	12-3
425.00	10-9	11-1	11-6	11-10	12-2	12-7	12-11	13-2	13-6	13-10
450.00	12-1	12-6	12-11	13-3	13-8	14-1	14-5	14-10	15-2	15-6
475.00	13-5	13-11	14-4	14-10	15-3	15-8	16-1	16-6	16-11	17-4
500.00	14-11	15-5	15-11	16-5	16-11	17-4	17-10	18-3	18-9	19-2

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SHEET 41 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.41

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3
275.00	4-3	4-4	4-6	4-7	4-8	4-9	4-11	5-0	5-1	5-2
300.00	5-1	5-2	5-4	5-5	5-7	5-8	5-10	5-11	6-0	6-2
325.00	6-0	6-1	6-3	6-5	6-6	6-8	6-10	6-11	7-1	7-2
350.00	6-11	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-2	8-4
375.00	7-11	8-2	8-4	8-6	8-8	8-11	9-1	9-3	9-5	9-7
400.00	9-0	9-3	9-6	9-8	9-11	10-1	10-4	10-6	10-9	10-11
425.00	10-2	10-5	10-8	10-11	11-2	11-5	11-8	11-11	12-1	12-4
450.00	11-5	11-9	12-0	12-3	12-6	12-10	13-1	13-4	13-7	13-10
475.00	12-9	13-1	13-4	13-8	14-0	14-3	14-7	14-10	15-1	15-5
500.00	14-1	14-6	14-10	15-2	15-6	15-10	16-2	16-5	16-9	17-1
525.00	15-7	15-11	16-4	16-8	17-1	17-5	17-9	18-2	18-6	18-10
550.00	17-1	17-6	17-11	18-4	18-9	19-2	19-6	19-11	20-3	20-8
575.00	18-8	19-2	19-7	20-1	20-6	20-11	21-4	21-9	22-2	22-7
600.00	20-4	20-10	21-4	21-10	22-4	22-9	23-3	23-8	24-2	24-7
625.00	22-1	22-7	23-2	23-8	24-3	24-9	25-3	25-9	26-3	26-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-8	3-9	3-11	4-0	4-1	4-1	4-2	4-3	4-4	4-5
275.00	4-6	4-7	4-8	4-10	4-11	5-0	5-1	5-2	5-3	5-4
300.00	5-4	5-6	5-7	5-8	5-10	5-11	6-1	6-2	6-3	6-5
325.00	6-3	6-5	6-7	6-8	6-10	7-0	7-1	7-3	7-4	7-6
350.00	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-6	8-8
375.00	8-4	8-6	8-9	8-11	9-1	9-3	9-5	9-8	9-10	10-0
400.00	9-6	9-9	9-11	10-2	10-4	10-7	10-9	11-0	11-2	11-4
425.00	10-9	11-0	11-3	11-5	11-8	11-11	12-2	12-5	12-7	12-10
450.00	12-0	12-4	12-7	12-10	13-1	13-4	13-7	13-11	14-2	14-4
475.00	13-5	13-8	14-0	14-4	14-7	14-11	15-2	15-6	15-9	16-0
500.00	14-10	15-2	15-6	15-10	16-2	16-6	16-10	17-2	17-5	17-9
525.00	16-4	16-9	17-1	17-6	17-10	18-2	18-7	18-11	19-3	19-7
550.00	17-11	18-4	18-9	19-2	19-7	20-0	20-4	20-9	21-1	21-6
575.00	19-7	20-1	20-6	21-0	21-5	21-10	22-3	22-8	23-1	23-6
600.00	21-4	21-10	22-4	22-10	23-4	23-9	24-3	24-8	25-2	25-7
625.00	23-2	23-9	24-3	24-10	25-4	25-10	26-4	26-10	27-3	27-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.42

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.969	2.47	1000	2.47	1000*
0	0	0	0	0.785	2.36	417	2.34	420
30	0	0	0	0.785	2.63	373	2.62	375
40	0	0	0	0.785	2.71	363	2.7	364
50	0	0	0	0.785	2.79	353	2.78	354
60	0	0	0	0.785	2.86	344	2.85	345
70	0	0	0	0.785	2.93	336	2.92	337
80	0	0	0	0.785	2.99	329	2.99	329
90	0	0	0	0.785	3.04	324	3.04	324
100	0	0	0	0.785	3.08	320	3.08	320
110	0	0	0	0.785	3.12	316	3.12	316
120	0	0	0	0.785	3.16	311	3.16	311
130	0	0	0	0.785	3.2	307	3.2	307
167	0	0	0	0.785	3.35	294	3.35	294
212	0	0	0	0.785	3.53	280	3.53	280

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.969	9.94	1000	9.94	1000*
0	0	0	0	0.785	9.83	403	9.82	404
30	0	0	0	0.785	10.12	392	10.11	392
40	0	0	0	0.785	10.2	389	10.19	389
50	0	0	0	0.785	10.28	386	10.27	386
60	0	0	0	0.785	10.36	383	10.35	383
70	0	0	0	0.785	10.44	380	10.43	380
80	0	0	0	0.785	10.52	377	10.51	378
90	0	0	0	0.785	10.58	375	10.58	375
100	0	0	0	0.785	10.63	373	10.63	373
110	0	0	0	0.785	10.68	372	10.68	372
120	0	0	0	0.785	10.73	370	10.73	370
130	0	0	0	0.785	10.78	368	10.78	368
167	0	0	0	0.785	10.96	362	10.96	362
212	0	0	0	0.785	11.18	355	11.18	355

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.43

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.969	22.66	1000	22.66	1000*
0	0	0	0	0.785	22.55	400	22.54	401
30	0	0	0	0.785	22.84	396	22.83	396
40	0	0	0	0.785	22.92	394	22.91	394
50	0	0	0	0.785	23	393	22.99	393
60	0	0	0	0.785	23.09	392	23.08	392
70	0	0	0	0.785	23.17	390	23.16	390
80	0	0	0	0.785	23.25	389	23.24	389
90	0	0	0	0.785	23.31	388	23.31	388
100	0	0	0	0.785	23.37	387	23.37	387
110	0	0	0	0.785	23.42	386	23.42	386
120	0	0	0	0.785	23.47	385	23.47	385
130	0	0	0	0.785	23.52	385	23.52	385
167	0	0	0	0.785	23.72	382	23.72	382
212	0	0	0	0.785	23.95	378	23.95	378

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.969	41.05	1000	41.05	1000*
0	0	0	0	0.785	40.94	400	40.93	400
30	0	0	0	0.785	41.23	397	41.22	397
40	0	0	0	0.785	41.31	396	41.3	396
50	0	0	0	0.785	41.39	396	41.39	396
60	0	0	0	0.785	41.48	395	41.47	395
70	0	0	0	0.785	41.56	394	41.55	394
80	0	0	0	0.785	41.64	393	41.63	394
90	0	0	0	0.785	41.71	393	41.71	393
100	0	0	0	0.785	41.76	392	41.76	392
110	0	0	0	0.785	41.82	392	41.82	392
120	0	0	0	0.785	41.87	391	41.87	391
130	0	0	0	0.785	41.92	391	41.92	391
167	0	0	0	0.785	42.12	389	42.12	389
212	0	0	0	0.785	42.36	387	42.36	387

* Design Condition

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SHEET 44 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.44

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.969	65.84	1000	65.84	1000*
0	0	0	0	0.785	65.72	399	65.71	399
30	0	0	0	0.785	66.01	398	66	398
40	0	0	0	0.785	66.09	397	66.08	397
50	0	0	0	0.785	66.18	397	66.17	397
60	0	0	0	0.785	66.26	396	66.25	396
70	0	0	0	0.785	66.34	396	66.33	396
80	0	0	0	0.785	66.43	396	66.41	396
90	0	0	0	0.785	66.49	395	66.49	395
100	0	0	0	0.785	66.55	395	66.55	395
110	0	0	0	0.785	66.6	395	66.6	395
120	0	0	0	0.785	66.65	394	66.65	394
130	0	0	0	0.785	66.71	394	66.71	394
167	0	0	0	0.785	66.91	393	66.91	393
212	0	0	0	0.785	67.15	392	67.15	392

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.45

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-5	1-6	1-6	1-7	1-7	1-8	1-8	1-8	1-9	1-9
100.00	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-1
125.00	4-0	4-1	4-3	4-4	4-5	4-7	4-8	4-9	4-10	4-11
150.00	5-8	5-11	6-1	6-3	6-5	6-7	6-9	6-10	6-11	7-0
175.00	7-9	8-1	8-4	8-6	8-9	9-0	9-2	9-4	9-5	9-7
200.00	10-2	10-6	10-10	11-2	11-5	11-9	12-0	12-2	12-4	12-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-5	1-6	1-6	1-7	1-7	1-8	1-8	1-8	1-9	1-9
100.00	2-7	2-8	2-9	2-9	2-10	2-11	3-0	3-0	3-1	3-1
125.00	4-0	4-1	4-3	4-4	4-6	4-7	4-8	4-9	4-10	4-11
150.00	5-9	5-11	6-1	6-3	6-5	6-7	6-9	6-10	6-11	7-0
175.00	7-10	8-1	8-4	8-7	8-9	9-0	9-2	9-4	9-5	9-7
200.00	10-3	10-7	10-11	11-2	11-6	11-9	12-0	12-2	12-4	12-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.46

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-6	2-6	2-6	2-7	2-7	2-7	2-7	2-8	2-8	2-8
125.00	3-11	3-11	4-0	4-0	4-0	4-1	4-1	4-1	4-2	4-2
150.00	5-7	5-8	5-9	5-9	5-10	5-10	5-11	5-11	6-0	6-0
175.00	7-8	7-9	7-10	7-10	7-11	8-0	8-0	8-1	8-2	8-2
200.00	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-8
225.00	12-8	12-10	12-11	13-0	13-1	13-3	13-4	13-5	13-6	13-6
250.00	15-8	15-10	15-11	16-1	16-2	16-4	16-5	16-7	16-8	16-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-6	2-6	2-7	2-7	2-7	2-7	2-7	2-8	2-8	2-8
125.00	3-11	3-11	4-0	4-0	4-0	4-1	4-1	4-1	4-2	4-2
150.00	5-8	5-8	5-9	5-9	5-10	5-10	5-11	5-11	6-0	6-0
175.00	7-8	7-9	7-10	7-10	7-11	8-0	8-1	8-1	8-2	8-2
200.00	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-8
225.00	12-8	12-10	12-11	13-0	13-2	13-3	13-4	13-5	13-6	13-6
250.00	15-8	15-10	16-0	16-1	16-3	16-4	16-6	16-7	16-8	16-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.47

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-8	5-8	5-8	5-9	5-9	5-9	5-9	5-10	5-10	5-10
175.00	7-8	7-9	7-9	7-9	7-10	7-10	7-10	7-11	7-11	7-11
200.00	10-1	10-1	10-2	10-2	10-3	10-3	10-3	10-4	10-4	10-4
225.00	12-9	12-10	12-10	12-11	12-11	13-0	13-0	13-1	13-1	13-2
250.00	15-9	15-10	15-10	15-11	16-0	16-1	16-1	16-2	16-2	16-3
275.00	19-1	19-2	19-3	19-4	19-4	19-5	19-6	19-7	19-7	19-8
300.00	22-9	22-10	22-11	23-0	23-1	23-2	23-3	23-4	23-4	23-5
325.00	26-9	26-10	26-11	27-0	27-1	27-3	27-4	27-5	27-6	27-6
350.00	31-0	31-2	31-3	31-5	31-6	31-7	31-9	31-10	31-11	32-0
375.00	35-8	35-10	35-11	36-1	36-3	36-4	36-6	36-7	36-8	36-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-8	5-8	5-8	5-9	5-9	5-9	5-9	5-10	5-10	5-10
175.00	7-8	7-9	7-9	7-9	7-10	7-10	7-10	7-11	7-11	7-11
200.00	10-1	10-1	10-2	10-2	10-3	10-3	10-3	10-4	10-4	10-4
225.00	12-9	12-10	12-10	12-11	12-11	13-0	13-0	13-1	13-1	13-2
250.00	15-9	15-10	15-11	15-11	16-0	16-1	16-1	16-2	16-2	16-3
275.00	19-1	19-2	19-3	19-4	19-4	19-5	19-6	19-7	19-7	19-8
300.00	22-9	22-10	22-11	23-0	23-1	23-2	23-3	23-4	23-4	23-5
325.00	26-9	26-10	26-11	27-0	27-2	27-3	27-4	27-5	27-6	27-6
350.00	31-1	31-2	31-3	31-5	31-6	31-7	31-9	31-10	31-11	32-0
375.00	35-8	35-10	36-0	36-1	36-3	36-4	36-6	36-7	36-8	36-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.48

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-2	10-2	10-3	10-3	10-3	10-3	10-4	10-4	10-4	10-4
225.00	12-11	12-11	12-11	13-0	13-0	13-0	13-1	13-1	13-1	13-1
250.00	15-11	16-0	16-0	16-0	16-1	16-1	16-1	16-2	16-2	16-2
275.00	19-4	19-4	19-5	19-5	19-5	19-6	19-6	19-7	19-7	19-7
300.00	23-0	23-1	23-1	23-2	23-2	23-3	23-3	23-4	23-4	23-5
325.00	27-0	27-1	27-2	27-2	27-3	27-4	27-4	27-5	27-5	27-6
350.00	31-5	31-5	31-6	31-7	31-8	31-8	31-9	31-10	31-10	31-11
375.00	36-1	36-2	36-3	36-4	36-5	36-5	36-6	36-7	36-8	36-8
400.00	41-1	41-3	41-4	41-5	41-6	41-7	41-8	41-9	41-9	41-10
425.00	46-6	46-7	46-9	46-10	46-11	47-0	47-1	47-2	47-3	47-4
450.00	52-3	52-4	52-6	52-7	52-8	52-9	52-11	53-0	53-1	53-1
475.00	58-4	58-5	58-7	58-8	58-10	58-11	59-1	59-2	59-3	59-4
500.00	64-9	64-11	65-0	65-2	65-4	65-5	65-7	65-8	65-9	65-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-2	10-2	10-3	10-3	10-3	10-3	10-4	10-4	10-4	10-4
225.00	12-11	12-11	12-11	13-0	13-0	13-0	13-1	13-1	13-1	13-1
250.00	15-11	16-0	16-0	16-0	16-1	16-1	16-2	16-2	16-2	16-2
275.00	19-4	19-4	19-5	19-5	19-6	19-6	19-6	19-7	19-7	19-7
300.00	23-0	23-1	23-1	23-2	23-2	23-3	23-3	23-4	23-4	23-5
325.00	27-0	27-1	27-2	27-2	27-3	27-4	27-4	27-5	27-5	27-6
350.00	31-5	31-6	31-6	31-7	31-8	31-9	31-9	31-10	31-10	31-11
375.00	36-1	36-2	36-3	36-4	36-5	36-6	36-6	36-7	36-8	36-8
400.00	41-2	41-3	41-4	41-5	41-6	41-7	41-8	41-9	41-9	41-10
425.00	46-6	46-8	46-9	46-10	46-11	47-0	47-1	47-2	47-3	47-4
450.00	52-3	52-4	52-6	52-7	52-8	52-10	52-11	53-0	53-1	53-1
475.00	58-4	58-6	58-7	58-8	58-10	58-11	59-1	59-2	59-3	59-4
500.00	64-9	64-11	65-1	65-2	65-4	65-5	65-7	65-8	65-9	65-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.49

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	16-2	16-3	16-3	16-3	16-3	16-4	16-4	16-4	16-4	16-4
275.00	19-8	19-8	19-8	19-8	19-9	19-9	19-9	19-10	19-10	19-10
300.00	23-5	23-5	23-5	23-6	23-6	23-6	23-7	23-7	23-7	23-8
325.00	27-6	27-6	27-7	27-7	27-8	27-8	27-8	27-9	27-9	27-9
350.00	31-11	32-0	32-0	32-1	32-1	32-2	32-2	32-3	32-3	32-3
375.00	36-9	36-9	36-10	36-10	36-11	36-11	37-0	37-0	37-1	37-1
400.00	41-10	41-11	41-11	42-0	42-1	42-1	42-2	42-3	42-3	42-3
425.00	47-4	47-5	47-5	47-6	47-7	47-8	47-8	47-9	47-9	47-10
450.00	53-2	53-3	53-4	53-4	53-5	53-6	53-7	53-8	53-8	53-9
475.00	59-4	59-5	59-6	59-7	59-8	59-9	59-10	59-11	59-11	60-0
500.00	65-11	66-0	66-1	66-2	66-3	66-4	66-5	66-6	66-7	66-7
525.00	72-10	72-11	73-0	73-1	73-2	73-4	73-5	73-6	73-6	73-7
550.00	80-1	80-3	80-4	80-5	80-6	80-8	80-9	80-10	80-11	81-0
575.00	87-9	87-11	88-0	88-2	88-3	88-4	88-6	88-7	88-8	88-9
600.00	95-10	96-0	96-1	96-3	96-4	96-6	96-7	96-8	96-9	96-10
625.00	104-3	104-5	104-7	104-8	104-10	104-11	105-1	105-3	105-4	105-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	16-3	16-3	16-3	16-3	16-3	16-4	16-4	16-4	16-4	16-4
275.00	19-8	19-8	19-8	19-9	19-9	19-9	19-9	19-10	19-10	19-10
300.00	23-5	23-5	23-5	23-6	23-6	23-7	23-7	23-7	23-7	23-8
325.00	27-6	27-6	27-7	27-7	27-8	27-8	27-8	27-9	27-9	27-9
350.00	31-11	32-0	32-0	32-1	32-1	32-2	32-2	32-3	32-3	32-3
375.00	36-9	36-9	36-10	36-10	36-11	36-11	37-0	37-0	37-1	37-1
400.00	41-10	41-11	42-0	42-0	42-1	42-1	42-2	42-3	42-3	42-3
425.00	47-4	47-5	47-6	47-6	47-7	47-8	47-8	47-9	47-9	47-10
450.00	53-2	53-3	53-4	53-5	53-5	53-6	53-7	53-8	53-8	53-9
475.00	59-4	59-5	59-6	59-7	59-8	59-9	59-10	59-11	59-11	60-0
500.00	65-11	66-0	66-1	66-2	66-3	66-4	66-5	66-6	66-7	66-7
525.00	72-10	72-11	73-0	73-2	73-3	73-4	73-5	73-6	73-6	73-7
550.00	80-2	80-3	80-4	80-5	80-7	80-8	80-9	80-10	80-11	81-0
575.00	87-10	87-11	88-0	88-2	88-3	88-4	88-6	88-7	88-8	88-9
600.00	95-10	96-0	96-1	96-3	96-4	96-6	96-7	96-8	96-9	96-10
625.00	104-3	104-5	104-7	104-8	104-10	105-0	105-1	105-3	105-4	105-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.50

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.969	1.64	1500	1.64	1500*
0	0	0	0	0.785	1.45	679	1.42	691
30	0	0	0	0.785	1.83	538	1.81	544
40	0	0	0	0.785	1.93	509	1.91	514
50	0	0	0	0.785	2.03	483	2.01	488
60	0	0	0	0.785	2.13	462	2.11	466
70	0	0	0	0.785	2.22	442	2.2	447
80	0	0	0	0.785	2.31	425	2.29	429
90	0	0	0	0.785	2.38	414	2.38	414
100	0	0	0	0.785	2.43	405	2.43	405
110	0	0	0	0.785	2.48	397	2.48	397
120	0	0	0	0.785	2.53	389	2.53	389
130	0	0	0	0.785	2.58	381	2.58	381
167	0	0	0	0.785	2.76	357	2.76	357
212	0	0	0	0.785	2.96	332	2.96	332

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.969	6.59	1500	6.59	1500*
0	0	0	0	0.785	6.39	617	6.36	620
30	0	0	0	0.785	6.79	580	6.77	582
40	0	0	0	0.785	6.91	571	6.89	572
50	0	0	0	0.785	7.03	561	7.01	563
60	0	0	0	0.785	7.15	552	7.12	554
70	0	0	0	0.785	7.26	544	7.23	545
80	0	0	0	0.785	7.37	535	7.35	537
90	0	0	0	0.785	7.48	527	7.46	529
100	0	0	0	0.785	7.57	522	7.57	522
110	0	0	0	0.785	7.64	517	7.64	517
120	0	0	0	0.785	7.7	512	7.7	512
130	0	0	0	0.785	7.77	508	7.77	508
167	0	0	0	0.785	8.02	493	8.02	493
212	0	0	0	0.785	8.31	476	8.31	476

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.51

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.969	14.92	1500	14.92	1500*
0	0	0	0	0.785	14.71	606	14.68	607
30	0	0	0	0.785	15.12	590	15.1	591
40	0	0	0	0.785	15.24	585	15.22	586
50	0	0	0	0.785	15.36	581	15.34	582
60	0	0	0	0.785	15.49	576	15.46	577
70	0	0	0	0.785	15.61	572	15.58	573
80	0	0	0	0.785	15.73	568	15.7	569
90	0	0	0	0.785	15.84	564	15.82	565
100	0	0	0	0.785	15.95	560	15.93	561
110	0	0	0	0.785	16.02	557	16.02	557
120	0	0	0	0.785	16.1	555	16.1	555
130	0	0	0	0.785	16.17	552	16.17	552
167	0	0	0	0.785	16.45	543	16.45	543
212	0	0	0	0.785	16.78	533	16.78	533

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.969	26.73	1500	26.73	1500*
0	0	0	0	0.785	26.52	602	26.49	603
30	0	0	0	0.785	26.93	594	26.91	594
40	0	0	0	0.785	27.06	591	27.03	591
50	0	0	0	0.785	27.18	588	27.16	589
60	0	0	0	0.785	27.3	586	27.28	586
70	0	0	0	0.785	27.43	583	27.4	584
80	0	0	0	0.785	27.55	581	27.52	581
90	0	0	0	0.785	27.67	578	27.64	579
100	0	0	0	0.785	27.78	576	27.76	576
110	0	0	0	0.785	27.86	574	27.86	574
120	0	0	0	0.785	27.94	573	27.94	573
130	0	0	0	0.785	28.02	571	28.02	571
167	0	0	0	0.785	28.3	566	28.3	566
212	0	0	0	0.785	28.65	559	28.65	559

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.52

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.969	42.2	1500	42.2	1500*
0	0	0	0	0.785	42	601	41.97	601
30	0	0	0	0.785	42.41	595	42.38	595
40	0	0	0	0.785	42.53	594	42.51	594
50	0	0	0	0.785	42.66	592	42.63	592
60	0	0	0	0.785	42.78	590	42.75	591
70	0	0	0	0.785	42.9	589	42.88	589
80	0	0	0	0.785	43.03	587	43	587
90	0	0	0	0.785	43.15	585	43.12	586
100	0	0	0	0.785	43.27	584	43.24	584
110	0	0	0	0.785	43.35	583	43.35	583
120	0	0	0	0.785	43.43	582	43.43	582
130	0	0	0	0.785	43.51	581	43.51	581
167	0	0	0	0.785	43.8	577	43.8	577
212	0	0	0	0.785	44.15	573	44.15	573

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.53

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	1-0	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-5
100.00	1-8	1-10	1-11	2-0	2-1	2-2	2-3	2-5	2-5	2-6
125.00	2-8	2-10	3-0	3-2	3-4	3-5	3-7	3-9	3-10	3-11
150.00	3-10	4-1	4-4	4-6	4-9	4-11	5-2	5-4	5-6	5-7
175.00	5-2	5-6	5-10	6-2	6-6	6-9	7-0	7-3	7-5	7-7
200.00	6-9	7-3	7-8	8-1	8-5	8-10	9-2	9-6	9-9	9-11

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-4	1-5
100.00	1-9	1-10	1-11	2-0	2-2	2-3	2-4	2-5	2-5	2-6
125.00	2-8	2-10	3-0	3-2	3-4	3-6	3-7	3-9	3-10	3-11
150.00	3-10	4-1	4-4	4-7	4-10	5-0	5-2	5-4	5-6	5-7
175.00	5-3	5-7	5-11	6-3	6-6	6-10	7-1	7-3	7-5	7-7
200.00	6-10	7-4	7-9	8-2	8-6	8-11	9-3	9-6	9-9	9-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.54

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11
125.00	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0
150.00	3-9	3-10	3-10	3-11	4-0	4-1	4-2	4-2	4-3	4-3
175.00	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10
200.00	6-8	6-9	6-11	7-0	7-1	7-3	7-4	7-5	7-7	7-8
225.00	8-5	8-7	8-9	8-10	9-0	9-2	9-4	9-5	9-7	9-8
250.00	10-5	10-7	10-9	10-11	11-2	11-4	11-6	11-8	11-10	11-11

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11
125.00	2-7	2-8	2-8	2-9	2-9	2-10	2-11	2-11	2-11	3-0
150.00	3-9	3-10	3-11	3-11	4-0	4-1	4-2	4-2	4-3	4-3
175.00	5-1	5-2	5-3	5-5	5-6	5-7	5-8	5-9	5-9	5-10
200.00	6-8	6-10	6-11	7-0	7-2	7-3	7-4	7-6	7-7	7-8
225.00	8-5	8-7	8-9	8-11	9-1	9-2	9-4	9-6	9-7	9-8
250.00	10-5	10-7	10-10	11-0	11-2	11-4	11-6	11-8	11-10	11-11

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STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.55

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-9	3-9	3-10	3-10	3-10	3-11	3-11	3-11	4-0	4-0
175.00	5-1	5-2	5-2	5-2	5-3	5-3	5-4	5-4	5-5	5-5
200.00	6-8	6-8	6-9	6-10	6-10	6-11	7-0	7-0	7-1	7-1
225.00	8-5	8-6	8-7	8-7	8-8	8-9	8-10	8-11	8-11	9-0
250.00	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-1
275.00	12-7	12-8	12-9	12-11	13-0	13-1	13-2	13-3	13-5	13-5
300.00	15-0	15-1	15-3	15-4	15-6	15-7	15-8	15-10	15-11	16-0
325.00	17-7	17-9	17-10	18-0	18-2	18-4	18-5	18-7	18-9	18-10
350.00	20-5	20-7	20-9	20-11	21-1	21-3	21-5	21-7	21-9	21-10
375.00	23-5	23-8	23-10	24-0	24-2	24-5	24-7	24-9	24-11	25-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-9	3-9	3-10	3-10	3-10	3-11	3-11	3-11	4-0	4-0
175.00	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-5	5-5	5-5
200.00	6-8	6-8	6-9	6-10	6-10	6-11	7-0	7-0	7-1	7-1
225.00	8-5	8-6	8-7	8-8	8-8	8-9	8-10	8-11	8-11	9-0
250.00	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-1
275.00	12-7	12-8	12-10	12-11	13-0	13-1	13-2	13-4	13-5	13-5
300.00	15-0	15-1	15-3	15-4	15-6	15-7	15-9	15-10	15-11	16-0
325.00	17-7	17-9	17-11	18-1	18-2	18-4	18-6	18-7	18-9	18-10
350.00	20-5	20-7	20-9	20-11	21-1	21-3	21-5	21-7	21-9	21-10
375.00	23-6	23-8	23-10	24-1	24-3	24-5	24-7	24-10	25-0	25-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.56

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-8	6-8	6-9	6-9	6-9	6-10	6-10	6-11	6-11	6-11
225.00	8-5	8-6	8-6	8-7	8-7	8-8	8-8	8-9	8-9	8-9
250.00	10-5	10-6	10-6	10-7	10-7	10-8	10-9	10-9	10-10	10-10
275.00	12-7	12-8	12-9	12-10	12-10	12-11	13-0	13-0	13-1	13-2
300.00	15-0	15-1	15-2	15-3	15-4	15-4	15-5	15-6	15-7	15-8
325.00	17-8	17-9	17-10	17-11	18-0	18-1	18-2	18-3	18-3	18-4
350.00	20-6	20-7	20-8	20-9	20-10	20-11	21-0	21-2	21-3	21-4
375.00	23-6	23-8	23-9	23-10	23-11	24-1	24-2	24-3	24-5	24-6
400.00	26-9	26-11	27-0	27-2	27-3	27-5	27-6	27-8	27-9	27-10
425.00	30-3	30-5	30-7	30-8	30-10	30-11	31-1	31-3	31-4	31-6
450.00	33-11	34-1	34-3	34-5	34-7	34-9	34-11	35-1	35-2	35-4
475.00	37-10	38-0	38-3	38-5	38-7	38-9	38-11	39-1	39-3	39-5
500.00	42-0	42-2	42-5	42-7	42-9	43-0	43-2	43-4	43-6	43-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-8	6-8	6-9	6-9	6-10	6-10	6-10	6-11	6-11	6-11
225.00	8-5	8-6	8-6	8-7	8-7	8-8	8-8	8-9	8-9	8-9
250.00	10-5	10-6	10-6	10-7	10-8	10-8	10-9	10-9	10-10	10-10
275.00	12-8	12-8	12-9	12-10	12-10	12-11	13-0	13-0	13-1	13-2
300.00	15-0	15-1	15-2	15-3	15-4	15-5	15-5	15-6	15-7	15-8
325.00	17-8	17-9	17-10	17-11	18-0	18-1	18-2	18-3	18-4	18-4
350.00	20-6	20-7	20-8	20-9	20-10	21-0	21-1	21-2	21-3	21-4
375.00	23-7	23-8	23-9	23-10	24-0	24-1	24-2	24-4	24-5	24-6
400.00	26-10	26-11	27-1	27-2	27-4	27-5	27-7	27-8	27-9	27-10
425.00	30-3	30-5	30-7	30-8	30-10	31-0	31-1	31-3	31-5	31-6
450.00	34-0	34-2	34-4	34-5	34-7	34-9	34-11	35-1	35-3	35-4
475.00	37-11	38-1	38-3	38-5	38-7	38-9	38-11	39-1	39-3	39-5
500.00	42-0	42-3	42-5	42-7	42-10	43-0	43-2	43-5	43-7	43-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.57

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-6	10-6	10-7	10-7	10-7	10-8	10-8	10-8	10-9	10-9
275.00	12-8	12-9	12-9	12-10	12-10	12-11	12-11	12-11	13-0	13-0
300.00	15-1	15-2	15-3	15-3	15-4	15-4	15-5	15-5	15-6	15-6
325.00	17-9	17-10	17-10	17-11	18-0	18-0	18-1	18-1	18-2	18-3
350.00	20-7	20-8	20-9	20-9	20-10	20-11	21-0	21-0	21-1	21-2
375.00	23-8	23-9	23-10	23-11	23-11	24-0	24-1	24-2	24-3	24-3
400.00	26-11	27-0	27-1	27-2	27-3	27-4	27-5	27-6	27-7	27-8
425.00	30-5	30-7	30-8	30-9	30-10	30-11	31-0	31-1	31-2	31-3
450.00	34-2	34-3	34-4	34-6	34-7	34-8	34-9	34-10	35-0	35-1
475.00	38-1	38-3	38-4	38-5	38-7	38-8	38-9	38-11	39-0	39-1
500.00	42-3	42-5	42-6	42-8	42-9	42-11	43-0	43-1	43-3	43-4
525.00	46-8	46-9	46-11	47-1	47-2	47-4	47-5	47-7	47-9	47-10
550.00	51-3	51-5	51-6	51-8	51-10	52-0	52-2	52-3	52-5	52-7
575.00	56-1	56-3	56-5	56-7	56-9	56-11	57-1	57-2	57-4	57-6
600.00	61-1	61-3	61-6	61-8	61-10	62-0	62-2	62-4	62-6	62-8
625.00	66-4	66-7	66-9	67-0	67-2	67-4	67-7	67-9	67-11	68-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-6	10-6	10-7	10-7	10-7	10-8	10-8	10-9	10-9	10-9
275.00	12-8	12-9	12-9	12-10	12-10	12-11	12-11	13-0	13-0	13-0
300.00	15-2	15-2	15-3	15-3	15-4	15-4	15-5	15-5	15-6	15-6
325.00	17-9	17-10	17-10	17-11	18-0	18-0	18-1	18-2	18-2	18-3
350.00	20-7	20-8	20-9	20-10	20-10	20-11	21-0	21-0	21-1	21-2
375.00	23-8	23-9	23-10	23-11	24-0	24-0	24-1	24-2	24-3	24-3
400.00	27-0	27-1	27-2	27-2	27-3	27-4	27-5	27-6	27-7	27-8
425.00	30-6	30-7	30-8	30-9	30-10	30-11	31-0	31-1	31-2	31-3
450.00	34-2	34-3	34-5	34-6	34-7	34-8	34-9	34-11	35-0	35-1
475.00	38-1	38-3	38-4	38-6	38-7	38-8	38-10	38-11	39-0	39-1
500.00	42-3	42-5	42-6	42-8	42-9	42-11	43-0	43-2	43-3	43-4
525.00	46-8	46-10	46-11	47-1	47-3	47-4	47-6	47-7	47-9	47-10
550.00	51-3	51-5	51-7	51-9	51-10	52-0	52-2	52-4	52-6	52-7
575.00	56-1	56-3	56-5	56-7	56-9	56-11	57-1	57-3	57-5	57-6
600.00	61-2	61-4	61-6	61-8	61-10	62-1	62-3	62-5	62-7	62-8
625.00	66-5	66-7	66-10	67-0	67-2	67-5	67-7	67-9	68-0	68-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.58

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.969	1.23	2000	1.23	2000*
0	0	0	0	0.785	0.95	1030	0.92	1062
30	0	0	0	0.785	1.39	704	1.36	722
40	0	0	0	0.785	1.52	644	1.49	660
50	0	0	0	0.785	1.65	597	1.61	610
60	0	0	0	0.785	1.76	558	1.73	569
70	0	0	0	0.785	1.87	526	1.83	536
80	0	0	0	0.785	1.97	498	1.94	507
90	0	0	0	0.785	2.06	478	2.04	482
100	0	0	0	0.785	2.12	464	2.12	464
110	0	0	0	0.785	2.17	452	2.17	452
120	0	0	0	0.785	2.23	441	2.23	441
130	0	0	0	0.785	2.29	430	2.29	430
167	0	0	0	0.785	2.48	396	2.48	396
212	0	0	0	0.785	2.7	364	2.7	364

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.969	4.94	1998	4.94	2000*
0	0	0	0	0.785	4.63	850	4.57	860
30	0	0	0	0.785	5.13	768	5.08	774
40	0	0	0	0.785	5.28	745	5.24	752
50	0	0	0	0.785	5.43	725	5.39	731
60	0	0	0	0.785	5.58	706	5.53	712
70	0	0	0	0.785	5.72	688	5.67	694
80	0	0	0	0.785	5.86	672	5.81	677
90	0	0	0	0.785	6	657	5.95	662
100	0	0	0	0.785	6.13	643	6.08	648
110	0	0	0	0.785	6.22	634	6.21	634
120	0	0	0	0.785	6.3	625	6.3	625
130	0	0	0	0.785	6.38	618	6.38	618
167	0	0	0	0.785	6.67	591	6.67	591
212	0	0	0	0.785	7.01	562	7.01	562

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.59

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.969	11.16	1997	11.14	2000*
0	0	0	0	0.785	10.85	819	10.77	824
30	0	0	0	0.785	11.35	783	11.29	787
40	0	0	0	0.785	11.51	772	11.45	776
50	0	0	0	0.785	11.67	761	11.61	765
60	0	0	0	0.785	11.83	751	11.76	755
70	0	0	0	0.785	11.98	742	11.92	746
80	0	0	0	0.785	12.13	733	12.07	736
90	0	0	0	0.785	12.29	724	12.22	727
100	0	0	0	0.785	12.44	715	12.37	719
110	0	0	0	0.785	12.56	708	12.52	710
120	0	0	0	0.785	12.65	703	12.65	703
130	0	0	0	0.785	12.75	698	12.75	698
167	0	0	0	0.785	13.08	680	13.08	680
212	0	0	0	0.785	13.48	660	13.48	660

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.969	19.91	1998	19.89	2000*
0	0	0	0	0.785	19.6	809	19.52	812
30	0	0	0	0.785	20.11	789	20.04	791
40	0	0	0	0.785	20.27	783	20.2	785
50	0	0	0	0.785	20.43	776	20.37	779
60	0	0	0	0.785	20.59	770	20.53	773
70	0	0	0	0.785	20.75	765	20.69	767
80	0	0	0	0.785	20.91	759	20.84	761
90	0	0	0	0.785	21.07	753	21	756
100	0	0	0	0.785	21.23	748	21.16	750
110	0	0	0	0.785	21.37	743	21.31	745
120	0	0	0	0.785	21.47	740	21.47	740
130	0	0	0	0.785	21.57	736	21.57	736
167	0	0	0	0.785	21.93	724	21.93	724
212	0	0	0	0.785	22.37	711	22.37	711

* Design Condition

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SHEET 60 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.60

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.969	31.28	1999	31.25	2000*
0	0	0	0	0.785	30.97	804	30.88	807
30	0	0	0	0.785	31.47	792	31.41	793
40	0	0	0	0.785	31.64	788	31.57	789
50	0	0	0	0.785	31.8	784	31.73	785
60	0	0	0	0.785	31.97	780	31.9	782
70	0	0	0	0.785	32.13	776	32.06	778
80	0	0	0	0.785	32.29	772	32.22	774
90	0	0	0	0.785	32.45	769	32.38	770
100	0	0	0	0.785	32.61	765	32.54	767
110	0	0	0	0.785	32.77	761	32.7	763
120	0	0	0	0.785	32.87	759	32.86	760
130	0	0	0	0.785	32.98	757	32.98	757
167	0	0	0	0.785	33.35	749	33.35	749
212	0	0	0	0.785	33.8	739	33.8	739

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.61

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3
100.00	1-3	1-4	1-6	1-7	1-9	1-10	1-11	2-0	2-1	2-2
125.00	1-11	2-1	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-5
150.00	2-9	3-1	3-4	3-7	3-11	4-2	4-4	4-7	4-9	4-11
175.00	3-9	4-2	4-7	4-11	5-3	5-7	5-11	6-3	6-6	6-8
200.00	4-11	5-5	6-0	6-5	6-11	7-4	7-9	8-2	8-6	8-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-2	1-3
100.00	1-3	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-1	2-2
125.00	2-0	2-2	2-5	2-7	2-9	2-11	3-1	3-3	3-4	3-5
150.00	2-10	3-2	3-5	3-8	4-0	4-2	4-5	4-8	4-9	4-11
175.00	3-10	4-3	4-8	5-1	5-5	5-9	6-1	6-4	6-6	6-8
200.00	5-0	5-7	6-1	6-7	7-1	7-6	7-11	8-3	8-6	8-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.62

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-3	1-3	1-4	1-4	1-5	1-5	1-5	1-6	1-6	1-7
125.00	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-4	2-5
150.00	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6
175.00	3-9	3-11	4-0	4-1	4-3	4-4	4-5	4-7	4-8	4-9
200.00	4-11	5-1	5-3	5-5	5-6	5-8	5-10	5-11	6-1	6-3
225.00	6-3	6-5	6-8	6-10	7-0	7-2	7-4	7-6	7-8	7-10
250.00	7-8	7-11	8-2	8-5	8-8	8-10	9-1	9-4	9-6	9-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7
125.00	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-5	2-5
150.00	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-4	3-5	3-6
175.00	3-10	3-11	4-1	4-2	4-3	4-5	4-6	4-7	4-8	4-9
200.00	5-0	5-2	5-3	5-5	5-7	5-9	5-10	6-0	6-2	6-3
225.00	6-3	6-6	6-8	6-11	7-1	7-3	7-5	7-7	7-9	7-10
250.00	7-9	8-0	8-3	8-6	8-9	8-11	9-2	9-5	9-7	9-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.63

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-1
175.00	3-9	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-2	4-3
200.00	4-11	5-0	5-1	5-2	5-3	5-3	5-4	5-5	5-6	5-7
225.00	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0
250.00	7-9	7-10	7-11	8-1	8-2	8-3	8-5	8-6	8-7	8-8
275.00	9-4	9-6	9-7	9-9	9-11	10-0	10-2	10-3	10-5	10-6
300.00	11-2	11-3	11-5	11-7	11-9	11-11	12-1	12-3	12-4	12-6
325.00	13-1	13-3	13-5	13-8	13-10	14-0	14-2	14-4	14-6	14-8
350.00	15-2	15-5	15-7	15-10	16-0	16-3	16-5	16-8	16-10	17-1
375.00	17-5	17-8	17-11	18-2	18-5	18-8	18-11	19-1	19-4	19-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-10	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2
175.00	3-10	3-10	3-11	4-0	4-0	4-1	4-1	4-2	4-3	4-3
200.00	5-0	5-0	5-1	5-2	5-3	5-4	5-5	5-5	5-6	5-7
225.00	6-3	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1
250.00	7-9	7-11	8-0	8-1	8-2	8-4	8-5	8-6	8-8	8-9
275.00	9-5	9-6	9-8	9-10	9-11	10-1	10-2	10-4	10-5	10-7
300.00	11-2	11-4	11-6	11-8	11-10	12-0	12-2	12-3	12-5	12-7
325.00	13-2	13-4	13-6	13-8	13-11	14-1	14-3	14-5	14-7	14-9
350.00	15-3	15-5	15-8	15-11	16-1	16-4	16-6	16-9	16-11	17-1
375.00	17-6	17-9	18-0	18-3	18-6	18-9	19-0	19-3	19-5	19-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.64

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-11	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4
225.00	6-3	6-4	6-5	6-5	6-6	6-6	6-7	6-8	6-8	6-9
250.00	7-9	7-10	7-11	7-11	8-0	8-1	8-1	8-2	8-3	8-4
275.00	9-5	9-5	9-6	9-7	9-8	9-9	9-10	9-11	10-0	10-1
300.00	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-10	11-11	12-0
325.00	13-1	13-3	13-4	13-5	13-6	13-8	13-9	13-10	13-11	14-1
350.00	15-2	15-4	15-5	15-7	15-8	15-10	15-11	16-1	16-2	16-4
375.00	17-6	17-7	17-9	17-11	18-0	18-2	18-4	18-5	18-7	18-9
400.00	19-11	20-1	20-2	20-4	20-6	20-8	20-10	21-0	21-2	21-4
425.00	22-5	22-8	22-10	23-0	23-2	23-4	23-7	23-9	23-11	24-1
450.00	25-2	25-5	25-7	25-10	26-0	26-2	26-5	26-7	26-10	27-0
475.00	28-1	28-4	28-6	28-9	29-0	29-3	29-5	29-8	29-11	30-1
500.00	31-1	31-4	31-8	31-11	32-2	32-5	32-8	32-11	33-2	33-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4
225.00	6-4	6-4	6-5	6-5	6-6	6-7	6-7	6-8	6-8	6-9
250.00	7-9	7-10	7-11	8-0	8-0	8-1	8-2	8-3	8-3	8-4
275.00	9-5	9-6	9-7	9-8	9-9	9-9	9-10	9-11	10-0	10-1
300.00	11-2	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0
325.00	13-2	13-3	13-4	13-6	13-7	13-8	13-9	13-11	14-0	14-1
350.00	15-3	15-5	15-6	15-8	15-9	15-11	16-0	16-1	16-3	16-4
375.00	17-6	17-8	17-10	17-11	18-1	18-3	18-4	18-6	18-8	18-9
400.00	19-11	20-1	20-3	20-5	20-7	20-9	20-11	21-1	21-3	21-4
425.00	22-6	22-8	22-11	23-1	23-3	23-5	23-7	23-10	24-0	24-2
450.00	25-3	25-6	25-8	25-11	26-1	26-4	26-6	26-8	26-11	27-1
475.00	28-2	28-5	28-7	28-10	29-1	29-4	29-6	29-9	30-0	30-2
500.00	31-3	31-6	31-9	32-0	32-3	32-6	32-9	33-0	33-3	33-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.65

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-9	7-10	7-10	7-11	7-11	8-0	8-0	8-1	8-1	8-2
275.00	9-5	9-6	9-6	9-7	9-7	9-8	9-9	9-9	9-10	9-10
300.00	11-3	11-3	11-4	11-5	11-5	11-6	11-7	11-7	11-8	11-9
325.00	13-2	13-3	13-4	13-4	13-5	13-6	13-7	13-8	13-8	13-9
350.00	15-3	15-4	15-5	15-6	15-7	15-8	15-9	15-10	15-11	16-0
375.00	17-6	17-8	17-9	17-10	17-11	18-0	18-1	18-2	18-3	18-4
400.00	19-11	20-1	20-2	20-3	20-4	20-6	20-7	20-8	20-9	20-11
425.00	22-6	22-8	22-9	22-11	23-0	23-2	23-3	23-4	23-6	23-7
450.00	25-3	25-5	25-7	25-8	25-10	25-11	26-1	26-2	26-4	26-5
475.00	28-2	28-4	28-6	28-8	28-9	28-11	29-1	29-2	29-4	29-6
500.00	31-3	31-5	31-7	31-9	31-11	32-1	32-3	32-5	32-6	32-8
525.00	34-6	34-8	34-10	35-0	35-2	35-4	35-7	35-9	35-11	36-1
550.00	37-10	38-1	38-3	38-5	38-8	38-10	39-0	39-3	39-5	39-7
575.00	41-5	41-7	41-10	42-0	42-3	42-6	42-8	42-11	43-1	43-4
600.00	45-1	45-4	45-7	45-10	46-0	46-3	46-6	46-9	47-0	47-2
625.00	48-11	49-3	49-6	49-9	50-0	50-3	50-6	50-9	51-0	51-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-10	7-10	7-11	7-11	8-0	8-0	8-0	8-1	8-1	8-2
275.00	9-5	9-6	9-6	9-7	9-8	9-8	9-9	9-9	9-10	9-10
300.00	11-3	11-4	11-4	11-5	11-6	11-6	11-7	11-8	11-8	11-9
325.00	13-2	13-3	13-4	13-5	13-6	13-6	13-7	13-8	13-9	13-10
350.00	15-4	15-5	15-6	15-6	15-7	15-8	15-9	15-10	15-11	16-0
375.00	17-7	17-8	17-9	17-10	17-11	18-0	18-1	18-3	18-4	18-5
400.00	20-0	20-1	20-3	20-4	20-5	20-6	20-8	20-9	20-10	20-11
425.00	22-7	22-8	22-10	22-11	23-1	23-2	23-4	23-5	23-6	23-8
450.00	25-4	25-6	25-7	25-9	25-10	26-0	26-2	26-3	26-5	26-6
475.00	28-3	28-5	28-6	28-8	28-10	29-0	29-2	29-3	29-5	29-7
500.00	31-4	31-6	31-8	31-10	32-0	32-2	32-4	32-5	32-7	32-9
525.00	34-6	34-9	34-11	35-1	35-3	35-5	35-7	35-10	36-0	36-2
550.00	37-11	38-1	38-4	38-6	38-9	38-11	39-1	39-4	39-6	39-8
575.00	41-6	41-8	41-11	42-2	42-4	42-7	42-9	43-0	43-3	43-5
600.00	45-2	45-5	45-8	45-11	46-2	46-5	46-7	46-10	47-1	47-4
625.00	49-1	49-4	49-7	49-10	50-1	50-4	50-7	50-10	51-1	51-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.66

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.969	0.99	2500	0.99	2500*
0	0	0	0	0.785	0.62	1574	0.6	1643
30	0	0	0	0.785	1.1	895	1.04	940
40	0	0	0	0.785	1.25	788	1.19	824
50	0	0	0	0.785	1.38	709	1.33	737
60	0	0	0	0.785	1.51	649	1.46	672
70	0	0	0	0.785	1.64	600	1.59	619
80	0	0	0	0.785	1.75	561	1.7	577
90	0	0	0	0.785	1.85	530	1.81	542
100	0	0	0	0.785	1.92	513	1.92	513
110	0	0	0	0.785	1.98	497	1.98	497
120	0	0	0	0.785	2.04	482	2.04	482
130	0	0	0	0.785	2.1	469	2.1	469
167	0	0	0	0.785	2.3	427	2.3	427
212	0	0	0	0.785	2.54	387	2.54	387

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.969	3.97	2485	3.94	2500*
0	0	0	0	0.785	3.51	1120	3.42	1148
30	0	0	0	0.785	4.11	957	4.02	978
40	0	0	0	0.785	4.29	916	4.2	935
50	0	0	0	0.785	4.47	879	4.38	897
60	0	0	0	0.785	4.65	847	4.56	863
70	0	0	0	0.785	4.81	817	4.72	833
80	0	0	0	0.785	4.98	791	4.89	805
90	0	0	0	0.785	5.13	766	5.05	780
100	0	0	0	0.785	5.29	744	5.2	757
110	0	0	0	0.785	5.4	729	5.35	736
120	0	0	0	0.785	5.49	717	5.49	717
130	0	0	0	0.785	5.58	705	5.58	705
167	0	0	0	0.785	5.91	667	5.91	667
212	0	0	0	0.785	6.28	627	6.28	627

* Design Condition

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SHEET 67 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.67

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.969	8.94	2487	8.89	2500*
0	0	0	0	0.785	8.47	1046	8.36	1060
30	0	0	0	0.785	9.09	975	8.97	988
40	0	0	0	0.785	9.29	955	9.17	967
50	0	0	0	0.785	9.48	935	9.36	947
60	0	0	0	0.785	9.67	917	9.55	928
70	0	0	0	0.785	9.86	900	9.74	911
80	0	0	0	0.785	10.04	884	9.92	894
90	0	0	0	0.785	10.22	868	10.1	878
100	0	0	0	0.785	10.4	853	10.28	863
110	0	0	0	0.785	10.57	840	10.45	849
120	0	0	0	0.785	10.68	831	10.62	835
130	0	0	0	0.785	10.79	823	10.79	823
167	0	0	0	0.785	11.18	794	11.18	794
212	0	0	0	0.785	11.63	764	11.63	764

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.969	15.91	2491	15.85	2500*
0	0	0	0	0.785	15.44	1023	15.32	1031
30	0	0	0	0.785	16.06	984	15.93	992
40	0	0	0	0.785	16.27	972	16.13	979
50	0	0	0	0.785	16.47	960	16.33	968
60	0	0	0	0.785	16.66	949	16.53	956
70	0	0	0	0.785	16.86	938	16.73	945
80	0	0	0	0.785	17.05	927	16.92	935
90	0	0	0	0.785	17.24	917	17.11	924
100	0	0	0	0.785	17.43	907	17.3	914
110	0	0	0	0.785	17.62	898	17.48	905
120	0	0	0	0.785	17.76	891	17.67	895
130	0	0	0	0.785	17.88	885	17.85	886
167	0	0	0	0.785	18.31	865	18.31	865
212	0	0	0	0.785	18.82	842	18.82	842

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.68

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.969	24.93	2493	24.86	2500*
0	0	0	0	0.785	24.45	1013	24.32	1018
30	0	0	0	0.785	25.08	988	24.94	993
40	0	0	0	0.785	25.28	980	25.14	985
50	0	0	0	0.785	25.49	973	25.35	978
60	0	0	0	0.785	25.69	965	25.55	970
70	0	0	0	0.785	25.89	958	25.75	963
80	0	0	0	0.785	26.09	951	25.94	956
90	0	0	0	0.785	26.29	944	26.14	949
100	0	0	0	0.785	26.48	937	26.34	942
110	0	0	0	0.785	26.68	930	26.53	935
120	0	0	0	0.785	26.84	925	26.72	929
130	0	0	0	0.785	26.96	920	26.91	922
167	0	0	0	0.785	27.42	905	27.42	905
212	0	0	0	0.785	27.96	888	27.96	888

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.69

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-1
100.00	0-11	1-1	1-2	1-4	1-6	1-7	1-8	1-10	1-11	2-0
125.00	1-5	1-8	1-10	2-1	2-3	2-6	2-8	2-10	3-0	3-1
150.00	2-0	2-4	2-8	3-0	3-3	3-7	3-10	4-1	4-4	4-5
175.00	2-9	3-2	3-8	4-1	4-6	4-10	5-3	5-7	5-10	6-1
200.00	3-7	4-2	4-9	5-4	5-10	6-4	6-10	7-3	7-8	7-11

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-1
100.00	0-11	1-1	1-3	1-5	1-6	1-8	1-9	1-10	1-11	2-0
125.00	1-6	1-9	1-11	2-2	2-4	2-7	2-9	2-11	3-0	3-1
150.00	2-1	2-6	2-10	3-1	3-5	3-8	3-11	4-2	4-4	4-5
175.00	2-11	3-4	3-10	4-3	4-8	5-0	5-4	5-8	5-10	6-1
200.00	3-9	4-5	5-0	5-7	6-1	6-7	7-0	7-5	7-8	7-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4
125.00	1-6	1-7	1-8	1-9	1-9	1-10	1-11	2-0	2-0	2-1
150.00	2-2	2-3	2-4	2-6	2-7	2-8	2-9	2-10	2-11	3-0
175.00	2-11	3-1	3-3	3-4	3-6	3-7	3-9	3-10	4-0	4-1
200.00	3-10	4-0	4-2	4-5	4-7	4-9	4-11	5-1	5-2	5-4
225.00	4-10	5-1	5-4	5-7	5-9	6-0	6-2	6-5	6-7	6-9
250.00	6-0	6-3	6-7	6-10	7-1	7-5	7-8	7-11	8-2	8-4

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4
125.00	1-6	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-1	2-1
150.00	2-2	2-4	2-5	2-6	2-7	2-8	2-10	2-11	3-0	3-0
175.00	3-0	3-2	3-3	3-5	3-7	3-8	3-10	3-11	4-1	4-2
200.00	3-11	4-1	4-4	4-6	4-8	4-10	5-0	5-2	5-3	5-5
225.00	5-0	5-2	5-5	5-8	5-11	6-1	6-4	6-6	6-8	6-10
250.00	6-1	6-5	6-9	7-0	7-3	7-6	7-9	8-0	8-3	8-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.71

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-6	2-7	2-7
175.00	3-0	3-1	3-1	3-2	3-3	3-4	3-4	3-5	3-6	3-7
200.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
225.00	4-11	5-1	5-2	5-3	5-4	5-6	5-7	5-8	5-9	5-11
250.00	6-1	6-3	6-4	6-6	6-8	6-9	6-11	7-0	7-2	7-3
275.00	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-9
300.00	8-9	9-0	9-2	9-4	9-7	9-9	9-11	10-1	10-3	10-5
325.00	10-4	10-6	10-9	11-0	11-3	11-5	11-8	11-10	12-1	12-3
350.00	11-11	12-3	12-6	12-9	13-0	13-3	13-6	13-9	14-0	14-3
375.00	13-9	14-0	14-4	14-8	14-11	15-3	15-6	15-10	16-1	16-4

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-3	2-4	2-4	2-5	2-6	2-6	2-7	2-7	2-8
175.00	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-6	3-7
200.00	3-11	4-0	4-1	4-3	4-4	4-5	4-5	4-6	4-7	4-8
225.00	5-0	5-1	5-3	5-4	5-5	5-6	5-8	5-9	5-10	5-11
250.00	6-2	6-4	6-5	6-7	6-9	6-10	7-0	7-1	7-3	7-4
275.00	7-6	7-8	7-10	8-0	8-1	8-3	8-5	8-7	8-9	8-11
300.00	8-11	9-1	9-3	9-6	9-8	9-10	10-0	10-3	10-5	10-7
325.00	10-5	10-8	10-11	11-2	11-4	11-7	11-9	12-0	12-2	12-5
350.00	12-1	12-5	12-8	12-11	13-2	13-5	13-8	13-11	14-2	14-5
375.00	13-11	14-3	14-6	14-10	15-1	15-5	15-8	16-0	16-3	16-6

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STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.72

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-3	4-4	4-4
225.00	5-0	5-0	5-1	5-2	5-3	5-3	5-4	5-5	5-6	5-6
250.00	6-2	6-3	6-4	6-4	6-5	6-6	6-7	6-8	6-9	6-10
275.00	7-5	7-6	7-7	7-9	7-10	7-11	8-0	8-1	8-2	8-3
300.00	8-10	8-11	9-1	9-2	9-3	9-5	9-6	9-7	9-9	9-10
325.00	10-5	10-6	10-8	10-9	10-11	11-0	11-2	11-3	11-5	11-6
350.00	12-0	12-2	12-4	12-6	12-8	12-10	12-11	13-1	13-3	13-5
375.00	13-10	14-0	14-2	14-4	14-6	14-8	14-10	15-0	15-2	15-4
400.00	15-9	15-11	16-2	16-4	16-6	16-9	16-11	17-1	17-4	17-6
425.00	17-9	18-0	18-3	18-5	18-8	18-11	19-1	19-4	19-6	19-9
450.00	19-11	20-2	20-5	20-8	20-11	21-2	21-5	21-8	21-11	22-2
475.00	22-2	22-6	22-9	23-1	23-4	23-7	23-11	24-2	24-5	24-8
500.00	24-7	24-11	25-3	25-7	25-10	26-2	26-6	26-9	27-1	27-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-0	4-0	4-1	4-1	4-2	4-2	4-3	4-4	4-4	4-5
225.00	5-0	5-1	5-2	5-2	5-3	5-4	5-5	5-5	5-6	5-7
250.00	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-10
275.00	7-6	7-7	7-8	7-9	7-10	8-0	8-1	8-2	8-3	8-4
300.00	8-11	9-0	9-2	9-3	9-4	9-6	9-7	9-8	9-10	9-11
325.00	10-6	10-7	10-9	10-10	11-0	11-1	11-3	11-4	11-6	11-7
350.00	12-2	12-4	12-5	12-7	12-9	12-11	13-1	13-2	13-4	13-6
375.00	13-11	14-1	14-4	14-6	14-8	14-10	15-0	15-2	15-4	15-6
400.00	15-10	16-1	16-3	16-6	16-8	16-10	17-1	17-3	17-5	17-7
425.00	17-11	18-2	18-4	18-7	18-10	19-0	19-3	19-6	19-8	19-11
450.00	20-1	20-4	20-7	20-10	21-1	21-4	21-7	21-10	22-1	22-4
475.00	22-5	22-8	22-11	23-3	23-6	23-10	24-1	24-4	24-7	24-11
500.00	24-10	25-2	25-5	25-9	26-1	26-5	26-8	27-0	27-3	27-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.73

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-2	6-3	6-3	6-4	6-4	6-5	6-6	6-6	6-7	6-7
275.00	7-6	7-6	7-7	7-8	7-9	7-9	7-10	7-11	7-11	8-0
300.00	8-11	9-0	9-0	9-1	9-2	9-3	9-4	9-5	9-6	9-6
325.00	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2
350.00	12-1	12-2	12-4	12-5	12-6	12-7	12-8	12-9	12-11	13-0
375.00	13-11	14-0	14-1	14-3	14-4	14-6	14-7	14-8	14-9	14-11
400.00	15-10	15-11	16-1	16-2	16-4	16-5	16-7	16-8	16-10	16-11
425.00	17-10	18-0	18-2	18-4	18-5	18-7	18-9	18-10	19-0	19-2
450.00	20-0	20-2	20-4	20-6	20-8	20-10	21-0	21-2	21-4	21-6
475.00	22-4	22-6	22-8	22-10	23-1	23-3	23-5	23-7	23-9	23-11
500.00	24-9	24-11	25-2	25-4	25-7	25-9	25-11	26-2	26-4	26-6
525.00	27-3	27-6	27-9	27-11	28-2	28-5	28-7	28-10	29-1	29-3
550.00	29-11	30-2	30-5	30-8	30-11	31-2	31-5	31-8	31-11	32-2
575.00	32-9	33-0	33-3	33-7	33-10	34-1	34-4	34-7	34-10	35-2
600.00	35-8	36-0	36-3	36-7	36-10	37-2	37-5	37-8	38-0	38-3
625.00	38-9	39-1	39-4	39-8	40-0	40-4	40-7	40-11	41-3	41-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-2	6-3	6-4	6-4	6-5	6-5	6-6	6-7	6-7	6-8
275.00	7-6	7-7	7-8	7-8	7-9	7-10	7-10	7-11	8-0	8-1
300.00	8-11	9-0	9-1	9-2	9-3	9-4	9-4	9-5	9-6	9-7
325.00	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2	11-3
350.00	12-2	12-3	12-4	12-6	12-7	12-8	12-9	12-10	12-11	13-1
375.00	14-0	14-1	14-2	14-4	14-5	14-6	14-8	14-9	14-10	15-0
400.00	15-11	16-0	16-2	16-3	16-5	16-7	16-8	16-10	16-11	17-1
425.00	17-11	18-1	18-3	18-5	18-6	18-8	18-10	19-0	19-1	19-3
450.00	20-2	20-4	20-6	20-8	20-10	20-11	21-1	21-3	21-5	21-7
475.00	22-5	22-8	22-10	23-0	23-2	23-4	23-6	23-9	23-11	24-1
500.00	24-10	25-1	25-3	25-6	25-8	25-11	26-1	26-3	26-6	26-8
525.00	27-5	27-8	27-11	28-1	28-4	28-7	28-9	29-0	29-2	29-5
550.00	30-1	30-4	30-7	30-10	31-1	31-4	31-7	31-10	32-1	32-4
575.00	32-11	33-2	33-6	33-9	34-0	34-3	34-6	34-10	35-1	35-4
600.00	35-10	36-2	36-6	36-9	37-1	37-4	37-8	37-11	38-2	38-6
625.00	38-11	39-3	39-7	39-11	40-3	40-6	40-10	41-2	41-6	41-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.74

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.969	0.82	3000	0.82	3000*
0	0	0	0	0.785	0.44	2235	0.42	2320
30	0	0	0	0.785	0.86	1137	0.8	1234
40	0	0	0	0.785	1.02	959	0.95	1033
50	0	0	0	0.785	1.18	834	1.1	891
60	0	0	0	0.785	1.32	744	1.25	787
70	0	0	0	0.785	1.45	676	1.38	710
80	0	0	0	0.785	1.58	622	1.51	650
90	0	0	0	0.785	1.7	580	1.63	602
100	0	0	0	0.785	1.76	558	1.75	563
110	0	0	0	0.785	1.83	538	1.82	538
120	0	0	0	0.785	1.89	520	1.89	520
130	0	0	0	0.785	1.95	504	1.95	504
167	0	0	0	0.785	2.17	453	2.17	453
212	0	0	0	0.785	2.41	407	2.41	408

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.969	3.33	2961	3.29	3000*
0	0	0	0	0.785	2.7	1454	2.56	1533
30	0	0	0	0.785	3.39	1158	3.25	1209
40	0	0	0	0.785	3.61	1090	3.46	1135
50	0	0	0	0.785	3.81	1032	3.67	1071
60	0	0	0	0.785	4.01	981	3.87	1017
70	0	0	0	0.785	4.2	937	4.06	969
80	0	0	0	0.785	4.38	898	4.24	927
90	0	0	0	0.785	4.55	864	4.42	890
100	0	0	0	0.785	4.72	833	4.59	857
110	0	0	0	0.785	4.85	811	4.76	827
120	0	0	0	0.785	4.95	795	4.92	799
130	0	0	0	0.785	5.05	779	5.05	779
167	0	0	0	0.785	5.4	729	5.4	729
212	0	0	0	0.785	5.8	679	5.8	679

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.75

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.969	7.49	2967	7.4	3000*
0	0	0	0	0.785	6.82	1297	6.63	1334
30	0	0	0	0.785	7.55	1172	7.36	1202
40	0	0	0	0.785	7.79	1137	7.6	1166
50	0	0	0	0.785	8.01	1106	7.82	1132
60	0	0	0	0.785	8.23	1076	8.04	1101
70	0	0	0	0.785	8.45	1049	8.26	1073
80	0	0	0	0.785	8.66	1024	8.47	1046
90	0	0	0	0.785	8.86	1000	8.68	1021
100	0	0	0	0.785	9.06	978	8.88	998
110	0	0	0	0.785	9.26	957	9.08	976
120	0	0	0	0.785	9.4	943	9.27	956
130	0	0	0	0.785	9.52	932	9.46	937
167	0	0	0	0.785	9.95	891	9.95	891
212	0	0	0	0.785	10.45	849	10.45	849

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.969	13.29	2977	13.19	3000*
0	0	0	0	0.785	12.62	1249	12.41	1270
30	0	0	0	0.785	13.36	1180	13.15	1199
40	0	0	0	0.785	13.6	1160	13.39	1178
50	0	0	0	0.785	13.83	1140	13.62	1158
60	0	0	0	0.785	14.07	1122	13.85	1139
70	0	0	0	0.785	14.29	1104	14.08	1121
80	0	0	0	0.785	14.52	1087	14.31	1103
90	0	0	0	0.785	14.74	1071	14.53	1086
100	0	0	0	0.785	14.96	1055	14.75	1070
110	0	0	0	0.785	15.18	1040	14.96	1055
120	0	0	0	0.785	15.37	1027	15.18	1040
130	0	0	0	0.785	15.5	1019	15.39	1026
167	0	0	0	0.785	15.99	988	15.99	988
212	0	0	0	0.785	16.56	955	16.56	955

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.76

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.969	20.77	2983	20.65	3000*
0	0	0	0	0.785	20.09	1229	19.87	1242
30	0	0	0	0.785	20.84	1185	20.61	1198
40	0	0	0	0.785	21.08	1172	20.86	1184
50	0	0	0	0.785	21.32	1159	21.1	1171
60	0	0	0	0.785	21.56	1146	21.33	1158
70	0	0	0	0.785	21.8	1134	21.57	1146
80	0	0	0	0.785	22.03	1122	21.8	1134
90	0	0	0	0.785	22.26	1111	22.03	1122
100	0	0	0	0.785	22.49	1099	22.26	1111
110	0	0	0	0.785	22.72	1089	22.49	1100
120	0	0	0	0.785	22.94	1078	22.71	1089
130	0	0	0	0.785	23.09	1071	22.93	1079
167	0	0	0	0.785	23.62	1048	23.62	1048
212	0	0	0	0.785	24.23	1022	24.23	1022

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.77

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0
100.00	0-8	0-10	0-11	1-1	1-3	1-5	1-6	1-8	1-9	1-10
125.00	1-0	1-3	1-6	1-9	1-11	2-2	2-4	2-7	2-9	2-10
150.00	1-5	1-9	2-2	2-6	2-10	3-1	3-5	3-8	3-11	4-1
175.00	2-0	2-5	2-11	3-5	3-10	4-3	4-8	5-0	5-4	5-7
200.00	2-7	3-2	3-10	4-5	5-0	5-6	6-1	6-6	7-0	7-4

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-0
100.00	0-8	0-10	1-0	1-2	1-4	1-5	1-7	1-8	1-9	1-10
125.00	1-1	1-4	1-7	1-10	2-1	2-3	2-6	2-8	2-9	2-10
150.00	1-7	1-11	2-4	2-8	3-0	3-3	3-7	3-10	4-0	4-1
175.00	2-2	2-8	3-2	3-7	4-1	4-5	4-10	5-2	5-5	5-7
200.00	2-10	3-5	4-1	4-9	5-3	5-10	6-4	6-9	7-1	7-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.78

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2
125.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-10
150.00	1-8	1-10	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-8
175.00	2-4	2-6	2-8	2-10	3-0	3-1	3-3	3-5	3-6	3-8
200.00	3-0	3-3	3-6	3-8	3-10	4-1	4-3	4-5	4-7	4-9
225.00	3-10	4-1	4-5	4-8	4-11	5-2	5-4	5-7	5-10	6-0
250.00	4-9	5-1	5-5	5-9	6-1	6-4	6-8	6-11	7-2	7-5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-11
150.00	1-9	1-11	2-0	2-2	2-3	2-4	2-6	2-7	2-8	2-9
175.00	2-5	2-7	2-9	2-11	3-1	3-3	3-4	3-6	3-7	3-9
200.00	3-2	3-5	3-7	3-10	4-0	4-2	4-5	4-7	4-9	4-10
225.00	4-0	4-4	4-7	4-10	5-1	5-4	5-6	5-9	6-0	6-2
250.00	4-11	5-4	5-8	5-11	6-3	6-7	6-10	7-1	7-5	7-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.79

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-3
175.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1
200.00	3-2	3-3	3-4	3-6	3-7	3-8	3-9	3-10	3-11	4-0
225.00	4-0	4-2	4-3	4-5	4-6	4-8	4-9	4-11	5-0	5-1
250.00	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-0	6-2	6-4
275.00	6-0	6-2	6-5	6-7	6-9	6-11	7-1	7-3	7-6	7-8
300.00	7-2	7-4	7-7	7-10	8-1	8-3	8-6	8-8	8-11	9-1
325.00	8-4	8-8	8-11	9-2	9-5	9-8	9-11	10-2	10-5	10-8
350.00	9-8	10-0	10-4	10-8	10-11	11-3	11-6	11-10	12-1	12-4
375.00	11-2	11-6	11-10	12-3	12-7	12-11	13-3	13-7	13-11	14-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4
175.00	2-6	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-1	3-2
200.00	3-3	3-4	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1
225.00	4-1	4-3	4-5	4-6	4-8	4-9	4-10	5-0	5-1	5-2
250.00	5-1	5-3	5-5	5-7	5-9	5-10	6-0	6-2	6-3	6-5
275.00	6-2	6-4	6-6	6-9	6-11	7-1	7-3	7-5	7-7	7-9
300.00	7-4	7-7	7-9	8-0	8-3	8-5	8-8	8-10	9-1	9-3
325.00	8-7	8-10	9-2	9-5	9-8	9-11	10-2	10-5	10-8	10-10
350.00	10-0	10-3	10-7	10-11	11-2	11-6	11-9	12-1	12-4	12-7
375.00	11-5	11-10	12-2	12-6	12-10	13-2	13-6	13-10	14-2	14-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.80

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-3	3-3	3-4	3-5	3-6	3-6	3-7	3-8	3-8	3-9
225.00	4-1	4-2	4-3	4-4	4-5	4-5	4-6	4-7	4-8	4-9
250.00	5-0	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10
275.00	6-1	6-3	6-4	6-5	6-6	6-8	6-9	6-10	7-0	7-1
300.00	7-3	7-5	7-6	7-8	7-9	7-11	8-0	8-2	8-3	8-5
325.00	8-6	8-8	8-10	9-0	9-2	9-3	9-5	9-7	9-9	9-10
350.00	9-11	10-1	10-3	10-5	10-7	10-9	10-11	11-1	11-3	11-5
375.00	11-4	11-7	11-9	12-0	12-2	12-4	12-7	12-9	12-11	13-2
400.00	12-11	13-2	13-5	13-7	13-10	14-1	14-4	14-6	14-9	15-0
425.00	14-7	14-10	15-1	15-5	15-8	15-11	16-2	16-5	16-8	16-11
450.00	16-4	16-8	16-11	17-3	17-6	17-10	18-1	18-5	18-8	18-11
475.00	18-2	18-7	18-11	19-3	19-7	19-10	20-2	20-6	20-10	21-1
500.00	20-2	20-7	20-11	21-4	21-8	22-0	22-4	22-9	23-1	23-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-3	3-4	3-5	3-5	3-6	3-7	3-8	3-8	3-9	3-9
225.00	4-2	4-3	4-4	4-4	4-5	4-6	4-7	4-8	4-9	4-10
250.00	5-1	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11
275.00	6-2	6-4	6-5	6-6	6-8	6-9	6-10	7-0	7-1	7-2
300.00	7-4	7-6	7-8	7-9	7-11	8-0	8-2	8-3	8-5	8-6
325.00	8-8	8-10	9-0	9-2	9-3	9-5	9-7	9-9	9-10	10-0
350.00	10-0	10-3	10-5	10-7	10-9	10-11	11-1	11-3	11-5	11-7
375.00	11-6	11-9	11-11	12-2	12-4	12-7	12-9	12-11	13-2	13-4
400.00	13-1	13-4	13-7	13-10	14-1	14-4	14-6	14-9	15-0	15-2
425.00	14-10	15-1	15-4	15-7	15-11	16-2	16-5	16-8	16-11	17-2
450.00	16-7	16-11	17-3	17-6	17-10	18-1	18-5	18-8	18-11	19-3
475.00	18-6	18-10	19-2	19-6	19-10	20-2	20-6	20-10	21-1	21-5
500.00	20-6	20-11	21-3	21-8	22-0	22-4	22-9	23-1	23-5	23-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.81

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-1	5-2	5-2	5-3	5-4	5-5	5-5	5-6	5-7	5-7
275.00	6-2	6-3	6-4	6-4	6-5	6-6	6-7	6-8	6-9	6-9
300.00	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1
325.00	8-7	8-8	8-10	8-11	9-0	9-1	9-2	9-4	9-5	9-6
350.00	10-0	10-1	10-2	10-4	10-5	10-7	10-8	10-9	10-11	11-0
375.00	11-5	11-7	11-9	11-10	12-0	12-1	12-3	12-5	12-6	12-8
400.00	13-0	13-2	13-4	13-6	13-8	13-10	13-11	14-1	14-3	14-5
425.00	14-8	14-11	15-1	15-3	15-5	15-7	15-9	15-11	16-1	16-3
450.00	16-6	16-8	16-11	17-1	17-3	17-6	17-8	17-10	18-0	18-2
475.00	18-5	18-7	18-10	19-0	19-3	19-6	19-8	19-11	20-1	20-3
500.00	20-4	20-7	20-10	21-1	21-4	21-7	21-10	22-0	22-3	22-6
525.00	22-6	22-9	23-0	23-3	23-6	23-9	24-1	24-4	24-7	24-10
550.00	24-8	24-11	25-3	25-6	25-10	26-1	26-5	26-8	26-11	27-3
575.00	26-11	27-3	27-7	27-11	28-3	28-7	28-10	29-2	29-6	29-9
600.00	29-4	29-9	30-1	30-5	30-9	31-1	31-5	31-9	32-1	32-5
625.00	31-10	32-3	32-8	33-0	33-5	33-9	34-1	34-6	34-10	35-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-2	5-2	5-3	5-4	5-5	5-5	5-6	5-7	5-7	5-8
275.00	6-3	6-4	6-4	6-5	6-6	6-7	6-8	6-9	6-9	6-10
300.00	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2
325.00	8-8	8-10	8-11	9-0	9-1	9-2	9-4	9-5	9-6	9-7
350.00	10-1	10-2	10-4	10-5	10-7	10-8	10-9	10-11	11-0	11-1
375.00	11-7	11-9	11-10	12-0	12-1	12-3	12-5	12-6	12-8	12-9
400.00	13-2	13-4	13-6	13-8	13-9	13-11	14-1	14-3	14-5	14-6
425.00	14-10	15-1	15-3	15-5	15-7	15-9	15-11	16-1	16-3	16-5
450.00	16-8	16-10	17-1	17-3	17-5	17-8	17-10	18-0	18-3	18-5
475.00	18-7	18-10	19-0	19-3	19-5	19-8	19-11	20-1	20-4	20-6
500.00	20-7	20-10	21-1	21-4	21-7	21-10	22-0	22-3	22-6	22-9
525.00	22-9	23-0	23-3	23-6	23-9	24-0	24-4	24-7	24-10	25-1
550.00	24-11	25-3	25-6	25-10	26-1	26-5	26-8	26-11	27-3	27-6
575.00	27-3	27-7	27-11	28-3	28-6	28-10	29-2	29-6	29-9	30-1
600.00	29-8	30-0	30-5	30-9	31-1	31-5	31-9	32-1	32-5	32-9
625.00	32-3	32-7	33-0	33-4	33-9	34-1	34-6	34-10	35-2	35-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.82

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.403	5.57	1000	5.57	1000*
0	0	0	0	0.785	5.5	180	5.5	181
30	0	0	0	0.785	5.63	176	5.63	177
40	0	0	0	0.785	5.67	175	5.67	175
50	0	0	0	0.785	5.71	174	5.71	174
60	0	0	0	0.785	5.75	173	5.74	173
70	0	0	0	0.785	5.77	172	5.77	172
80	0	0	0	0.785	5.8	172	5.8	172
90	0	0	0	0.785	5.82	171	5.82	171
100	0	0	0	0.785	5.84	170	5.84	170
110	0	0	0	0.785	5.87	170	5.87	170
120	0	0	0	0.785	5.89	169	5.89	169
130	0	0	0	0.785	5.91	168	5.91	168
167	0	0	0	0.785	6	166	6	166
212	0	0	0	0.785	6.1	163	6.1	163

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.403	23.2	1000	23.2	1000*
0	0	0	0	0.785	23.14	179	23.13	179
30	0	0	0	0.785	23.27	178	23.26	178
40	0	0	0	0.785	23.31	178	23.3	178
50	0	0	0	0.785	23.34	177	23.34	177
60	0	0	0	0.785	23.38	177	23.38	177
70	0	0	0	0.785	23.41	177	23.41	177
80	0	0	0	0.785	23.43	177	23.43	177
90	0	0	0	0.785	23.46	177	23.46	177
100	0	0	0	0.785	23.48	176	23.48	176
110	0	0	0	0.785	23.51	176	23.51	176
120	0	0	0	0.785	23.53	176	23.53	176
130	0	0	0	0.785	23.55	176	23.55	176
167	0	0	0	0.785	23.64	175	23.64	175
212	0	0	0	0.785	23.75	175	23.75	175

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.83

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.403	56.67	1000	56.67	1000*
0	0	0	0	0.785	56.6	178	56.6	178
30	0	0	0	0.785	56.73	178	56.73	178
40	0	0	0	0.785	56.77	178	56.77	178
50	0	0	0	0.785	56.81	178	56.81	178
60	0	0	0	0.785	56.85	178	56.84	178
70	0	0	0	0.785	56.88	178	56.88	178
80	0	0	0	0.785	56.9	178	56.9	178
90	0	0	0	0.785	56.92	178	56.92	178
100	0	0	0	0.785	56.95	178	56.95	178
110	0	0	0	0.785	56.97	178	56.97	178
120	0	0	0	0.785	57	178	57	178
130	0	0	0	0.785	57.02	177	57.02	177
167	0	0	0	0.785	57.11	177	57.11	177
212	0	0	0	0.785	57.22	177	57.22	177

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.403	120.85	1000	120.85	1000*
0	0	0	0	0.785	120.79	178	120.78	178
30	0	0	0	0.785	120.91	178	120.9	178
40	0	0	0	0.785	120.95	178	120.94	178
50	0	0	0	0.785	120.98	178	120.98	178
60	0	0	0	0.785	121.02	178	121.01	178
70	0	0	0	0.785	121.05	178	121.05	178
80	0	0	0	0.785	121.07	178	121.07	178
90	0	0	0	0.785	121.09	178	121.09	178
100	0	0	0	0.785	121.12	178	121.12	178
110	0	0	0	0.785	121.14	178	121.14	178
120	0	0	0	0.785	121.16	178	121.16	178
130	0	0	0	0.785	121.19	178	121.19	178
167	0	0	0	0.785	121.27	178	121.27	178
212	0	0	0	0.785	121.37	178	121.37	178

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.84

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	3- 2	3- 2	3- 2	3- 2	3- 3	3- 3	3- 3	3- 3	3- 3	3- 4
100.00	5- 7	5- 8	5- 8	5- 8	5- 9	5- 9	5-10	5-10	5-10	5-10
125.00	8- 9	8-10	8-11	8-11	9- 0	9- 1	9- 1	9- 1	9- 2	9- 2
150.00	12- 8	12- 9	12-10	12-11	13- 0	13- 1	13- 1	13- 2	13- 3	13- 3
175.00	17- 3	17- 5	17- 6	17- 8	17- 9	17-10	17-11	18- 0	18- 1	18- 2
200.00	22- 7	22- 9	23- 0	23- 1	23- 3	23- 5	23- 6	23- 7	23- 8	23-10

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	3- 2	3- 2	3- 2	3- 2	3- 3	3- 3	3- 3	3- 3	3- 3	3- 4
100.00	5- 7	5- 8	5- 8	5- 9	5- 9	5- 9	5-10	5-10	5-10	5-10
125.00	8- 9	8-10	8-11	8-11	9- 0	9- 1	9- 1	9- 1	9- 2	9- 2
150.00	12- 8	12- 9	12-10	12-11	13- 0	13- 1	13- 1	13- 2	13- 3	13- 3
175.00	17- 3	17- 5	17- 6	17- 8	17- 9	17-10	17-11	18- 0	18- 1	18- 2
200.00	22- 8	22-10	23- 0	23- 2	23- 3	23- 5	23- 6	23- 7	23- 8	23-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.85

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	5- 9	5- 9	5- 9	5- 9	5- 9	5- 9	5- 9	5- 9	5-10	5-10
125.00	9- 0	9- 0	9- 0	9- 0	9- 0	9- 1	9- 1	9- 1	9- 1	9- 1
150.00	13- 0	13- 0	13- 0	13- 0	13- 1	13- 1	13- 1	13- 1	13- 1	13- 1
175.00	17- 8	17- 9	17- 9	17-10	17-10	17-10	17-10	17-11	17-11	17-11
200.00	23- 3	23- 3	23- 4	23- 4	23- 5	23- 5	23- 5	23- 5	23- 6	23- 6
225.00	29- 6	29- 7	29- 8	29- 8	29- 9	29- 9	29-10	29-10	29-10	29-11
250.00	36- 8	36- 8	36- 9	36-10	36-11	36-11	37- 0	37- 0	37- 1	37- 1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	5- 9	5- 9	5- 9	5- 9	5- 9	5- 9	5- 9	5- 9	5-10	5-10
125.00	9- 0	9- 0	9- 0	9- 0	9- 0	9- 1	9- 1	9- 1	9- 1	9- 1
150.00	13- 0	13- 0	13- 0	13- 0	13- 1	13- 1	13- 1	13- 1	13- 1	13- 1
175.00	17- 8	17- 9	17- 9	17-10	17-10	17-10	17-10	17-11	17-11	17-11
200.00	23- 3	23- 3	23- 4	23- 4	23- 5	23- 5	23- 5	23- 5	23- 6	23- 6
225.00	29- 6	29- 7	29- 8	29- 8	29- 9	29- 9	29-10	29-10	29-10	29-11
250.00	36- 8	36- 9	36- 9	36-10	36-11	36-11	37- 0	37- 0	37- 1	37- 1

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SHEET 86 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.86

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	13- 9	13- 9	13- 9	13- 9	13- 9	13- 9	13- 9	13- 9	13- 9	13- 9
175.00	18- 9	18- 9	18- 9	18- 9	18-10	18-10	18-10	18-10	18-10	18-10
200.00	24- 7	24- 7	24- 8	24- 8	24- 8	24- 8	24- 8	24- 8	24- 8	24- 9
225.00	31- 3	31- 4	31- 4	31- 4	31- 4	31- 5	31- 5	31- 5	31- 5	31- 5
250.00	38-10	38-10	38-11	38-11	38-11	39- 0	39- 0	39- 0	39- 0	39- 0
275.00	47- 4	47- 4	47- 4	47- 5	47- 5	47- 6	47- 6	47- 6	47- 6	47- 6
300.00	56- 8	56- 9	56- 9	56-10	56-10	56-11	56-11	56-11	56-11	57- 0
325.00	67- 0	67- 1	67- 2	67- 2	67- 3	67- 3	67- 3	67- 4	67- 4	67- 4
350.00	78- 4	78- 5	78- 6	78- 6	78- 7	78- 8	78- 8	78- 8	78- 9	78- 9
375.00	90- 9	90-10	90-11	90-11	91- 0	91- 1	91- 1	91- 2	91- 2	91- 3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	13- 9	13- 9	13- 9	13- 9	13- 9	13- 9	13- 9	13- 9	13- 9	13- 9
175.00	18- 9	18- 9	18- 9	18- 9	18-10	18-10	18-10	18-10	18-10	18-10
200.00	24- 7	24- 7	24- 8	24- 8	24- 8	24- 8	24- 8	24- 8	24- 8	24- 9
225.00	31- 3	31- 4	31- 4	31- 4	31- 4	31- 5	31- 5	31- 5	31- 5	31- 5
250.00	38-10	38-11	38-11	38-11	38-11	39- 0	39- 0	39- 0	39- 0	39- 0
275.00	47- 4	47- 4	47- 5	47- 5	47- 5	47- 6	47- 6	47- 6	47- 6	47- 6
300.00	56- 8	56- 9	56- 9	56-10	56-10	56-11	56-11	56-11	56-11	57- 0
325.00	67- 0	67- 1	67- 2	67- 2	67- 3	67- 3	67- 3	67- 4	67- 4	67- 4
350.00	78- 4	78- 5	78- 6	78- 7	78- 7	78- 8	78- 8	78- 8	78- 9	78- 9
375.00	90- 9	90-10	90-11	90-11	91- 0	91- 1	91- 1	91- 2	91- 2	91- 3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.87

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	28- 1	28- 1	28- 1	28- 1	28- 1	28- 1	28- 1	28- 1	28- 1	28- 1
225.00	35- 9	35- 9	35- 9	35- 9	35- 9	35-10	35-10	35-10	35-10	35-10
250.00	44- 6	44- 6	44- 6	44- 6	44- 6	44- 6	44- 6	44- 6	44- 7	44- 7
275.00	54- 3	54- 3	54- 3	54- 3	54- 4	54- 4	54- 4	54- 4	54- 4	54- 4
300.00	65- 1	65- 2	65- 2	65- 2	65- 2	65- 3	65- 3	65- 3	65- 3	65- 3
325.00	77- 2	77- 2	77- 3	77- 3	77- 3	77- 3	77- 4	77- 4	77- 4	77- 4
350.00	90- 5	90- 6	90- 6	90- 6	90- 6	90- 7	90- 7	90- 7	90- 7	90- 8
375.00	105- 0	105- 0	105- 1	105- 1	105- 1	105- 2	105- 2	105- 2	105- 2	105- 3
400.00	120-10	120-11	120-11	121- 0	121- 0	121- 1	121- 1	121- 1	121- 1	121- 2
425.00	138- 2	138- 3	138- 3	138- 4	138- 4	138- 5	138- 5	138- 5	138- 6	138- 6
450.00	157- 0	157- 1	157- 1	157- 2	157- 2	157- 3	157- 3	157- 4	157- 4	157- 4
475.00	177- 5	177- 5	177- 6	177- 7	177- 8	177- 8	177- 9	177- 9	177- 9	177-10
500.00	199- 6	199- 7	199- 8	199- 8	199- 9	199-10	199-10	199-11	199-11	200- 0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	28- 1	28- 1	28- 1	28- 1	28- 1	28- 1	28- 1	28- 1	28- 1	28- 1
225.00	35- 9	35- 9	35- 9	35- 9	35- 9	35-10	35-10	35-10	35-10	35-10
250.00	44- 6	44- 6	44- 6	44- 6	44- 6	44- 6	44- 6	44- 6	44- 7	44- 7
275.00	54- 3	54- 3	54- 3	54- 3	54- 4	54- 4	54- 4	54- 4	54- 4	54- 4
300.00	65- 1	65- 2	65- 2	65- 2	65- 2	65- 3	65- 3	65- 3	65- 3	65- 3
325.00	77- 2	77- 2	77- 3	77- 3	77- 3	77- 3	77- 4	77- 4	77- 4	77- 4
350.00	90- 5	90- 6	90- 6	90- 6	90- 7	90- 7	90- 7	90- 7	90- 7	90- 8
375.00	105- 0	105- 0	105- 1	105- 1	105- 1	105- 2	105- 2	105- 2	105- 2	105- 3
400.00	120-10	120-11	120-11	121- 0	121- 0	121- 1	121- 1	121- 1	121- 1	121- 2
425.00	138- 2	138- 3	138- 3	138- 4	138- 4	138- 5	138- 5	138- 5	138- 6	138- 6
450.00	157- 0	157- 1	157- 1	157- 2	157- 2	157- 3	157- 3	157- 4	157- 4	157- 4
475.00	177- 5	177- 6	177- 6	177- 7	177- 8	177- 8	177- 9	177- 9	177- 9	177-10
500.00	199- 6	199- 7	199- 8	199- 8	199- 9	199-10	199-10	199-11	199-11	200- 0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.88

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.403	3.69	1500	3.69	1500*
0	0	0	0	0.785	3.55	277	3.54	279
30	0	0	0	0.785	3.75	263	3.73	264
40	0	0	0	0.785	3.81	259	3.79	260
50	0	0	0	0.785	3.86	256	3.85	257
60	0	0	0	0.785	3.91	252	3.9	253
70	0	0	0	0.785	3.96	249	3.95	250
80	0	0	0	0.785	3.99	247	3.99	247
90	0	0	0	0.785	4.03	245	4.03	245
100	0	0	0	0.785	4.06	243	4.06	243
110	0	0	0	0.785	4.09	241	4.09	241
120	0	0	0	0.785	4.13	239	4.13	239
130	0	0	0	0.785	4.16	238	4.16	238
167	0	0	0	0.785	4.28	231	4.28	231
212	0	0	0	0.785	4.42	224	4.42	224

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.403	15.01	1500	15.01	1500*
0	0	0	0	0.785	14.87	270	14.85	270
30	0	0	0	0.785	15.07	266	15.05	267
40	0	0	0	0.785	15.13	265	15.11	266
50	0	0	0	0.785	15.18	265	15.17	265
60	0	0	0	0.785	15.24	264	15.22	264
70	0	0	0	0.785	15.29	263	15.28	263
80	0	0	0	0.785	15.32	262	15.32	262
90	0	0	0	0.785	15.36	262	15.36	262
100	0	0	0	0.785	15.4	261	15.4	261
110	0	0	0	0.785	15.43	260	15.43	260
120	0	0	0	0.785	15.47	260	15.47	260
130	0	0	0	0.785	15.5	259	15.5	259
167	0	0	0	0.785	15.63	257	15.63	257
212	0	0	0	0.785	15.79	255	15.79	255

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.89

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.403	34.81	1500	34.81	1500*
0	0	0	0	0.785	34.67	268	34.65	269
30	0	0	0	0.785	34.87	267	34.85	267
40	0	0	0	0.785	34.92	267	34.91	267
50	0	0	0	0.785	34.98	266	34.97	266
60	0	0	0	0.785	35.04	266	35.02	266
70	0	0	0	0.785	35.09	266	35.08	266
80	0	0	0	0.785	35.13	265	35.13	265
90	0	0	0	0.785	35.16	265	35.16	265
100	0	0	0	0.785	35.2	265	35.2	265
110	0	0	0	0.785	35.23	265	35.23	265
120	0	0	0	0.785	35.27	264	35.27	264
130	0	0	0	0.785	35.31	264	35.31	264
167	0	0	0	0.785	35.44	263	35.44	263
212	0	0	0	0.785	35.6	262	35.6	262

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.403	64.94	1500	64.94	1500*
0	0	0	0	0.785	64.81	268	64.79	268
30	0	0	0	0.785	65	267	64.98	267
40	0	0	0	0.785	65.06	267	65.05	267
50	0	0	0	0.785	65.11	267	65.1	267
60	0	0	0	0.785	65.17	267	65.16	267
70	0	0	0	0.785	65.22	267	65.21	267
80	0	0	0	0.785	65.26	266	65.26	266
90	0	0	0	0.785	65.29	266	65.29	266
100	0	0	0	0.785	65.33	266	65.33	266
110	0	0	0	0.785	65.37	266	65.37	266
120	0	0	0	0.785	65.4	266	65.4	266
130	0	0	0	0.785	65.44	266	65.44	266
167	0	0	0	0.785	65.57	265	65.57	265
212	0	0	0	0.785	65.74	265	65.74	265

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.90

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.403	109.57	1500	109.57	1500*
0	0	0	0	0.785	109.44	268	109.42	268
30	0	0	0	0.785	109.63	267	109.61	267
40	0	0	0	0.785	109.68	267	109.67	267
50	0	0	0	0.785	109.74	267	109.73	267
60	0	0	0	0.785	109.79	267	109.78	267
70	0	0	0	0.785	109.85	267	109.84	267
80	0	0	0	0.785	109.88	267	109.88	267
90	0	0	0	0.785	109.92	267	109.92	267
100	0	0	0	0.785	109.95	267	109.95	267
110	0	0	0	0.785	109.99	267	109.99	267
120	0	0	0	0.785	110.03	267	110.03	267
130	0	0	0	0.785	110.06	267	110.06	267
167	0	0	0	0.785	110.19	266	110.19	266
212	0	0	0	0.785	110.35	266	110.35	266

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-1	2-1	2-2	2-2	2-2	2-3	2-3	2-3	2-3	2-4
100.00	3-8	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-1	4-1
125.00	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-4	6-5
150.00	8-3	8-5	8-7	8-8	8-10	8-11	9-0	9-1	9-2	9-3
175.00	11-3	11-6	11-8	11-10	12-0	12-2	12-3	12-5	12-6	12-7
200.00	14-9	15-0	15-3	15-6	15-8	15-11	16-1	16-3	16-4	16-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-1	2-1	2-2	2-2	2-2	2-3	2-3	2-3	2-3	2-4
100.00	3-8	3-9	3-10	3-10	3-11	4-0	4-0	4-0	4-1	4-1
125.00	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-4	6-5
150.00	8-4	8-5	8-7	8-8	8-10	8-11	9-0	9-1	9-2	9-3
175.00	11-4	11-6	11-8	11-10	12-0	12-2	12-3	12-5	12-6	12-7
200.00	14-10	15-1	15-4	15-6	15-9	15-11	16-1	16-3	16-4	16-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.92

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-9	3-9	3-9	3-9	3-9	3-10	3-10	3-10	3-10	3-10
125.00	5-10	5-10	5-11	5-11	5-11	5-11	5-11	6-0	6-0	6-0
150.00	8-5	8-5	8-6	8-6	8-6	8-7	8-7	8-7	8-8	8-8
175.00	11-5	11-6	11-7	11-7	11-8	11-8	11-9	11-9	11-9	11-10
200.00	15-0	15-1	15-1	15-2	15-3	15-3	15-4	15-4	15-5	15-5
225.00	19-0	19-1	19-2	19-3	19-4	19-5	19-5	19-6	19-6	19-7
250.00	23-6	23-7	23-9	23-10	23-11	24-0	24-1	24-1	24-2	24-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-9	3-9	3-9	3-9	3-9	3-10	3-10	3-10	3-10	3-10
125.00	5-10	5-10	5-11	5-11	5-11	5-11	5-11	6-0	6-0	6-0
150.00	8-5	8-5	8-6	8-6	8-7	8-7	8-7	8-7	8-8	8-8
175.00	11-6	11-6	11-7	11-7	11-8	11-8	11-9	11-9	11-9	11-10
200.00	15-0	15-1	15-2	15-2	15-3	15-3	15-4	15-4	15-5	15-5
225.00	19-0	19-1	19-2	19-3	19-4	19-5	19-5	19-6	19-6	19-7
250.00	23-6	23-8	23-9	23-10	23-11	24-0	24-1	24-1	24-2	24-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.93

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	8-7	8-7	8-7	8-8	8-8	8-8	8-8	8-8	8-8	8-8
175.00	11-8	11-9	11-9	11-9	11-9	11-10	11-10	11-10	11-10	11-10
200.00	15-4	15-4	15-4	15-5	15-5	15-5	15-6	15-6	15-6	15-6
225.00	19-5	19-5	19-6	19-6	19-7	19-7	19-7	19-8	19-8	19-8
250.00	24-0	24-1	24-1	24-2	24-2	24-3	24-3	24-3	24-4	24-4
275.00	29-2	29-2	29-3	29-4	29-4	29-5	29-5	29-6	29-6	29-6
300.00	34-9	34-10	34-11	35-0	35-0	35-1	35-2	35-2	35-2	35-3
325.00	40-11	41-0	41-1	41-2	41-3	41-4	41-4	41-5	41-5	41-6
350.00	47-8	47-9	47-10	47-11	48-0	48-1	48-1	48-2	48-3	48-3
375.00	54-11	55-0	55-1	55-2	55-3	55-4	55-5	55-6	55-7	55-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	8-7	8-7	8-7	8-8	8-8	8-8	8-8	8-8	8-8	8-8
175.00	11-8	11-9	11-9	11-9	11-9	11-10	11-10	11-10	11-10	11-10
200.00	15-4	15-4	15-4	15-5	15-5	15-5	15-6	15-6	15-6	15-6
225.00	19-5	19-6	19-6	19-6	19-7	19-7	19-7	19-8	19-8	19-8
250.00	24-0	24-1	24-1	24-2	24-2	24-3	24-3	24-3	24-4	24-4
275.00	29-2	29-3	29-3	29-4	29-4	29-5	29-5	29-6	29-6	29-6
300.00	34-10	34-10	34-11	35-0	35-0	35-1	35-2	35-2	35-2	35-3
325.00	41-0	41-1	41-1	41-2	41-3	41-4	41-4	41-5	41-5	41-6
350.00	47-8	47-9	47-10	47-11	48-0	48-1	48-1	48-2	48-3	48-3
375.00	54-11	55-0	55-1	55-2	55-3	55-4	55-5	55-6	55-7	55-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.94

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	15-10	15-10	15-10	15-11	15-11	15-11	15-11	15-11	15-11	15-11
225.00	20-1	20-1	20-1	20-2	20-2	20-2	20-2	20-2	20-2	20-3
250.00	24-10	24-11	24-11	24-11	24-11	25-0	25-0	25-0	25-0	25-0
275.00	30-2	30-2	30-3	30-3	30-3	30-3	30-4	30-4	30-4	30-4
300.00	36-0	36-0	36-1	36-1	36-2	36-2	36-2	36-2	36-3	36-3
325.00	42-5	42-5	42-6	42-6	42-6	42-7	42-7	42-7	42-8	42-8
350.00	49-4	49-4	49-5	49-6	49-6	49-7	49-7	49-7	49-8	49-8
375.00	56-10	56-11	56-11	57-0	57-0	57-1	57-2	57-2	57-2	57-3
400.00	64-11	65-0	65-1	65-1	65-2	65-3	65-3	65-4	65-4	65-4
425.00	73-7	73-8	73-9	73-10	73-10	73-11	74-0	74-0	74-1	74-1
450.00	82-11	83-0	83-1	83-1	83-2	83-3	83-4	83-4	83-5	83-6
475.00	92-9	92-10	93-0	93-1	93-2	93-2	93-3	93-4	93-5	93-5
500.00	103-4	103-5	103-6	103-7	103-8	103-10	103-10	103-11	104-0	104-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	15-10	15-10	15-10	15-11	15-11	15-11	15-11	15-11	15-11	15-11
225.00	20-1	20-1	20-2	20-2	20-2	20-2	20-2	20-2	20-2	20-3
250.00	24-10	24-11	24-11	24-11	24-11	25-0	25-0	25-0	25-0	25-0
275.00	30-2	30-2	30-3	30-3	30-3	30-4	30-4	30-4	30-4	30-4
300.00	36-0	36-1	36-1	36-1	36-2	36-2	36-2	36-2	36-3	36-3
325.00	42-5	42-5	42-6	42-6	42-7	42-7	42-7	42-7	42-8	42-8
350.00	49-4	49-5	49-5	49-6	49-6	49-7	49-7	49-7	49-8	49-8
375.00	56-10	56-11	56-11	57-0	57-1	57-1	57-2	57-2	57-2	57-3
400.00	64-11	65-0	65-1	65-1	65-2	65-3	65-3	65-4	65-4	65-4
425.00	73-7	73-8	73-9	73-10	73-11	73-11	74-0	74-0	74-1	74-1
450.00	82-11	83-0	83-1	83-2	83-2	83-3	83-4	83-4	83-5	83-6
475.00	92-10	92-11	93-0	93-1	93-2	93-3	93-3	93-4	93-5	93-5
500.00	103-4	103-5	103-7	103-8	103-9	103-10	103-10	103-11	104-0	104-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.95

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	26-3	26-3	26-3	26-3	26-4	26-4	26-4	26-4	26-4	26-4
275.00	31-10	31-10	31-11	31-11	31-11	31-11	31-11	31-11	32-0	32-0
300.00	38-0	38-1	38-1	38-1	38-1	38-2	38-2	38-2	38-2	38-2
325.00	44-10	44-10	44-10	44-10	44-11	44-11	44-11	44-11	44-11	45-0
350.00	52-2	52-2	52-2	52-3	52-3	52-3	52-4	52-4	52-4	52-4
375.00	60-1	60-2	60-2	60-2	60-3	60-3	60-3	60-4	60-4	60-4
400.00	68-8	68-9	68-9	68-10	68-10	68-10	68-11	68-11	68-11	69-0
425.00	77-11	78-0	78-0	78-0	78-1	78-1	78-2	78-2	78-2	78-3
450.00	87-9	87-10	87-11	87-11	88-0	88-0	88-1	88-1	88-1	88-2
475.00	98-4	98-5	98-5	98-6	98-6	98-7	98-7	98-8	98-8	98-9
500.00	109-7	109-7	109-8	109-9	109-9	109-10	109-11	109-11	109-11	110-0
525.00	121-6	121-7	121-7	121-8	121-9	121-10	121-10	121-11	121-11	122-0
550.00	134-2	134-3	134-3	134-4	134-5	134-6	134-7	134-7	134-8	134-8
575.00	147-6	147-7	147-8	147-9	147-10	147-11	148-0	148-1	148-1	148-2
600.00	161-8	161-10	161-11	162-0	162-1	162-2	162-3	162-3	162-4	162-5
625.00	176-8	176-9	176-11	177-0	177-1	177-2	177-3	177-4	177-4	177-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	26-3	26-3	26-3	26-3	26-4	26-4	26-4	26-4	26-4	26-4
275.00	31-10	31-10	31-11	31-11	31-11	31-11	31-11	31-11	32-0	32-0
300.00	38-0	38-1	38-1	38-1	38-1	38-2	38-2	38-2	38-2	38-2
325.00	44-10	44-10	44-10	44-10	44-11	44-11	44-11	44-11	44-11	45-0
350.00	52-2	52-2	52-3	52-3	52-3	52-3	52-4	52-4	52-4	52-4
375.00	60-1	60-2	60-2	60-3	60-3	60-3	60-3	60-4	60-4	60-4
400.00	68-8	68-9	68-9	68-10	68-10	68-11	68-11	68-11	68-11	69-0
425.00	77-11	78-0	78-0	78-1	78-1	78-1	78-2	78-2	78-2	78-3
450.00	87-10	87-10	87-11	87-11	88-0	88-0	88-1	88-1	88-1	88-2
475.00	98-4	98-5	98-5	98-6	98-7	98-7	98-7	98-8	98-8	98-9
500.00	109-7	109-8	109-8	109-9	109-10	109-10	109-11	109-11	109-11	110-0
525.00	121-6	121-7	121-8	121-8	121-9	121-10	121-10	121-11	121-11	122-0
550.00	134-2	134-3	134-4	134-4	134-5	134-6	134-7	134-7	134-8	134-8
575.00	147-7	147-8	147-9	147-10	147-11	147-11	148-0	148-1	148-1	148-2
600.00	161-9	161-10	161-11	162-0	162-1	162-2	162-3	162-3	162-4	162-5
625.00	176-8	176-10	176-11	177-0	177-1	177-2	177-3	177-4	177-4	177-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.96

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.403	2.76	2000	2.76	2000*
0	0	0	0	0.785	2.54	387	2.5	393
30	0	0	0	0.785	2.8	352	2.77	355
40	0	0	0	0.785	2.87	343	2.85	346
50	0	0	0	0.785	2.94	335	2.92	337
60	0	0	0	0.785	3.01	327	2.99	330
70	0	0	0	0.785	3.08	320	3.05	322
80	0	0	0	0.785	3.12	316	3.12	316
90	0	0	0	0.785	3.16	311	3.16	311
100	0	0	0	0.785	3.2	307	3.2	307
110	0	0	0	0.785	3.25	304	3.25	304
120	0	0	0	0.785	3.29	300	3.29	300
130	0	0	0	0.785	3.33	296	3.33	296
167	0	0	0	0.785	3.47	284	3.47	284
212	0	0	0	0.785	3.64	271	3.64	271

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.403	11.14	2000	11.14	2000*
0	0	0	0	0.785	10.93	364	10.89	365
30	0	0	0	0.785	11.18	355	11.15	356
40	0	0	0	0.785	11.26	353	11.23	354
50	0	0	0	0.785	11.33	351	11.31	352
60	0	0	0	0.785	11.4	349	11.38	349
70	0	0	0	0.785	11.48	347	11.45	347
80	0	0	0	0.785	11.53	345	11.52	345
90	0	0	0	0.785	11.58	344	11.58	344
100	0	0	0	0.785	11.63	342	11.63	342
110	0	0	0	0.785	11.67	341	11.67	341
120	0	0	0	0.785	11.72	340	11.72	340
130	0	0	0	0.785	11.76	338	11.76	338
167	0	0	0	0.785	11.93	334	11.93	334
212	0	0	0	0.785	12.14	328	12.14	328

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.97

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.403	25.48	2000	25.48	2000*
0	0	0	0	0.785	25.26	360	25.23	360
30	0	0	0	0.785	25.52	356	25.49	356
40	0	0	0	0.785	25.59	355	25.57	355
50	0	0	0	0.785	25.67	354	25.64	354
60	0	0	0	0.785	25.74	353	25.72	354
70	0	0	0	0.785	25.82	352	25.79	353
80	0	0	0	0.785	25.88	351	25.87	352
90	0	0	0	0.785	25.92	351	25.92	351
100	0	0	0	0.785	25.97	350	25.97	350
110	0	0	0	0.785	26.02	350	26.02	350
120	0	0	0	0.785	26.07	349	26.07	349
130	0	0	0	0.785	26.11	348	26.11	348
167	0	0	0	0.785	26.29	346	26.29	346
212	0	0	0	0.785	26.5	344	26.5	344

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.403	46.41	2000	46.41	2000*
0	0	0	0	0.785	46.19	358	46.16	358
30	0	0	0	0.785	46.44	356	46.42	357
40	0	0	0	0.785	46.52	356	46.5	356
50	0	0	0	0.785	46.59	355	46.57	355
60	0	0	0	0.785	46.67	355	46.64	355
70	0	0	0	0.785	46.74	354	46.72	354
80	0	0	0	0.785	46.8	354	46.79	354
90	0	0	0	0.785	46.85	354	46.85	354
100	0	0	0	0.785	46.9	353	46.9	353
110	0	0	0	0.785	46.95	353	46.95	353
120	0	0	0	0.785	47	353	47	353
130	0	0	0	0.785	47.04	352	47.04	352
167	0	0	0	0.785	47.22	351	47.22	351
212	0	0	0	0.785	47.44	350	47.44	350

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.98

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.403	75.03	2000	75.03	2000*
0	0	0	0	0.785	74.81	357	74.78	358
30	0	0	0	0.785	75.07	356	75.04	357
40	0	0	0	0.785	75.14	356	75.12	356
50	0	0	0	0.785	75.22	356	75.19	356
60	0	0	0	0.785	75.29	356	75.27	356
70	0	0	0	0.785	75.36	355	75.34	355
80	0	0	0	0.785	75.42	355	75.41	355
90	0	0	0	0.785	75.47	355	75.47	355
100	0	0	0	0.785	75.52	355	75.52	355
110	0	0	0	0.785	75.57	354	75.57	354
120	0	0	0	0.785	75.62	354	75.62	354
130	0	0	0	0.785	75.67	354	75.67	354
167	0	0	0	0.785	75.84	353	75.84	353
212	0	0	0	0.785	76.06	353	76.06	353

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.99

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-6	1-7	1-7	1-8	1-8	1-9	1-9	1-9	1-10	1-10
100.00	2-8	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-2	3-3
125.00	4-2	4-4	4-5	4-7	4-8	4-9	4-11	4-11	5-0	5-1
150.00	6-1	6-3	6-5	6-7	6-9	6-11	7-0	7-2	7-3	7-4
175.00	8-3	8-6	8-9	8-11	9-2	9-5	9-7	9-9	9-10	10-0
200.00	10-9	11-1	11-5	11-9	12-0	12-3	12-6	12-8	12-10	13-0

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-6	1-7	1-7	1-8	1-8	1-9	1-9	1-9	1-10	1-10
100.00	2-9	2-10	2-10	2-11	3-0	3-1	3-1	3-2	3-2	3-3
125.00	4-3	4-4	4-6	4-7	4-8	4-10	4-11	4-11	5-0	5-1
150.00	6-1	6-4	6-6	6-8	6-9	6-11	7-0	7-2	7-3	7-4
175.00	8-4	8-7	8-10	9-0	9-3	9-5	9-7	9-9	9-10	10-0
200.00	10-11	11-3	11-6	11-10	12-1	12-4	12-6	12-8	12-10	13-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.100

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-9	2-9	2-10	2-10	2-10	2-10	2-10	2-11	2-11	2-11
125.00	4-4	4-4	4-5	4-5	4-5	4-6	4-6	4-6	4-6	4-7
150.00	6-3	6-3	6-4	6-4	6-5	6-5	6-6	6-6	6-6	6-7
175.00	8-6	8-6	8-7	8-8	8-8	8-9	8-10	8-10	8-11	8-11
200.00	11-1	11-2	11-3	11-4	11-5	11-5	11-6	11-7	11-8	11-8
225.00	14-0	14-2	14-3	14-4	14-5	14-6	14-7	14-8	14-9	14-9
250.00	17-4	17-6	17-7	17-8	17-10	17-11	18-1	18-2	18-3	18-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-9	2-9	2-10	2-10	2-10	2-10	2-10	2-11	2-11	2-11
125.00	4-4	4-4	4-5	4-5	4-5	4-6	4-6	4-6	4-6	4-7
150.00	6-3	6-3	6-4	6-4	6-5	6-5	6-6	6-6	6-6	6-7
175.00	8-6	8-7	8-7	8-8	8-9	8-9	8-10	8-10	8-11	8-11
200.00	11-1	11-2	11-3	11-4	11-5	11-6	11-6	11-7	11-8	11-8
225.00	14-1	14-2	14-3	14-4	14-5	14-6	14-7	14-8	14-9	14-9
250.00	17-5	17-6	17-8	17-9	17-10	18-0	18-1	18-2	18-3	18-3

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STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.101

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-4	6-4	6-4	6-4	6-5	6-5	6-5	6-5	6-5	6-5
175.00	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-9	8-9	8-10
200.00	11-3	11-3	11-4	11-4	11-4	11-5	11-5	11-6	11-6	11-6
225.00	14-3	14-3	14-4	14-4	14-5	14-5	14-6	14-6	14-7	14-7
250.00	17-7	17-8	17-8	17-9	17-10	17-10	17-11	17-11	18-0	18-0
275.00	21-4	21-5	21-5	21-6	21-7	21-8	21-8	21-9	21-9	21-10
300.00	25-5	25-6	25-7	25-8	25-9	25-10	25-10	25-11	26-0	26-0
325.00	29-10	30-0	30-1	30-2	30-3	30-4	30-5	30-6	30-6	30-7
350.00	34-8	34-10	34-11	35-0	35-2	35-3	35-4	35-5	35-6	35-6
375.00	39-11	40-1	40-2	40-3	40-5	40-6	40-8	40-9	40-10	40-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-4	6-4	6-4	6-4	6-5	6-5	6-5	6-5	6-5	6-5
175.00	8-7	8-8	8-8	8-8	8-8	8-9	8-9	8-9	8-9	8-10
200.00	11-3	11-3	11-4	11-4	11-5	11-5	11-5	11-6	11-6	11-6
225.00	14-3	14-4	14-4	14-5	14-5	14-6	14-6	14-6	14-7	14-7
250.00	17-7	17-8	17-9	17-9	17-10	17-11	17-11	17-11	18-0	18-0
275.00	21-4	21-5	21-6	21-6	21-7	21-8	21-9	21-9	21-9	21-10
300.00	25-5	25-6	25-7	25-8	25-9	25-10	25-11	25-11	26-0	26-0
325.00	29-11	30-0	30-1	30-2	30-3	30-4	30-5	30-6	30-6	30-7
350.00	34-9	34-10	34-11	35-1	35-2	35-3	35-4	35-5	35-6	35-6
375.00	39-11	40-1	40-2	40-4	40-5	40-7	40-8	40-9	40-10	40-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.102

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-5	11-5	11-6	11-6	11-6	11-6	11-7	11-7	11-7	11-7
225.00	14-6	14-6	14-6	14-7	14-7	14-7	14-8	14-8	14-8	14-8
250.00	17-11	17-11	18-0	18-0	18-0	18-1	18-1	18-1	18-1	18-2
275.00	21-8	21-9	21-9	21-10	21-10	21-11	21-11	21-11	22-0	22-0
300.00	25-10	25-11	25-11	26-0	26-0	26-1	26-1	26-2	26-2	26-2
325.00	30-5	30-6	30-6	30-7	30-7	30-8	30-8	30-9	30-9	30-10
350.00	35-4	35-5	35-5	35-6	35-7	35-7	35-8	35-9	35-9	35-10
375.00	40-8	40-9	40-9	40-10	40-11	41-0	41-0	41-1	41-2	41-2
400.00	46-4	46-5	46-6	46-7	46-8	46-9	46-9	46-10	46-11	46-11
425.00	52-5	52-6	52-7	52-8	52-9	52-10	52-11	53-0	53-1	53-1
450.00	58-11	59-0	59-1	59-3	59-4	59-5	59-6	59-7	59-8	59-8
475.00	65-10	65-11	66-0	66-2	66-3	66-4	66-6	66-7	66-7	66-8
500.00	73-1	73-3	73-4	73-6	73-7	73-9	73-10	73-11	74-0	74-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-5	11-6	11-6	11-6	11-6	11-6	11-7	11-7	11-7	11-7
225.00	14-6	14-6	14-7	14-7	14-7	14-7	14-8	14-8	14-8	14-8
250.00	17-11	17-11	18-0	18-0	18-0	18-1	18-1	18-1	18-1	18-2
275.00	21-9	21-9	21-9	21-10	21-10	21-11	21-11	21-11	22-0	22-0
300.00	25-11	25-11	26-0	26-0	26-1	26-1	26-1	26-2	26-2	26-2
325.00	30-5	30-6	30-6	30-7	30-8	30-8	30-9	30-9	30-9	30-10
350.00	35-4	35-5	35-6	35-6	35-7	35-8	35-8	35-9	35-9	35-10
375.00	40-8	40-9	40-10	40-10	40-11	41-0	41-1	41-1	41-2	41-2
400.00	46-4	46-5	46-6	46-7	46-8	46-9	46-10	46-10	46-11	46-11
425.00	52-5	52-7	52-8	52-9	52-10	52-11	52-11	53-0	53-1	53-1
450.00	58-11	59-1	59-2	59-3	59-4	59-5	59-6	59-7	59-8	59-8
475.00	65-10	66-0	66-1	66-2	66-3	66-5	66-6	66-7	66-7	66-8
500.00	73-2	73-3	73-5	73-6	73-8	73-9	73-10	73-11	74-0	74-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.103

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	18-4	18-4	18-5	18-5	18-5	18-5	18-5	18-6	18-6	18-6
275.00	22-3	22-3	22-3	22-4	22-4	22-4	22-4	22-5	22-5	22-5
300.00	26-6	26-6	26-7	26-7	26-7	26-8	26-8	26-8	26-8	26-9
325.00	31-2	31-2	31-3	31-3	31-3	31-4	31-4	31-4	31-5	31-5
350.00	36-2	36-3	36-3	36-4	36-4	36-5	36-5	36-5	36-6	36-6
375.00	41-8	41-8	41-9	41-9	41-10	41-10	41-11	41-11	41-11	42-0
400.00	47-6	47-6	47-7	47-8	47-8	47-9	47-9	47-10	47-10	47-10
425.00	53-9	53-10	53-10	53-11	53-11	54-0	54-1	54-1	54-2	54-2
450.00	60-5	60-5	60-6	60-7	60-8	60-8	60-9	60-10	60-10	60-11
475.00	67-6	67-6	67-7	67-8	67-9	67-10	67-10	67-11	68-0	68-0
500.00	74-11	75-0	75-1	75-2	75-3	75-4	75-5	75-6	75-6	75-7
525.00	82-11	83-0	83-1	83-2	83-3	83-4	83-5	83-5	83-6	83-7
550.00	91-3	91-4	91-5	91-6	91-7	91-8	91-10	91-10	91-11	92-0
575.00	100-0	100-2	100-3	100-4	100-5	100-7	100-8	100-9	100-10	100-10
600.00	109-3	109-5	109-6	109-8	109-9	109-10	110-0	110-1	110-1	110-2
625.00	119-0	119-1	119-3	119-4	119-6	119-7	119-9	119-10	119-11	120-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	18-4	18-4	18-5	18-5	18-5	18-5	18-5	18-6	18-6	18-6
275.00	22-3	22-3	22-3	22-4	22-4	22-4	22-4	22-5	22-5	22-5
300.00	26-6	26-6	26-7	26-7	26-7	26-8	26-8	26-8	26-8	26-9
325.00	31-2	31-2	31-3	31-3	31-4	31-4	31-4	31-4	31-5	31-5
350.00	36-3	36-3	36-3	36-4	36-4	36-5	36-5	36-5	36-6	36-6
375.00	41-8	41-8	41-9	41-9	41-10	41-10	41-11	41-11	41-11	42-0
400.00	47-6	47-7	47-7	47-8	47-8	47-9	47-9	47-10	47-10	47-10
425.00	53-9	53-10	53-10	53-11	54-0	54-0	54-1	54-1	54-2	54-2
450.00	60-5	60-6	60-6	60-7	60-8	60-9	60-9	60-10	60-10	60-11
475.00	67-6	67-7	67-8	67-8	67-9	67-10	67-11	67-11	68-0	68-0
500.00	75-0	75-1	75-2	75-3	75-3	75-4	75-5	75-6	75-6	75-7
525.00	82-11	83-0	83-1	83-2	83-3	83-4	83-5	83-5	83-6	83-7
550.00	91-3	91-4	91-6	91-7	91-8	91-9	91-10	91-10	91-11	92-0
575.00	100-1	100-2	100-3	100-5	100-6	100-7	100-8	100-9	100-10	100-10
600.00	109-4	109-5	109-7	109-8	109-9	109-11	110-0	110-1	110-1	110-2
625.00	119-0	119-2	119-3	119-5	119-6	119-8	119-9	119-10	119-11	120-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.104

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.403	2.21	2500	2.21	2500*
0	0	0	0	0.785	1.88	523	1.82	540
30	0	0	0	0.785	2.19	448	2.16	456
40	0	0	0	0.785	2.29	430	2.25	437
50	0	0	0	0.785	2.37	415	2.34	421
60	0	0	0	0.785	2.46	400	2.42	406
70	0	0	0	0.785	2.54	388	2.5	393
80	0	0	0	0.785	2.6	378	2.58	381
90	0	0	0	0.785	2.65	372	2.65	372
100	0	0	0	0.785	2.7	365	2.7	365
110	0	0	0	0.785	2.74	359	2.74	359
120	0	0	0	0.785	2.79	353	2.79	353
130	0	0	0	0.785	2.84	347	2.84	347
167	0	0	0	0.785	3	328	3	328
212	0	0	0	0.785	3.19	309	3.19	309

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.403	8.87	2500	8.87	2500*
0	0	0	0	0.785	8.55	462	8.5	465
30	0	0	0	0.785	8.86	446	8.83	448
40	0	0	0	0.785	8.96	442	8.92	444
50	0	0	0	0.785	9.05	437	9.01	439
60	0	0	0	0.785	9.14	433	9.1	435
70	0	0	0	0.785	9.23	429	9.19	431
80	0	0	0	0.785	9.31	425	9.28	427
90	0	0	0	0.785	9.37	423	9.37	423
100	0	0	0	0.785	9.43	420	9.43	420
110	0	0	0	0.785	9.48	418	9.48	418
120	0	0	0	0.785	9.54	415	9.54	415
130	0	0	0	0.785	9.6	413	9.6	413
167	0	0	0	0.785	9.8	404	9.8	404
212	0	0	0	0.785	10.04	395	10.04	395

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.105

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.403	20.17	2500	20.17	2500*
0	0	0	0	0.785	19.85	453	19.8	454
30	0	0	0	0.785	20.16	446	20.12	447
40	0	0	0	0.785	20.25	444	20.21	445
50	0	0	0	0.785	20.35	442	20.31	443
60	0	0	0	0.785	20.44	440	20.4	441
70	0	0	0	0.785	20.53	438	20.49	439
80	0	0	0	0.785	20.62	436	20.58	437
90	0	0	0	0.785	20.68	435	20.67	435
100	0	0	0	0.785	20.74	434	20.74	434
110	0	0	0	0.785	20.8	433	20.8	433
120	0	0	0	0.785	20.86	432	20.86	432
130	0	0	0	0.785	20.92	430	20.92	430
167	0	0	0	0.785	21.13	426	21.13	426
212	0	0	0	0.785	21.39	421	21.39	421

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.403	36.39	2500	36.39	2500*
0	0	0	0	0.785	36.07	449	36.02	450
30	0	0	0	0.785	36.38	446	36.34	446
40	0	0	0	0.785	36.47	445	36.43	445
50	0	0	0	0.785	36.57	444	36.53	444
60	0	0	0	0.785	36.66	443	36.62	443
70	0	0	0	0.785	36.75	442	36.71	442
80	0	0	0	0.785	36.84	441	36.8	441
90	0	0	0	0.785	36.9	440	36.9	440
100	0	0	0	0.785	36.96	439	36.96	439
110	0	0	0	0.785	37.02	439	37.02	439
120	0	0	0	0.785	37.08	438	37.08	438
130	0	0	0	0.785	37.14	437	37.14	437
167	0	0	0	0.785	37.36	435	37.36	435
212	0	0	0	0.785	37.63	432	37.63	432

* Design Condition

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SHEET 106 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.106

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.403	58.01	2500	58.01	2500*
0	0	0	0	0.785	57.69	448	57.64	448
30	0	0	0	0.785	58	446	57.96	446
40	0	0	0	0.785	58.09	445	58.05	445
50	0	0	0	0.785	58.18	445	58.14	445
60	0	0	0	0.785	58.28	444	58.24	444
70	0	0	0	0.785	58.37	443	58.33	444
80	0	0	0	0.785	58.46	443	58.42	443
90	0	0	0	0.785	58.52	442	58.51	442
100	0	0	0	0.785	58.58	442	58.58	442
110	0	0	0	0.785	58.64	441	58.64	441
120	0	0	0	0.785	58.7	441	58.7	441
130	0	0	0	0.785	58.76	441	58.76	441
167	0	0	0	0.785	58.99	439	58.99	439
212	0	0	0	0.785	59.26	437	59.26	437

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7
100.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9
125.00	3-2	3-4	3-6	3-8	3-9	3-11	4-0	4-2	4-3	4-3
150.00	4-7	4-10	5-1	5-3	5-5	5-8	5-10	6-0	6-1	6-2
175.00	6-3	6-7	6-11	7-2	7-5	7-8	7-11	8-2	8-3	8-5
200.00	8-3	8-8	9-0	9-4	9-8	10-0	10-4	10-7	10-10	11-0

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-3	1-3	1-4	1-5	1-5	1-6	1-6	1-6	1-7
100.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9
125.00	3-3	3-5	3-7	3-8	3-10	4-0	4-1	4-2	4-3	4-3
150.00	4-9	4-11	5-2	5-4	5-6	5-9	5-10	6-0	6-1	6-2
175.00	6-5	6-9	7-0	7-3	7-6	7-9	8-0	8-2	8-3	8-5
200.00	8-5	8-10	9-2	9-6	9-10	10-2	10-5	10-7	10-10	11-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-2	2-2	2-3	2-3	2-3	2-4	2-4	2-4	2-4	2-4
125.00	3-5	3-5	3-6	3-6	3-7	3-7	3-7	3-8	3-8	3-8
150.00	4-11	5-0	5-0	5-1	5-1	5-2	5-3	5-3	5-4	5-4
175.00	6-8	6-9	6-10	6-11	7-0	7-0	7-1	7-2	7-3	7-3
200.00	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6
225.00	11-1	11-2	11-4	11-5	11-6	11-8	11-9	11-10	11-11	12-0
250.00	13-8	13-10	13-11	14-1	14-3	14-5	14-6	14-8	14-9	14-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-2	2-3	2-3	2-3	2-3	2-4	2-4	2-4	2-4	2-4
125.00	3-5	3-5	3-6	3-6	3-7	3-7	3-8	3-8	3-8	3-8
150.00	4-11	5-0	5-0	5-1	5-2	5-2	5-3	5-3	5-4	5-4
175.00	6-9	6-9	6-10	6-11	7-0	7-1	7-2	7-2	7-3	7-3
200.00	8-9	8-10	8-11	9-1	9-2	9-3	9-4	9-4	9-5	9-6
225.00	11-1	11-3	11-4	11-6	11-7	11-8	11-10	11-10	11-11	12-0
250.00	13-9	13-10	14-0	14-2	14-4	14-5	14-7	14-8	14-9	14-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.109

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-0	5-0	5-0	5-1	5-1	5-1	5-1	5-2	5-2	5-2
175.00	6-9	6-10	6-10	6-11	6-11	6-11	7-0	7-0	7-0	7-1
200.00	8-10	8-11	8-11	9-0	9-0	9-1	9-1	9-2	9-2	9-3
225.00	11-3	11-3	11-4	11-5	11-5	11-6	11-7	11-7	11-8	11-8
250.00	13-10	13-11	14-0	14-1	14-2	14-2	14-3	14-4	14-4	14-5
275.00	16-10	16-11	17-0	17-1	17-1	17-2	17-3	17-4	17-5	17-5
300.00	20-0	20-1	20-3	20-4	20-5	20-6	20-7	20-8	20-9	20-10
325.00	23-6	23-8	23-9	23-10	24-0	24-1	24-2	24-3	24-4	24-5
350.00	27-4	27-5	27-7	27-8	27-10	27-11	28-1	28-2	28-4	28-4
375.00	31-5	31-7	31-8	31-10	32-0	32-2	32-3	32-5	32-6	32-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-0	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-2	5-2
175.00	6-10	6-10	6-10	6-11	6-11	6-11	7-0	7-0	7-0	7-1
200.00	8-11	8-11	9-0	9-0	9-1	9-1	9-2	9-2	9-2	9-3
225.00	11-3	11-4	11-4	11-5	11-6	11-6	11-7	11-7	11-8	11-8
250.00	13-11	14-0	14-0	14-1	14-2	14-3	14-4	14-4	14-4	14-5
275.00	16-10	16-11	17-0	17-1	17-2	17-3	17-4	17-4	17-5	17-6
300.00	20-1	20-2	20-3	20-4	20-5	20-6	20-7	20-8	20-9	20-10
325.00	23-7	23-8	23-10	23-11	24-0	24-1	24-3	24-4	24-4	24-5
350.00	27-4	27-6	27-8	27-9	27-11	28-0	28-2	28-3	28-4	28-4
375.00	31-5	31-7	31-9	31-11	32-1	32-2	32-4	32-5	32-6	32-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.110

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-0	9-0	9-0	9-1	9-1	9-1	9-2	9-2	9-2	9-2
225.00	11-5	11-5	11-5	11-6	11-6	11-6	11-7	11-7	11-7	11-8
250.00	14-1	14-1	14-2	14-2	14-3	14-3	14-3	14-4	14-4	14-4
275.00	17-0	17-1	17-1	17-2	17-3	17-3	17-4	17-4	17-4	17-5
300.00	20-3	20-4	20-5	20-5	20-6	20-7	20-7	20-8	20-8	20-9
325.00	23-10	23-11	24-0	24-0	24-1	24-2	24-2	24-3	24-4	24-4
350.00	27-8	27-9	27-10	27-11	28-0	28-0	28-1	28-2	28-3	28-3
375.00	31-10	31-11	32-0	32-1	32-2	32-3	32-4	32-5	32-5	32-6
400.00	36-3	36-4	36-5	36-6	36-7	36-9	36-10	36-11	37-0	37-0
425.00	41-0	41-1	41-2	41-4	41-5	41-6	41-7	41-9	41-9	41-10
450.00	46-0	46-2	46-3	46-4	46-6	46-7	46-9	46-10	46-11	47-0
475.00	51-4	51-6	51-7	51-9	51-10	52-0	52-2	52-3	52-4	52-5
500.00	56-11	57-2	57-3	57-5	57-7	57-9	57-10	58-0	58-1	58-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-0	9-0	9-1	9-1	9-1	9-1	9-2	9-2	9-2	9-2
225.00	11-5	11-5	11-5	11-6	11-6	11-6	11-7	11-7	11-7	11-8
250.00	14-1	14-1	14-2	14-2	14-3	14-3	14-4	14-4	14-4	14-4
275.00	17-1	17-1	17-2	17-2	17-3	17-3	17-4	17-4	17-4	17-5
300.00	20-4	20-4	20-5	20-6	20-6	20-7	20-7	20-8	20-8	20-9
325.00	23-10	23-11	24-0	24-1	24-1	24-2	24-3	24-3	24-4	24-4
350.00	27-9	27-9	27-10	27-11	28-0	28-1	28-2	28-2	28-3	28-3
375.00	31-10	31-11	32-0	32-1	32-2	32-3	32-4	32-5	32-5	32-6
400.00	36-3	36-5	36-6	36-7	36-8	36-9	36-10	36-11	37-0	37-0
425.00	41-0	41-2	41-3	41-4	41-5	41-7	41-8	41-9	41-9	41-10
450.00	46-1	46-2	46-4	46-5	46-6	46-8	46-9	46-10	46-11	47-0
475.00	51-5	51-6	51-8	51-10	51-11	52-1	52-2	52-3	52-4	52-5
500.00	57-0	57-2	57-4	57-6	57-8	57-9	57-11	58-0	58-1	58-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.111

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	14-3	14-4	14-4	14-4	14-4	14-5	14-5	14-5	14-5	14-6
275.00	17-4	17-4	17-4	17-5	17-5	17-5	17-5	17-6	17-6	17-6
300.00	20-7	20-8	20-8	20-8	20-9	20-9	20-10	20-10	20-10	20-10
325.00	24-2	24-3	24-3	24-4	24-4	24-5	24-5	24-6	24-6	24-6
350.00	28-1	28-2	28-2	28-3	28-3	28-4	28-4	28-5	28-5	28-6
375.00	32-4	32-4	32-5	32-6	32-6	32-7	32-7	32-8	32-8	32-9
400.00	36-10	36-10	36-11	37-0	37-0	37-1	37-2	37-3	37-3	37-4
425.00	41-7	41-8	41-9	41-10	41-10	41-11	42-0	42-1	42-1	42-2
450.00	46-8	46-10	46-10	46-11	47-0	47-1	47-2	47-3	47-4	47-4
475.00	52-1	52-3	52-4	52-5	52-6	52-7	52-8	52-9	52-9	52-10
500.00	57-10	58-0	58-1	58-2	58-3	58-4	58-5	58-6	58-7	58-8
525.00	63-11	64-0	64-1	64-3	64-4	64-5	64-6	64-8	64-8	64-9
550.00	70-3	70-5	70-6	70-7	70-9	70-10	70-11	71-1	71-2	71-3
575.00	76-11	77-1	77-2	77-4	77-5	77-7	77-8	77-10	77-11	78-0
600.00	83-11	84-1	84-3	84-4	84-6	84-8	84-9	84-11	85-0	85-1
625.00	91-3	91-5	91-7	91-9	91-11	92-0	92-2	92-4	92-5	92-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	14-3	14-4	14-4	14-4	14-5	14-5	14-5	14-5	14-5	14-6
275.00	17-4	17-4	17-4	17-5	17-5	17-5	17-6	17-6	17-6	17-6
300.00	20-7	20-8	20-8	20-9	20-9	20-9	20-10	20-10	20-10	20-10
325.00	24-3	24-3	24-4	24-4	24-5	24-5	24-5	24-6	24-6	24-6
350.00	28-1	28-2	28-3	28-3	28-4	28-4	28-5	28-5	28-5	28-6
375.00	32-4	32-5	32-5	32-6	32-6	32-7	32-8	32-8	32-8	32-9
400.00	36-10	36-11	36-11	37-0	37-1	37-1	37-2	37-3	37-3	37-4
425.00	41-8	41-8	41-9	41-10	41-11	42-0	42-0	42-1	42-1	42-2
450.00	46-9	46-10	46-11	47-0	47-1	47-1	47-2	47-3	47-4	47-4
475.00	52-2	52-3	52-4	52-5	52-6	52-7	52-8	52-9	52-9	52-10
500.00	57-11	58-0	58-1	58-2	58-3	58-4	58-6	58-6	58-7	58-8
525.00	63-11	64-1	64-2	64-3	64-4	64-6	64-7	64-8	64-8	64-9
550.00	70-4	70-5	70-7	70-8	70-9	70-11	71-0	71-1	71-2	71-3
575.00	77-0	77-2	77-3	77-5	77-6	77-8	77-9	77-10	77-11	78-0
600.00	84-0	84-2	84-3	84-5	84-7	84-8	84-10	84-11	85-0	85-1
625.00	91-4	91-6	91-8	91-10	91-11	92-1	92-3	92-4	92-5	92-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.112

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.403	1.84	3000	1.84	3000*
0	0	0	0	0.785	1.38	710	1.3	758
30	0	0	0	0.785	1.76	560	1.7	579
40	0	0	0	0.785	1.86	527	1.81	543
50	0	0	0	0.785	1.97	499	1.91	514
60	0	0	0	0.785	2.07	475	2.01	488
70	0	0	0	0.785	2.16	455	2.11	466
80	0	0	0	0.785	2.24	439	2.2	446
90	0	0	0	0.785	2.3	428	2.29	429
100	0	0	0	0.785	2.35	418	2.35	419
110	0	0	0	0.785	2.4	409	2.4	409
120	0	0	0	0.785	2.46	401	2.45	401
130	0	0	0	0.785	2.51	392	2.51	393
167	0	0	0	0.785	2.69	366	2.69	366
212	0	0	0	0.785	2.9	340	2.9	340

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.403	7.38	3000	7.38	3000*
0	0	0	0	0.785	6.93	569	6.85	576
30	0	0	0	0.785	7.29	541	7.24	545
40	0	0	0	0.785	7.41	533	7.35	537
50	0	0	0	0.785	7.52	525	7.46	529
60	0	0	0	0.785	7.63	518	7.57	522
70	0	0	0	0.785	7.73	511	7.67	515
80	0	0	0	0.785	7.84	504	7.78	508
90	0	0	0	0.785	7.91	499	7.88	501
100	0	0	0	0.785	7.98	495	7.98	495
110	0	0	0	0.785	8.05	491	8.05	491
120	0	0	0	0.785	8.11	487	8.11	487
130	0	0	0	0.785	8.18	483	8.18	483
167	0	0	0	0.785	8.41	470	8.41	470
212	0	0	0	0.785	8.69	455	8.69	455

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 113 OF 360

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.113

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.403	16.71	3000	16.71	3000*
0	0	0	0	0.785	16.27	549	16.19	552
30	0	0	0	0.785	16.63	538	16.57	539
40	0	0	0	0.785	16.74	534	16.69	536
50	0	0	0	0.785	16.86	531	16.8	532
60	0	0	0	0.785	16.97	527	16.91	529
70	0	0	0	0.785	17.08	524	17.02	526
80	0	0	0	0.785	17.19	521	17.13	522
90	0	0	0	0.785	17.27	518	17.23	519
100	0	0	0	0.785	17.34	516	17.34	516
110	0	0	0	0.785	17.41	514	17.41	514
120	0	0	0	0.785	17.48	512	17.48	512
130	0	0	0	0.785	17.55	510	17.55	510
167	0	0	0	0.785	17.8	503	17.8	503
212	0	0	0	0.785	18.11	495	18.11	495

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.403	30.01	3000	30.01	3000*
0	0	0	0	0.785	29.57	543	29.49	544
30	0	0	0	0.785	29.93	536	29.87	537
40	0	0	0	0.785	30.04	534	29.98	535
50	0	0	0	0.785	30.15	533	30.09	534
60	0	0	0	0.785	30.27	531	30.21	532
70	0	0	0	0.785	30.38	529	30.32	530
80	0	0	0	0.785	30.49	527	30.43	528
90	0	0	0	0.785	30.58	525	30.54	526
100	0	0	0	0.785	30.65	524	30.65	524
110	0	0	0	0.785	30.72	523	30.72	523
120	0	0	0	0.785	30.79	522	30.79	522
130	0	0	0	0.785	30.86	521	30.86	521
167	0	0	0	0.785	31.12	517	31.12	517
212	0	0	0	0.785	31.44	512	31.44	512

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.114

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.403	47.52	3000	47.52	3000*
0	0	0	0	0.785	47.08	540	47	540
30	0	0	0	0.785	47.44	536	47.38	536
40	0	0	0	0.785	47.55	535	47.49	535
50	0	0	0	0.785	47.66	533	47.6	534
60	0	0	0	0.785	47.78	532	47.71	533
70	0	0	0	0.785	47.89	531	47.83	532
80	0	0	0	0.785	48	530	47.94	531
90	0	0	0	0.785	48.09	529	48.05	529
100	0	0	0	0.785	48.16	528	48.16	528
110	0	0	0	0.785	48.23	528	48.23	528
120	0	0	0	0.785	48.31	527	48.3	527
130	0	0	0	0.785	48.38	526	48.38	526
167	0	0	0	0.785	48.64	523	48.64	523
212	0	0	0	0.785	48.96	520	48.96	520

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	0-11	1-0	1-1	1-2	1-2	1-3	1-3	1-4	1-4
100.00	1-7	1-8	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
125.00	2-6	2-8	2-10	3-0	3-2	3-4	3-5	3-7	3-8	3-9
150.00	3-7	3-10	4-1	4-4	4-6	4-9	5-0	5-2	5-3	5-5
175.00	4-10	5-2	5-7	5-10	6-2	6-6	6-9	7-0	7-2	7-4
200.00	6-4	6-10	7-3	7-8	8-1	8-5	8-10	9-2	9-5	9-8

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-3	1-4	1-4
100.00	1-8	1-9	1-10	2-0	2-1	2-2	2-3	2-4	2-4	2-5
125.00	2-7	2-9	2-11	3-1	3-3	3-5	3-6	3-7	3-8	3-9
150.00	3-8	3-11	4-2	4-5	4-8	4-10	5-1	5-2	5-4	5-5
175.00	5-0	5-5	5-9	6-0	6-4	6-8	6-10	7-1	7-2	7-4
200.00	6-7	7-0	7-6	7-11	8-3	8-8	9-0	9-2	9-5	9-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.116

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-10	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0
125.00	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2
150.00	4-0	4-1	4-2	4-2	4-3	4-4	4-4	4-5	4-6	4-6
175.00	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2
200.00	7-1	7-3	7-4	7-5	7-7	7-8	7-9	7-11	8-0	8-1
225.00	9-0	9-2	9-4	9-5	9-7	9-9	9-10	10-0	10-1	10-2
250.00	11-2	11-4	11-6	11-8	11-10	12-0	12-2	12-4	12-6	12-7

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-10	1-10	1-11	1-11	1-11	1-11	2-0	2-0	2-0
125.00	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-1	3-2
150.00	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-5	4-6	4-6
175.00	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-1	6-2
200.00	7-2	7-4	7-5	7-6	7-8	7-9	7-10	7-11	8-0	8-1
225.00	9-1	9-3	9-5	9-6	9-8	9-10	9-11	10-0	10-1	10-2
250.00	11-3	11-5	11-7	11-9	11-11	12-1	12-3	12-5	12-6	12-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.117

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-1	4-2	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-4
175.00	5-7	5-7	5-8	5-8	5-9	5-9	5-10	5-10	5-11	5-11
200.00	7-4	7-4	7-5	7-5	7-6	7-7	7-7	7-8	7-8	7-9
225.00	9-3	9-4	9-4	9-5	9-6	9-7	9-7	9-8	9-9	9-9
250.00	11-5	11-6	11-7	11-8	11-9	11-10	11-11	11-11	12-0	12-1
275.00	13-10	13-11	14-0	14-1	14-2	14-3	14-5	14-6	14-7	14-7
300.00	16-5	16-7	16-8	16-10	16-11	17-0	17-2	17-3	17-4	17-5
325.00	19-4	19-6	19-7	19-9	19-10	20-0	20-1	20-3	20-4	20-5
350.00	22-5	22-7	22-9	22-11	23-1	23-2	23-4	23-6	23-8	23-9
375.00	25-9	25-11	26-2	26-4	26-6	26-8	26-10	27-0	27-2	27-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-1	4-2	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-4
175.00	5-7	5-8	5-8	5-9	5-9	5-10	5-10	5-10	5-11	5-11
200.00	7-4	7-5	7-5	7-6	7-6	7-7	7-7	7-8	7-8	7-9
225.00	9-3	9-4	9-5	9-6	9-6	9-7	9-8	9-8	9-9	9-9
250.00	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-0	12-1
275.00	13-10	14-0	14-1	14-2	14-3	14-4	14-5	14-6	14-7	14-7
300.00	16-6	16-8	16-9	16-10	17-0	17-1	17-2	17-3	17-4	17-5
325.00	19-5	19-6	19-8	19-10	19-11	20-1	20-2	20-3	20-4	20-5
350.00	22-6	22-8	22-10	23-0	23-2	23-3	23-5	23-7	23-8	23-9
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.118

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-5	7-5	7-5	7-6	7-6	7-6	7-7	7-7	7-7	7-8
225.00	9-4	9-5	9-5	9-6	9-6	9-7	9-7	9-7	9-8	9-8
250.00	11-7	11-7	11-8	11-8	11-9	11-9	11-10	11-10	11-11	11-11
275.00	14-0	14-1	14-1	14-2	14-3	14-3	14-4	14-4	14-5	14-6
300.00	16-8	16-9	16-10	16-10	16-11	17-0	17-1	17-1	17-2	17-3
325.00	19-7	19-8	19-9	19-10	19-11	20-0	20-0	20-1	20-2	20-3
350.00	22-9	22-10	22-11	23-0	23-1	23-2	23-3	23-4	23-5	23-6
375.00	26-2	26-3	26-4	26-5	26-6	26-7	26-9	26-10	26-11	27-0
400.00	29-9	29-10	30-0	30-1	30-2	30-4	30-5	30-6	30-8	30-9
425.00	33-7	33-9	33-11	34-0	34-2	34-3	34-5	34-6	34-8	34-9
450.00	37-9	37-11	38-0	38-2	38-4	38-5	38-7	38-9	38-10	39-0
475.00	42-1	42-3	42-5	42-7	42-9	42-11	43-0	43-2	43-4	43-5
500.00	46-8	46-10	47-1	47-3	47-5	47-7	47-9	47-11	48-1	48-2

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-5	7-5	7-6	7-6	7-6	7-7	7-7	7-7	7-7	7-8
225.00	9-5	9-5	9-5	9-6	9-6	9-7	9-7	9-7	9-8	9-8
250.00	11-7	11-8	11-8	11-9	11-9	11-10	11-10	11-11	11-11	11-11
275.00	14-0	14-1	14-2	14-2	14-3	14-4	14-4	14-5	14-5	14-6
300.00	16-9	16-9	16-10	16-11	17-0	17-0	17-1	17-2	17-2	17-3
325.00	19-8	19-9	19-9	19-10	19-11	20-0	20-1	20-2	20-2	20-3
350.00	22-9	22-11	23-0	23-1	23-2	23-3	23-4	23-4	23-5	23-6
375.00	26-2	26-3	26-5	26-6	26-7	26-8	26-9	26-10	26-11	27-0
400.00	29-10	29-11	30-1	30-2	30-3	30-5	30-6	30-7	30-8	30-9
425.00	33-8	33-10	33-11	34-1	34-2	34-4	34-5	34-7	34-8	34-9
450.00	37-10	37-11	38-1	38-3	38-5	38-6	38-8	38-9	38-10	39-0
475.00	42-2	42-4	42-6	42-8	42-10	43-0	43-2	43-3	43-4	43-5
500.00	46-9	47-0	47-2	47-4	47-6	47-8	47-10	48-0	48-1	48-2

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SHEET 119 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.119

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-9	11-9	11-9	11-10	11-10	11-10	11-11	11-11	11-11	11-11
275.00	14-2	14-3	14-3	14-3	14-4	14-4	14-5	14-5	14-5	14-6
300.00	16-11	16-11	17-0	17-0	17-1	17-1	17-2	17-2	17-2	17-3
325.00	19-10	19-11	19-11	20-0	20-0	20-1	20-1	20-2	20-2	20-3
350.00	23-0	23-1	23-2	23-2	23-3	23-4	23-4	23-5	23-5	23-6
375.00	26-5	26-6	26-7	26-8	26-8	26-9	26-10	26-11	26-11	27-0
400.00	30-1	30-2	30-3	30-4	30-5	30-6	30-7	30-7	30-8	30-9
425.00	34-0	34-1	34-2	34-3	34-4	34-5	34-6	34-7	34-8	34-9
450.00	38-2	38-4	38-5	38-6	38-7	38-8	38-9	38-10	38-11	39-0
475.00	42-7	42-9	42-10	42-11	43-0	43-1	43-3	43-4	43-5	43-6
500.00	47-3	47-5	47-6	47-7	47-9	47-10	47-11	48-1	48-2	48-3
525.00	52-2	52-4	52-5	52-7	52-8	52-10	52-11	53-0	53-2	53-3
550.00	57-4	57-6	57-7	57-9	57-11	58-0	58-2	58-3	58-5	58-6
575.00	62-9	62-11	63-1	63-2	63-4	63-6	63-8	63-9	63-11	64-0
600.00	68-5	68-7	68-9	68-11	69-1	69-3	69-5	69-7	69-9	69-10
625.00	74-4	74-6	74-8	74-10	75-1	75-3	75-5	75-7	75-9	75-11

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-9	11-9	11-9	11-10	11-10	11-10	11-11	11-11	11-11	11-11
275.00	14-2	14-3	14-3	14-4	14-4	14-4	14-5	14-5	14-5	14-6
300.00	16-11	16-11	17-0	17-0	17-1	17-1	17-2	17-2	17-2	17-3
325.00	19-10	19-11	19-11	20-0	20-1	20-1	20-2	20-2	20-2	20-3
350.00	23-1	23-1	23-2	23-3	23-3	23-4	23-5	23-5	23-5	23-6
375.00	26-6	26-7	26-7	26-8	26-9	26-10	26-10	26-11	26-11	27-0
400.00	30-2	30-3	30-4	30-5	30-5	30-6	30-7	30-8	30-8	30-9
425.00	34-1	34-2	34-3	34-4	34-5	34-6	34-7	34-8	34-8	34-9
450.00	38-3	38-4	38-5	38-6	38-7	38-8	38-9	38-10	38-11	39-0
475.00	42-8	42-9	42-10	43-0	43-1	43-2	43-3	43-4	43-5	43-6
500.00	47-4	47-5	47-7	47-8	47-9	47-11	48-0	48-1	48-2	48-3
525.00	52-3	52-4	52-6	52-7	52-9	52-10	53-0	53-1	53-2	53-3
550.00	57-5	57-7	57-8	57-10	57-11	58-1	58-3	58-4	58-5	58-6
575.00	62-10	63-0	63-2	63-3	63-5	63-7	63-9	63-10	63-11	64-0
600.00	68-6	68-8	68-10	69-0	69-2	69-4	69-6	69-7	69-9	69-10
625.00	74-5	74-7	74-10	75-0	75-2	75-4	75-6	75-8	75-9	75-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.120

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.179	1.49	987	1.47	1000*
20	0	0	0	0.785	0.99	987	0.98	1007
30	0	0	0	0.785	1.15	855	1.13	872
40	0	0	0	0.785	1.29	759	1.27	774
50	0	0	0	0.785	1.43	687	1.4	700
60	0	0	0	0.785	1.56	631	1.53	642
70	0	0	0	0.785	1.68	586	1.65	595
80	0	0	0	0.785	1.79	549	1.76	557
90	0	0	0	0.785	1.9	518	1.87	525
100	0	0	0	0.785	1.97	500	1.97	500
110	0	0	0	0.785	2.03	485	2.03	485
120	0	0	0	0.785	2.09	471	2.09	471
130	0	0	0	0.785	2.14	458	2.14	459
167	0	0	0	0.785	2.35	419	2.35	419
212	0	0	0	0.785	2.58	381	2.58	381

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.179	5.94	996	5.91	1000*
20	0	0	0	0.785	5.44	723	5.41	727
30	0	0	0	0.785	5.59	705	5.56	708
40	0	0	0	0.785	5.73	687	5.7	691
50	0	0	0	0.785	5.87	671	5.84	675
60	0	0	0	0.785	6.01	656	5.97	659
70	0	0	0	0.785	6.14	641	6.11	645
80	0	0	0	0.785	6.27	628	6.24	632
90	0	0	0	0.785	6.4	616	6.37	619
100	0	0	0	0.785	6.53	604	6.49	607
110	0	0	0	0.785	6.61	597	6.61	597
120	0	0	0	0.785	6.68	590	6.68	590
130	0	0	0	0.785	6.76	583	6.76	583
167	0	0	0	0.785	7.04	560	7.04	560
212	0	0	0	0.785	7.36	536	7.36	536

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 121 OF 360

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.121

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.179	13.39	998	13.37	1000*
20	0	0	0	0.785	12.9	690	12.87	691
30	0	0	0	0.785	13.04	682	13.01	684
40	0	0	0	0.785	13.18	675	13.15	677
50	0	0	0	0.785	13.32	668	13.29	670
60	0	0	0	0.785	13.46	661	13.43	663
70	0	0	0	0.785	13.6	655	13.56	656
80	0	0	0	0.785	13.74	648	13.7	650
90	0	0	0	0.785	13.87	642	13.83	644
100	0	0	0	0.785	14	636	13.97	638
110	0	0	0	0.785	14.1	632	14.1	632
120	0	0	0	0.785	14.19	628	14.19	628
130	0	0	0	0.785	14.27	625	14.27	625
167	0	0	0	0.785	14.58	612	14.58	612
212	0	0	0	0.785	14.94	597	14.94	597

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.179	23.94	999	23.91	1000*
20	0	0	0	0.785	23.45	679	23.42	680
30	0	0	0	0.785	23.59	675	23.56	676
40	0	0	0	0.785	23.73	671	23.7	672
50	0	0	0	0.785	23.87	667	23.84	668
60	0	0	0	0.785	24.01	663	23.97	664
70	0	0	0	0.785	24.15	660	24.11	661
80	0	0	0	0.785	24.29	656	24.25	657
90	0	0	0	0.785	24.42	652	24.38	653
100	0	0	0	0.785	24.56	649	24.52	650
110	0	0	0	0.785	24.66	646	24.65	646
120	0	0	0	0.785	24.75	644	24.75	644
130	0	0	0	0.785	24.84	642	24.84	642
167	0	0	0	0.785	25.16	634	25.16	634
212	0	0	0	0.785	25.54	625	25.54	625

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.122

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.179	37.7	999	37.67	1000*
20	0	0	0	0.785	37.21	674	37.18	674
30	0	0	0	0.785	37.35	671	37.32	672
40	0	0	0	0.785	37.49	669	37.46	670
50	0	0	0	0.785	37.63	667	37.6	667
60	0	0	0	0.785	37.77	664	37.74	665
70	0	0	0	0.785	37.91	662	37.87	663
80	0	0	0	0.785	38.05	660	38.01	660
90	0	0	0	0.785	38.19	657	38.15	658
100	0	0	0	0.785	38.33	655	38.28	656
110	0	0	0	0.785	38.43	653	38.42	654
120	0	0	0	0.785	38.52	652	38.52	652
130	0	0	0	0.785	38.61	651	38.61	651
167	0	0	0	0.785	38.94	645	38.94	645
212	0	0	0	0.785	39.33	639	39.33	639

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.123

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-1	1-2
100.00	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-10	2-0	2-0
125.00	1-6	1-9	2-0	2-2	2-5	2-7	2-9	2-11	3-1	3-2
150.00	2-2	2-6	2-10	3-2	3-5	3-9	4-0	4-3	4-5	4-7
175.00	3-0	3-5	3-11	4-4	4-8	5-1	5-5	5-9	6-0	6-3
200.00	3-11	4-6	5-1	5-7	6-2	6-7	7-1	7-6	7-11	8-1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2
100.00	1-0	1-2	1-4	1-5	1-7	1-8	1-9	1-11	2-0	2-0
125.00	1-7	1-10	2-0	2-3	2-5	2-7	2-10	3-0	3-1	3-2
150.00	2-3	2-7	2-11	3-3	3-6	3-9	4-0	4-3	4-5	4-7
175.00	3-1	3-6	4-0	4-5	4-9	5-2	5-6	5-10	6-0	6-3
200.00	4-0	4-7	5-2	5-9	6-3	6-9	7-2	7-7	7-11	8-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.124

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-7	1-8
125.00	2-1	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-6	2-7
150.00	3-1	3-2	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
175.00	4-2	4-3	4-4	4-6	4-7	4-8	4-9	4-10	5-0	5-1
200.00	5-5	5-7	5-8	5-10	6-0	6-1	6-3	6-4	6-6	6-7
225.00	6-10	7-0	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-4
250.00	8-6	8-8	8-11	9-2	9-4	9-7	9-9	9-11	10-2	10-4

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-8	1-8
125.00	2-1	2-2	2-3	2-4	2-4	2-5	2-5	2-6	2-7	2-7
150.00	3-1	3-2	3-3	3-4	3-5	3-5	3-6	3-7	3-8	3-9
175.00	4-2	4-3	4-5	4-6	4-7	4-8	4-10	4-11	5-0	5-1
200.00	5-5	5-7	5-9	5-10	6-0	6-2	6-3	6-5	6-6	6-7
225.00	6-11	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-4
250.00	8-6	8-9	9-0	9-2	9-5	9-7	9-10	10-0	10-2	10-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.125

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-3	3-3	3-3	3-4	3-4	3-5	3-5	3-5	3-6	3-6
175.00	4-4	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9	4-9
200.00	5-9	5-9	5-10	5-11	6-0	6-0	6-1	6-2	6-2	6-3
225.00	7-3	7-4	7-5	7-6	7-7	7-7	7-8	7-9	7-10	7-11
250.00	8-11	9-0	9-2	9-3	9-4	9-5	9-6	9-7	9-8	9-9
275.00	10-10	10-11	11-1	11-2	11-3	11-5	11-6	11-7	11-9	11-10
300.00	12-10	13-0	13-2	13-3	13-5	13-7	13-8	13-10	14-0	14-1
325.00	15-1	15-3	15-5	15-7	15-9	15-11	16-1	16-3	16-5	16-7
350.00	17-6	17-9	17-11	18-1	18-4	18-6	18-8	18-10	19-0	19-2
375.00	20-2	20-4	20-7	20-10	21-0	21-3	21-5	21-8	21-10	22-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-3	3-3	3-3	3-4	3-4	3-5	3-5	3-6	3-6	3-6
175.00	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-9	4-9	4-9
200.00	5-9	5-9	5-10	5-11	6-0	6-0	6-1	6-2	6-3	6-3
225.00	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-10	7-11
250.00	8-11	9-1	9-2	9-3	9-4	9-5	9-6	9-7	9-9	9-9
275.00	10-10	10-11	11-1	11-2	11-4	11-5	11-6	11-8	11-9	11-10
300.00	12-11	13-1	13-2	13-4	13-6	13-7	13-9	13-10	14-0	14-1
325.00	15-2	15-4	15-6	15-8	15-10	16-0	16-2	16-3	16-5	16-7
350.00	17-7	17-9	18-0	18-2	18-4	18-6	18-9	18-11	19-1	19-3
375.00	20-2	20-5	20-8	20-10	21-1	21-3	21-6	21-8	21-11	22-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-10	5-10	5-11	5-11	6-0	6-0	6-0	6-1	6-1	6-2
225.00	7-5	7-5	7-6	7-6	7-7	7-7	7-8	7-8	7-9	7-9
250.00	9-1	9-2	9-3	9-3	9-4	9-5	9-5	9-6	9-7	9-7
275.00	11-0	11-1	11-2	11-3	11-4	11-4	11-5	11-6	11-7	11-7
300.00	13-2	13-3	13-4	13-5	13-5	13-6	13-7	13-8	13-9	13-10
325.00	15-5	15-6	15-7	15-9	15-10	15-11	16-0	16-1	16-2	16-3
350.00	17-11	18-0	18-1	18-3	18-4	18-5	18-7	18-8	18-9	18-10
375.00	20-7	20-8	20-10	20-11	21-1	21-2	21-4	21-5	21-6	21-8
400.00	23-5	23-7	23-8	23-10	24-0	24-1	24-3	24-5	24-6	24-8
425.00	26-5	26-7	26-9	26-11	27-1	27-3	27-5	27-7	27-8	27-10
450.00	29-8	29-10	30-0	30-2	30-5	30-7	30-9	30-11	31-1	31-3
475.00	33-1	33-3	33-6	33-8	33-10	34-1	34-3	34-5	34-8	34-10
500.00	36-8	36-11	37-1	37-4	37-7	37-9	38-0	38-2	38-5	38-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-10	5-11	5-11	5-11	6-0	6-0	6-1	6-1	6-1	6-2
225.00	7-5	7-5	7-6	7-6	7-7	7-7	7-8	7-8	7-9	7-9
250.00	9-2	9-2	9-3	9-4	9-4	9-5	9-6	9-6	9-7	9-7
275.00	11-1	11-1	11-2	11-3	11-4	11-5	11-5	11-6	11-7	11-8
300.00	13-2	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-9	13-10
325.00	15-5	15-7	15-8	15-9	15-10	15-11	16-0	16-1	16-2	16-3
350.00	17-11	18-0	18-2	18-3	18-4	18-6	18-7	18-8	18-9	18-10
375.00	20-7	20-9	20-10	21-0	21-1	21-3	21-4	21-5	21-7	21-8
400.00	23-5	23-7	23-9	23-10	24-0	24-2	24-3	24-5	24-7	24-8
425.00	26-6	26-8	26-10	27-0	27-1	27-3	27-5	27-7	27-9	27-10
450.00	29-9	29-11	30-1	30-3	30-5	30-7	30-9	30-11	31-1	31-3
475.00	33-2	33-4	33-6	33-9	33-11	34-1	34-4	34-6	34-8	34-10
500.00	36-9	36-11	37-2	37-5	37-7	37-10	38-1	38-3	38-6	38-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.127

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-3	9-3	9-4	9-4	9-5	9-5	9-5	9-6	9-6	9-7
275.00	11-2	11-3	11-3	11-4	11-4	11-5	11-5	11-6	11-6	11-7
300.00	13-4	13-4	13-5	13-6	13-6	13-7	13-7	13-8	13-9	13-9
325.00	15-8	15-8	15-9	15-10	15-10	15-11	16-0	16-1	16-1	16-2
350.00	18-2	18-3	18-3	18-4	18-5	18-6	18-7	18-7	18-8	18-9
375.00	20-10	20-11	21-0	21-1	21-2	21-3	21-4	21-5	21-6	21-6
400.00	23-9	23-10	23-11	24-0	24-1	24-2	24-3	24-4	24-5	24-6
425.00	26-10	26-11	27-0	27-1	27-2	27-4	27-5	27-6	27-7	27-8
450.00	30-1	30-2	30-4	30-5	30-6	30-8	30-9	30-10	31-0	31-1
475.00	33-6	33-8	33-9	33-11	34-0	34-2	34-3	34-5	34-6	34-8
500.00	37-2	37-4	37-5	37-7	37-9	37-10	38-0	38-2	38-3	38-5
525.00	41-0	41-2	41-4	41-6	41-8	41-9	41-11	42-1	42-3	42-5
550.00	45-1	45-3	45-5	45-7	45-9	45-11	46-1	46-3	46-5	46-7
575.00	49-3	49-6	49-8	49-10	50-0	50-3	50-5	50-7	50-9	50-11
600.00	53-8	53-11	54-1	54-4	54-6	54-9	54-11	55-1	55-4	55-6
625.00	58-4	58-7	58-9	59-0	59-3	59-5	59-8	59-10	60-1	60-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-3	9-3	9-4	9-4	9-5	9-5	9-5	9-6	9-6	9-7
275.00	11-2	11-3	11-3	11-4	11-4	11-5	11-5	11-6	11-6	11-7
300.00	13-4	13-5	13-5	13-6	13-6	13-7	13-8	13-8	13-9	13-9
325.00	15-8	15-9	15-9	15-10	15-11	15-11	16-0	16-1	16-1	16-2
350.00	18-2	18-3	18-4	18-4	18-5	18-6	18-7	18-8	18-8	18-9
375.00	20-10	20-11	21-0	21-1	21-2	21-3	21-4	21-5	21-6	21-7
400.00	23-9	23-10	23-11	24-0	24-1	24-2	24-3	24-4	24-6	24-6
425.00	26-10	26-11	27-0	27-2	27-3	27-4	27-5	27-6	27-8	27-9
450.00	30-1	30-3	30-4	30-5	30-7	30-8	30-9	30-11	31-0	31-1
475.00	33-7	33-8	33-10	33-11	34-1	34-2	34-4	34-5	34-7	34-8
500.00	37-3	37-4	37-6	37-8	37-9	37-11	38-1	38-2	38-4	38-5
525.00	41-1	41-3	41-4	41-6	41-8	41-10	42-0	42-2	42-3	42-5
550.00	45-1	45-3	45-5	45-7	45-9	45-11	46-1	46-3	46-5	46-7
575.00	49-4	49-6	49-8	49-11	50-1	50-3	50-5	50-8	50-10	50-11
600.00	53-9	54-0	54-2	54-4	54-7	54-9	55-0	55-2	55-5	55-6
625.00	58-5	58-7	58-10	59-1	59-3	59-6	59-8	59-11	60-2	60-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.128

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.179	1.05	1399	0.98	1500*
20	0	0	0	0.785	0.49	1996	0.45	2159
30	0	0	0	0.785	0.62	1572	0.56	1741
40	0	0	0	0.785	0.78	1259	0.7	1402
50	0	0	0	0.785	0.94	1043	0.85	1152
60	0	0	0	0.785	1.1	894	1.01	975
70	0	0	0	0.785	1.25	788	1.16	848
80	0	0	0	0.785	1.39	709	1.3	756
90	0	0	0	0.785	1.52	648	1.43	686
100	0	0	0	0.785	1.59	616	1.56	631
110	0	0	0	0.785	1.66	591	1.66	591
120	0	0	0	0.785	1.73	568	1.73	568
130	0	0	0	0.785	1.79	547	1.79	547
167	0	0	0	0.785	2.02	486	2.02	486
212	0	0	0	0.785	2.28	431	2.28	431

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.179	4.05	1458	3.94	1500*
20	0	0	0	0.785	3.28	1198	3.14	1250
30	0	0	0	0.785	3.5	1124	3.36	1169
40	0	0	0	0.785	3.7	1061	3.57	1101
50	0	0	0	0.785	3.9	1007	3.77	1042
60	0	0	0	0.785	4.1	960	3.97	991
70	0	0	0	0.785	4.28	918	4.15	947
80	0	0	0	0.785	4.46	881	4.33	907
90	0	0	0	0.785	4.64	849	4.51	872
100	0	0	0	0.785	4.8	819	4.68	841
110	0	0	0	0.785	4.93	798	4.84	812
120	0	0	0	0.785	5.03	783	5	786
130	0	0	0	0.785	5.13	768	5.13	768
167	0	0	0	0.785	5.47	720	5.47	720
212	0	0	0	0.785	5.86	672	5.86	672

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.129

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.179	9	1479	8.87	1500*
20	0	0	0	0.785	8.21	1078	8.07	1097
30	0	0	0	0.785	8.43	1051	8.29	1069
40	0	0	0	0.785	8.64	1026	8.5	1043
50	0	0	0	0.785	8.85	1002	8.7	1018
60	0	0	0	0.785	9.05	980	8.9	995
70	0	0	0	0.785	9.25	959	9.1	974
80	0	0	0	0.785	9.44	939	9.3	954
90	0	0	0	0.785	9.63	921	9.49	935
100	0	0	0	0.785	9.82	903	9.67	917
110	0	0	0	0.785	10	887	9.86	900
120	0	0	0	0.785	10.12	877	10.04	884
130	0	0	0	0.785	10.23	867	10.22	868
167	0	0	0	0.785	10.64	834	10.64	834
212	0	0	0	0.785	11.12	799	11.12	799

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.179	15.95	1488	15.81	1500*
20	0	0	0	0.785	15.16	1042	15.01	1052
30	0	0	0	0.785	15.37	1027	15.23	1037
40	0	0	0	0.785	15.58	1014	15.44	1023
50	0	0	0	0.785	15.79	1000	15.64	1010
60	0	0	0	0.785	16	988	15.85	997
70	0	0	0	0.785	16.2	975	16.05	985
80	0	0	0	0.785	16.4	964	16.25	973
90	0	0	0	0.785	16.6	952	16.45	961
100	0	0	0	0.785	16.8	941	16.64	950
110	0	0	0	0.785	16.99	931	16.84	939
120	0	0	0	0.785	17.14	923	17.03	929
130	0	0	0	0.785	17.26	916	17.22	919
167	0	0	0	0.785	17.71	893	17.71	893
212	0	0	0	0.785	18.23	868	18.23	868

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.130

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.179	24.93	1492	24.8	1500*
20	0	0	0	0.785	24.14	1025	24	1032
30	0	0	0	0.785	24.36	1017	24.21	1023
40	0	0	0	0.785	24.57	1008	24.42	1014
50	0	0	0	0.785	24.78	1000	24.63	1006
60	0	0	0	0.785	24.98	992	24.83	998
70	0	0	0	0.785	25.19	984	25.04	990
80	0	0	0	0.785	25.39	976	25.24	982
90	0	0	0	0.785	25.6	968	25.44	974
100	0	0	0	0.785	25.8	961	25.64	967
110	0	0	0	0.785	26	954	25.84	960
120	0	0	0	0.785	26.17	948	26.04	952
130	0	0	0	0.785	26.3	943	26.23	945
167	0	0	0	0.785	26.76	927	26.76	927
212	0	0	0	0.785	27.31	909	27.31	909

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11
100.00	0-5	0-7	0-8	0-10	1-0	1-2	1-4	1-5	1-7	1-8
125.00	0-9	0-11	1-1	1-4	1-7	1-10	2-0	2-3	2-5	2-7
150.00	1-0	1-3	1-7	1-11	2-3	2-7	2-11	3-3	3-6	3-9
175.00	1-5	1-9	2-2	2-7	3-1	3-7	4-0	4-5	4-9	5-1
200.00	1-10	2-3	2-10	3-5	4-0	4-8	5-2	5-9	6-3	6-8

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11
100.00	0-6	0-7	0-9	0-11	1-1	1-3	1-5	1-6	1-7	1-8
125.00	0-9	1-0	1-3	1-6	1-9	1-11	2-2	2-4	2-6	2-7
150.00	1-1	1-5	1-9	2-1	2-6	2-10	3-1	3-5	3-7	3-9
175.00	1-6	1-11	2-5	2-11	3-4	3-10	4-3	4-8	4-11	5-1
200.00	2-0	2-6	3-1	3-9	4-5	5-0	5-7	6-1	6-5	6-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.132

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3
125.00	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-11
150.00	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-6	2-8	2-9
175.00	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-5	3-7	3-8
200.00	3-2	3-4	3-7	3-9	4-0	4-2	4-4	4-6	4-8	4-10
225.00	4-0	4-3	4-6	4-9	5-0	5-3	5-6	5-8	5-11	6-2
250.00	4-11	5-3	5-7	5-11	6-2	6-6	6-9	7-1	7-4	7-7

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-11
150.00	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-7	2-8	2-9
175.00	2-6	2-8	2-10	3-0	3-2	3-3	3-5	3-7	3-8	3-9
200.00	3-3	3-6	3-8	3-11	4-1	4-3	4-6	4-8	4-10	4-11
225.00	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-10	6-1	6-3
250.00	5-2	5-6	5-9	6-1	6-5	6-8	7-0	7-3	7-6	7-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

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Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-4	2-5	2-6
175.00	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3	3-4
200.00	3-7	3-8	3-9	3-10	3-11	4-1	4-2	4-3	4-4	4-5
225.00	4-6	4-8	4-9	4-11	5-0	5-1	5-3	5-4	5-5	5-7
250.00	5-7	5-9	5-11	6-0	6-2	6-4	6-5	6-7	6-9	6-10
275.00	6-9	7-0	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-3
300.00	8-1	8-3	8-6	8-8	8-11	9-1	9-4	9-6	9-8	9-10
325.00	9-6	9-9	10-0	10-3	10-5	10-8	10-11	11-2	11-4	11-7
350.00	11-0	11-3	11-7	11-10	12-1	12-5	12-8	12-11	13-2	13-5
375.00	12-7	12-11	13-3	13-7	13-11	14-3	14-6	14-10	15-2	15-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-1	2-1	2-2	2-3	2-3	2-4	2-4	2-5	2-5	2-6
175.00	2-10	2-10	2-11	3-0	3-1	3-2	3-3	3-3	3-4	3-5
200.00	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5
225.00	4-7	4-9	4-10	5-0	5-1	5-2	5-4	5-5	5-6	5-7
250.00	5-8	5-10	6-0	6-2	6-3	6-5	6-7	6-8	6-10	6-11
275.00	6-11	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5
300.00	8-3	8-5	8-8	8-10	9-1	9-3	9-5	9-8	9-10	10-0
325.00	9-8	9-11	10-2	10-5	10-7	10-10	11-1	11-4	11-6	11-9
350.00	11-2	11-6	11-9	12-1	12-4	12-7	12-10	13-1	13-4	13-7
375.00	12-10	13-2	13-6	13-10	14-2	14-5	14-9	15-1	15-4	15-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.134

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-9	3-10	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-2
225.00	4-9	4-10	4-11	4-11	5-0	5-1	5-2	5-2	5-3	5-4
250.00	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7
275.00	7-1	7-2	7-3	7-5	7-6	7-7	7-8	7-9	7-10	7-11
300.00	8-5	8-7	8-8	8-9	8-11	9-0	9-2	9-3	9-4	9-6
325.00	9-11	10-1	10-2	10-4	10-5	10-7	10-9	10-10	11-0	11-1
350.00	11-6	11-8	11-10	12-0	12-2	12-3	12-5	12-7	12-9	12-11
375.00	13-2	13-5	13-7	13-9	13-11	14-1	14-3	14-5	14-7	14-10
400.00	15-0	15-3	15-5	15-8	15-10	16-1	16-3	16-5	16-8	16-10
425.00	16-11	17-2	17-5	17-8	17-11	18-1	18-4	18-7	18-10	19-0
450.00	19-0	19-3	19-7	19-10	20-1	20-4	20-7	20-10	21-1	21-4
475.00	21-2	21-6	21-9	22-1	22-4	22-8	22-11	23-3	23-6	23-9
500.00	23-6	23-10	24-2	24-6	24-9	25-1	25-5	25-9	26-0	26-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-9	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-2	4-3
225.00	4-9	4-10	4-11	5-0	5-1	5-1	5-2	5-3	5-4	5-4
250.00	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8
275.00	7-2	7-3	7-4	7-5	7-7	7-8	7-9	7-10	7-11	8-0
300.00	8-6	8-8	8-9	8-10	9-0	9-1	9-3	9-4	9-5	9-7
325.00	10-0	10-2	10-3	10-5	10-7	10-8	10-10	10-11	11-1	11-2
350.00	11-7	11-9	11-11	12-1	12-3	12-5	12-7	12-8	12-10	13-0
375.00	13-4	13-6	13-8	13-11	14-1	14-3	14-5	14-7	14-9	14-11
400.00	15-2	15-4	15-7	15-10	16-0	16-2	16-5	16-7	16-10	17-0
425.00	17-1	17-4	17-7	17-10	18-1	18-4	18-6	18-9	19-0	19-2
450.00	19-2	19-6	19-9	20-0	20-3	20-6	20-9	21-0	21-3	21-6
475.00	21-5	21-8	22-0	22-3	22-7	22-10	23-2	23-5	23-8	24-0
500.00	23-9	24-1	24-5	24-8	25-0	25-4	25-8	26-0	26-3	26-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.135

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-0	6-0	6-1	6-2	6-2	6-3	6-4	6-4	6-5	6-5
275.00	7-3	7-4	7-4	7-5	7-6	7-7	7-7	7-8	7-9	7-10
300.00	8-7	8-8	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-3
325.00	10-1	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-11
350.00	11-9	11-10	11-11	12-1	12-2	12-3	12-4	12-5	12-6	12-8
375.00	13-6	13-7	13-9	13-10	13-11	14-1	14-2	14-3	14-5	14-6
400.00	15-4	15-6	15-7	15-9	15-10	16-0	16-2	16-3	16-5	16-6
425.00	17-4	17-6	17-8	17-9	17-11	18-1	18-3	18-4	18-6	18-8
450.00	19-5	19-7	19-9	19-11	20-1	20-3	20-5	20-7	20-9	20-11
475.00	21-8	21-10	22-0	22-3	22-5	22-7	22-9	22-11	23-2	23-4
500.00	24-0	24-3	24-5	24-8	24-10	25-0	25-3	25-5	25-8	25-10
525.00	26-6	26-8	26-11	27-2	27-5	27-7	27-10	28-1	28-3	28-6
550.00	29-1	29-4	29-7	29-10	30-1	30-4	30-7	30-10	31-1	31-3
575.00	31-9	32-1	32-4	32-7	32-10	33-2	33-5	33-8	33-11	34-3
600.00	34-7	34-11	35-3	35-6	35-10	36-1	36-5	36-8	37-0	37-3
625.00	37-7	37-11	38-3	38-7	38-10	39-2	39-6	39-10	40-2	40-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-0	6-1	6-2	6-2	6-3	6-3	6-4	6-5	6-5	6-6
275.00	7-3	7-4	7-5	7-6	7-6	7-7	7-8	7-9	7-9	7-10
300.00	8-8	8-9	8-10	8-11	9-0	9-1	9-1	9-2	9-3	9-4
325.00	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-10	10-11	11-0
350.00	11-10	11-11	12-0	12-1	12-3	12-4	12-5	12-6	12-7	12-9
375.00	13-7	13-8	13-10	13-11	14-0	14-2	14-3	14-5	14-6	14-7
400.00	15-5	15-7	15-8	15-10	16-0	16-1	16-3	16-4	16-6	16-7
425.00	17-5	17-7	17-9	17-11	18-0	18-2	18-4	18-6	18-7	18-9
450.00	19-7	19-9	19-11	20-1	20-3	20-5	20-7	20-9	20-11	21-1
475.00	21-9	22-0	22-2	22-4	22-6	22-9	22-11	23-1	23-3	23-5
500.00	24-2	24-4	24-7	24-9	25-0	25-2	25-5	25-7	25-10	26-0
525.00	26-8	26-10	27-1	27-4	27-7	27-9	28-0	28-3	28-5	28-8
550.00	29-3	29-6	29-9	30-0	30-3	30-6	30-9	31-0	31-3	31-6
575.00	32-0	32-3	32-6	32-10	33-1	33-4	33-7	33-11	34-2	34-5
600.00	34-10	35-1	35-5	35-9	36-0	36-4	36-7	36-11	37-2	37-6
625.00	37-10	38-2	38-5	38-9	39-1	39-5	39-9	40-1	40-5	40-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.136

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Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.179	0.85	1744	0.74	2000*
20	0	0	0	0.785	0.35	2783	0.32	3081
30	0	0	0	0.785	0.44	2233	0.38	2582
40	0	0	0	0.785	0.56	1761	0.46	2113
50	0	0	0	0.785	0.7	1395	0.58	1700
60	0	0	0	0.785	0.86	1136	0.72	1370
70	0	0	0	0.785	1.02	958	0.87	1128
80	0	0	0	0.785	1.18	834	1.03	957
90	0	0	0	0.785	1.32	744	1.17	836
100	0	0	0	0.785	1.39	706	1.32	746
110	0	0	0	0.785	1.46	672	1.45	678
120	0	0	0	0.785	1.54	639	1.54	639
130	0	0	0	0.785	1.61	612	1.61	612
167	0	0	0	0.785	1.85	531	1.85	531
212	0	0	0	0.785	2.12	464	2.12	464

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.179	3.16	1868	2.95	2000*
20	0	0	0	0.785	2.19	1792	1.96	2005
30	0	0	0	0.785	2.45	1605	2.2	1785
40	0	0	0	0.785	2.7	1456	2.44	1607
50	0	0	0	0.785	2.94	1337	2.68	1463
60	0	0	0	0.785	3.17	1240	2.92	1346
70	0	0	0	0.785	3.39	1159	3.14	1249
80	0	0	0	0.785	3.6	1091	3.36	1169
90	0	0	0	0.785	3.81	1032	3.57	1100
100	0	0	0	0.785	4	982	3.77	1041
110	0	0	0	0.785	4.15	946	3.97	991
120	0	0	0	0.785	4.26	923	4.16	946
130	0	0	0	0.785	4.37	901	4.34	907
167	0	0	0	0.785	4.75	828	4.75	828
212	0	0	0	0.785	5.19	759	5.19	759

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.137

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.179	6.9	1927	6.64	2000*
20	0	0	0	0.785	5.84	1516	5.53	1599
30	0	0	0	0.785	6.11	1447	5.81	1522
40	0	0	0	0.785	6.39	1385	6.09	1454
50	0	0	0	0.785	6.65	1331	6.35	1393
60	0	0	0	0.785	6.9	1282	6.61	1339
70	0	0	0	0.785	7.15	1238	6.86	1290
80	0	0	0	0.785	7.39	1198	7.1	1246
90	0	0	0	0.785	7.63	1161	7.34	1206
100	0	0	0	0.785	7.86	1127	7.58	1169
110	0	0	0	0.785	8.08	1096	7.8	1135
120	0	0	0	0.785	8.25	1073	8.02	1104
130	0	0	0	0.785	8.38	1057	8.24	1075
167	0	0	0	0.785	8.86	1000	8.86	1000
212	0	0	0	0.785	9.41	943	9.41	943

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.179	12.1	1955	11.83	2000*
20	0	0	0	0.785	11.01	1430	10.7	1472
30	0	0	0	0.785	11.3	1394	10.98	1434
40	0	0	0	0.785	11.57	1361	11.25	1399
50	0	0	0	0.785	11.84	1330	11.53	1367
60	0	0	0	0.785	12.11	1301	11.79	1336
70	0	0	0	0.785	12.37	1274	12.05	1307
80	0	0	0	0.785	12.62	1249	12.31	1280
90	0	0	0	0.785	12.87	1224	12.56	1254
100	0	0	0	0.785	13.12	1202	12.81	1230
110	0	0	0	0.785	13.36	1180	13.06	1207
120	0	0	0	0.785	13.6	1159	13.3	1186
130	0	0	0	0.785	13.76	1146	13.54	1165
167	0	0	0	0.785	14.3	1104	14.3	1104
212	0	0	0	0.785	14.92	1058	14.92	1058

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 138 OF 360

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.138

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.179	18.81	1970	18.52	2000*
20	0	0	0	0.785	17.7	1393	17.38	1418
30	0	0	0	0.785	17.98	1371	17.66	1396
40	0	0	0	0.785	18.26	1350	17.94	1375
50	0	0	0	0.785	18.54	1331	18.21	1354
60	0	0	0	0.785	18.81	1312	18.48	1335
70	0	0	0	0.785	19.07	1294	18.75	1316
80	0	0	0	0.785	19.34	1276	19.01	1298
90	0	0	0	0.785	19.6	1259	19.27	1280
100	0	0	0	0.785	19.86	1243	19.53	1264
110	0	0	0	0.785	20.11	1228	19.79	1248
120	0	0	0	0.785	20.36	1213	20.04	1232
130	0	0	0	0.785	20.57	1201	20.29	1217
167	0	0	0	0.785	21.15	1168	21.15	1168
212	0	0	0	0.785	21.82	1133	21.82	1133

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.139

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10
100.00	0-4	0-5	0-6	0-7	0-9	0-10	1-0	1-2	1-4	1-5
125.00	0-6	0-7	0-9	0-11	1-1	1-4	1-7	1-10	2-1	2-3
150.00	0-9	0-10	1-1	1-4	1-7	2-0	2-4	2-8	3-0	3-3
175.00	1-0	1-2	1-5	1-9	2-2	2-8	3-2	3-7	4-0	4-5
200.00	1-3	1-6	1-10	2-4	2-10	3-6	4-1	4-8	5-3	5-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9	0-10
100.00	0-4	0-5	0-7	0-8	0-10	1-0	1-2	1-4	1-5	1-6
125.00	0-7	0-8	0-10	1-1	1-4	1-7	1-10	2-1	2-2	2-3
150.00	0-10	1-0	1-3	1-7	1-11	2-4	2-8	3-0	3-2	3-3
175.00	1-1	1-4	1-8	2-2	2-8	3-2	3-7	4-1	4-3	4-6
200.00	1-5	1-9	2-3	2-10	3-5	4-1	4-9	5-3	5-7	5-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.140

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0
125.00	0-9	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-6	1-7
150.00	1-1	1-3	1-4	1-6	1-8	1-9	1-11	2-0	2-1	2-3
175.00	1-6	1-8	1-10	2-1	2-3	2-5	2-7	2-9	2-11	3-0
200.00	1-11	2-2	2-5	2-8	2-11	3-2	3-4	3-7	3-9	4-0
225.00	2-6	2-9	3-1	3-5	3-8	4-0	4-3	4-6	4-9	5-0
250.00	3-1	3-5	3-10	4-2	4-7	4-11	5-3	5-7	5-11	6-2

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-7	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0
125.00	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7
150.00	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-4
175.00	1-8	1-10	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-2
200.00	2-2	2-5	2-8	2-11	3-2	3-5	3-7	3-10	4-0	4-2
225.00	2-9	3-1	3-5	3-9	4-0	4-4	4-7	4-10	5-1	5-3
250.00	3-5	3-10	4-3	4-7	4-11	5-4	5-8	5-11	6-3	6-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.141

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11
175.00	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
200.00	2-5	2-7	2-8	2-10	2-11	3-1	3-2	3-3	3-4	3-6
225.00	3-1	3-3	3-5	3-7	3-9	3-10	4-0	4-2	4-3	4-5
250.00	3-10	4-0	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-5
275.00	4-8	4-11	5-1	5-4	5-7	5-9	6-0	6-2	6-4	6-7
300.00	5-6	5-10	6-1	6-4	6-7	6-10	7-1	7-4	7-7	7-10
325.00	6-6	6-10	7-2	7-5	7-9	8-1	8-4	8-7	8-11	9-2
350.00	7-6	7-11	8-3	8-8	9-0	9-4	9-8	10-0	10-4	10-7
375.00	8-8	9-1	9-6	9-11	10-4	10-9	11-1	11-6	11-10	12-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-11	2-0	2-0
175.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
200.00	2-7	2-9	2-10	2-11	3-1	3-2	3-3	3-5	3-6	3-7
225.00	3-3	3-5	3-7	3-9	3-11	4-0	4-2	4-3	4-5	4-7
250.00	4-1	4-3	4-5	4-7	4-10	5-0	5-2	5-4	5-5	5-7
275.00	4-11	5-2	5-4	5-7	5-10	6-0	6-3	6-5	6-7	6-9
300.00	5-10	6-1	6-5	6-8	6-11	7-2	7-5	7-8	7-10	8-1
325.00	6-10	7-2	7-6	7-10	8-1	8-5	8-8	8-11	9-3	9-6
350.00	7-11	8-4	8-8	9-1	9-5	9-9	10-1	10-5	10-8	11-0
375.00	9-1	9-7	10-0	10-5	10-9	11-2	11-7	11-11	12-3	12-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-2	3-3
225.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
250.00	4-2	4-3	4-5	4-6	4-7	4-8	4-10	4-11	5-0	5-1
275.00	5-1	5-2	5-4	5-5	5-7	5-8	5-10	5-11	6-1	6-2
300.00	6-0	6-2	6-4	6-6	6-8	6-9	6-11	7-1	7-2	7-4
325.00	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-7
350.00	8-2	8-5	8-7	8-10	9-0	9-3	9-5	9-7	9-10	10-0
375.00	9-5	9-8	9-11	10-2	10-4	10-7	10-10	11-0	11-3	11-6
400.00	10-8	11-0	11-3	11-6	11-10	12-1	12-4	12-7	12-10	13-1
425.00	12-1	12-5	12-8	13-0	13-4	13-7	13-11	14-2	14-6	14-9
450.00	13-6	13-11	14-3	14-7	14-11	15-3	15-7	15-11	16-3	16-6
475.00	15-1	15-6	15-11	16-3	16-8	17-0	17-4	17-9	18-1	18-5
500.00	16-9	17-2	17-7	18-0	18-5	18-10	19-3	19-8	20-0	20-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-3	3-3	3-4
225.00	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3
250.00	4-4	4-5	4-6	4-7	4-9	4-10	4-11	5-0	5-1	5-3
275.00	5-2	5-4	5-6	5-7	5-9	5-10	6-0	6-1	6-2	6-4
300.00	6-2	6-4	6-6	6-8	6-10	6-11	7-1	7-3	7-5	7-6
325.00	7-3	7-5	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-10
350.00	8-5	8-8	8-10	9-1	9-3	9-6	9-8	9-10	10-1	10-3
375.00	9-8	9-11	10-2	10-5	10-8	10-10	11-1	11-4	11-6	11-9
400.00	11-0	11-4	11-7	11-10	12-1	12-4	12-7	12-10	13-1	13-4
425.00	12-5	12-9	13-1	13-4	13-8	14-0	14-3	14-6	14-10	15-1
450.00	13-11	14-4	14-8	15-0	15-4	15-8	16-0	16-4	16-7	16-11
475.00	15-6	15-11	16-4	16-8	17-1	17-5	17-10	18-2	18-6	18-10
500.00	17-3	17-8	18-1	18-6	18-11	19-4	19-9	20-2	20-6	20-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.143

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-4	4-5	4-6	4-7	4-7	4-8	4-9	4-10	4-11	4-11
275.00	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0
300.00	6-3	6-4	6-5	6-7	6-8	6-9	6-10	6-11	7-0	7-1
325.00	7-4	7-5	7-7	7-8	7-10	7-11	8-0	8-2	8-3	8-4
350.00	8-6	8-8	8-9	8-11	9-1	9-2	9-4	9-5	9-7	9-8
375.00	9-9	9-11	10-1	10-3	10-5	10-6	10-8	10-10	11-0	11-1
400.00	11-1	11-4	11-6	11-8	11-10	12-0	12-2	12-4	12-6	12-8
425.00	12-7	12-9	12-11	13-2	13-4	13-6	13-9	13-11	14-1	14-3
450.00	14-1	14-4	14-6	14-9	15-0	15-2	15-5	15-7	15-10	16-0
475.00	15-8	15-11	16-2	16-5	16-8	16-11	17-2	17-5	17-7	17-10
500.00	17-5	17-8	17-11	18-3	18-6	18-9	19-0	19-3	19-6	19-9
525.00	19-2	19-6	19-9	20-1	20-5	20-8	21-0	21-3	21-6	21-10
550.00	21-0	21-5	21-9	22-1	22-4	22-8	23-0	23-4	23-8	23-11
575.00	23-0	23-4	23-9	24-1	24-5	24-10	25-2	25-6	25-10	26-2
600.00	25-1	25-5	25-10	26-3	26-8	27-0	27-5	27-9	28-2	28-6
625.00	27-2	27-7	28-1	28-6	28-11	29-4	29-9	30-2	30-7	30-11

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-5	4-6	4-7	4-8	4-8	4-9	4-10	4-11	4-11	5-0
275.00	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1
300.00	6-4	6-6	6-7	6-8	6-9	6-10	6-11	7-1	7-2	7-3
325.00	7-6	7-7	7-8	7-10	7-11	8-1	8-2	8-3	8-5	8-6
350.00	8-8	8-10	8-11	9-1	9-2	9-4	9-6	9-7	9-9	9-10
375.00	9-11	10-1	10-3	10-5	10-7	10-9	10-10	11-0	11-2	11-4
400.00	11-4	11-6	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-10
425.00	12-9	13-0	13-2	13-5	13-7	13-9	14-0	14-2	14-4	14-6
450.00	14-4	14-7	14-9	15-0	15-3	15-5	15-8	15-10	16-1	16-3
475.00	16-0	16-3	16-6	16-9	17-0	17-3	17-5	17-8	17-11	18-2
500.00	17-8	18-0	18-3	18-6	18-10	19-1	19-4	19-7	19-10	20-1
525.00	19-6	19-10	20-2	20-5	20-9	21-0	21-4	21-7	21-11	22-2
550.00	21-5	21-9	22-1	22-5	22-9	23-1	23-5	23-9	24-0	24-4
575.00	23-5	23-10	24-2	24-6	24-11	25-3	25-7	25-11	26-3	26-7
600.00	25-6	25-11	26-4	26-9	27-1	27-6	27-10	28-3	28-7	29-0
625.00	27-8	28-2	28-7	29-0	29-5	29-10	30-3	30-8	31-1	31-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.144

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.179	0.72	2051	0.59	2500*
20	0	0	0	0.785	0.29	3343	0.26	3777
30	0	0	0	0.785	0.36	2750	0.3	3264
40	0	0	0	0.785	0.45	2203	0.36	2758
50	0	0	0	0.785	0.57	1737	0.43	2273
60	0	0	0	0.785	0.71	1377	0.53	1834
70	0	0	0	0.785	0.87	1124	0.67	1472
80	0	0	0	0.785	1.03	950	0.82	1201
90	0	0	0	0.785	1.17	839	0.97	1008
100	0	0	0	0.785	1.24	790	1.13	872
110	0	0	0	0.785	1.31	747	1.27	773
120	0	0	0	0.785	1.39	704	1.39	704
130	0	0	0	0.785	1.47	670	1.47	670
167	0	0	0	0.785	1.72	572	1.72	572
212	0	0	0	0.785	2	491	2	491

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.179	2.65	2228	2.36	2500*
20	0	0	0	0.785	1.61	2443	1.36	2894
30	0	0	0	0.785	1.85	2121	1.55	2530
40	0	0	0	0.785	2.11	1864	1.77	2217
50	0	0	0	0.785	2.36	1661	2.01	1956
60	0	0	0	0.785	2.62	1502	2.25	1744
70	0	0	0	0.785	2.86	1374	2.5	1574
80	0	0	0	0.785	3.09	1270	2.74	1436
90	0	0	0	0.785	3.32	1184	2.97	1323
100	0	0	0	0.785	3.53	1112	3.19	1230
110	0	0	0	0.785	3.69	1065	3.41	1152
120	0	0	0	0.785	3.8	1034	3.62	1086
130	0	0	0	0.785	3.91	1005	3.82	1029
167	0	0	0	0.785	4.32	910	4.32	910
212	0	0	0	0.785	4.78	823	4.78	823

* Design Condition

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SHEET 145 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.145

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Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.179	5.7	2332	5.31	2500*
20	0	0	0	0.785	4.41	2006	3.95	2239
30	0	0	0	0.785	4.73	1869	4.26	2073
40	0	0	0	0.785	5.04	1753	4.58	1932
50	0	0	0	0.785	5.35	1653	4.88	1811
60	0	0	0	0.785	5.64	1567	5.18	1706
70	0	0	0	0.785	5.93	1492	5.47	1615
80	0	0	0	0.785	6.21	1426	5.76	1536
90	0	0	0	0.785	6.47	1367	6.03	1466
100	0	0	0	0.785	6.73	1314	6.3	1404
110	0	0	0	0.785	6.99	1267	6.56	1348
120	0	0	0	0.785	7.19	1230	6.82	1299
130	0	0	0	0.785	7.33	1207	7.06	1253
167	0	0	0	0.785	7.85	1128	7.85	1128
212	0	0	0	0.785	8.44	1050	8.44	1050

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.179	9.89	2390	9.45	2500*
20	0	0	0	0.785	8.51	1848	7.99	1969
30	0	0	0	0.785	8.85	1777	8.33	1888
40	0	0	0	0.785	9.18	1713	8.66	1815
50	0	0	0	0.785	9.51	1655	8.99	1749
60	0	0	0	0.785	9.82	1602	9.31	1690
70	0	0	0	0.785	10.13	1554	9.63	1635
80	0	0	0	0.785	10.43	1509	9.93	1585
90	0	0	0	0.785	10.73	1468	10.23	1538
100	0	0	0	0.785	11.02	1430	10.53	1496
110	0	0	0	0.785	11.3	1394	10.81	1456
120	0	0	0	0.785	11.57	1361	11.09	1420
130	0	0	0	0.785	11.79	1337	11.37	1385
167	0	0	0	0.785	12.37	1274	12.35	1276
212	0	0	0	0.785	13.07	1206	13.07	1206

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.146

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.179	15.26	2423	14.79	2500*
20	0	0	0	0.785	13.84	1778	13.29	1851
30	0	0	0	0.785	14.18	1735	13.64	1804
40	0	0	0	0.785	14.52	1695	13.98	1761
50	0	0	0	0.785	14.85	1657	14.31	1720
60	0	0	0	0.785	15.18	1622	14.64	1681
70	0	0	0	0.785	15.5	1588	14.97	1645
80	0	0	0	0.785	15.82	1557	15.29	1611
90	0	0	0	0.785	16.13	1527	15.6	1579
100	0	0	0	0.785	16.44	1499	15.91	1548
110	0	0	0	0.785	16.74	1472	16.21	1519
120	0	0	0	0.785	17.03	1447	16.51	1492
130	0	0	0	0.785	17.32	1423	16.81	1466
167	0	0	0	0.785	17.98	1372	17.86	1380
212	0	0	0	0.785	18.75	1316	18.75	1316

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.147

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-4	0-4	0-6	0-7	0-8	0-9
100.00	0-3	0-4	0-4	0-5	0-6	0-8	0-10	1-0	1-2	1-3
125.00	0-5	0-6	0-7	0-8	0-10	1-0	1-3	1-6	1-9	2-0
150.00	0-7	0-8	0-10	1-0	1-2	1-6	1-10	2-2	2-6	2-10
175.00	0-10	0-11	1-1	1-4	1-8	2-0	2-6	3-0	3-5	3-11
200.00	1-0	1-2	1-5	1-9	2-2	2-8	3-3	3-11	4-6	5-1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9
100.00	0-4	0-4	0-5	0-7	0-9	0-10	1-0	1-2	1-3	1-4
125.00	0-6	0-7	0-8	0-11	1-1	1-4	1-7	1-10	1-11	2-1
150.00	0-8	0-10	1-0	1-3	1-7	2-0	2-4	2-8	2-10	3-0
175.00	0-11	1-1	1-4	1-9	2-2	2-8	3-2	3-7	3-10	4-0
200.00	1-2	1-5	1-9	2-3	2-10	3-6	4-2	4-8	5-0	5-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-10
125.00	0-6	0-7	0-8	0-9	0-11	1-0	1-1	1-2	1-3	1-4
150.00	0-9	0-10	1-0	1-2	1-3	1-5	1-6	1-8	1-10	1-11
175.00	1-0	1-2	1-4	1-6	1-9	1-11	2-1	2-3	2-5	2-7
200.00	1-4	1-7	1-9	2-0	2-3	2-6	2-9	3-0	3-2	3-5
225.00	1-9	2-0	2-3	2-6	2-10	3-2	3-6	3-9	4-1	4-4
250.00	2-1	2-5	2-9	3-2	3-6	3-11	4-3	4-8	5-0	5-4

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11	0-11
125.00	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-5
150.00	0-11	1-0	1-2	1-4	1-6	1-7	1-9	1-10	2-0	2-1
175.00	1-3	1-5	1-7	1-10	2-0	2-2	2-4	2-6	2-8	2-10
200.00	1-7	1-10	2-1	2-4	2-7	2-10	3-1	3-4	3-6	3-8
225.00	2-0	2-4	2-8	3-0	3-4	3-7	3-11	4-2	4-6	4-8
250.00	2-6	2-11	3-4	3-8	4-1	4-6	4-10	5-2	5-6	5-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.149

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-0	1-1	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-8
175.00	1-4	1-5	1-7	1-8	1-9	1-10	2-0	2-1	2-2	2-3
200.00	1-9	1-11	2-0	2-2	2-4	2-5	2-7	2-8	2-10	2-11
225.00	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-8
250.00	2-9	3-0	3-2	3-5	3-7	3-10	4-0	4-2	4-5	4-7
275.00	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-1	5-4	5-6
300.00	3-11	4-3	4-7	4-11	5-2	5-6	5-9	6-0	6-4	6-7
325.00	4-8	5-0	5-4	5-9	6-1	6-5	6-9	7-1	7-5	7-8
350.00	5-4	5-10	6-3	6-8	7-1	7-5	7-10	8-3	8-7	8-11
375.00	6-2	6-8	7-2	7-8	8-1	8-7	9-0	9-5	9-10	10-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9
175.00	1-6	1-7	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-5
200.00	1-11	2-1	2-3	2-5	2-6	2-8	2-9	2-11	3-0	3-1
225.00	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-9	3-11
250.00	3-1	3-3	3-6	3-9	3-11	4-1	4-4	4-6	4-8	4-10
275.00	3-8	4-0	4-3	4-6	4-9	5-0	5-3	5-5	5-8	5-10
300.00	4-5	4-9	5-1	5-4	5-8	5-11	6-2	6-6	6-9	7-0
325.00	5-2	5-7	5-11	6-3	6-7	7-0	7-3	7-7	7-11	8-2
350.00	6-0	6-5	6-10	7-3	7-8	8-1	8-5	8-10	9-2	9-6
375.00	6-11	7-5	7-11	8-4	8-10	9-3	9-8	10-1	10-6	10-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.150

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8
225.00	2-6	2-8	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-5
250.00	3-1	3-3	3-5	3-6	3-8	3-9	3-11	4-0	4-1	4-3
275.00	3-9	3-11	4-1	4-3	4-5	4-7	4-8	4-10	5-0	5-1
300.00	4-6	4-8	4-10	5-1	5-3	5-5	5-7	5-9	5-11	6-1
325.00	5-3	5-6	5-9	5-11	6-2	6-4	6-7	6-9	6-11	7-2
350.00	6-1	6-5	6-8	6-11	7-2	7-4	7-7	7-10	8-1	8-3
375.00	7-0	7-4	7-7	7-11	8-2	8-6	8-9	9-0	9-3	9-6
400.00	8-0	8-4	8-8	9-0	9-4	9-8	9-11	10-3	10-6	10-10
425.00	9-0	9-5	9-9	10-2	10-6	10-10	11-3	11-7	11-11	12-2
450.00	10-1	10-7	11-0	11-5	11-9	12-2	12-7	12-11	13-4	13-8
475.00	11-3	11-9	12-3	12-8	13-2	13-7	14-0	14-5	14-10	15-3
500.00	12-6	13-0	13-7	14-1	14-7	15-1	15-6	16-0	16-5	16-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-2	2-3	2-4	2-5	2-5	2-6	2-7	2-8	2-9	2-10
225.00	2-8	2-10	2-11	3-0	3-1	3-2	3-4	3-5	3-6	3-7
250.00	3-4	3-5	3-7	3-9	3-10	3-11	4-1	4-2	4-4	4-5
275.00	4-0	4-2	4-4	4-6	4-8	4-9	4-11	5-1	5-2	5-4
300.00	4-9	5-0	5-2	5-4	5-6	5-8	5-10	6-0	6-2	6-4
325.00	5-7	5-10	6-1	6-3	6-6	6-8	6-11	7-1	7-3	7-5
350.00	6-6	6-9	7-0	7-3	7-6	7-9	8-0	8-3	8-5	8-8
375.00	7-6	7-9	8-1	8-4	8-8	8-11	9-2	9-5	9-8	9-11
400.00	8-6	8-10	9-2	9-6	9-10	10-2	10-5	10-9	11-0	11-4
425.00	9-7	10-0	10-4	10-9	11-1	11-5	11-9	12-1	12-5	12-9
450.00	10-9	11-2	11-8	12-0	12-5	12-10	13-2	13-7	13-11	14-4
475.00	12-0	12-6	12-11	13-5	13-10	14-4	14-9	15-2	15-6	15-11
500.00	13-4	13-10	14-4	14-10	15-4	15-10	16-4	16-9	17-3	17-8

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STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.151

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1
275.00	4-0	4-1	4-3	4-4	4-5	4-6	4-7	4-9	4-10	4-11
300.00	4-9	4-11	5-0	5-2	5-3	5-5	5-6	5-7	5-9	5-10
325.00	5-7	5-9	5-11	6-1	6-2	6-4	6-5	6-7	6-9	6-10
350.00	6-6	6-8	6-10	7-0	7-2	7-4	7-6	7-8	7-9	7-11
375.00	7-6	7-8	7-10	8-1	8-3	8-5	8-7	8-9	8-11	9-1
400.00	8-6	8-9	8-11	9-2	9-4	9-7	9-9	10-0	10-2	10-4
425.00	9-7	9-10	10-1	10-4	10-7	10-10	11-0	11-3	11-6	11-9
450.00	10-9	11-1	11-4	11-7	11-10	12-1	12-5	12-8	12-11	13-2
475.00	12-0	12-4	12-7	12-11	13-3	13-6	13-10	14-1	14-4	14-8
500.00	13-3	13-8	14-0	14-4	14-8	15-0	15-3	15-7	15-11	16-3
525.00	14-8	15-0	15-5	15-9	16-2	16-6	16-10	17-2	17-6	17-11
550.00	16-1	16-6	16-11	17-4	17-9	18-1	18-6	18-11	19-3	19-7
575.00	17-7	18-0	18-6	18-11	19-4	19-10	20-3	20-8	21-1	21-5
600.00	19-2	19-8	20-2	20-7	21-1	21-7	22-0	22-6	22-11	23-4
625.00	20-9	21-4	21-10	22-5	22-11	23-5	23-11	24-5	24-11	25-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-5	3-7	3-8	3-9	3-10	3-10	3-11	4-0	4-1	4-2
275.00	4-2	4-3	4-5	4-6	4-7	4-8	4-9	4-10	5-0	5-1
300.00	5-0	5-1	5-3	5-4	5-6	5-7	5-8	5-10	5-11	6-0
325.00	5-10	6-0	6-2	6-3	6-5	6-7	6-8	6-10	6-11	7-1
350.00	6-9	6-11	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-2
375.00	7-9	8-0	8-2	8-4	8-6	8-9	8-11	9-1	9-3	9-5
400.00	8-10	9-1	9-3	9-6	9-9	9-11	10-1	10-4	10-6	10-8
425.00	10-0	10-3	10-6	10-9	11-0	11-2	11-5	11-8	11-10	12-1
450.00	11-2	11-6	11-9	12-0	12-4	12-7	12-10	13-1	13-4	13-7
475.00	12-6	12-10	13-1	13-5	13-8	14-0	14-3	14-7	14-10	15-1
500.00	13-10	14-2	14-6	14-10	15-2	15-6	15-10	16-2	16-5	16-9
525.00	15-3	15-8	16-0	16-5	16-9	17-1	17-5	17-9	18-1	18-5
550.00	16-9	17-2	17-7	18-0	18-5	18-9	19-2	19-6	19-11	20-3
575.00	18-4	18-9	19-3	19-8	20-1	20-6	20-11	21-4	21-9	22-2
600.00	19-11	20-5	20-11	21-5	21-10	22-4	22-10	23-3	23-8	24-1
625.00	21-8	22-2	22-8	23-3	23-9	24-3	24-9	25-3	25-8	26-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.152

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.179	0.63	2339	0.49	3000*
20	0	0	0	0.785	0.26	3791	0.22	4370
30	0	0	0	0.785	0.31	3177	0.25	3857
40	0	0	0	0.785	0.38	2594	0.29	3342
50	0	0	0	0.785	0.47	2066	0.35	2831
60	0	0	0	0.785	0.6	1627	0.42	2340
70	0	0	0	0.785	0.76	1298	0.52	1891
80	0	0	0	0.785	0.92	1070	0.65	1516
90	0	0	0	0.785	1.05	937	0.8	1232
100	0	0	0	0.785	1.12	878	0.95	1030
110	0	0	0	0.785	1.19	826	1.11	888
120	0	0	0	0.785	1.26	779	1.25	785
130	0	0	0	0.785	1.34	731	1.34	731
167	0	0	0	0.785	1.6	613	1.6	613
212	0	0	0	0.785	1.9	518	1.9	518

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.179	2.31	2550	1.97	3000*
20	0	0	0	0.785	1.28	3056	1.06	3712
30	0	0	0	0.785	1.49	2628	1.2	3276
40	0	0	0	0.785	1.73	2270	1.37	2870
50	0	0	0	0.785	1.98	1982	1.57	2507
60	0	0	0	0.785	2.24	1755	1.79	2196
70	0	0	0	0.785	2.49	1575	2.03	1938
80	0	0	0	0.785	2.74	1433	2.27	1729
90	0	0	0	0.785	2.98	1318	2.52	1561
100	0	0	0	0.785	3.21	1224	2.76	1425
110	0	0	0	0.785	3.36	1169	2.99	1314
120	0	0	0	0.785	3.48	1131	3.21	1223
130	0	0	0	0.785	3.59	1095	3.43	1146
167	0	0	0	0.785	4.01	979	4.01	979
212	0	0	0	0.785	4.49	876	4.49	876

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.153

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Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.179	4.92	2696	4.42	3000*
20	0	0	0	0.785	3.49	2535	2.94	3000
30	0	0	0	0.785	3.82	2312	3.24	2725
40	0	0	0	0.785	4.16	2126	3.55	2487
50	0	0	0	0.785	4.49	1970	3.87	2284
60	0	0	0	0.785	4.81	1838	4.19	2111
70	0	0	0	0.785	5.12	1727	4.5	1963
80	0	0	0	0.785	5.42	1631	4.81	1837
90	0	0	0	0.785	5.72	1547	5.11	1729
100	0	0	0	0.785	6	1474	5.41	1635
110	0	0	0	0.785	6.27	1410	5.7	1553
120	0	0	0	0.785	6.5	1362	5.97	1481
130	0	0	0	0.785	6.64	1332	6.24	1417
167	0	0	0	0.785	7.18	1233	7.18	1233
212	0	0	0	0.785	7.8	1135	7.8	1135

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.179	8.47	2788	7.87	3000*
20	0	0	0	0.785	6.85	2296	6.12	2566
30	0	0	0	0.785	7.23	2174	6.5	2417
40	0	0	0	0.785	7.61	2067	6.88	2286
50	0	0	0	0.785	7.97	1973	7.24	2170
60	0	0	0	0.785	8.33	1889	7.6	2067
70	0	0	0	0.785	8.67	1814	7.96	1976
80	0	0	0	0.785	9.01	1746	8.3	1894
90	0	0	0	0.785	9.34	1685	8.64	1820
100	0	0	0	0.785	9.66	1630	8.97	1754
110	0	0	0	0.785	9.97	1579	9.29	1693
120	0	0	0	0.785	10.27	1532	9.61	1638
130	0	0	0	0.785	10.53	1495	9.92	1587
167	0	0	0	0.785	11.15	1413	11	1432
212	0	0	0	0.785	11.89	1325	11.89	1325

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.179	12.97	2847	12.31	3000*
20	0	0	0	0.785	11.26	2184	10.46	2350
30	0	0	0	0.785	11.66	2109	10.86	2263
40	0	0	0	0.785	12.05	2041	11.26	2183
50	0	0	0	0.785	12.43	1978	11.65	2111
60	0	0	0	0.785	12.81	1920	12.03	2044
70	0	0	0	0.785	13.18	1867	12.4	1983
80	0	0	0	0.785	13.54	1818	12.77	1926
90	0	0	0	0.785	13.89	1772	13.13	1874
100	0	0	0	0.785	14.23	1729	13.48	1825
110	0	0	0	0.785	14.57	1689	13.83	1780
120	0	0	0	0.785	14.9	1652	14.17	1737
130	0	0	0	0.785	15.23	1617	14.5	1698
167	0	0	0	0.785	15.98	1541	15.69	1570
212	0	0	0	0.785	16.82	1465	16.82	1465

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.155

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-3	0-4	0-4	0-5	0-6	0-7
100.00	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10	0-11	1-1
125.00	0-4	0-5	0-6	0-6	0-8	0-10	1-0	1-3	1-6	1-9
150.00	0-6	0-7	0-8	0-9	0-11	1-2	1-5	1-10	2-2	2-6
175.00	0-8	0-9	0-11	1-1	1-3	1-7	2-0	2-5	2-11	3-5
200.00	0-11	1-0	1-2	1-5	1-8	2-1	2-7	3-2	3-10	4-5

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-8
100.00	0-3	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-1	1-2
125.00	0-5	0-6	0-7	0-9	0-11	1-2	1-5	1-8	1-9	1-10
150.00	0-7	0-8	0-10	1-1	1-4	1-8	2-1	2-4	2-6	2-8
175.00	0-10	0-11	1-2	1-5	1-10	2-4	2-10	3-3	3-5	3-8
200.00	1-0	1-3	1-6	1-11	2-5	3-0	3-8	4-2	4-6	4-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.156

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9
125.00	0-5	0-6	0-6	0-7	0-8	0-9	0-11	1-0	1-1	1-2
150.00	0-7	0-8	0-9	0-11	1-0	1-2	1-3	1-5	1-7	1-8
175.00	0-10	0-11	1-1	1-2	1-4	1-7	1-9	1-11	2-1	2-3
200.00	1-1	1-2	1-4	1-7	1-9	2-0	2-3	2-6	2-9	3-0
225.00	1-4	1-6	1-9	2-0	2-3	2-7	2-10	3-2	3-6	3-9
250.00	1-8	1-10	2-2	2-5	2-10	3-2	3-7	3-11	4-4	4-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-10
125.00	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-4
150.00	0-9	0-10	1-0	1-1	1-3	1-5	1-7	1-8	1-10	1-11
175.00	1-0	1-2	1-4	1-6	1-9	1-11	2-1	2-3	2-5	2-7
200.00	1-3	1-6	1-9	2-0	2-3	2-6	2-9	3-0	3-3	3-4
225.00	1-8	1-11	2-2	2-6	2-10	3-2	3-6	3-9	4-1	4-3
250.00	2-0	2-4	2-8	3-1	3-6	3-11	4-3	4-8	5-0	5-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.157

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-5
175.00	1-0	1-1	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11
200.00	1-4	1-5	1-7	1-9	1-10	2-0	2-2	2-3	2-5	2-6
225.00	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-11	3-1	3-2
250.00	2-1	2-3	2-6	2-8	2-11	3-2	3-4	3-7	3-9	3-11
275.00	2-6	2-9	3-0	3-3	3-6	3-9	4-1	4-4	4-7	4-9
300.00	2-11	3-3	3-7	3-10	4-2	4-6	4-10	5-1	5-5	5-8
325.00	3-5	3-10	4-2	4-6	4-11	5-3	5-8	6-0	6-4	6-8
350.00	4-0	4-5	4-10	5-3	5-8	6-2	6-7	7-0	7-4	7-9
375.00	4-7	5-1	5-7	6-1	6-7	7-0	7-6	8-0	8-5	8-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
175.00	1-2	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-2
200.00	1-7	1-8	1-10	2-0	2-2	2-3	2-5	2-6	2-8	2-9
225.00	2-0	2-2	2-4	2-6	2-8	2-11	3-1	3-3	3-4	3-6
250.00	2-5	2-8	2-11	3-1	3-4	3-7	3-9	4-0	4-2	4-4
275.00	2-11	3-3	3-6	3-9	4-0	4-4	4-7	4-10	5-0	5-3
300.00	3-6	3-10	4-2	4-6	4-10	5-1	5-5	5-9	6-0	6-3
325.00	4-1	4-6	4-11	5-3	5-8	6-0	6-4	6-9	7-0	7-4
350.00	4-9	5-2	5-8	6-1	6-7	7-0	7-5	7-9	8-2	8-6
375.00	5-5	6-0	6-6	7-0	7-6	8-0	8-6	8-11	9-5	9-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.158

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
225.00	1-11	2-1	2-2	2-3	2-5	2-6	2-8	2-9	2-10	2-11
250.00	2-5	2-6	2-8	2-10	3-0	3-1	3-3	3-4	3-6	3-8
275.00	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-5
300.00	3-5	3-8	3-10	4-1	4-3	4-6	4-8	4-10	5-1	5-3
325.00	4-1	4-4	4-6	4-9	5-0	5-3	5-6	5-8	5-11	6-2
350.00	4-8	5-0	5-3	5-7	5-10	6-1	6-4	6-7	6-10	7-1
375.00	5-5	5-9	6-1	6-4	6-8	7-0	7-4	7-7	7-11	8-2
400.00	6-1	6-6	6-11	7-3	7-7	7-11	8-4	8-8	9-0	9-4
425.00	6-11	7-4	7-9	8-2	8-7	9-0	9-4	9-9	10-2	10-6
450.00	7-9	8-3	8-8	9-2	9-8	10-1	10-6	10-11	11-4	11-9
475.00	8-8	9-2	9-8	10-3	10-9	11-3	11-9	12-2	12-8	13-1
500.00	9-7	10-2	10-9	11-4	11-11	12-5	13-0	13-6	14-0	14-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6
225.00	2-2	2-3	2-5	2-6	2-8	2-9	2-10	2-11	3-1	3-2
250.00	2-8	2-10	3-0	3-1	3-3	3-5	3-6	3-8	3-9	3-11
275.00	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-7	4-9
300.00	3-10	4-1	4-3	4-6	4-8	4-11	5-1	5-3	5-5	5-7
325.00	4-6	4-9	5-0	5-3	5-6	5-9	5-11	6-2	6-4	6-7
350.00	5-3	5-6	5-10	6-1	6-4	6-8	6-11	7-2	7-5	7-8
375.00	6-0	6-4	6-8	7-0	7-4	7-7	7-11	8-2	8-6	8-9
400.00	6-10	7-3	7-7	8-0	8-4	8-8	9-0	9-4	9-8	10-0
425.00	7-9	8-2	8-7	9-0	9-5	9-9	10-2	10-6	10-11	11-3
450.00	8-8	9-2	9-8	10-1	10-6	11-0	11-5	11-10	12-3	12-7
475.00	9-8	10-2	10-9	11-3	11-9	12-3	12-8	13-2	13-7	14-1
500.00	10-8	11-4	11-11	12-5	13-0	13-7	14-1	14-7	15-1	15-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.159

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-7	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5
275.00	3-2	3-3	3-5	3-6	3-8	3-9	3-10	4-0	4-1	4-2
300.00	3-9	3-11	4-1	4-2	4-4	4-6	4-7	4-9	4-10	5-0
325.00	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-8	5-10
350.00	5-1	5-4	5-6	5-8	5-11	6-1	6-3	6-5	6-7	6-9
375.00	5-11	6-1	6-4	6-7	6-9	7-0	7-2	7-5	7-7	7-9
400.00	6-8	6-11	7-2	7-5	7-8	7-11	8-2	8-5	8-7	8-10
425.00	7-7	7-10	8-2	8-5	8-8	8-11	9-3	9-6	9-9	10-0
450.00	8-6	8-10	9-1	9-5	9-9	10-1	10-4	10-8	10-11	11-2
475.00	9-5	9-10	10-2	10-6	10-10	11-2	11-6	11-10	12-2	12-6
500.00	10-6	10-10	11-3	11-8	12-0	12-5	12-9	13-2	13-6	13-10
525.00	11-6	12-0	12-5	12-10	13-3	13-8	14-1	14-6	14-10	15-3
550.00	12-8	13-2	13-7	14-1	14-7	15-0	15-5	15-11	16-4	16-9
575.00	13-10	14-4	14-11	15-5	15-11	16-5	16-11	17-4	17-10	18-3
600.00	15-1	15-8	16-3	16-9	17-4	17-10	18-5	18-11	19-5	19-11
625.00	16-4	17-0	17-7	18-2	18-10	19-5	20-0	20-6	21-1	21-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-10	2-11	3-0	3-1	3-2	3-3	3-5	3-6	3-7	3-8
275.00	3-5	3-6	3-8	3-9	3-10	4-0	4-1	4-2	4-4	4-5
300.00	4-1	4-2	4-4	4-6	4-7	4-9	4-10	5-0	5-1	5-3
325.00	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-10	6-0	6-2
350.00	5-6	5-9	5-11	6-1	6-3	6-5	6-8	6-10	7-0	7-2
375.00	6-4	6-7	6-9	7-0	7-2	7-5	7-7	7-10	8-0	8-2
400.00	7-2	7-6	7-9	7-11	8-2	8-5	8-8	8-11	9-1	9-4
425.00	8-2	8-5	8-8	9-0	9-3	9-6	9-9	10-0	10-3	10-6
450.00	9-1	9-5	9-9	10-1	10-4	10-8	11-0	11-3	11-6	11-10
475.00	10-2	10-6	10-10	11-3	11-7	11-11	12-3	12-6	12-10	13-2
500.00	11-3	11-8	12-1	12-5	12-10	13-2	13-6	13-11	14-3	14-7
525.00	12-5	12-10	13-3	13-9	14-1	14-6	14-11	15-4	15-8	16-1
550.00	13-7	14-1	14-7	15-1	15-6	15-11	16-5	16-10	17-3	17-8
575.00	14-11	15-5	15-11	16-5	16-11	17-5	17-11	18-4	18-10	19-3
600.00	16-3	16-10	17-4	17-11	18-5	19-0	19-6	20-0	20-6	21-0
625.00	17-7	18-3	18-10	19-5	20-0	20-7	21-2	21-9	22-3	22-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.160

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.179	1.47	1000	1.47	1000*
0	0	0	0	0.785	1.11	886	1.11	886
30	0	0	0	0.785	1.54	639	1.53	642
40	0	0	0	0.785	1.66	593	1.65	596
50	0	0	0	0.785	1.77	555	1.76	558
60	0	0	0	0.785	1.88	523	1.87	526
70	0	0	0	0.785	1.98	496	1.97	499
80	0	0	0	0.785	2.08	472	2.07	475
90	0	0	0	0.785	2.17	452	2.16	454
100	0	0	0	0.785	2.23	441	2.23	441
110	0	0	0	0.785	2.29	430	2.29	430
120	0	0	0	0.785	2.34	420	2.34	420
130	0	0	0	0.785	2.39	411	2.39	411
167	0	0	0	0.785	2.58	381	2.58	381
212	0	0	0	0.785	2.8	352	2.8	352

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.179	5.93	998	5.91	1000*
0	0	0	0	0.785	5.54	710	5.52	713
30	0	0	0	0.785	5.99	657	5.97	659
40	0	0	0	0.785	6.13	643	6.11	645
50	0	0	0	0.785	6.26	629	6.24	632
60	0	0	0	0.785	6.39	617	6.37	619
70	0	0	0	0.785	6.52	605	6.49	607
80	0	0	0	0.785	6.64	594	6.61	596
90	0	0	0	0.785	6.76	583	6.74	585
100	0	0	0	0.785	6.88	573	6.86	575
110	0	0	0	0.785	6.95	567	6.95	567
120	0	0	0	0.785	7.03	561	7.03	561
130	0	0	0	0.785	7.1	556	7.1	556
167	0	0	0	0.785	7.37	536	7.37	536
212	0	0	0	0.785	7.68	514	7.68	514

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.161

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.179	13.39	999	13.37	1000*
0	0	0	0	0.785	13	684	12.97	686
30	0	0	0	0.785	13.45	662	13.43	663
40	0	0	0	0.785	13.59	655	13.56	656
50	0	0	0	0.785	13.73	649	13.7	650
60	0	0	0	0.785	13.86	643	13.83	644
70	0	0	0	0.785	14	636	13.96	638
80	0	0	0	0.785	14.13	631	14.1	632
90	0	0	0	0.785	14.26	625	14.23	626
100	0	0	0	0.785	14.39	619	14.36	621
110	0	0	0	0.785	14.48	616	14.48	616
120	0	0	0	0.785	14.56	612	14.56	612
130	0	0	0	0.785	14.64	609	14.64	609
167	0	0	0	0.785	14.94	597	14.94	597
212	0	0	0	0.785	15.3	583	15.3	583

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.179	23.93	999	23.91	1000*
0	0	0	0	0.785	23.55	676	23.51	677
30	0	0	0	0.785	24	664	23.97	664
40	0	0	0	0.785	24.14	660	24.11	661
50	0	0	0	0.785	24.28	656	24.25	657
60	0	0	0	0.785	24.42	653	24.38	653
70	0	0	0	0.785	24.55	649	24.52	650
80	0	0	0	0.785	24.69	646	24.65	647
90	0	0	0	0.785	24.82	642	24.79	643
100	0	0	0	0.785	24.96	639	24.92	640
110	0	0	0	0.785	25.06	636	25.05	637
120	0	0	0	0.785	25.15	634	25.15	634
130	0	0	0	0.785	25.23	632	25.23	632
167	0	0	0	0.785	25.55	625	25.55	625
212	0	0	0	0.785	25.92	616	25.92	616

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.162

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.179	37.7	999	37.67	1000*
0	0	0	0	0.785	37.32	672	37.28	673
30	0	0	0	0.785	37.76	664	37.73	665
40	0	0	0	0.785	37.9	662	37.87	663
50	0	0	0	0.785	38.04	660	38.01	660
60	0	0	0	0.785	38.18	658	38.15	658
70	0	0	0	0.785	38.32	655	38.28	656
80	0	0	0	0.785	38.46	653	38.42	654
90	0	0	0	0.785	38.59	651	38.56	651
100	0	0	0	0.785	38.73	649	38.69	649
110	0	0	0	0.785	38.84	647	38.83	647
120	0	0	0	0.785	38.92	646	38.92	646
130	0	0	0	0.785	39.01	644	39.01	644
167	0	0	0	0.785	39.33	639	39.33	639
212	0	0	0	0.785	39.72	633	39.72	633

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.163

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-3
100.00	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-2	2-3	2-3
125.00	2-2	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-6	3-7
150.00	3-2	3-5	3-9	4-0	4-2	4-5	4-8	4-10	5-0	5-2
175.00	4-4	4-8	5-1	5-5	5-9	6-1	6-4	6-8	6-10	7-0
200.00	5-7	6-1	6-7	7-1	7-6	7-11	8-3	8-8	8-11	9-2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-3
100.00	1-5	1-6	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-3
125.00	2-2	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-6	3-7
150.00	3-2	3-6	3-9	4-0	4-3	4-6	4-8	4-11	5-0	5-2
175.00	4-4	4-9	5-1	5-5	5-9	6-1	6-5	6-8	6-10	7-0
200.00	5-8	6-2	6-8	7-1	7-6	7-11	8-4	8-8	8-11	9-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.164

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-6	1-6	1-7	1-7	1-7	1-8	1-8	1-9	1-9
125.00	2-3	2-4	2-5	2-5	2-6	2-6	2-7	2-8	2-8	2-9
150.00	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-9	3-10	3-11
175.00	4-6	4-7	4-8	4-9	4-10	5-0	5-1	5-2	5-3	5-4
200.00	5-10	6-0	6-1	6-3	6-4	6-6	6-7	6-9	6-10	6-11
225.00	7-5	7-7	7-9	7-11	8-1	8-3	8-4	8-6	8-8	8-10
250.00	9-2	9-4	9-7	9-9	9-11	10-2	10-4	10-6	10-9	10-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-6	1-6	1-7	1-7	1-8	1-8	1-8	1-9	1-9
125.00	2-3	2-4	2-5	2-5	2-6	2-7	2-7	2-8	2-8	2-9
150.00	3-4	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-10	3-11
175.00	4-6	4-7	4-8	4-9	4-11	5-0	5-1	5-2	5-3	5-4
200.00	5-10	6-0	6-2	6-3	6-5	6-6	6-8	6-9	6-11	6-11
225.00	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-7	8-8	8-10
250.00	9-2	9-4	9-7	9-9	10-0	10-2	10-5	10-7	10-9	10-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.165

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-7	3-7	3-7
175.00	4-6	4-7	4-7	4-8	4-8	4-9	4-9	4-10	4-11	4-11
200.00	5-11	6-0	6-0	6-1	6-2	6-2	6-3	6-4	6-4	6-5
225.00	7-6	7-7	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2
250.00	9-3	9-4	9-5	9-6	9-7	9-8	9-9	9-10	10-0	10-1
275.00	11-2	11-3	11-5	11-6	11-7	11-9	11-10	11-11	12-1	12-2
300.00	13-3	13-5	13-7	13-8	13-10	14-0	14-1	14-3	14-4	14-6
325.00	15-7	15-9	15-11	16-1	16-3	16-5	16-7	16-8	16-10	17-0
350.00	18-1	18-4	18-6	18-8	18-10	19-0	19-2	19-5	19-7	19-9
375.00	20-10	21-0	21-3	21-5	21-8	21-10	22-1	22-3	22-6	22-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-7	3-7	3-7
175.00	4-6	4-7	4-7	4-8	4-8	4-9	4-10	4-10	4-11	4-11
200.00	5-11	6-0	6-0	6-1	6-2	6-3	6-3	6-4	6-5	6-5
225.00	7-6	7-7	7-8	7-9	7-9	7-10	7-11	8-0	8-1	8-2
250.00	9-3	9-4	9-5	9-6	9-7	9-9	9-10	9-11	10-0	10-1
275.00	11-2	11-4	11-5	11-6	11-8	11-9	11-10	12-0	12-1	12-2
300.00	13-4	13-5	13-7	13-9	13-10	14-0	14-2	14-3	14-5	14-6
325.00	15-8	15-10	15-11	16-1	16-3	16-5	16-7	16-9	16-11	17-0
350.00	18-2	18-4	18-6	18-8	18-11	19-1	19-3	19-5	19-7	19-9
375.00	20-10	21-1	21-3	21-6	21-8	21-11	22-1	22-4	22-6	22-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.166

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-11	6-0	6-0	6-0	6-1	6-1	6-2	6-2	6-2	6-3
225.00	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-11
250.00	9-3	9-4	9-5	9-5	9-6	9-7	9-7	9-8	9-8	9-9
275.00	11-3	11-4	11-4	11-5	11-6	11-7	11-7	11-8	11-9	11-10
300.00	13-5	13-5	13-6	13-7	13-8	13-9	13-10	13-11	14-0	14-1
325.00	15-9	15-10	15-11	16-0	16-1	16-2	16-3	16-4	16-5	16-6
350.00	18-3	18-4	18-5	18-7	18-8	18-9	18-10	18-11	19-1	19-2
375.00	20-11	21-1	21-2	21-4	21-5	21-6	21-8	21-9	21-11	22-0
400.00	23-10	24-0	24-1	24-3	24-5	24-6	24-8	24-9	24-11	25-1
425.00	26-11	27-1	27-3	27-5	27-7	27-8	27-10	28-0	28-2	28-4
450.00	30-2	30-5	30-7	30-9	30-11	31-1	31-3	31-5	31-7	31-9
475.00	33-8	33-10	34-1	34-3	34-5	34-8	34-10	35-0	35-3	35-5
500.00	37-4	37-7	37-9	38-0	38-2	38-5	38-8	38-10	39-1	39-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-11	6-0	6-0	6-1	6-1	6-1	6-2	6-2	6-3	6-3
225.00	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-11
250.00	9-4	9-4	9-5	9-5	9-6	9-7	9-7	9-8	9-9	9-9
275.00	11-3	11-4	11-5	11-5	11-6	11-7	11-8	11-8	11-9	11-10
300.00	13-5	13-6	13-7	13-8	13-8	13-9	13-10	13-11	14-0	14-1
325.00	15-9	15-10	15-11	16-0	16-1	16-2	16-3	16-4	16-5	16-6
350.00	18-3	18-4	18-6	18-7	18-8	18-9	18-11	19-0	19-1	19-2
375.00	21-0	21-1	21-2	21-4	21-5	21-7	21-8	21-10	21-11	22-0
400.00	23-10	24-0	24-2	24-3	24-5	24-7	24-8	24-10	24-11	25-1
425.00	26-11	27-1	27-3	27-5	27-7	27-9	27-11	28-0	28-2	28-4
450.00	30-3	30-5	30-7	30-9	30-11	31-1	31-3	31-6	31-8	31-9
475.00	33-9	33-11	34-1	34-4	34-6	34-8	34-11	35-1	35-3	35-5
500.00	37-5	37-7	37-10	38-0	38-3	38-6	38-8	38-11	39-1	39-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.167

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-4	9-5	9-5	9-5	9-6	9-6	9-7	9-7	9-7	9-8
275.00	11-4	11-4	11-5	11-5	11-6	11-6	11-7	11-7	11-8	11-8
300.00	13-6	13-6	13-7	13-7	13-8	13-9	13-9	13-10	13-10	13-11
325.00	15-10	15-10	15-11	16-0	16-1	16-1	16-2	16-3	16-3	16-4
350.00	18-4	18-5	18-6	18-7	18-7	18-8	18-9	18-10	18-11	18-11
375.00	21-1	21-2	21-3	21-4	21-5	21-6	21-6	21-7	21-8	21-9
400.00	24-0	24-1	24-2	24-3	24-4	24-5	24-6	24-7	24-8	24-9
425.00	27-1	27-2	27-4	27-5	27-6	27-7	27-8	27-10	27-11	28-0
450.00	30-5	30-6	30-8	30-9	30-10	31-0	31-1	31-2	31-4	31-5
475.00	33-11	34-0	34-2	34-3	34-5	34-6	34-8	34-9	34-11	35-0
500.00	37-7	37-9	37-10	38-0	38-2	38-3	38-5	38-7	38-8	38-10
525.00	41-6	41-8	41-9	41-11	42-1	42-3	42-5	42-6	42-8	42-10
550.00	45-7	45-9	45-11	46-1	46-3	46-5	46-7	46-9	46-11	47-1
575.00	49-10	50-0	50-2	50-5	50-7	50-9	50-11	51-1	51-4	51-6
600.00	54-4	54-6	54-9	54-11	55-1	55-4	55-6	55-9	55-11	56-1
625.00	59-0	59-2	59-5	59-8	59-10	60-1	60-4	60-6	60-9	60-11

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-4	9-5	9-5	9-5	9-6	9-6	9-7	9-7	9-8	9-8
275.00	11-4	11-4	11-5	11-5	11-6	11-6	11-7	11-7	11-8	11-8
300.00	13-6	13-6	13-7	13-8	13-8	13-9	13-9	13-10	13-10	13-11
325.00	15-10	15-11	15-11	16-0	16-1	16-1	16-2	16-3	16-3	16-4
350.00	18-4	18-5	18-6	18-7	18-8	18-8	18-9	18-10	18-11	18-11
375.00	21-1	21-2	21-3	21-4	21-5	21-6	21-7	21-8	21-9	21-9
400.00	24-0	24-1	24-2	24-3	24-4	24-5	24-7	24-8	24-9	24-9
425.00	27-2	27-3	27-4	27-5	27-6	27-8	27-9	27-10	27-11	28-0
450.00	30-5	30-7	30-8	30-9	30-11	31-0	31-1	31-3	31-4	31-5
475.00	33-11	34-1	34-2	34-4	34-5	34-7	34-8	34-10	34-11	35-0
500.00	37-8	37-9	37-11	38-1	38-2	38-4	38-5	38-7	38-9	38-10
525.00	41-6	41-8	41-10	42-0	42-2	42-3	42-5	42-7	42-9	42-10
550.00	45-7	45-9	45-11	46-1	46-3	46-5	46-7	46-9	46-11	47-1
575.00	49-11	50-1	50-3	50-5	50-7	50-10	51-0	51-2	51-4	51-6
600.00	54-4	54-7	54-9	55-0	55-2	55-4	55-7	55-9	56-0	56-1
625.00	59-0	59-3	59-6	59-8	59-11	60-2	60-4	60-7	60-9	60-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.168

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.179	1	1478	0.98	1500*
0	0	0	0	0.785	0.57	1728	0.56	1738
30	0	0	0	0.785	1.04	947	1.01	976
40	0	0	0	0.785	1.19	826	1.16	850
50	0	0	0	0.785	1.33	738	1.3	757
60	0	0	0	0.785	1.46	671	1.43	687
70	0	0	0	0.785	1.59	618	1.55	632
80	0	0	0	0.785	1.71	576	1.67	587
90	0	0	0	0.785	1.82	540	1.78	550
100	0	0	0	0.785	1.89	519	1.89	520
110	0	0	0	0.785	1.95	503	1.95	503
120	0	0	0	0.785	2.01	488	2.01	488
130	0	0	0	0.785	2.07	474	2.07	474
167	0	0	0	0.785	2.28	431	2.28	431
212	0	0	0	0.785	2.52	390	2.52	390

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.179	4.01	1473	3.94	1500*
0	0	0	0	0.785	3.45	1139	3.36	1169
30	0	0	0	0.785	4.06	969	3.96	992
40	0	0	0	0.785	4.24	926	4.15	947
50	0	0	0	0.785	4.42	889	4.33	908
60	0	0	0	0.785	4.6	855	4.51	873
70	0	0	0	0.785	4.77	825	4.68	841
80	0	0	0	0.785	4.93	798	4.84	813
90	0	0	0	0.785	5.09	773	5	787
100	0	0	0	0.785	5.25	750	5.16	763
110	0	0	0	0.785	5.36	734	5.31	742
120	0	0	0	0.785	5.45	722	5.45	722
130	0	0	0	0.785	5.54	710	5.54	710
167	0	0	0	0.785	5.87	671	5.87	671
212	0	0	0	0.785	6.24	631	6.24	631

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.169

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.179	8.97	1483	8.87	1500*
0	0	0	0	0.785	8.4	1055	8.28	1069
30	0	0	0	0.785	9.02	982	8.9	996
40	0	0	0	0.785	9.22	961	9.1	974
50	0	0	0	0.785	9.41	942	9.29	954
60	0	0	0	0.785	9.61	923	9.48	935
70	0	0	0	0.785	9.79	906	9.67	917
80	0	0	0	0.785	9.98	889	9.86	900
90	0	0	0	0.785	10.16	873	10.04	884
100	0	0	0	0.785	10.34	858	10.22	868
110	0	0	0	0.785	10.51	844	10.39	854
120	0	0	0	0.785	10.62	836	10.56	840
130	0	0	0	0.785	10.73	827	10.73	827
167	0	0	0	0.785	11.12	798	11.12	798
212	0	0	0	0.785	11.58	767	11.58	767

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.179	15.93	1490	15.81	1500*
0	0	0	0	0.785	15.35	1029	15.22	1037
30	0	0	0	0.785	15.98	989	15.84	997
40	0	0	0	0.785	16.18	977	16.05	985
50	0	0	0	0.785	16.38	965	16.25	973
60	0	0	0	0.785	16.58	953	16.44	961
70	0	0	0	0.785	16.78	942	16.64	950
80	0	0	0	0.785	16.97	932	16.83	939
90	0	0	0	0.785	17.16	921	17.03	929
100	0	0	0	0.785	17.35	912	17.22	919
110	0	0	0	0.785	17.54	902	17.4	909
120	0	0	0	0.785	17.68	895	17.59	899
130	0	0	0	0.785	17.8	889	17.77	890
167	0	0	0	0.785	18.24	868	18.24	868
212	0	0	0	0.785	18.75	845	18.75	845

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.170

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Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.179	24.92	1493	24.8	1500*
0	0	0	0	0.785	24.34	1017	24.21	1023
30	0	0	0	0.785	24.97	992	24.83	998
40	0	0	0	0.785	25.17	984	25.03	990
50	0	0	0	0.785	25.38	977	25.24	982
60	0	0	0	0.785	25.58	969	25.44	974
70	0	0	0	0.785	25.78	962	25.64	967
80	0	0	0	0.785	25.98	954	25.84	960
90	0	0	0	0.785	26.18	947	26.03	953
100	0	0	0	0.785	26.38	940	26.23	946
110	0	0	0	0.785	26.57	934	26.42	939
120	0	0	0	0.785	26.74	928	26.62	932
130	0	0	0	0.785	26.86	924	26.81	926
167	0	0	0	0.785	27.32	909	27.32	909
212	0	0	0	0.785	27.86	891	27.86	891

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.171

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-1
100.00	0-10	1-0	1-2	1-4	1-5	1-7	1-8	1-9	1-11	1-11
125.00	1-4	1-7	1-10	2-0	2-3	2-5	2-7	2-9	2-11	3-1
150.00	1-11	2-3	2-7	2-11	3-3	3-6	3-9	4-0	4-3	4-5
175.00	2-7	3-1	3-6	4-0	4-5	4-9	5-2	5-6	5-10	6-0
200.00	3-5	4-0	4-7	5-2	5-9	6-3	6-8	7-2	7-7	7-10

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-1
100.00	0-11	1-0	1-2	1-4	1-6	1-7	1-8	1-10	1-11	1-11
125.00	1-4	1-7	1-10	2-1	2-3	2-6	2-8	2-10	2-11	3-1
150.00	2-0	2-4	2-8	3-0	3-4	3-7	3-10	4-1	4-3	4-5
175.00	2-8	3-2	3-8	4-1	4-6	4-10	5-3	5-7	5-10	6-0
200.00	3-6	4-2	4-9	5-4	5-10	6-4	6-10	7-3	7-7	7-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.172

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-3	1-3	1-4
125.00	1-6	1-7	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-1
150.00	2-1	2-3	2-4	2-5	2-6	2-8	2-9	2-10	2-11	3-0
175.00	2-11	3-0	3-2	3-4	3-5	3-7	3-8	3-10	3-11	4-1
200.00	3-9	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-2	5-4
225.00	4-9	5-0	5-3	5-6	5-8	5-11	6-2	6-4	6-6	6-9
250.00	5-11	6-2	6-6	6-9	7-1	7-4	7-7	7-10	8-1	8-4

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4
125.00	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-1	2-1
150.00	2-2	2-3	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0
175.00	2-11	3-1	3-3	3-5	3-6	3-8	3-9	3-11	4-0	4-1
200.00	3-10	4-1	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-4
225.00	4-11	5-2	5-4	5-7	5-10	6-0	6-3	6-5	6-8	6-9
250.00	6-0	6-4	6-8	6-11	7-2	7-5	7-9	8-0	8-2	8-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.173

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-3	2-3	2-4	2-4	2-5	2-6	2-6	2-7	2-7
175.00	2-11	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-6
200.00	3-10	3-11	4-0	4-2	4-3	4-4	4-5	4-5	4-6	4-7
225.00	4-11	5-0	5-1	5-3	5-4	5-5	5-6	5-8	5-9	5-10
250.00	6-0	6-2	6-4	6-5	6-7	6-9	6-10	7-0	7-1	7-3
275.00	7-4	7-6	7-8	7-10	8-0	8-2	8-3	8-5	8-7	8-9
300.00	8-8	8-11	9-1	9-4	9-6	9-8	9-10	10-0	10-3	10-5
325.00	10-3	10-5	10-8	10-11	11-2	11-4	11-7	11-9	12-0	12-2
350.00	11-10	12-1	12-5	12-8	12-11	13-2	13-5	13-8	13-11	14-2
375.00	13-7	13-11	14-3	14-6	14-10	15-1	15-5	15-8	16-0	16-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-7	2-7
175.00	3-0	3-1	3-2	3-2	3-3	3-4	3-5	3-5	3-6	3-7
200.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
225.00	4-11	5-1	5-2	5-4	5-5	5-6	5-7	5-9	5-10	5-11
250.00	6-1	6-3	6-5	6-6	6-8	6-10	6-11	7-1	7-2	7-4
275.00	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-6	8-8	8-10
300.00	8-10	9-0	9-3	9-5	9-7	9-10	10-0	10-2	10-4	10-6
325.00	10-4	10-7	10-10	11-1	11-3	11-6	11-9	11-11	12-2	12-4
350.00	12-0	12-3	12-7	12-10	13-1	13-4	13-7	13-10	14-1	14-4
375.00	13-9	14-1	14-5	14-9	15-0	15-4	15-7	15-11	16-2	16-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.174

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-11	3-11	4-0	4-1	4-1	4-2	4-2	4-3	4-4	4-4
225.00	4-11	5-0	5-1	5-2	5-2	5-3	5-4	5-5	5-5	5-6
250.00	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-9
275.00	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-2	8-3
300.00	8-9	8-11	9-0	9-2	9-3	9-4	9-6	9-7	9-8	9-9
325.00	10-4	10-5	10-7	10-9	10-10	11-0	11-1	11-3	11-4	11-6
350.00	12-0	12-2	12-3	12-5	12-7	12-9	12-11	13-0	13-2	13-4
375.00	13-9	13-11	14-1	14-3	14-5	14-7	14-9	15-0	15-2	15-3
400.00	15-8	15-10	16-1	16-3	16-5	16-8	16-10	17-0	17-3	17-5
425.00	17-8	17-11	18-1	18-4	18-7	18-9	19-0	19-3	19-5	19-8
450.00	19-10	20-1	20-4	20-7	20-10	21-1	21-4	21-7	21-10	22-0
475.00	22-1	22-4	22-8	22-11	23-3	23-6	23-9	24-0	24-4	24-7
500.00	24-6	24-9	25-1	25-5	25-9	26-0	26-4	26-8	26-11	27-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-3	4-4	4-5
225.00	5-0	5-1	5-1	5-2	5-3	5-4	5-4	5-5	5-6	5-6
250.00	6-2	6-3	6-4	6-5	6-6	6-7	6-7	6-8	6-9	6-10
275.00	7-5	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3
300.00	8-10	9-0	9-1	9-2	9-4	9-5	9-6	9-8	9-9	9-10
325.00	10-5	10-6	10-8	10-10	10-11	11-1	11-2	11-4	11-5	11-7
350.00	12-1	12-3	12-5	12-6	12-8	12-10	13-0	13-2	13-3	13-5
375.00	13-10	14-0	14-3	14-5	14-7	14-9	14-11	15-1	15-3	15-5
400.00	15-9	16-0	16-2	16-5	16-7	16-9	17-0	17-2	17-4	17-7
425.00	17-10	18-0	18-3	18-6	18-9	18-11	19-2	19-5	19-7	19-10
450.00	20-0	20-3	20-6	20-9	21-0	21-3	21-6	21-9	22-0	22-3
475.00	22-3	22-7	22-10	23-1	23-5	23-8	23-11	24-3	24-6	24-9
500.00	24-8	25-0	25-4	25-8	25-11	26-3	26-7	26-10	27-2	27-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.175

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-2	6-2	6-3	6-4	6-4	6-5	6-5	6-6	6-6	6-7
275.00	7-5	7-6	7-7	7-7	7-8	7-9	7-10	7-10	7-11	8-0
300.00	8-10	8-11	9-0	9-1	9-2	9-3	9-3	9-4	9-5	9-6
325.00	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2
350.00	12-1	12-2	12-3	12-4	12-5	12-6	12-8	12-9	12-10	12-11
375.00	13-10	13-11	14-1	14-2	14-3	14-5	14-6	14-7	14-9	14-10
400.00	15-9	15-10	16-0	16-2	16-3	16-5	16-6	16-8	16-9	16-11
425.00	17-9	17-11	18-1	18-3	18-4	18-6	18-8	18-9	18-11	19-1
450.00	19-11	20-1	20-3	20-5	20-7	20-9	20-11	21-1	21-3	21-5
475.00	22-3	22-5	22-7	22-9	22-11	23-2	23-4	23-6	23-8	23-10
500.00	24-7	24-10	25-0	25-3	25-5	25-8	25-10	26-0	26-3	26-5
525.00	27-2	27-5	27-7	27-10	28-1	28-3	28-6	28-9	28-11	29-2
550.00	29-10	30-1	30-4	30-7	30-10	31-1	31-3	31-6	31-9	32-0
575.00	32-7	32-10	33-2	33-5	33-8	33-11	34-2	34-6	34-9	35-0
600.00	35-6	35-10	36-1	36-5	36-8	37-0	37-3	37-7	37-10	38-1
625.00	38-7	38-10	39-2	39-6	39-10	40-2	40-5	40-9	41-1	41-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-2	6-3	6-3	6-4	6-5	6-5	6-6	6-6	6-7	6-7
275.00	7-6	7-6	7-7	7-8	7-9	7-9	7-10	7-11	8-0	8-0
300.00	8-11	9-0	9-1	9-1	9-2	9-3	9-4	9-5	9-6	9-7
325.00	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2
350.00	12-1	12-3	12-4	12-5	12-6	12-7	12-8	12-10	12-11	13-0
375.00	13-11	14-0	14-2	14-3	14-4	14-6	14-7	14-8	14-10	14-11
400.00	15-10	16-0	16-1	16-3	16-4	16-6	16-7	16-9	16-10	17-0
425.00	17-10	18-0	18-2	18-4	18-6	18-7	18-9	18-11	19-0	19-2
450.00	20-1	20-3	20-5	20-7	20-8	20-10	21-0	21-2	21-4	21-6
475.00	22-4	22-6	22-9	22-11	23-1	23-3	23-5	23-7	23-10	24-0
500.00	24-9	25-0	25-2	25-5	25-7	25-9	26-0	26-2	26-5	26-7
525.00	27-4	27-6	27-9	28-0	28-3	28-5	28-8	28-10	29-1	29-4
550.00	30-0	30-3	30-6	30-9	31-0	31-3	31-6	31-8	31-11	32-2
575.00	32-9	33-1	33-4	33-7	33-10	34-2	34-5	34-8	34-11	35-2
600.00	35-8	36-0	36-4	36-7	36-11	37-2	37-6	37-9	38-1	38-4
625.00	38-9	39-1	39-5	39-9	40-1	40-4	40-8	41-0	41-4	41-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.176

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.179	0.76	1929	0.74	2000*
0	0	0	0	0.785	0.38	2553	0.38	2575
30	0	0	0	0.785	0.77	1278	0.71	1373
40	0	0	0	0.785	0.93	1056	0.87	1132
50	0	0	0	0.785	1.09	903	1.02	961
60	0	0	0	0.785	1.24	794	1.17	838
70	0	0	0	0.785	1.38	714	1.31	749
80	0	0	0	0.785	1.51	652	1.44	680
90	0	0	0	0.785	1.63	603	1.57	626
100	0	0	0	0.785	1.71	576	1.69	583
110	0	0	0	0.785	1.77	554	1.77	554
120	0	0	0	0.785	1.84	535	1.84	535
130	0	0	0	0.785	1.9	517	1.9	517
167	0	0	0	0.785	2.12	463	2.12	463
212	0	0	0	0.785	2.37	415	2.37	415

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.179	3.08	1914	2.95	2000*
0	0	0	0	0.785	2.36	1666	2.2	1786
30	0	0	0	0.785	3.09	1272	2.92	1348
40	0	0	0	0.785	3.31	1186	3.14	1251
50	0	0	0	0.785	3.53	1113	3.36	1170
60	0	0	0	0.785	3.74	1052	3.57	1102
70	0	0	0	0.785	3.94	999	3.77	1043
80	0	0	0	0.785	4.13	953	3.96	992
90	0	0	0	0.785	4.31	912	4.15	947
100	0	0	0	0.785	4.49	876	4.33	908
110	0	0	0	0.785	4.63	850	4.51	873
120	0	0	0	0.785	4.73	832	4.68	841
130	0	0	0	0.785	4.83	814	4.83	814
167	0	0	0	0.785	5.19	759	5.19	759
212	0	0	0	0.785	5.6	703	5.6	703

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.177

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.179	6.84	1943	6.64	2000*
0	0	0	0	0.785	6.05	1462	5.81	1522
30	0	0	0	0.785	6.84	1293	6.61	1340
40	0	0	0	0.785	7.09	1248	6.86	1291
50	0	0	0	0.785	7.34	1207	7.1	1247
60	0	0	0	0.785	7.57	1169	7.34	1206
70	0	0	0	0.785	7.8	1135	7.57	1169
80	0	0	0	0.785	8.03	1103	7.8	1136
90	0	0	0	0.785	8.25	1074	8.02	1104
100	0	0	0	0.785	8.46	1047	8.24	1076
110	0	0	0	0.785	8.67	1022	8.45	1049
120	0	0	0	0.785	8.83	1004	8.66	1024
130	0	0	0	0.785	8.95	990	8.86	1000
167	0	0	0	0.785	9.41	942	9.41	942
212	0	0	0	0.785	9.93	893	9.93	893

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.179	12.06	1962	11.83	2000*
0	0	0	0	0.785	11.25	1400	10.97	1435
30	0	0	0	0.785	12.06	1306	11.79	1336
40	0	0	0	0.785	12.32	1279	12.05	1308
50	0	0	0	0.785	12.58	1253	12.31	1280
60	0	0	0	0.785	12.83	1229	12.56	1255
70	0	0	0	0.785	13.08	1205	12.81	1231
80	0	0	0	0.785	13.32	1184	13.05	1208
90	0	0	0	0.785	13.56	1163	13.29	1186
100	0	0	0	0.785	13.8	1143	13.53	1166
110	0	0	0	0.785	14.03	1124	13.76	1146
120	0	0	0	0.785	14.26	1107	13.99	1127
130	0	0	0	0.785	14.4	1096	14.22	1110
167	0	0	0	0.785	14.92	1058	14.92	1058
212	0	0	0	0.785	15.52	1018	15.52	1018

* Design Condition

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SHEET 178 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.178

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.179	18.77	1973	18.52	2000*
0	0	0	0	0.785	17.95	1374	17.66	1396
30	0	0	0	0.785	18.77	1314	18.48	1335
40	0	0	0	0.785	19.04	1296	18.75	1316
50	0	0	0	0.785	19.3	1278	19.01	1298
60	0	0	0	0.785	19.56	1262	19.27	1281
70	0	0	0	0.785	19.82	1245	19.53	1264
80	0	0	0	0.785	20.08	1230	19.78	1248
90	0	0	0	0.785	20.33	1215	20.03	1232
100	0	0	0	0.785	20.58	1200	20.28	1217
110	0	0	0	0.785	20.82	1186	20.53	1203
120	0	0	0	0.785	21.07	1173	20.77	1189
130	0	0	0	0.785	21.26	1162	21.01	1176
167	0	0	0	0.785	21.82	1133	21.82	1133
212	0	0	0	0.785	22.47	1100	22.47	1100

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.179

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0
100.00	0-7	0-9	0-10	1-0	1-2	1-4	1-5	1-7	1-8	1-9
125.00	0-11	1-1	1-4	1-7	1-10	2-1	2-3	2-5	2-8	2-9
150.00	1-4	1-7	1-11	2-4	2-8	2-11	3-3	3-6	3-10	4-0
175.00	1-9	2-2	2-8	3-2	3-7	4-0	4-5	4-10	5-2	5-5
200.00	2-4	2-10	3-6	4-1	4-8	5-3	5-9	6-3	6-9	7-1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0
100.00	0-7	0-9	0-11	1-1	1-3	1-5	1-6	1-8	1-8	1-9
125.00	1-0	1-2	1-5	1-8	1-11	2-2	2-4	2-7	2-8	2-9
150.00	1-5	1-9	2-1	2-5	2-9	3-1	3-5	3-8	3-10	4-0
175.00	1-11	2-4	2-10	3-4	3-9	4-3	4-7	5-0	5-3	5-5
200.00	2-5	3-1	3-9	4-4	4-11	5-6	6-0	6-6	6-10	7-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.180

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-2
125.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9
150.00	1-6	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-6
175.00	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-5
200.00	2-8	2-11	3-2	3-4	3-7	3-9	4-0	4-2	4-4	4-6
225.00	3-5	3-8	4-0	4-3	4-6	4-9	5-0	5-3	5-6	5-8
250.00	4-2	4-7	4-11	5-3	5-7	5-11	6-2	6-6	6-9	7-1

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2
125.00	1-1	1-2	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10
150.00	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-5	2-6	2-7
175.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-5	3-7
200.00	2-10	3-1	3-4	3-6	3-9	3-11	4-2	4-4	4-6	4-8
225.00	3-7	3-11	4-2	4-6	4-9	5-0	5-3	5-5	5-8	5-10
250.00	4-6	4-10	5-2	5-6	5-10	6-2	6-5	6-9	7-0	7-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-1	2-1
175.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-10
200.00	2-10	2-11	3-1	3-2	3-3	3-4	3-6	3-7	3-8	3-9
225.00	3-7	3-9	3-10	4-0	4-2	4-3	4-5	4-6	4-8	4-9
250.00	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-10
275.00	5-4	5-7	5-9	6-0	6-2	6-4	6-7	6-9	6-11	7-1
300.00	6-4	6-7	6-10	7-1	7-4	7-7	7-10	8-0	8-3	8-5
325.00	7-5	7-9	8-1	8-4	8-7	8-11	9-2	9-5	9-8	9-11
350.00	8-8	9-0	9-4	9-8	10-0	10-4	10-7	10-11	11-3	11-6
375.00	9-11	10-4	10-9	11-1	11-6	11-10	12-2	12-6	12-11	13-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2
175.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11
200.00	2-11	3-0	3-2	3-3	3-4	3-6	3-7	3-8	3-9	3-10
225.00	3-8	3-10	4-0	4-2	4-3	4-5	4-6	4-8	4-9	4-11
250.00	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-10	6-0
275.00	5-6	5-9	6-0	6-2	6-4	6-7	6-9	6-11	7-1	7-3
300.00	6-7	6-10	7-1	7-4	7-7	7-10	8-0	8-3	8-6	8-8
325.00	7-9	8-0	8-4	8-7	8-11	9-2	9-5	9-8	9-11	10-2
350.00	9-0	9-4	9-8	10-0	10-4	10-7	10-11	11-3	11-6	11-10
375.00	10-4	10-8	11-1	11-6	11-10	12-2	12-7	12-11	13-3	13-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.182

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-11	2-11	3-0	3-1	3-2	3-2	3-3	3-4	3-5	3-5
225.00	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-2	4-3	4-4
250.00	4-6	4-7	4-8	4-10	4-11	5-0	5-1	5-2	5-3	5-4
275.00	5-5	5-7	5-8	5-10	5-11	6-1	6-2	6-3	6-5	6-6
300.00	6-6	6-8	6-9	6-11	7-1	7-2	7-4	7-6	7-7	7-9
325.00	7-7	7-9	7-11	8-1	8-3	8-5	8-7	8-9	8-11	9-1
350.00	8-10	9-0	9-3	9-5	9-7	9-10	10-0	10-2	10-4	10-6
375.00	10-2	10-4	10-7	10-10	11-0	11-3	11-6	11-8	11-11	12-1
400.00	11-6	11-9	12-1	12-4	12-7	12-10	13-1	13-4	13-6	13-9
425.00	13-0	13-4	13-7	13-11	14-2	14-6	14-9	15-0	15-3	15-6
450.00	14-7	14-11	15-3	15-7	15-11	16-3	16-6	16-10	17-2	17-5
475.00	16-3	16-8	17-0	17-4	17-9	18-1	18-5	18-9	19-1	19-5
500.00	18-0	18-5	18-10	19-3	19-8	20-0	20-5	20-9	21-2	21-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-11	3-0	3-1	3-2	3-2	3-3	3-4	3-5	3-5	3-6
225.00	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5
250.00	4-7	4-9	4-10	4-11	5-0	5-1	5-2	5-4	5-5	5-6
275.00	5-7	5-8	5-10	5-11	6-1	6-2	6-4	6-5	6-6	6-8
300.00	6-8	6-9	6-11	7-1	7-3	7-4	7-6	7-7	7-9	7-11
325.00	7-9	8-0	8-2	8-4	8-6	8-8	8-9	8-11	9-1	9-3
350.00	9-0	9-3	9-5	9-8	9-10	10-0	10-2	10-5	10-7	10-9
375.00	10-4	10-7	10-10	11-1	11-3	11-6	11-8	11-11	12-2	12-4
400.00	11-10	12-1	12-4	12-7	12-10	13-1	13-4	13-7	13-10	14-0
425.00	13-4	13-7	13-11	14-2	14-6	14-9	15-1	15-4	15-7	15-10
450.00	14-11	15-3	15-7	15-11	16-3	16-7	16-10	17-2	17-6	17-9
475.00	16-8	17-0	17-5	17-9	18-1	18-5	18-10	19-2	19-6	19-10
500.00	18-5	18-10	19-3	19-8	20-1	20-5	20-10	21-3	21-7	21-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.183

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-7	4-7	4-8	4-9	4-10	4-10	4-11	5-0	5-1	5-1
275.00	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-2
300.00	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-5
325.00	7-8	7-10	7-11	8-0	8-2	8-3	8-4	8-5	8-7	8-8
350.00	8-11	9-1	9-2	9-4	9-5	9-7	9-8	9-10	9-11	10-1
375.00	10-3	10-5	10-6	10-8	10-10	11-0	11-1	11-3	11-5	11-6
400.00	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-10	13-0	13-2
425.00	13-2	13-4	13-6	13-9	13-11	14-1	14-3	14-6	14-8	14-10
450.00	14-9	15-0	15-2	15-5	15-7	15-10	16-0	16-3	16-5	16-7
475.00	16-5	16-8	16-11	17-2	17-5	17-7	17-10	18-1	18-4	18-6
500.00	18-2	18-6	18-9	19-0	19-3	19-6	19-9	20-0	20-3	20-6
525.00	20-1	20-5	20-8	21-0	21-3	21-6	21-10	22-1	22-4	22-8
550.00	22-0	22-4	22-8	23-0	23-4	23-8	23-11	24-3	24-7	24-10
575.00	24-1	24-5	24-10	25-2	25-6	25-10	26-2	26-6	26-10	27-2
600.00	26-3	26-8	27-0	27-5	27-9	28-2	28-6	28-11	29-3	29-7
625.00	28-6	28-11	29-4	29-9	30-2	30-7	30-11	31-4	31-9	32-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-7	4-8	4-9	4-10	4-11	4-11	5-0	5-1	5-2	5-2
275.00	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-3
300.00	6-8	6-9	6-10	6-11	7-0	7-2	7-3	7-4	7-5	7-6
325.00	7-10	7-11	8-0	8-2	8-3	8-4	8-6	8-7	8-8	8-9
350.00	9-1	9-2	9-4	9-5	9-7	9-8	9-10	9-11	10-1	10-2
375.00	10-5	10-7	10-8	10-10	11-0	11-2	11-3	11-5	11-7	11-8
400.00	11-10	12-0	12-2	12-4	12-6	12-8	12-10	13-0	13-2	13-4
425.00	13-4	13-7	13-9	13-11	14-2	14-4	14-6	14-8	14-10	15-0
450.00	15-0	15-2	15-5	15-8	15-10	16-1	16-3	16-6	16-8	16-10
475.00	16-8	16-11	17-2	17-5	17-8	17-11	18-1	18-4	18-7	18-9
500.00	18-6	18-9	19-0	19-4	19-7	19-10	20-1	20-4	20-7	20-10
525.00	20-5	20-8	21-0	21-3	21-7	21-10	22-2	22-5	22-8	23-0
550.00	22-5	22-9	23-1	23-4	23-8	24-0	24-4	24-7	24-11	25-3
575.00	24-6	24-10	25-2	25-7	25-11	26-3	26-7	26-11	27-3	27-7
600.00	26-8	27-1	27-5	27-10	28-2	28-7	28-11	29-4	29-8	30-0
625.00	28-11	29-4	29-9	30-2	30-7	31-0	31-5	31-10	32-2	32-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.184

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.179	0.62	2365	0.59	2500*
0	0	0	0	0.785	0.31	3214	0.3	3255
30	0	0	0	0.785	0.59	1651	0.53	1840
40	0	0	0	0.785	0.75	1315	0.66	1480
50	0	0	0	0.785	0.91	1081	0.81	1207
60	0	0	0	0.785	1.07	921	0.97	1014
70	0	0	0	0.785	1.22	807	1.12	877
80	0	0	0	0.785	1.36	723	1.26	777
90	0	0	0	0.785	1.49	660	1.4	702
100	0	0	0	0.785	1.57	627	1.53	643
110	0	0	0	0.785	1.64	600	1.64	600
120	0	0	0	0.785	1.7	576	1.7	576
130	0	0	0	0.785	1.77	555	1.77	555
167	0	0	0	0.785	2	491	2	491
212	0	0	0	0.785	2.26	435	2.26	435

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.179	2.54	2326	2.36	2500*
0	0	0	0	0.785	1.73	2274	1.55	2529
30	0	0	0	0.785	2.49	1577	2.25	1747
40	0	0	0	0.785	2.74	1434	2.49	1577
50	0	0	0	0.785	2.98	1319	2.73	1439
60	0	0	0	0.785	3.21	1225	2.96	1326
70	0	0	0	0.785	3.43	1146	3.19	1233
80	0	0	0	0.785	3.64	1080	3.4	1154
90	0	0	0	0.785	3.84	1023	3.61	1088
100	0	0	0	0.785	4.04	974	3.81	1031
110	0	0	0	0.785	4.19	939	4.01	982
120	0	0	0	0.785	4.29	916	4.19	938
130	0	0	0	0.785	4.4	895	4.37	900
167	0	0	0	0.785	4.78	823	4.78	823
212	0	0	0	0.785	5.21	755	5.21	755

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.185

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.179	5.6	2371	5.31	2500*
0	0	0	0	0.785	4.62	1915	4.26	2074
30	0	0	0	0.785	5.54	1596	5.18	1708
40	0	0	0	0.785	5.83	1517	5.47	1617
50	0	0	0	0.785	6.11	1448	5.75	1538
60	0	0	0	0.785	6.38	1387	6.03	1468
70	0	0	0	0.785	6.64	1332	6.29	1406
80	0	0	0	0.785	6.9	1283	6.55	1350
90	0	0	0	0.785	7.15	1239	6.81	1300
100	0	0	0	0.785	7.39	1198	7.05	1255
110	0	0	0	0.785	7.62	1162	7.29	1214
120	0	0	0	0.785	7.81	1134	7.53	1176
130	0	0	0	0.785	7.94	1115	7.76	1142
167	0	0	0	0.785	8.44	1050	8.44	1050
212	0	0	0	0.785	9	985	9	985

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.179	9.81	2409	9.45	2500*
0	0	0	0	0.785	8.76	1795	8.33	1889
30	0	0	0	0.785	9.74	1615	9.31	1691
40	0	0	0	0.785	10.05	1566	9.62	1636
50	0	0	0	0.785	10.36	1520	9.93	1586
60	0	0	0	0.785	10.65	1478	10.23	1539
70	0	0	0	0.785	10.94	1439	10.52	1497
80	0	0	0	0.785	11.22	1403	10.8	1457
90	0	0	0	0.785	11.5	1370	11.09	1421
100	0	0	0	0.785	11.77	1338	11.36	1386
110	0	0	0	0.785	12.04	1309	11.63	1354
120	0	0	0	0.785	12.3	1281	11.9	1324
130	0	0	0	0.785	12.49	1262	12.16	1296
167	0	0	0	0.785	13.07	1206	13.07	1206
212	0	0	0	0.785	13.73	1149	13.73	1149

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.186

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.179	15.19	2434	14.79	2500*
0	0	0	0	0.785	14.11	1744	13.63	1805
30	0	0	0	0.785	15.12	1629	14.64	1682
40	0	0	0	0.785	15.44	1595	14.96	1646
50	0	0	0	0.785	15.75	1563	15.28	1612
60	0	0	0	0.785	16.07	1533	15.59	1579
70	0	0	0	0.785	16.37	1505	15.9	1549
80	0	0	0	0.785	16.67	1478	16.2	1520
90	0	0	0	0.785	16.97	1452	16.5	1493
100	0	0	0	0.785	17.26	1428	16.8	1467
110	0	0	0	0.785	17.55	1404	17.09	1442
120	0	0	0	0.785	17.84	1382	17.38	1419
130	0	0	0	0.785	18.11	1361	17.66	1396
167	0	0	0	0.785	18.73	1317	18.67	1321
212	0	0	0	0.785	19.49	1267	19.49	1267

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.187

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-4	0-5	0-7	0-8	0-9	0-9	0-10	0-11
100.00	0-5	0-6	0-8	0-10	1-0	1-1	1-3	1-5	1-6	1-8
125.00	0-8	0-10	1-0	1-3	1-6	1-9	2-0	2-2	2-5	2-7
150.00	1-0	1-2	1-6	1-10	2-2	2-6	2-10	3-2	3-5	3-8
175.00	1-4	1-8	2-0	2-6	3-0	3-5	3-10	4-3	4-8	5-0
200.00	1-9	2-2	2-8	3-3	3-10	4-6	5-1	5-7	6-1	6-7

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11
100.00	0-6	0-7	0-9	0-11	1-1	1-3	1-4	1-6	1-7	1-8
125.00	0-9	0-11	1-2	1-5	1-8	1-11	2-1	2-4	2-5	2-7
150.00	1-1	1-4	1-8	2-1	2-5	2-9	3-1	3-4	3-6	3-8
175.00	1-5	1-10	2-3	2-9	3-3	3-9	4-2	4-7	4-10	5-0
200.00	1-10	2-5	3-0	3-8	4-3	4-10	5-5	6-0	6-3	6-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.188

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11	0-11	1-0
125.00	0-9	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
150.00	1-2	1-3	1-5	1-6	1-8	1-10	1-11	2-0	2-2	2-3
175.00	1-6	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-1
200.00	2-0	2-3	2-6	2-9	3-0	3-2	3-5	3-7	3-10	4-0
225.00	2-6	2-10	3-2	3-5	3-9	4-0	4-4	4-7	4-10	5-1
250.00	3-2	3-6	3-11	4-3	4-8	5-0	5-4	5-8	5-11	6-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1
125.00	0-10	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
150.00	1-3	1-5	1-6	1-8	1-10	1-11	2-1	2-2	2-3	2-4
175.00	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-2
200.00	2-3	2-6	2-9	3-0	3-2	3-5	3-8	3-10	4-0	4-2
225.00	2-10	3-2	3-6	3-9	4-1	4-4	4-7	4-10	5-1	5-4
250.00	3-6	3-11	4-3	4-8	5-0	5-4	5-8	6-0	6-4	6-7

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STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.189

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10
175.00	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5	2-6
200.00	2-2	2-4	2-5	2-7	2-8	2-10	2-11	3-0	3-2	3-3
225.00	2-9	2-11	3-1	3-3	3-5	3-6	3-8	3-10	4-0	4-1
250.00	3-5	3-7	3-10	4-0	4-2	4-4	4-7	4-9	4-11	5-1
275.00	4-1	4-4	4-7	4-10	5-1	5-3	5-6	5-9	5-11	6-2
300.00	4-11	5-2	5-6	5-9	6-0	6-4	6-7	6-10	7-1	7-4
325.00	5-9	6-1	6-5	6-9	7-1	7-5	7-8	8-0	8-3	8-7
350.00	6-8	7-1	7-5	7-10	8-2	8-7	8-11	9-3	9-7	9-11
375.00	7-7	8-1	8-7	9-0	9-5	9-10	10-3	10-8	11-0	11-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-11
175.00	1-9	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
200.00	2-4	2-6	2-7	2-9	2-10	2-11	3-1	3-2	3-3	3-5
225.00	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-0	4-2	4-3
250.00	3-8	3-10	4-1	4-3	4-5	4-7	4-9	5-0	5-2	5-4
275.00	4-5	4-8	4-11	5-2	5-4	5-7	5-10	6-0	6-2	6-5
300.00	5-3	5-6	5-10	6-1	6-5	6-8	6-11	7-2	7-5	7-7
325.00	6-2	6-6	6-10	7-2	7-6	7-10	8-1	8-5	8-8	8-11
350.00	7-2	7-7	7-11	8-4	8-8	9-1	9-5	9-9	10-1	10-5
375.00	8-2	8-8	9-1	9-7	10-0	10-5	10-9	11-2	11-7	11-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.190

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9	2-10	2-11
225.00	2-10	2-11	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
250.00	3-6	3-8	3-9	3-11	4-0	4-1	4-3	4-4	4-5	4-6
275.00	4-3	4-5	4-7	4-8	4-10	5-0	5-1	5-3	5-4	5-6
300.00	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-5	6-6
325.00	5-11	6-2	6-4	6-7	6-9	6-11	7-2	7-4	7-6	7-8
350.00	6-11	7-1	7-4	7-7	7-10	8-1	8-3	8-6	8-8	8-11
375.00	7-11	8-2	8-5	8-9	9-0	9-3	9-6	9-9	10-0	10-3
400.00	9-0	9-4	9-7	9-11	10-3	10-6	10-10	11-1	11-4	11-8
425.00	10-2	10-6	10-10	11-2	11-7	11-11	12-2	12-6	12-10	13-2
450.00	11-5	11-9	12-2	12-7	12-11	13-4	13-8	14-0	14-5	14-9
475.00	12-8	13-2	13-7	14-0	14-5	14-10	15-3	15-8	16-0	16-5
500.00	14-1	14-7	15-0	15-6	16-0	16-5	16-11	17-4	17-9	18-2

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-10	2-11	3-0
225.00	3-0	3-1	3-2	3-3	3-4	3-6	3-7	3-8	3-9	3-10
250.00	3-8	3-10	3-11	4-1	4-2	4-3	4-5	4-6	4-7	4-8
275.00	4-5	4-7	4-9	4-11	5-0	5-2	5-4	5-5	5-7	5-8
300.00	5-4	5-6	5-8	5-10	6-0	6-2	6-4	6-6	6-7	6-9
325.00	6-3	6-5	6-8	6-10	7-0	7-3	7-5	7-7	7-9	7-11
350.00	7-3	7-5	7-8	7-11	8-2	8-4	8-7	8-10	9-0	9-3
375.00	8-3	8-7	8-10	9-1	9-4	9-7	9-10	10-1	10-4	10-7
400.00	9-5	9-9	10-1	10-4	10-8	10-11	11-3	11-6	11-9	12-0
425.00	10-8	11-0	11-4	11-8	12-0	12-4	12-8	13-0	13-4	13-7
450.00	11-11	12-4	12-9	13-1	13-6	13-10	14-3	14-7	14-11	15-3
475.00	13-4	13-9	14-2	14-7	15-0	15-5	15-10	16-3	16-7	17-0
500.00	14-9	15-3	15-9	16-2	16-8	17-1	17-7	18-0	18-5	18-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.191

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-1	4-2	4-3
275.00	4-4	4-5	4-6	4-7	4-9	4-10	4-11	5-0	5-1	5-2
300.00	5-2	5-3	5-5	5-6	5-7	5-9	5-10	5-11	6-1	6-2
325.00	6-0	6-2	6-4	6-5	6-7	6-9	6-10	7-0	7-1	7-3
350.00	7-0	7-2	7-4	7-6	7-8	7-9	7-11	8-1	8-3	8-4
375.00	8-1	8-3	8-5	8-7	8-9	8-11	9-1	9-3	9-5	9-7
400.00	9-2	9-4	9-7	9-9	10-0	10-2	10-4	10-7	10-9	10-11
425.00	10-4	10-7	10-10	11-0	11-3	11-6	11-8	11-11	12-2	12-4
450.00	11-7	11-10	12-1	12-4	12-8	12-11	13-1	13-4	13-7	13-10
475.00	12-11	13-3	13-6	13-9	14-1	14-4	14-7	14-11	15-2	15-5
500.00	14-4	14-8	15-0	15-3	15-7	15-11	16-2	16-6	16-10	17-1
525.00	15-9	16-2	16-6	16-10	17-2	17-6	17-10	18-2	18-6	18-10
550.00	17-4	17-9	18-1	18-6	18-10	19-3	19-7	20-0	20-4	20-8
575.00	18-11	19-4	19-10	20-3	20-8	21-0	21-5	21-10	22-3	22-7
600.00	20-7	21-1	21-7	22-0	22-6	22-11	23-4	23-9	24-2	24-8
625.00	22-4	22-11	23-5	23-11	24-5	24-10	25-4	25-10	26-3	26-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5
275.00	4-6	4-7	4-8	4-9	4-10	4-11	5-0	5-2	5-3	5-4
300.00	5-4	5-5	5-7	5-8	5-9	5-11	6-0	6-1	6-3	6-4
325.00	6-3	6-5	6-6	6-8	6-9	6-11	7-0	7-2	7-3	7-5
350.00	7-3	7-5	7-7	7-9	7-10	8-0	8-2	8-4	8-5	8-7
375.00	8-4	8-6	8-8	8-10	9-0	9-2	9-4	9-6	9-8	9-10
400.00	9-6	9-8	9-11	10-1	10-3	10-6	10-8	10-10	11-1	11-3
425.00	10-8	10-11	11-2	11-5	11-7	11-10	12-1	12-3	12-6	12-8
450.00	12-0	12-3	12-6	12-9	13-0	13-3	13-6	13-9	14-0	14-3
475.00	13-4	13-8	13-11	14-3	14-6	14-9	15-1	15-4	15-7	15-10
500.00	14-9	15-1	15-5	15-9	16-1	16-4	16-8	17-0	17-3	17-7
525.00	16-4	16-8	17-0	17-4	17-9	18-1	18-5	18-9	19-0	19-4
550.00	17-11	18-4	18-8	19-1	19-5	19-10	20-2	20-7	20-11	21-3
575.00	19-7	20-0	20-5	20-10	21-3	21-8	22-1	22-5	22-10	23-3
600.00	21-4	21-9	22-3	22-8	23-2	23-7	24-0	24-5	24-11	25-4
625.00	23-1	23-8	24-2	24-8	25-1	25-7	26-1	26-6	27-0	27-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.192

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.179	0.53	2788	0.49	3000*
0	0	0	0	0.785	0.26	3770	0.26	3846
30	0	0	0	0.785	0.48	2049	0.42	2347
40	0	0	0	0.785	0.61	1614	0.52	1902
50	0	0	0	0.785	0.76	1289	0.64	1527
60	0	0	0	0.785	0.92	1063	0.79	1242
70	0	0	0	0.785	1.08	908	0.95	1037
80	0	0	0	0.785	1.23	798	1.1	893
90	0	0	0	0.785	1.37	717	1.24	789
100	0	0	0	0.785	1.44	680	1.38	711
110	0	0	0	0.785	1.51	649	1.51	651
120	0	0	0	0.785	1.59	619	1.59	619
130	0	0	0	0.785	1.66	593	1.66	593
167	0	0	0	0.785	1.9	519	1.9	519
212	0	0	0	0.785	2.16	454	2.16	454

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.179	2.17	2720	1.97	3000*
0	0	0	0	0.785	1.35	2899	1.2	3272
30	0	0	0	0.785	2.07	1897	1.78	2201
40	0	0	0	0.785	2.33	1687	2.02	1944
50	0	0	0	0.785	2.58	1522	2.26	1735
60	0	0	0	0.785	2.83	1390	2.51	1566
70	0	0	0	0.785	3.06	1283	2.75	1430
80	0	0	0	0.785	3.29	1195	2.98	1318
90	0	0	0	0.785	3.5	1121	3.2	1226
100	0	0	0	0.785	3.71	1059	3.42	1149
110	0	0	0	0.785	3.87	1016	3.63	1083
120	0	0	0	0.785	3.98	988	3.83	1027
130	0	0	0	0.785	4.09	962	4.02	978
167	0	0	0	0.785	4.49	876	4.49	876
212	0	0	0	0.785	4.94	797	4.94	797

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.193

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.179	4.79	2773	4.42	3000*
0	0	0	0	0.785	3.66	2413	3.24	2726
30	0	0	0	0.785	4.66	1898	4.18	2114
40	0	0	0	0.785	4.97	1778	4.5	1966
50	0	0	0	0.785	5.28	1675	4.8	1840
60	0	0	0	0.785	5.58	1586	5.11	1732
70	0	0	0	0.785	5.87	1508	5.4	1638
80	0	0	0	0.785	6.14	1440	5.69	1556
90	0	0	0	0.785	6.41	1379	5.96	1483
100	0	0	0	0.785	6.68	1325	6.23	1419
110	0	0	0	0.785	6.93	1277	6.5	1362
120	0	0	0	0.785	7.14	1240	6.75	1311
130	0	0	0	0.785	7.28	1216	7	1265
167	0	0	0	0.785	7.8	1135	7.8	1135
212	0	0	0	0.785	8.39	1056	8.39	1056

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.179	8.35	2829	7.87	3000*
0	0	0	0	0.785	7.09	2217	6.5	2418
30	0	0	0	0.785	8.2	1919	7.6	2069
40	0	0	0	0.785	8.55	1841	7.95	1978
50	0	0	0	0.785	8.89	1770	8.29	1896
60	0	0	0	0.785	9.22	1707	8.63	1822
70	0	0	0	0.785	9.54	1649	8.96	1756
80	0	0	0	0.785	9.86	1597	9.28	1695
90	0	0	0	0.785	10.16	1549	9.6	1640
100	0	0	0	0.785	10.46	1505	9.9	1589
110	0	0	0	0.785	10.76	1464	10.2	1543
120	0	0	0	0.785	11.04	1426	10.5	1500
130	0	0	0	0.785	11.28	1397	10.79	1460
167	0	0	0	0.785	11.87	1327	11.8	1335
212	0	0	0	0.785	12.59	1252	12.59	1252

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.179	12.87	2870	12.31	3000*
0	0	0	0	0.785	11.54	2130	10.86	2264
30	0	0	0	0.785	12.7	1937	12.02	2046
40	0	0	0	0.785	13.07	1882	12.39	1984
50	0	0	0	0.785	13.43	1832	12.76	1928
60	0	0	0	0.785	13.78	1785	13.12	1875
70	0	0	0	0.785	14.13	1742	13.47	1827
80	0	0	0	0.785	14.47	1701	13.81	1781
90	0	0	0	0.785	14.81	1663	14.15	1739
100	0	0	0	0.785	15.13	1627	14.49	1699
110	0	0	0	0.785	15.46	1593	14.82	1662
120	0	0	0	0.785	15.77	1561	15.14	1627
130	0	0	0	0.785	16.08	1531	15.45	1593
167	0	0	0	0.785	16.79	1467	16.58	1486
212	0	0	0	0.785	17.61	1400	17.61	1400

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10
100.00	0-4	0-5	0-6	0-8	0-9	0-11	1-1	1-3	1-5	1-6
125.00	0-6	0-8	0-10	1-0	1-3	1-6	1-9	1-11	2-2	2-4
150.00	0-9	0-11	1-2	1-5	1-9	2-2	2-6	2-10	3-1	3-5
175.00	1-1	1-3	1-7	2-0	2-5	2-11	3-4	3-10	4-3	4-7
200.00	1-5	1-8	2-1	2-7	3-2	3-9	4-5	5-0	5-6	6-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10
100.00	0-5	0-6	0-7	0-9	0-11	1-1	1-3	1-4	1-5	1-6
125.00	0-7	0-9	0-11	1-2	1-5	1-8	1-11	2-2	2-3	2-4
150.00	0-10	1-1	1-4	1-9	2-1	2-5	2-9	3-1	3-3	3-5
175.00	1-2	1-6	1-10	2-4	2-10	3-4	3-9	4-2	4-5	4-8
200.00	1-6	1-11	2-5	3-1	3-8	4-4	4-11	5-6	5-9	6-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.196

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11
125.00	0-7	0-8	0-9	0-11	1-0	1-1	1-2	1-3	1-4	1-5
150.00	0-11	1-0	1-2	1-3	1-5	1-7	1-8	1-10	1-11	2-0
175.00	1-2	1-4	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9
200.00	1-7	1-9	2-0	2-3	2-6	2-9	3-0	3-2	3-5	3-8
225.00	2-0	2-3	2-7	2-10	3-2	3-6	3-9	4-1	4-4	4-7
250.00	2-5	2-9	3-2	3-6	3-11	4-4	4-8	5-0	5-4	5-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-11	0-11	1-0
125.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
150.00	1-0	1-2	1-4	1-5	1-7	1-9	1-10	2-0	2-1	2-2
175.00	1-5	1-7	1-9	2-0	2-2	2-4	2-6	2-8	2-10	3-0
200.00	1-10	2-1	2-4	2-7	2-10	3-1	3-3	3-6	3-9	3-10
225.00	2-4	2-7	2-11	3-3	3-7	3-11	4-2	4-5	4-8	4-11
250.00	2-10	3-3	3-8	4-0	4-5	4-9	5-2	5-6	5-10	6-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.197

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7
175.00	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-3
200.00	1-9	1-10	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-11
225.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
250.00	2-8	2-11	3-1	3-4	3-7	3-9	3-11	4-2	4-4	4-6
275.00	3-3	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-5
300.00	3-10	4-2	4-6	4-10	5-1	5-5	5-8	6-0	6-3	6-6
325.00	4-6	4-11	5-3	5-8	6-0	6-4	6-8	7-0	7-4	7-7
350.00	5-3	5-8	6-1	6-6	6-11	7-4	7-9	8-1	8-6	8-10
375.00	6-0	6-6	7-0	7-6	8-0	8-5	8-11	9-4	9-9	10-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-1	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9
175.00	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2	2-3	2-4
200.00	1-11	2-1	2-3	2-4	2-6	2-7	2-9	2-10	3-0	3-1
225.00	2-5	2-7	2-10	3-0	3-2	3-4	3-5	3-7	3-9	3-11
250.00	3-0	3-3	3-5	3-8	3-10	4-1	4-3	4-5	4-8	4-10
275.00	3-8	3-11	4-2	4-5	4-8	4-11	5-2	5-5	5-7	5-10
300.00	4-4	4-8	5-0	5-3	5-7	5-10	6-2	6-5	6-8	6-11
325.00	5-1	5-6	5-10	6-2	6-7	6-11	7-3	7-6	7-10	8-2
350.00	5-11	6-4	6-9	7-2	7-7	8-0	8-4	8-9	9-1	9-5
375.00	6-9	7-3	7-9	8-3	8-9	9-2	9-7	10-0	10-5	10-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.198

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
225.00	2-3	2-5	2-6	2-7	2-9	2-10	2-11	3-0	3-2	3-3
250.00	2-10	3-0	3-1	3-3	3-4	3-6	3-7	3-9	3-10	4-0
275.00	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-6	4-8	4-10
300.00	4-1	4-3	4-6	4-8	4-10	5-0	5-3	5-5	5-7	5-9
325.00	4-9	5-0	5-3	5-6	5-8	5-11	6-2	6-4	6-6	6-9
350.00	5-6	5-10	6-1	6-4	6-7	6-10	7-1	7-4	7-7	7-10
375.00	6-4	6-8	7-0	7-3	7-7	7-10	8-2	8-5	8-8	9-0
400.00	7-3	7-7	7-11	8-4	8-8	9-0	9-3	9-7	9-11	10-2
425.00	8-2	8-7	9-0	9-4	9-9	10-1	10-6	10-10	11-2	11-6
450.00	9-2	9-7	10-1	10-6	10-11	11-4	11-9	12-2	12-6	12-11
475.00	10-2	10-9	11-3	11-8	12-2	12-8	13-1	13-6	14-0	14-5
500.00	11-4	11-10	12-5	13-0	13-6	14-0	14-6	15-0	15-6	15-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-6	2-7	2-8
225.00	2-6	2-7	2-8	2-10	2-11	3-0	3-1	3-3	3-4	3-5
250.00	3-1	3-2	3-4	3-6	3-7	3-9	3-10	4-0	4-1	4-2
275.00	3-8	3-10	4-0	4-2	4-4	4-6	4-8	4-10	4-11	5-1
300.00	4-5	4-7	4-10	5-0	5-2	5-4	5-7	5-9	5-11	6-1
325.00	5-2	5-5	5-8	5-10	6-1	6-4	6-6	6-8	6-11	7-1
350.00	6-0	6-3	6-7	6-10	7-1	7-4	7-7	7-9	8-0	8-3
375.00	6-11	7-2	7-6	7-10	8-1	8-5	8-8	8-11	9-2	9-5
400.00	7-10	8-2	8-7	8-11	9-3	9-6	9-10	10-2	10-6	10-9
425.00	8-10	9-3	9-8	10-0	10-5	10-9	11-2	11-6	11-10	12-2
450.00	9-11	10-4	10-10	11-3	11-8	12-1	12-6	12-10	13-3	13-7
475.00	11-1	11-7	12-1	12-6	13-0	13-5	13-11	14-4	14-9	15-2
500.00	12-3	12-10	13-4	13-11	14-5	14-11	15-5	15-11	16-4	16-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.199

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
275.00	3-6	3-8	3-9	3-10	4-0	4-1	4-2	4-3	4-5	4-6
300.00	4-2	4-4	4-6	4-7	4-9	4-10	5-0	5-1	5-3	5-4
325.00	4-11	5-1	5-3	5-5	5-6	5-8	5-10	6-0	6-1	6-3
350.00	5-8	5-11	6-1	6-3	6-5	6-7	6-9	6-11	7-1	7-3
375.00	6-7	6-9	7-0	7-2	7-5	7-7	7-9	7-11	8-2	8-4
400.00	7-5	7-8	7-11	8-2	8-5	8-7	8-10	9-1	9-3	9-6
425.00	8-5	8-8	8-11	9-3	9-6	9-9	10-0	10-3	10-6	10-8
450.00	9-5	9-9	10-0	10-4	10-7	10-11	11-2	11-6	11-9	12-0
475.00	10-6	10-10	11-2	11-6	11-10	12-2	12-6	12-9	13-1	13-4
500.00	11-8	12-0	12-5	12-9	13-1	13-6	13-10	14-2	14-6	14-10
525.00	12-10	13-3	13-8	14-1	14-6	14-10	15-3	15-7	16-0	16-4
550.00	14-1	14-7	15-0	15-5	15-10	16-4	16-9	17-2	17-6	17-11
575.00	15-5	15-11	16-5	16-11	17-4	17-10	18-3	18-9	19-2	19-7
600.00	16-9	17-4	17-10	18-5	18-11	19-5	19-11	20-5	20-10	21-4
625.00	18-2	18-9	19-4	19-11	20-6	21-1	21-7	22-2	22-8	23-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10
275.00	3-9	3-10	3-11	4-1	4-2	4-3	4-4	4-6	4-7	4-8
300.00	4-5	4-7	4-8	4-10	5-0	5-1	5-2	5-4	5-5	5-7
325.00	5-2	5-4	5-6	5-8	5-10	6-0	6-1	6-3	6-5	6-6
350.00	6-0	6-3	6-5	6-7	6-9	6-11	7-1	7-3	7-5	7-7
375.00	6-11	7-2	7-4	7-7	7-9	7-11	8-2	8-4	8-6	8-8
400.00	7-11	8-1	8-4	8-7	8-10	9-0	9-3	9-6	9-8	9-11
425.00	8-11	9-2	9-5	9-8	9-11	10-2	10-5	10-8	10-11	11-2
450.00	10-0	10-3	10-7	10-11	11-2	11-5	11-9	12-0	12-3	12-6
475.00	11-1	11-6	11-10	12-1	12-5	12-9	13-1	13-4	13-8	13-11
500.00	12-4	12-8	13-1	13-5	13-9	14-2	14-6	14-10	15-2	15-5
525.00	13-7	14-0	14-5	14-10	15-2	15-7	15-11	16-4	16-8	17-1
550.00	14-11	15-4	15-10	16-3	16-8	17-1	17-6	17-11	18-4	18-8
575.00	16-4	16-10	17-3	17-9	18-3	18-8	19-2	19-7	20-0	20-5
600.00	17-9	18-4	18-10	19-4	19-10	20-4	20-10	21-4	21-10	22-3
625.00	19-3	19-10	20-5	21-0	21-7	22-1	22-8	23-2	23-8	24-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.200

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	2.13	1000	2.13	1000*
20	0	0	0	0.785	1.73	568	1.73	569
30	0	0	0	0.785	1.84	533	1.84	534
40	0	0	0	0.785	1.95	504	1.94	506
50	0	0	0	0.785	2.05	480	2.04	481
60	0	0	0	0.785	2.14	458	2.14	460
70	0	0	0	0.785	2.24	440	2.23	441
80	0	0	0	0.785	2.32	423	2.32	424
90	0	0	0	0.785	2.4	410	2.4	410
100	0	0	0	0.785	2.45	401	2.45	401
110	0	0	0	0.785	2.5	393	2.5	393
120	0	0	0	0.785	2.55	385	2.55	385
130	0	0	0	0.785	2.6	378	2.6	378
167	0	0	0	0.785	2.78	354	2.78	354
212	0	0	0	0.785	2.98	330	2.98	330

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	8.55	1000	8.55	1000*
20	0	0	0	0.785	8.17	484	8.16	484
30	0	0	0	0.785	8.28	477	8.27	478
40	0	0	0	0.785	8.38	472	8.37	472
50	0	0	0	0.785	8.48	466	8.47	467
60	0	0	0	0.785	8.57	461	8.57	462
70	0	0	0	0.785	8.67	456	8.66	457
80	0	0	0	0.785	8.76	451	8.76	452
90	0	0	0	0.785	8.86	447	8.85	447
100	0	0	0	0.785	8.92	444	8.92	444
110	0	0	0	0.785	8.98	441	8.98	441
120	0	0	0	0.785	9.04	438	9.04	438
130	0	0	0	0.785	9.1	435	9.1	435
167	0	0	0	0.785	9.31	425	9.31	425
212	0	0	0	0.785	9.57	414	9.57	414

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	19.43	1000	19.43	1000*
20	0	0	0	0.785	19.04	471	19.04	471
30	0	0	0	0.785	19.15	469	19.15	469
40	0	0	0	0.785	19.25	466	19.25	466
50	0	0	0	0.785	19.35	464	19.34	464
60	0	0	0	0.785	19.45	462	19.44	462
70	0	0	0	0.785	19.54	460	19.54	460
80	0	0	0	0.785	19.64	457	19.63	458
90	0	0	0	0.785	19.74	455	19.73	455
100	0	0	0	0.785	19.8	454	19.8	454
110	0	0	0	0.785	19.86	452	19.86	452
120	0	0	0	0.785	19.92	451	19.92	451
130	0	0	0	0.785	19.99	450	19.99	450
167	0	0	0	0.785	20.21	445	20.21	445
212	0	0	0	0.785	20.48	439	20.48	439

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	35.01	1000	35.01	1000*
20	0	0	0	0.785	34.63	467	34.62	467
30	0	0	0	0.785	34.74	466	34.73	466
40	0	0	0	0.785	34.84	464	34.83	464
50	0	0	0	0.785	34.93	463	34.93	463
60	0	0	0	0.785	35.03	462	35.02	462
70	0	0	0	0.785	35.13	461	35.12	461
80	0	0	0	0.785	35.23	460	35.22	460
90	0	0	0	0.785	35.32	458	35.31	458
100	0	0	0	0.785	35.39	458	35.39	458
110	0	0	0	0.785	35.45	457	35.45	457
120	0	0	0	0.785	35.51	456	35.51	456
130	0	0	0	0.785	35.58	455	35.58	455
167	0	0	0	0.785	35.81	453	35.81	453
212	0	0	0	0.785	36.08	449	36.08	449

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	55.73	1000	55.73	1000*
20	0	0	0	0.785	55.34	465	55.34	465
30	0	0	0	0.785	55.45	464	55.45	464
40	0	0	0	0.785	55.55	464	55.54	464
50	0	0	0	0.785	55.65	463	55.64	463
60	0	0	0	0.785	55.74	462	55.74	462
70	0	0	0	0.785	55.84	461	55.83	461
80	0	0	0	0.785	55.94	461	55.93	461
90	0	0	0	0.785	56.03	460	56.02	460
100	0	0	0	0.785	56.1	459	56.1	459
110	0	0	0	0.785	56.16	459	56.16	459
120	0	0	0	0.785	56.23	458	56.23	458
130	0	0	0	0.785	56.29	458	56.29	458
167	0	0	0	0.785	56.52	456	56.52	456
212	0	0	0	0.785	56.8	454	56.8	454

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.203

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-5
100.00	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5	2-5	2-6
125.00	2-8	2-11	3-0	3-2	3-4	3-6	3-7	3-9	3-10	3-11
150.00	3-11	4-2	4-5	4-7	4-10	5-0	5-3	5-5	5-6	5-8
175.00	5-3	5-8	5-11	6-3	6-7	6-10	7-1	7-4	7-6	7-8
200.00	6-11	7-4	7-9	8-2	8-7	8-11	9-3	9-8	9-10	10-1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-5
100.00	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5	2-5	2-6
125.00	2-8	2-11	3-1	3-2	3-4	3-6	3-8	3-9	3-10	3-11
150.00	3-11	4-2	4-5	4-7	4-10	5-0	5-3	5-5	5-6	5-8
175.00	5-4	5-8	6-0	6-3	6-7	6-10	7-2	7-4	7-6	7-8
200.00	6-11	7-5	7-10	8-2	8-7	9-0	9-4	9-8	9-10	10-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-0	2-1	2-1	2-1	2-2	2-2	2-2	2-2	2-3	2-3
125.00	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-5	3-6	3-6
150.00	4-7	4-8	4-8	4-9	4-10	4-10	4-11	5-0	5-0	5-1
175.00	6-3	6-4	6-5	6-6	6-7	6-8	6-8	6-9	6-10	6-10
200.00	8-2	8-3	8-4	8-6	8-7	8-8	8-9	8-10	8-11	9-0
225.00	10-4	10-6	10-7	10-9	10-10	11-0	11-1	11-2	11-4	11-4
250.00	12-9	12-11	13-1	13-3	13-5	13-7	13-8	13-10	13-11	14-1

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-0	2-1	2-1	2-1	2-2	2-2	2-2	2-3	2-3	2-3
125.00	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-5	3-6	3-6
150.00	4-7	4-8	4-8	4-9	4-10	4-10	4-11	5-0	5-0	5-1
175.00	6-3	6-4	6-5	6-6	6-7	6-8	6-8	6-9	6-10	6-10
200.00	8-2	8-3	8-5	8-6	8-7	8-8	8-9	8-10	8-11	9-0
225.00	10-4	10-6	10-7	10-9	10-10	11-0	11-1	11-3	11-4	11-4
250.00	12-9	12-11	13-1	13-3	13-5	13-7	13-9	13-10	13-11	14-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.205

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-9	4-9	4-10	4-10	4-10	4-10	4-11	4-11	4-11	4-11
175.00	6-5	6-6	6-6	6-7	6-7	6-7	6-8	6-8	6-9	6-9
200.00	8-5	8-6	8-6	8-7	8-7	8-8	8-8	8-9	8-9	8-10
225.00	10-8	10-9	10-10	10-10	10-11	11-0	11-0	11-1	11-1	11-2
250.00	13-2	13-3	13-4	13-5	13-6	13-7	13-7	13-8	13-9	13-9
275.00	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-7	16-8
300.00	19-0	19-2	19-3	19-4	19-5	19-6	19-8	19-9	19-10	19-10
325.00	22-4	22-6	22-7	22-9	22-10	22-11	23-1	23-2	23-3	23-4
350.00	26-0	26-1	26-3	26-5	26-6	26-8	26-9	26-11	27-0	27-1
375.00	29-10	30-0	30-2	30-4	30-6	30-7	30-9	30-11	31-0	31-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-9	4-9	4-10	4-10	4-10	4-10	4-11	4-11	4-11	4-11
175.00	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-8	6-9	6-9
200.00	8-5	8-6	8-6	8-7	8-7	8-8	8-8	8-9	8-9	8-10
225.00	10-8	10-9	10-10	10-10	10-11	11-0	11-0	11-1	11-1	11-2
250.00	13-2	13-3	13-4	13-5	13-6	13-7	13-7	13-8	13-9	13-9
275.00	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-7	16-8
300.00	19-1	19-2	19-3	19-4	19-5	19-7	19-8	19-9	19-10	19-10
325.00	22-4	22-6	22-7	22-9	22-10	23-0	23-1	23-2	23-3	23-4
350.00	26-0	26-1	26-3	26-5	26-6	26-8	26-9	26-11	27-0	27-1
375.00	29-10	30-0	30-2	30-4	30-6	30-8	30-9	30-11	31-0	31-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.206

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-9	8-9	8-10
225.00	10-11	10-11	10-11	11-0	11-0	11-0	11-1	11-1	11-1	11-2
250.00	13-5	13-6	13-6	13-7	13-7	13-8	13-8	13-9	13-9	13-9
275.00	16-3	16-4	16-5	16-5	16-6	16-6	16-7	16-7	16-8	16-8
300.00	19-5	19-5	19-6	19-7	19-7	19-8	19-9	19-9	19-10	19-10
325.00	22-9	22-10	22-11	23-0	23-1	23-1	23-2	23-3	23-3	23-4
350.00	26-5	26-6	26-7	26-8	26-9	26-10	26-11	27-0	27-0	27-1
375.00	30-5	30-6	30-7	30-8	30-9	30-10	30-11	31-0	31-1	31-1
400.00	34-7	34-9	34-10	34-11	35-0	35-1	35-3	35-4	35-5	35-5
425.00	39-2	39-3	39-4	39-6	39-7	39-8	39-10	39-11	40-0	40-1
450.00	43-11	44-1	44-2	44-4	44-5	44-7	44-8	44-10	44-11	45-0
475.00	49-0	49-2	49-4	49-5	49-7	49-9	49-10	50-0	50-1	50-2
500.00	54-5	54-7	54-9	54-11	55-0	55-2	55-4	55-6	55-7	55-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-9	8-9	8-10
225.00	10-11	10-11	10-11	11-0	11-0	11-0	11-1	11-1	11-1	11-2
250.00	13-5	13-6	13-6	13-7	13-7	13-8	13-8	13-9	13-9	13-9
275.00	16-3	16-4	16-5	16-5	16-6	16-6	16-7	16-7	16-8	16-8
300.00	19-5	19-5	19-6	19-7	19-7	19-8	19-9	19-9	19-10	19-10
325.00	22-9	22-10	22-11	23-0	23-1	23-1	23-2	23-3	23-3	23-4
350.00	26-5	26-6	26-7	26-8	26-9	26-10	26-11	27-0	27-0	27-1
375.00	30-5	30-6	30-7	30-8	30-9	30-10	30-11	31-0	31-1	31-1
400.00	34-8	34-9	34-10	34-11	35-0	35-2	35-3	35-4	35-5	35-5
425.00	39-2	39-3	39-5	39-6	39-7	39-8	39-10	39-11	40-0	40-1
450.00	43-11	44-1	44-2	44-4	44-5	44-7	44-8	44-10	44-11	45-0
475.00	49-0	49-2	49-4	49-6	49-7	49-9	49-11	50-0	50-1	50-2
500.00	54-5	54-7	54-9	54-11	55-1	55-2	55-4	55-6	55-7	55-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.207

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	13-8	13-8	13-9	13-9	13-9	13-9	13-10	13-10	13-10	13-10
275.00	16-7	16-7	16-7	16-8	16-8	16-8	16-9	16-9	16-9	16-10
300.00	19-9	19-9	19-10	19-10	19-10	19-11	19-11	20-0	20-0	20-0
325.00	23-2	23-3	23-3	23-4	23-4	23-4	23-5	23-5	23-6	23-6
350.00	26-11	26-11	27-0	27-1	27-1	27-2	27-2	27-3	27-3	27-4
375.00	30-11	31-0	31-0	31-1	31-2	31-2	31-3	31-4	31-4	31-4
400.00	35-3	35-3	35-4	35-5	35-6	35-6	35-7	35-8	35-8	35-9
425.00	39-10	39-11	39-11	40-0	40-1	40-2	40-3	40-4	40-4	40-5
450.00	44-8	44-9	44-10	44-11	45-0	45-1	45-2	45-3	45-4	45-4
475.00	49-10	50-0	50-1	50-2	50-3	50-4	50-5	50-6	50-7	50-7
500.00	55-4	55-5	55-7	55-8	55-9	55-10	55-11	56-0	56-1	56-2
525.00	61-1	61-3	61-4	61-5	61-7	61-8	61-9	61-10	61-11	62-0
550.00	67-2	67-4	67-5	67-7	67-8	67-9	67-11	68-0	68-1	68-2
575.00	73-7	73-8	73-10	74-0	74-1	74-3	74-4	74-6	74-7	74-8
600.00	80-3	80-5	80-7	80-8	80-10	81-0	81-1	81-3	81-4	81-5
625.00	87-3	87-5	87-7	87-9	87-11	88-0	88-2	88-4	88-6	88-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	13-8	13-8	13-9	13-9	13-9	13-10	13-10	13-10	13-10	13-10
275.00	16-7	16-7	16-7	16-8	16-8	16-8	16-9	16-9	16-9	16-10
300.00	19-9	19-9	19-10	19-10	19-10	19-11	19-11	20-0	20-0	20-0
325.00	23-2	23-3	23-3	23-4	23-4	23-4	23-5	23-5	23-6	23-6
350.00	26-11	26-11	27-0	27-1	27-1	27-2	27-2	27-3	27-3	27-4
375.00	30-11	31-0	31-0	31-1	31-2	31-2	31-3	31-4	31-4	31-4
400.00	35-3	35-3	35-4	35-5	35-6	35-6	35-7	35-8	35-8	35-9
425.00	39-10	39-11	39-11	40-0	40-1	40-2	40-3	40-4	40-4	40-5
450.00	44-8	44-9	44-10	44-11	45-0	45-1	45-2	45-3	45-4	45-4
475.00	49-10	50-0	50-1	50-2	50-3	50-4	50-5	50-6	50-7	50-7
500.00	55-4	55-5	55-7	55-8	55-9	55-10	55-11	56-0	56-1	56-2
525.00	61-1	61-3	61-4	61-5	61-7	61-8	61-9	61-11	61-11	62-0
550.00	67-2	67-4	67-5	67-7	67-8	67-10	67-11	68-0	68-1	68-2
575.00	73-7	73-9	73-10	74-0	74-1	74-3	74-4	74-6	74-7	74-8
600.00	80-3	80-5	80-7	80-8	80-10	81-0	81-1	81-3	81-4	81-5
625.00	87-3	87-5	87-7	87-9	87-11	88-1	88-2	88-4	88-6	88-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.208

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	1.44	1477	1.42	1500*
20	0	0	0	0.785	0.81	1209	0.78	1255
30	0	0	0	0.785	0.97	1009	0.94	1048
40	0	0	0	0.785	1.13	870	1.09	901
50	0	0	0	0.785	1.27	770	1.23	795
60	0	0	0	0.785	1.41	696	1.37	716
70	0	0	0	0.785	1.54	638	1.5	655
80	0	0	0	0.785	1.66	592	1.62	606
90	0	0	0	0.785	1.77	554	1.74	566
100	0	0	0	0.785	1.85	531	1.84	533
110	0	0	0	0.785	1.91	514	1.91	514
120	0	0	0	0.785	1.97	498	1.97	498
130	0	0	0	0.785	2.03	483	2.03	483
167	0	0	0	0.785	2.25	438	2.25	438
212	0	0	0	0.785	2.49	396	2.48	396

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	5.71	1493	5.68	1500*
20	0	0	0	0.785	5.08	775	5.04	781
30	0	0	0	0.785	5.23	752	5.19	758
40	0	0	0	0.785	5.38	731	5.34	737
50	0	0	0	0.785	5.53	712	5.49	717
60	0	0	0	0.785	5.67	694	5.63	699
70	0	0	0	0.785	5.82	677	5.77	682
80	0	0	0	0.785	5.95	662	5.91	667
90	0	0	0	0.785	6.09	647	6.04	652
100	0	0	0	0.785	6.22	633	6.18	638
110	0	0	0	0.785	6.31	625	6.3	625
120	0	0	0	0.785	6.39	617	6.39	617
130	0	0	0	0.785	6.47	610	6.47	610
167	0	0	0	0.785	6.75	584	6.75	584
212	0	0	0	0.785	7.09	556	7.09	556

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.209

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	12.86	1497	12.83	1500*
20	0	0	0	0.785	12.24	727	12.2	729
30	0	0	0	0.785	12.39	718	12.34	720
40	0	0	0	0.785	12.53	710	12.49	712
50	0	0	0	0.785	12.68	701	12.64	704
60	0	0	0	0.785	12.83	694	12.78	696
70	0	0	0	0.785	12.97	686	12.93	688
80	0	0	0	0.785	13.11	679	13.07	681
90	0	0	0	0.785	13.25	672	13.21	674
100	0	0	0	0.785	13.39	665	13.35	667
110	0	0	0	0.785	13.5	660	13.48	660
120	0	0	0	0.785	13.59	655	13.59	655
130	0	0	0	0.785	13.67	651	13.67	651
167	0	0	0	0.785	13.99	637	13.99	637
212	0	0	0	0.785	14.37	620	14.37	620

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	22.97	1498	22.95	1500*
20	0	0	0	0.785	22.35	711	22.31	712
30	0	0	0	0.785	22.5	707	22.46	708
40	0	0	0	0.785	22.65	702	22.61	703
50	0	0	0	0.785	22.79	698	22.75	699
60	0	0	0	0.785	22.94	693	22.9	695
70	0	0	0	0.785	23.08	689	23.04	691
80	0	0	0	0.785	23.23	685	23.18	686
90	0	0	0	0.785	23.37	681	23.32	682
100	0	0	0	0.785	23.51	677	23.47	678
110	0	0	0	0.785	23.63	674	23.61	674
120	0	0	0	0.785	23.72	671	23.72	671
130	0	0	0	0.785	23.81	669	23.81	669
167	0	0	0	0.785	24.14	660	24.14	660
212	0	0	0	0.785	24.54	649	24.54	649

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	36.15	1499	36.13	1500*
20	0	0	0	0.785	35.53	704	35.49	705
30	0	0	0	0.785	35.68	702	35.64	702
40	0	0	0	0.785	35.83	699	35.79	700
50	0	0	0	0.785	35.97	696	35.93	697
60	0	0	0	0.785	36.12	693	36.08	694
70	0	0	0	0.785	36.26	691	36.22	692
80	0	0	0	0.785	36.41	688	36.36	689
90	0	0	0	0.785	36.55	685	36.51	686
100	0	0	0	0.785	36.7	683	36.65	684
110	0	0	0	0.785	36.82	681	36.79	681
120	0	0	0	0.785	36.91	679	36.91	679
130	0	0	0	0.785	37	678	37	678
167	0	0	0	0.785	37.34	672	37.34	672
212	0	0	0	0.785	37.75	665	37.75	665

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.211

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1
100.00	0-9	0-11	1-1	1-3	1-4	1-6	1-7	1-9	1-10	1-11
125.00	1-3	1-6	1-8	1-11	2-2	2-4	2-6	2-9	2-11	3-0
150.00	1-9	2-1	2-5	2-9	3-1	3-5	3-8	3-11	4-2	4-4
175.00	2-5	2-10	3-4	3-9	4-2	4-7	5-0	5-4	5-8	5-10
200.00	3-2	3-9	4-4	4-11	5-6	6-0	6-6	6-11	7-5	7-8

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1
100.00	0-10	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-10	1-11
125.00	1-3	1-6	1-9	2-0	2-2	2-5	2-7	2-9	2-11	3-0
150.00	1-10	2-2	2-6	2-10	3-2	3-6	3-9	4-0	4-2	4-4
175.00	2-6	3-0	3-5	3-11	4-4	4-9	5-1	5-5	5-8	5-10
200.00	3-3	3-11	4-6	5-1	5-8	6-2	6-8	7-1	7-5	7-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-3	1-4	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7
125.00	2-0	2-0	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-6
150.00	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7
175.00	3-10	4-0	4-1	4-2	4-4	4-5	4-6	4-8	4-9	4-10
200.00	5-0	5-2	5-4	5-6	5-8	5-9	5-11	6-1	6-2	6-4
225.00	6-4	6-7	6-9	6-11	7-2	7-4	7-6	7-8	7-10	8-0
250.00	7-10	8-1	8-4	8-7	8-10	9-0	9-3	9-5	9-8	9-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-3	1-4	1-4	1-5	1-5	1-5	1-6	1-6	1-7	1-7
125.00	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-5	2-5	2-6
150.00	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7
175.00	3-11	4-0	4-1	4-3	4-4	4-5	4-7	4-8	4-9	4-10
200.00	5-1	5-3	5-5	5-6	5-8	5-10	5-11	6-1	6-3	6-4
225.00	6-5	6-7	6-10	7-0	7-2	7-4	7-6	7-8	7-11	8-0
250.00	7-11	8-2	8-5	8-8	8-10	9-1	9-4	9-6	9-9	9-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.213

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-1	3-1	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-4
175.00	4-2	4-2	4-3	4-4	4-4	4-5	4-5	4-6	4-6	4-7
200.00	5-5	5-6	5-7	5-7	5-8	5-9	5-10	5-10	5-11	6-0
225.00	6-10	6-11	7-0	7-1	7-2	7-3	7-4	7-5	7-6	7-7
250.00	8-6	8-7	8-8	8-9	8-10	9-0	9-1	9-2	9-3	9-4
275.00	10-3	10-4	10-6	10-7	10-9	10-10	11-0	11-1	11-3	11-4
300.00	12-2	12-4	12-6	12-8	12-9	12-11	13-1	13-2	13-4	13-6
325.00	14-4	14-6	14-8	14-10	15-0	15-2	15-4	15-6	15-8	15-10
350.00	16-7	16-10	17-0	17-3	17-5	17-7	17-10	18-0	18-2	18-4
375.00	19-1	19-4	19-7	19-9	20-0	20-3	20-5	20-8	20-11	21-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-1	3-1	3-2	3-2	3-2	3-3	3-3	3-4	3-4	3-4
175.00	4-2	4-2	4-3	4-4	4-4	4-5	4-5	4-6	4-7	4-7
200.00	5-5	5-6	5-7	5-8	5-8	5-9	5-10	5-11	5-11	6-0
225.00	6-11	7-0	7-1	7-2	7-2	7-3	7-4	7-5	7-6	7-7
250.00	8-6	8-7	8-8	8-10	8-11	9-0	9-1	9-2	9-4	9-4
275.00	10-3	10-5	10-6	10-8	10-9	10-11	11-0	11-2	11-3	11-4
300.00	12-3	12-5	12-6	12-8	12-10	13-0	13-1	13-3	13-5	13-6
325.00	14-4	14-6	14-9	14-11	15-1	15-3	15-5	15-7	15-9	15-10
350.00	16-8	16-10	17-1	17-3	17-6	17-8	17-10	18-1	18-3	18-5
375.00	19-2	19-5	19-7	19-10	20-1	20-4	20-6	20-9	20-11	21-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.214

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-7	5-7	5-8	5-8	5-8	5-9	5-9	5-10	5-10	5-11
225.00	7-0	7-1	7-2	7-2	7-3	7-3	7-4	7-4	7-5	7-5
250.00	8-8	8-9	8-10	8-10	8-11	9-0	9-0	9-1	9-2	9-2
275.00	10-6	10-7	10-8	10-9	10-10	10-10	10-11	11-0	11-1	11-2
300.00	12-6	12-7	12-8	12-9	12-10	12-11	13-0	13-1	13-2	13-3
325.00	14-9	14-10	14-11	15-0	15-1	15-2	15-3	15-4	15-6	15-7
350.00	17-1	17-2	17-3	17-5	17-6	17-7	17-9	17-10	17-11	18-1
375.00	19-7	19-9	19-10	20-0	20-1	20-3	20-4	20-6	20-7	20-9
400.00	22-4	22-6	22-7	22-9	22-11	23-0	23-2	23-4	23-6	23-7
425.00	25-2	25-4	25-6	25-8	25-10	26-0	26-2	26-4	26-6	26-8
450.00	28-3	28-5	28-8	28-10	29-0	29-2	29-4	29-7	29-9	29-11
475.00	31-6	31-9	31-11	32-2	32-4	32-7	32-9	32-11	33-2	33-4
500.00	34-11	35-2	35-5	35-8	35-10	36-1	36-4	36-6	36-9	37-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-7	5-7	5-8	5-8	5-9	5-9	5-9	5-10	5-10	5-11
225.00	7-1	7-1	7-2	7-2	7-3	7-3	7-4	7-4	7-5	7-5
250.00	8-9	8-9	8-10	8-11	8-11	9-0	9-1	9-1	9-2	9-2
275.00	10-6	10-7	10-8	10-9	10-10	10-11	10-11	11-0	11-1	11-2
300.00	12-7	12-8	12-9	12-10	12-11	13-0	13-0	13-1	13-2	13-3
325.00	14-9	14-10	14-11	15-0	15-1	15-3	15-4	15-5	15-6	15-7
350.00	17-1	17-3	17-4	17-5	17-7	17-8	17-9	17-10	18-0	18-1
375.00	19-8	19-9	19-11	20-0	20-2	20-3	20-5	20-6	20-8	20-9
400.00	22-4	22-6	22-8	22-10	22-11	23-1	23-3	23-4	23-6	23-8
425.00	25-3	25-5	25-7	25-9	25-11	26-1	26-3	26-5	26-7	26-8
450.00	28-4	28-6	28-8	28-11	29-1	29-3	29-5	29-7	29-10	29-11
475.00	31-7	31-9	32-0	32-2	32-5	32-7	32-10	33-0	33-3	33-5
500.00	35-0	35-3	35-6	35-8	35-11	36-2	36-5	36-7	36-10	37-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.215

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-10	8-10	8-11	8-11	9-0	9-0	9-1	9-1	9-1	9-2
275.00	10-8	10-9	10-9	10-10	10-10	10-11	10-11	11-0	11-0	11-1
300.00	12-9	12-9	12-10	12-11	12-11	13-0	13-0	13-1	13-2	13-2
325.00	14-11	15-0	15-1	15-1	15-2	15-3	15-4	15-4	15-5	15-6
350.00	17-4	17-5	17-6	17-7	17-7	17-8	17-9	17-10	17-11	18-0
375.00	19-11	20-0	20-1	20-2	20-3	20-4	20-5	20-6	20-7	20-8
400.00	22-8	22-9	22-10	22-11	23-0	23-1	23-3	23-4	23-5	23-6
425.00	25-7	25-8	25-10	25-11	26-0	26-1	26-3	26-4	26-5	26-6
450.00	28-9	28-10	28-11	29-1	29-2	29-4	29-5	29-6	29-8	29-9
475.00	32-0	32-2	32-3	32-5	32-6	32-8	32-10	32-11	33-1	33-2
500.00	35-6	35-8	35-9	35-11	36-1	36-3	36-4	36-6	36-8	36-9
525.00	39-2	39-4	39-6	39-8	39-10	40-0	40-1	40-3	40-5	40-7
550.00	43-0	43-2	43-4	43-6	43-9	43-11	44-1	44-3	44-5	44-7
575.00	47-1	47-3	47-5	47-7	47-10	48-0	48-2	48-5	48-7	48-9
600.00	51-3	51-6	51-8	51-11	52-1	52-4	52-6	52-9	52-11	53-2
625.00	55-8	55-11	56-2	56-4	56-7	56-10	57-0	57-3	57-6	57-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-10	8-11	8-11	8-11	9-0	9-0	9-1	9-1	9-2	9-2
275.00	10-8	10-9	10-9	10-10	10-10	10-11	11-0	11-0	11-1	11-1
300.00	12-9	12-9	12-10	12-11	12-11	13-0	13-1	13-1	13-2	13-2
325.00	14-11	15-0	15-1	15-2	15-2	15-3	15-4	15-5	15-5	15-6
350.00	17-4	17-5	17-6	17-7	17-8	17-8	17-9	17-10	17-11	18-0
375.00	19-11	20-0	20-1	20-2	20-3	20-4	20-5	20-6	20-7	20-8
400.00	22-8	22-9	22-10	23-0	23-1	23-2	23-3	23-4	23-5	23-6
425.00	25-8	25-9	25-10	25-11	26-1	26-2	26-3	26-4	26-6	26-7
450.00	28-9	28-10	29-0	29-1	29-3	29-4	29-5	29-7	29-8	29-9
475.00	32-1	32-2	32-4	32-5	32-7	32-8	32-10	33-0	33-1	33-2
500.00	35-6	35-8	35-10	36-0	36-1	36-3	36-5	36-7	36-8	36-10
525.00	39-2	39-4	39-6	39-8	39-10	40-0	40-2	40-4	40-6	40-7
550.00	43-1	43-3	43-5	43-7	43-9	43-11	44-1	44-4	44-6	44-7
575.00	47-1	47-3	47-6	47-8	47-10	48-1	48-3	48-5	48-8	48-10
600.00	51-4	51-6	51-9	51-11	52-2	52-5	52-7	52-10	53-0	53-2
625.00	55-9	56-0	56-2	56-5	56-8	56-11	57-1	57-4	57-7	57-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.216

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	1.12	1889	1.06	2000*
20	0	0	0	0.785	0.45	2178	0.41	2369
30	0	0	0	0.785	0.57	1716	0.51	1923
40	0	0	0	0.785	0.72	1362	0.64	1545
50	0	0	0	0.785	0.88	1114	0.78	1255
60	0	0	0	0.785	1.04	943	0.94	1047
70	0	0	0	0.785	1.19	823	1.09	901
80	0	0	0	0.785	1.34	736	1.24	794
90	0	0	0	0.785	1.47	669	1.37	715
100	0	0	0	0.785	1.55	636	1.5	654
110	0	0	0	0.785	1.62	607	1.62	607
120	0	0	0	0.785	1.68	583	1.68	583
130	0	0	0	0.785	1.75	561	1.75	561
167	0	0	0	0.785	1.98	496	1.98	496
212	0	0	0	0.785	2.24	438	2.24	438

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	4.34	1963	4.25	2000*
20	0	0	0	0.785	3.43	1146	3.31	1188
30	0	0	0	0.785	3.64	1080	3.52	1117
40	0	0	0	0.785	3.84	1023	3.72	1056
50	0	0	0	0.785	4.04	974	3.92	1004
60	0	0	0	0.785	4.23	931	4.11	958
70	0	0	0	0.785	4.41	892	4.29	917
80	0	0	0	0.785	4.58	858	4.46	881
90	0	0	0	0.785	4.75	828	4.64	849
100	0	0	0	0.785	4.92	800	4.8	819
110	0	0	0	0.785	5.04	781	4.96	793
120	0	0	0	0.785	5.13	766	5.12	769
130	0	0	0	0.785	5.23	752	5.23	752
167	0	0	0	0.785	5.57	707	5.57	707
212	0	0	0	0.785	5.96	661	5.96	661

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.217

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.698	9.68	1982	9.59	2000*
20	0	0	0	0.785	8.77	1010	8.65	1024
30	0	0	0	0.785	8.98	987	8.85	1001
40	0	0	0	0.785	9.18	966	9.05	979
50	0	0	0	0.785	9.37	946	9.25	959
60	0	0	0	0.785	9.56	927	9.44	939
70	0	0	0	0.785	9.75	909	9.63	921
80	0	0	0	0.785	9.94	893	9.81	904
90	0	0	0	0.785	10.12	877	10	887
100	0	0	0	0.785	10.3	862	10.17	872
110	0	0	0	0.785	10.47	847	10.35	857
120	0	0	0	0.785	10.58	839	10.52	843
130	0	0	0	0.785	10.69	830	10.69	830
167	0	0	0	0.785	11.09	801	11.09	801
212	0	0	0	0.785	11.55	769	11.55	769

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.698	17.2	1990	17.11	2000*
20	0	0	0	0.785	16.29	970	16.17	977
30	0	0	0	0.785	16.49	958	16.37	965
40	0	0	0	0.785	16.69	947	16.57	954
50	0	0	0	0.785	16.89	936	16.76	943
60	0	0	0	0.785	17.08	926	16.95	933
70	0	0	0	0.785	17.27	916	17.14	922
80	0	0	0	0.785	17.46	906	17.33	913
90	0	0	0	0.785	17.65	897	17.52	903
100	0	0	0	0.785	17.83	887	17.7	894
110	0	0	0	0.785	18.02	879	17.89	885
120	0	0	0	0.785	18.15	872	18.07	876
130	0	0	0	0.785	18.26	867	18.25	868
167	0	0	0	0.785	18.69	847	18.69	847
212	0	0	0	0.785	19.19	826	19.19	826

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	26.93	1994	26.85	2000*
20	0	0	0	0.785	26.03	953	25.91	957
30	0	0	0	0.785	26.23	946	26.11	950
40	0	0	0	0.785	26.42	939	26.3	943
50	0	0	0	0.785	26.62	932	26.5	936
60	0	0	0	0.785	26.81	925	26.69	930
70	0	0	0	0.785	27.01	919	26.88	923
80	0	0	0	0.785	27.2	913	27.07	917
90	0	0	0	0.785	27.39	906	27.26	911
100	0	0	0	0.785	27.58	900	27.45	905
110	0	0	0	0.785	27.76	894	27.63	899
120	0	0	0	0.785	27.91	890	27.82	893
130	0	0	0	0.785	28.03	886	28	887
167	0	0	0	0.785	28.47	873	28.47	873
212	0	0	0	0.785	28.99	858	28.99	858

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11
100.00	0-5	0-6	0-8	0-9	0-11	1-1	1-3	1-4	1-6	1-7
125.00	0-8	0-10	1-0	1-3	1-6	1-8	1-11	2-2	2-4	2-6
150.00	0-11	1-2	1-5	1-9	2-1	2-5	2-9	3-1	3-5	3-8
175.00	1-3	1-7	1-11	2-5	2-10	3-4	3-9	4-2	4-7	4-11
200.00	1-8	2-0	2-6	3-2	3-9	4-4	4-11	5-6	6-0	6-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11
100.00	0-5	0-7	0-9	0-11	1-0	1-2	1-4	1-6	1-7	1-7
125.00	0-8	0-11	1-2	1-5	1-8	1-10	2-1	2-4	2-5	2-6
150.00	1-0	1-3	1-7	2-0	2-4	2-8	3-0	3-4	3-6	3-8
175.00	1-5	1-9	2-2	2-8	3-2	3-8	4-1	4-6	4-9	4-11
200.00	1-10	2-3	2-11	3-6	4-2	4-9	5-4	5-11	6-2	6-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.220

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-10	1-11
150.00	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-7	2-8	2-9
175.00	2-6	2-8	2-10	3-0	3-2	3-3	3-5	3-7	3-8	3-10
200.00	3-4	3-6	3-9	3-11	4-1	4-3	4-6	4-8	4-10	5-0
225.00	4-2	4-5	4-9	4-11	5-2	5-5	5-8	5-10	6-1	6-3
250.00	5-2	5-6	5-10	6-1	6-5	6-8	7-0	7-3	7-6	7-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-11	2-0
150.00	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-8	2-9	2-10
175.00	2-8	2-9	2-11	3-1	3-3	3-4	3-6	3-8	3-9	3-10
200.00	3-5	3-8	3-10	4-0	4-3	4-5	4-7	4-9	4-11	5-0
225.00	4-4	4-7	4-10	5-1	5-4	5-7	5-10	6-0	6-3	6-5
250.00	5-4	5-8	6-0	6-4	6-7	6-11	7-2	7-5	7-8	7-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.221

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-3	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-7
175.00	2-11	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-6
200.00	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7
225.00	4-10	5-0	5-1	5-2	5-4	5-5	5-6	5-7	5-9	5-10
250.00	6-0	6-2	6-3	6-5	6-7	6-8	6-10	6-11	7-1	7-2
275.00	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-7	8-8
300.00	8-8	8-10	9-1	9-3	9-5	9-8	9-10	10-0	10-2	10-4
325.00	10-2	10-5	10-8	10-10	11-1	11-4	11-6	11-9	11-11	12-2
350.00	11-9	12-1	12-4	12-7	12-10	13-1	13-4	13-7	13-10	14-1
375.00	13-6	13-10	14-2	14-6	14-9	15-1	15-4	15-8	15-11	16-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-7	2-7
175.00	3-0	3-1	3-1	3-2	3-3	3-4	3-5	3-5	3-6	3-7
200.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
225.00	4-11	5-1	5-2	5-3	5-5	5-6	5-7	5-8	5-9	5-11
250.00	6-1	6-3	6-4	6-6	6-8	6-9	6-11	7-0	7-2	7-3
275.00	7-4	7-6	7-9	7-10	8-0	8-2	8-4	8-6	8-8	8-10
300.00	8-9	9-0	9-2	9-4	9-7	9-9	9-11	10-1	10-4	10-6
325.00	10-4	10-6	10-9	11-0	11-3	11-5	11-8	11-11	12-1	12-4
350.00	11-11	12-3	12-6	12-9	13-0	13-3	13-6	13-9	14-0	14-3
375.00	13-9	14-0	14-4	14-8	14-11	15-3	15-6	15-10	16-1	16-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-0	4-1	4-2	4-2	4-3	4-3	4-4	4-4	4-5	4-6
225.00	5-1	5-2	5-3	5-4	5-4	5-5	5-6	5-6	5-7	5-8
250.00	6-4	6-5	6-6	6-6	6-7	6-8	6-9	6-10	6-11	7-0
275.00	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-4	8-5
300.00	9-1	9-2	9-4	9-5	9-6	9-8	9-9	9-10	9-11	10-1
325.00	10-8	10-10	10-11	11-1	11-2	11-4	11-5	11-7	11-8	11-10
350.00	12-5	12-6	12-8	12-10	13-0	13-1	13-3	13-5	13-7	13-8
375.00	14-3	14-5	14-7	14-9	14-11	15-1	15-3	15-5	15-7	15-9
400.00	16-2	16-4	16-7	16-9	16-11	17-2	17-4	17-6	17-8	17-11
425.00	18-3	18-6	18-9	18-11	19-2	19-4	19-7	19-9	20-0	20-2
450.00	20-6	20-9	21-0	21-3	21-6	21-9	21-11	22-2	22-5	22-8
475.00	22-10	23-1	23-5	23-8	23-11	24-2	24-6	24-9	25-0	25-3
500.00	25-4	25-7	25-11	26-3	26-6	26-10	27-1	27-5	27-8	28-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-1	4-1	4-2	4-3	4-3	4-4	4-4	4-5	4-5	4-6
225.00	5-2	5-3	5-3	5-4	5-5	5-5	5-6	5-7	5-8	5-8
250.00	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11	6-11	7-0
275.00	7-8	7-9	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6
300.00	9-2	9-3	9-5	9-6	9-7	9-8	9-10	9-11	10-0	10-1
325.00	10-9	10-11	11-0	11-2	11-3	11-5	11-6	11-8	11-9	11-11
350.00	12-6	12-7	12-9	12-11	13-1	13-3	13-4	13-6	13-8	13-9
375.00	14-4	14-6	14-8	14-10	15-0	15-2	15-4	15-6	15-8	15-10
400.00	16-4	16-6	16-8	16-11	17-1	17-3	17-6	17-8	17-10	18-0
425.00	18-5	18-7	18-10	19-1	19-3	19-6	19-9	19-11	20-2	20-4
450.00	20-8	20-11	21-2	21-5	21-8	21-10	22-1	22-4	22-7	22-10
475.00	23-0	23-3	23-7	23-10	24-1	24-5	24-8	24-11	25-2	25-5
500.00	25-6	25-10	26-1	26-5	26-9	27-0	27-4	27-7	27-11	28-2

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STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.223

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-6	6-6	6-7	6-7	6-8	6-8	6-9	6-10	6-10	6-11
275.00	7-10	7-11	7-11	8-0	8-1	8-1	8-2	8-3	8-3	8-4
300.00	9-4	9-5	9-5	9-6	9-7	9-8	9-9	9-9	9-10	9-11
325.00	10-11	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8
350.00	12-8	12-9	12-10	13-0	13-1	13-2	13-3	13-4	13-5	13-6
375.00	14-7	14-8	14-9	14-11	15-0	15-1	15-2	15-4	15-5	15-6
400.00	16-7	16-8	16-10	16-11	17-1	17-2	17-4	17-5	17-6	17-8
425.00	18-8	18-10	19-0	19-1	19-3	19-5	19-6	19-8	19-10	19-11
450.00	21-0	21-2	21-3	21-5	21-7	21-9	21-11	22-1	22-3	22-4
475.00	23-5	23-7	23-9	23-11	24-1	24-3	24-5	24-7	24-9	24-11
500.00	25-11	26-1	26-4	26-6	26-8	26-11	27-1	27-3	27-5	27-8
525.00	28-7	28-10	29-0	29-3	29-5	29-8	29-10	30-1	30-3	30-6
550.00	31-5	31-7	31-10	32-1	32-4	32-7	32-9	33-0	33-3	33-6
575.00	34-4	34-7	34-10	35-1	35-4	35-7	35-10	36-1	36-4	36-7
600.00	37-4	37-8	37-11	38-3	38-6	38-9	39-1	39-4	39-7	39-10
625.00	40-7	40-11	41-2	41-6	41-9	42-1	42-5	42-8	43-0	43-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-6	6-6	6-7	6-8	6-8	6-9	6-9	6-10	6-10	6-11
275.00	7-10	7-11	8-0	8-0	8-1	8-2	8-2	8-3	8-4	8-4
300.00	9-4	9-5	9-6	9-7	9-8	9-8	9-9	9-10	9-11	10-0
325.00	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-7	11-8
350.00	12-9	12-10	12-11	13-0	13-1	13-2	13-4	13-5	13-6	13-7
375.00	14-7	14-9	14-10	14-11	15-1	15-2	15-3	15-5	15-6	15-7
400.00	16-8	16-9	16-11	17-0	17-2	17-3	17-5	17-6	17-7	17-9
425.00	18-9	18-11	19-1	19-3	19-4	19-6	19-8	19-9	19-11	20-0
450.00	21-1	21-3	21-5	21-7	21-8	21-10	22-0	22-2	22-4	22-6
475.00	23-6	23-8	23-10	24-0	24-2	24-4	24-6	24-8	24-11	25-1
500.00	26-0	26-3	26-5	26-7	26-10	27-0	27-2	27-5	27-7	27-9
525.00	28-9	28-11	29-2	29-4	29-7	29-9	30-0	30-2	30-5	30-7
550.00	31-6	31-9	32-0	32-3	32-6	32-8	32-11	33-2	33-5	33-7
575.00	34-6	34-9	35-0	35-3	35-6	35-9	36-0	36-3	36-6	36-9
600.00	37-7	37-10	38-1	38-5	38-8	38-11	39-3	39-6	39-9	40-1
625.00	40-9	41-1	41-4	41-8	42-0	42-3	42-7	42-11	43-2	43-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.224

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	0.95	2241	0.85	2500*
20	0	0	0	0.785	0.33	2963	0.3	3300
30	0	0	0	0.785	0.41	2396	0.35	2795
40	0	0	0	0.785	0.52	1896	0.42	2309
50	0	0	0	0.785	0.66	1496	0.53	1867
60	0	0	0	0.785	0.81	1206	0.65	1499
70	0	0	0	0.785	0.98	1006	0.8	1221
80	0	0	0	0.785	1.13	868	0.96	1023
90	0	0	0	0.785	1.27	772	1.11	883
100	0	0	0	0.785	1.34	731	1.26	781
110	0	0	0	0.785	1.42	694	1.39	705
120	0	0	0	0.785	1.49	658	1.49	658
130	0	0	0	0.785	1.56	629	1.56	629
167	0	0	0	0.785	1.81	544	1.81	544
212	0	0	0	0.785	2.08	472	2.08	472

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	3.55	2397	3.4	2500*
20	0	0	0	0.785	2.39	1643	2.17	1806
30	0	0	0	0.785	2.64	1487	2.42	1625
40	0	0	0	0.785	2.89	1362	2.66	1478
50	0	0	0	0.785	3.12	1260	2.89	1358
60	0	0	0	0.785	3.34	1176	3.12	1259
70	0	0	0	0.785	3.56	1105	3.34	1177
80	0	0	0	0.785	3.76	1045	3.55	1107
90	0	0	0	0.785	3.96	993	3.75	1048
100	0	0	0	0.785	4.15	947	3.95	996
110	0	0	0	0.785	4.3	915	4.14	951
120	0	0	0	0.785	4.4	893	4.32	911
130	0	0	0	0.785	4.51	873	4.49	875
167	0	0	0	0.785	4.89	805	4.89	805
212	0	0	0	0.785	5.31	741	5.31	741

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.225

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	7.83	2448	7.66	2500*
20	0	0	0	0.785	6.61	1338	6.38	1387
30	0	0	0	0.785	6.87	1288	6.63	1334
40	0	0	0	0.785	7.12	1243	6.88	1286
50	0	0	0	0.785	7.36	1203	7.13	1242
60	0	0	0	0.785	7.6	1165	7.36	1202
70	0	0	0	0.785	7.83	1131	7.6	1166
80	0	0	0	0.785	8.05	1100	7.82	1132
90	0	0	0	0.785	8.27	1071	8.04	1101
100	0	0	0	0.785	8.48	1044	8.26	1072
110	0	0	0	0.785	8.69	1019	8.47	1046
120	0	0	0	0.785	8.85	1002	8.68	1021
130	0	0	0	0.785	8.97	988	8.88	998
167	0	0	0	0.785	9.43	941	9.43	941
212	0	0	0	0.785	9.95	892	9.95	892

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	13.82	2470	13.65	2500*
20	0	0	0	0.785	12.6	1251	12.37	1274
30	0	0	0	0.785	12.85	1227	12.62	1249
40	0	0	0	0.785	13.1	1204	12.86	1225
50	0	0	0	0.785	13.34	1182	13.11	1203
60	0	0	0	0.785	13.58	1161	13.35	1182
70	0	0	0	0.785	13.82	1142	13.58	1161
80	0	0	0	0.785	14.05	1123	13.82	1142
90	0	0	0	0.785	14.28	1105	14.04	1123
100	0	0	0	0.785	14.5	1088	14.27	1106
110	0	0	0	0.785	14.73	1072	14.49	1089
120	0	0	0	0.785	14.93	1057	14.71	1073
130	0	0	0	0.785	15.07	1048	14.93	1057
167	0	0	0	0.785	15.57	1014	15.57	1014
212	0	0	0	0.785	16.15	978	16.15	978

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.226

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	21.56	2480	21.39	2500*
20	0	0	0	0.785	20.34	1214	20.1	1228
30	0	0	0	0.785	20.59	1200	20.35	1213
40	0	0	0	0.785	20.83	1186	20.6	1199
50	0	0	0	0.785	21.08	1172	20.84	1185
60	0	0	0	0.785	21.32	1159	21.08	1172
70	0	0	0	0.785	21.55	1147	21.32	1159
80	0	0	0	0.785	21.79	1134	21.55	1147
90	0	0	0	0.785	22.02	1122	21.79	1135
100	0	0	0	0.785	22.26	1111	22.02	1123
110	0	0	0	0.785	22.49	1100	22.25	1111
120	0	0	0	0.785	22.71	1089	22.47	1100
130	0	0	0	0.785	22.87	1082	22.7	1090
167	0	0	0	0.785	23.4	1058	23.4	1058
212	0	0	0	0.785	24.01	1031	24.01	1031

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.227

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-4	0-4	0-5	0-6	0-8	0-8	0-9
100.00	0-4	0-4	0-5	0-6	0-8	0-10	1-0	1-1	1-3	1-5
125.00	0-6	0-7	0-8	0-10	1-0	1-3	1-6	1-9	2-0	2-2
150.00	0-8	0-9	0-11	1-2	1-6	1-10	2-2	2-6	2-10	3-2
175.00	0-11	1-1	1-4	1-7	2-0	2-6	2-11	3-5	3-10	4-3
200.00	1-2	1-5	1-8	2-1	2-7	3-3	3-10	4-5	5-0	5-7

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-7	0-8	0-9	0-9	0-10
100.00	0-4	0-5	0-6	0-8	0-10	1-0	1-2	1-3	1-4	1-5
125.00	0-6	0-8	0-10	1-0	1-3	1-6	1-9	2-0	2-1	2-3
150.00	0-9	0-11	1-2	1-6	1-10	2-2	2-7	2-10	3-0	3-2
175.00	1-0	1-3	1-7	2-0	2-6	3-0	3-6	3-11	4-1	4-4
200.00	1-4	1-8	2-1	2-7	3-3	3-11	4-6	5-1	5-5	5-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.228

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0
125.00	0-10	0-11	1-0	1-2	1-3	1-4	1-5	1-6	1-6	1-7
150.00	1-3	1-4	1-6	1-8	1-9	1-11	2-0	2-1	2-3	2-4
175.00	1-8	1-10	2-0	2-3	2-5	2-7	2-9	2-10	3-0	3-2
200.00	2-2	2-5	2-8	2-11	3-1	3-4	3-7	3-9	3-11	4-2
225.00	2-9	3-1	3-4	3-8	3-11	4-3	4-6	4-9	5-0	5-3
250.00	3-5	3-9	4-2	4-6	4-11	5-3	5-7	5-10	6-2	6-6

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1
125.00	0-11	1-0	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8
150.00	1-4	1-6	1-7	1-9	1-11	2-0	2-1	2-3	2-4	2-5
175.00	1-10	2-0	2-3	2-5	2-7	2-9	2-11	3-0	3-2	3-3
200.00	2-5	2-8	2-11	3-1	3-4	3-7	3-9	4-0	4-2	4-4
225.00	3-0	3-4	3-8	3-11	4-3	4-6	4-9	5-0	5-3	5-5
250.00	3-9	4-2	4-6	4-10	5-3	5-7	5-11	6-2	6-6	6-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.229

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-1	2-1
175.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
200.00	2-10	2-11	3-1	3-2	3-3	3-4	3-6	3-7	3-8	3-9
225.00	3-7	3-9	3-10	4-0	4-2	4-3	4-5	4-6	4-8	4-9
250.00	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11
275.00	5-4	5-7	5-9	6-0	6-2	6-5	6-7	6-9	6-11	7-1
300.00	6-5	6-8	6-11	7-2	7-4	7-7	7-10	8-1	8-3	8-6
325.00	7-6	7-9	8-1	8-4	8-8	8-11	9-2	9-5	9-8	9-11
350.00	8-8	9-0	9-4	9-8	10-0	10-4	10-8	10-11	11-3	11-6
375.00	10-0	10-4	10-9	11-2	11-6	11-11	12-3	12-7	12-11	13-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2
175.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11
200.00	2-11	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-9	3-10
225.00	3-9	3-10	4-0	4-2	4-3	4-5	4-6	4-8	4-9	4-11
250.00	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-0
275.00	5-7	5-9	6-0	6-2	6-5	6-7	6-9	6-11	7-2	7-4
300.00	6-7	6-10	7-1	7-4	7-7	7-10	8-1	8-3	8-6	8-8
325.00	7-9	8-1	8-4	8-8	8-11	9-2	9-5	9-8	10-0	10-2
350.00	9-0	9-4	9-8	10-0	10-4	10-8	11-0	11-3	11-7	11-10
375.00	10-4	10-9	11-2	11-6	11-11	12-3	12-7	12-11	13-3	13-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.230

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-1	3-2	3-3	3-3	3-4	3-5	3-5	3-6	3-7	3-7
225.00	3-11	4-0	4-1	4-2	4-3	4-4	4-4	4-5	4-6	4-7
250.00	4-10	4-11	5-0	5-1	5-3	5-4	5-5	5-6	5-7	5-8
275.00	5-10	6-0	6-1	6-2	6-4	6-5	6-6	6-8	6-9	6-10
300.00	6-11	7-1	7-3	7-4	7-6	7-8	7-9	7-11	8-0	8-2
325.00	8-2	8-4	8-6	8-8	8-10	9-0	9-1	9-3	9-5	9-7
350.00	9-6	9-8	9-10	10-0	10-3	10-5	10-7	10-9	10-11	11-1
375.00	10-10	11-1	11-4	11-6	11-9	11-11	12-2	12-4	12-6	12-9
400.00	12-4	12-7	12-10	13-1	13-4	13-7	13-10	14-1	14-3	14-6
425.00	14-0	14-3	14-6	14-10	15-1	15-4	15-7	15-10	16-1	16-4
450.00	15-8	16-0	16-3	16-7	16-11	17-2	17-6	17-9	18-1	18-4
475.00	17-5	17-10	18-2	18-6	18-10	19-2	19-6	19-10	20-2	20-5
500.00	19-4	19-9	20-1	20-6	20-10	21-3	21-7	22-0	22-4	22-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-2	3-3	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8
225.00	4-0	4-1	4-2	4-3	4-4	4-4	4-5	4-6	4-7	4-8
250.00	4-11	5-0	5-1	5-2	5-4	5-5	5-6	5-7	5-8	5-9
275.00	5-11	6-1	6-2	6-4	6-5	6-6	6-8	6-9	6-10	6-11
300.00	7-1	7-3	7-4	7-6	7-8	7-9	7-11	8-0	8-2	8-3
325.00	8-4	8-6	8-8	8-10	9-0	9-1	9-3	9-5	9-7	9-9
350.00	9-8	9-10	10-0	10-3	10-5	10-7	10-9	10-11	11-1	11-3
375.00	11-1	11-4	11-6	11-9	11-11	12-2	12-4	12-7	12-9	12-11
400.00	12-7	12-10	13-1	13-4	13-7	13-10	14-1	14-3	14-6	14-9
425.00	14-3	14-6	14-9	15-1	15-4	15-7	15-10	16-1	16-5	16-8
450.00	15-11	16-3	16-7	16-11	17-2	17-6	17-9	18-1	18-4	18-8
475.00	17-9	18-2	18-6	18-10	19-2	19-6	19-10	20-2	20-6	20-9
500.00	19-8	20-1	20-6	20-10	21-3	21-7	22-0	22-4	22-8	23-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.231

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-0	5-1	5-2	5-2	5-3	5-4	5-5	5-5	5-6	5-7
275.00	6-1	6-2	6-3	6-4	6-4	6-5	6-6	6-7	6-8	6-9
300.00	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0
325.00	8-6	8-7	8-8	8-10	8-11	9-0	9-1	9-2	9-3	9-5
350.00	9-10	10-0	10-1	10-2	10-4	10-5	10-7	10-8	10-9	10-11
375.00	11-4	11-5	11-7	11-9	11-10	12-0	12-1	12-3	12-4	12-6
400.00	12-10	13-0	13-2	13-4	13-6	13-8	13-9	13-11	14-1	14-3
425.00	14-6	14-8	14-10	15-1	15-3	15-5	15-7	15-9	15-11	16-1
450.00	16-3	16-6	16-8	16-10	17-1	17-3	17-5	17-8	17-10	18-0
475.00	18-2	18-4	18-7	18-10	19-0	19-3	19-5	19-8	19-10	20-1
500.00	20-1	20-4	20-7	20-10	21-1	21-4	21-7	21-9	22-0	22-3
525.00	22-2	22-5	22-9	23-0	23-3	23-6	23-9	24-0	24-3	24-6
550.00	24-4	24-8	24-11	25-3	25-6	25-10	26-1	26-4	26-8	26-11
575.00	26-7	26-11	27-3	27-7	27-11	28-3	28-6	28-10	29-2	29-5
600.00	29-0	29-4	29-8	30-0	30-5	30-9	31-1	31-5	31-9	32-1
625.00	31-5	31-10	32-3	32-7	33-0	33-4	33-9	34-1	34-5	34-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-1	5-2	5-2	5-3	5-4	5-5	5-5	5-6	5-7	5-7
275.00	6-2	6-3	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-9
300.00	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1
325.00	8-7	8-8	8-9	8-11	9-0	9-1	9-2	9-3	9-5	9-6
350.00	9-11	10-1	10-2	10-4	10-5	10-7	10-8	10-9	10-11	11-0
375.00	11-5	11-7	11-8	11-10	12-0	12-1	12-3	12-4	12-6	12-8
400.00	13-0	13-2	13-4	13-6	13-8	13-9	13-11	14-1	14-3	14-5
425.00	14-8	14-10	15-0	15-3	15-5	15-7	15-9	15-11	16-1	16-3
450.00	16-6	16-8	16-10	17-1	17-3	17-5	17-8	17-10	18-0	18-2
475.00	18-4	18-7	18-10	19-0	19-3	19-5	19-8	19-10	20-1	20-3
500.00	20-4	20-7	20-10	21-1	21-4	21-7	21-9	22-0	22-3	22-6
525.00	22-5	22-8	23-0	23-3	23-6	23-9	24-0	24-3	24-7	24-10
550.00	24-7	24-11	25-3	25-6	25-10	26-1	26-5	26-8	26-11	27-3
575.00	26-11	27-3	27-7	27-11	28-3	28-6	28-10	29-2	29-5	29-9
600.00	29-4	29-8	30-0	30-5	30-9	31-1	31-5	31-9	32-1	32-5
625.00	31-10	32-2	32-7	33-0	33-4	33-9	34-1	34-6	34-10	35-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.232

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	0.83	2549	0.71	3000*
20	0	0	0	0.785	0.28	3544	0.24	4038
30	0	0	0	0.785	0.33	2940	0.28	3525
40	0	0	0	0.785	0.41	2375	0.33	3012
50	0	0	0	0.785	0.52	1878	0.39	2513
60	0	0	0	0.785	0.66	1482	0.48	2047
70	0	0	0	0.785	0.82	1197	0.6	1643
80	0	0	0	0.785	0.98	1000	0.74	1325
90	0	0	0	0.785	1.12	880	0.9	1096
100	0	0	0	0.785	1.19	827	1.05	934
110	0	0	0	0.785	1.26	780	1.2	819
120	0	0	0	0.785	1.34	734	1.34	734
130	0	0	0	0.785	1.41	695	1.41	695
167	0	0	0	0.785	1.67	589	1.67	589
212	0	0	0	0.785	1.96	503	1.96	503

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	3.05	2791	2.83	3000*
20	0	0	0	0.785	1.73	2269	1.48	2657
30	0	0	0	0.785	1.98	1981	1.69	2325
40	0	0	0	0.785	2.24	1754	1.92	2045
50	0	0	0	0.785	2.49	1575	2.16	1817
60	0	0	0	0.785	2.74	1432	2.41	1632
70	0	0	0	0.785	2.98	1318	2.65	1483
80	0	0	0	0.785	3.21	1224	2.88	1362
90	0	0	0	0.785	3.43	1145	3.11	1263
100	0	0	0	0.785	3.64	1079	3.33	1180
110	0	0	0	0.785	3.8	1035	3.54	1109
120	0	0	0	0.785	3.91	1006	3.75	1049
130	0	0	0	0.785	4.02	979	3.94	997
167	0	0	0	0.785	4.42	889	4.42	889
212	0	0	0	0.785	4.88	807	4.88	807

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.233

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	6.63	2888	6.38	3000*
20	0	0	0	0.785	5.12	1728	4.74	1865
30	0	0	0	0.785	5.42	1631	5.04	1753
40	0	0	0	0.785	5.71	1548	5.34	1657
50	0	0	0	0.785	6	1475	5.62	1572
60	0	0	0	0.785	6.27	1411	5.9	1498
70	0	0	0	0.785	6.54	1354	6.17	1433
80	0	0	0	0.785	6.8	1302	6.44	1374
90	0	0	0	0.785	7.05	1256	6.69	1322
100	0	0	0	0.785	7.29	1214	6.94	1275
110	0	0	0	0.785	7.53	1176	7.19	1232
120	0	0	0	0.785	7.72	1147	7.42	1193
130	0	0	0	0.785	7.85	1128	7.65	1157
167	0	0	0	0.785	8.35	1061	8.35	1061
212	0	0	0	0.785	8.92	994	8.92	994

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	11.63	2932	11.36	3000*
20	0	0	0	0.785	10.07	1563	9.69	1624
30	0	0	0	0.785	10.37	1518	9.99	1575
40	0	0	0	0.785	10.67	1476	10.29	1530
50	0	0	0	0.785	10.96	1437	10.58	1488
60	0	0	0	0.785	11.24	1401	10.87	1449
70	0	0	0	0.785	11.52	1368	11.14	1413
80	0	0	0	0.785	11.79	1336	11.42	1379
90	0	0	0	0.785	12.06	1307	11.69	1348
100	0	0	0	0.785	12.32	1279	11.95	1318
110	0	0	0	0.785	12.57	1253	12.21	1290
120	0	0	0	0.785	12.83	1229	12.47	1264
130	0	0	0	0.785	13	1213	12.72	1240
167	0	0	0	0.785	13.57	1163	13.57	1163
212	0	0	0	0.785	14.21	1111	14.21	1111

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.234

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Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	18.06	2955	17.78	3000*
20	0	0	0	0.785	16.49	1494	16.11	1529
30	0	0	0	0.785	16.79	1468	16.41	1502
40	0	0	0	0.785	17.08	1443	16.7	1475
50	0	0	0	0.785	17.37	1419	16.99	1450
60	0	0	0	0.785	17.66	1396	17.28	1426
70	0	0	0	0.785	17.94	1374	17.56	1404
80	0	0	0	0.785	18.22	1354	17.84	1382
90	0	0	0	0.785	18.5	1334	18.12	1361
100	0	0	0	0.785	18.77	1315	18.39	1341
110	0	0	0	0.785	19.03	1296	18.66	1322
120	0	0	0	0.785	19.3	1279	18.92	1304
130	0	0	0	0.785	19.53	1264	19.19	1286
167	0	0	0	0.785	20.13	1226	20.13	1226
212	0	0	0	0.785	20.83	1186	20.83	1186

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.235

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8
100.00	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2
125.00	0-5	0-5	0-6	0-7	0-9	0-11	1-2	1-5	1-8	1-10
150.00	0-7	0-8	0-9	0-11	1-1	1-4	1-8	2-0	2-4	2-8
175.00	0-9	0-10	1-0	1-2	1-6	1-10	2-3	2-9	3-3	3-8
200.00	1-0	1-1	1-4	1-7	1-11	2-5	3-0	3-7	4-2	4-10

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-4	0-4	0-6	0-7	0-8	0-8	0-8
100.00	0-3	0-4	0-5	0-6	0-8	0-10	1-0	1-1	1-2	1-3
125.00	0-5	0-6	0-8	0-10	1-0	1-3	1-6	1-9	1-10	2-0
150.00	0-7	0-9	0-11	1-2	1-6	1-10	2-3	2-6	2-8	2-10
175.00	0-10	1-0	1-3	1-7	2-0	2-6	3-0	3-5	3-8	3-10
200.00	1-1	1-4	1-8	2-1	2-8	3-3	3-11	4-6	4-9	5-0

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STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.236

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11
125.00	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4	1-5
150.00	0-10	0-11	1-1	1-3	1-4	1-6	1-7	1-9	1-10	2-0
175.00	1-2	1-4	1-6	1-8	1-10	2-0	2-2	2-5	2-7	2-9
200.00	1-6	1-8	1-11	2-2	2-5	2-8	2-11	3-1	3-4	3-7
225.00	1-10	2-2	2-5	2-9	3-1	3-4	3-8	3-11	4-3	4-6
250.00	2-4	2-8	3-0	3-5	3-9	4-2	4-6	4-10	5-2	5-6

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11	0-11
125.00	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-4	1-5	1-6
150.00	1-0	1-1	1-3	1-5	1-7	1-8	1-10	1-11	2-1	2-2
175.00	1-4	1-6	1-9	1-11	2-1	2-3	2-5	2-8	2-9	2-11
200.00	1-9	2-0	2-3	2-6	2-9	3-0	3-3	3-5	3-8	3-10
225.00	2-2	2-6	2-10	3-2	3-6	3-9	4-1	4-4	4-7	4-10
250.00	2-8	3-1	3-6	3-11	4-3	4-8	5-0	5-4	5-8	5-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.237

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10
175.00	1-7	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
200.00	2-1	2-3	2-4	2-6	2-7	2-9	2-10	3-0	3-1	3-2
225.00	2-8	2-10	3-0	3-2	3-4	3-6	3-7	3-9	3-11	4-0
250.00	3-3	3-6	3-8	3-11	4-1	4-3	4-6	4-8	4-10	5-0
275.00	4-0	4-3	4-6	4-9	5-0	5-2	5-5	5-7	5-10	6-0
300.00	4-9	5-1	5-4	5-7	5-11	6-2	6-5	6-8	6-11	7-2
325.00	5-7	5-11	6-3	6-7	6-11	7-3	7-7	7-10	8-2	8-5
350.00	6-5	6-10	7-3	7-8	8-0	8-5	8-9	9-1	9-5	9-9
375.00	7-5	7-11	8-4	8-9	9-3	9-8	10-1	10-6	10-10	11-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11
175.00	1-9	1-10	1-11	2-0	2-2	2-3	2-4	2-5	2-6	2-7
200.00	2-3	2-5	2-6	2-8	2-9	2-11	3-0	3-2	3-3	3-4
225.00	2-11	3-1	3-3	3-4	3-6	3-8	3-10	4-0	4-1	4-3
250.00	3-7	3-9	4-0	4-2	4-4	4-6	4-9	4-11	5-1	5-3
275.00	4-4	4-7	4-10	5-0	5-3	5-6	5-9	5-11	6-2	6-4
300.00	5-1	5-5	5-9	6-0	6-3	6-6	6-10	7-1	7-3	7-6
325.00	6-0	6-4	6-8	7-0	7-4	7-8	8-0	8-3	8-7	8-10
350.00	7-0	7-5	7-9	8-2	8-6	8-11	9-3	9-7	9-11	10-3
375.00	8-0	8-6	8-11	9-4	9-10	10-3	10-7	11-0	11-5	11-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.238

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-5	2-6	2-7	2-8	2-9	2-9	2-10	2-11	3-0	3-1
225.00	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10
250.00	3-9	3-11	4-0	4-2	4-3	4-4	4-5	4-7	4-8	4-9
275.00	4-7	4-9	4-10	5-0	5-2	5-3	5-5	5-6	5-8	5-9
300.00	5-5	5-7	5-9	5-11	6-1	6-3	6-5	6-7	6-9	6-10
325.00	6-5	6-7	6-9	7-0	7-2	7-4	7-6	7-9	7-11	8-1
350.00	7-5	7-8	7-11	8-1	8-4	8-6	8-9	8-11	9-2	9-4
375.00	8-6	8-9	9-1	9-4	9-7	9-10	10-0	10-3	10-6	10-9
400.00	9-8	10-0	10-3	10-7	10-10	11-2	11-5	11-8	11-11	12-3
425.00	10-11	11-3	11-7	11-11	12-3	12-7	12-11	13-2	13-6	13-9
450.00	12-3	12-8	13-0	13-5	13-9	14-1	14-5	14-10	15-2	15-6
475.00	13-8	14-1	14-6	14-11	15-4	15-9	16-1	16-6	16-10	17-3
500.00	15-2	15-7	16-1	16-6	17-0	17-5	17-10	18-3	18-8	19-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-2
225.00	3-2	3-3	3-4	3-6	3-7	3-8	3-9	3-10	3-11	4-0
250.00	3-11	4-1	4-2	4-3	4-5	4-6	4-7	4-8	4-10	4-11
275.00	4-9	4-11	5-0	5-2	5-4	5-5	5-7	5-8	5-10	5-11
300.00	5-8	5-10	6-0	6-2	6-4	6-6	6-8	6-9	6-11	7-1
325.00	6-8	6-10	7-0	7-3	7-5	7-7	7-9	7-11	8-2	8-4
350.00	7-9	7-11	8-2	8-5	8-7	8-10	9-0	9-3	9-5	9-7
375.00	8-10	9-1	9-5	9-8	9-11	10-1	10-4	10-7	10-10	11-1
400.00	10-1	10-4	10-8	11-0	11-3	11-6	11-9	12-1	12-4	12-7
425.00	11-4	11-9	12-1	12-4	12-8	13-0	13-4	13-7	13-11	14-2
450.00	12-9	13-2	13-6	13-10	14-3	14-7	14-11	15-3	15-7	15-11
475.00	14-2	14-8	15-1	15-6	15-10	16-3	16-8	17-0	17-5	17-9
500.00	15-9	16-3	16-8	17-2	17-7	18-0	18-5	18-10	19-3	19-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.239

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-0	4-1	4-2	4-3	4-4	4-5	4-5	4-6	4-7	4-8
275.00	4-10	4-11	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
300.00	5-10	5-11	6-0	6-1	6-3	6-4	6-5	6-6	6-7	6-9
325.00	6-10	6-11	7-1	7-2	7-4	7-5	7-6	7-8	7-9	7-11
350.00	7-11	8-0	8-2	8-4	8-6	8-7	8-9	8-10	9-0	9-2
375.00	9-1	9-3	9-5	9-7	9-9	9-10	10-0	10-2	10-4	10-6
400.00	10-4	10-6	10-8	10-10	11-1	11-3	11-5	11-7	11-9	11-11
425.00	11-8	11-10	12-1	12-3	12-6	12-8	12-11	13-1	13-3	13-6
450.00	13-1	13-3	13-6	13-9	14-0	14-3	14-5	14-8	14-11	15-1
475.00	14-6	14-10	15-1	15-4	15-7	15-10	16-1	16-4	16-7	16-10
500.00	16-1	16-5	16-8	17-0	17-3	17-7	17-10	18-1	18-5	18-8
525.00	17-9	18-1	18-5	18-9	19-1	19-4	19-8	20-0	20-3	20-7
550.00	19-6	19-10	20-3	20-7	20-11	21-3	21-7	21-11	22-3	22-7
575.00	21-4	21-8	22-1	22-6	22-10	23-3	23-7	24-0	24-4	24-8
600.00	23-2	23-8	24-1	24-6	24-11	25-4	25-9	26-1	26-6	26-11
625.00	25-2	25-8	26-1	26-7	27-0	27-6	27-11	28-4	28-9	29-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-7	4-8	4-9
275.00	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9
300.00	5-11	6-0	6-2	6-3	6-4	6-5	6-7	6-8	6-9	6-10
325.00	7-0	7-1	7-3	7-4	7-5	7-7	7-8	7-10	7-11	8-0
350.00	8-1	8-3	8-4	8-6	8-8	8-9	8-11	9-1	9-2	9-4
375.00	9-3	9-5	9-7	9-9	9-11	10-1	10-3	10-5	10-7	10-8
400.00	10-7	10-9	10-11	11-1	11-4	11-6	11-8	11-10	12-0	12-2
425.00	11-11	12-1	12-4	12-7	12-9	12-11	13-2	13-4	13-7	13-9
450.00	13-4	13-7	13-10	14-1	14-4	14-6	14-9	15-0	15-2	15-5
475.00	14-11	15-2	15-5	15-8	15-11	16-2	16-5	16-8	16-11	17-2
500.00	16-6	16-9	17-1	17-4	17-8	17-11	18-3	18-6	18-9	19-0
525.00	18-2	18-6	18-10	19-2	19-6	19-9	20-1	20-5	20-8	21-0
550.00	19-11	20-4	20-8	21-0	21-5	21-9	22-1	22-5	22-9	23-0
575.00	21-10	22-3	22-7	23-0	23-4	23-9	24-1	24-6	24-10	25-2
600.00	23-9	24-2	24-7	25-0	25-5	25-10	26-3	26-8	27-1	27-5
625.00	25-9	26-3	26-9	27-2	27-7	28-1	28-6	28-11	29-4	29-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.240

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.698	2.13	1000	2.13	1000*
0	0	0	0	0.785	1.81	544	1.8	547
30	0	0	0	0.785	2.14	458	2.14	460
40	0	0	0	0.785	2.24	440	2.23	441
50	0	0	0	0.785	2.32	423	2.32	425
60	0	0	0	0.785	2.41	408	2.4	410
70	0	0	0	0.785	2.49	394	2.48	396
80	0	0	0	0.785	2.57	382	2.56	384
90	0	0	0	0.785	2.63	374	2.63	374
100	0	0	0	0.785	2.68	367	2.68	367
110	0	0	0	0.785	2.73	361	2.73	361
120	0	0	0	0.785	2.77	355	2.77	355
130	0	0	0	0.785	2.82	349	2.82	349
167	0	0	0	0.785	2.99	330	2.99	330
212	0	0	0	0.785	3.18	310	3.18	310

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.698	8.55	1000	8.55	1000*
0	0	0	0	0.785	8.24	480	8.23	480
30	0	0	0	0.785	8.57	461	8.56	462
40	0	0	0	0.785	8.67	456	8.66	457
50	0	0	0	0.785	8.76	451	8.75	452
60	0	0	0	0.785	8.86	447	8.85	447
70	0	0	0	0.785	8.95	442	8.94	443
80	0	0	0	0.785	9.04	438	9.03	438
90	0	0	0	0.785	9.13	434	9.12	434
100	0	0	0	0.785	9.19	431	9.19	431
110	0	0	0	0.785	9.24	428	9.24	428
120	0	0	0	0.785	9.3	426	9.3	426
130	0	0	0	0.785	9.36	423	9.36	423
167	0	0	0	0.785	9.57	414	9.57	414
212	0	0	0	0.785	9.82	404	9.82	404

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.698	19.43	1000	19.43	1000*
0	0	0	0	0.785	19.11	470	19.1	470
30	0	0	0	0.785	19.45	462	19.44	462
40	0	0	0	0.785	19.54	460	19.53	460
50	0	0	0	0.785	19.64	457	19.63	458
60	0	0	0	0.785	19.74	455	19.73	455
70	0	0	0	0.785	19.83	453	19.82	453
80	0	0	0	0.785	19.93	451	19.91	451
90	0	0	0	0.785	20.02	449	20.01	449
100	0	0	0	0.785	20.08	448	20.08	448
110	0	0	0	0.785	20.14	446	20.14	446
120	0	0	0	0.785	20.2	445	20.2	445
130	0	0	0	0.785	20.26	444	20.26	444
167	0	0	0	0.785	20.48	439	20.48	439
212	0	0	0	0.785	20.75	434	20.75	434

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.698	35.01	1000	35.01	1000*
0	0	0	0	0.785	34.7	466	34.69	466
30	0	0	0	0.785	35.03	462	35.02	462
40	0	0	0	0.785	35.13	461	35.12	461
50	0	0	0	0.785	35.23	460	35.22	460
60	0	0	0	0.785	35.32	458	35.31	459
70	0	0	0	0.785	35.42	457	35.41	457
80	0	0	0	0.785	35.51	456	35.5	456
90	0	0	0	0.785	35.61	455	35.6	455
100	0	0	0	0.785	35.67	454	35.67	454
110	0	0	0	0.785	35.73	453	35.73	453
120	0	0	0	0.785	35.8	453	35.8	453
130	0	0	0	0.785	35.86	452	35.86	452
167	0	0	0	0.785	36.09	449	36.09	449
212	0	0	0	0.785	36.36	446	36.36	446

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.242

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.698	55.73	1000	55.73	1000*
0	0	0	0	0.785	55.41	465	55.4	465
30	0	0	0	0.785	55.74	462	55.74	462
40	0	0	0	0.785	55.84	461	55.83	461
50	0	0	0	0.785	55.94	461	55.93	461
60	0	0	0	0.785	56.03	460	56.02	460
70	0	0	0	0.785	56.13	459	56.12	459
80	0	0	0	0.785	56.23	458	56.21	459
90	0	0	0	0.785	56.32	458	56.31	458
100	0	0	0	0.785	56.39	457	56.39	457
110	0	0	0	0.785	56.45	457	56.45	457
120	0	0	0	0.785	56.51	456	56.51	456
130	0	0	0	0.785	56.57	456	56.57	456
167	0	0	0	0.785	56.8	454	56.8	454
212	0	0	0	0.785	57.08	452	57.08	452

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-2	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-6
100.00	2-0	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9
125.00	3-2	3-4	3-6	3-7	3-9	3-11	4-0	4-1	4-2	4-3
150.00	4-7	4-10	5-0	5-3	5-5	5-7	5-9	5-11	6-0	6-2
175.00	6-3	6-7	6-10	7-1	7-4	7-7	7-10	8-1	8-3	8-4
200.00	8-2	8-7	8-11	9-3	9-8	10-0	10-3	10-7	10-9	10-11

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-2	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-6
100.00	2-0	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9
125.00	3-2	3-4	3-6	3-8	3-9	3-11	4-0	4-1	4-2	4-3
150.00	4-7	4-10	5-0	5-3	5-5	5-7	5-10	5-11	6-0	6-2
175.00	6-3	6-7	6-10	7-2	7-5	7-8	7-11	8-1	8-3	8-4
200.00	8-2	8-7	9-0	9-4	9-8	10-0	10-4	10-7	10-9	10-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-1	2-2	2-2	2-2	2-2	2-3	2-3	2-3	2-4	2-4
125.00	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-7	3-7	3-7
150.00	4-9	4-10	4-10	4-11	5-0	5-0	5-1	5-1	5-2	5-2
175.00	6-6	6-7	6-8	6-8	6-9	6-10	6-11	7-0	7-0	7-1
200.00	8-5	8-7	8-8	8-9	8-10	8-11	9-0	9-1	9-2	9-3
225.00	10-9	10-10	11-0	11-1	11-2	11-4	11-5	11-7	11-8	11-8
250.00	13-3	13-5	13-7	13-8	13-10	14-0	14-2	14-3	14-5	14-6

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-1	2-2	2-2	2-2	2-3	2-3	2-3	2-3	2-4	2-4
125.00	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-7	3-7	3-7
150.00	4-9	4-10	4-10	4-11	5-0	5-0	5-1	5-2	5-2	5-2
175.00	6-6	6-7	6-8	6-8	6-9	6-10	6-11	7-0	7-0	7-1
200.00	8-6	8-7	8-8	8-9	8-10	8-11	9-1	9-2	9-2	9-3
225.00	10-9	10-10	11-0	11-1	11-3	11-4	11-5	11-7	11-8	11-8
250.00	13-3	13-5	13-7	13-9	13-10	14-0	14-2	14-3	14-5	14-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.245

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-10	4-10	4-10	4-11	4-11	4-11	4-11	5-0	5-0	5-0
175.00	6-7	6-7	6-7	6-8	6-8	6-9	6-9	6-9	6-10	6-10
200.00	8-7	8-7	8-8	8-8	8-9	8-9	8-10	8-10	8-11	8-11
225.00	10-10	10-11	11-0	11-0	11-1	11-1	11-2	11-3	11-3	11-4
250.00	13-5	13-6	13-7	13-7	13-8	13-9	13-10	13-10	13-11	14-0
275.00	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-10	16-10	16-11
300.00	19-4	19-5	19-6	19-8	19-9	19-10	19-11	20-0	20-1	20-2
325.00	22-8	22-10	22-11	23-1	23-2	23-3	23-5	23-6	23-7	23-8
350.00	26-4	26-6	26-8	26-9	26-11	27-0	27-2	27-3	27-5	27-6
375.00	30-4	30-6	30-7	30-9	30-11	31-1	31-3	31-4	31-6	31-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-10	4-10	4-10	4-11	4-11	4-11	5-0	5-0	5-0	5-0
175.00	6-7	6-7	6-8	6-8	6-8	6-9	6-9	6-9	6-10	6-10
200.00	8-7	8-7	8-8	8-8	8-9	8-9	8-10	8-10	8-11	8-11
225.00	10-10	10-11	11-0	11-0	11-1	11-2	11-2	11-3	11-3	11-4
250.00	13-5	13-6	13-7	13-7	13-8	13-9	13-10	13-11	13-11	14-0
275.00	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-10	16-10	16-11
300.00	19-4	19-5	19-7	19-8	19-9	19-10	19-11	20-0	20-1	20-2
325.00	22-9	22-10	23-0	23-1	23-2	23-4	23-5	23-6	23-7	23-8
350.00	26-5	26-6	26-8	26-9	26-11	27-1	27-2	27-4	27-5	27-6
375.00	30-4	30-6	30-8	30-9	30-11	31-1	31-3	31-5	31-6	31-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.246

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-8	8-8	8-9	8-9	8-9	8-9	8-10	8-10	8-10	8-10
225.00	11-0	11-0	11-0	11-1	11-1	11-1	11-2	11-2	11-2	11-3
250.00	13-7	13-7	13-8	13-8	13-8	13-9	13-9	13-10	13-10	13-10
275.00	16-5	16-6	16-6	16-7	16-7	16-8	16-8	16-9	16-9	16-10
300.00	19-7	19-7	19-8	19-9	19-9	19-10	19-11	19-11	20-0	20-0
325.00	23-0	23-1	23-1	23-2	23-3	23-4	23-4	23-5	23-6	23-6
350.00	26-8	26-9	26-10	26-11	27-0	27-1	27-1	27-2	27-3	27-4
375.00	30-8	30-9	30-10	30-11	31-0	31-1	31-2	31-3	31-4	31-4
400.00	34-11	35-0	35-1	35-3	35-4	35-5	35-6	35-7	35-8	35-9
425.00	39-6	39-7	39-8	39-10	39-11	40-0	40-2	40-3	40-4	40-5
450.00	44-4	44-5	44-7	44-8	44-10	44-11	45-1	45-2	45-3	45-4
475.00	49-5	49-7	49-9	49-10	50-0	50-2	50-3	50-5	50-6	50-7
500.00	54-10	55-0	55-2	55-4	55-6	55-8	55-10	55-11	56-1	56-2

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-8	8-8	8-9	8-9	8-9	8-9	8-10	8-10	8-10	8-10
225.00	11-0	11-0	11-0	11-1	11-1	11-2	11-2	11-2	11-2	11-3
250.00	13-7	13-7	13-8	13-8	13-9	13-9	13-9	13-10	13-10	13-10
275.00	16-5	16-6	16-6	16-7	16-7	16-8	16-8	16-9	16-9	16-10
300.00	19-7	19-7	19-8	19-9	19-9	19-10	19-11	19-11	20-0	20-0
325.00	23-0	23-1	23-1	23-2	23-3	23-4	23-4	23-5	23-6	23-6
350.00	26-8	26-9	26-10	26-11	27-0	27-1	27-1	27-2	27-3	27-4
375.00	30-8	30-9	30-10	30-11	31-0	31-1	31-2	31-3	31-4	31-4
400.00	34-11	35-0	35-2	35-3	35-4	35-5	35-6	35-7	35-8	35-9
425.00	39-6	39-7	39-8	39-10	39-11	40-0	40-2	40-3	40-4	40-5
450.00	44-4	44-5	44-7	44-8	44-10	44-11	45-1	45-2	45-3	45-4
475.00	49-5	49-7	49-9	49-11	50-0	50-2	50-3	50-5	50-6	50-7
500.00	54-11	55-1	55-2	55-4	55-6	55-8	55-10	56-0	56-1	56-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.247

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	13-9	13-9	13-9	13-10	13-10	13-10	13-11	13-11	13-11	13-11
275.00	16-8	16-8	16-8	16-9	16-9	16-9	16-10	16-10	16-10	16-11
300.00	19-10	19-10	19-11	19-11	20-0	20-0	20-0	20-1	20-1	20-1
325.00	23-3	23-4	23-4	23-5	23-5	23-6	23-6	23-7	23-7	23-7
350.00	27-0	27-1	27-2	27-2	27-3	27-3	27-4	27-4	27-5	27-5
375.00	31-1	31-2	31-2	31-3	31-3	31-4	31-5	31-5	31-6	31-6
400.00	35-5	35-6	35-6	35-7	35-8	35-8	35-9	35-10	35-11	35-11
425.00	40-0	40-1	40-2	40-3	40-4	40-4	40-5	40-6	40-7	40-7
450.00	44-11	45-0	45-1	45-2	45-3	45-4	45-5	45-6	45-6	45-7
475.00	50-2	50-3	50-4	50-5	50-6	50-7	50-8	50-9	50-10	50-10
500.00	55-8	55-9	55-10	55-11	56-0	56-1	56-3	56-4	56-5	56-5
525.00	61-5	61-7	61-8	61-9	61-10	62-0	62-1	62-2	62-3	62-4
550.00	67-6	67-8	67-9	67-11	68-0	68-2	68-3	68-4	68-6	68-6
575.00	73-11	74-1	74-3	74-4	74-6	74-7	74-9	74-10	75-0	75-1
600.00	80-8	80-10	81-0	81-1	81-3	81-5	81-6	81-8	81-9	81-10
625.00	87-8	87-10	88-0	88-2	88-4	88-6	88-8	88-10	88-11	89-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	13-9	13-9	13-10	13-10	13-10	13-10	13-11	13-11	13-11	13-11
275.00	16-8	16-8	16-8	16-9	16-9	16-9	16-10	16-10	16-10	16-11
300.00	19-10	19-10	19-11	19-11	20-0	20-0	20-0	20-1	20-1	20-1
325.00	23-3	23-4	23-4	23-5	23-5	23-6	23-6	23-7	23-7	23-7
350.00	27-0	27-1	27-2	27-2	27-3	27-3	27-4	27-4	27-5	27-5
375.00	31-1	31-2	31-2	31-3	31-4	31-4	31-5	31-5	31-6	31-6
400.00	35-5	35-6	35-6	35-7	35-8	35-9	35-9	35-10	35-11	35-11
425.00	40-0	40-1	40-2	40-3	40-4	40-4	40-5	40-6	40-7	40-7
450.00	44-11	45-0	45-1	45-2	45-3	45-4	45-5	45-6	45-6	45-7
475.00	50-2	50-3	50-4	50-5	50-6	50-7	50-8	50-9	50-10	50-10
500.00	55-8	55-9	55-10	55-11	56-0	56-2	56-3	56-4	56-5	56-5
525.00	61-5	61-7	61-8	61-9	61-11	62-0	62-1	62-2	62-3	62-4
550.00	67-7	67-8	67-10	67-11	68-0	68-2	68-3	68-5	68-6	68-6
575.00	74-0	74-1	74-3	74-4	74-6	74-7	74-9	74-11	75-0	75-1
600.00	80-8	80-10	81-0	81-1	81-3	81-5	81-7	81-8	81-9	81-10
625.00	87-9	87-11	88-1	88-2	88-4	88-6	88-8	88-10	88-11	89-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.248

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.698	1.42	1500	1.42	1500*
0	0	0	0	0.785	0.94	1041	0.94	1049
30	0	0	0	0.785	1.39	708	1.37	717
40	0	0	0	0.785	1.52	648	1.5	656
50	0	0	0	0.785	1.64	600	1.62	607
60	0	0	0	0.785	1.75	560	1.73	567
70	0	0	0	0.785	1.86	528	1.84	533
80	0	0	0	0.785	1.97	500	1.95	505
90	0	0	0	0.785	2.06	476	2.04	481
100	0	0	0	0.785	2.12	463	2.12	463
110	0	0	0	0.785	2.18	451	2.18	451
120	0	0	0	0.785	2.24	440	2.24	440
130	0	0	0	0.785	2.29	429	2.29	429
167	0	0	0	0.785	2.49	396	2.49	396
212	0	0	0	0.785	2.71	363	2.71	363

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.698	5.69	1498	5.68	1500*
0	0	0	0	0.785	5.19	758	5.15	764
30	0	0	0	0.785	5.66	696	5.63	700
40	0	0	0	0.785	5.8	679	5.77	683
50	0	0	0	0.785	5.94	663	5.91	667
60	0	0	0	0.785	6.07	649	6.04	652
70	0	0	0	0.785	6.21	635	6.17	638
80	0	0	0	0.785	6.34	622	6.3	625
90	0	0	0	0.785	6.46	610	6.43	613
100	0	0	0	0.785	6.59	599	6.55	601
110	0	0	0	0.785	6.66	592	6.66	592
120	0	0	0	0.785	6.74	585	6.74	585
130	0	0	0	0.785	6.82	578	6.82	578
167	0	0	0	0.785	7.09	556	7.09	556
212	0	0	0	0.785	7.42	532	7.42	532

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.249

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.698	12.85	1498	12.83	1500*
0	0	0	0	0.785	12.35	720	12.3	723
30	0	0	0	0.785	12.81	694	12.78	696
40	0	0	0	0.785	12.96	687	12.92	688
50	0	0	0	0.785	13.1	679	13.06	681
60	0	0	0	0.785	13.24	672	13.2	674
70	0	0	0	0.785	13.38	665	13.34	667
80	0	0	0	0.785	13.52	659	13.48	660
90	0	0	0	0.785	13.66	652	13.62	654
100	0	0	0	0.785	13.79	646	13.75	648
110	0	0	0	0.785	13.89	641	13.88	642
120	0	0	0	0.785	13.98	637	13.98	637
130	0	0	0	0.785	14.06	634	14.06	634
167	0	0	0	0.785	14.37	620	14.37	620
212	0	0	0	0.785	14.74	605	14.74	605

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.698	22.96	1499	22.95	1500*
0	0	0	0	0.785	22.47	708	22.42	709
30	0	0	0	0.785	22.93	694	22.89	695
40	0	0	0	0.785	23.07	689	23.04	691
50	0	0	0	0.785	23.22	685	23.18	686
60	0	0	0	0.785	23.36	681	23.32	682
70	0	0	0	0.785	23.5	677	23.46	678
80	0	0	0	0.785	23.65	673	23.6	674
90	0	0	0	0.785	23.79	669	23.74	671
100	0	0	0	0.785	23.93	666	23.88	667
110	0	0	0	0.785	24.04	663	24.02	663
120	0	0	0	0.785	24.13	660	24.13	660
130	0	0	0	0.785	24.22	658	24.22	658
167	0	0	0	0.785	24.54	649	24.54	649
212	0	0	0	0.785	24.93	639	24.93	639

* Design Condition

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SHEET 250 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.250

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.698	36.14	1499	36.13	1500*
0	0	0	0	0.785	35.65	702	35.6	703
30	0	0	0	0.785	36.11	694	36.07	694
40	0	0	0	0.785	36.26	691	36.22	692
50	0	0	0	0.785	36.4	688	36.36	689
60	0	0	0	0.785	36.55	686	36.5	686
70	0	0	0	0.785	36.69	683	36.65	684
80	0	0	0	0.785	36.83	681	36.79	681
90	0	0	0	0.785	36.97	678	36.93	679
100	0	0	0	0.785	37.12	676	37.07	676
110	0	0	0	0.785	37.23	673	37.21	674
120	0	0	0	0.785	37.33	672	37.33	672
130	0	0	0	0.785	37.42	670	37.42	670
167	0	0	0	0.785	37.75	665	37.75	665
212	0	0	0	0.785	38.16	658	38.16	658

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.251

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3
100.00	1-3	1-4	1-6	1-7	1-9	1-10	1-11	2-1	2-1	2-2
125.00	1-11	2-2	2-4	2-6	2-9	2-11	3-0	3-2	3-4	3-5
150.00	2-9	3-1	3-4	3-8	3-11	4-2	4-5	4-7	4-9	4-11
175.00	3-9	4-2	4-7	5-0	5-4	5-8	6-0	6-3	6-6	6-8
200.00	4-11	5-6	6-0	6-6	6-11	7-5	7-10	8-2	8-6	8-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-2	1-3
100.00	1-3	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-1	2-2
125.00	1-11	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-4	3-5
150.00	2-10	3-1	3-5	3-8	3-11	4-2	4-5	4-8	4-9	4-11
175.00	3-10	4-3	4-8	5-0	5-4	5-9	6-0	6-4	6-6	6-8
200.00	5-0	5-7	6-1	6-7	7-0	7-6	7-11	8-3	8-6	8-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.252

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-7	1-8	1-8
125.00	2-2	2-2	2-3	2-4	2-4	2-5	2-6	2-6	2-7	2-7
150.00	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-7	3-8	3-9
175.00	4-2	4-4	4-5	4-6	4-7	4-9	4-10	4-11	5-0	5-1
200.00	5-6	5-8	5-9	5-11	6-0	6-2	6-4	6-5	6-7	6-8
225.00	6-11	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-5
250.00	8-7	8-10	9-0	9-3	9-5	9-8	9-10	10-1	10-3	10-5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-5	1-5	1-6	1-6	1-7	1-7	1-7	1-8	1-8
125.00	2-2	2-3	2-3	2-4	2-4	2-5	2-6	2-6	2-7	2-7
150.00	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-8	3-9
175.00	4-3	4-4	4-5	4-7	4-8	4-9	4-10	4-11	5-0	5-1
200.00	5-6	5-8	5-10	5-11	6-1	6-2	6-4	6-6	6-7	6-8
225.00	7-0	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-5
250.00	8-7	8-10	9-1	9-3	9-6	9-8	9-11	10-1	10-4	10-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.253

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-2	3-2	3-3	3-3	3-4	3-4	3-4	3-5	3-5	3-6
175.00	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-9
200.00	5-7	5-8	5-9	5-10	5-10	5-11	6-0	6-1	6-1	6-2
225.00	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10
250.00	8-9	8-10	9-0	9-1	9-2	9-3	9-4	9-5	9-6	9-8
275.00	10-7	10-9	10-10	11-0	11-1	11-2	11-4	11-5	11-7	11-8
300.00	12-8	12-9	12-11	13-1	13-2	13-4	13-6	13-7	13-9	13-11
325.00	14-10	15-0	15-2	15-4	15-6	15-8	15-10	16-0	16-2	16-4
350.00	17-3	17-5	17-7	17-10	18-0	18-2	18-4	18-7	18-9	18-11
375.00	19-9	20-0	20-3	20-5	20-8	20-11	21-1	21-4	21-6	21-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-2	3-2	3-3	3-3	3-4	3-4	3-4	3-5	3-5	3-6
175.00	4-4	4-4	4-5	4-5	4-6	4-7	4-7	4-8	4-8	4-9
200.00	5-7	5-8	5-9	5-10	5-11	5-11	6-0	6-1	6-1	6-2
225.00	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10
250.00	8-10	8-11	9-0	9-1	9-2	9-3	9-5	9-6	9-7	9-8
275.00	10-8	10-9	10-11	11-0	11-1	11-3	11-4	11-6	11-7	11-8
300.00	12-8	12-10	13-0	13-1	13-3	13-5	13-6	13-8	13-10	13-11
325.00	14-10	15-1	15-3	15-5	15-7	15-9	15-10	16-0	16-2	16-4
350.00	17-3	17-5	17-8	17-10	18-0	18-3	18-5	18-7	18-9	18-11
375.00	19-10	20-1	20-3	20-6	20-9	20-11	21-2	21-4	21-7	21-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.254

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-8	5-8	5-9	5-9	5-10	5-10	5-11	5-11	5-11	6-0
225.00	7-2	7-3	7-3	7-4	7-4	7-5	7-5	7-6	7-6	7-7
250.00	8-10	8-11	9-0	9-0	9-1	9-2	9-2	9-3	9-4	9-4
275.00	10-9	10-10	10-10	10-11	11-0	11-1	11-2	11-2	11-3	11-4
300.00	12-9	12-10	12-11	13-0	13-1	13-2	13-3	13-4	13-5	13-6
325.00	15-0	15-1	15-2	15-3	15-4	15-6	15-7	15-8	15-9	15-10
350.00	17-5	17-6	17-7	17-9	17-10	17-11	18-1	18-2	18-3	18-4
375.00	20-0	20-1	20-3	20-4	20-6	20-7	20-9	20-10	21-0	21-1
400.00	22-9	22-11	23-0	23-2	23-4	23-6	23-7	23-9	23-11	24-0
425.00	25-8	25-10	26-0	26-2	26-4	26-6	26-8	26-10	27-0	27-2
450.00	28-10	29-0	29-2	29-4	29-7	29-9	29-11	30-1	30-3	30-5
475.00	32-2	32-4	32-7	32-9	32-11	33-2	33-4	33-7	33-9	33-11
500.00	35-8	35-10	36-1	36-4	36-6	36-9	37-0	37-2	37-5	37-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-8	5-9	5-9	5-9	5-10	5-10	5-11	5-11	6-0	6-0
225.00	7-2	7-3	7-3	7-4	7-4	7-5	7-5	7-6	7-7	7-7
250.00	8-11	8-11	9-0	9-1	9-1	9-2	9-3	9-3	9-4	9-4
275.00	10-9	10-10	10-11	10-11	11-0	11-1	11-2	11-3	11-3	11-4
300.00	12-10	12-10	12-11	13-0	13-1	13-2	13-3	13-4	13-5	13-6
325.00	15-0	15-1	15-3	15-4	15-5	15-6	15-7	15-8	15-9	15-10
350.00	17-5	17-6	17-8	17-9	17-10	18-0	18-1	18-2	18-4	18-5
375.00	20-0	20-2	20-3	20-5	20-6	20-8	20-9	20-11	21-0	21-1
400.00	22-9	22-11	23-1	23-3	23-4	23-6	23-8	23-9	23-11	24-0
425.00	25-9	25-11	26-1	26-3	26-5	26-7	26-9	26-10	27-0	27-2
450.00	28-10	29-1	29-3	29-5	29-7	29-9	30-0	30-2	30-4	30-6
475.00	32-2	32-5	32-7	32-10	33-0	33-2	33-5	33-7	33-10	34-0
500.00	35-8	35-11	36-2	36-4	36-7	36-10	37-1	37-3	37-6	37-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.255

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-11	9-0	9-0	9-1	9-1	9-1	9-2	9-2	9-3	9-3
275.00	10-10	10-10	10-11	10-11	11-0	11-0	11-1	11-1	11-2	11-2
300.00	12-11	12-11	13-0	13-0	13-1	13-2	13-2	13-3	13-3	13-4
325.00	15-1	15-2	15-3	15-4	15-4	15-5	15-6	15-6	15-7	15-8
350.00	17-7	17-7	17-8	17-9	17-10	17-11	18-0	18-0	18-1	18-2
375.00	20-2	20-3	20-4	20-5	20-6	20-7	20-8	20-8	20-9	20-10
400.00	22-11	23-0	23-1	23-3	23-4	23-5	23-6	23-7	23-8	23-9
425.00	25-11	26-0	26-1	26-3	26-4	26-5	26-6	26-8	26-9	26-10
450.00	29-1	29-2	29-4	29-5	29-6	29-8	29-9	29-10	30-0	30-1
475.00	32-5	32-6	32-8	32-10	32-11	33-1	33-2	33-4	33-5	33-7
500.00	35-11	36-1	36-3	36-4	36-6	36-8	36-9	36-11	37-1	37-3
525.00	39-8	39-10	39-11	40-1	40-3	40-5	40-7	40-9	40-11	41-1
550.00	43-6	43-9	43-11	44-1	44-3	44-5	44-7	44-9	44-11	45-1
575.00	47-7	47-10	48-0	48-2	48-5	48-7	48-9	48-11	49-2	49-4
600.00	51-11	52-1	52-4	52-6	52-9	52-11	53-2	53-4	53-7	53-9
625.00	56-4	56-7	56-10	57-0	57-3	57-6	57-9	57-11	58-2	58-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-11	9-0	9-0	9-1	9-1	9-1	9-2	9-2	9-3	9-3
275.00	10-10	10-10	10-11	10-11	11-0	11-1	11-1	11-2	11-2	11-2
300.00	12-11	12-11	13-0	13-1	13-1	13-2	13-2	13-3	13-4	13-4
325.00	15-2	15-2	15-3	15-4	15-5	15-5	15-6	15-7	15-7	15-8
350.00	17-7	17-8	17-8	17-9	17-10	17-11	18-0	18-1	18-1	18-2
375.00	20-2	20-3	20-4	20-5	20-6	20-7	20-8	20-9	20-10	20-11
400.00	23-0	23-1	23-2	23-3	23-4	23-5	23-6	23-7	23-8	23-9
425.00	25-11	26-0	26-2	26-3	26-4	26-5	26-7	26-8	26-9	26-10
450.00	29-1	29-3	29-4	29-5	29-7	29-8	29-10	29-11	30-0	30-1
475.00	32-5	32-7	32-8	32-10	33-0	33-1	33-3	33-4	33-6	33-7
500.00	36-0	36-1	36-3	36-5	36-7	36-8	36-10	37-0	37-1	37-3
525.00	39-8	39-10	40-0	40-2	40-4	40-6	40-8	40-10	40-11	41-1
550.00	43-7	43-9	43-11	44-1	44-3	44-6	44-8	44-10	45-0	45-1
575.00	47-8	47-10	48-1	48-3	48-5	48-8	48-10	49-0	49-2	49-4
600.00	51-11	52-2	52-4	52-7	52-9	53-0	53-2	53-5	53-7	53-9
625.00	56-5	56-8	56-10	57-1	57-4	57-7	57-9	58-0	58-3	58-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.256

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.698	1.07	1988	1.06	2000*
0	0	0	0	0.785	0.51	1910	0.51	1923
30	0	0	0	0.785	0.97	1011	0.93	1051
40	0	0	0	0.785	1.13	872	1.09	903
50	0	0	0	0.785	1.27	771	1.23	797
60	0	0	0	0.785	1.41	697	1.37	717
70	0	0	0	0.785	1.54	639	1.5	656
80	0	0	0	0.785	1.66	592	1.62	607
90	0	0	0	0.785	1.77	554	1.73	567
100	0	0	0	0.785	1.85	532	1.84	533
110	0	0	0	0.785	1.91	514	1.91	514
120	0	0	0	0.785	1.97	498	1.97	498
130	0	0	0	0.785	2.03	484	2.03	484
167	0	0	0	0.785	2.24	438	2.24	438
212	0	0	0	0.785	2.48	396	2.48	396

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.698	4.3	1979	4.25	2000*
0	0	0	0	0.785	3.6	1092	3.51	1118
30	0	0	0	0.785	4.19	939	4.1	959
40	0	0	0	0.785	4.37	900	4.28	918
50	0	0	0	0.785	4.55	865	4.46	882
60	0	0	0	0.785	4.72	834	4.63	849
70	0	0	0	0.785	4.88	806	4.8	820
80	0	0	0	0.785	5.04	780	4.96	794
90	0	0	0	0.785	5.2	757	5.11	769
100	0	0	0	0.785	5.35	736	5.27	747
110	0	0	0	0.785	5.46	721	5.42	727
120	0	0	0	0.785	5.55	709	5.55	709
130	0	0	0	0.785	5.64	698	5.64	698
167	0	0	0	0.785	5.96	661	5.96	661
212	0	0	0	0.785	6.33	622	6.33	622

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.257

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.698	9.66	1987	9.59	2000*
0	0	0	0	0.785	8.95	990	8.85	1002
30	0	0	0	0.785	9.54	930	9.44	940
40	0	0	0	0.785	9.73	912	9.62	921
50	0	0	0	0.785	9.91	895	9.81	904
60	0	0	0	0.785	10.09	879	9.99	888
70	0	0	0	0.785	10.27	864	10.17	872
80	0	0	0	0.785	10.45	849	10.35	858
90	0	0	0	0.785	10.62	835	10.52	844
100	0	0	0	0.785	10.8	822	10.69	830
110	0	0	0	0.785	10.96	810	10.86	818
120	0	0	0	0.785	11.06	803	11.03	805
130	0	0	0	0.785	11.17	795	11.17	795
167	0	0	0	0.785	11.55	769	11.55	769
212	0	0	0	0.785	11.99	741	11.99	741

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.698	17.18	1992	17.11	2000*
0	0	0	0	0.785	16.47	960	16.36	966
30	0	0	0	0.785	17.06	927	16.95	933
40	0	0	0	0.785	17.25	917	17.14	923
50	0	0	0	0.785	17.44	907	17.33	913
60	0	0	0	0.785	17.63	898	17.51	903
70	0	0	0	0.785	17.81	888	17.7	894
80	0	0	0	0.785	18	879	17.88	885
90	0	0	0	0.785	18.18	871	18.06	876
100	0	0	0	0.785	18.36	862	18.24	868
110	0	0	0	0.785	18.54	854	18.42	860
120	0	0	0	0.785	18.66	849	18.6	851
130	0	0	0	0.785	18.78	844	18.77	844
167	0	0	0	0.785	19.19	826	19.19	826
212	0	0	0	0.785	19.68	806	19.68	806

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.698	26.92	1995	26.85	2000*
0	0	0	0	0.785	26.21	946	26.09	950
30	0	0	0	0.785	26.8	926	26.69	930
40	0	0	0	0.785	26.99	919	26.88	923
50	0	0	0	0.785	27.18	913	27.07	917
60	0	0	0	0.785	27.37	907	27.25	911
70	0	0	0	0.785	27.56	901	27.44	905
80	0	0	0	0.785	27.75	895	27.63	899
90	0	0	0	0.785	27.93	889	27.81	893
100	0	0	0	0.785	28.12	883	28	887
110	0	0	0	0.785	28.3	878	28.18	882
120	0	0	0	0.785	28.44	874	28.36	876
130	0	0	0	0.785	28.56	870	28.54	871
167	0	0	0	0.785	28.99	857	28.99	857
212	0	0	0	0.785	29.51	843	29.51	843

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.259

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1
100.00	0-9	0-11	1-1	1-3	1-4	1-6	1-7	1-9	1-10	1-11
125.00	1-3	1-6	1-8	1-11	2-2	2-4	2-6	2-9	2-11	3-0
150.00	1-9	2-1	2-5	2-9	3-1	3-4	3-8	3-11	4-2	4-4
175.00	2-5	2-10	3-4	3-9	4-2	4-7	5-0	5-4	5-8	5-10
200.00	3-1	3-9	4-4	4-11	5-6	6-0	6-6	6-11	7-5	7-8

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1
100.00	0-10	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-10	1-11
125.00	1-3	1-6	1-9	2-0	2-2	2-5	2-7	2-9	2-11	3-0
150.00	1-10	2-2	2-6	2-10	3-2	3-6	3-9	4-0	4-2	4-4
175.00	2-6	3-0	3-5	3-11	4-4	4-9	5-1	5-5	5-8	5-10
200.00	3-3	3-11	4-6	5-1	5-8	6-2	6-8	7-1	7-5	7-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.260

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4
125.00	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-1	2-1
150.00	2-2	2-4	2-5	2-6	2-7	2-8	2-9	2-11	3-0	3-1
175.00	3-0	3-2	3-3	3-5	3-7	3-8	3-10	3-11	4-0	4-2
200.00	3-11	4-1	4-3	4-6	4-8	4-10	4-11	5-1	5-3	5-5
225.00	4-11	5-2	5-5	5-8	5-10	6-1	6-3	6-6	6-8	6-10
250.00	6-1	6-5	6-8	7-0	7-3	7-6	7-9	8-0	8-3	8-6

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4
125.00	1-7	1-8	1-8	1-9	1-10	1-11	2-0	2-0	2-1	2-2
150.00	2-3	2-4	2-5	2-7	2-8	2-9	2-10	2-11	3-0	3-1
175.00	3-1	3-2	3-4	3-6	3-7	3-9	3-10	4-0	4-1	4-2
200.00	4-0	4-2	4-4	4-7	4-9	4-11	5-1	5-2	5-4	5-6
225.00	5-1	5-4	5-6	5-9	6-0	6-2	6-5	6-7	6-9	6-11
250.00	6-3	6-7	6-10	7-1	7-4	7-8	7-11	8-2	8-4	8-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.261

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-4	2-4	2-5	2-5	2-6	2-6	2-7	2-8	2-8	2-9
175.00	3-2	3-2	3-3	3-4	3-5	3-5	3-6	3-7	3-8	3-8
200.00	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10
225.00	5-2	5-4	5-5	5-6	5-7	5-9	5-10	5-11	6-0	6-1
250.00	6-5	6-7	6-8	6-10	6-11	7-1	7-2	7-4	7-5	7-6
275.00	7-9	7-11	8-1	8-3	8-5	8-7	8-8	8-10	9-0	9-1
300.00	9-3	9-5	9-7	9-10	10-0	10-2	10-4	10-6	10-8	10-10
325.00	10-10	11-1	11-4	11-6	11-9	11-11	12-2	12-4	12-7	12-9
350.00	12-7	12-10	13-1	13-4	13-7	13-10	14-1	14-4	14-7	14-9
375.00	14-5	14-9	15-1	15-4	15-7	15-11	16-2	16-5	16-9	17-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-9
175.00	3-2	3-3	3-4	3-4	3-5	3-6	3-7	3-7	3-8	3-9
200.00	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-10
225.00	5-3	5-4	5-6	5-7	5-8	5-9	5-10	6-0	6-1	6-2
250.00	6-6	6-7	6-9	6-11	7-0	7-2	7-3	7-4	7-6	7-7
275.00	7-10	8-0	8-2	8-4	8-6	8-8	8-9	8-11	9-1	9-2
300.00	9-4	9-6	9-9	9-11	10-1	10-3	10-5	10-7	10-10	10-11
325.00	11-0	11-2	11-5	11-8	11-10	12-1	12-3	12-6	12-8	12-10
350.00	12-9	13-0	13-3	13-6	13-9	14-0	14-3	14-6	14-8	14-11
375.00	14-7	14-11	15-3	15-6	15-9	16-1	16-4	16-7	16-11	17-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.262

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-2	4-3	4-3	4-4	4-4	4-5	4-6	4-6	4-7	4-7
225.00	5-4	5-4	5-5	5-6	5-6	5-7	5-8	5-8	5-9	5-10
250.00	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-1	7-2
275.00	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8
300.00	9-5	9-6	9-8	9-9	9-10	9-11	10-1	10-2	10-3	10-4
325.00	11-1	11-2	11-4	11-5	11-7	11-8	11-10	11-11	12-0	12-2
350.00	12-10	13-0	13-1	13-3	13-5	13-7	13-8	13-10	14-0	14-1
375.00	14-9	14-11	15-1	15-3	15-5	15-7	15-9	15-10	16-0	16-2
400.00	16-9	16-11	17-2	17-4	17-6	17-8	17-11	18-1	18-3	18-5
425.00	18-11	19-2	19-4	19-7	19-9	20-0	20-2	20-5	20-7	20-10
450.00	21-3	21-6	21-8	21-11	22-2	22-5	22-8	22-11	23-1	23-4
475.00	23-8	23-11	24-2	24-6	24-9	25-0	25-3	25-6	25-9	26-0
500.00	26-3	26-6	26-10	27-1	27-5	27-8	28-0	28-3	28-7	28-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-3	4-3	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-7
225.00	5-4	5-5	5-5	5-6	5-7	5-8	5-8	5-9	5-10	5-10
250.00	6-7	6-8	6-9	6-10	6-10	6-11	7-0	7-1	7-2	7-3
275.00	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9
300.00	9-6	9-7	9-8	9-10	9-11	10-0	10-1	10-3	10-4	10-5
325.00	11-1	11-3	11-5	11-6	11-8	11-9	11-10	12-0	12-1	12-3
350.00	12-11	13-1	13-2	13-4	13-6	13-8	13-9	13-11	14-1	14-2
375.00	14-10	15-0	15-2	15-4	15-6	15-8	15-10	16-0	16-2	16-3
400.00	16-10	17-1	17-3	17-5	17-8	17-10	18-0	18-2	18-4	18-6
425.00	19-1	19-3	19-6	19-8	19-11	20-1	20-4	20-6	20-9	20-11
450.00	21-4	21-7	21-10	22-1	22-4	22-7	22-10	23-0	23-3	23-6
475.00	23-10	24-1	24-4	24-7	24-11	25-2	25-5	25-8	25-11	26-2
500.00	26-5	26-8	27-0	27-3	27-7	27-10	28-2	28-5	28-9	29-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.263

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-7	6-8	6-8	6-9	6-10	6-10	6-11	6-11	7-0	7-0
275.00	8-0	8-1	8-1	8-2	8-3	8-3	8-4	8-5	8-5	8-6
300.00	9-6	9-7	9-8	9-9	9-9	9-10	9-11	10-0	10-1	10-1
325.00	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11
350.00	12-11	13-1	13-2	13-3	13-4	13-5	13-6	13-7	13-8	13-9
375.00	14-11	15-0	15-1	15-2	15-4	15-5	15-6	15-7	15-9	15-10
400.00	16-11	17-1	17-2	17-4	17-5	17-6	17-8	17-9	17-11	18-0
425.00	19-1	19-3	19-5	19-6	19-8	19-10	19-11	20-1	20-2	20-4
450.00	21-5	21-7	21-9	21-11	22-1	22-3	22-4	22-6	22-8	22-10
475.00	23-11	24-1	24-3	24-5	24-7	24-9	24-11	25-1	25-3	25-5
500.00	26-6	26-8	26-11	27-1	27-3	27-5	27-8	27-10	28-0	28-2
525.00	29-3	29-5	29-8	29-10	30-1	30-3	30-6	30-8	30-11	31-1
550.00	32-1	32-4	32-7	32-9	33-0	33-3	33-6	33-8	33-11	34-2
575.00	35-1	35-4	35-7	35-10	36-1	36-4	36-7	36-10	37-1	37-4
600.00	38-3	38-6	38-9	39-1	39-4	39-7	39-10	40-1	40-5	40-8
625.00	41-6	41-9	42-1	42-5	42-8	43-0	43-3	43-7	43-10	44-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-8	6-8	6-9	6-9	6-10	6-10	6-11	7-0	7-0	7-1
275.00	8-0	8-1	8-2	8-2	8-3	8-4	8-4	8-5	8-6	8-6
300.00	9-7	9-7	9-8	9-9	9-10	9-11	10-0	10-0	10-1	10-2
325.00	11-3	11-4	11-5	11-6	11-6	11-7	11-8	11-9	11-10	11-11
350.00	13-0	13-1	13-2	13-4	13-5	13-6	13-7	13-8	13-9	13-10
375.00	14-11	15-1	15-2	15-3	15-4	15-6	15-7	15-8	15-9	15-11
400.00	17-0	17-2	17-3	17-4	17-6	17-7	17-9	17-10	18-0	18-1
425.00	19-2	19-4	19-6	19-7	19-9	19-11	20-0	20-2	20-4	20-5
450.00	21-6	21-8	21-10	22-0	22-2	22-4	22-6	22-7	22-9	22-11
475.00	24-0	24-2	24-4	24-6	24-8	24-10	25-0	25-2	25-4	25-6
500.00	26-7	26-10	27-0	27-2	27-4	27-7	27-9	27-11	28-1	28-4
525.00	29-4	29-7	29-9	30-0	30-2	30-5	30-7	30-10	31-0	31-3
550.00	32-3	32-5	32-8	32-11	33-2	33-5	33-7	33-10	34-1	34-3
575.00	35-3	35-6	35-9	36-0	36-3	36-6	36-9	37-0	37-3	37-6
600.00	38-4	38-8	38-11	39-3	39-6	39-9	40-0	40-4	40-7	40-10
625.00	41-8	42-0	42-3	42-7	42-10	43-2	43-5	43-9	44-0	44-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.264

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.698	0.87	2446	0.85	2500*
0	0	0	0	0.785	0.35	2764	0.35	2791
30	0	0	0	0.785	0.71	1385	0.65	1506
40	0	0	0	0.785	0.87	1129	0.8	1227
50	0	0	0	0.785	1.03	954	0.95	1028
60	0	0	0	0.785	1.18	831	1.11	887
70	0	0	0	0.785	1.32	741	1.25	784
80	0	0	0	0.785	1.46	673	1.39	708
90	0	0	0	0.785	1.58	620	1.52	648
100	0	0	0	0.785	1.66	591	1.64	600
110	0	0	0	0.785	1.73	568	1.73	568
120	0	0	0	0.785	1.79	547	1.79	547
130	0	0	0	0.785	1.86	529	1.86	529
167	0	0	0	0.785	2.08	472	2.08	472
212	0	0	0	0.785	2.34	421	2.34	421

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.698	3.49	2440	3.4	2500*
0	0	0	0	0.785	2.56	1534	2.41	1627
30	0	0	0	0.785	3.27	1202	3.11	1262
40	0	0	0	0.785	3.49	1127	3.33	1179
50	0	0	0	0.785	3.7	1063	3.54	1109
60	0	0	0	0.785	3.9	1009	3.75	1049
70	0	0	0	0.785	4.09	961	3.94	998
80	0	0	0	0.785	4.28	920	4.13	952
90	0	0	0	0.785	4.45	883	4.31	912
100	0	0	0	0.785	4.63	850	4.49	877
110	0	0	0	0.785	4.76	826	4.66	845
120	0	0	0	0.785	4.86	810	4.82	816
130	0	0	0	0.785	4.96	793	4.96	793
167	0	0	0	0.785	5.31	741	5.31	741
212	0	0	0	0.785	5.72	689	5.72	689

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.265

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.698	7.78	2462	7.66	2500*
0	0	0	0	0.785	6.82	1298	6.63	1335
30	0	0	0	0.785	7.55	1173	7.36	1203
40	0	0	0	0.785	7.78	1138	7.59	1167
50	0	0	0	0.785	8.01	1106	7.82	1133
60	0	0	0	0.785	8.23	1077	8.04	1102
70	0	0	0	0.785	8.44	1050	8.25	1073
80	0	0	0	0.785	8.65	1024	8.46	1047
90	0	0	0	0.785	8.86	1001	8.67	1022
100	0	0	0	0.785	9.06	978	8.87	999
110	0	0	0	0.785	9.26	958	9.07	977
120	0	0	0	0.785	9.39	944	9.27	956
130	0	0	0	0.785	9.51	932	9.46	937
167	0	0	0	0.785	9.95	892	9.95	892
212	0	0	0	0.785	10.45	849	10.45	849

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.698	13.79	2476	13.65	2500*
0	0	0	0	0.785	12.81	1230	12.61	1250
30	0	0	0	0.785	13.55	1164	13.34	1182
40	0	0	0	0.785	13.78	1145	13.58	1162
50	0	0	0	0.785	14.02	1126	13.81	1142
60	0	0	0	0.785	14.24	1108	14.04	1124
70	0	0	0	0.785	14.47	1091	14.26	1106
80	0	0	0	0.785	14.69	1074	14.49	1090
90	0	0	0	0.785	14.91	1059	14.71	1073
100	0	0	0	0.785	15.13	1044	14.92	1058
110	0	0	0	0.785	15.34	1029	15.14	1043
120	0	0	0	0.785	15.53	1017	15.35	1029
130	0	0	0	0.785	15.66	1008	15.56	1015
167	0	0	0	0.785	16.15	978	16.15	978
212	0	0	0	0.785	16.71	946	16.71	946

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.266

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.698	21.53	2483	21.39	2500*
0	0	0	0	0.785	20.56	1201	20.35	1214
30	0	0	0	0.785	21.29	1161	21.07	1172
40	0	0	0	0.785	21.53	1148	21.31	1159
50	0	0	0	0.785	21.76	1136	21.55	1147
60	0	0	0	0.785	22	1124	21.78	1135
70	0	0	0	0.785	22.23	1112	22.01	1123
80	0	0	0	0.785	22.46	1101	22.24	1112
90	0	0	0	0.785	22.68	1090	22.46	1101
100	0	0	0	0.785	22.91	1080	22.69	1090
110	0	0	0	0.785	23.13	1070	22.91	1080
120	0	0	0	0.785	23.35	1060	23.13	1070
130	0	0	0	0.785	23.5	1053	23.35	1060
167	0	0	0	0.785	24.01	1031	24.01	1031
212	0	0	0	0.785	24.62	1006	24.62	1006

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.267

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
100.00	0-6	0-8	0-10	0-11	1-1	1-3	1-5	1-6	1-8	1-9
125.00	0-10	1-0	1-3	1-6	1-9	1-11	2-2	2-4	2-7	2-8
150.00	1-2	1-6	1-10	2-2	2-6	2-10	3-1	3-5	3-8	3-11
175.00	1-7	2-0	2-5	2-11	3-5	3-10	4-3	4-8	5-0	5-4
200.00	2-1	2-7	3-2	3-10	4-5	5-0	5-7	6-1	6-7	6-11

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0
100.00	0-7	0-9	0-10	1-0	1-2	1-4	1-5	1-7	1-8	1-9
125.00	0-11	1-1	1-4	1-7	1-10	2-1	2-3	2-6	2-7	2-8
150.00	1-3	1-7	1-11	2-4	2-8	3-0	3-3	3-7	3-9	3-11
175.00	1-9	2-2	2-8	3-2	3-7	4-1	4-6	4-10	5-1	5-4
200.00	2-3	2-10	3-6	4-1	4-9	5-4	5-10	6-4	6-8	6-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.268

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2
125.00	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10
150.00	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-5	2-6	2-7
175.00	2-3	2-5	2-7	2-9	2-10	3-0	3-2	3-4	3-5	3-7
200.00	2-11	3-1	3-4	3-7	3-9	3-11	4-2	4-4	4-6	4-8
225.00	3-8	3-11	4-3	4-6	4-9	5-0	5-3	5-5	5-8	5-11
250.00	4-6	4-10	5-2	5-6	5-10	6-2	6-5	6-9	7-0	7-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2
125.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-10
150.00	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-7	2-8
175.00	2-4	2-6	2-8	2-10	3-0	3-2	3-3	3-5	3-7	3-8
200.00	3-1	3-3	3-6	3-8	3-11	4-1	4-3	4-5	4-8	4-9
225.00	3-10	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-10	6-0
250.00	4-9	5-1	5-5	5-9	6-1	6-5	6-8	7-0	7-3	7-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.269

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-3
175.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1
200.00	3-2	3-3	3-4	3-6	3-7	3-8	3-9	3-10	3-11	4-0
225.00	4-0	4-2	4-3	4-5	4-6	4-8	4-9	4-11	5-0	5-1
250.00	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-0	6-2	6-4
275.00	6-0	6-2	6-5	6-7	6-9	6-11	7-1	7-3	7-5	7-7
300.00	7-1	7-4	7-7	7-10	8-0	8-3	8-6	8-8	8-10	9-1
325.00	8-4	8-8	8-11	9-2	9-5	9-8	9-11	10-2	10-5	10-8
350.00	9-8	10-0	10-4	10-8	10-11	11-3	11-6	11-10	12-1	12-4
375.00	11-2	11-6	11-10	12-3	12-7	12-11	13-3	13-7	13-10	14-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4
175.00	2-6	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-1	3-2
200.00	3-3	3-4	3-5	3-7	3-8	3-9	3-10	3-11	4-0	4-1
225.00	4-1	4-3	4-4	4-6	4-7	4-9	4-10	5-0	5-1	5-2
250.00	5-1	5-3	5-5	5-7	5-9	5-10	6-0	6-2	6-3	6-5
275.00	6-2	6-4	6-6	6-9	6-11	7-1	7-3	7-5	7-7	7-9
300.00	7-4	7-7	7-9	8-0	8-3	8-5	8-8	8-10	9-1	9-3
325.00	8-7	8-10	9-2	9-5	9-8	9-11	10-2	10-5	10-8	10-10
350.00	9-11	10-3	10-7	10-11	11-2	11-6	11-9	12-1	12-4	12-7
375.00	11-5	11-10	12-2	12-6	12-10	13-2	13-6	13-10	14-2	14-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.270

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-9	3-9
225.00	4-2	4-3	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-9
250.00	5-1	5-2	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11
275.00	6-2	6-4	6-5	6-6	6-8	6-9	6-10	6-11	7-1	7-2
300.00	7-4	7-6	7-8	7-9	7-11	8-0	8-2	8-3	8-5	8-6
325.00	8-8	8-10	8-11	9-1	9-3	9-5	9-7	9-8	9-10	10-0
350.00	10-0	10-3	10-5	10-7	10-9	10-11	11-1	11-3	11-5	11-7
375.00	11-6	11-9	11-11	12-2	12-4	12-6	12-9	12-11	13-1	13-4
400.00	13-1	13-4	13-7	13-10	14-0	14-3	14-6	14-8	14-11	15-2
425.00	14-10	15-1	15-4	15-7	15-10	16-1	16-4	16-7	16-10	17-1
450.00	16-7	16-11	17-2	17-6	17-9	18-1	18-4	18-7	18-11	19-2
475.00	18-6	18-10	19-2	19-6	19-10	20-2	20-5	20-9	21-1	21-4
500.00	20-6	20-10	21-3	21-7	21-11	22-4	22-8	23-0	23-4	23-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10
225.00	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-9	4-10
250.00	5-2	5-3	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0
275.00	6-3	6-5	6-6	6-7	6-9	6-10	6-11	7-1	7-2	7-3
300.00	7-6	7-7	7-9	7-11	8-0	8-2	8-3	8-5	8-6	8-7
325.00	8-9	8-11	9-1	9-3	9-5	9-7	9-8	9-10	10-0	10-1
350.00	10-2	10-4	10-7	10-9	10-11	11-1	11-3	11-5	11-7	11-9
375.00	11-8	11-11	12-1	12-4	12-6	12-9	12-11	13-1	13-4	13-6
400.00	13-4	13-7	13-9	14-0	14-3	14-6	14-8	14-11	15-2	15-4
425.00	15-0	15-4	15-7	15-10	16-1	16-4	16-7	16-10	17-1	17-4
450.00	16-10	17-2	17-5	17-9	18-0	18-4	18-7	18-11	19-2	19-5
475.00	18-9	19-1	19-5	19-9	20-1	20-5	20-9	21-1	21-4	21-8
500.00	20-10	21-2	21-7	21-11	22-3	22-8	23-0	23-4	23-8	24-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.271

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-2	5-3	5-4	5-5	5-5	5-6	5-7	5-7	5-8	5-9
275.00	6-4	6-4	6-5	6-6	6-7	6-8	6-9	6-9	6-10	6-11
300.00	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3
325.00	8-9	8-11	9-0	9-1	9-2	9-3	9-5	9-6	9-7	9-8
350.00	10-2	10-4	10-5	10-7	10-8	10-9	10-11	11-0	11-1	11-3
375.00	11-8	11-10	12-0	12-1	12-3	12-4	12-6	12-7	12-9	12-10
400.00	13-4	13-6	13-8	13-9	13-11	14-1	14-3	14-4	14-6	14-8
425.00	15-1	15-3	15-5	15-7	15-9	15-11	16-1	16-3	16-5	16-6
450.00	16-10	17-1	17-3	17-5	17-8	17-10	18-0	18-2	18-4	18-7
475.00	18-10	19-0	19-3	19-5	19-8	19-10	20-1	20-3	20-6	20-8
500.00	20-10	21-1	21-4	21-7	21-9	22-0	22-3	22-6	22-8	22-11
525.00	23-0	23-3	23-6	23-9	24-0	24-3	24-6	24-9	25-0	25-3
550.00	25-3	25-6	25-10	26-1	26-4	26-8	26-11	27-2	27-6	27-9
575.00	27-7	27-11	28-2	28-6	28-10	29-2	29-5	29-9	30-0	30-4
600.00	30-0	30-5	30-9	31-1	31-5	31-9	32-1	32-5	32-9	33-0
625.00	32-7	33-0	33-4	33-9	34-1	34-5	34-10	35-2	35-6	35-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-3	5-4	5-4	5-5	5-6	5-7	5-7	5-8	5-9	5-9
275.00	6-4	6-5	6-6	6-7	6-8	6-9	6-9	6-10	6-11	7-0
300.00	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-4
325.00	8-11	9-0	9-1	9-2	9-3	9-5	9-6	9-7	9-8	9-9
350.00	10-4	10-5	10-6	10-8	10-9	10-11	11-0	11-1	11-3	11-4
375.00	11-10	12-0	12-1	12-3	12-4	12-6	12-7	12-9	12-10	13-0
400.00	13-5	13-7	13-9	13-11	14-1	14-3	14-4	14-6	14-8	14-9
425.00	15-2	15-4	15-7	15-9	15-11	16-1	16-3	16-5	16-6	16-8
450.00	17-0	17-3	17-5	17-7	17-10	18-0	18-2	18-4	18-7	18-9
475.00	19-0	19-2	19-5	19-8	19-10	20-1	20-3	20-6	20-8	20-10
500.00	21-1	21-3	21-6	21-9	22-0	22-3	22-5	22-8	22-11	23-2
525.00	23-3	23-6	23-9	24-0	24-3	24-6	24-9	25-0	25-3	25-6
550.00	25-6	25-9	26-1	26-4	26-8	26-11	27-2	27-6	27-9	28-0
575.00	27-10	28-2	28-6	28-10	29-1	29-5	29-9	30-0	30-4	30-7
600.00	30-4	30-8	31-0	31-4	31-9	32-1	32-5	32-8	33-0	33-4
625.00	32-11	33-4	33-8	34-1	34-5	34-9	35-2	35-6	35-10	36-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.272

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.698	0.74	2882	0.71	3000*
0	0	0	0	0.785	0.28	3464	0.28	3517
30	0	0	0	0.785	0.54	1821	0.48	2056
40	0	0	0	0.785	0.68	1439	0.59	1653
50	0	0	0	0.785	0.84	1167	0.73	1335
60	0	0	0	0.785	1	979	0.89	1104
70	0	0	0	0.785	1.16	849	1.04	941
80	0	0	0	0.785	1.3	755	1.19	824
90	0	0	0	0.785	1.44	684	1.33	737
100	0	0	0	0.785	1.51	649	1.46	671
110	0	0	0	0.785	1.59	620	1.59	620
120	0	0	0	0.785	1.65	594	1.65	594
130	0	0	0	0.785	1.72	571	1.72	571
167	0	0	0	0.785	1.95	503	1.95	503
212	0	0	0	0.785	2.22	443	2.22	443

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.698	2.95	2879	2.83	3000*
0	0	0	0	0.785	1.86	2109	1.69	2328
30	0	0	0	0.785	2.63	1496	2.4	1637
40	0	0	0	0.785	2.87	1369	2.64	1488
50	0	0	0	0.785	3.1	1266	2.88	1366
60	0	0	0	0.785	3.33	1181	3.1	1266
70	0	0	0	0.785	3.54	1109	3.32	1183
80	0	0	0	0.785	3.75	1048	3.53	1112
90	0	0	0	0.785	3.95	996	3.74	1052
100	0	0	0	0.785	4.14	950	3.93	1000
110	0	0	0	0.785	4.29	917	4.12	954
120	0	0	0	0.785	4.39	896	4.3	914
130	0	0	0	0.785	4.49	875	4.48	878
167	0	0	0	0.785	4.87	807	4.87	807
212	0	0	0	0.785	5.3	742	5.3	742

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.698	6.56	2919	6.38	3000*
0	0	0	0	0.785	5.33	1659	5.04	1756
30	0	0	0	0.785	6.19	1429	5.89	1501
40	0	0	0	0.785	6.46	1370	6.17	1435
50	0	0	0	0.785	6.72	1317	6.43	1376
60	0	0	0	0.785	6.97	1269	6.68	1324
70	0	0	0	0.785	7.22	1226	6.93	1276
80	0	0	0	0.785	7.46	1187	7.18	1233
90	0	0	0	0.785	7.69	1151	7.41	1194
100	0	0	0	0.785	7.92	1118	7.64	1158
110	0	0	0	0.785	8.14	1088	7.87	1125
120	0	0	0	0.785	8.31	1066	8.09	1095
130	0	0	0	0.785	8.44	1050	8.3	1067
167	0	0	0	0.785	8.92	994	8.92	994
212	0	0	0	0.785	9.46	937	9.46	937

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.698	11.57	2946	11.36	3000*
0	0	0	0	0.785	10.31	1527	9.98	1577
30	0	0	0	0.785	11.18	1409	10.86	1450
40	0	0	0	0.785	11.46	1375	11.14	1414
50	0	0	0	0.785	11.73	1343	11.41	1381
60	0	0	0	0.785	12	1313	11.68	1349
70	0	0	0	0.785	12.26	1285	11.94	1319
80	0	0	0	0.785	12.52	1259	12.2	1292
90	0	0	0	0.785	12.77	1234	12.46	1265
100	0	0	0	0.785	13.02	1211	12.71	1241
110	0	0	0	0.785	13.27	1189	12.95	1217
120	0	0	0	0.785	13.51	1168	13.2	1195
130	0	0	0	0.785	13.66	1154	13.43	1174
167	0	0	0	0.785	14.21	1111	14.21	1111
212	0	0	0	0.785	14.83	1065	14.83	1065

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.274

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.698	18.01	2962	17.78	3000*
0	0	0	0	0.785	16.74	1472	16.4	1502
30	0	0	0	0.785	17.61	1400	17.27	1427
40	0	0	0	0.785	17.89	1378	17.55	1404
50	0	0	0	0.785	18.17	1357	17.83	1383
60	0	0	0	0.785	18.45	1337	18.11	1362
70	0	0	0	0.785	18.72	1318	18.38	1342
80	0	0	0	0.785	18.99	1299	18.65	1323
90	0	0	0	0.785	19.25	1282	18.91	1304
100	0	0	0	0.785	19.52	1265	19.18	1287
110	0	0	0	0.785	19.77	1248	19.44	1270
120	0	0	0	0.785	20.03	1233	19.69	1254
130	0	0	0	0.785	20.24	1220	19.94	1238
167	0	0	0	0.785	20.83	1186	20.83	1186
212	0	0	0	0.785	21.51	1149	21.51	1149

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.275

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11
100.00	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-4	1-6	1-7
125.00	0-7	0-9	0-11	1-2	1-5	1-8	1-10	2-1	2-3	2-6
150.00	0-11	1-1	1-4	1-8	2-0	2-4	2-8	3-0	3-4	3-7
175.00	1-2	1-6	1-10	2-3	2-9	3-2	3-8	4-1	4-6	4-10
200.00	1-7	1-11	2-4	2-11	3-7	4-2	4-9	5-4	5-10	6-4

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11
100.00	0-5	0-6	0-8	0-10	1-0	1-2	1-4	1-5	1-6	1-7
125.00	0-8	0-10	1-1	1-4	1-7	1-10	2-0	2-3	2-4	2-6
150.00	0-11	1-3	1-6	1-11	2-3	2-7	2-11	3-3	3-5	3-7
175.00	1-4	1-8	2-1	2-7	3-1	3-7	4-0	4-5	4-8	4-10
200.00	1-8	2-2	2-9	3-4	4-0	4-8	5-2	5-9	6-1	6-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.276

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0
125.00	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6	1-6	1-7
150.00	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-4
175.00	1-8	1-10	2-0	2-2	2-5	2-7	2-8	2-10	3-0	3-2
200.00	2-2	2-5	2-8	2-11	3-1	3-4	3-6	3-9	3-11	4-1
225.00	2-9	3-0	3-4	3-8	3-11	4-2	4-6	4-9	5-0	5-3
250.00	3-4	3-9	4-2	4-6	4-10	5-2	5-6	5-10	6-2	6-5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1
125.00	0-11	1-0	1-1	1-3	1-4	1-5	1-6	1-6	1-7	1-8
150.00	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-5
175.00	1-10	2-0	2-2	2-5	2-7	2-9	2-10	3-0	3-2	3-3
200.00	2-4	2-8	2-10	3-1	3-4	3-7	3-9	3-11	4-2	4-3
225.00	3-0	3-4	3-8	3-11	4-3	4-6	4-9	5-0	5-3	5-5
250.00	3-9	4-1	4-6	4-10	5-2	5-6	5-10	6-2	6-6	6-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.277

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0
175.00	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
200.00	2-6	2-7	2-9	2-10	3-0	3-1	3-2	3-4	3-5	3-6
225.00	3-2	3-4	3-6	3-7	3-9	3-11	4-0	4-2	4-4	4-5
250.00	3-11	4-1	4-3	4-6	4-8	4-10	5-0	5-2	5-4	5-6
275.00	4-9	4-11	5-2	5-5	5-7	5-10	6-0	6-3	6-5	6-7
300.00	5-7	5-11	6-2	6-5	6-8	6-11	7-2	7-5	7-8	7-10
325.00	6-7	6-11	7-3	7-7	7-10	8-2	8-5	8-8	9-0	9-3
350.00	7-8	8-0	8-5	8-9	9-1	9-5	9-9	10-1	10-5	10-9
375.00	8-9	9-3	9-8	10-1	10-5	10-10	11-3	11-7	11-11	12-4

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-0
175.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
200.00	2-8	2-9	2-10	3-0	3-1	3-2	3-4	3-5	3-6	3-7
225.00	3-4	3-6	3-8	3-9	3-11	4-1	4-2	4-4	4-5	4-7
250.00	4-1	4-4	4-6	4-8	4-10	5-0	5-2	5-4	5-6	5-8
275.00	5-0	5-2	5-5	5-8	5-10	6-1	6-3	6-6	6-8	6-10
300.00	5-11	6-2	6-5	6-9	7-0	7-3	7-5	7-8	7-11	8-2
325.00	6-11	7-3	7-7	7-11	8-2	8-6	8-9	9-0	9-4	9-7
350.00	8-1	8-5	8-10	9-2	9-6	9-10	10-2	10-6	10-9	11-1
375.00	9-3	9-8	10-1	10-6	10-11	11-3	11-8	12-0	12-5	12-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.278

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-8	2-9	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3
225.00	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1
250.00	4-2	4-3	4-4	4-5	4-7	4-8	4-9	4-10	5-0	5-1
275.00	5-0	5-2	5-3	5-5	5-6	5-8	5-9	5-11	6-0	6-1
300.00	5-11	6-1	6-3	6-5	6-7	6-9	6-10	7-0	7-2	7-3
325.00	7-0	7-2	7-4	7-6	7-8	7-11	8-1	8-3	8-5	8-7
350.00	8-1	8-4	8-6	8-9	8-11	9-2	9-4	9-6	9-9	9-11
375.00	9-3	9-6	9-9	10-0	10-3	10-6	10-9	10-11	11-2	11-5
400.00	10-7	10-10	11-2	11-5	11-8	11-11	12-2	12-5	12-8	12-11
425.00	11-11	12-3	12-7	12-11	13-2	13-6	13-9	14-1	14-4	14-8
450.00	13-5	13-9	14-1	14-5	14-9	15-1	15-5	15-9	16-1	16-5
475.00	14-11	15-4	15-9	16-1	16-6	16-10	17-3	17-7	17-11	18-3
500.00	16-6	17-0	17-5	17-10	18-3	18-8	19-1	19-6	19-10	20-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-9	2-10	2-10	2-11	3-0	3-1	3-2	3-2	3-3	3-4
225.00	3-5	3-6	3-7	3-9	3-10	3-11	3-11	4-0	4-1	4-2
250.00	4-3	4-4	4-6	4-7	4-8	4-9	4-11	5-0	5-1	5-2
275.00	5-2	5-3	5-5	5-7	5-8	5-10	5-11	6-0	6-2	6-3
300.00	6-2	6-3	6-5	6-7	6-9	6-11	7-0	7-2	7-4	7-5
325.00	7-2	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-7	8-9
350.00	8-4	8-7	8-9	9-0	9-2	9-5	9-7	9-9	10-0	10-2
375.00	9-7	9-10	10-1	10-4	10-7	10-9	11-0	11-3	11-5	11-8
400.00	10-11	11-2	11-6	11-9	12-0	12-3	12-6	12-9	13-0	13-3
425.00	12-4	12-7	12-11	13-3	13-7	13-10	14-2	14-5	14-8	15-0
450.00	13-10	14-2	14-6	14-10	15-2	15-6	15-10	16-2	16-6	16-10
475.00	15-4	15-9	16-2	16-7	16-11	17-4	17-8	18-0	18-4	18-9
500.00	17-0	17-6	17-11	18-4	18-9	19-2	19-7	20-0	20-4	20-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.279

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-3	4-4	4-5	4-5	4-6	4-7	4-8	4-9	4-9	4-10
275.00	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-10
300.00	6-1	6-3	6-4	6-5	6-6	6-7	6-8	6-10	6-11	7-0
325.00	7-2	7-3	7-5	7-6	7-8	7-9	7-10	8-0	8-1	8-2
350.00	8-4	8-5	8-7	8-9	8-10	9-0	9-2	9-3	9-5	9-6
375.00	9-7	9-8	9-10	10-0	10-2	10-4	10-6	10-8	10-9	10-11
400.00	10-10	11-1	11-3	11-5	11-7	11-9	11-11	12-1	12-3	12-5
425.00	12-3	12-6	12-8	12-11	13-1	13-3	13-6	13-8	13-10	14-0
450.00	13-9	14-0	14-3	14-5	14-8	14-11	15-1	15-4	15-6	15-9
475.00	15-4	15-7	15-10	16-1	16-4	16-7	16-10	17-1	17-4	17-6
500.00	17-0	17-3	17-7	17-10	18-1	18-5	18-8	18-11	19-2	19-5
525.00	18-9	19-1	19-4	19-8	20-0	20-3	20-7	20-10	21-2	21-5
550.00	20-7	20-11	21-3	21-7	21-11	22-3	22-7	22-11	23-3	23-6
575.00	22-6	22-10	23-3	23-7	24-0	24-4	24-8	25-0	25-5	25-9
600.00	24-6	24-11	25-4	25-8	26-1	26-6	26-11	27-3	27-8	28-0
625.00	26-7	27-0	27-5	27-11	28-4	28-9	29-2	29-7	30-0	30-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-4	4-5	4-6	4-6	4-7	4-8	4-9	4-10	4-10	4-11
275.00	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0
300.00	6-3	6-4	6-5	6-6	6-8	6-9	6-10	6-11	7-0	7-1
325.00	7-4	7-5	7-7	7-8	7-9	7-11	8-0	8-2	8-3	8-4
350.00	8-6	8-7	8-9	8-11	9-0	9-2	9-4	9-5	9-7	9-8
375.00	9-9	9-11	10-1	10-3	10-4	10-6	10-8	10-10	11-0	11-1
400.00	11-1	11-3	11-5	11-7	11-10	12-0	12-2	12-4	12-6	12-8
425.00	12-6	12-9	12-11	13-1	13-4	13-6	13-9	13-11	14-1	14-3
450.00	14-0	14-3	14-6	14-9	14-11	15-2	15-5	15-7	15-10	16-0
475.00	15-8	15-11	16-2	16-5	16-8	16-11	17-2	17-4	17-7	17-10
500.00	17-4	17-7	17-11	18-2	18-5	18-9	19-0	19-3	19-6	19-9
525.00	19-1	19-5	19-9	20-0	20-4	20-8	20-11	21-3	21-6	21-10
550.00	21-0	21-4	21-8	22-0	22-4	22-8	23-0	23-4	23-7	23-11
575.00	22-11	23-4	23-8	24-1	24-5	24-9	25-2	25-6	25-10	26-2
600.00	25-0	25-5	25-9	26-2	26-7	27-0	27-4	27-9	28-2	28-6
625.00	27-1	27-7	28-0	28-5	28-10	29-3	29-8	30-1	30-6	30-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.280

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	3.37	1000	3.37	1000*
20	0	0	0	0.785	3.09	318	3.09	319
30	0	0	0	0.785	3.17	311	3.16	311
40	0	0	0	0.785	3.24	304	3.23	305
50	0	0	0	0.785	3.3	299	3.3	299
60	0	0	0	0.785	3.36	293	3.36	294
70	0	0	0	0.785	3.42	288	3.42	288
80	0	0	0	0.785	3.47	284	3.47	284
90	0	0	0	0.785	3.51	281	3.51	281
100	0	0	0	0.785	3.55	278	3.55	278
110	0	0	0	0.785	3.59	275	3.59	275
120	0	0	0	0.785	3.62	272	3.62	272
130	0	0	0	0.785	3.66	270	3.66	270
167	0	0	0	0.785	3.79	260	3.79	260
212	0	0	0	0.785	3.95	250	3.95	250

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	13.66	1000	13.66	1000*
20	0	0	0	0.785	13.39	298	13.39	298
30	0	0	0	0.785	13.47	297	13.46	297
40	0	0	0	0.785	13.53	295	13.53	295
50	0	0	0	0.785	13.59	294	13.59	294
60	0	0	0	0.785	13.66	293	13.65	293
70	0	0	0	0.785	13.72	292	13.71	292
80	0	0	0	0.785	13.77	290	13.77	290
90	0	0	0	0.785	13.81	290	13.81	290
100	0	0	0	0.785	13.85	289	13.85	289
110	0	0	0	0.785	13.89	288	13.89	288
120	0	0	0	0.785	13.93	287	13.93	287
130	0	0	0	0.785	13.97	287	13.97	287
167	0	0	0	0.785	14.11	284	14.11	284
212	0	0	0	0.785	14.28	280	14.28	280

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.281

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	31.51	1000	31.51	1000*
20	0	0	0	0.785	31.24	295	31.24	295
30	0	0	0	0.785	31.32	294	31.31	294
40	0	0	0	0.785	31.38	294	31.38	294
50	0	0	0	0.785	31.44	293	31.44	293
60	0	0	0	0.785	31.51	293	31.5	293
70	0	0	0	0.785	31.57	292	31.56	292
80	0	0	0	0.785	31.62	292	31.62	292
90	0	0	0	0.785	31.66	291	31.66	291
100	0	0	0	0.785	31.7	291	31.7	291
110	0	0	0	0.785	31.74	291	31.74	291
120	0	0	0	0.785	31.78	290	31.78	290
130	0	0	0	0.785	31.82	290	31.82	290
167	0	0	0	0.785	31.96	289	31.96	289
212	0	0	0	0.785	32.14	287	32.14	287

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	58.22	1000	58.22	1000*
20	0	0	0	0.785	57.95	294	57.95	294
30	0	0	0	0.785	58.02	294	58.02	294
40	0	0	0	0.785	58.09	293	58.09	293
50	0	0	0	0.785	58.15	293	58.15	293
60	0	0	0	0.785	58.21	293	58.21	293
70	0	0	0	0.785	58.27	292	58.27	292
80	0	0	0	0.785	58.32	292	58.32	292
90	0	0	0	0.785	58.36	292	58.36	292
100	0	0	0	0.785	58.4	292	58.4	292
110	0	0	0	0.785	58.44	292	58.44	292
120	0	0	0	0.785	58.48	292	58.48	292
130	0	0	0	0.785	58.52	291	58.52	291
167	0	0	0	0.785	58.67	291	58.67	291
212	0	0	0	0.785	58.85	290	58.85	290

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	96.41	1000	96.41	1000*
20	0	0	0	0.785	96.15	293	96.15	293
30	0	0	0	0.785	96.22	293	96.22	293
40	0	0	0	0.785	96.29	293	96.28	293
50	0	0	0	0.785	96.35	293	96.34	293
60	0	0	0	0.785	96.41	293	96.4	293
70	0	0	0	0.785	96.47	293	96.46	293
80	0	0	0	0.785	96.52	292	96.52	292
90	0	0	0	0.785	96.56	292	96.56	292
100	0	0	0	0.785	96.6	292	96.6	292
110	0	0	0	0.785	96.64	292	96.64	292
120	0	0	0	0.785	96.68	292	96.68	292
130	0	0	0	0.785	96.72	292	96.72	292
167	0	0	0	0.785	96.86	292	96.86	292
212	0	0	0	0.785	97.04	291	97.04	291

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.283

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-9	1-9	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0
100.00	3-1	3-2	3-3	3-4	3-4	3-5	3-6	3-6	3-7	3-7
125.00	4-10	4-11	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-7
150.00	7-0	7-2	7-3	7-5	7-7	7-8	7-10	7-11	8-0	8-1
175.00	9-6	9-9	9-11	10-2	10-4	10-6	10-8	10-9	10-11	11-0
200.00	12-5	12-8	13-0	13-3	13-6	13-9	13-11	14-1	14-3	14-5

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-9	1-9	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0
100.00	3-1	3-2	3-3	3-4	3-4	3-5	3-6	3-6	3-7	3-7
125.00	4-10	4-11	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-7
150.00	7-0	7-2	7-4	7-5	7-7	7-9	7-10	7-11	8-0	8-1
175.00	9-6	9-9	9-11	10-2	10-4	10-6	10-8	10-9	10-11	11-0
200.00	12-5	12-9	13-0	13-3	13-6	13-9	14-0	14-1	14-3	14-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.284

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-4	3-4	3-4	3-5	3-5	3-5	3-5	3-5	3-5	3-5
125.00	5-3	5-3	5-3	5-3	5-4	5-4	5-4	5-4	5-5	5-5
150.00	7-6	7-7	7-7	7-7	7-8	7-8	7-9	7-9	7-9	7-9
175.00	10-3	10-3	10-4	10-5	10-5	10-6	10-6	10-7	10-7	10-7
200.00	13-5	13-6	13-6	13-7	13-8	13-9	13-9	13-10	13-10	13-11
225.00	17-0	17-1	17-2	17-3	17-4	17-5	17-5	17-6	17-7	17-7
250.00	21-0	21-1	21-3	21-4	21-5	21-6	21-7	21-8	21-9	21-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-4	3-4	3-4	3-5	3-5	3-5	3-5	3-5	3-5	3-5
125.00	5-3	5-3	5-3	5-3	5-4	5-4	5-4	5-4	5-5	5-5
150.00	7-6	7-7	7-7	7-8	7-8	7-8	7-9	7-9	7-9	7-9
175.00	10-3	10-4	10-4	10-5	10-5	10-6	10-6	10-7	10-7	10-7
200.00	13-5	13-6	13-6	13-7	13-8	13-9	13-9	13-10	13-10	13-11
225.00	17-0	17-1	17-2	17-3	17-4	17-5	17-5	17-6	17-7	17-7
250.00	21-0	21-1	21-3	21-4	21-5	21-6	21-7	21-8	21-9	21-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.285

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-9	7-9	7-9	7-9	7-9	7-10	7-10	7-10	7-10	7-10
175.00	10-6	10-7	10-7	10-7	10-7	10-8	10-8	10-8	10-8	10-8
200.00	13-9	13-10	13-10	13-10	13-11	13-11	13-11	13-11	14-0	14-0
225.00	17-6	17-6	17-6	17-7	17-7	17-8	17-8	17-8	17-9	17-9
250.00	21-7	21-8	21-8	21-9	21-9	21-10	21-10	21-11	21-11	21-11
275.00	26-2	26-3	26-4	26-4	26-5	26-6	26-6	26-6	26-7	26-7
300.00	31-3	31-4	31-5	31-5	31-6	31-7	31-7	31-8	31-8	31-9
325.00	36-9	36-10	36-11	37-0	37-1	37-2	37-2	37-3	37-4	37-4
350.00	42-9	42-10	42-11	43-0	43-1	43-2	43-3	43-4	43-4	43-5
375.00	49-2	49-4	49-5	49-6	49-7	49-9	49-10	49-10	49-11	50-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-9	7-9	7-9	7-9	7-10	7-10	7-10	7-10	7-10	7-10
175.00	10-6	10-7	10-7	10-7	10-7	10-8	10-8	10-8	10-8	10-8
200.00	13-9	13-10	13-10	13-10	13-11	13-11	13-11	13-11	14-0	14-0
225.00	17-6	17-6	17-7	17-7	17-7	17-8	17-8	17-8	17-9	17-9
250.00	21-7	21-8	21-8	21-9	21-9	21-10	21-10	21-11	21-11	21-11
275.00	26-2	26-3	26-4	26-4	26-5	26-6	26-6	26-6	26-7	26-7
300.00	31-3	31-4	31-5	31-5	31-6	31-7	31-7	31-8	31-8	31-9
325.00	36-9	36-10	36-11	37-0	37-1	37-2	37-2	37-3	37-4	37-4
350.00	42-9	42-10	42-11	43-0	43-1	43-2	43-3	43-4	43-4	43-5
375.00	49-2	49-4	49-5	49-6	49-7	49-9	49-10	49-10	49-11	50-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.286

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	14-2	14-3	14-3	14-3	14-3	14-3	14-3	14-4	14-4	14-4
225.00	18-0	18-0	18-1	18-1	18-1	18-1	18-1	18-2	18-2	18-2
250.00	22-3	22-4	22-4	22-4	22-4	22-5	22-5	22-5	22-5	22-6
275.00	27-0	27-1	27-1	27-1	27-2	27-2	27-2	27-2	27-3	27-3
300.00	32-3	32-3	32-4	32-4	32-4	32-5	32-5	32-5	32-6	32-6
325.00	37-11	37-11	38-0	38-0	38-1	38-1	38-2	38-2	38-2	38-3
350.00	44-1	44-2	44-2	44-3	44-3	44-4	44-5	44-5	44-5	44-6
375.00	50-9	50-10	50-11	50-11	51-0	51-1	51-1	51-2	51-2	51-2
400.00	57-11	58-0	58-1	58-2	58-2	58-3	58-4	58-4	58-5	58-5
425.00	65-8	65-9	65-10	65-10	65-11	66-0	66-1	66-1	66-2	66-2
450.00	73-10	73-11	74-0	74-1	74-2	74-3	74-4	74-5	74-5	74-6
475.00	82-7	82-8	82-10	82-11	83-0	83-1	83-2	83-3	83-3	83-4
500.00	91-11	92-0	92-1	92-3	92-4	92-5	92-6	92-7	92-8	92-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	14-2	14-3	14-3	14-3	14-3	14-3	14-3	14-4	14-4	14-4
225.00	18-0	18-0	18-1	18-1	18-1	18-1	18-1	18-2	18-2	18-2
250.00	22-3	22-4	22-4	22-4	22-4	22-5	22-5	22-5	22-5	22-6
275.00	27-0	27-1	27-1	27-1	27-2	27-2	27-2	27-2	27-3	27-3
300.00	32-3	32-3	32-4	32-4	32-4	32-5	32-5	32-5	32-6	32-6
325.00	37-11	38-0	38-0	38-1	38-1	38-1	38-2	38-2	38-2	38-3
350.00	44-1	44-2	44-2	44-3	44-3	44-4	44-5	44-5	44-5	44-6
375.00	50-9	50-10	50-11	50-11	51-0	51-1	51-1	51-2	51-2	51-2
400.00	57-11	58-0	58-1	58-2	58-3	58-3	58-4	58-4	58-5	58-5
425.00	65-8	65-9	65-10	65-10	65-11	66-0	66-1	66-1	66-2	66-2
450.00	73-10	73-11	74-0	74-1	74-2	74-3	74-4	74-5	74-5	74-6
475.00	82-7	82-9	82-10	82-11	83-0	83-1	83-2	83-3	83-3	83-4
500.00	91-11	92-0	92-2	92-3	92-4	92-5	92-6	92-7	92-8	92-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.287

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	23-3	23-3	23-3	23-3	23-4	23-4	23-4	23-4	23-4	23-4
275.00	28-2	28-3	28-3	28-3	28-3	28-3	28-4	28-4	28-4	28-4
300.00	33-8	33-8	33-8	33-8	33-9	33-9	33-9	33-9	33-9	33-10
325.00	39-7	39-7	39-8	39-8	39-8	39-9	39-9	39-9	39-9	39-9
350.00	46-1	46-1	46-1	46-2	46-2	46-2	46-3	46-3	46-3	46-3
375.00	53-0	53-1	53-1	53-2	53-2	53-2	53-3	53-3	53-3	53-4
400.00	60-7	60-7	60-8	60-8	60-8	60-9	60-9	60-10	60-10	60-10
425.00	68-7	68-8	68-8	68-9	68-9	68-10	68-10	68-11	68-11	68-11
450.00	77-3	77-3	77-4	77-5	77-5	77-6	77-6	77-7	77-7	77-7
475.00	86-5	86-5	86-6	86-7	86-7	86-8	86-9	86-9	86-10	86-10
500.00	96-2	96-3	96-3	96-4	96-5	96-6	96-6	96-7	96-7	96-8
525.00	106-6	106-7	106-8	106-8	106-9	106-10	106-11	106-11	107-0	107-0
550.00	117-5	117-6	117-7	117-8	117-9	117-10	117-11	117-11	118-0	118-1
575.00	129-0	129-1	129-2	129-3	129-4	129-5	129-6	129-7	129-7	129-8
600.00	141-2	141-4	141-5	141-6	141-7	141-8	141-9	141-10	141-11	141-11
625.00	154-0	154-2	154-3	154-4	154-6	154-7	154-8	154-9	154-10	154-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	23-3	23-3	23-3	23-3	23-4	23-4	23-4	23-4	23-4	23-4
275.00	28-2	28-3	28-3	28-3	28-3	28-3	28-4	28-4	28-4	28-4
300.00	33-8	33-8	33-8	33-8	33-9	33-9	33-9	33-9	33-9	33-10
325.00	39-7	39-7	39-8	39-8	39-8	39-9	39-9	39-9	39-9	39-9
350.00	46-1	46-1	46-1	46-2	46-2	46-2	46-3	46-3	46-3	46-3
375.00	53-0	53-1	53-1	53-2	53-2	53-2	53-3	53-3	53-3	53-4
400.00	60-7	60-7	60-8	60-8	60-9	60-9	60-9	60-10	60-10	60-10
425.00	68-7	68-8	68-8	68-9	68-10	68-10	68-10	68-11	68-11	68-11
450.00	77-3	77-3	77-4	77-5	77-5	77-6	77-6	77-7	77-7	77-7
475.00	86-5	86-6	86-6	86-7	86-8	86-8	86-9	86-9	86-10	86-10
500.00	96-2	96-3	96-3	96-4	96-5	96-6	96-6	96-7	96-7	96-8
525.00	106-6	106-7	106-8	106-9	106-9	106-10	106-11	106-11	107-0	107-0
550.00	117-5	117-6	117-7	117-8	117-9	117-10	117-11	117-11	118-0	118-1
575.00	129-0	129-1	129-2	129-3	129-4	129-5	129-6	129-7	129-7	129-8
600.00	141-2	141-4	141-5	141-6	141-7	141-8	141-9	141-10	141-11	141-11
625.00	154-1	154-2	154-3	154-5	154-6	154-7	154-8	154-9	154-10	154-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.288

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	2.24	1500	2.24	1500*
20	0	0	0	0.785	1.78	552	1.76	557
30	0	0	0	0.785	1.89	520	1.88	523
40	0	0	0	0.785	1.99	493	1.98	496
50	0	0	0	0.785	2.09	470	2.08	473
60	0	0	0	0.785	2.18	450	2.17	453
70	0	0	0	0.785	2.27	432	2.26	435
80	0	0	0	0.785	2.36	416	2.35	419
90	0	0	0	0.785	2.43	405	2.43	405
100	0	0	0	0.785	2.48	396	2.48	396
110	0	0	0	0.785	2.53	388	2.53	389
120	0	0	0	0.785	2.58	381	2.58	381
130	0	0	0	0.785	2.63	374	2.63	374
167	0	0	0	0.785	2.81	351	2.81	351
212	0	0	0	0.785	3.01	327	3.01	327

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	9.01	1500	9.01	1500*
20	0	0	0	0.785	8.57	461	8.56	462
30	0	0	0	0.785	8.67	456	8.66	456
40	0	0	0	0.785	8.77	451	8.76	452
50	0	0	0	0.785	8.86	446	8.85	447
60	0	0	0	0.785	8.96	442	8.94	442
70	0	0	0	0.785	9.05	437	9.03	438
80	0	0	0	0.785	9.14	433	9.13	434
90	0	0	0	0.785	9.22	429	9.22	430
100	0	0	0	0.785	9.28	427	9.28	427
110	0	0	0	0.785	9.34	424	9.33	424
120	0	0	0	0.785	9.39	422	9.39	422
130	0	0	0	0.785	9.45	419	9.45	419
167	0	0	0	0.785	9.66	410	9.66	410
212	0	0	0	0.785	9.9	400	9.9	400

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.289

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.682	20.49	1500	20.49	1500*
20	0	0	0	0.785	20.05	448	20.04	449
30	0	0	0	0.785	20.16	446	20.14	446
40	0	0	0	0.785	20.25	444	20.24	444
50	0	0	0	0.785	20.34	442	20.33	442
60	0	0	0	0.785	20.44	440	20.42	440
70	0	0	0	0.785	20.53	438	20.51	439
80	0	0	0	0.785	20.62	436	20.6	437
90	0	0	0	0.785	20.7	435	20.7	435
100	0	0	0	0.785	20.76	434	20.76	434
110	0	0	0	0.785	20.82	432	20.82	432
120	0	0	0	0.785	20.88	431	20.88	431
130	0	0	0	0.785	20.94	430	20.94	430
167	0	0	0	0.785	21.15	426	21.15	426
212	0	0	0	0.785	21.41	421	21.41	421

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.682	36.99	1500	36.99	1500*
20	0	0	0	0.785	36.55	444	36.54	444
30	0	0	0	0.785	36.65	443	36.64	443
40	0	0	0	0.785	36.75	442	36.73	442
50	0	0	0	0.785	36.84	441	36.83	441
60	0	0	0	0.785	36.93	440	36.92	440
70	0	0	0	0.785	37.02	439	37.01	439
80	0	0	0	0.785	37.12	438	37.1	438
90	0	0	0	0.785	37.2	437	37.19	437
100	0	0	0	0.785	37.26	436	37.26	436
110	0	0	0	0.785	37.32	435	37.32	435
120	0	0	0	0.785	37.38	435	37.38	435
130	0	0	0	0.785	37.44	434	37.44	434
167	0	0	0	0.785	37.66	432	37.66	432
212	0	0	0	0.785	37.92	429	37.92	429

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.290

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	59	1500	59	1500*
20	0	0	0	0.785	58.57	442	58.55	442
30	0	0	0	0.785	58.67	441	58.66	441
40	0	0	0	0.785	58.76	441	58.75	441
50	0	0	0	0.785	58.85	440	58.84	440
60	0	0	0	0.785	58.95	439	58.93	439
70	0	0	0	0.785	59.04	439	59.02	439
80	0	0	0	0.785	59.13	438	59.12	438
90	0	0	0	0.785	59.21	438	59.21	438
100	0	0	0	0.785	59.27	437	59.27	437
110	0	0	0	0.785	59.33	437	59.33	437
120	0	0	0	0.785	59.39	436	59.39	436
130	0	0	0	0.785	59.45	436	59.45	436
167	0	0	0	0.785	59.67	435	59.67	435
212	0	0	0	0.785	59.94	433	59.94	433

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.291

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-4	1-5	1-5
100.00	1-9	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-6
125.00	2-9	2-11	3-1	3-3	3-5	3-6	3-8	3-10	3-11	4-0
150.00	4-0	4-3	4-5	4-8	4-11	5-1	5-3	5-6	5-7	5-8
175.00	5-5	5-9	6-1	6-4	6-8	6-11	7-2	7-5	7-7	7-9
200.00	7-1	7-6	7-11	8-4	8-8	9-1	9-5	9-9	9-11	10-2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-4	1-5	1-5
100.00	1-9	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-6
125.00	2-9	2-11	3-1	3-3	3-5	3-7	3-8	3-10	3-11	4-0
150.00	4-0	4-3	4-6	4-8	4-11	5-1	5-4	5-6	5-7	5-8
175.00	5-5	5-10	6-1	6-5	6-8	7-0	7-3	7-5	7-7	7-9
200.00	7-1	7-7	8-0	8-4	8-9	9-1	9-6	9-9	9-11	10-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-2	2-2	2-2	2-3	2-3	2-3	2-3	2-4	2-4	2-4
125.00	3-4	3-5	3-5	3-5	3-6	3-6	3-7	3-7	3-7	3-8
150.00	4-10	4-10	4-11	5-0	5-0	5-1	5-2	5-2	5-3	5-3
175.00	6-7	6-8	6-8	6-9	6-10	6-11	7-0	7-1	7-1	7-2
200.00	8-7	8-8	8-9	8-10	8-11	9-0	9-2	9-3	9-3	9-4
225.00	10-10	11-0	11-1	11-3	11-4	11-5	11-7	11-8	11-9	11-10
250.00	13-5	13-7	13-8	13-10	14-0	14-2	14-3	14-5	14-6	14-7

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-2	2-2	2-2	2-3	2-3	2-3	2-3	2-4	2-4	2-4
125.00	3-4	3-5	3-5	3-5	3-6	3-6	3-7	3-7	3-7	3-8
150.00	4-10	4-10	4-11	5-0	5-0	5-1	5-2	5-2	5-3	5-3
175.00	6-7	6-8	6-9	6-9	6-10	6-11	7-0	7-1	7-1	7-2
200.00	8-7	8-8	8-9	8-10	8-11	9-1	9-2	9-3	9-3	9-4
225.00	10-10	11-0	11-1	11-3	11-4	11-6	11-7	11-8	11-9	11-10
250.00	13-5	13-7	13-9	13-10	14-0	14-2	14-4	14-5	14-6	14-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.293

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-0	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-2	5-2
175.00	6-10	6-10	6-10	6-11	6-11	6-11	7-0	7-0	7-0	7-1
200.00	8-11	8-11	9-0	9-0	9-1	9-1	9-2	9-2	9-2	9-3
225.00	11-3	11-4	11-4	11-5	11-5	11-6	11-7	11-7	11-8	11-8
250.00	13-11	14-0	14-0	14-1	14-2	14-3	14-3	14-4	14-5	14-5
275.00	16-10	16-11	17-0	17-1	17-2	17-3	17-4	17-4	17-5	17-6
300.00	20-0	20-2	20-3	20-4	20-5	20-6	20-7	20-8	20-9	20-10
325.00	23-6	23-8	23-9	23-11	24-0	24-1	24-2	24-4	24-5	24-6
350.00	27-4	27-6	27-7	27-9	27-10	28-0	28-1	28-3	28-4	28-5
375.00	31-5	31-7	31-9	31-10	32-0	32-2	32-4	32-5	32-7	32-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-0	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-2	5-2
175.00	6-10	6-10	6-10	6-11	6-11	6-11	7-0	7-0	7-0	7-1
200.00	8-11	8-11	9-0	9-0	9-1	9-1	9-2	9-2	9-2	9-3
225.00	11-3	11-4	11-4	11-5	11-6	11-6	11-7	11-7	11-8	11-8
250.00	13-11	14-0	14-0	14-1	14-2	14-3	14-4	14-4	14-5	14-5
275.00	16-10	16-11	17-0	17-1	17-2	17-3	17-4	17-5	17-5	17-6
300.00	20-1	20-2	20-3	20-4	20-5	20-6	20-7	20-8	20-9	20-10
325.00	23-7	23-8	23-9	23-11	24-0	24-1	24-3	24-4	24-5	24-6
350.00	27-4	27-6	27-7	27-9	27-11	28-0	28-2	28-3	28-4	28-5
375.00	31-5	31-7	31-9	31-11	32-0	32-2	32-4	32-6	32-7	32-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.294

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-1	9-1	9-1	9-2	9-2	9-2	9-2	9-3	9-3	9-3
225.00	11-6	11-6	11-6	11-7	11-7	11-7	11-8	11-8	11-8	11-9
250.00	14-2	14-3	14-3	14-3	14-4	14-4	14-5	14-5	14-5	14-6
275.00	17-2	17-3	17-3	17-4	17-4	17-5	17-5	17-6	17-6	17-6
300.00	20-5	20-6	20-7	20-7	20-8	20-9	20-9	20-10	20-10	20-11
325.00	24-0	24-1	24-2	24-3	24-3	24-4	24-5	24-6	24-6	24-6
350.00	27-11	28-0	28-1	28-1	28-2	28-3	28-4	28-5	28-5	28-6
375.00	32-1	32-2	32-3	32-4	32-5	32-6	32-7	32-8	32-8	32-9
400.00	36-6	36-8	36-9	36-10	36-11	37-0	37-1	37-2	37-3	37-4
425.00	41-4	41-5	41-6	41-8	41-9	41-10	41-11	42-1	42-1	42-2
450.00	46-4	46-6	46-8	46-9	46-10	47-0	47-1	47-3	47-4	47-4
475.00	51-9	51-11	52-0	52-2	52-4	52-5	52-7	52-8	52-9	52-10
500.00	57-5	57-7	57-9	57-11	58-1	58-2	58-4	58-6	58-7	58-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-1	9-1	9-1	9-2	9-2	9-2	9-2	9-3	9-3	9-3
225.00	11-6	11-6	11-6	11-7	11-7	11-8	11-8	11-8	11-8	11-9
250.00	14-2	14-3	14-3	14-4	14-4	14-4	14-5	14-5	14-5	14-6
275.00	17-2	17-3	17-3	17-4	17-4	17-5	17-5	17-6	17-6	17-6
300.00	20-6	20-6	20-7	20-7	20-8	20-9	20-9	20-10	20-10	20-11
325.00	24-0	24-1	24-2	24-3	24-3	24-4	24-5	24-6	24-6	24-6
350.00	27-11	28-0	28-1	28-2	28-2	28-3	28-4	28-5	28-5	28-6
375.00	32-1	32-2	32-3	32-4	32-5	32-6	32-7	32-8	32-8	32-9
400.00	36-7	36-8	36-9	36-10	36-11	37-0	37-1	37-2	37-3	37-4
425.00	41-4	41-5	41-7	41-8	41-9	41-10	42-0	42-1	42-1	42-2
450.00	46-5	46-6	46-8	46-9	46-11	47-0	47-1	47-3	47-4	47-4
475.00	51-9	51-11	52-1	52-2	52-4	52-5	52-7	52-8	52-9	52-10
500.00	57-6	57-7	57-9	57-11	58-1	58-3	58-4	58-6	58-7	58-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.295

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	14-5	14-6	14-6	14-6	14-6	14-7	14-7	14-7	14-7	14-8
275.00	17-6	17-6	17-7	17-7	17-7	17-8	17-8	17-8	17-8	17-9
300.00	20-10	20-11	20-11	20-11	21-0	21-0	21-0	21-1	21-1	21-1
325.00	24-6	24-6	24-7	24-7	24-8	24-8	24-9	24-9	24-9	24-10
350.00	28-5	28-6	28-6	28-7	28-7	28-8	28-8	28-9	28-9	28-10
375.00	32-8	32-9	32-10	32-10	32-11	32-11	33-0	33-1	33-1	33-1
400.00	37-3	37-4	37-4	37-5	37-6	37-6	37-7	37-8	37-8	37-9
425.00	42-1	42-2	42-3	42-4	42-4	42-5	42-6	42-7	42-7	42-8
450.00	47-3	47-4	47-5	47-6	47-7	47-8	47-9	47-10	47-10	47-11
475.00	52-9	52-10	52-11	53-0	53-1	53-2	53-3	53-4	53-5	53-5
500.00	58-7	58-8	58-9	58-10	58-11	59-0	59-1	59-2	59-3	59-4
525.00	64-8	64-9	64-11	65-0	65-1	65-2	65-4	65-5	65-6	65-6
550.00	71-1	71-3	71-4	71-6	71-7	71-8	71-10	71-11	72-0	72-1
575.00	77-11	78-0	78-2	78-3	78-5	78-6	78-8	78-9	78-10	78-11
600.00	85-0	85-2	85-3	85-5	85-6	85-8	85-10	85-11	86-0	86-1
625.00	92-5	92-7	92-9	92-10	93-0	93-2	93-4	93-5	93-7	93-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	14-5	14-6	14-6	14-6	14-6	14-7	14-7	14-7	14-7	14-8
275.00	17-6	17-6	17-7	17-7	17-7	17-8	17-8	17-8	17-8	17-9
300.00	20-10	20-11	20-11	20-11	21-0	21-0	21-1	21-1	21-1	21-1
325.00	24-6	24-6	24-7	24-7	24-8	24-8	24-9	24-9	24-9	24-10
350.00	28-5	28-6	28-6	28-7	28-7	28-8	28-9	28-9	28-9	28-10
375.00	32-8	32-9	32-10	32-10	32-11	32-11	33-0	33-1	33-1	33-1
400.00	37-3	37-4	37-4	37-5	37-6	37-7	37-7	37-8	37-8	37-9
425.00	42-1	42-2	42-3	42-4	42-5	42-5	42-6	42-7	42-7	42-8
450.00	47-3	47-4	47-5	47-6	47-7	47-8	47-9	47-10	47-10	47-11
475.00	52-9	52-10	52-11	53-0	53-1	53-2	53-3	53-4	53-5	53-5
500.00	58-7	58-8	58-9	58-10	58-11	59-0	59-2	59-3	59-3	59-4
525.00	64-8	64-10	64-11	65-0	65-1	65-3	65-4	65-5	65-6	65-6
550.00	71-2	71-3	71-4	71-6	71-7	71-8	71-10	71-11	72-0	72-1
575.00	77-11	78-0	78-2	78-3	78-5	78-6	78-8	78-9	78-10	78-11
600.00	85-0	85-2	85-3	85-5	85-7	85-8	85-10	85-11	86-0	86-1
625.00	92-5	92-7	92-9	92-11	93-0	93-2	93-4	93-6	93-7	93-8

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SHEET 296 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.296

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.682	1.68	1998	1.68	2000*
20	0	0	0	0.785	0.98	1005	0.96	1026
30	0	0	0	0.785	1.13	867	1.11	886
40	0	0	0	0.785	1.28	768	1.25	784
50	0	0	0	0.785	1.41	694	1.39	708
60	0	0	0	0.785	1.54	637	1.52	648
70	0	0	0	0.785	1.66	591	1.64	601
80	0	0	0	0.785	1.78	553	1.75	562
90	0	0	0	0.785	1.88	522	1.86	529
100	0	0	0	0.785	1.96	503	1.96	503
110	0	0	0	0.785	2.02	487	2.02	488
120	0	0	0	0.785	2.08	474	2.08	474
130	0	0	0	0.785	2.13	461	2.13	461
167	0	0	0	0.785	2.34	420	2.34	420
212	0	0	0	0.785	2.57	383	2.57	383

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.682	6.74	2000	6.74	2000*
20	0	0	0	0.785	6.08	648	6.06	650
30	0	0	0	0.785	6.21	634	6.19	637
40	0	0	0	0.785	6.34	621	6.32	624
50	0	0	0	0.785	6.47	609	6.44	612
60	0	0	0	0.785	6.6	598	6.57	600
70	0	0	0	0.785	6.72	587	6.69	589
80	0	0	0	0.785	6.84	577	6.81	579
90	0	0	0	0.785	6.96	567	6.93	569
100	0	0	0	0.785	7.06	559	7.05	560
110	0	0	0	0.785	7.13	553	7.13	553
120	0	0	0	0.785	7.21	547	7.21	547
130	0	0	0	0.785	7.28	542	7.28	542
167	0	0	0	0.785	7.54	524	7.54	524
212	0	0	0	0.785	7.85	503	7.85	503

* Design Condition

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SHEET 297 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.297

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	15.24	2000	15.24	2000*
20	0	0	0	0.785	14.6	611	14.58	612
30	0	0	0	0.785	14.73	605	14.7	606
40	0	0	0	0.785	14.85	600	14.83	601
50	0	0	0	0.785	14.98	596	14.95	597
60	0	0	0	0.785	15.1	591	15.08	592
70	0	0	0	0.785	15.22	586	15.2	587
80	0	0	0	0.785	15.35	581	15.32	583
90	0	0	0	0.785	15.47	577	15.44	578
100	0	0	0	0.785	15.58	573	15.56	574
110	0	0	0	0.785	15.66	570	15.66	570
120	0	0	0	0.785	15.73	567	15.73	567
130	0	0	0	0.785	15.81	565	15.81	565
167	0	0	0	0.785	16.09	555	16.09	555
212	0	0	0	0.785	16.42	544	16.42	544

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	27.32	2000	27.32	2000*
20	0	0	0	0.785	26.68	599	26.66	599
30	0	0	0	0.785	26.81	596	26.79	597
40	0	0	0	0.785	26.93	594	26.91	594
50	0	0	0	0.785	27.06	591	27.03	591
60	0	0	0	0.785	27.18	588	27.15	589
70	0	0	0	0.785	27.3	586	27.28	586
80	0	0	0	0.785	27.43	583	27.4	584
90	0	0	0	0.785	27.55	581	27.52	581
100	0	0	0	0.785	27.67	578	27.64	579
110	0	0	0	0.785	27.74	577	27.74	577
120	0	0	0	0.785	27.82	575	27.82	575
130	0	0	0	0.785	27.9	574	27.9	574
167	0	0	0	0.785	28.19	568	28.19	568
212	0	0	0	0.785	28.53	561	28.53	561

* Design Condition

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SHEET 298 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.298

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	43.16	2000	43.16	2000*
20	0	0	0	0.785	42.52	594	42.5	594
30	0	0	0	0.785	42.65	592	42.62	592
40	0	0	0	0.785	42.77	590	42.75	591
50	0	0	0	0.785	42.9	589	42.87	589
60	0	0	0	0.785	43.02	587	42.99	588
70	0	0	0	0.785	43.14	586	43.11	586
80	0	0	0	0.785	43.26	584	43.24	584
90	0	0	0	0.785	43.39	582	43.36	583
100	0	0	0	0.785	43.5	581	43.48	581
110	0	0	0	0.785	43.58	580	43.58	580
120	0	0	0	0.785	43.66	579	43.66	579
130	0	0	0	0.785	43.74	578	43.74	578
167	0	0	0	0.785	44.03	574	44.03	574
212	0	0	0	0.785	44.38	570	44.38	570

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.299

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2
100.00	0-11	1-1	1-3	1-5	1-6	1-8	1-9	1-10	1-11	2-0
125.00	1-6	1-9	1-11	2-2	2-4	2-7	2-9	2-11	3-1	3-2
150.00	2-2	2-6	2-10	3-1	3-5	3-8	3-11	4-2	4-5	4-6
175.00	2-11	3-5	3-10	4-3	4-8	5-0	5-4	5-8	6-0	6-2
200.00	3-10	4-5	5-0	5-7	6-1	6-7	7-0	7-5	7-10	8-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-1	1-2
100.00	1-0	1-2	1-3	1-5	1-7	1-8	1-9	1-11	1-11	2-0
125.00	1-6	1-9	2-0	2-3	2-5	2-7	2-9	2-11	3-1	3-2
150.00	2-2	2-7	2-11	3-2	3-6	3-9	4-0	4-3	4-5	4-6
175.00	3-0	3-6	3-11	4-4	4-9	5-1	5-5	5-9	6-0	6-2
200.00	3-11	4-6	5-1	5-8	6-2	6-8	7-1	7-7	7-10	8-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.300

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-7	1-7	1-7	1-8	1-8	1-8	1-9	1-9	1-9
125.00	2-4	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-9	2-9
150.00	3-5	3-6	3-7	3-7	3-8	3-9	3-10	3-11	4-0	4-0
175.00	4-8	4-9	4-10	4-11	5-0	5-1	5-3	5-4	5-5	5-6
200.00	6-1	6-2	6-4	6-5	6-7	6-8	6-10	6-11	7-1	7-2
225.00	7-8	7-10	8-0	8-2	8-4	8-6	8-7	8-9	8-11	9-0
250.00	9-6	9-8	9-11	10-1	10-3	10-6	10-8	10-10	11-0	11-2

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-7	1-7	1-7	1-8	1-8	1-8	1-9	1-9	1-9
125.00	2-4	2-5	2-6	2-6	2-7	2-7	2-8	2-9	2-9	2-9
150.00	3-5	3-6	3-7	3-8	3-8	3-9	3-10	3-11	4-0	4-0
175.00	4-8	4-9	4-10	4-11	5-1	5-2	5-3	5-4	5-5	5-6
200.00	6-1	6-3	6-4	6-6	6-7	6-9	6-10	6-11	7-1	7-2
225.00	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-10	8-11	9-0
250.00	9-6	9-9	9-11	10-1	10-4	10-6	10-8	10-11	11-1	11-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.301

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-8	3-8	3-8	3-9	3-9	3-9	3-10	3-10	3-11	3-11
175.00	4-11	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4
200.00	6-6	6-6	6-7	6-8	6-8	6-9	6-10	6-10	6-11	6-11
225.00	8-2	8-3	8-4	8-5	8-6	8-6	8-7	8-8	8-9	8-10
250.00	10-1	10-2	10-3	10-4	10-6	10-7	10-8	10-9	10-10	10-10
275.00	12-3	12-4	12-5	12-7	12-8	12-9	12-10	13-0	13-1	13-2
300.00	14-7	14-8	14-10	14-11	15-1	15-2	15-4	15-5	15-7	15-8
325.00	17-1	17-3	17-5	17-7	17-8	17-10	18-0	18-2	18-3	18-5
350.00	19-10	20-0	20-2	20-5	20-7	20-9	20-11	21-0	21-2	21-4
375.00	22-10	23-0	23-3	23-5	23-7	23-10	24-0	24-2	24-4	24-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-8	3-8	3-8	3-9	3-9	3-10	3-10	3-10	3-11	3-11
175.00	4-11	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-3	5-4
200.00	6-6	6-6	6-7	6-8	6-8	6-9	6-10	6-10	6-11	6-11
225.00	8-2	8-3	8-4	8-5	8-6	8-7	8-7	8-8	8-9	8-10
250.00	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-10
275.00	12-3	12-4	12-6	12-7	12-8	12-9	12-11	13-0	13-1	13-2
300.00	14-7	14-9	14-10	15-0	15-1	15-3	15-4	15-6	15-7	15-8
325.00	17-2	17-4	17-5	17-7	17-9	17-11	18-0	18-2	18-4	18-5
350.00	19-11	20-1	20-3	20-5	20-7	20-9	20-11	21-1	21-3	21-4
375.00	22-10	23-1	23-3	23-5	23-8	23-10	24-0	24-3	24-5	24-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.302

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-8	6-8	6-8	6-9	6-9	6-9	6-10	6-10	6-11	6-11
225.00	8-5	8-5	8-6	8-6	8-7	8-7	8-8	8-8	8-8	8-9
250.00	10-5	10-5	10-6	10-6	10-7	10-7	10-8	10-9	10-9	10-10
275.00	12-7	12-7	12-8	12-9	12-10	12-10	12-11	13-0	13-0	13-1
300.00	14-11	15-0	15-1	15-2	15-3	15-4	15-4	15-5	15-6	15-7
325.00	17-7	17-8	17-9	17-10	17-11	18-0	18-1	18-2	18-3	18-3
350.00	20-5	20-6	20-7	20-8	20-9	20-10	20-11	21-0	21-2	21-3
375.00	23-5	23-6	23-8	23-9	23-10	23-11	24-1	24-2	24-3	24-4
400.00	26-8	26-9	26-11	27-0	27-2	27-3	27-5	27-6	27-8	27-9
425.00	30-1	30-3	30-5	30-6	30-8	30-10	30-11	31-1	31-3	31-4
450.00	33-10	33-11	34-1	34-3	34-5	34-7	34-9	34-11	35-0	35-2
475.00	37-8	37-10	38-0	38-3	38-5	38-7	38-9	38-11	39-1	39-3
500.00	41-9	42-0	42-2	42-5	42-7	42-9	43-0	43-2	43-4	43-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-8	6-8	6-8	6-9	6-9	6-10	6-10	6-10	6-11	6-11
225.00	8-5	8-5	8-6	8-6	8-7	8-7	8-8	8-8	8-9	8-9
250.00	10-5	10-5	10-6	10-6	10-7	10-8	10-8	10-9	10-9	10-10
275.00	12-7	12-8	12-8	12-9	12-10	12-10	12-11	13-0	13-0	13-1
300.00	15-0	15-0	15-1	15-2	15-3	15-4	15-5	15-5	15-6	15-7
325.00	17-7	17-8	17-9	17-10	17-11	18-0	18-1	18-2	18-3	18-3
350.00	20-5	20-6	20-7	20-8	20-9	20-10	21-0	21-1	21-2	21-3
375.00	23-5	23-7	23-8	23-9	23-10	24-0	24-1	24-2	24-4	24-4
400.00	26-8	26-10	26-11	27-1	27-2	27-4	27-5	27-7	27-8	27-9
425.00	30-2	30-3	30-5	30-7	30-9	30-10	31-0	31-2	31-3	31-4
450.00	33-10	34-0	34-2	34-4	34-5	34-7	34-9	34-11	35-1	35-2
475.00	37-9	37-11	38-1	38-3	38-5	38-7	38-9	38-11	39-1	39-3
500.00	41-10	42-0	42-3	42-5	42-7	42-10	43-0	43-2	43-5	43-6

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SHEET 303 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.303

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-7	10-7	10-7	10-8	10-8	10-8	10-9	10-9	10-9	10-10
275.00	12-9	12-10	12-10	12-11	12-11	12-11	13-0	13-0	13-1	13-1
300.00	15-2	15-3	15-4	15-4	15-5	15-5	15-6	15-6	15-7	15-7
325.00	17-10	17-11	18-0	18-0	18-1	18-1	18-2	18-3	18-3	18-4
350.00	20-9	20-9	20-10	20-11	21-0	21-0	21-1	21-2	21-2	21-3
375.00	23-10	23-11	23-11	24-0	24-1	24-2	24-3	24-3	24-4	24-5
400.00	27-1	27-2	27-3	27-4	27-5	27-6	27-7	27-8	27-9	27-10
425.00	30-7	30-9	30-10	30-11	31-0	31-1	31-2	31-3	31-4	31-5
450.00	34-4	34-6	34-7	34-8	34-9	34-10	34-11	35-1	35-2	35-3
475.00	38-4	38-5	38-7	38-8	38-9	38-10	39-0	39-1	39-2	39-4
500.00	42-6	42-7	42-9	42-10	43-0	43-1	43-3	43-4	43-6	43-7
525.00	46-11	47-0	47-2	47-4	47-5	47-7	47-9	47-10	48-0	48-1
550.00	51-6	51-8	51-10	52-0	52-2	52-3	52-5	52-7	52-9	52-10
575.00	56-4	56-7	56-8	56-10	57-0	57-2	57-4	57-6	57-8	57-10
600.00	61-5	61-8	61-10	62-0	62-2	62-4	62-6	62-8	62-11	63-0
625.00	66-9	66-11	67-2	67-4	67-6	67-9	67-11	68-1	68-4	68-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-7	10-7	10-7	10-8	10-8	10-8	10-9	10-9	10-10	10-10
275.00	12-9	12-10	12-10	12-11	12-11	13-0	13-0	13-0	13-1	13-1
300.00	15-3	15-3	15-4	15-4	15-5	15-5	15-6	15-6	15-7	15-7
325.00	17-10	17-11	18-0	18-0	18-1	18-2	18-2	18-3	18-3	18-4
350.00	20-9	20-10	20-10	20-11	21-0	21-0	21-1	21-2	21-3	21-3
375.00	23-10	23-11	24-0	24-0	24-1	24-2	24-3	24-4	24-4	24-5
400.00	27-1	27-2	27-3	27-4	27-5	27-6	27-7	27-8	27-9	27-10
425.00	30-8	30-9	30-10	30-11	31-0	31-1	31-2	31-3	31-4	31-5
450.00	34-5	34-6	34-7	34-8	34-9	34-11	35-0	35-1	35-2	35-3
475.00	38-4	38-5	38-7	38-8	38-9	38-11	39-0	39-1	39-3	39-4
500.00	42-6	42-8	42-9	42-11	43-0	43-2	43-3	43-5	43-6	43-7
525.00	46-11	47-1	47-2	47-4	47-6	47-7	47-9	47-11	48-0	48-1
550.00	51-7	51-8	51-10	52-0	52-2	52-4	52-5	52-7	52-9	52-10
575.00	56-5	56-7	56-9	56-11	57-1	57-3	57-5	57-7	57-9	57-10
600.00	61-6	61-8	61-10	62-0	62-3	62-5	62-7	62-9	62-11	63-0
625.00	66-10	67-0	67-2	67-5	67-7	67-9	68-0	68-2	68-4	68-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.304

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	1.37	2446	1.34	2500*
20	0	0	0	0.785	0.53	1869	0.49	2013
30	0	0	0	0.785	0.67	1475	0.61	1619
40	0	0	0	0.785	0.82	1192	0.75	1310
50	0	0	0	0.785	0.98	997	0.9	1087
60	0	0	0	0.785	1.14	861	1.06	929
70	0	0	0	0.785	1.29	764	1.2	815
80	0	0	0	0.785	1.42	691	1.34	731
90	0	0	0	0.785	1.55	634	1.47	666
100	0	0	0	0.785	1.63	603	1.6	615
110	0	0	0	0.785	1.7	579	1.7	579
120	0	0	0	0.785	1.76	557	1.76	557
130	0	0	0	0.785	1.83	538	1.83	538
167	0	0	0	0.785	2.05	479	2.05	479
212	0	0	0	0.785	2.31	426	2.31	426

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	5.4	2492	5.38	2500*
20	0	0	0	0.785	4.48	878	4.42	890
30	0	0	0	0.785	4.65	845	4.59	857
40	0	0	0	0.785	4.82	816	4.76	827
50	0	0	0	0.785	4.98	790	4.92	800
60	0	0	0	0.785	5.14	765	5.08	775
70	0	0	0	0.785	5.3	743	5.23	752
80	0	0	0	0.785	5.45	723	5.38	731
90	0	0	0	0.785	5.59	704	5.53	712
100	0	0	0	0.785	5.73	687	5.67	694
110	0	0	0	0.785	5.83	675	5.81	678
120	0	0	0	0.785	5.92	665	5.92	665
130	0	0	0	0.785	6	656	6	656
167	0	0	0	0.785	6.31	625	6.31	625
212	0	0	0	0.785	6.66	592	6.66	592

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.305

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.682	12.16	2497	12.15	2500*
20	0	0	0	0.785	11.27	788	11.21	792
30	0	0	0	0.785	11.43	777	11.37	781
40	0	0	0	0.785	11.59	767	11.53	770
50	0	0	0	0.785	11.75	756	11.69	760
60	0	0	0	0.785	11.9	747	11.85	750
70	0	0	0	0.785	12.06	737	12	741
80	0	0	0	0.785	12.21	728	12.15	732
90	0	0	0	0.785	12.36	719	12.3	723
100	0	0	0	0.785	12.51	711	12.45	714
110	0	0	0	0.785	12.63	704	12.59	706
120	0	0	0	0.785	12.73	699	12.73	699
130	0	0	0	0.785	12.82	694	12.82	694
167	0	0	0	0.785	13.16	676	13.16	676
212	0	0	0	0.785	13.55	657	13.55	657

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.682	21.72	2499	21.71	2500*
20	0	0	0	0.785	20.84	762	20.78	764
30	0	0	0	0.785	20.99	756	20.94	758
40	0	0	0	0.785	21.15	751	21.1	752
50	0	0	0	0.785	21.31	745	21.25	747
60	0	0	0	0.785	21.46	740	21.41	742
70	0	0	0	0.785	21.62	735	21.56	737
80	0	0	0	0.785	21.77	730	21.71	732
90	0	0	0	0.785	21.92	725	21.86	727
100	0	0	0	0.785	22.07	720	22.01	722
110	0	0	0	0.785	22.21	716	22.16	717
120	0	0	0	0.785	22.3	713	22.3	713
130	0	0	0	0.785	22.4	710	22.4	710
167	0	0	0	0.785	22.75	699	22.75	699
212	0	0	0	0.785	23.17	687	23.17	687

* Design Condition

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SHEET 306 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.306

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	34.16	2499	34.15	2500*
20	0	0	0	0.785	33.28	750	33.23	751
30	0	0	0	0.785	33.44	747	33.39	748
40	0	0	0	0.785	33.6	743	33.54	745
50	0	0	0	0.785	33.75	740	33.7	741
60	0	0	0	0.785	33.91	737	33.85	738
70	0	0	0	0.785	34.06	734	34	735
80	0	0	0	0.785	34.21	730	34.15	732
90	0	0	0	0.785	34.37	727	34.31	729
100	0	0	0	0.785	34.52	724	34.46	725
110	0	0	0	0.785	34.66	721	34.61	722
120	0	0	0	0.785	34.75	720	34.75	720
130	0	0	0	0.785	34.85	718	34.85	718
167	0	0	0	0.785	35.21	711	35.21	711
212	0	0	0	0.785	35.64	702	35.64	702

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.307

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11
100.00	0-6	0-7	0-9	0-11	1-1	1-2	1-4	1-6	1-7	1-8
125.00	0-9	0-11	1-2	1-5	1-8	1-11	2-1	2-4	2-6	2-8
150.00	1-1	1-4	1-8	2-0	2-5	2-9	3-0	3-4	3-7	3-10
175.00	1-6	1-10	2-4	2-9	3-3	3-8	4-1	4-6	4-11	5-2
200.00	1-11	2-5	3-0	3-7	4-3	4-10	5-5	5-11	6-5	6-10

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-4	0-6	0-7	0-8	0-9	0-10	0-10	0-11	0-11
100.00	0-6	0-8	0-10	1-0	1-2	1-3	1-5	1-7	1-8	1-8
125.00	0-10	1-0	1-3	1-6	1-9	2-0	2-3	2-5	2-7	2-8
150.00	1-2	1-6	1-10	2-3	2-7	2-11	3-2	3-6	3-8	3-10
175.00	1-7	2-0	2-6	3-0	3-6	3-11	4-4	4-9	5-0	5-2
200.00	2-1	2-8	3-4	3-11	4-7	5-2	5-8	6-2	6-6	6-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-5
125.00	1-9	1-10	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-3
150.00	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3
175.00	3-5	3-6	3-8	3-9	3-11	4-0	4-1	4-3	4-4	4-5
200.00	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-6	5-8	5-10
225.00	5-7	5-10	6-0	6-3	6-5	6-7	6-10	7-0	7-2	7-4
250.00	6-11	7-2	7-5	7-8	7-11	8-2	8-5	8-8	8-10	9-1

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-5
125.00	1-9	1-10	1-11	1-11	2-0	2-1	2-2	2-2	2-3	2-3
150.00	2-6	2-7	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-3
175.00	3-5	3-7	3-8	3-10	3-11	4-1	4-2	4-3	4-5	4-6
200.00	4-6	4-8	4-10	5-0	5-2	5-4	5-5	5-7	5-9	5-10
225.00	5-8	5-11	6-1	6-4	6-6	6-8	6-11	7-1	7-3	7-5
250.00	7-0	7-3	7-6	7-9	8-0	8-3	8-6	8-9	9-0	9-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.309

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-10	2-10	2-11	2-11	2-11	3-0	3-0	3-1	3-1	3-2
175.00	3-10	3-10	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-3
200.00	5-0	5-1	5-1	5-2	5-3	5-4	5-5	5-6	5-6	5-7
225.00	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1
250.00	7-9	7-11	8-0	8-1	8-3	8-4	8-5	8-6	8-8	8-9
275.00	9-5	9-7	9-8	9-10	9-11	10-1	10-2	10-4	10-5	10-7
300.00	11-3	11-4	11-6	11-8	11-10	12-0	12-2	12-4	12-5	12-7
325.00	13-2	13-4	13-6	13-9	13-11	14-1	14-3	14-5	14-7	14-9
350.00	15-3	15-6	15-9	15-11	16-2	16-4	16-7	16-9	16-11	17-2
375.00	17-6	17-9	18-0	18-3	18-6	18-9	19-0	19-3	19-6	19-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-1	3-2
175.00	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-2	4-3	4-4
200.00	5-0	5-1	5-2	5-3	5-3	5-4	5-5	5-6	5-7	5-7
225.00	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1
250.00	7-10	7-11	8-1	8-2	8-3	8-4	8-6	8-7	8-8	8-9
275.00	9-6	9-7	9-9	9-10	10-0	10-2	10-3	10-5	10-6	10-7
300.00	11-3	11-5	11-7	11-9	11-11	12-1	12-3	12-4	12-6	12-8
325.00	13-3	13-5	13-7	13-10	14-0	14-2	14-4	14-6	14-8	14-10
350.00	15-4	15-7	15-9	16-0	16-3	16-5	16-8	16-10	17-1	17-3
375.00	17-7	17-11	18-2	18-5	18-7	18-10	19-1	19-4	19-7	19-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.310

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-2	5-3	5-3	5-4	5-4	5-4	5-5	5-5	5-6	5-6
225.00	6-7	6-7	6-8	6-8	6-9	6-10	6-10	6-11	6-11	7-0
250.00	8-1	8-2	8-3	8-3	8-4	8-5	8-6	8-6	8-7	8-8
275.00	9-10	9-11	9-11	10-0	10-1	10-2	10-3	10-4	10-5	10-5
300.00	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-4	12-5
325.00	13-8	13-10	13-11	14-0	14-1	14-3	14-4	14-5	14-6	14-7
350.00	15-11	16-0	16-2	16-3	16-4	16-6	16-7	16-9	16-10	16-11
375.00	18-3	18-5	18-6	18-8	18-10	18-11	19-1	19-2	19-4	19-6
400.00	20-9	20-11	21-1	21-3	21-5	21-7	21-9	21-10	22-0	22-2
425.00	23-6	23-8	23-10	24-0	24-2	24-4	24-6	24-8	24-10	25-0
450.00	26-4	26-6	26-9	26-11	27-1	27-4	27-6	27-8	27-11	28-1
475.00	29-4	29-7	29-10	30-0	30-3	30-5	30-8	30-11	31-1	31-4
500.00	32-6	32-9	33-0	33-3	33-6	33-9	34-0	34-3	34-6	34-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-2	5-3	5-3	5-4	5-4	5-5	5-5	5-6	5-6	5-6
225.00	6-7	6-8	6-8	6-9	6-9	6-10	6-10	6-11	7-0	7-0
250.00	8-1	8-2	8-3	8-4	8-4	8-5	8-6	8-7	8-7	8-8
275.00	9-10	9-11	10-0	10-1	10-1	10-2	10-3	10-4	10-5	10-6
300.00	11-8	11-9	11-11	12-0	12-1	12-2	12-3	12-4	12-5	12-6
325.00	13-9	13-10	13-11	14-1	14-2	14-3	14-4	14-5	14-7	14-8
350.00	15-11	16-1	16-2	16-4	16-5	16-6	16-8	16-9	16-11	17-0
375.00	18-4	18-5	18-7	18-9	18-10	19-0	19-2	19-3	19-5	19-6
400.00	20-10	21-0	21-2	21-4	21-6	21-7	21-9	21-11	22-1	22-2
425.00	23-6	23-9	23-11	24-1	24-3	24-5	24-7	24-9	24-11	25-1
450.00	26-5	26-7	26-10	27-0	27-2	27-5	27-7	27-9	28-0	28-2
475.00	29-5	29-8	29-10	30-1	30-4	30-6	30-9	31-0	31-2	31-4
500.00	32-7	32-10	33-1	33-4	33-7	33-10	34-1	34-4	34-7	34-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.311

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-3	8-4	8-4	8-5	8-5	8-6	8-6	8-6	8-7	8-7
275.00	10-0	10-1	10-1	10-2	10-2	10-3	10-3	10-4	10-5	10-5
300.00	11-11	12-0	12-0	12-1	12-2	12-2	12-3	12-4	12-4	12-5
325.00	14-0	14-1	14-1	14-2	14-3	14-4	14-5	14-5	14-6	14-7
350.00	16-3	16-4	16-5	16-6	16-6	16-7	16-8	16-9	16-10	16-11
375.00	18-8	18-9	18-10	18-11	19-0	19-1	19-2	19-3	19-4	19-5
400.00	21-3	21-4	21-5	21-6	21-7	21-9	21-10	21-11	22-0	22-1
425.00	24-0	24-1	24-2	24-4	24-5	24-6	24-8	24-9	24-10	25-0
450.00	26-11	27-0	27-2	27-3	27-5	27-6	27-8	27-9	27-11	28-0
475.00	30-0	30-1	30-3	30-5	30-6	30-8	30-10	30-11	31-1	31-3
500.00	33-3	33-5	33-6	33-8	33-10	34-0	34-2	34-4	34-5	34-7
525.00	36-8	36-10	37-0	37-2	37-4	37-6	37-8	37-10	38-0	38-2
550.00	40-3	40-5	40-8	40-10	41-0	41-2	41-5	41-7	41-9	41-11
575.00	44-0	44-3	44-5	44-8	44-10	45-1	45-3	45-6	45-8	45-10
600.00	48-0	48-2	48-5	48-8	48-10	49-1	49-4	49-6	49-9	50-0
625.00	52-1	52-4	52-7	52-10	53-1	53-4	53-7	53-9	54-0	54-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-3	8-4	8-4	8-5	8-5	8-6	8-6	8-7	8-7	8-7
275.00	10-0	10-1	10-1	10-2	10-3	10-3	10-4	10-4	10-5	10-5
300.00	11-11	12-0	12-1	12-1	12-2	12-3	12-3	12-4	12-5	12-5
325.00	14-0	14-1	14-2	14-3	14-3	14-4	14-5	14-6	14-6	14-7
350.00	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-9	16-10	16-11
375.00	18-8	18-9	18-10	18-11	19-0	19-1	19-2	19-3	19-4	19-5
400.00	21-3	21-4	21-5	21-7	21-8	21-9	21-10	21-11	22-1	22-2
425.00	24-0	24-1	24-3	24-4	24-5	24-7	24-8	24-9	24-11	25-0
450.00	26-11	27-1	27-2	27-4	27-5	27-7	27-8	27-10	27-11	28-0
475.00	30-0	30-2	30-4	30-5	30-7	30-9	30-10	31-0	31-2	31-3
500.00	33-3	33-5	33-7	33-9	33-11	34-1	34-3	34-4	34-6	34-8
525.00	36-9	36-11	37-1	37-3	37-5	37-7	37-9	37-11	38-1	38-3
550.00	40-4	40-6	40-8	40-11	41-1	41-3	41-5	41-8	41-10	42-0
575.00	44-1	44-4	44-6	44-9	44-11	45-2	45-4	45-6	45-9	45-11
600.00	48-1	48-3	48-6	48-9	48-11	49-2	49-5	49-7	49-10	50-1
625.00	52-2	52-5	52-8	52-11	53-2	53-5	53-8	53-11	54-2	54-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.312

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	1.18	2837	1.12	3000*
20	0	0	0	0.785	0.35	2786	0.32	3085
30	0	0	0	0.785	0.44	2236	0.38	2586
40	0	0	0	0.785	0.56	1763	0.46	2116
50	0	0	0	0.785	0.7	1397	0.58	1703
60	0	0	0	0.785	0.86	1137	0.72	1372
70	0	0	0	0.785	1.02	959	0.87	1129
80	0	0	0	0.785	1.18	835	1.02	958
90	0	0	0	0.785	1.32	745	1.17	837
100	0	0	0	0.785	1.39	706	1.31	747
110	0	0	0	0.785	1.46	672	1.45	679
120	0	0	0	0.785	1.54	639	1.54	639
130	0	0	0	0.785	1.61	612	1.61	612
167	0	0	0	0.785	1.85	532	1.85	532
212	0	0	0	0.785	2.12	464	2.12	464

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	4.53	2968	4.48	3000*
20	0	0	0	0.785	3.32	1183	3.19	1232
30	0	0	0	0.785	3.54	1111	3.41	1154
40	0	0	0	0.785	3.74	1050	3.61	1088
50	0	0	0	0.785	3.94	997	3.81	1031
60	0	0	0	0.785	4.13	951	4	982
70	0	0	0	0.785	4.32	911	4.19	938
80	0	0	0	0.785	4.5	875	4.37	900
90	0	0	0	0.785	4.67	843	4.54	866
100	0	0	0	0.785	4.83	814	4.71	835
110	0	0	0	0.785	4.96	793	4.88	807
120	0	0	0	0.785	5.06	778	5.04	781
130	0	0	0	0.785	5.16	763	5.16	763
167	0	0	0	0.785	5.5	716	5.5	716
212	0	0	0	0.785	5.89	669	5.89	669

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.313

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	10.15	2988	10.1	3000*
20	0	0	0	0.785	8.96	989	8.85	1001
30	0	0	0	0.785	9.16	967	9.05	979
40	0	0	0	0.785	9.36	947	9.24	959
50	0	0	0	0.785	9.55	928	9.44	940
60	0	0	0	0.785	9.74	910	9.62	921
70	0	0	0	0.785	9.93	894	9.81	904
80	0	0	0	0.785	10.11	878	9.99	888
90	0	0	0	0.785	10.29	862	10.17	872
100	0	0	0	0.785	10.46	848	10.35	858
110	0	0	0	0.785	10.64	835	10.52	844
120	0	0	0	0.785	10.74	826	10.69	830
130	0	0	0	0.785	10.85	818	10.85	818
167	0	0	0	0.785	11.24	790	11.24	790
212	0	0	0	0.785	11.69	760	11.69	760

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	18.07	2994	18.03	3000*
20	0	0	0	0.785	16.9	936	16.79	942
30	0	0	0	0.785	17.09	925	16.98	931
40	0	0	0	0.785	17.28	915	17.17	921
50	0	0	0	0.785	17.47	906	17.36	911
60	0	0	0	0.785	17.66	896	17.55	902
70	0	0	0	0.785	17.84	887	17.73	892
80	0	0	0	0.785	18.03	878	17.91	883
90	0	0	0	0.785	18.21	869	18.09	875
100	0	0	0	0.785	18.39	861	18.27	866
110	0	0	0	0.785	18.57	853	18.45	858
120	0	0	0	0.785	18.69	847	18.63	850
130	0	0	0	0.785	18.8	842	18.8	842
167	0	0	0	0.785	19.22	825	19.22	825
212	0	0	0	0.785	19.7	805	19.7	805

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	28.34	2996	28.3	3000*
20	0	0	0	0.785	27.17	913	27.07	917
30	0	0	0	0.785	27.36	907	27.26	911
40	0	0	0	0.785	27.55	901	27.45	905
50	0	0	0	0.785	27.74	895	27.63	899
60	0	0	0	0.785	27.93	889	27.82	893
70	0	0	0	0.785	28.11	884	28	887
80	0	0	0	0.785	28.3	878	28.18	881
90	0	0	0	0.785	28.48	873	28.37	876
100	0	0	0	0.785	28.66	867	28.55	871
110	0	0	0	0.785	28.84	862	28.73	865
120	0	0	0	0.785	28.98	858	28.9	860
130	0	0	0	0.785	29.09	855	29.08	855
167	0	0	0	0.785	29.52	843	29.52	843
212	0	0	0	0.785	30.02	829	30.02	829

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.315

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10
100.00	0-4	0-5	0-6	0-7	0-9	0-10	1-0	1-2	1-4	1-5
125.00	0-6	0-7	0-9	0-11	1-1	1-4	1-7	1-10	2-1	2-3
150.00	0-9	0-10	1-1	1-4	1-7	1-11	2-4	2-8	3-0	3-3
175.00	1-0	1-2	1-5	1-9	2-2	2-8	3-2	3-7	4-0	4-5
200.00	1-3	1-6	1-10	2-4	2-10	3-6	4-1	4-8	5-3	5-10

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9	0-10
100.00	0-4	0-5	0-7	0-8	0-10	1-0	1-2	1-4	1-5	1-6
125.00	0-7	0-8	0-10	1-1	1-4	1-7	1-10	2-1	2-2	2-3
150.00	0-10	1-0	1-3	1-7	1-11	2-4	2-8	3-0	3-2	3-3
175.00	1-1	1-4	1-8	2-2	2-8	3-2	3-7	4-0	4-3	4-6
200.00	1-5	1-9	2-3	2-10	3-5	4-1	4-8	5-3	5-7	5-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.316

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11
150.00	1-10	1-11	2-0	2-2	2-3	2-4	2-5	2-7	2-8	2-9
175.00	2-5	2-7	2-9	2-11	3-1	3-2	3-4	3-6	3-7	3-9
200.00	3-2	3-5	3-7	3-10	4-0	4-2	4-4	4-7	4-9	4-11
225.00	4-0	4-4	4-7	4-10	5-1	5-4	5-6	5-9	6-0	6-2
250.00	5-0	5-4	5-8	5-11	6-3	6-7	6-10	7-1	7-4	7-7

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-11	1-11
150.00	1-10	2-0	2-1	2-3	2-4	2-5	2-6	2-7	2-9	2-9
175.00	2-7	2-8	2-10	3-0	3-2	3-4	3-5	3-7	3-8	3-10
200.00	3-4	3-6	3-9	3-11	4-2	4-4	4-6	4-8	4-10	5-0
225.00	4-2	4-6	4-9	5-0	5-3	5-6	5-8	5-11	6-1	6-3
250.00	5-2	5-6	5-10	6-2	6-6	6-9	7-0	7-4	7-7	7-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.317

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-7	2-8
175.00	3-0	3-1	3-2	3-2	3-3	3-4	3-5	3-5	3-6	3-7
200.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
225.00	5-0	5-1	5-2	5-4	5-5	5-6	5-7	5-9	5-10	5-11
250.00	6-2	6-3	6-5	6-7	6-8	6-10	6-11	7-1	7-2	7-4
275.00	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-7	8-8	8-10
300.00	8-10	9-1	9-3	9-5	9-7	9-10	10-0	10-2	10-4	10-6
325.00	10-5	10-7	10-10	11-1	11-4	11-6	11-9	11-11	12-2	12-4
350.00	12-1	12-4	12-7	12-10	13-1	13-4	13-7	13-10	14-1	14-4
375.00	13-10	14-2	14-5	14-9	15-1	15-4	15-7	15-11	16-2	16-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-3	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-8
175.00	3-1	3-1	3-2	3-3	3-4	3-4	3-5	3-6	3-7	3-7
200.00	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9
225.00	5-0	5-2	5-3	5-4	5-6	5-7	5-8	5-9	5-11	6-0
250.00	6-3	6-4	6-6	6-8	6-9	6-11	7-0	7-2	7-3	7-5
275.00	7-6	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-9	8-11
300.00	9-0	9-2	9-4	9-7	9-9	9-11	10-1	10-3	10-6	10-8
325.00	10-6	10-9	11-0	11-3	11-5	11-8	11-10	12-1	12-3	12-6
350.00	12-2	12-6	12-9	13-0	13-3	13-6	13-9	14-0	14-3	14-6
375.00	14-0	14-4	14-8	14-11	15-3	15-6	15-10	16-1	16-4	16-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.318

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-2	4-3	4-3	4-4	4-5	4-5	4-6	4-6	4-7	4-7
225.00	5-4	5-4	5-5	5-6	5-7	5-7	5-8	5-9	5-9	5-10
250.00	6-7	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-2
275.00	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8
300.00	9-5	9-7	9-8	9-9	9-10	10-0	10-1	10-2	10-3	10-4
325.00	11-1	11-2	11-4	11-5	11-7	11-8	11-10	11-11	12-1	12-2
350.00	12-10	13-0	13-2	13-3	13-5	13-7	13-8	13-10	14-0	14-1
375.00	14-9	14-11	15-1	15-3	15-5	15-7	15-9	15-11	16-1	16-3
400.00	16-9	17-0	17-2	17-4	17-7	17-9	17-11	18-1	18-3	18-5
425.00	19-0	19-2	19-5	19-7	19-10	20-0	20-3	20-5	20-8	20-10
450.00	21-3	21-6	21-9	22-0	22-3	22-5	22-8	22-11	23-2	23-4
475.00	23-8	24-0	24-3	24-6	24-9	25-0	25-3	25-7	25-10	26-1
500.00	26-3	26-7	26-10	27-2	27-5	27-9	28-0	28-4	28-7	28-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-3	4-3	4-4	4-4	4-5	4-5	4-6	4-7	4-7	4-8
225.00	5-4	5-5	5-6	5-6	5-7	5-8	5-8	5-9	5-10	5-10
250.00	6-7	6-8	6-9	6-10	6-11	7-0	7-0	7-1	7-2	7-3
275.00	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9
300.00	9-6	9-7	9-9	9-10	9-11	10-0	10-2	10-3	10-4	10-5
325.00	11-2	11-3	11-5	11-6	11-8	11-9	11-11	12-0	12-2	12-3
350.00	12-11	13-1	13-3	13-4	13-6	13-8	13-10	13-11	14-1	14-2
375.00	14-10	15-0	15-2	15-4	15-6	15-8	15-10	16-0	16-2	16-4
400.00	16-11	17-1	17-3	17-6	17-8	17-10	18-0	18-3	18-5	18-7
425.00	19-1	19-4	19-6	19-9	19-11	20-2	20-4	20-7	20-9	21-0
450.00	21-5	21-8	21-11	22-2	22-4	22-7	22-10	23-1	23-3	23-6
475.00	23-10	24-1	24-5	24-8	24-11	25-2	25-5	25-8	26-0	26-3
500.00	26-5	26-9	27-0	27-4	27-8	27-11	28-3	28-6	28-9	29-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.319

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-9	6-10	6-10	6-11	6-11	7-0	7-0	7-1	7-1	7-2
275.00	8-2	8-3	8-3	8-4	8-5	8-5	8-6	8-7	8-7	8-8
300.00	9-9	9-9	9-10	9-11	10-0	10-1	10-1	10-2	10-3	10-4
325.00	11-5	11-6	11-7	11-8	11-9	11-10	11-11	11-11	12-0	12-1
350.00	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-11	14-1
375.00	15-2	15-4	15-5	15-6	15-7	15-9	15-10	15-11	16-0	16-2
400.00	17-4	17-5	17-6	17-8	17-9	17-11	18-0	18-2	18-3	18-4
425.00	19-6	19-8	19-10	19-11	20-1	20-2	20-4	20-6	20-7	20-9
450.00	21-11	22-1	22-3	22-4	22-6	22-8	22-10	22-11	23-1	23-3
475.00	24-5	24-7	24-9	24-11	25-1	25-3	25-5	25-7	25-9	25-11
500.00	27-1	27-3	27-5	27-8	27-10	28-0	28-2	28-4	28-7	28-9
525.00	29-10	30-1	30-3	30-6	30-8	30-11	31-1	31-3	31-6	31-8
550.00	32-9	33-0	33-3	33-6	33-8	33-11	34-2	34-4	34-7	34-9
575.00	35-10	36-1	36-4	36-7	36-10	37-1	37-4	37-7	37-10	38-1
600.00	39-1	39-4	39-7	39-10	40-2	40-5	40-8	40-11	41-2	41-5
625.00	42-5	42-8	43-0	43-3	43-7	43-10	44-2	44-5	44-9	45-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-9	6-10	6-10	6-11	7-0	7-0	7-1	7-1	7-2	7-2
275.00	8-2	8-3	8-4	8-4	8-5	8-6	8-6	8-7	8-8	8-8
300.00	9-9	9-10	9-11	10-0	10-0	10-1	10-2	10-3	10-3	10-4
325.00	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2
350.00	13-3	13-5	13-6	13-7	13-8	13-9	13-10	13-11	14-0	14-1
375.00	15-3	15-4	15-6	15-7	15-8	15-9	15-11	16-0	16-1	16-2
400.00	17-4	17-6	17-7	17-9	17-10	18-0	18-1	18-2	18-4	18-5
425.00	19-7	19-9	19-11	20-0	20-2	20-3	20-5	20-7	20-8	20-10
450.00	22-0	22-2	22-4	22-5	22-7	22-9	22-11	23-1	23-2	23-4
475.00	24-6	24-8	24-10	25-0	25-2	25-4	25-6	25-8	25-10	26-0
500.00	27-2	27-4	27-7	27-9	27-11	28-1	28-4	28-6	28-8	28-10
525.00	30-0	30-2	30-5	30-7	30-10	31-0	31-3	31-5	31-7	31-10
550.00	32-11	33-2	33-4	33-7	33-10	34-1	34-3	34-6	34-9	34-11
575.00	36-0	36-3	36-6	36-9	37-0	37-3	37-6	37-9	37-11	38-2
600.00	39-2	39-6	39-9	40-0	40-3	40-7	40-10	41-1	41-4	41-7
625.00	42-7	42-10	43-2	43-5	43-9	44-0	44-4	44-7	44-11	45-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.320

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.682	3.37	1000	3.37	1000*
0	0	0	0	0.785	3.14	314	3.13	315
30	0	0	0	0.785	3.36	293	3.35	294
40	0	0	0	0.785	3.42	288	3.42	288
50	0	0	0	0.785	3.48	283	3.48	284
60	0	0	0	0.785	3.54	278	3.54	279
70	0	0	0	0.785	3.6	274	3.59	275
80	0	0	0	0.785	3.64	271	3.64	271
90	0	0	0	0.785	3.68	268	3.68	268
100	0	0	0	0.785	3.71	266	3.71	266
110	0	0	0	0.785	3.75	263	3.75	263
120	0	0	0	0.785	3.79	261	3.79	261
130	0	0	0	0.785	3.82	258	3.82	258
167	0	0	0	0.785	3.95	250	3.95	250
212	0	0	0	0.785	4.1	241	4.1	241

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.682	13.66	1000	13.66	1000*
0	0	0	0	0.785	13.44	297	13.43	298
30	0	0	0	0.785	13.65	293	13.64	293
40	0	0	0	0.785	13.72	292	13.71	292
50	0	0	0	0.785	13.78	290	13.77	290
60	0	0	0	0.785	13.84	289	13.83	289
70	0	0	0	0.785	13.9	288	13.89	288
80	0	0	0	0.785	13.95	287	13.95	287
90	0	0	0	0.785	13.99	286	13.99	286
100	0	0	0	0.785	14.03	285	14.03	285
110	0	0	0	0.785	14.07	285	14.07	285
120	0	0	0	0.785	14.1	284	14.1	284
130	0	0	0	0.785	14.14	283	14.14	283
167	0	0	0	0.785	14.29	280	14.29	280
212	0	0	0	0.785	14.46	277	14.46	277

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	31.51	1000	31.51	1000*
0	0	0	0	0.785	31.29	295	31.28	295
30	0	0	0	0.785	31.5	293	31.49	293
40	0	0	0	0.785	31.57	292	31.56	292
50	0	0	0	0.785	31.63	292	31.62	292
60	0	0	0	0.785	31.69	291	31.68	291
70	0	0	0	0.785	31.75	291	31.74	291
80	0	0	0	0.785	31.8	290	31.8	290
90	0	0	0	0.785	31.84	290	31.84	290
100	0	0	0	0.785	31.88	290	31.88	290
110	0	0	0	0.785	31.92	289	31.92	289
120	0	0	0	0.785	31.96	289	31.96	289
130	0	0	0	0.785	32	289	32	289
167	0	0	0	0.785	32.14	287	32.14	287
212	0	0	0	0.785	32.32	286	32.32	286

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	58.22	1000	58.22	1000*
0	0	0	0	0.785	58	294	57.99	294
30	0	0	0	0.785	58.21	293	58.2	293
40	0	0	0	0.785	58.27	292	58.27	292
50	0	0	0	0.785	58.33	292	58.33	292
60	0	0	0	0.785	58.4	292	58.39	292
70	0	0	0	0.785	58.46	292	58.45	292
80	0	0	0	0.785	58.51	291	58.51	291
90	0	0	0	0.785	58.55	291	58.55	291
100	0	0	0	0.785	58.58	291	58.58	291
110	0	0	0	0.785	58.62	291	58.62	291
120	0	0	0	0.785	58.66	291	58.66	291
130	0	0	0	0.785	58.7	291	58.7	291
167	0	0	0	0.785	58.85	290	58.85	290
212	0	0	0	0.785	59.03	289	59.03	289

* Design Condition

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SHEET 322 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.322

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	96.41	1000	96.41	1000*
0	0	0	0	0.785	96.19	293	96.19	293
30	0	0	0	0.785	96.41	293	96.4	293
40	0	0	0	0.785	96.47	293	96.46	293
50	0	0	0	0.785	96.53	292	96.52	292
60	0	0	0	0.785	96.59	292	96.58	292
70	0	0	0	0.785	96.65	292	96.64	292
80	0	0	0	0.785	96.7	292	96.7	292
90	0	0	0	0.785	96.74	292	96.74	292
100	0	0	0	0.785	96.78	292	96.78	292
110	0	0	0	0.785	96.82	292	96.82	292
120	0	0	0	0.785	96.86	292	96.86	292
130	0	0	0	0.785	96.9	292	96.9	292
167	0	0	0	0.785	97.04	291	97.04	291
212	0	0	0	0.785	97.22	291	97.22	291

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.323

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-10	1-11	1-11	1-11	2-0	2-0	2-1	2-1	2-1	2-1
100.00	3-3	3-4	3-5	3-6	3-6	3-7	3-8	3-8	3-9	3-9
125.00	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-10
150.00	7-5	7-7	7-8	7-10	8-0	8-1	8-3	8-4	8-5	8-5
175.00	10-1	10-4	10-6	10-8	10-10	11-1	11-2	11-4	11-5	11-6
200.00	13-2	13-6	13-9	14-0	14-3	14-5	14-8	14-10	14-11	15-1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-10	1-11	1-11	1-11	2-0	2-0	2-1	2-1	2-1	2-1
100.00	3-3	3-4	3-5	3-6	3-7	3-7	3-8	3-8	3-9	3-9
125.00	5-2	5-3	5-4	5-5	5-6	5-8	5-8	5-9	5-10	5-10
150.00	7-5	7-7	7-9	7-10	8-0	8-1	8-3	8-4	8-5	8-5
175.00	10-1	10-4	10-6	10-8	10-11	11-1	11-2	11-4	11-5	11-6
200.00	13-3	13-6	13-9	14-0	14-3	14-6	14-8	14-10	14-11	15-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.324

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-5	3-5	3-5	3-5	3-5	3-5	3-6	3-6	3-6	3-6
125.00	5-3	5-4	5-4	5-4	5-5	5-5	5-5	5-5	5-5	5-6
150.00	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-10	7-10	7-11
175.00	10-5	10-5	10-6	10-6	10-7	10-7	10-8	10-8	10-9	10-9
200.00	13-7	13-8	13-9	13-9	13-10	13-11	13-11	14-0	14-0	14-1
225.00	17-2	17-4	17-5	17-6	17-6	17-7	17-8	17-9	17-9	17-10
250.00	21-3	21-5	21-6	21-7	21-8	21-9	21-10	21-11	22-0	22-1

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-5	3-5	3-5	3-5	3-5	3-6	3-6	3-6	3-6	3-6
125.00	5-3	5-4	5-4	5-4	5-5	5-5	5-5	5-5	5-5	5-6
150.00	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-10	7-10	7-11
175.00	10-5	10-5	10-6	10-6	10-7	10-8	10-8	10-8	10-9	10-9
200.00	13-7	13-8	13-9	13-9	13-10	13-11	13-11	14-0	14-0	14-1
225.00	17-3	17-4	17-5	17-6	17-7	17-7	17-8	17-9	17-9	17-10
250.00	21-4	21-5	21-6	21-7	21-8	21-10	21-10	21-11	22-0	22-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.325

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-9	7-9	7-10	7-10	7-10	7-10	7-10	7-10	7-11	7-11
175.00	10-7	10-7	10-8	10-8	10-8	10-8	10-9	10-9	10-9	10-9
200.00	13-10	13-11	13-11	13-11	14-0	14-0	14-0	14-0	14-1	14-1
225.00	17-7	17-7	17-8	17-8	17-9	17-9	17-9	17-10	17-10	17-10
250.00	21-9	21-9	21-10	21-10	21-11	21-11	22-0	22-0	22-0	22-1
275.00	26-4	26-5	26-6	26-6	26-7	26-7	26-8	26-8	26-9	26-9
300.00	31-5	31-6	31-7	31-7	31-8	31-9	31-10	31-10	31-11	31-11
325.00	37-0	37-1	37-2	37-2	37-3	37-4	37-5	37-6	37-6	37-7
350.00	43-0	43-1	43-2	43-3	43-4	43-5	43-6	43-7	43-7	43-8
375.00	49-6	49-7	49-9	49-10	49-11	50-0	50-1	50-2	50-3	50-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-9	7-10	7-10	7-10	7-10	7-10	7-10	7-10	7-11	7-11
175.00	10-7	10-7	10-8	10-8	10-8	10-8	10-9	10-9	10-9	10-9
200.00	13-10	13-11	13-11	13-11	14-0	14-0	14-0	14-0	14-1	14-1
225.00	17-7	17-7	17-8	17-8	17-9	17-9	17-9	17-10	17-10	17-10
250.00	21-9	21-9	21-10	21-10	21-11	21-11	22-0	22-0	22-0	22-1
275.00	26-4	26-5	26-6	26-6	26-7	26-7	26-8	26-8	26-9	26-9
300.00	31-5	31-6	31-7	31-8	31-8	31-9	31-10	31-10	31-11	31-11
325.00	37-0	37-1	37-2	37-3	37-3	37-4	37-5	37-6	37-6	37-7
350.00	43-0	43-1	43-2	43-3	43-4	43-5	43-6	43-7	43-7	43-8
375.00	49-6	49-7	49-9	49-10	49-11	50-0	50-1	50-2	50-3	50-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.326

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	14-3	14-3	14-3	14-4	14-4	14-4	14-4	14-4	14-4	14-4
225.00	18-1	18-1	18-1	18-1	18-2	18-2	18-2	18-2	18-2	18-3
250.00	22-4	22-4	22-5	22-5	22-5	22-6	22-6	22-6	22-6	22-6
275.00	27-1	27-1	27-2	27-2	27-3	27-3	27-3	27-3	27-4	27-4
300.00	32-4	32-4	32-5	32-5	32-6	32-6	32-6	32-7	32-7	32-7
325.00	38-0	38-1	38-1	38-2	38-2	38-3	38-3	38-4	38-4	38-4
350.00	44-3	44-3	44-4	44-5	44-5	44-6	44-6	44-6	44-7	44-7
375.00	50-11	51-0	51-1	51-1	51-2	51-2	51-3	51-3	51-4	51-4
400.00	58-2	58-2	58-3	58-4	58-5	58-5	58-6	58-7	58-7	58-7
425.00	65-10	65-11	66-0	66-1	66-2	66-3	66-3	66-4	66-4	66-5
450.00	74-1	74-2	74-3	74-4	74-5	74-6	74-7	74-8	74-8	74-9
475.00	82-10	83-0	83-1	83-2	83-3	83-4	83-5	83-6	83-6	83-7
500.00	92-2	92-4	92-5	92-6	92-7	92-9	92-10	92-10	92-11	93-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	14-3	14-3	14-3	14-4	14-4	14-4	14-4	14-4	14-4	14-4
225.00	18-1	18-1	18-1	18-1	18-2	18-2	18-2	18-2	18-2	18-3
250.00	22-4	22-4	22-5	22-5	22-5	22-6	22-6	22-6	22-6	22-6
275.00	27-1	27-2	27-2	27-2	27-3	27-3	27-3	27-3	27-4	27-4
300.00	32-4	32-4	32-5	32-5	32-6	32-6	32-6	32-7	32-7	32-7
325.00	38-0	38-1	38-1	38-2	38-2	38-3	38-3	38-4	38-4	38-4
350.00	44-3	44-3	44-4	44-5	44-5	44-6	44-6	44-6	44-7	44-7
375.00	50-11	51-0	51-1	51-1	51-2	51-3	51-3	51-3	51-4	51-4
400.00	58-2	58-3	58-3	58-4	58-5	58-5	58-6	58-7	58-7	58-7
425.00	65-10	65-11	66-0	66-1	66-2	66-3	66-3	66-4	66-4	66-5
450.00	74-1	74-2	74-3	74-4	74-5	74-6	74-7	74-8	74-8	74-9
475.00	82-11	83-0	83-1	83-2	83-3	83-4	83-5	83-6	83-6	83-7
500.00	92-2	92-4	92-5	92-6	92-8	92-9	92-10	92-10	92-11	93-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.327

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	23-3	23-4	23-4	23-4	23-4	23-4	23-4	23-5	23-5	23-5
275.00	28-3	28-3	28-3	28-4	28-4	28-4	28-4	28-4	28-4	28-4
300.00	33-8	33-9	33-9	33-9	33-9	33-10	33-10	33-10	33-10	33-10
325.00	39-8	39-8	39-9	39-9	39-9	39-9	39-10	39-10	39-10	39-10
350.00	46-2	46-2	46-2	46-3	46-3	46-3	46-4	46-4	46-4	46-4
375.00	53-2	53-2	53-2	53-3	53-3	53-4	53-4	53-4	53-4	53-5
400.00	60-8	60-8	60-9	60-9	60-10	60-10	60-11	60-11	60-11	61-0
425.00	68-9	68-9	68-10	68-10	68-11	68-11	69-0	69-0	69-1	69-1
450.00	77-4	77-5	77-6	77-6	77-7	77-7	77-8	77-8	77-9	77-9
475.00	86-7	86-7	86-8	86-9	86-9	86-10	86-11	86-11	86-11	87-0
500.00	96-4	96-5	96-6	96-6	96-7	96-8	96-8	96-9	96-9	96-10
525.00	106-8	106-9	106-10	106-11	107-0	107-1	107-1	107-2	107-2	107-3
550.00	117-8	117-9	117-10	117-11	118-0	118-1	118-1	118-2	118-3	118-3
575.00	129-3	129-4	129-5	129-6	129-7	129-8	129-9	129-10	129-10	129-11
600.00	141-6	141-7	141-8	141-9	141-10	141-11	142-0	142-1	142-2	142-3
625.00	154-4	154-6	154-7	154-8	154-9	154-10	155-0	155-0	155-1	155-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	23-3	23-4	23-4	23-4	23-4	23-4	23-4	23-5	23-5	23-5
275.00	28-3	28-3	28-3	28-4	28-4	28-4	28-4	28-4	28-4	28-4
300.00	33-8	33-9	33-9	33-9	33-9	33-10	33-10	33-10	33-10	33-10
325.00	39-8	39-8	39-9	39-9	39-9	39-9	39-10	39-10	39-10	39-10
350.00	46-2	46-2	46-2	46-3	46-3	46-3	46-4	46-4	46-4	46-4
375.00	53-2	53-2	53-2	53-3	53-3	53-4	53-4	53-4	53-4	53-5
400.00	60-8	60-9	60-9	60-9	60-10	60-10	60-11	60-11	60-11	61-0
425.00	68-9	68-9	68-10	68-11	68-11	69-0	69-0	69-0	69-1	69-1
450.00	77-4	77-5	77-6	77-6	77-7	77-7	77-8	77-8	77-9	77-9
475.00	86-7	86-8	86-8	86-9	86-9	86-10	86-11	86-11	86-11	87-0
500.00	96-4	96-5	96-6	96-6	96-7	96-8	96-8	96-9	96-9	96-10
525.00	106-8	106-9	106-10	106-11	107-0	107-1	107-1	107-2	107-2	107-3
550.00	117-8	117-9	117-10	117-11	118-0	118-1	118-1	118-2	118-3	118-3
575.00	129-3	129-4	129-5	129-6	129-7	129-8	129-9	129-10	129-10	129-11
600.00	141-6	141-7	141-8	141-9	141-10	142-0	142-0	142-1	142-2	142-3
625.00	154-4	154-6	154-7	154-8	154-9	154-11	155-0	155-0	155-1	155-2

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SHEET 328 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.328

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	2.24	1500	2.24	1500*
0	0	0	0	0.785	1.85	530	1.83	536
30	0	0	0	0.785	2.18	450	2.17	453
40	0	0	0	0.785	2.27	432	2.26	435
50	0	0	0	0.785	2.36	416	2.35	419
60	0	0	0	0.785	2.45	402	2.43	405
70	0	0	0	0.785	2.53	389	2.51	392
80	0	0	0	0.785	2.61	377	2.59	380
90	0	0	0	0.785	2.66	370	2.66	370
100	0	0	0	0.785	2.71	364	2.71	364
110	0	0	0	0.785	2.75	358	2.75	358
120	0	0	0	0.785	2.8	352	2.8	352
130	0	0	0	0.785	2.84	346	2.84	346
167	0	0	0	0.785	3.01	327	3.01	327
212	0	0	0	0.785	3.2	308	3.2	308

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	9.01	1500	9.01	1500*
0	0	0	0	0.785	8.64	458	8.62	459
30	0	0	0	0.785	8.96	442	8.94	442
40	0	0	0	0.785	9.05	437	9.03	438
50	0	0	0	0.785	9.14	433	9.12	434
60	0	0	0	0.785	9.23	429	9.21	430
70	0	0	0	0.785	9.32	425	9.3	426
80	0	0	0	0.785	9.41	421	9.39	422
90	0	0	0	0.785	9.48	418	9.48	418
100	0	0	0	0.785	9.53	415	9.53	415
110	0	0	0	0.785	9.59	413	9.59	413
120	0	0	0	0.785	9.65	411	9.65	411
130	0	0	0	0.785	9.7	408	9.7	408
167	0	0	0	0.785	9.9	400	9.9	400
212	0	0	0	0.785	10.14	391	10.14	391

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.329

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	20.49	1500	20.49	1500*
0	0	0	0	0.785	20.12	447	20.1	447
30	0	0	0	0.785	20.44	440	20.42	441
40	0	0	0	0.785	20.53	438	20.51	439
50	0	0	0	0.785	20.62	436	20.6	437
60	0	0	0	0.785	20.71	435	20.69	435
70	0	0	0	0.785	20.8	433	20.78	433
80	0	0	0	0.785	20.89	431	20.87	431
90	0	0	0	0.785	20.97	429	20.96	430
100	0	0	0	0.785	21.03	428	21.03	428
110	0	0	0	0.785	21.09	427	21.09	427
120	0	0	0	0.785	21.14	426	21.14	426
130	0	0	0	0.785	21.2	425	21.2	425
167	0	0	0	0.785	21.41	421	21.41	421
212	0	0	0	0.785	21.67	416	21.67	416

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	36.99	1500	36.99	1500*
0	0	0	0	0.785	36.62	443	36.6	443
30	0	0	0	0.785	36.93	440	36.92	440
40	0	0	0	0.785	37.02	439	37.01	439
50	0	0	0	0.785	37.12	438	37.1	438
60	0	0	0	0.785	37.21	437	37.19	437
70	0	0	0	0.785	37.3	436	37.28	436
80	0	0	0	0.785	37.39	435	37.37	435
90	0	0	0	0.785	37.47	434	37.46	434
100	0	0	0	0.785	37.53	433	37.53	433
110	0	0	0	0.785	37.59	432	37.59	432
120	0	0	0	0.785	37.65	432	37.65	432
130	0	0	0	0.785	37.7	431	37.7	431
167	0	0	0	0.785	37.92	429	37.92	429
212	0	0	0	0.785	38.18	426	38.18	426

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.330

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	59	1500	59	1500*
0	0	0	0	0.785	58.63	442	58.61	442
30	0	0	0	0.785	58.95	439	58.93	440
40	0	0	0	0.785	59.04	439	59.02	439
50	0	0	0	0.785	59.13	438	59.11	438
60	0	0	0	0.785	59.22	438	59.21	438
70	0	0	0	0.785	59.31	437	59.3	437
80	0	0	0	0.785	59.41	436	59.39	436
90	0	0	0	0.785	59.48	436	59.48	436
100	0	0	0	0.785	59.54	435	59.54	435
110	0	0	0	0.785	59.6	435	59.6	435
120	0	0	0	0.785	59.66	435	59.66	435
130	0	0	0	0.785	59.72	434	59.72	434
167	0	0	0	0.785	59.94	433	59.94	433
212	0	0	0	0.785	60.21	431	60.21	431

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.331

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7
100.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9
125.00	3-3	3-5	3-6	3-8	3-10	3-11	4-1	4-2	4-3	4-4
150.00	4-8	4-11	5-1	5-3	5-6	5-8	5-10	6-0	6-1	6-2
175.00	6-4	6-8	6-11	7-2	7-5	7-8	7-11	8-2	8-4	8-5
200.00	8-3	8-8	9-1	9-5	9-9	10-1	10-5	10-8	10-10	11-1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-3	1-3	1-4	1-5	1-5	1-6	1-6	1-6	1-7
100.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9
125.00	3-3	3-5	3-7	3-8	3-10	3-11	4-1	4-2	4-3	4-4
150.00	4-8	4-11	5-1	5-4	5-6	5-8	5-10	6-0	6-1	6-2
175.00	6-5	6-8	7-0	7-3	7-6	7-9	8-0	8-2	8-4	8-5
200.00	8-4	8-9	9-1	9-6	9-10	10-2	10-5	10-8	10-10	11-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.332

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-2	2-3	2-3	2-3	2-4	2-4	2-4	2-4	2-5	2-5
125.00	3-5	3-6	3-6	3-7	3-7	3-8	3-8	3-8	3-9	3-9
150.00	5-0	5-0	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-5
175.00	6-9	6-10	6-11	7-0	7-1	7-1	7-2	7-3	7-4	7-4
200.00	8-10	8-11	9-0	9-1	9-3	9-4	9-5	9-6	9-6	9-7
225.00	11-2	11-4	11-5	11-7	11-8	11-9	11-11	12-0	12-1	12-2
250.00	13-10	14-0	14-2	14-3	14-5	14-7	14-8	14-10	14-11	15-0

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-3	2-3	2-3	2-3	2-4	2-4	2-4	2-4	2-5	2-5
125.00	3-5	3-6	3-6	3-7	3-7	3-8	3-8	3-8	3-9	3-9
150.00	5-0	5-0	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-5
175.00	6-9	6-10	6-11	7-0	7-1	7-2	7-2	7-3	7-4	7-4
200.00	8-10	8-11	9-1	9-2	9-3	9-4	9-5	9-6	9-6	9-7
225.00	11-3	11-4	11-6	11-7	11-8	11-10	11-11	12-0	12-1	12-2
250.00	13-10	14-0	14-2	14-4	14-5	14-7	14-9	14-10	14-11	15-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.333

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-1	5-1	5-1	5-2	5-2	5-2	5-2	5-3	5-3	5-3
175.00	6-11	6-11	6-11	7-0	7-0	7-1	7-1	7-1	7-1	7-2
200.00	9-0	9-1	9-1	9-2	9-2	9-2	9-3	9-3	9-4	9-4
225.00	11-5	11-5	11-6	11-7	11-7	11-8	11-9	11-9	11-10	11-10
250.00	14-1	14-2	14-3	14-3	14-4	14-5	14-6	14-6	14-7	14-7
275.00	17-1	17-2	17-3	17-4	17-4	17-5	17-6	17-7	17-8	17-8
300.00	20-4	20-5	20-6	20-7	20-8	20-9	20-10	21-0	21-0	21-1
325.00	23-10	24-0	24-1	24-2	24-4	24-5	24-6	24-8	24-8	24-9
350.00	27-9	27-10	28-0	28-1	28-3	28-4	28-6	28-7	28-8	28-9
375.00	31-10	32-0	32-2	32-4	32-5	32-7	32-9	32-10	33-0	33-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-1	5-1	5-1	5-2	5-2	5-2	5-2	5-3	5-3	5-3
175.00	6-11	6-11	6-11	7-0	7-0	7-1	7-1	7-1	7-1	7-2
200.00	9-0	9-1	9-1	9-2	9-2	9-3	9-3	9-3	9-4	9-4
225.00	11-5	11-6	11-6	11-7	11-7	11-8	11-9	11-9	11-10	11-10
250.00	14-1	14-2	14-3	14-4	14-4	14-5	14-6	14-6	14-7	14-7
275.00	17-1	17-2	17-3	17-4	17-5	17-6	17-6	17-7	17-8	17-8
300.00	20-4	20-5	20-6	20-7	20-9	20-10	20-11	21-0	21-0	21-1
325.00	23-11	24-0	24-1	24-3	24-4	24-5	24-7	24-8	24-8	24-9
350.00	27-9	27-11	28-0	28-2	28-3	28-5	28-6	28-7	28-8	28-9
375.00	31-11	32-0	32-2	32-4	32-6	32-7	32-9	32-11	33-0	33-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.334

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-2	9-2	9-2	9-2	9-3	9-3	9-3	9-3	9-4	9-4
225.00	11-7	11-7	11-7	11-8	11-8	11-8	11-9	11-9	11-9	11-10
250.00	14-3	14-4	14-4	14-5	14-5	14-6	14-6	14-6	14-7	14-7
275.00	17-4	17-4	17-5	17-5	17-6	17-6	17-7	17-7	17-8	17-8
300.00	20-7	20-8	20-9	20-9	20-10	20-10	20-11	21-0	21-0	21-0
325.00	24-3	24-3	24-4	24-5	24-5	24-6	24-7	24-8	24-8	24-9
350.00	28-1	28-2	28-3	28-4	28-5	28-6	28-6	28-7	28-8	28-8
375.00	32-4	32-5	32-6	32-7	32-8	32-9	32-10	32-11	32-11	33-0
400.00	36-10	36-11	37-0	37-1	37-2	37-3	37-4	37-6	37-6	37-7
425.00	41-7	41-9	41-10	41-11	42-1	42-2	42-3	42-4	42-5	42-6
450.00	46-9	46-10	47-0	47-1	47-3	47-4	47-5	47-7	47-8	47-9
475.00	52-2	52-4	52-5	52-7	52-8	52-10	52-11	53-1	53-2	53-3
500.00	57-10	58-1	58-2	58-4	58-6	58-7	58-9	58-11	59-0	59-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-2	9-2	9-2	9-2	9-3	9-3	9-3	9-3	9-4	9-4
225.00	11-7	11-7	11-8	11-8	11-8	11-9	11-9	11-9	11-9	11-10
250.00	14-3	14-4	14-4	14-5	14-5	14-6	14-6	14-6	14-7	14-7
275.00	17-4	17-4	17-5	17-5	17-6	17-6	17-7	17-7	17-8	17-8
300.00	20-7	20-8	20-9	20-9	20-10	20-11	20-11	21-0	21-0	21-0
325.00	24-3	24-3	24-4	24-5	24-6	24-6	24-7	24-8	24-8	24-9
350.00	28-2	28-2	28-3	28-4	28-5	28-6	28-7	28-7	28-8	28-8
375.00	32-4	32-5	32-6	32-7	32-8	32-9	32-10	32-11	32-11	33-0
400.00	36-10	36-11	37-0	37-1	37-2	37-4	37-5	37-6	37-6	37-7
425.00	41-8	41-9	41-10	42-0	42-1	42-2	42-3	42-4	42-5	42-6
450.00	46-9	46-11	47-0	47-1	47-3	47-4	47-6	47-7	47-8	47-9
475.00	52-2	52-4	52-5	52-7	52-9	52-10	53-0	53-1	53-2	53-3
500.00	57-11	58-1	58-3	58-4	58-6	58-8	58-10	58-11	59-0	59-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.335

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	14-6	14-6	14-7	14-7	14-7	14-7	14-8	14-8	14-8	14-8
275.00	17-7	17-7	17-8	17-8	17-8	17-9	17-9	17-9	17-9	17-10
300.00	20-11	21-0	21-0	21-0	21-1	21-1	21-2	21-2	21-2	21-3
325.00	24-7	24-8	24-8	24-9	24-9	24-10	24-10	24-10	24-11	24-11
350.00	28-7	28-7	28-8	28-8	28-9	28-9	28-10	28-11	28-11	28-11
375.00	32-10	32-11	32-11	33-0	33-1	33-1	33-2	33-2	33-3	33-3
400.00	37-5	37-6	37-6	37-7	37-8	37-8	37-9	37-10	37-10	37-11
425.00	42-4	42-4	42-5	42-6	42-7	42-8	42-8	42-9	42-10	42-10
450.00	47-6	47-7	47-8	47-9	47-10	47-10	47-11	48-0	48-1	48-1
475.00	53-0	53-1	53-2	53-3	53-4	53-5	53-6	53-7	53-8	53-8
500.00	58-10	58-11	59-0	59-1	59-2	59-4	59-5	59-6	59-7	59-7
525.00	65-0	65-1	65-2	65-4	65-5	65-6	65-7	65-8	65-9	65-10
550.00	71-5	71-7	71-8	71-10	71-11	72-0	72-2	72-3	72-4	72-5
575.00	78-3	78-5	78-6	78-8	78-9	78-11	79-0	79-1	79-3	79-3
600.00	85-4	85-6	85-8	85-10	85-11	86-1	86-2	86-4	86-5	86-6
625.00	92-10	93-0	93-2	93-4	93-5	93-7	93-9	93-11	94-0	94-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	14-6	14-6	14-7	14-7	14-7	14-8	14-8	14-8	14-8	14-8
275.00	17-7	17-7	17-8	17-8	17-8	17-9	17-9	17-9	17-9	17-10
300.00	20-11	21-0	21-0	21-1	21-1	21-1	21-2	21-2	21-2	21-3
325.00	24-7	24-8	24-8	24-9	24-9	24-10	24-10	24-10	24-11	24-11
350.00	28-7	28-7	28-8	28-9	28-9	28-10	28-10	28-11	28-11	28-11
375.00	32-10	32-11	32-11	33-0	33-1	33-1	33-2	33-2	33-3	33-3
400.00	37-5	37-6	37-7	37-7	37-8	37-9	37-9	37-10	37-10	37-11
425.00	42-4	42-5	42-5	42-6	42-7	42-8	42-8	42-9	42-10	42-10
450.00	47-6	47-7	47-8	47-9	47-10	47-11	47-11	48-0	48-1	48-1
475.00	53-0	53-1	53-2	53-3	53-4	53-5	53-6	53-7	53-8	53-8
500.00	58-10	58-11	59-0	59-2	59-3	59-4	59-5	59-6	59-7	59-7
525.00	65-0	65-1	65-3	65-4	65-5	65-6	65-7	65-8	65-9	65-10
550.00	71-6	71-7	71-8	71-10	71-11	72-1	72-2	72-3	72-4	72-5
575.00	78-3	78-5	78-6	78-8	78-9	78-11	79-0	79-2	79-3	79-3
600.00	85-5	85-7	85-8	85-10	85-11	86-1	86-3	86-4	86-5	86-6
625.00	92-10	93-0	93-2	93-4	93-6	93-7	93-9	93-11	94-0	94-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.336

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	1.68	2000	1.68	2000*
0	0	0	0	0.785	1.12	876	1.09	902
30	0	0	0	0.785	1.54	637	1.51	650
40	0	0	0	0.785	1.66	591	1.63	602
50	0	0	0	0.785	1.77	554	1.75	563
60	0	0	0	0.785	1.88	522	1.85	530
70	0	0	0	0.785	1.99	495	1.96	502
80	0	0	0	0.785	2.08	472	2.06	478
90	0	0	0	0.785	2.16	455	2.15	457
100	0	0	0	0.785	2.22	443	2.22	443
110	0	0	0	0.785	2.27	432	2.27	432
120	0	0	0	0.785	2.33	422	2.33	422
130	0	0	0	0.785	2.38	413	2.38	413
167	0	0	0	0.785	2.57	382	2.57	383
212	0	0	0	0.785	2.79	353	2.79	353

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	6.74	2000	6.74	2000*
0	0	0	0	0.785	6.18	637	6.14	641
30	0	0	0	0.785	6.6	598	6.57	600
40	0	0	0	0.785	6.72	587	6.69	590
50	0	0	0	0.785	6.84	577	6.81	579
60	0	0	0	0.785	6.96	567	6.93	569
70	0	0	0	0.785	7.07	558	7.04	560
80	0	0	0	0.785	7.19	549	7.16	551
90	0	0	0	0.785	7.3	540	7.27	543
100	0	0	0	0.785	7.39	534	7.38	535
110	0	0	0	0.785	7.46	529	7.46	529
120	0	0	0	0.785	7.53	524	7.53	524
130	0	0	0	0.785	7.6	520	7.6	520
167	0	0	0	0.785	7.85	503	7.85	503
212	0	0	0	0.785	8.14	485	8.14	485

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.337

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	15.24	2000	15.24	2000*
0	0	0	0	0.785	14.7	607	14.66	608
30	0	0	0	0.785	15.1	591	15.07	592
40	0	0	0	0.785	15.22	586	15.19	587
50	0	0	0	0.785	15.35	581	15.32	583
60	0	0	0	0.785	15.47	577	15.44	578
70	0	0	0	0.785	15.59	573	15.56	574
80	0	0	0	0.785	15.71	568	15.67	570
90	0	0	0	0.785	15.83	564	15.79	565
100	0	0	0	0.785	15.93	561	15.91	561
110	0	0	0	0.785	16	558	16	558
120	0	0	0	0.785	16.08	556	16.08	556
130	0	0	0	0.785	16.15	553	16.15	553
167	0	0	0	0.785	16.42	544	16.42	544
212	0	0	0	0.785	16.75	534	16.75	534

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	27.32	2000	27.32	2000*
0	0	0	0	0.785	26.78	597	26.74	598
30	0	0	0	0.785	27.18	588	27.15	589
40	0	0	0	0.785	27.3	586	27.27	586
50	0	0	0	0.785	27.43	583	27.4	584
60	0	0	0	0.785	27.55	581	27.52	581
70	0	0	0	0.785	27.67	578	27.64	579
80	0	0	0	0.785	27.79	576	27.76	577
90	0	0	0	0.785	27.91	573	27.88	574
100	0	0	0	0.785	28.02	571	28	572
110	0	0	0	0.785	28.09	570	28.09	570
120	0	0	0	0.785	28.17	568	28.17	568
130	0	0	0	0.785	28.25	567	28.25	567
167	0	0	0	0.785	28.53	561	28.53	561
212	0	0	0	0.785	28.87	555	28.87	555

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.338

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	43.16	2000	43.16	2000*
0	0	0	0	0.785	42.62	592	42.58	593
30	0	0	0	0.785	43.02	587	42.99	588
40	0	0	0	0.785	43.14	586	43.11	586
50	0	0	0	0.785	43.26	584	43.23	584
60	0	0	0	0.785	43.39	582	43.35	583
70	0	0	0	0.785	43.51	581	43.48	581
80	0	0	0	0.785	43.63	579	43.6	580
90	0	0	0	0.785	43.75	578	43.72	578
100	0	0	0	0.785	43.86	577	43.84	577
110	0	0	0	0.785	43.94	576	43.94	576
120	0	0	0	0.785	44.02	575	44.02	575
130	0	0	0	0.785	44.1	574	44.1	574
167	0	0	0	0.785	44.38	570	44.38	570
212	0	0	0	0.785	44.73	566	44.73	566

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.339

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-3
100.00	1-5	1-6	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-3
125.00	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-4	3-6	3-7
150.00	3-1	3-5	3-8	3-11	4-2	4-5	4-8	4-10	5-0	5-1
175.00	4-3	4-8	5-0	5-4	5-8	6-0	6-4	6-7	6-10	7-0
200.00	5-6	6-1	6-6	7-0	7-5	7-10	8-3	8-7	8-11	9-1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-3
100.00	1-5	1-6	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-3
125.00	2-2	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-6	3-7
150.00	3-2	3-6	3-9	4-0	4-3	4-6	4-8	4-10	5-0	5-1
175.00	4-4	4-9	5-1	5-5	5-9	6-1	6-5	6-8	6-10	7-0
200.00	5-8	6-2	6-8	7-1	7-7	7-11	8-4	8-8	8-11	9-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.340

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-7	1-8	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10
125.00	2-6	2-7	2-7	2-8	2-8	2-9	2-10	2-10	2-11	2-11
150.00	3-7	3-8	3-9	3-10	3-11	3-11	4-0	4-1	4-2	4-2
175.00	4-11	5-0	5-1	5-3	5-4	5-5	5-6	5-7	5-8	5-8
200.00	6-5	6-7	6-8	6-10	6-11	7-1	7-2	7-3	7-5	7-5
225.00	8-2	8-4	8-6	8-7	8-9	8-11	9-1	9-2	9-4	9-5
250.00	10-1	10-3	10-5	10-8	10-10	11-0	11-2	11-4	11-7	11-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-7	1-8	1-8	1-8	1-9	1-9	1-10	1-10	1-10	1-10
125.00	2-6	2-7	2-7	2-8	2-9	2-9	2-10	2-10	2-11	2-11
150.00	3-8	3-8	3-9	3-10	3-11	4-0	4-0	4-1	4-2	4-2
175.00	4-11	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-8
200.00	6-6	6-7	6-9	6-10	6-11	7-1	7-2	7-4	7-5	7-5
225.00	8-2	8-4	8-6	8-8	8-10	8-11	9-1	9-3	9-4	9-5
250.00	10-1	10-4	10-6	10-8	10-11	11-1	11-3	11-5	11-7	11-8

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STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-9	3-9	3-9	3-10	3-10	3-11	3-11	3-11	4-0	4-0
175.00	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-5	5-5
200.00	6-8	6-8	6-9	6-10	6-10	6-11	6-11	7-0	7-1	7-1
225.00	8-5	8-6	8-6	8-7	8-8	8-9	8-10	8-10	8-11	9-0
250.00	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1
275.00	12-7	12-8	12-9	12-10	13-0	13-1	13-2	13-3	13-4	13-5
300.00	14-11	15-1	15-2	15-4	15-5	15-7	15-8	15-10	15-11	16-0
325.00	17-7	17-8	17-10	18-0	18-2	18-3	18-5	18-7	18-8	18-9
350.00	20-4	20-6	20-8	20-10	21-0	21-2	21-4	21-6	21-8	21-10
375.00	23-5	23-7	23-9	24-0	24-2	24-4	24-6	24-9	24-11	25-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-9	3-9	3-10	3-10	3-10	3-11	3-11	3-11	4-0	4-0
175.00	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-4	5-5	5-5
200.00	6-8	6-8	6-9	6-10	6-10	6-11	7-0	7-0	7-1	7-1
225.00	8-5	8-6	8-7	8-7	8-8	8-9	8-10	8-11	8-11	9-0
250.00	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-1
275.00	12-7	12-8	12-9	12-11	13-0	13-1	13-2	13-3	13-4	13-5
300.00	15-0	15-1	15-3	15-4	15-6	15-7	15-8	15-10	15-11	16-0
325.00	17-7	17-9	17-11	18-0	18-2	18-4	18-5	18-7	18-8	18-9
350.00	20-5	20-7	20-9	20-11	21-1	21-3	21-5	21-7	21-8	21-10
375.00	23-5	23-8	23-10	24-0	24-3	24-5	24-7	24-9	24-11	25-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.342

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-9	6-9	6-9	6-10	6-10	6-11	6-11	6-11	7-0	7-0
225.00	8-6	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-10	8-10
250.00	10-6	10-7	10-7	10-8	10-8	10-9	10-10	10-10	10-11	10-11
275.00	12-9	12-10	12-10	12-11	13-0	13-0	13-1	13-2	13-2	13-3
300.00	15-2	15-3	15-4	15-4	15-5	15-6	15-7	15-8	15-8	15-9
325.00	17-10	17-11	18-0	18-1	18-2	18-2	18-3	18-4	18-5	18-6
350.00	20-8	20-9	20-10	20-11	21-0	21-2	21-3	21-4	21-5	21-6
375.00	23-9	23-10	23-11	24-1	24-2	24-3	24-5	24-6	24-7	24-8
400.00	27-0	27-2	27-3	27-5	27-6	27-8	27-9	27-11	28-0	28-1
425.00	30-6	30-8	30-10	30-11	31-1	31-3	31-4	31-6	31-8	31-9
450.00	34-3	34-5	34-7	34-9	34-11	35-0	35-2	35-4	35-6	35-7
475.00	38-2	38-5	38-7	38-9	38-11	39-1	39-3	39-5	39-7	39-9
500.00	42-4	42-7	42-9	42-11	43-2	43-4	43-6	43-9	43-11	44-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-9	6-9	6-10	6-10	6-10	6-11	6-11	6-11	7-0	7-0
225.00	8-6	8-7	8-7	8-8	8-8	8-9	8-9	8-10	8-10	8-10
250.00	10-6	10-7	10-8	10-8	10-9	10-9	10-10	10-10	10-11	10-11
275.00	12-9	12-10	12-10	12-11	13-0	13-0	13-1	13-2	13-2	13-3
300.00	15-2	15-3	15-4	15-5	15-5	15-6	15-7	15-8	15-9	15-9
325.00	17-10	17-11	18-0	18-1	18-2	18-3	18-4	18-5	18-5	18-6
350.00	20-8	20-9	20-10	21-0	21-1	21-2	21-3	21-4	21-5	21-6
375.00	23-9	23-10	24-0	24-1	24-2	24-4	24-5	24-6	24-7	24-8
400.00	27-1	27-2	27-4	27-5	27-7	27-8	27-10	27-11	28-0	28-1
425.00	30-7	30-9	30-10	31-0	31-2	31-3	31-5	31-6	31-8	31-9
450.00	34-4	34-5	34-7	34-9	34-11	35-1	35-3	35-5	35-6	35-7
475.00	38-3	38-5	38-7	38-9	38-11	39-1	39-4	39-6	39-7	39-9
500.00	42-5	42-7	42-10	43-0	43-2	43-5	43-7	43-9	43-11	44-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.343

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-8	10-8	10-8	10-9	10-9	10-9	10-10	10-10	10-11	10-11
275.00	12-11	12-11	12-11	13-0	13-0	13-1	13-1	13-2	13-2	13-2
300.00	15-4	15-5	15-5	15-6	15-6	15-7	15-7	15-8	15-8	15-9
325.00	18-0	18-1	18-1	18-2	18-3	18-3	18-4	18-4	18-5	18-5
350.00	20-11	21-0	21-0	21-1	21-2	21-2	21-3	21-4	21-4	21-5
375.00	24-0	24-1	24-2	24-3	24-3	24-4	24-5	24-6	24-7	24-7
400.00	27-4	27-5	27-6	27-7	27-8	27-9	27-10	27-11	27-11	28-0
425.00	30-11	31-0	31-1	31-2	31-3	31-4	31-5	31-6	31-7	31-8
450.00	34-8	34-9	34-10	34-11	35-1	35-2	35-3	35-4	35-5	35-6
475.00	38-8	38-9	38-10	39-0	39-1	39-2	39-4	39-5	39-6	39-7
500.00	42-10	43-0	43-1	43-3	43-4	43-6	43-7	43-9	43-10	43-11
525.00	47-4	47-5	47-7	47-9	47-10	48-0	48-1	48-3	48-5	48-6
550.00	52-0	52-1	52-3	52-5	52-7	52-9	52-10	53-0	53-2	53-3
575.00	56-10	57-0	57-2	57-4	57-6	57-8	57-10	58-0	58-2	58-4
600.00	62-0	62-2	62-4	62-6	62-8	62-11	63-1	63-3	63-5	63-7
625.00	67-4	67-6	67-9	67-11	68-1	68-4	68-6	68-8	68-11	69-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-8	10-8	10-8	10-9	10-9	10-10	10-10	10-10	10-11	10-11
275.00	12-11	12-11	13-0	13-0	13-0	13-1	13-1	13-2	13-2	13-2
300.00	15-4	15-5	15-5	15-6	15-6	15-7	15-7	15-8	15-8	15-9
325.00	18-0	18-1	18-2	18-2	18-3	18-3	18-4	18-5	18-5	18-5
350.00	20-11	21-0	21-0	21-1	21-2	21-3	21-3	21-4	21-5	21-5
375.00	24-0	24-1	24-2	24-3	24-4	24-4	24-5	24-6	24-7	24-7
400.00	27-4	27-5	27-6	27-7	27-8	27-9	27-10	27-11	28-0	28-0
425.00	30-11	31-0	31-1	31-2	31-3	31-4	31-5	31-6	31-7	31-8
450.00	34-8	34-9	34-11	35-0	35-1	35-2	35-3	35-4	35-6	35-6
475.00	38-8	38-9	38-11	39-0	39-1	39-3	39-4	39-5	39-7	39-7
500.00	42-11	43-0	43-2	43-3	43-5	43-6	43-8	43-9	43-10	43-11
525.00	47-4	47-6	47-7	47-9	47-11	48-0	48-2	48-3	48-5	48-6
550.00	52-0	52-2	52-4	52-5	52-7	52-9	52-11	53-1	53-2	53-3
575.00	56-11	57-1	57-3	57-5	57-7	57-9	57-11	58-1	58-2	58-4
600.00	62-0	62-3	62-5	62-7	62-9	62-11	63-1	63-3	63-5	63-7
625.00	67-5	67-7	67-9	68-0	68-2	68-4	68-7	68-9	68-11	69-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.344

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	1.34	2500	1.34	2500*
0	0	0	0	0.785	0.62	1572	0.6	1625
30	0	0	0	0.785	1.1	894	1.05	933
40	0	0	0	0.785	1.25	788	1.2	819
50	0	0	0	0.785	1.39	709	1.34	734
60	0	0	0	0.785	1.51	648	1.47	669
70	0	0	0	0.785	1.64	600	1.59	617
80	0	0	0	0.785	1.75	561	1.71	575
90	0	0	0	0.785	1.86	529	1.82	540
100	0	0	0	0.785	1.92	512	1.92	512
110	0	0	0	0.785	1.98	496	1.98	496
120	0	0	0	0.785	2.04	481	2.04	481
130	0	0	0	0.785	2.1	468	2.1	468
167	0	0	0	0.785	2.31	426	2.31	426
212	0	0	0	0.785	2.54	387	2.54	387

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	5.38	2500	5.38	2500*
0	0	0	0	0.785	4.63	850	4.56	862
30	0	0	0	0.785	5.12	768	5.07	776
40	0	0	0	0.785	5.28	746	5.23	753
50	0	0	0	0.785	5.43	725	5.38	732
60	0	0	0	0.785	5.57	706	5.52	713
70	0	0	0	0.785	5.72	689	5.66	695
80	0	0	0	0.785	5.86	672	5.8	678
90	0	0	0	0.785	5.99	657	5.94	663
100	0	0	0	0.785	6.13	643	6.07	648
110	0	0	0	0.785	6.21	634	6.21	635
120	0	0	0	0.785	6.29	626	6.29	626
130	0	0	0	0.785	6.37	618	6.37	618
167	0	0	0	0.785	6.66	592	6.66	592
212	0	0	0	0.785	7.01	563	7	563

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.345

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Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	12.15	2500	12.15	2500*
0	0	0	0	0.785	11.4	779	11.34	784
30	0	0	0	0.785	11.89	747	11.84	751
40	0	0	0	0.785	12.04	738	11.99	741
50	0	0	0	0.785	12.2	729	12.14	732
60	0	0	0	0.785	12.35	720	12.29	723
70	0	0	0	0.785	12.5	712	12.44	715
80	0	0	0	0.785	12.64	703	12.59	706
90	0	0	0	0.785	12.79	696	12.73	699
100	0	0	0	0.785	12.93	688	12.88	691
110	0	0	0	0.785	13.05	682	13.02	683
120	0	0	0	0.785	13.14	677	13.14	677
130	0	0	0	0.785	13.23	673	13.23	673
167	0	0	0	0.785	13.55	657	13.55	657
212	0	0	0	0.785	13.94	639	13.94	639

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	21.71	2500	21.71	2500*
0	0	0	0	0.785	20.97	757	20.9	759
30	0	0	0	0.785	21.45	740	21.4	742
40	0	0	0	0.785	21.6	735	21.55	737
50	0	0	0	0.785	21.76	730	21.71	732
60	0	0	0	0.785	21.91	725	21.86	727
70	0	0	0	0.785	22.06	720	22.01	722
80	0	0	0	0.785	22.21	716	22.16	717
90	0	0	0	0.785	22.36	711	22.3	713
100	0	0	0	0.785	22.51	706	22.45	708
110	0	0	0	0.785	22.64	702	22.6	704
120	0	0	0	0.785	22.73	700	22.73	700
130	0	0	0	0.785	22.82	697	22.82	697
167	0	0	0	0.785	23.17	687	23.17	687
212	0	0	0	0.785	23.58	675	23.58	675

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.346

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	34.15	2500	34.15	2500*
0	0	0	0	0.785	33.41	747	33.34	749
30	0	0	0	0.785	33.89	737	33.84	738
40	0	0	0	0.785	34.05	734	34	735
50	0	0	0	0.785	34.2	731	34.15	732
60	0	0	0	0.785	34.35	728	34.3	729
70	0	0	0	0.785	34.51	724	34.45	726
80	0	0	0	0.785	34.66	721	34.6	723
90	0	0	0	0.785	34.81	718	34.75	720
100	0	0	0	0.785	34.96	715	34.9	717
110	0	0	0	0.785	35.09	713	35.05	714
120	0	0	0	0.785	35.19	711	35.19	711
130	0	0	0	0.785	35.29	709	35.29	709
167	0	0	0	0.785	35.64	702	35.64	702
212	0	0	0	0.785	36.07	694	36.07	694

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.347

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-1
100.00	0-11	1-1	1-2	1-4	1-6	1-7	1-8	1-10	1-11	2-0
125.00	1-5	1-8	1-10	2-1	2-4	2-6	2-8	2-10	3-0	3-1
150.00	2-0	2-4	2-8	3-0	3-4	3-7	3-10	4-1	4-4	4-6
175.00	2-9	3-3	3-8	4-1	4-6	4-11	5-3	5-7	5-11	6-1
200.00	3-7	4-3	4-10	5-4	5-11	6-4	6-10	7-3	7-8	7-11

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-1
100.00	0-11	1-1	1-3	1-5	1-6	1-8	1-9	1-10	1-11	2-0
125.00	1-6	1-9	1-11	2-2	2-4	2-7	2-9	2-11	3-0	3-1
150.00	2-1	2-6	2-10	3-1	3-5	3-8	3-11	4-2	4-4	4-6
175.00	2-11	3-4	3-10	4-3	4-8	5-0	5-4	5-8	5-11	6-1
200.00	3-9	4-5	5-0	5-7	6-1	6-7	7-0	7-5	7-8	7-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.348

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-3	1-3	1-4	1-4	1-5	1-5	1-5	1-6	1-6	1-7
125.00	1-11	2-0	2-0	2-1	2-2	2-3	2-3	2-4	2-4	2-5
150.00	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6
175.00	3-9	3-11	4-0	4-1	4-3	4-4	4-5	4-7	4-8	4-9
200.00	4-11	5-1	5-3	5-5	5-6	5-8	5-10	5-11	6-1	6-2
225.00	6-3	6-5	6-7	6-10	7-0	7-2	7-4	7-6	7-8	7-10
250.00	7-8	7-11	8-2	8-5	8-8	8-10	9-1	9-3	9-6	9-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7
125.00	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-5	2-5
150.00	2-9	2-11	3-0	3-1	3-2	3-3	3-4	3-4	3-5	3-6
175.00	3-10	3-11	4-0	4-2	4-3	4-5	4-6	4-7	4-8	4-9
200.00	5-0	5-1	5-3	5-5	5-7	5-9	5-10	6-0	6-2	6-3
225.00	6-3	6-6	6-8	6-10	7-1	7-3	7-5	7-7	7-9	7-10
250.00	7-9	8-0	8-3	8-6	8-9	8-11	9-2	9-4	9-7	9-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.349

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3
175.00	4-0	4-0	4-1	4-2	4-2	4-3	4-3	4-4	4-4	4-5
200.00	5-2	5-3	5-4	5-5	5-5	5-6	5-7	5-8	5-9	5-9
225.00	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4
250.00	8-1	8-3	8-4	8-5	8-6	8-8	8-9	8-10	8-11	9-0
275.00	9-10	9-11	10-1	10-2	10-4	10-5	10-7	10-8	10-10	10-11
300.00	11-8	11-10	12-0	12-2	12-4	12-5	12-7	12-9	12-11	13-0
325.00	13-9	13-11	14-1	14-3	14-5	14-7	14-9	14-11	15-1	15-3
350.00	15-11	16-2	16-4	16-7	16-9	16-11	17-2	17-4	17-7	17-9
375.00	18-3	18-6	18-9	19-0	19-3	19-6	19-8	19-11	20-2	20-4

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-11	3-0	3-0	3-1	3-1	3-1	3-2	3-2	3-3	3-3
175.00	4-0	4-0	4-1	4-2	4-2	4-3	4-4	4-4	4-5	4-5
200.00	5-3	5-3	5-4	5-5	5-6	5-7	5-7	5-8	5-9	5-9
225.00	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4
250.00	8-2	8-3	8-4	8-6	8-7	8-8	8-9	8-11	9-0	9-1
275.00	9-10	10-0	10-1	10-3	10-4	10-6	10-7	10-9	10-10	11-0
300.00	11-9	11-11	12-1	12-2	12-4	12-6	12-8	12-9	12-11	13-1
325.00	13-9	14-0	14-2	14-4	14-6	14-8	14-10	15-0	15-2	15-4
350.00	16-0	16-2	16-5	16-7	16-10	17-0	17-3	17-5	17-7	17-9
375.00	18-4	18-7	18-10	19-1	19-4	19-7	19-9	20-0	20-3	20-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.350

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-4	5-4	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-8
225.00	6-8	6-9	6-10	6-10	6-11	6-11	7-0	7-0	7-1	7-2
250.00	8-3	8-4	8-5	8-6	8-6	8-7	8-8	8-8	8-9	8-10
275.00	10-0	10-1	10-2	10-3	10-4	10-5	10-5	10-6	10-7	10-8
300.00	11-11	12-0	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8
325.00	14-0	14-1	14-3	14-4	14-5	14-6	14-7	14-8	14-10	14-11
350.00	16-3	16-4	16-6	16-7	16-9	16-10	16-11	17-1	17-2	17-3
375.00	18-8	18-10	18-11	19-1	19-2	19-4	19-6	19-7	19-9	19-10
400.00	21-3	21-5	21-7	21-8	21-10	22-0	22-2	22-4	22-5	22-7
425.00	24-0	24-2	24-4	24-6	24-8	24-10	25-0	25-2	25-4	25-6
450.00	26-11	27-1	27-4	27-6	27-8	27-11	28-1	28-3	28-5	28-8
475.00	30-0	30-3	30-5	30-8	30-10	31-1	31-4	31-6	31-9	31-11
500.00	33-3	33-6	33-9	34-0	34-3	34-6	34-8	34-11	35-2	35-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-4	5-4	5-5	5-5	5-6	5-6	5-6	5-7	5-7	5-8
225.00	6-9	6-9	6-10	6-10	6-11	7-0	7-0	7-1	7-1	7-2
250.00	8-4	8-4	8-5	8-6	8-6	8-7	8-8	8-9	8-9	8-10
275.00	10-1	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-7	10-8
300.00	12-0	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9
325.00	14-0	14-2	14-3	14-4	14-5	14-7	14-8	14-9	14-10	14-11
350.00	16-3	16-5	16-6	16-8	16-9	16-11	17-0	17-1	17-3	17-4
375.00	18-8	18-10	19-0	19-1	19-3	19-5	19-6	19-8	19-9	19-11
400.00	21-4	21-5	21-7	21-9	21-11	22-1	22-3	22-4	22-6	22-8
425.00	24-1	24-3	24-5	24-7	24-9	24-11	25-1	25-3	25-5	25-7
450.00	27-0	27-2	27-4	27-7	27-9	27-11	28-2	28-4	28-6	28-8
475.00	30-1	30-4	30-6	30-9	30-11	31-2	31-4	31-7	31-10	32-0
500.00	33-4	33-7	33-10	34-1	34-4	34-7	34-9	35-0	35-3	35-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.351

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-5	8-5	8-6	8-6	8-6	8-7	8-7	8-8	8-8	8-9
275.00	10-2	10-2	10-3	10-3	10-4	10-5	10-5	10-6	10-6	10-7
300.00	12-1	12-2	12-2	12-3	12-4	12-4	12-5	12-6	12-6	12-7
325.00	14-2	14-3	14-4	14-5	14-5	14-6	14-7	14-8	14-8	14-9
350.00	16-5	16-6	16-7	16-8	16-9	16-10	16-11	17-0	17-1	17-1
375.00	18-11	19-0	19-1	19-2	19-3	19-4	19-5	19-6	19-7	19-8
400.00	21-6	21-7	21-9	21-10	21-11	22-0	22-1	22-2	22-3	22-5
425.00	24-4	24-5	24-6	24-8	24-9	24-10	24-11	25-1	25-2	25-3
450.00	27-3	27-5	27-6	27-8	27-9	27-10	28-0	28-1	28-3	28-4
475.00	30-5	30-6	30-8	30-10	30-11	31-1	31-3	31-4	31-6	31-7
500.00	33-8	33-10	34-0	34-2	34-4	34-5	34-7	34-9	34-11	35-1
525.00	37-2	37-4	37-6	37-8	37-10	38-0	38-2	38-4	38-6	38-8
550.00	40-10	41-0	41-2	41-4	41-7	41-9	41-11	42-1	42-3	42-6
575.00	44-8	44-10	45-1	45-3	45-5	45-8	45-10	46-1	46-3	46-5
600.00	48-8	48-10	49-1	49-4	49-6	49-9	50-0	50-2	50-5	50-7
625.00	52-10	53-1	53-4	53-6	53-9	54-0	54-3	54-6	54-9	55-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-5	8-5	8-6	8-6	8-7	8-7	8-7	8-8	8-8	8-9
275.00	10-2	10-3	10-3	10-4	10-4	10-5	10-5	10-6	10-6	10-7
300.00	12-1	12-2	12-3	12-3	12-4	12-4	12-5	12-6	12-6	12-7
325.00	14-2	14-3	14-4	14-5	14-6	14-6	14-7	14-8	14-9	14-9
350.00	16-6	16-7	16-8	16-8	16-9	16-10	16-11	17-0	17-1	17-2
375.00	18-11	19-0	19-1	19-2	19-3	19-4	19-5	19-6	19-7	19-8
400.00	21-7	21-8	21-9	21-10	21-11	22-0	22-2	22-3	22-4	22-5
425.00	24-4	24-5	24-7	24-8	24-9	24-11	25-0	25-1	25-3	25-4
450.00	27-4	27-5	27-7	27-8	27-10	27-11	28-0	28-2	28-3	28-5
475.00	30-5	30-7	30-9	30-10	31-0	31-1	31-3	31-5	31-6	31-8
500.00	33-9	33-11	34-1	34-2	34-4	34-6	34-8	34-10	35-0	35-1
525.00	37-3	37-5	37-7	37-9	37-11	38-1	38-3	38-5	38-7	38-9
550.00	40-11	41-1	41-3	41-5	41-7	41-10	42-0	42-2	42-4	42-6
575.00	44-8	44-11	45-1	45-4	45-6	45-9	45-11	46-2	46-4	46-6
600.00	48-9	48-11	49-2	49-5	49-7	49-10	50-1	50-3	50-6	50-8
625.00	52-11	53-2	53-5	53-7	53-10	54-1	54-4	54-7	54-10	55-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.352

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	1.12	3000	1.12	3000*
0	0	0	0	0.785	0.38	2562	0.38	2589
30	0	0	0	0.785	0.77	1283	0.71	1382
40	0	0	0	0.785	0.93	1059	0.86	1138
50	0	0	0	0.785	1.08	905	1.02	965
60	0	0	0	0.785	1.23	796	1.17	841
70	0	0	0	0.785	1.37	715	1.31	751
80	0	0	0	0.785	1.5	653	1.44	682
90	0	0	0	0.785	1.63	604	1.57	628
100	0	0	0	0.785	1.7	576	1.68	584
110	0	0	0	0.785	1.77	555	1.77	555
120	0	0	0	0.785	1.83	536	1.83	536
130	0	0	0	0.785	1.9	518	1.9	518
167	0	0	0	0.785	2.12	464	2.12	464
212	0	0	0	0.785	2.37	415	2.37	415

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	4.49	2992	4.48	3000*
0	0	0	0	0.785	3.49	1127	3.4	1157
30	0	0	0	0.785	4.09	962	4	984
40	0	0	0	0.785	4.27	920	4.18	940
50	0	0	0	0.785	4.45	883	4.36	901
60	0	0	0	0.785	4.63	850	4.54	867
70	0	0	0	0.785	4.8	820	4.7	836
80	0	0	0	0.785	4.96	793	4.87	808
90	0	0	0	0.785	5.12	769	5.03	783
100	0	0	0	0.785	5.27	747	5.18	759
110	0	0	0	0.785	5.38	731	5.33	738
120	0	0	0	0.785	5.48	719	5.48	719
130	0	0	0	0.785	5.57	707	5.57	707
167	0	0	0	0.785	5.89	669	5.89	669
212	0	0	0	0.785	6.27	629	6.27	629

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.353

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	10.12	2995	10.1	3000*
0	0	0	0	0.785	9.14	970	9.03	981
30	0	0	0	0.785	9.71	913	9.62	922
40	0	0	0	0.785	9.9	896	9.8	905
50	0	0	0	0.785	10.08	880	9.98	889
60	0	0	0	0.785	10.26	865	10.16	873
70	0	0	0	0.785	10.44	850	10.34	858
80	0	0	0	0.785	10.61	836	10.51	844
90	0	0	0	0.785	10.78	823	10.68	831
100	0	0	0	0.785	10.95	811	10.85	818
110	0	0	0	0.785	11.11	799	11.02	806
120	0	0	0	0.785	11.21	792	11.18	794
130	0	0	0	0.785	11.32	785	11.32	785
167	0	0	0	0.785	11.69	760	11.69	760
212	0	0	0	0.785	12.13	733	12.13	733

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	18.04	2997	18.03	3000*
0	0	0	0	0.785	17.07	927	16.96	932
30	0	0	0	0.785	17.64	897	17.54	902
40	0	0	0	0.785	17.82	888	17.72	893
50	0	0	0	0.785	18.01	879	17.9	884
60	0	0	0	0.785	18.19	870	18.09	875
70	0	0	0	0.785	18.37	862	18.26	867
80	0	0	0	0.785	18.55	854	18.44	859
90	0	0	0	0.785	18.72	846	18.62	851
100	0	0	0	0.785	18.9	838	18.79	843
110	0	0	0	0.785	19.07	831	18.97	835
120	0	0	0	0.785	19.19	826	19.14	828
130	0	0	0	0.785	19.3	821	19.3	821
167	0	0	0	0.785	19.7	805	19.7	805
212	0	0	0	0.785	20.18	786	20.18	786

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.354

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.682	28.32	2998	28.3	3000*
0	0	0	0	0.785	27.34	908	27.23	912
30	0	0	0	0.785	27.91	890	27.81	893
40	0	0	0	0.785	28.09	884	27.99	887
50	0	0	0	0.785	28.28	879	28.18	882
60	0	0	0	0.785	28.46	873	28.36	876
70	0	0	0	0.785	28.64	868	28.54	871
80	0	0	0	0.785	28.82	862	28.72	866
90	0	0	0	0.785	29	857	28.9	860
100	0	0	0	0.785	29.18	852	29.07	855
110	0	0	0	0.785	29.36	847	29.25	850
120	0	0	0	0.785	29.49	843	29.43	845
130	0	0	0	0.785	29.6	840	29.6	840
167	0	0	0	0.785	30.02	829	30.02	829
212	0	0	0	0.785	30.52	816	30.52	816

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.355

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 4	0- 5	0- 6	0- 7	0- 8	0- 9	0-10	0-11	0-11	1- 0
100.00	0- 7	0- 9	0-10	1- 0	1- 2	1- 4	1- 5	1- 7	1- 8	1- 9
125.00	0-11	1- 1	1- 4	1- 7	1-10	2- 1	2- 3	2- 5	2- 8	2- 9
150.00	1- 3	1- 7	1-11	2- 3	2- 8	2-11	3- 3	3- 6	3- 9	4- 0
175.00	1- 9	2- 2	2- 8	3- 1	3- 7	4- 0	4- 5	4-10	5- 2	5- 5
200.00	2- 4	2-10	3- 5	4- 1	4- 8	5- 3	5- 9	6- 3	6- 9	7- 1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 4	0- 5	0- 6	0- 7	0- 8	0- 9	0-10	0-11	1- 0	1- 0
100.00	0- 7	0- 9	0-11	1- 1	1- 3	1- 4	1- 6	1- 8	1- 8	1- 9
125.00	0-11	1- 2	1- 5	1- 8	1-11	2- 2	2- 4	2- 6	2- 8	2- 9
150.00	1- 5	1- 9	2- 1	2- 5	2- 9	3- 1	3- 5	3- 8	3-10	4- 0
175.00	1-10	2- 4	2-10	3- 4	3- 9	4- 2	4- 7	5- 0	5- 3	5- 5
200.00	2- 5	3- 1	3- 9	4- 4	4-11	5- 6	6- 0	6- 6	6-10	7- 1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.356

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	1- 0	1- 1	1- 1	1- 2	1- 2	1- 3	1- 3	1- 4	1- 4
125.00	1- 6	1- 7	1- 8	1- 8	1- 9	1-10	1-11	2- 0	2- 0	2- 1
150.00	2- 2	2- 3	2- 4	2- 5	2- 7	2- 8	2- 9	2-10	2-11	3- 0
175.00	2-11	3- 1	3- 2	3- 4	3- 6	3- 7	3- 9	3-10	4- 0	4- 1
200.00	3-10	4- 0	4- 2	4- 4	4- 6	4- 8	4-10	5- 0	5- 2	5- 4
225.00	4-10	5- 1	5- 4	5- 6	5- 9	5-11	6- 2	6- 4	6- 7	6- 9
250.00	5-11	6- 3	6- 6	6-10	7- 1	7- 4	7- 7	7-10	8- 1	8- 4

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1- 0	1- 0	1- 1	1- 1	1- 2	1- 2	1- 3	1- 3	1- 4	1- 4
125.00	1- 6	1- 7	1- 8	1- 9	1-10	1-10	1-11	2- 0	2- 1	2- 1
150.00	2- 2	2- 4	2- 5	2- 6	2- 7	2- 8	2- 9	2-11	3- 0	3- 0
175.00	3- 0	3- 2	3- 3	3- 5	3- 7	3- 8	3-10	3-11	4- 0	4- 1
200.00	3-11	4- 1	4- 3	4- 5	4- 8	4-10	5- 0	5- 1	5- 3	5- 5
225.00	4-11	5- 2	5- 5	5- 8	5-10	6- 1	6- 3	6- 6	6- 8	6-10
250.00	6- 1	6- 5	6- 8	7- 0	7- 3	7- 6	7- 9	8- 0	8- 3	8- 5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.357

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2- 4	2- 5	2- 5	2- 6	2- 6	2- 7	2- 7	2- 8	2- 9	2- 9
175.00	3- 2	3- 3	3- 4	3- 5	3- 5	3- 6	3- 7	3- 8	3- 8	3- 9
200.00	4- 2	4- 3	4- 4	4- 5	4- 6	4- 7	4- 8	4- 9	4-10	4-11
225.00	5- 4	5- 5	5- 6	5- 7	5- 9	5-10	5-11	6- 0	6- 1	6- 2
250.00	6- 7	6- 8	6-10	6-11	7- 1	7- 2	7- 4	7- 5	7- 6	7- 8
275.00	7-11	8- 1	8- 3	8- 5	8- 6	8- 8	8-10	9- 0	9- 1	9- 3
300.00	9- 5	9- 7	9-10	10- 0	10- 2	10- 4	10- 6	10- 8	10-10	11- 0
325.00	11- 1	11- 3	11- 6	11- 9	11-11	12- 2	12- 4	12- 7	12- 9	12-11
350.00	12-10	13- 1	13- 4	13- 7	13-10	14- 1	14- 4	14- 7	14- 9	15- 0
375.00	14- 9	15- 0	15- 4	15- 7	15-11	16- 2	16- 5	16- 9	17- 0	17- 3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2- 5	2- 5	2- 6	2- 6	2- 7	2- 7	2- 8	2- 8	2- 9	2- 9
175.00	3- 3	3- 4	3- 4	3- 5	3- 6	3- 7	3- 7	3- 8	3- 9	3- 9
200.00	4- 3	4- 4	4- 5	4- 6	4- 7	4- 8	4- 9	4- 9	4-10	4-11
225.00	5- 4	5- 6	5- 7	5- 8	5- 9	5-10	6- 0	6- 1	6- 2	6- 3
250.00	6- 7	6- 9	6-10	7- 0	7- 1	7- 3	7- 4	7- 6	7- 7	7- 9
275.00	8- 0	8- 2	8- 4	8- 6	8- 7	8- 9	8-11	9- 1	9- 2	9- 4
300.00	9- 6	9- 9	9-11	10- 1	10- 3	10- 5	10- 7	10- 9	10-11	11- 1
325.00	11- 2	11- 5	11- 7	11-10	12- 1	12- 3	12- 6	12- 8	12-10	13- 1
350.00	13- 0	13- 3	13- 6	13- 9	14- 0	14- 3	14- 5	14- 8	14-11	15- 2
375.00	14-11	15- 2	15- 6	15- 9	16- 1	16- 4	16- 7	16-10	17- 2	17- 5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.358

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4- 4	4- 5	4- 5	4- 6	4- 6	4- 7	4- 7	4- 8	4- 8	4- 9
225.00	5- 6	5- 6	5- 7	5- 8	5- 9	5- 9	5-10	5-11	5-11	6- 0
250.00	6- 9	6-10	6-11	7- 0	7- 1	7- 1	7- 2	7- 3	7- 4	7- 5
275.00	8- 2	8- 3	8- 4	8- 5	8- 6	8- 7	8- 8	8- 9	8-10	8-11
300.00	9- 9	9-10	9-11	10- 1	10- 2	10- 3	10- 4	10- 6	10- 7	10- 8
325.00	11- 5	11- 7	11- 8	11-10	11-11	12- 1	12- 2	12- 3	12- 5	12- 6
350.00	13- 3	13- 5	13- 7	13- 8	13-10	14- 0	14- 1	14- 3	14- 5	14- 6
375.00	15- 3	15- 5	15- 7	15- 9	15-11	16- 1	16- 2	16- 4	16- 6	16- 8
400.00	17- 4	17- 6	17- 9	17-11	18- 1	18- 3	18- 5	18- 7	18-10	19- 0
425.00	19- 7	19-10	20- 0	20- 3	20- 5	20- 8	20-10	21- 0	21- 3	21- 5
450.00	22- 0	22- 3	22- 5	22- 8	22-11	23- 2	23- 4	23- 7	23-10	24- 0
475.00	24- 6	24- 9	25- 0	25- 3	25- 6	25- 9	26- 0	26- 3	26- 6	26- 9
500.00	27- 2	27- 5	27- 9	28- 0	28- 4	28- 7	28-10	29- 2	29- 5	29- 8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4- 4	4- 5	4- 5	4- 6	4- 6	4- 7	4- 8	4- 8	4- 9	4- 9
225.00	5- 6	5- 7	5- 8	5- 8	5- 9	5-10	5-10	5-11	6- 0	6- 0
250.00	6-10	6-11	6-11	7- 0	7- 1	7- 2	7- 3	7- 4	7- 4	7- 5
275.00	8- 3	8- 4	8- 5	8- 6	8- 7	8- 8	8- 9	8-10	8-11	9- 0
300.00	9-10	9-11	10- 0	10- 1	10- 3	10- 4	10- 5	10- 6	10- 7	10- 9
325.00	11- 6	11- 8	11- 9	11-11	12- 0	12- 1	12- 3	12- 4	12- 6	12- 7
350.00	13- 4	13- 6	13- 8	13- 9	13-11	14- 1	14- 2	14- 4	14- 6	14- 7
375.00	15- 4	15- 6	15- 8	15-10	16- 0	16- 2	16- 4	16- 5	16- 7	16- 9
400.00	17- 5	17- 8	17-10	18- 0	18- 2	18- 4	18- 7	18- 9	18-11	19- 1
425.00	19- 8	19-11	20- 2	20- 4	20- 6	20- 9	20-11	21- 2	21- 4	21- 6
450.00	22- 1	22- 4	22- 7	22-10	23- 0	23- 3	23- 6	23- 9	23-11	24- 2
475.00	24- 8	24-11	25- 2	25- 5	25- 8	25-11	26- 2	26- 5	26- 8	26-11
500.00	27- 4	27- 7	27-11	28- 2	28- 6	28- 9	29- 0	29- 4	29- 7	29-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.359

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-11	6-11	7- 0	7- 0	7- 1	7- 1	7- 2	7- 2	7- 3	7- 3
275.00	8- 4	8- 5	8- 5	8- 6	8- 7	8- 7	8- 8	8- 9	8- 9	8-10
300.00	9-11	10- 0	10- 1	10- 1	10- 2	10- 3	10- 4	10- 4	10- 5	10- 6
325.00	11- 8	11- 9	11-10	11-11	11-11	12- 0	12- 1	12- 2	12- 3	12- 4
350.00	13- 6	13- 7	13- 8	13- 9	13-10	13-11	14- 0	14- 2	14- 3	14- 4
375.00	15- 6	15- 7	15- 9	15-10	15-11	16- 0	16- 1	16- 3	16- 4	16- 5
400.00	17- 8	17- 9	17-11	18- 0	18- 1	18- 3	18- 4	18- 6	18- 7	18- 8
425.00	19-11	20- 1	20- 2	20- 4	20- 6	20- 7	20- 9	20-10	21- 0	21- 1
450.00	22- 4	22- 6	22- 8	22-10	22-11	23- 1	23- 3	23- 5	23- 6	23- 8
475.00	24-11	25- 1	25- 3	25- 5	25- 7	25- 9	25-11	26- 1	26- 3	26- 5
500.00	27- 7	27-10	28- 0	28- 2	28- 4	28- 6	28- 9	28-11	29- 1	29- 3
525.00	30- 6	30- 8	30-10	31- 1	31- 3	31- 6	31- 8	31-10	32- 1	32- 3
550.00	33- 5	33- 8	33-11	34- 1	34- 4	34- 7	34- 9	35- 0	35- 3	35- 5
575.00	36- 7	36-10	37- 1	37- 4	37- 7	37-10	38- 0	38- 3	38- 6	38- 9
600.00	39-10	40- 1	40- 5	40- 8	40-11	41- 2	41- 5	41- 8	41-11	42- 2
625.00	43- 3	43- 7	43-10	44- 2	44- 5	44- 8	45- 0	45- 3	45- 6	45-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-11	6-11	7- 0	7- 1	7- 1	7- 2	7- 2	7- 3	7- 3	7- 4
275.00	8- 4	8- 5	8- 6	8- 6	8- 7	8- 8	8- 8	8- 9	8-10	8-10
300.00	9-11	10- 0	10- 1	10- 2	10- 3	10- 3	10- 4	10- 5	10- 6	10- 6
325.00	11- 8	11- 9	11-10	11-11	12- 0	12- 1	12- 2	12- 3	12- 4	12- 4
350.00	13- 7	13- 8	13- 9	13-10	13-11	14- 0	14- 1	14- 2	14- 3	14- 4
375.00	15- 7	15- 8	15- 9	15-11	16- 0	16- 1	16- 2	16- 3	16- 5	16- 6
400.00	17- 9	17-10	17-11	18- 1	18- 2	18- 4	18- 5	18- 6	18- 8	18- 9
425.00	20- 0	20- 2	20- 3	20- 5	20- 6	20- 8	20-10	20-11	21- 1	21- 2
450.00	22- 5	22- 7	22- 9	22-11	23- 0	23- 2	23- 4	23- 6	23- 7	23- 9
475.00	25- 0	25- 2	25- 4	25- 6	25- 8	25-10	26- 0	26- 2	26- 4	26- 6
500.00	27- 9	27-11	28- 1	28- 3	28- 6	28- 8	28-10	29- 0	29- 2	29- 4
525.00	30- 7	30- 9	31- 0	31- 2	31- 5	31- 7	31-10	32- 0	32- 2	32- 5
550.00	33- 7	33-10	34- 0	34- 3	34- 6	34- 8	34-11	35- 2	35- 4	35- 7
575.00	36- 9	36-11	37- 2	37- 5	37- 8	37-11	38- 2	38- 5	38- 8	38-11
600.00	40- 0	40- 3	40- 6	40-10	41- 1	41- 4	41- 7	41-10	42- 1	42- 4
625.00	43- 5	43- 8	44- 0	44- 3	44- 7	44-10	45- 2	45- 5	45- 9	46- 0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.360

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 1033.5 - 45/7 ACSR/AW CONDUCTOR. CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION
- 1000 LB TENSION ---------- 813.3
- 1500 LB TENSION ---------- 813.11
- 2000 LB TENSION ---------- 813.19
- 2500 LB TENSION ---------- 813.27
- 3000 LB TENSION ---------- 813.35

G.O. 95 HEAVY LOADING CONDITION
- 1000 LB TENSION ---------- 813.43
- 1500 LB TENSION ---------- 813.51
- 2000 LB TENSION ---------- 813.59
- 2500 LB TENSION ---------- 813.67
- 3000 LB TENSION ---------- 813.75

SDG&E EXTRA HEAVY LOADING CONDITION
- 1000 LB TENSION ---------- 813.83
- 1500 LB TENSION ---------- 813.91
- 2000 LB TENSION ---------- 813.99
- 2500 LB TENSION ---------- 813.107
- 3000 LB TENSION ---------- 813.115

65 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 813.123
- 1500 LB TENSION ---------- 813.131
- 2000 LB TENSION ---------- 813.139
- 2500 LB TENSION ---------- 813.147
- 3000 LB TENSION ---------- 813.155

65 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 813.163
- 1500 LB TENSION ---------- 813.171
- 2000 LB TENSION ---------- 813.179
- 2500 LB TENSION ---------- 813.187
- 3000 LB TENSION ---------- 813.195

85 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 813.203
- 1500 LB TENSION ---------- 813.211
- 2000 LB TENSION ---------- 813.219
- 2500 LB TENSION ---------- 813.227
- 3000 LB TENSION ---------- 813.235

85 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 813.243
- 1500 LB TENSION ---------- 813.251
- 2000 LB TENSION ---------- 813.259
- 2500 LB TENSION ---------- 813.267
- 3000 LB TENSION ---------- 813.275

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SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 1033.5 - 45/7 ACSR/AW CONDUCTOR. CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 813.283
1500 LB TENSION ---------- 813.291
2000 LB TENSION ---------- 813.299
2500 LB TENSION ---------- 813.307
3000 LB TENSION ---------- 813.315

111 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 813.323
1500 LB TENSION ---------- 813.331
2000 LB TENSION ---------- 813.339
2500 LB TENSION ---------- 813.347
3000 LB TENSION ---------- 813.355

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a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.392	1.74	1000	1.74	1000*
25	0	0	0	1.134	1.72	825	1.71	828
30	0	0	0	1.134	1.78	798	1.77	801
40	0	0	0	1.134	1.89	750	1.89	753
50	0	0	0	1.134	2	709	1.99	712
60	0	0	0	1.134	2.11	675	2.1	678
70	0	0	0	1.134	2.2	644	2.19	647
80	0	0	0	1.134	2.3	618	2.29	621
90	0	0	0	1.134	2.39	594	2.38	597
100	0	0	0	1.134	2.47	575	2.47	576
110	0	0	0	1.134	2.54	560	2.54	560
120	0	0	0	1.134	2.59	549	2.59	549
130	0	0	0	1.134	2.63	540	2.63	540
167	0	0	0	1.134	2.8	507	2.8	507
212	0	0	0	1.134	3	475	3	475

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.392	7	1000	7	1000*
25	0	0	0	1.134	6.97	817	6.97	818
30	0	0	0	1.134	7.03	810	7.03	811
40	0	0	0	1.134	7.16	796	7.15	797
50	0	0	0	1.134	7.28	783	7.27	784
60	0	0	0	1.134	7.4	771	7.39	772
70	0	0	0	1.134	7.51	759	7.5	760
80	0	0	0	1.134	7.63	747	7.62	748
90	0	0	0	1.134	7.74	737	7.73	738
100	0	0	0	1.134	7.86	726	7.84	727
110	0	0	0	1.134	7.97	716	7.95	717
120	0	0	0	1.134	8.06	708	8.06	708
130	0	0	0	1.134	8.15	701	8.15	701
167	0	0	0	1.134	8.38	682	8.38	682
212	0	0	0	1.134	8.65	660	8.65	660

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.3

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.392	15.84	1000	15.84	1000*
25	0	0	0	1.134	15.81	816	15.81	816
30	0	0	0	1.134	15.88	812	15.87	813
40	0	0	0	1.134	16	806	16	807
50	0	0	0	1.134	16.13	800	16.12	801
60	0	0	0	1.134	16.25	794	16.24	795
70	0	0	0	1.134	16.37	789	16.36	789
80	0	0	0	1.134	16.49	783	16.48	783
90	0	0	0	1.134	16.61	777	16.6	778
100	0	0	0	1.134	16.73	772	16.72	772
110	0	0	0	1.134	16.85	767	16.84	767
120	0	0	0	1.134	16.97	762	16.96	762
130	0	0	0	1.134	17.07	757	17.07	757
167	0	0	0	1.134	17.34	746	17.34	746
212	0	0	0	1.134	17.64	733	17.64	733

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.392	28.41	1000	28.41	1000*
25	0	0	0	1.134	28.39	815	28.38	815
30	0	0	0	1.134	28.45	813	28.44	814
40	0	0	0	1.134	28.58	810	28.57	810
50	0	0	0	1.134	28.7	807	28.69	807
60	0	0	0	1.134	28.82	803	28.82	803
70	0	0	0	1.134	28.95	800	28.94	800
80	0	0	0	1.134	29.07	797	29.06	797
90	0	0	0	1.134	29.2	793	29.18	794
100	0	0	0	1.134	29.32	790	29.31	791
110	0	0	0	1.134	29.44	787	29.43	787
120	0	0	0	1.134	29.56	784	29.55	784
130	0	0	0	1.134	29.67	781	29.67	781
167	0	0	0	1.134	29.96	774	29.96	774
212	0	0	0	1.134	30.28	766	30.28	766

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.4

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Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.392	44.92	1000	44.92	1000*
25	0	0	0	1.134	44.9	815	44.89	815
30	0	0	0	1.134	44.96	814	44.95	814
40	0	0	0	1.134	45.09	812	45.08	812
50	0	0	0	1.134	45.21	810	45.2	810
60	0	0	0	1.134	45.34	807	45.33	808
70	0	0	0	1.134	45.46	805	45.45	806
80	0	0	0	1.134	45.59	803	45.58	803
90	0	0	0	1.134	45.71	801	45.7	801
100	0	0	0	1.134	45.83	799	45.82	799
110	0	0	0	1.134	45.96	797	45.94	797
120	0	0	0	1.134	46.08	795	46.07	795
130	0	0	0	1.134	46.19	794	46.19	794
167	0	0	0	1.134	46.49	789	46.49	789
212	0	0	0	1.134	46.82	783	46.82	783

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.5

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-5
100.00	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-5	2-6	2-6
125.00	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9	3-10	4-0
150.00	3-9	4-0	4-3	4-6	4-9	4-11	5-2	5-4	5-7	5-9
175.00	5-1	5-5	5-9	6-1	6-5	6-9	7-0	7-4	7-7	7-10
200.00	6-7	7-1	7-7	8-0	8-5	8-9	9-2	9-6	9-11	10-2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-5
100.00	1-8	1-9	1-11	2-0	2-1	2-2	2-4	2-5	2-6	2-6
125.00	2-7	2-9	3-0	3-2	3-3	3-5	3-7	3-9	3-10	4-0
150.00	3-9	4-0	4-3	4-6	4-9	5-0	5-2	5-5	5-7	5-9
175.00	5-1	5-5	5-10	6-2	6-5	6-9	7-1	7-4	7-7	7-10
200.00	6-8	7-1	7-7	8-0	8-5	8-10	9-3	9-7	9-11	10-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.6

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11	1-11	2-0
125.00	2-8	2-9	2-9	2-10	2-11	2-11	3-0	3-0	3-1	3-1
150.00	3-11	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-6
175.00	5-3	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1
200.00	6-11	7-0	7-2	7-3	7-5	7-6	7-7	7-9	7-10	7-11
225.00	8-9	8-11	9-1	9-2	9-4	9-6	9-8	9-10	9-11	10-1
250.00	10-10	11-0	11-2	11-4	11-7	11-9	11-11	12-1	12-3	12-5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-10	1-10	1-11	1-11	1-11	2-0	2-0
125.00	2-8	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1
150.00	3-11	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-6
175.00	5-3	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1
200.00	6-11	7-0	7-2	7-3	7-5	7-6	7-8	7-9	7-10	8-0
225.00	8-9	8-11	9-1	9-3	9-4	9-6	9-8	9-10	9-11	10-1
250.00	10-10	11-0	11-2	11-5	11-7	11-9	11-11	12-1	12-3	12-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.7

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-11	3-11	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-2
175.00	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-8	5-8	5-9
200.00	7-0	7-0	7-1	7-2	7-2	7-3	7-4	7-4	7-5	7-6
225.00	8-10	8-11	9-0	9-1	9-1	9-2	9-3	9-4	9-5	9-5
250.00	10-11	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8
275.00	13-3	13-4	13-5	13-6	13-8	13-9	13-10	13-11	14-0	14-2
300.00	15-9	15-10	16-0	16-1	16-3	16-4	16-6	16-7	16-9	16-10
325.00	18-6	18-8	18-9	18-11	19-1	19-3	19-4	19-6	19-8	19-9
350.00	21-6	21-8	21-10	22-0	22-2	22-4	22-6	22-8	22-10	22-11
375.00	24-8	24-10	25-1	25-3	25-5	25-7	25-10	26-0	26-2	26-4

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-11	4-0	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-2
175.00	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-8	5-8	5-9
200.00	7-0	7-1	7-1	7-2	7-2	7-3	7-4	7-4	7-5	7-6
225.00	8-10	8-11	9-0	9-1	9-2	9-2	9-3	9-4	9-5	9-6
250.00	10-11	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8
275.00	13-3	13-4	13-5	13-7	13-8	13-9	13-10	13-11	14-1	14-2
300.00	15-9	15-11	16-0	16-2	16-3	16-4	16-6	16-7	16-9	16-10
325.00	18-6	18-8	18-10	18-11	19-1	19-3	19-4	19-6	19-8	19-10
350.00	21-6	21-8	21-10	22-0	22-2	22-4	22-6	22-8	22-10	23-0
375.00	24-8	24-10	25-1	25-3	25-5	25-8	25-10	26-0	26-2	26-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.8

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-1	7-1	7-1	7-2	7-2	7-2	7-3	7-3	7-3	7-4
225.00	8-11	9-0	9-0	9-0	9-1	9-1	9-2	9-2	9-3	9-3
250.00	11-0	11-1	11-1	11-2	11-3	11-3	11-4	11-4	11-5	11-5
275.00	13-4	13-5	13-5	13-6	13-7	13-8	13-8	13-9	13-10	13-10
300.00	15-11	15-11	16-0	16-1	16-2	16-3	16-4	16-4	16-5	16-6
325.00	18-8	18-9	18-10	18-11	19-0	19-1	19-2	19-3	19-4	19-5
350.00	21-8	21-9	21-10	21-11	22-0	22-1	22-3	22-4	22-5	22-6
375.00	24-10	25-0	25-1	25-2	25-4	25-5	25-6	25-8	25-9	25-10
400.00	28-4	28-5	28-7	28-8	28-10	28-11	29-1	29-2	29-4	29-5
425.00	32-0	32-2	32-3	32-5	32-7	32-8	32-10	33-0	33-1	33-3
450.00	35-11	36-1	36-3	36-5	36-6	36-8	36-10	37-0	37-2	37-4
475.00	40-0	40-3	40-5	40-7	40-9	40-11	41-1	41-3	41-5	41-7
500.00	44-5	44-7	44-10	45-0	45-2	45-5	45-7	45-9	46-0	46-2

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-1	7-1	7-1	7-2	7-2	7-2	7-3	7-3	7-3	7-4
225.00	8-11	9-0	9-0	9-0	9-1	9-1	9-2	9-2	9-3	9-3
250.00	11-0	11-1	11-1	11-2	11-3	11-3	11-4	11-4	11-5	11-5
275.00	13-4	13-5	13-6	13-6	13-7	13-8	13-8	13-9	13-10	13-10
300.00	15-11	15-11	16-0	16-1	16-2	16-3	16-4	16-4	16-5	16-6
325.00	18-8	18-9	18-10	18-11	19-0	19-1	19-2	19-3	19-4	19-5
350.00	21-8	21-9	21-10	21-11	22-0	22-2	22-3	22-4	22-5	22-6
375.00	24-10	25-0	25-1	25-2	25-4	25-5	25-6	25-8	25-9	25-10
400.00	28-4	28-5	28-7	28-8	28-10	28-11	29-1	29-2	29-4	29-5
425.00	32-0	32-2	32-3	32-5	32-7	32-9	32-10	33-0	33-2	33-3
450.00	35-11	36-1	36-3	36-5	36-7	36-8	36-10	37-0	37-2	37-4
475.00	40-1	40-3	40-5	40-7	40-9	40-11	41-1	41-3	41-6	41-8
500.00	44-5	44-7	44-10	45-0	45-3	45-5	45-7	45-10	46-0	46-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.9

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-1	11-2	11-2	11-3	11-3	11-3	11-4	11-4	11-4	11-5
275.00	13-6	13-6	13-6	13-7	13-7	13-8	13-8	13-9	13-9	13-10
300.00	16-0	16-1	16-1	16-2	16-2	16-3	16-4	16-4	16-5	16-5
325.00	18-10	18-11	18-11	19-0	19-0	19-1	19-2	19-2	19-3	19-3
350.00	21-10	21-11	22-0	22-0	22-1	22-2	22-3	22-3	22-4	22-5
375.00	25-1	25-2	25-3	25-4	25-5	25-5	25-6	25-7	25-8	25-9
400.00	28-7	28-8	28-9	28-10	28-11	29-0	29-1	29-2	29-3	29-3
425.00	32-4	32-5	32-6	32-7	32-8	32-9	32-10	32-11	33-0	33-1
450.00	36-3	36-4	36-5	36-6	36-8	36-9	36-10	36-11	37-0	37-2
475.00	40-5	40-6	40-8	40-9	40-10	41-0	41-1	41-2	41-4	41-5
500.00	44-10	44-11	45-1	45-2	45-4	45-5	45-7	45-8	45-10	45-11
525.00	49-6	49-7	49-9	49-11	50-0	50-2	50-4	50-5	50-7	50-9
550.00	54-4	54-6	54-8	54-10	55-0	55-1	55-3	55-5	55-7	55-9
575.00	59-6	59-8	59-10	60-0	60-2	60-4	60-6	60-8	60-10	61-0
600.00	64-10	65-0	65-3	65-5	65-7	65-9	65-11	66-1	66-4	66-6
625.00	70-6	70-8	70-10	71-1	71-3	71-5	71-8	71-10	72-0	72-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-1	11-2	11-2	11-3	11-3	11-3	11-4	11-4	11-4	11-5
275.00	13-6	13-6	13-6	13-7	13-7	13-8	13-8	13-9	13-9	13-10
300.00	16-0	16-1	16-1	16-2	16-3	16-3	16-4	16-4	16-5	16-5
325.00	18-10	18-11	18-11	19-0	19-0	19-1	19-2	19-2	19-3	19-4
350.00	21-10	21-11	22-0	22-0	22-1	22-2	22-3	22-3	22-4	22-5
375.00	25-1	25-2	25-3	25-4	25-5	25-5	25-6	25-7	25-8	25-9
400.00	28-7	28-8	28-9	28-10	28-11	29-0	29-1	29-2	29-3	29-4
425.00	32-4	32-5	32-6	32-7	32-8	32-9	32-10	32-11	33-0	33-1
450.00	36-3	36-4	36-5	36-7	36-8	36-9	36-10	36-11	37-1	37-2
475.00	40-5	40-6	40-8	40-9	40-10	41-0	41-1	41-3	41-4	41-5
500.00	44-10	45-0	45-1	45-3	45-4	45-6	45-7	45-9	45-10	45-11
525.00	49-6	49-7	49-9	49-11	50-0	50-2	50-4	50-5	50-7	50-9
550.00	54-4	54-6	54-8	54-10	55-0	55-2	55-3	55-5	55-7	55-9
575.00	59-6	59-8	59-10	60-0	60-2	60-4	60-6	60-8	60-10	61-0
600.00	64-10	65-1	65-3	65-5	65-7	65-9	65-11	66-2	66-4	66-6
625.00	70-6	70-8	70-10	71-1	71-3	71-6	71-8	71-10	72-1	72-3

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SHEET 10 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.10

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.392	1.16	1500	1.16	1500*
25	0	0	0	1.134	1.11	1272	1.11	1282
30	0	0	0	1.134	1.19	1188	1.18	1201
40	0	0	0	1.134	1.34	1056	1.33	1070
50	0	0	0	1.134	1.48	957	1.46	970
60	0	0	0	1.134	1.61	879	1.59	891
70	0	0	0	1.134	1.74	817	1.71	828
80	0	0	0	1.134	1.85	766	1.83	776
90	0	0	0	1.134	1.96	723	1.94	732
100	0	0	0	1.134	2.07	686	2.04	695
110	0	0	0	1.134	2.15	660	2.14	662
120	0	0	0	1.134	2.23	638	2.23	638
130	0	0	0	1.134	2.28	624	2.28	624
167	0	0	0	1.134	2.46	577	2.46	577
212	0	0	0	1.134	2.68	531	2.68	531

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.392	4.71	1483	4.65	1500*
25	0	0	0	1.134	4.65	1221	4.59	1239
30	0	0	0	1.134	4.74	1198	4.68	1215
40	0	0	0	1.134	4.92	1156	4.85	1172
50	0	0	0	1.134	5.09	1117	5.02	1133
60	0	0	0	1.134	5.25	1083	5.18	1097
70	0	0	0	1.134	5.41	1051	5.34	1065
80	0	0	0	1.134	5.57	1021	5.5	1035
90	0	0	0	1.134	5.72	994	5.65	1007
100	0	0	0	1.134	5.87	969	5.8	981
110	0	0	0	1.134	6.01	946	5.94	958
120	0	0	0	1.134	6.16	924	6.08	935
130	0	0	0	1.134	6.3	904	6.22	915
167	0	0	0	1.134	6.6	862	6.6	862
212	0	0	0	1.134	6.93	822	6.93	822

* Design Condition

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SHEET 11 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.11

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.392	10.57	1489	10.49	1500*
25	0	0	0	1.134	10.52	1219	10.43	1229
30	0	0	0	1.134	10.61	1208	10.52	1219
40	0	0	0	1.134	10.79	1188	10.7	1198
50	0	0	0	1.134	10.97	1169	10.88	1179
60	0	0	0	1.134	11.15	1150	11.06	1160
70	0	0	0	1.134	11.32	1133	11.23	1143
80	0	0	0	1.134	11.5	1116	11.4	1126
90	0	0	0	1.134	11.67	1100	11.57	1109
100	0	0	0	1.134	11.83	1085	11.73	1094
110	0	0	0	1.134	12	1070	11.9	1079
120	0	0	0	1.134	12.16	1056	12.06	1065
130	0	0	0	1.134	12.32	1042	12.22	1051
167	0	0	0	1.134	12.77	1006	12.77	1006
212	0	0	0	1.134	13.17	976	13.17	976

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.392	18.82	1493	18.73	1500*
25	0	0	0	1.134	18.76	1219	18.66	1226
30	0	0	0	1.134	18.86	1213	18.75	1220
40	0	0	0	1.134	19.04	1202	18.94	1208
50	0	0	0	1.134	19.23	1191	19.12	1197
60	0	0	0	1.134	19.41	1180	19.3	1186
70	0	0	0	1.134	19.59	1169	19.48	1175
80	0	0	0	1.134	19.77	1159	19.66	1165
90	0	0	0	1.134	19.94	1148	19.84	1155
100	0	0	0	1.134	20.12	1139	20.01	1145
110	0	0	0	1.134	20.29	1129	20.18	1135
120	0	0	0	1.134	20.47	1120	20.35	1126
130	0	0	0	1.134	20.64	1111	20.53	1117
167	0	0	0	1.134	21.17	1083	21.14	1085
212	0	0	0	1.134	21.62	1061	21.62	1061

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.12

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.392	29.51	1495	29.41	1500*
25	0	0	0	1.134	29.45	1220	29.34	1224
30	0	0	0	1.134	29.54	1216	29.44	1221
40	0	0	0	1.134	29.73	1209	29.62	1213
50	0	0	0	1.134	29.92	1201	29.81	1206
60	0	0	0	1.134	30.1	1194	29.99	1199
70	0	0	0	1.134	30.29	1187	30.17	1192
80	0	0	0	1.134	30.47	1180	30.35	1185
90	0	0	0	1.134	30.65	1174	30.53	1178
100	0	0	0	1.134	30.83	1167	30.71	1171
110	0	0	0	1.134	31.01	1160	30.89	1165
120	0	0	0	1.134	31.19	1154	31.07	1158
130	0	0	0	1.134	31.37	1148	31.24	1152
167	0	0	0	1.134	31.95	1127	31.89	1129
212	0	0	0	1.134	32.42	1111	32.42	1111

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.13

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2
100.00	1-0	1-2	1-4	1-6	1-7	1-9	1-10	1-11	2-1	2-2
125.00	1-7	1-10	2-1	2-3	2-6	2-8	2-10	3-0	3-2	3-4
150.00	2-4	2-8	3-0	3-4	3-7	3-10	4-1	4-4	4-7	4-10
175.00	3-2	3-7	4-1	4-6	4-11	5-3	5-7	5-11	6-3	6-7
200.00	4-1	4-9	5-4	5-10	6-4	6-10	7-4	7-9	8-2	8-7

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-3
100.00	1-0	1-2	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-2
125.00	1-7	1-10	2-1	2-4	2-6	2-9	2-11	3-1	3-3	3-4
150.00	2-4	2-8	3-0	3-4	3-8	3-11	4-2	4-5	4-8	4-10
175.00	3-2	3-8	4-1	4-7	4-11	5-4	5-8	6-0	6-4	6-7
200.00	4-2	4-9	5-5	5-11	6-6	6-11	7-5	7-10	8-3	8-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-2	1-3	1-3	1-4	1-4	1-4	1-5	1-5	1-6
125.00	1-9	1-10	1-11	2-0	2-0	2-1	2-2	2-2	2-3	2-4
150.00	2-6	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4
175.00	3-5	3-7	3-9	3-10	4-0	4-1	4-2	4-4	4-5	4-7
200.00	4-6	4-8	4-10	5-0	5-2	5-4	5-6	5-8	5-10	5-11
225.00	5-8	5-11	6-2	6-4	6-7	6-9	7-0	7-2	7-4	7-6
250.00	7-0	7-4	7-7	7-10	8-1	8-4	8-7	8-10	9-1	9-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6
125.00	1-9	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4
150.00	2-7	2-8	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-5
175.00	3-6	3-8	3-9	3-11	4-0	4-2	4-3	4-5	4-6	4-7
200.00	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-10	6-0
225.00	5-9	6-0	6-3	6-5	6-8	6-10	7-1	7-3	7-5	7-7
250.00	7-2	7-5	7-8	7-11	8-3	8-6	8-8	8-11	9-2	9-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.15

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0
175.00	3-6	3-7	3-8	3-8	3-9	3-10	3-10	3-11	4-0	4-1
200.00	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-3
225.00	5-10	5-11	6-0	6-1	6-3	6-4	6-5	6-6	6-7	6-8
250.00	7-2	7-4	7-5	7-7	7-8	7-10	7-11	8-0	8-2	8-3
275.00	8-8	8-10	9-0	9-2	9-3	9-5	9-7	9-9	9-10	10-0
300.00	10-4	10-6	10-8	10-11	11-1	11-3	11-5	11-7	11-9	11-11
325.00	12-2	12-4	12-7	12-9	13-0	13-2	13-5	13-7	13-9	14-0
350.00	14-1	14-4	14-7	14-10	15-1	15-4	15-6	15-9	16-0	16-2
375.00	16-2	16-5	16-9	17-0	17-3	17-7	17-10	18-1	18-4	18-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0
175.00	3-7	3-7	3-8	3-9	3-9	3-10	3-11	4-0	4-0	4-1
200.00	4-8	4-9	4-10	4-10	4-11	5-0	5-1	5-2	5-3	5-4
225.00	5-10	6-0	6-1	6-2	6-3	6-4	6-6	6-7	6-8	6-9
250.00	7-3	7-4	7-6	7-7	7-9	7-10	8-0	8-1	8-3	8-4
275.00	8-9	8-11	9-1	9-3	9-4	9-6	9-8	9-10	9-11	10-1
300.00	10-5	10-7	10-10	11-0	11-2	11-4	11-6	11-8	11-10	12-0
325.00	12-3	12-5	12-8	12-11	13-1	13-4	13-6	13-8	13-11	14-1
350.00	14-2	14-5	14-8	14-11	15-2	15-5	15-8	15-11	16-1	16-4
375.00	16-4	16-7	16-11	17-2	17-5	17-9	18-0	18-3	18-6	18-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.16

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-8	4-8	4-9	4-9	4-10	4-10	4-11	4-11	5-0	5-0
225.00	5-10	5-11	6-0	6-0	6-1	6-2	6-2	6-3	6-4	6-4
250.00	7-3	7-4	7-5	7-5	7-6	7-7	7-8	7-9	7-10	7-10
275.00	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6
300.00	10-5	10-6	10-8	10-9	10-10	10-11	11-1	11-2	11-3	11-4
325.00	12-3	12-4	12-6	12-7	12-9	12-10	13-0	13-1	13-2	13-4
350.00	14-2	14-4	14-6	14-8	14-9	14-11	15-0	15-2	15-4	15-5
375.00	16-4	16-6	16-8	16-10	16-11	17-1	17-3	17-5	17-7	17-9
400.00	18-7	18-9	18-11	19-1	19-4	19-6	19-8	19-10	20-0	20-2
425.00	21-0	21-2	21-5	21-7	21-10	22-0	22-2	22-5	22-7	22-10
450.00	23-6	23-9	24-0	24-3	24-5	24-8	24-11	25-2	25-4	25-7
475.00	26-3	26-6	26-9	27-0	27-3	27-6	27-9	28-0	28-3	28-6
500.00	29-1	29-4	29-8	29-11	30-3	30-6	30-9	31-1	31-4	31-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-8	4-8	4-9	4-10	4-10	4-11	4-11	5-0	5-0	5-1
225.00	5-11	5-11	6-0	6-1	6-2	6-2	6-3	6-4	6-4	6-5
250.00	7-3	7-4	7-5	7-6	7-7	7-8	7-8	7-9	7-10	7-11
275.00	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6	9-7
300.00	10-6	10-7	10-8	10-10	10-11	11-0	11-1	11-2	11-4	11-5
325.00	12-4	12-5	12-7	12-8	12-10	12-11	13-0	13-2	13-3	13-5
350.00	14-3	14-5	14-7	14-9	14-10	15-0	15-1	15-3	15-5	15-6
375.00	16-5	16-7	16-9	16-11	17-1	17-3	17-4	17-6	17-8	17-10
400.00	18-8	18-10	19-1	19-3	19-5	19-7	19-9	19-11	20-1	20-4
425.00	21-1	21-4	21-6	21-9	21-11	22-1	22-4	22-6	22-9	22-11
450.00	23-8	23-11	24-1	24-4	24-7	24-10	25-0	25-3	25-6	25-9
475.00	26-4	26-7	26-11	27-2	27-5	27-8	27-11	28-2	28-5	28-8
500.00	29-3	29-6	29-10	30-1	30-5	30-8	30-11	31-3	31-6	31-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.17

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-3	7-4	7-5	7-5	7-6	7-6	7-7	7-7	7-8	7-8
275.00	8-10	8-11	8-11	9-0	9-1	9-1	9-2	9-2	9-3	9-4
300.00	10-6	10-7	10-8	10-8	10-9	10-10	10-11	10-11	11-0	11-1
325.00	12-4	12-5	12-6	12-7	12-8	12-9	12-9	12-10	12-11	13-0
350.00	14-4	14-5	14-6	14-7	14-8	14-9	14-10	14-11	15-0	15-1
375.00	16-5	16-6	16-8	16-9	16-10	16-11	17-0	17-2	17-3	17-4
400.00	18-8	18-10	18-11	19-1	19-2	19-3	19-5	19-6	19-7	19-9
425.00	21-1	21-3	21-4	21-6	21-8	21-9	21-11	22-0	22-2	22-3
450.00	23-8	23-10	24-0	24-1	24-3	24-5	24-7	24-9	24-10	25-0
475.00	26-5	26-7	26-9	26-11	27-1	27-3	27-5	27-7	27-8	27-10
500.00	29-3	29-5	29-7	29-10	30-0	30-2	30-4	30-6	30-9	30-11
525.00	32-3	32-6	32-8	32-11	33-1	33-3	33-6	33-8	33-11	34-1
550.00	35-5	35-8	35-11	36-1	36-4	36-7	36-9	37-0	37-2	37-5
575.00	38-9	39-0	39-3	39-6	39-9	40-0	40-2	40-5	40-8	40-11
600.00	42-2	42-6	42-9	43-0	43-3	43-6	43-10	44-1	44-4	44-7
625.00	45-10	46-1	46-5	46-8	47-0	47-3	47-7	47-10	48-1	48-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-4	7-4	7-5	7-5	7-6	7-7	7-7	7-8	7-8	7-9
275.00	8-10	8-11	9-0	9-0	9-1	9-2	9-2	9-3	9-4	9-4
300.00	10-6	10-7	10-8	10-9	10-10	10-10	10-11	11-0	11-1	11-2
325.00	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	13-0	13-1
350.00	14-4	14-5	14-6	14-7	14-9	14-10	14-11	15-0	15-1	15-2
375.00	16-6	16-7	16-8	16-10	16-11	17-0	17-1	17-2	17-4	17-5
400.00	18-9	18-11	19-0	19-1	19-3	19-4	19-6	19-7	19-8	19-10
425.00	21-2	21-4	21-5	21-7	21-9	21-10	22-0	22-1	22-3	22-4
450.00	23-9	23-11	24-1	24-3	24-4	24-6	24-8	24-10	24-11	25-1
475.00	26-6	26-8	26-10	27-0	27-2	27-4	27-6	27-8	27-10	28-0
500.00	29-4	29-7	29-9	29-11	30-1	30-3	30-6	30-8	30-10	31-0
525.00	32-5	32-7	32-10	33-0	33-2	33-5	33-7	33-10	34-0	34-2
550.00	35-7	35-9	36-0	36-3	36-6	36-8	36-11	37-1	37-4	37-7
575.00	38-11	39-2	39-5	39-8	39-10	40-1	40-4	40-7	40-10	41-1
600.00	42-4	42-8	42-11	43-2	43-5	43-8	44-0	44-3	44-6	44-9
625.00	46-0	46-3	46-7	46-10	47-2	47-5	47-9	48-0	48-4	48-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.18

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Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.392	0.88	1971	0.87	2000*
25	0	0	0	1.134	0.82	1733	0.8	1783
30	0	0	0	1.134	0.9	1571	0.87	1626
40	0	0	0	1.134	1.07	1327	1.03	1380
50	0	0	0	1.134	1.23	1156	1.18	1202
60	0	0	0	1.134	1.37	1032	1.33	1071
70	0	0	0	1.134	1.51	938	1.46	970
80	0	0	0	1.134	1.64	865	1.59	892
90	0	0	0	1.134	1.76	805	1.71	829
100	0	0	0	1.134	1.88	756	1.83	776
110	0	0	0	1.134	1.99	714	1.94	733
120	0	0	0	1.134	2.05	691	2.04	695
130	0	0	0	1.134	2.11	674	2.11	674
167	0	0	0	1.134	2.3	617	2.3	617
212	0	0	0	1.134	2.53	562	2.52	563

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.392	3.62	1925	3.49	2000*
25	0	0	0	1.134	3.54	1605	3.38	1681
30	0	0	0	1.134	3.65	1556	3.49	1628
40	0	0	0	1.134	3.86	1470	3.7	1534
50	0	0	0	1.134	4.07	1396	3.91	1454
60	0	0	0	1.134	4.27	1332	4.11	1384
70	0	0	0	1.134	4.46	1275	4.3	1322
80	0	0	0	1.134	4.64	1225	4.48	1268
90	0	0	0	1.134	4.82	1180	4.66	1219
100	0	0	0	1.134	4.99	1139	4.84	1175
110	0	0	0	1.134	5.16	1102	5	1136
120	0	0	0	1.134	5.32	1069	5.17	1100
130	0	0	0	1.134	5.48	1038	5.33	1067
167	0	0	0	1.134	5.85	973	5.84	974
212	0	0	0	1.134	6.2	917	6.2	918

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.19

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.392	8.06	1950	7.85	2000*
25	0	0	0	1.134	7.97	1606	7.74	1653
30	0	0	0	1.134	8.08	1583	7.86	1628
40	0	0	0	1.134	8.31	1539	8.09	1582
50	0	0	0	1.134	8.54	1499	8.32	1539
60	0	0	0	1.134	8.76	1461	8.54	1499
70	0	0	0	1.134	8.98	1426	8.75	1462
80	0	0	0	1.134	9.19	1393	8.97	1428
90	0	0	0	1.134	9.4	1363	9.17	1396
100	0	0	0	1.134	9.6	1334	9.38	1366
110	0	0	0	1.134	9.8	1307	9.58	1337
120	0	0	0	1.134	10	1282	9.78	1311
130	0	0	0	1.134	10.19	1258	9.97	1285
167	0	0	0	1.134	10.79	1189	10.66	1203
212	0	0	0	1.134	11.24	1142	11.23	1142

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.392	14.23	1967	13.99	2000*
25	0	0	0	1.134	14.13	1613	13.87	1643
30	0	0	0	1.134	14.26	1599	13.99	1629
40	0	0	0	1.134	14.5	1573	14.23	1601
50	0	0	0	1.134	14.73	1548	14.47	1576
60	0	0	0	1.134	14.96	1524	14.7	1551
70	0	0	0	1.134	15.19	1501	14.93	1527
80	0	0	0	1.134	15.42	1480	15.16	1505
90	0	0	0	1.134	15.64	1459	15.38	1483
100	0	0	0	1.134	15.86	1439	15.6	1462
110	0	0	0	1.134	16.08	1419	15.82	1443
120	0	0	0	1.134	16.3	1401	16.04	1423
130	0	0	0	1.134	16.51	1383	16.25	1405
167	0	0	0	1.134	17.27	1323	17.01	1343
212	0	0	0	1.134	17.79	1285	17.79	1285

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.20

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.392	22.18	1977	21.92	2000*
25	0	0	0	1.134	22.08	1617	21.8	1638
30	0	0	0	1.134	22.21	1608	21.93	1629
40	0	0	0	1.134	22.45	1591	22.17	1611
50	0	0	0	1.134	22.69	1575	22.41	1594
60	0	0	0	1.134	22.93	1558	22.65	1577
70	0	0	0	1.134	23.17	1543	22.89	1561
80	0	0	0	1.134	23.4	1528	23.12	1546
90	0	0	0	1.134	23.64	1513	23.35	1531
100	0	0	0	1.134	23.87	1498	23.58	1516
110	0	0	0	1.134	24.09	1484	23.81	1502
120	0	0	0	1.134	24.32	1471	24.04	1488
130	0	0	0	1.134	24.54	1458	24.26	1475
167	0	0	0	1.134	25.36	1412	25.07	1428
212	0	0	0	1.134	26	1378	26	1378

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 5	0- 6	0- 7	0- 8	0- 9	0-10	0-11	1- 0	1- 0	1- 1
100.00	0- 9	0-10	1- 0	1- 2	1- 4	1- 6	1- 7	1- 9	1-10	1-11
125.00	1- 2	1- 4	1- 7	1-10	2- 1	2- 3	2- 6	2- 8	2-10	3- 0
150.00	1- 7	2- 0	2- 4	2- 8	3- 0	3- 3	3- 7	3-10	4- 1	4- 4
175.00	2- 3	2- 8	3- 2	3- 7	4- 1	4- 6	4-11	5- 3	5- 7	5-11
200.00	2-11	3- 6	4- 1	4- 9	5- 4	5-10	6- 4	6-10	7- 4	7- 9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1
100.00	0-9	0-11	1-1	1-3	1-4	1-6	1-8	1-9	1-11	2-0
125.00	1-2	1-5	1-8	1-11	2-2	2-4	2-7	2-9	2-11	3-1
150.00	1-8	2-0	2-5	2-9	3-1	3-5	3-8	4-0	4-3	4-6
175.00	2-3	2-9	3-3	3-9	4-3	4-8	5-0	5-5	5-9	6-1
200.00	2-11	3-7	4-3	4-11	5-6	6-1	6-7	7-1	7-6	8-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-11
150.00	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-7	2-9	2-10
175.00	2-6	2-8	2-10	3-0	3-2	3-3	3-5	3-7	3-8	3-10
200.00	3-3	3-6	3-8	3-11	4-1	4-4	4-6	4-8	4-10	5-0
225.00	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-11	6-1	6-4
250.00	5-1	5-5	5-9	6-1	6-5	6-9	7-0	7-3	7-7	7-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-11	2-0
150.00	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-9	2-10	2-11
175.00	2-7	2-10	2-11	3-1	3-3	3-5	3-7	3-8	3-10	3-11
200.00	3-5	3-8	3-10	4-1	4-3	4-5	4-8	4-10	5-0	5-2
225.00	4-4	4-7	4-11	5-2	5-5	5-8	5-10	6-1	6-4	6-6
250.00	5-4	5-8	6-0	6-4	6-8	7-0	7-3	7-6	7-10	8-1

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STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.23

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-11	2-0	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-5
175.00	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3
200.00	3-5	3-6	3-7	3-8	3-10	3-11	4-0	4-1	4-2	4-3
225.00	4-3	4-5	4-7	4-8	4-10	4-11	5-0	5-2	5-3	5-5
250.00	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-4	6-6	6-8
275.00	6-5	6-7	6-10	7-0	7-2	7-4	7-6	7-8	7-11	8-1
300.00	7-7	7-10	8-1	8-4	8-6	8-9	9-0	9-2	9-5	9-7
325.00	8-11	9-3	9-6	9-9	10-0	10-3	10-6	10-9	11-0	11-3
350.00	10-4	10-8	11-0	11-4	11-7	11-11	12-3	12-6	12-9	13-1
375.00	11-11	12-3	12-8	13-0	13-4	13-8	14-0	14-4	14-8	15-0

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-0	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-5
175.00	2-8	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-4
200.00	3-6	3-7	3-8	3-10	3-11	4-0	4-1	4-2	4-3	4-4
225.00	4-5	4-7	4-8	4-10	4-11	5-1	5-2	5-3	5-5	5-6
250.00	5-5	5-7	5-9	5-11	6-1	6-3	6-5	6-6	6-8	6-10
275.00	6-7	6-9	7-0	7-2	7-4	7-7	7-9	7-11	8-1	8-3
300.00	7-10	8-1	8-4	8-6	8-9	9-0	9-2	9-5	9-7	9-10
325.00	9-3	9-6	9-9	10-0	10-3	10-6	10-9	11-0	11-3	11-6
350.00	10-8	11-0	11-4	11-8	11-11	12-3	12-6	12-10	13-1	13-4
375.00	12-3	12-8	13-0	13-4	13-8	14-0	14-4	14-8	15-0	15-4

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STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10	3-11	3-11
225.00	4-4	4-5	4-6	4-7	4-8	4-9	4-9	4-10	4-11	5-0
250.00	5-4	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2
275.00	6-6	6-7	6-9	6-10	6-11	7-1	7-2	7-3	7-4	7-6
300.00	7-9	7-10	8-0	8-2	8-3	8-5	8-6	8-8	8-9	8-11
325.00	9-1	9-3	9-5	9-7	9-8	9-10	10-0	10-2	10-4	10-5
350.00	10-6	10-9	10-11	11-1	11-3	11-5	11-7	11-9	11-11	12-1
375.00	12-1	12-4	12-6	12-9	12-11	13-1	13-4	13-6	13-9	13-11
400.00	13-9	14-0	14-3	14-6	14-8	14-11	15-2	15-5	15-7	15-10
425.00	15-6	15-10	16-1	16-4	16-7	16-10	17-1	17-4	17-7	17-10
450.00	17-5	17-9	18-0	18-4	18-7	18-11	19-2	19-6	19-9	20-0
475.00	19-5	19-9	20-1	20-5	20-9	21-1	21-5	21-9	22-0	22-4
500.00	21-6	21-11	22-3	22-8	23-0	23-4	23-9	24-1	24-5	24-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-6	3-7	3-7	3-8	3-9	3-10	3-10	3-11	4-0	4-0
225.00	4-5	4-6	4-7	4-8	4-9	4-10	4-10	4-11	5-0	5-1
250.00	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3
275.00	6-7	6-9	6-10	6-11	7-1	7-2	7-3	7-5	7-6	7-7
300.00	7-11	8-0	8-2	8-3	8-5	8-6	8-8	8-10	8-11	9-0
325.00	9-3	9-5	9-7	9-9	9-10	10-0	10-2	10-4	10-6	10-7
350.00	10-9	10-11	11-1	11-3	11-5	11-8	11-10	12-0	12-2	12-4
375.00	12-4	12-6	12-9	12-11	13-2	13-4	13-7	13-9	13-11	14-2
400.00	14-0	14-3	14-6	14-9	15-0	15-2	15-5	15-8	15-10	16-1
425.00	15-10	16-1	16-4	16-8	16-11	17-2	17-5	17-8	17-11	18-2
450.00	17-9	18-1	18-4	18-8	18-11	19-3	19-6	19-10	20-1	20-4
475.00	19-9	20-1	20-5	20-9	21-1	21-5	21-9	22-1	22-5	22-8
500.00	21-11	22-4	22-8	23-0	23-5	23-9	24-1	24-6	24-10	25-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.25

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-5	5-6	5-6	5-7	5-8	5-9	5-9	5-10	5-11	5-11
275.00	6-7	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-1	7-2
300.00	7-10	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7
325.00	9-2	9-3	9-4	9-5	9-7	9-8	9-9	9-10	9-11	10-1
350.00	10-7	10-9	10-10	11-0	11-1	11-2	11-4	11-5	11-6	11-8
375.00	12-2	12-4	12-5	12-7	12-9	12-10	13-0	13-1	13-3	13-5
400.00	13-10	14-0	14-2	14-4	14-6	14-8	14-9	14-11	15-1	15-3
425.00	15-8	15-10	16-0	16-2	16-4	16-6	16-8	16-10	17-0	17-2
450.00	17-7	17-9	17-11	18-2	18-4	18-6	18-9	18-11	19-1	19-3
475.00	19-7	19-9	20-0	20-3	20-5	20-8	20-10	21-1	21-3	21-6
500.00	21-8	21-11	22-2	22-5	22-8	22-11	23-1	23-4	23-7	23-10
525.00	23-11	24-2	24-5	24-9	25-0	25-3	25-6	25-9	26-0	26-3
550.00	26-3	26-7	26-10	27-2	27-5	27-9	28-0	28-3	28-7	28-10
575.00	28-8	29-0	29-4	29-8	30-0	30-4	30-7	30-11	31-3	31-6
600.00	31-3	31-7	32-0	32-4	32-8	33-0	33-4	33-8	34-0	34-4
625.00	33-11	34-4	34-8	35-1	35-5	35-10	36-2	36-7	36-11	37-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-6	5-6	5-7	5-8	5-9	5-9	5-10	5-11	5-11	6-0
275.00	6-8	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-2	7-3
300.00	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8
325.00	9-3	9-4	9-6	9-7	9-8	9-9	9-10	10-0	10-1	10-2
350.00	10-9	10-10	11-0	11-1	11-3	11-4	11-5	11-7	11-8	11-9
375.00	12-4	12-6	12-7	12-9	12-11	13-0	13-2	13-3	13-5	13-6
400.00	14-0	14-2	14-4	14-6	14-8	14-10	15-0	15-1	15-3	15-5
425.00	15-10	16-0	16-2	16-5	16-7	16-9	16-11	17-1	17-3	17-5
450.00	17-9	18-0	18-2	18-4	18-7	18-9	18-11	19-2	19-4	19-6
475.00	19-10	20-0	20-3	20-6	20-8	20-11	21-1	21-4	21-6	21-9
500.00	22-0	22-2	22-5	22-8	22-11	23-2	23-5	23-8	23-10	24-1
525.00	24-3	24-6	24-9	25-0	25-3	25-7	25-10	26-1	26-4	26-7
550.00	26-7	26-11	27-2	27-6	27-9	28-1	28-4	28-7	28-11	29-2
575.00	29-1	29-5	29-9	30-0	30-4	30-8	31-0	31-3	31-7	31-11
600.00	31-8	32-0	32-4	32-9	33-1	33-5	33-9	34-1	34-5	34-9
625.00	34-4	34-9	35-2	35-6	35-11	36-3	36-8	37-0	37-4	37-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.26

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.392	0.72	2408	0.7	2500*
25	0	0	0	1.134	0.65	2186	0.61	2313
30	0	0	0	1.134	0.73	1947	0.68	2086
40	0	0	0	1.134	0.9	1583	0.83	1714
50	0	0	0	1.134	1.06	1335	0.98	1443
60	0	0	0	1.134	1.22	1162	1.14	1248
70	0	0	0	1.134	1.37	1037	1.28	1105
80	0	0	0	1.134	1.51	942	1.42	997
90	0	0	0	1.134	1.64	867	1.55	913
100	0	0	0	1.134	1.76	807	1.68	846
110	0	0	0	1.134	1.87	758	1.8	791
120	0	0	0	1.134	1.95	730	1.91	745
130	0	0	0	1.134	2	709	2	711
167	0	0	0	1.134	2.2	645	2.19	648
212	0	0	0	1.134	2.43	584	2.42	587

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.392	2.99	2328	2.79	2500*
25	0	0	0	1.134	2.88	1970	2.64	2152
30	0	0	0	1.134	3	1889	2.76	2057
40	0	0	0	1.134	3.25	1749	3	1894
50	0	0	0	1.134	3.48	1633	3.23	1759
60	0	0	0	1.134	3.7	1536	3.45	1646
70	0	0	0	1.134	3.91	1453	3.66	1549
80	0	0	0	1.134	4.11	1381	3.87	1467
90	0	0	0	1.134	4.31	1318	4.07	1395
100	0	0	0	1.134	4.5	1263	4.26	1332
110	0	0	0	1.134	4.68	1214	4.45	1277
120	0	0	0	1.134	4.86	1170	4.63	1227
130	0	0	0	1.134	5.03	1130	4.81	1183
167	0	0	0	1.134	5.43	1048	5.41	1051
212	0	0	0	1.134	5.8	980	5.79	983

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.27

Span = 300 ft

ign Condition Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Final Sag ft	Final Tension lb	Initial Sag ft	Initial Tension lb
25	0	8	0	1.392	6.61	2376	6.28	2500*
25	0	0	0	1.134	6.48	1973	6.1	2093
30	0	0	0	1.134	6.62	1932	6.24	2047
40	0	0	0	1.134	6.89	1856	6.52	1961
50	0	0	0	1.134	7.15	1788	6.78	1885
60	0	0	0	1.134	7.41	1727	7.04	1816
70	0	0	0	1.134	7.65	1671	7.29	1753
80	0	0	0	1.134	7.9	1620	7.54	1696
90	0	0	0	1.134	8.13	1573	7.78	1644
100	0	0	0	1.134	8.36	1530	8.01	1597
110	0	0	0	1.134	8.59	1491	8.24	1553
120	0	0	0	1.134	8.81	1454	8.46	1512
130	0	0	0	1.134	9.02	1419	8.68	1474
167	0	0	0	1.134	9.72	1318	9.45	1355
212	0	0	0	1.134	10.2	1256	10.19	1257

* Design Condition

Span = 400 ft

Design Condition Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Final Sag ft	Final Tension lb	Initial Sag ft	Initial Tension lb
25	0	8	0	1.392	11.57	2414	11.17	2500*
25	0	0	0	1.134	11.44	1989	10.99	2069
30	0	0	0	1.134	11.58	1965	11.14	2042
40	0	0	0	1.134	11.87	1917	11.43	1991
50	0	0	0	1.134	12.15	1873	11.71	1943
60	0	0	0	1.134	12.43	1832	11.99	1898
70	0	0	0	1.134	12.7	1793	12.26	1857
80	0	0	0	1.134	12.96	1757	12.53	1817
90	0	0	0	1.134	13.22	1723	12.79	1780
100	0	0	0	1.134	13.48	1690	13.05	1745
110	0	0	0	1.134	13.73	1659	13.31	1712
120	0	0	0	1.134	13.98	1630	13.56	1681
130	0	0	0	1.134	14.22	1603	13.8	1651
167	0	0	0	1.134	15.09	1511	14.68	1553
212	0	0	0	1.134	15.74	1450	15.69	1454

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.28

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.392	17.94	2439	17.49	2500*
25	0	0	0	1.134	17.79	2002	17.3	2058
30	0	0	0	1.134	17.94	1985	17.45	2040
40	0	0	0	1.134	18.24	1953	17.75	2006
50	0	0	0	1.134	18.53	1923	18.04	1974
60	0	0	0	1.134	18.82	1894	18.33	1943
70	0	0	0	1.134	19.1	1866	18.62	1914
80	0	0	0	1.134	19.38	1839	18.9	1886
90	0	0	0	1.134	19.66	1814	19.18	1859
100	0	0	0	1.134	19.93	1789	19.45	1833
110	0	0	0	1.134	20.2	1766	19.72	1808
120	0	0	0	1.134	20.47	1743	19.99	1784
130	0	0	0	1.134	20.73	1721	20.25	1761
167	0	0	0	1.134	21.68	1647	21.2	1683
212	0	0	0	1.134	22.52	1587	22.31	1601

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.29

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0
100.00	0-7	0-8	0-10	1-0	1-2	1-3	1-5	1-7	1-8	1-10
125.00	0-10	1-1	1-4	1-6	1-9	2-0	2-3	2-5	2-7	2-10
150.00	1-3	1-6	1-10	2-3	2-7	2-11	3-2	3-6	3-9	4-0
175.00	1-8	2-1	2-6	3-0	3-6	3-11	4-4	4-9	5-2	5-6
200.00	2-3	2-9	3-4	3-11	4-7	5-2	5-8	6-3	6-9	7-2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
100.00	0-7	0-9	0-11	1-1	1-3	1-4	1-6	1-8	1-9	1-10
125.00	0-11	1-2	1-5	1-8	1-11	2-2	2-4	2-7	2-9	2-11
150.00	1-4	1-8	2-0	2-5	2-9	3-1	3-5	3-8	3-11	4-3
175.00	1-9	2-3	2-9	3-3	3-9	4-2	4-7	5-0	5-5	5-9
200.00	2-4	2-11	3-7	4-3	4-11	5-6	6-0	6-7	7-0	7-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.30

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1
125.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
150.00	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-3	2-5	2-6
175.00	1-11	2-1	2-4	2-6	2-8	2-10	3-0	3-1	3-3	3-5
200.00	2-6	2-9	3-0	3-3	3-5	3-8	3-10	4-1	4-3	4-5
225.00	3-2	3-6	3-10	4-1	4-4	4-8	4-11	5-2	5-5	5-8
250.00	3-11	4-4	4-8	5-1	5-5	5-9	6-1	6-4	6-8	6-11

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2
125.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
150.00	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-5	2-6	2-8
175.00	2-1	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-5	3-7
200.00	2-9	3-0	3-3	3-6	3-8	3-11	4-1	4-4	4-6	4-8
225.00	3-6	3-10	4-1	4-5	4-8	4-11	5-2	5-5	5-8	5-11
250.00	4-4	4-8	5-1	5-5	5-9	6-1	6-5	6-9	7-0	7-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.31

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11	2-0	2-1
175.00	2-0	2-1	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
200.00	2-8	2-9	2-11	3-0	3-2	3-3	3-4	3-5	3-7	3-8
225.00	3-4	3-6	3-8	3-10	4-0	4-1	4-3	4-4	4-6	4-8
250.00	4-2	4-4	4-6	4-9	4-11	5-1	5-3	5-5	5-7	5-9
275.00	5-0	5-3	5-6	5-8	5-11	6-2	6-4	6-6	6-9	6-11
300.00	6-0	6-3	6-6	6-9	7-0	7-4	7-6	7-9	8-0	8-3
325.00	7-0	7-4	7-8	8-0	8-3	8-7	8-10	9-2	9-5	9-8
350.00	8-1	8-6	8-10	9-3	9-7	9-11	10-3	10-7	10-11	11-3
375.00	9-4	9-9	10-2	10-7	11-0	11-5	11-9	12-2	12-6	12-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-8	1-9	1-9	1-10	1-11	2-0	2-0	2-1	2-2
175.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
200.00	2-10	2-11	3-1	3-2	3-3	3-5	3-6	3-7	3-9	3-10
225.00	3-7	3-9	3-10	4-0	4-2	4-4	4-5	4-7	4-8	4-10
250.00	4-5	4-7	4-9	5-0	5-2	5-4	5-6	5-8	5-10	6-0
275.00	5-4	5-7	5-9	6-0	6-3	6-5	6-8	6-10	7-0	7-3
300.00	6-4	6-7	6-11	7-2	7-5	7-8	7-11	8-2	8-4	8-7
325.00	7-5	7-9	8-1	8-5	8-8	9-0	9-3	9-7	9-10	10-1
350.00	8-8	9-0	9-5	9-9	10-1	10-5	10-9	11-1	11-5	11-8
375.00	9-11	10-4	10-9	11-2	11-7	12-0	12-4	12-9	13-1	13-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.32

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-9	2-9	2-10	2-11	3-0	3-1	3-2	3-2	3-3	3-4
225.00	3-5	3-6	3-7	3-8	3-9	3-11	4-0	4-1	4-2	4-2
250.00	4-3	4-4	4-6	4-7	4-8	4-9	4-11	5-0	5-1	5-2
275.00	5-1	5-3	5-5	5-6	5-8	5-10	5-11	6-1	6-2	6-3
300.00	6-1	6-3	6-5	6-7	6-9	6-11	7-1	7-2	7-4	7-6
325.00	7-2	7-4	7-7	7-9	7-11	8-1	8-3	8-5	8-7	8-9
350.00	8-4	8-6	8-9	9-0	9-2	9-5	9-7	9-9	10-0	10-2
375.00	9-6	9-9	10-1	10-4	10-6	10-9	11-0	11-3	11-6	11-8
400.00	10-10	11-2	11-5	11-9	12-0	12-3	12-6	12-10	13-1	13-4
425.00	12-3	12-7	12-11	13-3	13-6	13-10	14-2	14-5	14-9	15-0
450.00	13-9	14-1	14-6	14-10	15-2	15-6	15-10	16-2	16-6	16-10
475.00	15-4	15-9	16-1	16-6	16-11	17-4	17-8	18-1	18-5	18-9
500.00	16-11	17-5	17-10	18-4	18-9	19-2	19-7	20-0	20-5	20-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-4	3-4	3-5
225.00	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4
250.00	4-5	4-6	4-8	4-9	4-10	4-11	5-1	5-2	5-3	5-4
275.00	5-4	5-6	5-7	5-9	5-10	6-0	6-1	6-3	6-4	6-6
300.00	6-4	6-6	6-8	6-10	7-0	7-2	7-3	7-5	7-7	7-9
325.00	7-5	7-8	7-10	8-0	8-2	8-5	8-7	8-9	8-11	9-1
350.00	8-8	8-10	9-1	9-4	9-6	9-9	9-11	10-1	10-4	10-6
375.00	9-11	10-2	10-5	10-8	10-11	11-2	11-5	11-7	11-10	12-1
400.00	11-3	11-7	11-10	12-2	12-5	12-8	13-0	13-3	13-6	13-9
425.00	12-9	13-1	13-5	13-9	14-0	14-4	14-8	14-11	15-3	15-6
450.00	14-4	14-8	15-0	15-5	15-9	16-1	16-5	16-9	17-1	17-5
475.00	15-11	16-4	16-9	17-2	17-6	17-11	18-3	18-8	19-0	19-5
500.00	17-8	18-1	18-7	19-0	19-5	19-10	20-3	20-8	21-1	21-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.33

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-9	4-10	4-11
275.00	5-2	5-3	5-4	5-5	5-6	5-7	5-9	5-10	5-11	5-11
300.00	6-2	6-3	6-5	6-6	6-7	6-8	6-10	6-11	7-0	7-1
325.00	7-3	7-4	7-6	7-7	7-9	7-10	8-0	8-1	8-3	8-4
350.00	8-5	8-7	8-8	8-10	9-0	9-1	9-3	9-5	9-6	9-8
375.00	9-8	9-10	10-0	10-2	10-4	10-6	10-7	10-9	10-11	11-1
400.00	11-0	11-2	11-4	11-6	11-9	11-11	12-1	12-3	12-5	12-7
425.00	12-5	12-7	12-10	13-0	13-3	13-5	13-8	13-10	14-1	14-3
450.00	13-11	14-2	14-4	14-7	14-10	15-1	15-4	15-6	15-9	16-0
475.00	15-6	15-9	16-0	16-3	16-7	16-10	17-1	17-4	17-7	17-10
500.00	17-2	17-5	17-9	18-1	18-4	18-7	18-11	19-2	19-5	19-9
525.00	18-11	19-3	19-7	19-11	20-3	20-6	20-10	21-2	21-5	21-9
550.00	20-9	21-2	21-6	21-10	22-2	22-6	22-11	23-3	23-7	23-10
575.00	22-8	23-1	23-6	23-11	24-3	24-8	25-0	25-5	25-9	26-1
600.00	24-9	25-2	25-7	26-0	26-5	26-10	27-3	27-8	28-0	28-5
625.00	26-10	27-4	27-9	28-3	28-8	29-1	29-7	30-0	30-5	30-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-5	4-6	4-7	4-8	4-8	4-9	4-10	4-11	5-0	5-1
275.00	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1
300.00	6-4	6-5	6-7	6-8	6-9	6-10	7-0	7-1	7-2	7-3
325.00	7-5	7-7	7-8	7-10	7-11	8-1	8-2	8-4	8-5	8-6
350.00	8-8	8-9	8-11	9-1	9-3	9-4	9-6	9-7	9-9	9-11
375.00	9-11	10-1	10-3	10-5	10-7	10-9	10-11	11-1	11-2	11-4
400.00	11-3	11-6	11-8	11-10	12-0	12-3	12-5	12-7	12-9	12-11
425.00	12-9	12-11	13-2	13-5	13-7	13-10	14-0	14-2	14-5	14-7
450.00	14-3	14-6	14-9	15-0	15-3	15-6	15-8	15-11	16-2	16-4
475.00	15-11	16-2	16-5	16-9	17-0	17-3	17-6	17-9	18-0	18-3
500.00	17-8	17-11	18-3	18-6	18-10	19-1	19-5	19-8	19-11	20-2
525.00	19-5	19-9	20-1	20-5	20-9	21-1	21-4	21-8	22-0	22-3
550.00	21-4	21-9	22-1	22-5	22-9	23-1	23-6	23-10	24-2	24-5
575.00	23-4	23-9	24-2	24-6	24-11	25-3	25-8	26-0	26-5	26-9
600.00	25-5	25-10	26-3	26-8	27-1	27-6	27-11	28-4	28-9	29-1
625.00	27-7	28-1	28-6	29-0	29-5	29-11	30-4	30-9	31-2	31-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.34

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.392	0.62	2830	0.58	3000*
25	0	0	0	1.134	0.54	2636	0.5	2849
30	0	0	0	1.134	0.61	2333	0.55	2573
40	0	0	0	1.134	0.77	1851	0.68	2092
50	0	0	0	1.134	0.93	1517	0.83	1718
60	0	0	0	1.134	1.1	1290	0.98	1446
70	0	0	0	1.134	1.26	1130	1.13	1250
80	0	0	0	1.134	1.4	1013	1.28	1106
90	0	0	0	1.134	1.54	923	1.42	998
100	0	0	0	1.134	1.66	852	1.55	914
110	0	0	0	1.134	1.78	795	1.68	846
120	0	0	0	1.134	1.86	764	1.79	791
130	0	0	0	1.134	1.92	741	1.91	745
167	0	0	0	1.134	2.12	670	2.11	674
212	0	0	0	1.134	2.35	603	2.34	607

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.392	2.58	2702	2.32	3000*
25	0	0	0	1.134	2.44	2325	2.14	2652
30	0	0	0	1.134	2.57	2206	2.26	2510
40	0	0	0	1.134	2.83	2005	2.51	2264
50	0	0	0	1.134	3.08	1844	2.75	2063
60	0	0	0	1.134	3.32	1712	2.99	1899
70	0	0	0	1.134	3.54	1602	3.22	1763
80	0	0	0	1.134	3.76	1509	3.44	1649
90	0	0	0	1.134	3.97	1430	3.66	1552
100	0	0	0	1.134	4.17	1361	3.86	1469
110	0	0	0	1.134	4.37	1301	4.06	1397
120	0	0	0	1.134	4.55	1248	4.26	1334
130	0	0	0	1.134	4.73	1200	4.44	1278
167	0	0	0	1.134	5.15	1104	5.09	1118
212	0	0	0	1.134	5.54	1028	5.52	1030

* Design Condition

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SHEET 35 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.35

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.392	5.67	2767	5.23	3000*
25	0	0	0	1.134	5.5	2321	5	2555
30	0	0	0	1.134	5.66	2258	5.15	2479
40	0	0	0	1.134	5.96	2144	5.45	2342
50	0	0	0	1.134	6.25	2045	5.75	2223
60	0	0	0	1.134	6.53	1957	6.04	2117
70	0	0	0	1.134	6.81	1878	6.31	2024
80	0	0	0	1.134	7.07	1808	6.59	1941
90	0	0	0	1.134	7.33	1745	6.85	1866
100	0	0	0	1.134	7.58	1687	7.11	1799
110	0	0	0	1.134	7.82	1635	7.36	1738
120	0	0	0	1.134	8.06	1587	7.6	1683
130	0	0	0	1.134	8.29	1543	7.84	1632
167	0	0	0	1.134	9.05	1414	8.67	1476
212	0	0	0	1.134	9.55	1341	9.54	1342

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.392	9.87	2829	9.3	3000*
25	0	0	0	1.134	9.69	2347	9.05	2511
30	0	0	0	1.134	9.85	2308	9.22	2465
40	0	0	0	1.134	10.18	2234	9.55	2380
50	0	0	0	1.134	10.49	2167	9.87	2303
60	0	0	0	1.134	10.81	2105	10.19	2232
70	0	0	0	1.134	11.11	2048	10.5	2167
80	0	0	0	1.134	11.41	1995	10.8	2107
90	0	0	0	1.134	11.7	1946	11.09	2051
100	0	0	0	1.134	11.98	1900	11.38	1999
110	0	0	0	1.134	12.26	1857	11.67	1951
120	0	0	0	1.134	12.53	1817	11.95	1905
130	0	0	0	1.134	12.8	1779	12.22	1863
167	0	0	0	1.134	13.75	1657	13.19	1727
212	0	0	0	1.134	14.48	1574	14.29	1595

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.36

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.392	15.2	2873	14.55	3000*
25	0	0	0	1.134	15.01	2370	14.29	2488
30	0	0	0	1.134	15.18	2343	14.47	2458
40	0	0	0	1.134	15.52	2292	14.81	2401
50	0	0	0	1.134	15.86	2244	15.15	2348
60	0	0	0	1.134	16.18	2199	15.48	2298
70	0	0	0	1.134	16.51	2156	15.81	2250
80	0	0	0	1.134	16.83	2116	16.13	2206
90	0	0	0	1.134	17.14	2077	16.45	2164
100	0	0	0	1.134	17.45	2041	16.76	2124
110	0	0	0	1.134	17.75	2007	17.07	2086
120	0	0	0	1.134	18.05	1974	17.37	2050
130	0	0	0	1.134	18.34	1942	17.67	2016
167	0	0	0	1.134	19.4	1838	18.73	1902
212	0	0	0	1.134	20.38	1750	19.96	1786

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11
100.00	0-5	0-7	0-8	0-10	1-0	1-2	1-3	1-5	1-7	1-8
125.00	0-8	0-10	1-1	1-3	1-6	1-9	2-0	2-3	2-5	2-7
150.00	1-0	1-3	1-6	1-10	2-2	2-7	2-11	3-2	3-6	3-9
175.00	1-5	1-8	2-1	2-6	3-0	3-6	3-11	4-4	4-9	5-2
200.00	1-10	2-2	2-9	3-4	3-11	4-7	5-2	5-8	6-3	6-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
100.00	0-6	0-7	0-9	0-11	1-1	1-3	1-5	1-6	1-8	1-9
125.00	0-9	0-11	1-2	1-6	1-9	2-0	2-2	2-5	2-7	2-9
150.00	1-1	1-4	1-9	2-1	2-6	2-10	3-2	3-6	3-9	4-0
175.00	1-5	1-10	2-4	2-10	3-4	3-10	4-4	4-9	5-1	5-6
200.00	1-11	2-5	3-1	3-9	4-5	5-0	5-7	6-2	6-8	7-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.38

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-0
125.00	0-9	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
150.00	1-2	1-3	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-3
175.00	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-10	3-0	3-1
200.00	2-0	2-3	2-6	2-9	3-0	3-3	3-5	3-8	3-10	4-1
225.00	2-7	2-10	3-2	3-6	3-9	4-1	4-4	4-8	4-11	5-2
250.00	3-2	3-6	3-11	4-4	4-8	5-0	5-5	5-9	6-0	6-4

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-8	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-1
125.00	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-7	1-8	1-8
150.00	1-4	1-5	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-5
175.00	1-9	2-0	2-2	2-4	2-6	2-9	2-11	3-0	3-2	3-4
200.00	2-4	2-7	2-10	3-1	3-4	3-7	3-9	4-0	4-2	4-4
225.00	2-11	3-3	3-7	3-11	4-2	4-6	4-9	5-0	5-3	5-6
250.00	3-7	4-0	4-5	4-10	5-2	5-6	5-11	6-2	6-6	6-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.39

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10
175.00	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5	2-6
200.00	2-2	2-3	2-5	2-7	2-8	2-10	2-11	3-1	3-2	3-3
225.00	2-9	2-11	3-1	3-3	3-5	3-7	3-8	3-10	4-0	4-2
250.00	3-4	3-7	3-9	4-0	4-2	4-5	4-7	4-9	4-11	5-1
275.00	4-1	4-4	4-7	4-10	5-1	5-4	5-6	5-9	6-0	6-2
300.00	4-10	5-2	5-5	5-9	6-0	6-4	6-7	6-10	7-1	7-4
325.00	5-8	6-1	6-5	6-9	7-1	7-5	7-9	8-0	8-4	8-8
350.00	6-7	7-0	7-5	7-10	8-3	8-7	9-0	9-4	9-8	10-0
375.00	7-7	8-1	8-6	9-0	9-5	9-10	10-4	10-8	11-1	11-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11
175.00	1-10	1-11	2-0	2-2	2-3	2-4	2-5	2-6	2-7	2-8
200.00	2-5	2-6	2-8	2-9	2-11	3-0	3-2	3-3	3-4	3-6
225.00	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-1	4-3	4-5
250.00	3-9	3-11	4-2	4-4	4-6	4-9	4-11	5-1	5-3	5-5
275.00	4-6	4-9	5-0	5-3	5-6	5-9	5-11	6-2	6-4	6-7
300.00	5-4	5-8	6-0	6-3	6-6	6-10	7-1	7-4	7-7	7-10
325.00	6-3	6-8	7-0	7-4	7-8	8-0	8-4	8-7	8-11	9-2
350.00	7-3	7-8	8-1	8-6	8-11	9-3	9-8	10-0	10-4	10-8
375.00	8-4	8-10	9-4	9-9	10-3	10-8	11-1	11-5	11-10	12-3

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STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.40

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-3	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10	2-11
225.00	2-10	2-11	3-0	3-1	3-3	3-4	3-5	3-6	3-7	3-8
250.00	3-6	3-7	3-9	3-10	4-0	4-1	4-3	4-4	4-5	4-7
275.00	4-2	4-4	4-6	4-8	4-10	5-0	5-1	5-3	5-5	5-6
300.00	5-0	5-2	5-4	5-7	5-9	5-11	6-1	6-3	6-5	6-7
325.00	5-10	6-1	6-4	6-6	6-9	6-11	7-2	7-4	7-6	7-8
350.00	6-10	7-1	7-4	7-7	7-10	8-0	8-3	8-6	8-9	8-11
375.00	7-10	8-1	8-5	8-8	8-11	9-3	9-6	9-9	10-0	10-3
400.00	8-11	9-3	9-7	9-10	10-2	10-6	10-10	11-1	11-5	11-8
425.00	10-0	10-5	10-9	11-2	11-6	11-10	12-2	12-6	12-10	13-2
450.00	11-3	11-8	12-1	12-6	12-11	13-3	13-8	14-1	14-5	14-9
475.00	12-6	13-0	13-6	13-11	14-4	14-10	15-3	15-8	16-1	16-6
500.00	13-11	14-5	14-11	15-5	15-11	16-5	16-11	17-4	17-10	18-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-5	2-6	2-7	2-7	2-8	2-9	2-10	2-11	3-0	3-1
225.00	3-0	3-1	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-11
250.00	3-9	3-10	4-0	4-1	4-3	4-4	4-5	4-7	4-8	4-9
275.00	4-6	4-8	4-10	4-11	5-1	5-3	5-5	5-6	5-8	5-9
300.00	5-4	5-6	5-9	5-11	6-1	6-3	6-5	6-7	6-9	6-11
325.00	6-3	6-6	6-9	6-11	7-2	7-4	7-6	7-9	7-11	8-1
350.00	7-3	7-6	7-9	8-0	8-3	8-6	8-9	8-11	9-2	9-5
375.00	8-4	8-8	8-11	9-3	9-6	9-9	10-0	10-3	10-6	10-9
400.00	9-6	9-10	10-2	10-6	10-10	11-1	11-5	11-8	12-0	12-3
425.00	10-9	11-1	11-6	11-10	12-2	12-7	12-11	13-2	13-6	13-10
450.00	12-1	12-6	12-11	13-3	13-8	14-1	14-5	14-10	15-2	15-6
475.00	13-5	13-11	14-4	14-10	15-3	15-8	16-1	16-6	16-11	17-4
500.00	14-11	15-5	15-11	16-5	16-11	17-4	17-10	18-3	18-9	19-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.41

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3
275.00	4-3	4-4	4-6	4-7	4-8	4-9	4-11	5-0	5-1	5-2
300.00	5-1	5-2	5-4	5-5	5-7	5-8	5-10	5-11	6-0	6-2
325.00	6-0	6-1	6-3	6-5	6-6	6-8	6-10	6-11	7-1	7-2
350.00	6-11	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-2	8-4
375.00	7-11	8-2	8-4	8-6	8-8	8-11	9-1	9-3	9-5	9-7
400.00	9-0	9-3	9-6	9-8	9-11	10-1	10-4	10-6	10-9	10-11
425.00	10-2	10-5	10-8	10-11	11-2	11-5	11-8	11-11	12-1	12-4
450.00	11-5	11-9	12-0	12-3	12-6	12-10	13-1	13-4	13-7	13-10
475.00	12-9	13-1	13-4	13-8	14-0	14-3	14-7	14-10	15-1	15-5
500.00	14-1	14-6	14-10	15-2	15-6	15-10	16-2	16-5	16-9	17-1
525.00	15-7	15-11	16-4	16-8	17-1	17-5	17-9	18-2	18-6	18-10
550.00	17-1	17-6	17-11	18-4	18-9	19-2	19-6	19-11	20-3	20-8
575.00	18-8	19-2	19-7	20-1	20-6	20-11	21-4	21-9	22-2	22-7
600.00	20-4	20-10	21-4	21-10	22-4	22-9	23-3	23-8	24-2	24-7
625.00	22-1	22-7	23-2	23-8	24-3	24-9	25-3	25-9	26-3	26-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-8	3-9	3-11	4-0	4-1	4-1	4-2	4-3	4-4	4-5
275.00	4-6	4-7	4-8	4-10	4-11	5-0	5-1	5-2	5-3	5-4
300.00	5-4	5-6	5-7	5-8	5-10	5-11	6-1	6-2	6-3	6-5
325.00	6-3	6-5	6-7	6-8	6-10	7-0	7-1	7-3	7-4	7-6
350.00	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-6	8-8
375.00	8-4	8-6	8-9	8-11	9-1	9-3	9-5	9-8	9-10	10-0
400.00	9-6	9-9	9-11	10-2	10-4	10-7	10-9	11-0	11-2	11-4
425.00	10-9	11-0	11-3	11-5	11-8	11-11	12-2	12-5	12-7	12-10
450.00	12-0	12-4	12-7	12-10	13-1	13-4	13-7	13-11	14-2	14-4
475.00	13-5	13-8	14-0	14-4	14-7	14-11	15-2	15-6	15-9	16-0
500.00	14-10	15-2	15-6	15-10	16-2	16-6	16-10	17-2	17-5	17-9
525.00	16-4	16-9	17-1	17-6	17-10	18-2	18-7	18-11	19-3	19-7
550.00	17-11	18-4	18-9	19-2	19-7	20-0	20-4	20-9	21-1	21-6
575.00	19-7	20-1	20-6	21-0	21-5	21-10	22-3	22-8	23-1	23-6
600.00	21-4	21-10	22-4	22-10	23-4	23-9	24-3	24-8	25-2	25-7
625.00	23-2	23-9	24-3	24-10	25-4	25-10	26-4	26-10	27-3	27-9

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SHEET 42 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.42

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	2.461	3.09	1000	3.09	1000*
0.0	0.00	0.00	0.00	1.134	3.04	468	3.03	470
30.0	0.00	0.00	0.00	1.134	3.26	437	3.25	439
40.0	0.00	0.00	0.00	1.134	3.32	428	3.31	430
50.0	0.00	0.00	0.00	1.134	3.39	420	3.38	422
60.0	0.00	0.00	0.00	1.134	3.45	413	3.44	414
70.0	0.00	0.00	0.00	1.134	3.52	405	3.50	406
80.0	0.00	0.00	0.00	1.134	3.57	400	3.57	400
90.0	0.00	0.00	0.00	1.134	3.61	394	3.61	394
100.0	0.00	0.00	0.00	1.134	3.65	390	3.65	390
110.0	0.00	0.00	0.00	1.134	3.69	387	3.69	387
120.0	0.00	0.00	0.00	1.134	3.72	383	3.72	383
130.0	0.00	0.00	0.00	1.134	3.76	380	3.76	380
167.0	0.00	0.00	0.00	1.134	3.88	367	3.88	367
212.0	0.00	0.00	0.00	1.134	4.03	354	4.03	354

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	2.461	12.50	1000	12.50	1000*
0.0	0.00	0.00	0.00	1.134	12.45	463	12.44	463
30.0	0.00	0.00	0.00	1.134	12.67	455	12.66	455
40.0	0.00	0.00	0.00	1.134	12.74	452	12.73	453
50.0	0.00	0.00	0.00	1.134	12.81	450	12.80	450
60.0	0.00	0.00	0.00	1.134	12.88	448	12.87	448
70.0	0.00	0.00	0.00	1.134	12.95	445	12.94	446
80.0	0.00	0.00	0.00	1.134	13.01	443	13.01	443
90.0	0.00	0.00	0.00	1.134	13.07	441	13.07	441
100.0	0.00	0.00	0.00	1.134	13.12	440	13.12	440
110.0	0.00	0.00	0.00	1.134	13.16	438	13.16	438
120.0	0.00	0.00	0.00	1.134	13.20	437	13.20	437
130.0	0.00	0.00	0.00	1.134	13.24	436	13.24	436
167.0	0.00	0.00	0.00	1.134	13.39	431	13.39	431
212.0	0.00	0.00	0.00	1.134	13.57	425	13.57	425

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.43

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	2.461	28.70	1000	28.70	1000*
0.0	0.00	0.00	0.00	1.134	28.65	462	28.64	462
30.0	0.00	0.00	0.00	1.134	28.88	458	28.87	458
40.0	0.00	0.00	0.00	1.134	28.95	457	28.94	457
50.0	0.00	0.00	0.00	1.134	29.02	456	29.01	456
60.0	0.00	0.00	0.00	1.134	29.09	455	29.08	455
70.0	0.00	0.00	0.00	1.134	29.16	454	29.15	454
80.0	0.00	0.00	0.00	1.134	29.23	453	29.22	453
90.0	0.00	0.00	0.00	1.134	29.29	452	29.29	452
100.0	0.00	0.00	0.00	1.134	29.33	452	29.33	452
110.0	0.00	0.00	0.00	1.134	29.38	451	29.38	451
120.0	0.00	0.00	0.00	1.134	29.42	450	29.42	450
130.0	0.00	0.00	0.00	1.134	29.46	450	29.46	450
167.0	0.00	0.00	0.00	1.134	29.62	448	29.62	448
212.0	0.00	0.00	0.00	1.134	29.81	445	29.81	445

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	2.461	52.65	1000	52.65	1000*
0.0	0.00	0.00	0.00	1.134	52.60	461	52.59	461
30.0	0.00	0.00	0.00	1.134	52.82	459	52.81	460
40.0	0.00	0.00	0.00	1.134	52.89	459	52.88	459
50.0	0.00	0.00	0.00	1.134	52.96	458	52.95	458
60.0	0.00	0.00	0.00	1.134	53.04	458	53.02	458
70.0	0.00	0.00	0.00	1.134	53.11	457	53.09	457
80.0	0.00	0.00	0.00	1.134	53.17	457	53.16	457
90.0	0.00	0.00	0.00	1.134	53.23	456	53.23	456
100.0	0.00	0.00	0.00	1.134	53.28	456	53.28	456
110.0	0.00	0.00	0.00	1.134	53.33	456	53.33	456
120.0	0.00	0.00	0.00	1.134	53.37	455	53.37	455
130.0	0.00	0.00	0.00	1.134	53.41	455	53.41	455
167.0	0.00	0.00	0.00	1.134	53.57	454	53.57	454
212.0	0.00	0.00	0.00	1.134	53.76	453	53.76	453

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.44

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	2.461	86.11	1000	86.11	1000*
0.0	0.00	0.00	0.00	1.134	86.06	461	86.05	461
30.0	0.00	0.00	0.00	1.134	86.28	460	86.27	460
40.0	0.00	0.00	0.00	1.134	86.35	460	86.34	460
50.0	0.00	0.00	0.00	1.134	86.42	459	86.41	460
60.0	0.00	0.00	0.00	1.134	86.49	459	86.48	459
70.0	0.00	0.00	0.00	1.134	86.57	459	86.55	459
80.0	0.00	0.00	0.00	1.134	86.63	459	86.62	459
90.0	0.00	0.00	0.00	1.134	86.69	458	86.69	458
100.0	0.00	0.00	0.00	1.134	86.74	458	86.74	458
110.0	0.00	0.00	0.00	1.134	86.79	458	86.79	458
120.0	0.00	0.00	0.00	1.134	86.83	458	86.83	458
130.0	0.00	0.00	0.00	1.134	86.87	458	86.87	458
167.0	0.00	0.00	0.00	1.134	87.03	457	87.03	457
212.0	0.00	0.00	0.00	1.134	87.22	456	87.22	456

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.45

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-9	1-10	1-10	1-11	1-11	2-0	2-0	2-0	2-1	2-1
100.00	3-2	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-8
125.00	5-0	5-1	5-2	5-3	5-5	5-6	5-7	5-8	5-9	5-9
150.00	7-2	7-4	7-6	7-7	7-9	7-11	8-0	8-2	8-3	8-4
175.00	9-9	10-0	10-2	10-5	10-7	10-9	11-0	11-1	11-3	11-4
200.00	12-9	13-0	13-4	13-7	13-10	14-1	14-4	14-6	14-8	14-10

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-10	1-10	1-10	1-11	1-11	2-0	2-0	2-0	2-1	2-1
100.00	3-2	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-8
125.00	5-0	5-1	5-2	5-4	5-5	5-6	5-7	5-8	5-9	5-9
150.00	7-2	7-4	7-6	7-8	7-9	7-11	8-0	8-2	8-3	8-4
175.00	9-9	10-0	10-2	10-5	10-7	10-10	11-0	11-1	11-3	11-4
200.00	12-10	13-1	13-4	13-7	13-11	14-2	14-4	14-6	14-8	14-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.46

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-2	3-2	3-2	3-2	3-2	3-3	3-3	3-3	3-3	3-3
125.00	4-11	4-11	4-11	5-0	5-0	5-0	5-1	5-1	5-1	5-1
150.00	7-1	7-1	7-2	7-2	7-3	7-3	7-4	7-4	7-4	7-5
175.00	9-8	9-8	9-9	9-9	9-10	9-11	9-11	10-0	10-0	10-1
200.00	12-7	12-8	12-9	12-10	12-10	12-11	13-0	13-1	13-1	13-2
225.00	15-11	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8	16-8
250.00	19-9	19-10	19-11	20-1	20-2	20-3	20-5	20-6	20-7	20-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-2	3-2	3-2	3-2	3-2	3-3	3-3	3-3	3-3	3-3
125.00	4-11	4-11	5-0	5-0	5-0	5-0	5-1	5-1	5-1	5-1
150.00	7-1	7-1	7-2	7-2	7-3	7-3	7-4	7-4	7-4	7-5
175.00	9-8	9-8	9-9	9-10	9-10	9-11	9-11	10-0	10-0	10-1
200.00	12-7	12-8	12-9	12-10	12-11	12-11	13-0	13-1	13-1	13-2
225.00	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8	16-8
250.00	19-9	19-10	20-0	20-1	20-2	20-4	20-5	20-6	20-7	20-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.47

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-2	7-2	7-2	7-2	7-2	7-3	7-3	7-3	7-3	7-3
175.00	9-9	9-9	9-9	9-10	9-10	9-10	9-10	9-11	9-11	9-11
200.00	12-9	12-9	12-9	12-10	12-10	12-10	12-11	12-11	12-11	13-0
225.00	16-1	16-2	16-2	16-3	16-3	16-4	16-4	16-5	16-5	16-5
250.00	19-11	20-0	20-0	20-1	20-1	20-2	20-3	20-3	20-4	20-4
275.00	24-2	24-3	24-3	24-4	24-5	24-5	24-6	24-7	24-7	24-8
300.00	28-10	28-10	28-11	29-0	29-1	29-2	29-3	29-3	29-4	29-5
325.00	33-10	33-11	34-0	34-1	34-2	34-3	34-4	34-5	34-6	34-7
350.00	39-4	39-6	39-7	39-8	39-9	39-10	39-11	40-0	40-1	40-2
375.00	45-4	45-5	45-6	45-8	45-9	45-10	46-0	46-1	46-2	46-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-2	7-2	7-2	7-2	7-2	7-3	7-3	7-3	7-3	7-3
175.00	9-9	9-9	9-9	9-10	9-10	9-10	9-10	9-11	9-11	9-11
200.00	12-9	12-9	12-9	12-10	12-10	12-10	12-11	12-11	12-11	13-0
225.00	16-1	16-2	16-2	16-3	16-3	16-4	16-4	16-5	16-5	16-5
250.00	19-11	20-0	20-0	20-1	20-2	20-2	20-3	20-3	20-4	20-4
275.00	24-2	24-3	24-3	24-4	24-5	24-5	24-6	24-7	24-7	24-8
300.00	28-10	28-11	28-11	29-0	29-1	29-2	29-3	29-3	29-4	29-5
325.00	33-11	34-0	34-1	34-2	34-3	34-4	34-4	34-5	34-6	34-7
350.00	39-5	39-6	39-7	39-8	39-9	39-10	39-11	40-0	40-1	40-2
375.00	45-4	45-5	45-6	45-8	45-9	45-11	46-0	46-1	46-2	46-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.48

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	13-0	13-0	13-0	13-0	13-0	13-1	13-1	13-1	13-1	13-1
225.00	16-5	16-6	16-6	16-6	16-6	16-7	16-7	16-7	16-7	16-7
250.00	20-4	20-4	20-5	20-5	20-5	20-6	20-6	20-6	20-6	20-7
275.00	24-8	24-8	24-8	24-9	24-9	24-10	24-10	24-10	24-11	24-11
300.00	29-5	29-5	29-6	29-6	29-6	29-7	29-7	29-8	29-8	29-8
325.00	34-7	34-7	34-8	34-8	34-9	34-9	34-10	34-11	34-11	34-11
350.00	40-2	40-3	40-3	40-4	40-5	40-5	40-6	40-7	40-7	40-7
375.00	46-3	46-4	46-4	46-5	46-6	46-6	46-7	46-8	46-8	46-9
400.00	52-9	52-10	52-11	52-11	53-0	53-1	53-2	53-3	53-3	53-4
425.00	59-9	59-9	59-10	59-11	60-0	60-1	60-2	60-3	60-4	60-5
450.00	67-2	67-3	67-4	67-5	67-6	67-7	67-8	67-9	67-10	67-11
475.00	75-1	75-2	75-3	75-4	75-6	75-7	75-8	75-9	75-10	75-11
500.00	83-5	83-7	83-8	83-9	83-11	84-0	84-1	84-3	84-4	84-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	13-0	13-0	13-0	13-0	13-0	13-1	13-1	13-1	13-1	13-1
225.00	16-5	16-6	16-6	16-6	16-6	16-7	16-7	16-7	16-7	16-7
250.00	20-4	20-4	20-5	20-5	20-5	20-6	20-6	20-6	20-6	20-7
275.00	24-8	24-8	24-9	24-9	24-9	24-10	24-10	24-10	24-11	24-11
300.00	29-5	29-5	29-6	29-6	29-7	29-7	29-7	29-8	29-8	29-8
325.00	34-7	34-7	34-8	34-8	34-9	34-10	34-10	34-11	34-11	34-11
350.00	40-2	40-3	40-3	40-4	40-5	40-5	40-6	40-7	40-7	40-7
375.00	46-3	46-4	46-4	46-5	46-6	46-7	46-7	46-8	46-8	46-9
400.00	52-9	52-10	52-11	53-0	53-0	53-1	53-2	53-3	53-3	53-4
425.00	59-9	59-10	59-11	60-0	60-1	60-1	60-2	60-3	60-4	60-5
450.00	67-2	67-3	67-4	67-5	67-6	67-7	67-8	67-9	67-10	67-11
475.00	75-1	75-2	75-3	75-4	75-6	75-7	75-8	75-9	75-10	75-11
500.00	83-5	83-7	83-8	83-10	83-11	84-0	84-2	84-3	84-4	84-5

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SHEET 49 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.49

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	21-0	21-0	21-0	21-0	21-0	21-1	21-1	21-1	21-1	21-1
275.00	25-5	25-5	25-5	25-6	25-6	25-6	25-6	25-7	25-7	25-7
300.00	30-4	30-4	30-4	30-5	30-5	30-5	30-5	30-6	30-6	30-6
325.00	35-8	35-8	35-9	35-9	35-9	35-10	35-10	35-10	35-10	35-11
350.00	41-5	41-6	41-6	41-7	41-7	41-7	41-8	41-8	41-9	41-9
375.00	47-9	47-9	47-10	47-10	47-10	47-11	47-11	48-0	48-0	48-0
400.00	54-5	54-6	54-6	54-7	54-7	54-8	54-8	54-9	54-9	54-10
425.00	61-8	61-8	61-9	61-10	61-10	61-11	61-11	62-0	62-0	62-1
450.00	69-4	69-5	69-5	69-6	69-7	69-7	69-8	69-9	69-9	69-10
475.00	77-6	77-7	77-8	77-9	77-9	77-10	77-11	78-0	78-0	78-1
500.00	86-2	86-3	86-4	86-5	86-6	86-7	86-7	86-8	86-9	86-9
525.00	95-5	95-6	95-7	95-8	95-8	95-9	95-10	95-11	96-0	96-1
550.00	105-1	105-2	105-3	105-4	105-5	105-7	105-8	105-9	105-9	105-10
575.00	115-4	115-5	115-7	115-8	115-9	115-10	115-11	116-0	116-1	116-2
600.00	126-2	126-3	126-4	126-6	126-7	126-8	126-9	126-11	126-11	127-0
625.00	137-6	137-7	137-9	137-10	137-11	138-1	138-2	138-4	138-5	138-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	21-0	21-0	21-0	21-0	21-0	21-1	21-1	21-1	21-1	21-1
275.00	25-5	25-5	25-6	25-6	25-6	25-6	25-6	25-7	25-7	25-7
300.00	30-4	30-4	30-4	30-5	30-5	30-5	30-6	30-6	30-6	30-6
325.00	35-8	35-8	35-9	35-9	35-9	35-10	35-10	35-10	35-10	35-11
350.00	41-6	41-6	41-6	41-7	41-7	41-8	41-8	41-8	41-9	41-9
375.00	47-9	47-9	47-10	47-10	47-11	47-11	47-11	48-0	48-0	48-0
400.00	54-5	54-6	54-6	54-7	54-8	54-8	54-9	54-9	54-9	54-10
425.00	61-8	61-9	61-9	61-10	61-10	61-11	61-11	62-0	62-0	62-1
450.00	69-4	69-5	69-6	69-6	69-7	69-8	69-8	69-9	69-9	69-10
475.00	77-6	77-7	77-8	77-9	77-9	77-10	77-11	78-0	78-0	78-1
500.00	86-3	86-3	86-4	86-5	86-6	86-7	86-8	86-8	86-9	86-9
525.00	95-5	95-6	95-7	95-8	95-9	95-10	95-10	95-11	96-0	96-1
550.00	105-1	105-2	105-4	105-5	105-6	105-7	105-8	105-9	105-9	105-10
575.00	115-4	115-6	115-7	115-8	115-9	115-10	115-11	116-0	116-1	116-2
600.00	126-2	126-3	126-4	126-6	126-7	126-8	126-9	126-11	126-11	127-0
625.00	137-6	137-7	137-9	137-10	138-0	138-1	138-2	138-4	138-5	138-5

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SHEET 50 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.50

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	2.461	2.05	1500	2.05	1500*
0.0	0.00	0.00	0.00	1.134	1.96	724	1.94	733
30.0	0.00	0.00	0.00	1.134	2.27	627	2.24	633
40.0	0.00	0.00	0.00	1.134	2.36	602	2.34	608
50.0	0.00	0.00	0.00	1.134	2.45	580	2.43	585
60.0	0.00	0.00	0.00	1.134	2.54	560	2.51	565
70.0	0.00	0.00	0.00	1.134	2.62	542	2.60	547
80.0	0.00	0.00	0.00	1.134	2.70	526	2.68	531
90.0	0.00	0.00	0.00	1.134	2.77	514	2.76	515
100.0	0.00	0.00	0.00	1.134	2.83	502	2.83	502
110.0	0.00	0.00	0.00	1.134	2.88	495	2.88	495
120.0	0.00	0.00	0.00	1.134	2.92	487	2.92	487
130.0	0.00	0.00	0.00	1.134	2.96	480	2.96	480
167.0	0.00	0.00	0.00	1.134	3.12	457	3.12	457
212.0	0.00	0.00	0.00	1.134	3.30	432	3.30	432

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	2.461	8.26	1500	8.26	1500*
0.0	0.00	0.00	0.00	1.134	8.16	699	8.14	701
30.0	0.00	0.00	0.00	1.134	8.49	673	8.46	675
40.0	0.00	0.00	0.00	1.134	8.59	665	8.56	667
50.0	0.00	0.00	0.00	1.134	8.69	657	8.67	659
60.0	0.00	0.00	0.00	1.134	8.79	650	8.77	652
70.0	0.00	0.00	0.00	1.134	8.89	643	8.87	645
80.0	0.00	0.00	0.00	1.134	8.99	636	8.96	638
90.0	0.00	0.00	0.00	1.134	9.09	629	9.06	631
100.0	0.00	0.00	0.00	1.134	9.18	623	9.16	624
110.0	0.00	0.00	0.00	1.134	9.25	618	9.25	618
120.0	0.00	0.00	0.00	1.134	9.32	614	9.32	614
130.0	0.00	0.00	0.00	1.134	9.38	610	9.38	610
167.0	0.00	0.00	0.00	1.134	9.58	597	9.58	597
212.0	0.00	0.00	0.00	1.134	9.83	583	9.83	583

* Design Condition

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SHEET 51 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.51

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	2.461	18.75	1500	18.75	1500*
0.0	0.00	0.00	0.00	1.134	18.65	695	18.63	696
30.0	0.00	0.00	0.00	1.134	18.97	683	18.95	684
40.0	0.00	0.00	0.00	1.134	19.08	679	19.06	680
50.0	0.00	0.00	0.00	1.134	19.19	676	19.16	677
60.0	0.00	0.00	0.00	1.134	19.29	672	19.26	673
70.0	0.00	0.00	0.00	1.134	19.39	669	19.37	670
80.0	0.00	0.00	0.00	1.134	19.50	665	19.47	666
90.0	0.00	0.00	0.00	1.134	19.60	662	19.57	663
100.0	0.00	0.00	0.00	1.134	19.70	659	19.67	660
110.0	0.00	0.00	0.00	1.134	19.77	656	19.77	656
120.0	0.00	0.00	0.00	1.134	19.87	653	19.87	653
130.0	0.00	0.00	0.00	1.134	19.93	651	19.93	651
167.0	0.00	0.00	0.00	1.134	20.15	644	20.15	644
212.0	0.00	0.00	0.00	1.134	20.42	636	20.42	636

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	2.461	33.75	1500	33.75	1500*
0.0	0.00	0.00	0.00	1.134	33.65	693	33.63	694
30.0	0.00	0.00	0.00	1.134	33.98	687	33.96	687
40.0	0.00	0.00	0.00	1.134	34.09	685	34.06	685
50.0	0.00	0.00	0.00	1.134	34.19	683	34.17	683
60.0	0.00	0.00	0.00	1.134	34.30	681	34.27	681
70.0	0.00	0.00	0.00	1.134	34.40	679	34.38	679
80.0	0.00	0.00	0.00	1.134	34.51	677	34.48	677
90.0	0.00	0.00	0.00	1.134	34.61	675	34.58	675
100.0	0.00	0.00	0.00	1.134	34.72	673	34.69	674
110.0	0.00	0.00	0.00	1.134	34.79	672	34.79	672
120.0	0.00	0.00	0.00	1.134	34.89	670	34.89	670
130.0	0.00	0.00	0.00	1.134	34.96	669	34.96	669
167.0	0.00	0.00	0.00	1.134	35.19	665	35.19	665
212.0	0.00	0.00	0.00	1.134	35.47	660	35.47	660

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.52

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	2.461	53.64	1500	53.64	1500*
0.0	0.00	0.00	0.00	1.134	53.54	692	53.52	693
30.0	0.00	0.00	0.00	1.134	53.87	688	53.85	689
40.0	0.00	0.00	0.00	1.134	53.98	687	53.95	688
50.0	0.00	0.00	0.00	1.134	54.08	686	54.06	686
60.0	0.00	0.00	0.00	1.134	54.19	685	54.16	685
70.0	0.00	0.00	0.00	1.134	54.29	684	54.27	684
80.0	0.00	0.00	0.00	1.134	54.40	682	54.37	683
90.0	0.00	0.00	0.00	1.134	54.51	681	54.48	682
100.0	0.00	0.00	0.00	1.134	54.61	680	54.58	680
110.0	0.00	0.00	0.00	1.134	54.69	679	54.69	679
120.0	0.00	0.00	0.00	1.134	54.79	678	54.79	678
130.0	0.00	0.00	0.00	1.134	54.86	677	54.86	677
167.0	0.00	0.00	0.00	1.134	55.10	675	55.10	675
212.0	0.00	0.00	0.00	1.134	55.38	671	55.38	671

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.53

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-3	1-4	1-4	1-5	1-6	1-6	1-7	1-7	1-7
100.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
125.00	3-4	3-6	3-8	3-10	3-11	4-1	4-2	4-4	4-5	4-6
150.00	4-10	5-1	5-3	5-6	5-8	5-10	6-0	6-3	6-5	6-6
175.00	6-7	6-11	7-2	7-5	7-9	8-0	8-3	8-6	8-8	8-10
200.00	8-7	9-0	9-4	9-9	10-1	10-5	10-9	11-1	11-4	11-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-3	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-7
100.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
125.00	3-5	3-7	3-8	3-10	4-0	4-1	4-3	4-4	4-5	4-6
150.00	4-11	5-1	5-4	5-6	5-9	5-11	6-1	6-3	6-5	6-6
175.00	6-8	6-11	7-3	7-6	7-9	8-0	8-4	8-6	8-8	8-10
200.00	8-8	9-1	9-6	9-10	10-2	10-6	10-10	11-1	11-4	11-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.54

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-1	2-1	2-2	2-2	2-2	2-3	2-3	2-3	2-3	2-4
125.00	3-3	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-7	3-7
150.00	4-8	4-9	4-10	4-10	4-11	5-0	5-0	5-1	5-2	5-2
175.00	6-5	6-6	6-7	6-8	6-8	6-9	6-10	6-11	7-0	7-1
200.00	8-4	8-6	8-7	8-8	8-9	8-10	9-0	9-1	9-2	9-3
225.00	10-7	10-9	10-10	11-0	11-1	11-3	11-4	11-6	11-7	11-9
250.00	13-1	13-3	13-5	13-7	13-9	13-10	14-0	14-2	14-4	14-6

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-1	2-1	2-2	2-2	2-2	2-3	2-3	2-3	2-3	2-4
125.00	3-3	3-4	3-4	3-5	3-5	3-6	3-6	3-7	3-7	3-7
150.00	4-9	4-9	4-10	4-11	4-11	5-0	5-1	5-1	5-2	5-2
175.00	6-5	6-6	6-7	6-8	6-9	6-10	6-11	6-11	7-0	7-1
200.00	8-5	8-6	8-7	8-8	8-9	8-11	9-0	9-1	9-2	9-3
225.00	10-7	10-9	10-11	11-0	11-2	11-3	11-5	11-6	11-7	11-9
250.00	13-1	13-3	13-5	13-7	13-9	13-11	14-1	14-3	14-4	14-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.55

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-8	4-9	4-9	4-9	4-10	4-10	4-10	4-10	4-11	4-11
175.00	6-5	6-5	6-6	6-6	6-6	6-7	6-7	6-8	6-8	6-8
200.00	8-4	8-5	8-5	8-6	8-6	8-7	8-8	8-8	8-9	8-9
225.00	10-7	10-8	10-8	10-9	10-10	10-10	10-11	11-0	11-0	11-1
250.00	13-1	13-2	13-3	13-3	13-4	13-5	13-6	13-7	13-8	13-8
275.00	15-10	15-11	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-7
300.00	18-10	18-11	19-1	19-2	19-3	19-4	19-6	19-7	19-8	19-9
325.00	22-2	22-3	22-5	22-6	22-8	22-9	22-10	23-0	23-1	23-3
350.00	25-8	25-10	26-0	26-2	26-3	26-5	26-7	26-8	26-10	27-0
375.00	29-6	29-8	29-10	30-0	30-2	30-4	30-6	30-8	30-10	31-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-8	4-9	4-9	4-9	4-10	4-10	4-10	4-11	4-11	4-11
175.00	6-5	6-5	6-6	6-6	6-6	6-7	6-7	6-8	6-8	6-8
200.00	8-4	8-5	8-5	8-6	8-7	8-7	8-8	8-8	8-9	8-9
225.00	10-7	10-8	10-8	10-9	10-10	10-11	10-11	11-0	11-1	11-1
250.00	13-1	13-2	13-3	13-4	13-4	13-5	13-6	13-7	13-8	13-8
275.00	15-10	15-11	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-7
300.00	18-10	19-0	19-1	19-2	19-3	19-5	19-6	19-7	19-8	19-9
325.00	22-2	22-3	22-5	22-6	22-8	22-9	22-11	23-0	23-2	23-3
350.00	25-9	25-11	26-0	26-2	26-4	26-5	26-7	26-9	26-10	27-0
375.00	29-7	29-9	29-11	30-1	30-3	30-5	30-7	30-9	30-11	31-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.56

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-5	8-5	8-5	8-6	8-6	8-6	8-7	8-7	8-7	8-8
225.00	10-8	10-8	10-8	10-9	10-9	10-10	10-10	10-10	10-11	10-11
250.00	13-2	13-2	13-3	13-3	13-4	13-4	13-5	13-5	13-6	13-6
275.00	15-11	16-0	16-0	16-1	16-1	16-2	16-3	16-3	16-4	16-4
300.00	19-0	19-0	19-1	19-2	19-2	19-3	19-4	19-4	19-5	19-6
325.00	22-3	22-4	22-5	22-6	22-7	22-7	22-8	22-9	22-10	22-11
350.00	25-10	25-11	26-0	26-1	26-2	26-3	26-4	26-5	26-6	26-7
375.00	29-9	29-10	29-11	30-0	30-1	30-2	30-3	30-4	30-5	30-7
400.00	33-10	33-11	34-1	34-2	34-3	34-5	34-6	34-7	34-8	34-9
425.00	38-3	38-5	38-6	38-7	38-9	38-10	39-0	39-1	39-3	39-4
450.00	42-11	43-1	43-3	43-4	43-6	43-7	43-9	43-11	44-0	44-2
475.00	47-11	48-1	48-3	48-4	48-6	48-8	48-10	49-0	49-1	49-3
500.00	53-2	53-4	53-6	53-8	53-10	54-0	54-2	54-4	54-6	54-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-5	8-5	8-6	8-6	8-6	8-6	8-7	8-7	8-7	8-8
225.00	10-8	10-8	10-9	10-9	10-9	10-10	10-10	10-11	10-11	10-11
250.00	13-2	13-2	13-3	13-3	13-4	13-4	13-5	13-5	13-6	13-6
275.00	15-11	16-0	16-0	16-1	16-2	16-2	16-3	16-3	16-4	16-4
300.00	19-0	19-0	19-1	19-2	19-3	19-3	19-4	19-5	19-5	19-6
325.00	22-3	22-4	22-5	22-6	22-7	22-8	22-8	22-9	22-10	22-11
350.00	25-11	25-11	26-0	26-1	26-2	26-3	26-4	26-5	26-6	26-7
375.00	29-9	29-10	29-11	30-0	30-1	30-2	30-4	30-5	30-6	30-7
400.00	33-10	34-0	34-1	34-2	34-4	34-5	34-6	34-7	34-9	34-10
425.00	38-3	38-5	38-6	38-8	38-9	38-11	39-0	39-1	39-3	39-4
450.00	43-0	43-1	43-3	43-5	43-6	43-8	43-9	43-11	44-1	44-2
475.00	47-11	48-1	48-3	48-5	48-7	48-8	48-10	49-0	49-2	49-3
500.00	53-2	53-5	53-7	53-9	53-11	54-1	54-3	54-5	54-7	54-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.57

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	13-3	13-4	13-4	13-4	13-5	13-5	13-5	13-6	13-6	13-6
275.00	16-1	16-1	16-2	16-2	16-3	16-3	16-3	16-4	16-4	16-4
300.00	19-2	19-2	19-3	19-3	19-4	19-4	19-5	19-5	19-5	19-6
325.00	22-6	22-7	22-7	22-8	22-8	22-9	22-9	22-10	22-10	22-11
350.00	26-2	26-2	26-3	26-3	26-4	26-5	26-5	26-6	26-6	26-7
375.00	30-0	30-1	30-2	30-2	30-3	30-4	30-5	30-5	30-6	30-7
400.00	34-3	34-3	34-4	34-5	34-6	34-7	34-7	34-8	34-9	34-10
425.00	38-8	38-9	38-10	38-11	39-0	39-1	39-1	39-2	39-3	39-4
450.00	43-5	43-6	43-7	43-8	43-9	43-10	43-11	44-0	44-1	44-2
475.00	48-5	48-6	48-7	48-9	48-10	48-11	49-0	49-1	49-2	49-3
500.00	53-9	53-10	53-11	54-1	54-2	54-3	54-4	54-6	54-7	54-8
525.00	59-4	59-5	59-7	59-8	59-10	59-11	60-0	60-2	60-3	60-5
550.00	65-3	65-4	65-6	65-7	65-9	65-10	66-0	66-2	66-3	66-5
575.00	71-5	71-7	71-8	71-10	72-0	72-1	72-3	72-5	72-7	72-8
600.00	77-11	78-1	78-2	78-4	78-6	78-8	78-10	79-0	79-2	79-3
625.00	84-8	84-10	85-0	85-2	85-4	85-6	85-8	85-10	86-0	86-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	13-3	13-4	13-4	13-4	13-5	13-5	13-5	13-6	13-6	13-6
275.00	16-1	16-2	16-2	16-2	16-3	16-3	16-3	16-4	16-4	16-4
300.00	19-2	19-2	19-3	19-3	19-4	19-4	19-5	19-5	19-6	19-6
325.00	22-6	22-7	22-7	22-8	22-8	22-9	22-9	22-10	22-10	22-11
350.00	26-2	26-2	26-3	26-4	26-4	26-5	26-5	26-6	26-7	26-7
375.00	30-1	30-1	30-2	30-3	30-3	30-4	30-5	30-5	30-6	30-7
400.00	34-3	34-3	34-4	34-5	34-6	34-7	34-8	34-8	34-9	34-10
425.00	38-8	38-9	38-10	38-11	39-0	39-1	39-2	39-3	39-3	39-4
450.00	43-5	43-6	43-7	43-8	43-9	43-10	43-11	44-0	44-1	44-2
475.00	48-5	48-7	48-8	48-9	48-10	48-11	49-0	49-1	49-3	49-3
500.00	53-9	53-10	54-0	54-1	54-2	54-4	54-5	54-6	54-7	54-8
525.00	59-4	59-6	59-7	59-9	59-10	59-11	60-1	60-2	60-4	60-5
550.00	65-3	65-5	65-6	65-8	65-9	65-11	66-0	66-2	66-4	66-5
575.00	71-5	71-7	71-9	71-10	72-0	72-2	72-4	72-5	72-7	72-8
600.00	77-11	78-1	78-3	78-5	78-7	78-8	78-10	79-0	79-2	79-4
625.00	84-9	84-11	85-1	85-3	85-5	85-7	85-9	85-11	86-1	86-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.58

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	2.461	1.54	2000	1.54	2000*
0.0	0.00	0.00	0.00	1.134	1.39	1024	1.35	1051
30.0	0.00	0.00	0.00	1.134	1.77	801	1.73	819
40.0	0.00	0.00	0.00	1.134	1.89	753	1.85	768
50.0	0.00	0.00	0.00	1.134	2.00	712	1.96	726
60.0	0.00	0.00	0.00	1.134	2.10	677	2.06	689
70.0	0.00	0.00	0.00	1.134	2.20	646	2.16	657
80.0	0.00	0.00	0.00	1.134	2.29	619	2.26	630
90.0	0.00	0.00	0.00	1.134	2.39	595	2.35	605
100.0	0.00	0.00	0.00	1.134	2.45	581	2.44	583
110.0	0.00	0.00	0.00	1.134	2.51	565	2.51	565
120.0	0.00	0.00	0.00	1.134	2.56	555	2.56	555
130.0	0.00	0.00	0.00	1.134	2.61	545	2.61	545
167.0	0.00	0.00	0.00	1.134	2.78	512	2.78	512
212.0	0.00	0.00	0.00	1.134	2.97	478	2.97	478

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	2.461	6.18	2000	6.18	2000*
0.0	0.00	0.00	0.00	1.134	6.02	946	5.98	952
30.0	0.00	0.00	0.00	1.134	6.43	885	6.39	891
40.0	0.00	0.00	0.00	1.134	6.57	867	6.52	873
50.0	0.00	0.00	0.00	1.134	6.70	850	6.65	856
60.0	0.00	0.00	0.00	1.134	6.83	834	6.78	840
70.0	0.00	0.00	0.00	1.134	6.95	819	6.91	825
80.0	0.00	0.00	0.00	1.134	7.08	805	7.03	810
90.0	0.00	0.00	0.00	1.134	7.20	792	7.15	797
100.0	0.00	0.00	0.00	1.134	7.32	779	7.27	784
110.0	0.00	0.00	0.00	1.134	7.44	766	7.39	771
120.0	0.00	0.00	0.00	1.134	7.52	758	7.51	759
130.0	0.00	0.00	0.00	1.134	7.62	748	7.62	748
167.0	0.00	0.00	0.00	1.134	7.87	725	7.87	725
212.0	0.00	0.00	0.00	1.134	8.16	700	8.16	700

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.59

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	2.461	13.96	2000	13.96	2000*
0.0	0.00	0.00	0.00	1.134	13.80	932	13.76	935
30.0	0.00	0.00	0.00	1.134	14.23	905	14.18	908
40.0	0.00	0.00	0.00	1.134	14.36	896	14.32	899
50.0	0.00	0.00	0.00	1.134	14.50	888	14.46	891
60.0	0.00	0.00	0.00	1.134	14.64	880	14.59	882
70.0	0.00	0.00	0.00	1.134	14.77	872	14.73	875
80.0	0.00	0.00	0.00	1.134	14.91	864	14.86	867
90.0	0.00	0.00	0.00	1.134	15.04	857	14.99	859
100.0	0.00	0.00	0.00	1.134	15.17	850	15.12	852
110.0	0.00	0.00	0.00	1.134	15.30	842	15.25	845
120.0	0.00	0.00	0.00	1.134	15.43	836	15.38	838
130.0	0.00	0.00	0.00	1.134	15.52	831	15.51	831
167.0	0.00	0.00	0.00	1.134	15.84	814	15.84	814
212.0	0.00	0.00	0.00	1.134	16.17	798	16.17	798

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	2.461	24.99	2000	24.99	2000*
0.0	0.00	0.00	0.00	1.134	24.83	927	24.79	929
30.0	0.00	0.00	0.00	1.134	25.26	912	25.22	914
40.0	0.00	0.00	0.00	1.134	25.40	907	25.36	909
50.0	0.00	0.00	0.00	1.134	25.54	903	25.50	904
60.0	0.00	0.00	0.00	1.134	25.68	898	25.63	899
70.0	0.00	0.00	0.00	1.134	25.82	893	25.77	895
80.0	0.00	0.00	0.00	1.134	25.96	889	25.91	890
90.0	0.00	0.00	0.00	1.134	26.09	884	26.04	886
100.0	0.00	0.00	0.00	1.134	26.23	880	26.18	881
110.0	0.00	0.00	0.00	1.134	26.36	875	26.31	877
120.0	0.00	0.00	0.00	1.134	26.50	871	26.45	873
130.0	0.00	0.00	0.00	1.134	26.61	867	26.58	868
167.0	0.00	0.00	0.00	1.134	26.95	857	26.95	857
212.0	0.00	0.00	0.00	1.134	27.31	846	27.31	846

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	2.461	39.41	2000	39.41	2000*
0.0	0.00	0.00	0.00	1.134	39.25	925	39.21	926
30.0	0.00	0.00	0.00	1.134	39.68	916	39.63	917
40.0	0.00	0.00	0.00	1.134	39.82	913	39.77	914
50.0	0.00	0.00	0.00	1.134	39.96	910	39.91	911
60.0	0.00	0.00	0.00	1.134	40.10	907	40.05	908
70.0	0.00	0.00	0.00	1.134	40.24	904	40.19	905
80.0	0.00	0.00	0.00	1.134	40.38	901	40.33	902
90.0	0.00	0.00	0.00	1.134	40.52	898	40.47	899
100.0	0.00	0.00	0.00	1.134	40.66	895	40.61	896
110.0	0.00	0.00	0.00	1.134	40.79	892	40.74	893
120.0	0.00	0.00	0.00	1.134	40.93	889	40.88	890
130.0	0.00	0.00	0.00	1.134	41.06	886	41.02	887
167.0	0.00	0.00	0.00	1.134	41.41	879	41.41	879
212.0	0.00	0.00	0.00	1.134	41.78	872	41.78	872

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.61

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	1-0	1-0	1-1	1-2	1-3	1-3	1-4	1-4	1-5
100.00	1-7	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5	2-6
125.00	2-6	2-9	2-11	3-1	3-3	3-5	3-6	3-8	3-10	3-11
150.00	3-8	3-11	4-2	4-5	4-8	4-10	5-1	5-3	5-6	5-8
175.00	4-11	5-4	5-8	6-0	6-4	6-8	6-11	7-2	7-6	7-9
200.00	6-5	6-11	7-5	7-10	8-3	8-8	9-1	9-5	9-9	10-1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-5
100.00	1-8	1-9	1-11	2-0	2-1	2-2	2-4	2-5	2-5	2-6
125.00	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9	3-10	3-11
150.00	3-9	4-0	4-3	4-6	4-9	4-11	5-2	5-4	5-6	5-8
175.00	5-1	5-5	5-9	6-1	6-5	6-9	7-0	7-4	7-6	7-9
200.00	6-7	7-1	7-7	8-0	8-5	8-10	9-2	9-7	9-10	10-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.62

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-7	1-7	1-8	1-8	1-8	1-9	1-9	1-9	1-10	1-10
125.00	2-5	2-6	2-7	2-7	2-8	2-8	2-9	2-10	2-10	2-11
150.00	3-6	3-7	3-8	3-9	3-10	3-11	3-11	4-0	4-1	4-2
175.00	4-9	4-11	5-0	5-1	5-2	5-3	5-5	5-6	5-7	5-8
200.00	6-3	6-5	6-6	6-8	6-9	6-11	7-0	7-2	7-3	7-5
225.00	7-11	8-1	8-3	8-5	8-7	8-9	8-11	9-1	9-3	9-4
250.00	9-9	10-0	10-2	10-5	10-7	10-10	11-0	11-2	11-5	11-7

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-7	1-7	1-8	1-8	1-8	1-9	1-9	1-10	1-10	1-10
125.00	2-5	2-6	2-7	2-7	2-8	2-9	2-9	2-10	2-10	2-11
150.00	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-1	4-2
175.00	4-10	4-11	5-0	5-2	5-3	5-4	5-5	5-6	5-7	5-8
200.00	6-4	6-5	6-7	6-8	6-10	6-11	7-1	7-2	7-4	7-5
225.00	8-0	8-2	8-4	8-6	8-8	8-10	9-0	9-1	9-3	9-5
250.00	9-10	10-1	10-3	10-6	10-8	10-10	11-1	11-3	11-5	11-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.63

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-6	3-6	3-7	3-7	3-8	3-8	3-8	3-9	3-9	3-10
175.00	4-9	4-10	4-10	4-11	4-11	5-0	5-1	5-1	5-2	5-2
200.00	6-3	6-4	6-4	6-5	6-6	6-6	6-7	6-8	6-9	6-9
225.00	7-11	8-0	8-1	8-1	8-2	8-3	8-4	8-5	8-6	8-7
250.00	9-9	9-10	9-11	10-0	10-1	10-3	10-4	10-5	10-6	10-7
275.00	11-10	11-11	12-0	12-2	12-3	12-4	12-6	12-7	12-8	12-10
300.00	14-1	14-2	14-4	14-5	14-7	14-9	14-10	15-0	15-1	15-3
325.00	16-6	16-8	16-10	17-0	17-2	17-4	17-5	17-7	17-9	17-11
350.00	19-2	19-4	19-6	19-8	19-11	20-1	20-3	20-5	20-7	20-9
375.00	22-0	22-2	22-5	22-8	22-10	23-1	23-3	23-6	23-8	23-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-6	3-7	3-7	3-7	3-8	3-8	3-9	3-9	3-9	3-10
175.00	4-9	4-10	4-11	4-11	5-0	5-0	5-1	5-1	5-2	5-2
200.00	6-3	6-4	6-4	6-5	6-6	6-7	6-7	6-8	6-9	6-9
225.00	7-11	8-0	8-1	8-2	8-3	8-4	8-4	8-5	8-6	8-7
250.00	9-9	9-10	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7
275.00	11-10	11-11	12-1	12-2	12-4	12-5	12-6	12-8	12-9	12-10
300.00	14-1	14-3	14-4	14-6	14-8	14-9	14-11	15-0	15-2	15-4
325.00	16-6	16-8	16-10	17-0	17-2	17-4	17-6	17-8	17-10	18-0
350.00	19-2	19-5	19-7	19-9	19-11	20-2	20-4	20-6	20-8	20-10
375.00	22-1	22-3	22-6	22-8	22-11	23-1	23-4	23-7	23-9	23-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.64

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-3	6-3	6-4	6-4	6-5	6-5	6-5	6-6	6-6	6-7
225.00	7-11	7-11	8-0	8-0	8-1	8-1	8-2	8-3	8-3	8-4
250.00	9-9	9-10	9-10	9-11	10-0	10-0	10-1	10-2	10-2	10-3
275.00	11-10	11-11	11-11	12-0	12-1	12-2	12-3	12-3	12-4	12-5
300.00	14-1	14-2	14-3	14-4	14-5	14-6	14-6	14-7	14-8	14-9
325.00	16-6	16-7	16-9	16-10	16-11	17-0	17-1	17-2	17-3	17-4
350.00	19-2	19-3	19-5	19-6	19-7	19-8	19-10	19-11	20-0	20-1
375.00	22-0	22-2	22-3	22-5	22-6	22-8	22-9	22-10	23-0	23-1
400.00	25-1	25-3	25-4	25-6	25-8	25-9	25-11	26-1	26-2	26-4
425.00	28-4	28-6	28-8	28-10	29-0	29-1	29-3	29-5	29-7	29-9
450.00	31-9	32-0	32-2	32-4	32-6	32-8	32-10	33-0	33-2	33-4
475.00	35-5	35-8	35-10	36-0	36-3	36-5	36-7	36-10	37-0	37-2
500.00	39-4	39-6	39-9	39-11	40-2	40-5	40-7	40-10	41-0	41-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-3	6-3	6-4	6-4	6-5	6-5	6-6	6-6	6-6	6-7
225.00	7-11	8-0	8-0	8-1	8-1	8-2	8-2	8-3	8-3	8-4
250.00	9-9	9-10	9-11	9-11	10-0	10-1	10-1	10-2	10-3	10-3
275.00	11-10	11-11	12-0	12-0	12-1	12-2	12-3	12-4	12-4	12-5
300.00	14-1	14-2	14-3	14-4	14-5	14-6	14-7	14-8	14-9	14-10
325.00	16-7	16-8	16-9	16-10	16-11	17-0	17-1	17-2	17-3	17-4
350.00	19-2	19-4	19-5	19-6	19-8	19-9	19-10	19-11	20-1	20-2
375.00	22-1	22-2	22-4	22-5	22-7	22-8	22-10	22-11	23-0	23-2
400.00	25-1	25-3	25-5	25-6	25-8	25-10	25-11	26-1	26-3	26-4
425.00	28-5	28-6	28-8	28-10	29-0	29-2	29-4	29-6	29-8	29-9
450.00	31-10	32-0	32-2	32-4	32-7	32-9	32-11	33-1	33-3	33-5
475.00	35-6	35-8	35-11	36-1	36-4	36-6	36-8	36-11	37-1	37-3
500.00	39-4	39-7	39-10	40-0	40-3	40-6	40-8	40-11	41-1	41-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.65

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-10	9-10	9-11	9-11	9-11	10-0	10-0	10-1	10-1	10-1
275.00	11-11	11-11	12-0	12-0	12-1	12-1	12-2	12-2	12-3	12-3
300.00	14-2	14-2	14-3	14-4	14-4	14-5	14-5	14-6	14-6	14-7
325.00	16-7	16-8	16-9	16-9	16-10	16-11	16-11	17-0	17-1	17-2
350.00	19-3	19-4	19-5	19-6	19-7	19-7	19-8	19-9	19-10	19-11
375.00	22-2	22-3	22-4	22-4	22-5	22-6	22-7	22-8	22-9	22-10
400.00	25-2	25-3	25-5	25-6	25-7	25-8	25-9	25-10	25-11	26-0
425.00	28-6	28-7	28-8	28-9	28-10	29-0	29-1	29-2	29-3	29-4
450.00	31-11	32-1	32-2	32-3	32-5	32-6	32-7	32-9	32-10	32-11
475.00	35-7	35-9	35-10	36-0	36-1	36-3	36-4	36-6	36-7	36-9
500.00	39-6	39-8	39-9	39-11	40-1	40-2	40-4	40-6	40-7	40-9
525.00	43-7	43-9	43-11	44-1	44-2	44-4	44-6	44-8	44-10	45-0
550.00	47-10	48-0	48-3	48-5	48-7	48-9	48-11	49-1	49-3	49-5
575.00	52-4	52-7	52-9	52-11	53-1	53-4	53-6	53-8	53-10	54-0
600.00	57-1	57-3	57-6	57-8	57-11	58-1	58-4	58-6	58-8	58-11
625.00	62-0	62-3	62-5	62-8	62-11	63-1	63-4	63-6	63-9	64-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-10	9-10	9-11	9-11	10-0	10-0	10-0	10-1	10-1	10-2
275.00	11-11	11-11	12-0	12-0	12-1	12-1	12-2	12-2	12-3	12-3
300.00	14-2	14-2	14-3	14-4	14-4	14-5	14-5	14-6	14-7	14-7
325.00	16-7	16-8	16-9	16-10	16-10	16-11	17-0	17-0	17-1	17-2
350.00	19-3	19-4	19-5	19-6	19-7	19-8	19-8	19-9	19-10	19-11
375.00	22-2	22-3	22-4	22-5	22-6	22-7	22-8	22-8	22-9	22-10
400.00	25-3	25-4	25-5	25-6	25-7	25-8	25-9	25-10	25-11	26-0
425.00	28-6	28-7	28-8	28-10	28-11	29-0	29-1	29-2	29-4	29-5
450.00	32-0	32-1	32-2	32-4	32-5	32-6	32-8	32-9	32-11	33-0
475.00	35-8	35-9	35-11	36-0	36-2	36-3	36-5	36-6	36-8	36-9
500.00	39-6	39-8	39-10	40-0	40-1	40-3	40-5	40-6	40-8	40-10
525.00	43-7	43-9	43-11	44-1	44-3	44-5	44-7	44-9	44-10	45-0
550.00	47-11	48-1	48-3	48-5	48-7	48-9	48-11	49-1	49-3	49-5
575.00	52-5	52-7	52-10	53-0	53-2	53-4	53-7	53-9	53-11	54-1
600.00	57-2	57-4	57-7	57-9	57-11	58-2	58-4	58-7	58-9	59-0
625.00	62-1	62-3	62-6	62-9	62-11	63-2	63-5	63-7	63-10	64-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.66

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	2.461	1.23	2500	1.23	2500*
0.0	0.00	0.00	0.00	1.134	1.01	1410	0.96	1479
30.0	0.00	0.00	0.00	1.134	1.46	972	1.40	1012
40.0	0.00	0.00	0.00	1.134	1.59	891	1.53	925
50.0	0.00	0.00	0.00	1.134	1.72	827	1.66	855
60.0	0.00	0.00	0.00	1.134	1.83	774	1.78	798
70.0	0.00	0.00	0.00	1.134	1.95	730	1.89	751
80.0	0.00	0.00	0.00	1.134	2.05	692	2.00	711
90.0	0.00	0.00	0.00	1.134	2.15	660	2.10	676
100.0	0.00	0.00	0.00	1.134	2.24	635	2.20	646
110.0	0.00	0.00	0.00	1.134	2.29	620	2.29	620
120.0	0.00	0.00	0.00	1.134	2.35	603	2.35	603
130.0	0.00	0.00	0.00	1.134	2.40	591	2.40	591
167.0	0.00	0.00	0.00	1.134	2.58	550	2.58	550
212.0	0.00	0.00	0.00	1.134	2.79	510	2.79	510

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	2.461	4.93	2500	4.93	2500*
0.0	0.00	0.00	0.00	1.134	4.69	1213	4.62	1229
30.0	0.00	0.00	0.00	1.134	5.20	1093	5.13	1107
40.0	0.00	0.00	0.00	1.134	5.36	1061	5.30	1074
50.0	0.00	0.00	0.00	1.134	5.52	1031	5.45	1043
60.0	0.00	0.00	0.00	1.134	5.67	1003	5.61	1015
70.0	0.00	0.00	0.00	1.134	5.82	977	5.75	989
80.0	0.00	0.00	0.00	1.134	5.97	953	5.90	964
90.0	0.00	0.00	0.00	1.134	6.11	931	6.04	942
100.0	0.00	0.00	0.00	1.134	6.25	911	6.18	921
110.0	0.00	0.00	0.00	1.134	6.39	891	6.32	901
120.0	0.00	0.00	0.00	1.134	6.52	873	6.45	882
130.0	0.00	0.00	0.00	1.134	6.62	860	6.59	865
167.0	0.00	0.00	0.00	1.134	6.92	823	6.92	823
212.0	0.00	0.00	0.00	1.134	7.24	787	7.24	787

* Design Condition

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SHEET 67 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.67

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	2.461	11.14	2500	11.14	2500*
0.0	0.00	0.00	0.00	1.134	10.88	1178	10.82	1185
30.0	0.00	0.00	0.00	1.134	11.41	1124	11.34	1131
40.0	0.00	0.00	0.00	1.134	11.58	1108	11.51	1115
50.0	0.00	0.00	0.00	1.134	11.75	1092	11.68	1099
60.0	0.00	0.00	0.00	1.134	11.92	1077	11.85	1084
70.0	0.00	0.00	0.00	1.134	12.08	1063	12.01	1069
80.0	0.00	0.00	0.00	1.134	12.24	1049	12.17	1055
90.0	0.00	0.00	0.00	1.134	12.40	1036	12.33	1042
100.0	0.00	0.00	0.00	1.134	12.56	1023	12.48	1029
110.0	0.00	0.00	0.00	1.134	12.71	1011	12.64	1016
120.0	0.00	0.00	0.00	1.134	12.87	999	12.79	1004
130.0	0.00	0.00	0.00	1.134	13.02	987	12.94	993
167.0	0.00	0.00	0.00	1.134	13.43	957	13.43	957
212.0	0.00	0.00	0.00	1.134	13.82	931	13.82	931

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	2.461	19.89	2499	19.88	2500*
0.0	0.00	0.00	0.00	1.134	19.64	1166	19.57	1170
30.0	0.00	0.00	0.00	1.134	20.17	1136	20.09	1140
40.0	0.00	0.00	0.00	1.134	20.35	1126	20.27	1131
50.0	0.00	0.00	0.00	1.134	20.52	1117	20.44	1121
60.0	0.00	0.00	0.00	1.134	20.69	1108	20.61	1112
70.0	0.00	0.00	0.00	1.134	20.86	1099	20.78	1103
80.0	0.00	0.00	0.00	1.134	21.03	1091	20.94	1095
90.0	0.00	0.00	0.00	1.134	21.19	1082	21.11	1086
100.0	0.00	0.00	0.00	1.134	21.36	1074	21.28	1078
110.0	0.00	0.00	0.00	1.134	21.53	1066	21.44	1070
120.0	0.00	0.00	0.00	1.134	21.69	1058	21.60	1062
130.0	0.00	0.00	0.00	1.134	21.85	1050	21.76	1054
167.0	0.00	0.00	0.00	1.134	22.34	1028	22.34	1028
212.0	0.00	0.00	0.00	1.134	22.76	1009	22.76	1009

* Design Condition

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SHEET 68 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.68

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	2.461	31.26	2499	31.24	2500*
0.0	0.00	0.00	0.00	1.134	31.01	1161	30.93	1163
30.0	0.00	0.00	0.00	1.134	31.54	1142	31.46	1144
40.0	0.00	0.00	0.00	1.134	31.71	1135	31.63	1138
50.0	0.00	0.00	0.00	1.134	31.89	1129	31.80	1132
60.0	0.00	0.00	0.00	1.134	32.06	1123	31.98	1126
70.0	0.00	0.00	0.00	1.134	32.24	1118	32.15	1121
80.0	0.00	0.00	0.00	1.134	32.41	1112	32.32	1115
90.0	0.00	0.00	0.00	1.134	32.58	1106	32.49	1109
100.0	0.00	0.00	0.00	1.134	32.75	1101	32.66	1104
110.0	0.00	0.00	0.00	1.134	32.92	1095	32.83	1098
120.0	0.00	0.00	0.00	1.134	33.09	1090	32.99	1093
130.0	0.00	0.00	0.00	1.134	33.26	1084	33.16	1088
167.0	0.00	0.00	0.00	1.134	33.78	1068	33.77	1069
212.0	0.00	0.00	0.00	1.134	34.23	1055	34.23	1055

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.69

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-3
100.00	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-1	2-2	2-3
125.00	2-0	2-2	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7
150.00	2-10	3-2	3-5	3-9	4-0	4-3	4-6	4-9	4-11	5-2
175.00	3-10	4-4	4-8	5-1	5-5	5-10	6-1	6-5	6-9	7-0
200.00	5-1	5-7	6-2	6-8	7-1	7-7	8-0	8-5	8-10	9-2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-3	1-3
100.00	1-4	1-6	1-7	1-9	1-10	1-11	2-1	2-2	2-3	2-3
125.00	2-1	2-3	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-7
150.00	3-0	3-3	3-7	3-10	4-2	4-5	4-7	4-10	5-0	5-2
175.00	4-0	4-6	4-11	5-3	5-7	6-0	6-3	6-7	6-10	7-0
200.00	5-3	5-10	6-5	6-10	7-4	7-10	8-3	8-8	9-0	9-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.70

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7
125.00	1-11	2-0	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-6
150.00	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7
175.00	3-10	3-11	4-1	4-2	4-3	4-5	4-6	4-8	4-9	4-10
200.00	5-0	5-2	5-4	5-5	5-7	5-9	5-11	6-1	6-2	6-4
225.00	6-3	6-6	6-8	6-11	7-1	7-3	7-6	7-8	7-10	8-0
250.00	7-9	8-0	8-3	8-6	8-9	9-0	9-3	9-5	9-8	9-11

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-3	1-4	1-4	1-5	1-5	1-5	1-6	1-6	1-7	1-7
125.00	2-0	2-0	2-1	2-2	2-3	2-3	2-4	2-5	2-5	2-6
150.00	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7
175.00	3-10	4-0	4-1	4-3	4-4	4-5	4-7	4-8	4-9	4-11
200.00	5-0	5-2	5-4	5-6	5-8	5-10	6-0	6-1	6-3	6-5
225.00	6-4	6-7	6-9	7-0	7-2	7-4	7-7	7-9	7-11	8-1
250.00	7-10	8-2	8-5	8-8	8-10	9-1	9-4	9-7	9-9	10-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.71

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2
175.00	3-10	3-10	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-4
200.00	5-0	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-7
225.00	6-3	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1
250.00	7-9	7-10	8-0	8-1	8-3	8-4	8-5	8-7	8-8	8-9
275.00	9-5	9-6	9-8	9-10	9-11	10-1	10-3	10-4	10-6	10-7
300.00	11-2	11-4	11-6	11-8	11-10	12-0	12-2	12-4	12-6	12-8
325.00	13-1	13-4	13-6	13-9	13-11	14-1	14-3	14-6	14-8	14-10
350.00	15-3	15-5	15-8	15-11	16-2	16-4	16-7	16-10	17-0	17-3
375.00	17-6	17-9	18-0	18-3	18-6	18-9	19-0	19-3	19-6	19-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2
175.00	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-3	4-3	4-4
200.00	5-0	5-1	5-2	5-3	5-3	5-4	5-5	5-6	5-7	5-8
225.00	6-4	6-5	6-6	6-7	6-8	6-9	6-11	7-0	7-1	7-2
250.00	7-10	7-11	8-0	8-2	8-3	8-5	8-6	8-7	8-9	8-10
275.00	9-5	9-7	9-9	9-10	10-0	10-2	10-3	10-5	10-7	10-8
300.00	11-3	11-5	11-7	11-9	11-11	12-1	12-3	12-5	12-7	12-9
325.00	13-2	13-5	13-7	13-10	14-0	14-2	14-4	14-7	14-9	14-11
350.00	15-4	15-7	15-9	16-0	16-3	16-5	16-8	16-11	17-1	17-4
375.00	17-7	17-10	18-1	18-5	18-8	18-11	19-2	19-5	19-8	19-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.72

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4
225.00	6-3	6-4	6-5	6-5	6-6	6-7	6-7	6-8	6-9	6-9
250.00	7-9	7-10	7-11	8-0	8-0	8-1	8-2	8-3	8-4	8-4
275.00	9-5	9-6	9-7	9-8	9-9	9-10	9-11	10-0	10-0	10-1
300.00	11-2	11-3	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0
325.00	13-2	13-3	13-4	13-6	13-7	13-8	13-10	13-11	14-0	14-2
350.00	15-3	15-4	15-6	15-8	15-9	15-11	16-0	16-2	16-3	16-5
375.00	17-6	17-8	17-10	17-11	18-1	18-3	18-5	18-7	18-8	18-10
400.00	19-11	20-1	20-3	20-5	20-7	20-9	20-11	21-1	21-3	21-5
425.00	22-6	22-8	22-11	23-1	23-3	23-6	23-8	23-10	24-0	24-3
450.00	25-3	25-5	25-8	25-11	26-1	26-4	26-6	26-9	26-11	27-2
475.00	28-2	28-4	28-7	28-10	29-1	29-4	29-7	29-10	30-1	30-3
500.00	31-2	31-5	31-9	32-0	32-3	32-6	32-10	33-1	33-4	33-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4
225.00	6-4	6-4	6-5	6-6	6-6	6-7	6-8	6-8	6-9	6-10
250.00	7-10	7-10	7-11	8-0	8-1	8-2	8-2	8-3	8-4	8-5
275.00	9-5	9-6	9-7	9-8	9-9	9-10	9-11	10-0	10-1	10-2
300.00	11-3	11-4	11-5	11-6	11-7	11-9	11-10	11-11	12-0	12-1
325.00	13-2	13-4	13-5	13-6	13-8	13-9	13-10	14-0	14-1	14-2
350.00	15-4	15-5	15-7	15-8	15-10	15-11	16-1	16-3	16-4	16-6
375.00	17-7	17-9	17-10	18-0	18-2	18-4	18-6	18-7	18-9	18-11
400.00	20-0	20-2	20-4	20-6	20-8	20-10	21-0	21-2	21-4	21-6
425.00	22-7	22-9	23-0	23-2	23-4	23-7	23-9	23-11	24-2	24-4
450.00	25-4	25-7	25-9	26-0	26-3	26-5	26-8	26-10	27-1	27-3
475.00	28-3	28-6	28-9	29-0	29-3	29-5	29-8	29-11	30-2	30-5
500.00	31-4	31-7	31-10	32-1	32-5	32-8	32-11	33-2	33-5	33-8

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SHEET 73 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.73

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-9	7-10	7-11	7-11	8-0	8-0	8-1	8-1	8-2	8-2
275.00	9-5	9-6	9-6	9-7	9-8	9-8	9-9	9-9	9-10	9-11
300.00	11-3	11-3	11-4	11-5	11-6	11-6	11-7	11-8	11-9	11-9
325.00	13-2	13-3	13-4	13-5	13-6	13-6	13-7	13-8	13-9	13-10
350.00	15-3	15-4	15-5	15-7	15-8	15-9	15-10	15-10	15-11	16-0
375.00	17-7	17-8	17-9	17-10	17-11	18-0	18-2	18-3	18-4	18-5
400.00	20-0	20-1	20-2	20-4	20-5	20-6	20-8	20-9	20-10	21-0
425.00	22-7	22-8	22-10	22-11	23-1	23-2	23-4	23-5	23-7	23-8
450.00	25-4	25-5	25-7	25-9	25-10	26-0	26-2	26-3	26-5	26-7
475.00	28-3	28-4	28-6	28-8	28-10	29-0	29-2	29-4	29-5	29-7
500.00	31-3	31-5	31-8	31-10	32-0	32-2	32-4	32-6	32-8	32-10
525.00	34-6	34-8	34-11	35-1	35-3	35-6	35-8	35-10	36-0	36-3
550.00	37-11	38-1	38-4	38-6	38-9	38-11	39-2	39-4	39-7	39-9
575.00	41-5	41-8	41-11	42-2	42-4	42-7	42-10	43-1	43-3	43-6
600.00	45-2	45-5	45-8	45-11	46-2	46-5	46-8	46-11	47-2	47-5
625.00	49-0	49-4	49-7	49-10	50-1	50-5	50-8	50-11	51-2	51-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-10	7-10	7-11	7-11	8-0	8-0	8-1	8-1	8-2	8-2
275.00	9-5	9-6	9-7	9-7	9-8	9-9	9-9	9-10	9-10	9-11
300.00	11-3	11-4	11-5	11-5	11-6	11-7	11-8	11-8	11-9	11-10
325.00	13-3	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-10
350.00	15-4	15-5	15-6	15-7	15-8	15-9	15-10	15-11	16-0	16-1
375.00	17-7	17-8	17-10	17-11	18-0	18-1	18-2	18-3	18-5	18-6
400.00	20-0	20-2	20-3	20-4	20-6	20-7	20-8	20-10	20-11	21-0
425.00	22-8	22-9	22-11	23-0	23-2	23-3	23-5	23-6	23-7	23-9
450.00	25-5	25-6	25-8	25-10	25-11	26-1	26-3	26-4	26-6	26-8
475.00	28-3	28-5	28-7	28-9	28-11	29-1	29-3	29-5	29-6	29-8
500.00	31-4	31-6	31-9	31-11	32-1	32-3	32-5	32-7	32-9	32-11
525.00	34-7	34-9	35-0	35-2	35-4	35-7	35-9	35-11	36-2	36-4
550.00	38-0	38-2	38-5	38-8	38-10	39-1	39-3	39-6	39-8	39-11
575.00	41-7	41-9	42-0	42-3	42-6	42-8	42-11	43-2	43-5	43-7
600.00	45-3	45-6	45-9	46-0	46-3	46-6	46-9	47-0	47-3	47-6
625.00	49-2	49-5	49-8	50-0	50-3	50-6	50-10	51-1	51-4	51-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.74

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	2.461	1.03	3000	1.03	3000*
0.0	0.00	0.00	0.00	1.134	0.74	1913	0.70	2037
30.0	0.00	0.00	0.00	1.134	1.23	1151	1.15	1230
40.0	0.00	0.00	0.00	1.134	1.38	1028	1.30	1091
50.0	0.00	0.00	0.00	1.134	1.52	935	1.44	987
60.0	0.00	0.00	0.00	1.134	1.65	862	1.57	905
70.0	0.00	0.00	0.00	1.134	1.77	803	1.69	839
80.0	0.00	0.00	0.00	1.134	1.88	754	1.81	785
90.0	0.00	0.00	0.00	1.134	1.99	713	1.92	740
100.0	0.00	0.00	0.00	1.134	2.09	678	2.02	701
110.0	0.00	0.00	0.00	1.134	2.15	661	2.13	668
120.0	0.00	0.00	0.00	1.134	2.21	642	2.21	642
130.0	0.00	0.00	0.00	1.134	2.26	628	2.26	628
167.0	0.00	0.00	0.00	1.134	2.45	581	2.45	581
212.0	0.00	0.00	0.00	1.134	2.66	534	2.66	534

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	2.461	4.11	3000	4.11	3000*
0.0	0.00	0.00	0.00	1.134	3.76	1511	3.67	1547
30.0	0.00	0.00	0.00	1.134	4.36	1302	4.27	1331
40.0	0.00	0.00	0.00	1.134	4.55	1249	4.46	1275
50.0	0.00	0.00	0.00	1.134	4.73	1201	4.64	1226
60.0	0.00	0.00	0.00	1.134	4.91	1159	4.81	1181
70.0	0.00	0.00	0.00	1.134	5.08	1120	4.98	1141
80.0	0.00	0.00	0.00	1.134	5.24	1085	5.15	1105
90.0	0.00	0.00	0.00	1.134	5.40	1053	5.31	1072
100.0	0.00	0.00	0.00	1.134	5.56	1023	5.46	1041
110.0	0.00	0.00	0.00	1.134	5.71	996	5.61	1013
120.0	0.00	0.00	0.00	1.134	5.86	971	5.76	987
130.0	0.00	0.00	0.00	1.134	6.00	948	5.91	963
167.0	0.00	0.00	0.00	1.134	6.33	899	6.33	899
212.0	0.00	0.00	0.00	1.134	6.67	854	6.67	854

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.75

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	2.461	9.30	2988	9.26	3000*
0.0	0.00	0.00	0.00	1.134	8.94	1431	8.81	1453
30.0	0.00	0.00	0.00	1.134	9.57	1339	9.43	1358
40.0	0.00	0.00	0.00	1.134	9.77	1311	9.63	1330
50.0	0.00	0.00	0.00	1.134	9.97	1286	9.83	1304
60.0	0.00	0.00	0.00	1.134	10.16	1262	10.02	1279
70.0	0.00	0.00	0.00	1.134	10.35	1239	10.21	1255
80.0	0.00	0.00	0.00	1.134	10.53	1217	10.40	1233
90.0	0.00	0.00	0.00	1.134	10.72	1196	10.58	1212
100.0	0.00	0.00	0.00	1.134	10.90	1177	10.76	1192
110.0	0.00	0.00	0.00	1.134	11.08	1158	10.94	1173
120.0	0.00	0.00	0.00	1.134	11.25	1140	11.11	1154
130.0	0.00	0.00	0.00	1.134	11.42	1123	11.28	1137
167.0	0.00	0.00	0.00	1.134	11.93	1076	11.90	1079
212.0	0.00	0.00	0.00	1.134	12.35	1040	12.35	1040

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	2.461	16.58	2990	16.52	3000*
0.0	0.00	0.00	0.00	1.134	16.22	1408	16.06	1421
30.0	0.00	0.00	0.00	1.134	16.85	1356	16.69	1368
40.0	0.00	0.00	0.00	1.134	17.05	1340	16.90	1352
50.0	0.00	0.00	0.00	1.134	17.26	1324	17.10	1336
60.0	0.00	0.00	0.00	1.134	17.46	1309	17.30	1321
70.0	0.00	0.00	0.00	1.134	17.66	1294	17.50	1306
80.0	0.00	0.00	0.00	1.134	17.86	1280	17.69	1292
90.0	0.00	0.00	0.00	1.134	18.05	1267	17.89	1278
100.0	0.00	0.00	0.00	1.134	18.24	1254	18.08	1265
110.0	0.00	0.00	0.00	1.134	18.43	1241	18.27	1252
120.0	0.00	0.00	0.00	1.134	18.62	1228	18.46	1239
130.0	0.00	0.00	0.00	1.134	18.81	1216	18.65	1227
167.0	0.00	0.00	0.00	1.134	19.43	1178	19.32	1185
212.0	0.00	0.00	0.00	1.134	19.91	1150	19.91	1150

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.76

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	2.461	25.98	2992	25.91	3000*
0.0	0.00	0.00	0.00	1.134	25.62	1398	25.45	1407
30.0	0.00	0.00	0.00	1.134	26.25	1365	26.09	1373
40.0	0.00	0.00	0.00	1.134	26.46	1354	26.29	1363
50.0	0.00	0.00	0.00	1.134	26.67	1344	26.50	1352
60.0	0.00	0.00	0.00	1.134	26.87	1334	26.70	1342
70.0	0.00	0.00	0.00	1.134	27.08	1324	26.91	1332
80.0	0.00	0.00	0.00	1.134	27.28	1314	27.11	1323
90.0	0.00	0.00	0.00	1.134	27.48	1305	27.31	1313
100.0	0.00	0.00	0.00	1.134	27.68	1296	27.51	1304
110.0	0.00	0.00	0.00	1.134	27.88	1287	27.71	1295
120.0	0.00	0.00	0.00	1.134	28.08	1278	27.90	1286
130.0	0.00	0.00	0.00	1.134	28.28	1269	28.10	1277
167.0	0.00	0.00	0.00	1.134	28.98	1239	28.81	1247
212.0	0.00	0.00	0.00	1.134	29.49	1219	29.49	1219

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.77

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-2
100.00	1-0	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-0	2-2
125.00	1-7	1-10	2-0	2-3	2-5	2-8	2-10	3-0	3-2	3-4
150.00	2-3	2-7	2-11	3-3	3-6	3-10	4-1	4-4	4-7	4-9
175.00	3-1	3-6	4-0	4-5	4-10	5-2	5-6	5-11	6-2	6-6
200.00	4-0	4-7	5-2	5-9	6-3	6-9	7-3	7-8	8-1	8-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-2
100.00	1-1	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-1	2-2
125.00	1-8	1-11	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-4
150.00	2-5	2-9	3-1	3-5	3-8	4-0	4-3	4-6	4-9	4-10
175.00	3-4	3-9	4-3	4-8	5-1	5-5	5-9	6-1	6-5	6-7
200.00	4-4	4-11	5-6	6-1	6-7	7-1	7-6	8-0	8-5	8-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.78

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-5
125.00	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-1	2-2	2-2
150.00	2-4	2-5	2-6	2-7	2-8	2-10	2-11	3-0	3-1	3-2
175.00	3-1	3-3	3-5	3-7	3-8	3-10	3-11	4-1	4-2	4-4
200.00	4-1	4-3	4-5	4-8	4-10	5-0	5-2	5-4	5-6	5-7
225.00	5-2	5-5	5-8	5-10	6-1	6-4	6-6	6-9	6-11	7-1
250.00	6-4	6-8	7-0	7-3	7-6	7-9	8-1	8-4	8-6	8-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5
125.00	1-8	1-8	1-9	1-10	1-11	2-0	2-1	2-1	2-2	2-3
150.00	2-4	2-5	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-3
175.00	3-2	3-4	3-6	3-7	3-9	3-11	4-0	4-2	4-3	4-4
200.00	4-2	4-4	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9
225.00	5-3	5-6	5-9	6-0	6-3	6-5	6-8	6-10	7-0	7-3
250.00	6-6	6-10	7-1	7-5	7-8	7-11	8-2	8-5	8-8	8-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.79

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-4	2-4	2-5	2-5	2-6	2-7	2-7	2-8	2-8	2-9
175.00	3-2	3-2	3-3	3-4	3-5	3-6	3-6	3-7	3-8	3-9
200.00	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10
225.00	5-2	5-4	5-5	5-6	5-8	5-9	5-10	5-11	6-1	6-2
250.00	6-5	6-7	6-8	6-10	6-11	7-1	7-3	7-4	7-6	7-7
275.00	7-9	7-11	8-1	8-3	8-5	8-7	8-9	8-11	9-0	9-2
300.00	9-3	9-5	9-8	9-10	10-0	10-3	10-5	10-7	10-9	10-11
325.00	10-10	11-1	11-4	11-6	11-9	12-0	12-2	12-5	12-8	12-10
350.00	12-7	12-10	13-1	13-5	13-8	13-11	14-2	14-5	14-8	14-11
375.00	14-5	14-9	15-1	15-4	15-8	16-0	16-3	16-7	16-10	17-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-4	2-5	2-5	2-6	2-6	2-7	2-8	2-8	2-9	2-9
175.00	3-2	3-3	3-4	3-5	3-5	3-6	3-7	3-8	3-8	3-9
200.00	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11
225.00	5-3	5-5	5-6	5-7	5-9	5-10	5-11	6-0	6-2	6-3
250.00	6-6	6-8	6-9	6-11	7-1	7-2	7-4	7-5	7-7	7-8
275.00	7-10	8-0	8-2	8-4	8-6	8-8	8-10	9-0	9-2	9-4
300.00	9-4	9-7	9-9	10-0	10-2	10-4	10-6	10-9	10-11	11-1
325.00	11-0	11-3	11-6	11-8	11-11	12-2	12-4	12-7	12-10	13-0
350.00	12-9	13-0	13-4	13-7	13-10	14-1	14-4	14-7	14-10	15-1
375.00	14-8	15-0	15-3	15-7	15-11	16-2	16-6	16-9	17-1	17-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.80

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-1	4-2	4-3	4-3	4-4	4-4	4-5	4-6	4-6	4-7
225.00	5-2	5-3	5-4	5-5	5-6	5-6	5-7	5-8	5-9	5-9
250.00	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-2
275.00	7-9	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7
300.00	9-3	9-5	9-6	9-7	9-9	9-10	9-11	10-1	10-2	10-3
325.00	10-10	11-0	11-2	11-3	11-5	11-7	11-8	11-10	11-11	12-1
350.00	12-7	12-9	12-11	13-1	13-3	13-5	13-6	13-8	13-10	14-0
375.00	14-6	14-8	14-10	15-0	15-2	15-4	15-7	15-9	15-11	16-1
400.00	16-6	16-8	16-11	17-1	17-4	17-6	17-8	17-11	18-1	18-3
425.00	18-7	18-10	19-1	19-4	19-6	19-9	20-0	20-2	20-5	20-8
450.00	20-11	21-2	21-5	21-8	21-11	22-2	22-5	22-8	22-11	23-2
475.00	23-3	23-7	23-10	24-2	24-5	24-8	25-0	25-3	25-6	25-10
500.00	25-9	26-1	26-5	26-9	27-1	27-5	27-8	28-0	28-4	28-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-2	4-2	4-3	4-4	4-4	4-5	4-5	4-6	4-7	4-7
225.00	5-3	5-4	5-5	5-5	5-6	5-7	5-8	5-8	5-9	5-10
250.00	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-0	7-1	7-2
275.00	7-10	7-11	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8
300.00	9-4	9-6	9-7	9-8	9-10	9-11	10-0	10-2	10-3	10-4
325.00	11-0	11-1	11-3	11-5	11-6	11-8	11-9	11-11	12-0	12-2
350.00	12-9	12-11	13-1	13-2	13-4	13-6	13-8	13-10	14-0	14-1
375.00	14-7	14-10	15-0	15-2	15-4	15-6	15-8	15-10	16-0	16-2
400.00	16-8	16-10	17-1	17-3	17-6	17-8	17-10	18-1	18-3	18-5
425.00	18-9	19-0	19-3	19-6	19-9	19-11	20-2	20-5	20-7	20-10
450.00	21-1	21-4	21-7	21-10	22-1	22-4	22-7	22-10	23-1	23-4
475.00	23-6	23-9	24-1	24-4	24-8	24-11	25-2	25-6	25-9	26-0
500.00	26-0	26-4	26-8	27-0	27-4	27-8	27-11	28-3	28-7	28-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.81

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-5	6-6	6-7	6-7	6-8	6-8	6-9	6-10	6-10	6-11
275.00	7-10	7-10	7-11	8-0	8-1	8-1	8-2	8-3	8-4	8-4
300.00	9-4	9-4	9-5	9-6	9-7	9-8	9-9	9-10	9-11	9-11
325.00	10-11	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8
350.00	12-8	12-9	12-10	13-0	13-1	13-2	13-3	13-4	13-5	13-7
375.00	14-6	14-8	14-9	14-11	15-0	15-1	15-3	15-4	15-5	15-7
400.00	16-6	16-8	16-10	16-11	17-1	17-2	17-4	17-5	17-7	17-8
425.00	18-8	18-10	19-0	19-2	19-3	19-5	19-7	19-9	19-10	20-0
450.00	20-11	21-1	21-3	21-5	21-7	21-9	21-11	22-1	22-3	22-5
475.00	23-4	23-6	23-9	23-11	24-1	24-3	24-5	24-8	24-10	25-0
500.00	25-11	26-1	26-4	26-6	26-8	26-11	27-1	27-4	27-6	27-8
525.00	28-6	28-9	29-0	29-3	29-5	29-8	29-11	30-1	30-4	30-7
550.00	31-4	31-7	31-10	32-1	32-4	32-7	32-10	33-1	33-4	33-7
575.00	34-3	34-6	34-10	35-1	35-4	35-8	35-11	36-2	36-5	36-8
600.00	37-4	37-7	37-11	38-3	38-6	38-10	39-1	39-5	39-8	40-0
625.00	40-6	40-10	41-2	41-6	41-10	42-2	42-5	42-9	43-1	43-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-6	6-7	6-7	6-8	6-8	6-9	6-10	6-10	6-11	6-11
275.00	7-10	7-11	8-0	8-1	8-1	8-2	8-3	8-3	8-4	8-5
300.00	9-4	9-5	9-6	9-7	9-8	9-9	9-10	9-10	9-11	10-0
325.00	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9
350.00	12-9	12-10	12-11	13-1	13-2	13-3	13-4	13-5	13-6	13-8
375.00	14-8	14-9	14-10	15-0	15-1	15-2	15-4	15-5	15-7	15-8
400.00	16-8	16-9	16-11	17-1	17-2	17-4	17-5	17-7	17-8	17-10
425.00	18-10	18-11	19-1	19-3	19-5	19-7	19-8	19-10	20-0	20-1
450.00	21-1	21-3	21-5	21-7	21-9	21-11	22-1	22-3	22-5	22-7
475.00	23-6	23-8	23-10	24-1	24-3	24-5	24-7	24-10	25-0	25-2
500.00	26-1	26-3	26-6	26-8	26-10	27-1	27-3	27-6	27-8	27-11
525.00	28-9	28-11	29-2	29-5	29-8	29-10	30-1	30-4	30-6	30-9
550.00	31-6	31-9	32-1	32-4	32-7	32-10	33-0	33-3	33-6	33-9
575.00	34-6	34-9	35-0	35-4	35-7	35-10	36-2	36-5	36-8	36-11
600.00	37-7	37-10	38-2	38-6	38-9	39-1	39-4	39-8	39-11	40-3
625.00	40-9	41-1	41-5	41-9	42-1	42-5	42-9	43-0	43-4	43-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.82

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	5.041	6.40	1000	6.40	1000*
0.0	0.00	0.00	0.00	1.134	6.37	226	6.36	226
30.0	0.00	0.00	0.00	1.134	6.48	222	6.47	223
40.0	0.00	0.00	0.00	1.134	6.51	221	6.51	222
50.0	0.00	0.00	0.00	1.134	6.55	220	6.54	220
60.0	0.00	0.00	0.00	1.134	6.58	219	6.58	219
70.0	0.00	0.00	0.00	1.134	6.60	219	6.60	219
80.0	0.00	0.00	0.00	1.134	6.62	218	6.62	218
90.0	0.00	0.00	0.00	1.134	6.64	217	6.64	217
100.0	0.00	0.00	0.00	1.134	6.66	217	6.66	217
110.0	0.00	0.00	0.00	1.134	6.68	216	6.68	216
120.0	0.00	0.00	0.00	1.134	6.70	215	6.70	215
130.0	0.00	0.00	0.00	1.134	6.72	215	6.72	215
167.0	0.00	0.00	0.00	1.134	6.80	212	6.80	212
212.0	0.00	0.00	0.00	1.134	6.89	210	6.89	210

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	5.041	27.06	1000	27.06	1000*
0.0	0.00	0.00	0.00	1.134	27.03	225	27.02	225
30.0	0.00	0.00	0.00	1.134	27.14	224	27.13	224
40.0	0.00	0.00	0.00	1.134	27.17	224	27.16	224
50.0	0.00	0.00	0.00	1.134	27.20	224	27.20	224
60.0	0.00	0.00	0.00	1.134	27.23	224	27.23	224
70.0	0.00	0.00	0.00	1.134	27.25	224	27.25	224
80.0	0.00	0.00	0.00	1.134	27.28	223	27.28	223
90.0	0.00	0.00	0.00	1.134	27.30	223	27.30	223
100.0	0.00	0.00	0.00	1.134	27.32	223	27.32	223
110.0	0.00	0.00	0.00	1.134	27.34	223	27.34	223
120.0	0.00	0.00	0.00	1.134	27.36	223	27.36	223
130.0	0.00	0.00	0.00	1.134	27.38	223	27.38	223
167.0	0.00	0.00	0.00	1.134	27.46	222	27.46	222
212.0	0.00	0.00	0.00	1.134	27.55	221	27.55	221

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.83

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	5.041	68.80	1000	68.80	1000*
0.0	0.00	0.00	0.00	1.134	68.77	225	68.76	225
30.0	0.00	0.00	0.00	1.134	68.88	225	68.87	225
40.0	0.00	0.00	0.00	1.134	68.91	225	68.91	225
50.0	0.00	0.00	0.00	1.134	68.95	225	68.94	225
60.0	0.00	0.00	0.00	1.134	68.97	225	68.97	225
70.0	0.00	0.00	0.00	1.134	69.00	225	69.00	225
80.0	0.00	0.00	0.00	1.134	69.02	225	69.02	225
90.0	0.00	0.00	0.00	1.134	69.04	224	69.04	224
100.0	0.00	0.00	0.00	1.134	69.06	224	69.06	224
110.0	0.00	0.00	0.00	1.134	69.08	224	69.08	224
120.0	0.00	0.00	0.00	1.134	69.10	224	69.10	224
130.0	0.00	0.00	0.00	1.134	69.12	224	69.12	224
167.0	0.00	0.00	0.00	1.134	69.20	224	69.20	224
212.0	0.00	0.00	0.00	1.134	69.29	224	69.29	224

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	5.041	92.38	1327	92.38	1327*
0.0	0.00	0.00	0.00	1.134	92.32	299	92.31	299
30.0	0.00	0.00	0.00	1.134	92.47	298	92.45	298
40.0	0.00	0.00	0.00	1.134	92.51	298	92.50	298
50.0	0.00	0.00	0.00	1.134	92.56	298	92.54	298
60.0	0.00	0.00	0.00	1.134	92.60	298	92.59	298
70.0	0.00	0.00	0.00	1.134	92.63	298	92.63	298
80.0	0.00	0.00	0.00	1.134	92.66	298	92.66	298
90.0	0.00	0.00	0.00	1.134	92.69	298	92.69	298
100.0	0.00	0.00	0.00	1.134	92.72	298	92.72	298
110.0	0.00	0.00	0.00	1.134	92.75	298	92.75	298
120.0	0.00	0.00	0.00	1.134	92.77	298	92.77	298
130.0	0.00	0.00	0.00	1.134	92.80	298	92.80	298
167.0	0.00	0.00	0.00	1.134	92.90	298	92.90	298
212.0	0.00	0.00	0.00	1.134	93.03	297	93.03	297

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.84

Span = 500 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	5.041	116.27	1652	116.27	1652*
0.0	0.00	0.00	0.00	1.134	116.19	372	116.17	372
30.0	0.00	0.00	0.00	1.134	116.37	371	116.35	371
40.0	0.00	0.00	0.00	1.134	116.42	371	116.40	371
50.0	0.00	0.00	0.00	1.134	116.48	371	116.46	371
60.0	0.00	0.00	0.00	1.134	116.54	371	116.52	371
70.0	0.00	0.00	0.00	1.134	116.59	371	116.57	371
80.0	0.00	0.00	0.00	1.134	116.63	371	116.63	371
90.0	0.00	0.00	0.00	1.134	116.66	371	116.66	371
100.0	0.00	0.00	0.00	1.134	116.70	371	116.70	371
110.0	0.00	0.00	0.00	1.134	116.73	371	116.73	371
120.0	0.00	0.00	0.00	1.134	116.77	371	116.77	371
130.0	0.00	0.00	0.00	1.134	116.80	371	116.80	371
167.0	0.00	0.00	0.00	1.134	116.93	370	116.93	370
212.0	0.00	0.00	0.00	1.134	117.08	370	117.08	370

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	3-7	3-8	3-8	3-8	3-8	3-8	3-9	3-9	3-9	3-9
100.00	6-5	6-6	6-6	6-7	6-7	6-7	6-7	6-8	6-8	6-8
125.00	10-1	10-2	10-2	10-3	10-4	10-4	10-4	10-5	10-5	10-6
150.00	14-7	14-8	14-9	14-10	14-11	14-11	15-0	15-1	15-1	15-2
175.00	19-11	20-1	20-2	20-3	20-5	20-5	20-6	20-7	20-8	20-8
200.00	26-2	26-4	26-6	26-7	26-9	26-10	26-11	27-0	27-1	27-2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	3-7	3-8	3-8	3-8	3-8	3-8	3-9	3-9	3-9	3-9
100.00	6-5	6-6	6-6	6-7	6-7	6-7	6-7	6-8	6-8	6-8
125.00	10-1	10-2	10-3	10-3	10-4	10-4	10-4	10-5	10-5	10-6
150.00	14-7	14-8	14-9	14-10	14-11	14-11	15-0	15-1	15-1	15-2
175.00	20-0	20-1	20-2	20-3	20-5	20-5	20-6	20-7	20-8	20-8
200.00	26-3	26-4	26-6	26-8	26-9	26-10	26-11	27-0	27-1	27-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.86

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	6-8	6-8	6-8	6-8	6-8	6-8	6-8	6-8	6-9	6-9
125.00	10-5	10-5	10-6	10-6	10-6	10-6	10-6	10-6	10-6	10-6
150.00	15-1	15-1	15-1	15-2	15-2	15-2	15-2	15-2	15-3	15-3
175.00	20-8	20-8	20-8	20-9	20-9	20-9	20-9	20-9	20-10	20-10
200.00	27-1	27-2	27-2	27-2	27-3	27-3	27-3	27-4	27-4	27-4
225.00	34-6	34-7	34-7	34-8	34-8	34-9	34-9	34-9	34-10	34-10
250.00	42-11	42-11	43-0	43-1	43-1	43-2	43-2	43-3	43-3	43-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	6-8	6-8	6-8	6-8	6-8	6-8	6-8	6-8	6-9	6-9
125.00	10-5	10-5	10-6	10-6	10-6	10-6	10-6	10-6	10-6	10-6
150.00	15-1	15-1	15-2	15-2	15-2	15-2	15-2	15-2	15-3	15-3
175.00	20-8	20-8	20-8	20-9	20-9	20-9	20-9	20-9	20-10	20-10
200.00	27-1	27-2	27-2	27-2	27-3	27-3	27-3	27-4	27-4	27-4
225.00	34-6	34-7	34-7	34-8	34-8	34-9	34-9	34-9	34-10	34-10
250.00	42-11	42-11	43-0	43-1	43-1	43-2	43-2	43-3	43-3	43-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.87

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	16-5	16-5	16-5	16-5	16-6	16-6	16-6	16-6	16-6	16-6
175.00	22-6	22-6	22-6	22-6	22-6	22-6	22-7	22-7	22-7	22-7
200.00	29-7	29-7	29-7	29-7	29-7	29-8	29-8	29-8	29-8	29-8
225.00	37-8	37-9	37-9	37-9	37-9	37-9	37-9	37-10	37-10	37-10
250.00	46-11	46-11	47-0	47-0	47-0	47-0	47-0	47-1	47-1	47-1
275.00	57-3	57-4	57-4	57-4	57-5	57-5	57-5	57-5	57-6	57-6
300.00	68-10	68-10	68-11	68-11	69-0	69-0	69-0	69-0	69-1	69-1
325.00	81-8	81-8	81-9	81-9	81-10	81-10	81-10	81-11	81-11	81-11
350.00	95-9	95-10	95-11	95-11	96-0	96-0	96-1	96-1	96-1	96-2
375.00	111-4	111-5	111-5	111-6	111-7	111-7	111-8	111-8	111-8	111-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	16-5	16-5	16-5	16-5	16-6	16-6	16-6	16-6	16-6	16-6
175.00	22-6	22-6	22-6	22-6	22-6	22-6	22-7	22-7	22-7	22-7
200.00	29-7	29-7	29-7	29-7	29-7	29-8	29-8	29-8	29-8	29-8
225.00	37-8	37-9	37-9	37-9	37-9	37-9	37-9	37-10	37-10	37-10
250.00	46-11	46-11	47-0	47-0	47-0	47-0	47-0	47-1	47-1	47-1
275.00	57-3	57-4	57-4	57-4	57-5	57-5	57-5	57-5	57-6	57-6
300.00	68-10	68-11	68-11	68-11	69-0	69-0	69-0	69-0	69-1	69-1
325.00	81-8	81-8	81-9	81-9	81-10	81-10	81-10	81-11	81-11	81-11
350.00	95-10	95-10	95-11	95-11	96-0	96-0	96-1	96-1	96-1	96-2
375.00	111-4	111-5	111-5	111-6	111-7	111-7	111-8	111-8	111-8	111-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.88

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	22-0	22-0	22-0	22-0	22-0	22-0	22-0	22-1	22-1	22-1
225.00	27-11	27-11	28-0	28-0	28-0	28-0	28-0	28-0	28-0	28-0
250.00	34-8	34-8	34-8	34-8	34-9	34-9	34-9	34-9	34-9	34-9
275.00	42-2	42-2	42-2	42-2	42-3	42-3	42-3	42-3	42-3	42-4
300.00	50-5	50-6	50-6	50-6	50-6	50-7	50-7	50-7	50-7	50-7
325.00	59-7	59-7	59-7	59-8	59-8	59-8	59-9	59-9	59-9	59-9
350.00	69-6	69-7	69-7	69-7	69-8	69-8	69-9	69-9	69-9	69-9
375.00	80-4	80-5	80-5	80-6	80-6	80-7	80-7	80-7	80-8	80-8
400.00	92-2	92-2	92-3	92-3	92-4	92-4	92-5	92-5	92-5	92-6
425.00	104-10	104-11	104-11	105-0	105-0	105-1	105-2	105-2	105-2	105-3
450.00	118-6	118-7	118-8	118-8	118-9	118-10	118-10	118-11	118-11	119-0
475.00	133-3	133-4	133-4	133-5	133-6	133-7	133-7	133-8	133-8	133-9
500.00	149-0	149-1	149-2	149-3	149-4	149-5	149-5	149-6	149-7	149-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	22-0	22-0	22-0	22-0	22-0	22-0	22-0	22-1	22-1	22-1
225.00	27-11	27-11	28-0	28-0	28-0	28-0	28-0	28-0	28-0	28-0
250.00	34-8	34-8	34-8	34-8	34-9	34-9	34-9	34-9	34-9	34-9
275.00	42-2	42-2	42-2	42-3	42-3	42-3	42-3	42-3	42-3	42-4
300.00	50-5	50-6	50-6	50-6	50-6	50-7	50-7	50-7	50-7	50-7
325.00	59-7	59-7	59-7	59-8	59-8	59-8	59-9	59-9	59-9	59-9
350.00	69-6	69-7	69-7	69-8	69-8	69-8	69-9	69-9	69-9	69-9
375.00	80-5	80-5	80-5	80-6	80-6	80-7	80-7	80-7	80-8	80-8
400.00	92-2	92-2	92-3	92-3	92-4	92-4	92-5	92-5	92-5	92-6
425.00	104-10	104-11	104-11	105-0	105-1	105-1	105-2	105-2	105-2	105-3
450.00	118-6	118-7	118-8	118-9	118-9	118-10	118-10	118-11	118-11	119-0
475.00	133-3	133-4	133-5	133-5	133-6	133-7	133-7	133-8	133-8	133-9
500.00	149-0	149-1	149-2	149-3	149-4	149-5	149-5	149-6	149-7	149-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.89

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	27-7	27-7	27-7	27-7	27-8	27-8	27-8	27-8	27-8	27-8
275.00	33-6	33-6	33-6	33-6	33-6	33-7	33-7	33-7	33-7	33-7
300.00	40-0	40-0	40-0	40-0	40-1	40-1	40-1	40-1	40-1	40-2
325.00	47-1	47-2	47-2	47-2	47-2	47-3	47-3	47-3	47-3	47-3
350.00	54-10	54-11	54-11	54-11	55-0	55-0	55-0	55-0	55-1	55-1
375.00	63-3	63-4	63-4	63-4	63-5	63-5	63-5	63-6	63-6	63-6
400.00	72-4	72-4	72-5	72-5	72-6	72-6	72-6	72-7	72-7	72-7
425.00	82-1	82-1	82-2	82-2	82-3	82-3	82-4	82-4	82-4	82-5
450.00	92-6	92-7	92-7	92-8	92-8	92-9	92-9	92-10	92-10	92-10
475.00	103-8	103-9	103-9	103-10	103-11	103-11	104-0	104-0	104-1	104-1
500.00	115-7	115-8	115-8	115-9	115-10	115-10	115-11	116-0	116-0	116-0
525.00	128-3	128-4	128-5	128-5	128-6	128-7	128-8	128-8	128-9	128-9
550.00	141-8	141-9	141-10	141-11	142-0	142-1	142-1	142-2	142-3	142-3
575.00	155-11	156-0	156-1	156-2	156-3	156-4	156-5	156-6	156-6	156-7
600.00	171-1	171-2	171-3	171-4	171-5	171-6	171-7	171-8	171-8	171-9
625.00	187-0	187-1	187-2	187-4	187-5	187-6	187-7	187-8	187-9	187-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	27-7	27-7	27-7	27-7	27-8	27-8	27-8	27-8	27-8	27-8
275.00	33-6	33-6	33-6	33-6	33-7	33-7	33-7	33-7	33-7	33-7
300.00	40-0	40-0	40-0	40-1	40-1	40-1	40-1	40-1	40-1	40-2
325.00	47-1	47-2	47-2	47-2	47-2	47-3	47-3	47-3	47-3	47-3
350.00	54-11	54-11	54-11	54-11	55-0	55-0	55-0	55-0	55-1	55-1
375.00	63-3	63-4	63-4	63-4	63-5	63-5	63-5	63-6	63-6	63-6
400.00	72-4	72-5	72-5	72-5	72-6	72-6	72-6	72-7	72-7	72-7
425.00	82-1	82-2	82-2	82-3	82-3	82-3	82-4	82-4	82-4	82-5
450.00	92-7	92-7	92-8	92-8	92-9	92-9	92-9	92-10	92-10	92-10
475.00	103-8	103-9	103-10	103-10	103-11	103-11	104-0	104-0	104-1	104-1
500.00	115-7	115-8	115-9	115-9	115-10	115-11	115-11	116-0	116-0	116-0
525.00	128-3	128-4	128-5	128-6	128-6	128-7	128-8	128-8	128-9	128-9
550.00	141-9	141-9	141-10	141-11	142-0	142-1	142-1	142-2	142-3	142-3
575.00	156-0	156-1	156-2	156-3	156-4	156-4	156-5	156-6	156-6	156-7
600.00	171-1	171-2	171-3	171-4	171-5	171-6	171-7	171-8	171-8	171-9
625.00	187-0	187-2	187-3	187-4	187-5	187-6	187-7	187-8	187-9	187-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.90

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	5.041	4.23	1500	4.23	1500*
0.0	0.00	0.00	0.00	1.134	4.16	343	4.14	345
30.0	0.00	0.00	0.00	1.134	4.32	330	4.31	332
40.0	0.00	0.00	0.00	1.134	4.37	327	4.36	328
50.0	0.00	0.00	0.00	1.134	4.42	323	4.41	324
60.0	0.00	0.00	0.00	1.134	4.47	319	4.46	321
70.0	0.00	0.00	0.00	1.134	4.51	317	4.51	317
80.0	0.00	0.00	0.00	1.134	4.54	315	4.54	315
90.0	0.00	0.00	0.00	1.134	4.57	313	4.57	313
100.0	0.00	0.00	0.00	1.134	4.60	311	4.60	311
110.0	0.00	0.00	0.00	1.134	4.63	309	4.63	309
120.0	0.00	0.00	0.00	1.134	4.66	307	4.66	307
130.0	0.00	0.00	0.00	1.134	4.69	305	4.69	305
167.0	0.00	0.00	0.00	1.134	4.79	298	4.79	298
212.0	0.00	0.00	0.00	1.134	4.92	291	4.92	291

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	5.041	17.31	1500	17.31	1500*
0.0	0.00	0.00	0.00	1.134	17.24	339	17.22	339
30.0	0.00	0.00	0.00	1.134	17.40	336	17.38	336
40.0	0.00	0.00	0.00	1.134	17.45	335	17.44	335
50.0	0.00	0.00	0.00	1.134	17.50	334	17.49	334
60.0	0.00	0.00	0.00	1.134	17.55	333	17.54	333
70.0	0.00	0.00	0.00	1.134	17.59	332	17.59	332
80.0	0.00	0.00	0.00	1.134	17.63	332	17.63	332
90.0	0.00	0.00	0.00	1.134	17.66	331	17.66	331
100.0	0.00	0.00	0.00	1.134	17.70	330	17.70	330
110.0	0.00	0.00	0.00	1.134	17.73	330	17.73	330
120.0	0.00	0.00	0.00	1.134	17.76	329	17.76	329
130.0	0.00	0.00	0.00	1.134	17.79	329	17.79	329
167.0	0.00	0.00	0.00	1.134	17.90	327	17.90	327
212.0	0.00	0.00	0.00	1.134	18.04	325	18.04	325

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.91

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	5.041	40.59	1500	40.59	1500*
0.0	0.00	0.00	0.00	1.134	40.52	338	40.50	338
30.0	0.00	0.00	0.00	1.134	40.68	337	40.67	337
40.0	0.00	0.00	0.00	1.134	40.73	336	40.72	337
50.0	0.00	0.00	0.00	1.134	40.79	336	40.77	336
60.0	0.00	0.00	0.00	1.134	40.84	336	40.82	336
70.0	0.00	0.00	0.00	1.134	40.88	335	40.87	335
80.0	0.00	0.00	0.00	1.134	40.92	335	40.92	335
90.0	0.00	0.00	0.00	1.134	40.95	335	40.95	335
100.0	0.00	0.00	0.00	1.134	40.98	335	40.98	335
110.0	0.00	0.00	0.00	1.134	41.01	334	41.01	334
120.0	0.00	0.00	0.00	1.134	41.04	334	41.04	334
130.0	0.00	0.00	0.00	1.134	41.07	334	41.07	334
167.0	0.00	0.00	0.00	1.134	41.19	333	41.19	333
212.0	0.00	0.00	0.00	1.134	41.33	332	41.33	332

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	5.041	77.38	1500	77.38	1500*
0.0	0.00	0.00	0.00	1.134	77.31	338	77.29	338
30.0	0.00	0.00	0.00	1.134	77.47	337	77.45	337
40.0	0.00	0.00	0.00	1.134	77.52	337	77.50	337
50.0	0.00	0.00	0.00	1.134	77.57	337	77.55	337
60.0	0.00	0.00	0.00	1.134	77.62	337	77.61	337
70.0	0.00	0.00	0.00	1.134	77.66	337	77.66	337
80.0	0.00	0.00	0.00	1.134	77.70	336	77.70	336
90.0	0.00	0.00	0.00	1.134	77.73	336	77.73	336
100.0	0.00	0.00	0.00	1.134	77.76	336	77.76	336
110.0	0.00	0.00	0.00	1.134	77.80	336	77.80	336
120.0	0.00	0.00	0.00	1.134	77.83	336	77.83	336
130.0	0.00	0.00	0.00	1.134	77.86	336	77.86	336
167.0	0.00	0.00	0.00	1.134	77.97	336	77.97	336
212.0	0.00	0.00	0.00	1.134	78.12	335	78.12	335

* Design Condition

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SHEET 92 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.92

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	5.041	137.21	1500	137.21	1500*
0.0	0.00	0.00	0.00	1.134	137.14	338	137.13	338
30.0	0.00	0.00	0.00	1.134	137.30	337	137.29	337
40.0	0.00	0.00	0.00	1.134	137.35	337	137.34	337
50.0	0.00	0.00	0.00	1.134	137.40	337	137.39	337
60.0	0.00	0.00	0.00	1.134	137.45	337	137.44	337
70.0	0.00	0.00	0.00	1.134	137.49	337	137.49	337
80.0	0.00	0.00	0.00	1.134	137.53	337	137.53	337
90.0	0.00	0.00	0.00	1.134	137.56	337	137.56	337
100.0	0.00	0.00	0.00	1.134	137.59	337	137.59	337
110.0	0.00	0.00	0.00	1.134	137.62	337	137.62	337
120.0	0.00	0.00	0.00	1.134	137.65	337	137.65	337
130.0	0.00	0.00	0.00	1.134	137.68	337	137.68	337
167.0	0.00	0.00	0.00	1.134	137.80	337	137.80	337
212.0	0.00	0.00	0.00	1.134	137.93	337	137.93	337

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.93

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-5	2-5	2-5	2-6	2-6	2-6	2-7	2-7	2-7	2-7
100.00	4-3	4-4	4-4	4-5	4-5	4-6	4-7	4-7	4-7	4-8
125.00	6-8	6-9	6-10	6-11	7-0	7-1	7-1	7-2	7-2	7-3
150.00	9-7	9-9	9-10	9-11	10-1	10-2	10-3	10-4	10-5	10-5
175.00	13-1	13-3	13-5	13-7	13-9	13-11	14-0	14-1	14-2	14-3
200.00	17-2	17-4	17-7	17-9	18-0	18-2	18-4	18-5	18-7	18-8

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-5	2-5	2-5	2-6	2-6	2-6	2-7	2-7	2-7	2-7
100.00	4-3	4-4	4-4	4-5	4-6	4-6	4-7	4-7	4-7	4-8
125.00	6-8	6-9	6-10	6-11	7-0	7-1	7-1	7-2	7-2	7-3
150.00	9-8	9-9	9-10	10-0	10-1	10-2	10-3	10-4	10-5	10-5
175.00	13-2	13-4	13-6	13-7	13-9	13-11	14-0	14-1	14-2	14-3
200.00	17-3	17-5	17-8	17-10	18-0	18-2	18-4	18-5	18-7	18-8

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SHEET 94 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.94

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-5	4-5	4-5
125.00	6-9	6-9	6-9	6-9	6-10	6-10	6-10	6-10	6-10	6-11
150.00	9-8	9-9	9-9	9-10	9-10	9-10	9-10	9-11	9-11	9-11
175.00	13-3	13-3	13-4	13-4	13-5	13-5	13-6	13-6	13-6	13-6
200.00	17-4	17-5	17-5	17-6	17-6	17-7	17-8	17-8	17-8	17-9
225.00	22-0	22-1	22-2	22-2	22-3	22-4	22-5	22-5	22-5	22-6
250.00	27-3	27-4	27-5	27-6	27-7	27-8	27-9	27-9	27-10	27-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-5	4-5	4-5
125.00	6-9	6-9	6-9	6-10	6-10	6-10	6-10	6-10	6-10	6-11
150.00	9-9	9-9	9-9	9-10	9-10	9-10	9-10	9-11	9-11	9-11
175.00	13-3	13-3	13-4	13-4	13-5	13-5	13-6	13-6	13-6	13-6
200.00	17-4	17-5	17-5	17-6	17-7	17-7	17-8	17-8	17-8	17-9
225.00	22-0	22-1	22-2	22-3	22-3	22-4	22-5	22-5	22-5	22-6
250.00	27-3	27-4	27-5	27-6	27-7	27-8	27-9	27-9	27-10	27-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.95

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	10-0	10-0	10-0	10-0	10-0	10-0	10-1	10-1	10-1	10-1
175.00	13-7	13-8	13-8	13-8	13-8	13-8	13-8	13-9	13-9	13-9
200.00	17-10	17-10	17-10	17-11	17-11	17-11	17-11	18-0	18-0	18-0
225.00	22-7	22-8	22-8	22-8	22-9	22-9	22-9	22-10	22-10	22-10
250.00	28-0	28-0	28-1	28-1	28-2	28-2	28-3	28-3	28-3	28-3
275.00	34-0	34-1	34-1	34-2	34-2	34-3	34-3	34-3	34-4	34-4
300.00	40-7	40-8	40-9	40-9	40-10	40-10	40-11	40-11	41-0	41-0
325.00	47-10	47-11	48-0	48-1	48-1	48-2	48-3	48-3	48-4	48-4
350.00	55-9	55-10	55-11	56-0	56-0	56-1	56-2	56-3	56-3	56-4
375.00	64-4	64-5	64-6	64-7	64-8	64-9	64-9	64-10	64-11	64-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	10-0	10-0	10-0	10-0	10-0	10-0	10-1	10-1	10-1	10-1
175.00	13-7	13-8	13-8	13-8	13-8	13-8	13-8	13-9	13-9	13-9
200.00	17-10	17-10	17-10	17-11	17-11	17-11	17-11	18-0	18-0	18-0
225.00	22-7	22-8	22-8	22-8	22-9	22-9	22-9	22-10	22-10	22-10
250.00	28-0	28-1	28-1	28-1	28-2	28-2	28-3	28-3	28-3	28-3
275.00	34-0	34-1	34-1	34-2	34-2	34-3	34-3	34-3	34-4	34-4
300.00	40-8	40-8	40-9	40-9	40-10	40-11	40-11	40-11	41-0	41-0
325.00	47-11	47-11	48-0	48-1	48-1	48-2	48-3	48-3	48-4	48-4
350.00	55-9	55-10	55-11	56-0	56-1	56-1	56-2	56-3	56-3	56-4
375.00	64-4	64-5	64-6	64-7	64-8	64-9	64-9	64-10	64-11	64-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.96

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	18-8	18-9	18-9	18-9	18-9	18-9	18-9	18-9	18-9	18-10
225.00	23-9	23-9	23-9	23-9	23-10	23-10	23-10	23-10	23-10	23-10
250.00	29-5	29-5	29-5	29-6	29-6	29-6	29-6	29-6	29-7	29-7
275.00	35-9	35-9	35-9	35-9	35-10	35-10	35-10	35-10	35-11	35-11
300.00	42-8	42-9	42-9	42-9	42-10	42-10	42-10	42-10	42-11	42-11
325.00	50-4	50-4	50-5	50-5	50-5	50-6	50-6	50-6	50-7	50-7
350.00	58-8	58-8	58-9	58-9	58-9	58-10	58-10	58-11	58-11	58-11
375.00	67-8	67-8	67-9	67-9	67-10	67-11	67-11	67-11	68-0	68-0
400.00	77-5	77-5	77-6	77-7	77-7	77-8	77-8	77-9	77-9	77-10
425.00	87-11	87-11	88-0	88-1	88-1	88-2	88-3	88-3	88-4	88-4
450.00	99-2	99-2	99-3	99-4	99-5	99-6	99-6	99-7	99-7	99-8
475.00	111-2	111-3	111-4	111-5	111-6	111-7	111-8	111-8	111-9	111-9
500.00	124-1	124-2	124-3	124-4	124-5	124-6	124-7	124-7	124-8	124-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	18-8	18-9	18-9	18-9	18-9	18-9	18-9	18-9	18-9	18-10
225.00	23-9	23-9	23-9	23-10	23-10	23-10	23-10	23-10	23-10	23-10
250.00	29-5	29-5	29-5	29-6	29-6	29-6	29-6	29-6	29-7	29-7
275.00	35-9	35-9	35-9	35-10	35-10	35-10	35-10	35-10	35-11	35-11
300.00	42-8	42-9	42-9	42-9	42-10	42-10	42-10	42-10	42-11	42-11
325.00	50-4	50-4	50-5	50-5	50-5	50-6	50-6	50-6	50-7	50-7
350.00	58-8	58-8	58-9	58-9	58-10	58-10	58-10	58-11	58-11	58-11
375.00	67-8	67-9	67-9	67-10	67-10	67-11	67-11	67-11	68-0	68-0
400.00	77-5	77-6	77-6	77-7	77-7	77-8	77-8	77-9	77-9	77-10
425.00	87-11	88-0	88-0	88-1	88-2	88-2	88-3	88-3	88-4	88-4
450.00	99-2	99-3	99-4	99-4	99-5	99-6	99-6	99-7	99-7	99-8
475.00	111-2	111-3	111-4	111-5	111-6	111-7	111-8	111-8	111-9	111-9
500.00	124-1	124-2	124-3	124-4	124-5	124-6	124-7	124-7	124-8	124-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.97

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	32-3	32-3	32-3	32-3	32-3	32-3	32-3	32-3	32-3	32-4
275.00	39-2	39-2	39-2	39-2	39-2	39-3	39-3	39-3	39-3	39-3
300.00	46-10	46-10	46-10	46-10	46-11	46-11	46-11	46-11	46-11	46-11
325.00	55-3	55-3	55-3	55-4	55-4	55-4	55-4	55-4	55-4	55-5
350.00	64-5	64-5	64-6	64-6	64-6	64-6	64-7	64-7	64-7	64-7
375.00	74-5	74-5	74-6	74-6	74-6	74-7	74-7	74-7	74-7	74-7
400.00	85-3	85-3	85-3	85-4	85-4	85-4	85-5	85-5	85-5	85-5
425.00	96-11	96-11	96-11	97-0	97-0	97-1	97-1	97-1	97-1	97-2
450.00	109-5	109-5	109-6	109-6	109-7	109-7	109-8	109-8	109-8	109-9
475.00	122-10	122-11	122-11	123-0	123-0	123-1	123-1	123-2	123-2	123-2
500.00	137-3	137-3	137-4	137-5	137-5	137-6	137-6	137-7	137-7	137-7
525.00	152-7	152-8	152-9	152-9	152-10	152-11	152-11	153-0	153-0	153-0
550.00	169-0	169-1	169-1	169-2	169-3	169-4	169-4	169-5	169-5	169-6
575.00	186-5	186-6	186-7	186-8	186-9	186-9	186-10	186-11	186-11	187-0
600.00	205-0	205-1	205-2	205-3	205-4	205-5	205-5	205-6	205-7	205-7
625.00	224-8	224-9	224-10	224-11	225-1	225-2	225-3	225-3	225-4	225-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	32-3	32-3	32-3	32-3	32-3	32-3	32-3	32-3	32-3	32-4
275.00	39-2	39-2	39-2	39-2	39-2	39-3	39-3	39-3	39-3	39-3
300.00	46-10	46-10	46-10	46-10	46-11	46-11	46-11	46-11	46-11	46-11
325.00	55-3	55-3	55-3	55-4	55-4	55-4	55-4	55-4	55-4	55-5
350.00	64-5	64-6	64-6	64-6	64-6	64-7	64-7	64-7	64-7	64-7
375.00	74-5	74-5	74-6	74-6	74-6	74-7	74-7	74-7	74-7	74-7
400.00	85-3	85-3	85-3	85-4	85-4	85-4	85-5	85-5	85-5	85-5
425.00	96-11	96-11	96-11	97-0	97-0	97-1	97-1	97-1	97-1	97-2
450.00	109-5	109-6	109-6	109-6	109-7	109-7	109-8	109-8	109-8	109-9
475.00	122-10	122-11	122-11	123-0	123-0	123-1	123-1	123-2	123-2	123-2
500.00	137-3	137-4	137-4	137-5	137-5	137-6	137-6	137-7	137-7	137-7
525.00	152-7	152-8	152-9	152-9	152-10	152-11	152-11	153-0	153-0	153-0
550.00	169-0	169-1	169-2	169-2	169-3	169-4	169-4	169-5	169-5	169-6
575.00	186-5	186-6	186-7	186-8	186-9	186-10	186-10	186-11	186-11	187-0
600.00	205-0	205-1	205-2	205-3	205-4	205-5	205-5	205-6	205-7	205-7
625.00	224-9	224-10	224-11	225-0	225-1	225-2	225-3	225-3	225-4	225-4

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SHEET 98 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.98

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	5.041	3.16	2000	3.16	2000*
0.0	0.00	0.00	0.00	1.134	3.04	468	3.01	473
30.0	0.00	0.00	0.00	1.134	3.26	437	3.23	441
40.0	0.00	0.00	0.00	1.134	3.32	428	3.30	432
50.0	0.00	0.00	0.00	1.134	3.39	420	3.36	424
60.0	0.00	0.00	0.00	1.134	3.45	412	3.43	416
70.0	0.00	0.00	0.00	1.134	3.52	405	3.49	408
80.0	0.00	0.00	0.00	1.134	3.55	401	3.55	401
90.0	0.00	0.00	0.00	1.134	3.60	396	3.60	396
100.0	0.00	0.00	0.00	1.134	3.63	392	3.63	392
110.0	0.00	0.00	0.00	1.134	3.67	388	3.67	388
120.0	0.00	0.00	0.00	1.134	3.71	385	3.71	385
130.0	0.00	0.00	0.00	1.134	3.74	381	3.74	381
167.0	0.00	0.00	0.00	1.134	3.87	369	3.87	369
212.0	0.00	0.00	0.00	1.134	4.02	355	4.02	355

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	5.041	12.81	2000	12.81	2000*
0.0	0.00	0.00	0.00	1.134	12.69	454	12.66	455
30.0	0.00	0.00	0.00	1.134	12.90	447	12.88	448
40.0	0.00	0.00	0.00	1.134	12.97	444	12.94	445
50.0	0.00	0.00	0.00	1.134	13.04	442	13.01	443
60.0	0.00	0.00	0.00	1.134	13.11	440	13.08	441
70.0	0.00	0.00	0.00	1.134	13.18	438	13.15	439
80.0	0.00	0.00	0.00	1.134	13.23	436	13.22	437
90.0	0.00	0.00	0.00	1.134	13.28	434	13.28	434
100.0	0.00	0.00	0.00	1.134	13.32	433	13.32	433
110.0	0.00	0.00	0.00	1.134	13.36	432	13.36	432
120.0	0.00	0.00	0.00	1.134	13.40	431	13.40	431
130.0	0.00	0.00	0.00	1.134	13.44	429	13.44	429
167.0	0.00	0.00	0.00	1.134	13.59	425	13.59	425
212.0	0.00	0.00	0.00	1.134	13.77	420	13.77	420

* Design Condition

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SHEET 99 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.99

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	5.041	29.45	2000	29.45	2000*
0.0	0.00	0.00	0.00	1.134	29.33	452	29.30	452
30.0	0.00	0.00	0.00	1.134	29.55	449	29.52	449
40.0	0.00	0.00	0.00	1.134	29.61	448	29.59	448
50.0	0.00	0.00	0.00	1.134	29.68	447	29.66	447
60.0	0.00	0.00	0.00	1.134	29.75	446	29.72	446
70.0	0.00	0.00	0.00	1.134	29.82	445	29.79	445
80.0	0.00	0.00	0.00	1.134	29.88	444	29.86	444
90.0	0.00	0.00	0.00	1.134	29.93	443	29.93	443
100.0	0.00	0.00	0.00	1.134	29.97	443	29.97	443
110.0	0.00	0.00	0.00	1.134	30.02	442	30.02	442
120.0	0.00	0.00	0.00	1.134	30.06	442	30.06	442
130.0	0.00	0.00	0.00	1.134	30.10	441	30.10	441
167.0	0.00	0.00	0.00	1.134	30.25	439	30.25	439
212.0	0.00	0.00	0.00	1.134	30.44	436	30.44	436

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	5.041	54.12	2000	54.12	2000*
0.0	0.00	0.00	0.00	1.134	54.00	451	53.97	451
30.0	0.00	0.00	0.00	1.134	54.21	449	54.19	449
40.0	0.00	0.00	0.00	1.134	54.28	449	54.25	449
50.0	0.00	0.00	0.00	1.134	54.35	448	54.32	448
60.0	0.00	0.00	0.00	1.134	54.42	448	54.39	448
70.0	0.00	0.00	0.00	1.134	54.49	447	54.46	448
80.0	0.00	0.00	0.00	1.134	54.55	447	54.53	447
90.0	0.00	0.00	0.00	1.134	54.60	447	54.60	447
100.0	0.00	0.00	0.00	1.134	54.64	446	54.64	446
110.0	0.00	0.00	0.00	1.134	54.69	446	54.69	446
120.0	0.00	0.00	0.00	1.134	54.73	446	54.73	446
130.0	0.00	0.00	0.00	1.134	54.77	445	54.77	445
167.0	0.00	0.00	0.00	1.134	54.92	444	54.92	444
212.0	0.00	0.00	0.00	1.134	55.11	443	55.11	443

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.100

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	5.041	88.79	2000	88.79	2000*
0.0	0.00	0.00	0.00	1.134	88.67	450	88.64	451
30.0	0.00	0.00	0.00	1.134	88.88	450	88.85	450
40.0	0.00	0.00	0.00	1.134	88.95	449	88.92	449
50.0	0.00	0.00	0.00	1.134	89.02	449	88.99	449
60.0	0.00	0.00	0.00	1.134	89.09	449	89.06	449
70.0	0.00	0.00	0.00	1.134	89.16	449	89.13	449
80.0	0.00	0.00	0.00	1.134	89.21	448	89.19	448
90.0	0.00	0.00	0.00	1.134	89.26	448	89.26	448
100.0	0.00	0.00	0.00	1.134	89.31	448	89.31	448
110.0	0.00	0.00	0.00	1.134	89.35	448	89.35	448
120.0	0.00	0.00	0.00	1.134	89.39	448	89.39	448
130.0	0.00	0.00	0.00	1.134	89.43	447	89.43	447
167.0	0.00	0.00	0.00	1.134	89.59	447	89.59	447
212.0	0.00	0.00	0.00	1.134	89.78	446	89.78	446

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-9	1-10	1-10	1-11	1-11	2-0	2-0	2-0	2-1	2-1
100.00	3-2	3-3	3-4	3-4	3-5	3-6	3-7	3-7	3-8	3-8
125.00	4-11	5-1	5-2	5-3	5-4	5-5	5-7	5-8	5-8	5-9
150.00	7-1	7-3	7-5	7-7	7-9	7-10	8-0	8-1	8-2	8-3
175.00	9-8	9-11	10-1	10-4	10-6	10-9	10-11	11-1	11-2	11-3
200.00	12-8	13-0	13-3	13-6	13-9	14-0	14-3	14-6	14-7	14-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-10	1-10	1-10	1-11	1-11	2-0	2-0	2-0	2-1	2-1
100.00	3-2	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-8
125.00	5-0	5-1	5-2	5-4	5-5	5-6	5-7	5-8	5-8	5-9
150.00	7-2	7-4	7-6	7-8	7-9	7-11	8-0	8-1	8-2	8-3
175.00	9-10	10-0	10-3	10-5	10-7	10-10	10-11	11-1	11-2	11-3
200.00	12-10	13-1	13-4	13-7	13-11	14-2	14-3	14-6	14-7	14-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.102

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-2	3-2	3-3	3-3	3-3	3-3	3-3	3-4	3-4	3-4
125.00	5-0	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-2	5-2
150.00	7-2	7-3	7-3	7-4	7-4	7-5	7-5	7-5	7-6	7-6
175.00	9-10	9-10	9-11	9-11	10-0	10-1	10-1	10-2	10-2	10-3
200.00	12-10	12-11	12-11	13-0	13-1	13-2	13-3	13-3	13-4	13-4
225.00	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-10	16-11	16-11
250.00	20-1	20-2	20-3	20-5	20-6	20-7	20-9	20-10	20-11	20-11

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-2	3-3	3-3	3-3	3-3	3-3	3-4	3-4	3-4	3-4
125.00	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-2	5-2	5-2
150.00	7-2	7-3	7-3	7-4	7-4	7-5	7-5	7-5	7-6	7-6
175.00	9-10	9-10	9-11	10-0	10-0	10-1	10-1	10-2	10-2	10-3
200.00	12-10	12-11	13-0	13-1	13-1	13-2	13-3	13-3	13-4	13-4
225.00	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-10	16-11	16-11
250.00	20-1	20-3	20-4	20-5	20-7	20-8	20-9	20-10	20-11	20-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 103 OF 362

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.103

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-4	7-4	7-4	7-4	7-4	7-5	7-5	7-5	7-5	7-5
175.00	9-11	10-0	10-0	10-0	10-0	10-1	10-1	10-1	10-1	10-2
200.00	13-0	13-0	13-1	13-1	13-1	13-2	13-2	13-2	13-3	13-3
225.00	16-6	16-6	16-7	16-7	16-8	16-8	16-8	16-9	16-9	16-9
250.00	20-4	20-5	20-6	20-6	20-7	20-7	20-8	20-8	20-9	20-9
275.00	24-8	24-9	24-10	24-10	24-11	25-0	25-0	25-1	25-2	25-2
300.00	29-5	29-6	29-7	29-8	29-9	29-10	29-10	29-11	30-0	30-0
325.00	34-8	34-9	34-10	34-11	35-0	35-1	35-1	35-2	35-3	35-4
350.00	40-3	40-4	40-5	40-7	40-8	40-9	40-10	40-11	41-0	41-1
375.00	46-4	46-5	46-7	46-8	46-9	46-11	47-0	47-1	47-2	47-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-4	7-4	7-4	7-4	7-4	7-5	7-5	7-5	7-5	7-5
175.00	9-11	10-0	10-0	10-0	10-0	10-1	10-1	10-1	10-1	10-2
200.00	13-0	13-0	13-1	13-1	13-2	13-2	13-2	13-2	13-3	13-3
225.00	16-6	16-6	16-7	16-7	16-8	16-8	16-9	16-9	16-9	16-9
250.00	20-5	20-5	20-6	20-6	20-7	20-8	20-8	20-8	20-9	20-9
275.00	24-9	24-9	24-10	24-11	24-11	25-0	25-1	25-1	25-2	25-2
300.00	29-6	29-7	29-7	29-8	29-9	29-10	29-11	29-11	30-0	30-0
325.00	34-8	34-9	34-10	34-11	35-0	35-1	35-2	35-2	35-3	35-4
350.00	40-4	40-5	40-6	40-7	40-8	40-9	40-10	40-11	41-0	41-1
375.00	46-5	46-6	46-7	46-9	46-10	46-11	47-0	47-1	47-2	47-3

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SHEET 104 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.104

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	13-4	13-4	13-4	13-4	13-4	13-5	13-5	13-5	13-5	13-5
225.00	16-10	16-10	16-11	16-11	16-11	16-11	17-0	17-0	17-0	17-0
250.00	20-10	20-10	20-11	20-11	20-11	21-0	21-0	21-0	21-0	21-1
275.00	25-3	25-4	25-4	25-4	25-5	25-5	25-5	25-6	25-6	25-6
300.00	30-2	30-2	30-2	30-3	30-3	30-4	30-4	30-5	30-5	30-5
325.00	35-5	35-6	35-6	35-7	35-7	35-8	35-9	35-9	35-9	35-10
350.00	41-2	41-3	41-4	41-4	41-5	41-6	41-6	41-7	41-7	41-8
375.00	47-5	47-6	47-7	47-7	47-8	47-9	47-9	47-10	47-11	47-11
400.00	54-1	54-2	54-3	54-4	54-5	54-6	54-6	54-7	54-8	54-8
425.00	61-3	61-4	61-5	61-6	61-7	61-8	61-9	61-10	61-11	61-11
450.00	68-11	69-0	69-1	69-2	69-3	69-4	69-5	69-6	69-7	69-8
475.00	77-0	77-2	77-3	77-4	77-5	77-6	77-8	77-9	77-10	77-10
500.00	85-8	85-9	85-11	86-0	86-1	86-3	86-4	86-5	86-6	86-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	13-4	13-4	13-4	13-4	13-4	13-5	13-5	13-5	13-5	13-5
225.00	16-10	16-11	16-11	16-11	16-11	17-0	17-0	17-0	17-0	17-0
250.00	20-10	20-11	20-11	20-11	20-11	21-0	21-0	21-0	21-0	21-1
275.00	25-3	25-4	25-4	25-4	25-5	25-5	25-6	25-6	25-6	25-6
300.00	30-2	30-2	30-3	30-3	30-4	30-4	30-4	30-5	30-5	30-5
325.00	35-6	35-6	35-7	35-7	35-8	35-8	35-9	35-9	35-9	35-10
350.00	41-3	41-3	41-4	41-5	41-5	41-6	41-6	41-7	41-7	41-8
375.00	47-5	47-6	47-7	47-8	47-8	47-9	47-10	47-10	47-11	47-11
400.00	54-2	54-3	54-3	54-4	54-5	54-6	54-7	54-7	54-8	54-8
425.00	61-4	61-5	61-6	61-7	61-7	61-8	61-9	61-10	61-11	61-11
450.00	68-11	69-0	69-2	69-3	69-4	69-5	69-6	69-6	69-7	69-8
475.00	77-1	77-2	77-3	77-5	77-6	77-7	77-8	77-9	77-10	77-10
500.00	85-9	85-10	85-11	86-1	86-2	86-3	86-4	86-5	86-6	86-7

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SHEET 105 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.105

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	21-7	21-7	21-7	21-7	21-7	21-8	21-8	21-8	21-8	21-8
275.00	26-2	26-2	26-2	26-2	26-3	26-3	26-3	26-3	26-3	26-4
300.00	31-2	31-2	31-3	31-3	31-3	31-4	31-4	31-4	31-4	31-4
325.00	36-8	36-9	36-9	36-9	36-9	36-10	36-10	36-10	36-11	36-11
350.00	42-8	42-8	42-9	42-9	42-9	42-10	42-10	42-11	42-11	42-11
375.00	49-1	49-2	49-2	49-3	49-3	49-3	49-4	49-4	49-5	49-5
400.00	56-0	56-1	56-1	56-2	56-2	56-3	56-3	56-4	56-4	56-5
425.00	63-6	63-6	63-7	63-7	63-8	63-8	63-9	63-10	63-10	63-10
450.00	71-5	71-5	71-6	71-7	71-7	71-8	71-9	71-9	71-10	71-10
475.00	79-10	79-11	79-11	80-0	80-1	80-2	80-2	80-3	80-4	80-4
500.00	88-9	88-10	88-11	89-0	89-1	89-2	89-2	89-3	89-4	89-4
525.00	98-3	98-4	98-5	98-6	98-7	98-8	98-9	98-10	98-10	98-11
550.00	108-4	108-5	108-6	108-7	108-8	108-9	108-10	108-11	108-11	109-0
575.00	118-11	119-0	119-1	119-2	119-3	119-4	119-5	119-7	119-7	119-8
600.00	130-0	130-2	130-3	130-4	130-5	130-7	130-8	130-9	130-10	130-11
625.00	141-9	141-11	142-0	142-1	142-3	142-4	142-5	142-7	142-8	142-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	21-7	21-7	21-7	21-7	21-8	21-8	21-8	21-8	21-8	21-8
275.00	26-2	26-2	26-2	26-2	26-3	26-3	26-3	26-3	26-3	26-4
300.00	31-2	31-3	31-3	31-3	31-3	31-4	31-4	31-4	31-4	31-4
325.00	36-8	36-9	36-9	36-9	36-10	36-10	36-10	36-10	36-11	36-11
350.00	42-8	42-8	42-9	42-9	42-10	42-10	42-10	42-11	42-11	42-11
375.00	49-1	49-2	49-2	49-3	49-3	49-4	49-4	49-4	49-5	49-5
400.00	56-1	56-1	56-2	56-2	56-3	56-3	56-4	56-4	56-4	56-5
425.00	63-6	63-6	63-7	63-8	63-8	63-9	63-9	63-10	63-10	63-10
450.00	71-5	71-6	71-6	71-7	71-8	71-8	71-9	71-9	71-10	71-10
475.00	79-10	79-11	80-0	80-0	80-1	80-2	80-3	80-3	80-4	80-4
500.00	88-10	88-11	88-11	89-0	89-1	89-2	89-3	89-3	89-4	89-4
525.00	98-4	98-5	98-5	98-6	98-7	98-8	98-9	98-10	98-10	98-11
550.00	108-4	108-5	108-6	108-7	108-8	108-9	108-10	108-11	108-11	109-0
575.00	118-11	119-0	119-1	119-2	119-4	119-5	119-6	119-7	119-7	119-8
600.00	130-1	130-2	130-3	130-5	130-6	130-7	130-8	130-9	130-10	130-11
625.00	141-10	141-11	142-0	142-2	142-3	142-5	142-6	142-7	142-8	142-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.106

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	5.041	2.53	2500	2.53	2500*
0.0	0.00	0.00	0.00	1.134	2.34	606	2.29	620
30.0	0.00	0.00	0.00	1.134	2.61	545	2.56	554
40.0	0.00	0.00	0.00	1.134	2.69	528	2.65	537
50.0	0.00	0.00	0.00	1.134	2.77	513	2.73	521
60.0	0.00	0.00	0.00	1.134	2.85	499	2.80	507
70.0	0.00	0.00	0.00	1.134	2.92	487	2.88	494
80.0	0.00	0.00	0.00	1.134	2.99	476	2.95	481
90.0	0.00	0.00	0.00	1.134	3.03	469	3.03	470
100.0	0.00	0.00	0.00	1.134	3.08	462	3.08	462
110.0	0.00	0.00	0.00	1.134	3.12	456	3.12	456
120.0	0.00	0.00	0.00	1.134	3.16	450	3.16	450
130.0	0.00	0.00	0.00	1.134	3.20	445	3.20	445
167.0	0.00	0.00	0.00	1.134	3.35	425	3.35	425
212.0	0.00	0.00	0.00	1.134	3.52	405	3.52	405

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	5.041	10.19	2500	10.19	2500*
0.0	0.00	0.00	0.00	1.134	10.00	573	9.95	575
30.0	0.00	0.00	0.00	1.134	10.27	558	10.22	560
40.0	0.00	0.00	0.00	1.134	10.36	553	10.31	556
50.0	0.00	0.00	0.00	1.134	10.44	549	10.40	551
60.0	0.00	0.00	0.00	1.134	10.53	545	10.48	547
70.0	0.00	0.00	0.00	1.134	10.61	540	10.56	543
80.0	0.00	0.00	0.00	1.134	10.69	536	10.65	539
90.0	0.00	0.00	0.00	1.134	10.76	533	10.73	535
100.0	0.00	0.00	0.00	1.134	10.81	531	10.81	531
110.0	0.00	0.00	0.00	1.134	10.87	528	10.87	528
120.0	0.00	0.00	0.00	1.134	10.92	526	10.92	526
130.0	0.00	0.00	0.00	1.134	10.96	523	10.96	523
167.0	0.00	0.00	0.00	1.134	11.14	515	11.14	515
212.0	0.00	0.00	0.00	1.134	11.36	506	11.36	506

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.107

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	5.041	23.23	2500	23.23	2500*
0.0	0.00	0.00	0.00	1.134	23.05	567	23.00	568
30.0	0.00	0.00	0.00	1.134	23.31	560	23.27	562
40.0	0.00	0.00	0.00	1.134	23.40	559	23.35	560
50.0	0.00	0.00	0.00	1.134	23.48	557	23.44	558
60.0	0.00	0.00	0.00	1.134	23.57	555	23.52	556
70.0	0.00	0.00	0.00	1.134	23.66	553	23.61	554
80.0	0.00	0.00	0.00	1.134	23.74	551	23.69	552
90.0	0.00	0.00	0.00	1.134	23.81	549	23.78	550
100.0	0.00	0.00	0.00	1.134	23.87	548	23.86	548
110.0	0.00	0.00	0.00	1.134	23.93	547	23.93	547
120.0	0.00	0.00	0.00	1.134	23.98	546	23.98	546
130.0	0.00	0.00	0.00	1.134	24.03	544	24.03	544
167.0	0.00	0.00	0.00	1.134	24.22	540	24.22	540
212.0	0.00	0.00	0.00	1.134	24.45	536	24.45	536

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	5.041	42.12	2500	42.12	2500*
0.0	0.00	0.00	0.00	1.134	41.94	565	41.89	565
30.0	0.00	0.00	0.00	1.134	42.20	561	42.16	562
40.0	0.00	0.00	0.00	1.134	42.29	560	42.24	561
50.0	0.00	0.00	0.00	1.134	42.38	559	42.33	560
60.0	0.00	0.00	0.00	1.134	42.46	558	42.42	559
70.0	0.00	0.00	0.00	1.134	42.55	557	42.50	558
80.0	0.00	0.00	0.00	1.134	42.64	556	42.59	557
90.0	0.00	0.00	0.00	1.134	42.71	555	42.67	556
100.0	0.00	0.00	0.00	1.134	42.76	555	42.76	555
110.0	0.00	0.00	0.00	1.134	42.83	554	42.83	554
120.0	0.00	0.00	0.00	1.134	42.88	553	42.88	553
130.0	0.00	0.00	0.00	1.134	42.93	553	42.93	553
167.0	0.00	0.00	0.00	1.134	43.13	550	43.13	550
212.0	0.00	0.00	0.00	1.134	43.36	548	43.36	548

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.108

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	5.041	67.65	2500	67.65	2500*
0.0	0.00	0.00	0.00	1.134	67.47	564	67.42	564
30.0	0.00	0.00	0.00	1.134	67.73	562	67.69	562
40.0	0.00	0.00	0.00	1.134	67.82	561	67.77	562
50.0	0.00	0.00	0.00	1.134	67.91	561	67.86	561
60.0	0.00	0.00	0.00	1.134	67.99	560	67.94	560
70.0	0.00	0.00	0.00	1.134	68.08	559	68.03	560
80.0	0.00	0.00	0.00	1.134	68.16	559	68.12	559
90.0	0.00	0.00	0.00	1.134	68.24	558	68.20	558
100.0	0.00	0.00	0.00	1.134	68.29	558	68.29	558
110.0	0.00	0.00	0.00	1.134	68.36	557	68.36	557
120.0	0.00	0.00	0.00	1.134	68.41	557	68.41	557
130.0	0.00	0.00	0.00	1.134	68.46	557	68.46	557
167.0	0.00	0.00	0.00	1.134	68.66	555	68.66	555
212.0	0.00	0.00	0.00	1.134	68.89	554	68.89	554

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-5	1-5	1-6	1-6	1-7	1-7	1-8	1-8	1-9	1-9
100.00	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-1
125.00	3-11	4-0	4-2	4-3	4-5	4-6	4-7	4-9	4-10	4-11
150.00	5-7	5-9	6-0	6-2	6-4	6-6	6-8	6-10	6-11	7-0
175.00	7-7	7-10	8-1	8-4	8-7	8-10	9-1	9-4	9-5	9-7
200.00	9-11	10-3	10-7	10-11	11-3	11-7	11-10	12-2	12-4	12-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-5	1-6	1-6	1-7	1-7	1-8	1-8	1-8	1-9	1-9
100.00	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-1
125.00	3-11	4-1	4-2	4-4	4-5	4-7	4-8	4-9	4-10	4-11
150.00	5-8	5-11	6-1	6-3	6-5	6-7	6-9	6-10	6-11	7-0
175.00	7-9	8-0	8-3	8-6	8-9	9-0	9-2	9-4	9-5	9-7
200.00	10-1	10-6	10-10	11-1	11-5	11-9	12-0	12-2	12-4	12-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.110

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-6	2-7	2-7	2-7	2-7	2-8	2-8	2-8	2-8	2-9
125.00	3-11	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-3	4-3
150.00	5-8	5-9	5-9	5-10	5-11	5-11	6-0	6-0	6-1	6-1
175.00	7-9	7-10	7-11	7-11	8-0	8-1	8-2	8-2	8-3	8-4
200.00	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-10
225.00	12-10	12-11	13-1	13-2	13-3	13-5	13-6	13-7	13-8	13-9
250.00	15-10	16-0	16-2	16-3	16-5	16-6	16-8	16-10	16-11	17-0

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-6	2-7	2-7	2-7	2-7	2-8	2-8	2-8	2-8	2-9
125.00	4-0	4-0	4-0	4-1	4-1	4-2	4-2	4-2	4-3	4-3
150.00	5-9	5-9	5-10	5-10	5-11	5-11	6-0	6-0	6-1	6-1
175.00	7-9	7-10	7-11	8-0	8-1	8-1	8-2	8-3	8-3	8-4
200.00	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-10
225.00	12-11	13-0	13-1	13-3	13-4	13-5	13-7	13-8	13-8	13-9
250.00	15-11	16-1	16-3	16-4	16-6	16-7	16-9	16-10	16-11	17-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.111

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-9	5-9	5-10	5-10	5-10	5-10	5-11	5-11	5-11	5-11
175.00	7-10	7-11	7-11	7-11	8-0	8-0	8-0	8-1	8-1	8-1
200.00	10-3	10-4	10-4	10-4	10-5	10-5	10-6	10-6	10-7	10-7
225.00	13-0	13-1	13-1	13-2	13-2	13-3	13-3	13-4	13-4	13-5
250.00	16-1	16-1	16-2	16-3	16-4	16-4	16-5	16-6	16-6	16-7
275.00	19-5	19-6	19-7	19-8	19-9	19-10	19-11	19-11	20-0	20-1
300.00	23-2	23-3	23-4	23-5	23-6	23-7	23-8	23-9	23-10	23-11
325.00	27-3	27-4	27-5	27-7	27-8	27-9	27-10	27-11	28-1	28-2
350.00	31-8	31-9	31-11	32-0	32-1	32-3	32-4	32-6	32-7	32-8
375.00	36-5	36-6	36-8	36-9	36-11	37-1	37-2	37-4	37-6	37-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-9	5-10	5-10	5-10	5-10	5-11	5-11	5-11	5-11	5-11
175.00	7-10	7-11	7-11	7-11	8-0	8-0	8-0	8-1	8-1	8-1
200.00	10-3	10-4	10-4	10-5	10-5	10-6	10-6	10-6	10-7	10-7
225.00	13-0	13-1	13-1	13-2	13-3	13-3	13-4	13-4	13-5	13-5
250.00	16-1	16-2	16-3	16-3	16-4	16-5	16-5	16-6	16-6	16-7
275.00	19-6	19-7	19-8	19-9	19-9	19-10	19-11	20-0	20-0	20-1
300.00	23-3	23-4	23-5	23-6	23-7	23-8	23-9	23-10	23-10	23-11
325.00	27-4	27-5	27-6	27-7	27-8	27-10	27-11	28-0	28-1	28-2
350.00	31-8	31-10	31-11	32-1	32-2	32-4	32-5	32-6	32-7	32-8
375.00	36-5	36-7	36-9	36-10	37-0	37-2	37-3	37-5	37-6	37-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-5	10-5	10-5	10-6	10-6	10-6	10-6	10-7	10-7	10-7
225.00	13-2	13-3	13-3	13-3	13-3	13-4	13-4	13-4	13-5	13-5
250.00	16-4	16-4	16-4	16-5	16-5	16-5	16-6	16-6	16-7	16-7
275.00	19-9	19-9	19-10	19-10	19-11	19-11	20-0	20-0	20-1	20-1
300.00	23-6	23-7	23-7	23-8	23-9	23-9	23-10	23-10	23-11	23-11
325.00	27-8	27-8	27-9	27-10	27-10	27-11	28-0	28-0	28-1	28-2
350.00	32-1	32-2	32-3	32-4	32-4	32-5	32-6	32-7	32-7	32-8
375.00	36-11	37-0	37-1	37-2	37-3	37-3	37-4	37-5	37-6	37-7
400.00	42-1	42-2	42-3	42-4	42-5	42-6	42-7	42-8	42-9	42-10
425.00	47-7	47-8	47-9	47-11	48-0	48-1	48-2	48-3	48-4	48-5
450.00	53-5	53-7	53-8	53-9	53-11	54-0	54-1	54-3	54-4	54-5
475.00	59-8	59-10	59-11	60-1	60-2	60-4	60-5	60-6	60-8	60-9
500.00	66-3	66-5	66-7	66-8	66-10	66-11	67-1	67-3	67-4	67-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-5	10-5	10-6	10-6	10-6	10-6	10-7	10-7	10-7	10-7
225.00	13-2	13-3	13-3	13-3	13-4	13-4	13-4	13-5	13-5	13-5
250.00	16-4	16-4	16-5	16-5	16-5	16-6	16-6	16-6	16-7	16-7
275.00	19-9	19-10	19-10	19-11	19-11	19-11	20-0	20-0	20-1	20-1
300.00	23-7	23-7	23-8	23-8	23-9	23-9	23-10	23-10	23-11	23-11
325.00	27-8	27-9	27-9	27-10	27-11	27-11	28-0	28-1	28-1	28-2
350.00	32-2	32-2	32-3	32-4	32-5	32-6	32-6	32-7	32-8	32-8
375.00	36-11	37-0	37-1	37-2	37-3	37-4	37-5	37-6	37-6	37-7
400.00	42-1	42-2	42-3	42-5	42-6	42-7	42-8	42-9	42-9	42-10
425.00	47-8	47-9	47-10	47-11	48-0	48-2	48-3	48-4	48-4	48-5
450.00	53-6	53-7	53-9	53-10	53-11	54-1	54-2	54-3	54-4	54-5
475.00	59-9	59-10	60-0	60-1	60-3	60-4	60-6	60-7	60-8	60-9
500.00	66-4	66-6	66-7	66-9	66-11	67-0	67-2	67-4	67-5	67-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.113

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	16-7	16-8	16-8	16-8	16-8	16-9	16-9	16-9	16-9	16-9
275.00	20-1	20-2	20-2	20-2	20-3	20-3	20-3	20-4	20-4	20-4
300.00	24-0	24-0	24-0	24-1	24-1	24-2	24-2	24-2	24-3	24-3
325.00	28-2	28-3	28-3	28-3	28-4	28-4	28-5	28-5	28-6	28-6
350.00	32-9	32-9	32-10	32-10	32-11	32-11	33-0	33-0	33-1	33-1
375.00	37-8	37-8	37-9	37-9	37-10	37-11	37-11	38-0	38-0	38-1
400.00	42-11	43-0	43-0	43-1	43-1	43-2	43-3	43-3	43-4	43-5
425.00	48-6	48-7	48-8	48-9	48-9	48-10	48-11	48-11	49-0	49-1
450.00	54-6	54-7	54-8	54-9	54-9	54-10	54-11	55-0	55-1	55-1
475.00	60-10	60-11	61-0	61-1	61-2	61-3	61-4	61-5	61-6	61-7
500.00	67-7	67-8	67-9	67-10	67-11	68-0	68-1	68-2	68-3	68-4
525.00	74-8	74-10	74-11	75-0	75-1	75-2	75-3	75-4	75-6	75-7
550.00	82-2	82-4	82-5	82-6	82-7	82-9	82-10	82-11	83-0	83-2
575.00	90-1	90-2	90-4	90-5	90-6	90-8	90-9	90-11	91-0	91-1
600.00	98-4	98-6	98-7	98-9	98-10	99-0	99-1	99-3	99-4	99-6
625.00	107-0	107-2	107-3	107-5	107-7	107-8	107-10	108-0	108-1	108-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	16-7	16-8	16-8	16-8	16-8	16-9	16-9	16-9	16-9	16-9
275.00	20-2	20-2	20-2	20-3	20-3	20-3	20-3	20-4	20-4	20-4
300.00	24-0	24-0	24-1	24-1	24-1	24-2	24-2	24-2	24-3	24-3
325.00	28-2	28-3	28-3	28-4	28-4	28-5	28-5	28-5	28-6	28-6
350.00	32-9	32-10	32-10	32-11	32-11	33-0	33-0	33-0	33-1	33-1
375.00	37-8	37-9	37-9	37-10	37-10	37-11	37-11	38-0	38-0	38-1
400.00	42-11	43-0	43-0	43-1	43-2	43-2	43-3	43-4	43-4	43-5
425.00	48-7	48-7	48-8	48-9	48-10	48-10	48-11	49-0	49-0	49-1
450.00	54-7	54-7	54-8	54-9	54-10	54-11	55-0	55-0	55-1	55-1
475.00	60-11	61-0	61-1	61-2	61-3	61-4	61-5	61-5	61-6	61-7
500.00	67-8	67-9	67-10	67-11	68-0	68-1	68-2	68-3	68-4	68-4
525.00	74-9	74-10	74-11	75-1	75-2	75-3	75-4	75-5	75-6	75-7
550.00	82-3	82-4	82-6	82-7	82-8	82-9	82-11	83-0	83-1	83-2
575.00	90-2	90-3	90-4	90-6	90-7	90-9	90-10	90-11	91-0	91-1
600.00	98-5	98-6	98-8	98-10	98-11	99-1	99-2	99-3	99-4	99-6
625.00	107-1	107-3	107-4	107-6	107-8	107-9	107-11	108-1	108-2	108-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.114

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	5.041	2.10	3000	2.10	3000*
0.0	0.00	0.00	0.00	1.134	1.84	771	1.77	803
30.0	0.00	0.00	0.00	1.134	2.16	657	2.10	678
40.0	0.00	0.00	0.00	1.134	2.26	629	2.19	647
50.0	0.00	0.00	0.00	1.134	2.35	604	2.29	621
60.0	0.00	0.00	0.00	1.134	2.44	582	2.38	597
70.0	0.00	0.00	0.00	1.134	2.53	562	2.47	576
80.0	0.00	0.00	0.00	1.134	2.61	544	2.55	557
90.0	0.00	0.00	0.00	1.134	2.67	533	2.64	539
100.0	0.00	0.00	0.00	1.134	2.72	523	2.72	523
110.0	0.00	0.00	0.00	1.134	2.77	514	2.77	514
120.0	0.00	0.00	0.00	1.134	2.81	506	2.81	506
130.0	0.00	0.00	0.00	1.134	2.85	498	2.85	498
167.0	0.00	0.00	0.00	1.134	3.01	472	3.01	472
212.0	0.00	0.00	0.00	1.134	3.20	445	3.20	445

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	5.041	8.46	3000	8.46	3000*
0.0	0.00	0.00	0.00	1.134	8.20	696	8.13	702
30.0	0.00	0.00	0.00	1.134	8.52	670	8.45	676
40.0	0.00	0.00	0.00	1.134	8.62	663	8.56	668
50.0	0.00	0.00	0.00	1.134	8.72	655	8.66	660
60.0	0.00	0.00	0.00	1.134	8.82	648	8.76	652
70.0	0.00	0.00	0.00	1.134	8.92	640	8.86	645
80.0	0.00	0.00	0.00	1.134	9.02	634	8.95	638
90.0	0.00	0.00	0.00	1.134	9.12	627	9.05	632
100.0	0.00	0.00	0.00	1.134	9.19	622	9.15	625
110.0	0.00	0.00	0.00	1.134	9.25	618	9.24	619
120.0	0.00	0.00	0.00	1.134	9.31	614	9.31	614
130.0	0.00	0.00	0.00	1.134	9.37	611	9.37	611
167.0	0.00	0.00	0.00	1.134	9.57	598	9.57	598
212.0	0.00	0.00	0.00	1.134	9.82	583	9.82	583

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.115

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	5.041	19.21	3000	19.21	3000*
0.0	0.00	0.00	0.00	1.134	18.96	684	18.88	686
30.0	0.00	0.00	0.00	1.134	19.27	673	19.20	675
40.0	0.00	0.00	0.00	1.134	19.38	669	19.31	672
50.0	0.00	0.00	0.00	1.134	19.48	666	19.41	668
60.0	0.00	0.00	0.00	1.134	19.58	663	19.51	665
70.0	0.00	0.00	0.00	1.134	19.68	659	19.61	662
80.0	0.00	0.00	0.00	1.134	19.79	656	19.72	658
90.0	0.00	0.00	0.00	1.134	19.89	653	19.82	655
100.0	0.00	0.00	0.00	1.134	19.97	650	19.92	652
110.0	0.00	0.00	0.00	1.134	20.03	648	20.02	649
120.0	0.00	0.00	0.00	1.134	20.11	646	20.11	646
130.0	0.00	0.00	0.00	1.134	20.17	644	20.17	644
167.0	0.00	0.00	0.00	1.134	20.39	637	20.39	637
212.0	0.00	0.00	0.00	1.134	20.65	629	20.65	629

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	5.041	34.61	3000	34.61	3000*
0.0	0.00	0.00	0.00	1.134	34.36	680	34.28	681
30.0	0.00	0.00	0.00	1.134	34.67	674	34.60	675
40.0	0.00	0.00	0.00	1.134	34.78	672	34.71	673
50.0	0.00	0.00	0.00	1.134	34.88	670	34.81	671
60.0	0.00	0.00	0.00	1.134	34.98	668	34.91	669
70.0	0.00	0.00	0.00	1.134	35.09	666	35.02	668
80.0	0.00	0.00	0.00	1.134	35.19	665	35.12	666
90.0	0.00	0.00	0.00	1.134	35.29	663	35.22	664
100.0	0.00	0.00	0.00	1.134	35.38	661	35.32	662
110.0	0.00	0.00	0.00	1.134	35.45	660	35.43	660
120.0	0.00	0.00	0.00	1.134	35.52	659	35.52	659
130.0	0.00	0.00	0.00	1.134	35.58	658	35.58	658
167.0	0.00	0.00	0.00	1.134	35.81	654	35.81	654
212.0	0.00	0.00	0.00	1.134	36.09	649	36.09	649

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.116

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	5.041	55.06	3000	55.06	3000*
0.0	0.00	0.00	0.00	1.134	54.81	678	54.73	679
30.0	0.00	0.00	0.00	1.134	55.12	674	55.06	675
40.0	0.00	0.00	0.00	1.134	55.23	673	55.16	674
50.0	0.00	0.00	0.00	1.134	55.33	672	55.26	673
60.0	0.00	0.00	0.00	1.134	55.43	671	55.37	672
70.0	0.00	0.00	0.00	1.134	55.54	670	55.47	670
80.0	0.00	0.00	0.00	1.134	55.64	669	55.57	669
90.0	0.00	0.00	0.00	1.134	55.74	667	55.67	668
100.0	0.00	0.00	0.00	1.134	55.84	666	55.78	667
110.0	0.00	0.00	0.00	1.134	55.90	666	55.88	666
120.0	0.00	0.00	0.00	1.134	55.98	665	55.98	665
130.0	0.00	0.00	0.00	1.134	56.04	664	56.04	664
167.0	0.00	0.00	0.00	1.134	56.27	662	56.27	662
212.0	0.00	0.00	0.00	1.134	56.55	659	56.55	659

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-1	1-2	1-3	1-3	1-4	1-5	1-5	1-6	1-6	1-7
100.00	2-0	2-1	2-2	2-3	2-5	2-6	2-7	2-8	2-9	2-9
125.00	3-1	3-3	3-5	3-7	3-9	3-10	4-0	4-1	4-3	4-4
150.00	4-6	4-9	4-11	5-2	5-4	5-7	5-9	5-11	6-1	6-3
175.00	6-1	6-5	6-9	7-0	7-4	7-7	7-10	8-1	8-4	8-6
200.00	8-0	8-5	8-9	9-2	9-6	9-11	10-3	10-7	10-11	11-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-3	1-3	1-4	1-4	1-5	1-6	1-6	1-6	1-7
100.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-9
125.00	3-3	3-5	3-6	3-8	3-10	3-11	4-1	4-2	4-3	4-4
150.00	4-8	4-10	5-1	5-4	5-6	5-8	5-11	6-0	6-1	6-3
175.00	6-4	6-7	6-11	7-3	7-6	7-9	8-0	8-2	8-4	8-6
200.00	8-3	8-8	9-1	9-5	9-9	10-2	10-6	10-9	10-11	11-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.118

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-1	2-1	2-2	2-2	2-2	2-3	2-3	2-3	2-3	2-4
125.00	3-3	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-7	3-7
150.00	4-8	4-9	4-10	4-10	4-11	5-0	5-0	5-1	5-2	5-2
175.00	6-5	6-6	6-7	6-7	6-8	6-9	6-10	6-11	7-0	7-1
200.00	8-4	8-5	8-7	8-8	8-9	8-10	8-11	9-1	9-2	9-3
225.00	10-7	10-8	10-10	11-0	11-1	11-3	11-4	11-6	11-7	11-8
250.00	13-1	13-3	13-5	13-7	13-8	13-10	14-0	14-2	14-4	14-6

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-1	2-2	2-2	2-2	2-2	2-3	2-3	2-3	2-4	2-4
125.00	3-3	3-4	3-4	3-5	3-5	3-6	3-6	3-7	3-7	3-7
150.00	4-9	4-9	4-10	4-11	4-11	5-0	5-1	5-1	5-2	5-2
175.00	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-0	7-1
200.00	8-5	8-6	8-7	8-9	8-10	8-11	9-0	9-1	9-2	9-3
225.00	10-8	10-9	10-11	11-1	11-2	11-4	11-5	11-7	11-8	11-9
250.00	13-2	13-4	13-6	13-8	13-10	14-0	14-1	14-3	14-5	14-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.119

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-9	4-9	4-10	4-10	4-10	4-11	4-11	4-11	4-11	5-0
175.00	6-6	6-6	6-7	6-7	6-7	6-8	6-8	6-9	6-9	6-9
200.00	8-6	8-6	8-7	8-7	8-8	8-8	8-9	8-9	8-10	8-10
225.00	10-9	10-9	10-10	10-11	10-11	11-0	11-1	11-1	11-2	11-3
250.00	13-3	13-4	13-5	13-5	13-6	13-7	13-8	13-9	13-10	13-11
275.00	16-0	16-1	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-10
300.00	19-1	19-2	19-4	19-5	19-6	19-7	19-9	19-10	19-11	20-0
325.00	22-5	22-7	22-8	22-10	22-11	23-1	23-2	23-3	23-5	23-6
350.00	26-1	26-2	26-4	26-6	26-7	26-9	26-11	27-0	27-2	27-4
375.00	29-11	30-1	30-3	30-5	30-7	30-9	30-11	31-1	31-3	31-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-9	4-10	4-10	4-10	4-10	4-11	4-11	4-11	5-0	5-0
175.00	6-6	6-6	6-7	6-7	6-8	6-8	6-8	6-9	6-9	6-9
200.00	8-6	8-6	8-7	8-8	8-8	8-9	8-9	8-10	8-10	8-10
225.00	10-9	10-10	10-10	10-11	11-0	11-1	11-1	11-2	11-2	11-3
250.00	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-9	13-10	13-11
275.00	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-10
300.00	19-2	19-3	19-5	19-6	19-7	19-8	19-9	19-11	20-0	20-0
325.00	22-6	22-8	22-9	22-11	23-0	23-1	23-3	23-4	23-6	23-6
350.00	26-2	26-3	26-5	26-7	26-8	26-10	27-0	27-1	27-3	27-4
375.00	30-0	30-2	30-4	30-6	30-8	30-10	31-0	31-2	31-4	31-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.120

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-7	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-9	8-9
225.00	10-10	10-11	10-11	10-11	11-0	11-0	11-0	11-1	11-1	11-2
250.00	13-5	13-5	13-6	13-6	13-7	13-7	13-8	13-8	13-9	13-9
275.00	16-3	16-3	16-4	16-4	16-5	16-6	16-6	16-7	16-7	16-8
300.00	19-4	19-5	19-5	19-6	19-7	19-7	19-8	19-9	19-9	19-10
325.00	22-8	22-9	22-10	22-11	23-0	23-0	23-1	23-2	23-3	23-4
350.00	26-4	26-5	26-6	26-7	26-8	26-9	26-10	26-11	27-0	27-1
375.00	30-3	30-5	30-6	30-7	30-8	30-9	30-10	30-11	31-0	31-1
400.00	34-6	34-7	34-8	34-10	34-11	35-0	35-1	35-3	35-4	35-5
425.00	39-0	39-1	39-3	39-4	39-6	39-7	39-8	39-10	39-11	40-1
450.00	43-9	43-11	44-1	44-2	44-4	44-5	44-7	44-8	44-10	44-11
475.00	48-10	49-0	49-2	49-3	49-5	49-7	49-9	49-10	50-0	50-2
500.00	54-2	54-4	54-6	54-8	54-10	55-0	55-2	55-4	55-6	55-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-7	8-7	8-8	8-8	8-8	8-8	8-9	8-9	8-9	8-10
225.00	10-10	10-11	10-11	11-0	11-0	11-0	11-1	11-1	11-1	11-2
250.00	13-5	13-6	13-6	13-7	13-7	13-7	13-8	13-8	13-9	13-9
275.00	16-3	16-4	16-4	16-5	16-5	16-6	16-7	16-7	16-8	16-8
300.00	19-4	19-5	19-6	19-6	19-7	19-8	19-8	19-9	19-10	19-10
325.00	22-9	22-10	22-11	22-11	23-0	23-1	23-2	23-3	23-3	23-4
350.00	26-5	26-6	26-7	26-8	26-9	26-10	26-11	26-11	27-0	27-1
375.00	30-4	30-5	30-6	30-7	30-9	30-10	30-11	31-0	31-1	31-1
400.00	34-7	34-8	34-9	34-11	35-0	35-1	35-2	35-4	35-5	35-5
425.00	39-1	39-2	39-4	39-5	39-7	39-8	39-9	39-11	40-0	40-1
450.00	43-10	44-0	44-2	44-3	44-5	44-6	44-8	44-9	44-11	45-0
475.00	48-11	49-1	49-3	49-5	49-6	49-8	49-10	50-0	50-1	50-2
500.00	54-4	54-6	54-8	54-10	55-0	55-2	55-4	55-6	55-7	55-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	13-7	13-7	13-8	13-8	13-8	13-8	13-9	13-9	13-9	13-10
275.00	16-5	16-6	16-6	16-6	16-7	16-7	16-7	16-8	16-8	16-9
300.00	19-7	19-7	19-8	19-8	19-9	19-9	19-10	19-10	19-10	19-11
325.00	23-0	23-1	23-1	23-2	23-2	23-3	23-3	23-4	23-4	23-5
350.00	26-9	26-9	26-10	26-10	26-11	27-0	27-0	27-1	27-1	27-2
375.00	30-8	30-9	30-10	30-10	30-11	31-0	31-1	31-1	31-2	31-3
400.00	35-0	35-0	35-1	35-2	35-3	35-4	35-4	35-5	35-6	35-7
425.00	39-6	39-7	39-8	39-9	39-10	39-11	40-0	40-1	40-1	40-2
450.00	44-5	44-6	44-7	44-8	44-9	44-10	44-11	45-0	45-1	45-1
475.00	49-6	49-7	49-8	49-10	49-11	50-0	50-1	50-2	50-3	50-4
500.00	54-11	55-1	55-2	55-3	55-4	55-6	55-7	55-8	55-9	55-11
525.00	60-8	60-10	60-11	61-0	61-2	61-3	61-4	61-6	61-7	61-8
550.00	66-9	66-10	67-0	67-1	67-3	67-4	67-6	67-7	67-9	67-10
575.00	73-0	73-2	73-4	73-5	73-7	73-9	73-10	74-0	74-2	74-3
600.00	79-8	79-10	80-0	80-2	80-3	80-5	80-7	80-9	80-11	81-0
625.00	86-7	86-9	86-11	87-1	87-3	87-5	87-7	87-9	87-11	88-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	13-7	13-7	13-8	13-8	13-8	13-9	13-9	13-9	13-10	13-10
275.00	16-6	16-6	16-6	16-7	16-7	16-7	16-8	16-8	16-8	16-9
300.00	19-7	19-8	19-8	19-9	19-9	19-9	19-10	19-10	19-11	19-11
325.00	23-0	23-1	23-1	23-2	23-2	23-3	23-4	23-4	23-4	23-5
350.00	26-9	26-10	26-10	26-11	26-11	27-0	27-1	27-1	27-2	27-2
375.00	30-9	30-10	30-10	30-11	31-0	31-0	31-1	31-2	31-2	31-3
400.00	35-0	35-1	35-2	35-3	35-3	35-4	35-5	35-6	35-6	35-7
425.00	39-7	39-8	39-9	39-10	39-11	39-11	40-0	40-1	40-2	40-3
450.00	44-5	44-6	44-7	44-8	44-9	44-10	44-11	45-0	45-1	45-2
475.00	49-7	49-8	49-9	49-10	49-11	50-1	50-2	50-3	50-4	50-4
500.00	55-0	55-1	55-3	55-4	55-5	55-6	55-8	55-9	55-10	55-11
525.00	60-9	60-10	61-0	61-1	61-3	61-4	61-5	61-7	61-8	61-9
550.00	66-9	66-11	67-1	67-2	67-4	67-5	67-7	67-8	67-10	67-10
575.00	73-2	73-3	73-5	73-7	73-8	73-10	74-0	74-1	74-3	74-4
600.00	79-9	79-11	80-1	80-3	80-5	80-6	80-8	80-10	81-0	81-1
625.00	86-9	86-11	87-1	87-3	87-5	87-7	87-9	87-11	88-1	88-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.122

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.573	1.97	1000	1.97	1000*
20	0	0	0	1.134	1.58	896	1.58	896
30	0	0	0	1.134	1.71	831	1.71	832
40	0	0	0	1.134	1.83	777	1.82	779
50	0	0	0	1.134	1.94	732	1.93	735
60	0	0	0	1.134	2.04	694	2.04	697
70	0	0	0	1.134	2.15	662	2.14	664
80	0	0	0	1.134	2.24	633	2.23	636
90	0	0	0	1.134	2.34	608	2.33	610
100	0	0	0	1.134	2.43	585	2.42	588
110	0	0	0	1.134	2.5	570	2.5	570
120	0	0	0	1.134	2.54	559	2.54	559
130	0	0	0	1.134	2.59	549	2.59	549
167	0	0	0	1.134	2.76	515	2.76	515
212	0	0	0	1.134	2.96	481	2.96	481

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.573	7.92	1000	7.92	1000*
20	0	0	0	1.134	7.54	756	7.54	756
30	0	0	0	1.134	7.66	745	7.65	745
40	0	0	0	1.134	7.77	734	7.77	735
50	0	0	0	1.134	7.88	724	7.88	724
60	0	0	0	1.134	7.99	714	7.99	714
70	0	0	0	1.134	8.1	704	8.09	705
80	0	0	0	1.134	8.21	695	8.2	696
90	0	0	0	1.134	8.32	686	8.31	687
100	0	0	0	1.134	8.42	678	8.41	679
110	0	0	0	1.134	8.53	670	8.51	671
120	0	0	0	1.134	8.61	663	8.61	663
130	0	0	0	1.134	8.67	659	8.67	659
167	0	0	0	1.134	8.89	643	8.89	643
212	0	0	0	1.134	9.15	625	9.15	625

* Design Condition

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SHEET 123 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.123

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.573	17.96	1000	17.96	1000*
20	0	0	0	1.134	17.58	735	17.58	736
30	0	0	0	1.134	17.7	731	17.69	731
40	0	0	0	1.134	17.81	726	17.8	727
50	0	0	0	1.134	17.92	722	17.92	722
60	0	0	0	1.134	18.03	718	18.03	718
70	0	0	0	1.134	18.14	713	18.14	714
80	0	0	0	1.134	18.25	709	18.25	710
90	0	0	0	1.134	18.36	705	18.35	706
100	0	0	0	1.134	18.47	701	18.46	702
110	0	0	0	1.134	18.58	697	18.57	698
120	0	0	0	1.134	18.68	694	18.68	694
130	0	0	0	1.134	18.75	691	18.75	691
167	0	0	0	1.134	18.99	683	18.99	683
212	0	0	0	1.134	19.27	673	19.27	673

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.573	32.29	1000	32.29	1000*
20	0	0	0	1.134	31.92	729	31.92	729
30	0	0	0	1.134	32.03	726	32.03	726
40	0	0	0	1.134	32.15	724	32.14	724
50	0	0	0	1.134	32.26	721	32.25	722
60	0	0	0	1.134	32.37	719	32.36	719
70	0	0	0	1.134	32.48	717	32.47	717
80	0	0	0	1.134	32.59	714	32.58	715
90	0	0	0	1.134	32.7	712	32.69	712
100	0	0	0	1.134	32.81	710	32.8	710
110	0	0	0	1.134	32.92	708	32.91	708
120	0	0	0	1.134	33.02	706	33.02	706
130	0	0	0	1.134	33.1	704	33.1	704
167	0	0	0	1.134	33.35	699	33.35	699
212	0	0	0	1.134	33.64	693	33.64	693

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.573	51.24	1000	51.24	1000*
20	0	0	0	1.134	50.88	725	50.87	726
30	0	0	0	1.134	50.99	724	50.98	724
40	0	0	0	1.134	51.1	723	51.09	723
50	0	0	0	1.134	51.21	721	51.2	721
60	0	0	0	1.134	51.32	720	51.31	720
70	0	0	0	1.134	51.43	718	51.43	718
80	0	0	0	1.134	51.55	717	51.54	717
90	0	0	0	1.134	51.66	715	51.65	716
100	0	0	0	1.134	51.77	714	51.76	714
110	0	0	0	1.134	51.88	713	51.86	713
120	0	0	0	1.134	51.97	711	51.97	711
130	0	0	0	1.134	52.06	710	52.06	710
167	0	0	0	1.134	52.31	707	52.31	707
212	0	0	0	1.134	52.61	704	52.61	704

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5
100.00	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-4	2-5	2-6
125.00	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-9	3-11
150.00	3-7	3-10	4-1	4-4	4-7	4-10	5-0	5-3	5-5	5-7
175.00	4-10	5-3	5-7	5-11	6-3	6-7	6-10	7-2	7-5	7-8
200.00	6-4	6-10	7-4	7-9	8-2	8-7	8-11	9-4	9-8	10-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5
100.00	1-7	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5	2-6
125.00	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10	3-11
150.00	3-7	3-10	4-1	4-4	4-7	4-10	5-1	5-3	5-6	5-7
175.00	4-10	5-3	5-7	5-11	6-3	6-7	6-11	7-2	7-5	7-8
200.00	6-4	6-10	7-4	7-9	8-2	8-7	9-0	9-4	9-9	10-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-11	1-11	1-11	2-0	2-0	2-0	2-1	2-1	2-1	2-1
125.00	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-4
150.00	4-3	4-4	4-4	4-5	4-6	4-7	4-7	4-8	4-9	4-9
175.00	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6
200.00	7-6	7-8	7-9	7-11	8-0	8-1	8-2	8-4	8-5	8-6
225.00	9-7	9-8	9-10	10-0	10-1	10-3	10-5	10-6	10-8	10-9
250.00	11-9	12-0	12-2	12-4	12-6	12-8	12-10	13-0	13-2	13-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-11	1-11	1-11	2-0	2-0	2-0	2-1	2-1	2-1	2-2
125.00	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-4
150.00	4-3	4-4	4-4	4-5	4-6	4-7	4-7	4-8	4-9	4-9
175.00	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6
200.00	7-7	7-8	7-9	7-11	8-0	8-1	8-3	8-4	8-5	8-6
225.00	9-7	9-8	9-10	10-0	10-1	10-3	10-5	10-6	10-8	10-10
250.00	11-10	12-0	12-2	12-4	12-6	12-8	12-10	13-0	13-2	13-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.127

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-5	4-5	4-5	4-6	4-6	4-6	4-7	4-7	4-7	4-7
175.00	6-0	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4
200.00	7-10	7-10	7-11	7-11	8-0	8-0	8-1	8-2	8-2	8-3
225.00	9-10	9-11	10-0	10-1	10-1	10-2	10-3	10-4	10-4	10-5
250.00	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11
275.00	14-9	14-10	14-11	15-1	15-2	15-3	15-4	15-5	15-6	15-7
300.00	17-7	17-8	17-10	17-11	18-0	18-2	18-3	18-4	18-6	18-7
325.00	20-8	20-9	20-11	21-1	21-2	21-4	21-5	21-7	21-8	21-10
350.00	24-0	24-1	24-3	24-5	24-7	24-9	24-11	25-0	25-2	25-4
375.00	27-6	27-9	27-11	28-1	28-3	28-5	28-7	28-9	28-11	29-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-5	4-5	4-5	4-6	4-6	4-6	4-7	4-7	4-7	4-8
175.00	6-0	6-0	6-1	6-1	6-1	6-2	6-2	6-3	6-3	6-4
200.00	7-10	7-10	7-11	7-11	8-0	8-1	8-1	8-2	8-2	8-3
225.00	9-10	9-11	10-0	10-1	10-1	10-2	10-3	10-4	10-4	10-5
250.00	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11
275.00	14-9	14-10	14-11	15-1	15-2	15-3	15-4	15-5	15-6	15-7
300.00	17-7	17-8	17-10	17-11	18-0	18-2	18-3	18-4	18-6	18-7
325.00	20-8	20-9	20-11	21-1	21-2	21-4	21-5	21-7	21-8	21-10
350.00	24-0	24-2	24-3	24-5	24-7	24-9	24-11	25-0	25-2	25-4
375.00	27-7	27-9	27-11	28-1	28-3	28-5	28-7	28-9	28-11	29-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.128

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-11	7-11	8-0	8-0	8-0	8-1	8-1	8-1	8-2	8-2
225.00	10-0	10-1	10-1	10-2	10-2	10-3	10-3	10-3	10-4	10-4
250.00	12-5	12-5	12-6	12-6	12-7	12-7	12-8	12-8	12-9	12-9
275.00	15-0	15-1	15-1	15-2	15-3	15-3	15-4	15-5	15-5	15-6
300.00	17-11	17-11	18-0	18-1	18-2	18-2	18-3	18-4	18-5	18-5
325.00	21-0	21-1	21-2	21-3	21-4	21-4	21-5	21-6	21-7	21-8
350.00	24-5	24-6	24-7	24-8	24-9	24-10	24-11	25-0	25-1	25-2
375.00	28-0	28-1	28-3	28-4	28-5	28-6	28-7	28-8	28-10	28-11
400.00	31-11	32-0	32-2	32-3	32-4	32-6	32-7	32-8	32-10	32-11
425.00	36-1	36-2	36-4	36-5	36-7	36-8	36-10	36-11	37-1	37-2
450.00	40-6	40-8	40-9	40-11	41-1	41-2	41-4	41-6	41-7	41-9
475.00	45-2	45-4	45-6	45-8	45-10	45-11	46-1	46-3	46-5	46-7
500.00	50-1	50-3	50-6	50-8	50-10	51-0	51-2	51-4	51-6	51-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-11	8-0	8-0	8-0	8-0	8-1	8-1	8-1	8-2	8-2
225.00	10-1	10-1	10-1	10-2	10-2	10-3	10-3	10-3	10-4	10-4
250.00	12-5	12-5	12-6	12-6	12-7	12-7	12-8	12-8	12-9	12-9
275.00	15-0	15-1	15-2	15-2	15-3	15-3	15-4	15-5	15-5	15-6
300.00	17-11	17-11	18-0	18-1	18-2	18-2	18-3	18-4	18-5	18-5
325.00	21-0	21-1	21-2	21-3	21-4	21-5	21-5	21-6	21-7	21-8
350.00	24-5	24-6	24-7	24-8	24-9	24-10	24-11	25-0	25-1	25-2
375.00	28-0	28-2	28-3	28-4	28-5	28-6	28-7	28-9	28-10	28-11
400.00	31-11	32-0	32-2	32-3	32-4	32-6	32-7	32-8	32-10	32-11
425.00	36-1	36-2	36-4	36-5	36-7	36-9	36-10	37-0	37-1	37-3
450.00	40-6	40-8	40-9	40-11	41-1	41-2	41-4	41-6	41-8	41-9
475.00	45-2	45-4	45-6	45-8	45-10	46-0	46-1	46-3	46-5	46-7
500.00	50-1	50-3	50-6	50-8	50-10	51-0	51-2	51-4	51-6	51-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	12-7	12-7	12-8	12-8	12-8	12-9	12-9	12-9	12-10	12-10
275.00	15-3	15-3	15-4	15-4	15-5	15-5	15-5	15-6	15-6	15-6
300.00	18-2	18-2	18-3	18-3	18-4	18-4	18-5	18-5	18-6	18-6
325.00	21-4	21-4	21-5	21-6	21-6	21-7	21-7	21-8	21-8	21-9
350.00	24-9	24-10	24-10	24-11	25-0	25-0	25-1	25-2	25-2	25-3
375.00	28-5	28-6	28-7	28-8	28-8	28-9	28-10	28-11	28-11	29-0
400.00	32-5	32-6	32-6	32-7	32-8	32-9	32-10	32-11	33-0	33-0
425.00	36-7	36-8	36-9	36-10	36-11	37-0	37-1	37-2	37-3	37-4
450.00	41-1	41-2	41-3	41-4	41-5	41-7	41-8	41-9	41-10	41-11
475.00	45-10	45-11	46-1	46-2	46-3	46-4	46-5	46-7	46-8	46-9
500.00	50-10	51-0	51-1	51-2	51-4	51-5	51-6	51-8	51-9	51-10
525.00	56-2	56-3	56-5	56-6	56-8	56-9	56-11	57-0	57-2	57-3
550.00	61-9	61-10	62-0	62-2	62-3	62-5	62-6	62-8	62-10	62-11
575.00	67-7	67-9	67-10	68-0	68-2	68-4	68-6	68-7	68-9	68-11
600.00	73-8	73-10	74-0	74-2	74-4	74-6	74-8	74-10	75-0	75-2
625.00	80-1	80-3	80-5	80-7	80-10	81-0	81-2	81-4	81-6	81-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	12-7	12-7	12-8	12-8	12-8	12-9	12-9	12-9	12-10	12-10
275.00	15-3	15-3	15-4	15-4	15-5	15-5	15-5	15-6	15-6	15-6
300.00	18-2	18-2	18-3	18-3	18-4	18-4	18-5	18-5	18-6	18-6
325.00	21-4	21-5	21-5	21-6	21-6	21-7	21-7	21-8	21-8	21-9
350.00	24-9	24-10	24-10	24-11	25-0	25-0	25-1	25-2	25-2	25-3
375.00	28-5	28-6	28-7	28-8	28-8	28-9	28-10	28-11	28-11	29-0
400.00	32-5	32-6	32-7	32-7	32-8	32-9	32-10	32-11	33-0	33-0
425.00	36-7	36-8	36-9	36-10	36-11	37-0	37-1	37-2	37-3	37-4
450.00	41-1	41-2	41-3	41-4	41-6	41-7	41-8	41-9	41-10	41-11
475.00	45-10	45-11	46-1	46-2	46-3	46-4	46-5	46-7	46-8	46-9
500.00	50-11	51-0	51-1	51-3	51-4	51-5	51-7	51-8	51-9	51-11
525.00	56-2	56-3	56-5	56-6	56-8	56-9	56-11	57-0	57-2	57-3
550.00	61-9	61-10	62-0	62-2	62-3	62-5	62-7	62-8	62-10	62-11
575.00	67-7	67-9	67-10	68-0	68-2	68-4	68-6	68-7	68-9	68-11
600.00	73-8	73-10	74-0	74-2	74-4	74-6	74-8	74-10	75-0	75-2
625.00	80-1	80-3	80-5	80-8	80-10	81-0	81-2	81-4	81-6	81-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.130

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.573	1.34	1473	1.31	1500*
20	0	0	0	1.134	0.79	1805	0.77	1830
30	0	0	0	1.134	0.95	1486	0.93	1527
40	0	0	0	1.134	1.12	1268	1.08	1308
50	0	0	0	1.134	1.27	1114	1.23	1150
60	0	0	0	1.134	1.42	1001	1.38	1031
70	0	0	0	1.134	1.55	914	1.51	940
80	0	0	0	1.134	1.68	845	1.64	867
90	0	0	0	1.134	1.8	789	1.76	808
100	0	0	0	1.134	1.91	743	1.87	760
110	0	0	0	1.134	2.02	703	1.98	718
120	0	0	0	1.134	2.08	681	2.08	683
130	0	0	0	1.134	2.14	664	2.14	664
167	0	0	0	1.134	2.33	609	2.33	610
212	0	0	0	1.134	2.55	557	2.55	557

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.573	5.3	1488	5.26	1500*
20	0	0	0	1.134	4.72	1204	4.66	1218
30	0	0	0	1.134	4.9	1161	4.84	1175
40	0	0	0	1.134	5.07	1122	5.01	1135
50	0	0	0	1.134	5.23	1087	5.17	1099
60	0	0	0	1.134	5.39	1054	5.33	1066
70	0	0	0	1.134	5.55	1025	5.49	1036
80	0	0	0	1.134	5.7	998	5.64	1009
90	0	0	0	1.134	5.85	972	5.79	983
100	0	0	0	1.134	6	949	5.93	959
110	0	0	0	1.134	6.14	927	6.07	937
120	0	0	0	1.134	6.28	907	6.21	916
130	0	0	0	1.134	6.42	887	6.35	897
167	0	0	0	1.134	6.72	848	6.72	848
212	0	0	0	1.134	7.04	809	7.04	809

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.131

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.573	11.92	1494	11.87	1500*
20	0	0	0	1.134	11.34	1131	11.28	1137
30	0	0	0	1.134	11.52	1114	11.45	1121
40	0	0	0	1.134	11.68	1098	11.62	1105
50	0	0	0	1.134	11.85	1083	11.79	1089
60	0	0	0	1.134	12.02	1069	11.95	1074
70	0	0	0	1.134	12.18	1054	12.11	1060
80	0	0	0	1.134	12.34	1041	12.27	1047
90	0	0	0	1.134	12.5	1028	12.43	1034
100	0	0	0	1.134	12.65	1015	12.58	1021
110	0	0	0	1.134	12.81	1003	12.74	1009
120	0	0	0	1.134	12.96	992	12.89	997
130	0	0	0	1.134	13.11	980	13.04	986
167	0	0	0	1.134	13.52	951	13.52	951
212	0	0	0	1.134	13.9	926	13.9	926

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.573	21.27	1496	21.22	1500*
20	0	0	0	1.134	20.69	1108	20.62	1111
30	0	0	0	1.134	20.86	1099	20.79	1103
40	0	0	0	1.134	21.03	1091	20.96	1094
50	0	0	0	1.134	21.19	1082	21.13	1086
60	0	0	0	1.134	21.36	1074	21.29	1077
70	0	0	0	1.134	21.52	1066	21.45	1069
80	0	0	0	1.134	21.69	1058	21.62	1061
90	0	0	0	1.134	21.85	1050	21.78	1054
100	0	0	0	1.134	22.01	1043	21.94	1046
110	0	0	0	1.134	22.17	1035	22.1	1039
120	0	0	0	1.134	22.33	1028	22.26	1032
130	0	0	0	1.134	22.49	1021	22.41	1025
167	0	0	0	1.134	22.96	1001	22.96	1001
212	0	0	0	1.134	23.36	984	23.36	984

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.132

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.573	33.42	1498	33.37	1500*
20	0	0	0	1.134	32.84	1098	32.77	1100
30	0	0	0	1.134	33.01	1092	32.94	1094
40	0	0	0	1.134	33.18	1087	33.11	1089
50	0	0	0	1.134	33.34	1082	33.28	1084
60	0	0	0	1.134	33.51	1077	33.44	1079
70	0	0	0	1.134	33.68	1071	33.61	1074
80	0	0	0	1.134	33.84	1066	33.77	1069
90	0	0	0	1.134	34.01	1061	33.93	1064
100	0	0	0	1.134	34.17	1057	34.09	1059
110	0	0	0	1.134	34.33	1052	34.26	1054
120	0	0	0	1.134	34.49	1047	34.42	1049
130	0	0	0	1.134	34.66	1042	34.58	1045
167	0	0	0	1.134	35.15	1028	35.15	1028
212	0	0	0	1.134	35.58	1016	35.58	1016

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1
100.00	0-9	0-11	1-1	1-3	1-5	1-6	1-8	1-9	1-10	2-0
125.00	1-3	1-5	1-8	1-11	2-2	2-4	2-7	2-9	2-11	3-1
150.00	1-9	2-1	2-5	2-9	3-1	3-5	3-8	3-11	4-2	4-5
175.00	2-4	2-10	3-4	3-9	4-3	4-8	5-0	5-5	5-9	6-1
200.00	3-1	3-9	4-4	4-11	5-6	6-1	6-7	7-0	7-6	7-11

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2
100.00	0-9	0-11	1-1	1-3	1-5	1-7	1-8	1-10	1-11	2-0
125.00	1-3	1-6	1-9	2-0	2-3	2-5	2-7	2-10	3-0	3-2
150.00	1-9	2-2	2-6	2-10	3-2	3-6	3-9	4-1	4-4	4-7
175.00	2-5	2-11	3-5	3-11	4-4	4-9	5-2	5-6	5-10	6-2
200.00	3-2	3-10	4-6	5-1	5-8	6-3	6-9	7-2	7-8	8-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.134

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-3	1-3	1-4	1-4	1-4	1-5	1-5	1-6	1-6
125.00	1-10	1-11	1-11	2-0	2-1	2-2	2-2	2-3	2-4	2-4
150.00	2-7	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5
175.00	3-7	3-8	3-10	4-0	4-1	4-2	4-4	4-5	4-6	4-8
200.00	4-8	4-10	5-0	5-2	5-4	5-6	5-8	5-9	5-11	6-1
225.00	5-11	6-1	6-4	6-7	6-9	6-11	7-2	7-4	7-6	7-8
250.00	7-3	7-7	7-10	8-1	8-4	8-7	8-10	9-1	9-3	9-6

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-6
125.00	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-5
150.00	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5
175.00	3-7	3-9	3-11	4-0	4-2	4-3	4-4	4-6	4-7	4-8
200.00	4-9	4-11	5-1	5-3	5-5	5-7	5-8	5-10	6-0	6-2
225.00	6-0	6-2	6-5	6-7	6-10	7-0	7-3	7-5	7-7	7-9
250.00	7-5	7-8	7-11	8-2	8-5	8-8	8-11	9-2	9-5	9-7

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STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2
175.00	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-3	4-3	4-4
200.00	5-0	5-1	5-2	5-3	5-4	5-5	5-5	5-6	5-7	5-8
225.00	6-4	6-5	6-6	6-7	6-9	6-10	6-11	7-0	7-1	7-2
250.00	7-10	7-11	8-1	8-2	8-4	8-5	8-6	8-7	8-9	8-10
275.00	9-6	9-7	9-9	9-11	10-0	10-2	10-4	10-5	10-7	10-8
300.00	11-3	11-5	11-7	11-9	11-11	12-1	12-3	12-5	12-7	12-9
325.00	13-3	13-5	13-8	13-10	14-0	14-3	14-5	14-7	14-9	14-11
350.00	15-4	15-7	15-10	16-1	16-3	16-6	16-9	16-11	17-2	17-4
375.00	17-8	17-11	18-2	18-5	18-8	18-11	19-2	19-5	19-8	19-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2
175.00	3-10	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-4	4-4
200.00	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-7	5-8
225.00	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-2
250.00	7-10	8-0	8-1	8-3	8-4	8-5	8-7	8-8	8-9	8-11
275.00	9-6	9-8	9-10	9-11	10-1	10-3	10-4	10-6	10-8	10-9
300.00	11-4	11-6	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-10
325.00	13-4	13-6	13-9	13-11	14-1	14-4	14-6	14-8	14-10	15-0
350.00	15-5	15-8	15-11	16-2	16-4	16-7	16-10	17-0	17-3	17-5
375.00	17-9	18-0	18-3	18-6	18-10	19-1	19-4	19-7	19-10	20-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.136

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-2	5-2	5-3	5-3	5-4	5-4	5-5	5-5	5-6	5-6
225.00	6-6	6-7	6-7	6-8	6-9	6-9	6-10	6-10	6-11	7-0
250.00	8-0	8-1	8-2	8-3	8-4	8-4	8-5	8-6	8-7	8-7
275.00	9-9	9-10	9-11	10-0	10-1	10-1	10-2	10-3	10-4	10-5
300.00	11-7	11-8	11-9	11-10	11-11	12-1	12-2	12-3	12-4	12-5
325.00	13-7	13-9	13-10	13-11	14-0	14-2	14-3	14-4	14-6	14-7
350.00	15-9	15-11	16-0	16-2	16-3	16-5	16-6	16-8	16-9	16-11
375.00	18-1	18-3	18-5	18-7	18-8	18-10	19-0	19-2	19-3	19-5
400.00	20-7	20-10	21-0	21-2	21-3	21-5	21-7	21-9	21-11	22-1
425.00	23-4	23-6	23-8	23-10	24-1	24-3	24-5	24-7	24-9	25-0
450.00	26-2	26-4	26-7	26-9	27-0	27-2	27-5	27-7	27-10	28-0
475.00	29-1	29-4	29-7	29-10	30-1	30-4	30-6	30-9	31-0	31-3
500.00	32-3	32-7	32-10	33-1	33-4	33-7	33-10	34-1	34-4	34-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-2	5-2	5-3	5-3	5-4	5-4	5-5	5-5	5-6	5-6
225.00	6-6	6-7	6-8	6-8	6-9	6-10	6-10	6-11	6-11	7-0
250.00	8-1	8-2	8-2	8-3	8-4	8-5	8-5	8-6	8-7	8-8
275.00	9-9	9-10	9-11	10-0	10-1	10-2	10-3	10-4	10-5	10-5
300.00	11-7	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-4	12-5
325.00	13-8	13-9	13-10	14-0	14-1	14-2	14-4	14-5	14-6	14-7
350.00	15-10	15-11	16-1	16-3	16-4	16-6	16-7	16-9	16-10	17-0
375.00	18-2	18-4	18-6	18-7	18-9	18-11	19-1	19-2	19-4	19-6
400.00	20-8	20-10	21-0	21-2	21-4	21-6	21-8	21-10	22-0	22-2
425.00	23-4	23-7	23-9	23-11	24-2	24-4	24-6	24-8	24-10	25-1
450.00	26-2	26-5	26-8	26-10	27-1	27-3	27-6	27-8	27-11	28-1
475.00	29-3	29-5	29-8	29-11	30-2	30-5	30-8	30-10	31-1	31-4
500.00	32-5	32-8	32-11	33-2	33-5	33-8	34-0	34-3	34-6	34-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-2	8-2	8-3	8-3	8-4	8-4	8-5	8-5	8-6	8-6
275.00	9-10	9-11	10-0	10-0	10-1	10-1	10-2	10-3	10-3	10-4
300.00	11-9	11-10	11-11	11-11	12-0	12-1	12-1	12-2	12-3	12-3
325.00	13-10	13-10	13-11	14-0	14-1	14-2	14-3	14-3	14-4	14-5
350.00	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8	16-9
375.00	18-5	18-6	18-7	18-8	18-9	18-10	18-11	19-0	19-2	19-3
400.00	20-11	21-0	21-2	21-3	21-4	21-6	21-7	21-8	21-9	21-11
425.00	23-8	23-9	23-11	24-0	24-1	24-3	24-4	24-6	24-7	24-8
450.00	26-6	26-8	26-9	26-11	27-1	27-2	27-4	27-5	27-7	27-9
475.00	29-7	29-9	29-10	30-0	30-2	30-4	30-6	30-7	30-9	30-11
500.00	32-9	32-11	33-1	33-3	33-5	33-7	33-9	33-11	34-1	34-3
525.00	36-2	36-4	36-6	36-8	36-11	37-1	37-3	37-5	37-7	37-9
550.00	39-8	39-11	40-1	40-4	40-6	40-9	40-11	41-1	41-4	41-6
575.00	43-5	43-8	43-10	44-1	44-4	44-6	44-9	45-0	45-2	45-5
600.00	47-4	47-7	47-10	48-0	48-3	48-6	48-9	49-0	49-3	49-6
625.00	51-4	51-8	51-11	52-2	52-5	52-8	52-11	53-2	53-5	53-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-2	8-3	8-3	8-4	8-4	8-5	8-5	8-6	8-6	8-7
275.00	9-11	9-11	10-0	10-1	10-1	10-2	10-2	10-3	10-4	10-4
300.00	11-9	11-10	11-11	12-0	12-0	12-1	12-2	12-2	12-3	12-4
325.00	13-10	13-11	14-0	14-0	14-1	14-2	14-3	14-4	14-5	14-5
350.00	16-1	16-2	16-3	16-3	16-4	16-5	16-6	16-7	16-8	16-9
375.00	18-5	18-6	18-7	18-8	18-10	18-11	19-0	19-1	19-2	19-3
400.00	21-0	21-1	21-2	21-4	21-5	21-6	21-7	21-9	21-10	21-11
425.00	23-8	23-10	23-11	24-1	24-2	24-3	24-5	24-6	24-8	24-9
450.00	26-7	26-8	26-10	27-0	27-1	27-3	27-5	27-6	27-8	27-9
475.00	29-7	29-9	29-11	30-1	30-3	30-5	30-6	30-8	30-10	31-0
500.00	32-10	33-0	33-2	33-4	33-6	33-8	33-10	34-0	34-2	34-4
525.00	36-3	36-5	36-7	36-9	37-0	37-2	37-4	37-6	37-8	37-11
550.00	39-9	40-0	40-2	40-5	40-7	40-10	41-0	41-2	41-5	41-7
575.00	43-6	43-9	43-11	44-2	44-5	44-7	44-10	45-1	45-3	45-6
600.00	47-5	47-8	47-11	48-2	48-5	48-7	48-10	49-1	49-4	49-7
625.00	51-6	51-9	52-0	52-3	52-6	52-10	53-1	53-4	53-7	53-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.138

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.573	1.06	1856	0.98	2000*
20	0	0	0	1.134	0.5	2827	0.48	2971
30	0	0	0	1.134	0.64	2216	0.58	2424
40	0	0	0	1.134	0.8	1768	0.72	1973
50	0	0	0	1.134	0.97	1461	0.87	1631
60	0	0	0	1.134	1.13	1251	1.03	1383
70	0	0	0	1.134	1.29	1102	1.18	1204
80	0	0	0	1.134	1.43	991	1.32	1072
90	0	0	0	1.134	1.57	907	1.46	972
100	0	0	0	1.134	1.69	839	1.59	893
110	0	0	0	1.134	1.81	784	1.71	829
120	0	0	0	1.134	1.88	754	1.83	777
130	0	0	0	1.134	1.94	732	1.93	735
167	0	0	0	1.134	2.14	663	2.13	666
212	0	0	0	1.134	2.38	598	2.36	601

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.573	4.08	1931	3.94	2000*
20	0	0	0	1.134	3.31	1715	3.14	1809
30	0	0	0	1.134	3.54	1605	3.36	1688
40	0	0	0	1.134	3.76	1512	3.58	1586
50	0	0	0	1.134	3.96	1432	3.79	1498
60	0	0	0	1.134	4.17	1363	3.99	1422
70	0	0	0	1.134	4.36	1303	4.19	1356
80	0	0	0	1.134	4.55	1249	4.38	1298
90	0	0	0	1.134	4.73	1202	4.56	1246
100	0	0	0	1.134	4.9	1159	4.74	1200
110	0	0	0	1.134	5.07	1120	4.91	1158
120	0	0	0	1.134	5.24	1085	5.08	1120
130	0	0	0	1.134	5.4	1053	5.24	1085
167	0	0	0	1.134	5.77	985	5.77	986
212	0	0	0	1.134	6.13	928	6.13	929

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.573	9.05	1964	8.88	2000*
20	0	0	0	1.134	8.26	1550	8.06	1588
30	0	0	0	1.134	8.48	1509	8.29	1545
40	0	0	0	1.134	8.71	1470	8.51	1504
50	0	0	0	1.134	8.92	1435	8.73	1467
60	0	0	0	1.134	9.14	1402	8.94	1432
70	0	0	0	1.134	9.34	1371	9.15	1400
80	0	0	0	1.134	9.55	1341	9.35	1369
90	0	0	0	1.134	9.75	1314	9.55	1341
100	0	0	0	1.134	9.95	1288	9.75	1314
110	0	0	0	1.134	10.14	1264	9.94	1289
120	0	0	0	1.134	10.33	1241	10.13	1265
130	0	0	0	1.134	10.52	1219	10.32	1242
167	0	0	0	1.134	11.09	1157	10.99	1167
212	0	0	0	1.134	11.53	1113	11.53	1113

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.573	16.01	1978	15.83	2000*
20	0	0	0	1.134	15.21	1500	15.01	1520
30	0	0	0	1.134	15.44	1478	15.23	1498
40	0	0	0	1.134	15.66	1457	15.45	1476
50	0	0	0	1.134	15.88	1437	15.67	1456
60	0	0	0	1.134	16.1	1418	15.89	1436
70	0	0	0	1.134	16.31	1399	16.11	1417
80	0	0	0	1.134	16.53	1382	16.32	1399
90	0	0	0	1.134	16.74	1365	16.53	1382
100	0	0	0	1.134	16.94	1348	16.73	1365
110	0	0	0	1.134	17.15	1332	16.94	1349
120	0	0	0	1.134	17.35	1317	17.14	1333
130	0	0	0	1.134	17.55	1302	17.34	1318
167	0	0	0	1.134	18.25	1253	18.06	1266
212	0	0	0	1.134	18.74	1221	18.74	1221

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

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Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.573	25.01	1986	24.83	2000*
20	0	0	0	1.134	24.21	1478	24	1490
30	0	0	0	1.134	24.44	1464	24.22	1477
40	0	0	0	1.134	24.66	1451	24.45	1463
50	0	0	0	1.134	24.88	1438	24.67	1451
60	0	0	0	1.134	25.1	1426	24.89	1438
70	0	0	0	1.134	25.32	1414	25.1	1426
80	0	0	0	1.134	25.53	1402	25.32	1414
90	0	0	0	1.134	25.75	1391	25.53	1402
100	0	0	0	1.134	25.96	1380	25.74	1391
110	0	0	0	1.134	26.17	1369	25.95	1380
120	0	0	0	1.134	26.38	1358	26.16	1369
130	0	0	0	1.134	26.59	1348	26.37	1359
167	0	0	0	1.134	27.35	1311	27.12	1322
212	0	0	0	1.134	27.9	1286	27.9	1286

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DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
100.00	0-6	0-7	0-9	0-10	1-0	1-2	1-4	1-6	1-7	1-9
125.00	0-9	0-11	1-1	1-4	1-7	1-10	2-1	2-3	2-6	2-8
150.00	1-1	1-4	1-7	1-11	2-4	2-8	3-0	3-3	3-7	3-10
175.00	1-6	1-9	2-2	2-8	3-2	3-7	4-1	4-6	4-10	5-3
200.00	1-11	2-4	2-10	3-6	4-1	4-9	5-4	5-10	6-4	6-10

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-7	0-8	0-9	0-10	0-11	0-11	1-0
100.00	0-6	0-8	0-10	1-0	1-2	1-3	1-5	1-7	1-8	1-10
125.00	0-9	1-0	1-3	1-6	1-9	2-0	2-3	2-5	2-8	2-10
150.00	1-2	1-5	1-10	2-2	2-7	2-11	3-3	3-6	3-10	4-1
175.00	1-6	2-0	2-5	3-0	3-6	3-11	4-5	4-10	5-2	5-7
200.00	2-0	2-7	3-2	3-11	4-6	5-2	5-9	6-3	6-9	7-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-11
150.00	1-9	1-11	2-0	2-2	2-3	2-4	2-6	2-7	2-8	2-9
175.00	2-5	2-7	2-9	2-11	3-1	3-2	3-4	3-6	3-8	3-9
200.00	3-2	3-4	3-7	3-9	4-0	4-2	4-5	4-7	4-9	4-11
225.00	4-0	4-3	4-6	4-10	5-1	5-4	5-6	5-9	6-0	6-3
250.00	4-11	5-3	5-7	5-11	6-3	6-7	6-10	7-2	7-5	7-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11	2-0
150.00	1-10	2-0	2-1	2-3	2-4	2-5	2-7	2-8	2-9	2-10
175.00	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-7	3-9	3-11
200.00	3-4	3-6	3-9	4-0	4-2	4-4	4-7	4-9	4-11	5-1
225.00	4-2	4-6	4-9	5-0	5-3	5-6	5-9	6-0	6-2	6-5
250.00	5-2	5-6	5-10	6-2	6-6	6-10	7-1	7-5	7-8	7-11

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STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.143

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-5	2-5	2-6
175.00	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-4	3-5
200.00	3-7	3-8	3-9	3-11	4-0	4-1	4-2	4-3	4-4	4-5
225.00	4-6	4-8	4-9	4-11	5-0	5-2	5-3	5-4	5-6	5-7
250.00	5-7	5-9	5-11	6-1	6-2	6-4	6-6	6-8	6-9	6-11
275.00	6-9	7-0	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-4
300.00	8-1	8-3	8-6	8-9	8-11	9-2	9-4	9-7	9-9	9-11
325.00	9-5	9-9	10-0	10-3	10-6	10-9	11-0	11-3	11-5	11-8
350.00	11-0	11-3	11-7	11-11	12-2	12-5	12-9	13-0	13-3	13-7
375.00	12-7	12-11	13-4	13-8	14-0	14-4	14-7	14-11	15-3	15-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-1	2-1	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-6
175.00	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-4	3-5	3-5
200.00	3-8	3-9	3-10	4-0	4-1	4-2	4-3	4-4	4-5	4-6
225.00	4-8	4-9	4-11	5-0	5-2	5-3	5-4	5-6	5-7	5-8
250.00	5-9	5-11	6-1	6-2	6-4	6-6	6-8	6-9	6-11	7-0
275.00	6-11	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-6
300.00	8-3	8-6	8-8	8-11	9-2	9-4	9-7	9-9	9-11	10-2
325.00	9-8	9-11	10-3	10-6	10-9	11-0	11-3	11-5	11-8	11-11
350.00	11-3	11-7	11-10	12-2	12-5	12-9	13-0	13-3	13-7	13-10
375.00	12-11	13-3	13-7	13-11	14-3	14-7	14-11	15-3	15-7	15-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-9	3-10	3-10	3-11	4-0	4-0	4-1	4-1	4-2	4-3
225.00	4-9	4-10	4-11	4-11	5-0	5-1	5-2	5-3	5-3	5-4
250.00	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7
275.00	7-1	7-2	7-4	7-5	7-6	7-7	7-8	7-10	7-11	8-0
300.00	8-5	8-7	8-8	8-10	8-11	9-1	9-2	9-3	9-5	9-6
325.00	9-11	10-1	10-2	10-4	10-6	10-7	10-9	10-11	11-0	11-2
350.00	11-6	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-10	13-0
375.00	13-2	13-5	13-7	13-9	14-0	14-2	14-4	14-6	14-8	14-11
400.00	15-0	15-3	15-5	15-8	15-11	16-1	16-4	16-6	16-9	16-11
425.00	16-11	17-2	17-5	17-8	17-11	18-2	18-5	18-8	18-11	19-2
450.00	19-0	19-3	19-7	19-10	20-1	20-5	20-8	20-11	21-2	21-5
475.00	21-2	21-6	21-10	22-1	22-5	22-9	23-0	23-4	23-7	23-11
500.00	23-6	23-10	24-2	24-6	24-10	25-2	25-6	25-10	26-2	26-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-10	3-10	3-11	4-0	4-0	4-1	4-1	4-2	4-3	4-3
225.00	4-10	4-11	4-11	5-0	5-1	5-2	5-3	5-3	5-4	5-5
250.00	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8
275.00	7-2	7-3	7-5	7-6	7-7	7-8	7-10	7-11	8-0	8-1
300.00	8-7	8-8	8-10	8-11	9-1	9-2	9-3	9-5	9-6	9-8
325.00	10-0	10-2	10-4	10-6	10-7	10-9	10-11	11-0	11-2	11-4
350.00	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-10	13-0	13-1
375.00	13-4	13-7	13-9	13-11	14-2	14-4	14-6	14-8	14-11	15-1
400.00	15-3	15-5	15-8	15-11	16-1	16-4	16-6	16-9	16-11	17-2
425.00	17-2	17-5	17-8	17-11	18-2	18-5	18-8	18-11	19-2	19-4
450.00	19-3	19-7	19-10	20-1	20-5	20-8	20-11	21-2	21-5	21-9
475.00	21-6	21-9	22-1	22-5	22-9	23-0	23-4	23-7	23-11	24-2
500.00	23-10	24-2	24-6	24-10	25-2	25-6	25-10	26-2	26-6	26-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.145

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-0	6-1	6-1	6-2	6-2	6-3	6-4	6-4	6-5	6-6
275.00	7-3	7-4	7-5	7-5	7-6	7-7	7-8	7-8	7-9	7-10
300.00	8-7	8-8	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4
325.00	10-1	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-11
350.00	11-9	11-10	12-0	12-1	12-2	12-3	12-5	12-6	12-7	12-8
375.00	13-6	13-7	13-9	13-10	14-0	14-1	14-3	14-4	14-6	14-7
400.00	15-4	15-6	15-8	15-9	15-11	16-1	16-2	16-4	16-5	16-7
425.00	17-4	17-6	17-8	17-10	18-0	18-1	18-3	18-5	18-7	18-9
450.00	19-5	19-7	19-9	20-0	20-2	20-4	20-6	20-8	20-10	21-0
475.00	21-8	21-10	22-1	22-3	22-5	22-8	22-10	23-0	23-3	23-5
500.00	24-0	24-3	24-5	24-8	24-11	25-1	25-4	25-6	25-9	25-11
525.00	26-6	26-9	27-0	27-2	27-5	27-8	27-11	28-2	28-5	28-7
550.00	29-1	29-4	29-7	29-10	30-2	30-5	30-8	30-11	31-2	31-5
575.00	31-9	32-1	32-4	32-8	32-11	33-3	33-6	33-10	34-1	34-4
600.00	34-7	34-11	35-3	35-7	35-11	36-2	36-6	36-10	37-2	37-5
625.00	37-7	37-11	38-3	38-7	38-11	39-4	39-8	40-0	40-4	40-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-0	6-1	6-2	6-2	6-3	6-4	6-4	6-5	6-6	6-6
275.00	7-4	7-5	7-5	7-6	7-7	7-8	7-8	7-9	7-10	7-11
300.00	8-8	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5
325.00	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0
350.00	11-10	11-11	12-1	12-2	12-3	12-5	12-6	12-7	12-8	12-10
375.00	13-7	13-9	13-10	14-0	14-1	14-3	14-4	14-6	14-7	14-8
400.00	15-6	15-7	15-9	15-11	16-1	16-2	16-4	16-5	16-7	16-9
425.00	17-6	17-8	17-10	18-0	18-1	18-3	18-5	18-7	18-9	18-11
450.00	19-7	19-9	20-0	20-2	20-4	20-6	20-8	20-10	21-0	21-2
475.00	21-10	22-1	22-3	22-5	22-8	22-10	23-0	23-3	23-5	23-7
500.00	24-3	24-5	24-8	24-11	25-1	25-4	25-6	25-9	26-0	26-2
525.00	26-8	26-11	27-2	27-5	27-8	27-11	28-2	28-5	28-8	28-10
550.00	29-4	29-7	29-10	30-2	30-5	30-8	30-11	31-2	31-5	31-8
575.00	32-1	32-4	32-8	32-11	33-3	33-6	33-10	34-1	34-4	34-8
600.00	34-11	35-3	35-7	35-11	36-2	36-6	36-10	37-2	37-5	37-9
625.00	37-11	38-3	38-7	38-11	39-4	39-8	40-0	40-4	40-8	41-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.146

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.573	0.9	2181	0.79	2500*
20	0	0	0	1.134	0.39	3613	0.37	3882
30	0	0	0	1.134	0.5	2859	0.44	3251
40	0	0	0	1.134	0.63	2241	0.53	2669
50	0	0	0	1.134	0.79	1786	0.65	2169
60	0	0	0	1.134	0.96	1473	0.8	1775
70	0	0	0	1.134	1.13	1259	0.95	1487
80	0	0	0	1.134	1.28	1108	1.11	1279
90	0	0	0	1.134	1.42	996	1.26	1128
100	0	0	0	1.134	1.56	910	1.4	1015
110	0	0	0	1.134	1.69	842	1.53	927
120	0	0	0	1.134	1.75	809	1.66	857
130	0	0	0	1.134	1.81	783	1.77	800
167	0	0	0	1.134	2.02	702	2	708
212	0	0	0	1.134	2.26	628	2.24	633

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.573	3.39	2324	3.15	2500*
20	0	0	0	1.134	2.48	2291	2.21	2572
30	0	0	0	1.134	2.74	2073	2.45	2315
40	0	0	0	1.134	2.99	1898	2.7	2105
50	0	0	0	1.134	3.23	1757	2.93	1934
60	0	0	0	1.134	3.46	1640	3.17	1792
70	0	0	0	1.134	3.68	1541	3.39	1673
80	0	0	0	1.134	3.9	1457	3.61	1573
90	0	0	0	1.134	4.1	1385	3.82	1487
100	0	0	0	1.134	4.3	1322	4.02	1413
110	0	0	0	1.134	4.49	1266	4.21	1348
120	0	0	0	1.134	4.67	1217	4.4	1290
130	0	0	0	1.134	4.85	1173	4.58	1239
167	0	0	0	1.134	5.26	1082	5.21	1091
212	0	0	0	1.134	5.64	1009	5.62	1011

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.147

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Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.573	7.4	2399	7.1	2500*
20	0	0	0	1.134	6.41	1994	6.05	2114
30	0	0	0	1.134	6.69	1912	6.32	2021
40	0	0	0	1.134	6.96	1838	6.6	1938
50	0	0	0	1.134	7.22	1772	6.86	1864
60	0	0	0	1.134	7.47	1712	7.12	1797
70	0	0	0	1.134	7.72	1657	7.37	1736
80	0	0	0	1.134	7.96	1608	7.61	1681
90	0	0	0	1.134	8.19	1562	7.85	1630
100	0	0	0	1.134	8.42	1520	8.08	1584
110	0	0	0	1.134	8.65	1481	8.31	1541
120	0	0	0	1.134	8.86	1444	8.53	1501
130	0	0	0	1.134	9.08	1410	8.75	1464
167	0	0	0	1.134	9.77	1311	9.51	1347
212	0	0	0	1.134	10.25	1250	10.24	1251

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.573	12.97	2437	12.64	2500*
20	0	0	0	1.134	11.96	1904	11.57	1967
30	0	0	0	1.134	12.24	1860	11.85	1921
40	0	0	0	1.134	12.51	1820	12.12	1878
50	0	0	0	1.134	12.78	1782	12.39	1837
60	0	0	0	1.134	13.04	1746	12.66	1799
70	0	0	0	1.134	13.3	1713	12.92	1763
80	0	0	0	1.134	13.56	1681	13.18	1729
90	0	0	0	1.134	13.81	1650	13.43	1697
100	0	0	0	1.134	14.05	1622	13.68	1666
110	0	0	0	1.134	14.3	1594	13.92	1637
120	0	0	0	1.134	14.54	1568	14.16	1610
130	0	0	0	1.134	14.77	1544	14.4	1583
167	0	0	0	1.134	15.62	1461	15.25	1496
212	0	0	0	1.134	16.23	1407	16.22	1407

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.148

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Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.573	20.14	2458	19.79	2500*
20	0	0	0	1.134	19.12	1865	18.71	1904
30	0	0	0	1.134	19.39	1838	18.99	1877
40	0	0	0	1.134	19.67	1813	19.27	1850
50	0	0	0	1.134	19.94	1788	19.54	1824
60	0	0	0	1.134	20.21	1765	19.81	1800
70	0	0	0	1.134	20.48	1742	20.08	1776
80	0	0	0	1.134	20.74	1720	20.34	1754
90	0	0	0	1.134	21	1699	20.6	1732
100	0	0	0	1.134	21.26	1679	20.86	1711
110	0	0	0	1.134	21.51	1659	21.11	1690
120	0	0	0	1.134	21.76	1641	21.37	1671
130	0	0	0	1.134	22.01	1622	21.61	1652
167	0	0	0	1.134	22.91	1560	22.51	1587
212	0	0	0	1.134	23.68	1510	23.56	1517

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.149

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10
100.00	0-4	0-5	0-6	0-8	0-10	0-11	1-1	1-3	1-5	1-6
125.00	0-7	0-8	0-10	1-0	1-3	1-6	1-9	2-0	2-2	2-5
150.00	0-10	1-0	1-2	1-6	1-10	2-2	2-6	2-10	3-2	3-5
175.00	1-1	1-4	1-8	2-0	2-5	2-11	3-5	3-10	4-3	4-8
200.00	1-6	1-9	2-2	2-7	3-2	3-10	4-5	5-0	5-7	6-2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-8	0-9	0-10	0-11	0-11
100.00	0-5	0-6	0-8	0-10	1-0	1-2	1-3	1-5	1-7	1-8
125.00	0-7	0-9	1-0	1-3	1-6	1-9	2-0	2-3	2-5	2-8
150.00	0-11	1-1	1-5	1-9	2-2	2-6	2-11	3-2	3-6	3-10
175.00	1-2	1-6	1-11	2-5	2-11	3-5	3-11	4-4	4-9	5-2
200.00	1-7	2-0	2-6	3-2	3-10	4-6	5-2	5-8	6-3	6-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.150

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-7	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-1
125.00	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
150.00	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-4
175.00	1-8	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-3
200.00	2-2	2-5	2-8	2-11	3-2	3-5	3-7	3-10	4-0	4-3
225.00	2-9	3-1	3-5	3-9	4-0	4-4	4-7	4-10	5-1	5-4
250.00	3-5	3-10	4-3	4-7	4-11	5-4	5-8	6-0	6-3	6-7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1
125.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
150.00	1-5	1-6	1-8	1-10	1-11	2-1	2-2	2-4	2-5	2-6
175.00	1-11	2-1	2-3	2-6	2-8	2-10	3-0	3-2	3-3	3-5
200.00	2-6	2-9	3-0	3-3	3-6	3-8	3-11	4-1	4-4	4-6
225.00	3-2	3-6	3-9	4-1	4-5	4-8	4-11	5-2	5-5	5-8
250.00	3-10	4-3	4-8	5-1	5-5	5-9	6-1	6-5	6-9	7-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.151

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-8	1-9	1-9	1-10	1-11	2-0	2-0	2-1
175.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
200.00	2-8	2-10	2-11	3-1	3-2	3-3	3-5	3-6	3-7	3-8
225.00	3-5	3-7	3-9	3-10	4-0	4-2	4-3	4-5	4-7	4-8
250.00	4-2	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9
275.00	5-1	5-4	5-6	5-9	6-0	6-2	6-5	6-7	6-9	7-0
300.00	6-1	6-4	6-7	6-10	7-1	7-4	7-7	7-10	8-1	8-4
325.00	7-1	7-5	7-9	8-1	8-4	8-8	8-11	9-3	9-6	9-9
350.00	8-3	8-7	9-0	9-4	9-8	10-0	10-4	10-8	11-0	11-4
375.00	9-5	9-11	10-4	10-9	11-1	11-6	11-11	12-3	12-8	13-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-1	2-1	2-2
175.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
200.00	2-10	3-0	3-1	3-2	3-4	3-5	3-6	3-8	3-9	3-10
225.00	3-7	3-9	3-11	4-1	4-2	4-4	4-6	4-7	4-9	4-10
250.00	4-5	4-8	4-10	5-0	5-2	5-4	5-6	5-8	5-10	6-0
275.00	5-5	5-7	5-10	6-1	6-3	6-6	6-8	6-11	7-1	7-3
300.00	6-5	6-8	6-11	7-3	7-6	7-9	8-0	8-2	8-5	8-8
325.00	7-6	7-10	8-2	8-6	8-9	9-1	9-4	9-7	9-11	10-2
350.00	8-9	9-1	9-6	9-10	10-2	10-6	10-10	11-2	11-6	11-9
375.00	10-0	10-5	10-10	11-3	11-8	12-1	12-5	12-10	13-2	13-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.152

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-11	3-0	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-6
225.00	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5
250.00	4-6	4-7	4-9	4-10	4-11	5-1	5-2	5-3	5-4	5-5
275.00	5-6	5-7	5-9	5-10	6-0	6-1	6-3	6-4	6-6	6-7
300.00	6-6	6-8	6-10	7-0	7-1	7-3	7-5	7-7	7-8	7-10
325.00	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-10	9-0	9-2
350.00	8-10	9-1	9-3	9-6	9-8	9-11	10-1	10-3	10-6	10-8
375.00	10-2	10-5	10-8	10-11	11-1	11-4	11-7	11-10	12-0	12-3
400.00	11-7	11-10	12-1	12-5	12-8	12-11	13-2	13-5	13-8	13-11
425.00	13-1	13-5	13-8	14-0	14-4	14-7	14-11	15-2	15-5	15-9
450.00	14-8	15-0	15-4	15-8	16-0	16-4	16-8	17-0	17-4	17-8
475.00	16-4	16-9	17-1	17-6	17-10	18-3	18-7	18-11	19-4	19-8
500.00	18-1	18-6	18-11	19-5	19-10	20-2	20-7	21-0	21-5	21-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-0	3-1	3-1	3-2	3-3	3-4	3-5	3-5	3-6	3-7
225.00	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6
250.00	4-8	4-9	4-11	5-0	5-1	5-2	5-3	5-5	5-6	5-7
275.00	5-8	5-9	5-11	6-0	6-2	6-3	6-5	6-6	6-8	6-9
300.00	6-9	6-11	7-0	7-2	7-4	7-6	7-7	7-9	7-11	8-0
325.00	7-11	8-1	8-3	8-5	8-7	8-9	8-11	9-1	9-3	9-5
350.00	9-2	9-4	9-7	9-9	10-0	10-2	10-5	10-7	10-9	10-11
375.00	10-6	10-9	11-0	11-3	11-6	11-8	11-11	12-2	12-4	12-7
400.00	11-11	12-3	12-6	12-9	13-1	13-4	13-7	13-10	14-1	14-4
425.00	13-6	13-10	14-2	14-5	14-9	15-0	15-4	15-7	15-10	16-2
450.00	15-2	15-6	15-10	16-2	16-6	16-10	17-2	17-6	17-10	18-1
475.00	16-10	17-3	17-8	18-0	18-5	18-9	19-2	19-6	19-10	20-2
500.00	18-8	19-2	19-7	20-0	20-5	20-10	21-2	21-7	22-0	22-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.153

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-8	4-9	4-10	4-11	4-11	5-0	5-1	5-2	5-2	5-3
275.00	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5
300.00	6-9	6-10	6-11	7-0	7-1	7-3	7-4	7-5	7-6	7-7
325.00	7-11	8-0	8-2	8-3	8-4	8-6	8-7	8-8	8-10	8-11
350.00	9-2	9-4	9-5	9-7	9-8	9-10	9-11	10-1	10-3	10-4
375.00	10-6	10-8	10-10	11-0	11-2	11-3	11-5	11-7	11-9	11-10
400.00	12-0	12-2	12-4	12-6	12-8	12-10	13-0	13-2	13-4	13-6
425.00	13-6	13-9	13-11	14-1	14-4	14-6	14-8	14-11	15-1	15-3
450.00	15-2	15-5	15-7	15-10	16-0	16-3	16-6	16-8	16-11	17-1
475.00	16-11	17-2	17-5	17-8	17-11	18-1	18-4	18-7	18-10	19-1
500.00	18-9	19-0	19-3	19-7	19-10	20-1	20-4	20-7	20-10	21-1
525.00	20-8	20-11	21-3	21-7	21-10	22-2	22-5	22-9	23-0	23-3
550.00	22-8	23-0	23-4	23-8	24-0	24-4	24-8	24-11	25-3	25-7
575.00	24-9	25-2	25-6	25-10	26-3	26-7	26-11	27-3	27-7	27-11
600.00	27-0	27-4	27-9	28-2	28-7	28-11	29-4	29-8	30-1	30-5
625.00	29-3	29-9	30-2	30-7	31-0	31-5	31-10	32-3	32-8	33-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-9	4-10	4-11	5-0	5-1	5-1	5-2	5-3	5-4	5-4
275.00	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6
300.00	6-10	7-0	7-1	7-2	7-3	7-4	7-5	7-7	7-8	7-9
325.00	8-1	8-2	8-4	8-5	8-6	8-8	8-9	8-10	9-0	9-1
350.00	9-4	9-6	9-8	9-9	9-11	10-0	10-2	10-3	10-5	10-6
375.00	10-9	10-11	11-1	11-2	11-4	11-6	11-8	11-10	11-11	12-1
400.00	12-3	12-5	12-7	12-9	12-11	13-1	13-3	13-5	13-7	13-9
425.00	13-10	14-0	14-2	14-5	14-7	14-9	15-0	15-2	15-4	15-6
450.00	15-6	15-8	15-11	16-2	16-4	16-7	16-10	17-0	17-3	17-5
475.00	17-3	17-6	17-9	18-0	18-3	18-6	18-9	18-11	19-2	19-5
500.00	19-1	19-5	19-8	19-11	20-3	20-6	20-9	21-0	21-3	21-6
525.00	21-1	21-5	21-8	22-0	22-3	22-7	22-10	23-2	23-5	23-9
550.00	23-2	23-6	23-10	24-2	24-6	24-9	25-1	25-5	25-9	26-1
575.00	25-4	25-8	26-0	26-5	26-9	27-1	27-5	27-10	28-2	28-6
600.00	27-7	27-11	28-4	28-9	29-2	29-6	29-11	30-3	30-8	31-0
625.00	29-11	30-4	30-9	31-2	31-7	32-0	32-5	32-10	33-3	33-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.154

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.573	0.8	2472	0.66	3000*
20	0	0	0	1.134	0.34	4207	0.31	4611
30	0	0	0	1.134	0.42	3388	0.36	3954
40	0	0	0	1.134	0.53	2667	0.43	3317
50	0	0	0	1.134	0.68	2095	0.52	2727
60	0	0	0	1.134	0.84	1684	0.64	2215
70	0	0	0	1.134	1.01	1404	0.78	1810
80	0	0	0	1.134	1.17	1211	0.94	1512
90	0	0	0	1.134	1.32	1073	1.09	1297
100	0	0	0	1.134	1.46	969	1.24	1141
110	0	0	0	1.134	1.6	889	1.38	1025
120	0	0	0	1.134	1.65	858	1.52	935
130	0	0	0	1.134	1.71	828	1.64	863
167	0	0	0	1.134	1.93	737	1.91	745
212	0	0	0	1.134	2.17	654	2.15	660

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.573	2.95	2669	2.62	3000*
20	0	0	0	1.134	1.96	2898	1.65	3440
30	0	0	0	1.134	2.22	2550	1.87	3035
40	0	0	0	1.134	2.49	2277	2.11	2694
50	0	0	0	1.134	2.75	2062	2.35	2414
60	0	0	0	1.134	3	1890	2.6	2186
70	0	0	0	1.134	3.24	1749	2.84	2000
80	0	0	0	1.134	3.48	1634	3.07	1846
90	0	0	0	1.134	3.7	1536	3.3	1719
100	0	0	0	1.134	3.91	1453	3.52	1612
110	0	0	0	1.134	4.11	1381	3.73	1520
120	0	0	0	1.134	4.31	1319	3.94	1442
130	0	0	0	1.134	4.5	1263	4.14	1373
167	0	0	0	1.134	4.92	1155	4.81	1181
212	0	0	0	1.134	5.31	1070	5.3	1073

* Design Condition

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SHEET 155 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.155

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.573	6.35	2794	5.91	3000*
20	0	0	0	1.134	5.19	2460	4.67	2736
30	0	0	0	1.134	5.51	2319	4.98	2565
40	0	0	0	1.134	5.81	2197	5.29	2417
50	0	0	0	1.134	6.11	2091	5.58	2288
60	0	0	0	1.134	6.4	1998	5.88	2175
70	0	0	0	1.134	6.68	1915	6.16	2075
80	0	0	0	1.134	6.94	1841	6.43	1986
90	0	0	0	1.134	7.21	1775	6.7	1907
100	0	0	0	1.134	7.46	1714	6.96	1836
110	0	0	0	1.134	7.71	1660	7.22	1772
120	0	0	0	1.134	7.95	1610	7.46	1713
130	0	0	0	1.134	8.18	1564	7.71	1660
167	0	0	0	1.134	8.95	1430	8.55	1497
212	0	0	0	1.134	9.46	1354	9.45	1356

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.573	11.02	2865	10.52	3000*
20	0	0	0	1.134	9.81	2319	9.21	2469
30	0	0	0	1.134	10.13	2244	9.54	2384
40	0	0	0	1.134	10.45	2176	9.86	2306
50	0	0	0	1.134	10.76	2113	10.17	2235
60	0	0	0	1.134	11.07	2056	10.48	2169
70	0	0	0	1.134	11.36	2002	10.79	2109
80	0	0	0	1.134	11.66	1952	11.08	2053
90	0	0	0	1.134	11.94	1906	11.37	2001
100	0	0	0	1.134	12.22	1863	11.66	1952
110	0	0	0	1.134	12.49	1822	11.93	1907
120	0	0	0	1.134	12.76	1784	12.21	1865
130	0	0	0	1.134	13.03	1748	12.48	1825
167	0	0	0	1.134	13.97	1632	13.43	1696
212	0	0	0	1.134	14.68	1553	14.52	1571

* Design Condition

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SHEET 156 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.156

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.573	17	2906	16.46	3000*
20	0	0	0	1.134	15.75	2258	15.12	2352
30	0	0	0	1.134	16.09	2212	15.46	2301
40	0	0	0	1.134	16.41	2169	15.78	2254
50	0	0	0	1.134	16.73	2128	16.11	2209
60	0	0	0	1.134	17.04	2089	16.42	2167
70	0	0	0	1.134	17.35	2052	16.74	2127
80	0	0	0	1.134	17.66	2017	17.04	2089
90	0	0	0	1.134	17.96	1984	17.35	2053
100	0	0	0	1.134	18.25	1952	17.65	2018
110	0	0	0	1.134	18.55	1921	17.94	1986
120	0	0	0	1.134	18.83	1892	18.23	1954
130	0	0	0	1.134	19.12	1865	18.52	1924
167	0	0	0	1.134	20.13	1772	19.54	1825
212	0	0	0	1.134	21.07	1694	20.73	1721

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9
100.00	0-4	0-4	0-5	0-6	0-8	0-9	0-11	1-1	1-3	1-5
125.00	0-6	0-7	0-8	0-10	1-0	1-3	1-6	1-9	1-11	2-2
150.00	0-8	0-10	1-0	1-2	1-5	1-9	2-1	2-6	2-10	3-1
175.00	0-11	1-1	1-4	1-7	2-0	2-5	2-10	3-4	3-10	4-3
200.00	1-3	1-5	1-9	2-1	2-7	3-2	3-9	4-5	5-0	5-7

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11
100.00	0-4	0-5	0-6	0-8	0-10	1-0	1-2	1-4	1-6	1-7
125.00	0-6	0-8	0-10	1-1	1-4	1-7	1-10	2-1	2-3	2-6
150.00	0-9	0-11	1-2	1-6	1-11	2-3	2-8	3-0	3-4	3-7
175.00	1-0	1-3	1-8	2-1	2-7	3-1	3-7	4-1	4-6	4-11
200.00	1-4	1-8	2-2	2-8	3-4	4-1	4-8	5-4	5-10	6-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11	0-11
125.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6
150.00	0-11	1-1	1-2	1-4	1-6	1-7	1-9	1-10	2-0	2-1
175.00	1-3	1-5	1-7	1-10	2-0	2-2	2-4	2-6	2-8	2-10
200.00	1-8	1-10	2-1	2-4	2-7	2-10	3-1	3-4	3-6	3-9
225.00	2-1	2-4	2-8	3-0	3-3	3-7	3-11	4-2	4-5	4-9
250.00	2-7	2-11	3-3	3-8	4-1	4-5	4-10	5-2	5-6	5-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-0
125.00	0-9	0-10	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
150.00	1-1	1-3	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-4
175.00	1-6	1-8	1-11	2-1	2-4	2-6	2-8	2-10	3-0	3-2
200.00	1-11	2-3	2-6	2-9	3-0	3-3	3-6	3-8	3-11	4-1
225.00	2-6	2-10	3-2	3-6	3-10	4-1	4-5	4-8	4-11	5-2
250.00	3-1	3-6	3-11	4-4	4-8	5-1	5-5	5-9	6-1	6-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.159

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10
175.00	1-7	1-8	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
200.00	2-1	2-3	2-4	2-6	2-7	2-9	2-10	3-0	3-1	3-2
225.00	2-7	2-10	3-0	3-2	3-4	3-6	3-7	3-9	3-11	4-1
250.00	3-3	3-5	3-8	3-11	4-1	4-3	4-6	4-8	4-10	5-0
275.00	3-11	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-10	6-1
300.00	4-8	5-0	5-3	5-7	5-11	6-2	6-5	6-8	7-0	7-3
325.00	5-6	5-10	6-2	6-7	6-11	7-3	7-7	7-10	8-2	8-6
350.00	6-4	6-9	7-2	7-7	8-0	8-5	8-9	9-2	9-6	9-10
375.00	7-4	7-9	8-3	8-9	9-2	9-8	10-1	10-6	10-11	11-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10	1-10	1-11
175.00	1-9	1-10	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
200.00	2-4	2-5	2-7	2-9	2-10	3-0	3-1	3-2	3-4	3-5
225.00	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-2	4-4
250.00	3-7	3-10	4-0	4-3	4-5	4-8	4-10	5-0	5-2	5-4
275.00	4-4	4-8	4-11	5-2	5-5	5-7	5-10	6-1	6-3	6-6
300.00	5-2	5-6	5-10	6-1	6-5	6-8	6-11	7-2	7-6	7-8
325.00	6-1	6-6	6-10	7-2	7-6	7-10	8-2	8-5	8-9	9-1
350.00	7-1	7-6	7-11	8-4	8-9	9-1	9-5	9-10	10-2	10-6
375.00	8-1	8-7	9-1	9-7	10-0	10-5	10-10	11-3	11-8	12-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.160

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10	2-11	3-0
225.00	2-11	3-0	3-1	3-3	3-4	3-5	3-6	3-7	3-8	3-9
250.00	3-7	3-9	3-10	4-0	4-1	4-3	4-4	4-5	4-7	4-8
275.00	4-4	4-6	4-8	4-10	4-11	5-1	5-3	5-4	5-6	5-8
300.00	5-2	5-4	5-7	5-9	5-11	6-1	6-3	6-5	6-7	6-9
325.00	6-1	6-4	6-6	6-9	6-11	7-1	7-4	7-6	7-8	7-11
350.00	7-1	7-4	7-7	7-9	8-0	8-3	8-6	8-8	8-11	9-2
375.00	8-1	8-5	8-8	8-11	9-3	9-6	9-9	10-0	10-3	10-6
400.00	9-2	9-6	9-10	10-2	10-6	10-9	11-1	11-4	11-8	11-11
425.00	10-5	10-9	11-2	11-6	11-10	12-2	12-6	12-10	13-2	13-6
450.00	11-8	12-1	12-6	12-11	13-3	13-8	14-0	14-5	14-9	15-1
475.00	13-0	13-5	13-11	14-4	14-9	15-3	15-8	16-1	16-5	16-10
500.00	14-5	14-11	15-5	15-11	16-5	16-10	17-4	17-9	18-3	18-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-1
225.00	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
250.00	3-10	3-11	4-1	4-2	4-4	4-5	4-7	4-8	4-9	4-11
275.00	4-8	4-9	4-11	5-1	5-3	5-4	5-6	5-8	5-9	5-11
300.00	5-6	5-8	5-11	6-1	6-3	6-5	6-7	6-9	6-10	7-0
325.00	6-6	6-8	6-11	7-1	7-4	7-6	7-8	7-11	8-1	8-3
350.00	7-6	7-9	8-0	8-3	8-6	8-8	8-11	9-2	9-4	9-7
375.00	8-7	8-11	9-2	9-5	9-9	10-0	10-3	10-6	10-9	11-0
400.00	9-10	10-2	10-5	10-9	11-1	11-4	11-8	11-11	12-3	12-6
425.00	11-1	11-5	11-10	12-2	12-6	12-10	13-2	13-6	13-10	14-1
450.00	12-5	12-10	13-3	13-7	14-0	14-5	14-9	15-1	15-6	15-10
475.00	13-10	14-4	14-9	15-2	15-7	16-0	16-5	16-10	17-3	17-8
500.00	15-4	15-10	16-4	16-10	17-4	17-9	18-3	18-8	19-1	19-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.161

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6
275.00	4-7	4-8	4-9	4-10	5-0	5-1	5-2	5-3	5-4	5-5
300.00	5-5	5-7	5-8	5-10	5-11	6-0	6-2	6-3	6-4	6-5
325.00	6-5	6-6	6-8	6-10	6-11	7-1	7-2	7-4	7-5	7-7
350.00	7-5	7-7	7-9	7-11	8-1	8-2	8-4	8-6	8-8	8-9
375.00	8-6	8-8	8-10	9-1	9-3	9-5	9-7	9-9	9-11	10-1
400.00	9-8	9-11	10-1	10-4	10-6	10-8	10-11	11-1	11-3	11-6
425.00	10-11	11-2	11-5	11-8	11-10	12-1	12-4	12-6	12-9	12-11
450.00	12-3	12-6	12-9	13-1	13-4	13-7	13-10	14-1	14-3	14-6
475.00	13-8	13-11	14-3	14-6	14-10	15-1	15-5	15-8	15-11	16-2
500.00	15-1	15-5	15-9	16-1	16-5	16-9	17-1	17-4	17-8	17-11
525.00	16-8	17-1	17-5	17-9	18-1	18-5	18-10	19-2	19-5	19-9
550.00	18-4	18-8	19-1	19-6	19-11	20-3	20-8	21-0	21-4	21-9
575.00	20-0	20-5	20-11	21-4	21-9	22-2	22-7	22-11	23-4	23-9
600.00	21-9	22-3	22-9	23-3	23-8	24-1	24-7	25-0	25-5	25-10
625.00	23-8	24-2	24-8	25-2	25-8	26-2	26-8	27-2	27-7	28-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
275.00	4-9	4-10	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7
300.00	5-8	5-9	5-11	6-0	6-2	6-3	6-4	6-5	6-7	6-8
325.00	6-8	6-9	6-11	7-1	7-2	7-4	7-5	7-7	7-8	7-10
350.00	7-9	7-11	8-0	8-2	8-4	8-6	8-8	8-10	8-11	9-1
375.00	8-10	9-1	9-3	9-5	9-7	9-9	9-11	10-1	10-3	10-5
400.00	10-1	10-3	10-6	10-8	10-11	11-1	11-4	11-6	11-8	11-10
425.00	11-5	11-7	11-10	12-1	12-4	12-6	12-9	13-0	13-2	13-5
450.00	12-9	13-0	13-3	13-7	13-10	14-1	14-4	14-6	14-9	15-0
475.00	14-3	14-6	14-10	15-1	15-5	15-8	15-11	16-2	16-6	16-9
500.00	15-9	16-1	16-5	16-9	17-1	17-4	17-8	17-11	18-3	18-7
525.00	17-4	17-9	18-1	18-5	18-10	19-2	19-6	19-10	20-2	20-5
550.00	19-1	19-6	19-10	20-3	20-8	21-0	21-4	21-9	22-1	22-5
575.00	20-10	21-3	21-9	22-2	22-7	23-0	23-4	23-9	24-2	24-6
600.00	22-8	23-2	23-8	24-1	24-7	25-0	25-5	25-11	26-4	26-9
625.00	24-8	25-2	25-8	26-2	26-8	27-2	27-7	28-1	28-7	29-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.162

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.573	1.97	1000	1.97	1000*
0	0	0	0	1.134	1.7	833	1.7	834
30	0	0	0	1.134	2.04	694	2.04	697
40	0	0	0	1.134	2.15	662	2.14	664
50	0	0	0	1.134	2.24	633	2.23	636
60	0	0	0	1.134	2.34	608	2.33	610
70	0	0	0	1.134	2.43	585	2.42	588
80	0	0	0	1.134	2.52	565	2.5	568
90	0	0	0	1.134	2.6	547	2.59	549
100	0	0	0	1.134	2.67	532	2.67	532
110	0	0	0	1.134	2.72	522	2.72	522
120	0	0	0	1.134	2.77	514	2.77	514
130	0	0	0	1.134	2.81	506	2.81	506
167	0	0	0	1.134	2.97	479	2.97	479
212	0	0	0	1.134	3.16	451	3.16	451

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.573	7.92	1000	7.92	1000*
0	0	0	0	1.134	7.65	745	7.65	746
30	0	0	0	1.134	7.99	714	7.99	714
40	0	0	0	1.134	8.1	704	8.09	705
50	0	0	0	1.134	8.21	695	8.2	696
60	0	0	0	1.134	8.32	686	8.31	687
70	0	0	0	1.134	8.42	678	8.41	679
80	0	0	0	1.134	8.53	670	8.51	671
90	0	0	0	1.134	8.63	662	8.62	663
100	0	0	0	1.134	8.73	654	8.72	655
110	0	0	0	1.134	8.82	648	8.82	648
120	0	0	0	1.134	8.9	642	8.9	642
130	0	0	0	1.134	8.96	638	8.96	638
167	0	0	0	1.134	9.17	623	9.17	623
212	0	0	0	1.134	9.43	607	9.43	607

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.163

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.573	17.96	1000	17.96	1000*
0	0	0	0	1.134	17.69	731	17.68	731
30	0	0	0	1.134	18.03	718	18.03	718
40	0	0	0	1.134	18.14	713	18.14	714
50	0	0	0	1.134	18.25	709	18.25	710
60	0	0	0	1.134	18.36	705	18.35	706
70	0	0	0	1.134	18.47	701	18.46	701
80	0	0	0	1.134	18.58	697	18.57	698
90	0	0	0	1.134	18.69	693	18.68	694
100	0	0	0	1.134	18.8	689	18.78	690
110	0	0	0	1.134	18.9	686	18.89	686
120	0	0	0	1.134	18.99	682	18.99	682
130	0	0	0	1.134	19.06	680	19.06	680
167	0	0	0	1.134	19.3	672	19.3	672
212	0	0	0	1.134	19.58	663	19.58	663

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.573	32.29	1000	32.29	1000*
0	0	0	0	1.134	32.03	726	32.02	726
30	0	0	0	1.134	32.37	719	32.36	719
40	0	0	0	1.134	32.48	717	32.47	717
50	0	0	0	1.134	32.59	714	32.58	715
60	0	0	0	1.134	32.7	712	32.69	712
70	0	0	0	1.134	32.81	710	32.8	710
80	0	0	0	1.134	32.92	708	32.91	708
90	0	0	0	1.134	33.03	705	33.02	706
100	0	0	0	1.134	33.14	703	33.13	703
110	0	0	0	1.134	33.25	701	33.24	701
120	0	0	0	1.134	33.34	699	33.34	699
130	0	0	0	1.134	33.42	698	33.42	698
167	0	0	0	1.134	33.67	693	33.67	693
212	0	0	0	1.134	33.96	687	33.96	687

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.164

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.573	51.24	1000	51.24	1000*
0	0	0	0	1.134	50.98	724	50.97	724
30	0	0	0	1.134	51.32	720	51.31	720
40	0	0	0	1.134	51.43	718	51.43	718
50	0	0	0	1.134	51.55	717	51.54	717
60	0	0	0	1.134	51.66	715	51.65	716
70	0	0	0	1.134	51.77	714	51.76	714
80	0	0	0	1.134	51.88	713	51.87	713
90	0	0	0	1.134	51.99	711	51.97	711
100	0	0	0	1.134	52.1	710	52.08	710
110	0	0	0	1.134	52.21	709	52.19	709
120	0	0	0	1.134	52.3	707	52.3	707
130	0	0	0	1.134	52.39	706	52.39	706
167	0	0	0	1.134	52.63	703	52.63	703
212	0	0	0	1.134	52.93	700	52.93	700

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-5	1-6	1-6
100.00	1-11	2-0	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
125.00	3-0	3-2	3-4	3-6	3-8	3-9	3-11	4-1	4-2	4-3
150.00	4-4	4-7	4-10	5-0	5-3	5-5	5-8	5-10	6-0	6-2
175.00	5-11	6-3	6-7	6-10	7-2	7-5	7-8	7-11	8-2	8-4
200.00	7-9	8-2	8-7	8-11	9-4	9-8	10-0	10-5	10-9	10-11

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6	1-6	1-6
100.00	1-11	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
125.00	3-0	3-2	3-4	3-6	3-8	3-10	3-11	4-1	4-2	4-3
150.00	4-4	4-7	4-10	5-1	5-3	5-6	5-8	5-10	6-0	6-2
175.00	5-11	6-3	6-7	6-11	7-2	7-5	7-9	8-0	8-2	8-4
200.00	7-9	8-2	8-7	9-0	9-4	9-9	10-1	10-5	10-9	10-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-0	2-0	2-0	2-1	2-1	2-1	2-1	2-2	2-2	2-2
125.00	3-1	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5
150.00	4-5	4-6	4-7	4-7	4-8	4-9	4-9	4-10	4-11	4-11
175.00	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9
200.00	7-11	8-0	8-1	8-2	8-4	8-5	8-6	8-7	8-9	8-10
225.00	10-0	10-1	10-3	10-5	10-6	10-8	10-9	10-11	11-0	11-2
250.00	12-4	12-6	12-8	12-10	13-0	13-2	13-4	13-6	13-8	13-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-0	2-0	2-0	2-1	2-1	2-1	2-2	2-2	2-2	2-2
125.00	3-1	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5
150.00	4-5	4-6	4-7	4-7	4-8	4-9	4-9	4-10	4-11	4-11
175.00	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9
200.00	7-11	8-0	8-1	8-3	8-4	8-5	8-6	8-8	8-9	8-10
225.00	10-0	10-1	10-3	10-5	10-6	10-8	10-10	10-11	11-1	11-2
250.00	12-4	12-6	12-8	12-10	13-0	13-2	13-4	13-6	13-8	13-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.167

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-6	4-6	4-6	4-7	4-7	4-7	4-7	4-8	4-8	4-8
175.00	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-4	6-5
200.00	7-11	8-0	8-0	8-1	8-2	8-2	8-3	8-3	8-4	8-4
225.00	10-1	10-1	10-2	10-3	10-4	10-4	10-5	10-6	10-6	10-7
250.00	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-11	13-0	13-1
275.00	15-1	15-2	15-3	15-4	15-5	15-6	15-7	15-8	15-9	15-10
300.00	17-11	18-0	18-2	18-3	18-4	18-6	18-7	18-8	18-9	18-11
325.00	21-1	21-2	21-4	21-5	21-7	21-8	21-10	21-11	22-1	22-2
350.00	24-5	24-7	24-9	24-11	25-0	25-2	25-4	25-6	25-7	25-9
375.00	28-1	28-3	28-5	28-7	28-9	28-11	29-1	29-3	29-5	29-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-6	4-6	4-6	4-7	4-7	4-7	4-8	4-8	4-8	4-8
175.00	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-4	6-5
200.00	7-11	8-0	8-1	8-1	8-2	8-2	8-3	8-3	8-4	8-4
225.00	10-1	10-1	10-2	10-3	10-4	10-4	10-5	10-6	10-7	10-7
250.00	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-11	13-0	13-1
275.00	15-1	15-2	15-3	15-4	15-5	15-6	15-7	15-8	15-9	15-10
300.00	17-11	18-0	18-2	18-3	18-4	18-6	18-7	18-8	18-10	18-11
325.00	21-1	21-2	21-4	21-5	21-7	21-8	21-10	21-11	22-1	22-2
350.00	24-5	24-7	24-9	24-11	25-0	25-2	25-4	25-6	25-8	25-9
375.00	28-1	28-3	28-5	28-7	28-9	28-11	29-1	29-3	29-5	29-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.168

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-0	8-0	8-1	8-1	8-1	8-2	8-2	8-2	8-3	8-3
225.00	10-2	10-2	10-3	10-3	10-3	10-4	10-4	10-5	10-5	10-5
250.00	12-6	12-7	12-7	12-8	12-8	12-9	12-9	12-10	12-10	12-11
275.00	15-2	15-3	15-3	15-4	15-5	15-5	15-6	15-6	15-7	15-8
300.00	18-1	18-2	18-2	18-3	18-4	18-5	18-5	18-6	18-7	18-7
325.00	21-3	21-4	21-4	21-5	21-6	21-7	21-8	21-9	21-10	21-10
350.00	24-8	24-9	24-10	24-11	25-0	25-1	25-2	25-3	25-4	25-5
375.00	28-4	28-5	28-6	28-7	28-8	28-10	28-11	29-0	29-1	29-2
400.00	32-3	32-4	32-6	32-7	32-8	32-10	32-11	33-0	33-2	33-3
425.00	36-5	36-7	36-8	36-10	36-11	37-1	37-2	37-4	37-5	37-7
450.00	40-11	41-1	41-2	41-4	41-6	41-7	41-9	41-11	42-0	42-2
475.00	45-8	45-10	45-11	46-1	46-3	46-5	46-7	46-9	46-11	47-0
500.00	50-8	50-10	51-0	51-2	51-4	51-6	51-8	51-10	52-0	52-2

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-0	8-0	8-1	8-1	8-1	8-2	8-2	8-2	8-3	8-3
225.00	10-2	10-2	10-3	10-3	10-3	10-4	10-4	10-5	10-5	10-5
250.00	12-6	12-7	12-7	12-8	12-8	12-9	12-9	12-10	12-11	12-11
275.00	15-2	15-3	15-3	15-4	15-5	15-5	15-6	15-6	15-7	15-8
300.00	18-1	18-2	18-2	18-3	18-4	18-5	18-5	18-6	18-7	18-8
325.00	21-3	21-4	21-5	21-5	21-6	21-7	21-8	21-9	21-10	21-11
350.00	24-8	24-9	24-10	24-11	25-0	25-1	25-2	25-3	25-4	25-5
375.00	28-4	28-5	28-6	28-7	28-9	28-10	28-11	29-0	29-1	29-2
400.00	32-3	32-4	32-6	32-7	32-8	32-10	32-11	33-0	33-2	33-3
425.00	36-5	36-7	36-9	36-10	37-0	37-1	37-3	37-4	37-5	37-7
450.00	40-11	41-1	41-2	41-4	41-6	41-8	41-9	41-11	42-1	42-2
475.00	45-8	45-10	46-0	46-1	46-3	46-5	46-7	46-9	46-11	47-1
500.00	50-8	50-10	51-0	51-2	51-4	51-6	51-8	51-10	52-1	52-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.169

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	12-8	12-8	12-9	12-9	12-9	12-10	12-10	12-10	12-11	12-11
275.00	15-4	15-5	15-5	15-5	15-6	15-6	15-6	15-7	15-7	15-8
300.00	18-3	18-4	18-4	18-5	18-5	18-6	18-6	18-7	18-7	18-7
325.00	21-6	21-6	21-7	21-7	21-8	21-8	21-9	21-9	21-10	21-10
350.00	24-11	25-0	25-0	25-1	25-2	25-2	25-3	25-3	25-4	25-5
375.00	28-8	28-8	28-9	28-10	28-11	28-11	29-0	29-1	29-1	29-2
400.00	32-7	32-8	32-9	32-10	32-11	33-0	33-0	33-1	33-2	33-3
425.00	36-10	36-11	37-0	37-1	37-2	37-3	37-4	37-5	37-6	37-7
450.00	41-4	41-5	41-7	41-8	41-9	41-10	41-11	42-0	42-1	42-2
475.00	46-2	46-3	46-4	46-5	46-7	46-8	46-9	46-10	46-11	47-0
500.00	51-2	51-4	51-5	51-6	51-8	51-9	51-10	52-0	52-1	52-2
525.00	56-6	56-8	56-9	56-11	57-0	57-2	57-3	57-5	57-6	57-8
550.00	62-2	62-3	62-5	62-6	62-8	62-10	62-11	63-1	63-2	63-4
575.00	68-0	68-2	68-4	68-6	68-7	68-9	68-11	69-1	69-2	69-4
600.00	74-2	74-4	74-6	74-8	74-10	75-0	75-2	75-4	75-6	75-7
625.00	80-7	80-10	81-0	81-2	81-4	81-6	81-8	81-10	82-0	82-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	12-8	12-8	12-9	12-9	12-9	12-10	12-10	12-10	12-11	12-11
275.00	15-4	15-5	15-5	15-5	15-6	15-6	15-6	15-7	15-7	15-8
300.00	18-3	18-4	18-4	18-5	18-5	18-6	18-6	18-7	18-7	18-8
325.00	21-6	21-6	21-7	21-7	21-8	21-8	21-9	21-9	21-10	21-11
350.00	24-11	25-0	25-0	25-1	25-2	25-2	25-3	25-4	25-4	25-5
375.00	28-8	28-8	28-9	28-10	28-11	28-11	29-0	29-1	29-1	29-2
400.00	32-7	32-8	32-9	32-10	32-11	33-0	33-0	33-1	33-2	33-3
425.00	36-10	36-11	37-0	37-1	37-2	37-3	37-4	37-5	37-6	37-7
450.00	41-4	41-6	41-7	41-8	41-9	41-10	41-11	42-0	42-1	42-2
475.00	46-2	46-3	46-4	46-5	46-7	46-8	46-9	46-10	46-11	47-1
500.00	51-3	51-4	51-5	51-7	51-8	51-9	51-11	52-0	52-1	52-2
525.00	56-6	56-8	56-9	56-11	57-0	57-2	57-3	57-5	57-6	57-8
550.00	62-2	62-3	62-5	62-7	62-8	62-10	62-11	63-1	63-3	63-4
575.00	68-0	68-2	68-4	68-6	68-7	68-9	68-11	69-1	69-3	69-4
600.00	74-2	74-4	74-6	74-8	74-10	75-0	75-2	75-4	75-6	75-8
625.00	80-8	80-10	81-0	81-2	81-4	81-6	81-8	81-10	82-1	82-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.170

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.573	1.31	1500	1.31	1500*
0	0	0	0	1.134	0.93	1527	0.93	1527
30	0	0	0	1.134	1.39	1019	1.38	1032
40	0	0	0	1.134	1.53	928	1.51	940
50	0	0	0	1.134	1.66	856	1.64	868
60	0	0	0	1.134	1.78	798	1.76	809
70	0	0	0	1.134	1.89	750	1.87	760
80	0	0	0	1.134	2	710	1.98	718
90	0	0	0	1.134	2.1	675	2.08	683
100	0	0	0	1.134	2.2	644	2.18	652
110	0	0	0	1.134	2.27	625	2.27	625
120	0	0	0	1.134	2.34	607	2.34	607
130	0	0	0	1.134	2.39	595	2.39	595
167	0	0	0	1.134	2.57	554	2.57	554
212	0	0	0	1.134	2.77	512	2.77	512

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.573	5.28	1495	5.26	1500*
0	0	0	0	1.134	4.87	1168	4.84	1175
30	0	0	0	1.134	5.37	1060	5.33	1067
40	0	0	0	1.134	5.52	1030	5.49	1036
50	0	0	0	1.134	5.68	1002	5.64	1009
60	0	0	0	1.134	5.83	976	5.79	983
70	0	0	0	1.134	5.97	953	5.93	959
80	0	0	0	1.134	6.12	931	6.08	937
90	0	0	0	1.134	6.26	910	6.21	916
100	0	0	0	1.134	6.39	891	6.35	896
110	0	0	0	1.134	6.53	872	6.48	878
120	0	0	0	1.134	6.66	855	6.61	861
130	0	0	0	1.134	6.79	839	6.74	845
167	0	0	0	1.134	7.07	806	7.07	806
212	0	0	0	1.134	7.38	773	7.38	773

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.171

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.573	11.91	1496	11.87	1500*
0	0	0	0	1.134	11.5	1116	11.45	1121
30	0	0	0	1.134	12	1070	11.95	1074
40	0	0	0	1.134	12.16	1056	12.11	1060
50	0	0	0	1.134	12.32	1042	12.27	1047
60	0	0	0	1.134	12.48	1029	12.43	1034
70	0	0	0	1.134	12.64	1017	12.58	1021
80	0	0	0	1.134	12.79	1004	12.74	1009
90	0	0	0	1.134	12.95	993	12.89	997
100	0	0	0	1.134	13.1	981	13.04	986
110	0	0	0	1.134	13.25	970	13.19	975
120	0	0	0	1.134	13.4	960	13.34	964
130	0	0	0	1.134	13.54	950	13.48	954
167	0	0	0	1.134	13.93	924	13.93	924
212	0	0	0	1.134	14.3	900	14.3	900

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.573	21.26	1497	21.22	1500*
0	0	0	0	1.134	20.85	1100	20.79	1103
30	0	0	0	1.134	21.35	1074	21.29	1077
40	0	0	0	1.134	21.51	1066	21.45	1069
50	0	0	0	1.134	21.68	1059	21.62	1061
60	0	0	0	1.134	21.84	1051	21.78	1054
70	0	0	0	1.134	22	1043	21.94	1046
80	0	0	0	1.134	22.16	1036	22.1	1039
90	0	0	0	1.134	22.32	1029	22.26	1032
100	0	0	0	1.134	22.48	1022	22.41	1025
110	0	0	0	1.134	22.64	1015	22.57	1018
120	0	0	0	1.134	22.79	1008	22.72	1011
130	0	0	0	1.134	22.95	1001	22.88	1004
167	0	0	0	1.134	23.4	983	23.4	983
212	0	0	0	1.134	23.8	966	23.8	966

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.172

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.573	33.41	1498	33.37	1500*
0	0	0	0	1.134	33	1093	32.94	1095
30	0	0	0	1.134	33.5	1077	33.44	1079
40	0	0	0	1.134	33.67	1072	33.6	1074
50	0	0	0	1.134	33.83	1067	33.77	1069
60	0	0	0	1.134	34	1062	33.93	1064
70	0	0	0	1.134	34.16	1057	34.09	1059
80	0	0	0	1.134	34.32	1052	34.26	1054
90	0	0	0	1.134	34.49	1047	34.42	1049
100	0	0	0	1.134	34.65	1042	34.58	1045
110	0	0	0	1.134	34.81	1038	34.74	1040
120	0	0	0	1.134	34.97	1033	34.9	1035
130	0	0	0	1.134	35.13	1029	35.05	1031
167	0	0	0	1.134	35.61	1015	35.61	1015
212	0	0	0	1.134	36.04	1004	36.04	1004

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.173

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-3
100.00	1-3	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-2	2-3
125.00	1-11	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-5	3-7
150.00	2-9	3-1	3-5	3-8	3-11	4-2	4-5	4-8	4-11	5-1
175.00	3-9	4-3	4-7	5-0	5-5	5-9	6-1	6-5	6-8	7-0
200.00	4-11	5-6	6-1	6-7	7-0	7-6	7-11	8-4	8-9	9-1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-3
100.00	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-1	2-2	2-3
125.00	1-11	2-2	2-5	2-7	2-9	2-11	3-2	3-3	3-5	3-7
150.00	2-10	3-2	3-5	3-9	4-0	4-3	4-6	4-9	5-0	5-1
175.00	3-10	4-3	4-8	5-1	5-5	5-10	6-2	6-5	6-9	7-0
200.00	5-0	5-7	6-1	6-8	7-1	7-7	8-0	8-5	8-10	9-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.174

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-7
125.00	2-0	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-6	2-6
150.00	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
175.00	3-11	4-1	4-2	4-4	4-5	4-6	4-8	4-9	4-10	5-0
200.00	5-2	5-4	5-6	5-8	5-9	5-11	6-1	6-3	6-4	6-6
225.00	6-7	6-9	6-11	7-2	7-4	7-6	7-8	7-10	8-0	8-3
250.00	8-1	8-4	8-7	8-10	9-1	9-3	9-6	9-9	9-11	10-2

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-5	1-6	1-6	1-7	1-7	1-8
125.00	2-0	2-1	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-7
150.00	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
175.00	4-0	4-1	4-3	4-4	4-6	4-7	4-8	4-9	4-11	5-0
200.00	5-2	5-4	5-6	5-8	5-10	6-0	6-1	6-3	6-5	6-6
225.00	6-7	6-10	7-0	7-2	7-5	7-7	7-9	7-11	8-1	8-3
250.00	8-2	8-5	8-8	8-11	9-1	9-4	9-7	9-9	10-0	10-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.175

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-3
175.00	4-0	4-1	4-1	4-2	4-3	4-3	4-4	4-5	4-5	4-6
200.00	5-3	5-4	5-5	5-5	5-6	5-7	5-8	5-9	5-9	5-10
225.00	6-7	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4	7-5
250.00	8-2	8-4	8-5	8-6	8-7	8-9	8-10	8-11	9-1	9-2
275.00	9-11	10-0	10-2	10-4	10-5	10-7	10-8	10-10	10-11	11-1
300.00	11-9	11-11	12-1	12-3	12-5	12-7	12-9	12-11	13-0	13-2
325.00	13-10	14-0	14-3	14-5	14-7	14-9	14-11	15-2	15-4	15-6
350.00	16-1	16-3	16-6	16-9	16-11	17-2	17-4	17-7	17-9	18-0
375.00	18-5	18-8	18-11	19-2	19-5	19-8	19-11	20-2	20-5	20-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-4
175.00	4-0	4-1	4-2	4-2	4-3	4-4	4-4	4-5	4-5	4-6
200.00	5-3	5-4	5-5	5-6	5-6	5-7	5-8	5-9	5-10	5-11
225.00	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4	7-5
250.00	8-3	8-4	8-5	8-7	8-8	8-9	8-11	9-0	9-1	9-2
275.00	9-11	10-1	10-3	10-4	10-6	10-7	10-9	10-11	11-0	11-2
300.00	11-10	12-0	12-2	12-4	12-6	12-8	12-10	12-11	13-1	13-3
325.00	13-11	14-1	14-3	14-6	14-8	14-10	15-0	15-2	15-5	15-7
350.00	16-1	16-4	16-7	16-9	17-0	17-3	17-5	17-8	17-10	18-1
375.00	18-6	18-9	19-0	19-3	19-6	19-9	20-0	20-3	20-6	20-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.176

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-3	5-4	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-7
225.00	6-8	6-9	6-9	6-10	6-10	6-11	7-0	7-0	7-1	7-1
250.00	8-3	8-4	8-4	8-5	8-6	8-7	8-7	8-8	8-9	8-10
275.00	10-0	10-1	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-8
300.00	11-10	11-11	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8
325.00	13-11	14-0	14-2	14-3	14-4	14-6	14-7	14-8	14-9	14-11
350.00	16-2	16-3	16-5	16-6	16-8	16-9	16-11	17-0	17-2	17-3
375.00	18-7	18-8	18-10	19-0	19-2	19-3	19-5	19-7	19-8	19-10
400.00	21-2	21-3	21-5	21-7	21-9	21-11	22-1	22-3	22-5	22-7
425.00	23-10	24-1	24-3	24-5	24-7	24-9	25-0	25-2	25-4	25-6
450.00	26-9	27-0	27-2	27-5	27-7	27-10	28-0	28-2	28-5	28-7
475.00	29-10	30-1	30-4	30-6	30-9	31-0	31-3	31-5	31-8	31-11
500.00	33-1	33-4	33-7	33-10	34-1	34-4	34-7	34-10	35-1	35-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-3	5-4	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-8
225.00	6-8	6-9	6-9	6-10	6-11	6-11	7-0	7-1	7-1	7-2
250.00	8-3	8-4	8-5	8-5	8-6	8-7	8-8	8-8	8-9	8-10
275.00	10-0	10-1	10-2	10-3	10-4	10-5	10-5	10-6	10-7	10-8
300.00	11-11	12-0	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-9
325.00	14-0	14-1	14-2	14-3	14-5	14-6	14-7	14-9	14-10	14-11
350.00	16-2	16-4	16-5	16-7	16-8	16-10	16-11	17-1	17-2	17-4
375.00	18-7	18-9	18-11	19-1	19-2	19-4	19-6	19-7	19-9	19-11
400.00	21-2	21-4	21-6	21-8	21-10	22-0	22-2	22-4	22-6	22-8
425.00	23-11	24-1	24-4	24-6	24-8	24-10	25-0	25-3	25-5	25-7
450.00	26-10	27-1	27-3	27-6	27-8	27-11	28-1	28-3	28-6	28-8
475.00	29-11	30-2	30-5	30-7	30-10	31-1	31-4	31-6	31-9	32-0
500.00	33-2	33-5	33-8	33-11	34-2	34-5	34-8	34-11	35-2	35-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.177

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-3	8-4	8-4	8-5	8-5	8-6	8-6	8-7	8-7	8-8
275.00	10-0	10-1	10-1	10-2	10-3	10-3	10-4	10-4	10-5	10-6
300.00	11-11	12-0	12-1	12-1	12-2	12-3	12-3	12-4	12-5	12-5
325.00	14-0	14-1	14-2	14-3	14-3	14-4	14-5	14-6	14-7	14-7
350.00	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-10	16-11	17-0
375.00	18-8	18-9	18-10	18-11	19-0	19-2	19-3	19-4	19-5	19-6
400.00	21-3	21-4	21-6	21-7	21-8	21-9	21-11	22-0	22-1	22-2
425.00	24-0	24-1	24-3	24-4	24-6	24-7	24-8	24-10	24-11	25-1
450.00	26-11	27-1	27-2	27-4	27-5	27-7	27-9	27-10	28-0	28-1
475.00	30-0	30-2	30-4	30-6	30-7	30-9	30-11	31-1	31-2	31-4
500.00	33-3	33-5	33-7	33-9	33-11	34-1	34-3	34-5	34-7	34-9
525.00	36-8	36-11	37-1	37-3	37-5	37-7	37-9	38-0	38-2	38-4
550.00	40-4	40-6	40-9	40-11	41-1	41-4	41-6	41-8	41-11	42-1
575.00	44-1	44-4	44-6	44-9	45-0	45-2	45-5	45-7	45-10	46-0
600.00	48-0	48-3	48-6	48-9	49-0	49-3	49-6	49-8	49-11	50-2
625.00	52-2	52-5	52-8	52-11	53-2	53-5	53-9	54-0	54-3	54-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-4	8-4	8-5	8-5	8-6	8-6	8-6	8-7	8-7	8-8
275.00	10-1	10-1	10-2	10-2	10-3	10-3	10-4	10-5	10-5	10-6
300.00	11-11	12-0	12-1	12-2	12-2	12-3	12-4	12-4	12-5	12-6
325.00	14-0	14-1	14-2	14-3	14-4	14-5	14-5	14-6	14-7	14-8
350.00	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-10	16-11	17-0
375.00	18-8	18-10	18-11	19-0	19-1	19-2	19-3	19-4	19-5	19-6
400.00	21-3	21-5	21-6	21-7	21-9	21-10	21-11	22-0	22-1	22-3
425.00	24-1	24-2	24-3	24-5	24-6	24-8	24-9	24-10	25-0	25-1
450.00	27-0	27-1	27-3	27-4	27-6	27-8	27-9	27-11	28-0	28-2
475.00	30-1	30-3	30-4	30-6	30-8	30-10	31-0	31-1	31-3	31-5
500.00	33-4	33-6	33-8	33-10	34-0	34-2	34-4	34-6	34-8	34-10
525.00	36-9	37-0	37-2	37-4	37-6	37-8	37-10	38-1	38-3	38-5
550.00	40-5	40-7	40-9	41-0	41-2	41-5	41-7	41-9	42-0	42-2
575.00	44-2	44-5	44-7	44-10	45-1	45-3	45-6	45-8	45-11	46-2
600.00	48-2	48-4	48-7	48-10	49-1	49-4	49-7	49-10	50-0	50-3
625.00	52-3	52-6	52-9	53-1	53-4	53-7	53-10	54-1	54-4	54-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.573	0.98	2000	0.98	2000*
0	0	0	0	1.134	0.59	2423	0.59	2423
30	0	0	0	1.134	1.05	1348	1.02	1384
40	0	0	0	1.134	1.21	1171	1.18	1205
50	0	0	0	1.134	1.36	1043	1.32	1073
60	0	0	0	1.134	1.5	947	1.46	972
70	0	0	0	1.134	1.63	872	1.59	893
80	0	0	0	1.134	1.75	811	1.71	830
90	0	0	0	1.134	1.87	761	1.83	777
100	0	0	0	1.134	1.98	718	1.94	733
110	0	0	0	1.134	2.07	687	2.04	696
120	0	0	0	1.134	2.14	664	2.14	664
130	0	0	0	1.134	2.19	648	2.19	648
167	0	0	0	1.134	2.38	597	2.38	597
212	0	0	0	1.134	2.6	547	2.6	547

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.573	4.02	1960	3.94	2000*
0	0	0	0	1.134	3.47	1636	3.36	1689
30	0	0	0	1.134	4.11	1383	3.99	1423
40	0	0	0	1.134	4.3	1320	4.19	1356
50	0	0	0	1.134	4.49	1265	4.38	1298
60	0	0	0	1.134	4.68	1215	4.56	1246
70	0	0	0	1.134	4.85	1171	4.74	1200
80	0	0	0	1.134	5.02	1132	4.91	1158
90	0	0	0	1.134	5.19	1095	5.08	1120
100	0	0	0	1.134	5.35	1062	5.24	1085
110	0	0	0	1.134	5.51	1032	5.4	1054
120	0	0	0	1.134	5.66	1004	5.55	1025
130	0	0	0	1.134	5.81	979	5.7	998
167	0	0	0	1.134	6.15	925	6.15	925
212	0	0	0	1.134	6.5	876	6.5	876

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.179

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Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.573	9.01	1972	8.88	2000*
0	0	0	0	1.134	8.44	1516	8.28	1545
30	0	0	0	1.134	9.1	1407	8.94	1433
40	0	0	0	1.134	9.31	1376	9.15	1400
50	0	0	0	1.134	9.51	1347	9.35	1370
60	0	0	0	1.134	9.71	1319	9.55	1341
70	0	0	0	1.134	9.91	1293	9.75	1314
80	0	0	0	1.134	10.1	1268	9.94	1289
90	0	0	0	1.134	10.3	1245	10.13	1265
100	0	0	0	1.134	10.48	1223	10.32	1242
110	0	0	0	1.134	10.67	1202	10.51	1220
120	0	0	0	1.134	10.85	1182	10.69	1200
130	0	0	0	1.134	11.03	1163	10.87	1180
167	0	0	0	1.134	11.56	1110	11.5	1116
212	0	0	0	1.134	11.99	1071	11.99	1071

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.573	15.98	1982	15.83	2000*
0	0	0	0	1.134	15.41	1480	15.23	1498
30	0	0	0	1.134	16.07	1420	15.89	1436
40	0	0	0	1.134	16.29	1402	16.1	1417
50	0	0	0	1.134	16.5	1384	16.32	1399
60	0	0	0	1.134	16.71	1367	16.53	1382
70	0	0	0	1.134	16.92	1350	16.73	1365
80	0	0	0	1.134	17.12	1334	16.94	1349
90	0	0	0	1.134	17.33	1319	17.14	1333
100	0	0	0	1.134	17.53	1304	17.34	1318
110	0	0	0	1.134	17.72	1290	17.54	1303
120	0	0	0	1.134	17.92	1276	17.73	1289
130	0	0	0	1.134	18.12	1262	17.93	1275
167	0	0	0	1.134	18.78	1218	18.63	1228
212	0	0	0	1.134	19.26	1188	19.26	1188

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.573	24.99	1987	24.83	2000*
0	0	0	0	1.134	24.41	1465	24.22	1477
30	0	0	0	1.134	25.08	1427	24.89	1438
40	0	0	0	1.134	25.3	1415	25.1	1426
50	0	0	0	1.134	25.51	1403	25.32	1414
60	0	0	0	1.134	25.73	1392	25.53	1402
70	0	0	0	1.134	25.94	1381	25.74	1391
80	0	0	0	1.134	26.15	1370	25.95	1380
90	0	0	0	1.134	26.36	1359	26.16	1369
100	0	0	0	1.134	26.57	1349	26.37	1359
110	0	0	0	1.134	26.78	1339	26.57	1349
120	0	0	0	1.134	26.98	1329	26.78	1339
130	0	0	0	1.134	27.19	1319	26.98	1329
167	0	0	0	1.134	27.93	1285	27.72	1294
212	0	0	0	1.134	28.46	1261	28.46	1261

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.181

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2
100.00	0-10	1-0	1-2	1-4	1-6	1-7	1-9	1-10	1-11	2-0
125.00	1-4	1-7	1-10	2-1	2-3	2-6	2-8	2-10	3-0	3-2
150.00	1-11	2-4	2-8	3-0	3-3	3-7	3-10	4-1	4-4	4-7
175.00	2-8	3-2	3-7	4-1	4-6	4-10	5-3	5-7	5-11	6-3
200.00	3-6	4-1	4-9	5-4	5-10	6-4	6-10	7-4	7-9	8-2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2
100.00	0-11	1-1	1-3	1-4	1-6	1-8	1-9	1-10	2-0	2-1
125.00	1-5	1-8	1-11	2-1	2-4	2-7	2-9	2-11	3-1	3-3
150.00	2-0	2-4	2-9	3-1	3-4	3-8	3-11	4-2	4-5	4-8
175.00	2-9	3-3	3-9	4-2	4-7	5-0	5-4	5-9	6-1	6-4
200.00	3-7	4-3	4-10	5-5	6-0	6-6	7-0	7-6	7-11	8-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.182

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4
125.00	1-6	1-7	1-8	1-9	1-9	1-10	1-11	2-0	2-1	2-1
150.00	2-2	2-3	2-4	2-6	2-7	2-8	2-9	2-10	2-11	3-0
175.00	2-11	3-1	3-2	3-4	3-6	3-8	3-9	3-11	4-0	4-2
200.00	3-9	4-0	4-2	4-5	4-7	4-9	4-11	5-1	5-3	5-5
225.00	4-10	5-1	5-4	5-6	5-9	6-0	6-3	6-5	6-8	6-10
250.00	5-11	6-3	6-7	6-10	7-2	7-5	7-8	7-11	8-2	8-5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-4	1-5
125.00	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-0	2-1	2-2
150.00	2-2	2-4	2-5	2-6	2-8	2-9	2-10	2-11	3-0	3-1
175.00	3-0	3-2	3-4	3-5	3-7	3-9	3-10	4-0	4-1	4-3
200.00	3-11	4-1	4-4	4-6	4-8	4-10	5-0	5-2	5-4	5-6
225.00	4-11	5-2	5-5	5-8	5-11	6-2	6-4	6-7	6-9	7-0
250.00	6-1	6-5	6-9	7-0	7-4	7-7	7-10	8-1	8-4	8-7

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STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.183

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-6	2-7	2-7
175.00	3-0	3-0	3-1	3-2	3-3	3-4	3-5	3-5	3-6	3-7
200.00	3-10	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
225.00	4-11	5-0	5-2	5-3	5-4	5-6	5-7	5-8	5-10	5-11
250.00	6-1	6-2	6-4	6-6	6-8	6-9	6-11	7-0	7-2	7-4
275.00	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-10
300.00	8-9	8-11	9-2	9-4	9-7	9-9	9-11	10-2	10-4	10-6
325.00	10-3	10-6	10-9	11-0	11-3	11-5	11-8	11-11	12-1	12-4
350.00	11-11	12-2	12-5	12-9	13-0	13-3	13-6	13-10	14-1	14-4
375.00	13-8	14-0	14-4	14-7	14-11	15-3	15-7	15-10	16-2	16-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-3	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-8
175.00	3-0	3-1	3-2	3-3	3-4	3-4	3-5	3-6	3-7	3-8
200.00	3-11	4-0	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9
225.00	5-0	5-1	5-3	5-4	5-6	5-7	5-8	5-9	5-11	6-0
250.00	6-2	6-4	6-6	6-7	6-9	6-11	7-0	7-2	7-3	7-5
275.00	7-6	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-10	9-0
300.00	8-11	9-1	9-4	9-6	9-9	9-11	10-1	10-4	10-6	10-8
325.00	10-5	10-8	10-11	11-2	11-5	11-8	11-10	12-1	12-4	12-6
350.00	12-1	12-5	12-8	12-11	13-3	13-6	13-9	14-0	14-3	14-6
375.00	13-11	14-3	14-7	14-10	15-2	15-6	15-10	16-1	16-5	16-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.184

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-11	4-0	4-0	4-1	4-1	4-2	4-3	4-3	4-4	4-5
225.00	4-11	5-0	5-1	5-2	5-3	5-3	5-4	5-5	5-6	5-6
250.00	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-10
275.00	7-5	7-6	7-7	7-8	7-10	7-11	8-0	8-1	8-2	8-3
300.00	8-10	8-11	9-1	9-2	9-3	9-5	9-6	9-8	9-9	9-10
325.00	10-4	10-6	10-7	10-9	10-11	11-0	11-2	11-4	11-5	11-7
350.00	12-0	12-2	12-4	12-6	12-8	12-10	13-0	13-1	13-3	13-5
375.00	13-9	14-0	14-2	14-4	14-6	14-8	14-11	15-1	15-3	15-5
400.00	15-8	15-11	16-1	16-4	16-6	16-9	16-11	17-2	17-4	17-6
425.00	17-8	17-11	18-2	18-5	18-8	18-11	19-2	19-4	19-7	19-10
450.00	19-10	20-1	20-5	20-8	20-11	21-2	21-5	21-8	22-0	22-3
475.00	22-1	22-5	22-9	23-0	23-4	23-7	23-11	24-2	24-6	24-9
500.00	24-6	24-10	25-2	25-6	25-10	26-2	26-6	26-10	27-2	27-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-11	4-0	4-1	4-1	4-2	4-3	4-3	4-4	4-4	4-5
225.00	5-0	5-1	5-2	5-3	5-3	5-4	5-5	5-6	5-6	5-7
250.00	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11
275.00	7-6	7-7	7-8	7-9	7-11	8-0	8-1	8-2	8-3	8-4
300.00	8-11	9-0	9-2	9-3	9-5	9-6	9-7	9-9	9-10	10-0
325.00	10-6	10-7	10-9	10-11	11-0	11-2	11-4	11-5	11-7	11-8
350.00	12-2	12-4	12-6	12-8	12-9	12-11	13-1	13-3	13-5	13-7
375.00	13-11	14-1	14-4	14-6	14-8	14-10	15-1	15-3	15-5	15-7
400.00	15-10	16-1	16-3	16-6	16-9	16-11	17-1	17-4	17-6	17-9
425.00	17-11	18-2	18-5	18-8	18-10	19-1	19-4	19-7	19-9	20-0
450.00	20-1	20-4	20-8	20-11	21-2	21-5	21-8	21-11	22-2	22-5
475.00	22-5	22-8	23-0	23-3	23-7	23-11	24-2	24-5	24-9	25-0
500.00	24-10	25-2	25-6	25-10	26-2	26-6	26-9	27-1	27-5	27-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.185

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-2	6-2	6-3	6-4	6-4	6-5	6-6	6-6	6-7	6-8
275.00	7-5	7-6	7-7	7-8	7-8	7-9	7-10	7-11	7-11	8-0
300.00	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6	9-7
325.00	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2
350.00	12-1	12-2	12-3	12-5	12-6	12-7	12-8	12-10	12-11	13-0
375.00	13-10	14-0	14-1	14-3	14-4	14-6	14-7	14-8	14-10	14-11
400.00	15-9	15-11	16-1	16-2	16-4	16-5	16-7	16-9	16-10	17-0
425.00	17-10	18-0	18-1	18-3	18-5	18-7	18-9	18-11	19-0	19-2
450.00	20-0	20-2	20-4	20-6	20-8	20-10	21-0	21-2	21-4	21-6
475.00	22-3	22-5	22-8	22-10	23-0	23-3	23-5	23-7	23-9	24-0
500.00	24-8	24-11	25-1	25-4	25-6	25-9	25-11	26-2	26-4	26-7
525.00	27-2	27-5	27-8	27-11	28-2	28-5	28-7	28-10	29-1	29-4
550.00	29-10	30-2	30-5	30-8	30-11	31-2	31-5	31-8	31-11	32-2
575.00	32-8	32-11	33-3	33-6	33-10	34-1	34-4	34-8	34-11	35-2
600.00	35-7	35-11	36-2	36-6	36-10	37-2	37-5	37-9	38-0	38-4
625.00	38-7	38-11	39-4	39-8	40-0	40-4	40-8	41-0	41-3	41-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-2	6-3	6-4	6-4	6-5	6-6	6-6	6-7	6-7	6-8
275.00	7-6	7-7	7-8	7-8	7-9	7-10	7-11	7-11	8-0	8-1
300.00	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6	9-7	9-7
325.00	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2	11-3
350.00	12-2	12-3	12-4	12-6	12-7	12-8	12-9	12-11	13-0	13-1
375.00	14-0	14-1	14-3	14-4	14-5	14-7	14-8	14-10	14-11	15-0
400.00	15-11	16-0	16-2	16-4	16-5	16-7	16-9	16-10	17-0	17-1
425.00	17-11	18-1	18-3	18-5	18-7	18-9	18-11	19-0	19-2	19-4
450.00	20-1	20-4	20-6	20-8	20-10	21-0	21-2	21-4	21-6	21-8
475.00	22-5	22-8	22-10	23-0	23-3	23-5	23-7	23-9	24-0	24-2
500.00	24-10	25-1	25-4	25-6	25-9	25-11	26-2	26-4	26-7	26-9
525.00	27-5	27-8	27-11	28-2	28-5	28-7	28-10	29-1	29-4	29-6
550.00	30-1	30-4	30-8	30-11	31-2	31-5	31-8	31-11	32-2	32-5
575.00	32-11	33-2	33-6	33-9	34-1	34-4	34-8	34-11	35-2	35-5
600.00	35-10	36-2	36-6	36-10	37-1	37-5	37-9	38-0	38-4	38-7
625.00	38-11	39-3	39-7	39-11	40-3	40-7	40-11	41-3	41-7	41-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.186

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.573	0.79	2490	0.79	2500*
0	0	0	0	1.134	0.44	3246	0.44	3246
30	0	0	0	1.134	0.84	1697	0.8	1778
40	0	0	0	1.134	1	1413	0.95	1489
50	0	0	0	1.134	1.17	1217	1.11	1281
60	0	0	0	1.134	1.32	1077	1.26	1129
70	0	0	0	1.134	1.46	973	1.4	1016
80	0	0	0	1.134	1.59	892	1.53	928
90	0	0	0	1.134	1.72	827	1.65	858
100	0	0	0	1.134	1.83	774	1.77	801
110	0	0	0	1.134	1.94	730	1.89	753
120	0	0	0	1.134	2.01	705	1.99	713
130	0	0	0	1.134	2.07	686	2.07	687
167	0	0	0	1.134	2.27	627	2.26	628
212	0	0	0	1.134	2.49	570	2.48	572

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.573	3.29	2392	3.15	2500*
0	0	0	0	1.134	2.62	2162	2.45	2316
30	0	0	0	1.134	3.36	1688	3.17	1793
40	0	0	0	1.134	3.59	1582	3.39	1674
50	0	0	0	1.134	3.8	1493	3.61	1574
60	0	0	0	1.134	4.01	1416	3.82	1488
70	0	0	0	1.134	4.21	1349	4.02	1413
80	0	0	0	1.134	4.4	1290	4.21	1348
90	0	0	0	1.134	4.59	1238	4.4	1291
100	0	0	0	1.134	4.77	1192	4.58	1240
110	0	0	0	1.134	4.94	1150	4.76	1194
120	0	0	0	1.134	5.11	1112	4.93	1153
130	0	0	0	1.134	5.28	1078	5.1	1115
167	0	0	0	1.134	5.66	1005	5.65	1006
212	0	0	0	1.134	6.02	945	6.01	946

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.187

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.573	7.33	2422	7.1	2500*
0	0	0	0	1.134	6.61	1934	6.32	2021
30	0	0	0	1.134	7.4	1728	7.11	1797
40	0	0	0	1.134	7.65	1672	7.36	1737
50	0	0	0	1.134	7.89	1621	7.61	1681
60	0	0	0	1.134	8.13	1574	7.85	1630
70	0	0	0	1.134	8.36	1531	8.08	1584
80	0	0	0	1.134	8.58	1491	8.31	1541
90	0	0	0	1.134	8.8	1454	8.53	1501
100	0	0	0	1.134	9.02	1420	8.74	1464
110	0	0	0	1.134	9.23	1388	8.96	1429
120	0	0	0	1.134	9.44	1357	9.17	1397
130	0	0	0	1.134	9.64	1329	9.37	1367
167	0	0	0	1.134	10.28	1247	10.09	1270
212	0	0	0	1.134	10.75	1193	10.74	1194

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.573	12.92	2446	12.64	2500*
0	0	0	0	1.134	12.18	1869	11.84	1922
30	0	0	0	1.134	12.99	1753	12.66	1799
40	0	0	0	1.134	13.25	1719	12.92	1763
50	0	0	0	1.134	13.51	1687	13.17	1729
60	0	0	0	1.134	13.76	1656	13.43	1697
70	0	0	0	1.134	14.01	1627	13.67	1666
80	0	0	0	1.134	14.25	1600	13.92	1637
90	0	0	0	1.134	14.49	1573	14.16	1610
100	0	0	0	1.134	14.73	1548	14.4	1583
110	0	0	0	1.134	14.96	1525	14.63	1558
120	0	0	0	1.134	15.19	1502	14.86	1535
130	0	0	0	1.134	15.41	1480	15.09	1512
167	0	0	0	1.134	16.23	1407	15.9	1435
212	0	0	0	1.134	16.81	1359	16.8	1359

* Design Condition

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SHEET 188 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.188

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.573	20.1	2462	19.79	2500*
0	0	0	0	1.134	19.35	1842	18.99	1877
30	0	0	0	1.134	20.17	1768	19.81	1800
40	0	0	0	1.134	20.44	1745	20.08	1776
50	0	0	0	1.134	20.7	1723	20.34	1754
60	0	0	0	1.134	20.96	1702	20.6	1732
70	0	0	0	1.134	21.22	1682	20.86	1711
80	0	0	0	1.134	21.48	1662	21.11	1690
90	0	0	0	1.134	21.73	1643	21.36	1671
100	0	0	0	1.134	21.98	1625	21.61	1652
110	0	0	0	1.134	22.22	1607	21.86	1634
120	0	0	0	1.134	22.47	1590	22.1	1616
130	0	0	0	1.134	22.71	1573	22.35	1599
167	0	0	0	1.134	23.58	1516	23.22	1539
212	0	0	0	1.134	24.31	1471	24.24	1476

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
100.00	0-8	0-10	0-11	1-1	1-3	1-5	1-6	1-8	1-9	1-11
125.00	1-0	1-3	1-6	1-9	2-0	2-2	2-5	2-7	2-9	2-11
150.00	1-6	1-10	2-2	2-6	2-10	3-2	3-5	3-9	4-0	4-3
175.00	2-0	2-5	2-11	3-5	3-10	4-3	4-8	5-1	5-5	5-9
200.00	2-7	3-2	3-10	4-5	5-0	5-7	6-1	6-8	7-1	7-7

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1
100.00	0-8	0-10	1-0	1-2	1-4	1-6	1-7	1-9	1-10	1-11
125.00	1-1	1-4	1-7	1-10	2-1	2-3	2-6	2-8	2-10	3-0
150.00	1-6	1-11	2-3	2-7	3-0	3-3	3-7	3-10	4-2	4-5
175.00	2-1	2-7	3-1	3-7	4-0	4-6	4-11	5-3	5-7	6-0
200.00	2-8	3-4	4-0	4-8	5-3	5-10	6-4	6-10	7-4	7-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.190

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2
125.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10
150.00	1-8	1-9	1-11	2-0	2-2	2-3	2-4	2-6	2-7	2-8
175.00	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-4	3-6	3-8
200.00	2-11	3-2	3-5	3-7	3-10	4-0	4-3	4-5	4-7	4-9
225.00	3-9	4-0	4-4	4-7	4-10	5-1	5-4	5-7	5-10	6-0
250.00	4-7	4-11	5-4	5-8	6-0	6-3	6-7	6-11	7-2	7-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-10	1-11
150.00	1-9	1-11	2-0	2-2	2-3	2-4	2-6	2-7	2-8	2-9
175.00	2-5	2-7	2-9	2-11	3-1	3-3	3-4	3-6	3-8	3-9
200.00	3-2	3-4	3-7	3-10	4-0	4-3	4-5	4-7	4-9	4-11
225.00	3-11	4-3	4-6	4-10	5-1	5-4	5-7	5-10	6-0	6-3
250.00	4-11	5-3	5-7	5-11	6-3	6-7	6-11	7-2	7-5	7-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.191

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-9	1-9	1-10	1-11	2-0	2-0	2-1	2-2	2-2	2-3
175.00	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1
200.00	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-9	3-11	4-0
225.00	3-10	4-0	4-2	4-3	4-5	4-7	4-8	4-10	4-11	5-0
250.00	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3
275.00	5-9	6-0	6-2	6-5	6-7	6-9	7-0	7-2	7-4	7-6
300.00	6-10	7-1	7-4	7-7	7-10	8-1	8-4	8-6	8-9	8-11
325.00	8-1	8-4	8-8	8-11	9-3	9-6	9-9	10-0	10-3	10-6
350.00	9-4	9-8	10-0	10-4	10-8	11-0	11-4	11-7	11-11	12-2
375.00	10-9	11-1	11-6	11-11	12-3	12-8	13-0	13-4	13-8	14-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-9	1-10	1-11	2-0	2-0	2-1	2-2	2-2	2-3	2-4
175.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-2
200.00	3-2	3-3	3-5	3-6	3-7	3-9	3-10	3-11	4-0	4-1
225.00	4-0	4-2	4-4	4-5	4-7	4-8	4-10	4-11	5-1	5-2
250.00	5-0	5-2	5-4	5-6	5-8	5-10	6-0	6-1	6-3	6-5
275.00	6-0	6-3	6-5	6-8	6-10	7-0	7-3	7-5	7-7	7-9
300.00	7-2	7-5	7-8	7-11	8-2	8-4	8-7	8-10	9-0	9-3
325.00	8-5	8-8	9-0	9-3	9-6	9-10	10-1	10-4	10-7	10-10
350.00	9-9	10-1	10-5	10-9	11-1	11-5	11-8	12-0	12-3	12-7
375.00	11-2	11-7	11-11	12-4	12-8	13-1	13-5	13-9	14-1	14-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.192

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-6	3-7	3-8
225.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-7
250.00	4-10	4-11	5-0	5-2	5-3	5-4	5-5	5-6	5-7	5-9
275.00	5-10	6-0	6-1	6-3	6-4	6-5	6-7	6-8	6-10	6-11
300.00	7-0	7-1	7-3	7-5	7-7	7-8	7-10	8-0	8-1	8-3
325.00	8-2	8-4	8-6	8-8	8-10	9-0	9-2	9-4	9-6	9-8
350.00	9-6	9-8	9-11	10-1	10-3	10-6	10-8	10-10	11-0	11-2
375.00	10-11	11-1	11-4	11-7	11-10	12-0	12-3	12-5	12-8	12-10
400.00	12-5	12-8	12-11	13-2	13-5	13-8	13-11	14-2	14-5	14-8
425.00	14-0	14-3	14-7	14-11	15-2	15-5	15-9	16-0	16-3	16-6
450.00	15-8	16-0	16-4	16-8	17-0	17-4	17-7	17-11	18-3	18-6
475.00	17-6	17-10	18-3	18-7	18-11	19-4	19-8	20-0	20-4	20-8
500.00	19-4	19-9	20-2	20-7	21-0	21-5	21-9	22-2	22-6	22-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-2	3-3	3-4	3-4	3-5	3-6	3-7	3-7	3-8	3-9
225.00	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9
250.00	5-0	5-1	5-2	5-3	5-4	5-6	5-7	5-8	5-9	5-10
275.00	6-0	6-2	6-3	6-5	6-6	6-7	6-9	6-10	6-11	7-1
300.00	7-2	7-4	7-5	7-7	7-9	7-10	8-0	8-2	8-3	8-5
325.00	8-5	8-7	8-9	8-11	9-1	9-3	9-5	9-7	9-9	9-10
350.00	9-9	9-11	10-2	10-4	10-6	10-9	10-11	11-1	11-3	11-5
375.00	11-2	11-5	11-8	11-10	12-1	12-4	12-6	12-9	12-11	13-2
400.00	12-9	13-0	13-3	13-6	13-9	14-0	14-3	14-6	14-9	15-0
425.00	14-4	14-8	15-0	15-3	15-6	15-10	16-1	16-4	16-8	16-11
450.00	16-1	16-5	16-9	17-1	17-5	17-9	18-1	18-4	18-8	18-11
475.00	17-11	18-4	18-8	19-1	19-5	19-9	20-1	20-5	20-9	21-1
500.00	19-11	20-4	20-9	21-1	21-6	21-11	22-3	22-8	23-0	23-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.193

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-11	4-11	5-0	5-1	5-2	5-2	5-3	5-4	5-5	5-5
275.00	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-5	6-6	6-7
300.00	7-0	7-1	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10
325.00	8-3	8-4	8-6	8-7	8-8	8-10	8-11	9-0	9-1	9-3
350.00	9-7	9-8	9-10	9-11	10-1	10-3	10-4	10-5	10-7	10-8
375.00	11-0	11-2	11-3	11-5	11-7	11-9	11-10	12-0	12-2	12-3
400.00	12-6	12-8	12-10	13-0	13-2	13-4	13-6	13-8	13-10	14-0
425.00	14-1	14-4	14-6	14-8	14-10	15-1	15-3	15-5	15-7	15-9
450.00	15-10	16-0	16-3	16-6	16-8	16-11	17-1	17-4	17-6	17-8
475.00	17-8	17-11	18-1	18-4	18-7	18-10	19-1	19-3	19-6	19-9
500.00	19-6	19-10	20-1	20-4	20-7	20-10	21-1	21-4	21-7	21-10
525.00	21-7	21-10	22-2	22-5	22-9	23-0	23-3	23-7	23-10	24-1
550.00	23-8	24-0	24-4	24-7	24-11	25-3	25-7	25-10	26-2	26-6
575.00	25-10	26-3	26-7	26-11	27-3	27-7	27-11	28-3	28-7	28-11
600.00	28-2	28-7	28-11	29-4	29-8	30-1	30-5	30-10	31-2	31-6
625.00	30-7	31-0	31-5	31-10	32-3	32-8	33-0	33-5	33-10	34-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-0	5-0	5-1	5-2	5-3	5-4	5-4	5-5	5-6	5-7
275.00	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9
300.00	7-2	7-3	7-4	7-5	7-6	7-8	7-9	7-10	7-11	8-0
325.00	8-5	8-6	8-7	8-9	8-10	8-11	9-1	9-2	9-3	9-5
350.00	9-9	9-10	10-0	10-2	10-3	10-5	10-6	10-8	10-9	10-10
375.00	11-2	11-4	11-6	11-8	11-9	11-11	12-1	12-2	12-4	12-6
400.00	12-9	12-11	13-1	13-3	13-5	13-7	13-9	13-11	14-1	14-3
425.00	14-4	14-7	14-9	14-11	15-2	15-4	15-6	15-8	15-10	16-1
450.00	16-1	16-4	16-7	16-9	17-0	17-2	17-5	17-7	17-10	18-0
475.00	18-0	18-2	18-5	18-8	18-11	19-2	19-5	19-7	19-10	20-1
500.00	19-11	20-2	20-5	20-8	21-0	21-3	21-6	21-9	22-0	22-3
525.00	21-11	22-3	22-6	22-10	23-1	23-5	23-8	24-0	24-3	24-6
550.00	24-1	24-5	24-9	25-1	25-5	25-8	26-0	26-4	26-7	26-11
575.00	26-4	26-8	27-1	27-5	27-9	28-1	28-5	28-9	29-1	29-5
600.00	28-8	29-1	29-6	29-10	30-3	30-7	30-11	31-4	31-8	32-0
625.00	31-2	31-7	32-0	32-5	32-10	33-2	33-7	34-0	34-5	34-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.194

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.573	0.67	2942	0.66	3000*
0	0	0	0	1.134	0.36	3947	0.36	3947
30	0	0	0	1.134	0.69	2054	0.64	2220
40	0	0	0	1.134	0.86	1656	0.78	1815
50	0	0	0	1.134	1.02	1385	0.94	1515
60	0	0	0	1.134	1.18	1197	1.09	1300
70	0	0	0	1.134	1.33	1063	1.24	1143
80	0	0	0	1.134	1.48	962	1.38	1026
90	0	0	0	1.134	1.61	883	1.52	936
100	0	0	0	1.134	1.73	820	1.64	864
110	0	0	0	1.134	1.85	769	1.76	806
120	0	0	0	1.134	1.92	739	1.87	758
130	0	0	0	1.134	1.98	719	1.97	721
167	0	0	0	1.134	2.18	652	2.17	655
212	0	0	0	1.134	2.41	590	2.4	593

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.573	2.82	2796	2.62	3000*
0	0	0	0	1.134	2.07	2738	1.87	3035
30	0	0	0	1.134	2.86	1983	2.59	2188
40	0	0	0	1.134	3.11	1826	2.84	2001
50	0	0	0	1.134	3.34	1697	3.07	1848
60	0	0	0	1.134	3.57	1590	3.3	1720
70	0	0	0	1.134	3.79	1499	3.52	1613
80	0	0	0	1.134	4	1421	3.73	1521
90	0	0	0	1.134	4.2	1353	3.94	1443
100	0	0	0	1.134	4.39	1294	4.13	1374
110	0	0	0	1.134	4.58	1242	4.32	1314
120	0	0	0	1.134	4.76	1195	4.51	1260
130	0	0	0	1.134	4.93	1153	4.69	1212
167	0	0	0	1.134	5.34	1066	5.3	1072
212	0	0	0	1.134	5.71	996	5.7	998

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.573	6.24	2842	5.91	3000*
0	0	0	0	1.134	5.39	2371	4.98	2566
30	0	0	0	1.134	6.29	2033	5.87	2175
40	0	0	0	1.134	6.57	1946	6.16	2076
50	0	0	0	1.134	6.84	1869	6.43	1987
60	0	0	0	1.134	7.1	1800	6.7	1908
70	0	0	0	1.134	7.36	1737	6.96	1837
80	0	0	0	1.134	7.61	1680	7.22	1772
90	0	0	0	1.134	7.85	1629	7.46	1714
100	0	0	0	1.134	8.09	1581	7.7	1660
110	0	0	0	1.134	8.32	1538	7.94	1611
120	0	0	0	1.134	8.55	1497	8.17	1566
130	0	0	0	1.134	8.77	1460	8.39	1525
167	0	0	0	1.134	9.49	1350	9.18	1394
212	0	0	0	1.134	9.98	1284	9.97	1286

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.573	10.94	2886	10.52	3000*
0	0	0	0	1.134	10.04	2265	9.53	2385
30	0	0	0	1.134	10.98	2071	10.48	2170
40	0	0	0	1.134	11.28	2017	10.78	2110
50	0	0	0	1.134	11.57	1966	11.08	2053
60	0	0	0	1.134	11.86	1919	11.37	2001
70	0	0	0	1.134	12.14	1875	11.65	1953
80	0	0	0	1.134	12.42	1833	11.93	1908
90	0	0	0	1.134	12.69	1795	12.21	1865
100	0	0	0	1.134	12.95	1758	12.47	1825
110	0	0	0	1.134	13.22	1724	12.74	1788
120	0	0	0	1.134	13.47	1691	13	1752
130	0	0	0	1.134	13.72	1660	13.25	1719
167	0	0	0	1.134	14.62	1559	14.16	1610
212	0	0	0	1.134	15.3	1491	15.2	1501

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.196

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.573	16.93	2917	16.46	3000*
0	0	0	0	1.134	16.01	2222	15.45	2302
30	0	0	0	1.134	16.98	2097	16.42	2167
40	0	0	0	1.134	17.29	2060	16.73	2127
50	0	0	0	1.134	17.59	2024	17.04	2089
60	0	0	0	1.134	17.89	1991	17.34	2053
70	0	0	0	1.134	18.19	1958	17.64	2019
80	0	0	0	1.134	18.48	1928	17.94	1986
90	0	0	0	1.134	18.77	1898	18.23	1955
100	0	0	0	1.134	19.06	1870	18.51	1925
110	0	0	0	1.134	19.34	1844	18.8	1896
120	0	0	0	1.134	19.61	1818	19.07	1869
130	0	0	0	1.134	19.89	1793	19.35	1842
167	0	0	0	1.134	20.87	1710	20.34	1754
212	0	0	0	1.134	21.76	1641	21.49	1662

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
100.00	0-6	0-8	0-9	0-11	1-1	1-3	1-5	1-6	1-8	1-9
125.00	0-10	1-0	1-3	1-6	1-8	1-11	2-2	2-4	2-7	2-9
150.00	1-2	1-5	1-9	2-1	2-5	2-10	3-1	3-5	3-8	4-0
175.00	1-7	1-11	2-5	2-10	3-4	3-10	4-3	4-8	5-0	5-5
200.00	2-1	2-7	3-2	3-9	4-4	5-0	5-6	6-1	6-7	7-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0
100.00	0-7	0-8	0-10	1-0	1-2	1-4	1-6	1-7	1-9	1-10
125.00	0-10	1-1	1-4	1-7	1-10	2-1	2-4	2-6	2-8	2-11
150.00	1-3	1-7	1-11	2-4	2-8	3-0	3-4	3-7	3-11	4-2
175.00	1-8	2-1	2-7	3-2	3-8	4-1	4-6	4-11	5-4	5-8
200.00	2-2	2-9	3-5	4-1	4-9	5-4	5-11	6-5	6-11	7-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.198

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1
125.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
150.00	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-5
175.00	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4
200.00	2-4	2-7	2-10	3-1	3-4	3-6	3-9	3-11	4-2	4-4
225.00	3-0	3-3	3-7	3-11	4-2	4-5	4-9	5-0	5-3	5-6
250.00	3-8	4-1	4-5	4-10	5-2	5-6	5-10	6-2	6-6	6-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2
125.00	1-0	1-1	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-9
150.00	1-6	1-7	1-9	1-11	2-0	2-2	2-3	2-4	2-6	2-7
175.00	2-0	2-2	2-5	2-7	2-9	2-11	3-1	3-3	3-4	3-6
200.00	2-7	2-10	3-1	3-4	3-7	3-9	4-0	4-2	4-5	4-7
225.00	3-4	3-7	3-11	4-3	4-6	4-10	5-1	5-4	5-7	5-10
250.00	4-1	4-6	4-10	5-3	5-7	5-11	6-3	6-7	6-10	7-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.199

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0
175.00	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
200.00	2-6	2-7	2-9	2-10	3-0	3-1	3-2	3-4	3-5	3-6
225.00	3-2	3-4	3-6	3-7	3-9	3-11	4-1	4-2	4-4	4-6
250.00	3-11	4-1	4-3	4-6	4-8	4-10	5-0	5-2	5-4	5-6
275.00	4-8	4-11	5-2	5-5	5-8	5-10	6-1	6-3	6-6	6-8
300.00	5-7	5-10	6-2	6-5	6-8	7-0	7-3	7-6	7-8	7-11
325.00	6-7	6-11	7-3	7-7	7-10	8-2	8-6	8-9	9-1	9-4
350.00	7-7	8-0	8-5	8-9	9-1	9-6	9-10	10-2	10-6	10-10
375.00	8-9	9-2	9-7	10-1	10-6	10-11	11-3	11-8	12-1	12-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-8	1-9	1-9	1-10	1-11	2-0	2-0	2-1
175.00	2-0	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
200.00	2-8	2-10	2-11	3-0	3-2	3-3	3-5	3-6	3-7	3-8
225.00	3-4	3-6	3-8	3-10	4-0	4-2	4-3	4-5	4-7	4-8
250.00	4-2	4-4	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9
275.00	5-0	5-3	5-6	5-9	6-0	6-2	6-5	6-7	6-10	7-0
300.00	6-0	6-3	6-7	6-10	7-1	7-4	7-7	7-10	8-1	8-4
325.00	7-0	7-5	7-9	8-0	8-4	8-8	8-11	9-3	9-6	9-9
350.00	8-2	8-7	8-11	9-4	9-8	10-0	10-4	10-8	11-0	11-4
375.00	9-4	9-10	10-3	10-8	11-1	11-6	11-11	12-3	12-8	13-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.200

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-1	3-2
225.00	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
250.00	4-0	4-1	4-3	4-4	4-5	4-7	4-8	4-9	4-10	5-0
275.00	4-10	4-11	5-1	5-3	5-4	5-6	5-8	5-9	5-11	6-0
300.00	5-9	5-11	6-1	6-3	6-5	6-7	6-9	6-10	7-0	7-2
325.00	6-9	6-11	7-1	7-4	7-6	7-8	7-10	8-1	8-3	8-5
350.00	7-9	8-0	8-3	8-6	8-8	8-11	9-2	9-4	9-7	9-9
375.00	8-11	9-3	9-6	9-9	10-0	10-3	10-6	10-9	11-0	11-2
400.00	10-2	10-6	10-9	11-1	11-4	11-8	11-11	12-2	12-6	12-9
425.00	11-6	11-10	12-2	12-6	12-10	13-2	13-6	13-9	14-1	14-5
450.00	12-11	13-3	13-8	14-0	14-5	14-9	15-1	15-5	15-10	16-2
475.00	14-4	14-9	15-3	15-8	16-0	16-5	16-10	17-3	17-7	18-0
500.00	15-11	16-5	16-10	17-4	17-9	18-3	18-8	19-1	19-6	19-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-4
225.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
250.00	4-2	4-3	4-5	4-6	4-8	4-9	4-10	4-11	5-1	5-2
275.00	5-1	5-2	5-4	5-6	5-7	5-9	5-10	6-0	6-1	6-3
300.00	6-0	6-2	6-4	6-6	6-8	6-10	7-0	7-2	7-3	7-5
325.00	7-1	7-3	7-5	7-8	7-10	8-0	8-2	8-4	8-7	8-9
350.00	8-2	8-5	8-8	8-10	9-1	9-4	9-6	9-9	9-11	10-1
375.00	9-5	9-8	9-11	10-2	10-5	10-8	10-11	11-2	11-5	11-7
400.00	10-8	11-0	11-3	11-7	11-10	12-2	12-5	12-8	12-11	13-3
425.00	12-1	12-5	12-9	13-1	13-5	13-9	14-0	14-4	14-8	14-11
450.00	13-6	13-11	14-3	14-8	15-0	15-4	15-9	16-1	16-5	16-9
475.00	15-1	15-6	15-11	16-4	16-9	17-2	17-6	17-11	18-3	18-8
500.00	16-8	17-2	17-8	18-1	18-7	19-0	19-5	19-10	20-3	20-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.201

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-7	4-8
275.00	4-10	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
300.00	5-10	5-11	6-0	6-2	6-3	6-4	6-5	6-7	6-8	6-9
325.00	6-10	6-11	7-1	7-2	7-4	7-5	7-7	7-8	7-10	7-11
350.00	7-11	8-0	8-2	8-4	8-6	8-8	8-9	8-11	9-1	9-2
375.00	9-1	9-3	9-5	9-7	9-9	9-11	10-1	10-3	10-5	10-7
400.00	10-4	10-6	10-8	10-11	11-1	11-3	11-6	11-8	11-10	12-0
425.00	11-8	11-10	12-1	12-4	12-6	12-9	12-11	13-2	13-4	13-7
450.00	13-0	13-4	13-7	13-10	14-1	14-3	14-6	14-9	15-0	15-3
475.00	14-6	14-10	15-1	15-5	15-8	15-11	16-2	16-5	16-8	17-0
500.00	16-1	16-5	16-9	17-0	17-4	17-8	17-11	18-3	18-6	18-10
525.00	17-9	18-1	18-5	18-9	19-2	19-5	19-9	20-1	20-5	20-9
550.00	19-6	19-11	20-3	20-8	21-0	21-4	21-9	22-1	22-5	22-9
575.00	21-4	21-9	22-2	22-7	22-11	23-4	23-9	24-1	24-6	24-10
600.00	23-2	23-8	24-1	24-7	25-0	25-5	25-10	26-3	26-8	27-1
625.00	25-2	25-8	26-2	26-8	27-2	27-7	28-1	28-6	28-11	29-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-2	4-3	4-4	4-5	4-6	4-7	4-7	4-8	4-9	4-10
275.00	5-0	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10
300.00	6-0	6-1	6-3	6-4	6-5	6-6	6-8	6-9	6-10	6-11
325.00	7-0	7-2	7-4	7-5	7-7	7-8	7-10	7-11	8-1	8-2
350.00	8-2	8-4	8-6	8-7	8-9	8-11	9-1	9-2	9-4	9-6
375.00	9-4	9-7	9-9	9-11	10-1	10-3	10-5	10-7	10-9	10-10
400.00	10-8	10-10	11-1	11-3	11-5	11-8	11-10	12-0	12-2	12-4
425.00	12-0	12-3	12-6	12-8	12-11	13-2	13-4	13-7	13-9	14-0
450.00	13-6	13-9	14-0	14-3	14-6	14-9	15-0	15-2	15-5	15-8
475.00	15-0	15-4	15-7	15-11	16-2	16-5	16-8	16-11	17-2	17-5
500.00	16-8	17-0	17-3	17-7	17-11	18-2	18-6	18-9	19-1	19-4
525.00	18-4	18-9	19-1	19-5	19-9	20-1	20-5	20-8	21-0	21-4
550.00	20-2	20-7	20-11	21-4	21-8	22-0	22-4	22-9	23-1	23-5
575.00	22-1	22-6	22-10	23-3	23-8	24-1	24-5	24-10	25-3	25-7
600.00	24-0	24-6	24-11	25-4	25-9	26-3	26-8	27-1	27-6	27-10
625.00	26-1	26-7	27-0	27-6	28-0	28-5	28-11	29-4	29-10	30-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	2.74	1000	2.74	1000*
20	0	0	0	1.134	2.45	581	2.44	582
30	0	0	0	1.134	2.53	561	2.53	563
40	0	0	0	1.134	2.62	543	2.61	545
50	0	0	0	1.134	2.7	527	2.69	528
60	0	0	0	1.134	2.78	512	2.77	513
70	0	0	0	1.134	2.86	498	2.85	499
80	0	0	0	1.134	2.93	485	2.92	487
90	0	0	0	1.134	3	474	3	475
100	0	0	0	1.134	3.05	466	3.05	466
110	0	0	0	1.134	3.09	460	3.09	460
120	0	0	0	1.134	3.13	454	3.13	454
130	0	0	0	1.134	3.17	449	3.17	449
167	0	0	0	1.134	3.32	429	3.32	429
212	0	0	0	1.134	3.49	408	3.49	408

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	11.06	1000	11.06	1000*
20	0	0	0	1.134	10.78	532	10.77	533
30	0	0	0	1.134	10.86	528	10.85	529
40	0	0	0	1.134	10.94	524	10.93	525
50	0	0	0	1.134	11.02	521	11.01	521
60	0	0	0	1.134	11.1	517	11.09	517
70	0	0	0	1.134	11.18	513	11.17	514
80	0	0	0	1.134	11.26	510	11.25	510
90	0	0	0	1.134	11.34	506	11.33	507
100	0	0	0	1.134	11.4	504	11.4	504
110	0	0	0	1.134	11.45	502	11.45	502
120	0	0	0	1.134	11.5	500	11.5	500
130	0	0	0	1.134	11.54	498	11.54	498
167	0	0	0	1.134	11.71	491	11.71	491
212	0	0	0	1.134	11.92	483	11.92	483

* Design Condition

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SHEET 203 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.203

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	25.29	1000	25.29	1000*
20	0	0	0	1.134	25.01	524	25	525
30	0	0	0	1.134	25.09	523	25.08	523
40	0	0	0	1.134	25.17	521	25.16	521
50	0	0	0	1.134	25.25	520	25.24	520
60	0	0	0	1.134	25.33	518	25.32	518
70	0	0	0	1.134	25.41	517	25.4	517
80	0	0	0	1.134	25.49	515	25.48	515
90	0	0	0	1.134	25.57	513	25.56	514
100	0	0	0	1.134	25.64	512	25.64	512
110	0	0	0	1.134	25.69	511	25.69	511
120	0	0	0	1.134	25.73	510	25.73	510
130	0	0	0	1.134	25.78	509	25.78	509
167	0	0	0	1.134	25.96	506	25.96	506
212	0	0	0	1.134	26.17	502	26.17	502

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	46.04	1000	46.04	1000*
20	0	0	0	1.134	45.76	522	45.75	522
30	0	0	0	1.134	45.84	521	45.83	521
40	0	0	0	1.134	45.92	520	45.91	520
50	0	0	0	1.134	46	519	45.99	519
60	0	0	0	1.134	46.08	518	46.07	519
70	0	0	0	1.134	46.16	518	46.15	518
80	0	0	0	1.134	46.24	517	46.23	517
90	0	0	0	1.134	46.32	516	46.31	516
100	0	0	0	1.134	46.39	515	46.39	515
110	0	0	0	1.134	46.44	515	46.44	515
120	0	0	0	1.134	46.49	514	46.49	514
130	0	0	0	1.134	46.54	514	46.54	514
167	0	0	0	1.134	46.71	512	46.71	512
212	0	0	0	1.134	46.93	510	46.93	510

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	74.39	1000	74.39	1000*
20	0	0	0	1.134	74.11	520	74.1	521
30	0	0	0	1.134	74.19	520	74.18	520
40	0	0	0	1.134	74.27	520	74.26	520
50	0	0	0	1.134	74.35	519	74.34	519
60	0	0	0	1.134	74.43	519	74.42	519
70	0	0	0	1.134	74.51	518	74.5	518
80	0	0	0	1.134	74.59	518	74.58	518
90	0	0	0	1.134	74.67	517	74.66	517
100	0	0	0	1.134	74.74	517	74.74	517
110	0	0	0	1.134	74.79	517	74.79	517
120	0	0	0	1.134	74.84	516	74.84	516
130	0	0	0	1.134	74.89	516	74.89	516
167	0	0	0	1.134	75.07	515	75.07	515
212	0	0	0	1.134	75.28	514	75.28	514

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-4	1-5	1-6	1-6	1-7	1-7	1-8	1-8	1-9	1-9
100.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-1
125.00	3-10	3-11	4-1	4-2	4-4	4-5	4-7	4-8	4-9	4-10
150.00	5-6	5-8	5-11	6-1	6-3	6-5	6-7	6-9	6-10	7-0
175.00	7-6	7-9	8-0	8-3	8-6	8-9	9-0	9-2	9-4	9-6
200.00	9-9	10-2	10-6	10-10	11-1	11-5	11-9	12-0	12-3	12-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-5	1-5	1-6	1-6	1-7	1-7	1-8	1-8	1-9	1-9
100.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-1
125.00	3-10	4-0	4-1	4-3	4-4	4-6	4-7	4-8	4-9	4-10
150.00	5-6	5-8	5-11	6-1	6-3	6-5	6-7	6-9	6-10	7-0
175.00	7-6	7-9	8-0	8-3	8-6	8-9	9-0	9-3	9-4	9-6
200.00	9-10	10-2	10-6	10-10	11-2	11-6	11-9	12-1	12-3	12-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.206

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-8	2-8	2-9	2-9	2-9	2-9	2-10	2-10	2-10	2-10
125.00	4-2	4-3	4-3	4-3	4-4	4-4	4-5	4-5	4-5	4-6
150.00	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5	6-5
175.00	8-3	8-4	8-4	8-5	8-6	8-7	8-7	8-8	8-9	8-9
200.00	10-9	10-10	10-11	11-0	11-1	11-2	11-3	11-4	11-5	11-5
225.00	13-8	13-9	13-10	13-11	14-1	14-2	14-3	14-4	14-5	14-6
250.00	16-10	17-0	17-1	17-3	17-4	17-6	17-7	17-9	17-10	17-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-8	2-8	2-9	2-9	2-9	2-9	2-10	2-10	2-10	2-10
125.00	4-2	4-3	4-3	4-4	4-4	4-4	4-5	4-5	4-5	4-6
150.00	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5	6-5
175.00	8-3	8-4	8-4	8-5	8-6	8-7	8-7	8-8	8-9	8-9
200.00	10-9	10-10	10-11	11-0	11-1	11-2	11-3	11-4	11-5	11-5
225.00	13-8	13-9	13-10	14-0	14-1	14-2	14-3	14-4	14-5	14-6
250.00	16-11	17-0	17-2	17-3	17-5	17-6	17-8	17-9	17-10	17-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.207

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-2	6-3	6-3	6-3	6-3	6-4	6-4	6-4	6-4	6-5
175.00	8-5	8-6	8-6	8-6	8-7	8-7	8-7	8-8	8-8	8-8
200.00	11-1	11-1	11-2	11-2	11-2	11-3	11-3	11-4	11-4	11-4
225.00	14-0	14-1	14-1	14-2	14-2	14-3	14-3	14-4	14-4	14-5
250.00	17-4	17-4	17-5	17-6	17-6	17-7	17-8	17-8	17-9	17-9
275.00	21-0	21-1	21-1	21-2	21-3	21-4	21-5	21-5	21-6	21-7
300.00	25-0	25-1	25-2	25-3	25-4	25-5	25-6	25-7	25-8	25-8
325.00	29-5	29-6	29-7	29-8	29-9	29-10	29-11	30-1	30-2	30-2
350.00	34-2	34-3	34-4	34-6	34-7	34-8	34-10	34-11	35-0	35-1
375.00	39-3	39-5	39-6	39-8	39-9	39-11	40-0	40-2	40-3	40-4

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-3	6-3	6-3	6-3	6-3	6-4	6-4	6-4	6-4	6-5
175.00	8-5	8-6	8-6	8-6	8-7	8-7	8-7	8-8	8-8	8-8
200.00	11-1	11-1	11-2	11-2	11-2	11-3	11-3	11-4	11-4	11-4
225.00	14-0	14-1	14-1	14-2	14-2	14-3	14-3	14-4	14-4	14-5
250.00	17-4	17-4	17-5	17-6	17-6	17-7	17-8	17-8	17-9	17-9
275.00	21-0	21-1	21-1	21-2	21-3	21-4	21-5	21-5	21-6	21-7
300.00	25-0	25-1	25-2	25-3	25-4	25-5	25-6	25-7	25-8	25-8
325.00	29-5	29-6	29-7	29-8	29-9	29-10	30-0	30-1	30-2	30-2
350.00	34-2	34-3	34-4	34-6	34-7	34-8	34-10	34-11	35-0	35-1
375.00	39-3	39-5	39-6	39-8	39-9	39-11	40-0	40-2	40-3	40-4

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SHEET 208 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.208

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-4	11-4	11-4	11-4	11-4	11-5	11-5	11-5	11-5	11-6
225.00	14-4	14-4	14-4	14-5	14-5	14-5	14-5	14-6	14-6	14-6
250.00	17-8	17-9	17-9	17-9	17-10	17-10	17-10	17-11	17-11	17-11
275.00	21-5	21-6	21-6	21-7	21-7	21-7	21-8	21-8	21-9	21-9
300.00	25-7	25-7	25-8	25-8	25-9	25-9	25-10	25-10	25-11	25-11
325.00	30-0	30-1	30-2	30-2	30-3	30-3	30-4	30-5	30-5	30-6
350.00	34-11	34-11	35-0	35-1	35-2	35-2	35-3	35-4	35-4	35-5
375.00	40-2	40-2	40-3	40-4	40-5	40-6	40-7	40-7	40-8	40-9
400.00	45-9	45-10	45-11	46-0	46-1	46-2	46-3	46-4	46-5	46-5
425.00	51-9	51-10	51-11	52-0	52-1	52-3	52-4	52-5	52-6	52-6
450.00	58-2	58-3	58-4	58-6	58-7	58-8	58-9	58-11	59-0	59-1
475.00	65-0	65-1	65-2	65-4	65-5	65-6	65-8	65-9	65-11	65-11
500.00	72-2	72-4	72-5	72-7	72-8	72-10	72-11	73-1	73-2	73-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-4	11-4	11-4	11-4	11-4	11-5	11-5	11-5	11-5	11-6
225.00	14-4	14-4	14-4	14-5	14-5	14-5	14-6	14-6	14-6	14-6
250.00	17-8	17-9	17-9	17-9	17-10	17-10	17-10	17-11	17-11	17-11
275.00	21-5	21-6	21-6	21-7	21-7	21-7	21-8	21-8	21-9	21-9
300.00	25-7	25-7	25-8	25-8	25-9	25-9	25-10	25-10	25-11	25-11
325.00	30-0	30-1	30-2	30-2	30-3	30-4	30-4	30-5	30-5	30-6
350.00	34-11	34-11	35-0	35-1	35-2	35-2	35-3	35-4	35-4	35-5
375.00	40-2	40-2	40-3	40-4	40-5	40-6	40-7	40-8	40-8	40-9
400.00	45-9	45-10	45-11	46-0	46-1	46-2	46-3	46-4	46-5	46-5
425.00	51-9	51-10	51-11	52-1	52-2	52-3	52-4	52-5	52-6	52-6
450.00	58-2	58-3	58-5	58-6	58-7	58-8	58-9	58-11	59-0	59-1
475.00	65-0	65-1	65-2	65-4	65-5	65-7	65-8	65-9	65-11	65-11
500.00	72-2	72-4	72-5	72-7	72-8	72-10	72-11	73-1	73-2	73-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.209

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	18-2	18-2	18-2	18-2	18-3	18-3	18-3	18-3	18-4	18-4
275.00	22-0	22-0	22-0	22-1	22-1	22-1	22-2	22-2	22-2	22-2
300.00	26-3	26-3	26-3	26-4	26-4	26-4	26-4	26-5	26-5	26-5
325.00	30-10	30-10	30-11	30-11	30-11	31-0	31-0	31-0	31-1	31-1
350.00	35-10	35-10	35-11	35-11	35-11	36-0	36-0	36-1	36-1	36-2
375.00	41-2	41-3	41-3	41-4	41-4	41-5	41-5	41-6	41-6	41-7
400.00	46-11	47-0	47-1	47-1	47-2	47-2	47-3	47-4	47-4	47-5
425.00	53-2	53-2	53-3	53-4	53-4	53-5	53-6	53-6	53-7	53-7
450.00	59-9	59-9	59-10	59-11	60-0	60-0	60-1	60-2	60-3	60-3
475.00	66-8	66-9	66-10	66-11	67-0	67-1	67-2	67-2	67-3	67-4
500.00	74-1	74-2	74-3	74-4	74-5	74-6	74-7	74-8	74-9	74-9
525.00	81-11	82-0	82-1	82-2	82-3	82-4	82-6	82-7	82-8	82-8
550.00	90-2	90-3	90-5	90-6	90-7	90-8	90-9	90-10	91-0	91-0
575.00	98-11	99-0	99-1	99-2	99-4	99-5	99-6	99-8	99-9	99-10
600.00	108-0	108-2	108-3	108-4	108-6	108-7	108-9	108-10	108-11	109-0
625.00	117-7	117-9	117-10	118-0	118-1	118-3	118-4	118-6	118-8	118-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	18-2	18-2	18-2	18-2	18-3	18-3	18-3	18-3	18-4	18-4
275.00	22-0	22-0	22-0	22-1	22-1	22-1	22-2	22-2	22-2	22-2
300.00	26-3	26-3	26-3	26-4	26-4	26-4	26-5	26-5	26-5	26-5
325.00	30-10	30-10	30-11	30-11	30-11	31-0	31-0	31-1	31-1	31-1
350.00	35-10	35-10	35-11	35-11	35-11	36-0	36-0	36-1	36-1	36-2
375.00	41-2	41-3	41-3	41-4	41-4	41-5	41-5	41-6	41-6	41-7
400.00	47-0	47-0	47-1	47-1	47-2	47-3	47-3	47-4	47-4	47-5
425.00	53-2	53-2	53-3	53-4	53-4	53-5	53-6	53-6	53-7	53-7
450.00	59-9	59-9	59-10	59-11	60-0	60-0	60-1	60-2	60-3	60-3
475.00	66-8	66-9	66-10	66-11	67-0	67-1	67-2	67-2	67-3	67-4
500.00	74-1	74-2	74-3	74-4	74-5	74-6	74-7	74-8	74-9	74-9
525.00	81-11	82-0	82-1	82-2	82-4	82-5	82-6	82-7	82-8	82-8
550.00	90-2	90-4	90-5	90-6	90-7	90-8	90-9	90-11	91-0	91-0
575.00	98-11	99-0	99-1	99-3	99-4	99-5	99-6	99-8	99-9	99-10
600.00	108-0	108-2	108-3	108-5	108-6	108-7	108-9	108-10	108-11	109-0
625.00	117-7	117-9	117-10	118-0	118-2	118-3	118-5	118-6	118-8	118-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.210

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	2.186	1.82	1500	1.82	1500*
20	0	0	0	1.134	1.34	1058	1.33	1068
30	0	0	0	1.134	1.48	958	1.47	968
40	0	0	0	1.134	1.61	880	1.59	890
50	0	0	0	1.134	1.74	818	1.72	827
60	0	0	0	1.134	1.85	767	1.83	775
70	0	0	0	1.134	1.96	724	1.94	731
80	0	0	0	1.134	2.07	687	2.05	694
90	0	0	0	1.134	2.17	655	2.15	662
100	0	0	0	1.134	2.26	627	2.24	633
110	0	0	0	1.134	2.33	608	2.33	608
120	0	0	0	1.134	2.39	594	2.39	594
130	0	0	0	1.134	2.44	582	2.44	582
167	0	0	0	1.134	2.62	543	2.62	543
212	0	0	0	1.134	2.82	504	2.82	504

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	2.186	7.32	1500	7.32	1500*
20	0	0	0	1.134	6.86	830	6.84	832
30	0	0	0	1.134	6.99	815	6.97	817
40	0	0	0	1.134	7.11	801	7.09	803
50	0	0	0	1.134	7.23	788	7.21	790
60	0	0	0	1.134	7.35	775	7.33	777
70	0	0	0	1.134	7.47	763	7.45	765
80	0	0	0	1.134	7.59	752	7.57	754
90	0	0	0	1.134	7.7	740	7.68	743
100	0	0	0	1.134	7.82	730	7.79	732
110	0	0	0	1.134	7.93	720	7.9	722
120	0	0	0	1.134	8.02	712	8.01	712
130	0	0	0	1.134	8.1	705	8.1	705
167	0	0	0	1.134	8.33	685	8.33	685
212	0	0	0	1.134	8.6	664	8.6	664

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.211

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	16.59	1500	16.59	1500*
20	0	0	0	1.134	16.14	800	16.12	801
30	0	0	0	1.134	16.26	794	16.24	795
40	0	0	0	1.134	16.38	788	16.36	789
50	0	0	0	1.134	16.5	782	16.48	783
60	0	0	0	1.134	16.62	777	16.6	778
70	0	0	0	1.134	16.74	772	16.72	772
80	0	0	0	1.134	16.86	766	16.84	767
90	0	0	0	1.134	16.98	761	16.96	762
100	0	0	0	1.134	17.1	756	17.07	757
110	0	0	0	1.134	17.21	751	17.19	752
120	0	0	0	1.134	17.32	746	17.3	747
130	0	0	0	1.134	17.41	742	17.41	742
167	0	0	0	1.134	17.67	732	17.67	732
212	0	0	0	1.134	17.97	720	17.97	720

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	29.79	1500	29.79	1500*
20	0	0	0	1.134	29.33	790	29.32	790
30	0	0	0	1.134	29.46	787	29.44	787
40	0	0	0	1.134	29.58	784	29.56	784
50	0	0	0	1.134	29.7	781	29.68	781
60	0	0	0	1.134	29.82	778	29.8	778
70	0	0	0	1.134	29.94	775	29.92	775
80	0	0	0	1.134	30.06	772	30.04	772
90	0	0	0	1.134	30.18	769	30.15	769
100	0	0	0	1.134	30.3	766	30.27	766
110	0	0	0	1.134	30.42	763	30.39	764
120	0	0	0	1.134	30.53	760	30.51	761
130	0	0	0	1.134	30.62	758	30.62	758
167	0	0	0	1.134	30.89	752	30.89	752
212	0	0	0	1.134	31.21	745	31.21	745

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	47.16	1500	47.16	1500*
20	0	0	0	1.134	46.71	785	46.69	786
30	0	0	0	1.134	46.83	783	46.81	784
40	0	0	0	1.134	46.95	782	46.93	782
50	0	0	0	1.134	47.07	780	47.05	780
60	0	0	0	1.134	47.19	778	47.17	778
70	0	0	0	1.134	47.31	776	47.29	776
80	0	0	0	1.134	47.43	774	47.41	774
90	0	0	0	1.134	47.55	772	47.53	773
100	0	0	0	1.134	47.67	771	47.64	771
110	0	0	0	1.134	47.79	769	47.76	769
120	0	0	0	1.134	47.91	767	47.88	767
130	0	0	0	1.134	48	766	48	766
167	0	0	0	1.134	48.27	762	48.27	762
212	0	0	0	1.134	48.6	757	48.6	757

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4
100.00	1-4	1-6	1-7	1-9	1-10	1-11	2-1	2-2	2-3	2-4
125.00	2-1	2-3	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
150.00	3-0	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-1	5-3
175.00	4-1	4-6	4-11	5-3	5-7	5-11	6-3	6-7	6-11	7-2
200.00	5-4	5-10	6-5	6-10	7-4	7-9	8-2	8-7	9-0	9-4

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-3	1-4
100.00	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-2	2-3	2-4
125.00	2-1	2-4	2-6	2-9	2-11	3-1	3-3	3-5	3-6	3-8
150.00	3-0	3-4	3-8	3-11	4-2	4-5	4-8	4-11	5-1	5-3
175.00	4-1	4-6	4-11	5-4	5-8	6-0	6-4	6-8	6-11	7-2
200.00	5-4	5-11	6-5	6-11	7-5	7-10	8-3	8-8	9-1	9-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11	1-11	2-0
125.00	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-1
150.00	3-10	3-11	4-0	4-1	4-1	4-2	4-3	4-4	4-5	4-5
175.00	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-11	6-0	6-1
200.00	6-10	7-0	7-1	7-3	7-4	7-5	7-7	7-8	7-9	7-11
225.00	8-8	8-10	9-0	9-2	9-3	9-5	9-7	9-9	9-10	10-0
250.00	10-8	10-11	11-1	11-3	11-6	11-8	11-10	12-0	12-2	12-4

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11	1-11	2-0
125.00	2-8	2-9	2-9	2-10	2-10	2-11	3-0	3-0	3-1	3-1
150.00	3-10	3-11	4-0	4-1	4-2	4-2	4-3	4-4	4-5	4-5
175.00	5-3	5-4	5-5	5-6	5-8	5-9	5-10	5-11	6-0	6-1
200.00	6-10	7-0	7-1	7-3	7-4	7-6	7-7	7-8	7-10	7-11
225.00	8-8	8-10	9-0	9-2	9-4	9-6	9-7	9-9	9-11	10-0
250.00	10-9	10-11	11-1	11-4	11-6	11-8	11-10	12-1	12-3	12-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.215

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-0	4-1	4-1	4-1	4-2	4-2	4-2	4-3	4-3	4-3
175.00	5-6	5-6	5-7	5-7	5-8	5-8	5-9	5-9	5-10	5-10
200.00	7-2	7-2	7-3	7-4	7-4	7-5	7-6	7-6	7-7	7-7
225.00	9-1	9-1	9-2	9-3	9-4	9-5	9-5	9-6	9-7	9-8
250.00	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11
275.00	13-6	13-8	13-9	13-10	13-11	14-0	14-2	14-3	14-4	14-5
300.00	16-1	16-3	16-4	16-6	16-7	16-9	16-10	16-11	17-1	17-2
325.00	18-11	19-1	19-3	19-4	19-6	19-8	19-9	19-11	20-1	20-2
350.00	22-0	22-2	22-4	22-6	22-8	22-10	22-11	23-1	23-3	23-5
375.00	25-3	25-5	25-7	25-10	26-0	26-2	26-4	26-7	26-9	26-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-0	4-1	4-1	4-1	4-2	4-2	4-2	4-3	4-3	4-3
175.00	5-6	5-6	5-7	5-7	5-8	5-8	5-9	5-9	5-10	5-10
200.00	7-2	7-3	7-3	7-4	7-4	7-5	7-6	7-6	7-7	7-8
225.00	9-1	9-2	9-2	9-3	9-4	9-5	9-6	9-6	9-7	9-8
250.00	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11
275.00	13-7	13-8	13-9	13-10	14-0	14-1	14-2	14-3	14-4	14-5
300.00	16-2	16-3	16-5	16-6	16-7	16-9	16-10	17-0	17-1	17-3
325.00	18-11	19-1	19-3	19-5	19-6	19-8	19-10	19-11	20-1	20-3
350.00	22-0	22-2	22-4	22-6	22-8	22-10	23-0	23-2	23-4	23-6
375.00	25-3	25-6	25-8	25-10	26-0	26-3	26-5	26-7	26-9	27-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.216

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-3	7-4	7-4	7-5	7-5	7-5	7-6	7-6	7-6	7-7
225.00	9-3	9-3	9-4	9-4	9-5	9-5	9-5	9-6	9-6	9-7
250.00	11-5	11-5	11-6	11-7	11-7	11-8	11-8	11-9	11-9	11-10
275.00	13-10	13-10	13-11	14-0	14-0	14-1	14-2	14-2	14-3	14-4
300.00	16-5	16-6	16-7	16-8	16-8	16-9	16-10	16-11	17-0	17-0
325.00	19-4	19-5	19-6	19-7	19-7	19-8	19-9	19-10	19-11	20-0
350.00	22-5	22-6	22-7	22-8	22-9	22-10	22-11	23-1	23-2	23-3
375.00	25-9	25-10	25-11	26-1	26-2	26-3	26-5	26-6	26-7	26-8
400.00	29-4	29-5	29-7	29-8	29-10	29-11	30-0	30-2	30-3	30-5
425.00	33-2	33-3	33-5	33-6	33-8	33-10	33-11	34-1	34-2	34-4
450.00	37-2	37-4	37-6	37-8	37-9	37-11	38-1	38-3	38-5	38-6
475.00	41-6	41-8	41-10	42-0	42-2	42-4	42-6	42-8	42-10	43-0
500.00	46-0	46-2	46-4	46-7	46-9	46-11	47-2	47-4	47-6	47-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-4	7-4	7-4	7-5	7-5	7-5	7-6	7-6	7-6	7-7
225.00	9-3	9-3	9-4	9-4	9-5	9-5	9-6	9-6	9-6	9-7
250.00	11-5	11-5	11-6	11-7	11-7	11-8	11-8	11-9	11-9	11-10
275.00	13-10	13-10	13-11	14-0	14-0	14-1	14-2	14-2	14-3	14-4
300.00	16-5	16-6	16-7	16-8	16-9	16-9	16-10	16-11	17-0	17-1
325.00	19-4	19-5	19-6	19-7	19-8	19-9	19-10	19-10	19-11	20-0
350.00	22-5	22-6	22-7	22-8	22-9	22-11	23-0	23-1	23-2	23-3
375.00	25-9	25-10	26-0	26-1	26-2	26-3	26-5	26-6	26-7	26-8
400.00	29-4	29-5	29-7	29-8	29-10	29-11	30-1	30-2	30-4	30-5
425.00	33-2	33-3	33-5	33-7	33-8	33-10	34-0	34-1	34-3	34-4
450.00	37-2	37-4	37-6	37-8	37-10	38-0	38-1	38-3	38-5	38-7
475.00	41-6	41-8	41-10	42-0	42-2	42-4	42-6	42-8	42-10	43-0
500.00	46-0	46-3	46-5	46-7	46-9	47-0	47-2	47-4	47-6	47-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.217

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-7	11-7	11-8	11-8	11-8	11-9	11-9	11-9	11-10	11-10
275.00	14-0	14-1	14-1	14-1	14-2	14-2	14-3	14-3	14-4	14-4
300.00	16-8	16-9	16-9	16-10	16-10	16-11	16-11	17-0	17-0	17-1
325.00	19-7	19-8	19-8	19-9	19-10	19-10	19-11	19-11	20-0	20-1
350.00	22-9	22-10	22-10	22-11	23-0	23-0	23-1	23-2	23-2	23-3
375.00	26-2	26-2	26-3	26-4	26-5	26-6	26-6	26-7	26-8	26-9
400.00	29-9	29-10	29-11	30-0	30-1	30-2	30-3	30-3	30-4	30-5
425.00	33-8	33-9	33-10	33-11	34-0	34-1	34-2	34-3	34-4	34-5
450.00	37-9	37-10	37-11	38-0	38-1	38-3	38-4	38-5	38-6	38-7
475.00	42-1	42-2	42-4	42-5	42-6	42-8	42-9	42-10	42-11	43-1
500.00	46-8	46-10	46-11	47-1	47-2	47-3	47-5	47-6	47-8	47-9
525.00	51-6	51-8	51-10	51-11	52-1	52-2	52-4	52-6	52-7	52-9
550.00	56-8	56-9	56-11	57-1	57-3	57-4	57-6	57-8	57-10	57-11
575.00	62-0	62-2	62-4	62-5	62-7	62-9	62-11	63-1	63-3	63-5
600.00	67-7	67-9	67-11	68-1	68-3	68-5	68-7	68-9	69-0	69-2
625.00	73-5	73-7	73-10	74-0	74-2	74-4	74-7	74-9	74-11	75-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-7	11-7	11-8	11-8	11-8	11-9	11-9	11-9	11-10	11-10
275.00	14-0	14-1	14-1	14-1	14-2	14-2	14-3	14-3	14-4	14-4
300.00	16-8	16-9	16-9	16-10	16-10	16-11	16-11	17-0	17-0	17-1
325.00	19-7	19-8	19-8	19-9	19-10	19-10	19-11	19-11	20-0	20-1
350.00	22-9	22-10	22-10	22-11	23-0	23-1	23-1	23-2	23-3	23-3
375.00	26-2	26-3	26-3	26-4	26-5	26-6	26-7	26-7	26-8	26-9
400.00	29-9	29-10	29-11	30-0	30-1	30-2	30-3	30-4	30-5	30-5
425.00	33-8	33-9	33-10	33-11	34-0	34-1	34-2	34-3	34-4	34-5
450.00	37-9	37-10	37-11	38-1	38-2	38-3	38-4	38-5	38-6	38-7
475.00	42-1	42-3	42-4	42-5	42-6	42-8	42-9	42-10	43-0	43-1
500.00	46-8	46-10	46-11	47-1	47-2	47-4	47-5	47-7	47-8	47-9
525.00	51-7	51-8	51-10	51-11	52-1	52-3	52-4	52-6	52-7	52-9
550.00	56-8	56-10	56-11	57-1	57-3	57-5	57-6	57-8	57-10	58-0
575.00	62-0	62-2	62-4	62-6	62-8	62-10	63-0	63-1	63-3	63-5
600.00	67-7	67-9	67-11	68-1	68-4	68-6	68-8	68-10	69-0	69-2
625.00	73-5	73-8	73-10	74-0	74-3	74-5	74-7	74-9	75-0	75-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	1.38	1981	1.37	2000*
20	0	0	0	1.134	0.74	1913	0.73	1948
30	0	0	0	1.134	0.91	1559	0.88	1613
40	0	0	0	1.134	1.08	1319	1.03	1370
50	0	0	0	1.134	1.23	1151	1.19	1195
60	0	0	0	1.134	1.38	1028	1.33	1065
70	0	0	0	1.134	1.52	935	1.47	966
80	0	0	0	1.134	1.65	862	1.6	889
90	0	0	0	1.134	1.77	803	1.72	826
100	0	0	0	1.134	1.88	754	1.83	774
110	0	0	0	1.134	1.99	713	1.94	731
120	0	0	0	1.134	2.06	690	2.05	694
130	0	0	0	1.134	2.11	672	2.11	672
167	0	0	0	1.134	2.31	616	2.3	616
212	0	0	0	1.134	2.53	562	2.53	563

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	5.5	1994	5.48	2000*
20	0	0	0	1.134	4.84	1175	4.79	1187
30	0	0	0	1.134	5.01	1135	4.96	1147
40	0	0	0	1.134	5.18	1098	5.12	1110
50	0	0	0	1.134	5.34	1065	5.28	1076
60	0	0	0	1.134	5.5	1035	5.44	1045
70	0	0	0	1.134	5.65	1007	5.59	1017
80	0	0	0	1.134	5.8	981	5.74	990
90	0	0	0	1.134	5.95	957	5.89	966
100	0	0	0	1.134	6.09	934	6.03	943
110	0	0	0	1.134	6.23	913	6.17	922
120	0	0	0	1.134	6.37	894	6.31	902
130	0	0	0	1.134	6.5	875	6.44	884
167	0	0	0	1.134	6.8	838	6.8	838
212	0	0	0	1.134	7.12	800	7.12	800

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	2.186	12.4	1997	12.38	2000*
20	0	0	0	1.134	11.74	1093	11.69	1098
30	0	0	0	1.134	11.91	1078	11.86	1083
40	0	0	0	1.134	12.07	1064	12.02	1068
50	0	0	0	1.134	12.24	1050	12.18	1054
60	0	0	0	1.134	12.39	1036	12.34	1041
70	0	0	0	1.134	12.55	1023	12.49	1028
80	0	0	0	1.134	12.71	1011	12.65	1016
90	0	0	0	1.134	12.86	999	12.8	1004
100	0	0	0	1.134	13.02	988	12.95	992
110	0	0	0	1.134	13.17	976	13.1	981
120	0	0	0	1.134	13.32	966	13.25	970
130	0	0	0	1.134	13.46	955	13.4	960
167	0	0	0	1.134	13.85	929	13.85	929
212	0	0	0	1.134	14.23	905	14.23	905

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	2.186	22.14	1998	22.12	2000*
20	0	0	0	1.134	21.49	1067	21.44	1070
30	0	0	0	1.134	21.66	1060	21.6	1062
40	0	0	0	1.134	21.82	1052	21.76	1054
50	0	0	0	1.134	21.98	1044	21.92	1047
60	0	0	0	1.134	22.14	1037	22.08	1040
70	0	0	0	1.134	22.3	1030	22.24	1032
80	0	0	0	1.134	22.46	1023	22.4	1025
90	0	0	0	1.134	22.62	1016	22.56	1018
100	0	0	0	1.134	22.77	1009	22.71	1012
110	0	0	0	1.134	22.93	1002	22.86	1005
120	0	0	0	1.134	23.08	996	23.02	998
130	0	0	0	1.134	23.23	989	23.17	992
167	0	0	0	1.134	23.67	971	23.67	971
212	0	0	0	1.134	24.07	956	24.07	956

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.220

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	34.83	1999	34.81	2000*
20	0	0	0	1.134	34.18	1056	34.13	1058
30	0	0	0	1.134	34.35	1051	34.29	1053
40	0	0	0	1.134	34.51	1046	34.45	1048
50	0	0	0	1.134	34.67	1042	34.61	1043
60	0	0	0	1.134	34.83	1037	34.77	1039
70	0	0	0	1.134	34.99	1033	34.93	1034
80	0	0	0	1.134	35.15	1028	35.09	1030
90	0	0	0	1.134	35.31	1024	35.25	1025
100	0	0	0	1.134	35.47	1019	35.4	1021
110	0	0	0	1.134	35.62	1015	35.56	1017
120	0	0	0	1.134	35.78	1011	35.72	1012
130	0	0	0	1.134	35.94	1007	35.87	1008
167	0	0	0	1.134	36.4	994	36.4	994
212	0	0	0	1.134	36.82	983	36.82	983

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1
100.00	0-9	0-11	1-0	1-2	1-4	1-6	1-7	1-9	1-10	1-11
125.00	1-2	1-4	1-7	1-10	2-1	2-4	2-6	2-8	2-10	3-0
150.00	1-8	2-0	2-4	2-8	3-0	3-4	3-7	3-10	4-2	4-4
175.00	2-3	2-8	3-2	3-8	4-1	4-6	4-11	5-3	5-7	5-11
200.00	2-11	3-6	4-2	4-9	5-4	5-11	6-5	6-11	7-4	7-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1
100.00	0-9	0-11	1-1	1-3	1-5	1-6	1-8	1-9	1-11	2-0
125.00	1-2	1-5	1-8	1-11	2-2	2-4	2-7	2-9	2-11	3-1
150.00	1-8	2-1	2-5	2-9	3-1	3-5	3-8	4-0	4-3	4-6
175.00	2-3	2-9	3-4	3-9	4-3	4-8	5-1	5-5	5-9	6-1
200.00	3-0	3-8	4-4	4-11	5-6	6-1	6-7	7-1	7-6	8-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7
125.00	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-4	2-4	2-5
150.00	2-8	2-9	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6
175.00	3-8	3-10	3-11	4-1	4-2	4-3	4-5	4-6	4-7	4-9
200.00	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-0	6-2
225.00	6-1	6-3	6-6	6-8	6-11	7-1	7-3	7-5	7-8	7-10
250.00	7-6	7-9	8-0	8-3	8-6	8-9	9-0	9-3	9-5	9-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-3	1-3	1-4	1-4	1-4	1-5	1-5	1-6	1-6	1-7
125.00	1-11	1-11	2-0	2-1	2-2	2-2	2-3	2-4	2-5	2-5
150.00	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6
175.00	3-8	3-10	4-0	4-1	4-2	4-4	4-5	4-7	4-8	4-9
200.00	4-10	5-0	5-2	5-4	5-6	5-8	5-10	5-11	6-1	6-3
225.00	6-1	6-4	6-7	6-9	6-11	7-2	7-4	7-6	7-9	7-11
250.00	7-7	7-10	8-1	8-4	8-7	8-10	9-1	9-4	9-6	9-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-11	3-0	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3
175.00	4-0	4-0	4-1	4-2	4-2	4-3	4-4	4-4	4-5	4-5
200.00	5-2	5-3	5-4	5-5	5-6	5-7	5-7	5-8	5-9	5-10
225.00	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4
250.00	8-1	8-3	8-4	8-5	8-7	8-8	8-9	8-11	9-0	9-1
275.00	9-10	10-0	10-1	10-3	10-4	10-6	10-8	10-9	10-11	11-0
300.00	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-10	12-11	13-1
325.00	13-9	13-11	14-1	14-4	14-6	14-8	14-10	15-0	15-3	15-5
350.00	15-11	16-2	16-4	16-7	16-10	17-0	17-3	17-5	17-8	17-10
375.00	18-3	18-7	18-10	19-1	19-4	19-7	19-10	20-0	20-3	20-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-3
175.00	4-0	4-1	4-1	4-2	4-3	4-3	4-4	4-4	4-5	4-6
200.00	5-3	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-9	5-10
225.00	6-7	6-8	6-9	6-11	7-0	7-1	7-2	7-3	7-4	7-5
250.00	8-2	8-3	8-5	8-6	8-7	8-9	8-10	8-11	9-0	9-2
275.00	9-10	10-0	10-2	10-3	10-5	10-7	10-8	10-10	10-11	11-1
300.00	11-9	11-11	12-1	12-3	12-5	12-7	12-9	12-10	13-0	13-2
325.00	13-9	14-0	14-2	14-4	14-7	14-9	14-11	15-1	15-3	15-6
350.00	16-0	16-3	16-5	16-8	16-11	17-1	17-4	17-6	17-9	17-11
375.00	18-4	18-8	18-11	19-2	19-5	19-8	19-11	20-2	20-4	20-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.224

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-7	5-8	5-8
225.00	6-9	6-10	6-10	6-11	7-0	7-0	7-1	7-1	7-2	7-3
250.00	8-4	8-5	8-6	8-7	8-7	8-8	8-9	8-9	8-10	8-11
275.00	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-9
300.00	12-0	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10
325.00	14-2	14-3	14-4	14-5	14-7	14-8	14-9	14-10	15-0	15-1
350.00	16-5	16-6	16-8	16-9	16-11	17-0	17-2	17-3	17-4	17-6
375.00	18-10	19-0	19-1	19-3	19-5	19-6	19-8	19-10	19-11	20-1
400.00	21-5	21-7	21-9	21-11	22-1	22-3	22-5	22-7	22-9	22-10
425.00	24-3	24-5	24-7	24-9	24-11	25-1	25-4	25-6	25-8	25-10
450.00	27-2	27-4	27-7	27-9	28-0	28-2	28-5	28-7	28-9	29-0
475.00	30-3	30-6	30-9	31-0	31-2	31-5	31-8	31-10	32-1	32-4
500.00	33-7	33-10	34-1	34-4	34-7	34-10	35-1	35-4	35-7	35-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-8	5-8	5-9
225.00	6-9	6-10	6-11	6-11	7-0	7-0	7-1	7-2	7-2	7-3
250.00	8-5	8-5	8-6	8-7	8-8	8-8	8-9	8-10	8-10	8-11
275.00	10-2	10-3	10-4	10-4	10-5	10-6	10-7	10-8	10-9	10-10
300.00	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10
325.00	14-2	14-3	14-5	14-6	14-7	14-8	14-10	14-11	15-0	15-1
350.00	16-5	16-7	16-8	16-10	16-11	17-1	17-2	17-4	17-5	17-6
375.00	18-11	19-0	19-2	19-4	19-5	19-7	19-9	19-10	20-0	20-2
400.00	21-6	21-8	21-10	22-0	22-2	22-4	22-6	22-7	22-9	22-11
425.00	24-3	24-6	24-8	24-10	25-0	25-2	25-4	25-7	25-9	25-11
450.00	27-3	27-5	27-8	27-10	28-1	28-3	28-5	28-8	28-10	29-1
475.00	30-4	30-7	30-10	31-1	31-3	31-6	31-9	31-11	32-2	32-5
500.00	33-8	33-11	34-2	34-5	34-8	34-11	35-2	35-5	35-8	35-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.225

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-6	8-6	8-7	8-7	8-8	8-8	8-9	8-9	8-10	8-10
275.00	10-3	10-4	10-5	10-5	10-6	10-6	10-7	10-7	10-8	10-8
300.00	12-3	12-4	12-4	12-5	12-6	12-6	12-7	12-8	12-8	12-9
325.00	14-4	14-5	14-6	14-7	14-8	14-8	14-9	14-10	14-11	15-0
350.00	16-8	16-9	16-10	16-11	17-0	17-1	17-2	17-3	17-3	17-4
375.00	19-2	19-3	19-4	19-5	19-6	19-7	19-8	19-9	19-10	19-11
400.00	21-10	21-11	22-0	22-1	22-2	22-4	22-5	22-6	22-7	22-8
425.00	24-7	24-9	24-10	25-0	25-1	25-2	25-4	25-5	25-6	25-8
450.00	27-7	27-9	27-11	28-0	28-2	28-3	28-5	28-6	28-8	28-9
475.00	30-9	30-11	31-1	31-3	31-4	31-6	31-8	31-9	31-11	32-1
500.00	34-2	34-4	34-5	34-7	34-9	34-11	35-1	35-3	35-5	35-7
525.00	37-8	37-10	38-0	38-2	38-4	38-6	38-9	38-11	39-1	39-3
550.00	41-4	41-7	41-9	41-11	42-2	42-4	42-6	42-9	42-11	43-1
575.00	45-3	45-5	45-8	45-10	46-1	46-4	46-6	46-9	46-11	47-2
600.00	49-3	49-6	49-9	50-0	50-3	50-5	50-8	50-11	51-2	51-4
625.00	53-6	53-9	54-0	54-3	54-6	54-9	55-0	55-3	55-6	55-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-6	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-10	8-10
275.00	10-4	10-4	10-5	10-5	10-6	10-6	10-7	10-8	10-8	10-9
300.00	12-3	12-4	12-4	12-5	12-6	12-7	12-7	12-8	12-9	12-9
325.00	14-5	14-6	14-6	14-7	14-8	14-9	14-10	14-10	14-11	15-0
350.00	16-8	16-9	16-10	16-11	17-0	17-1	17-2	17-3	17-4	17-5
375.00	19-2	19-3	19-4	19-5	19-6	19-8	19-9	19-10	19-11	20-0
400.00	21-10	21-11	22-0	22-2	22-3	22-4	22-5	22-7	22-8	22-9
425.00	24-8	24-9	24-11	25-0	25-1	25-3	25-4	25-6	25-7	25-8
450.00	27-8	27-9	27-11	28-1	28-2	28-4	28-5	28-7	28-8	28-10
475.00	30-10	31-0	31-2	31-3	31-5	31-7	31-8	31-10	32-0	32-2
500.00	34-2	34-4	34-6	34-8	34-10	35-0	35-2	35-4	35-6	35-7
525.00	37-9	37-11	38-1	38-3	38-5	38-7	38-9	38-11	39-2	39-4
550.00	41-5	41-7	41-10	42-0	42-2	42-5	42-7	42-9	43-0	43-2
575.00	45-4	45-6	45-9	45-11	46-2	46-4	46-7	46-10	47-0	47-3
600.00	49-4	49-7	49-10	50-1	50-4	50-6	50-9	51-0	51-3	51-5
625.00	53-7	53-10	54-1	54-4	54-7	54-10	55-1	55-4	55-7	55-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.226

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	1.15	2379	1.09	2500*
20	0	0	0	1.134	0.49	2900	0.46	3054
30	0	0	0	1.134	0.62	2273	0.57	2496
40	0	0	0	1.134	0.78	1808	0.7	2030
50	0	0	0	1.134	0.95	1488	0.85	1672
60	0	0	0	1.134	1.12	1270	1	1413
70	0	0	0	1.134	1.27	1115	1.16	1226
80	0	0	0	1.134	1.42	1002	1.3	1088
90	0	0	0	1.134	1.55	915	1.44	984
100	0	0	0	1.134	1.68	846	1.57	903
110	0	0	0	1.134	1.8	790	1.69	838
120	0	0	0	1.134	1.87	759	1.81	784
130	0	0	0	1.134	1.93	736	1.92	740
167	0	0	0	1.134	2.13	666	2.12	670
212	0	0	0	1.134	2.37	601	2.35	604

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	4.46	2456	4.38	2500*
20	0	0	0	1.134	3.6	1577	3.46	1642
30	0	0	0	1.134	3.82	1488	3.67	1546
40	0	0	0	1.134	4.02	1412	3.88	1464
50	0	0	0	1.134	4.22	1345	4.08	1393
60	0	0	0	1.134	4.41	1287	4.27	1330
70	0	0	0	1.134	4.6	1235	4.46	1275
80	0	0	0	1.134	4.78	1189	4.64	1225
90	0	0	0	1.134	4.95	1148	4.81	1181
100	0	0	0	1.134	5.12	1110	4.98	1141
110	0	0	0	1.134	5.28	1076	5.15	1105
120	0	0	0	1.134	5.44	1045	5.31	1071
130	0	0	0	1.134	5.6	1016	5.46	1041
167	0	0	0	1.134	5.96	955	5.95	956
212	0	0	0	1.134	6.31	902	6.31	903

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.227

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	9.96	2479	9.88	2500*
20	0	0	0	1.134	9.1	1407	8.95	1430
30	0	0	0	1.134	9.31	1375	9.16	1397
40	0	0	0	1.134	9.52	1346	9.37	1367
50	0	0	0	1.134	9.72	1318	9.57	1339
60	0	0	0	1.134	9.92	1292	9.77	1312
70	0	0	0	1.134	10.11	1268	9.96	1287
80	0	0	0	1.134	10.3	1244	10.15	1263
90	0	0	0	1.134	10.49	1222	10.34	1240
100	0	0	0	1.134	10.67	1202	10.52	1219
110	0	0	0	1.134	10.85	1182	10.7	1198
120	0	0	0	1.134	11.03	1163	10.88	1179
130	0	0	0	1.134	11.21	1145	11.06	1160
167	0	0	0	1.134	11.73	1095	11.68	1099
212	0	0	0	1.134	12.15	1057	12.15	1057

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	17.71	2488	17.62	2500*
20	0	0	0	1.134	16.85	1356	16.7	1368
30	0	0	0	1.134	17.06	1339	16.91	1351
40	0	0	0	1.134	17.26	1324	17.11	1335
50	0	0	0	1.134	17.46	1309	17.31	1320
60	0	0	0	1.134	17.66	1294	17.51	1305
70	0	0	0	1.134	17.86	1280	17.7	1291
80	0	0	0	1.134	18.05	1267	17.9	1277
90	0	0	0	1.134	18.24	1253	18.09	1264
100	0	0	0	1.134	18.44	1241	18.28	1251
110	0	0	0	1.134	18.63	1228	18.47	1239
120	0	0	0	1.134	18.81	1216	18.66	1226
130	0	0	0	1.134	19	1205	18.84	1215
167	0	0	0	1.134	19.61	1168	19.51	1174
212	0	0	0	1.134	20.08	1141	20.08	1141

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.228

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	27.75	2492	27.66	2500*
20	0	0	0	1.134	26.89	1333	26.74	1341
30	0	0	0	1.134	27.09	1324	26.94	1331
40	0	0	0	1.134	27.29	1314	27.14	1321
50	0	0	0	1.134	27.49	1305	27.34	1312
60	0	0	0	1.134	27.69	1295	27.54	1302
70	0	0	0	1.134	27.89	1286	27.74	1293
80	0	0	0	1.134	28.09	1277	27.93	1284
90	0	0	0	1.134	28.29	1269	28.13	1276
100	0	0	0	1.134	28.48	1260	28.32	1267
110	0	0	0	1.134	28.67	1252	28.52	1259
120	0	0	0	1.134	28.87	1244	28.71	1251
130	0	0	0	1.134	29.06	1236	28.9	1243
167	0	0	0	1.134	29.73	1209	29.59	1215
212	0	0	0	1.134	30.23	1190	30.23	1190

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11
100.00	0-6	0-7	0-8	0-10	1-0	1-2	1-4	1-5	1-7	1-8
125.00	0-9	0-11	1-1	1-4	1-7	1-10	2-0	2-3	2-5	2-8
150.00	1-1	1-3	1-7	1-11	2-3	2-7	2-11	3-3	3-6	3-10
175.00	1-5	1-9	2-2	2-7	3-1	3-7	4-0	4-5	4-10	5-2
200.00	1-10	2-3	2-10	3-5	4-0	4-8	5-3	5-9	6-4	6-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-8	0-9	0-10	0-10	0-11	1-0
100.00	0-6	0-7	0-9	0-11	1-1	1-3	1-5	1-7	1-8	1-10
125.00	0-9	1-0	1-3	1-6	1-9	2-0	2-3	2-5	2-7	2-10
150.00	1-1	1-5	1-9	2-2	2-6	2-10	3-2	3-6	3-9	4-1
175.00	1-6	1-11	2-5	2-11	3-5	3-11	4-4	4-9	5-2	5-6
200.00	1-11	2-6	3-2	3-10	4-6	5-1	5-8	6-3	6-9	7-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-11	2-0
150.00	1-11	2-1	2-2	2-4	2-5	2-6	2-7	2-8	2-10	2-11
175.00	2-8	2-10	3-0	3-1	3-3	3-5	3-7	3-8	3-10	3-11
200.00	3-5	3-8	3-11	4-1	4-3	4-5	4-8	4-10	5-0	5-2
225.00	4-5	4-8	4-11	5-2	5-5	5-8	5-10	6-1	6-4	6-6
250.00	5-5	5-9	6-1	6-4	6-8	7-0	7-3	7-6	7-9	8-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4
125.00	1-5	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-1
150.00	2-0	2-2	2-3	2-4	2-6	2-7	2-8	2-9	2-11	3-0
175.00	2-9	2-11	3-1	3-3	3-5	3-6	3-8	3-9	3-11	4-1
200.00	3-7	3-10	4-0	4-3	4-5	4-7	4-9	4-11	5-1	5-3
225.00	4-7	4-10	5-1	5-4	5-7	5-10	6-1	6-3	6-6	6-8
250.00	5-8	6-0	6-3	6-7	6-11	7-2	7-6	7-9	8-0	8-3

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STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-3	2-4	2-5	2-5	2-6	2-6	2-7	2-8	2-8
175.00	3-1	3-1	3-2	3-3	3-4	3-5	3-5	3-6	3-7	3-8
200.00	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9
225.00	5-0	5-2	5-3	5-5	5-6	5-7	5-8	5-10	5-11	6-0
250.00	6-3	6-4	6-6	6-8	6-9	6-11	7-1	7-2	7-4	7-5
275.00	7-6	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-10	9-0
300.00	8-11	9-2	9-4	9-7	9-9	10-0	10-2	10-4	10-6	10-8
325.00	10-6	10-9	11-0	11-3	11-6	11-8	11-11	12-2	12-4	12-7
350.00	12-2	12-6	12-9	13-0	13-4	13-7	13-10	14-1	14-4	14-7
375.00	14-0	14-4	14-8	15-0	15-3	15-7	15-10	16-2	16-5	16-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-8	2-9
175.00	3-1	3-2	3-3	3-4	3-4	3-5	3-6	3-7	3-8	3-8
200.00	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10
225.00	5-1	5-3	5-4	5-6	5-7	5-8	5-9	5-11	6-0	6-1
250.00	6-4	6-6	6-7	6-9	6-11	7-0	7-2	7-3	7-5	7-6
275.00	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-10	9-0	9-1
300.00	9-1	9-4	9-6	9-9	9-11	10-1	10-4	10-6	10-8	10-10
325.00	10-8	10-11	11-2	11-5	11-8	11-10	12-1	12-4	12-6	12-9
350.00	12-5	12-8	13-0	13-3	13-6	13-9	14-0	14-3	14-6	14-9
375.00	14-3	14-7	14-11	15-2	15-6	15-10	16-1	16-5	16-8	17-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.232

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-2	4-3	4-3	4-4	4-4	4-5	4-6	4-6	4-7	4-7
225.00	5-3	5-4	5-5	5-6	5-6	5-7	5-8	5-9	5-9	5-10
250.00	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-2
275.00	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-8	8-9
300.00	9-5	9-6	9-7	9-9	9-10	9-11	10-1	10-2	10-3	10-5
325.00	11-0	11-2	11-3	11-5	11-7	11-8	11-10	11-11	12-1	12-2
350.00	12-9	12-11	13-1	13-3	13-5	13-7	13-8	13-10	14-0	14-2
375.00	14-8	14-10	15-0	15-2	15-5	15-7	15-9	15-11	16-1	16-3
400.00	16-8	16-11	17-1	17-4	17-6	17-8	17-11	18-1	18-3	18-6
425.00	18-10	19-1	19-4	19-7	19-9	20-0	20-3	20-5	20-8	20-10
450.00	21-2	21-5	21-8	21-11	22-2	22-5	22-8	22-11	23-2	23-5
475.00	23-7	23-10	24-2	24-5	24-9	25-0	25-3	25-6	25-10	26-1
500.00	26-2	26-5	26-9	27-1	27-5	27-8	28-0	28-4	28-7	28-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-2	4-3	4-4	4-4	4-5	4-5	4-6	4-7	4-7	4-8
225.00	5-4	5-5	5-5	5-6	5-7	5-8	5-8	5-9	5-10	5-11
250.00	6-7	6-8	6-9	6-10	6-11	7-0	7-0	7-1	7-2	7-3
275.00	7-11	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9
300.00	9-6	9-7	9-8	9-10	9-11	10-0	10-2	10-3	10-4	10-6
325.00	11-1	11-3	11-5	11-6	11-8	11-9	11-11	12-0	12-2	12-3
350.00	12-11	13-1	13-2	13-4	13-6	13-8	13-10	14-0	14-1	14-3
375.00	14-10	15-0	15-2	15-4	15-6	15-8	15-10	16-0	16-2	16-4
400.00	16-10	17-1	17-3	17-6	17-8	17-10	18-1	18-3	18-5	18-8
425.00	19-0	19-3	19-6	19-9	19-11	20-2	20-5	20-7	20-10	21-0
450.00	21-4	21-7	21-10	22-1	22-4	22-7	22-10	23-1	23-4	23-7
475.00	23-9	24-1	24-4	24-8	24-11	25-2	25-6	25-9	26-0	26-4
500.00	26-4	26-8	27-0	27-4	27-8	27-11	28-3	28-7	28-10	29-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.233

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-8	6-9	6-9	6-10	6-10	6-11	7-0	7-0	7-1	7-1
275.00	8-1	8-2	8-2	8-3	8-4	8-4	8-5	8-6	8-7	8-7
300.00	9-7	9-8	9-9	9-10	9-11	10-0	10-0	10-1	10-2	10-3
325.00	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0
350.00	13-1	13-2	13-3	13-4	13-6	13-7	13-8	13-9	13-10	13-11
375.00	15-0	15-2	15-3	15-4	15-6	15-7	15-8	15-10	15-11	16-0
400.00	17-1	17-3	17-4	17-6	17-7	17-9	17-10	18-0	18-1	18-3
425.00	19-4	19-5	19-7	19-9	19-11	20-0	20-2	20-4	20-5	20-7
450.00	21-8	21-10	22-0	22-2	22-3	22-5	22-7	22-9	22-11	23-1
475.00	24-1	24-4	24-6	24-8	24-10	25-0	25-2	25-5	25-7	25-9
500.00	26-9	26-11	27-2	27-4	27-6	27-9	27-11	28-2	28-4	28-6
525.00	29-6	29-9	29-11	30-2	30-5	30-7	30-10	31-0	31-3	31-5
550.00	32-5	32-7	32-10	33-1	33-4	33-7	33-10	34-1	34-4	34-6
575.00	35-5	35-8	35-11	36-2	36-6	36-9	37-0	37-3	37-6	37-9
600.00	38-7	38-10	39-2	39-5	39-9	40-0	40-4	40-7	40-10	41-2
625.00	41-10	42-2	42-6	42-10	43-2	43-5	43-9	44-1	44-4	44-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-8	6-9	6-10	6-10	6-11	6-11	7-0	7-1	7-1	7-2
275.00	8-1	8-2	8-3	8-4	8-4	8-5	8-6	8-6	8-7	8-8
300.00	9-8	9-9	9-10	9-10	9-11	10-0	10-1	10-2	10-3	10-4
325.00	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1
350.00	13-2	13-3	13-4	13-5	13-7	13-8	13-9	13-10	13-11	14-0
375.00	15-1	15-3	15-4	15-5	15-7	15-8	15-9	15-11	16-0	16-1
400.00	17-2	17-4	17-5	17-7	17-8	17-10	17-11	18-1	18-2	18-4
425.00	19-5	19-7	19-8	19-10	20-0	20-2	20-3	20-5	20-7	20-8
450.00	21-9	21-11	22-1	22-3	22-5	22-7	22-9	22-11	23-1	23-2
475.00	24-3	24-5	24-7	24-10	25-0	25-2	25-4	25-6	25-8	25-10
500.00	26-11	27-1	27-4	27-6	27-8	27-11	28-1	28-3	28-6	28-8
525.00	29-8	29-11	30-1	30-4	30-7	30-9	31-0	31-2	31-5	31-8
550.00	32-7	32-10	33-1	33-4	33-6	33-9	34-0	34-3	34-6	34-9
575.00	35-7	35-10	36-2	36-5	36-8	36-11	37-2	37-6	37-9	38-0
600.00	38-9	39-1	39-4	39-8	39-11	40-3	40-6	40-10	41-1	41-4
625.00	42-1	42-5	42-9	43-1	43-4	43-8	44-0	44-4	44-7	44-11

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SHEET 234 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.234

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	1	2721	0.91	3000*
20	0	0	0	1.134	0.38	3714	0.35	4003
30	0	0	0	1.134	0.48	2947	0.42	3366
40	0	0	0	1.134	0.61	2309	0.51	2771
50	0	0	0	1.134	0.77	1834	0.63	2253
60	0	0	0	1.134	0.94	1506	0.77	1840
70	0	0	0	1.134	1.11	1282	0.92	1533
80	0	0	0	1.134	1.26	1124	1.08	1312
90	0	0	0	1.134	1.41	1008	1.23	1152
100	0	0	0	1.134	1.54	920	1.37	1033
110	0	0	0	1.134	1.67	850	1.51	941
120	0	0	0	1.134	1.74	816	1.63	869
130	0	0	0	1.134	1.8	790	1.75	810
167	0	0	0	1.134	2.01	708	1.99	714
212	0	0	0	1.134	2.25	632	2.23	637

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	3.8	2883	3.65	3000*
20	0	0	0	1.134	2.76	2059	2.52	2254
30	0	0	0	1.134	3.01	1888	2.76	2056
40	0	0	0	1.134	3.25	1748	3	1893
50	0	0	0	1.134	3.48	1632	3.23	1758
60	0	0	0	1.134	3.7	1535	3.45	1645
70	0	0	0	1.134	3.91	1452	3.67	1549
80	0	0	0	1.134	4.11	1381	3.87	1466
90	0	0	0	1.134	4.31	1318	4.07	1394
100	0	0	0	1.134	4.5	1263	4.27	1332
110	0	0	0	1.134	4.68	1214	4.45	1276
120	0	0	0	1.134	4.86	1170	4.63	1227
130	0	0	0	1.134	5.03	1130	4.81	1182
167	0	0	0	1.134	5.43	1047	5.41	1051
212	0	0	0	1.134	5.8	980	5.79	982

* Design Condition

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SHEET 235 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.235

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	8.39	2940	8.22	3000*
20	0	0	0	1.134	7.31	1749	7.04	1816
30	0	0	0	1.134	7.56	1691	7.29	1753
40	0	0	0	1.134	7.81	1638	7.54	1696
50	0	0	0	1.134	8.05	1590	7.78	1644
60	0	0	0	1.134	8.28	1546	8.01	1597
70	0	0	0	1.134	8.51	1505	8.24	1553
80	0	0	0	1.134	8.73	1467	8.46	1512
90	0	0	0	1.134	8.94	1431	8.68	1474
100	0	0	0	1.134	9.16	1398	8.9	1439
110	0	0	0	1.134	9.37	1368	9.11	1406
120	0	0	0	1.134	9.57	1339	9.31	1375
130	0	0	0	1.134	9.77	1311	9.51	1346
167	0	0	0	1.134	10.4	1232	10.23	1253
212	0	0	0	1.134	10.86	1181	10.86	1181

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	14.83	2964	14.65	3000*
20	0	0	0	1.134	13.74	1658	13.47	1692
30	0	0	0	1.134	13.99	1629	13.72	1661
40	0	0	0	1.134	14.23	1601	13.96	1633
50	0	0	0	1.134	14.47	1575	14.2	1605
60	0	0	0	1.134	14.71	1550	14.44	1579
70	0	0	0	1.134	14.94	1526	14.67	1554
80	0	0	0	1.134	15.17	1503	14.9	1531
90	0	0	0	1.134	15.4	1481	15.13	1508
100	0	0	0	1.134	15.62	1460	15.35	1486
110	0	0	0	1.134	15.84	1440	15.57	1465
120	0	0	0	1.134	16.06	1421	15.79	1445
130	0	0	0	1.134	16.28	1403	16	1426
167	0	0	0	1.134	17.05	1340	16.78	1361
212	0	0	0	1.134	17.59	1300	17.58	1300

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.236

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	23.14	2977	22.96	3000*
20	0	0	0	1.134	22.05	1619	21.78	1639
30	0	0	0	1.134	22.3	1602	22.02	1622
40	0	0	0	1.134	22.54	1585	22.27	1604
50	0	0	0	1.134	22.78	1568	22.51	1587
60	0	0	0	1.134	23.02	1552	22.75	1571
70	0	0	0	1.134	23.26	1537	22.98	1555
80	0	0	0	1.134	23.49	1522	23.21	1540
90	0	0	0	1.134	23.72	1507	23.45	1525
100	0	0	0	1.134	23.95	1493	23.67	1510
110	0	0	0	1.134	24.18	1479	23.9	1496
120	0	0	0	1.134	24.41	1466	24.13	1483
130	0	0	0	1.134	24.63	1453	24.35	1469
167	0	0	0	1.134	25.44	1407	25.16	1423
212	0	0	0	1.134	26.08	1374	26.08	1374

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.237

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10
100.00	0-4	0-5	0-6	0-8	0-9	0-11	1-1	1-3	1-4	1-6
125.00	0-7	0-8	0-10	1-0	1-2	1-5	1-8	1-11	2-2	2-4
150.00	0-10	0-11	1-2	1-5	1-9	2-1	2-5	2-9	3-1	3-5
175.00	1-1	1-3	1-7	1-11	2-4	2-10	3-4	3-9	4-2	4-7
200.00	1-5	1-8	2-1	2-6	3-1	3-8	4-4	4-11	5-6	6-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-9	0-10	0-11
100.00	0-5	0-6	0-7	0-9	0-11	1-1	1-3	1-5	1-7	1-8
125.00	0-7	0-9	1-0	1-2	1-6	1-9	2-0	2-2	2-5	2-7
150.00	0-10	1-1	1-5	1-9	2-1	2-6	2-10	3-2	3-6	3-9
175.00	1-2	1-6	1-11	2-4	2-11	3-5	3-10	4-4	4-9	5-1
200.00	1-6	1-11	2-5	3-1	3-9	4-5	5-1	5-8	6-2	6-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.238

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1
125.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
150.00	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-3	2-5	2-6
175.00	1-11	2-1	2-4	2-6	2-8	2-10	3-0	3-1	3-3	3-5
200.00	2-6	2-9	3-0	3-3	3-5	3-8	3-10	4-1	4-3	4-5
225.00	3-2	3-6	3-10	4-1	4-4	4-8	4-11	5-2	5-5	5-8
250.00	3-11	4-4	4-8	5-1	5-5	5-9	6-1	6-4	6-8	7-0

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2
125.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
150.00	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-5	2-6	2-8
175.00	2-1	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-5	3-7
200.00	2-9	3-0	3-3	3-6	3-8	3-11	4-1	4-4	4-6	4-8
225.00	3-6	3-10	4-1	4-5	4-8	4-11	5-2	5-5	5-8	5-11
250.00	4-4	4-8	5-1	5-5	5-9	6-1	6-5	6-9	7-0	7-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.239

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-3
175.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1
200.00	3-2	3-3	3-4	3-5	3-7	3-8	3-9	3-10	3-11	4-1
225.00	4-0	4-1	4-3	4-4	4-6	4-8	4-9	4-11	5-0	5-1
250.00	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-0	6-2	6-4
275.00	5-11	6-2	6-4	6-6	6-9	6-11	7-1	7-4	7-6	7-8
300.00	7-0	7-4	7-6	7-9	8-0	8-3	8-6	8-8	8-11	9-1
325.00	8-3	8-7	8-10	9-2	9-5	9-8	9-11	10-2	10-5	10-8
350.00	9-7	9-11	10-3	10-7	10-11	11-3	11-6	11-10	12-1	12-5
375.00	11-0	11-5	11-9	12-2	12-6	12-11	13-3	13-7	13-11	14-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4
175.00	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-2
200.00	3-3	3-4	3-6	3-7	3-8	3-9	3-11	4-0	4-1	4-2
225.00	4-1	4-3	4-5	4-6	4-8	4-9	4-11	5-0	5-2	5-3
250.00	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-4	6-6
275.00	6-2	6-4	6-7	6-9	6-11	7-2	7-4	7-6	7-8	7-10
300.00	7-4	7-7	7-10	8-1	8-3	8-6	8-9	8-11	9-2	9-4
325.00	8-7	8-11	9-2	9-5	9-9	10-0	10-3	10-6	10-9	11-0
350.00	9-11	10-4	10-8	10-11	11-3	11-7	11-11	12-2	12-6	12-9
375.00	11-5	11-10	12-2	12-7	12-11	13-4	13-8	14-0	14-4	14-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-4	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10	3-11
225.00	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-9	4-10	4-11
250.00	5-3	5-4	5-5	5-6	5-8	5-9	5-10	5-11	6-0	6-1
275.00	6-4	6-6	6-7	6-8	6-10	6-11	7-0	7-2	7-3	7-4
300.00	7-7	7-9	7-10	8-0	8-1	8-3	8-4	8-6	8-8	8-9
325.00	8-11	9-1	9-3	9-4	9-6	9-8	9-10	10-0	10-2	10-3
350.00	10-4	10-6	10-8	10-10	11-1	11-3	11-5	11-7	11-9	11-11
375.00	11-10	12-1	12-3	12-6	12-8	12-11	13-1	13-4	13-6	13-8
400.00	13-6	13-9	14-0	14-2	14-5	14-8	14-11	15-2	15-4	15-7
425.00	15-2	15-6	15-9	16-0	16-4	16-7	16-10	17-1	17-4	17-7
450.00	17-1	17-4	17-8	18-0	18-3	18-7	18-10	19-2	19-5	19-9
475.00	19-0	19-4	19-8	20-0	20-4	20-8	21-0	21-4	21-8	22-0
500.00	21-1	21-5	21-10	22-3	22-7	22-11	23-4	23-8	24-0	24-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10	3-11	3-11
225.00	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-10	4-11	5-0
250.00	5-4	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2
275.00	6-6	6-7	6-9	6-10	6-11	7-1	7-2	7-3	7-5	7-6
300.00	7-9	7-10	8-0	8-2	8-3	8-5	8-6	8-8	8-9	8-11
325.00	9-1	9-3	9-5	9-7	9-8	9-10	10-0	10-2	10-4	10-5
350.00	10-6	10-8	10-11	11-1	11-3	11-5	11-7	11-9	11-11	12-2
375.00	12-1	12-4	12-6	12-9	12-11	13-2	13-4	13-6	13-9	13-11
400.00	13-9	14-0	14-3	14-6	14-9	14-11	15-2	15-5	15-7	15-10
425.00	15-6	15-10	16-1	16-4	16-7	16-10	17-2	17-5	17-8	17-11
450.00	17-5	17-9	18-0	18-4	18-8	18-11	19-3	19-6	19-9	20-1
475.00	19-5	19-9	20-1	20-5	20-9	21-1	21-5	21-9	22-1	22-4
500.00	21-6	21-11	22-3	22-8	23-0	23-4	23-9	24-1	24-5	24-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.241

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-5	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-11	6-0
275.00	6-7	6-8	6-9	6-10	6-10	6-11	7-0	7-1	7-2	7-3
300.00	7-10	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7
325.00	9-2	9-3	9-5	9-6	9-7	9-8	9-10	9-11	10-0	10-1
350.00	10-8	10-9	10-11	11-0	11-2	11-3	11-4	11-6	11-7	11-8
375.00	12-3	12-4	12-6	12-8	12-9	12-11	13-0	13-2	13-4	13-5
400.00	13-11	14-1	14-3	14-5	14-7	14-8	14-10	15-0	15-2	15-3
425.00	15-9	15-11	16-1	16-3	16-5	16-7	16-9	16-11	17-1	17-3
450.00	17-8	17-10	18-0	18-3	18-5	18-7	18-10	19-0	19-2	19-4
475.00	19-8	19-10	20-1	20-4	20-6	20-9	20-11	21-2	21-4	21-7
500.00	21-9	22-0	22-3	22-6	22-9	23-0	23-3	23-5	23-8	23-11
525.00	24-0	24-3	24-7	24-10	25-1	25-4	25-7	25-10	26-1	26-4
550.00	26-4	26-8	26-11	27-3	27-6	27-10	28-1	28-5	28-8	28-11
575.00	28-10	29-2	29-6	29-10	30-1	30-5	30-9	31-0	31-4	31-8
600.00	31-5	31-9	32-1	32-5	32-10	33-2	33-6	33-10	34-2	34-6
625.00	34-1	34-6	34-10	35-3	35-7	36-0	36-4	36-8	37-1	37-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-6	5-7	5-7	5-8	5-9	5-10	5-10	5-11	6-0	6-0
275.00	6-8	6-9	6-10	6-11	6-11	7-0	7-1	7-2	7-3	7-4
300.00	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8
325.00	9-4	9-5	9-6	9-7	9-9	9-10	9-11	10-0	10-1	10-2
350.00	10-10	10-11	11-0	11-2	11-3	11-5	11-6	11-7	11-9	11-10
375.00	12-5	12-6	12-8	12-10	12-11	13-1	13-2	13-4	13-5	13-7
400.00	14-1	14-3	14-5	14-7	14-9	14-10	15-0	15-2	15-4	15-6
425.00	15-11	16-1	16-3	16-5	16-7	16-9	17-0	17-2	17-4	17-5
450.00	17-10	18-1	18-3	18-5	18-8	18-10	19-0	19-2	19-5	19-7
475.00	19-11	20-1	20-4	20-7	20-9	21-0	21-2	21-5	21-7	21-10
500.00	22-1	22-4	22-7	22-9	23-0	23-3	23-6	23-9	23-11	24-2
525.00	24-4	24-7	24-10	25-2	25-5	25-8	25-11	26-2	26-5	26-8
550.00	26-8	27-0	27-4	27-7	27-10	28-2	28-5	28-9	29-0	29-3
575.00	29-2	29-6	29-10	30-2	30-6	30-9	31-1	31-5	31-9	32-0
600.00	31-10	32-2	32-6	32-10	33-2	33-6	33-10	34-3	34-6	34-10
625.00	34-6	34-11	35-3	35-8	36-0	36-5	36-9	37-2	37-6	37-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.242

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	2.186	2.74	1000	2.74	1000*
0	0	0	0	1.134	2.52	563	2.52	565
30	0	0	0	1.134	2.78	512	2.77	513
40	0	0	0	1.134	2.86	498	2.85	500
50	0	0	0	1.134	2.93	485	2.92	487
60	0	0	0	1.134	3.01	473	3	475
70	0	0	0	1.134	3.08	462	3.07	464
80	0	0	0	1.134	3.15	452	3.14	454
90	0	0	0	1.134	3.21	444	3.21	444
100	0	0	0	1.134	3.25	438	3.25	438
110	0	0	0	1.134	3.29	433	3.29	433
120	0	0	0	1.134	3.33	428	3.33	428
130	0	0	0	1.134	3.36	423	3.36	423
167	0	0	0	1.134	3.5	407	3.5	407
212	0	0	0	1.134	3.67	389	3.67	389

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	2.186	11.06	1000	11.06	1000*
0	0	0	0	1.134	10.85	529	10.84	529
30	0	0	0	1.134	11.1	517	11.09	517
40	0	0	0	1.134	11.18	513	11.17	514
50	0	0	0	1.134	11.26	510	11.25	510
60	0	0	0	1.134	11.34	506	11.33	507
70	0	0	0	1.134	11.42	503	11.41	504
80	0	0	0	1.134	11.5	500	11.48	500
90	0	0	0	1.134	11.56	497	11.56	497
100	0	0	0	1.134	11.63	494	11.63	494
110	0	0	0	1.134	11.68	492	11.68	492
120	0	0	0	1.134	11.72	490	11.72	490
130	0	0	0	1.134	11.77	489	11.77	489
167	0	0	0	1.134	11.93	482	11.93	482
212	0	0	0	1.134	12.14	474	12.14	474

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.243

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	2.186	25.29	1000	25.29	1000*
0	0	0	0	1.134	25.08	523	25.07	523
30	0	0	0	1.134	25.33	518	25.32	518
40	0	0	0	1.134	25.41	517	25.4	517
50	0	0	0	1.134	25.49	515	25.48	515
60	0	0	0	1.134	25.57	513	25.56	514
70	0	0	0	1.134	25.65	512	25.64	512
80	0	0	0	1.134	25.73	510	25.72	511
90	0	0	0	1.134	25.8	509	25.79	509
100	0	0	0	1.134	25.87	508	25.87	508
110	0	0	0	1.134	25.92	507	25.92	507
120	0	0	0	1.134	25.97	506	25.97	506
130	0	0	0	1.134	26.01	505	26.01	505
167	0	0	0	1.134	26.19	502	26.19	502
212	0	0	0	1.134	26.4	498	26.4	498

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	2.186	46.04	1000	46.04	1000*
0	0	0	0	1.134	45.83	521	45.82	521
30	0	0	0	1.134	46.08	518	46.07	519
40	0	0	0	1.134	46.16	518	46.15	518
50	0	0	0	1.134	46.24	517	46.23	517
60	0	0	0	1.134	46.32	516	46.31	516
70	0	0	0	1.134	46.4	515	46.39	515
80	0	0	0	1.134	46.48	514	46.47	515
90	0	0	0	1.134	46.56	514	46.55	514
100	0	0	0	1.134	46.62	513	46.62	513
110	0	0	0	1.134	46.67	513	46.67	513
120	0	0	0	1.134	46.72	512	46.72	512
130	0	0	0	1.134	46.77	512	46.77	512
167	0	0	0	1.134	46.95	510	46.95	510
212	0	0	0	1.134	47.16	508	47.16	508

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.244

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	2.186	74.39	1000	74.39	1000*
0	0	0	0	1.134	74.18	520	74.17	520
30	0	0	0	1.134	74.43	519	74.42	519
40	0	0	0	1.134	74.51	518	74.5	518
50	0	0	0	1.134	74.59	518	74.58	518
60	0	0	0	1.134	74.67	517	74.66	517
70	0	0	0	1.134	74.75	517	74.74	517
80	0	0	0	1.134	74.83	516	74.82	516
90	0	0	0	1.134	74.91	516	74.9	516
100	0	0	0	1.134	74.98	515	74.98	515
110	0	0	0	1.134	75.03	515	75.03	515
120	0	0	0	1.134	75.07	515	75.07	515
130	0	0	0	1.134	75.12	515	75.12	515
167	0	0	0	1.134	75.3	514	75.3	514
212	0	0	0	1.134	75.52	512	75.52	512

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-6	1-7	1-7	1-8	1-8	1-9	1-9	1-10	1-10	1-10
100.00	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-2	3-3	3-3
125.00	4-2	4-4	4-5	4-7	4-8	4-10	4-11	5-0	5-1	5-2
150.00	6-1	6-3	6-5	6-7	6-9	6-11	7-1	7-3	7-4	7-5
175.00	8-3	8-6	8-9	9-0	9-2	9-5	9-8	9-10	10-0	10-1
200.00	10-10	11-1	11-5	11-9	12-0	12-4	12-7	12-10	13-1	13-2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-6	1-7	1-7	1-8	1-8	1-9	1-9	1-10	1-10	1-10
100.00	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-2	3-3	3-3
125.00	4-3	4-4	4-6	4-7	4-8	4-10	4-11	5-0	5-1	5-2
150.00	6-1	6-3	6-5	6-7	6-9	6-11	7-1	7-3	7-4	7-5
175.00	8-3	8-6	8-9	9-0	9-3	9-5	9-8	9-10	10-0	10-1
200.00	10-10	11-2	11-6	11-9	12-1	12-4	12-8	12-10	13-1	13-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.246

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-9	2-9	2-9	2-10	2-10	2-10	2-10	2-11	2-11	2-11
125.00	4-3	4-4	4-4	4-5	4-5	4-5	4-6	4-6	4-6	4-7
150.00	6-2	6-3	6-3	6-4	6-4	6-5	6-5	6-6	6-6	6-7
175.00	8-5	8-6	8-7	8-7	8-8	8-9	8-9	8-10	8-11	8-11
200.00	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-8
225.00	13-11	14-1	14-2	14-3	14-4	14-5	14-7	14-8	14-9	14-10
250.00	17-3	17-4	17-6	17-7	17-9	17-10	18-0	18-1	18-3	18-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-9	2-9	2-9	2-10	2-10	2-10	2-10	2-11	2-11	2-11
125.00	4-4	4-4	4-4	4-5	4-5	4-5	4-6	4-6	4-6	4-7
150.00	6-2	6-3	6-3	6-4	6-4	6-5	6-5	6-6	6-6	6-7
175.00	8-5	8-6	8-7	8-7	8-8	8-9	8-10	8-10	8-11	8-11
200.00	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-8
225.00	14-0	14-1	14-2	14-3	14-4	14-6	14-7	14-8	14-9	14-10
250.00	17-3	17-5	17-6	17-8	17-9	17-11	18-0	18-1	18-3	18-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.247

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-3	6-3	6-4	6-4	6-4	6-4	6-5	6-5	6-5	6-5
175.00	8-6	8-7	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-9
200.00	11-2	11-2	11-3	11-3	11-4	11-4	11-4	11-5	11-5	11-5
225.00	14-2	14-2	14-3	14-3	14-4	14-4	14-5	14-5	14-6	14-6
250.00	17-6	17-6	17-7	17-8	17-8	17-9	17-10	17-10	17-11	17-11
275.00	21-2	21-3	21-4	21-5	21-5	21-6	21-7	21-8	21-8	21-9
300.00	25-3	25-4	25-5	25-6	25-7	25-8	25-9	25-10	25-10	25-11
325.00	29-8	29-9	29-10	29-11	30-1	30-2	30-3	30-4	30-5	30-6
350.00	34-6	34-7	34-8	34-10	34-11	35-0	35-1	35-3	35-4	35-5
375.00	39-8	39-9	39-11	40-0	40-2	40-3	40-5	40-6	40-8	40-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-3	6-3	6-4	6-4	6-4	6-4	6-5	6-5	6-5	6-5
175.00	8-6	8-7	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-9
200.00	11-2	11-2	11-3	11-3	11-4	11-4	11-4	11-5	11-5	11-5
225.00	14-2	14-2	14-3	14-3	14-4	14-4	14-5	14-5	14-6	14-6
250.00	17-6	17-6	17-7	17-8	17-8	17-9	17-10	17-10	17-11	17-11
275.00	21-2	21-3	21-4	21-5	21-5	21-6	21-7	21-8	21-8	21-9
300.00	25-3	25-4	25-5	25-6	25-7	25-8	25-9	25-10	25-10	25-11
325.00	29-8	29-9	29-10	30-0	30-1	30-2	30-3	30-4	30-5	30-6
350.00	34-6	34-7	34-8	34-10	34-11	35-0	35-2	35-3	35-4	35-5
375.00	39-8	39-9	39-11	40-0	40-2	40-3	40-5	40-6	40-8	40-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.248

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-4	11-4	11-5	11-5	11-5	11-5	11-6	11-6	11-6	11-6
225.00	14-5	14-5	14-5	14-5	14-6	14-6	14-6	14-7	14-7	14-7
250.00	17-9	17-10	17-10	17-10	17-11	17-11	18-0	18-0	18-0	18-0
275.00	21-7	21-7	21-7	21-8	21-8	21-9	21-9	21-10	21-10	21-10
300.00	25-8	25-9	25-9	25-10	25-10	25-11	25-11	26-0	26-0	26-1
325.00	30-2	30-3	30-3	30-4	30-5	30-5	30-6	30-7	30-7	30-8
350.00	35-1	35-2	35-2	35-3	35-4	35-4	35-5	35-6	35-7	35-7
375.00	40-4	40-5	40-6	40-7	40-7	40-8	40-9	40-10	40-11	40-11
400.00	46-0	46-1	46-2	46-3	46-4	46-5	46-6	46-7	46-7	46-8
425.00	52-0	52-1	52-3	52-4	52-5	52-6	52-7	52-8	52-9	52-10
450.00	58-6	58-7	58-8	58-9	58-11	59-0	59-1	59-2	59-3	59-4
475.00	65-4	65-5	65-6	65-8	65-9	65-11	66-0	66-1	66-3	66-3
500.00	72-7	72-8	72-10	72-11	73-1	73-2	73-4	73-5	73-7	73-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-4	11-4	11-5	11-5	11-5	11-5	11-6	11-6	11-6	11-6
225.00	14-5	14-5	14-5	14-6	14-6	14-6	14-6	14-7	14-7	14-7
250.00	17-9	17-10	17-10	17-10	17-11	17-11	18-0	18-0	18-0	18-0
275.00	21-7	21-7	21-7	21-8	21-8	21-9	21-9	21-10	21-10	21-10
300.00	25-8	25-9	25-9	25-10	25-10	25-11	25-11	26-0	26-0	26-1
325.00	30-2	30-3	30-4	30-4	30-5	30-5	30-6	30-7	30-7	30-8
350.00	35-1	35-2	35-2	35-3	35-4	35-5	35-5	35-6	35-7	35-7
375.00	40-4	40-5	40-6	40-7	40-8	40-8	40-9	40-10	40-11	40-11
400.00	46-0	46-1	46-2	46-3	46-4	46-5	46-6	46-7	46-7	46-8
425.00	52-1	52-2	52-3	52-4	52-5	52-6	52-7	52-8	52-9	52-10
450.00	58-6	58-7	58-8	58-9	58-11	59-0	59-1	59-2	59-3	59-4
475.00	65-4	65-5	65-7	65-8	65-9	65-11	66-0	66-1	66-3	66-3
500.00	72-7	72-8	72-10	72-11	73-1	73-2	73-4	73-5	73-7	73-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.249

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	18-2	18-3	18-3	18-3	18-3	18-4	18-4	18-4	18-4	18-4
275.00	22-1	22-1	22-1	22-2	22-2	22-2	22-2	22-3	22-3	22-3
300.00	26-4	26-4	26-4	26-4	26-5	26-5	26-5	26-6	26-6	26-6
325.00	30-11	30-11	31-0	31-0	31-0	31-1	31-1	31-2	31-2	31-2
350.00	35-11	35-11	36-0	36-0	36-1	36-1	36-2	36-2	36-3	36-3
375.00	41-4	41-4	41-5	41-5	41-6	41-6	41-7	41-7	41-8	41-8
400.00	47-1	47-2	47-2	47-3	47-4	47-4	47-5	47-5	47-6	47-6
425.00	53-4	53-4	53-5	53-6	53-6	53-7	53-8	53-8	53-9	53-9
450.00	59-11	60-0	60-0	60-1	60-2	60-3	60-3	60-4	60-5	60-5
475.00	66-11	67-0	67-1	67-2	67-2	67-3	67-4	67-5	67-6	67-6
500.00	74-4	74-5	74-6	74-7	74-8	74-9	74-10	74-11	75-0	75-0
525.00	82-2	82-3	82-4	82-6	82-7	82-8	82-9	82-10	82-11	82-11
550.00	90-6	90-7	90-8	90-9	90-10	91-0	91-1	91-2	91-3	91-4
575.00	99-2	99-4	99-5	99-6	99-8	99-9	99-10	99-11	100-1	100-2
600.00	108-4	108-6	108-7	108-9	108-10	108-11	109-1	109-2	109-4	109-5
625.00	118-0	118-1	118-3	118-4	118-6	118-8	118-9	118-11	119-0	119-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	18-2	18-3	18-3	18-3	18-3	18-4	18-4	18-4	18-4	18-4
275.00	22-1	22-1	22-1	22-2	22-2	22-2	22-2	22-3	22-3	22-3
300.00	26-4	26-4	26-4	26-5	26-5	26-5	26-6	26-6	26-6	26-6
325.00	30-11	30-11	31-0	31-0	31-1	31-1	31-1	31-2	31-2	31-2
350.00	35-11	35-11	36-0	36-0	36-1	36-1	36-2	36-2	36-3	36-3
375.00	41-4	41-4	41-5	41-5	41-6	41-6	41-7	41-7	41-8	41-8
400.00	47-1	47-2	47-3	47-3	47-4	47-4	47-5	47-5	47-6	47-6
425.00	53-4	53-4	53-5	53-6	53-6	53-7	53-8	53-8	53-9	53-9
450.00	59-11	60-0	60-0	60-1	60-2	60-3	60-3	60-4	60-5	60-5
475.00	66-11	67-0	67-1	67-2	67-2	67-3	67-4	67-5	67-6	67-6
500.00	74-4	74-5	74-6	74-7	74-8	74-9	74-10	74-11	75-0	75-0
525.00	82-2	82-4	82-5	82-6	82-7	82-8	82-9	82-10	82-11	82-11
550.00	90-6	90-7	90-8	90-9	90-11	91-0	91-1	91-2	91-3	91-4
575.00	99-3	99-4	99-5	99-6	99-8	99-9	99-10	100-0	100-1	100-2
600.00	108-5	108-6	108-7	108-9	108-10	109-0	109-1	109-2	109-4	109-5
625.00	118-0	118-2	118-3	118-5	118-6	118-8	118-9	118-11	119-0	119-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.250

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	1.82	1500	1.82	1500*
0	0	0	0	1.134	1.48	959	1.46	969
30	0	0	0	1.134	1.85	767	1.83	775
40	0	0	0	1.134	1.96	724	1.94	732
50	0	0	0	1.134	2.07	687	2.05	694
60	0	0	0	1.134	2.17	655	2.15	662
70	0	0	0	1.134	2.26	627	2.24	634
80	0	0	0	1.134	2.36	602	2.33	608
90	0	0	0	1.134	2.45	580	2.42	586
100	0	0	0	1.134	2.51	565	2.51	566
110	0	0	0	1.134	2.58	551	2.58	551
120	0	0	0	1.134	2.63	541	2.63	541
130	0	0	0	1.134	2.67	532	2.67	532
167	0	0	0	1.134	2.84	501	2.84	501
212	0	0	0	1.134	3.03	469	3.03	469

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	7.32	1500	7.32	1500*
0	0	0	0	1.134	6.98	816	6.96	818
30	0	0	0	1.134	7.35	775	7.33	778
40	0	0	0	1.134	7.47	763	7.45	765
50	0	0	0	1.134	7.59	752	7.56	754
60	0	0	0	1.134	7.7	740	7.68	743
70	0	0	0	1.134	7.82	730	7.79	732
80	0	0	0	1.134	7.93	720	7.9	722
90	0	0	0	1.134	8.04	710	8.01	712
100	0	0	0	1.134	8.15	701	8.12	703
110	0	0	0	1.134	8.25	692	8.23	694
120	0	0	0	1.134	8.33	685	8.33	685
130	0	0	0	1.134	8.4	680	8.4	680
167	0	0	0	1.134	8.63	662	8.63	662
212	0	0	0	1.134	8.89	643	8.89	643

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.251

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	2.186	16.59	1500	16.59	1500*
0	0	0	0	1.134	16.25	794	16.23	795
30	0	0	0	1.134	16.62	777	16.6	778
40	0	0	0	1.134	16.74	772	16.72	773
50	0	0	0	1.134	16.86	766	16.84	767
60	0	0	0	1.134	16.98	761	16.95	762
70	0	0	0	1.134	17.1	756	17.07	757
80	0	0	0	1.134	17.21	751	17.19	752
90	0	0	0	1.134	17.33	746	17.3	747
100	0	0	0	1.134	17.44	741	17.42	742
110	0	0	0	1.134	17.56	737	17.53	738
120	0	0	0	1.134	17.64	733	17.64	733
130	0	0	0	1.134	17.74	729	17.74	729
167	0	0	0	1.134	17.99	719	17.99	719
212	0	0	0	1.134	18.29	708	18.29	708

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	2.186	29.79	1500	29.79	1500*
0	0	0	0	1.134	29.45	787	29.43	787
30	0	0	0	1.134	29.82	778	29.8	778
40	0	0	0	1.134	29.94	775	29.92	775
50	0	0	0	1.134	30.06	772	30.04	772
60	0	0	0	1.134	30.18	769	30.15	769
70	0	0	0	1.134	30.3	766	30.27	766
80	0	0	0	1.134	30.42	763	30.39	764
90	0	0	0	1.134	30.53	760	30.51	761
100	0	0	0	1.134	30.65	757	30.62	758
110	0	0	0	1.134	30.77	755	30.74	755
120	0	0	0	1.134	30.87	752	30.85	753
130	0	0	0	1.134	30.97	750	30.97	750
167	0	0	0	1.134	31.23	744	31.23	744
212	0	0	0	1.134	31.54	737	31.54	737

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	2.186	47.16	1500	47.16	1500*
0	0	0	0	1.134	46.82	783	46.8	784
30	0	0	0	1.134	47.19	778	47.17	778
40	0	0	0	1.134	47.31	776	47.29	776
50	0	0	0	1.134	47.43	774	47.41	774
60	0	0	0	1.134	47.55	772	47.53	773
70	0	0	0	1.134	47.67	771	47.64	771
80	0	0	0	1.134	47.79	769	47.76	769
90	0	0	0	1.134	47.91	767	47.88	767
100	0	0	0	1.134	48.03	765	48	766
110	0	0	0	1.134	48.14	763	48.11	764
120	0	0	0	1.134	48.25	762	48.23	762
130	0	0	0	1.134	48.35	760	48.35	760
167	0	0	0	1.134	48.62	757	48.62	757
212	0	0	0	1.134	48.94	752	48.94	752

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-5
100.00	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5	2-6	2-7
125.00	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-9	3-11	4-0
150.00	3-10	4-1	4-4	4-7	4-10	5-1	5-3	5-6	5-8	5-10
175.00	5-3	5-7	5-11	6-3	6-7	6-11	7-2	7-5	7-8	7-11
200.00	6-10	7-4	7-9	8-2	8-7	9-0	9-4	9-9	10-1	10-4

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-0	1-0	1-1	1-2	1-3	1-3	1-4	1-5	1-5	1-5
100.00	1-9	1-10	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
125.00	2-9	2-11	3-1	3-3	3-5	3-6	3-8	3-10	3-11	4-0
150.00	3-11	4-2	4-5	4-8	4-11	5-1	5-4	5-6	5-8	5-10
175.00	5-4	5-8	6-0	6-4	6-8	6-11	7-3	7-6	7-9	7-11
200.00	6-11	7-5	7-10	8-3	8-8	9-1	9-5	9-10	10-1	10-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.254

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0	2-1
125.00	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-2	3-2	3-3
150.00	4-1	4-1	4-2	4-3	4-4	4-5	4-5	4-6	4-7	4-7
175.00	5-6	5-7	5-8	5-9	5-11	6-0	6-1	6-2	6-3	6-4
200.00	7-3	7-4	7-5	7-7	7-8	7-9	7-11	8-0	8-1	8-3
225.00	9-2	9-3	9-5	9-7	9-9	9-10	10-0	10-2	10-3	10-5
250.00	11-3	11-6	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0	2-1
125.00	2-10	2-10	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3
150.00	4-1	4-2	4-2	4-3	4-4	4-5	4-5	4-6	4-7	4-8
175.00	5-6	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4
200.00	7-3	7-4	7-6	7-7	7-8	7-10	7-11	8-0	8-2	8-3
225.00	9-2	9-4	9-6	9-7	9-9	9-11	10-0	10-2	10-4	10-5
250.00	11-4	11-6	11-8	11-10	12-1	12-3	12-5	12-7	12-9	12-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.255

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-1	4-2	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-4
175.00	5-7	5-8	5-8	5-9	5-9	5-10	5-10	5-10	5-11	5-11
200.00	7-4	7-4	7-5	7-6	7-6	7-7	7-7	7-8	7-9	7-9
225.00	9-3	9-4	9-5	9-5	9-6	9-7	9-8	9-9	9-9	9-10
250.00	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2
275.00	13-10	13-11	14-0	14-2	14-3	14-4	14-5	14-6	14-7	14-9
300.00	16-6	16-7	16-9	16-10	16-11	17-1	17-2	17-4	17-5	17-6
325.00	19-4	19-6	19-8	19-9	19-11	20-1	20-2	20-4	20-5	20-7
350.00	22-6	22-8	22-9	22-11	23-1	23-3	23-5	23-7	23-9	23-11
375.00	25-10	26-0	26-2	26-4	26-7	26-9	26-11	27-1	27-3	27-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-1	4-2	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-4
175.00	5-7	5-8	5-8	5-9	5-9	5-10	5-10	5-11	5-11	5-11
200.00	7-4	7-4	7-5	7-6	7-6	7-7	7-8	7-8	7-9	7-9
225.00	9-3	9-4	9-5	9-6	9-6	9-7	9-8	9-9	9-10	9-10
250.00	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2
275.00	13-10	14-0	14-1	14-2	14-3	14-4	14-5	14-7	14-8	14-9
300.00	16-6	16-7	16-9	16-10	17-0	17-1	17-3	17-4	17-5	17-7
325.00	19-5	19-6	19-8	19-10	19-11	20-1	20-3	20-4	20-6	20-7
350.00	22-6	22-8	22-10	23-0	23-2	23-4	23-6	23-7	23-9	23-11
375.00	25-10	26-0	26-3	26-5	26-7	26-9	27-0	27-2	27-4	27-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.256

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-5	7-5	7-5	7-6	7-6	7-6	7-7	7-7	7-7	7-8
225.00	9-4	9-5	9-5	9-5	9-6	9-6	9-7	9-7	9-8	9-8
250.00	11-7	11-7	11-8	11-8	11-9	11-9	11-10	11-10	11-11	11-11
275.00	14-0	14-0	14-1	14-2	14-2	14-3	14-4	14-4	14-5	14-6
300.00	16-8	16-8	16-9	16-10	16-11	17-0	17-0	17-1	17-2	17-3
325.00	19-7	19-7	19-8	19-9	19-10	19-11	20-0	20-1	20-2	20-3
350.00	22-8	22-9	22-10	22-11	23-1	23-2	23-3	23-4	23-5	23-6
375.00	26-1	26-2	26-3	26-4	26-6	26-7	26-8	26-9	26-11	27-0
400.00	29-8	29-10	29-11	30-0	30-2	30-3	30-5	30-6	30-7	30-9
425.00	33-6	33-8	33-10	33-11	34-1	34-2	34-4	34-6	34-7	34-9
450.00	37-8	37-9	37-11	38-1	38-3	38-5	38-6	38-8	38-10	39-0
475.00	42-0	42-2	42-4	42-6	42-8	42-10	43-0	43-2	43-4	43-6
500.00	46-7	46-9	46-11	47-2	47-4	47-6	47-8	47-10	48-1	48-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-5	7-5	7-5	7-6	7-6	7-6	7-7	7-7	7-7	7-8
225.00	9-4	9-5	9-5	9-6	9-6	9-6	9-7	9-7	9-8	9-8
250.00	11-7	11-7	11-8	11-8	11-9	11-9	11-10	11-10	11-11	12-0
275.00	14-0	14-0	14-1	14-2	14-2	14-3	14-4	14-4	14-5	14-6
300.00	16-8	16-9	16-9	16-10	16-11	17-0	17-1	17-1	17-2	17-3
325.00	19-7	19-8	19-9	19-10	19-10	19-11	20-0	20-1	20-2	20-3
350.00	22-8	22-9	22-11	23-0	23-1	23-2	23-3	23-4	23-5	23-6
375.00	26-1	26-2	26-3	26-5	26-6	26-7	26-8	26-10	26-11	27-0
400.00	29-8	29-10	29-11	30-1	30-2	30-4	30-5	30-6	30-8	30-9
425.00	33-7	33-8	33-10	34-0	34-1	34-3	34-4	34-6	34-8	34-9
450.00	37-8	37-10	38-0	38-1	38-3	38-5	38-7	38-9	38-10	39-0
475.00	42-0	42-2	42-4	42-6	42-8	42-10	43-0	43-2	43-4	43-6
500.00	46-7	46-9	47-0	47-2	47-4	47-6	47-9	47-11	48-1	48-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.257

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-8	11-8	11-9	11-9	11-9	11-10	11-10	11-10	11-11	11-11
275.00	14-1	14-2	14-2	14-3	14-3	14-4	14-4	14-4	14-5	14-5
300.00	16-10	16-10	16-11	16-11	17-0	17-0	17-1	17-1	17-2	17-2
325.00	19-9	19-10	19-10	19-11	19-11	20-0	20-0	20-1	20-2	20-2
350.00	22-11	23-0	23-0	23-1	23-2	23-2	23-3	23-4	23-5	23-5
375.00	26-4	26-5	26-6	26-6	26-7	26-8	26-9	26-10	26-10	26-11
400.00	30-0	30-1	30-2	30-3	30-3	30-4	30-5	30-6	30-7	30-8
425.00	33-11	34-0	34-1	34-2	34-3	34-4	34-5	34-6	34-7	34-8
450.00	38-0	38-1	38-3	38-4	38-5	38-6	38-7	38-8	38-9	38-11
475.00	42-5	42-6	42-8	42-9	42-10	42-11	43-1	43-2	43-3	43-4
500.00	47-1	47-2	47-3	47-5	47-6	47-8	47-9	47-11	48-0	48-1
525.00	51-11	52-1	52-2	52-4	52-6	52-7	52-9	52-10	53-0	53-1
550.00	57-1	57-3	57-4	57-6	57-8	57-10	57-11	58-1	58-3	58-4
575.00	62-5	62-7	62-9	62-11	63-1	63-3	63-5	63-7	63-9	63-11
600.00	68-1	68-3	68-5	68-7	68-9	69-0	69-2	69-4	69-6	69-8
625.00	74-0	74-2	74-4	74-7	74-9	74-11	75-2	75-4	75-6	75-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-8	11-8	11-9	11-9	11-9	11-10	11-10	11-10	11-11	11-11
275.00	14-1	14-2	14-2	14-3	14-3	14-4	14-4	14-4	14-5	14-5
300.00	16-10	16-10	16-11	16-11	17-0	17-0	17-1	17-1	17-2	17-2
325.00	19-9	19-10	19-10	19-11	19-11	20-0	20-1	20-1	20-2	20-2
350.00	22-11	23-0	23-1	23-1	23-2	23-3	23-3	23-4	23-5	23-5
375.00	26-4	26-5	26-6	26-7	26-7	26-8	26-9	26-10	26-10	26-11
400.00	30-0	30-1	30-2	30-3	30-4	30-5	30-5	30-6	30-7	30-8
425.00	33-11	34-0	34-1	34-2	34-3	34-4	34-5	34-6	34-7	34-8
450.00	38-1	38-2	38-3	38-4	38-5	38-6	38-7	38-9	38-10	38-11
475.00	42-5	42-6	42-8	42-9	42-10	43-0	43-1	43-2	43-4	43-5
500.00	47-1	47-2	47-4	47-5	47-7	47-8	47-9	47-11	48-0	48-2
525.00	51-11	52-1	52-3	52-4	52-6	52-7	52-9	52-11	53-0	53-2
550.00	57-1	57-3	57-5	57-6	57-8	57-10	58-0	58-1	58-3	58-5
575.00	62-6	62-8	62-10	63-0	63-1	63-3	63-5	63-7	63-9	63-11
600.00	68-1	68-4	68-6	68-8	68-10	69-0	69-2	69-4	69-6	69-8
625.00	74-0	74-3	74-5	74-7	74-9	75-0	75-2	75-4	75-7	75-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.258

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	2.186	1.37	2000	1.37	2000*
0	0	0	0	1.134	0.89	1589	0.88	1615
30	0	0	0	1.134	1.37	1039	1.33	1066
40	0	0	0	1.134	1.5	943	1.47	967
50	0	0	0	1.134	1.63	869	1.6	889
60	0	0	0	1.134	1.76	808	1.72	827
70	0	0	0	1.134	1.87	759	1.83	775
80	0	0	0	1.134	1.98	717	1.94	731
90	0	0	0	1.134	2.09	681	2.05	694
100	0	0	0	1.134	2.19	650	2.15	662
110	0	0	0	1.134	2.25	632	2.24	633
120	0	0	0	1.134	2.31	614	2.31	614
130	0	0	0	1.134	2.36	601	2.36	601
167	0	0	0	1.134	2.54	559	2.54	559
212	0	0	0	1.134	2.75	517	2.75	517

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	2.186	5.48	2000	5.48	2000*
0	0	0	0	1.134	4.99	1139	4.95	1147
30	0	0	0	1.134	5.48	1038	5.44	1045
40	0	0	0	1.134	5.63	1010	5.59	1017
50	0	0	0	1.134	5.78	984	5.74	991
60	0	0	0	1.134	5.93	959	5.89	966
70	0	0	0	1.134	6.08	937	6.03	943
80	0	0	0	1.134	6.22	916	6.17	922
90	0	0	0	1.134	6.35	896	6.31	902
100	0	0	0	1.134	6.49	877	6.44	884
110	0	0	0	1.134	6.62	860	6.57	866
120	0	0	0	1.134	6.75	844	6.7	850
130	0	0	0	1.134	6.85	832	6.83	834
167	0	0	0	1.134	7.14	798	7.14	798
212	0	0	0	1.134	7.46	765	7.46	765

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.259

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	12.38	2000	12.38	2000*
0	0	0	0	1.134	11.89	1079	11.85	1083
30	0	0	0	1.134	12.38	1038	12.34	1041
40	0	0	0	1.134	12.54	1025	12.49	1028
50	0	0	0	1.134	12.69	1012	12.65	1016
60	0	0	0	1.134	12.85	1000	12.8	1004
70	0	0	0	1.134	13	989	12.95	992
80	0	0	0	1.134	13.15	977	13.1	981
90	0	0	0	1.134	13.3	967	13.25	970
100	0	0	0	1.134	13.45	956	13.4	960
110	0	0	0	1.134	13.6	946	13.54	950
120	0	0	0	1.134	13.74	936	13.69	940
130	0	0	0	1.134	13.88	927	13.83	930
167	0	0	0	1.134	14.25	903	14.25	903
212	0	0	0	1.134	14.62	881	14.62	881

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	22.13	1999	22.12	2000*
0	0	0	0	1.134	21.64	1060	21.6	1062
30	0	0	0	1.134	22.13	1037	22.08	1040
40	0	0	0	1.134	22.29	1030	22.24	1032
50	0	0	0	1.134	22.45	1023	22.4	1025
60	0	0	0	1.134	22.61	1016	22.55	1018
70	0	0	0	1.134	22.76	1009	22.71	1012
80	0	0	0	1.134	22.92	1003	22.86	1005
90	0	0	0	1.134	23.07	996	23.02	998
100	0	0	0	1.134	23.22	990	23.17	992
110	0	0	0	1.134	23.38	983	23.32	986
120	0	0	0	1.134	23.53	977	23.47	980
130	0	0	0	1.134	23.68	971	23.62	974
167	0	0	0	1.134	24.1	955	24.1	955
212	0	0	0	1.134	24.5	940	24.5	940

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.260

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	2.186	34.82	1999	34.81	2000*
0	0	0	0	1.134	34.34	1052	34.29	1053
30	0	0	0	1.134	34.82	1037	34.77	1039
40	0	0	0	1.134	34.98	1033	34.93	1034
50	0	0	0	1.134	35.14	1028	35.09	1030
60	0	0	0	1.134	35.3	1024	35.25	1025
70	0	0	0	1.134	35.46	1020	35.4	1021
80	0	0	0	1.134	35.62	1015	35.56	1017
90	0	0	0	1.134	35.77	1011	35.72	1013
100	0	0	0	1.134	35.93	1007	35.87	1008
110	0	0	0	1.134	36.08	1003	36.02	1004
120	0	0	0	1.134	36.24	998	36.18	1000
130	0	0	0	1.134	36.39	994	36.33	996
167	0	0	0	1.134	36.85	983	36.85	983
212	0	0	0	1.134	37.26	972	37.26	972

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3
100.00	1-2	1-4	1-6	1-7	1-9	1-10	1-11	2-1	2-2	2-3
125.00	1-10	2-1	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6
150.00	2-8	3-0	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-1
175.00	3-8	4-1	4-6	4-11	5-3	5-7	5-11	6-3	6-7	6-11
200.00	4-9	5-4	5-10	6-5	6-11	7-4	7-9	8-2	8-7	9-0

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-3
100.00	1-3	1-4	1-6	1-8	1-9	1-10	2-0	2-1	2-2	2-3
125.00	1-11	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-5	3-6
150.00	2-9	3-1	3-5	3-8	3-11	4-3	4-6	4-8	4-11	5-1
175.00	3-9	4-2	4-7	5-0	5-5	5-9	6-1	6-5	6-8	6-11
200.00	4-10	5-6	6-0	6-6	7-0	7-6	7-11	8-4	8-9	9-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.262

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-8
125.00	2-1	2-1	2-2	2-3	2-4	2-4	2-5	2-6	2-6	2-7
150.00	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-7	3-8
175.00	4-1	4-2	4-3	4-5	4-6	4-7	4-9	4-10	4-11	5-0
200.00	5-3	5-5	5-7	5-9	5-11	6-0	6-2	6-4	6-5	6-7
225.00	6-8	6-11	7-1	7-3	7-5	7-8	7-10	8-0	8-2	8-4
250.00	8-3	8-6	8-9	9-0	9-2	9-5	9-8	9-10	10-1	10-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-7	1-8
125.00	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-6	2-6	2-7
150.00	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
175.00	4-1	4-2	4-4	4-5	4-6	4-8	4-9	4-10	5-0	5-1
200.00	5-4	5-6	5-8	5-9	5-11	6-1	6-3	6-4	6-6	6-7
225.00	6-9	6-11	7-2	7-4	7-6	7-8	7-10	8-1	8-3	8-5
250.00	8-4	8-7	8-10	9-1	9-3	9-6	9-9	9-11	10-2	10-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.263

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5
175.00	4-2	4-2	4-3	4-4	4-4	4-5	4-5	4-6	4-7	4-7
200.00	5-5	5-6	5-7	5-7	5-8	5-9	5-10	5-11	5-11	6-0
225.00	6-10	6-11	7-0	7-1	7-2	7-3	7-4	7-5	7-6	7-7
250.00	8-5	8-7	8-8	8-9	8-11	9-0	9-1	9-2	9-4	9-5
275.00	10-3	10-4	10-6	10-7	10-9	10-11	11-0	11-2	11-3	11-5
300.00	12-2	12-4	12-6	12-8	12-10	12-11	13-1	13-3	13-5	13-7
325.00	14-4	14-6	14-8	14-10	15-0	15-3	15-5	15-7	15-9	15-11
350.00	16-7	16-10	17-0	17-3	17-5	17-8	17-10	18-1	18-3	18-5
375.00	19-1	19-4	19-7	19-9	20-0	20-3	20-6	20-9	21-0	21-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-1	3-1	3-2	3-2	3-2	3-3	3-3	3-4	3-4	3-5
175.00	4-2	4-2	4-3	4-4	4-4	4-5	4-6	4-6	4-7	4-7
200.00	5-5	5-6	5-7	5-8	5-8	5-9	5-10	5-11	6-0	6-0
225.00	6-10	6-11	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8
250.00	8-6	8-7	8-8	8-10	8-11	9-0	9-2	9-3	9-4	9-5
275.00	10-3	10-5	10-6	10-8	10-10	10-11	11-1	11-2	11-4	11-5
300.00	12-3	12-5	12-6	12-8	12-10	13-0	13-2	13-4	13-5	13-7
325.00	14-4	14-6	14-9	14-11	15-1	15-3	15-5	15-7	15-9	16-0
350.00	16-8	16-10	17-1	17-4	17-6	17-9	17-11	18-1	18-4	18-6
375.00	19-1	19-4	19-7	19-10	20-1	20-4	20-7	20-10	21-1	21-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.264

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-6	5-6	5-7	5-7	5-7	5-8	5-8	5-9	5-9	5-10
225.00	6-11	7-0	7-0	7-1	7-1	7-2	7-3	7-3	7-4	7-4
250.00	8-7	8-7	8-8	8-9	8-9	8-10	8-11	9-0	9-0	9-1
275.00	10-4	10-5	10-6	10-7	10-8	10-9	10-9	10-10	10-11	11-0
300.00	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	13-0	13-1
325.00	14-5	14-7	14-8	14-9	14-10	15-0	15-1	15-2	15-3	15-4
350.00	16-9	16-11	17-0	17-2	17-3	17-4	17-6	17-7	17-9	17-10
375.00	19-3	19-5	19-6	19-8	19-10	19-11	20-1	20-3	20-4	20-6
400.00	21-11	22-1	22-3	22-5	22-7	22-9	22-10	23-0	23-2	23-4
425.00	24-9	24-11	25-1	25-4	25-6	25-8	25-10	26-0	26-2	26-4
450.00	27-9	28-0	28-2	28-5	28-7	28-9	29-0	29-2	29-4	29-7
475.00	31-0	31-2	31-5	31-8	31-10	32-1	32-4	32-6	32-9	32-11
500.00	34-4	34-7	34-10	35-1	35-4	35-7	35-10	36-1	36-3	36-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-6	5-6	5-7	5-7	5-8	5-8	5-9	5-9	5-9	5-10
225.00	6-11	7-0	7-0	7-1	7-2	7-2	7-3	7-3	7-4	7-4
250.00	8-7	8-7	8-8	8-9	8-10	8-10	8-11	9-0	9-1	9-1
275.00	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-11	10-11	11-0
300.00	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	13-0	13-1
325.00	14-6	14-7	14-8	14-10	14-11	15-0	15-1	15-2	15-4	15-5
350.00	16-10	16-11	17-1	17-2	17-3	17-5	17-6	17-8	17-9	17-11
375.00	19-4	19-5	19-7	19-9	19-10	20-0	20-2	20-3	20-5	20-6
400.00	22-0	22-2	22-3	22-5	22-7	22-9	22-11	23-1	23-3	23-5
425.00	24-10	25-0	25-2	25-4	25-6	25-9	25-11	26-1	26-3	26-5
450.00	27-10	28-0	28-3	28-5	28-8	28-10	29-0	29-3	29-5	29-7
475.00	31-0	31-3	31-6	31-9	31-11	32-2	32-4	32-7	32-10	33-0
500.00	34-5	34-8	34-11	35-2	35-5	35-8	35-11	36-2	36-5	36-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.265

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-7	8-8	8-8	8-9	8-9	8-10	8-10	8-11	8-11	9-0
275.00	10-5	10-6	10-6	10-7	10-7	10-8	10-8	10-9	10-10	10-10
300.00	12-5	12-6	12-6	12-7	12-8	12-8	12-9	12-10	12-10	12-11
325.00	14-7	14-8	14-8	14-9	14-10	14-11	15-0	15-0	15-1	15-2
350.00	16-11	17-0	17-1	17-2	17-3	17-3	17-4	17-5	17-6	17-7
375.00	19-5	19-6	19-7	19-8	19-9	19-10	19-11	20-0	20-1	20-2
400.00	22-1	22-2	22-4	22-5	22-6	22-7	22-8	22-10	22-11	23-0
425.00	25-0	25-1	25-2	25-4	25-5	25-6	25-8	25-9	25-10	26-0
450.00	28-0	28-2	28-3	28-5	28-6	28-8	28-9	28-11	29-0	29-2
475.00	31-3	31-4	31-6	31-8	31-9	31-11	32-1	32-3	32-4	32-6
500.00	34-7	34-9	34-11	35-1	35-3	35-5	35-7	35-9	35-10	36-0
525.00	38-2	38-4	38-6	38-9	38-11	39-1	39-3	39-5	39-7	39-9
550.00	41-11	42-2	42-4	42-6	42-8	42-11	43-1	43-3	43-6	43-8
575.00	45-10	46-1	46-4	46-6	46-9	46-11	47-2	47-4	47-6	47-9
600.00	50-0	50-3	50-5	50-8	50-11	51-2	51-4	51-7	51-10	52-0
625.00	54-3	54-6	54-9	55-0	55-3	55-6	55-9	56-0	56-3	56-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-7	8-8	8-8	8-9	8-9	8-10	8-10	8-11	8-11	9-0
275.00	10-5	10-6	10-6	10-7	10-8	10-8	10-9	10-9	10-10	10-10
300.00	12-5	12-6	12-7	12-7	12-8	12-9	12-9	12-10	12-11	12-11
325.00	14-7	14-8	14-9	14-10	14-10	14-11	15-0	15-1	15-1	15-2
350.00	16-11	17-0	17-1	17-2	17-3	17-4	17-5	17-6	17-7	17-7
375.00	19-5	19-6	19-7	19-9	19-10	19-11	20-0	20-1	20-2	20-3
400.00	22-2	22-3	22-4	22-5	22-6	22-8	22-9	22-10	22-11	23-0
425.00	25-0	25-1	25-3	25-4	25-6	25-7	25-8	25-10	25-11	26-0
450.00	28-1	28-2	28-4	28-5	28-7	28-8	28-10	28-11	29-1	29-2
475.00	31-3	31-5	31-7	31-8	31-10	32-0	32-1	32-3	32-5	32-7
500.00	34-8	34-10	35-0	35-2	35-4	35-6	35-7	35-9	35-11	36-1
525.00	38-3	38-5	38-7	38-9	38-11	39-1	39-4	39-6	39-8	39-10
550.00	42-0	42-2	42-5	42-7	42-9	43-0	43-2	43-4	43-6	43-9
575.00	45-11	46-2	46-4	46-7	46-9	47-0	47-2	47-5	47-7	47-10
600.00	50-1	50-3	50-6	50-9	51-0	51-3	51-5	51-8	51-11	52-1
625.00	54-4	54-7	54-10	55-1	55-4	55-7	55-10	56-1	56-4	56-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.266

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	1.09	2500	1.09	2500*
0	0	0	0	1.134	0.57	2497	0.57	2497
30	0	0	0	1.134	1.05	1350	1	1415
40	0	0	0	1.134	1.21	1173	1.16	1228
50	0	0	0	1.134	1.36	1044	1.3	1090
60	0	0	0	1.134	1.5	948	1.44	985
70	0	0	0	1.134	1.63	872	1.57	904
80	0	0	0	1.134	1.75	811	1.69	838
90	0	0	0	1.134	1.87	761	1.81	785
100	0	0	0	1.134	1.97	719	1.92	739
110	0	0	0	1.134	2.06	689	2.03	701
120	0	0	0	1.134	2.13	668	2.13	668
130	0	0	0	1.134	2.18	652	2.18	652
167	0	0	0	1.134	2.37	600	2.37	600
212	0	0	0	1.134	2.59	549	2.59	549

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	4.41	2483	4.38	2500*
0	0	0	0	1.134	3.76	1511	3.67	1547
30	0	0	0	1.134	4.36	1302	4.27	1331
40	0	0	0	1.134	4.55	1249	4.45	1275
50	0	0	0	1.134	4.73	1201	4.64	1226
60	0	0	0	1.134	4.91	1159	4.81	1181
70	0	0	0	1.134	5.08	1120	4.98	1141
80	0	0	0	1.134	5.24	1085	5.14	1105
90	0	0	0	1.134	5.4	1053	5.31	1072
100	0	0	0	1.134	5.56	1023	5.46	1041
110	0	0	0	1.134	5.71	996	5.61	1013
120	0	0	0	1.134	5.86	971	5.76	987
130	0	0	0	1.134	6	948	5.91	963
167	0	0	0	1.134	6.33	899	6.33	899
212	0	0	0	1.134	6.67	854	6.67	854

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.267

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	9.93	2486	9.88	2500*
0	0	0	0	1.134	9.28	1380	9.16	1398
30	0	0	0	1.134	9.88	1296	9.76	1312
40	0	0	0	1.134	10.08	1272	9.96	1287
50	0	0	0	1.134	10.27	1248	10.15	1263
60	0	0	0	1.134	10.46	1226	10.33	1240
70	0	0	0	1.134	10.64	1205	10.52	1219
80	0	0	0	1.134	10.82	1185	10.7	1198
90	0	0	0	1.134	11	1166	10.88	1179
100	0	0	0	1.134	11.18	1148	11.05	1160
110	0	0	0	1.134	11.35	1130	11.23	1143
120	0	0	0	1.134	11.52	1114	11.4	1126
130	0	0	0	1.134	11.69	1098	11.57	1110
167	0	0	0	1.134	12.18	1055	12.17	1055
212	0	0	0	1.134	12.59	1020	12.59	1020

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	17.69	2491	17.62	2500*
0	0	0	0	1.134	17.03	1341	16.9	1351
30	0	0	0	1.134	17.64	1296	17.5	1306
40	0	0	0	1.134	17.84	1282	17.7	1291
50	0	0	0	1.134	18.03	1268	17.9	1278
60	0	0	0	1.134	18.22	1255	18.09	1264
70	0	0	0	1.134	18.42	1242	18.28	1251
80	0	0	0	1.134	18.6	1230	18.47	1239
90	0	0	0	1.134	18.79	1218	18.65	1226
100	0	0	0	1.134	18.98	1206	18.84	1215
110	0	0	0	1.134	19.16	1194	19.02	1203
120	0	0	0	1.134	19.35	1183	19.2	1192
130	0	0	0	1.134	19.53	1173	19.38	1181
167	0	0	0	1.134	20.11	1139	20.04	1143
212	0	0	0	1.134	20.57	1114	20.57	1114

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.268

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	2.186	27.73	2494	27.66	2500*
0	0	0	0	1.134	27.07	1324	26.94	1331
30	0	0	0	1.134	27.68	1296	27.54	1302
40	0	0	0	1.134	27.88	1287	27.74	1293
50	0	0	0	1.134	28.07	1278	27.93	1285
60	0	0	0	1.134	28.27	1270	28.13	1276
70	0	0	0	1.134	28.46	1261	28.32	1267
80	0	0	0	1.134	28.66	1253	28.51	1259
90	0	0	0	1.134	28.85	1245	28.7	1251
100	0	0	0	1.134	29.04	1237	28.89	1243
110	0	0	0	1.134	29.23	1229	29.08	1235
120	0	0	0	1.134	29.42	1221	29.27	1227
130	0	0	0	1.134	29.61	1214	29.46	1220
167	0	0	0	1.134	30.26	1188	30.14	1193
212	0	0	0	1.134	30.75	1170	30.75	1170

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2
100.00	0-10	1-0	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-0
125.00	1-4	1-7	1-10	2-0	2-3	2-5	2-8	2-10	3-0	3-2
150.00	1-11	2-3	2-7	2-11	3-3	3-6	3-10	4-1	4-4	4-7
175.00	2-7	3-1	3-6	4-0	4-5	4-10	5-2	5-7	5-11	6-3
200.00	3-5	4-0	4-7	5-3	5-9	6-3	6-9	7-3	7-8	8-1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2
100.00	0-11	1-1	1-3	1-4	1-6	1-8	1-9	1-10	2-0	2-1
125.00	1-5	1-8	1-11	2-1	2-4	2-7	2-9	2-11	3-1	3-3
150.00	2-0	2-4	2-9	3-1	3-4	3-8	3-11	4-2	4-5	4-8
175.00	2-8	3-3	3-8	4-2	4-7	5-0	5-4	5-9	6-1	6-4
200.00	3-6	4-2	4-10	5-5	6-0	6-6	7-0	7-6	7-11	8-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.270

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-5
125.00	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-1	2-2	2-2
150.00	2-4	2-5	2-6	2-7	2-8	2-10	2-11	3-0	3-1	3-2
175.00	3-1	3-3	3-5	3-7	3-8	3-10	3-11	4-1	4-2	4-4
200.00	4-1	4-3	4-5	4-8	4-10	5-0	5-2	5-4	5-6	5-7
225.00	5-2	5-5	5-8	5-10	6-1	6-4	6-6	6-9	6-11	7-1
250.00	6-4	6-8	7-0	7-3	7-6	7-9	8-1	8-4	8-6	8-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5
125.00	1-8	1-8	1-9	1-10	1-11	2-0	2-1	2-1	2-2	2-3
150.00	2-4	2-5	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-3
175.00	3-2	3-4	3-6	3-7	3-9	3-11	4-0	4-2	4-3	4-4
200.00	4-2	4-4	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9
225.00	5-3	5-6	5-9	6-0	6-3	6-5	6-8	6-10	7-0	7-3
250.00	6-6	6-10	7-1	7-5	7-8	7-11	8-2	8-5	8-8	8-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 271 OF 362

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.271

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-5	2-5	2-6	2-6	2-7	2-8	2-8	2-9	2-9	2-10
175.00	3-3	3-4	3-5	3-5	3-6	3-7	3-8	3-8	3-9	3-10
200.00	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	5-0
225.00	5-5	5-6	5-7	5-8	5-10	5-11	6-0	6-1	6-3	6-4
250.00	6-8	6-9	6-11	7-1	7-2	7-4	7-5	7-7	7-8	7-10
275.00	8-0	8-2	8-4	8-6	8-8	8-10	9-0	9-2	9-3	9-5
300.00	9-7	9-9	9-11	10-2	10-4	10-6	10-8	10-11	11-1	11-3
325.00	11-3	11-6	11-8	11-11	12-2	12-4	12-7	12-9	13-0	13-2
350.00	13-0	13-4	13-7	13-10	14-1	14-4	14-7	14-10	15-1	15-4
375.00	14-11	15-3	15-7	15-10	16-2	16-5	16-9	17-0	17-3	17-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-10
175.00	3-4	3-4	3-5	3-6	3-7	3-7	3-8	3-9	3-10	3-10
200.00	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	5-0	5-0
225.00	5-5	5-7	5-8	5-9	5-11	6-0	6-1	6-2	6-3	6-5
250.00	6-9	6-10	7-0	7-2	7-3	7-5	7-6	7-8	7-9	7-11
275.00	8-2	8-4	8-6	8-8	8-9	8-11	9-1	9-3	9-5	9-6
300.00	9-8	9-11	10-1	10-3	10-5	10-8	10-10	11-0	11-2	11-4
325.00	11-4	11-7	11-10	12-1	12-3	12-6	12-8	12-11	13-1	13-4
350.00	13-2	13-6	13-9	14-0	14-3	14-6	14-9	15-0	15-3	15-6
375.00	15-2	15-5	15-9	16-1	16-4	16-8	16-11	17-3	17-6	17-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.272

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-4	4-4	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9
225.00	5-6	5-6	5-7	5-8	5-9	5-9	5-10	5-11	5-11	6-0
250.00	6-9	6-10	6-11	7-0	7-1	7-2	7-2	7-3	7-4	7-5
275.00	8-2	8-3	8-4	8-5	8-6	8-8	8-9	8-10	8-11	9-0
300.00	9-9	9-10	9-11	10-1	10-2	10-3	10-4	10-6	10-7	10-8
325.00	11-5	11-7	11-8	11-10	11-11	12-1	12-2	12-4	12-5	12-7
350.00	13-3	13-5	13-7	13-8	13-10	14-0	14-2	14-3	14-5	14-7
375.00	15-2	15-5	15-7	15-9	15-11	16-1	16-3	16-5	16-7	16-9
400.00	17-4	17-6	17-8	17-11	18-1	18-3	18-6	18-8	18-10	19-0
425.00	19-7	19-9	20-0	20-3	20-5	20-8	20-10	21-1	21-3	21-6
450.00	21-11	22-2	22-5	22-8	22-11	23-2	23-5	23-8	23-10	24-1
475.00	24-5	24-9	25-0	25-3	25-6	25-10	26-1	26-4	26-7	26-10
500.00	27-1	27-5	27-8	28-0	28-4	28-7	28-11	29-2	29-6	29-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-4	4-5	4-5	4-6	4-7	4-7	4-8	4-8	4-9	4-9
225.00	5-6	5-7	5-8	5-8	5-9	5-10	5-11	5-11	6-0	6-1
250.00	6-10	6-11	6-11	7-0	7-1	7-2	7-3	7-4	7-5	7-6
275.00	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-11	9-1
300.00	9-10	9-11	10-0	10-2	10-3	10-4	10-5	10-7	10-8	10-9
325.00	11-6	11-8	11-9	11-11	12-0	12-2	12-3	12-5	12-6	12-8
350.00	13-4	13-6	13-8	13-10	13-11	14-1	14-3	14-5	14-6	14-8
375.00	15-4	15-6	15-8	15-10	16-0	16-2	16-4	16-6	16-8	16-10
400.00	17-5	17-8	17-10	18-0	18-3	18-5	18-7	18-10	19-0	19-2
425.00	19-8	19-11	20-2	20-4	20-7	20-10	21-0	21-3	21-5	21-8
450.00	22-1	22-4	22-7	22-10	23-1	23-4	23-7	23-10	24-0	24-3
475.00	24-7	24-11	25-2	25-5	25-9	26-0	26-3	26-6	26-10	27-1
500.00	27-3	27-7	27-11	28-3	28-6	28-10	29-1	29-5	29-8	30-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.273

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-10	6-10	6-11	7-0	7-0	7-1	7-1	7-2	7-2	7-3
275.00	8-3	8-4	8-4	8-5	8-6	8-7	8-7	8-8	8-9	8-9
300.00	9-10	9-11	10-0	10-0	10-1	10-2	10-3	10-4	10-4	10-5
325.00	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3
350.00	13-4	13-6	13-7	13-8	13-9	13-10	13-11	14-0	14-2	14-3
375.00	15-4	15-6	15-7	15-8	15-10	15-11	16-0	16-1	16-3	16-4
400.00	17-6	17-7	17-9	17-10	18-0	18-1	18-3	18-4	18-6	18-7
425.00	19-9	19-10	20-0	20-2	20-4	20-5	20-7	20-9	20-10	21-0
450.00	22-2	22-3	22-5	22-7	22-9	22-11	23-1	23-3	23-5	23-6
475.00	24-8	24-10	25-0	25-2	25-4	25-7	25-9	25-11	26-1	26-3
500.00	27-4	27-6	27-9	27-11	28-2	28-4	28-6	28-8	28-11	29-1
525.00	30-2	30-4	30-7	30-10	31-0	31-3	31-5	31-8	31-10	32-1
550.00	33-1	33-4	33-7	33-10	34-1	34-4	34-6	34-9	35-0	35-3
575.00	36-2	36-6	36-9	37-0	37-3	37-6	37-9	38-0	38-3	38-6
600.00	39-5	39-9	40-0	40-4	40-7	40-10	41-2	41-5	41-8	42-0
625.00	42-10	43-2	43-5	43-9	44-1	44-4	44-8	45-0	45-3	45-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-10	6-11	6-11	7-0	7-1	7-1	7-2	7-2	7-3	7-3
275.00	8-3	8-4	8-5	8-6	8-6	8-7	8-8	8-8	8-9	8-10
300.00	9-10	9-11	10-0	10-1	10-2	10-3	10-3	10-4	10-5	10-6
325.00	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-4
350.00	13-5	13-6	13-8	13-9	13-10	13-11	14-0	14-1	14-2	14-3
375.00	15-5	15-6	15-8	15-9	15-10	16-0	16-1	16-2	16-4	16-5
400.00	17-7	17-8	17-10	17-11	18-1	18-2	18-4	18-5	18-7	18-8
425.00	19-10	20-0	20-1	20-3	20-5	20-6	20-8	20-10	20-11	21-1
450.00	22-3	22-5	22-7	22-9	22-11	23-0	23-2	23-4	23-6	23-8
475.00	24-9	25-0	25-2	25-4	25-6	25-8	25-10	26-0	26-2	26-4
500.00	27-6	27-8	27-11	28-1	28-3	28-6	28-8	28-10	29-1	29-3
525.00	30-4	30-6	30-9	31-0	31-2	31-5	31-7	31-10	32-0	32-3
550.00	33-3	33-6	33-9	34-0	34-3	34-6	34-8	34-11	35-2	35-5
575.00	36-5	36-8	36-11	37-2	37-5	37-8	37-11	38-3	38-6	38-9
600.00	39-8	39-11	40-3	40-6	40-9	41-1	41-4	41-8	41-11	42-2
625.00	43-0	43-4	43-8	44-0	44-3	44-7	44-11	45-2	45-6	45-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.274

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	0.91	3000	0.91	3000*
0	0	0	0	1.134	0.42	3364	0.42	3364
30	0	0	0	1.134	0.82	1721	0.77	1845
40	0	0	0	1.134	0.99	1429	0.92	1537
50	0	0	0	1.134	1.15	1229	1.08	1316
60	0	0	0	1.134	1.31	1085	1.23	1155
70	0	0	0	1.134	1.45	979	1.37	1035
80	0	0	0	1.134	1.58	897	1.5	943
90	0	0	0	1.134	1.71	831	1.63	870
100	0	0	0	1.134	1.82	778	1.75	811
110	0	0	0	1.134	1.93	735	1.86	761
120	0	0	0	1.134	1.99	714	1.97	720
130	0	0	0	1.134	2.05	693	2.05	693
167	0	0	0	1.134	2.24	633	2.24	633
212	0	0	0	1.134	2.47	575	2.47	575

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	3.72	2942	3.65	3000*
0	0	0	0	1.134	2.91	1950	2.76	2058
30	0	0	0	1.134	3.61	1571	3.45	1646
40	0	0	0	1.134	3.83	1483	3.66	1550
50	0	0	0	1.134	4.04	1407	3.87	1467
60	0	0	0	1.134	4.23	1341	4.07	1395
70	0	0	0	1.134	4.43	1284	4.26	1332
80	0	0	0	1.134	4.61	1232	4.45	1277
90	0	0	0	1.134	4.79	1186	4.63	1227
100	0	0	0	1.134	4.96	1145	4.8	1183
110	0	0	0	1.134	5.13	1108	4.97	1143
120	0	0	0	1.134	5.29	1074	5.14	1106
130	0	0	0	1.134	5.45	1043	5.3	1073
167	0	0	0	1.134	5.82	977	5.82	978
212	0	0	0	1.134	6.18	921	6.17	922

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.275

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	2.186	8.34	2958	8.22	3000*
0	0	0	0	1.134	7.51	1704	7.29	1754
30	0	0	0	1.134	8.23	1556	8.01	1597
40	0	0	0	1.134	8.45	1514	8.24	1553
50	0	0	0	1.134	8.68	1475	8.46	1513
60	0	0	0	1.134	8.89	1439	8.68	1475
70	0	0	0	1.134	9.11	1406	8.89	1439
80	0	0	0	1.134	9.32	1375	9.1	1407
90	0	0	0	1.134	9.52	1345	9.31	1376
100	0	0	0	1.134	9.72	1318	9.51	1347
110	0	0	0	1.134	9.92	1292	9.71	1320
120	0	0	0	1.134	10.11	1267	9.9	1294
130	0	0	0	1.134	10.3	1244	10.09	1270
167	0	0	0	1.134	10.89	1177	10.77	1190
212	0	0	0	1.134	11.34	1131	11.34	1132

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	2.186	14.79	2972	14.65	3000*
0	0	0	0	1.134	13.95	1634	13.71	1662
30	0	0	0	1.134	14.67	1554	14.43	1580
40	0	0	0	1.134	14.91	1530	14.67	1555
50	0	0	0	1.134	15.14	1507	14.9	1531
60	0	0	0	1.134	15.36	1485	15.12	1508
70	0	0	0	1.134	15.59	1464	15.35	1486
80	0	0	0	1.134	15.81	1444	15.57	1466
90	0	0	0	1.134	16.03	1424	15.79	1446
100	0	0	0	1.134	16.24	1405	16	1426
110	0	0	0	1.134	16.46	1388	16.22	1408
120	0	0	0	1.134	16.67	1370	16.43	1390
130	0	0	0	1.134	16.88	1354	16.63	1373
167	0	0	0	1.134	17.62	1297	17.38	1315
212	0	0	0	1.134	18.13	1261	18.13	1262

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.276

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	2.186	23.11	2980	22.96	3000*
0	0	0	0	1.134	22.27	1604	22.02	1622
30	0	0	0	1.134	22.99	1554	22.74	1571
40	0	0	0	1.134	23.23	1539	22.98	1555
50	0	0	0	1.134	23.46	1524	23.21	1540
60	0	0	0	1.134	23.7	1509	23.44	1525
70	0	0	0	1.134	23.93	1495	23.67	1511
80	0	0	0	1.134	24.15	1481	23.9	1496
90	0	0	0	1.134	24.38	1467	24.12	1483
100	0	0	0	1.134	24.6	1454	24.35	1469
110	0	0	0	1.134	24.83	1442	24.57	1456
120	0	0	0	1.134	25.05	1429	24.79	1444
130	0	0	0	1.134	25.26	1417	25	1431
167	0	0	0	1.134	26.06	1375	25.79	1389
212	0	0	0	1.134	26.67	1344	26.67	1344

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.277

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
100.00	0-8	0-9	0-11	1-1	1-3	1-4	1-6	1-8	1-9	1-10
125.00	1-0	1-2	1-5	1-8	1-11	2-2	2-4	2-7	2-9	2-11
150.00	1-5	1-9	2-1	2-5	2-9	3-1	3-5	3-8	3-11	4-2
175.00	1-11	2-4	2-10	3-4	3-9	4-2	4-7	5-0	5-4	5-9
200.00	2-6	3-1	3-8	4-4	4-11	5-6	6-0	6-6	7-0	7-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1
100.00	0-8	0-10	1-0	1-2	1-4	1-5	1-7	1-8	1-10	1-11
125.00	1-0	1-3	1-7	1-10	2-1	2-3	2-6	2-8	2-10	3-0
150.00	1-6	1-10	2-3	2-7	2-11	3-3	3-7	3-10	4-1	4-4
175.00	2-0	2-6	3-0	3-6	4-0	4-5	4-10	5-3	5-7	5-11
200.00	2-8	3-4	4-0	4-7	5-3	5-10	6-4	6-10	7-4	7-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.278

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-11
150.00	1-10	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-8	2-10
175.00	2-6	2-8	2-10	3-0	3-1	3-3	3-5	3-7	3-8	3-10
200.00	3-3	3-5	3-8	3-10	4-1	4-3	4-5	4-8	4-10	5-0
225.00	4-1	4-4	4-8	4-11	5-2	5-5	5-8	5-10	6-1	6-4
250.00	5-0	5-5	5-9	6-1	6-4	6-8	6-11	7-3	7-6	7-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0
150.00	1-11	2-0	2-2	2-3	2-5	2-6	2-7	2-8	2-9	2-11
175.00	2-7	2-9	2-11	3-1	3-3	3-5	3-6	3-8	3-10	3-11
200.00	3-5	3-7	3-10	4-0	4-3	4-5	4-7	4-9	5-0	5-2
225.00	4-3	4-7	4-10	5-1	5-4	5-7	5-10	6-1	6-3	6-6
250.00	5-4	5-8	6-0	6-4	6-7	6-11	7-2	7-6	7-9	8-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.279

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-5	2-5
175.00	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-3	3-4
200.00	3-5	3-7	3-8	3-9	3-10	3-11	4-1	4-2	4-3	4-4
225.00	4-4	4-6	4-8	4-9	4-11	5-0	5-1	5-3	5-4	5-5
250.00	5-5	5-7	5-9	5-10	6-0	6-2	6-4	6-6	6-7	6-9
275.00	6-6	6-9	6-11	7-1	7-4	7-6	7-8	7-10	8-0	8-2
300.00	7-9	8-0	8-3	8-6	8-8	8-11	9-1	9-4	9-6	9-9
325.00	9-2	9-5	9-8	9-11	10-2	10-5	10-8	10-11	11-2	11-5
350.00	10-7	10-11	11-3	11-6	11-10	12-1	12-5	12-8	12-11	13-3
375.00	12-2	12-6	12-11	13-3	13-7	13-11	14-3	14-7	14-10	15-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-5	2-5	2-6
175.00	2-9	2-10	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-4
200.00	3-7	3-8	3-9	3-10	3-11	4-1	4-2	4-3	4-4	4-5
225.00	4-6	4-7	4-9	4-11	5-0	5-1	5-3	5-4	5-6	5-7
250.00	5-7	5-9	5-10	6-0	6-2	6-4	6-6	6-7	6-9	6-11
275.00	6-9	6-11	7-1	7-3	7-6	7-8	7-10	8-0	8-2	8-4
300.00	8-0	8-3	8-5	8-8	8-11	9-1	9-4	9-6	9-9	9-11
325.00	9-5	9-8	9-11	10-2	10-5	10-8	10-11	11-2	11-5	11-8
350.00	10-11	11-2	11-6	11-10	12-1	12-5	12-8	13-0	13-3	13-6
375.00	12-6	12-10	13-3	13-7	13-11	14-3	14-7	14-11	15-2	15-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.280

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-7	3-7	3-8	3-9	3-9	3-10	3-11	3-11	4-0	4-1
225.00	4-6	4-7	4-8	4-8	4-9	4-10	4-11	5-0	5-1	5-1
250.00	5-6	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4
275.00	6-8	6-10	6-11	7-0	7-2	7-3	7-4	7-5	7-7	7-8
300.00	8-0	8-1	8-3	8-4	8-6	8-8	8-9	8-10	9-0	9-1
325.00	9-4	9-6	9-8	9-10	10-0	10-2	10-3	10-5	10-7	10-8
350.00	10-10	11-1	11-3	11-5	11-7	11-9	11-11	12-1	12-3	12-5
375.00	12-6	12-8	12-11	13-1	13-3	13-6	13-8	13-10	14-1	14-3
400.00	14-2	14-5	14-8	14-11	15-1	15-4	15-7	15-9	16-0	16-3
425.00	16-0	16-4	16-7	16-10	17-1	17-4	17-7	17-10	18-1	18-4
450.00	18-0	18-3	18-7	18-10	19-2	19-5	19-9	20-0	20-3	20-6
475.00	20-0	20-4	20-8	21-0	21-4	21-8	22-0	22-3	22-7	22-11
500.00	22-2	22-7	22-11	23-4	23-8	24-0	24-4	24-8	25-0	25-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-7	3-8	3-9	3-9	3-10	3-11	3-11	4-0	4-1	4-1
225.00	4-7	4-8	4-9	4-9	4-10	4-11	5-0	5-1	5-2	5-2
250.00	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5
275.00	6-10	6-11	7-0	7-2	7-3	7-4	7-6	7-7	7-8	7-9
300.00	8-1	8-3	8-5	8-6	8-8	8-9	8-11	9-0	9-2	9-3
325.00	9-6	9-8	9-10	10-0	10-2	10-3	10-5	10-7	10-9	10-10
350.00	11-1	11-3	11-5	11-7	11-9	11-11	12-1	12-3	12-5	12-7
375.00	12-8	12-11	13-1	13-4	13-6	13-8	13-11	14-1	14-3	14-6
400.00	14-5	14-8	14-11	15-2	15-4	15-7	15-10	16-0	16-3	16-5
425.00	16-4	16-7	16-10	17-1	17-4	17-7	17-10	18-1	18-4	18-7
450.00	18-3	18-7	18-11	19-2	19-5	19-9	20-0	20-4	20-7	20-10
475.00	20-4	20-8	21-0	21-4	21-8	22-0	22-4	22-7	22-11	23-3
500.00	22-7	22-11	23-4	23-8	24-0	24-5	24-9	25-1	25-5	25-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.281

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-7	5-8	5-9	5-9	5-10	5-11	6-0	6-0	6-1	6-2
275.00	6-10	6-10	6-11	7-0	7-1	7-2	7-3	7-3	7-4	7-5
300.00	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10
325.00	9-6	9-7	9-8	9-9	9-11	10-0	10-1	10-2	10-3	10-4
350.00	11-0	11-2	11-3	11-4	11-6	11-7	11-8	11-10	11-11	12-0
375.00	12-8	12-9	12-11	13-0	13-2	13-4	13-5	13-7	13-8	13-10
400.00	14-5	14-6	14-8	14-10	15-0	15-2	15-3	15-5	15-7	15-8
425.00	16-3	16-5	16-7	16-9	16-11	17-1	17-3	17-5	17-7	17-9
450.00	18-3	18-5	18-7	18-9	19-0	19-2	19-4	19-6	19-9	19-11
475.00	20-4	20-6	20-9	20-11	21-2	21-4	21-7	21-9	22-0	22-2
500.00	22-6	22-9	23-0	23-3	23-5	23-8	23-11	24-1	24-4	24-7
525.00	24-10	25-1	25-4	25-7	25-10	26-1	26-4	26-7	26-10	27-1
550.00	27-3	27-6	27-10	28-1	28-5	28-8	28-11	29-2	29-6	29-9
575.00	29-9	30-1	30-5	30-9	31-0	31-4	31-8	31-11	32-3	32-6
600.00	32-5	32-9	33-2	33-6	33-10	34-2	34-6	34-9	35-1	35-5
625.00	35-3	35-7	35-11	36-4	36-8	37-1	37-5	37-9	38-1	38-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-8	5-9	5-10	5-10	5-11	6-0	6-0	6-1	6-2	6-2
275.00	6-10	6-11	7-0	7-1	7-2	7-3	7-3	7-4	7-5	7-6
300.00	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-11
325.00	9-7	9-8	9-10	9-11	10-0	10-1	10-2	10-3	10-5	10-6
350.00	11-2	11-3	11-4	11-6	11-7	11-8	11-10	11-11	12-0	12-2
375.00	12-9	12-11	13-1	13-2	13-4	13-5	13-7	13-8	13-10	13-11
400.00	14-7	14-8	14-10	15-0	15-2	15-4	15-5	15-7	15-9	15-10
425.00	16-5	16-7	16-9	16-11	17-1	17-3	17-5	17-7	17-9	17-11
450.00	18-5	18-7	18-10	19-0	19-2	19-4	19-7	19-9	19-11	20-1
475.00	20-6	20-9	21-0	21-2	21-5	21-7	21-10	22-0	22-2	22-5
500.00	22-9	23-0	23-3	23-6	23-8	23-11	24-2	24-5	24-7	24-10
525.00	25-1	25-4	25-7	25-11	26-2	26-5	26-8	26-11	27-2	27-5
550.00	27-7	27-10	28-2	28-5	28-8	29-0	29-3	29-6	29-9	30-1
575.00	30-1	30-5	30-9	31-1	31-4	31-8	32-0	32-3	32-7	32-10
600.00	32-10	33-2	33-6	33-10	34-2	34-6	34-10	35-2	35-6	35-10
625.00	35-7	36-0	36-4	36-9	37-1	37-5	37-10	38-2	38-6	38-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.378	4.25	1000	4.25	1000*
20	0	0	0	1.134	4.05	352	4.05	352
30	0	0	0	1.134	4.11	347	4.1	348
40	0	0	0	1.134	4.16	343	4.16	343
50	0	0	0	1.134	4.22	339	4.21	339
60	0	0	0	1.134	4.27	335	4.26	335
70	0	0	0	1.134	4.32	331	4.31	331
80	0	0	0	1.134	4.35	328	4.35	328
90	0	0	0	1.134	4.38	326	4.38	326
100	0	0	0	1.134	4.41	324	4.41	324
110	0	0	0	1.134	4.44	321	4.44	321
120	0	0	0	1.134	4.47	319	4.47	319
130	0	0	0	1.134	4.5	317	4.5	317
167	0	0	0	1.134	4.61	310	4.61	310
212	0	0	0	1.134	4.74	302	4.74	302

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.378	17.4	1000	17.4	1000*
20	0	0	0	1.134	17.21	339	17.2	339
30	0	0	0	1.134	17.26	338	17.25	338
40	0	0	0	1.134	17.31	337	17.3	338
50	0	0	0	1.134	17.36	336	17.36	337
60	0	0	0	1.134	17.42	335	17.41	336
70	0	0	0	1.134	17.47	335	17.46	335
80	0	0	0	1.134	17.5	334	17.5	334
90	0	0	0	1.134	17.54	333	17.54	333
100	0	0	0	1.134	17.57	333	17.57	333
110	0	0	0	1.134	17.6	332	17.6	332
120	0	0	0	1.134	17.63	332	17.63	332
130	0	0	0	1.134	17.66	331	17.66	331
167	0	0	0	1.134	17.78	329	17.78	329
212	0	0	0	1.134	17.92	327	17.92	327

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.283

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.378	40.83	1000	40.83	1000*
20	0	0	0	1.134	40.64	337	40.63	337
30	0	0	0	1.134	40.69	337	40.68	337
40	0	0	0	1.134	40.74	336	40.73	336
50	0	0	0	1.134	40.79	336	40.79	336
60	0	0	0	1.134	40.84	336	40.84	336
70	0	0	0	1.134	40.9	335	40.89	335
80	0	0	0	1.134	40.93	335	40.93	335
90	0	0	0	1.134	40.96	335	40.96	335
100	0	0	0	1.134	41	335	41	335
110	0	0	0	1.134	41.03	334	41.03	334
120	0	0	0	1.134	41.06	334	41.06	334
130	0	0	0	1.134	41.09	334	41.09	334
167	0	0	0	1.134	41.21	333	41.21	333
212	0	0	0	1.134	41.35	332	41.35	332

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.378	77.91	1000	77.91	1000*
20	0	0	0	1.134	77.72	336	77.72	336
30	0	0	0	1.134	77.78	336	77.77	336
40	0	0	0	1.134	77.83	336	77.82	336
50	0	0	0	1.134	77.88	336	77.87	336
60	0	0	0	1.134	77.93	336	77.92	336
70	0	0	0	1.134	77.98	336	77.97	336
80	0	0	0	1.134	78.02	335	78.02	335
90	0	0	0	1.134	78.05	335	78.05	335
100	0	0	0	1.134	78.08	335	78.08	335
110	0	0	0	1.134	78.11	335	78.11	335
120	0	0	0	1.134	78.14	335	78.14	335
130	0	0	0	1.134	78.17	335	78.17	335
167	0	0	0	1.134	78.29	335	78.29	335
212	0	0	0	1.134	78.43	334	78.43	334

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.284

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Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.378	138.56	1000	138.56	1000*
20	0	0	0	1.134	138.37	336	138.37	336
30	0	0	0	1.134	138.42	336	138.42	336
40	0	0	0	1.134	138.47	336	138.46	336
50	0	0	0	1.134	138.52	336	138.51	336
60	0	0	0	1.134	138.57	336	138.56	336
70	0	0	0	1.134	138.62	336	138.61	336
80	0	0	0	1.134	138.66	336	138.66	336
90	0	0	0	1.134	138.69	336	138.69	336
100	0	0	0	1.134	138.72	336	138.72	336
110	0	0	0	1.134	138.75	336	138.75	336
120	0	0	0	1.134	138.78	335	138.78	335
130	0	0	0	1.134	138.81	335	138.81	335
167	0	0	0	1.134	138.92	335	138.92	335
212	0	0	0	1.134	139.06	335	139.06	335

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.285

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-3	2-4	2-4	2-4	2-5	2-5	2-5	2-6	2-6	2-6
100.00	4-1	4-1	4-2	4-2	4-3	4-4	4-4	4-5	4-5	4-5
125.00	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-10	6-11	6-11
150.00	9-2	9-3	9-5	9-6	9-7	9-9	9-10	9-11	10-0	10-0
175.00	12-5	12-7	12-9	12-11	13-1	13-3	13-5	13-6	13-7	13-8
200.00	16-4	16-6	16-9	16-11	17-2	17-4	17-7	17-8	17-10	17-11

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-3	2-4	2-4	2-4	2-5	2-5	2-5	2-6	2-6	2-6
100.00	4-1	4-1	4-2	4-3	4-3	4-4	4-4	4-5	4-5	4-5
125.00	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-10	6-11	6-11
150.00	9-2	9-3	9-5	9-6	9-8	9-9	9-10	9-11	10-0	10-0
175.00	12-6	12-8	12-10	13-0	13-2	13-4	13-5	13-6	13-7	13-8
200.00	16-4	16-7	16-9	17-0	17-2	17-5	17-7	17-8	17-10	17-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-3	4-3	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4
125.00	6-8	6-8	6-9	6-9	6-9	6-9	6-10	6-10	6-10	6-10
150.00	9-8	9-8	9-8	9-9	9-9	9-9	9-10	9-10	9-10	9-10
175.00	13-2	13-2	13-3	13-3	13-4	13-4	13-4	13-5	13-5	13-5
200.00	17-2	17-3	17-4	17-4	17-5	17-6	17-6	17-6	17-7	17-7
225.00	21-10	21-11	21-11	22-0	22-1	22-2	22-3	22-3	22-4	22-4
250.00	27-0	27-1	27-2	27-3	27-4	27-5	27-6	27-7	27-7	27-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-3	4-3	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4
125.00	6-8	6-8	6-9	6-9	6-9	6-9	6-10	6-10	6-10	6-10
150.00	9-8	9-8	9-8	9-9	9-9	9-9	9-10	9-10	9-10	9-10
175.00	13-2	13-2	13-3	13-3	13-4	13-4	13-4	13-5	13-5	13-5
200.00	17-2	17-3	17-4	17-4	17-5	17-6	17-6	17-6	17-7	17-7
225.00	21-10	21-11	22-0	22-0	22-1	22-2	22-3	22-3	22-4	22-4
250.00	27-0	27-1	27-2	27-3	27-4	27-5	27-6	27-7	27-7	27-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.287

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	10-0	10-0	10-0	10-0	10-0	10-1	10-1	10-1	10-1	10-1
175.00	13-7	13-8	13-8	13-8	13-8	13-8	13-9	13-9	13-9	13-9
200.00	17-10	17-10	17-10	17-11	17-11	17-11	17-11	18-0	18-0	18-0
225.00	22-7	22-8	22-8	22-8	22-9	22-9	22-9	22-10	22-10	22-10
250.00	28-0	28-1	28-1	28-1	28-2	28-2	28-3	28-3	28-3	28-3
275.00	34-0	34-1	34-1	34-2	34-2	34-3	34-3	34-4	34-4	34-4
300.00	40-8	40-8	40-9	40-9	40-10	40-11	40-11	41-0	41-0	41-0
325.00	47-11	47-11	48-0	48-1	48-1	48-2	48-3	48-3	48-4	48-4
350.00	55-9	55-10	55-11	56-0	56-1	56-2	56-2	56-3	56-3	56-4
375.00	64-4	64-5	64-6	64-7	64-8	64-9	64-10	64-10	64-11	65-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	10-0	10-0	10-0	10-0	10-0	10-1	10-1	10-1	10-1	10-1
175.00	13-7	13-8	13-8	13-8	13-8	13-8	13-9	13-9	13-9	13-9
200.00	17-10	17-10	17-10	17-11	17-11	17-11	17-11	18-0	18-0	18-0
225.00	22-8	22-8	22-8	22-9	22-9	22-9	22-9	22-10	22-10	22-10
250.00	28-0	28-1	28-1	28-2	28-2	28-2	28-3	28-3	28-3	28-3
275.00	34-0	34-1	34-1	34-2	34-2	34-3	34-3	34-4	34-4	34-4
300.00	40-8	40-8	40-9	40-10	40-10	40-11	40-11	41-0	41-0	41-0
325.00	47-11	47-11	48-0	48-1	48-2	48-2	48-3	48-3	48-4	48-4
350.00	55-9	55-10	55-11	56-0	56-1	56-2	56-2	56-3	56-3	56-4
375.00	64-4	64-5	64-6	64-7	64-8	64-9	64-10	64-10	64-11	65-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.288

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	18-9	18-9	18-10	18-10	18-10	18-10	18-10	18-10	18-10	18-10
225.00	23-10	23-10	23-10	23-11	23-11	23-11	23-11	23-11	23-11	23-11
250.00	29-6	29-7	29-7	29-7	29-7	29-7	29-8	29-8	29-8	29-8
275.00	35-10	35-11	35-11	35-11	35-11	36-0	36-0	36-0	36-0	36-0
300.00	42-10	42-11	42-11	42-11	43-0	43-0	43-0	43-0	43-1	43-1
325.00	50-6	50-7	50-7	50-7	50-8	50-8	50-8	50-9	50-9	50-9
350.00	58-10	58-11	58-11	59-0	59-0	59-1	59-1	59-1	59-2	59-2
375.00	67-11	68-0	68-0	68-1	68-1	68-2	68-2	68-3	68-3	68-3
400.00	77-9	77-9	77-10	77-10	77-11	78-0	78-0	78-1	78-1	78-1
425.00	88-3	88-4	88-4	88-5	88-6	88-7	88-7	88-8	88-8	88-8
450.00	99-7	99-7	99-8	99-9	99-10	99-11	99-11	100-0	100-0	100-1
475.00	111-8	111-9	111-10	111-11	111-11	112-0	112-1	112-2	112-2	112-3
500.00	124-7	124-8	124-9	124-10	124-11	125-0	125-1	125-2	125-2	125-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	18-9	18-9	18-10	18-10	18-10	18-10	18-10	18-10	18-10	18-10
225.00	23-10	23-10	23-10	23-11	23-11	23-11	23-11	23-11	23-11	23-11
250.00	29-6	29-7	29-7	29-7	29-7	29-7	29-8	29-8	29-8	29-8
275.00	35-10	35-11	35-11	35-11	35-11	36-0	36-0	36-0	36-0	36-0
300.00	42-10	42-11	42-11	42-11	43-0	43-0	43-0	43-0	43-1	43-1
325.00	50-6	50-7	50-7	50-7	50-8	50-8	50-8	50-9	50-9	50-9
350.00	58-10	58-11	58-11	59-0	59-0	59-1	59-1	59-1	59-2	59-2
375.00	67-11	68-0	68-0	68-1	68-1	68-2	68-2	68-3	68-3	68-3
400.00	77-9	77-9	77-10	77-11	77-11	78-0	78-0	78-1	78-1	78-1
425.00	88-3	88-4	88-5	88-5	88-6	88-7	88-7	88-8	88-8	88-8
450.00	99-7	99-8	99-8	99-9	99-10	99-11	99-11	100-0	100-0	100-1
475.00	111-8	111-9	111-10	111-11	112-0	112-1	112-1	112-2	112-2	112-3
500.00	124-7	124-8	124-9	124-10	124-11	125-0	125-1	125-2	125-2	125-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	32-5	32-6	32-6	32-6	32-6	32-6	32-6	32-6	32-6	32-6
275.00	39-5	39-5	39-6	39-6	39-6	39-6	39-6	39-6	39-6	39-6
300.00	47-2	47-2	47-2	47-3	47-3	47-3	47-3	47-3	47-3	47-3
325.00	55-8	55-8	55-8	55-9	55-9	55-9	55-9	55-9	55-9	55-10
350.00	64-11	64-11	65-0	65-0	65-0	65-0	65-1	65-1	65-1	65-1
375.00	75-0	75-0	75-0	75-1	75-1	75-1	75-2	75-2	75-2	75-2
400.00	85-11	85-11	85-11	86-0	86-0	86-0	86-1	86-1	86-1	86-1
425.00	97-8	97-8	97-9	97-9	97-9	97-10	97-10	97-10	97-11	97-11
450.00	110-3	110-4	110-4	110-5	110-5	110-6	110-6	110-6	110-7	110-7
475.00	123-10	123-11	123-11	124-0	124-0	124-1	124-1	124-2	124-2	124-2
500.00	138-4	138-5	138-6	138-6	138-7	138-7	138-8	138-8	138-9	138-9
525.00	153-11	153-11	154-0	154-1	154-1	154-2	154-2	154-3	154-3	154-4
550.00	170-5	170-6	170-7	170-7	170-8	170-9	170-9	170-10	170-10	170-11
575.00	188-0	188-1	188-2	188-3	188-4	188-5	188-5	188-6	188-6	188-7
600.00	206-9	206-10	206-11	207-0	207-1	207-2	207-3	207-3	207-4	207-5
625.00	226-8	226-9	226-10	226-11	227-0	227-2	227-2	227-3	227-4	227-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	32-5	32-6	32-6	32-6	32-6	32-6	32-6	32-6	32-6	32-6
275.00	39-5	39-5	39-6	39-6	39-6	39-6	39-6	39-6	39-6	39-6
300.00	47-2	47-2	47-2	47-3	47-3	47-3	47-3	47-3	47-3	47-3
325.00	55-8	55-8	55-8	55-9	55-9	55-9	55-9	55-9	55-9	55-10
350.00	64-11	64-11	65-0	65-0	65-0	65-0	65-1	65-1	65-1	65-1
375.00	75-0	75-0	75-1	75-1	75-1	75-1	75-2	75-2	75-2	75-2
400.00	85-11	85-11	85-11	86-0	86-0	86-0	86-1	86-1	86-1	86-1
425.00	97-8	97-8	97-9	97-9	97-9	97-10	97-10	97-10	97-11	97-11
450.00	110-3	110-4	110-4	110-5	110-5	110-6	110-6	110-6	110-7	110-7
475.00	123-10	123-11	123-11	124-0	124-0	124-1	124-1	124-2	124-2	124-2
500.00	138-4	138-5	138-6	138-6	138-7	138-7	138-8	138-8	138-9	138-9
525.00	153-11	153-11	154-0	154-1	154-1	154-2	154-2	154-3	154-3	154-4
550.00	170-5	170-6	170-7	170-7	170-8	170-9	170-9	170-10	170-10	170-11
575.00	188-1	188-1	188-2	188-3	188-4	188-5	188-5	188-6	188-6	188-7
600.00	206-9	206-10	206-11	207-0	207-1	207-2	207-3	207-3	207-4	207-5
625.00	226-8	226-9	226-11	227-0	227-1	227-2	227-2	227-3	227-4	227-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.290

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.378	2.82	1500	2.82	1500*
20	0	0	0	1.134	2.49	570	2.48	574
30	0	0	0	1.134	2.58	551	2.56	555
40	0	0	0	1.134	2.66	534	2.64	538
50	0	0	0	1.134	2.74	519	2.72	522
60	0	0	0	1.134	2.82	504	2.8	508
70	0	0	0	1.134	2.9	491	2.88	494
80	0	0	0	1.134	2.97	479	2.95	482
90	0	0	0	1.134	3.03	469	3.02	470
100	0	0	0	1.134	3.08	462	3.08	462
110	0	0	0	1.134	3.12	456	3.12	456
120	0	0	0	1.134	3.16	450	3.16	450
130	0	0	0	1.134	3.2	445	3.2	445
167	0	0	0	1.134	3.34	426	3.34	426
212	0	0	0	1.134	3.51	405	3.51	405

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.378	11.41	1500	11.41	1500*
20	0	0	0	1.134	11.09	518	11.07	519
30	0	0	0	1.134	11.17	514	11.15	515
40	0	0	0	1.134	11.24	511	11.23	511
50	0	0	0	1.134	11.32	507	11.31	508
60	0	0	0	1.134	11.4	504	11.38	505
70	0	0	0	1.134	11.48	500	11.46	501
80	0	0	0	1.134	11.56	497	11.54	498
90	0	0	0	1.134	11.63	494	11.61	495
100	0	0	0	1.134	11.68	492	11.68	492
110	0	0	0	1.134	11.73	490	11.73	490
120	0	0	0	1.134	11.77	488	11.77	488
130	0	0	0	1.134	11.82	486	11.82	486
167	0	0	0	1.134	11.99	480	11.99	480
212	0	0	0	1.134	12.19	472	12.19	472

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.378	26.1	1500	26.1	1500*
20	0	0	0	1.134	25.78	509	25.77	510
30	0	0	0	1.134	25.86	508	25.84	508
40	0	0	0	1.134	25.94	507	25.92	507
50	0	0	0	1.134	26.02	505	26	505
60	0	0	0	1.134	26.1	504	26.08	504
70	0	0	0	1.134	26.17	502	26.16	503
80	0	0	0	1.134	26.25	501	26.23	501
90	0	0	0	1.134	26.33	499	26.31	500
100	0	0	0	1.134	26.38	499	26.38	499
110	0	0	0	1.134	26.43	498	26.43	498
120	0	0	0	1.134	26.48	497	26.48	497
130	0	0	0	1.134	26.52	496	26.52	496
167	0	0	0	1.134	26.69	493	26.69	493
212	0	0	0	1.134	26.9	490	26.9	490

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.378	47.6	1500	47.6	1500*
20	0	0	0	1.134	47.28	507	47.26	507
30	0	0	0	1.134	47.36	506	47.34	506
40	0	0	0	1.134	47.44	505	47.42	505
50	0	0	0	1.134	47.51	504	47.5	505
60	0	0	0	1.134	47.59	504	47.57	504
70	0	0	0	1.134	47.67	503	47.65	503
80	0	0	0	1.134	47.75	502	47.73	502
90	0	0	0	1.134	47.83	501	47.81	502
100	0	0	0	1.134	47.88	501	47.88	501
110	0	0	0	1.134	47.93	501	47.93	501
120	0	0	0	1.134	47.97	500	47.97	500
130	0	0	0	1.134	48.02	500	48.02	500
167	0	0	0	1.134	48.19	498	48.19	498
212	0	0	0	1.134	48.4	496	48.4	496

* Design Condition

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SHEET 292 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.292

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.378	77.11	1500	77.11	1500*
20	0	0	0	1.134	76.79	505	76.78	505
30	0	0	0	1.134	76.87	505	76.86	505
40	0	0	0	1.134	76.95	504	76.93	505
50	0	0	0	1.134	77.03	504	77.01	504
60	0	0	0	1.134	77.11	504	77.09	504
70	0	0	0	1.134	77.18	503	77.16	503
80	0	0	0	1.134	77.26	503	77.24	503
90	0	0	0	1.134	77.34	502	77.32	502
100	0	0	0	1.134	77.39	502	77.39	502
110	0	0	0	1.134	77.44	502	77.44	502
120	0	0	0	1.134	77.48	502	77.48	502
130	0	0	0	1.134	77.53	501	77.53	501
167	0	0	0	1.134	77.71	500	77.71	500
212	0	0	0	1.134	77.92	499	77.92	499

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.293

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-5	1-5	1-6	1-6	1-7	1-7	1-8	1-8	1-9	1-9
100.00	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-1
125.00	3-10	4-0	4-2	4-3	4-5	4-6	4-7	4-9	4-10	4-11
150.00	5-7	5-9	5-11	6-2	6-4	6-6	6-8	6-10	6-11	7-0
175.00	7-7	7-10	8-1	8-4	8-7	8-10	9-1	9-3	9-5	9-7
200.00	9-11	10-3	10-7	10-11	11-3	11-7	11-10	12-2	12-4	12-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-5	1-5	1-6	1-6	1-7	1-8	1-8	1-8	1-9	1-9
100.00	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-1
125.00	3-11	4-0	4-2	4-3	4-5	4-6	4-8	4-9	4-10	4-11
150.00	5-7	5-10	6-0	6-2	6-4	6-6	6-8	6-10	6-11	7-0
175.00	7-8	7-11	8-2	8-5	8-8	8-11	9-1	9-4	9-5	9-7
200.00	10-0	10-4	10-8	11-0	11-4	11-7	11-11	12-2	12-4	12-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.294

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-9	2-9	2-10	2-10	2-10	2-10	2-10	2-11	2-11	2-11
125.00	4-4	4-4	4-4	4-5	4-5	4-6	4-6	4-6	4-7	4-7
150.00	6-3	6-3	6-4	6-4	6-5	6-5	6-6	6-6	6-7	6-7
175.00	8-6	8-6	8-7	8-8	8-8	8-9	8-10	8-11	8-11	9-0
200.00	11-1	11-2	11-3	11-4	11-5	11-6	11-6	11-7	11-8	11-9
225.00	14-0	14-1	14-3	14-4	14-5	14-6	14-7	14-9	14-10	14-10
250.00	17-4	17-6	17-7	17-8	17-10	17-11	18-1	18-2	18-4	18-4

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-9	2-9	2-10	2-10	2-10	2-10	2-11	2-11	2-11	2-11
125.00	4-4	4-4	4-5	4-5	4-5	4-6	4-6	4-6	4-7	4-7
150.00	6-3	6-3	6-4	6-4	6-5	6-5	6-6	6-6	6-7	6-7
175.00	8-6	8-6	8-7	8-8	8-9	8-9	8-10	8-11	8-11	9-0
200.00	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-8	11-9
225.00	14-1	14-2	14-3	14-4	14-5	14-7	14-8	14-9	14-10	14-10
250.00	17-4	17-6	17-7	17-9	17-10	18-0	18-1	18-3	18-4	18-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-5	6-5	6-5	6-5	6-6	6-6	6-6	6-6	6-7	6-7
175.00	8-9	8-9	8-9	8-9	8-10	8-10	8-10	8-11	8-11	8-11
200.00	11-5	11-5	11-6	11-6	11-6	11-7	11-7	11-8	11-8	11-8
225.00	14-5	14-6	14-6	14-7	14-7	14-8	14-8	14-9	14-9	14-10
250.00	17-10	17-11	17-11	18-0	18-1	18-1	18-2	18-3	18-3	18-4
275.00	21-7	21-8	21-9	21-10	21-11	21-11	22-0	22-1	22-2	22-2
300.00	25-9	25-10	25-11	26-0	26-1	26-2	26-3	26-4	26-5	26-5
325.00	30-3	30-5	30-6	30-7	30-8	30-9	30-10	30-11	31-0	31-1
350.00	35-2	35-4	35-5	35-6	35-7	35-9	35-10	35-11	36-0	36-1
375.00	40-6	40-7	40-9	40-10	41-0	41-1	41-3	41-4	41-5	41-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-5	6-5	6-5	6-5	6-6	6-6	6-6	6-6	6-7	6-7
175.00	8-9	8-9	8-9	8-10	8-10	8-10	8-10	8-11	8-11	8-11
200.00	11-5	11-5	11-6	11-6	11-6	11-7	11-7	11-8	11-8	11-8
225.00	14-5	14-6	14-6	14-7	14-7	14-8	14-8	14-9	14-9	14-10
250.00	17-10	17-11	18-0	18-0	18-1	18-1	18-2	18-3	18-3	18-4
275.00	21-8	21-8	21-9	21-10	21-11	22-0	22-0	22-1	22-2	22-2
300.00	25-9	25-10	25-11	26-0	26-1	26-2	26-3	26-4	26-5	26-5
325.00	30-4	30-5	30-6	30-7	30-8	30-9	30-10	30-11	31-0	31-1
350.00	35-3	35-4	35-5	35-6	35-8	35-9	35-10	36-0	36-0	36-1
375.00	40-6	40-8	40-9	40-11	41-0	41-2	41-3	41-4	41-5	41-6

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SHEET 296 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.296

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-8	11-8	11-8	11-9	11-9	11-9	11-9	11-9	11-10	11-10
225.00	14-9	14-10	14-10	14-10	14-10	14-11	14-11	14-11	15-0	15-0
250.00	18-3	18-3	18-4	18-4	18-5	18-5	18-5	18-6	18-6	18-6
275.00	22-2	22-2	22-2	22-3	22-3	22-4	22-4	22-5	22-5	22-5
300.00	26-5	26-5	26-6	26-6	26-7	26-7	26-8	26-8	26-9	26-9
325.00	31-0	31-1	31-1	31-2	31-3	31-3	31-4	31-4	31-5	31-5
350.00	36-0	36-1	36-2	36-3	36-3	36-4	36-5	36-5	36-6	36-6
375.00	41-5	41-6	41-7	41-8	41-9	41-9	41-10	41-11	42-0	42-0
400.00	47-3	47-4	47-5	47-6	47-7	47-8	47-9	47-10	47-11	47-11
425.00	53-6	53-7	53-8	53-9	53-10	53-11	54-0	54-1	54-2	54-3
450.00	60-1	60-2	60-4	60-5	60-6	60-7	60-8	60-10	60-11	60-11
475.00	67-2	67-3	67-4	67-6	67-7	67-8	67-10	67-11	68-0	68-1
500.00	74-7	74-9	74-10	75-0	75-1	75-3	75-4	75-6	75-7	75-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-8	11-8	11-8	11-9	11-9	11-9	11-9	11-10	11-10	11-10
225.00	14-9	14-10	14-10	14-10	14-10	14-11	14-11	14-11	15-0	15-0
250.00	18-3	18-4	18-4	18-4	18-5	18-5	18-5	18-6	18-6	18-6
275.00	22-2	22-2	22-3	22-3	22-3	22-4	22-4	22-5	22-5	22-5
300.00	26-5	26-5	26-6	26-6	26-7	26-7	26-8	26-8	26-9	26-9
325.00	31-0	31-1	31-1	31-2	31-3	31-3	31-4	31-5	31-5	31-5
350.00	36-1	36-1	36-2	36-3	36-3	36-4	36-5	36-6	36-6	36-6
375.00	41-6	41-6	41-7	41-8	41-9	41-10	41-10	41-11	42-0	42-0
400.00	47-3	47-4	47-5	47-6	47-7	47-8	47-9	47-10	47-11	47-11
425.00	53-6	53-7	53-8	53-9	53-10	53-11	54-0	54-1	54-2	54-3
450.00	60-1	60-3	60-4	60-5	60-6	60-8	60-9	60-10	60-11	60-11
475.00	67-2	67-3	67-5	67-6	67-7	67-9	67-10	67-11	68-0	68-1
500.00	74-7	74-9	74-10	75-0	75-2	75-3	75-5	75-6	75-7	75-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	18-9	18-10	18-10	18-10	18-10	18-10	18-11	18-11	18-11	18-11
275.00	22-9	22-9	22-10	22-10	22-10	22-10	22-11	22-11	22-11	22-11
300.00	27-1	27-2	27-2	27-2	27-3	27-3	27-3	27-4	27-4	27-4
325.00	31-11	31-11	31-11	32-0	32-0	32-1	32-1	32-1	32-2	32-2
350.00	37-1	37-1	37-2	37-2	37-2	37-3	37-3	37-4	37-4	37-4
375.00	42-8	42-8	42-9	42-9	42-10	42-10	42-11	42-11	43-0	43-0
400.00	48-7	48-8	48-9	48-9	48-10	48-10	48-11	48-11	49-0	49-0
425.00	55-0	55-1	55-2	55-2	55-3	55-4	55-4	55-5	55-5	55-6
450.00	61-10	61-11	62-0	62-0	62-1	62-2	62-3	62-3	62-4	62-4
475.00	69-1	69-2	69-3	69-4	69-4	69-5	69-6	69-7	69-8	69-8
500.00	76-9	76-10	76-11	77-0	77-1	77-2	77-3	77-4	77-5	77-5
525.00	84-11	85-0	85-1	85-2	85-3	85-4	85-5	85-6	85-7	85-8
550.00	93-6	93-7	93-8	93-9	93-10	93-11	94-1	94-2	94-3	94-3
575.00	102-6	102-7	102-9	102-10	102-11	103-0	103-2	103-3	103-4	103-5
600.00	112-0	112-1	112-3	112-4	112-6	112-7	112-8	112-10	112-11	113-0
625.00	122-0	122-1	122-3	122-4	122-6	122-7	122-9	122-10	123-0	123-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	18-9	18-10	18-10	18-10	18-10	18-10	18-11	18-11	18-11	18-11
275.00	22-9	22-9	22-10	22-10	22-10	22-10	22-11	22-11	22-11	22-11
300.00	27-2	27-2	27-2	27-2	27-3	27-3	27-3	27-4	27-4	27-4
325.00	31-11	31-11	32-0	32-0	32-0	32-1	32-1	32-1	32-2	32-2
350.00	37-1	37-1	37-2	37-2	37-3	37-3	37-3	37-4	37-4	37-4
375.00	42-8	42-8	42-9	42-9	42-10	42-10	42-11	42-11	43-0	43-0
400.00	48-8	48-8	48-9	48-9	48-10	48-10	48-11	49-0	49-0	49-0
425.00	55-0	55-1	55-2	55-2	55-3	55-4	55-4	55-5	55-5	55-6
450.00	61-10	61-11	62-0	62-1	62-1	62-2	62-3	62-3	62-4	62-4
475.00	69-1	69-2	69-3	69-4	69-5	69-5	69-6	69-7	69-8	69-8
500.00	76-10	76-10	76-11	77-0	77-1	77-2	77-3	77-4	77-5	77-5
525.00	84-11	85-0	85-1	85-2	85-3	85-4	85-5	85-6	85-7	85-8
550.00	93-6	93-7	93-8	93-9	93-11	94-0	94-1	94-2	94-3	94-3
575.00	102-6	102-8	102-9	102-10	102-11	103-1	103-2	103-3	103-4	103-5
600.00	112-0	112-2	112-3	112-4	112-6	112-7	112-9	112-10	112-11	113-0
625.00	122-0	122-1	122-3	122-5	122-6	122-8	122-9	122-11	123-0	123-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.298

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.378	2.11	2000	2.11	2000*
20	0	0	0	1.134	1.62	876	1.59	893
30	0	0	0	1.134	1.74	814	1.71	829
40	0	0	0	1.134	1.86	763	1.83	777
50	0	0	0	1.134	1.97	721	1.94	733
60	0	0	0	1.134	2.07	684	2.04	695
70	0	0	0	1.134	2.18	653	2.14	663
80	0	0	0	1.134	2.27	625	2.24	634
90	0	0	0	1.134	2.36	601	2.33	609
100	0	0	0	1.134	2.45	581	2.42	587
110	0	0	0	1.134	2.5	569	2.5	569
120	0	0	0	1.134	2.55	558	2.55	558
130	0	0	0	1.134	2.59	548	2.59	548
167	0	0	0	1.134	2.76	514	2.76	514
212	0	0	0	1.134	2.96	480	2.96	480

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.378	8.51	2000	8.51	2000*
20	0	0	0	1.134	8.04	710	8.01	713
30	0	0	0	1.134	8.15	701	8.11	703
40	0	0	0	1.134	8.25	692	8.22	694
50	0	0	0	1.134	8.36	683	8.33	686
60	0	0	0	1.134	8.46	675	8.43	677
70	0	0	0	1.134	8.57	667	8.53	669
80	0	0	0	1.134	8.67	659	8.63	662
90	0	0	0	1.134	8.77	651	8.74	654
100	0	0	0	1.134	8.87	644	8.83	647
110	0	0	0	1.134	8.95	639	8.93	640
120	0	0	0	1.134	9.01	634	9.01	634
130	0	0	0	1.134	9.07	630	9.07	630
167	0	0	0	1.134	9.28	616	9.28	616
212	0	0	0	1.134	9.53	600	9.53	600

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.299

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.378	19.31	2000	19.31	2000*
20	0	0	0	1.134	18.85	687	18.82	689
30	0	0	0	1.134	18.96	684	18.93	685
40	0	0	0	1.134	19.06	680	19.03	681
50	0	0	0	1.134	19.17	676	19.14	678
60	0	0	0	1.134	19.27	673	19.24	674
70	0	0	0	1.134	19.38	669	19.34	671
80	0	0	0	1.134	19.48	666	19.45	667
90	0	0	0	1.134	19.58	663	19.55	664
100	0	0	0	1.134	19.69	659	19.65	660
110	0	0	0	1.134	19.78	656	19.75	657
120	0	0	0	1.134	19.84	654	19.84	654
130	0	0	0	1.134	19.91	652	19.91	652
167	0	0	0	1.134	20.13	645	20.13	645
212	0	0	0	1.134	20.4	637	20.4	637

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.378	34.8	2000	34.8	2000*
20	0	0	0	1.134	34.34	680	34.31	681
30	0	0	0	1.134	34.45	678	34.41	679
40	0	0	0	1.134	34.55	676	34.52	677
50	0	0	0	1.134	34.66	674	34.62	675
60	0	0	0	1.134	34.76	672	34.73	673
70	0	0	0	1.134	34.86	670	34.83	671
80	0	0	0	1.134	34.97	668	34.93	669
90	0	0	0	1.134	35.07	667	35.03	667
100	0	0	0	1.134	35.17	665	35.14	665
110	0	0	0	1.134	35.27	663	35.24	664
120	0	0	0	1.134	35.34	662	35.34	662
130	0	0	0	1.134	35.4	661	35.4	661
167	0	0	0	1.134	35.63	657	35.63	657
212	0	0	0	1.134	35.91	652	35.91	652

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.300

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.378	55.37	2000	55.37	2000*
20	0	0	0	1.134	54.92	677	54.88	677
30	0	0	0	1.134	55.02	675	54.99	676
40	0	0	0	1.134	55.12	674	55.09	675
50	0	0	0	1.134	55.23	673	55.2	673
60	0	0	0	1.134	55.33	672	55.3	672
70	0	0	0	1.134	55.44	671	55.4	671
80	0	0	0	1.134	55.54	670	55.51	670
90	0	0	0	1.134	55.64	669	55.61	669
100	0	0	0	1.134	55.75	667	55.71	668
110	0	0	0	1.134	55.84	666	55.81	667
120	0	0	0	1.134	55.91	666	55.91	666
130	0	0	0	1.134	55.98	665	55.98	665
167	0	0	0	1.134	56.21	662	56.21	662
212	0	0	0	1.134	56.49	660	56.49	660

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.301

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5
100.00	1-7	1-9	1-10	1-11	2-0	2-2	2-3	2-4	2-5	2-6
125.00	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-9	3-11
150.00	3-7	3-10	4-1	4-4	4-7	4-10	5-0	5-3	5-5	5-8
175.00	4-10	5-3	5-7	5-11	6-3	6-7	6-10	7-2	7-5	7-8
200.00	6-4	6-10	7-4	7-9	8-2	8-7	9-0	9-4	9-8	10-0

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-5
100.00	1-7	1-9	1-10	2-0	2-1	2-2	2-3	2-4	2-5	2-6
125.00	2-6	2-9	2-11	3-1	3-3	3-5	3-7	3-8	3-10	3-11
150.00	3-8	3-11	4-2	4-5	4-8	4-11	5-1	5-4	5-6	5-8
175.00	5-0	5-4	5-8	6-0	6-4	6-8	7-0	7-3	7-6	7-8
200.00	6-6	7-0	7-5	7-11	8-4	8-9	9-1	9-6	9-10	10-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.302

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-0	2-0	2-1	2-1	2-1	2-2	2-2	2-2	2-2	2-3
125.00	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6
150.00	4-6	4-7	4-7	4-8	4-9	4-10	4-10	4-11	5-0	5-0
175.00	6-2	6-3	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-10
200.00	8-0	8-1	8-3	8-4	8-5	8-6	8-8	8-9	8-10	8-11
225.00	10-2	10-3	10-5	10-7	10-8	10-10	10-11	11-1	11-2	11-4
250.00	12-6	12-8	12-10	13-0	13-2	13-4	13-6	13-8	13-10	14-0

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-0	2-0	2-1	2-1	2-1	2-2	2-2	2-2	2-3	2-3
125.00	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6	3-6
150.00	4-6	4-7	4-8	4-8	4-9	4-10	4-10	4-11	5-0	5-0
175.00	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-9	6-10
200.00	8-0	8-2	8-3	8-4	8-6	8-7	8-8	8-9	8-10	8-11
225.00	10-2	10-4	10-5	10-7	10-9	10-10	11-0	11-1	11-3	11-4
250.00	12-7	12-9	12-11	13-1	13-3	13-5	13-7	13-9	13-11	14-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-8	4-9	4-9	4-9	4-9	4-10	4-10	4-10	4-11	4-11
175.00	6-5	6-5	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-8
200.00	8-4	8-5	8-5	8-6	8-6	8-7	8-7	8-8	8-8	8-9
225.00	10-7	10-7	10-8	10-9	10-10	10-10	10-11	11-0	11-0	11-1
250.00	13-1	13-1	13-2	13-3	13-4	13-5	13-6	13-7	13-7	13-8
275.00	15-10	15-11	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-7
300.00	18-10	18-11	19-0	19-2	19-3	19-4	19-5	19-7	19-8	19-9
325.00	22-1	22-3	22-4	22-6	22-7	22-9	22-10	23-0	23-1	23-2
350.00	25-8	25-10	25-11	26-1	26-3	26-5	26-6	26-8	26-10	26-11
375.00	29-6	29-8	29-10	30-0	30-2	30-4	30-6	30-8	30-10	31-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-8	4-9	4-9	4-9	4-10	4-10	4-10	4-11	4-11	4-11
175.00	6-5	6-5	6-6	6-6	6-6	6-7	6-7	6-8	6-8	6-8
200.00	8-4	8-5	8-5	8-6	8-6	8-7	8-8	8-8	8-9	8-9
225.00	10-7	10-8	10-8	10-9	10-10	10-10	10-11	11-0	11-1	11-1
250.00	13-1	13-2	13-3	13-3	13-4	13-5	13-6	13-7	13-8	13-9
275.00	15-10	15-11	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-7
300.00	18-10	18-11	19-1	19-2	19-3	19-5	19-6	19-7	19-8	19-9
325.00	22-2	22-3	22-5	22-6	22-8	22-9	22-11	23-0	23-2	23-3
350.00	25-8	25-10	26-0	26-2	26-3	26-5	26-7	26-9	26-10	27-0
375.00	29-7	29-9	29-11	30-1	30-2	30-4	30-6	30-8	30-10	31-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.304

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-6	8-6	8-7	8-7	8-7	8-8	8-8	8-8	8-9	8-9
225.00	10-9	10-10	10-10	10-11	10-11	10-11	11-0	11-0	11-0	11-1
250.00	13-4	13-4	13-5	13-5	13-6	13-6	13-7	13-7	13-8	13-8
275.00	16-2	16-2	16-3	16-3	16-4	16-5	16-5	16-6	16-6	16-7
300.00	19-3	19-3	19-4	19-5	19-5	19-6	19-7	19-7	19-8	19-9
325.00	22-7	22-8	22-9	22-9	22-10	22-11	23-0	23-1	23-1	23-2
350.00	26-3	26-3	26-4	26-5	26-6	26-7	26-8	26-9	26-10	26-11
375.00	30-1	30-3	30-4	30-5	30-6	30-7	30-8	30-9	30-10	30-11
400.00	34-4	34-5	34-6	34-7	34-9	34-10	34-11	35-0	35-2	35-3
425.00	38-9	38-11	39-0	39-2	39-3	39-4	39-6	39-7	39-9	39-10
450.00	43-6	43-8	43-10	43-11	44-1	44-2	44-4	44-6	44-7	44-9
475.00	48-7	48-9	48-10	49-0	49-2	49-4	49-6	49-7	49-9	49-11
500.00	53-11	54-1	54-3	54-5	54-7	54-9	54-11	55-1	55-3	55-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-6	8-7	8-7	8-7	8-8	8-8	8-8	8-8	8-9	8-9
225.00	10-10	10-10	10-10	10-11	10-11	10-11	11-0	11-0	11-1	11-1
250.00	13-4	13-5	13-5	13-5	13-6	13-6	13-7	13-7	13-8	13-8
275.00	16-2	16-2	16-3	16-4	16-4	16-5	16-5	16-6	16-6	16-7
300.00	19-3	19-4	19-4	19-5	19-6	19-6	19-7	19-8	19-8	19-9
325.00	22-7	22-8	22-9	22-10	22-10	22-11	23-0	23-1	23-2	23-2
350.00	26-3	26-4	26-5	26-6	26-7	26-8	26-9	26-9	26-10	26-11
375.00	30-2	30-3	30-4	30-5	30-6	30-7	30-8	30-9	30-11	31-0
400.00	34-4	34-5	34-7	34-8	34-9	34-10	35-0	35-1	35-2	35-3
425.00	38-10	38-11	39-1	39-2	39-3	39-5	39-6	39-8	39-9	39-10
450.00	43-7	43-8	43-10	44-0	44-1	44-3	44-4	44-6	44-8	44-9
475.00	48-7	48-9	48-11	49-1	49-3	49-4	49-6	49-8	49-10	49-11
500.00	53-11	54-1	54-3	54-5	54-7	54-9	54-11	55-1	55-3	55-5

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STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.305

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	13-7	13-7	13-7	13-8	13-8	13-8	13-9	13-9	13-9	13-9
275.00	16-5	16-5	16-6	16-6	16-7	16-7	16-7	16-8	16-8	16-8
300.00	19-7	19-7	19-8	19-8	19-8	19-9	19-9	19-10	19-10	19-11
325.00	23-0	23-0	23-1	23-1	23-2	23-2	23-3	23-3	23-4	23-4
350.00	26-8	26-9	26-9	26-10	26-11	26-11	27-0	27-0	27-1	27-2
375.00	30-8	30-9	30-9	30-10	30-11	30-11	31-0	31-1	31-1	31-2
400.00	34-11	35-0	35-1	35-2	35-2	35-3	35-4	35-5	35-5	35-6
425.00	39-6	39-7	39-8	39-8	39-9	39-10	39-11	40-0	40-1	40-2
450.00	44-4	44-5	44-6	44-7	44-8	44-9	44-10	44-11	45-0	45-1
475.00	49-5	49-7	49-8	49-9	49-10	49-11	50-0	50-1	50-2	50-4
500.00	54-11	55-0	55-1	55-2	55-4	55-5	55-6	55-7	55-9	55-10
525.00	60-7	60-9	60-10	60-11	61-1	61-2	61-4	61-5	61-6	61-8
550.00	66-8	66-9	66-11	67-0	67-2	67-3	67-5	67-6	67-8	67-9
575.00	72-11	73-1	73-3	73-4	73-6	73-8	73-9	73-11	74-1	74-2
600.00	79-7	79-9	79-11	80-0	80-2	80-4	80-6	80-8	80-9	80-11
625.00	86-6	86-8	86-10	87-0	87-2	87-4	87-6	87-8	87-10	88-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	13-7	13-7	13-7	13-8	13-8	13-8	13-9	13-9	13-9	13-10
275.00	16-5	16-6	16-6	16-6	16-7	16-7	16-7	16-8	16-8	16-8
300.00	19-7	19-7	19-8	19-8	19-9	19-9	19-10	19-10	19-10	19-11
325.00	23-0	23-0	23-1	23-1	23-2	23-3	23-3	23-4	23-4	23-5
350.00	26-8	26-9	26-10	26-10	26-11	26-11	27-0	27-1	27-1	27-2
375.00	30-8	30-9	30-10	30-10	30-11	31-0	31-0	31-1	31-2	31-2
400.00	34-11	35-0	35-1	35-2	35-3	35-3	35-4	35-5	35-6	35-6
425.00	39-6	39-7	39-8	39-9	39-10	39-11	39-11	40-0	40-1	40-2
450.00	44-4	44-5	44-6	44-7	44-8	44-9	44-10	44-11	45-0	45-1
475.00	49-6	49-7	49-8	49-9	49-10	49-11	50-1	50-2	50-3	50-4
500.00	54-11	55-0	55-1	55-3	55-4	55-5	55-6	55-8	55-9	55-10
525.00	60-8	60-9	60-10	61-0	61-1	61-3	61-4	61-5	61-7	61-8
550.00	66-8	66-10	66-11	67-1	67-2	67-4	67-5	67-7	67-8	67-10
575.00	73-0	73-2	73-3	73-5	73-7	73-8	73-10	74-0	74-1	74-3
600.00	79-7	79-9	79-11	80-1	80-3	80-5	80-6	80-8	80-10	81-0
625.00	86-7	86-9	86-11	87-1	87-3	87-5	87-7	87-9	87-11	88-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.306

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.378	1.69	2500	1.69	2500*
20	0	0	0	1.134	1.01	1400	0.97	1458
30	0	0	0	1.134	1.17	1208	1.13	1259
40	0	0	0	1.134	1.32	1071	1.27	1113
50	0	0	0	1.134	1.47	968	1.41	1003
60	0	0	0	1.134	1.6	888	1.55	918
70	0	0	0	1.134	1.72	824	1.67	850
80	0	0	0	1.134	1.84	772	1.79	794
90	0	0	0	1.134	1.95	728	1.9	747
100	0	0	0	1.134	2.06	691	2.01	708
110	0	0	0	1.134	2.14	663	2.11	674
120	0	0	0	1.134	2.2	647	2.2	647
130	0	0	0	1.134	2.25	632	2.25	632
167	0	0	0	1.134	2.44	583	2.43	584
212	0	0	0	1.134	2.65	536	2.65	537

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.378	6.79	2500	6.79	2500*
20	0	0	0	1.134	6.15	926	6.1	933
30	0	0	0	1.134	6.29	905	6.24	913
40	0	0	0	1.134	6.43	886	6.37	893
50	0	0	0	1.134	6.56	868	6.51	875
60	0	0	0	1.134	6.69	851	6.64	858
70	0	0	0	1.134	6.82	835	6.76	842
80	0	0	0	1.134	6.95	820	6.89	827
90	0	0	0	1.134	7.07	806	7.01	812
100	0	0	0	1.134	7.19	792	7.14	799
110	0	0	0	1.134	7.31	779	7.26	785
120	0	0	0	1.134	7.42	768	7.38	773
130	0	0	0	1.134	7.49	761	7.49	761
167	0	0	0	1.134	7.75	736	7.75	736
212	0	0	0	1.134	8.04	710	8.04	710

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.307

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.378	15.36	2500	15.36	2500*
20	0	0	0	1.134	14.73	874	14.68	877
30	0	0	0	1.134	14.87	867	14.81	870
40	0	0	0	1.134	15	859	14.95	862
50	0	0	0	1.134	15.13	852	15.08	855
60	0	0	0	1.134	15.26	845	15.21	848
70	0	0	0	1.134	15.39	838	15.34	841
80	0	0	0	1.134	15.52	831	15.46	834
90	0	0	0	1.134	15.65	824	15.59	827
100	0	0	0	1.134	15.77	818	15.72	821
110	0	0	0	1.134	15.9	811	15.84	814
120	0	0	0	1.134	16.03	805	15.97	808
130	0	0	0	1.134	16.11	801	16.09	802
167	0	0	0	1.134	16.39	788	16.39	788
212	0	0	0	1.134	16.72	773	16.72	773

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.378	27.53	2500	27.53	2500*
20	0	0	0	1.134	26.91	858	26.86	860
30	0	0	0	1.134	27.04	854	26.99	856
40	0	0	0	1.134	27.17	850	27.12	852
50	0	0	0	1.134	27.31	846	27.25	848
60	0	0	0	1.134	27.44	842	27.38	844
70	0	0	0	1.134	27.57	838	27.51	840
80	0	0	0	1.134	27.7	835	27.64	836
90	0	0	0	1.134	27.82	831	27.77	833
100	0	0	0	1.134	27.95	827	27.9	829
110	0	0	0	1.134	28.08	824	28.02	825
120	0	0	0	1.134	28.21	820	28.15	822
130	0	0	0	1.134	28.31	817	28.27	818
167	0	0	0	1.134	28.6	809	28.6	809
212	0	0	0	1.134	28.94	800	28.94	800

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.308

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Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.378	43.5	2500	43.5	2500*
20	0	0	0	1.134	42.88	851	42.83	852
30	0	0	0	1.134	43.01	848	42.96	849
40	0	0	0	1.134	43.14	846	43.09	847
50	0	0	0	1.134	43.27	844	43.22	844
60	0	0	0	1.134	43.4	841	43.35	842
70	0	0	0	1.134	43.53	839	43.48	840
80	0	0	0	1.134	43.66	836	43.61	837
90	0	0	0	1.134	43.79	834	43.74	835
100	0	0	0	1.134	43.92	832	43.86	833
110	0	0	0	1.134	44.05	830	43.99	831
120	0	0	0	1.134	44.18	827	44.12	828
130	0	0	0	1.134	44.28	825	44.25	826
167	0	0	0	1.134	44.58	820	44.58	820
212	0	0	0	1.134	44.92	814	44.92	814

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.309

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-2
100.00	1-0	1-2	1-3	1-5	1-7	1-8	1-9	1-11	2-0	2-1
125.00	1-6	1-9	2-0	2-3	2-5	2-7	2-10	3-0	3-2	3-4
150.00	2-2	2-6	2-10	3-2	3-6	3-9	4-0	4-3	4-6	4-9
175.00	3-0	3-5	3-11	4-4	4-9	5-1	5-6	5-10	6-2	6-6
200.00	3-11	4-6	5-1	5-8	6-2	6-8	7-2	7-7	8-0	8-5

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2
100.00	1-0	1-2	1-4	1-6	1-7	1-9	1-10	1-11	2-1	2-2
125.00	1-7	1-10	2-1	2-3	2-6	2-8	2-10	3-1	3-3	3-4
150.00	2-3	2-8	3-0	3-4	3-7	3-11	4-2	4-5	4-8	4-10
175.00	3-1	3-7	4-1	4-6	4-11	5-3	5-8	6-0	6-4	6-7
200.00	4-1	4-8	5-4	5-10	6-5	6-11	7-4	7-10	8-3	8-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-7	1-7	1-7	1-8	1-8	1-9	1-9	1-9	1-10
125.00	2-5	2-5	2-6	2-6	2-7	2-8	2-8	2-9	2-9	2-10
150.00	3-5	3-6	3-7	3-8	3-9	3-10	3-10	3-11	4-0	4-1
175.00	4-8	4-9	4-11	5-0	5-1	5-2	5-3	5-4	5-6	5-7
200.00	6-1	6-3	6-4	6-6	6-8	6-9	6-11	7-0	7-2	7-3
225.00	7-9	7-11	8-1	8-3	8-5	8-7	8-9	8-11	9-0	9-2
250.00	9-6	9-9	10-0	10-2	10-5	10-7	10-9	11-0	11-2	11-4

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-7	1-7	1-8	1-8	1-8	1-9	1-9	1-10	1-10
125.00	2-5	2-5	2-6	2-7	2-7	2-8	2-9	2-9	2-10	2-10
150.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-1
175.00	4-8	4-10	4-11	5-0	5-1	5-3	5-4	5-5	5-6	5-7
200.00	6-2	6-3	6-5	6-7	6-8	6-10	6-11	7-1	7-2	7-4
225.00	7-9	8-0	8-2	8-4	8-6	8-8	8-10	8-11	9-1	9-3
250.00	9-7	9-10	10-1	10-3	10-6	10-8	10-10	11-1	11-3	11-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.311

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-8	3-8	3-9	3-9	3-10	3-10	3-10	3-11	3-11	3-11
175.00	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-4	5-4	5-5
200.00	6-6	6-7	6-8	6-8	6-9	6-10	6-10	6-11	7-0	7-0
225.00	8-3	8-4	8-5	8-6	8-6	8-7	8-8	8-9	8-10	8-11
250.00	10-2	10-3	10-4	10-6	10-7	10-8	10-9	10-10	10-11	11-0
275.00	12-4	12-5	12-7	12-8	12-9	12-11	13-0	13-1	13-2	13-4
300.00	14-8	14-10	14-11	15-1	15-2	15-4	15-6	15-7	15-9	15-10
325.00	17-3	17-5	17-7	17-8	17-10	18-0	18-2	18-4	18-5	18-7
350.00	20-0	20-2	20-4	20-7	20-9	20-11	21-1	21-3	21-5	21-7
375.00	23-0	23-2	23-5	23-7	23-10	24-0	24-3	24-5	24-7	24-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-8	3-8	3-9	3-9	3-10	3-10	3-10	3-11	3-11	4-0
175.00	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-5
200.00	6-6	6-7	6-8	6-9	6-9	6-10	6-11	6-11	7-0	7-1
225.00	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-9	8-10	8-11
250.00	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0
275.00	12-4	12-6	12-7	12-8	12-10	12-11	13-0	13-2	13-3	13-4
300.00	14-9	14-10	15-0	15-2	15-3	15-5	15-6	15-8	15-9	15-11
325.00	17-4	17-5	17-7	17-9	17-11	18-1	18-3	18-5	18-6	18-8
350.00	20-1	20-3	20-5	20-7	20-10	21-0	21-2	21-4	21-6	21-8
375.00	23-1	23-3	23-6	23-8	23-11	24-1	24-4	24-6	24-8	24-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.312

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-8	6-9	6-9	6-9	6-10	6-10	6-11	6-11	6-11	7-0
225.00	8-6	8-6	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-10
250.00	10-5	10-6	10-7	10-7	10-8	10-8	10-9	10-10	10-10	10-11
275.00	12-8	12-9	12-9	12-10	12-11	13-0	13-0	13-1	13-2	13-2
300.00	15-1	15-2	15-3	15-3	15-4	15-5	15-6	15-7	15-8	15-9
325.00	17-8	17-9	17-10	17-11	18-0	18-1	18-2	18-4	18-5	18-6
350.00	20-6	20-8	20-9	20-10	20-11	21-0	21-2	21-3	21-4	21-5
375.00	23-7	23-8	23-10	23-11	24-1	24-2	24-3	24-5	24-6	24-7
400.00	26-10	27-0	27-1	27-3	27-5	27-6	27-8	27-9	27-11	28-0
425.00	30-4	30-6	30-8	30-9	30-11	31-1	31-3	31-4	31-6	31-8
450.00	34-1	34-3	34-5	34-7	34-9	34-11	35-0	35-2	35-4	35-6
475.00	38-0	38-2	38-4	38-6	38-9	38-11	39-1	39-3	39-5	39-7
500.00	42-1	42-4	42-6	42-9	42-11	43-2	43-4	43-7	43-9	43-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-8	6-9	6-9	6-10	6-10	6-10	6-11	6-11	6-11	7-0
225.00	8-6	8-6	8-7	8-7	8-8	8-8	8-9	8-9	8-10	8-10
250.00	10-6	10-6	10-7	10-8	10-8	10-9	10-9	10-10	10-11	10-11
275.00	12-8	12-9	12-10	12-10	12-11	13-0	13-1	13-1	13-2	13-3
300.00	15-1	15-2	15-3	15-4	15-5	15-6	15-6	15-7	15-8	15-9
325.00	17-9	17-10	17-11	18-0	18-1	18-2	18-3	18-4	18-5	18-6
350.00	20-7	20-8	20-9	20-11	21-0	21-1	21-2	21-3	21-4	21-6
375.00	23-8	23-9	23-10	24-0	24-1	24-3	24-4	24-5	24-7	24-8
400.00	26-11	27-1	27-2	27-4	27-5	27-7	27-8	27-10	27-11	28-1
425.00	30-5	30-7	30-8	30-10	31-0	31-2	31-3	31-5	31-7	31-9
450.00	34-1	34-3	34-5	34-7	34-9	34-11	35-1	35-3	35-5	35-7
475.00	38-0	38-3	38-5	38-7	38-9	39-0	39-2	39-4	39-6	39-8
500.00	42-2	42-5	42-7	42-10	43-0	43-3	43-5	43-8	43-10	44-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.313

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-8	10-8	10-8	10-9	10-9	10-9	10-10	10-10	10-11	10-11
275.00	12-10	12-11	12-11	13-0	13-0	13-1	13-1	13-2	13-2	13-3
300.00	15-4	15-4	15-5	15-6	15-6	15-7	15-7	15-8	15-8	15-9
325.00	18-0	18-1	18-1	18-2	18-3	18-3	18-4	18-4	18-5	18-6
350.00	20-11	20-11	21-0	21-1	21-2	21-2	21-3	21-4	21-5	21-5
375.00	24-0	24-1	24-2	24-2	24-3	24-4	24-5	24-6	24-7	24-8
400.00	27-4	27-5	27-6	27-7	27-8	27-9	27-10	27-11	28-0	28-1
425.00	30-10	30-11	31-1	31-2	31-3	31-4	31-5	31-6	31-7	31-8
450.00	34-8	34-9	34-10	34-11	35-1	35-2	35-3	35-4	35-6	35-7
475.00	38-7	38-9	38-10	39-0	39-1	39-2	39-4	39-5	39-7	39-8
500.00	42-10	43-0	43-1	43-3	43-4	43-6	43-7	43-9	43-10	44-0
525.00	47-3	47-5	47-7	47-8	47-10	48-0	48-2	48-3	48-5	48-7
550.00	51-11	52-1	52-3	52-5	52-7	52-9	52-11	53-0	53-2	53-4
575.00	56-10	57-0	57-2	57-4	57-6	57-8	57-10	58-0	58-2	58-4
600.00	61-11	62-2	62-4	62-6	62-8	62-11	63-1	63-3	63-5	63-8
625.00	67-3	67-6	67-8	67-11	68-1	68-4	68-6	68-9	68-11	69-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-8	10-8	10-8	10-9	10-9	10-10	10-10	10-10	10-11	10-11
275.00	12-11	12-11	13-0	13-0	13-0	13-1	13-1	13-2	13-2	13-3
300.00	15-4	15-5	15-5	15-6	15-6	15-7	15-7	15-8	15-9	15-9
325.00	18-0	18-1	18-2	18-2	18-3	18-3	18-4	18-5	18-5	18-6
350.00	20-11	21-0	21-0	21-1	21-2	21-3	21-3	21-4	21-5	21-6
375.00	24-0	24-1	24-2	24-3	24-4	24-5	24-5	24-6	24-7	24-8
400.00	27-4	27-5	27-6	27-7	27-8	27-9	27-10	27-11	28-0	28-1
425.00	30-11	31-0	31-1	31-2	31-3	31-4	31-6	31-7	31-8	31-9
450.00	34-8	34-9	34-11	35-0	35-1	35-2	35-4	35-5	35-6	35-7
475.00	38-8	38-9	38-11	39-0	39-2	39-3	39-4	39-6	39-7	39-9
500.00	42-11	43-0	43-2	43-3	43-5	43-6	43-8	43-10	43-11	44-1
525.00	47-4	47-6	47-7	47-9	47-11	48-1	48-2	48-4	48-6	48-7
550.00	52-0	52-2	52-4	52-6	52-8	52-9	52-11	53-1	53-3	53-5
575.00	56-11	57-1	57-3	57-5	57-7	57-9	57-11	58-1	58-3	58-5
600.00	62-0	62-2	62-5	62-7	62-9	63-0	63-2	63-4	63-6	63-9
625.00	67-4	67-7	67-9	68-0	68-2	68-5	68-7	68-10	69-0	69-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.314

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.378	1.41	2994	1.41	3000*
20	0	0	0	1.134	0.61	2342	0.58	2425
30	0	0	0	1.134	0.76	1857	0.72	1974
40	0	0	0	1.134	0.93	1522	0.87	1632
50	0	0	0	1.134	1.1	1293	1.02	1384
60	0	0	0	1.134	1.25	1132	1.18	1205
70	0	0	0	1.134	1.4	1014	1.32	1073
80	0	0	0	1.134	1.54	924	1.46	972
90	0	0	0	1.134	1.66	853	1.59	893
100	0	0	0	1.134	1.78	796	1.71	830
110	0	0	0	1.134	1.9	748	1.83	777
120	0	0	0	1.134	1.97	721	1.94	733
130	0	0	0	1.134	2.02	701	2.02	703
167	0	0	0	1.134	2.22	639	2.22	641
212	0	0	0	1.134	2.45	580	2.44	582

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.378	5.65	3000	5.65	3000*
20	0	0	0	1.134	4.82	1180	4.74	1199
30	0	0	0	1.134	4.99	1139	4.91	1157
40	0	0	0	1.134	5.16	1102	5.08	1119
50	0	0	0	1.134	5.32	1069	5.24	1085
60	0	0	0	1.134	5.48	1038	5.4	1053
70	0	0	0	1.134	5.63	1010	5.55	1024
80	0	0	0	1.134	5.78	984	5.7	997
90	0	0	0	1.134	5.93	959	5.85	972
100	0	0	0	1.134	6.07	937	5.99	949
110	0	0	0	1.134	6.22	916	6.14	928
120	0	0	0	1.134	6.35	896	6.27	907
130	0	0	0	1.134	6.48	878	6.41	888
167	0	0	0	1.134	6.77	842	6.77	842
212	0	0	0	1.134	7.09	804	7.09	804

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.315

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.378	12.76	3000	12.76	3000*
20	0	0	0	1.134	11.95	1075	11.87	1082
30	0	0	0	1.134	12.11	1060	12.03	1067
40	0	0	0	1.134	12.27	1047	12.19	1053
50	0	0	0	1.134	12.43	1033	12.35	1040
60	0	0	0	1.134	12.59	1021	12.51	1027
70	0	0	0	1.134	12.74	1008	12.66	1015
80	0	0	0	1.134	12.9	996	12.82	1003
90	0	0	0	1.134	13.05	985	12.97	991
100	0	0	0	1.134	13.2	974	13.12	980
110	0	0	0	1.134	13.35	963	13.26	969
120	0	0	0	1.134	13.5	953	13.41	959
130	0	0	0	1.134	13.64	943	13.56	949
167	0	0	0	1.134	14	919	14	919
212	0	0	0	1.134	14.37	896	14.37	896

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.378	22.81	3000	22.81	3000*
20	0	0	0	1.134	22.01	1043	21.93	1047
30	0	0	0	1.134	22.17	1036	22.09	1039
40	0	0	0	1.134	22.32	1029	22.25	1032
50	0	0	0	1.134	22.48	1022	22.4	1025
60	0	0	0	1.134	22.64	1015	22.56	1018
70	0	0	0	1.134	22.8	1008	22.71	1011
80	0	0	0	1.134	22.95	1001	22.87	1005
90	0	0	0	1.134	23.1	995	23.02	998
100	0	0	0	1.134	23.26	988	23.17	992
110	0	0	0	1.134	23.41	982	23.32	986
120	0	0	0	1.134	23.56	976	23.47	979
130	0	0	0	1.134	23.71	970	23.62	973
167	0	0	0	1.134	24.11	954	24.11	954
212	0	0	0	1.134	24.5	940	24.5	940

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.316

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.378	35.91	3000	35.91	3000*
20	0	0	0	1.134	35.11	1029	35.03	1031
30	0	0	0	1.134	35.27	1025	35.19	1027
40	0	0	0	1.134	35.43	1020	35.35	1023
50	0	0	0	1.134	35.58	1016	35.5	1018
60	0	0	0	1.134	35.74	1012	35.66	1014
70	0	0	0	1.134	35.9	1008	35.81	1010
80	0	0	0	1.134	36.05	1003	35.97	1006
90	0	0	0	1.134	36.21	999	36.12	1002
100	0	0	0	1.134	36.36	995	36.28	998
110	0	0	0	1.134	36.51	991	36.43	994
120	0	0	0	1.134	36.67	987	36.58	990
130	0	0	0	1.134	36.82	983	36.73	986
167	0	0	0	1.134	37.24	973	37.24	973
212	0	0	0	1.134	37.64	963	37.64	963

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0
100.00	0-7	0-9	0-10	1-0	1-2	1-4	1-6	1-7	1-9	1-10
125.00	0-11	1-1	1-4	1-7	1-10	2-1	2-3	2-6	2-8	2-10
150.00	1-4	1-7	1-11	2-4	2-8	3-0	3-3	3-7	3-10	4-1
175.00	1-9	2-2	2-8	3-2	3-7	4-1	4-6	4-10	5-3	5-7
200.00	2-4	2-10	3-6	4-1	4-9	5-4	5-10	6-4	6-10	7-4

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
100.00	0-7	0-9	0-11	1-1	1-3	1-5	1-6	1-8	1-9	1-11
125.00	0-11	1-2	1-5	1-9	1-11	2-2	2-5	2-7	2-9	3-0
150.00	1-4	1-9	2-1	2-6	2-10	3-2	3-5	3-9	4-0	4-3
175.00	1-10	2-4	2-10	3-4	3-10	4-3	4-8	5-1	5-6	5-10
200.00	2-5	3-1	3-9	4-5	5-0	5-7	6-2	6-8	7-2	7-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-6
125.00	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-5
150.00	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5
175.00	3-8	3-9	3-11	4-0	4-2	4-3	4-4	4-6	4-7	4-8
200.00	4-9	4-11	5-1	5-3	5-5	5-7	5-8	5-10	6-0	6-2
225.00	6-0	6-3	6-5	6-8	6-10	7-0	7-3	7-5	7-7	7-9
250.00	7-5	7-8	7-11	8-2	8-5	8-8	8-11	9-2	9-4	9-7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7
125.00	1-11	1-11	2-0	2-1	2-2	2-2	2-3	2-4	2-4	2-5
150.00	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6
175.00	3-8	3-10	3-11	4-1	4-2	4-4	4-5	4-6	4-8	4-9
200.00	4-10	5-0	5-2	5-4	5-6	5-8	5-9	5-11	6-1	6-3
225.00	6-1	6-4	6-6	6-9	6-11	7-2	7-4	7-6	7-8	7-10
250.00	7-6	7-10	8-1	8-4	8-7	8-10	9-1	9-3	9-6	9-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.319

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-0	3-0	3-1	3-1	3-1	3-2	3-2	3-3	3-3	3-4
175.00	4-0	4-1	4-2	4-2	4-3	4-4	4-4	4-5	4-5	4-6
200.00	5-3	5-4	5-5	5-6	5-7	5-7	5-8	5-9	5-10	5-11
225.00	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4	7-5
250.00	8-3	8-4	8-6	8-7	8-8	8-9	8-11	9-0	9-1	9-2
275.00	10-0	10-1	10-3	10-4	10-6	10-8	10-9	10-11	11-0	11-2
300.00	11-10	12-0	12-2	12-4	12-6	12-8	12-10	13-0	13-1	13-3
325.00	13-11	14-2	14-4	14-6	14-8	14-10	15-1	15-3	15-5	15-7
350.00	16-2	16-5	16-7	16-10	17-0	17-3	17-6	17-8	17-10	18-1
375.00	18-7	18-10	19-1	19-4	19-7	19-10	20-1	20-3	20-6	20-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-4	3-4
175.00	4-1	4-1	4-2	4-3	4-3	4-4	4-5	4-5	4-6	4-6
200.00	5-4	5-5	5-5	5-6	5-7	5-8	5-9	5-9	5-10	5-11
225.00	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4	7-5	7-6
250.00	8-3	8-5	8-6	8-8	8-9	8-10	8-11	9-1	9-2	9-3
275.00	10-0	10-2	10-4	10-5	10-7	10-8	10-10	11-0	11-1	11-3
300.00	11-11	12-1	12-3	12-5	12-7	12-9	12-11	13-1	13-2	13-4
325.00	14-0	14-3	14-5	14-7	14-9	15-0	15-2	15-4	15-6	15-8
350.00	16-3	16-6	16-9	16-11	17-2	17-4	17-7	17-9	18-0	18-2
375.00	18-8	18-11	19-2	19-5	19-8	19-11	20-2	20-5	20-8	20-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.320

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-6	5-6	5-7	5-7	5-7	5-8	5-8	5-9	5-9	5-10
225.00	6-11	7-0	7-0	7-1	7-1	7-2	7-3	7-3	7-4	7-4
250.00	8-7	8-7	8-8	8-9	8-9	8-10	8-11	9-0	9-0	9-1
275.00	10-4	10-5	10-6	10-7	10-8	10-9	10-9	10-10	10-11	11-0
300.00	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	13-0	13-1
325.00	14-5	14-7	14-8	14-9	14-10	15-0	15-1	15-2	15-3	15-4
350.00	16-9	16-11	17-0	17-2	17-3	17-4	17-6	17-7	17-9	17-10
375.00	19-3	19-5	19-7	19-8	19-10	19-11	20-1	20-3	20-4	20-6
400.00	21-11	22-1	22-3	22-5	22-7	22-9	22-10	23-0	23-2	23-4
425.00	24-9	24-11	25-2	25-4	25-6	25-8	25-10	26-0	26-2	26-4
450.00	27-9	28-0	28-2	28-5	28-7	28-9	29-0	29-2	29-4	29-7
475.00	31-0	31-2	31-5	31-8	31-10	32-1	32-4	32-6	32-9	32-11
500.00	34-4	34-7	34-10	35-1	35-4	35-7	35-10	36-1	36-4	36-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-6	5-6	5-7	5-7	5-8	5-8	5-9	5-9	5-10	5-10
225.00	6-11	7-0	7-1	7-1	7-2	7-2	7-3	7-3	7-4	7-5
250.00	8-7	8-8	8-8	8-9	8-10	8-11	8-11	9-0	9-1	9-1
275.00	10-5	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-0
300.00	12-4	12-5	12-6	12-7	12-9	12-10	12-11	13-0	13-1	13-2
325.00	14-6	14-7	14-9	14-10	14-11	15-0	15-2	15-3	15-4	15-5
350.00	16-10	16-11	17-1	17-2	17-4	17-5	17-7	17-8	17-9	17-11
375.00	19-4	19-6	19-7	19-9	19-11	20-0	20-2	20-4	20-5	20-7
400.00	22-0	22-2	22-4	22-6	22-8	22-10	22-11	23-1	23-3	23-5
425.00	24-10	25-0	25-3	25-5	25-7	25-9	25-11	26-1	26-3	26-5
450.00	27-11	28-1	28-3	28-6	28-8	28-11	29-1	29-3	29-6	29-8
475.00	31-1	31-4	31-6	31-9	32-0	32-2	32-5	32-8	32-10	33-1
500.00	34-6	34-9	35-0	35-3	35-6	35-8	35-11	36-2	36-5	36-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-9	8-9	8-10	8-10	8-10	8-11	8-11	9-0	9-0	9-1
275.00	10-7	10-7	10-8	10-8	10-9	10-9	10-10	10-10	10-11	11-0
300.00	12-7	12-7	12-8	12-9	12-9	12-10	12-11	12-11	13-0	13-1
325.00	14-9	14-10	14-11	14-11	15-0	15-1	15-2	15-2	15-3	15-4
350.00	17-1	17-2	17-3	17-4	17-5	17-6	17-7	17-8	17-9	17-9
375.00	19-8	19-9	19-10	19-11	20-0	20-1	20-2	20-3	20-4	20-5
400.00	22-4	22-6	22-7	22-8	22-9	22-10	23-0	23-1	23-2	23-3
425.00	25-3	25-5	25-6	25-7	25-9	25-10	25-11	26-1	26-2	26-3
450.00	28-4	28-6	28-7	28-9	28-10	29-0	29-1	29-3	29-4	29-6
475.00	31-7	31-9	31-11	32-0	32-2	32-4	32-5	32-7	32-9	32-10
500.00	35-0	35-2	35-4	35-6	35-8	35-10	36-0	36-1	36-3	36-5
525.00	38-8	38-10	39-0	39-2	39-4	39-6	39-8	39-10	40-0	40-2
550.00	42-5	42-8	42-10	43-0	43-2	43-5	43-7	43-9	43-11	44-2
575.00	46-5	46-8	46-10	47-1	47-3	47-6	47-8	47-11	48-1	48-3
600.00	50-7	50-10	51-1	51-3	51-6	51-9	51-11	52-2	52-5	52-7
625.00	54-11	55-2	55-5	55-8	55-11	56-2	56-5	56-8	56-11	57-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-9	8-9	8-10	8-10	8-11	8-11	9-0	9-0	9-1	9-1
275.00	10-7	10-7	10-8	10-9	10-9	10-10	10-10	10-11	10-11	11-0
300.00	12-7	12-8	12-8	12-9	12-10	12-10	12-11	13-0	13-0	13-1
325.00	14-9	14-10	14-11	15-0	15-0	15-1	15-2	15-3	15-4	15-4
350.00	17-2	17-3	17-4	17-5	17-5	17-6	17-7	17-8	17-9	17-10
375.00	19-8	19-9	19-10	19-11	20-1	20-2	20-3	20-4	20-5	20-6
400.00	22-5	22-6	22-7	22-9	22-10	22-11	23-0	23-1	23-3	23-4
425.00	25-4	25-5	25-7	25-8	25-9	25-11	26-0	26-1	26-3	26-4
450.00	28-5	28-6	28-8	28-9	28-11	29-0	29-2	29-3	29-5	29-6
475.00	31-8	31-10	31-11	32-1	32-3	32-4	32-6	32-8	32-10	32-11
500.00	35-1	35-3	35-5	35-7	35-9	35-11	36-1	36-2	36-4	36-6
525.00	38-9	38-11	39-1	39-3	39-5	39-7	39-9	39-11	40-1	40-3
550.00	42-6	42-9	42-11	43-1	43-4	43-6	43-8	43-10	44-1	44-3
575.00	46-6	46-9	46-11	47-2	47-4	47-7	47-9	48-0	48-2	48-5
600.00	50-8	50-11	51-2	51-5	51-7	51-10	52-1	52-4	52-6	52-9
625.00	55-1	55-4	55-7	55-10	56-1	56-4	56-7	56-9	57-0	57-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.322

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	4.25	1000	4.25	1000*
0	0	0	0	1.134	4.1	348	4.09	349
30	0	0	0	1.134	4.27	335	4.26	335
40	0	0	0	1.134	4.32	331	4.31	331
50	0	0	0	1.134	4.37	327	4.36	327
60	0	0	0	1.134	4.42	323	4.41	324
70	0	0	0	1.134	4.46	320	4.46	320
80	0	0	0	1.134	4.5	318	4.5	318
90	0	0	0	1.134	4.53	316	4.53	316
100	0	0	0	1.134	4.56	314	4.56	314
110	0	0	0	1.134	4.59	312	4.59	312
120	0	0	0	1.134	4.62	310	4.62	310
130	0	0	0	1.134	4.65	308	4.65	308
167	0	0	0	1.134	4.75	301	4.75	301
212	0	0	0	1.134	4.88	293	4.88	293

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	17.4	1000	17.4	1000*
0	0	0	0	1.134	17.25	338	17.24	339
30	0	0	0	1.134	17.42	335	17.41	336
40	0	0	0	1.134	17.47	335	17.46	335
50	0	0	0	1.134	17.52	334	17.51	334
60	0	0	0	1.134	17.57	333	17.56	333
70	0	0	0	1.134	17.62	332	17.61	332
80	0	0	0	1.134	17.66	331	17.66	331
90	0	0	0	1.134	17.69	331	17.69	331
100	0	0	0	1.134	17.72	330	17.72	330
110	0	0	0	1.134	17.75	330	17.75	330
120	0	0	0	1.134	17.78	329	17.78	329
130	0	0	0	1.134	17.81	328	17.81	328
167	0	0	0	1.134	17.93	326	17.93	326
212	0	0	0	1.134	18.07	324	18.07	324

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.323

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	3.378	40.83	1000	40.83	1000*
0	0	0	0	1.134	40.68	337	40.67	337
30	0	0	0	1.134	40.84	336	40.84	336
40	0	0	0	1.134	40.9	335	40.89	335
50	0	0	0	1.134	40.95	335	40.94	335
60	0	0	0	1.134	41	335	40.99	335
70	0	0	0	1.134	41.05	334	41.04	334
80	0	0	0	1.134	41.09	334	41.09	334
90	0	0	0	1.134	41.12	334	41.12	334
100	0	0	0	1.134	41.15	333	41.15	333
110	0	0	0	1.134	41.18	333	41.18	333
120	0	0	0	1.134	41.21	333	41.21	333
130	0	0	0	1.134	41.24	333	41.24	333
167	0	0	0	1.134	41.36	332	41.36	332
212	0	0	0	1.134	41.5	331	41.5	331

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	3.378	77.91	1000	77.91	1000*
0	0	0	0	1.134	77.77	336	77.76	336
30	0	0	0	1.134	77.93	336	77.92	336
40	0	0	0	1.134	77.98	336	77.97	336
50	0	0	0	1.134	78.03	335	78.02	335
60	0	0	0	1.134	78.08	335	78.07	335
70	0	0	0	1.134	78.13	335	78.12	335
80	0	0	0	1.134	78.17	335	78.17	335
90	0	0	0	1.134	78.2	335	78.2	335
100	0	0	0	1.134	78.23	335	78.23	335
110	0	0	0	1.134	78.26	335	78.26	335
120	0	0	0	1.134	78.29	335	78.29	335
130	0	0	0	1.134	78.33	334	78.33	334
167	0	0	0	1.134	78.44	334	78.44	334
212	0	0	0	1.134	78.58	334	78.58	334

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.324

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Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	138.56	1000	138.56	1000*
0	0	0	0	1.134	138.41	336	138.41	336
30	0	0	0	1.134	138.57	336	138.56	336
40	0	0	0	1.134	138.62	336	138.61	336
50	0	0	0	1.134	138.67	336	138.66	336
60	0	0	0	1.134	138.72	336	138.71	336
70	0	0	0	1.134	138.77	335	138.76	335
80	0	0	0	1.134	138.81	335	138.81	335
90	0	0	0	1.134	138.84	335	138.84	335
100	0	0	0	1.134	138.87	335	138.87	335
110	0	0	0	1.134	138.9	335	138.9	335
120	0	0	0	1.134	138.93	335	138.93	335
130	0	0	0	1.134	138.96	335	138.96	335
167	0	0	0	1.134	139.07	335	139.07	335
212	0	0	0	1.134	139.21	335	139.21	335

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.325

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-4	2-5	2-5	2-5	2-6	2-6	2-6	2-7	2-7	2-7
100.00	4-2	4-3	4-4	4-4	4-5	4-6	4-6	4-6	4-7	4-7
125.00	6-7	6-8	6-9	6-10	6-11	7-0	7-0	7-1	7-2	7-2
150.00	9-6	9-7	9-9	9-10	10-0	10-1	10-2	10-3	10-4	10-4
175.00	12-11	13-1	13-3	13-5	13-7	13-9	13-10	13-11	14-0	14-2
200.00	16-11	17-2	17-4	17-7	17-9	18-0	18-2	18-3	18-5	18-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-4	2-5	2-5	2-5	2-6	2-6	2-6	2-7	2-7	2-7
100.00	4-3	4-3	4-4	4-4	4-5	4-6	4-6	4-6	4-7	4-7
125.00	6-7	6-8	6-9	6-10	6-11	7-0	7-0	7-1	7-2	7-2
150.00	9-6	9-8	9-9	9-10	10-0	10-1	10-2	10-3	10-4	10-4
175.00	13-0	13-2	13-4	13-5	13-7	13-9	13-10	13-11	14-0	14-2
200.00	17-0	17-2	17-5	17-7	17-10	18-0	18-2	18-3	18-5	18-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.326

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-4	4-4	4-4	4-4	4-4	4-4	4-5	4-5	4-5	4-5
125.00	6-9	6-9	6-9	6-10	6-10	6-10	6-10	6-10	6-11	6-11
150.00	9-9	9-9	9-9	9-10	9-10	9-10	9-11	9-11	9-11	9-11
175.00	13-3	13-4	13-4	13-5	13-5	13-5	13-6	13-6	13-6	13-7
200.00	17-4	17-5	17-6	17-6	17-7	17-7	17-8	17-8	17-9	17-9
225.00	22-0	22-1	22-2	22-3	22-3	22-4	22-5	22-5	22-6	22-6
250.00	27-3	27-4	27-5	27-6	27-7	27-8	27-9	27-10	27-10	27-11

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-4	4-4	4-4	4-4	4-4	4-4	4-5	4-5	4-5	4-5
125.00	6-9	6-9	6-9	6-10	6-10	6-10	6-10	6-10	6-11	6-11
150.00	9-9	9-9	9-9	9-10	9-10	9-10	9-11	9-11	9-11	9-11
175.00	13-3	13-4	13-4	13-5	13-5	13-5	13-6	13-6	13-6	13-7
200.00	17-4	17-5	17-6	17-6	17-7	17-7	17-8	17-8	17-9	17-9
225.00	22-0	22-1	22-2	22-3	22-4	22-4	22-5	22-5	22-6	22-6
250.00	27-3	27-4	27-5	27-6	27-7	27-8	27-9	27-10	27-10	27-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.327

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	10-0	10-0	10-1	10-1	10-1	10-1	10-1	10-1	10-1	10-1
175.00	13-8	13-8	13-8	13-9	13-9	13-9	13-9	13-9	13-9	13-10
200.00	17-11	17-11	17-11	18-0	18-0	18-0	18-0	18-0	18-1	18-1
225.00	22-8	22-9	22-9	22-10	22-10	22-10	22-10	22-11	22-11	22-11
250.00	28-1	28-2	28-2	28-3	28-3	28-4	28-4	28-4	28-4	28-5
275.00	34-2	34-2	34-3	34-3	34-4	34-4	34-5	34-5	34-5	34-6
300.00	40-9	40-10	40-11	40-11	41-0	41-1	41-1	41-1	41-2	41-2
325.00	48-1	48-1	48-2	48-3	48-4	48-4	48-5	48-5	48-6	48-6
350.00	56-0	56-1	56-2	56-2	56-3	56-4	56-5	56-5	56-6	56-6
375.00	64-7	64-8	64-9	64-10	64-11	65-0	65-1	65-1	65-2	65-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	10-0	10-0	10-1	10-1	10-1	10-1	10-1	10-1	10-1	10-1
175.00	13-8	13-8	13-8	13-9	13-9	13-9	13-9	13-9	13-9	13-10
200.00	17-11	17-11	17-11	18-0	18-0	18-0	18-0	18-0	18-1	18-1
225.00	22-9	22-9	22-9	22-10	22-10	22-10	22-10	22-11	22-11	22-11
250.00	28-2	28-2	28-2	28-3	28-3	28-4	28-4	28-4	28-4	28-5
275.00	34-2	34-2	34-3	34-3	34-4	34-4	34-5	34-5	34-5	34-6
300.00	40-10	40-10	40-11	40-11	41-0	41-1	41-1	41-1	41-2	41-2
325.00	48-1	48-2	48-2	48-3	48-4	48-4	48-5	48-5	48-6	48-6
350.00	56-0	56-1	56-2	56-3	56-3	56-4	56-5	56-5	56-6	56-6
375.00	64-7	64-8	64-9	64-10	64-11	65-0	65-1	65-1	65-2	65-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.328

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	18-10	18-10	18-10	18-10	18-10	18-10	18-11	18-11	18-11	18-11
225.00	23-11	23-11	23-11	23-11	23-11	23-11	24-0	24-0	24-0	24-0
250.00	29-7	29-7	29-7	29-8	29-8	29-8	29-8	29-8	29-9	29-9
275.00	35-11	35-11	36-0	36-0	36-0	36-0	36-1	36-1	36-1	36-1
300.00	42-11	43-0	43-0	43-0	43-1	43-1	43-1	43-1	43-2	43-2
325.00	50-7	50-8	50-8	50-9	50-9	50-9	50-10	50-10	50-10	50-10
350.00	59-0	59-0	59-1	59-1	59-2	59-2	59-2	59-3	59-3	59-3
375.00	68-1	68-1	68-2	68-2	68-3	68-3	68-4	68-4	68-5	68-5
400.00	77-10	77-11	78-0	78-0	78-1	78-1	78-2	78-2	78-3	78-3
425.00	88-5	88-6	88-7	88-7	88-8	88-9	88-9	88-10	88-10	88-11
450.00	99-9	99-10	99-11	99-11	100-0	100-1	100-2	100-2	100-3	100-3
475.00	111-11	111-11	112-0	112-1	112-2	112-3	112-4	112-4	112-5	112-6
500.00	124-10	124-11	125-0	125-1	125-2	125-3	125-4	125-5	125-5	125-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	18-10	18-10	18-10	18-10	18-10	18-10	18-11	18-11	18-11	18-11
225.00	23-11	23-11	23-11	23-11	23-11	23-11	24-0	24-0	24-0	24-0
250.00	29-7	29-7	29-7	29-8	29-8	29-8	29-8	29-8	29-9	29-9
275.00	35-11	35-11	36-0	36-0	36-0	36-1	36-1	36-1	36-1	36-1
300.00	42-11	43-0	43-0	43-0	43-1	43-1	43-1	43-1	43-2	43-2
325.00	50-7	50-8	50-8	50-9	50-9	50-9	50-10	50-10	50-10	50-10
350.00	59-0	59-0	59-1	59-1	59-2	59-2	59-2	59-3	59-3	59-3
375.00	68-1	68-1	68-2	68-2	68-3	68-3	68-4	68-4	68-5	68-5
400.00	77-11	77-11	78-0	78-0	78-1	78-2	78-2	78-2	78-3	78-3
425.00	88-5	88-6	88-7	88-7	88-8	88-9	88-9	88-10	88-10	88-11
450.00	99-9	99-10	99-11	100-0	100-0	100-1	100-2	100-2	100-3	100-3
475.00	111-11	112-0	112-1	112-1	112-2	112-3	112-4	112-4	112-5	112-6
500.00	124-10	124-11	125-0	125-1	125-2	125-3	125-4	125-5	125-5	125-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.329

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	32-6	32-6	32-6	32-6	32-6	32-6	32-7	32-7	32-7	32-7
275.00	39-6	39-6	39-6	39-6	39-6	39-7	39-7	39-7	39-7	39-7
300.00	47-3	47-3	47-3	47-3	47-3	47-4	47-4	47-4	47-4	47-4
325.00	55-9	55-9	55-9	55-9	55-9	55-10	55-10	55-10	55-10	55-10
350.00	65-0	65-0	65-0	65-1	65-1	65-1	65-1	65-2	65-2	65-2
375.00	75-1	75-1	75-1	75-2	75-2	75-2	75-3	75-3	75-3	75-3
400.00	86-0	86-0	86-0	86-1	86-1	86-1	86-2	86-2	86-2	86-2
425.00	97-9	97-9	97-10	97-10	97-11	97-11	97-11	98-0	98-0	98-0
450.00	110-5	110-5	110-6	110-6	110-7	110-7	110-8	110-8	110-8	110-8
475.00	124-0	124-0	124-1	124-1	124-2	124-2	124-3	124-3	124-3	124-4
500.00	138-6	138-7	138-7	138-8	138-9	138-9	138-10	138-10	138-10	138-11
525.00	154-1	154-1	154-2	154-3	154-3	154-4	154-4	154-5	154-5	154-6
550.00	170-7	170-8	170-9	170-10	170-10	170-11	171-0	171-0	171-1	171-1
575.00	188-3	188-4	188-5	188-6	188-6	188-7	188-8	188-8	188-9	188-10
600.00	207-0	207-1	207-2	207-3	207-4	207-5	207-6	207-6	207-7	207-7
625.00	226-11	227-0	227-2	227-3	227-4	227-5	227-6	227-6	227-7	227-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	32-6	32-6	32-6	32-6	32-6	32-6	32-7	32-7	32-7	32-7
275.00	39-6	39-6	39-6	39-6	39-6	39-7	39-7	39-7	39-7	39-7
300.00	47-3	47-3	47-3	47-3	47-3	47-4	47-4	47-4	47-4	47-4
325.00	55-9	55-9	55-9	55-9	55-9	55-10	55-10	55-10	55-10	55-10
350.00	65-0	65-0	65-0	65-1	65-1	65-1	65-1	65-2	65-2	65-2
375.00	75-1	75-1	75-1	75-2	75-2	75-2	75-3	75-3	75-3	75-3
400.00	86-0	86-0	86-0	86-1	86-1	86-1	86-2	86-2	86-2	86-2
425.00	97-9	97-9	97-10	97-10	97-11	97-11	97-11	98-0	98-0	98-0
450.00	110-5	110-5	110-6	110-6	110-7	110-7	110-8	110-8	110-8	110-8
475.00	124-0	124-0	124-1	124-1	124-2	124-2	124-3	124-3	124-3	124-4
500.00	138-6	138-7	138-7	138-8	138-9	138-9	138-10	138-10	138-10	138-11
525.00	154-1	154-1	154-2	154-3	154-3	154-4	154-4	154-5	154-5	154-6
550.00	170-7	170-8	170-9	170-10	170-10	170-11	171-0	171-0	171-1	171-1
575.00	188-3	188-4	188-5	188-6	188-7	188-7	188-8	188-8	188-9	188-10
600.00	207-0	207-1	207-2	207-3	207-4	207-5	207-6	207-6	207-7	207-7
625.00	227-0	227-1	227-2	227-3	227-4	227-5	227-6	227-6	227-7	227-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.330

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	3.378	2.82	1500	2.82	1500*
0	0	0	0	1.134	2.57	553	2.55	557
30	0	0	0	1.134	2.82	504	2.8	508
40	0	0	0	1.134	2.9	491	2.88	494
50	0	0	0	1.134	2.97	479	2.95	482
60	0	0	0	1.134	3.04	467	3.02	470
70	0	0	0	1.134	3.11	457	3.09	460
80	0	0	0	1.134	3.18	447	3.16	450
90	0	0	0	1.134	3.23	440	3.23	440
100	0	0	0	1.134	3.27	435	3.27	435
110	0	0	0	1.134	3.31	430	3.31	430
120	0	0	0	1.134	3.35	425	3.35	425
130	0	0	0	1.134	3.39	420	3.39	420
167	0	0	0	1.134	3.53	404	3.53	404
212	0	0	0	1.134	3.69	386	3.69	386

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	3.378	11.41	1500	11.41	1500*
0	0	0	0	1.134	11.16	515	11.14	515
30	0	0	0	1.134	11.4	504	11.38	505
40	0	0	0	1.134	11.48	500	11.46	501
50	0	0	0	1.134	11.56	497	11.54	498
60	0	0	0	1.134	11.63	494	11.61	495
70	0	0	0	1.134	11.71	491	11.69	492
80	0	0	0	1.134	11.79	488	11.76	489
90	0	0	0	1.134	11.84	485	11.84	486
100	0	0	0	1.134	11.9	483	11.9	483
110	0	0	0	1.134	11.95	481	11.95	481
120	0	0	0	1.134	11.99	480	11.99	480
130	0	0	0	1.134	12.04	478	12.04	478
167	0	0	0	1.134	12.2	472	12.2	472
212	0	0	0	1.134	12.4	464	12.4	464

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.331

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Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	26.1	1500	26.1	1500*
0	0	0	0	1.134	25.85	508	25.83	509
30	0	0	0	1.134	26.1	504	26.08	504
40	0	0	0	1.134	26.17	502	26.16	503
50	0	0	0	1.134	26.25	501	26.23	501
60	0	0	0	1.134	26.33	499	26.31	500
70	0	0	0	1.134	26.41	498	26.39	498
80	0	0	0	1.134	26.48	497	26.46	497
90	0	0	0	1.134	26.55	496	26.54	496
100	0	0	0	1.134	26.61	495	26.61	495
110	0	0	0	1.134	26.66	494	26.66	494
120	0	0	0	1.134	26.7	493	26.7	493
130	0	0	0	1.134	26.75	492	26.75	492
167	0	0	0	1.134	26.92	489	26.92	489
212	0	0	0	1.134	27.13	486	27.13	486

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	47.6	1500	47.6	1500*
0	0	0	0	1.134	47.35	506	47.33	506
30	0	0	0	1.134	47.59	504	47.57	504
40	0	0	0	1.134	47.67	503	47.65	503
50	0	0	0	1.134	47.75	502	47.73	502
60	0	0	0	1.134	47.83	501	47.81	502
70	0	0	0	1.134	47.9	501	47.88	501
80	0	0	0	1.134	47.98	500	47.96	500
90	0	0	0	1.134	48.05	499	48.04	500
100	0	0	0	1.134	48.11	499	48.11	499
110	0	0	0	1.134	48.15	498	48.15	498
120	0	0	0	1.134	48.2	498	48.2	498
130	0	0	0	1.134	48.25	498	48.25	498
167	0	0	0	1.134	48.42	496	48.42	496
212	0	0	0	1.134	48.63	494	48.63	494

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.332

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	77.11	1500	77.11	1500*
0	0	0	0	1.134	76.86	505	76.84	505
30	0	0	0	1.134	77.11	504	77.09	504
40	0	0	0	1.134	77.18	503	77.16	503
50	0	0	0	1.134	77.26	503	77.24	503
60	0	0	0	1.134	77.34	502	77.32	503
70	0	0	0	1.134	77.41	502	77.39	502
80	0	0	0	1.134	77.49	502	77.47	502
90	0	0	0	1.134	77.56	501	77.55	501
100	0	0	0	1.134	77.62	501	77.62	501
110	0	0	0	1.134	77.67	501	77.67	501
120	0	0	0	1.134	77.71	500	77.71	500
130	0	0	0	1.134	77.76	500	77.76	500
167	0	0	0	1.134	77.93	499	77.93	499
212	0	0	0	1.134	78.15	498	78.15	498

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.333

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-6	1-7	1-7	1-8	1-8	1-9	1-9	1-10	1-10	1-10
100.00	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-3	3-3	3-4
125.00	4-3	4-5	4-6	4-7	4-9	4-10	4-11	5-1	5-1	5-2
150.00	6-2	6-4	6-6	6-8	6-10	7-0	7-2	7-3	7-5	7-6
175.00	8-4	8-7	8-10	9-1	9-3	9-6	9-9	9-11	10-1	10-2
200.00	10-11	11-3	11-7	11-10	12-2	12-5	12-8	13-0	13-2	13-4

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-6	1-7	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10
100.00	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-3	3-4
125.00	4-3	4-5	4-6	4-8	4-9	4-10	5-0	5-1	5-1	5-2
150.00	6-2	6-4	6-6	6-8	6-10	7-0	7-2	7-3	7-5	7-6
175.00	8-5	8-8	8-11	9-1	9-4	9-7	9-9	9-11	10-1	10-2
200.00	11-0	11-4	11-7	11-11	12-3	12-6	12-9	13-0	13-2	13-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.334

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-10	2-10	2-10	2-10	2-11	2-11	2-11	2-11	3-0	3-0
125.00	4-5	4-5	4-6	4-6	4-6	4-7	4-7	4-7	4-8	4-8
150.00	6-4	6-5	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-8
175.00	8-8	8-8	8-9	8-10	8-11	8-11	9-0	9-1	9-1	9-2
200.00	11-4	11-5	11-6	11-6	11-7	11-8	11-9	11-10	11-11	11-11
225.00	14-4	14-5	14-6	14-7	14-9	14-10	14-11	15-0	15-1	15-2
250.00	17-8	17-10	17-11	18-1	18-2	18-4	18-5	18-7	18-8	18-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-10	2-10	2-10	2-11	2-11	2-11	2-11	2-11	3-0	3-0
125.00	4-5	4-5	4-6	4-6	4-6	4-7	4-7	4-7	4-8	4-8
150.00	6-4	6-5	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-8
175.00	8-8	8-9	8-9	8-10	8-11	8-11	9-0	9-1	9-1	9-2
200.00	11-4	11-5	11-6	11-7	11-8	11-9	11-9	11-10	11-11	11-11
225.00	14-4	14-5	14-7	14-8	14-9	14-10	14-11	15-0	15-1	15-2
250.00	17-9	17-10	18-0	18-1	18-3	18-4	18-6	18-7	18-8	18-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.335

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-5	6-6	6-6	6-6	6-6	6-7	6-7	6-7	6-7	6-7
175.00	8-9	8-10	8-10	8-10	8-11	8-11	8-11	9-0	9-0	9-0
200.00	11-6	11-6	11-7	11-7	11-8	11-8	11-8	11-9	11-9	11-9
225.00	14-7	14-7	14-8	14-8	14-9	14-9	14-10	14-10	14-11	14-11
250.00	18-0	18-1	18-1	18-2	18-3	18-3	18-4	18-4	18-5	18-5
275.00	21-10	21-11	21-11	22-0	22-1	22-2	22-2	22-3	22-4	22-4
300.00	26-0	26-1	26-2	26-3	26-4	26-5	26-6	26-6	26-7	26-8
325.00	30-7	30-8	30-9	30-10	30-11	31-0	31-1	31-2	31-3	31-4
350.00	35-6	35-7	35-9	35-10	35-11	36-1	36-2	36-3	36-4	36-5
375.00	40-10	41-0	41-1	41-3	41-4	41-6	41-7	41-8	41-10	41-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-5	6-6	6-6	6-6	6-6	6-7	6-7	6-7	6-7	6-7
175.00	8-10	8-10	8-10	8-10	8-11	8-11	8-11	9-0	9-0	9-0
200.00	11-6	11-6	11-7	11-7	11-8	11-8	11-8	11-9	11-9	11-9
225.00	14-7	14-7	14-8	14-8	14-9	14-9	14-10	14-10	14-11	14-11
250.00	18-0	18-1	18-1	18-2	18-3	18-3	18-4	18-5	18-5	18-5
275.00	21-10	21-11	22-0	22-0	22-1	22-2	22-3	22-3	22-4	22-4
300.00	26-0	26-1	26-2	26-3	26-4	26-5	26-6	26-7	26-7	26-8
325.00	30-7	30-8	30-9	30-10	30-11	31-1	31-2	31-3	31-3	31-4
350.00	35-6	35-8	35-9	35-10	36-0	36-1	36-2	36-3	36-4	36-5
375.00	40-11	41-0	41-2	41-3	41-4	41-6	41-7	41-9	41-10	41-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.336

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-9	11-9	11-9	11-9	11-9	11-10	11-10	11-10	11-10	11-10
225.00	14-10	14-10	14-11	14-11	14-11	15-0	15-0	15-0	15-0	15-1
250.00	18-4	18-5	18-5	18-5	18-6	18-6	18-6	18-7	18-7	18-7
275.00	22-3	22-3	22-4	22-4	22-5	22-5	22-5	22-6	22-6	22-6
300.00	26-6	26-7	26-7	26-8	26-8	26-9	26-9	26-10	26-10	26-10
325.00	31-2	31-3	31-3	31-4	31-4	31-5	31-6	31-6	31-7	31-7
350.00	36-3	36-3	36-4	36-5	36-5	36-6	36-7	36-7	36-8	36-8
375.00	41-8	41-9	41-9	41-10	41-11	42-0	42-1	42-1	42-2	42-3
400.00	47-6	47-7	47-8	47-9	47-10	47-11	48-0	48-0	48-1	48-2
425.00	53-9	53-10	53-11	54-0	54-1	54-2	54-3	54-4	54-5	54-6
450.00	60-5	60-6	60-7	60-8	60-10	60-11	61-0	61-1	61-2	61-3
475.00	67-6	67-7	67-8	67-10	67-11	68-0	68-2	68-3	68-4	68-5
500.00	75-0	75-1	75-3	75-4	75-6	75-7	75-9	75-10	75-11	76-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-9	11-9	11-9	11-9	11-10	11-10	11-10	11-10	11-10	11-10
225.00	14-10	14-10	14-11	14-11	14-11	15-0	15-0	15-0	15-0	15-1
250.00	18-4	18-5	18-5	18-5	18-6	18-6	18-6	18-7	18-7	18-7
275.00	22-3	22-3	22-4	22-4	22-5	22-5	22-6	22-6	22-6	22-6
300.00	26-6	26-7	26-7	26-8	26-8	26-9	26-9	26-10	26-10	26-10
325.00	31-2	31-3	31-3	31-4	31-5	31-5	31-6	31-6	31-7	31-7
350.00	36-3	36-3	36-4	36-5	36-6	36-6	36-7	36-8	36-8	36-8
375.00	41-8	41-9	41-10	41-10	41-11	42-0	42-1	42-2	42-2	42-3
400.00	47-6	47-7	47-8	47-9	47-10	47-11	48-0	48-1	48-1	48-2
425.00	53-9	53-10	53-11	54-0	54-1	54-2	54-4	54-4	54-5	54-6
450.00	60-5	60-6	60-8	60-9	60-10	60-11	61-0	61-1	61-2	61-3
475.00	67-6	67-7	67-9	67-10	67-11	68-1	68-2	68-3	68-4	68-5
500.00	75-0	75-2	75-3	75-5	75-6	75-8	75-9	75-10	75-11	76-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.337

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	18-10	18-10	18-10	18-11	18-11	18-11	18-11	18-11	19-0	19-0
275.00	22-10	22-10	22-10	22-11	22-11	22-11	22-11	23-0	23-0	23-0
300.00	27-2	27-3	27-3	27-3	27-4	27-4	27-4	27-5	27-5	27-5
325.00	32-0	32-0	32-1	32-1	32-1	32-2	32-2	32-2	32-3	32-3
350.00	37-2	37-2	37-3	37-3	37-4	37-4	37-5	37-5	37-5	37-6
375.00	42-9	42-10	42-10	42-11	42-11	43-0	43-0	43-1	43-1	43-1
400.00	48-9	48-10	48-10	48-11	48-11	49-0	49-1	49-1	49-2	49-2
425.00	55-2	55-3	55-4	55-4	55-5	55-5	55-6	55-7	55-7	55-8
450.00	62-0	62-1	62-2	62-3	62-3	62-4	62-5	62-5	62-6	62-7
475.00	69-4	69-4	69-5	69-6	69-7	69-8	69-9	69-9	69-10	69-11
500.00	77-0	77-1	77-2	77-3	77-4	77-5	77-6	77-7	77-7	77-8
525.00	85-2	85-3	85-4	85-5	85-6	85-7	85-8	85-9	85-10	85-11
550.00	93-9	93-10	93-11	94-1	94-2	94-3	94-4	94-5	94-6	94-7
575.00	102-10	102-11	103-0	103-2	103-3	103-4	103-5	103-7	103-8	103-9
600.00	112-4	112-6	112-7	112-8	112-10	112-11	113-0	113-2	113-3	113-4
625.00	122-4	122-6	122-7	122-9	122-10	123-0	123-1	123-3	123-4	123-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	18-10	18-10	18-10	18-11	18-11	18-11	18-11	18-11	19-0	19-0
275.00	22-10	22-10	22-10	22-11	22-11	22-11	22-11	23-0	23-0	23-0
300.00	27-2	27-3	27-3	27-3	27-4	27-4	27-4	27-5	27-5	27-5
325.00	32-0	32-0	32-1	32-1	32-1	32-2	32-2	32-2	32-3	32-3
350.00	37-2	37-3	37-3	37-3	37-4	37-4	37-5	37-5	37-5	37-6
375.00	42-9	42-10	42-10	42-11	42-11	43-0	43-0	43-1	43-1	43-1
400.00	48-9	48-10	48-10	48-11	49-0	49-0	49-1	49-1	49-2	49-2
425.00	55-2	55-3	55-4	55-4	55-5	55-6	55-6	55-7	55-7	55-8
450.00	62-1	62-1	62-2	62-3	62-3	62-4	62-5	62-6	62-6	62-7
475.00	69-4	69-5	69-5	69-6	69-7	69-8	69-9	69-9	69-10	69-11
500.00	77-0	77-1	77-2	77-3	77-4	77-5	77-6	77-7	77-7	77-8
525.00	85-2	85-3	85-4	85-5	85-6	85-7	85-8	85-9	85-10	85-11
550.00	93-9	93-11	94-0	94-1	94-2	94-3	94-4	94-5	94-6	94-7
575.00	102-10	102-11	103-1	103-2	103-3	103-4	103-6	103-7	103-8	103-9
600.00	112-4	112-6	112-7	112-9	112-10	112-11	113-1	113-2	113-3	113-4
625.00	122-5	122-6	122-8	122-9	122-11	123-0	123-2	123-3	123-4	123-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.338

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	2.11	2000	2.11	2000*
0	0	0	0	1.134	1.74	816	1.71	832
30	0	0	0	1.134	2.07	684	2.04	696
40	0	0	0	1.134	2.18	653	2.14	663
50	0	0	0	1.134	2.27	625	2.24	635
60	0	0	0	1.134	2.36	601	2.33	610
70	0	0	0	1.134	2.45	579	2.42	587
80	0	0	0	1.134	2.54	559	2.51	567
90	0	0	0	1.134	2.62	542	2.59	549
100	0	0	0	1.134	2.67	532	2.67	532
110	0	0	0	1.134	2.73	522	2.73	522
120	0	0	0	1.134	2.77	513	2.77	513
130	0	0	0	1.134	2.81	505	2.81	505
167	0	0	0	1.134	2.98	478	2.98	478
212	0	0	0	1.134	3.16	450	3.16	450

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	8.51	2000	8.51	2000*
0	0	0	0	1.134	8.14	701	8.1	704
30	0	0	0	1.134	8.46	675	8.43	677
40	0	0	0	1.134	8.57	667	8.53	669
50	0	0	0	1.134	8.67	659	8.63	662
60	0	0	0	1.134	8.77	651	8.73	654
70	0	0	0	1.134	8.87	644	8.83	647
80	0	0	0	1.134	8.97	637	8.93	640
90	0	0	0	1.134	9.07	630	9.03	633
100	0	0	0	1.134	9.16	624	9.13	626
110	0	0	0	1.134	9.22	620	9.22	620
120	0	0	0	1.134	9.29	615	9.29	615
130	0	0	0	1.134	9.35	612	9.35	612
167	0	0	0	1.134	9.55	599	9.55	599
212	0	0	0	1.134	9.8	584	9.8	584

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.339

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	19.31	2000	19.31	2000*
0	0	0	0	1.134	18.95	684	18.92	685
30	0	0	0	1.134	19.27	673	19.24	674
40	0	0	0	1.134	19.38	669	19.34	671
50	0	0	0	1.134	19.48	666	19.44	667
60	0	0	0	1.134	19.58	663	19.55	664
70	0	0	0	1.134	19.69	659	19.65	660
80	0	0	0	1.134	19.79	656	19.75	657
90	0	0	0	1.134	19.89	653	19.85	654
100	0	0	0	1.134	19.99	650	19.95	651
110	0	0	0	1.134	20.06	647	20.05	648
120	0	0	0	1.134	20.14	645	20.14	645
130	0	0	0	1.134	20.2	643	20.2	643
167	0	0	0	1.134	20.42	636	20.42	636
212	0	0	0	1.134	20.68	628	20.68	628

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	34.8	2000	34.8	2000*
0	0	0	0	1.134	34.44	678	34.4	679
30	0	0	0	1.134	34.76	672	34.72	673
40	0	0	0	1.134	34.86	670	34.83	671
50	0	0	0	1.134	34.97	668	34.93	669
60	0	0	0	1.134	35.07	667	35.03	667
70	0	0	0	1.134	35.17	665	35.14	665
80	0	0	0	1.134	35.28	663	35.24	664
90	0	0	0	1.134	35.38	661	35.34	662
100	0	0	0	1.134	35.48	659	35.44	660
110	0	0	0	1.134	35.56	658	35.54	658
120	0	0	0	1.134	35.64	657	35.64	657
130	0	0	0	1.134	35.7	656	35.7	656
167	0	0	0	1.134	35.93	652	35.93	652
212	0	0	0	1.134	36.2	647	36.2	647

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.340

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	55.37	2000	55.37	2000*
0	0	0	0	1.134	55.01	675	54.98	676
30	0	0	0	1.134	55.33	672	55.3	672
40	0	0	0	1.134	55.44	671	55.4	671
50	0	0	0	1.134	55.54	670	55.5	670
60	0	0	0	1.134	55.64	669	55.61	669
70	0	0	0	1.134	55.75	667	55.71	668
80	0	0	0	1.134	55.85	666	55.81	667
90	0	0	0	1.134	55.95	665	55.91	666
100	0	0	0	1.134	56.06	664	56.02	665
110	0	0	0	1.134	56.14	663	56.12	663
120	0	0	0	1.134	56.22	662	56.22	662
130	0	0	0	1.134	56.28	662	56.28	662
167	0	0	0	1.134	56.51	659	56.51	659
212	0	0	0	1.134	56.79	656	56.79	656

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-5	1-6	1-6
100.00	1-11	2-0	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
125.00	3-0	3-2	3-4	3-6	3-8	3-9	3-11	4-1	4-2	4-3
150.00	4-4	4-7	4-10	5-0	5-3	5-5	5-8	5-10	6-0	6-2
175.00	5-11	6-3	6-7	6-10	7-2	7-5	7-8	7-11	8-2	8-4
200.00	7-9	8-2	8-7	9-0	9-4	9-8	10-1	10-5	10-9	10-11

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-1	1-2	1-3	1-3	1-4	1-5	1-5	1-6	1-6	1-6
100.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
125.00	3-1	3-3	3-5	3-7	3-8	3-10	4-0	4-1	4-2	4-3
150.00	4-5	4-8	4-11	5-1	5-4	5-6	5-9	5-11	6-0	6-2
175.00	6-0	6-4	6-8	7-0	7-3	7-6	7-10	8-1	8-2	8-4
200.00	7-11	8-4	8-9	9-1	9-6	9-10	10-2	10-6	10-9	10-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.342

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-1	2-1	2-2	2-2	2-2	2-2	2-3	2-3	2-3	2-4
125.00	3-3	3-3	3-4	3-4	3-5	3-5	3-6	3-6	3-7	3-7
150.00	4-8	4-9	4-10	4-10	4-11	5-0	5-0	5-1	5-2	5-2
175.00	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1
200.00	8-4	8-5	8-6	8-8	8-9	8-10	8-11	9-0	9-2	9-3
225.00	10-7	10-8	10-10	10-11	11-1	11-2	11-4	11-5	11-7	11-8
250.00	13-0	13-2	13-4	13-6	13-8	13-10	14-0	14-2	14-3	14-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-1	2-1	2-2	2-2	2-2	2-3	2-3	2-3	2-3	2-4
125.00	3-3	3-4	3-4	3-5	3-5	3-6	3-6	3-6	3-7	3-7
150.00	4-8	4-9	4-10	4-10	4-11	5-0	5-0	5-1	5-2	5-2
175.00	6-5	6-6	6-7	6-8	6-9	6-9	6-10	6-11	7-0	7-1
200.00	8-4	8-6	8-7	8-8	8-9	8-10	9-0	9-1	9-2	9-3
225.00	10-7	10-9	10-10	11-0	11-1	11-3	11-4	11-6	11-7	11-8
250.00	13-1	13-3	13-5	13-7	13-9	13-11	14-0	14-2	14-4	14-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.343

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-9	4-9	4-10	4-10	4-10	4-11	4-11	4-11	5-0	5-0
175.00	6-6	6-6	6-7	6-7	6-8	6-8	6-8	6-9	6-9	6-10
200.00	8-6	8-6	8-7	8-7	8-8	8-8	8-9	8-10	8-10	8-11
225.00	10-9	10-10	10-10	10-11	11-0	11-0	11-1	11-2	11-2	11-3
250.00	13-3	13-4	13-5	13-6	13-7	13-7	13-8	13-9	13-10	13-11
275.00	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-10
300.00	19-2	19-3	19-4	19-5	19-7	19-8	19-9	19-10	19-11	20-1
325.00	22-6	22-7	22-9	22-10	23-0	23-1	23-2	23-4	23-5	23-7
350.00	26-1	26-3	26-5	26-6	26-8	26-10	26-11	27-1	27-3	27-4
375.00	30-0	30-2	30-4	30-6	30-8	30-10	30-11	31-1	31-3	31-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-9	4-10	4-10	4-10	4-11	4-11	4-11	4-11	5-0	5-0
175.00	6-6	6-6	6-7	6-7	6-8	6-8	6-8	6-9	6-9	6-10
200.00	8-6	8-6	8-7	8-8	8-8	8-9	8-9	8-10	8-10	8-11
225.00	10-9	10-10	10-10	10-11	11-0	11-1	11-1	11-2	11-3	11-3
250.00	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-9	13-10	13-11
275.00	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-10
300.00	19-2	19-3	19-5	19-6	19-7	19-8	19-9	19-11	20-0	20-1
325.00	22-6	22-8	22-9	22-11	23-0	23-2	23-3	23-4	23-6	23-7
350.00	26-2	26-3	26-5	26-7	26-9	26-10	27-0	27-2	27-3	27-4
375.00	30-1	30-2	30-4	30-6	30-8	30-10	31-0	31-2	31-4	31-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.344

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-9	8-10	8-10
225.00	10-11	10-11	10-11	11-0	11-0	11-0	11-1	11-1	11-2	11-2
250.00	13-5	13-6	13-6	13-7	13-7	13-8	13-8	13-9	13-9	13-10
275.00	16-3	16-4	16-5	16-5	16-6	16-6	16-7	16-7	16-8	16-9
300.00	19-5	19-5	19-6	19-7	19-7	19-8	19-9	19-9	19-10	19-11
325.00	22-9	22-10	22-11	23-0	23-1	23-1	23-2	23-3	23-4	23-5
350.00	26-5	26-6	26-7	26-8	26-9	26-10	26-11	27-0	27-1	27-2
375.00	30-5	30-6	30-7	30-8	30-9	30-10	30-11	31-0	31-1	31-2
400.00	34-7	34-9	34-10	34-11	35-0	35-2	35-3	35-4	35-5	35-7
425.00	39-2	39-3	39-4	39-6	39-7	39-9	39-10	39-11	40-1	40-2
450.00	43-11	44-1	44-2	44-4	44-5	44-7	44-9	44-10	45-0	45-1
475.00	49-0	49-2	49-4	49-6	49-7	49-9	49-11	50-1	50-2	50-4
500.00	54-5	54-7	54-9	54-11	55-1	55-3	55-4	55-6	55-8	55-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-7	8-8	8-8	8-8	8-8	8-9	8-9	8-9	8-10	8-10
225.00	10-11	10-11	10-11	11-0	11-0	11-1	11-1	11-1	11-2	11-2
250.00	13-5	13-6	13-6	13-7	13-7	13-8	13-8	13-9	13-9	13-10
275.00	16-4	16-4	16-5	16-5	16-6	16-6	16-7	16-8	16-8	16-9
300.00	19-5	19-6	19-6	19-7	19-8	19-8	19-9	19-10	19-10	19-11
325.00	22-10	22-10	22-11	23-0	23-1	23-2	23-2	23-3	23-4	23-5
350.00	26-6	26-7	26-8	26-9	26-9	26-10	26-11	27-0	27-1	27-2
375.00	30-5	30-6	30-7	30-8	30-9	30-11	31-0	31-1	31-2	31-3
400.00	34-8	34-9	34-10	35-0	35-1	35-2	35-3	35-5	35-6	35-7
425.00	39-2	39-3	39-5	39-6	39-8	39-9	39-11	40-0	40-1	40-2
450.00	44-0	44-1	44-3	44-4	44-6	44-8	44-9	44-11	45-0	45-2
475.00	49-1	49-3	49-4	49-6	49-8	49-10	49-11	50-1	50-3	50-4
500.00	54-5	54-7	54-9	54-11	55-1	55-3	55-5	55-7	55-9	55-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.345

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	13-8	13-8	13-8	13-9	13-9	13-9	13-9	13-10	13-10	13-10
275.00	16-6	16-7	16-7	16-7	16-8	16-8	16-8	16-9	16-9	16-9
300.00	19-8	19-8	19-9	19-9	19-10	19-10	19-11	19-11	19-11	20-0
325.00	23-1	23-2	23-2	23-3	23-3	23-4	23-4	23-5	23-5	23-6
350.00	26-10	26-11	26-11	27-0	27-0	27-1	27-1	27-2	27-3	27-3
375.00	30-10	30-11	30-11	31-0	31-1	31-1	31-2	31-3	31-3	31-4
400.00	35-2	35-2	35-3	35-4	35-5	35-5	35-6	35-7	35-8	35-8
425.00	39-8	39-9	39-10	39-11	40-0	40-1	40-2	40-3	40-3	40-4
450.00	44-7	44-8	44-9	44-10	44-11	45-0	45-1	45-2	45-3	45-4
475.00	49-9	49-10	49-11	50-0	50-1	50-2	50-4	50-5	50-6	50-7
500.00	55-2	55-4	55-5	55-6	55-7	55-9	55-10	55-11	56-0	56-1
525.00	60-11	61-1	61-2	61-4	61-5	61-6	61-8	61-9	61-10	62-0
550.00	67-0	67-2	67-3	67-5	67-6	67-8	67-9	67-11	68-0	68-2
575.00	73-4	73-6	73-8	73-9	73-11	74-1	74-2	74-4	74-6	74-7
600.00	80-0	80-2	80-4	80-6	80-8	80-9	80-11	81-1	81-3	81-5
625.00	87-0	87-2	87-4	87-6	87-8	87-10	88-0	88-2	88-4	88-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	13-8	13-8	13-8	13-9	13-9	13-9	13-10	13-10	13-10	13-10
275.00	16-6	16-7	16-7	16-7	16-8	16-8	16-8	16-9	16-9	16-9
300.00	19-8	19-9	19-9	19-10	19-10	19-10	19-11	19-11	20-0	20-0
325.00	23-1	23-2	23-3	23-3	23-4	23-4	23-5	23-5	23-6	23-6
350.00	26-10	26-11	26-11	27-0	27-1	27-1	27-2	27-2	27-3	27-3
375.00	30-10	30-11	31-0	31-0	31-1	31-2	31-2	31-3	31-4	31-4
400.00	35-2	35-3	35-3	35-4	35-5	35-6	35-6	35-7	35-8	35-9
425.00	39-9	39-10	39-11	39-11	40-0	40-1	40-2	40-3	40-4	40-5
450.00	44-7	44-8	44-9	44-10	44-11	45-0	45-1	45-2	45-3	45-4
475.00	49-9	49-10	49-11	50-1	50-2	50-3	50-4	50-5	50-6	50-7
500.00	55-3	55-4	55-5	55-6	55-8	55-9	55-10	55-11	56-1	56-2
525.00	61-0	61-1	61-3	61-4	61-5	61-7	61-8	61-9	61-11	62-0
550.00	67-1	67-2	67-4	67-5	67-7	67-8	67-10	67-11	68-1	68-2
575.00	73-5	73-7	73-8	73-10	74-0	74-1	74-3	74-5	74-6	74-8
600.00	80-1	80-3	80-5	80-6	80-8	80-10	81-0	81-2	81-4	81-5
625.00	87-1	87-3	87-5	87-7	87-9	87-11	88-1	88-3	88-5	88-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.346

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	1.69	2500	1.69	2500*
0	0	0	0	1.134	1.17	1208	1.12	1262
30	0	0	0	1.134	1.6	888	1.54	919
40	0	0	0	1.134	1.72	824	1.67	851
50	0	0	0	1.134	1.84	772	1.79	795
60	0	0	0	1.134	1.95	728	1.9	748
70	0	0	0	1.134	2.06	691	2	708
80	0	0	0	1.134	2.16	658	2.11	674
90	0	0	0	1.134	2.25	630	2.2	644
100	0	0	0	1.134	2.33	609	2.3	618
110	0	0	0	1.134	2.39	595	2.39	595
120	0	0	0	1.134	2.44	582	2.44	582
130	0	0	0	1.134	2.49	571	2.49	571
167	0	0	0	1.134	2.66	534	2.66	534
212	0	0	0	1.134	2.87	496	2.87	496

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	6.79	2500	6.79	2500*
0	0	0	0	1.134	6.29	905	6.23	913
30	0	0	0	1.134	6.69	851	6.63	858
40	0	0	0	1.134	6.82	835	6.76	842
50	0	0	0	1.134	6.95	820	6.89	827
60	0	0	0	1.134	7.07	806	7.01	812
70	0	0	0	1.134	7.19	792	7.14	799
80	0	0	0	1.134	7.31	779	7.26	786
90	0	0	0	1.134	7.43	767	7.37	773
100	0	0	0	1.134	7.55	755	7.49	761
110	0	0	0	1.134	7.66	744	7.6	750
120	0	0	0	1.134	7.74	737	7.72	739
130	0	0	0	1.134	7.82	729	7.82	729
167	0	0	0	1.134	8.06	708	8.06	708
212	0	0	0	1.134	8.34	684	8.34	684

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.347

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Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	15.36	2500	15.36	2500*
0	0	0	0	1.134	14.87	867	14.81	870
30	0	0	0	1.134	15.26	845	15.21	848
40	0	0	0	1.134	15.39	838	15.33	841
50	0	0	0	1.134	15.52	831	15.46	834
60	0	0	0	1.134	15.65	824	15.59	827
70	0	0	0	1.134	15.77	818	15.72	821
80	0	0	0	1.134	15.9	811	15.84	814
90	0	0	0	1.134	16.03	805	15.96	808
100	0	0	0	1.134	16.15	799	16.09	802
110	0	0	0	1.134	16.27	793	16.21	796
120	0	0	0	1.134	16.38	788	16.33	790
130	0	0	0	1.134	16.45	785	16.45	785
167	0	0	0	1.134	16.74	772	16.74	772
212	0	0	0	1.134	17.06	758	17.06	758

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	27.53	2500	27.53	2500*
0	0	0	0	1.134	27.04	854	26.98	856
30	0	0	0	1.134	27.44	842	27.38	844
40	0	0	0	1.134	27.57	838	27.51	840
50	0	0	0	1.134	27.7	835	27.64	836
60	0	0	0	1.134	27.82	831	27.77	833
70	0	0	0	1.134	27.95	827	27.89	829
80	0	0	0	1.134	28.08	824	28.02	825
90	0	0	0	1.134	28.21	820	28.15	822
100	0	0	0	1.134	28.33	817	28.27	818
110	0	0	0	1.134	28.46	813	28.4	815
120	0	0	0	1.134	28.58	810	28.52	811
130	0	0	0	1.134	28.66	808	28.65	808
167	0	0	0	1.134	28.96	800	28.96	800
212	0	0	0	1.134	29.29	791	29.29	791

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.348

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	43.5	2500	43.5	2500*
0	0	0	0	1.134	43.01	848	42.95	849
30	0	0	0	1.134	43.4	841	43.35	842
40	0	0	0	1.134	43.53	839	43.48	840
50	0	0	0	1.134	43.66	836	43.61	837
60	0	0	0	1.134	43.79	834	43.73	835
70	0	0	0	1.134	43.92	832	43.86	833
80	0	0	0	1.134	44.05	830	43.99	831
90	0	0	0	1.134	44.18	827	44.12	828
100	0	0	0	1.134	44.31	825	44.24	826
110	0	0	0	1.134	44.43	823	44.37	824
120	0	0	0	1.134	44.56	821	44.5	822
130	0	0	0	1.134	44.64	819	44.62	820
167	0	0	0	1.134	44.95	814	44.95	814
212	0	0	0	1.134	45.29	808	45.29	808

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.349

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-10	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-4
100.00	1-5	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-4	2-5
125.00	2-2	2-5	2-7	2-9	3-0	3-2	3-4	3-5	3-7	3-9
150.00	3-2	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-2	5-5
175.00	4-4	4-9	5-1	5-6	5-10	6-2	6-6	6-9	7-1	7-4
200.00	5-8	6-2	6-8	7-2	7-7	8-0	8-5	8-10	9-3	9-7

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-3	1-4	1-4
100.00	1-6	1-7	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5
125.00	2-3	2-6	2-8	2-10	3-1	3-3	3-4	3-6	3-8	3-9
150.00	3-4	3-7	3-11	4-2	4-5	4-8	4-10	5-1	5-3	5-5
175.00	4-6	4-11	5-3	5-8	6-0	6-4	6-7	6-11	7-2	7-4
200.00	5-10	6-5	6-11	7-4	7-10	8-3	8-8	9-0	9-4	9-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.350

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-7	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-11
125.00	2-6	2-7	2-8	2-8	2-9	2-9	2-10	2-11	2-11	3-0
150.00	3-8	3-9	3-10	3-10	3-11	4-0	4-1	4-2	4-3	4-3
175.00	5-0	5-1	5-2	5-3	5-4	5-6	5-7	5-8	5-9	5-10
200.00	6-6	6-8	6-9	6-11	7-0	7-2	7-3	7-4	7-6	7-7
225.00	8-3	8-5	8-7	8-9	8-11	9-0	9-2	9-4	9-6	9-8
250.00	10-2	10-4	10-7	10-9	11-0	11-2	11-4	11-6	11-9	11-11

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-8	1-8	1-9	1-9	1-10	1-10	1-10	1-11	1-11
125.00	2-7	2-7	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0
150.00	3-8	3-9	3-10	3-11	4-0	4-1	4-1	4-2	4-3	4-4
175.00	5-0	5-1	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10
200.00	6-7	6-8	6-10	6-11	7-1	7-2	7-4	7-5	7-7	7-8
225.00	8-4	8-6	8-8	8-10	8-11	9-1	9-3	9-5	9-7	9-8
250.00	10-3	10-6	10-8	10-10	11-1	11-3	11-5	11-7	11-10	12-0

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STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.351

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-9	3-9	3-10	3-10	3-11	3-11	3-11	4-0	4-0	4-0
175.00	5-1	5-2	5-2	5-3	5-4	5-4	5-5	5-5	5-6	5-6
200.00	6-8	6-9	6-10	6-10	6-11	7-0	7-0	7-1	7-2	7-2
225.00	8-6	8-6	8-7	8-8	8-9	8-10	8-11	9-0	9-0	9-1
250.00	10-5	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2	11-3
275.00	12-8	12-9	12-11	13-0	13-1	13-2	13-4	13-5	13-6	13-7
300.00	15-1	15-2	15-4	15-6	15-7	15-9	15-10	16-0	16-1	16-3
325.00	17-8	17-10	18-0	18-2	18-4	18-5	18-7	18-9	18-11	19-0
350.00	20-7	20-9	20-11	21-1	21-3	21-5	21-7	21-9	21-11	22-1
375.00	23-7	23-10	24-0	24-2	24-5	24-7	24-10	25-0	25-2	25-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-9	3-10	3-10	3-10	3-11	3-11	4-0	4-0	4-0	4-1
175.00	5-2	5-2	5-3	5-3	5-4	5-4	5-5	5-5	5-6	5-6
200.00	6-9	6-9	6-10	6-11	6-11	7-0	7-1	7-1	7-2	7-3
225.00	8-6	8-7	8-8	8-9	8-9	8-10	8-11	9-0	9-1	9-2
250.00	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2	11-3
275.00	12-8	12-10	12-11	13-0	13-2	13-3	13-4	13-5	13-7	13-8
300.00	15-2	15-3	15-5	15-6	15-8	15-9	15-11	16-0	16-2	16-3
325.00	17-9	17-11	18-1	18-3	18-5	18-6	18-8	18-10	19-0	19-1
350.00	20-7	20-10	21-0	21-2	21-4	21-6	21-8	21-10	22-0	22-2
375.00	23-8	23-11	24-1	24-4	24-6	24-8	24-11	25-1	25-3	25-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.352

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-9	6-10	6-10	6-11	6-11	6-11	7-0	7-0	7-0	7-1
225.00	8-7	8-8	8-8	8-8	8-9	8-9	8-10	8-10	8-11	8-11
250.00	10-7	10-8	10-8	10-9	10-10	10-10	10-11	10-11	11-0	11-1
275.00	12-10	12-11	13-0	13-0	13-1	13-2	13-2	13-3	13-4	13-5
300.00	15-3	15-4	15-5	15-6	15-7	15-8	15-9	15-9	15-10	15-11
325.00	17-11	18-0	18-1	18-2	18-3	18-4	18-5	18-6	18-7	18-8
350.00	20-10	20-11	21-0	21-2	21-3	21-4	21-5	21-6	21-7	21-8
375.00	23-11	24-1	24-2	24-3	24-5	24-6	24-7	24-9	24-10	24-11
400.00	27-3	27-5	27-6	27-8	27-9	27-11	28-0	28-2	28-3	28-5
425.00	30-9	30-11	31-1	31-3	31-4	31-6	31-8	31-10	31-11	32-1
450.00	34-7	34-9	34-10	35-0	35-2	35-4	35-6	35-8	35-10	36-0
475.00	38-6	38-8	38-11	39-1	39-3	39-5	39-7	39-10	40-0	40-2
500.00	42-9	42-11	43-2	43-4	43-6	43-9	43-11	44-2	44-4	44-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-10	6-10	6-10	6-11	6-11	6-11	7-0	7-0	7-1	7-1
225.00	8-7	8-8	8-8	8-9	8-9	8-10	8-10	8-11	8-11	9-0
250.00	10-8	10-8	10-9	10-9	10-10	10-11	10-11	11-0	11-0	11-1
275.00	12-10	12-11	13-0	13-1	13-1	13-2	13-3	13-3	13-4	13-5
300.00	15-4	15-5	15-6	15-6	15-7	15-8	15-9	15-10	15-11	16-0
325.00	18-0	18-1	18-2	18-3	18-4	18-5	18-6	18-7	18-8	18-9
350.00	20-11	21-0	21-1	21-2	21-3	21-4	21-6	21-7	21-8	21-9
375.00	24-0	24-1	24-3	24-4	24-5	24-7	24-8	24-9	24-11	25-0
400.00	27-4	27-5	27-7	27-8	27-10	27-11	28-1	28-2	28-4	28-6
425.00	30-10	31-0	31-2	31-3	31-5	31-7	31-9	31-10	32-0	32-2
450.00	34-7	34-9	34-11	35-1	35-3	35-5	35-7	35-9	35-11	36-1
475.00	38-7	38-9	39-0	39-2	39-4	39-6	39-8	39-11	40-1	40-3
500.00	42-10	43-0	43-3	43-5	43-8	43-10	44-0	44-3	44-5	44-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.353

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-9	10-9	10-9	10-10	10-10	10-11	10-11	10-11	11-0	11-0
275.00	13-0	13-0	13-1	13-1	13-2	13-2	13-3	13-3	13-3	13-4
300.00	15-6	15-6	15-7	15-7	15-8	15-8	15-9	15-9	15-10	15-10
325.00	18-2	18-3	18-3	18-4	18-4	18-5	18-6	18-6	18-7	18-8
350.00	21-1	21-2	21-2	21-3	21-4	21-5	21-5	21-6	21-7	21-8
375.00	24-2	24-3	24-4	24-5	24-6	24-7	24-8	24-8	24-9	24-10
400.00	27-7	27-8	27-9	27-10	27-11	28-0	28-1	28-2	28-3	28-4
425.00	31-2	31-3	31-4	31-5	31-6	31-7	31-8	31-9	31-11	32-0
450.00	34-11	35-1	35-2	35-3	35-4	35-6	35-7	35-8	35-9	35-10
475.00	39-0	39-1	39-2	39-4	39-5	39-7	39-8	39-9	39-11	40-0
500.00	43-3	43-4	43-6	43-7	43-9	43-10	44-0	44-1	44-3	44-4
525.00	47-8	47-10	48-0	48-1	48-3	48-5	48-7	48-8	48-10	49-0
550.00	52-5	52-7	52-9	52-10	53-0	53-2	53-4	53-6	53-8	53-10
575.00	57-4	57-6	57-8	57-10	58-0	58-2	58-4	58-6	58-8	58-10
600.00	62-6	62-8	62-11	63-1	63-3	63-5	63-8	63-10	64-0	64-2
625.00	67-11	68-1	68-4	68-6	68-9	68-11	69-2	69-4	69-6	69-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-9	10-9	10-10	10-10	10-10	10-11	10-11	11-0	11-0	11-0
275.00	13-0	13-0	13-1	13-1	13-2	13-2	13-3	13-3	13-4	13-4
300.00	15-6	15-6	15-7	15-7	15-8	15-9	15-9	15-10	15-10	15-11
325.00	18-2	18-3	18-3	18-4	18-5	18-5	18-6	18-7	18-7	18-8
350.00	21-1	21-2	21-3	21-3	21-4	21-5	21-6	21-6	21-7	21-8
375.00	24-3	24-4	24-5	24-5	24-6	24-7	24-8	24-9	24-10	24-11
400.00	27-7	27-8	27-9	27-10	27-11	28-0	28-1	28-2	28-3	28-4
425.00	31-2	31-3	31-4	31-6	31-7	31-8	31-9	31-10	31-11	32-0
450.00	35-0	35-1	35-2	35-4	35-5	35-6	35-7	35-9	35-10	35-11
475.00	39-0	39-2	39-3	39-4	39-6	39-7	39-9	39-10	39-11	40-1
500.00	43-3	43-5	43-6	43-8	43-10	43-11	44-1	44-2	44-4	44-5
525.00	47-9	47-11	48-1	48-2	48-4	48-6	48-7	48-9	48-11	49-0
550.00	52-6	52-8	52-9	52-11	53-1	53-3	53-5	53-7	53-9	53-11
575.00	57-5	57-7	57-9	57-11	58-1	58-3	58-5	58-7	58-9	59-0
600.00	62-7	62-9	63-0	63-2	63-4	63-6	63-9	63-11	64-1	64-3
625.00	68-0	68-2	68-5	68-7	68-10	69-0	69-3	69-5	69-8	69-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	1.41	3000	1.41	3000*
0	0	0	0	1.134	0.76	1867	0.72	1980
30	0	0	0	1.134	1.25	1135	1.17	1208
40	0	0	0	1.134	1.4	1017	1.32	1075
50	0	0	0	1.134	1.53	926	1.46	974
60	0	0	0	1.134	1.66	855	1.59	895
70	0	0	0	1.134	1.78	797	1.71	831
80	0	0	0	1.134	1.89	749	1.82	778
90	0	0	0	1.134	2	709	1.93	734
100	0	0	0	1.134	2.11	674	2.04	696
110	0	0	0	1.134	2.17	656	2.14	664
120	0	0	0	1.134	2.22	639	2.22	639
130	0	0	0	1.134	2.27	625	2.27	625
167	0	0	0	1.134	2.46	578	2.46	578
212	0	0	0	1.134	2.67	532	2.67	532

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	5.65	3000	5.65	3000*
0	0	0	0	1.134	4.99	1139	4.91	1158
30	0	0	0	1.134	5.48	1038	5.4	1054
40	0	0	0	1.134	5.63	1010	5.55	1025
50	0	0	0	1.134	5.78	984	5.7	998
60	0	0	0	1.134	5.93	959	5.85	973
70	0	0	0	1.134	6.07	937	5.99	950
80	0	0	0	1.134	6.22	916	6.13	928
90	0	0	0	1.134	6.35	896	6.27	908
100	0	0	0	1.134	6.49	877	6.41	889
110	0	0	0	1.134	6.62	860	6.54	871
120	0	0	0	1.134	6.75	844	6.67	854
130	0	0	0	1.134	6.83	834	6.8	838
167	0	0	0	1.134	7.11	801	7.11	801
212	0	0	0	1.134	7.42	768	7.42	768

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.355

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Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	12.76	3000	12.76	3000*
0	0	0	0	1.134	12.11	1060	12.03	1068
30	0	0	0	1.134	12.59	1021	12.5	1027
40	0	0	0	1.134	12.74	1008	12.66	1015
50	0	0	0	1.134	12.9	996	12.81	1003
60	0	0	0	1.134	13.05	985	12.96	991
70	0	0	0	1.134	13.2	974	13.11	980
80	0	0	0	1.134	13.35	963	13.26	969
90	0	0	0	1.134	13.5	953	13.41	959
100	0	0	0	1.134	13.64	943	13.55	949
110	0	0	0	1.134	13.79	933	13.7	939
120	0	0	0	1.134	13.93	924	13.84	930
130	0	0	0	1.134	14.07	915	13.98	920
167	0	0	0	1.134	14.4	894	14.4	894
212	0	0	0	1.134	14.76	873	14.76	873

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	22.81	3000	22.81	3000*
0	0	0	0	1.134	22.17	1036	22.08	1040
30	0	0	0	1.134	22.64	1015	22.56	1018
40	0	0	0	1.134	22.8	1008	22.71	1012
50	0	0	0	1.134	22.95	1001	22.87	1005
60	0	0	0	1.134	23.1	995	23.02	998
70	0	0	0	1.134	23.26	988	23.17	992
80	0	0	0	1.134	23.41	982	23.32	986
90	0	0	0	1.134	23.56	976	23.47	980
100	0	0	0	1.134	23.71	970	23.62	974
110	0	0	0	1.134	23.86	964	23.77	968
120	0	0	0	1.134	24.01	958	23.92	962
130	0	0	0	1.134	24.16	953	24.06	956
167	0	0	0	1.134	24.53	939	24.53	939
212	0	0	0	1.134	24.92	924	24.92	924

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.356

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	35.91	3000	35.91	3000*
0	0	0	0	1.134	35.27	1025	35.19	1027
30	0	0	0	1.134	35.74	1012	35.66	1014
40	0	0	0	1.134	35.9	1008	35.81	1010
50	0	0	0	1.134	36.05	1003	35.97	1006
60	0	0	0	1.134	36.21	999	36.12	1002
70	0	0	0	1.134	36.36	995	36.27	998
80	0	0	0	1.134	36.51	991	36.42	994
90	0	0	0	1.134	36.67	987	36.58	990
100	0	0	0	1.134	36.82	983	36.73	986
110	0	0	0	1.134	36.97	980	36.88	982
120	0	0	0	1.134	37.12	976	37.03	978
130	0	0	0	1.134	37.27	972	37.18	974
167	0	0	0	1.134	37.67	962	37.67	962
212	0	0	0	1.134	38.07	952	38.07	952

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.357

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2
100.00	1-0	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-0	2-2
125.00	1-7	1-10	2-1	2-3	2-6	2-8	2-10	3-0	3-2	3-4
150.00	2-4	2-8	3-0	3-3	3-7	3-10	4-1	4-4	4-7	4-10
175.00	3-2	3-7	4-1	4-6	4-10	5-3	5-7	5-11	6-3	6-7
200.00	4-1	4-8	5-3	5-10	6-4	6-10	7-4	7-9	8-2	8-7

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3
100.00	1-1	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-1	2-2
125.00	1-8	1-11	2-2	2-5	2-7	2-9	3-0	3-2	3-4	3-5
150.00	2-6	2-10	3-2	3-5	3-9	4-0	4-3	4-6	4-9	4-11
175.00	3-4	3-10	4-3	4-8	5-1	5-5	5-10	6-2	6-6	6-8
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.358

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-8
125.00	2-1	2-1	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-7
150.00	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
175.00	4-0	4-2	4-3	4-4	4-6	4-7	4-8	4-10	4-11	5-0
200.00	5-3	5-5	5-7	5-8	5-10	6-0	6-2	6-3	6-5	6-6
225.00	6-8	6-10	7-0	7-3	7-5	7-7	7-9	7-11	8-1	8-3
250.00	8-2	8-5	8-8	8-11	9-2	9-4	9-7	9-10	10-0	10-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-7	1-8
125.00	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-6	2-6	2-7
150.00	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
175.00	4-1	4-2	4-4	4-5	4-6	4-8	4-9	4-10	5-0	5-1
200.00	5-4	5-6	5-8	5-9	5-11	6-1	6-3	6-4	6-6	6-7
225.00	6-9	6-11	7-2	7-4	7-6	7-8	7-10	8-1	8-3	8-5
250.00	8-4	8-7	8-10	9-1	9-3	9-6	9-9	9-11	10-2	10-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.359

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-1	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5
175.00	4-2	4-3	4-4	4-4	4-5	4-5	4-6	4-7	4-7	4-8
200.00	5-6	5-7	5-7	5-8	5-9	5-10	5-11	5-11	6-0	6-1
225.00	6-11	7-0	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8
250.00	8-7	8-8	8-9	8-11	9-0	9-1	9-2	9-4	9-5	9-6
275.00	10-4	10-6	10-8	10-9	10-11	11-0	11-2	11-3	11-5	11-6
300.00	12-4	12-6	12-8	12-10	13-0	13-1	13-3	13-5	13-7	13-8
325.00	14-6	14-8	14-10	15-1	15-3	15-5	15-7	15-9	15-11	16-1
350.00	16-10	17-0	17-3	17-5	17-8	17-10	18-1	18-3	18-6	18-8
375.00	19-4	19-7	19-10	20-1	20-3	20-6	20-9	21-0	21-3	21-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-4	3-5	3-5
175.00	4-3	4-3	4-4	4-5	4-5	4-6	4-6	4-7	4-8	4-8
200.00	5-6	5-7	5-8	5-9	5-9	5-10	5-11	6-0	6-1	6-1
225.00	7-0	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8	7-9
250.00	8-8	8-9	8-10	8-11	9-1	9-2	9-3	9-4	9-6	9-7
275.00	10-5	10-7	10-8	10-10	11-0	11-1	11-3	11-4	11-5	11-7
300.00	12-5	12-7	12-9	12-11	13-1	13-2	13-4	13-6	13-8	13-9
325.00	14-7	14-9	15-0	15-2	15-4	15-6	15-8	15-10	16-0	16-2
350.00	16-11	17-2	17-4	17-7	17-9	18-0	18-2	18-5	18-7	18-9
375.00	19-5	19-8	19-11	20-2	20-5	20-8	20-11	21-1	21-4	21-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.360

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-7	5-7	5-8	5-8	5-9	5-9	5-10	5-10	5-11	5-11
225.00	7-1	7-1	7-2	7-3	7-3	7-4	7-4	7-5	7-5	7-6
250.00	8-9	8-9	8-10	8-11	9-0	9-0	9-1	9-2	9-2	9-3
275.00	10-7	10-8	10-9	10-9	10-10	10-11	11-0	11-1	11-2	11-2
300.00	12-7	12-8	12-9	12-10	12-11	13-0	13-1	13-2	13-3	13-4
325.00	14-9	14-10	15-0	15-1	15-2	15-3	15-4	15-6	15-7	15-8
350.00	17-2	17-3	17-4	17-6	17-7	17-9	17-10	17-11	18-1	18-2
375.00	19-8	19-10	19-11	20-1	20-3	20-4	20-6	20-7	20-9	20-11
400.00	22-5	22-7	22-9	22-10	23-0	23-2	23-4	23-6	23-7	23-9
425.00	25-4	25-6	25-8	25-10	26-0	26-2	26-4	26-6	26-8	26-10
450.00	28-5	28-7	28-9	29-0	29-2	29-4	29-7	29-9	29-11	30-1
475.00	31-8	31-10	32-1	32-4	32-6	32-9	32-11	33-2	33-4	33-7
500.00	35-1	35-4	35-7	35-10	36-1	36-4	36-6	36-9	37-0	37-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-7	5-8	5-8	5-9	5-9	5-10	5-10	5-10	5-11	5-11
225.00	7-1	7-2	7-2	7-3	7-3	7-4	7-5	7-5	7-6	7-6
250.00	8-9	8-10	8-11	8-11	9-0	9-1	9-1	9-2	9-3	9-4
275.00	10-7	10-8	10-9	10-10	10-11	11-0	11-0	11-1	11-2	11-3
300.00	12-7	12-9	12-10	12-11	13-0	13-1	13-2	13-3	13-4	13-5
325.00	14-10	14-11	15-0	15-2	15-3	15-4	15-5	15-6	15-8	15-9
350.00	17-2	17-4	17-5	17-7	17-8	17-9	17-11	18-0	18-2	18-3
375.00	19-9	19-11	20-0	20-2	20-4	20-5	20-7	20-8	20-10	21-0
400.00	22-6	22-8	22-10	22-11	23-1	23-3	23-5	23-7	23-9	23-10
425.00	25-5	25-7	25-9	25-11	26-1	26-3	26-5	26-7	26-9	26-11
450.00	28-6	28-8	28-11	29-1	29-3	29-6	29-8	29-10	30-1	30-3
475.00	31-9	32-0	32-2	32-5	32-8	32-10	33-1	33-3	33-6	33-9
500.00	35-3	35-6	35-8	35-11	36-2	36-5	36-8	36-11	37-2	37-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-10	8-10	8-11	8-11	9-0	9-0	9-1	9-1	9-2	9-2
275.00	10-8	10-9	10-9	10-10	10-10	10-11	11-0	11-0	11-1	11-1
300.00	12-9	12-9	12-10	12-11	12-11	13-0	13-1	13-1	13-2	13-3
325.00	14-11	15-0	15-1	15-2	15-2	15-3	15-4	15-5	15-5	15-6
350.00	17-4	17-5	17-6	17-7	17-8	17-9	17-9	17-10	17-11	18-0
375.00	19-11	20-0	20-1	20-2	20-3	20-4	20-5	20-6	20-7	20-8
400.00	22-8	22-9	22-10	23-0	23-1	23-2	23-3	23-4	23-5	23-7
425.00	25-7	25-9	25-10	25-11	26-1	26-2	26-3	26-5	26-6	26-7
450.00	28-9	28-10	29-0	29-1	29-3	29-4	29-6	29-7	29-9	29-10
475.00	32-0	32-2	32-4	32-5	32-7	32-9	32-10	33-0	33-1	33-3
500.00	35-6	35-8	35-10	36-0	36-1	36-3	36-5	36-7	36-9	36-11
525.00	39-2	39-4	39-6	39-8	39-10	40-0	40-2	40-4	40-6	40-8
550.00	43-0	43-2	43-5	43-7	43-9	43-11	44-2	44-4	44-6	44-8
575.00	47-1	47-3	47-6	47-8	47-10	48-1	48-3	48-6	48-8	48-11
600.00	51-3	51-6	51-9	51-11	52-2	52-5	52-7	52-10	53-1	53-3
625.00	55-8	55-11	56-2	56-5	56-8	56-11	57-2	57-5	57-7	57-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-10	8-11	8-11	9-0	9-0	9-1	9-1	9-1	9-2	9-2
275.00	10-9	10-9	10-10	10-10	10-11	10-11	11-0	11-0	11-1	11-2
300.00	12-9	12-10	12-10	12-11	13-0	13-0	13-1	13-2	13-2	13-3
325.00	15-0	15-0	15-1	15-2	15-3	15-4	15-4	15-5	15-6	15-7
350.00	17-5	17-5	17-6	17-7	17-8	17-9	17-10	17-11	18-0	18-1
375.00	19-11	20-1	20-2	20-3	20-4	20-5	20-6	20-7	20-8	20-9
400.00	22-9	22-10	22-11	23-0	23-1	23-3	23-4	23-5	23-6	23-7
425.00	25-8	25-9	25-11	26-0	26-1	26-3	26-4	26-5	26-7	26-8
450.00	28-9	28-11	29-0	29-2	29-3	29-5	29-6	29-8	29-9	29-11
475.00	32-1	32-3	32-4	32-6	32-8	32-10	32-11	33-1	33-2	33-4
500.00	35-7	35-9	35-11	36-1	36-2	36-4	36-6	36-8	36-10	37-0
525.00	39-3	39-5	39-7	39-9	39-11	40-1	40-3	40-5	40-7	40-9
550.00	43-1	43-4	43-6	43-8	43-10	44-1	44-3	44-5	44-7	44-10
575.00	47-2	47-4	47-7	47-9	48-0	48-2	48-5	48-7	48-10	49-0
600.00	51-5	51-7	51-10	52-1	52-4	52-6	52-9	53-0	53-2	53-5
625.00	55-10	56-1	56-4	56-7	56-9	57-0	57-3	57-6	57-9	58-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.362

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR #2 - 5/2 AWAC CONDUCTOR.

G.O. 95 LIGHT LOADING CONDITION
- 1200 LB TENSION ---------- 814.2
- 1600 LB TENSION ---------- 814.10

G.O. 95 HEAVY LOADING CONDITION
- 1600 LB TENSION ---------- 814.18
- 1800 LB TENSION ---------- 814.26

SDG&E EXTRA HEAVY LOADING CONDITION
- 1600 LB TENSION ---------- 814.34
- 1800 LB TENSION ---------- 814.42

65 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1200 LB TENSION ---------- 814.50
- 1600 LB TENSION ---------- 814.58

65 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1600 LB TENSION ---------- 814.66
- 1800 LB TENSION ---------- 814.74

85 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1200 LB TENSION ---------- 814.82
- 1600 LB TENSION ---------- 814.90

85 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1600 LB TENSION ---------- 814.98
- 1800 LB TENSION ---------- 814.106

111 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1200 LB TENSION ---------- 814.114
- 1600 LB TENSION ---------- 814.122

111 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1600 LB TENSION ---------- 814.130
- 1800 LB TENSION ---------- 814.138

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

#2 - 5/2 AWAC TABLE OF CONTENTS

OH814.1

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.246	0.30	1018	0.26	1200*
25	0	0	0	0.111	0.14	1002	0.12	1192
30	0	0	0	0.111	0.15	953	0.12	1156
40	0	0	0	0.111	0.16	856	0.13	1085
50	0	0	0	0.111	0.18	760	0.14	1013
60	0	0	0	0.111	0.21	664	0.15	939
70	0	0	0	0.111	0.24	570	0.16	865
80	0	0	0	0.111	0.29	477	0.18	790
90	0	0	0	0.111	0.36	389	0.19	715
100	0	0	0	0.111	0.45	307	0.22	639
110	0	0	0	0.111	0.58	238	0.25	562
120	0	0	0	0.111	0.74	187	0.29	487
130	0	0	0	0.111	0.92	151	0.34	412
167	0	0	0	0.111	1.50	93	0.74	188
212	0	0	0	0.111	2.04	68	1.44	96

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.246	1.19	1038	1.03	1200*
25	0	0	0	0.111	0.57	979	0.48	1167
30	0	0	0	0.111	0.60	932	0.49	1132
40	0	0	0	0.111	0.66	838	0.52	1062
50	0	0	0	0.111	0.74	747	0.56	990
60	0	0	0	0.111	0.84	657	0.60	918
70	0	0	0	0.111	0.97	572	0.66	846
80	0	0	0	0.111	1.13	492	0.72	773
90	0	0	0	0.111	1.32	420	0.79	701
100	0	0	0	0.111	1.55	358	0.88	630
110	0	0	0	0.111	1.81	307	0.99	560
120	0	0	0	0.111	2.08	267	1.13	493
130	0	0	0	0.111	2.36	235	1.29	431
167	0	0	0	0.111	3.31	168	2.13	260
212	0	0	0	0.111	4.29	130	3.27	170

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.246	2.61	1064	2.31	1200*
25	0	0	0	0.111	1.33	942	1.11	1128
30	0	0	0	0.111	1.39	898	1.14	1093
40	0	0	0	0.111	1.54	810	1.22	1024
50	0	0	0	0.111	1.72	726	1.31	954
60	0	0	0	0.111	1.93	647	1.41	885
70	0	0	0	0.111	2.18	574	1.53	816
80	0	0	0	0.111	2.46	507	1.67	748
90	0	0	0	0.111	2.78	450	1.83	682
100	0	0	0	0.111	3.12	400	2.02	618
110	0	0	0	0.111	3.48	359	2.24	557
120	0	0	0	0.111	3.84	325	2.49	501
130	0	0	0	0.111	4.20	298	2.77	450
167	0	0	0	0.111	5.46	229	3.98	314
212	0	0	0	0.111	6.80	184	5.47	229

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.246	4.52	1090	4.11	1200*
25	0	0	0	0.111	2.48	895	2.07	1075
30	0	0	0	0.111	2.60	854	2.13	1041
40	0	0	0	0.111	2.86	776	2.28	975
50	0	0	0	0.111	3.16	702	2.44	908
60	0	0	0	0.111	3.50	635	2.63	843
70	0	0	0	0.111	3.87	574	2.85	780
80	0	0	0	0.111	4.27	520	3.09	718
90	0	0	0	0.111	4.69	474	3.37	660
100	0	0	0	0.111	5.12	434	3.67	605
110	0	0	0	0.111	5.56	399	4.01	554
120	0	0	0	0.111	6.00	370	4.37	508
130	0	0	0	0.111	6.43	345	4.75	467
167	0	0	0	0.111	7.95	280	6.26	355
212	0	0	0	0.111	9.60	232	8.04	276

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.3

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.246	6.93	1112	6.42	1200*
25	0	0	0	0.111	4.12	842	3.43	1012
30	0	0	0	0.111	4.30	806	3.54	980
40	0	0	0	0.111	4.69	739	3.78	917
50	0	0	0	0.111	5.12	678	4.05	856
60	0	0	0	0.111	5.58	622	4.35	798
70	0	0	0	0.111	6.06	573	4.68	741
80	0	0	0	0.111	6.56	529	5.04	688
90	0	0	0	0.111	7.06	492	5.43	639
100	0	0	0	0.111	7.57	458	5.85	593
110	0	0	0	0.111	8.08	430	6.29	552
120	0	0	0	0.111	8.58	405	6.75	514
130	0	0	0	0.111	9.08	383	7.22	481
167	0	0	0	0.111	10.82	321	8.98	387
212	0	0	0	0.111	12.74	273	11.02	315

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	1-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-4
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-7
125.00	0-2	0-3	0-3	0-3	0-4	0-5	0-5	0-7	0-8	0-11
150.00	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-4
175.00	0-5	0-5	0-6	0-7	0-8	0-9	0-11	1-1	1-5	1-9
200.00	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-5	1-10	2-4

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5
150.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9
200.00	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-11	1-0
225.00	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-3
250.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-3	1-5	1-7

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-5
125.00	0-3	0-3	0-3	0-3	0-4	0-5	0-5	0-6	0-7	0-8
150.00	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	1-0
175.00	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-5
200.00	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-4	1-7	1-10
225.00	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-8	2-0	2-3
250.00	0-10	0-11	1-0	1-2	1-4	1-6	1-9	2-1	2-5	2-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.6

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9
200.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0
225.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-2	1-3
250.00	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7
275.00	0-11	1-0	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-11
300.00	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-3
325.00	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-8
350.00	1-6	1-7	1-8	1-9	1-11	2-1	2-3	2-6	2-9	3-1
375.00	1-8	1-9	1-11	2-1	2-2	2-5	2-7	2-10	3-2	3-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10
175.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-2
200.00	0-7	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-5	1-7
225.00	0-9	0-9	0-10	1-0	1-1	1-3	1-5	1-7	1-9	1-11
250.00	0-11	1-0	1-1	1-2	1-4	1-6	1-9	1-11	2-2	2-5
275.00	1-1	1-2	1-4	1-5	1-7	1-10	2-1	2-4	2-7	2-11
300.00	1-3	1-5	1-6	1-9	1-11	2-2	2-6	2-9	3-1	3-6
325.00	1-6	1-8	1-10	2-0	2-3	2-7	2-11	3-3	3-8	4-1
350.00	1-9	1-11	2-1	2-4	2-8	3-0	3-4	3-9	4-3	4-9
375.00	2-0	2-2	2-5	2-8	3-0	3-5	3-10	4-4	4-11	5-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0
225.00	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3
250.00	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-4	1-5	1-7
275.00	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-11
300.00	1-2	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3
325.00	1-4	1-5	1-6	1-7	1-9	1-11	2-0	2-3	2-5	2-8
350.00	1-6	1-8	1-9	1-10	2-0	2-2	2-4	2-7	2-10	3-1
375.00	1-9	1-10	2-0	2-2	2-4	2-6	2-9	2-11	3-3	3-6
400.00	2-0	2-2	2-3	2-5	2-8	2-10	3-1	3-4	3-8	4-0
425.00	2-3	2-5	2-7	2-9	3-0	3-3	3-6	3-10	4-2	4-6
450.00	2-6	2-8	2-11	3-1	3-4	3-7	3-11	4-3	4-8	5-1
475.00	2-10	3-0	3-3	3-5	3-9	4-0	4-4	4-9	5-2	5-8
500.00	3-2	3-4	3-7	3-10	4-1	4-5	4-10	5-3	5-9	6-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-7	0-8	0-9	0-9	0-10	1-0	1-1	1-2	1-3	1-5
225.00	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-7	1-9
250.00	0-11	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-0	2-2
275.00	1-1	1-3	1-4	1-6	1-8	1-10	2-0	2-3	2-5	2-8
300.00	1-4	1-6	1-7	1-9	2-0	2-2	2-5	2-8	2-11	3-2
325.00	1-7	1-9	1-11	2-1	2-4	2-7	2-10	3-1	3-5	3-8
350.00	1-10	2-0	2-2	2-5	2-8	3-0	3-3	3-7	3-11	4-3
375.00	2-1	2-3	2-6	2-9	3-1	3-5	3-9	4-1	4-6	4-11
400.00	2-4	2-7	2-10	3-2	3-6	3-10	4-3	4-8	5-1	5-7
425.00	2-8	2-11	3-3	3-7	3-11	4-4	4-10	5-4	5-9	6-3
450.00	3-0	3-3	3-7	4-0	4-5	4-11	5-5	5-11	6-6	7-0
475.00	3-4	3-8	4-0	4-5	4-11	5-5	6-0	6-7	7-3	7-10
500.00	3-8	4-1	4-6	4-11	5-6	6-1	6-8	7-4	8-0	8-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.8

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7
275.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11
300.00	1-2	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-1	2-3
325.00	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-4	2-6	2-8
350.00	1-8	1-9	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-1
375.00	1-10	2-0	2-2	2-3	2-5	2-8	2-10	3-1	3-3	3-6
400.00	2-2	2-3	2-5	2-7	2-9	3-0	3-3	3-6	3-9	4-0
425.00	2-5	2-7	2-9	2-11	3-2	3-5	3-8	3-11	4-3	4-7
450.00	2-8	2-10	3-1	3-3	3-6	3-9	4-1	4-5	4-9	5-1
475.00	3-0	3-2	3-5	3-8	3-11	4-3	4-7	4-11	5-3	5-8
500.00	3-4	3-6	3-9	4-1	4-4	4-8	5-1	5-5	5-10	6-3
525.00	3-8	3-11	4-2	4-6	4-10	5-2	5-7	6-0	6-5	6-11
550.00	4-0	4-3	4-7	4-11	5-3	5-8	6-1	6-7	7-1	7-7
575.00	4-5	4-8	5-0	5-4	5-9	6-2	6-8	7-2	7-9	8-4
600.00	4-9	5-1	5-5	5-10	6-3	6-9	7-3	7-10	8-5	9-1
625.00	5-2	5-6	5-11	6-4	6-10	7-4	7-11	8-6	9-2	9-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-0
275.00	1-2	1-4	1-5	1-7	1-8	1-10	2-0	2-2	2-3	2-5
300.00	1-5	1-7	1-8	1-10	2-0	2-2	2-4	2-7	2-9	2-11
325.00	1-8	1-10	2-0	2-2	2-4	2-7	2-9	3-0	3-2	3-5
350.00	1-11	2-1	2-4	2-6	2-9	3-0	3-3	3-6	3-9	4-0
375.00	2-3	2-5	2-8	2-11	3-2	3-5	3-8	4-0	4-3	4-7
400.00	2-6	2-9	3-0	3-3	3-7	3-11	4-2	4-6	4-10	5-2
425.00	2-10	3-1	3-5	3-8	4-0	4-5	4-9	5-1	5-6	5-10
450.00	3-2	3-6	3-10	4-2	4-6	4-11	5-4	5-9	6-2	6-7
475.00	3-7	3-11	4-3	4-7	5-0	5-6	5-11	6-4	6-10	7-4
500.00	3-11	4-4	4-8	5-1	5-7	6-1	6-7	7-1	7-7	8-1
525.00	4-4	4-9	5-2	5-8	6-2	6-8	7-3	7-9	8-4	8-11
550.00	4-9	5-2	5-8	6-2	6-9	7-4	7-11	8-7	9-2	9-9
575.00	5-3	5-8	6-3	6-9	7-5	8-0	8-8	9-4	10-0	10-8
600.00	5-8	6-2	6-9	7-4	8-0	8-9	9-5	10-2	10-11	11-8
625.00	6-2	6-9	7-4	8-0	8-9	9-6	10-3	11-0	11-10	12-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.246	0.24	1291	0.19	1600*
25	0	0	0	0.111	0.11	1281	0.09	1596
30	0	0	0	0.111	0.11	1232	0.09	1564
40	0	0	0	0.111	0.12	1135	0.09	1499
50	0	0	0	0.111	0.13	1037	0.10	1433
60	0	0	0	0.111	0.15	940	0.10	1366
70	0	0	0	0.111	0.16	843	0.11	1297
80	0	0	0	0.111	0.19	747	0.11	1228
90	0	0	0	0.111	0.21	651	0.12	1158
100	0	0	0	0.111	0.25	557	0.13	1086
110	0	0	0	0.111	0.30	465	0.14	1014
120	0	0	0	0.111	0.37	377	0.15	941
130	0	0	0	0.111	0.47	297	0.16	866
167	0	0	0	0.111	1.06	131	0.24	587
212	0	0	0	0.111	1.71	81	0.53	264

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.246	0.94	1308	0.77	1600*
25	0	0	0	0.111	0.44	1270	0.35	1583
30	0	0	0	0.111	0.45	1222	0.36	1551
40	0	0	0	0.111	0.49	1126	0.37	1486
50	0	0	0	0.111	0.54	1031	0.39	1421
60	0	0	0	0.111	0.59	936	0.41	1354
70	0	0	0	0.111	0.66	843	0.43	1286
80	0	0	0	0.111	0.74	751	0.46	1217
90	0	0	0	0.111	0.84	661	0.48	1147
100	0	0	0	0.111	0.96	575	0.52	1076
110	0	0	0	0.111	1.12	495	0.55	1005
120	0	0	0	0.111	1.31	423	0.59	933
130	0	0	0	0.111	1.54	360	0.64	861
167	0	0	0	0.111	2.54	219	0.93	595
212	0	0	0	0.111	3.65	152	1.70	326

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.10

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.246	2.08	1333	1.73	1600*
25	0	0	0	0.111	1.00	1252	0.80	1563
30	0	0	0	0.111	1.04	1205	0.82	1531
40	0	0	0	0.111	1.12	1112	0.85	1466
50	0	0	0	0.111	1.22	1020	0.89	1400
60	0	0	0	0.111	1.34	929	0.94	1334
70	0	0	0	0.111	1.49	841	0.99	1267
80	0	0	0	0.111	1.65	755	1.04	1199
90	0	0	0	0.111	1.85	674	1.11	1130
100	0	0	0	0.111	2.09	599	1.18	1061
110	0	0	0	0.111	2.36	530	1.26	991
120	0	0	0	0.111	2.66	469	1.35	922
130	0	0	0	0.111	3.00	417	1.47	852
167	0	0	0	0.111	4.32	289	2.06	607
212	0	0	0	0.111	5.82	215	3.30	379

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.246	3.62	1362	3.08	1600*
25	0	0	0	0.111	1.81	1228	1.45	1534
30	0	0	0	0.111	1.88	1182	1.48	1502
40	0	0	0	0.111	2.03	1093	1.54	1438
50	0	0	0	0.111	2.21	1005	1.62	1373
60	0	0	0	0.111	2.41	920	1.70	1307
70	0	0	0	0.111	2.65	838	1.79	1241
80	0	0	0	0.111	2.92	760	1.89	1174
90	0	0	0	0.111	3.23	688	2.01	1107
100	0	0	0	0.111	3.57	622	2.14	1040
110	0	0	0	0.111	3.95	562	2.28	973
120	0	0	0	0.111	4.35	510	2.45	907
130	0	0	0	0.111	4.78	465	2.64	842
167	0	0	0	0.111	6.39	348	3.58	620
212	0	0	0	0.111	8.22	270	5.24	424

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.11

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.246	5.54	1391	4.81	1600*
25	0	0	0	0.111	2.90	1198	2.32	1498
30	0	0	0	0.111	3.01	1154	2.37	1466
40	0	0	0	0.111	3.24	1069	2.47	1402
50	0	0	0	0.111	3.51	987	2.59	1338
60	0	0	0	0.111	3.82	908	2.72	1274
70	0	0	0	0.111	4.16	834	2.87	1209
80	0	0	0	0.111	4.54	765	3.03	1144
90	0	0	0	0.111	4.95	701	3.21	1079
100	0	0	0	0.111	5.40	643	3.42	1015
110	0	0	0	0.111	5.87	591	3.64	952
120	0	0	0	0.111	6.36	546	3.90	890
130	0	0	0	0.111	6.86	506	4.18	830
167	0	0	0	0.111	8.74	397	5.49	632
212	0	0	0	0.111	10.87	320	7.52	462

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-7

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-5	0-6
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8
175.00	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-11
200.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.13

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-7
225.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8
250.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-5	0-5
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-10
200.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-1
225.00	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-5
250.00	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.14

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
225.00	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-9
250.00	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10
275.00	0-8	0-8	0-9	0-9	0-9	0-10	0-11	0-11	1-0	1-1
300.00	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3
325.00	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6
350.00	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-9
375.00	1-3	1-3	1-4	1-5	1-6	1-6	1-8	1-9	1-10	2-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-6	0-7
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-10
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1
225.00	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-2	1-4
250.00	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-3	1-5	1-8
275.00	0-10	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-9	2-0
300.00	1-0	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-1	2-4
325.00	1-2	1-3	1-4	1-5	1-7	1-9	1-11	2-2	2-5	2-9
350.00	1-4	1-5	1-6	1-8	1-10	2-0	2-3	2-6	2-10	3-3
375.00	1-6	1-7	1-9	1-11	2-1	2-4	2-7	2-11	3-3	3-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.15

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
225.00	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-11
275.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1
300.00	0-10	0-10	0-10	0-11	0-11	1-0	1-1	1-2	1-2	1-3
325.00	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6
350.00	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6	1-8	1-9
375.00	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0
400.00	1-5	1-6	1-7	1-7	1-8	1-9	1-11	2-0	2-2	2-3
425.00	1-7	1-8	1-9	1-10	1-11	2-0	2-2	2-3	2-5	2-7
450.00	1-10	1-10	1-11	2-1	2-2	2-3	2-5	2-6	2-8	2-11
475.00	2-0	2-1	2-2	2-3	2-5	2-6	2-8	2-10	3-0	3-3
500.00	2-3	2-4	2-5	2-6	2-8	2-10	2-11	3-2	3-4	3-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
225.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-3
250.00	0-8	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-5	1-7
275.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10
300.00	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-3
325.00	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-2	2-4	2-7
350.00	1-4	1-5	1-7	1-8	1-10	2-0	2-3	2-6	2-9	3-0
375.00	1-6	1-8	1-9	1-11	2-1	2-4	2-7	2-10	3-2	3-6
400.00	1-9	1-11	2-0	2-3	2-5	2-8	2-11	3-3	3-7	3-11
425.00	2-0	2-1	2-4	2-6	2-9	3-0	3-4	3-8	4-0	4-5
450.00	2-2	2-5	2-7	2-10	3-1	3-4	3-8	4-1	4-6	5-0
475.00	2-5	2-8	2-10	3-1	3-5	3-9	4-1	4-7	5-0	5-7
500.00	2-9	2-11	3-2	3-5	3-9	4-2	4-7	5-1	5-7	6-2

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STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.16

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11
275.00	0-8	0-9	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1
300.00	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-3	1-4
325.00	1-0	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6
350.00	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9
375.00	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-10	1-11	2-1
400.00	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-4
425.00	1-8	1-9	1-9	1-10	2-0	2-1	2-2	2-4	2-6	2-8
450.00	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-7	2-9	2-11
475.00	2-1	2-2	2-3	2-4	2-5	2-7	2-9	2-11	3-1	3-3
500.00	2-3	2-4	2-6	2-7	2-9	2-10	3-0	3-3	3-5	3-8
525.00	2-6	2-7	2-9	2-10	3-0	3-2	3-4	3-7	3-9	4-0
550.00	2-9	2-10	3-0	3-2	3-4	3-6	3-8	3-11	4-2	4-5
575.00	3-0	3-2	3-3	3-5	3-7	3-10	4-0	4-3	4-6	4-10
600.00	3-3	3-5	3-7	3-9	3-11	4-2	4-4	4-8	4-11	5-3
625.00	3-7	3-8	3-10	4-1	4-3	4-6	4-9	5-0	5-4	5-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-8	0-9	0-10	0-11	0-11	1-0	1-2	1-3	1-4	1-6
275.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-9
300.00	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-9	1-11	2-1
325.00	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-6
350.00	1-4	1-6	1-7	1-9	1-10	2-0	2-3	2-5	2-8	2-11
375.00	1-7	1-8	1-10	2-0	2-2	2-4	2-7	2-9	3-0	3-4
400.00	1-9	1-11	2-1	2-3	2-5	2-8	2-11	3-2	3-5	3-9
425.00	2-0	2-2	2-4	2-6	2-9	3-0	3-3	3-7	3-11	4-3
450.00	2-3	2-5	2-8	2-10	3-1	3-4	3-8	4-0	4-4	4-9
475.00	2-6	2-9	2-11	3-2	3-5	3-9	4-1	4-6	4-10	5-4
500.00	2-10	3-0	3-3	3-6	3-10	4-2	4-6	4-11	5-5	5-10
525.00	3-1	3-4	3-7	3-11	4-3	4-7	5-0	5-6	5-11	6-6
550.00	3-5	3-8	3-11	4-3	4-7	5-0	5-6	6-0	6-6	7-1
575.00	3-8	4-0	4-3	4-8	5-1	5-6	6-0	6-7	7-2	7-9
600.00	4-0	4-4	4-8	5-1	5-6	6-0	6-6	7-2	7-9	8-5
625.00	4-4	4-8	5-1	5-6	6-0	6-6	7-1	7-9	8-5	9-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

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Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	0.914	0.77	1491	0.71	1600*
0.0	0.00	0.00	0.00	0.111	0.10	1365	0.09	1528
30.0	0.00	0.00	0.00	0.111	0.13	1072	0.10	1328
40.0	0.00	0.00	0.00	0.111	0.14	975	0.11	1259
50.0	0.00	0.00	0.00	0.111	0.16	878	0.12	1189
60.0	0.00	0.00	0.00	0.111	0.18	781	0.12	1118
70.0	0.00	0.00	0.00	0.111	0.20	685	0.13	1047
80.0	0.00	0.00	0.00	0.111	0.23	590	0.14	974
90.0	0.00	0.00	0.00	0.111	0.28	497	0.15	900
100.0	0.00	0.00	0.00	0.111	0.34	408	0.17	825
110.0	0.00	0.00	0.00	0.111	0.43	324	0.19	750
120.0	0.00	0.00	0.00	0.111	0.55	252	0.21	674
130.0	0.00	0.00	0.00	0.111	0.71	197	0.23	598
167.0	0.00	0.00	0.00	0.111	1.32	105	0.43	325
212.0	0.00	0.00	0.00	0.111	1.90	73	1.07	130

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	0.914	2.86	1600	2.86	1600*
0.0	0.00	0.00	0.00	0.111	0.48	1168	0.43	1306
30.0	0.00	0.00	0.00	0.111	0.63	883	0.51	1097
40.0	0.00	0.00	0.00	0.111	0.70	790	0.54	1026
50.0	0.00	0.00	0.00	0.111	0.79	699	0.58	954
60.0	0.00	0.00	0.00	0.111	0.91	612	0.63	882
70.0	0.00	0.00	0.00	0.111	1.05	529	0.69	810
80.0	0.00	0.00	0.00	0.111	1.23	453	0.75	737
90.0	0.00	0.00	0.00	0.111	1.44	386	0.83	665
100.0	0.00	0.00	0.00	0.111	1.68	330	0.93	595
110.0	0.00	0.00	0.00	0.111	1.95	284	1.05	526
120.0	0.00	0.00	0.00	0.111	2.23	249	1.20	461
130.0	0.00	0.00	0.00	0.111	2.50	222	1.38	402
167.0	0.00	0.00	0.00	0.111	3.44	162	2.26	245
212.0	0.00	0.00	0.00	0.111	4.39	127	3.38	164

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.18

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	0.914	6.44	1600	6.44	1600*
0.0	0.00	0.00	0.00	0.111	1.84	679	1.35	923
30.0	0.00	0.00	0.00	0.111	2.64	473	1.74	718
40.0	0.00	0.00	0.00	0.111	2.98	420	1.92	652
50.0	0.00	0.00	0.00	0.111	3.33	375	2.12	590
60.0	0.00	0.00	0.00	0.111	3.69	339	2.35	531
70.0	0.00	0.00	0.00	0.111	4.05	309	2.62	477
80.0	0.00	0.00	0.00	0.111	4.41	284	2.91	429
90.0	0.00	0.00	0.00	0.111	4.76	263	3.23	387
100.0	0.00	0.00	0.00	0.111	5.09	245	3.56	351
110.0	0.00	0.00	0.00	0.111	5.42	231	3.90	321
120.0	0.00	0.00	0.00	0.111	5.74	218	4.24	295
130.0	0.00	0.00	0.00	0.111	6.04	207	4.58	273
167.0	0.00	0.00	0.00	0.111	7.09	176	5.76	217
212.0	0.00	0.00	0.00	0.111	8.22	152	7.04	178

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	0.914	11.46	1600	11.46	1600*
0.0	0.00	0.00	0.00	0.111	6.29	353	4.53	490
30.0	0.00	0.00	0.00	0.111	7.55	295	5.74	387
40.0	0.00	0.00	0.00	0.111	7.94	280	6.15	361
50.0	0.00	0.00	0.00	0.111	8.33	267	6.56	339
60.0	0.00	0.00	0.00	0.111	8.70	256	6.96	319
70.0	0.00	0.00	0.00	0.111	9.06	245	7.36	302
80.0	0.00	0.00	0.00	0.111	9.42	236	7.75	287
90.0	0.00	0.00	0.00	0.111	9.76	228	8.13	274
100.0	0.00	0.00	0.00	0.111	10.10	220	8.50	262
110.0	0.00	0.00	0.00	0.111	10.42	214	8.86	251
120.0	0.00	0.00	0.00	0.111	10.74	207	9.21	241
130.0	0.00	0.00	0.00	0.111	11.06	201	9.56	233
167.0	0.00	0.00	0.00	0.111	12.15	183	10.76	207
212.0	0.00	0.00	0.00	0.111	13.38	167	12.09	184

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	0.914	17.94	1600	17.94	1600*
0.0	0.00	0.00	0.00	0.111	12.98	268	11.12	313
30.0	0.00	0.00	0.00	0.111	14.14	246	12.37	281
40.0	0.00	0.00	0.00	0.111	14.51	240	12.77	272
50.0	0.00	0.00	0.00	0.111	14.87	234	13.16	264
60.0	0.00	0.00	0.00	0.111	15.22	229	13.55	257
70.0	0.00	0.00	0.00	0.111	15.57	224	13.92	250
80.0	0.00	0.00	0.00	0.111	15.91	219	14.29	243
90.0	0.00	0.00	0.00	0.111	16.25	214	14.66	238
100.0	0.00	0.00	0.00	0.111	16.58	210	15.01	232
110.0	0.00	0.00	0.00	0.111	16.90	206	15.36	227
120.0	0.00	0.00	0.00	0.111	17.22	202	15.70	222
130.0	0.00	0.00	0.00	0.111	17.53	199	16.04	217
167.0	0.00	0.00	0.00	0.111	18.65	187	17.23	202
212.0	0.00	0.00	0.00	0.111	19.93	175	18.59	188

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5
125.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8
150.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-8	0-9	1-0
175.00	0-4	0-5	0-5	0-6	0-7	0-7	0-9	0-10	1-1	1-4
200.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-4	1-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.21

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
150.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
200.00	0-6	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-1
225.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-1	1-2	1-4
250.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10	0-11	1-1
175.00	0-5	0-6	0-6	0-7	0-8	0-10	0-11	1-1	1-3	1-6
200.00	0-7	0-8	0-8	0-10	0-11	1-1	1-3	1-5	1-8	1-11
225.00	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-10	2-2	2-6
250.00	0-11	1-0	1-1	1-3	1-5	1-8	1-11	2-3	2-8	3-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.22

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4
200.00	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-5	1-7	1-9
225.00	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-10	2-0	2-2
250.00	1-1	1-3	1-4	1-6	1-8	1-10	2-0	2-3	2-6	2-8
275.00	1-4	1-6	1-7	1-9	2-0	2-2	2-5	2-9	3-0	3-3
300.00	1-7	1-9	1-11	2-1	2-4	2-7	2-11	3-3	3-7	3-11
325.00	1-10	2-1	2-3	2-6	2-9	3-1	3-5	3-9	4-2	4-7
350.00	2-2	2-4	2-7	2-11	3-2	3-7	4-0	4-5	4-10	5-4
375.00	2-6	2-9	3-0	3-4	3-8	4-1	4-7	5-1	5-7	6-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
175.00	0-10	0-11	1-0	1-2	1-3	1-5	1-6	1-7	1-9	1-10
200.00	1-0	1-2	1-4	1-6	1-8	1-10	2-0	2-1	2-3	2-5
225.00	1-4	1-6	1-8	1-10	2-1	2-3	2-6	2-8	2-10	3-1
250.00	1-7	1-10	2-1	2-4	2-7	2-10	3-1	3-4	3-6	3-9
275.00	2-0	2-3	2-6	2-10	3-1	3-5	3-8	4-0	4-3	4-7
300.00	2-4	2-8	3-0	3-4	3-8	4-1	4-5	4-9	5-1	5-5
325.00	2-9	3-1	3-6	3-11	4-4	4-9	5-2	5-7	6-0	6-4
350.00	3-2	3-7	4-1	4-6	5-0	5-6	6-0	6-6	6-11	7-5
375.00	3-8	4-2	4-8	5-2	5-9	6-4	6-11	7-5	8-0	8-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-3
225.00	1-8	1-10	1-11	2-1	2-2	2-4	2-5	2-7	2-8	2-10
250.00	2-1	2-3	2-5	2-7	2-9	2-10	3-0	3-2	3-4	3-6
275.00	2-6	2-9	2-11	3-1	3-3	3-6	3-8	3-10	4-0	4-2
300.00	3-0	3-3	3-5	3-8	3-11	4-2	4-4	4-7	4-9	5-0
325.00	3-6	3-9	4-1	4-4	4-7	4-10	5-1	5-4	5-7	5-10
350.00	4-1	4-5	4-8	5-0	5-4	5-8	5-11	6-3	6-6	6-9
375.00	4-8	5-0	5-5	5-9	6-1	6-6	6-10	7-2	7-6	7-9
400.00	5-4	5-9	6-2	6-7	7-0	7-4	7-9	8-2	8-6	8-10
425.00	6-0	6-6	6-11	7-5	7-10	8-4	8-9	9-2	9-7	10-0
450.00	6-9	7-3	7-9	8-4	8-10	9-4	9-10	10-3	10-9	11-3
475.00	7-6	8-1	8-8	9-3	9-10	10-5	10-11	11-6	12-0	12-6
500.00	8-4	9-0	9-7	10-3	10-11	11-6	12-1	12-8	13-3	13-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-9	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
225.00	2-3	2-5	2-6	2-8	2-9	2-10	3-0	3-1	3-2	3-4
250.00	2-9	2-11	3-1	3-3	3-5	3-6	3-8	3-10	3-11	4-1
275.00	3-4	3-7	3-9	3-11	4-1	4-3	4-5	4-7	4-9	4-11
300.00	4-0	4-3	4-6	4-8	4-11	5-1	5-4	5-6	5-8	5-10
325.00	4-9	5-0	5-3	5-6	5-9	6-0	6-3	6-5	6-8	6-11
350.00	5-6	5-9	6-1	6-4	6-8	6-11	7-3	7-6	7-9	8-0
375.00	6-3	6-8	7-0	7-4	7-8	8-0	8-3	8-7	8-10	9-2
400.00	7-2	7-7	7-11	8-4	8-8	9-1	9-5	9-9	10-1	10-5
425.00	8-1	8-6	9-0	9-5	9-10	10-3	10-8	11-0	11-5	11-9
450.00	9-0	9-7	10-1	10-6	11-0	11-6	11-11	12-4	12-9	13-2
475.00	10-1	10-8	11-2	11-9	12-3	12-9	13-3	13-9	14-3	14-8
500.00	11-2	11-10	12-5	13-0	13-7	14-2	14-9	15-3	15-9	16-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.24

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-0	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-9	3-10
275.00	3-7	3-9	3-10	4-0	4-1	4-3	4-4	4-5	4-6	4-8
300.00	4-4	4-5	4-7	4-9	4-10	5-0	5-2	5-3	5-5	5-6
325.00	5-1	5-3	5-5	5-7	5-9	5-11	6-0	6-2	6-4	6-6
350.00	5-10	6-1	6-3	6-5	6-8	6-10	7-0	7-2	7-4	7-6
375.00	6-9	6-11	7-2	7-5	7-7	7-10	8-0	8-3	8-5	8-8
400.00	7-8	7-11	8-2	8-5	8-8	8-11	9-2	9-5	9-7	9-10
425.00	8-8	8-11	9-3	9-6	9-9	10-1	10-4	10-7	10-10	11-1
450.00	9-8	10-0	10-4	10-8	11-0	11-3	11-7	11-10	12-2	12-5
475.00	10-10	11-2	11-6	11-11	12-3	12-7	12-11	13-3	13-7	13-10
500.00	12-0	12-4	12-9	13-2	13-7	13-11	14-4	14-8	15-0	15-4
525.00	13-2	13-8	14-1	14-6	14-11	15-4	15-9	16-2	16-7	16-11
550.00	14-6	15-0	15-5	15-11	16-5	16-10	17-4	17-9	18-2	18-7
575.00	15-10	16-4	16-11	17-5	17-11	18-5	18-11	19-5	19-10	20-4
600.00	17-3	17-10	18-5	19-0	19-6	20-1	20-7	21-1	21-8	22-2
625.00	18-8	19-4	20-0	20-7	21-2	21-9	22-4	22-11	23-6	24-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-5	3-6	3-7	3-9	3-10	3-11	4-0	4-1	4-2	4-3
275.00	4-2	4-3	4-5	4-6	4-7	4-8	4-10	4-11	5-0	5-1
300.00	4-11	5-1	5-3	5-4	5-6	5-7	5-9	5-10	6-0	6-1
325.00	5-10	6-0	6-1	6-3	6-5	6-7	6-9	6-10	7-0	7-2
350.00	6-9	6-11	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-3
375.00	7-9	7-11	8-2	8-4	8-7	8-9	8-11	9-2	9-4	9-6
400.00	8-10	9-1	9-3	9-6	9-9	10-0	10-2	10-5	10-7	10-10
425.00	9-11	10-3	10-6	10-9	11-0	11-3	11-6	11-9	12-0	12-2
450.00	11-2	11-5	11-9	12-0	12-4	12-7	12-11	13-2	13-5	13-8
475.00	12-5	12-9	13-1	13-5	13-9	14-1	14-4	14-8	14-11	15-3
500.00	13-9	14-2	14-6	14-10	15-3	15-7	15-11	16-3	16-7	16-11
525.00	15-2	15-7	16-0	16-5	16-9	17-2	17-7	17-11	18-3	18-8
550.00	16-8	17-1	17-7	18-0	18-5	18-10	19-3	19-8	20-1	20-5
575.00	18-2	18-8	19-2	19-8	20-2	20-7	21-1	21-6	21-11	22-4
600.00	19-10	20-4	20-11	21-5	21-11	22-5	22-11	23-5	23-11	24-4
625.00	21-6	22-1	22-8	23-3	23-10	24-4	24-11	25-5	25-11	26-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.25

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	0.914	0.70	1628	0.63	1800*
0	0	0	0	0.111	0.09	1522	0.08	1747
30	0	0	0	0.111	0.11	1229	0.09	1559
40	0	0	0	0.111	0.12	1131	0.09	1494
50	0	0	0	0.111	0.13	1034	0.10	1428
60	0	0	0	0.111	0.15	937	0.10	1360
70	0	0	0	0.111	0.17	840	0.11	1292
80	0	0	0	0.111	0.19	744	0.11	1223
90	0	0	0	0.111	0.21	648	0.12	1152
100	0	0	0	0.111	0.25	554	0.13	1081
110	0	0	0	0.111	0.30	462	0.14	1008
120	0	0	0	0.111	0.37	374	0.15	935
130	0	0	0	0.111	0.47	294	0.16	861
167	0	0	0	0.111	1.06	130	0.24	581
212	0	0	0	0.111	1.71	81	0.53	259

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	0.914	2.60	1758	2.54	1800*
0	0	0	0	0.111	0.40	1398	0.35	1582
30	0	0	0	0.111	0.50	1109	0.40	1386
40	0	0	0	0.111	0.55	1014	0.42	1318
50	0	0	0	0.111	0.60	919	0.44	1250
60	0	0	0	0.111	0.67	826	0.47	1181
70	0	0	0	0.111	0.76	734	0.50	1110
80	0	0	0	0.111	0.86	646	0.53	1039
90	0	0	0	0.111	0.99	561	0.57	968
100	0	0	0	0.111	1.15	482	0.62	896
110	0	0	0	0.111	1.35	411	0.67	823
120	0	0	0	0.111	1.59	350	0.74	751
130	0	0	0	0.111	1.85	301	0.82	679
167	0	0	0	0.111	2.85	195	1.29	430
212	0	0	0	0.111	3.91	142	2.34	237

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	0.914	5.72	1800	5.72	1800*
0	0	0	0	0.111	1.20	1043	0.97	1294
30	0	0	0	0.111	1.61	777	1.15	1088
40	0	0	0	0.111	1.80	695	1.23	1019
50	0	0	0	0.111	2.02	617	1.32	950
60	0	0	0	0.111	2.28	547	1.42	880
70	0	0	0	0.111	2.58	484	1.54	811
80	0	0	0	0.111	2.91	429	1.68	743
90	0	0	0	0.111	3.26	383	1.84	677
100	0	0	0	0.111	3.62	345	2.04	613
110	0	0	0	0.111	3.98	314	2.26	553
120	0	0	0	0.111	4.34	288	2.51	497
130	0	0	0	0.111	4.69	267	2.79	447
167	0	0	0	0.111	5.90	212	4.00	312
212	0	0	0	0.111	7.17	174	5.49	228

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	0.914	10.18	1800	10.18	1800*
0	0	0	0	0.111	3.79	586	2.51	885
30	0	0	0	0.111	5.03	441	3.18	697
40	0	0	0	0.111	5.47	406	3.47	640
50	0	0	0	0.111	5.91	376	3.79	587
60	0	0	0	0.111	6.35	350	4.13	538
70	0	0	0	0.111	6.77	328	4.50	493
80	0	0	0	0.111	7.19	309	4.89	454
90	0	0	0	0.111	7.59	293	5.29	420
100	0	0	0	0.111	7.99	278	5.70	389
110	0	0	0	0.111	8.37	266	6.12	363
120	0	0	0	0.111	8.74	254	6.53	340
130	0	0	0	0.111	9.11	244	6.93	321
167	0	0	0	0.111	10.37	215	8.36	266
212	0	0	0	0.111	11.75	190	9.93	224

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.27

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	0.914	15.93	1800	15.93	1800*
0	0	0	0	0.111	9.44	368	6.83	508
30	0	0	0	0.111	10.84	321	8.25	421
40	0	0	0	0.111	11.28	308	8.73	398
50	0	0	0	0.111	11.71	297	9.20	378
60	0	0	0	0.111	12.14	286	9.66	360
70	0	0	0	0.111	12.55	277	10.12	343
80	0	0	0	0.111	12.95	269	10.56	329
90	0	0	0	0.111	13.35	261	11.00	316
100	0	0	0	0.111	13.73	253	11.43	304
110	0	0	0	0.111	14.11	247	11.85	293
120	0	0	0	0.111	14.48	240	12.26	284
130	0	0	0	0.111	14.84	235	12.67	275
167	0	0	0	0.111	16.12	216	14.09	247
212	0	0	0	0.111	17.57	198	15.68	222

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-7

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-5	0-6
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-11
200.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.29

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
150.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
175.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6
200.00	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8
225.00	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10
250.00	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4
125.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
150.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
175.00	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-11	1-0
200.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-2	1-4
225.00	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-3	1-6	1-9
250.00	0-9	0-9	0-10	0-11	1-1	1-2	1-4	1-7	1-10	2-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.30

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9
200.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0
225.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-2	1-3
250.00	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7
275.00	0-11	1-0	1-0	1-1	1-2	1-4	1-5	1-7	1-9	1-11
300.00	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-3
325.00	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-2	2-5	2-8
350.00	1-6	1-7	1-8	1-9	1-11	2-1	2-3	2-6	2-9	3-1
375.00	1-8	1-10	1-11	2-1	2-3	2-5	2-8	2-11	3-2	3-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-1	1-3	1-4
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-5	1-7	1-9
225.00	0-10	0-11	1-0	1-2	1-3	1-5	1-8	1-10	2-0	2-3
250.00	1-0	1-1	1-3	1-5	1-7	1-10	2-0	2-3	2-6	2-9
275.00	1-3	1-4	1-6	1-8	1-11	2-2	2-5	2-9	3-0	3-4
300.00	1-5	1-7	1-10	2-0	2-3	2-7	2-11	3-3	3-7	4-0
325.00	1-8	1-11	2-1	2-4	2-8	3-0	3-5	3-10	4-3	4-8
350.00	2-0	2-2	2-5	2-9	3-1	3-6	4-0	4-5	4-11	5-5
375.00	2-3	2-6	2-10	3-2	3-7	4-0	4-7	5-1	5-8	6-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.31

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-4	1-5	1-6
225.00	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-8	1-10	1-11
250.00	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-5
275.00	1-5	1-6	1-8	1-9	1-11	2-2	2-4	2-6	2-8	2-11
300.00	1-8	1-9	1-11	2-2	2-4	2-6	2-9	3-0	3-3	3-5
325.00	1-11	2-1	2-3	2-6	2-9	3-0	3-3	3-6	3-9	4-0
350.00	2-3	2-5	2-8	2-11	3-2	3-5	3-9	4-1	4-4	4-8
375.00	2-7	2-10	3-1	3-4	3-8	3-11	4-4	4-8	5-0	5-5
400.00	2-11	3-2	3-6	3-9	4-2	4-6	4-11	5-4	5-8	6-1
425.00	3-4	3-7	3-11	4-3	4-8	5-1	5-6	6-0	6-5	6-11
450.00	3-9	4-0	4-5	4-9	5-3	5-8	6-2	6-8	7-3	7-9
475.00	4-2	4-6	4-11	5-4	5-10	6-4	6-11	7-6	8-1	8-8
500.00	4-7	5-0	5-5	5-11	6-5	7-0	7-8	8-3	8-11	9-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-2	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-0	2-1
225.00	1-5	1-7	1-9	1-10	2-0	2-2	2-3	2-5	2-6	2-8
250.00	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-1	3-3
275.00	2-2	2-5	2-7	2-10	3-0	3-2	3-5	3-7	3-9	3-11
300.00	2-7	2-10	3-1	3-4	3-7	3-10	4-1	4-3	4-6	4-8
325.00	3-0	3-4	3-7	3-11	4-2	4-6	4-9	5-0	5-3	5-6
350.00	3-6	3-10	4-2	4-6	4-10	5-2	5-6	5-10	6-1	6-5
375.00	4-1	4-5	4-10	5-2	5-7	5-11	6-4	6-8	7-0	7-4
400.00	4-7	5-0	5-6	5-11	6-4	6-9	7-2	7-7	8-0	8-4
425.00	5-2	5-8	6-2	6-8	7-2	7-8	8-1	8-7	9-0	9-5
450.00	5-10	6-4	6-11	7-6	8-0	8-7	9-1	9-7	10-1	10-7
475.00	6-6	7-1	7-9	8-4	8-11	9-7	10-2	10-9	11-3	11-10
500.00	7-2	7-10	8-7	9-3	9-11	10-7	11-3	11-10	12-6	13-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.32

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-11	2-1	2-2	2-4	2-5	2-6	2-8	2-9	2-10	3-0
275.00	2-4	2-6	2-8	2-9	2-11	3-1	3-2	3-4	3-5	3-7
300.00	2-10	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-1	4-3
325.00	3-3	3-6	3-8	3-11	4-1	4-3	4-6	4-8	4-10	5-0
350.00	3-10	4-1	4-3	4-6	4-9	4-11	5-2	5-5	5-7	5-10
375.00	4-4	4-8	4-11	5-2	5-5	5-8	5-11	6-2	6-5	6-8
400.00	5-0	5-3	5-7	5-11	6-2	6-6	6-9	7-0	7-4	7-7
425.00	5-7	6-0	6-4	6-8	7-0	7-4	7-8	7-11	8-3	8-7
450.00	6-4	6-8	7-1	7-5	7-10	8-2	8-7	8-11	9-3	9-7
475.00	7-0	7-5	7-11	8-4	8-9	9-2	9-6	9-11	10-4	10-8
500.00	7-9	8-3	8-9	9-2	9-8	10-1	10-7	11-0	11-5	11-10
525.00	8-7	9-1	9-7	10-2	10-8	11-2	11-8	12-2	12-7	13-1
550.00	9-5	10-0	10-7	11-2	11-8	12-3	12-9	13-4	13-10	14-4
575.00	10-3	10-11	11-7	12-2	12-9	13-5	14-0	14-7	15-1	15-8
600.00	11-2	11-11	12-7	13-3	13-11	14-7	15-3	15-10	16-6	17-1
625.00	12-2	12-11	13-8	14-4	15-1	15-10	16-6	17-2	17-10	18-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-7	2-8	2-10	2-11	3-0	3-2	3-3	3-4	3-5	3-6
275.00	3-2	3-3	3-5	3-7	3-8	3-10	3-11	4-0	4-2	4-3
300.00	3-9	3-11	4-1	4-3	4-4	4-6	4-8	4-10	4-11	5-1
325.00	4-5	4-7	4-9	4-11	5-2	5-4	5-6	5-8	5-10	5-11
350.00	5-1	5-4	5-6	5-9	5-11	6-2	6-4	6-6	6-9	6-11
375.00	5-10	6-1	6-4	6-7	6-10	7-1	7-3	7-6	7-9	7-11
400.00	6-8	6-11	7-3	7-6	7-9	8-0	8-3	8-6	8-9	9-0
425.00	7-6	7-10	8-2	8-6	8-9	9-1	9-4	9-8	9-11	10-2
450.00	8-5	8-9	9-2	9-6	9-10	10-2	10-6	10-10	11-1	11-5
475.00	9-4	9-9	10-2	10-7	10-11	11-4	11-8	12-1	12-5	12-9
500.00	10-5	10-10	11-3	11-9	12-2	12-7	12-11	13-4	13-9	14-1
525.00	11-5	11-11	12-5	12-11	13-5	13-10	14-3	14-9	15-2	15-7
550.00	12-7	13-1	13-8	14-2	14-8	15-2	15-8	16-2	16-7	17-1
575.00	13-9	14-4	14-11	15-6	16-1	16-7	17-2	17-8	18-2	18-8
600.00	14-11	15-7	16-3	16-10	17-6	18-1	18-8	19-3	19-9	20-4
625.00	16-3	16-11	17-8	18-4	19-0	19-7	20-3	20-10	21-6	22-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	2.923	2.29	1600	2.29	1600*
0.0	0.00	0.00	0.00	0.111	0.29	479	0.18	788
30.0	0.00	0.00	0.00	0.111	0.58	240	0.25	561
40.0	0.00	0.00	0.00	0.111	0.74	188	0.29	485
50.0	0.00	0.00	0.00	0.111	0.91	152	0.34	410
60.0	0.00	0.00	0.00	0.111	1.08	128	0.41	339
70.0	0.00	0.00	0.00	0.111	1.24	112	0.51	274
80.0	0.00	0.00	0.00	0.111	1.39	100	0.64	218
90.0	0.00	0.00	0.00	0.111	1.53	91	0.79	176
100.0	0.00	0.00	0.00	0.111	1.66	83	0.95	146
110.0	0.00	0.00	0.00	0.111	1.79	78	1.12	124
120.0	0.00	0.00	0.00	0.111	1.90	73	1.27	109
130.0	0.00	0.00	0.00	0.111	2.01	69	1.42	98
167.0	0.00	0.00	0.00	0.111	2.38	58	1.88	74
212.0	0.00	0.00	0.00	0.111	2.77	50	2.34	59

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	2.923	9.21	1600	9.21	1600*
0.0	0.00	0.00	0.00	0.111	7.53	74	6.92	81
30.0	0.00	0.00	0.00	0.111	7.88	71	7.30	76
40.0	0.00	0.00	0.00	0.111	7.99	70	7.42	75
50.0	0.00	0.00	0.00	0.111	8.10	69	7.54	74
60.0	0.00	0.00	0.00	0.111	8.21	68	7.66	73
70.0	0.00	0.00	0.00	0.111	8.32	67	7.77	72
80.0	0.00	0.00	0.00	0.111	8.43	66	7.89	71
90.0	0.00	0.00	0.00	0.111	8.53	66	8.00	70
100.0	0.00	0.00	0.00	0.111	8.64	65	8.11	69
110.0	0.00	0.00	0.00	0.111	8.74	64	8.22	68
120.0	0.00	0.00	0.00	0.111	8.84	63	8.33	67
130.0	0.00	0.00	0.00	0.111	8.94	63	8.44	66
167.0	0.00	0.00	0.00	0.111	9.31	60	8.82	63
212.0	0.00	0.00	0.00	0.111	9.74	58	9.27	60

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.34

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	2.923	20.95	1600	20.95	1600*
0.0	0.00	0.00	0.00	0.111	19.35	66	18.83	67
30.0	0.00	0.00	0.00	0.111	19.67	65	19.15	66
40.0	0.00	0.00	0.00	0.111	19.77	64	19.26	66
50.0	0.00	0.00	0.00	0.111	19.88	64	19.36	66
60.0	0.00	0.00	0.00	0.111	19.98	64	19.47	65
70.0	0.00	0.00	0.00	0.111	20.08	63	19.57	65
80.0	0.00	0.00	0.00	0.111	20.18	63	19.68	65
90.0	0.00	0.00	0.00	0.111	20.29	63	19.78	64
100.0	0.00	0.00	0.00	0.111	20.39	62	19.89	64
110.0	0.00	0.00	0.00	0.111	20.49	62	19.99	64
120.0	0.00	0.00	0.00	0.111	20.59	62	20.09	63
130.0	0.00	0.00	0.00	0.111	20.69	62	20.19	63
167.0	0.00	0.00	0.00	0.111	21.05	60	20.57	62
212.0	0.00	0.00	0.00	0.111	21.49	59	21.01	61

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	2.923	37.85	1600	37.85	1600*
0.0	0.00	0.00	0.00	0.111	36.28	63	35.77	64
30.0	0.00	0.00	0.00	0.111	36.58	63	36.08	64
40.0	0.00	0.00	0.00	0.111	36.68	63	36.19	63
50.0	0.00	0.00	0.00	0.111	36.79	62	36.29	63
60.0	0.00	0.00	0.00	0.111	36.89	62	36.39	63
70.0	0.00	0.00	0.00	0.111	36.99	62	36.49	63
80.0	0.00	0.00	0.00	0.111	37.09	62	36.59	63
90.0	0.00	0.00	0.00	0.111	37.19	62	36.69	63
100.0	0.00	0.00	0.00	0.111	37.29	62	36.79	62
110.0	0.00	0.00	0.00	0.111	37.39	61	36.90	62
120.0	0.00	0.00	0.00	0.111	37.48	61	37.00	62
130.0	0.00	0.00	0.00	0.111	37.58	61	37.10	62
167.0	0.00	0.00	0.00	0.111	37.95	61	37.46	61
212.0	0.00	0.00	0.00	0.111	38.39	60	37.91	61

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.35

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	2.923	60.44	1600	60.44	1600*
0.0	0.00	0.00	0.00	0.111	58.89	62	58.39	63
30.0	0.00	0.00	0.00	0.111	59.19	62	58.69	62
40.0	0.00	0.00	0.00	0.111	59.29	62	58.79	62
50.0	0.00	0.00	0.00	0.111	59.39	62	58.90	62
60.0	0.00	0.00	0.00	0.111	59.49	62	59.00	62
70.0	0.00	0.00	0.00	0.111	59.58	62	59.10	62
80.0	0.00	0.00	0.00	0.111	59.68	61	59.20	62
90.0	0.00	0.00	0.00	0.111	59.78	61	59.29	62
100.0	0.00	0.00	0.00	0.111	59.88	61	59.39	62
110.0	0.00	0.00	0.00	0.111	59.98	61	59.49	62
120.0	0.00	0.00	0.00	0.111	60.08	61	59.59	62
130.0	0.00	0.00	0.00	0.111	60.18	61	59.69	61
167.0	0.00	0.00	0.00	0.111	60.54	61	60.06	61
212.0	0.00	0.00	0.00	0.111	60.98	60	60.50	61

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-8
100.00	0-3	0-3	0-3	0-4	0-5	0-6	0-8	0-9	0-11	1-1
125.00	0-4	0-5	0-5	0-6	0-8	0-10	1-0	1-3	1-6	1-9
150.00	0-6	0-7	0-8	0-9	0-11	1-2	1-5	1-9	2-2	2-6
175.00	0-8	0-9	0-11	1-0	1-3	1-7	1-11	2-5	2-11	3-5
200.00	0-10	1-0	1-2	1-4	1-8	2-0	2-7	3-2	3-10	4-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
100.00	0-5	0-7	0-9	0-11	1-1	1-3	1-5	1-6	1-8	1-9
125.00	0-8	0-11	1-2	1-5	1-8	1-11	2-2	2-5	2-7	2-10
150.00	1-0	1-4	1-8	2-1	2-5	2-10	3-2	3-5	3-9	4-0
175.00	1-5	1-9	2-3	2-10	3-4	3-10	4-3	4-8	5-1	5-6
200.00	1-10	2-4	3-0	3-8	4-4	5-0	5-7	6-2	6-8	7-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.37

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0	2-1
125.00	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2
150.00	4-0	4-1	4-2	4-3	4-4	4-4	4-5	4-6	4-7	4-7
175.00	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3
200.00	7-2	7-4	7-5	7-6	7-8	7-9	7-11	8-0	8-1	8-3
225.00	9-1	9-3	9-5	9-7	9-8	9-10	10-0	10-2	10-3	10-5
250.00	11-3	11-5	11-7	11-10	12-0	12-2	12-4	12-6	12-8	12-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-11	2-0	2-0	2-0	2-1	2-1	2-1	2-2	2-2	2-2
125.00	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5
150.00	4-4	4-5	4-6	4-7	4-7	4-8	4-9	4-10	4-10	4-11
175.00	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8
200.00	7-9	7-11	8-0	8-1	8-3	8-4	8-5	8-6	8-8	8-9
225.00	9-10	10-0	10-1	10-3	10-5	10-6	10-8	10-10	10-11	11-1
250.00	12-2	12-4	12-6	12-8	12-10	13-0	13-2	13-4	13-6	13-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.38

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-9	4-9	4-10	4-10	4-10	4-10	4-11	4-11	4-11	5-0
175.00	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-8	6-9	6-9
200.00	8-5	8-6	8-6	8-7	8-8	8-8	8-9	8-9	8-10	8-10
225.00	10-8	10-9	10-10	10-10	10-11	11-0	11-1	11-1	11-2	11-3
250.00	13-2	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-9	13-10
275.00	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8	16-9
300.00	19-1	19-2	19-3	19-4	19-6	19-7	19-8	19-9	19-11	20-0
325.00	22-4	22-6	22-7	22-9	22-10	23-0	23-1	23-3	23-4	23-6
350.00	26-0	26-1	26-3	26-5	26-7	26-8	26-10	27-0	27-1	27-3
375.00	29-10	30-0	30-2	30-4	30-6	30-8	30-10	31-0	31-2	31-4

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-10	4-11	4-11	4-11	5-0	5-0	5-0	5-1	5-1	5-1
175.00	6-8	6-8	6-8	6-9	6-9	6-10	6-10	6-11	6-11	6-11
200.00	8-8	8-9	8-9	8-10	8-10	8-11	8-11	9-0	9-0	9-1
225.00	11-0	11-0	11-1	11-2	11-3	11-3	11-4	11-5	11-5	11-6
250.00	13-7	13-8	13-8	13-9	13-10	13-11	14-0	14-1	14-2	14-2
275.00	16-5	16-6	16-7	16-8	16-9	16-10	16-11	17-0	17-1	17-2
300.00	19-7	19-8	19-9	19-11	20-0	20-1	20-2	20-3	20-5	20-6
325.00	23-0	23-1	23-3	23-4	23-6	23-7	23-9	23-10	23-11	24-1
350.00	26-8	26-10	27-0	27-1	27-3	27-5	27-6	27-8	27-10	27-11
375.00	30-8	30-10	31-0	31-2	31-4	31-6	31-8	31-10	32-0	32-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.39

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-11	8-11	9-0	9-0	9-0	9-1	9-1	9-1	9-1	9-2
225.00	11-4	11-4	11-4	11-5	11-5	11-6	11-6	11-6	11-7	11-7
250.00	14-0	14-0	14-1	14-1	14-1	14-2	14-2	14-3	14-3	14-4
275.00	16-11	17-0	17-0	17-1	17-1	17-2	17-2	17-3	17-3	17-4
300.00	20-2	20-2	20-3	20-4	20-4	20-5	20-6	20-6	20-7	20-8
325.00	23-8	23-9	23-10	23-10	23-11	24-0	24-1	24-2	24-2	24-3
350.00	27-6	27-7	27-8	27-9	27-9	27-10	27-11	28-0	28-1	28-2
375.00	31-7	31-8	31-9	31-10	31-11	32-0	32-1	32-2	32-4	32-5
400.00	36-0	36-1	36-2	36-3	36-5	36-6	36-7	36-8	36-10	36-11
425.00	40-8	40-9	40-11	41-0	41-2	41-3	41-4	41-6	41-7	41-9
450.00	45-8	45-10	45-11	46-1	46-2	46-4	46-5	46-7	46-8	46-10
475.00	50-11	51-1	51-3	51-5	51-7	51-8	51-10	52-0	52-1	52-3
500.00	56-7	56-9	56-11	57-1	57-2	57-4	57-6	57-8	57-10	58-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-1	9-1	9-1	9-1	9-2	9-2	9-2	9-3	9-3	9-3
225.00	11-5	11-6	11-6	11-7	11-7	11-7	11-8	11-8	11-8	11-9
250.00	14-2	14-2	14-3	14-3	14-4	14-4	14-5	14-5	14-6	14-6
275.00	17-2	17-2	17-3	17-3	17-4	17-5	17-5	17-6	17-6	17-7
300.00	20-5	20-6	20-6	20-7	20-8	20-8	20-9	20-10	20-10	20-11
325.00	24-0	24-1	24-2	24-2	24-3	24-4	24-5	24-5	24-6	24-7
350.00	27-10	27-11	28-0	28-1	28-2	28-3	28-4	28-5	28-6	28-7
375.00	32-0	32-1	32-2	32-3	32-5	32-6	32-7	32-8	32-9	32-10
400.00	36-6	36-7	36-8	36-9	36-11	37-0	37-1	37-2	37-3	37-5
425.00	41-3	41-4	41-6	41-7	41-8	41-10	41-11	42-0	42-2	42-3
450.00	46-4	46-5	46-7	46-8	46-10	46-11	47-1	47-2	47-4	47-6
475.00	51-8	51-10	52-0	52-1	52-3	52-5	52-6	52-8	52-10	53-0
500.00	57-4	57-6	57-8	57-10	58-0	58-2	58-4	58-6	58-8	58-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	14-5	14-6	14-6	14-6	14-7	14-7	14-7	14-7	14-8	14-8
275.00	17-6	17-6	17-7	17-7	17-8	17-8	17-8	17-9	17-9	17-9
300.00	20-10	20-11	20-11	21-0	21-0	21-0	21-1	21-1	21-2	21-2
325.00	24-6	24-7	24-7	24-8	24-8	24-9	24-9	24-10	24-10	24-10
350.00	28-5	28-6	28-7	28-7	28-8	28-8	28-9	28-9	28-10	28-11
375.00	32-8	32-9	32-10	32-10	32-11	33-0	33-0	33-1	33-2	33-2
400.00	37-3	37-4	37-5	37-5	37-6	37-7	37-8	37-8	37-9	37-10
425.00	42-2	42-2	42-3	42-4	42-5	42-6	42-7	42-8	42-8	42-9
450.00	47-4	47-5	47-6	47-7	47-7	47-8	47-9	47-10	47-11	48-0
475.00	52-9	52-11	53-0	53-1	53-2	53-3	53-4	53-5	53-6	53-7
500.00	58-7	58-8	58-10	58-11	59-0	59-1	59-2	59-4	59-5	59-6
525.00	64-9	64-10	64-11	65-1	65-2	65-3	65-5	65-6	65-7	65-9
550.00	71-2	71-3	71-5	71-6	71-8	71-9	71-11	72-0	72-2	72-3
575.00	77-11	78-1	78-2	78-4	78-6	78-7	78-9	78-10	79-0	79-2
600.00	85-0	85-2	85-4	85-6	85-7	85-9	85-11	86-1	86-3	86-4
625.00	92-6	92-8	92-9	92-11	93-1	93-3	93-5	93-7	93-9	93-11

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	14-7	14-7	14-7	14-8	14-8	14-8	14-9	14-9	14-9	14-9
275.00	17-8	17-8	17-9	17-9	17-9	17-10	17-10	17-10	17-11	17-11
300.00	21-0	21-1	21-1	21-2	21-2	21-2	21-3	21-3	21-4	21-4
325.00	24-8	24-9	24-9	24-10	24-10	24-11	24-11	25-0	25-0	25-1
350.00	28-8	28-9	28-9	28-10	28-11	28-11	29-0	29-0	29-1	29-1
375.00	33-0	33-0	33-1	33-2	33-2	33-3	33-4	33-4	33-5	33-6
400.00	37-7	37-8	37-8	37-9	37-10	37-11	37-11	38-0	38-1	38-2
425.00	42-6	42-7	42-7	42-8	42-9	42-10	42-11	43-0	43-1	43-1
450.00	47-8	47-9	47-10	47-11	48-0	48-1	48-2	48-3	48-4	48-5
475.00	53-3	53-4	53-5	53-6	53-7	53-8	53-9	53-10	53-11	54-0
500.00	59-1	59-2	59-3	59-5	59-6	59-7	59-8	59-9	59-11	60-0
525.00	65-3	65-4	65-6	65-7	65-8	65-10	65-11	66-0	66-2	66-3
550.00	71-9	71-11	72-0	72-2	72-3	72-4	72-6	72-7	72-9	72-10
575.00	78-7	78-9	78-10	79-0	79-2	79-3	79-5	79-6	79-8	79-10
600.00	85-9	85-11	86-1	86-2	86-4	86-6	86-8	86-9	86-11	87-1
625.00	93-3	93-5	93-7	93-9	93-11	94-1	94-3	94-5	94-6	94-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

TABLE OF CONTENTS

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	2.923	2.03	1800	2.03	1800*
0	0	0	0	0.111	0.15	906	0.12	1203
30	0	0	0	0.111	0.22	617	0.14	987
40	0	0	0	0.111	0.26	524	0.15	914
50	0	0	0	0.111	0.32	433	0.17	839
60	0	0	0	0.111	0.40	347	0.18	764
70	0	0	0	0.111	0.51	271	0.20	689
80	0	0	0	0.111	0.66	211	0.23	612
90	0	0	0	0.111	0.83	168	0.26	536
100	0	0	0	0.111	1.00	139	0.30	461
110	0	0	0	0.111	1.17	119	0.36	387
120	0	0	0	0.111	1.32	105	0.44	317
130	0	0	0	0.111	1.47	95	0.54	255
167	0	0	0	0.111	1.93	72	1.12	124
212	0	0	0	0.111	2.38	58	1.74	80

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	2.923	8.17	1800	8.17	1800*
0	0	0	0	0.111	5.94	94	4.98	112
30	0	0	0	0.111	6.37	87	5.48	102
40	0	0	0	0.111	6.51	86	5.63	99
50	0	0	0	0.111	6.65	84	5.79	96
60	0	0	0	0.111	6.78	82	5.94	94
70	0	0	0	0.111	6.91	81	6.08	92
80	0	0	0	0.111	7.04	79	6.22	90
90	0	0	0	0.111	7.16	78	6.37	88
100	0	0	0	0.111	7.29	77	6.50	86
110	0	0	0	0.111	7.41	75	6.64	84
120	0	0	0	0.111	7.53	74	6.77	82
130	0	0	0	0.111	7.64	73	6.90	81
167	0	0	0	0.111	8.07	69	7.36	76
212	0	0	0	0.111	8.55	65	7.89	71

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	2.923	18.55	1800	18.55	1800*
0	0	0	0	0.111	16.49	77	15.72	80
30	0	0	0	0.111	16.86	75	16.11	78
40	0	0	0	0.111	16.98	74	16.23	78
50	0	0	0	0.111	17.10	74	16.36	77
60	0	0	0	0.111	17.22	73	16.48	77
70	0	0	0	0.111	17.33	73	16.60	76
80	0	0	0	0.111	17.45	73	16.73	76
90	0	0	0	0.111	17.57	72	16.85	75
100	0	0	0	0.111	17.68	72	16.97	75
110	0	0	0	0.111	17.80	71	17.09	74
120	0	0	0	0.111	17.91	71	17.21	74
130	0	0	0	0.111	18.03	70	17.32	73
167	0	0	0	0.111	18.44	69	17.75	71
212	0	0	0	0.111	18.93	67	18.26	69

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	2.923	33.38	1800	33.38	1800*
0	0	0	0	0.111	31.38	72	30.66	74
30	0	0	0	0.111	31.73	72	31.01	73
40	0	0	0	0.111	31.84	71	31.13	73
50	0	0	0	0.111	31.96	71	31.25	73
60	0	0	0	0.111	32.07	71	31.37	73
70	0	0	0	0.111	32.19	71	31.48	72
80	0	0	0	0.111	32.30	71	31.60	72
90	0	0	0	0.111	32.41	70	31.72	72
100	0	0	0	0.111	32.53	70	31.83	72
110	0	0	0	0.111	32.64	70	31.95	71
120	0	0	0	0.111	32.75	70	32.06	71
130	0	0	0	0.111	32.87	69	32.18	71
167	0	0	0	0.111	33.28	69	32.60	70
212	0	0	0	0.111	33.77	68	33.10	69

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	2.923	53.04	1800	53.04	1800*
0	0	0	0	0.111	51.06	71	50.36	72
30	0	0	0	0.111	51.40	70	50.70	71
40	0	0	0	0.111	51.51	70	50.82	71
50	0	0	0	0.111	51.62	70	50.93	71
60	0	0	0	0.111	51.74	70	51.05	71
70	0	0	0	0.111	51.85	70	51.16	71
80	0	0	0	0.111	51.96	70	51.27	71
90	0	0	0	0.111	52.07	70	51.39	70
100	0	0	0	0.111	52.19	69	51.50	70
110	0	0	0	0.111	52.30	69	51.61	70
120	0	0	0	0.111	52.41	69	51.73	70
130	0	0	0	0.111	52.52	69	51.84	70
167	0	0	0	0.111	52.93	68	52.25	69
212	0	0	0	0.111	53.43	68	52.76	69

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4
125.00	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7
150.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10
175.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-10	0-11	1-1
200.00	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-5

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-6	0-7	0-8
100.00	0-2	0-3	0-3	0-4	0-5	0-6	0-8	0-10	1-0	1-2
125.00	0-4	0-4	0-5	0-6	0-7	0-10	1-0	1-4	1-7	1-10
150.00	0-5	0-6	0-7	0-9	0-11	1-2	1-6	1-10	2-3	2-8
175.00	0-7	0-8	0-10	1-0	1-3	1-7	2-0	2-6	3-1	3-7
200.00	0-9	0-11	1-1	1-3	1-7	2-1	2-8	3-4	4-0	4-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.45

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-7	1-8
125.00	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-6	2-6	2-7
150.00	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
175.00	4-1	4-2	4-4	4-5	4-7	4-8	4-9	4-10	5-0	5-1
200.00	5-4	5-6	5-8	5-9	5-11	6-1	6-3	6-4	6-6	6-8
225.00	6-9	6-11	7-2	7-4	7-6	7-8	7-11	8-1	8-3	8-5
250.00	8-4	8-7	8-10	9-1	9-3	9-6	9-9	9-11	10-2	10-5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-7	1-7	1-8	1-8	1-8	1-9	1-9	1-9	1-10	1-10
125.00	2-5	2-6	2-6	2-7	2-8	2-8	2-9	2-10	2-10	2-11
150.00	3-6	3-7	3-8	3-9	3-10	3-11	3-11	4-0	4-1	4-2
175.00	4-9	4-11	5-0	5-1	5-2	5-3	5-5	5-6	5-7	5-8
200.00	6-3	6-4	6-6	6-8	6-9	6-11	7-0	7-2	7-3	7-5
225.00	7-11	8-1	8-3	8-5	8-7	8-9	8-11	9-1	9-3	9-5
250.00	9-9	10-0	10-2	10-5	10-7	10-10	11-0	11-2	11-5	11-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.46

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-2	4-3	4-3
175.00	5-5	5-6	5-6	5-7	5-7	5-8	5-8	5-9	5-9	5-10
200.00	7-1	7-2	7-2	7-3	7-4	7-4	7-5	7-6	7-6	7-7
225.00	9-0	9-1	9-1	9-2	9-3	9-4	9-5	9-6	9-6	9-7
250.00	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10
275.00	13-5	13-6	13-8	13-9	13-10	13-11	14-1	14-2	14-3	14-4
300.00	16-0	16-1	16-3	16-4	16-6	16-7	16-9	16-10	17-0	17-1
325.00	18-9	18-11	19-1	19-3	19-4	19-6	19-8	19-9	19-11	20-1
350.00	21-9	21-11	22-1	22-4	22-6	22-8	22-10	23-0	23-2	23-4
375.00	25-0	25-3	25-5	25-7	25-10	26-0	26-2	26-5	26-7	26-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-5	4-5	4-5
175.00	5-8	5-9	5-9	5-10	5-10	5-11	5-11	6-0	6-0	6-0
200.00	7-5	7-6	7-6	7-7	7-8	7-8	7-9	7-9	7-10	7-11
225.00	9-5	9-6	9-6	9-7	9-8	9-9	9-10	9-10	9-11	10-0
250.00	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-4
275.00	14-1	14-2	14-3	14-4	14-5	14-7	14-8	14-9	14-10	14-11
300.00	16-9	16-10	17-0	17-1	17-3	17-4	17-5	17-7	17-8	17-10
325.00	19-8	19-10	19-11	20-1	20-3	20-4	20-6	20-8	20-9	20-11
350.00	22-10	23-0	23-2	23-4	23-6	23-8	23-9	23-11	24-1	24-3
375.00	26-3	26-5	26-7	26-9	27-0	27-2	27-4	27-6	27-8	27-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.47

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-8	7-8	7-9	7-9	7-10	7-10	7-10	7-11	7-11	7-11
225.00	9-9	9-9	9-10	9-10	9-10	9-11	9-11	10-0	10-0	10-1
250.00	12-0	12-1	12-1	12-2	12-2	12-3	12-3	12-4	12-4	12-5
275.00	14-7	14-7	14-8	14-8	14-9	14-10	14-10	14-11	15-0	15-0
300.00	17-4	17-5	17-5	17-6	17-7	17-8	17-9	17-9	17-10	17-11
325.00	20-4	20-5	20-6	20-7	20-8	20-9	20-10	20-11	20-11	21-0
350.00	23-7	23-8	23-9	23-11	24-0	24-1	24-2	24-3	24-4	24-5
375.00	27-2	27-3	27-4	27-5	27-7	27-8	27-9	27-10	27-11	28-1
400.00	30-11	31-0	31-2	31-3	31-4	31-6	31-7	31-9	31-10	31-11
425.00	34-11	35-1	35-2	35-4	35-5	35-7	35-9	35-10	36-0	36-1
450.00	39-2	39-4	39-6	39-8	39-9	39-11	40-1	40-3	40-5	40-6
475.00	43-8	43-11	44-1	44-3	44-5	44-7	44-9	44-11	45-0	45-2
500.00	48-6	48-8	48-10	49-1	49-3	49-5	49-7	49-9	50-0	50-2

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-10	7-11	7-11	7-11	8-0	8-0	8-0	8-1	8-1	8-1
225.00	9-11	10-0	10-0	10-1	10-1	10-2	10-2	10-2	10-3	10-3
250.00	12-3	12-4	12-5	12-5	12-6	12-6	12-7	12-7	12-8	12-8
275.00	14-11	14-11	15-0	15-0	15-1	15-2	15-2	15-3	15-4	15-4
300.00	17-9	17-9	17-10	17-11	18-0	18-0	18-1	18-2	18-3	18-3
325.00	20-10	20-11	21-0	21-0	21-1	21-2	21-3	21-4	21-5	21-6
350.00	24-2	24-3	24-4	24-5	24-6	24-7	24-8	24-9	24-10	24-11
375.00	27-9	27-10	28-0	28-1	28-2	28-3	28-4	28-6	28-7	28-8
400.00	31-7	31-9	31-10	31-11	32-1	32-2	32-4	32-5	32-6	32-8
425.00	35-9	35-10	36-0	36-1	36-3	36-5	36-6	36-8	36-9	36-11
450.00	40-1	40-3	40-5	40-6	40-8	40-10	41-0	41-1	41-3	41-5
475.00	44-9	44-11	45-1	45-3	45-5	45-7	45-9	45-10	46-0	46-2
500.00	49-7	49-10	50-0	50-2	50-4	50-6	50-9	50-11	51-1	51-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	12-6	12-7	12-7	12-7	12-8	12-8	12-8	12-9	12-9	12-9
275.00	15-2	15-2	15-3	15-3	15-4	15-4	15-4	15-5	15-5	15-6
300.00	18-1	18-1	18-2	18-2	18-3	18-3	18-4	18-4	18-5	18-5
325.00	21-3	21-3	21-4	21-4	21-5	21-5	21-6	21-6	21-7	21-8
350.00	24-7	24-8	24-9	24-9	24-10	24-11	24-11	25-0	25-1	25-1
375.00	28-3	28-4	28-5	28-6	28-7	28-7	28-8	28-9	28-10	28-10
400.00	32-3	32-4	32-4	32-5	32-6	32-7	32-8	32-9	32-10	32-10
425.00	36-5	36-6	36-7	36-8	36-9	36-10	36-11	37-0	37-1	37-2
450.00	40-10	41-0	41-1	41-2	41-3	41-4	41-5	41-6	41-7	41-8
475.00	45-7	45-8	45-10	45-11	46-0	46-1	46-3	46-4	46-5	46-6
500.00	50-7	50-8	50-10	50-11	51-1	51-2	51-3	51-5	51-6	51-7
525.00	55-10	56-0	56-1	56-3	56-4	56-6	56-7	56-9	56-10	57-0
550.00	61-5	61-6	61-8	61-10	61-11	62-1	62-3	62-4	62-6	62-8
575.00	67-2	67-4	67-6	67-8	67-10	67-11	68-1	68-3	68-5	68-7
600.00	73-3	73-5	73-7	73-9	73-11	74-1	74-3	74-5	74-7	74-9
625.00	79-8	79-10	80-0	80-2	80-4	80-7	80-9	80-11	81-1	81-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	12-8	12-9	12-9	12-9	12-10	12-10	12-10	12-11	12-11	12-11
275.00	15-4	15-5	15-5	15-6	15-6	15-6	15-7	15-7	15-8	15-8
300.00	18-4	18-4	18-5	18-5	18-6	18-6	18-6	18-7	18-7	18-8
325.00	21-6	21-7	21-7	21-8	21-8	21-9	21-9	21-10	21-10	21-11
350.00	24-11	25-0	25-1	25-1	25-2	25-3	25-3	25-4	25-5	25-5
375.00	28-8	28-9	28-10	28-10	28-11	29-0	29-1	29-1	29-2	29-3
400.00	32-8	32-9	32-10	32-11	32-11	33-0	33-1	33-2	33-3	33-4
425.00	36-11	37-0	37-1	37-2	37-3	37-4	37-5	37-6	37-7	37-8
450.00	41-5	41-6	41-7	41-8	41-10	41-11	42-0	42-1	42-2	42-3
475.00	46-3	46-4	46-5	46-6	46-8	46-9	46-10	46-11	47-0	47-2
500.00	51-3	51-5	51-6	51-7	51-9	51-10	52-0	52-1	52-2	52-4
525.00	56-7	56-9	56-10	57-0	57-1	57-3	57-4	57-6	57-7	57-9
550.00	62-3	62-4	62-6	62-8	62-9	62-11	63-1	63-2	63-4	63-6
575.00	68-1	68-3	68-5	68-7	68-9	68-11	69-0	69-2	69-4	69-6
600.00	74-4	74-6	74-8	74-9	74-11	75-1	75-3	75-5	75-7	75-9
625.00	80-9	80-11	81-1	81-3	81-6	81-8	81-10	82-0	82-2	82-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.49

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.317	0.44	911	0.33	1200*
20	0	0	0	0.111	0.12	1167	0.10	1392
30	0	0	0	0.111	0.13	1069	0.10	1324
40	0	0	0	0.111	0.14	972	0.11	1255
50	0	0	0	0.111	0.16	875	0.12	1185
60	0	0	0	0.111	0.18	778	0.12	1114
70	0	0	0	0.111	0.20	683	0.13	1042
80	0	0	0	0.111	0.24	588	0.14	969
90	0	0	0	0.111	0.28	495	0.15	895
100	0	0	0	0.111	0.34	405	0.17	821
110	0	0	0	0.111	0.43	322	0.19	745
120	0	0	0	0.111	0.55	250	0.21	669
130	0	0	0	0.111	0.71	195	0.23	593
167	0	0	0	0.111	1.32	105	0.43	321
212	0	0	0	0.111	1.91	73	1.08	129

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.317	1.64	969	1.32	1200*
20	0	0	0	0.111	0.49	1131	0.41	1347
30	0	0	0	0.111	0.54	1035	0.43	1279
40	0	0	0	0.111	0.59	941	0.46	1210
50	0	0	0	0.111	0.66	847	0.49	1141
60	0	0	0	0.111	0.74	755	0.52	1070
70	0	0	0	0.111	0.83	665	0.56	998
80	0	0	0	0.111	0.96	580	0.60	927
90	0	0	0	0.111	1.11	499	0.65	854
100	0	0	0	0.111	1.30	426	0.71	782
110	0	0	0	0.111	1.53	363	0.78	709
120	0	0	0	0.111	1.79	311	0.87	638
130	0	0	0	0.111	2.06	270	0.98	568
167	0	0	0	0.111	3.05	182	1.61	345
212	0	0	0	0.111	4.07	137	2.75	202

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.50

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.317	3.46	1032	2.97	1200*
20	0	0	0	0.111	1.17	1070	0.98	1274
30	0	0	0	0.111	1.28	979	1.04	1206
40	0	0	0	0.111	1.40	889	1.10	1137
50	0	0	0	0.111	1.56	802	1.17	1068
60	0	0	0	0.111	1.74	718	1.25	999
70	0	0	0	0.111	1.95	640	1.34	929
80	0	0	0	0.111	2.20	567	1.45	860
90	0	0	0	0.111	2.49	501	1.58	791
100	0	0	0	0.111	2.81	444	1.73	724
110	0	0	0	0.111	3.15	396	1.90	658
120	0	0	0	0.111	3.51	356	2.10	595
130	0	0	0	0.111	3.87	322	2.33	536
167	0	0	0	0.111	5.17	242	3.43	365
212	0	0	0	0.111	6.54	191	4.94	253

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.317	5.84	1087	5.29	1200*
20	0	0	0	0.111	2.25	986	1.89	1173
30	0	0	0	0.111	2.46	901	2.01	1106
40	0	0	0	0.111	2.71	821	2.14	1039
50	0	0	0	0.111	2.98	744	2.28	972
60	0	0	0	0.111	3.30	673	2.45	906
70	0	0	0	0.111	3.65	608	2.64	841
80	0	0	0	0.111	4.03	550	2.86	777
90	0	0	0	0.111	4.44	500	3.10	716
100	0	0	0	0.111	4.87	456	3.38	658
110	0	0	0	0.111	5.31	418	3.68	603
120	0	0	0	0.111	5.75	387	4.02	552
130	0	0	0	0.111	6.18	359	4.38	507
167	0	0	0	0.111	7.72	288	5.86	379
212	0	0	0	0.111	9.40	237	7.68	290

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 51 OF 145

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.51

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.317	8.79	1128	8.27	1200*
20	0	0	0	0.111	3.93	884	3.31	1050
30	0	0	0	0.111	4.28	811	3.52	986
40	0	0	0	0.111	4.67	743	3.76	923
50	0	0	0	0.111	5.09	681	4.02	862
60	0	0	0	0.111	5.55	625	4.32	803
70	0	0	0	0.111	6.03	576	4.65	746
80	0	0	0	0.111	6.52	532	5.01	693
90	0	0	0	0.111	7.03	494	5.40	643
100	0	0	0	0.111	7.54	460	5.81	597
110	0	0	0	0.111	8.05	431	6.25	555
120	0	0	0	0.111	8.55	406	6.70	518
130	0	0	0	0.111	9.05	384	7.17	484
167	0	0	0	0.111	10.79	322	8.93	389
212	0	0	0	0.111	12.71	274	10.98	317

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5
125.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8
150.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-8	0-9	1-0
175.00	0-4	0-5	0-5	0-6	0-7	0-7	0-9	0-10	1-1	1-4
200.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-4	1-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.53

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
200.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9
225.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0
250.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5
125.00	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7
150.00	0-3	0-4	0-4	0-4	0-5	0-6	0-6	0-8	0-9	0-10
175.00	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-2
200.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-4	1-6
225.00	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-8	1-11
250.00	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-9	2-0	2-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.54

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8
200.00	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10
225.00	0-7	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
250.00	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-4
275.00	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7
300.00	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-9	1-11
325.00	1-2	1-3	1-3	1-4	1-6	1-7	1-8	1-10	2-0	2-3
350.00	1-4	1-5	1-6	1-7	1-8	1-10	2-0	2-2	2-4	2-7
375.00	1-6	1-7	1-9	1-10	1-11	2-1	2-3	2-6	2-8	3-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1
200.00	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-5
225.00	0-8	0-9	0-9	0-11	1-0	1-1	1-3	1-5	1-7	1-9
250.00	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-9	1-11	2-2
275.00	1-0	1-1	1-2	1-4	1-6	1-8	1-10	2-1	2-4	2-8
300.00	1-2	1-3	1-5	1-7	1-9	1-11	2-2	2-6	2-10	3-2
325.00	1-4	1-6	1-8	1-10	2-0	2-4	2-7	2-11	3-4	3-8
350.00	1-7	1-9	1-11	2-1	2-4	2-8	3-0	3-5	3-10	4-4
375.00	1-10	2-0	2-2	2-5	2-9	3-1	3-5	3-11	4-5	4-11

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STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.55

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11
225.00	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2
250.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-3	1-4	1-5
275.00	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9
300.00	1-1	1-2	1-2	1-3	1-5	1-6	1-7	1-9	1-11	2-1
325.00	1-3	1-4	1-5	1-6	1-7	1-9	1-11	2-1	2-3	2-5
350.00	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-4	2-7	2-10
375.00	1-8	1-9	1-11	2-0	2-2	2-4	2-6	2-9	3-0	3-3
400.00	1-11	2-0	2-2	2-3	2-5	2-8	2-10	3-1	3-5	3-8
425.00	2-2	2-3	2-5	2-7	2-9	3-0	3-3	3-6	3-10	4-2
450.00	2-5	2-6	2-8	2-11	3-1	3-4	3-7	3-11	4-3	4-8
475.00	2-8	2-10	3-0	3-3	3-5	3-9	4-0	4-4	4-9	5-2
500.00	2-11	3-2	3-4	3-7	3-10	4-2	4-6	4-10	5-3	5-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4
225.00	0-9	0-9	0-10	0-11	1-1	1-2	1-3	1-5	1-6	1-8
250.00	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	1-11	2-1
275.00	1-1	1-2	1-3	1-5	1-7	1-9	1-11	2-1	2-4	2-6
300.00	1-3	1-5	1-6	1-8	1-10	2-1	2-3	2-6	2-9	3-0
325.00	1-6	1-8	1-9	2-0	2-2	2-5	2-8	2-11	3-3	3-6
350.00	1-9	1-11	2-1	2-3	2-6	2-10	3-1	3-5	3-9	4-1
375.00	2-0	2-2	2-5	2-7	2-11	3-3	3-7	3-11	4-3	4-8
400.00	2-3	2-6	2-8	3-0	3-4	3-8	4-0	4-5	4-10	5-4
425.00	2-7	2-9	3-1	3-4	3-9	4-1	4-7	5-0	5-6	6-0
450.00	2-10	3-1	3-5	3-9	4-2	4-7	5-1	5-8	6-2	6-9
475.00	3-2	3-6	3-10	4-2	4-8	5-2	5-8	6-3	6-10	7-6
500.00	3-6	3-10	4-3	4-8	5-2	5-8	6-4	6-11	7-7	8-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.56

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7
275.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11
300.00	1-2	1-3	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-3
325.00	1-5	1-6	1-7	1-8	1-10	2-0	2-1	2-3	2-5	2-8
350.00	1-7	1-9	1-10	2-0	2-1	2-3	2-5	2-8	2-10	3-1
375.00	1-10	2-0	2-1	2-3	2-5	2-7	2-10	3-0	3-3	3-6
400.00	2-1	2-3	2-5	2-7	2-9	3-0	3-2	3-5	3-9	4-0
425.00	2-5	2-7	2-9	2-11	3-1	3-4	3-7	3-11	4-2	4-6
450.00	2-8	2-10	3-1	3-3	3-6	3-9	4-1	4-4	4-8	5-1
475.00	3-0	3-2	3-5	3-8	3-11	4-2	4-6	4-10	5-3	5-8
500.00	3-4	3-6	3-9	4-0	4-4	4-8	5-0	5-5	5-10	6-3
525.00	3-8	3-11	4-2	4-5	4-9	5-2	5-6	5-11	6-5	6-11
550.00	4-0	4-3	4-7	4-10	5-3	5-7	6-1	6-6	7-0	7-7
575.00	4-4	4-8	5-0	5-4	5-9	6-2	6-7	7-2	7-8	8-3
600.00	4-9	5-1	5-5	5-10	6-3	6-8	7-3	7-9	8-4	9-0
625.00	5-2	5-6	5-10	6-3	6-9	7-3	7-10	8-5	9-1	9-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-0
275.00	1-2	1-4	1-5	1-6	1-8	1-10	2-0	2-2	2-3	2-5
300.00	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-9	2-11
325.00	1-8	1-10	2-0	2-2	2-4	2-7	2-9	3-0	3-2	3-5
350.00	1-11	2-1	2-3	2-6	2-9	2-11	3-2	3-5	3-8	3-11
375.00	2-3	2-5	2-8	2-10	3-1	3-5	3-8	3-11	4-3	4-6
400.00	2-6	2-9	3-0	3-3	3-7	3-10	4-2	4-6	4-10	5-2
425.00	2-10	3-1	3-4	3-8	4-0	4-4	4-9	5-1	5-5	5-10
450.00	3-2	3-6	3-9	4-2	4-6	4-11	5-3	5-8	6-1	6-6
475.00	3-7	3-10	4-3	4-7	5-0	5-5	5-11	6-4	6-10	7-3
500.00	3-11	4-3	4-8	5-1	5-7	6-0	6-6	7-0	7-6	8-1
525.00	4-4	4-9	5-2	5-7	6-1	6-8	7-2	7-9	8-4	8-10
550.00	4-9	5-2	5-8	6-2	6-9	7-4	7-11	8-6	9-2	9-9
575.00	5-2	5-8	6-2	6-9	7-4	8-0	8-8	9-4	10-0	10-8
600.00	5-8	6-2	6-9	7-4	8-0	8-8	9-5	10-2	10-10	11-7
625.00	6-2	6-8	7-4	8-0	8-8	9-5	10-2	11-0	11-9	12-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.57

TABLE OF CONTENTS

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.317	0.34	1163	0.25	1600*
20	0	0	0	0.111	0.10	1433	0.08	1778
30	0	0	0	0.111	0.10	1336	0.08	1718
40	0	0	0	0.111	0.11	1238	0.08	1655
50	0	0	0	0.111	0.12	1140	0.09	1592
60	0	0	0	0.111	0.13	1043	0.09	1528
70	0	0	0	0.111	0.15	946	0.09	1462
80	0	0	0	0.111	0.16	849	0.10	1396
90	0	0	0	0.111	0.18	753	0.10	1328
100	0	0	0	0.111	0.21	657	0.11	1259
110	0	0	0	0.111	0.25	562	0.12	1189
120	0	0	0	0.111	0.30	470	0.12	1118
130	0	0	0	0.111	0.36	382	0.13	1046
167	0	0	0	0.111	0.88	158	0.18	772
212	0	0	0	0.111	1.57	88	0.32	431

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.317	1.31	1207	0.99	1600*
20	0	0	0	0.111	0.39	1416	0.32	1756
30	0	0	0	0.111	0.42	1319	0.33	1695
40	0	0	0	0.111	0.45	1223	0.34	1633
50	0	0	0	0.111	0.49	1127	0.35	1569
60	0	0	0	0.111	0.54	1031	0.37	1505
70	0	0	0	0.111	0.59	937	0.39	1439
80	0	0	0	0.111	0.66	843	0.40	1373
90	0	0	0	0.111	0.74	751	0.43	1305
100	0	0	0	0.111	0.84	662	0.45	1236
110	0	0	0	0.111	0.96	576	0.48	1167
120	0	0	0	0.111	1.12	496	0.51	1097
130	0	0	0	0.111	1.31	423	0.54	1025
167	0	0	0	0.111	2.26	245	0.73	758
212	0	0	0	0.111	3.42	162	1.24	449

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.58

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.317	2.82	1266	2.23	1600*
20	0	0	0	0.111	0.90	1387	0.73	1719
30	0	0	0	0.111	0.97	1292	0.75	1658
40	0	0	0	0.111	1.04	1197	0.78	1595
50	0	0	0	0.111	1.13	1104	0.82	1532
60	0	0	0	0.111	1.23	1012	0.85	1467
70	0	0	0	0.111	1.36	922	0.89	1401
80	0	0	0	0.111	1.50	833	0.94	1335
90	0	0	0	0.111	1.67	748	0.99	1268
100	0	0	0	0.111	1.87	668	1.04	1200
110	0	0	0	0.111	2.11	593	1.10	1131
120	0	0	0	0.111	2.38	524	1.18	1062
130	0	0	0	0.111	2.69	464	1.26	992
167	0	0	0	0.111	4.00	313	1.69	738
212	0	0	0	0.111	5.53	226	2.67	467

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.317	4.78	1326	3.96	1600*
20	0	0	0	0.111	1.65	1346	1.33	1667
30	0	0	0	0.111	1.77	1253	1.38	1605
40	0	0	0	0.111	1.91	1162	1.44	1542
50	0	0	0	0.111	2.07	1073	1.50	1479
60	0	0	0	0.111	2.25	986	1.57	1414
70	0	0	0	0.111	2.46	901	1.65	1349
80	0	0	0	0.111	2.71	820	1.73	1283
90	0	0	0	0.111	2.99	744	1.83	1216
100	0	0	0	0.111	3.30	673	1.93	1150
110	0	0	0	0.111	3.65	608	2.05	1083
120	0	0	0	0.111	4.04	550	2.19	1016
130	0	0	0	0.111	4.45	500	2.34	949
167	0	0	0	0.111	6.06	367	3.11	713
212	0	0	0	0.111	7.92	281	4.59	484

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 59 OF 145

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.59

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.317	7.17	1383	6.20	1600*
20	0	0	0	0.111	2.68	1293	2.17	1600
30	0	0	0	0.111	2.88	1204	2.26	1538
40	0	0	0	0.111	3.10	1118	2.35	1475
50	0	0	0	0.111	3.36	1034	2.46	1412
60	0	0	0	0.111	3.64	953	2.57	1348
70	0	0	0	0.111	3.96	876	2.70	1283
80	0	0	0	0.111	4.31	804	2.85	1218
90	0	0	0	0.111	4.71	737	3.01	1154
100	0	0	0	0.111	5.14	676	3.19	1089
110	0	0	0	0.111	5.59	620	3.39	1025
120	0	0	0	0.111	6.07	571	3.61	961
130	0	0	0	0.111	6.57	528	3.86	899
167	0	0	0	0.111	8.45	411	5.04	689
212	0	0	0	0.111	10.61	328	6.98	497

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.61

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6
225.00	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7
250.00	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8	0-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-5
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0
225.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-3
250.00	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-4	1-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.62

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5
200.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6
225.00	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-7
250.00	0-6	0-6	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9
275.00	0-7	0-8	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11
300.00	0-9	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1
325.00	0-10	0-11	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4
350.00	1-0	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6
375.00	1-2	1-2	1-3	1-3	1-4	1-5	1-6	1-6	1-8	1-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-6
175.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11
225.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-2
250.00	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-4	1-6
275.00	0-9	0-10	0-11	0-11	1-0	1-2	1-3	1-5	1-7	1-9
300.00	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-1
325.00	1-1	1-2	1-3	1-4	1-5	1-7	1-9	1-11	2-2	2-6
350.00	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-3	2-7	2-10
375.00	1-5	1-6	1-8	1-9	1-11	2-1	2-4	2-7	2-11	3-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-5	0-6	0-6
225.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8
250.00	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10
275.00	0-8	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	1-0
300.00	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2
325.00	0-11	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4
350.00	1-0	1-1	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-7
375.00	1-2	1-3	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-10
400.00	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-1
425.00	1-6	1-7	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-4
450.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-7
475.00	1-11	1-11	2-0	2-1	2-3	2-4	2-5	2-7	2-9	2-11
500.00	2-1	2-2	2-3	2-4	2-5	2-7	2-8	2-10	3-0	3-2

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11
225.00	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-1	1-2
250.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5
275.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9
300.00	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-1
325.00	1-1	1-2	1-3	1-4	1-6	1-8	1-9	2-0	2-2	2-5
350.00	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-10
375.00	1-5	1-7	1-8	1-10	2-0	2-2	2-5	2-7	2-11	3-3
400.00	1-8	1-9	1-11	2-1	2-3	2-6	2-8	3-0	3-4	3-8
425.00	1-10	2-0	2-2	2-4	2-7	2-9	3-1	3-4	3-9	4-1
450.00	2-1	2-3	2-5	2-7	2-10	3-1	3-5	3-9	4-2	4-7
475.00	2-4	2-6	2-8	2-11	3-2	3-6	3-10	4-3	4-8	5-2
500.00	2-7	2-9	3-0	3-3	3-6	3-10	4-3	4-8	5-2	5-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.64

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10
275.00	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	1-0	1-0
300.00	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-3
325.00	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-5
350.00	1-1	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-8
375.00	1-3	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-10	1-11
400.00	1-5	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-2
425.00	1-7	1-8	1-8	1-9	1-10	1-11	2-1	2-2	2-4	2-5
450.00	1-9	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-7	2-9
475.00	1-11	2-0	2-1	2-3	2-4	2-5	2-7	2-9	2-11	3-1
500.00	2-2	2-3	2-4	2-5	2-7	2-8	2-10	3-0	3-2	3-5
525.00	2-5	2-6	2-7	2-9	2-10	3-0	3-2	3-4	3-6	3-9
550.00	2-7	2-9	2-10	3-0	3-1	3-3	3-5	3-8	3-10	4-1
575.00	2-10	3-0	3-1	3-3	3-5	3-7	3-9	4-0	4-3	4-6
600.00	3-1	3-3	3-5	3-6	3-8	3-11	4-1	4-4	4-7	4-11
625.00	3-5	3-6	3-8	3-10	4-0	4-3	4-5	4-8	5-0	5-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5
275.00	0-10	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-8
300.00	1-0	1-0	1-1	1-2	1-4	1-5	1-7	1-8	1-10	2-0
325.00	1-2	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-2	2-4
350.00	1-4	1-5	1-6	1-8	1-9	1-11	2-1	2-4	2-6	2-9
375.00	1-6	1-7	1-9	1-11	2-1	2-3	2-5	2-8	2-11	3-2
400.00	1-9	1-10	2-0	2-2	2-4	2-6	2-9	3-0	3-3	3-7
425.00	1-11	2-1	2-3	2-5	2-8	2-10	3-1	3-5	3-9	4-0
450.00	2-2	2-4	2-6	2-9	2-11	3-2	3-6	3-10	4-2	4-6
475.00	2-5	2-7	2-10	3-0	3-3	3-7	3-11	4-3	4-8	5-1
500.00	2-8	2-11	3-1	3-4	3-8	4-0	4-4	4-8	5-2	5-7
525.00	3-0	3-2	3-5	3-8	4-0	4-4	4-9	5-2	5-8	6-2
550.00	3-3	3-6	3-9	4-1	4-5	4-9	5-3	5-8	6-3	6-9
575.00	3-7	3-10	4-1	4-5	4-10	5-3	5-8	6-3	6-10	7-5
600.00	3-10	4-2	4-6	4-10	5-3	5-8	6-3	6-9	7-5	8-1
625.00	4-2	4-6	4-10	5-3	5-8	6-2	6-9	7-4	8-0	8-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.317	0.3	1323	0.25	1600*
0	0	0	0	0.111	0.09	1501	0.08	1718
30	0	0	0	0.111	0.11	1208	0.09	1528
40	0	0	0	0.111	0.12	1111	0.09	1462
50	0	0	0	0.111	0.14	1013	0.1	1396
60	0	0	0	0.111	0.15	916	0.1	1328
70	0	0	0	0.111	0.17	819	0.11	1259
80	0	0	0	0.111	0.19	723	0.12	1189
90	0	0	0	0.111	0.22	628	0.12	1118
100	0	0	0	0.111	0.26	534	0.13	1046
110	0	0	0	0.111	0.31	443	0.14	973
120	0	0	0	0.111	0.39	356	0.15	900
130	0	0	0	0.111	0.5	279	0.17	825
167	0	0	0	0.111	1.1	126	0.25	544
212	0	0	0	0.111	1.74	80	0.6	233

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.317	1.17	1352	0.99	1600*
0	0	0	0	0.111	0.37	1480	0.33	1695
30	0	0	0	0.111	0.47	1191	0.37	1505
40	0	0	0	0.111	0.51	1095	0.39	1439
50	0	0	0	0.111	0.56	1000	0.4	1373
60	0	0	0	0.111	0.61	905	0.43	1305
70	0	0	0	0.111	0.68	812	0.45	1236
80	0	0	0	0.111	0.77	721	0.48	1167
90	0	0	0	0.111	0.88	633	0.51	1097
100	0	0	0	0.111	1.01	549	0.54	1025
110	0	0	0	0.111	1.18	471	0.58	954
120	0	0	0	0.111	1.38	401	0.63	881
130	0	0	0	0.111	1.62	342	0.69	809
167	0	0	0	0.111	2.63	211	1.02	546
212	0	0	0	0.111	3.72	149	1.88	296

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.66

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.317	2.57	1391	2.23	1600*
0	0	0	0	0.111	0.86	1446	0.75	1658
30	0	0	0	0.111	1.08	1162	0.85	1467
40	0	0	0	0.111	1.17	1069	0.89	1401
50	0	0	0	0.111	1.28	977	0.94	1335
60	0	0	0	0.111	1.41	887	0.99	1268
70	0	0	0	0.111	1.56	800	1.04	1200
80	0	0	0	0.111	1.74	717	1.1	1131
90	0	0	0	0.111	1.96	638	1.18	1062
100	0	0	0	0.111	2.21	566	1.26	992
110	0	0	0	0.111	2.5	500	1.35	923
120	0	0	0	0.111	2.82	443	1.46	853
130	0	0	0	0.111	3.16	395	1.59	785
167	0	0	0	0.111	4.49	278	2.28	548
212	0	0	0	0.111	5.96	210	3.63	345

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.317	4.43	1433	3.96	1600*
0	0	0	0	0.111	1.59	1396	1.38	1605
30	0	0	0	0.111	1.98	1121	1.57	1414
40	0	0	0	0.111	2.15	1033	1.65	1349
50	0	0	0	0.111	2.35	947	1.73	1283
60	0	0	0	0.111	2.57	864	1.83	1216
70	0	0	0	0.111	2.83	785	1.93	1150
80	0	0	0	0.111	3.12	711	2.05	1083
90	0	0	0	0.111	3.46	643	2.19	1016
100	0	0	0	0.111	3.82	581	2.34	949
110	0	0	0	0.111	4.22	526	2.51	883
120	0	0	0	0.111	4.64	479	2.71	818
130	0	0	0	0.111	5.07	438	2.94	756
167	0	0	0	0.111	6.68	333	4.04	550
212	0	0	0	0.111	8.48	262	5.8	383

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.67

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.317	6.73	1473	6.2	1600*
0	0	0	0	0.111	2.6	1333	2.26	1538
30	0	0	0	0.111	3.24	1071	2.57	1348
40	0	0	0	0.111	3.51	989	2.7	1283
50	0	0	0	0.111	3.81	910	2.85	1218
60	0	0	0	0.111	4.15	836	3.01	1154
70	0	0	0	0.111	4.53	766	3.19	1089
80	0	0	0	0.111	4.94	702	3.39	1025
90	0	0	0	0.111	5.38	644	3.61	961
100	0	0	0	0.111	5.86	593	3.86	899
110	0	0	0	0.111	6.35	547	4.14	839
120	0	0	0	0.111	6.85	507	4.44	781
130	0	0	0	0.111	7.36	472	4.78	725
167	0	0	0	0.111	9.22	377	6.29	552
212	0	0	0	0.111	11.3	308	8.4	413

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
150.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8
175.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10	1-0
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.69

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
225.00	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-11

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
150.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8
175.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-11
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-2
225.00	0-7	0-7	0-8	0-8	0-9	0-10	1-0	1-1	1-3	1-6
250.00	0-8	0-9	0-10	0-10	0-11	1-1	1-2	1-4	1-7	1-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.70

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7
225.00	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11
275.00	0-8	0-9	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-2
300.00	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-3	1-4
325.00	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7
350.00	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-9	1-10
375.00	1-3	1-4	1-5	1-6	1-6	1-8	1-9	1-10	2-0	2-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-7
175.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
200.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	1-0	1-1
225.00	0-7	0-7	0-8	0-9	0-9	0-11	1-0	1-1	1-3	1-5
250.00	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-9
275.00	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-10	2-1
300.00	1-0	1-1	1-2	1-3	1-5	1-7	1-9	1-11	2-3	2-6
325.00	1-2	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-7	2-11
350.00	1-4	1-6	1-7	1-9	1-11	2-1	2-4	2-8	3-0	3-5
375.00	1-7	1-8	1-10	2-0	2-2	2-5	2-9	3-1	3-5	3-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8
225.00	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-10
250.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0
275.00	0-9	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2
300.00	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5
325.00	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-7	1-8
350.00	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11
375.00	1-4	1-5	1-5	1-6	1-7	1-8	1-10	1-11	2-1	2-3
400.00	1-6	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-4	2-6
425.00	1-8	1-9	1-10	1-11	2-1	2-2	2-4	2-6	2-8	2-10
450.00	1-11	2-0	2-1	2-2	2-4	2-5	2-7	2-9	3-0	3-2
475.00	2-1	2-3	2-4	2-5	2-7	2-9	2-11	3-1	3-4	3-7
500.00	2-4	2-5	2-7	2-8	2-10	3-0	3-2	3-5	3-8	3-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-1
225.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4
250.00	0-9	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-8
275.00	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-0
300.00	1-0	1-1	1-3	1-4	1-5	1-7	1-9	1-11	2-2	2-4
325.00	1-3	1-4	1-5	1-7	1-8	1-10	2-1	2-3	2-6	2-9
350.00	1-5	1-6	1-8	1-10	2-0	2-2	2-5	2-8	2-11	3-3
375.00	1-7	1-9	1-11	2-1	2-3	2-6	2-9	3-0	3-4	3-9
400.00	1-10	2-0	2-2	2-4	2-7	2-10	3-1	3-5	3-10	4-3
425.00	2-1	2-3	2-5	2-8	2-11	3-2	3-6	3-11	4-4	4-9
450.00	2-4	2-6	2-9	3-0	3-3	3-7	3-11	4-4	4-10	5-4
475.00	2-7	2-10	3-0	3-4	3-7	4-0	4-5	4-10	5-5	5-11
500.00	2-10	3-1	3-4	3-8	4-0	4-5	4-11	5-5	6-0	6-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.72

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-0
275.00	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3
300.00	0-11	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6
325.00	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-8	1-9
350.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0
375.00	1-5	1-5	1-6	1-7	1-8	1-10	1-11	2-0	2-2	2-4
400.00	1-7	1-8	1-9	1-10	1-11	2-0	2-2	2-4	2-6	2-8
425.00	1-9	1-10	1-11	2-1	2-2	2-4	2-5	2-7	2-9	3-0
450.00	2-0	2-1	2-2	2-4	2-5	2-7	2-9	2-11	3-2	3-4
475.00	2-3	2-4	2-5	2-7	2-9	2-11	3-1	3-3	3-6	3-9
500.00	2-5	2-7	2-8	2-10	3-0	3-2	3-5	3-7	3-10	4-2
525.00	2-9	2-10	3-0	3-2	3-4	3-6	3-9	4-0	4-3	4-7
550.00	3-0	3-1	3-3	3-5	3-8	3-10	4-1	4-4	4-8	5-0
575.00	3-3	3-5	3-7	3-9	4-0	4-3	4-6	4-9	5-1	5-6
600.00	3-6	3-8	3-11	4-1	4-4	4-7	4-11	5-2	5-7	5-11
625.00	3-10	4-0	4-3	4-5	4-8	5-0	5-3	5-8	6-0	6-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-9	0-10	0-11	0-11	1-0	1-2	1-3	1-4	1-6	1-7
275.00	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-9	1-11
300.00	1-1	1-2	1-3	1-4	1-6	1-8	1-9	1-11	2-1	2-3
325.00	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-8
350.00	1-6	1-7	1-9	1-10	2-0	2-3	2-5	2-8	2-10	3-1
375.00	1-8	1-10	2-0	2-2	2-4	2-7	2-9	3-0	3-4	3-7
400.00	1-11	2-1	2-3	2-5	2-8	2-11	3-2	3-5	3-9	4-1
425.00	2-2	2-4	2-6	2-9	3-0	3-3	3-7	3-11	4-3	4-7
450.00	2-5	2-7	2-10	3-1	3-4	3-8	4-0	4-4	4-9	5-2
475.00	2-8	2-11	3-2	3-5	3-9	4-1	4-5	4-10	5-3	5-9
500.00	3-0	3-3	3-6	3-10	4-2	4-6	4-11	5-5	5-10	6-4
525.00	3-4	3-7	3-10	4-2	4-7	5-0	5-5	5-11	6-5	7-0
550.00	3-8	3-11	4-3	4-7	5-0	5-6	6-0	6-6	7-1	7-8
575.00	4-0	4-3	4-8	5-0	5-6	6-0	6-6	7-1	7-9	8-5
600.00	4-4	4-8	5-1	5-6	6-0	6-6	7-1	7-9	8-5	9-2
625.00	4-8	5-1	5-6	5-11	6-6	7-1	7-9	8-5	9-2	9-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.73

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.317	0.27	1458	0.22	1800*
0	0	0	0	0.111	0.08	1640	0.07	1912
30	0	0	0	0.111	0.10	1347	0.08	1734
40	0	0	0	0.111	0.11	1249	0.08	1672
50	0	0	0	0.111	0.12	1151	0.09	1609
60	0	0	0	0.111	0.13	1054	0.09	1545 !
70	0	0	0	0.111	0.15	957	0.09	1480
80	0	0	0	0.111	0.16	860	0.10	1414
90	0	0	0	0.111	0.18	763	0.10	1346
100	0	0	0	0.111	0.21	668	0.11	1278
110	0	0	0	0.111	0.24	573	0.11	1208
120	0	0	0	0.111	0.29	480	0.12	1137
130	0	0	0	0.111	0.35	392	0.13	1066
167	0	0	0	0.111	0.86	162	0.18	792
212	0	0	0	0.111	1.56	89	0.31	451

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.317	1.07	1484	0.88	1800*
0	0	0	0	0.111	0.34	1625	0.29	1895
30	0	0	0	0.111	0.42	1334	0.32	1717
40	0	0	0	0.111	0.45	1237	0.34	1655
50	0	0	0	0.111	0.49	1141	0.35	1592
60	0	0	0	0.111	0.53	1046	0.36	1528
70	0	0	0	0.111	0.58	951	0.38	1462
80	0	0	0	0.111	0.65	857	0.40	1396
90	0	0	0	0.111	0.73	765	0.42	1329
100	0	0	0	0.111	0.82	675	0.44	1261
110	0	0	0	0.111	0.94	589	0.47	1191
120	0	0	0	0.111	1.09	507	0.49	1121
130	0	0	0	0.111	1.28	433	0.53	1050
167	0	0	0	0.111	2.22	250	0.71	784
212	0	0	0	0.111	3.39	164	1.18	470

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.74

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.317	2.35	1521	1.98	1800*
0	0	0	0	0.111	0.78	1599	0.67	1868
30	0	0	0	0.111	0.95	1312	0.74	1688
40	0	0	0	0.111	1.03	1218	0.77	1626
50	0	0	0	0.111	1.11	1124	0.80	1563
60	0	0	0	0.111	1.21	1032	0.83	1499
70	0	0	0	0.111	1.33	941	0.87	1434
80	0	0	0	0.111	1.47	852	0.91	1368
90	0	0	0	0.111	1.63	767	0.96	1301
100	0	0	0	0.111	1.82	685	1.01	1233
110	0	0	0	0.111	2.05	608	1.07	1165
120	0	0	0	0.111	2.32	539	1.14	1096
130	0	0	0	0.111	2.62	477	1.22	1026
167	0	0	0	0.111	3.92	319	1.62	771
212	0	0	0	0.111	5.46	229	2.54	492

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.317	4.06	1564	3.52	1800*
0	0	0	0	0.111	1.42	1563	1.21	1829
30	0	0	0	0.111	1.73	1283	1.35	1648
40	0	0	0	0.111	1.86	1191	1.40	1586
50	0	0	0	0.111	2.02	1101	1.46	1523
60	0	0	0	0.111	2.19	1013	1.52	1459
70	0	0	0	0.111	2.39	928	1.59	1394
80	0	0	0	0.111	2.63	846	1.67	1329
90	0	0	0	0.111	2.89	768	1.76	1263
100	0	0	0	0.111	3.20	695	1.86	1196
110	0	0	0	0.111	3.54	628	1.97	1129
120	0	0	0	0.111	3.91	568	2.09	1062
130	0	0	0	0.111	4.31	515	2.23	995
167	0	0	0	0.111	5.92	376	2.94	755
212	0	0	0	0.111	7.80	285	4.33	513

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 75 OF 145

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.75

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.317	6.17	1607	5.51	1800*
0	0	0	0	0.111	2.29	1517	1.95	1779
30	0	0	0	0.111	2.79	1245	2.17	1597
40	0	0	0	0.111	3.00	1158	2.26	1535
50	0	0	0	0.111	3.23	1072	2.36	1472
60	0	0	0	0.111	3.50	990	2.46	1409
70	0	0	0	0.111	3.81	911	2.58	1345
80	0	0	0	0.111	4.15	837	2.71	1280
90	0	0	0	0.111	4.52	767	2.85	1215
100	0	0	0	0.111	4.93	703	3.02	1150
110	0	0	0	0.111	5.38	645	3.20	1086
120	0	0	0	0.111	5.85	593	3.40	1022
130	0	0	0	0.111	6.34	547	3.62	958
167	0	0	0	0.111	8.22	423	4.70	739
212	0	0	0	0.111	10.40	334	6.54	531

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.76

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-3
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.77

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6
225.00	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7
250.00	0-6	0-6	0-6	0-7	0-7	0-7	0-7	0-8	0-8	0-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-3
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-6
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11
225.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2
250.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.78

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6
225.00	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7
250.00	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8	0-9
275.00	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-10	0-11
300.00	0-9	0-9	0-9	0-10	0-10	0-10	0-11	1-0	1-0	1-1
325.00	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3
350.00	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-4	1-5	1-6
375.00	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-7	0-8
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11
225.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2
250.00	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-3	1-5
275.00	0-9	0-10	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-9
300.00	0-11	0-11	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-1
325.00	1-0	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-2	2-5
350.00	1-2	1-4	1-5	1-6	1-8	1-10	2-0	2-3	2-6	2-10
375.00	1-5	1-6	1-7	1-9	1-11	2-1	2-3	2-7	2-10	3-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 79 OF 145

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.79

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6
225.00	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-7
250.00	0-6	0-6	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9
275.00	0-7	0-8	0-8	0-8	0-9	0-9	0-9	0-10	0-11	0-11
300.00	0-9	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1
325.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4
350.00	1-0	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6
375.00	1-2	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9
400.00	1-4	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10	2-0
425.00	1-6	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-3
450.00	1-8	1-8	1-9	1-10	1-11	2-0	2-1	2-3	2-4	2-6
475.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-6	2-7	2-9
500.00	2-0	2-1	2-2	2-3	2-5	2-6	2-7	2-9	2-11	3-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11
225.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
250.00	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-3	1-5
275.00	0-9	0-10	0-11	0-11	1-0	1-2	1-3	1-4	1-6	1-8
300.00	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-0
325.00	1-1	1-2	1-3	1-4	1-5	1-7	1-9	1-11	2-1	2-4
350.00	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-3	2-5	2-8
375.00	1-5	1-6	1-8	1-9	1-11	2-1	2-4	2-7	2-10	3-1
400.00	1-7	1-9	1-10	2-0	2-2	2-5	2-8	2-11	3-2	3-6
425.00	1-10	1-11	2-1	2-3	2-6	2-8	3-0	3-3	3-7	4-0
450.00	2-1	2-2	2-4	2-7	2-9	3-0	3-4	3-8	4-1	4-6
475.00	2-3	2-5	2-8	2-10	3-1	3-4	3-8	4-1	4-6	5-0
500.00	2-6	2-8	2-11	3-2	3-5	3-9	4-1	4-6	5-0	5-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.80

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-6	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10
275.00	0-8	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	1-0
300.00	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2
325.00	0-11	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4
350.00	1-0	1-1	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-7
375.00	1-2	1-3	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-10
400.00	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-1
425.00	1-6	1-7	1-8	1-8	1-9	1-10	1-11	2-1	2-2	2-4
450.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-7
475.00	1-11	2-0	2-0	2-2	2-3	2-4	2-5	2-7	2-9	2-11
500.00	2-1	2-2	2-3	2-4	2-6	2-7	2-9	2-10	3-0	3-2
525.00	2-4	2-5	2-6	2-7	2-9	2-10	3-0	3-2	3-4	3-6
550.00	2-6	2-8	2-9	2-10	3-0	3-1	3-3	3-5	3-8	3-10
575.00	2-9	2-10	3-0	3-1	3-3	3-5	3-7	3-9	4-0	4-3
600.00	3-0	3-2	3-3	3-5	3-7	3-9	3-11	4-1	4-4	4-7
625.00	3-3	3-5	3-6	3-8	3-10	4-0	4-3	4-6	4-9	5-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-8	0-8	0-9	0-10	0-11	0-11	1-0	1-2	1-3	1-4
275.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-8
300.00	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-9	1-11
325.00	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3
350.00	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-3	2-5	2-8
375.00	1-6	1-7	1-8	1-10	2-0	2-2	2-4	2-7	2-9	3-0
400.00	1-8	1-9	1-11	2-1	2-3	2-5	2-8	2-11	3-2	3-5
425.00	1-11	2-0	2-2	2-4	2-6	2-9	3-0	3-3	3-7	3-11
450.00	2-1	2-3	2-5	2-7	2-10	3-1	3-4	3-8	4-0	4-4
475.00	2-4	2-6	2-8	2-11	3-2	3-5	3-9	4-1	4-5	4-10
500.00	2-7	2-9	3-0	3-3	3-6	3-10	4-2	4-6	4-11	5-5
525.00	2-10	3-1	3-4	3-7	3-10	4-2	4-7	5-0	5-5	5-11
550.00	3-2	3-4	3-8	3-11	4-3	4-7	5-0	5-6	6-0	6-6
575.00	3-5	3-8	4-0	4-3	4-8	5-0	5-6	6-0	6-6	7-1
600.00	3-9	4-0	4-4	4-8	5-1	5-6	6-0	6-6	7-1	7-9
625.00	4-1	4-4	4-8	5-1	5-6	5-11	6-6	7-1	7-9	8-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.521	0.68	952	0.54	1200*
20	0	0	0	0.111	0.12	1147	0.10	1364
30	0	0	0	0.111	0.13	1050	0.11	1296
40	0	0	0	0.111	0.15	953	0.11	1226
50	0	0	0	0.111	0.16	856	0.12	1156
60	0	0	0	0.111	0.18	759	0.13	1084
70	0	0	0	0.111	0.21	663	0.14	1012
80	0	0	0	0.111	0.24	569	0.15	939
90	0	0	0	0.111	0.29	476	0.16	865
100	0	0	0	0.111	0.36	388	0.18	790
110	0	0	0	0.111	0.45	307	0.19	714
120	0	0	0	0.111	0.58	238	0.22	638
130	0	0	0	0.111	0.74	187	0.25	562
167	0	0	0	0.111	1.35	103	0.47	293
212	0	0	0	0.111	1.93	72	1.14	121

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.521	2.44	1066	2.17	1200*
20	0	0	0	0.111	0.53	1050	0.45	1235
30	0	0	0	0.111	0.58	955	0.48	1165
40	0	0	0	0.111	0.64	861	0.51	1095
50	0	0	0	0.111	0.72	769	0.54	1024
60	0	0	0	0.111	0.82	679	0.58	952
70	0	0	0	0.111	0.94	593	0.63	880
80	0	0	0	0.111	1.09	511	0.69	807
90	0	0	0	0.111	1.27	437	0.76	735
100	0	0	0	0.111	1.49	372	0.84	663
110	0	0	0	0.111	1.74	318	0.94	593
120	0	0	0	0.111	2.01	276	1.06	524
130	0	0	0	0.111	2.29	242	1.21	459
167	0	0	0	0.111	3.25	171	2.01	276
212	0	0	0	0.111	4.24	131	3.16	176

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 82 OF 145

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.82

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.521	5.07	1157	4.89	1200*
20	0	0	0	0.111	1.42	878	1.23	1019
30	0	0	0	0.111	1.58	792	1.32	949
40	0	0	0	0.111	1.76	709	1.42	880
50	0	0	0	0.111	1.98	630	1.54	811
60	0	0	0	0.111	2.24	558	1.68	743
70	0	0	0	0.111	2.53	494	1.85	677
80	0	0	0	0.111	2.85	438	2.04	613
90	0	0	0	0.111	3.20	391	2.26	553
100	0	0	0	0.111	3.56	351	2.51	497
110	0	0	0	0.111	3.92	319	2.80	447
120	0	0	0	0.111	4.28	292	3.10	402
130	0	0	0	0.111	4.63	270	3.43	364
167	0	0	0	0.111	5.84	214	4.68	267
212	0	0	0	0.111	7.13	176	6.09	205

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.521	8.70	1200	8.70	1200*
20	0	0	0	0.111	3.51	633	3.00	740
30	0	0	0	0.111	3.88	573	3.27	680
40	0	0	0	0.111	4.28	519	3.56	624
50	0	0	0	0.111	4.70	473	3.89	572
60	0	0	0	0.111	5.14	433	4.24	524
70	0	0	0	0.111	5.57	399	4.62	481
80	0	0	0	0.111	6.01	370	5.01	443
90	0	0	0	0.111	6.44	345	5.42	410
100	0	0	0	0.111	6.87	324	5.83	381
110	0	0	0	0.111	7.28	305	6.24	356
120	0	0	0	0.111	7.69	289	6.65	334
130	0	0	0	0.111	8.08	275	7.05	315
167	0	0	0	0.111	9.44	236	8.47	263
212	0	0	0	0.111	10.92	204	10.03	222

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.83

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.521	13.60	1200	13.60	1200*
20	0	0	0	0.111	7.96	436	6.87	506
30	0	0	0	0.111	8.46	410	7.34	473
40	0	0	0	0.111	8.96	388	7.81	444
50	0	0	0	0.111	9.45	368	8.29	419
60	0	0	0	0.111	9.92	350	8.77	396
70	0	0	0	0.111	10.39	334	9.24	376
80	0	0	0	0.111	10.84	320	9.70	358
90	0	0	0	0.111	11.29	308	10.15	342
100	0	0	0	0.111	11.72	297	10.60	328
110	0	0	0	0.111	12.14	286	11.04	315
120	0	0	0	0.111	12.56	277	11.47	303
130	0	0	0	0.111	12.96	268	11.89	292
167	0	0	0	0.111	14.38	242	13.37	260
212	0	0	0	0.111	15.96	218	15.02	232

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3
100.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5
125.00	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-5	0-7	0-8
150.00	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-10	1-0
175.00	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-11	1-1	1-5
200.00	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-5	1-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.85

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11
225.00	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-1	1-2
250.00	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-4	1-6

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5
125.00	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8
150.00	0-4	0-4	0-4	0-5	0-6	0-6	0-7	0-9	0-10	1-0
175.00	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-4
200.00	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-6	1-9
225.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-11	2-2
250.00	0-10	0-11	1-0	1-2	1-3	1-6	1-8	2-0	2-4	2-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.86

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-8
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-3
225.00	0-8	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-5	1-7
250.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	1-11
275.00	1-0	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2-4
300.00	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-3	2-6	2-10
325.00	1-5	1-7	1-8	1-10	2-0	2-2	2-5	2-8	2-11	3-3
350.00	1-8	1-9	1-11	2-1	2-3	2-6	2-9	3-1	3-5	3-10
375.00	1-11	2-1	2-3	2-5	2-8	2-11	3-2	3-6	3-11	4-4

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-4
200.00	0-8	0-8	0-9	0-11	1-0	1-1	1-3	1-5	1-7	1-9
225.00	0-10	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-0	2-2
250.00	1-0	1-1	1-3	1-5	1-7	1-9	2-0	2-3	2-6	2-9
275.00	1-2	1-4	1-6	1-8	1-11	2-1	2-5	2-8	3-0	3-4
300.00	1-5	1-7	1-9	2-0	2-3	2-6	2-10	3-2	3-7	3-11
325.00	1-8	1-10	2-1	2-4	2-8	3-0	3-4	3-9	4-2	4-7
350.00	1-11	2-2	2-5	2-8	3-1	3-5	3-11	4-4	4-10	5-4
375.00	2-3	2-6	2-9	3-1	3-6	3-11	4-5	5-0	5-7	6-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.87

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7
225.00	0-11	1-0	1-2	1-3	1-4	1-6	1-7	1-9	1-10	2-0
250.00	1-2	1-3	1-5	1-6	1-8	1-10	1-11	2-1	2-3	2-5
275.00	1-5	1-7	1-8	1-10	2-0	2-2	2-4	2-7	2-9	2-11
300.00	1-8	1-10	2-0	2-2	2-5	2-7	2-10	3-1	3-3	3-6
325.00	2-0	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-10	4-1
350.00	2-4	2-6	2-9	3-0	3-3	3-6	3-10	4-2	4-6	4-9
375.00	2-8	2-10	3-2	3-5	3-9	4-1	4-5	4-9	5-1	5-6
400.00	3-0	3-3	3-7	3-11	4-3	4-7	5-0	5-5	5-10	6-3
425.00	3-5	3-8	4-0	4-5	4-9	5-3	5-8	6-1	6-7	7-1
450.00	3-10	4-2	4-6	4-11	5-4	5-10	6-4	6-10	7-5	7-11
475.00	4-3	4-7	5-0	5-6	6-0	6-6	7-1	7-8	8-3	8-10
500.00	4-8	5-1	5-7	6-1	6-7	7-3	7-10	8-6	9-1	9-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-9	1-10
225.00	1-1	1-3	1-4	1-6	1-7	1-9	1-11	2-0	2-2	2-4
250.00	1-4	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-10
275.00	1-8	1-10	2-0	2-3	2-5	2-8	2-10	3-1	3-3	3-5
300.00	2-0	2-2	2-5	2-8	2-11	3-2	3-5	3-7	3-10	4-1
325.00	2-4	2-7	2-10	3-1	3-5	3-8	4-0	4-3	4-6	4-10
350.00	2-8	3-0	3-3	3-7	3-11	4-3	4-7	4-11	5-3	5-7
375.00	3-1	3-5	3-9	4-2	4-6	4-11	5-3	5-8	6-0	6-5
400.00	3-6	3-11	4-3	4-8	5-2	5-7	6-0	6-5	6-10	7-3
425.00	4-0	4-5	4-10	5-4	5-10	6-4	6-9	7-3	7-9	8-3
450.00	4-5	4-11	5-5	5-11	6-6	7-1	7-7	8-2	8-8	9-3
475.00	4-11	5-6	6-0	6-8	7-3	7-10	8-6	9-1	9-8	10-3
500.00	5-6	6-1	6-8	7-4	8-0	8-9	9-5	10-1	10-9	11-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-9	1-10	1-11	2-1	2-2	2-4	2-5	2-6	2-8	2-9
275.00	2-1	2-3	2-4	2-6	2-8	2-10	2-11	3-1	3-2	3-4
300.00	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10	4-0
325.00	2-11	3-1	3-4	3-6	3-8	3-11	4-1	4-3	4-6	4-8
350.00	3-4	3-7	3-10	4-1	4-4	4-6	4-9	5-0	5-2	5-5
375.00	3-10	4-2	4-5	4-8	4-11	5-2	5-5	5-9	6-0	6-2
400.00	4-5	4-8	5-0	5-4	5-7	5-11	6-2	6-6	6-9	7-1
425.00	5-0	5-4	5-8	6-0	6-4	6-8	7-0	7-4	7-8	8-0
450.00	5-7	5-11	6-4	6-9	7-1	7-6	7-10	8-3	8-7	8-11
475.00	6-2	6-7	7-1	7-6	7-11	8-4	8-9	9-2	9-7	10-0
500.00	6-10	7-4	7-10	8-3	8-9	9-3	9-8	10-2	10-7	11-0
525.00	7-7	8-1	8-7	9-2	9-8	10-2	10-8	11-2	11-8	12-2
550.00	8-4	8-11	9-5	10-0	10-7	11-2	11-9	12-3	12-10	13-4
575.00	9-1	9-8	10-4	11-0	11-7	12-3	12-10	13-5	14-0	14-7
600.00	9-11	10-7	11-3	11-11	12-8	13-4	14-0	14-8	15-3	15-11
625.00	10-9	11-6	12-3	12-11	13-8	14-5	15-2	15-10	16-7	17-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-0	2-1	2-3	2-4	2-6	2-7	2-9	2-10	2-11	3-0
275.00	2-5	2-7	2-9	2-10	3-0	3-2	3-3	3-5	3-7	3-8
300.00	2-10	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-4
325.00	3-4	3-7	3-9	4-0	4-2	4-5	4-7	4-9	4-11	5-2
350.00	3-11	4-2	4-5	4-8	4-10	5-1	5-4	5-6	5-9	5-11
375.00	4-6	4-9	5-0	5-4	5-7	5-10	6-1	6-4	6-7	6-10
400.00	5-1	5-5	5-9	6-1	6-4	6-8	6-11	7-3	7-6	7-9
425.00	5-9	6-1	6-6	6-10	7-2	7-6	7-10	8-2	8-6	8-9
450.00	6-5	6-10	7-3	7-8	8-0	8-5	8-9	9-2	9-6	9-10
475.00	7-2	7-8	8-1	8-6	8-11	9-5	9-9	10-2	10-7	11-0
500.00	7-11	8-6	9-0	9-5	9-11	10-5	10-11	11-3	11-9	12-2
525.00	8-9	9-4	9-11	10-5	10-11	11-5	11-11	12-5	12-11	13-5
550.00	9-8	10-3	10-10	11-5	12-0	12-7	13-1	13-8	14-2	14-8
575.00	10-6	11-2	11-10	12-6	13-2	13-9	14-4	14-11	15-6	16-1
600.00	11-6	12-2	12-11	13-7	14-4	15-0	15-7	16-3	16-11	17-6
625.00	12-5	13-3	14-0	14-9	15-6	16-3	16-11	17-8	18-4	19-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.89

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.521	0.55	1193	0.41	1600*
20	0	0	0	0.111	0.10	1424	0.08	1765
30	0	0	0	0.111	0.10	1326	0.08	1703
40	0	0	0	0.111	0.11	1229	0.08	1641
50	0	0	0	0.111	0.12	1131	0.09	1578
60	0	0	0	0.111	0.13	1034	0.09	1513
70	0	0	0	0.111	0.15	937	0.10	1447
80	0	0	0	0.111	0.17	840	0.10	1380
90	0	0	0	0.111	0.19	743	0.11	1312
100	0	0	0	0.111	0.21	648	0.11	1243
110	0	0	0	0.111	0.25	553	0.12	1173
120	0	0	0	0.111	0.30	461	0.13	1102
130	0	0	0	0.111	0.37	374	0.13	1030
167	0	0	0	0.111	0.89	155	0.18	755
212	0	0	0	0.111	1.59	88	0.33	415

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.521	2.01	1295	1.63	1600*
20	0	0	0	0.111	0.40	1377	0.33	1700
30	0	0	0	0.111	0.43	1280	0.34	1638
40	0	0	0	0.111	0.47	1184	0.35	1574
50	0	0	0	0.111	0.51	1088	0.37	1510
60	0	0	0	0.111	0.56	993	0.38	1444
70	0	0	0	0.111	0.62	899	0.40	1378
80	0	0	0	0.111	0.69	806	0.42	1310
90	0	0	0	0.111	0.78	715	0.45	1242
100	0	0	0	0.111	0.89	627	0.47	1172
110	0	0	0	0.111	1.02	543	0.50	1102
120	0	0	0	0.111	1.19	466	0.54	1031
130	0	0	0	0.111	1.40	397	0.58	959
167	0	0	0	0.111	2.37	234	0.80	692
212	0	0	0	0.111	3.51	158	1.41	394

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.521	4.18	1403	3.66	1600*
20	0	0	0	0.111	0.96	1296	0.79	1590
30	0	0	0	0.111	1.04	1202	0.82	1526
40	0	0	0	0.111	1.13	1109	0.85	1461
50	0	0	0	0.111	1.23	1017	0.89	1396
60	0	0	0	0.111	1.35	926	0.94	1329
70	0	0	0	0.111	1.49	838	0.99	1262
80	0	0	0	0.111	1.66	753	1.05	1194
90	0	0	0	0.111	1.86	672	1.11	1125
100	0	0	0	0.111	2.09	596	1.18	1056
110	0	0	0	0.111	2.37	528	1.27	986
120	0	0	0	0.111	2.67	467	1.36	917
130	0	0	0	0.111	3.01	415	1.47	848
167	0	0	0	0.111	4.34	288	2.07	603
212	0	0	0	0.111	5.83	214	3.32	376

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.521	6.97	1497	6.52	1600*
20	0	0	0	0.111	1.88	1179	1.55	1433
30	0	0	0	0.111	2.04	1089	1.62	1368
40	0	0	0	0.111	2.22	1001	1.71	1302
50	0	0	0	0.111	2.42	916	1.80	1236
60	0	0	0	0.111	2.66	835	1.90	1169
70	0	0	0	0.111	2.93	757	2.01	1102
80	0	0	0	0.111	3.24	685	2.15	1035
90	0	0	0	0.111	3.59	619	2.29	968
100	0	0	0	0.111	3.96	560	2.46	902
110	0	0	0	0.111	4.37	508	2.65	837
120	0	0	0	0.111	4.80	463	2.87	774
130	0	0	0	0.111	5.23	425	3.12	712
167	0	0	0	0.111	6.84	325	4.29	517
212	0	0	0	0.111	8.62	258	6.09	365

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.91

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.521	10.39	1568	10.19	1600*
20	0	0	0	0.111	3.39	1022	2.82	1231
30	0	0	0	0.111	3.68	942	2.97	1166
40	0	0	0	0.111	4.01	866	3.15	1102
50	0	0	0	0.111	4.37	794	3.34	1037
60	0	0	0	0.111	4.77	728	3.56	974
70	0	0	0	0.111	5.20	667	3.81	911
80	0	0	0	0.111	5.66	613	4.08	850
90	0	0	0	0.111	6.15	565	4.38	792
100	0	0	0	0.111	6.65	522	4.72	736
110	0	0	0	0.111	7.15	485	5.08	683
120	0	0	0	0.111	7.66	453	5.47	634
130	0	0	0	0.111	8.17	425	5.89	589
167	0	0	0	0.111	9.98	348	7.60	457
212	0	0	0	0.111	11.99	290	9.72	357

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.92

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-5
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.93

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5
200.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6
225.00	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-8
250.00	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7
175.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-0
225.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	1-0	1-1	1-4
250.00	0-8	0-8	0-9	0-10	0-10	1-0	1-1	1-3	1-5	1-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.94

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
225.00	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-9
250.00	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11
275.00	0-8	0-8	0-9	0-9	0-9	0-10	0-11	0-11	1-0	1-1
300.00	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3
325.00	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6
350.00	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-9
375.00	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	2-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-6	0-7
175.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1
225.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-2	1-4
250.00	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-3	1-5	1-8
275.00	0-10	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-9	2-0
300.00	1-0	1-0	1-2	1-3	1-4	1-6	1-8	1-10	2-1	2-4
325.00	1-2	1-3	1-4	1-5	1-7	1-9	1-11	2-2	2-6	2-9
350.00	1-4	1-5	1-6	1-8	1-10	2-0	2-3	2-6	2-10	3-3
375.00	1-6	1-7	1-9	1-11	2-1	2-4	2-7	2-11	3-3	3-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.95

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8
225.00	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10
250.00	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-0
275.00	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-2	1-3
300.00	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-5	1-6
325.00	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-8	1-9
350.00	1-2	1-3	1-4	1-5	1-5	1-7	1-8	1-9	1-11	2-0
375.00	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-2	2-4
400.00	1-7	1-7	1-8	1-10	1-11	2-0	2-2	2-4	2-6	2-8
425.00	1-9	1-10	1-11	2-0	2-2	2-3	2-5	2-7	2-9	3-0
450.00	2-0	2-1	2-2	2-3	2-5	2-7	2-9	2-11	3-1	3-4
475.00	2-2	2-3	2-5	2-6	2-8	2-10	3-0	3-3	3-6	3-9
500.00	2-5	2-6	2-8	2-10	3-0	3-2	3-4	3-7	3-10	4-2

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1
225.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-5
250.00	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-8
275.00	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-1
300.00	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-3	2-5
325.00	1-3	1-4	1-6	1-7	1-9	1-11	2-2	2-4	2-7	2-11
350.00	1-5	1-7	1-8	1-10	2-0	2-3	2-6	2-9	3-0	3-4
375.00	1-8	1-10	1-11	2-2	2-4	2-7	2-10	3-2	3-6	3-10
400.00	1-11	2-0	2-3	2-5	2-8	2-11	3-3	3-7	4-0	4-4
425.00	2-2	2-4	2-6	2-9	3-0	3-4	3-8	4-1	4-6	4-11
450.00	2-5	2-7	2-10	3-1	3-4	3-9	4-1	4-6	5-0	5-6
475.00	2-8	2-11	3-2	3-5	3-9	4-2	4-7	5-1	5-7	6-2
500.00	2-11	3-2	3-6	3-9	4-2	4-7	5-1	5-7	6-2	6-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.96

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3
275.00	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
300.00	1-0	1-1	1-2	1-2	1-3	1-4	1-6	1-7	1-8	1-10
325.00	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	2-0	2-2
350.00	1-5	1-5	1-7	1-8	1-9	1-10	2-0	2-2	2-4	2-6
375.00	1-7	1-8	1-9	1-11	2-0	2-2	2-4	2-6	2-8	2-10
400.00	1-10	1-11	2-0	2-2	2-3	2-5	2-7	2-10	3-0	3-3
425.00	2-0	2-2	2-3	2-5	2-7	2-9	2-11	3-2	3-5	3-8
450.00	2-3	2-5	2-7	2-9	2-11	3-1	3-4	3-7	3-10	4-1
475.00	2-7	2-8	2-10	3-0	3-3	3-5	3-8	3-11	4-3	4-7
500.00	2-10	3-0	3-2	3-4	3-7	3-10	4-1	4-5	4-9	5-1
525.00	3-1	3-3	3-6	3-8	3-11	4-2	4-6	4-10	5-2	5-7
550.00	3-5	3-7	3-10	4-1	4-4	4-7	4-11	5-4	5-8	6-2
575.00	3-9	3-11	4-2	4-5	4-9	5-0	5-5	5-10	6-3	6-9
600.00	4-1	4-3	4-6	4-10	5-2	5-6	5-11	6-4	6-9	7-4
625.00	4-5	4-8	4-11	5-3	5-7	5-11	6-4	6-10	7-4	7-11

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-9
275.00	1-0	1-1	1-3	1-4	1-5	1-7	1-9	1-10	2-0	2-2
300.00	1-3	1-4	1-5	1-7	1-9	1-10	2-0	2-3	2-5	2-7
325.00	1-5	1-7	1-8	1-10	2-0	2-2	2-5	2-7	2-10	3-0
350.00	1-8	1-10	2-0	2-2	2-4	2-7	2-9	3-0	3-3	3-6
375.00	1-11	2-1	2-3	2-5	2-8	2-11	3-2	3-5	3-9	4-0
400.00	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-11	4-3	4-7
425.00	2-5	2-8	2-11	3-2	3-5	3-9	4-1	4-5	4-10	5-2
450.00	2-9	3-0	3-3	3-6	3-10	4-3	4-7	5-0	5-5	5-10
475.00	3-1	3-4	3-7	3-11	4-4	4-8	5-1	5-7	6-0	6-5
500.00	3-5	3-8	4-0	4-4	4-9	5-2	5-8	6-2	6-8	7-2
525.00	3-9	4-1	4-5	4-10	5-3	5-9	6-3	6-9	7-4	7-11
550.00	4-1	4-5	4-10	5-3	5-9	6-4	6-10	7-5	8-1	8-8
575.00	4-6	4-10	5-4	5-9	6-4	6-11	7-6	8-2	8-9	9-6
600.00	4-11	5-4	5-9	6-4	6-10	7-6	8-2	8-10	9-7	10-4
625.00	5-4	5-9	6-3	6-10	7-5	8-2	8-10	9-7	10-5	11-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.97

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.521	0.48	1344	0.41	1600*
0	0	0	0	0.111	0.09	1491	0.08	1703
30	0	0	0	0.111	0.12	1198	0.09	1513
40	0	0	0	0.111	0.13	1101	0.1	1447
50	0	0	0	0.111	0.14	1003	0.1	1380
60	0	0	0	0.111	0.15	906	0.11	1312
70	0	0	0	0.111	0.17	809	0.11	1243
80	0	0	0	0.111	0.19	713	0.12	1173
90	0	0	0	0.111	0.22	618	0.13	1102
100	0	0	0	0.111	0.26	524	0.13	1030
110	0	0	0	0.111	0.32	433	0.15	956
120	0	0	0	0.111	0.4	348	0.16	882
130	0	0	0	0.111	0.51	272	0.17	808
167	0	0	0	0.111	1.12	124	0.26	527
212	0	0	0	0.111	1.75	79	0.63	221

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.521	1.84	1418	1.63	1600*
0	0	0	0	0.111	0.39	1439	0.34	1638
30	0	0	0	0.111	0.48	1149	0.38	1444
40	0	0	0	0.111	0.53	1054	0.4	1378
50	0	0	0	0.111	0.58	959	0.42	1310
60	0	0	0	0.111	0.64	865	0.45	1242
70	0	0	0	0.111	0.72	773	0.47	1172
80	0	0	0	0.111	0.81	682	0.5	1102
90	0	0	0	0.111	0.93	596	0.54	1031
100	0	0	0	0.111	1.08	514	0.58	959
110	0	0	0	0.111	1.26	439	0.63	887
120	0	0	0	0.111	1.48	374	0.68	814
130	0	0	0	0.111	1.73	320	0.75	742
167	0	0	0	0.111	2.74	203	1.15	485
212	0	0	0	0.111	3.82	146	2.11	263

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.98

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.521	3.91	1500	3.66	1600*
0	0	0	0	0.111	0.93	1347	0.82	1526
30	0	0	0	0.111	1.17	1066	0.94	1329
40	0	0	0	0.111	1.28	974	0.99	1262
50	0	0	0	0.111	1.41	885	1.05	1194
60	0	0	0	0.111	1.57	798	1.11	1125
70	0	0	0	0.111	1.75	715	1.18	1056
80	0	0	0	0.111	1.96	636	1.27	986
90	0	0	0	0.111	2.22	563	1.36	917
100	0	0	0	0.111	2.51	499	1.47	848
110	0	0	0	0.111	2.83	442	1.6	779
120	0	0	0	0.111	3.17	394	1.75	712
130	0	0	0	0.111	3.53	354	1.93	647
167	0	0	0	0.111	4.85	258	2.85	439
212	0	0	0	0.111	6.27	200	4.34	288

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.521	6.64	1570	6.52	1600*
0	0	0	0	0.111	1.83	1212	1.62	1368
30	0	0	0	0.111	2.34	947	1.9	1169
40	0	0	0	0.111	2.57	864	2.01	1102
50	0	0	0	0.111	2.83	785	2.15	1035
60	0	0	0	0.111	3.12	711	2.29	968
70	0	0	0	0.111	3.45	643	2.46	902
80	0	0	0	0.111	3.82	581	2.65	837
90	0	0	0	0.111	4.22	527	2.87	774
100	0	0	0	0.111	4.64	479	3.12	712
110	0	0	0	0.111	5.07	438	3.39	654
120	0	0	0	0.111	5.51	403	3.7	600
130	0	0	0	0.111	5.95	374	4.04	550
167	0	0	0	0.111	7.51	296	5.48	406
212	0	0	0	0.111	9.21	242	7.31	304

* Design Condition

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DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.99

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.521	10.19	1600	10.19	1600*
0	0	0	0	0.111	3.48	998	2.97	1166
30	0	0	0	0.111	4.48	774	3.56	974
40	0	0	0	0.111	4.89	709	3.81	911
50	0	0	0	0.111	5.33	651	4.08	850
60	0	0	0	0.111	5.8	598	4.38	792
70	0	0	0	0.111	6.29	552	4.72	736
80	0	0	0	0.111	6.8	511	5.08	683
90	0	0	0	0.111	7.3	475	5.47	634
100	0	0	0	0.111	7.81	444	5.89	589
110	0	0	0	0.111	8.32	417	6.34	548
120	0	0	0	0.111	8.82	394	6.79	511
130	0	0	0	0.111	9.31	373	7.26	478
167	0	0	0	0.111	11.03	315	9.02	385
212	0	0	0	0.111	12.93	269	11.06	314

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
150.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-9
175.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10	1-0
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-1	1-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 101 OF 145

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.101

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
150.00	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
175.00	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-8
225.00	0-6	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10
250.00	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-11	1-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
150.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-9
175.00	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-9	0-10	1-0
200.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-3
225.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7
250.00	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-8	2-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9
225.00	0-6	0-6	0-7	0-7	0-7	0-8	0-9	0-9	0-10	0-11
250.00	0-7	0-8	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-1
275.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4
300.00	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-6	1-7
325.00	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-11
350.00	1-3	1-3	1-4	1-5	1-6	1-7	1-9	1-10	2-0	2-2
375.00	1-5	1-6	1-7	1-8	1-9	1-10	2-0	2-2	2-4	2-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-8
175.00	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0
200.00	0-6	0-6	0-7	0-8	0-8	0-9	0-10	1-0	1-1	1-3
225.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-7
250.00	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-9	2-0
275.00	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-10	2-1	2-5
300.00	1-1	1-2	1-3	1-5	1-7	1-9	2-0	2-3	2-6	2-10
325.00	1-3	1-5	1-6	1-8	1-10	2-1	2-4	2-7	2-11	3-4
350.00	1-6	1-7	1-9	1-11	2-2	2-5	2-8	3-0	3-5	3-10
375.00	1-8	1-10	2-0	2-2	2-5	2-9	3-1	3-6	3-11	4-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 103 OF 145

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.103

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10
225.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1
250.00	0-8	0-9	0-9	0-10	0-11	1-0	1-0	1-1	1-3	1-4
275.00	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7
300.00	1-0	1-1	1-2	1-2	1-3	1-5	1-6	1-7	1-9	1-11
325.00	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-1	2-3
350.00	1-5	1-5	1-7	1-8	1-9	1-11	2-0	2-2	2-5	2-7
375.00	1-7	1-8	1-9	1-11	2-0	2-2	2-4	2-6	2-9	3-0
400.00	1-10	1-11	2-0	2-2	2-4	2-6	2-8	2-10	3-1	3-5
425.00	2-0	2-2	2-3	2-5	2-7	2-9	3-0	3-3	3-6	3-10
450.00	2-3	2-5	2-7	2-9	2-11	3-1	3-4	3-8	3-11	4-4
475.00	2-6	2-8	2-10	3-0	3-3	3-6	3-9	4-1	4-5	4-9
500.00	2-10	3-0	3-2	3-4	3-7	3-10	4-2	4-6	4-10	5-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-2	1-3
225.00	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-7
250.00	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-0
275.00	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-0	2-2	2-5
300.00	1-3	1-4	1-5	1-7	1-9	1-11	2-2	2-4	2-7	2-10
325.00	1-5	1-7	1-8	1-10	2-1	2-3	2-6	2-9	3-1	3-4
350.00	1-8	1-10	2-0	2-2	2-5	2-8	2-11	3-3	3-7	3-11
375.00	1-11	2-1	2-3	2-6	2-9	3-0	3-4	3-8	4-1	4-5
400.00	2-2	2-4	2-7	2-10	3-1	3-5	3-10	4-3	4-8	5-1
425.00	2-5	2-8	2-11	3-2	3-6	3-11	4-4	4-9	5-3	5-9
450.00	2-9	3-0	3-3	3-7	3-11	4-4	4-10	5-4	5-10	6-5
475.00	3-0	3-4	3-7	4-0	4-5	4-10	5-5	5-11	6-6	7-2
500.00	3-4	3-8	4-0	4-5	4-11	5-5	6-0	6-7	7-3	7-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 104 OF 145

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.104

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7
275.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11
300.00	1-2	1-3	1-4	1-6	1-7	1-8	1-10	2-0	2-1	2-3
325.00	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-4	2-6	2-8
350.00	1-8	1-9	1-10	2-0	2-2	2-4	2-6	2-8	2-11	3-1
375.00	1-11	2-0	2-2	2-4	2-6	2-8	2-10	3-1	3-4	3-7
400.00	2-2	2-3	2-5	2-7	2-10	3-0	3-3	3-6	3-9	4-1
425.00	2-5	2-7	2-9	2-11	3-2	3-5	3-8	3-11	4-3	4-7
450.00	2-9	2-11	3-1	3-4	3-7	3-10	4-1	4-5	4-9	5-2
475.00	3-0	3-3	3-5	3-8	3-11	4-3	4-7	4-11	5-4	5-9
500.00	3-4	3-7	3-10	4-1	4-5	4-9	5-1	5-6	5-11	6-4
525.00	3-8	3-11	4-2	4-6	4-10	5-2	5-7	6-0	6-6	7-0
550.00	4-1	4-4	4-7	4-11	5-4	5-8	6-2	6-7	7-2	7-8
575.00	4-5	4-9	5-0	5-5	5-10	6-3	6-9	7-3	7-10	8-5
600.00	4-10	5-2	5-6	5-11	6-4	6-9	7-4	7-11	8-6	9-1
625.00	5-3	5-7	5-11	6-4	6-10	7-4	7-11	8-7	9-3	9-11

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-0	1-1	1-3	1-4	1-5	1-7	1-8	1-10	1-11	2-1
275.00	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-4	2-6
300.00	1-6	1-7	1-9	1-11	2-1	2-3	2-5	2-8	2-10	3-0
325.00	1-9	1-11	2-1	2-3	2-5	2-8	2-10	3-1	3-4	3-6
350.00	2-0	2-2	2-5	2-7	2-10	3-1	3-4	3-7	3-10	4-1
375.00	2-4	2-6	2-9	3-0	3-3	3-6	3-10	4-1	4-5	4-8
400.00	2-8	2-10	3-2	3-5	3-9	4-0	4-4	4-8	5-0	5-4
425.00	3-0	3-3	3-6	3-10	4-2	4-7	4-11	5-3	5-8	6-0
450.00	3-4	3-8	4-0	4-4	4-8	5-1	5-6	5-11	6-4	6-9
475.00	3-9	4-1	4-5	4-10	5-3	5-8	6-2	6-7	7-1	7-6
500.00	4-1	4-6	4-11	5-4	5-10	6-4	6-10	7-4	7-10	8-4
525.00	4-6	4-11	5-5	5-11	6-5	6-11	7-6	8-1	8-7	9-2
550.00	5-0	5-5	5-11	6-5	7-0	7-7	8-3	8-10	9-5	10-1
575.00	5-5	5-11	6-6	7-1	7-8	8-4	9-0	9-8	10-4	11-0
600.00	5-11	6-5	7-1	7-8	8-4	9-1	9-9	10-6	11-3	12-0
625.00	6-5	7-0	7-8	8-4	9-1	9-10	10-7	11-5	12-3	13-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.105

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.521	0.44	1477	0.36	1800*
0	0	0	0	0.111	0.09	1632	0.07	1901
30	0	0	0	0.111	0.10	1339	0.08	1723
40	0	0	0	0.111	0.11	1241	0.08	1661
50	0	0	0	0.111	0.12	1144	0.09	1598
60	0	0	0	0.111	0.13	1047	0.09	1533 !
70	0	0	0	0.111	0.15	949	0.09	1468
80	0	0	0	0.111	0.16	852	0.10	1401
90	0	0	0	0.111	0.18	756	0.10	1334
100	0	0	0	0.111	0.21	660	0.11	1265
110	0	0	0	0.111	0.25	566	0.12	1195
120	0	0	0	0.111	0.29	473	0.12	1124
130	0	0	0	0.111	0.36	385	0.13	1052
167	0	0	0	0.111	0.87	159	0.18	779
212	0	0	0	0.111	1.57	89	0.32	438

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.521	1.68	1546	1.45	1800*
0	0	0	0	0.111	0.35	1594	0.30	1853
30	0	0	0	0.111	0.43	1303	0.33	1671
40	0	0	0	0.111	0.46	1207	0.34	1609
50	0	0	0	0.111	0.50	1111	0.36	1545
60	0	0	0	0.111	0.55	1016	0.38	1480
70	0	0	0	0.111	0.60	921	0.39	1414
80	0	0	0	0.111	0.67	828	0.41	1347
90	0	0	0	0.111	0.75	736	0.43	1279
100	0	0	0	0.111	0.86	647	0.46	1210
110	0	0	0	0.111	0.99	562	0.49	1140
120	0	0	0	0.111	1.15	483	0.52	1069
130	0	0	0	0.111	1.35	412	0.56	998
167	0	0	0	0.111	2.31	241	0.76	731
212	0	0	0	0.111	3.46	161	1.30	425

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

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Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.521	3.60	1629	3.26	1800*
0	0	0	0	0.111	0.82	1528	0.71	1770
30	0	0	0	0.111	1.00	1243	0.79	1585
40	0	0	0	0.111	1.09	1149	0.82	1522
50	0	0	0	0.111	1.18	1056	0.86	1457
60	0	0	0	0.111	1.29	965	0.90	1391
70	0	0	0	0.111	1.43	875	0.94	1325
80	0	0	0	0.111	1.58	789	0.99	1257
90	0	0	0	0.111	1.77	706	1.05	1189
100	0	0	0	0.111	1.99	628	1.11	1120
110	0	0	0	0.111	2.25	556	1.19	1051
120	0	0	0	0.111	2.54	492	1.27	981
130	0	0	0	0.111	2.86	436	1.37	912
167	0	0	0	0.111	4.18	299	1.89	661
212	0	0	0	0.111	5.70	219	3.02	414

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.521	6.10	1709	5.79	1800*
0	0	0	0	0.111	1.55	1432	1.34	1652
30	0	0	0	0.111	1.92	1156	1.52	1463
40	0	0	0	0.111	2.08	1066	1.59	1399
50	0	0	0	0.111	2.27	979	1.67	1333
60	0	0	0	0.111	2.48	895	1.75	1267
70	0	0	0	0.111	2.73	815	1.85	1201
80	0	0	0	0.111	3.01	738	1.96	1134
90	0	0	0	0.111	3.33	668	2.08	1067
100	0	0	0	0.111	3.68	604	2.22	1000
110	0	0	0	0.111	4.07	546	2.38	933
120	0	0	0	0.111	4.48	496	2.56	868
130	0	0	0	0.111	4.91	453	2.76	803
167	0	0	0	0.111	6.52	341	3.78	588
212	0	0	0	0.111	8.34	267	5.49	405

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 107 OF 145

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.107

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.521	9.17	1776	9.05	1800*
0	0	0	0	0.111	2.66	1302	2.31	1499
30	0	0	0	0.111	3.33	1042	2.65	1307
40	0	0	0	0.111	3.61	961	2.79	1242
50	0	0	0	0.111	3.92	884	2.95	1177
60	0	0	0	0.111	4.28	811	3.12	1113
70	0	0	0	0.111	4.67	744	3.31	1048
80	0	0	0	0.111	5.09	682	3.52	985
90	0	0	0	0.111	5.55	626	3.76	922
100	0	0	0	0.111	6.02	576	4.03	861
110	0	0	0	0.111	6.52	532	4.33	802
120	0	0	0	0.111	7.03	494	4.66	745
130	0	0	0	0.111	7.54	461	5.01	692
167	0	0	0	0.111	9.39	370	6.58	528
212	0	0	0	0.111	11.45	304	8.71	399

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 108 OF 145

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.108

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6
225.00	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7
250.00	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7
175.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	1-0
225.00	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-3
250.00	0-7	0-8	0-9	0-9	0-10	0-11	1-1	1-2	1-4	1-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.110

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6
225.00	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-8	0-8
250.00	0-6	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10
275.00	0-8	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0
300.00	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2
325.00	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4	1-5
350.00	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7
375.00	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7
175.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-11	1-0
225.00	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-3
250.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-7
275.00	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-11
300.00	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-9	2-0	2-3
325.00	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-1	2-4	2-8
350.00	1-3	1-4	1-6	1-7	1-9	1-11	2-2	2-5	2-8	3-1
375.00	1-6	1-7	1-8	1-10	2-0	2-3	2-6	2-9	3-1	3-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.111

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7
225.00	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11
275.00	0-8	0-9	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-1
300.00	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-3	1-4
325.00	1-0	1-0	1-1	1-1	1-2	1-3	1-4	1-4	1-6	1-7
350.00	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-10
375.00	1-3	1-4	1-5	1-6	1-6	1-8	1-9	1-10	1-11	2-1
400.00	1-5	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-3	2-5
425.00	1-8	1-9	1-10	1-11	2-0	2-1	2-3	2-4	2-6	2-8
450.00	1-10	1-11	2-0	2-1	2-3	2-4	2-6	2-8	2-10	3-0
475.00	2-1	2-2	2-3	2-4	2-6	2-7	2-9	2-11	3-2	3-4
500.00	2-3	2-4	2-6	2-7	2-9	2-11	3-1	3-3	3-6	3-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
225.00	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-1	1-2	1-3
250.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-7
275.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	1-11
300.00	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-1	2-3
325.00	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-2	2-5	2-8
350.00	1-4	1-6	1-7	1-9	1-11	2-1	2-4	2-7	2-10	3-1
375.00	1-7	1-8	1-10	2-0	2-2	2-5	2-8	2-11	3-3	3-7
400.00	1-9	1-11	2-1	2-3	2-6	2-9	3-0	3-4	3-8	4-1
425.00	2-0	2-2	2-4	2-7	2-10	3-1	3-5	3-9	4-2	4-7
450.00	2-3	2-5	2-8	2-10	3-2	3-5	3-10	4-3	4-8	5-2
475.00	2-6	2-9	2-11	3-2	3-6	3-10	4-3	4-8	5-2	5-9
500.00	2-9	3-0	3-3	3-7	3-11	4-3	4-8	5-2	5-9	6-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.112

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-8	0-8	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-1
275.00	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4
300.00	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-7
325.00	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-10
350.00	1-3	1-4	1-4	1-5	1-6	1-7	1-9	1-10	2-0	2-1
375.00	1-5	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-3	2-5
400.00	1-7	1-8	1-9	1-11	2-0	2-1	2-3	2-5	2-7	2-9
425.00	1-10	1-11	2-0	2-2	2-3	2-5	2-7	2-9	2-11	3-2
450.00	2-1	2-2	2-3	2-5	2-6	2-8	2-10	3-1	3-3	3-6
475.00	2-3	2-5	2-6	2-8	2-10	3-0	3-2	3-5	3-8	3-11
500.00	2-6	2-8	2-10	2-11	3-1	3-4	3-6	3-9	4-0	4-4
525.00	2-9	2-11	3-1	3-3	3-5	3-8	3-11	4-2	4-5	4-9
550.00	3-1	3-3	3-5	3-7	3-9	4-0	4-3	4-7	4-11	5-3
575.00	3-4	3-6	3-8	3-11	4-1	4-5	4-8	5-0	5-4	5-9
600.00	3-8	3-10	4-0	4-3	4-6	4-9	5-1	5-5	5-10	6-3
625.00	3-11	4-2	4-4	4-7	4-10	5-2	5-6	5-11	6-4	6-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8
275.00	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-10	2-0
300.00	1-1	1-2	1-4	1-5	1-6	1-8	1-10	2-0	2-2	2-4
325.00	1-4	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-7	2-9
350.00	1-6	1-8	1-9	1-11	2-1	2-3	2-6	2-9	2-11	3-2
375.00	1-9	1-10	2-0	2-2	2-5	2-7	2-10	3-1	3-5	3-8
400.00	2-0	2-2	2-4	2-6	2-9	3-0	3-3	3-7	3-10	4-2
425.00	2-3	2-5	2-7	2-10	3-1	3-4	3-8	4-0	4-4	4-9
450.00	2-6	2-8	2-11	3-2	3-6	3-9	4-1	4-6	4-11	5-3
475.00	2-9	3-0	3-3	3-7	3-10	4-3	4-7	5-0	5-5	5-11
500.00	3-1	3-4	3-7	3-11	4-3	4-8	5-1	5-7	6-0	6-6
525.00	3-5	3-8	4-0	4-4	4-9	5-2	5-7	6-1	6-8	7-2
550.00	3-9	4-0	4-4	4-9	5-2	5-8	6-2	6-9	7-3	7-11
575.00	4-1	4-5	4-9	5-2	5-8	6-2	6-9	7-4	8-0	8-8
600.00	4-5	4-10	5-2	5-8	6-2	6-9	7-4	8-0	8-8	9-5
625.00	4-10	5-2	5-8	6-2	6-8	7-4	7-11	8-8	9-5	10-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

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STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.113

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	0.873	1.06	1035	0.91	1200*
20	0	0	0	0.111	0.13	1090	0.11	1283
30	0	0	0	0.111	0.14	993	0.11	1213
40	0	0	0	0.111	0.15	896	0.12	1143
50	0	0	0	0.111	0.17	799	0.13	1071
60	0	0	0	0.111	0.20	703	0.14	999
70	0	0	0	0.111	0.23	608	0.15	925
80	0	0	0	0.111	0.27	514	0.16	851
90	0	0	0	0.111	0.33	424	0.18	776
100	0	0	0	0.111	0.41	339	0.20	700
110	0	0	0	0.111	0.52	265	0.22	624
120	0	0	0	0.111	0.67	206	0.25	548
130	0	0	0	0.111	0.85	164	0.29	472
167	0	0	0	0.111	1.44	97	0.62	225
212	0	0	0	0.111	1.99	70	1.32	105

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	0.873	3.64	1200	3.64	1200*
20	0	0	0	0.111	0.70	798	0.62	897
30	0	0	0	0.111	0.78	707	0.67	825
40	0	0	0	0.111	0.90	619	0.74	753
50	0	0	0	0.111	1.04	536	0.82	681
60	0	0	0	0.111	1.21	459	0.91	610
70	0	0	0	0.111	1.42	391	1.03	541
80	0	0	0	0.111	1.66	334	1.17	475
90	0	0	0	0.111	1.93	288	1.34	414
100	0	0	0	0.111	2.20	252	1.54	359
110	0	0	0	0.111	2.48	224	1.78	313
120	0	0	0	0.111	2.75	202	2.03	274
130	0	0	0	0.111	3.00	185	2.28	243
167	0	0	0	0.111	3.87	144	3.22	173
212	0	0	0	0.111	4.75	117	4.19	133

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	0.873	8.21	1200	8.21	1200*
20	0	0	0	0.111	4.22	296	3.34	374
30	0	0	0	0.111	4.58	273	3.68	340
40	0	0	0	0.111	4.92	254	4.02	311
50	0	0	0	0.111	5.25	238	4.36	287
60	0	0	0	0.111	5.58	224	4.69	266
70	0	0	0	0.111	5.89	212	5.02	249
80	0	0	0	0.111	6.19	202	5.34	234
90	0	0	0	0.111	6.48	193	5.65	221
100	0	0	0	0.111	6.76	185	5.96	210
110	0	0	0	0.111	7.03	178	6.25	200
120	0	0	0	0.111	7.30	172	6.53	191
130	0	0	0	0.111	7.55	166	6.81	184
167	0	0	0	0.111	8.45	148	7.76	161
212	0	0	0	0.111	9.43	133	8.81	142

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	0.873	14.63	1200	14.63	1200*
20	0	0	0	0.111	10.91	204	10.02	222
30	0	0	0	0.111	11.22	199	10.35	215
40	0	0	0	0.111	11.52	193	10.67	209
50	0	0	0	0.111	11.81	189	10.98	203
60	0	0	0	0.111	12.10	184	11.28	197
70	0	0	0	0.111	12.38	180	11.58	192
80	0	0	0	0.111	12.66	176	11.87	188
90	0	0	0	0.111	12.93	172	12.15	183
100	0	0	0	0.111	13.20	169	12.43	179
110	0	0	0	0.111	13.46	166	12.70	175
120	0	0	0	0.111	13.72	163	12.97	172
130	0	0	0	0.111	13.97	160	13.24	168
167	0	0	0	0.111	14.88	150	14.18	157
212	0	0	0	0.111	15.91	140	15.25	146

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.115

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	0.873	22.93	1200	22.93	1200*
20	0	0	0	0.111	19.34	180	18.53	188
30	0	0	0	0.111	19.63	178	18.82	185
40	0	0	0	0.111	19.91	175	19.11	183
50	0	0	0	0.111	20.18	173	19.39	180
60	0	0	0	0.111	20.45	171	19.67	177
70	0	0	0	0.111	20.72	169	19.95	175
80	0	0	0	0.111	20.99	166	20.22	173
90	0	0	0	0.111	21.25	164	20.49	170
100	0	0	0	0.111	21.51	162	20.76	168
110	0	0	0	0.111	21.77	161	21.03	166
120	0	0	0	0.111	22.02	159	21.29	164
130	0	0	0	0.111	22.27	157	21.55	162
167	0	0	0	0.111	23.18	151	22.48	156
212	0	0	0	0.111	24.24	144	23.56	149

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.116

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3
125.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6
175.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8
200.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-4
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6
125.00	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10
150.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-2
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-3	1-7
200.00	0-6	0-7	0-7	0-8	0-9	0-11	1-1	1-4	1-8	2-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.117

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-5
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8
150.00	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0
175.00	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-2	1-4
200.00	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-9
225.00	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-8	1-11	2-3
250.00	1-0	1-1	1-2	1-3	1-5	1-7	1-10	2-1	2-5	2-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-7
125.00	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	1-0
150.00	0-5	0-5	0-6	0-7	0-8	0-10	0-11	1-1	1-3	1-5
175.00	0-6	0-7	0-8	0-10	0-11	1-1	1-3	1-6	1-8	1-11
200.00	0-8	0-9	0-11	1-0	1-3	1-5	1-8	1-11	2-2	2-6
225.00	0-11	1-0	1-2	1-4	1-6	1-10	2-1	2-5	2-9	3-2
250.00	1-1	1-3	1-5	1-7	1-11	2-3	2-7	3-0	3-5	3-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.118

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
175.00	1-2	1-3	1-4	1-6	1-7	1-9	1-10	1-11	2-0	2-2
200.00	1-6	1-8	1-9	1-11	2-1	2-3	2-4	2-6	2-8	2-9
225.00	1-11	2-1	2-3	2-5	2-8	2-10	3-0	3-2	3-4	3-6
250.00	2-4	2-7	2-9	3-0	3-3	3-6	3-9	3-11	4-2	4-4
275.00	2-10	3-1	3-5	3-8	3-11	4-3	4-6	4-9	5-0	5-3
300.00	3-4	3-8	4-0	4-4	4-8	5-0	5-4	5-8	5-11	6-3
325.00	3-11	4-4	4-9	5-1	5-6	5-11	6-3	6-8	7-0	7-4
350.00	4-7	5-0	5-6	5-11	6-5	6-10	7-3	7-8	8-1	8-6
375.00	5-3	5-9	6-3	6-10	7-4	7-10	8-4	8-10	9-4	9-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9
175.00	1-5	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-4	2-5
200.00	1-11	2-0	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-1
225.00	2-5	2-7	2-9	2-11	3-2	3-4	3-6	3-8	3-10	3-11
250.00	2-11	3-2	3-5	3-8	3-10	4-1	4-4	4-6	4-8	4-11
275.00	3-7	3-10	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-11
300.00	4-3	4-7	4-11	5-3	5-7	5-11	6-2	6-6	6-9	7-0
325.00	4-11	5-4	5-9	6-2	6-7	6-11	7-3	7-7	7-11	8-3
350.00	5-9	6-3	6-8	7-2	7-7	8-0	8-5	8-10	9-2	9-7
375.00	6-7	7-2	7-8	8-3	8-9	9-2	9-8	10-2	10-7	11-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-2
225.00	3-2	3-3	3-4	3-6	3-7	3-8	3-9	3-10	3-11	4-0
250.00	3-11	4-0	4-2	4-3	4-5	4-6	4-8	4-9	4-10	5-0
275.00	4-9	4-11	5-0	5-2	5-4	5-6	5-7	5-9	5-10	6-0
300.00	5-8	5-10	6-0	6-2	6-4	6-6	6-8	6-10	7-0	7-2
325.00	6-7	6-10	7-0	7-3	7-5	7-8	7-10	8-0	8-2	8-5
350.00	7-8	7-11	8-2	8-5	8-8	8-10	9-1	9-4	9-6	9-9
375.00	8-10	9-1	9-4	9-8	9-11	10-2	10-5	10-8	10-11	11-2
400.00	10-0	10-4	10-8	11-0	11-3	11-7	11-10	12-2	12-5	12-8
425.00	11-4	11-8	12-1	12-5	12-9	13-1	13-5	13-9	14-0	14-4
450.00	12-8	13-1	13-6	13-11	14-3	14-8	15-0	15-5	15-9	16-1
475.00	14-2	14-7	15-1	15-6	15-11	16-4	16-9	17-2	17-6	17-11
500.00	15-8	16-2	16-8	17-2	17-8	18-1	18-7	19-0	19-5	19-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-9	2-10	2-11	2-1	1 3-	0 3-	1 3-2	3-3	3-4	3-4
225.00	3-5	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3
250.00	4-3	4-5	4-6	4-7	4-9	4-10	4-11	5-1	5-2	5-3
275.00	5-2	5-4	5-5	5-7	5-9	5-10	6-0	6-1	6-3	6-4
300.00	6-2	6-4	6-6	6-8	6-10	7-0	7-1	7-3	7-5	7-7
325.00	7-2	7-5	7-7	7-10	8-0	8-2	8-4	8-6	8-9	8-11
350.00	8-4	8-7	8-10	9-0	9-3	9-6	9-8	9-11	10-1	10-4
375.00	9-7	9-10	10-1	10-5	10-8	10-11	11-2	11-4	11-7	11-10
400.00	10-11	11-3	11-6	11-10	12-1	12-5	12-8	12-11	13-2	13-6
425.00	12-4	12-8	13-0	13-4	13-8	14-0	14-4	14-7	14-11	15-2
450.00	13-10	14-2	14-7	14-11	15-4	15-8	16-0	16-4	16-9	17-1
475.00	15-5	15-10	16-3	16-8	17-1	17-6	17-10	18-3	18-7	19-0
500.00	17-1	17-6	18-0	18-6	18-11	19-4	19-10	20-3	20-8	21-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.120

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-8	4-8	4-9	4-10	4-11	5-0	5-1	5-1	5-2	5-3
275.00	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4
300.00	6-8	6-9	6-10	7-0	7-1	7-2	7-3	7-4	7-6	7-7
325.00	7-10	7-11	8-1	8-2	8-4	8-5	8-6	8-8	8-9	8-10
350.00	9-1	9-3	9-4	9-6	9-8	9-9	9-11	10-0	10-2	10-3
375.00	10-5	10-7	10-9	10-11	11-1	11-3	11-4	11-6	11-8	11-10
400.00	11-10	12-0	12-3	12-5	12-7	12-9	12-11	13-1	13-3	13-5
425.00	13-5	13-7	13-10	14-0	14-2	14-5	14-7	14-10	15-0	15-2
450.00	15-0	15-3	15-6	15-8	15-11	16-2	16-5	16-7	16-10	17-0
475.00	16-9	17-0	17-3	17-6	17-9	18-0	18-3	18-6	18-9	19-0
500.00	18-6	18-10	19-1	19-5	19-8	19-11	20-3	20-6	20-9	21-0
525.00	20-5	20-9	21-1	21-5	21-8	22-0	22-4	22-7	22-11	23-2
550.00	22-5	22-9	23-2	23-6	23-10	24-2	24-6	24-10	25-2	25-5
575.00	24-6	24-11	25-3	25-8	26-0	26-5	26-9	27-1	27-6	27-10
600.00	26-8	27-1	27-6	27-11	28-4	28-9	29-2	29-6	29-11	30-4
625.00	29-0	29-5	29-11	30-4	30-9	31-3	31-8	32-1	32-6	32-11

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-10	4-11	5-0	5-0	5-1	5-2	5-3	5-4	5-4	5-5
275.00	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7
300.00	6-11	7-1	7-2	7-3	7-4	7-5	7-7	7-8	7-9	7-10
325.00	8-2	8-3	8-5	8-6	8-8	8-9	8-10	9-0	9-1	9-2
350.00	9-6	9-7	9-9	9-11	10-0	10-2	10-3	10-5	10-6	10-8
375.00	10-10	11-0	11-2	11-4	11-6	11-8	11-10	11-11	12-1	12-3
400.00	12-4	12-7	12-9	12-11	13-1	13-3	13-5	13-7	13-9	13-11
425.00	14-0	14-2	14-4	14-7	14-9	15-0	15-2	15-4	15-6	15-9
450.00	15-8	15-11	16-1	16-4	16-7	16-9	17-0	17-2	17-5	17-7
475.00	17-5	17-9	18-0	18-3	18-5	18-8	18-11	19-2	19-5	19-8
500.00	19-4	19-8	19-11	20-2	20-5	20-9	21-0	21-3	21-6	21-9
525.00	21-4	21-8	21-11	22-3	22-7	22-10	23-2	23-5	23-9	24-0
550.00	23-5	23-9	24-1	24-5	24-9	25-1	25-5	25-9	26-0	26-4
575.00	25-7	26-0	26-4	26-9	27-1	27-5	27-9	28-2	28-6	28-10
600.00	27-11	28-3	28-8	29-1	29-6	29-10	30-3	30-8	31-0	31-5
625.00	30-3	30-8	31-2	31-7	32-0	32-5	32-10	33-3	33-8	34-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.121

TABLE OF CONTENTS

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	0.873	0.86	1263	0.68	1600*
20	0	0	0	0.111	0.10	1396	0.08	1724
30	0	0	0	0.111	0.11	1298	0.08	1662
40	0	0	0	0.111	0.12	1201	0.09	1599
50	0	0	0	0.111	0.13	1103	0.09	1535
60	0	0	0	0.111	0.14	1006	0.09	1469
70	0	0	0	0.111	0.15	909	0.10	1403
80	0	0	0	0.111	0.17	812	0.10	1335
90	0	0	0	0.111	0.19	716	0.11	1266
100	0	0	0	0.111	0.22	621	0.12	1196
110	0	0	0	0.111	0.26	527	0.12	1126
120	0	0	0	0.111	0.32	436	0.13	1054
130	0	0	0	0.111	0.40	350	0.14	981
167	0	0	0	0.111	0.94	147	0.20	704
212	0	0	0	0.111	1.62	86	0.38	366

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	0.873	3.01	1450	2.73	1600*
20	0	0	0	0.111	0.44	1260	0.36	1531
30	0	0	0	0.111	0.48	1164	0.38	1466
40	0	0	0	0.111	0.52	1068	0.40	1400
50	0	0	0	0.111	0.57	973	0.42	1333
60	0	0	0	0.111	0.63	879	0.44	1264
70	0	0	0	0.111	0.71	787	0.46	1195
80	0	0	0	0.111	0.80	696	0.49	1125
90	0	0	0	0.111	0.91	609	0.53	1054
100	0	0	0	0.111	1.05	526	0.56	983
110	0	0	0	0.111	1.23	450	0.61	911
120	0	0	0	0.111	1.45	384	0.66	838
130	0	0	0	0.111	1.69	328	0.72	766
167	0	0	0	0.111	2.70	206	1.10	506
212	0	0	0	0.111	3.78	147	2.03	274

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 122 OF 145

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.122

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	0.873	6.16	1597	6.15	1600*
20	0	0	0	0.111	1.24	1010	1.05	1192
30	0	0	0	0.111	1.36	920	1.11	1124
40	0	0	0	0.111	1.50	832	1.18	1054
50	0	0	0	0.111	1.67	747	1.27	985
60	0	0	0	0.111	1.87	666	1.36	915
70	0	0	0	0.111	2.11	591	1.48	846
80	0	0	0	0.111	2.39	523	1.61	778
90	0	0	0	0.111	2.70	463	1.76	710
100	0	0	0	0.111	3.03	412	1.94	645
110	0	0	0	0.111	3.39	369	2.14	583
120	0	0	0	0.111	3.75	333	2.38	525
130	0	0	0	0.111	4.11	304	2.65	472
167	0	0	0	0.111	5.38	232	3.83	326
212	0	0	0	0.111	6.73	186	5.33	235

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	0.873	10.95	1600	10.95	1600*
20	0	0	0	0.111	4.30	516	3.05	728
30	0	0	0	0.111	4.72	470	3.32	669
40	0	0	0	0.111	5.16	431	3.62	614
50	0	0	0	0.111	5.60	397	3.95	563
60	0	0	0	0.111	6.04	368	4.31	516
70	0	0	0	0.111	6.47	344	4.69	474
80	0	0	0	0.111	6.89	323	5.08	437
90	0	0	0	0.111	7.31	304	5.49	405
100	0	0	0	0.111	7.71	288	5.90	376
110	0	0	0	0.111	8.10	275	6.31	352
120	0	0	0	0.111	8.48	262	6.72	331
130	0	0	0	0.111	8.85	251	7.12	312
167	0	0	0	0.111	10.13	220	8.54	261
212	0	0	0	0.111	11.54	193	10.09	221

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 123 OF 145

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.123

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	0.873	17.14	1600	17.14	1600*
20	0	0	0	0.111	10.64	327	8.61	403
30	0	0	0	0.111	11.09	313	9.08	382
40	0	0	0	0.111	11.53	302	9.55	364
50	0	0	0	0.111	11.96	291	10.01	347
60	0	0	0	0.111	12.37	281	10.46	332
70	0	0	0	0.111	12.78	272	10.90	319
80	0	0	0	0.111	13.18	264	11.33	307
90	0	0	0	0.111	13.57	256	11.75	296
100	0	0	0	0.111	13.95	249	12.17	286
110	0	0	0	0.111	14.32	243	12.57	277
120	0	0	0	0.111	14.69	237	12.97	268
130	0	0	0	0.111	15.04	231	13.36	260
167	0	0	0	0.111	16.31	214	14.73	236
212	0	0	0	0.111	17.75	196	16.27	214

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.124

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5
200.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7
175.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10
200.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.125

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
150.00	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7
225.00	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-9	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	0-11

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
150.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8
175.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10	0-11
200.00	0-5	0-6	0-6	0-7	0-8	0-8	0-10	0-11	1-1	1-3
225.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7
250.00	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-8	1-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.126

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9
200.00	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11
225.00	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2
250.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-3	1-4	1-6
275.00	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-10
300.00	1-1	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-2
325.00	1-3	1-4	1-5	1-6	1-7	1-9	1-11	2-1	2-3	2-6
350.00	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-5	2-8	2-11
375.00	1-8	1-9	1-10	2-0	2-2	2-4	2-6	2-9	3-0	3-4

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
175.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-2
200.00	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-6
225.00	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-8	1-11
250.00	0-10	0-11	1-1	1-2	1-4	1-6	1-8	1-10	2-1	2-4
275.00	1-0	1-2	1-3	1-5	1-7	1-9	2-0	2-3	2-7	2-10
300.00	1-3	1-4	1-6	1-8	1-10	2-1	2-5	2-8	3-0	3-5
325.00	1-5	1-7	1-9	2-0	2-2	2-6	2-10	3-2	3-7	4-0
350.00	1-8	1-10	2-1	2-3	2-7	2-11	3-3	3-8	4-2	4-7
375.00	1-11	2-1	2-4	2-7	2-11	3-4	3-9	4-3	4-9	5-4

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STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.127

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7
225.00	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-10	2-0
250.00	1-2	1-4	1-5	1-7	1-8	1-10	2-0	2-2	2-4	2-6
275.00	1-5	1-7	1-9	1-10	2-0	2-3	2-5	2-7	2-9	3-0
300.00	1-9	1-10	2-0	2-3	2-5	2-8	2-10	3-1	3-4	3-7
325.00	2-0	2-2	2-5	2-7	2-10	3-1	3-4	3-7	3-11	4-2
350.00	2-4	2-6	2-9	3-0	3-4	3-7	3-11	4-2	4-6	4-10
375.00	2-8	2-11	3-2	3-6	3-9	4-1	4-6	4-10	5-2	5-7
400.00	3-1	3-4	3-7	3-11	4-4	4-8	5-1	5-6	5-11	6-4
425.00	3-5	3-9	4-1	4-5	4-10	5-3	5-9	6-2	6-8	7-2
450.00	3-10	4-2	4-7	5-0	5-5	5-11	6-5	6-11	7-6	8-0
475.00	4-4	4-8	5-1	5-7	6-1	6-7	7-2	7-9	8-4	8-11
500.00	4-9	5-2	5-8	6-2	6-9	7-4	7-11	8-7	9-3	9-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-1	1-2	1-3	1-5	1-6	1-7	1-9	1-10	1-11	2-0
225.00	1-4	1-6	1-8	1-9	1-11	2-1	2-2	2-4	2-5	2-7
250.00	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2
275.00	2-0	2-3	2-5	2-8	2-10	3-1	3-3	3-5	3-8	3-10
300.00	2-5	2-8	2-11	3-2	3-5	3-8	3-11	4-1	4-4	4-7
325.00	2-10	3-1	3-5	3-8	4-0	4-3	4-7	4-10	5-1	5-4
350.00	3-4	3-7	3-11	4-3	4-7	4-11	5-3	5-7	5-11	6-2
375.00	3-9	4-2	4-6	4-11	5-4	5-8	6-1	6-5	6-9	7-1
400.00	4-4	4-9	5-2	5-7	6-0	6-6	6-11	7-4	7-8	8-1
425.00	4-10	5-4	5-10	6-4	6-10	7-4	7-9	8-3	8-8	9-2
450.00	5-5	6-0	6-6	7-1	7-8	8-2	8-9	9-3	9-9	10-3
475.00	6-1	6-8	7-3	7-11	8-6	9-1	9-9	10-4	10-10	11-5
500.00	6-9	7-5	8-1	8-9	9-5	10-1	10-9	11-5	12-1	12-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.128

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-2	2-3	2-5	2-6	2-7	2-9	2-10	2-11	3-0	3-2
275.00	2-7	2-9	2-11	3-0	3-2	3-4	3-5	3-7	3-8	3-10
300.00	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-6
325.00	3-8	3-10	4-0	4-3	4-5	4-7	4-9	5-0	5-2	5-4
350.00	4-3	4-5	4-8	4-11	5-1	5-4	5-7	5-9	6-0	6-2
375.00	4-10	5-1	5-4	5-8	5-11	6-2	6-4	6-7	6-10	7-1
400.00	5-6	5-10	6-1	6-5	6-8	7-0	7-3	7-6	7-9	8-1
425.00	6-3	6-7	6-11	7-3	7-7	7-10	8-2	8-6	8-9	9-1
450.00	7-0	7-4	7-9	8-1	8-6	8-10	9-2	9-6	9-10	10-2
475.00	7-9	8-2	8-7	9-0	9-5	9-10	10-3	10-7	11-0	11-4
500.00	8-7	9-1	9-7	10-0	10-5	10-11	11-4	11-9	12-2	12-7
525.00	9-6	10-0	10-6	11-0	11-6	12-0	12-6	13-0	13-5	13-10
550.00	10-5	11-0	11-7	12-1	12-8	13-2	13-9	14-3	14-9	15-3
575.00	11-5	12-0	12-8	13-3	13-10	14-5	15-0	15-7	16-1	16-8
600.00	12-5	13-1	13-9	14-5	15-1	15-8	16-4	16-11	17-6	18-1
625.00	13-6	14-2	14-11	15-8	16-4	17-0	17-9	18-4	19-0	19-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-8	2-9	2-11	3-0	3-1	3-2	3-4	3-5	3-6	3-7
275.00	3-3	3-4	3-6	3-7	3-9	3-10	4-0	4-1	4-3	4-4
300.00	3-10	4-0	4-2	4-4	4-5	4-7	4-9	4-11	5-0	5-2
325.00	4-6	4-8	4-10	5-1	5-3	5-5	5-7	5-9	5-11	6-1
350.00	5-3	5-5	5-8	5-10	6-1	6-3	6-5	6-8	6-10	7-0
375.00	6-0	6-3	6-6	6-9	6-11	7-2	7-5	7-8	7-10	8-1
400.00	6-10	7-1	7-5	7-8	7-11	8-2	8-5	8-8	8-11	9-2
425.00	7-8	8-0	8-4	8-8	8-11	9-3	9-6	9-10	10-1	10-4
450.00	8-7	9-0	9-4	9-8	10-0	10-4	10-8	11-0	11-4	11-7
475.00	9-7	10-0	10-5	10-9	11-2	11-6	11-11	12-3	12-7	12-11
500.00	10-8	11-1	11-6	11-11	12-4	12-9	13-2	13-7	13-11	14-4
525.00	11-9	12-3	12-9	13-2	13-8	14-1	14-6	15-0	15-5	15-9
550.00	12-11	13-5	13-11	14-6	15-0	15-6	15-11	16-5	16-11	17-4
575.00	14-1	14-8	15-3	15-10	16-4	16-11	17-5	17-11	18-5	18-11
600.00	15-4	16-0	16-7	17-3	17-10	18-5	19-0	19-7	20-1	20-8
625.00	16-8	17-4	18-0	18-8	19-4	20-0	20-7	21-3	21-10	22-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.129

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Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	0.873	0.78	1396	0.68	1600*
0	0	0	0	0.111	0.09	1461	0.08	1662
30	0	0	0	0.111	0.12	1168	0.09	1469
40	0	0	0	0.111	0.13	1071	0.1	1403
50	0	0	0	0.111	0.14	974	0.1	1335
60	0	0	0	0.111	0.16	877	0.11	1266
70	0	0	0	0.111	0.18	780	0.12	1196
80	0	0	0	0.111	0.2	684	0.12	1126
90	0	0	0	0.111	0.24	589	0.13	1054
100	0	0	0	0.111	0.28	496	0.14	981
110	0	0	0	0.111	0.34	407	0.15	907
120	0	0	0	0.111	0.43	323	0.17	833
130	0	0	0	0.111	0.55	252	0.18	757
167	0	0	0	0.111	1.17	119	0.29	477
212	0	0	0	0.111	1.79	78	0.73	191

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	0.873	2.83	1543	2.73	1600*
0	0	0	0	0.111	0.42	1313	0.38	1466
30	0	0	0	0.111	0.54	1025	0.44	1264
40	0	0	0	0.111	0.6	930	0.46	1195
50	0	0	0	0.111	0.66	837	0.49	1125
60	0	0	0	0.111	0.75	745	0.53	1054
70	0	0	0	0.111	0.85	656	0.56	983
80	0	0	0	0.111	0.97	570	0.61	911
90	0	0	0	0.111	1.13	490	0.66	838
100	0	0	0	0.111	1.33	419	0.72	766
110	0	0	0	0.111	1.56	357	0.8	694
120	0	0	0	0.111	1.81	306	0.89	623
130	0	0	0	0.111	2.09	266	1	553
167	0	0	0	0.111	3.07	181	1.66	334
212	0	0	0	0.111	4.09	136	2.81	198

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 130 OF 145

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.130

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	0.873	6.15	1600	6.15	1600*
0	0	0	0	0.111	1.35	925	1.11	1124
30	0	0	0	0.111	1.86	671	1.36	915
40	0	0	0	0.111	2.1	596	1.48	846
50	0	0	0	0.111	2.37	527	1.61	778
60	0	0	0	0.111	2.68	467	1.76	710
70	0	0	0	0.111	3.01	415	1.94	645
80	0	0	0	0.111	3.37	371	2.14	583
90	0	0	0	0.111	3.73	335	2.38	525
100	0	0	0	0.111	4.09	306	2.65	472
110	0	0	0	0.111	4.45	281	2.94	424
120	0	0	0	0.111	4.79	261	3.26	383
130	0	0	0	0.111	5.13	244	3.59	348
167	0	0	0	0.111	6.28	199	4.84	258
212	0	0	0	0.111	7.51	167	6.24	201

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	0.873	10.95	1600	10.95	1600*
0	0	0	0	0.111	4.72	470	3.32	669
30	0	0	0	0.111	6.04	368	4.31	516
40	0	0	0	0.111	6.47	344	4.69	474
50	0	0	0	0.111	6.89	323	5.08	437
60	0	0	0	0.111	7.31	304	5.49	405
70	0	0	0	0.111	7.71	288	5.9	376
80	0	0	0	0.111	8.1	275	6.31	352
90	0	0	0	0.111	8.48	262	6.72	331
100	0	0	0	0.111	8.85	251	7.12	312
110	0	0	0	0.111	9.21	242	7.52	296
120	0	0	0	0.111	9.56	233	7.9	281
130	0	0	0	0.111	9.9	225	8.28	269
167	0	0	0	0.111	11.09	201	9.59	232
212	0	0	0	0.111	12.41	180	11.04	202

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 131 OF 145

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.131

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	0.873	17.14	1600	17.14	1600*
0	0	0	0	0.111	11.09	313	9.08	382
30	0	0	0	0.111	12.37	281	10.46	332
40	0	0	0	0.111	12.78	272	10.9	319
50	0	0	0	0.111	13.18	264	11.33	307
60	0	0	0	0.111	13.57	256	11.75	296
70	0	0	0	0.111	13.95	249	12.17	286
80	0	0	0	0.111	14.32	243	12.57	277
90	0	0	0	0.111	14.69	237	12.97	268
100	0	0	0	0.111	15.04	231	13.36	260
110	0	0	0	0.111	15.4	226	13.74	253
120	0	0	0	0.111	15.74	221	14.11	247
130	0	0	0	0.111	16.08	217	14.47	240
167	0	0	0	0.111	17.28	202	15.77	221
212	0	0	0	0.111	18.65	187	17.23	202

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DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.132

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
150.00	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
150.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-8	0-9
175.00	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-9	0-10	1-1
200.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-4

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STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7
200.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-10
225.00	0-6	0-7	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0
250.00	0-8	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-2	1-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5
125.00	0-2	0-3	0-3	0-3	0-3	0-4	0-5	0-5	0-6	0-7
150.00	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-11
175.00	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-2
200.00	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-4	1-7
225.00	0-8	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-8	2-0
250.00	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-9	2-1	2-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

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STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.134

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
175.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
200.00	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-1	1-2	1-4
225.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-8
250.00	0-11	0-11	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-1
275.00	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-3	2-6
300.00	1-3	1-4	1-6	1-7	1-9	1-11	2-2	2-5	2-8	2-11
325.00	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-10	3-1	3-5
350.00	1-9	1-10	2-0	2-2	2-5	2-8	2-11	3-3	3-7	4-0
375.00	2-0	2-2	2-4	2-6	2-9	3-0	3-4	3-9	4-2	4-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
175.00	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-5	1-6
200.00	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-8	1-10	2-0
225.00	0-11	1-1	1-2	1-4	1-6	1-8	1-11	2-1	2-4	2-6
250.00	1-2	1-4	1-5	1-8	1-10	2-1	2-4	2-7	2-10	3-1
275.00	1-5	1-7	1-9	2-0	2-3	2-6	2-10	3-2	3-5	3-9
300.00	1-8	1-10	2-1	2-4	2-8	3-0	3-4	3-9	4-1	4-5
325.00	1-11	2-2	2-6	2-9	3-2	3-6	3-11	4-4	4-10	5-3
350.00	2-3	2-6	2-10	3-3	3-8	4-1	4-7	5-1	5-7	6-1
375.00	2-7	2-11	3-3	3-8	4-2	4-8	5-3	5-10	6-5	6-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.135

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8	1-9	1-11
225.00	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-2	2-3	2-5
250.00	1-7	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-9	2-11
275.00	1-10	2-0	2-3	2-5	2-7	2-9	3-0	3-2	3-4	3-7
300.00	2-3	2-5	2-8	2-10	3-1	3-4	3-7	3-9	4-0	4-3
325.00	2-7	2-10	3-1	3-4	3-7	3-11	4-2	4-5	4-8	5-0
350.00	3-0	3-4	3-7	3-11	4-2	4-6	4-10	5-2	5-5	5-9
375.00	3-6	3-9	4-1	4-6	4-10	5-2	5-7	5-11	6-3	6-7
400.00	3-11	4-4	4-8	5-1	5-6	5-11	6-4	6-9	7-1	7-6
425.00	4-5	4-10	5-3	5-9	6-2	6-8	7-2	7-7	8-1	8-6
450.00	5-0	5-5	5-11	6-5	6-11	7-6	8-0	8-6	9-0	9-6
475.00	5-7	6-1	6-7	7-2	7-9	8-4	8-11	9-6	10-1	10-7
500.00	6-2	6-9	7-4	7-11	8-7	9-3	9-10	10-6	11-2	11-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-5	1-6	1-7	1-9	1-10	1-11	2-0	2-1	2-3	2-4
225.00	1-9	1-11	2-1	2-2	2-4	2-5	2-7	2-8	2-10	2-11
250.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-5	3-7
275.00	2-8	2-10	3-1	3-3	3-5	3-8	3-10	4-0	4-2	4-4
300.00	3-2	3-5	3-8	3-11	4-1	4-4	4-7	4-9	5-0	5-2
325.00	3-8	4-0	4-3	4-7	4-10	5-1	5-4	5-7	5-10	6-1
350.00	4-3	4-7	4-11	5-3	5-7	5-11	6-2	6-6	6-9	7-1
375.00	4-11	5-4	5-8	6-1	6-5	6-9	7-1	7-5	7-9	8-1
400.00	5-7	6-0	6-6	6-11	7-4	7-8	8-1	8-6	8-10	9-3
425.00	6-4	6-10	7-4	7-9	8-3	8-8	9-2	9-7	10-0	10-5
450.00	7-1	7-8	8-2	8-9	9-3	9-9	10-3	10-9	11-2	11-8
475.00	7-11	8-6	9-1	9-9	10-4	10-10	11-5	12-0	12-6	13-0
500.00	8-9	9-5	10-1	10-9	11-5	12-1	12-8	13-3	13-10	14-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.136

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-6	2-7	2-9	2-10	2-11	3-0	3-2	3-3	3-4	3-5
275.00	3-0	3-2	3-4	3-5	3-7	3-8	3-10	3-11	4-0	4-2
300.00	3-7	3-9	3-11	4-1	4-3	4-5	4-6	4-8	4-10	4-11
325.00	4-3	4-5	4-7	4-9	5-0	5-2	5-4	5-6	5-8	5-10
350.00	4-11	5-1	5-4	5-7	5-9	6-0	6-2	6-4	6-6	6-9
375.00	5-8	5-11	6-2	6-4	6-7	6-10	7-1	7-4	7-6	7-9
400.00	6-5	6-8	7-0	7-3	7-6	7-9	8-1	8-4	8-7	8-9
425.00	7-3	7-7	7-10	8-2	8-6	8-9	9-1	9-4	9-8	9-11
450.00	8-1	8-6	8-10	9-2	9-6	9-10	10-2	10-6	10-10	11-1
475.00	9-0	9-5	9-10	10-3	10-7	11-0	11-4	11-8	12-1	12-5
500.00	10-0	10-5	10-11	11-4	11-9	12-2	12-7	13-0	13-4	13-9
525.00	11-0	11-6	12-0	12-6	13-0	13-5	13-10	14-4	14-9	15-2
550.00	12-1	12-8	13-2	13-9	14-3	14-9	15-3	15-8	16-2	16-7
575.00	13-3	13-10	14-5	15-0	15-7	16-1	16-8	17-2	17-8	18-2
600.00	14-5	15-1	15-8	16-4	16-11	17-6	18-1	18-8	19-3	19-9
625.00	15-8	16-4	17-0	17-9	18-4	19-0	19-8	20-3	20-11	21-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9	3-10
275.00	3-7	3-9	3-10	4-0	4-1	4-3	4-4	4-5	4-7	4-8
300.00	4-4	4-5	4-7	4-9	4-11	5-0	5-2	5-3	5-5	5-6
325.00	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-2	6-4	6-6
350.00	5-10	6-1	6-3	6-5	6-8	6-10	7-0	7-2	7-4	7-6
375.00	6-9	6-11	7-2	7-5	7-8	7-10	8-1	8-3	8-5	8-8
400.00	7-8	7-11	8-2	8-5	8-8	8-11	9-2	9-5	9-7	9-10
425.00	8-8	8-11	9-3	9-6	9-10	10-1	10-4	10-7	10-10	11-1
450.00	9-8	10-0	10-4	10-8	11-0	11-4	11-7	11-11	12-2	12-6
475.00	10-9	11-2	11-6	11-11	12-3	12-7	12-11	13-3	13-7	13-11
500.00	11-11	12-4	12-9	13-2	13-7	13-11	14-4	14-8	15-1	15-5
525.00	13-2	13-8	14-1	14-6	15-0	15-5	15-9	16-2	16-7	17-0
550.00	14-6	15-0	15-6	15-11	16-5	16-11	17-4	17-9	18-3	18-8
575.00	15-10	16-4	16-11	17-5	17-11	18-5	18-11	19-5	19-11	20-4
600.00	17-3	17-10	18-5	19-0	19-7	20-1	20-8	21-2	21-8	22-2
625.00	18-8	19-4	20-0	20-7	21-3	21-10	22-5	23-0	23-6	24-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

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Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	0.873	0.72	1525	0.61	1800*
0	0	0	0	0.111	0.09	1610	0.07	1871
30	0	0	0	0.111	0.11	1317	0.08	1690
40	0	0	0	0.111	0.11	1220	0.09	1627
50	0	0	0	0.111	0.12	1122	0.09	1564
60	0	0	0	0.111	0.14	1025	0.09	1499
70	0	0	0	0.111	0.15	928	0.10	1433
80	0	0	0	0.111	0.17	831	0.10	1366
90	0	0	0	0.111	0.19	735	0.11	1297
100	0	0	0	0.111	0.22	639	0.11	1228
110	0	0	0	0.111	0.25	545	0.12	1158
120	0	0	0	0.111	0.31	453	0.13	1086
130	0	0	0	0.111	0.38	366	0.14	1014
167	0	0	0	0.111	0.91	153	0.19	739
212	0	0	0	0.111	1.60	87	0.35	399

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	0.873	2.61	1672	2.43	1800*
0	0	0	0	0.111	0.37	1503	0.32	1726
30	0	0	0	0.111	0.46	1213	0.36	1538
40	0	0	0	0.111	0.50	1117	0.38	1473
50	0	0	0	0.111	0.54	1022	0.39	1407
60	0	0	0	0.111	0.60	927	0.41	1340
70	0	0	0	0.111	0.67	834	0.44	1271
80	0	0	0	0.111	0.75	742	0.46	1202
90	0	0	0	0.111	0.85	653	0.49	1132
100	0	0	0	0.111	0.98	568	0.52	1062
110	0	0	0	0.111	1.14	488	0.56	990
120	0	0	0	0.111	1.33	416	0.60	918
130	0	0	0	0.111	1.56	355	0.66	846
167	0	0	0	0.111	2.56	217	0.96	581
212	0	0	0	0.111	3.67	151	1.75	316

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 138 OF 145

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.138

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	0.873	5.47	1800	5.47	1800*
0	0	0	0	0.111	0.96	1296	0.85	1473
30	0	0	0	0.111	1.23	1016	0.98	1274
40	0	0	0	0.111	1.35	926	1.04	1206
50	0	0	0	0.111	1.49	837	1.10	1137
60	0	0	0	0.111	1.66	752	1.17	1068
70	0	0	0	0.111	1.86	671	1.25	998
80	0	0	0	0.111	2.10	596	1.34	929
90	0	0	0	0.111	2.37	527	1.45	860
100	0	0	0	0.111	2.68	467	1.58	791
110	0	0	0	0.111	3.01	415	1.73	724
120	0	0	0	0.111	3.36	371	1.90	658
130	0	0	0	0.111	3.73	335	2.10	595
167	0	0	0	0.111	5.03	249	3.10	403
212	0	0	0	0.111	6.43	195	4.61	271

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	0.873	9.73	1800	9.73	1800*
0	0	0	0	0.111	2.74	812	2.01	1102
30	0	0	0	0.111	3.69	601	2.46	902
40	0	0	0	0.111	4.08	544	2.65	837
50	0	0	0	0.111	4.49	494	2.87	774
60	0	0	0	0.111	4.92	451	3.12	713
70	0	0	0	0.111	5.36	414	3.39	654
80	0	0	0	0.111	5.80	383	3.70	600
90	0	0	0	0.111	6.23	356	4.04	550
100	0	0	0	0.111	6.66	334	4.40	504
110	0	0	0	0.111	7.08	314	4.79	464
120	0	0	0	0.111	7.49	297	5.19	428
130	0	0	0	0.111	7.89	282	5.60	397
167	0	0	0	0.111	9.26	240	7.11	313
212	0	0	0	0.111	10.76	207	8.81	252

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 139 OF 145

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.139

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	0.873	15.22	1800	15.22	1800*
0	0	0	0	0.111	7.45	466	5.12	678
30	0	0	0	0.111	8.96	387	6.38	544
40	0	0	0	0.111	9.45	368	6.84	507
50	0	0	0	0.111	9.93	350	7.31	475
60	0	0	0	0.111	10.39	334	7.79	446
70	0	0	0	0.111	10.85	320	8.26	420
80	0	0	0	0.111	11.29	308	8.74	397
90	0	0	0	0.111	11.73	296	9.21	377
100	0	0	0	0.111	12.15	286	9.67	359
110	0	0	0	0.111	12.56	277	10.13	343
120	0	0	0	0.111	12.96	268	10.58	329
130	0	0	0	0.111	13.36	260	11.02	316
167	0	0	0	0.111	14.74	236	12.56	277
212	0	0	0	0.111	16.30	214	14.28	244

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 140 OF 145

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.140

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.141

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
225.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-9
250.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-10
200.00	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-2
225.00	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-3	1-5
250.00	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.142

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
225.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0
250.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-2
275.00	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
300.00	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-9
325.00	1-1	1-2	1-3	1-3	1-4	1-6	1-7	1-8	1-10	2-0
350.00	1-3	1-4	1-5	1-6	1-7	1-8	1-10	2-0	2-2	2-4
375.00	1-5	1-6	1-7	1-9	1-10	1-11	2-1	2-3	2-6	2-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-4	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-9
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0
200.00	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-4
225.00	0-8	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-8
250.00	0-9	0-10	0-11	1-0	1-2	1-4	1-5	1-8	1-10	2-1
275.00	0-11	1-0	1-2	1-3	1-5	1-7	1-9	2-0	2-3	2-6
300.00	1-2	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-8	3-0
325.00	1-4	1-5	1-7	1-9	1-11	2-2	2-6	2-9	3-2	3-6
350.00	1-6	1-8	1-10	2-0	2-3	2-6	2-10	3-3	3-8	4-1
375.00	1-9	1-11	2-1	2-4	2-7	2-11	3-3	3-8	4-2	4-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.143

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2
225.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6
250.00	0-11	1-0	1-0	1-1	1-3	1-4	1-5	1-7	1-9	1-10
275.00	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3
300.00	1-3	1-5	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-8
325.00	1-6	1-7	1-9	1-11	2-1	2-3	2-5	2-8	2-11	3-2
350.00	1-9	1-11	2-0	2-2	2-5	2-7	2-10	3-1	3-4	3-8
375.00	2-0	2-2	2-4	2-6	2-9	3-0	3-3	3-7	3-10	4-3
400.00	2-4	2-6	2-8	2-10	3-1	3-5	3-8	4-0	4-5	4-9
425.00	2-7	2-9	3-0	3-3	3-6	3-10	4-2	4-7	5-0	5-5
450.00	2-11	3-1	3-4	3-8	3-11	4-4	4-8	5-1	5-7	6-1
475.00	3-3	3-6	3-9	4-1	4-5	4-9	5-3	5-8	6-3	6-9
500.00	3-7	3-10	4-2	4-6	4-10	5-4	5-9	6-4	6-11	7-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-8	1-9
225.00	1-1	1-2	1-3	1-5	1-7	1-8	1-10	2-0	2-1	2-3
250.00	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9
275.00	1-7	1-9	1-11	2-1	2-4	2-6	2-9	2-11	3-2	3-4
300.00	1-11	2-1	2-4	2-6	2-9	3-0	3-3	3-6	3-9	4-0
325.00	2-2	2-5	2-8	3-0	3-3	3-6	3-10	4-1	4-5	4-8
350.00	2-7	2-10	3-1	3-5	3-9	4-1	4-5	4-9	5-1	5-5
375.00	2-11	3-3	3-7	3-11	4-4	4-9	5-1	5-6	5-10	6-3
400.00	3-4	3-8	4-1	4-6	4-11	5-4	5-10	6-3	6-8	7-1
425.00	3-9	4-2	4-7	5-1	5-7	6-1	6-7	7-0	7-6	8-0
450.00	4-3	4-8	5-2	5-8	6-3	6-9	7-4	7-11	8-5	9-0
475.00	4-8	5-3	5-9	6-4	6-11	7-7	8-2	8-10	9-5	10-0
500.00	5-3	5-9	6-5	7-0	7-8	8-5	9-1	9-9	10-5	11-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.144

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-6	1-7	1-9	1-10	1-11	2-1	2-2	2-4	2-5	2-6
275.00	1-10	1-11	2-1	2-3	2-4	2-6	2-8	2-9	2-11	3-1
300.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
325.00	2-6	2-8	2-11	3-1	3-3	3-6	3-8	3-11	4-1	4-3
350.00	2-11	3-2	3-4	3-7	3-10	4-1	4-3	4-6	4-9	5-0
375.00	3-4	3-7	3-10	4-1	4-5	4-8	4-11	5-2	5-5	5-8
400.00	3-10	4-1	4-5	4-8	5-0	5-3	5-7	5-11	6-2	6-6
425.00	4-3	4-7	4-11	5-3	5-8	6-0	6-4	6-8	7-0	7-4
450.00	4-10	5-2	5-6	5-11	6-4	6-8	7-1	7-6	7-10	8-2
475.00	5-4	5-9	6-2	6-7	7-0	7-5	7-11	8-4	8-9	9-2
500.00	5-11	6-5	6-10	7-4	7-9	8-3	8-9	9-3	9-8	10-2
525.00	6-7	7-0	7-6	8-1	8-7	9-1	9-8	10-2	10-8	11-2
550.00	7-2	7-9	8-3	8-10	9-5	10-0	10-7	11-2	11-8	12-3
575.00	7-10	8-5	9-1	9-8	10-4	10-11	11-7	12-2	12-10	13-5
600.00	8-7	9-2	9-10	10-6	11-3	11-11	12-7	13-3	13-11	14-7
625.00	9-3	10-0	10-8	11-5	12-2	12-11	13-8	14-5	15-1	15-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-1	2-3	2-4	2-6	2-7	2-9	2-10	2-11	3-0	3-2
275.00	2-7	2-9	2-10	3-0	3-2	3-3	3-5	3-7	3-8	3-10
300.00	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-4	4-6
325.00	3-7	3-9	4-0	4-2	4-5	4-7	4-9	4-11	5-2	5-4
350.00	4-2	4-5	4-8	4-10	5-1	5-4	5-6	5-9	5-11	6-2
375.00	4-9	5-0	5-4	5-7	5-10	6-1	6-4	6-7	6-10	7-1
400.00	5-5	5-9	6-1	6-4	6-8	6-11	7-3	7-6	7-9	8-0
425.00	6-1	6-6	6-10	7-2	7-6	7-10	8-2	8-6	8-9	9-1
450.00	6-10	7-3	7-8	8-0	8-5	8-9	9-2	9-6	9-10	10-2
475.00	7-8	8-1	8-6	9-0	9-5	9-9	10-2	10-7	11-0	11-4
500.00	8-6	9-0	9-5	9-11	10-5	10-10	11-4	11-9	12-2	12-7
525.00	9-4	9-11	10-5	10-11	11-6	12-0	12-5	12-11	13-5	13-10
550.00	10-3	10-10	11-5	12-0	12-7	13-2	13-8	14-2	14-8	15-2
575.00	11-2	11-10	12-6	13-2	13-9	14-4	14-11	15-6	16-1	16-7
600.00	12-2	12-11	13-7	14-4	15-0	15-8	16-3	16-11	17-6	18-1
625.00	13-3	14-0	14-9	15-6	16-3	16-11	17-8	18-4	19-0	19-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.145

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR #2 - 3/4 AWAC CONDUCTOR. CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 HEAVY LOADING CONDITION
- 1000 LB TENSION ---------- 815.2
- 1500 LB TENSION ---------- 815.10
- 2000 LB TENSION ---------- 815.18
- 2500 LB TENSION ---------- 815.26
- 3000 LB TENSION ---------- 815.34
- 3500 LB TENSION ---------- 815.42

SDG&E EXTRA HEAVY LOADING CONDITION
- 1000 LB TENSION ---------- 815.50
- 1500 LB TENSION ---------- 815.58
- 2000 LB TENSION ---------- 815.66
- 2500 LB TENSION ---------- 815.74
- 3000 LB TENSION ---------- 815.82
- 3500 LB TENSION ---------- 815.90

65 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 815.98
- 1500 LB TENSION ---------- 815.106
- 2000 LB TENSION ---------- 815.114
- 2500 LB TENSION ---------- 815.122
- 3000 LB TENSION ---------- 815.130
- 3500 LB TENSION ---------- 815.138

85 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 815.146
- 1500 LB TENSION ---------- 815.154
- 2000 LB TENSION ---------- 815.162
- 2500 LB TENSION ---------- 815.170
- 3000 LB TENSION ---------- 815.178
- 3500 LB TENSION ---------- 815.186

111 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 815.194
- 1500 LB TENSION ---------- 815.202
- 2000 LB TENSION ---------- 815.210
- 2500 LB TENSION ---------- 815.218
- 3000 LB TENSION ---------- 815.226
- 3500 LB TENSION ---------- 815.234

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REFERENCE:

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.020	1.28	1000	1.28	1000*
0.0	0.00	0.00	0.00	0.197	0.58	427	0.55	451
30.0	0.00	0.00	0.00	0.197	0.92	266	0.88	279
40.0	0.00	0.00	0.00	0.197	1.04	237	1.00	246
50.0	0.00	0.00	0.00	0.197	1.15	214	1.12	221
60.0	0.00	0.00	0.00	0.197	1.26	196	1.22	201
70.0	0.00	0.00	0.00	0.197	1.36	181	1.33	186
80.0	0.00	0.00	0.00	0.197	1.45	170	1.43	173
90.0	0.00	0.00	0.00	0.197	1.54	160	1.51	163
100.0	0.00	0.00	0.00	0.197	1.63	151	1.59	155
110.0	0.00	0.00	0.00	0.197	1.71	144	1.67	148
120.0	0.00	0.00	0.00	0.197	1.78	138	1.74	142
130.0	0.00	0.00	0.00	0.197	1.85	133	1.81	136
167.0	0.00	0.00	0.00	0.197	2.10	118	2.06	120
212.0	0.00	0.00	0.00	0.197	2.36	104	2.33	106

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.020	5.11	1000	5.11	1000*
0.0	0.00	0.00	0.00	0.197	4.37	226	4.31	229
30.0	0.00	0.00	0.00	0.197	4.74	208	4.70	210
40.0	0.00	0.00	0.00	0.197	4.86	203	4.82	205
50.0	0.00	0.00	0.00	0.197	4.98	198	4.94	200
60.0	0.00	0.00	0.00	0.197	5.09	194	5.06	195
70.0	0.00	0.00	0.00	0.197	5.20	190	5.17	191
80.0	0.00	0.00	0.00	0.197	5.31	186	5.28	187
90.0	0.00	0.00	0.00	0.197	5.42	182	5.38	183
100.0	0.00	0.00	0.00	0.197	5.53	179	5.48	180
110.0	0.00	0.00	0.00	0.197	5.63	176	5.58	177
120.0	0.00	0.00	0.00	0.197	5.72	173	5.67	174
130.0	0.00	0.00	0.00	0.197	5.81	170	5.76	172
167.0	0.00	0.00	0.00	0.197	6.14	161	6.09	162
212.0	0.00	0.00	0.00	0.197	6.52	152	6.47	153

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.2

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.020	11.54	1000	11.54	1000*
0.0	0.00	0.00	0.00	0.197	10.81	206	10.76	207
30.0	0.00	0.00	0.00	0.197	11.17	199	11.12	200
40.0	0.00	0.00	0.00	0.197	11.29	197	11.24	198
50.0	0.00	0.00	0.00	0.197	11.40	195	11.36	196
60.0	0.00	0.00	0.00	0.197	11.52	194	11.48	194
70.0	0.00	0.00	0.00	0.197	11.63	192	11.60	192
80.0	0.00	0.00	0.00	0.197	11.75	190	11.71	190
90.0	0.00	0.00	0.00	0.197	11.86	188	11.82	189
100.0	0.00	0.00	0.00	0.197	11.97	186	11.92	187
110.0	0.00	0.00	0.00	0.197	12.07	185	12.02	186
120.0	0.00	0.00	0.00	0.197	12.17	183	12.12	184
130.0	0.00	0.00	0.00	0.197	12.27	182	12.22	183
167.0	0.00	0.00	0.00	0.197	12.63	177	12.58	177
212.0	0.00	0.00	0.00	0.197	13.06	171	13.01	172

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.020	20.61	1000	20.61	1000*
0.0	0.00	0.00	0.00	0.197	19.89	200	19.83	201
30.0	0.00	0.00	0.00	0.197	20.24	197	20.19	197
40.0	0.00	0.00	0.00	0.197	20.36	196	20.31	196
50.0	0.00	0.00	0.00	0.197	20.47	194	20.43	195
60.0	0.00	0.00	0.00	0.197	20.59	193	20.55	194
70.0	0.00	0.00	0.00	0.197	20.70	192	20.67	193
80.0	0.00	0.00	0.00	0.197	20.82	191	20.79	192
90.0	0.00	0.00	0.00	0.197	20.93	190	20.90	191
100.0	0.00	0.00	0.00	0.197	21.04	189	21.00	190
110.0	0.00	0.00	0.00	0.197	21.15	188	21.10	189
120.0	0.00	0.00	0.00	0.197	21.26	187	21.20	188
130.0	0.00	0.00	0.00	0.197	21.36	187	21.30	187
167.0	0.00	0.00	0.00	0.197	21.73	183	21.68	184
212.0	0.00	0.00	0.00	0.197	22.17	180	22.12	180

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.3

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.020	32.40	1000	32.40	1000*
0.0	0.00	0.00	0.00	0.197	31.68	197	31.63	198
30.0	0.00	0.00	0.00	0.197	32.03	195	31.98	196
40.0	0.00	0.00	0.00	0.197	32.15	195	32.10	195
50.0	0.00	0.00	0.00	0.197	32.26	194	32.22	194
60.0	0.00	0.00	0.00	0.197	32.38	193	32.34	194
70.0	0.00	0.00	0.00	0.197	32.49	193	32.46	193
80.0	0.00	0.00	0.00	0.197	32.61	192	32.58	192
90.0	0.00	0.00	0.00	0.197	32.72	191	32.69	192
100.0	0.00	0.00	0.00	0.197	32.84	191	32.79	191
110.0	0.00	0.00	0.00	0.197	32.95	190	32.89	190
120.0	0.00	0.00	0.00	0.197	33.05	190	33.00	190
130.0	0.00	0.00	0.00	0.197	33.15	189	33.10	189
167.0	0.00	0.00	0.00	0.197	33.53	187	33.48	187
212.0	0.00	0.00	0.00	0.197	33.99	184	33.94	185

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.4

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11
100.00	0-9	0-11	1-0	1-1	1-3	1-4	1-5	1-6	1-7	1-8
125.00	1-2	1-5	1-7	1-9	1-11	2-1	2-3	2-4	2-6	2-7
150.00	1-9	2-0	2-3	2-6	2-9	3-0	3-3	3-5	3-7	3-9
175.00	2-4	2-8	3-1	3-5	3-9	4-1	4-4	4-8	4-10	5-1
200.00	3-1	3-6	4-0	4-6	4-11	5-4	5-9	6-1	6-4	6-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0
100.00	0-10	0-11	1-0	1-2	1-3	1-4	1-5	1-7	1-8	1-9
125.00	1-3	1-5	1-8	1-10	2-0	2-1	2-3	2-5	2-7	2-8
150.00	1-10	2-1	2-4	2-7	2-10	3-1	3-3	3-6	3-8	3-10
175.00	2-6	2-10	3-2	3-6	3-10	4-2	4-5	4-9	5-0	5-3
200.00	3-3	3-8	4-2	4-7	5-0	5-5	5-10	6-2	6-6	6-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.5

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-2	1-2	1-3	1-3	1-4	1-4	1-4	1-4	1-5
125.00	1-9	1-10	1-11	1-11	2-0	2-0	2-1	2-1	2-2	2-2
150.00	2-7	2-8	2-9	2-9	2-10	2-11	3-0	3-0	3-1	3-2
175.00	3-6	3-7	3-8	3-9	3-10	3-11	4-1	4-1	4-2	4-3
200.00	4-7	4-8	4-10	4-11	5-1	5-2	5-3	5-5	5-6	5-7
225.00	5-9	5-11	6-1	6-3	6-5	6-7	6-8	6-10	6-11	7-1
250.00	7-2	7-4	7-6	7-9	7-11	8-1	8-3	8-5	8-7	8-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-4	1-5	1-5
125.00	1-10	1-10	1-11	1-11	2-0	2-0	2-1	2-1	2-2	2-2
150.00	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-1	3-1	3-2
175.00	3-6	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4
200.00	4-7	4-9	4-10	5-0	5-1	5-2	5-4	5-5	5-6	5-8
225.00	5-10	6-0	6-2	6-4	6-5	6-7	6-9	6-10	7-0	7-1
250.00	7-3	7-5	7-7	7-9	8-0	8-2	8-4	8-6	8-8	8-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.6

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-9	2-10	2-10	2-10	2-11	2-11	2-11	3-0	3-0
175.00	3-9	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-1	4-1
200.00	4-11	4-11	5-0	5-1	5-1	5-2	5-2	5-3	5-4	5-4
225.00	6-2	6-3	6-4	6-5	6-5	6-6	6-7	6-8	6-8	6-9
250.00	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-2	8-3	8-4
275.00	9-3	9-4	9-5	9-7	9-8	9-9	9-10	9-11	10-0	10-1
300.00	11-0	11-1	11-3	11-4	11-6	11-7	11-9	11-10	11-11	12-0
325.00	12-11	13-1	13-2	13-4	13-6	13-7	13-9	13-11	14-0	14-1
350.00	15-0	15-2	15-4	15-6	15-8	15-10	15-11	16-1	16-3	16-5
375.00	17-3	17-5	17-7	17-9	18-0	18-2	18-4	18-6	18-8	18-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-9	2-10	2-10	2-11	2-11	2-11	3-0	3-0	3-0
175.00	3-9	3-10	3-10	3-11	3-11	3-11	4-0	4-0	4-1	4-1
200.00	4-11	5-0	5-0	5-1	5-1	5-2	5-3	5-3	5-4	5-4
225.00	6-3	6-3	6-4	6-5	6-6	6-6	6-7	6-8	6-9	6-9
250.00	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-4	8-5
275.00	9-3	9-5	9-6	9-7	9-8	9-9	9-10	10-0	10-1	10-2
300.00	11-1	11-2	11-3	11-5	11-6	11-8	11-9	11-10	12-0	12-1
325.00	13-0	13-1	13-3	13-5	13-6	13-8	13-9	13-11	14-1	14-2
350.00	15-1	15-3	15-4	15-6	15-8	15-10	16-0	16-2	16-4	16-5
375.00	17-3	17-6	17-8	17-10	18-0	18-2	18-4	18-7	18-9	18-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.7

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-3	5-3	5-3
225.00	6-4	6-5	6-5	6-5	6-6	6-6	6-7	6-7	6-8	6-8
250.00	7-10	7-10	7-11	8-0	8-0	8-1	8-1	8-2	8-2	8-3
275.00	9-6	9-6	9-7	9-8	9-8	9-9	9-10	9-10	9-11	9-11
300.00	11-3	11-4	11-5	11-6	11-7	11-7	11-8	11-9	11-10	11-10
325.00	13-3	13-4	13-5	13-6	13-7	13-8	13-8	13-9	13-10	13-11
350.00	15-4	15-5	15-6	15-8	15-9	15-10	15-11	16-0	16-1	16-2
375.00	17-8	17-9	17-10	17-11	18-1	18-2	18-3	18-4	18-5	18-6
400.00	20-1	20-2	20-4	20-5	20-7	20-8	20-9	20-11	21-0	21-1
425.00	22-8	22-10	22-11	23-1	23-3	23-4	23-6	23-7	23-9	23-10
450.00	25-5	25-7	25-9	25-11	26-0	26-2	26-4	26-6	26-7	26-9
475.00	28-4	28-6	28-8	28-10	29-0	29-2	29-4	29-6	29-8	29-10
500.00	31-5	31-7	31-10	32-0	32-2	32-4	32-7	32-9	32-11	33-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-0	5-1	5-1	5-1	5-2	5-2	5-2	5-3	5-3	5-3
225.00	6-4	6-5	6-5	6-6	6-6	6-6	6-7	6-7	6-8	6-8
250.00	7-10	7-11	7-11	8-0	8-0	8-1	8-1	8-2	8-2	8-3
275.00	9-6	9-7	9-7	9-8	9-9	9-9	9-10	9-10	9-11	10-0
300.00	11-4	11-4	11-5	11-6	11-7	11-8	11-8	11-9	11-10	11-11
325.00	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-11	13-11
350.00	15-5	15-6	15-7	15-8	15-9	15-10	15-11	16-0	16-1	16-2
375.00	17-8	17-9	17-11	18-0	18-1	18-2	18-3	18-5	18-6	18-7
400.00	20-1	20-3	20-4	20-6	20-7	20-8	20-10	20-11	21-1	21-2
425.00	22-9	22-10	23-0	23-1	23-3	23-5	23-6	23-8	23-9	23-11
450.00	25-6	25-8	25-9	25-11	26-1	26-3	26-4	26-6	26-8	26-10
475.00	28-5	28-7	28-9	28-11	29-1	29-3	29-5	29-7	29-9	29-11
500.00	31-6	31-8	31-10	32-1	32-3	32-5	32-7	32-9	32-11	33-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.8

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-11	8-0	8-0	8-0	8-1	8-1	8-1	8-2	8-2	8-2
275.00	9-7	9-8	9-8	9-9	9-9	9-9	9-10	9-10	9-11	9-11
300.00	11-5	11-6	11-6	11-7	11-7	11-8	11-8	11-9	11-9	11-10
325.00	13-5	13-6	13-6	13-7	13-7	13-8	13-9	13-9	13-10	13-10
350.00	15-7	15-8	15-8	15-9	15-10	15-10	15-11	16-0	16-0	16-1
375.00	17-11	17-11	18-0	18-1	18-2	18-3	18-3	18-4	18-5	18-5
400.00	20-4	20-5	20-6	20-7	20-8	20-9	20-10	20-11	20-11	21-0
425.00	23-0	23-1	23-2	23-3	23-4	23-5	23-6	23-7	23-8	23-9
450.00	25-9	25-11	26-0	26-1	26-2	26-3	26-4	26-5	26-6	26-7
475.00	28-9	28-10	29-0	29-1	29-2	29-3	29-5	29-6	29-7	29-8
500.00	31-10	32-0	32-1	32-3	32-4	32-6	32-7	32-8	32-9	32-11
525.00	35-2	35-3	35-5	35-7	35-8	35-10	35-11	36-1	36-2	36-3
550.00	38-7	38-9	38-11	39-0	39-2	39-4	39-6	39-7	39-9	39-10
575.00	42-3	42-4	42-6	42-8	42-10	43-0	43-2	43-4	43-5	43-7
600.00	46-0	46-2	46-4	46-6	46-8	46-10	47-0	47-2	47-4	47-6
625.00	49-11	50-2	50-4	50-6	50-8	50-11	51-1	51-3	51-5	51-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-11	8-0	8-0	8-0	8-1	8-1	8-1	8-2	8-2	8-2
275.00	9-7	9-8	9-8	9-9	9-9	9-9	9-10	9-10	9-11	9-11
300.00	11-5	11-6	11-6	11-7	11-7	11-8	11-8	11-9	11-9	11-10
325.00	13-5	13-6	13-6	13-7	13-8	13-8	13-9	13-9	13-10	13-10
350.00	15-7	15-8	15-9	15-9	15-10	15-11	15-11	16-0	16-1	16-1
375.00	17-11	18-0	18-0	18-1	18-2	18-3	18-4	18-4	18-5	18-6
400.00	20-5	20-6	20-6	20-7	20-8	20-9	20-10	20-11	21-0	21-1
425.00	23-0	23-1	23-2	23-3	23-4	23-5	23-6	23-7	23-8	23-9
450.00	25-10	25-11	26-0	26-1	26-2	26-4	26-5	26-6	26-7	26-8
475.00	28-9	28-11	29-0	29-1	29-2	29-4	29-5	29-6	29-7	29-9
500.00	31-11	32-0	32-2	32-3	32-5	32-6	32-7	32-9	32-10	32-11
525.00	35-2	35-4	35-6	35-7	35-9	35-10	36-0	36-1	36-3	36-4
550.00	38-8	38-10	38-11	39-1	39-3	39-4	39-6	39-8	39-9	39-11
575.00	42-3	42-5	42-7	42-9	42-11	43-1	43-2	43-4	43-6	43-8
600.00	46-1	46-3	46-5	46-7	46-9	46-11	47-1	47-3	47-5	47-7
625.00	50-0	50-2	50-5	50-7	50-9	50-11	51-1	51-4	51-6	51-8

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SHEET 9 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.9

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.020	0.85	1500	0.85	1500*
0.0	0.00	0.00	0.00	0.197	0.21	1199	0.20	1218
30.0	0.00	0.00	0.00	0.197	0.30	827	0.28	865
40.0	0.00	0.00	0.00	0.197	0.35	711	0.33	751
50.0	0.00	0.00	0.00	0.197	0.41	601	0.38	643
60.0	0.00	0.00	0.00	0.197	0.49	502	0.45	542
70.0	0.00	0.00	0.00	0.197	0.59	418	0.54	453
80.0	0.00	0.00	0.00	0.197	0.70	352	0.65	379
90.0	0.00	0.00	0.00	0.197	0.82	301	0.77	322
100.0	0.00	0.00	0.00	0.197	0.94	263	0.88	280
110.0	0.00	0.00	0.00	0.197	1.05	234	0.98	251
120.0	0.00	0.00	0.00	0.197	1.15	214	1.08	228
130.0	0.00	0.00	0.00	0.197	1.25	197	1.18	209
167.0	0.00	0.00	0.00	0.197	1.57	157	1.50	164
212.0	0.00	0.00	0.00	0.197	1.90	130	1.84	134

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.020	3.40	1500	3.40	1500*
0.0	0.00	0.00	0.00	0.197	1.76	561	1.67	590
30.0	0.00	0.00	0.00	0.197	2.32	424	2.22	443
40.0	0.00	0.00	0.00	0.197	2.51	393	2.41	409
50.0	0.00	0.00	0.00	0.197	2.69	366	2.60	379
60.0	0.00	0.00	0.00	0.197	2.87	344	2.78	355
70.0	0.00	0.00	0.00	0.197	3.04	325	2.95	334
80.0	0.00	0.00	0.00	0.197	3.20	308	3.12	316
90.0	0.00	0.00	0.00	0.197	3.36	293	3.29	300
100.0	0.00	0.00	0.00	0.197	3.52	280	3.44	286
110.0	0.00	0.00	0.00	0.197	3.67	269	3.58	275
120.0	0.00	0.00	0.00	0.197	3.81	259	3.71	266
130.0	0.00	0.00	0.00	0.197	3.93	251	3.84	257
167.0	0.00	0.00	0.00	0.197	4.38	225	4.30	230
212.0	0.00	0.00	0.00	0.197	4.88	202	4.80	206

* Design Condition

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SHEET 10 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.10

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.020	7.67	1500	7.67	1500*
0.0	0.00	0.00	0.00	0.197	5.98	371	5.86	379
30.0	0.00	0.00	0.00	0.197	6.57	338	6.46	344
40.0	0.00	0.00	0.00	0.197	6.75	329	6.65	334
50.0	0.00	0.00	0.00	0.197	6.93	320	6.83	325
60.0	0.00	0.00	0.00	0.197	7.11	312	7.02	316
70.0	0.00	0.00	0.00	0.197	7.29	305	7.20	309
80.0	0.00	0.00	0.00	0.197	7.46	298	7.37	301
90.0	0.00	0.00	0.00	0.197	7.62	291	7.55	294
100.0	0.00	0.00	0.00	0.197	7.79	285	7.71	288
110.0	0.00	0.00	0.00	0.197	7.95	280	7.86	283
120.0	0.00	0.00	0.00	0.197	8.10	274	8.00	278
130.0	0.00	0.00	0.00	0.197	8.25	270	8.15	273
167.0	0.00	0.00	0.00	0.197	8.76	254	8.66	257
212.0	0.00	0.00	0.00	0.197	9.34	238	9.25	241

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.020	13.66	1500	13.66	1500*
0.0	0.00	0.00	0.00	0.197	12.00	329	11.88	333
30.0	0.00	0.00	0.00	0.197	12.56	315	12.45	318
40.0	0.00	0.00	0.00	0.197	12.74	310	12.64	313
50.0	0.00	0.00	0.00	0.197	12.92	306	12.82	309
60.0	0.00	0.00	0.00	0.197	13.10	302	13.00	304
70.0	0.00	0.00	0.00	0.197	13.27	298	13.18	300
80.0	0.00	0.00	0.00	0.197	13.44	294	13.36	296
90.0	0.00	0.00	0.00	0.197	13.61	291	13.54	292
100.0	0.00	0.00	0.00	0.197	13.78	287	13.70	289
110.0	0.00	0.00	0.00	0.197	13.95	284	13.86	286
120.0	0.00	0.00	0.00	0.197	14.11	281	14.01	283
130.0	0.00	0.00	0.00	0.197	14.26	278	14.16	280
167.0	0.00	0.00	0.00	0.197	14.80	268	14.70	270
212.0	0.00	0.00	0.00	0.197	15.43	257	15.33	259

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.11

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.020	21.40	1500	21.40	1500*
0.0	0.00	0.00	0.00	0.197	19.76	314	19.64	315
30.0	0.00	0.00	0.00	0.197	20.30	305	20.20	307
40.0	0.00	0.00	0.00	0.197	20.48	303	20.38	304
50.0	0.00	0.00	0.00	0.197	20.66	300	20.56	301
60.0	0.00	0.00	0.00	0.197	20.83	298	20.74	299
70.0	0.00	0.00	0.00	0.197	21.01	295	20.92	296
80.0	0.00	0.00	0.00	0.197	21.18	293	21.10	294
90.0	0.00	0.00	0.00	0.197	21.35	290	21.27	291
100.0	0.00	0.00	0.00	0.197	21.52	288	21.44	289
110.0	0.00	0.00	0.00	0.197	21.69	286	21.60	287
120.0	0.00	0.00	0.00	0.197	21.86	284	21.75	285
130.0	0.00	0.00	0.00	0.197	22.01	282	21.90	283
167.0	0.00	0.00	0.00	0.197	22.56	275	22.46	276
212.0	0.00	0.00	0.00	0.197	23.22	267	23.12	269

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.12

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7
100.00	0-3	0-3	0-4	0-5	0-5	0-7	0-8	0-9	0-11	1-0
125.00	0-5	0-5	0-6	0-7	0-9	0-10	1-0	1-2	1-5	1-6
150.00	0-7	0-8	0-9	0-10	1-0	1-3	1-6	1-9	2-0	2-3
175.00	0-9	0-10	1-0	1-2	1-5	1-8	2-0	2-4	2-8	3-0
200.00	1-0	1-2	1-4	1-6	1-10	2-2	2-7	3-1	3-6	3-11

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6	0-7
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-10	0-11	1-1
125.00	0-5	0-6	0-6	0-8	0-9	0-11	1-1	1-3	1-6	1-8
150.00	0-7	0-8	0-9	0-11	1-1	1-4	1-7	1-10	2-1	2-4
175.00	0-10	0-11	1-1	1-3	1-6	1-10	2-2	2-6	2-10	3-3
200.00	1-0	1-2	1-5	1-8	2-0	2-4	2-10	3-3	3-9	4-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.13

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11
125.00	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-3	1-4	1-5
150.00	1-2	1-3	1-4	1-6	1-7	1-8	1-9	1-10	1-11	2-0
175.00	1-7	1-8	1-10	2-0	2-2	2-3	2-5	2-6	2-8	2-9
200.00	2-0	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7
225.00	2-7	2-10	3-1	3-3	3-6	3-9	3-11	4-2	4-4	4-6
250.00	3-2	3-6	3-9	4-1	4-4	4-7	4-11	5-2	5-5	5-7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11
125.00	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-4	1-5
150.00	1-2	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-0	2-1
175.00	1-8	1-9	1-11	2-1	2-2	2-4	2-5	2-7	2-8	2-10
200.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
225.00	2-8	2-11	3-2	3-5	3-8	3-10	4-1	4-3	4-5	4-8
250.00	3-4	3-8	3-11	4-2	4-6	4-9	5-0	5-3	5-6	5-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-7	1-8	1-8	1-9	1-10	1-10	1-11	1-11	2-0
175.00	2-2	2-2	2-3	2-4	2-5	2-5	2-6	2-7	2-7	2-8
200.00	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6
225.00	3-6	3-8	3-9	3-10	3-11	4-1	4-2	4-3	4-4	4-5
250.00	4-4	4-6	4-7	4-9	4-10	5-0	5-1	5-3	5-4	5-5
275.00	5-3	5-5	5-7	5-9	5-11	6-1	6-2	6-4	6-6	6-7
300.00	6-3	6-5	6-8	6-10	7-0	7-2	7-4	7-7	7-9	7-10
325.00	7-4	7-7	7-10	8-0	8-3	8-5	8-8	8-10	9-1	9-3
350.00	8-6	8-9	9-1	9-4	9-7	9-10	10-0	10-3	10-6	10-8
375.00	9-9	10-1	10-5	10-8	11-0	11-3	11-6	11-10	12-1	12-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-8	1-8	1-9	1-9	1-10	1-10	1-11	1-11	2-0
175.00	2-2	2-3	2-4	2-4	2-5	2-6	2-6	2-7	2-8	2-8
200.00	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-6
225.00	3-7	3-8	3-10	3-11	4-0	4-1	4-2	4-3	4-5	4-6
250.00	4-5	4-7	4-8	4-10	4-11	5-1	5-2	5-4	5-5	5-6
275.00	5-4	5-6	5-8	5-10	6-0	6-1	6-3	6-5	6-7	6-8
300.00	6-5	6-7	6-9	6-11	7-1	7-3	7-5	7-7	7-9	7-11
325.00	7-6	7-8	7-11	8-2	8-4	8-7	8-9	8-11	9-2	9-4
350.00	8-8	8-11	9-2	9-5	9-8	9-11	10-2	10-5	10-7	10-10
375.00	10-0	10-3	10-7	10-10	11-1	11-5	11-8	11-11	12-2	12-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.15

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-1	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-5	3-6
225.00	3-11	3-11	4-0	4-1	4-1	4-2	4-3	4-3	4-4	4-5
250.00	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-3	5-4	5-5
275.00	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7
300.00	6-11	7-0	7-1	7-2	7-4	7-5	7-6	7-7	7-8	7-9
325.00	8-1	8-3	8-4	8-6	8-7	8-8	8-10	8-11	9-1	9-2
350.00	9-5	9-6	9-8	9-10	9-11	10-1	10-3	10-4	10-6	10-7
375.00	10-9	10-11	11-1	11-3	11-5	11-7	11-9	11-11	12-1	12-2
400.00	12-3	12-5	12-8	12-10	13-0	13-2	13-4	13-6	13-8	13-10
425.00	13-10	14-1	14-3	14-6	14-8	14-11	15-1	15-3	15-6	15-8
450.00	15-6	15-9	16-0	16-3	16-6	16-8	16-11	17-2	17-4	17-7
475.00	17-4	17-7	17-10	18-1	18-4	18-7	18-10	19-1	19-4	19-7
500.00	19-2	19-6	19-9	20-1	20-4	20-7	20-11	21-2	21-5	21-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6
225.00	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-4	4-4	4-5
250.00	4-10	4-11	5-0	5-1	5-1	5-2	5-3	5-4	5-5	5-5
275.00	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7
300.00	6-11	7-1	7-2	7-3	7-4	7-6	7-7	7-8	7-9	7-10
325.00	8-2	8-3	8-5	8-6	8-8	8-9	8-10	9-0	9-1	9-2
350.00	9-6	9-7	9-9	9-11	10-0	10-2	10-3	10-5	10-7	10-8
375.00	10-11	11-0	11-2	11-4	11-6	11-8	11-10	12-0	12-1	12-3
400.00	12-5	12-7	12-9	12-11	13-1	13-3	13-5	13-7	13-9	13-11
425.00	14-0	14-2	14-5	14-7	14-9	15-0	15-2	15-4	15-7	15-9
450.00	15-8	15-11	16-2	16-4	16-7	16-10	17-0	17-3	17-5	17-8
475.00	17-6	17-9	18-0	18-3	18-6	18-9	19-0	19-3	19-5	19-8
500.00	19-4	19-8	19-11	20-2	20-6	20-9	21-0	21-3	21-7	21-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.16

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-0	5-0	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-5
275.00	6-1	6-1	6-2	6-3	6-3	6-4	6-4	6-5	6-6	6-6
300.00	7-2	7-3	7-4	7-5	7-5	7-6	7-7	7-8	7-8	7-9
325.00	8-5	8-6	8-7	8-8	8-9	8-10	8-11	9-0	9-1	9-1
350.00	9-10	9-11	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7
375.00	11-3	11-4	11-5	11-7	11-8	11-9	11-10	11-11	12-1	12-2
400.00	12-10	12-11	13-0	13-2	13-3	13-5	13-6	13-7	13-9	13-10
425.00	14-5	14-7	14-9	14-10	15-0	15-1	15-3	15-4	15-6	15-7
450.00	16-2	16-4	16-6	16-8	16-10	16-11	17-1	17-3	17-4	17-6
475.00	18-1	18-3	18-5	18-7	18-9	18-11	19-0	19-2	19-4	19-6
500.00	20-0	20-2	20-5	20-7	20-9	20-11	21-1	21-3	21-5	21-7
525.00	22-1	22-3	22-6	22-8	22-10	23-1	23-3	23-6	23-8	23-10
550.00	24-3	24-5	24-8	24-11	25-1	25-4	25-6	25-9	26-0	26-2
575.00	26-6	26-9	27-0	27-3	27-5	27-8	27-11	28-2	28-5	28-7
600.00	28-10	29-1	29-4	29-8	29-11	30-2	30-5	30-8	30-11	31-2
625.00	31-4	31-7	31-11	32-2	32-5	32-9	33-0	33-3	33-7	33-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-5
275.00	6-1	6-2	6-2	6-3	6-4	6-4	6-5	6-5	6-6	6-7
300.00	7-3	7-4	7-4	7-5	7-6	7-7	7-7	7-8	7-9	7-10
325.00	8-6	8-7	8-8	8-9	8-9	8-10	8-11	9-0	9-1	9-2
350.00	9-10	9-11	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7
375.00	11-4	11-5	11-6	11-7	11-8	11-10	11-11	12-0	12-1	12-2
400.00	12-10	13-0	13-1	13-3	13-4	13-5	13-7	13-8	13-9	13-10
425.00	14-6	14-8	14-9	14-11	15-1	15-2	15-4	15-5	15-6	15-8
450.00	16-4	16-5	16-7	16-9	16-10	17-0	17-2	17-3	17-5	17-7
475.00	18-2	18-4	18-6	18-8	18-10	18-11	19-1	19-3	19-5	19-7
500.00	20-1	20-4	20-6	20-8	20-10	21-0	21-2	21-4	21-6	21-8
525.00	22-2	22-5	22-7	22-9	23-0	23-2	23-4	23-7	23-9	23-11
550.00	24-4	24-7	24-10	25-0	25-3	25-5	25-8	25-10	26-1	26-3
575.00	26-8	26-10	27-1	27-4	27-7	27-10	28-0	28-3	28-6	28-9
600.00	29-0	29-3	29-6	29-9	30-0	30-3	30-6	30-9	31-0	31-3
625.00	31-6	31-9	32-1	32-4	32-7	32-10	33-2	33-5	33-8	33-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.020	0.64	2000	0.64	2000*
0.0	0.00	0.00	0.00	0.197	0.13	1828	0.13	1841
30.0	0.00	0.00	0.00	0.197	0.17	1441	0.17	1481
40.0	0.00	0.00	0.00	0.197	0.19	1313	0.18	1360
50.0	0.00	0.00	0.00	0.197	0.21	1186	0.20	1239
60.0	0.00	0.00	0.00	0.197	0.23	1060	0.22	1118
70.0	0.00	0.00	0.00	0.197	0.26	936	0.25	998
80.0	0.00	0.00	0.00	0.197	0.30	815	0.28	879
90.0	0.00	0.00	0.00	0.197	0.35	699	0.32	763
100.0	0.00	0.00	0.00	0.197	0.42	590	0.38	652
110.0	0.00	0.00	0.00	0.197	0.50	493	0.45	549
120.0	0.00	0.00	0.00	0.197	0.60	411	0.54	458
130.0	0.00	0.00	0.00	0.197	0.70	353	0.62	397
167.0	0.00	0.00	0.00	0.197	1.08	228	0.98	250
212.0	0.00	0.00	0.00	0.197	1.49	165	1.40	176

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.020	2.55	2000	2.55	2000*
0.0	0.00	0.00	0.00	0.197	0.74	1340	0.71	1382
30.0	0.00	0.00	0.00	0.197	0.99	996	0.94	1052
40.0	0.00	0.00	0.00	0.197	1.10	892	1.04	949
50.0	0.00	0.00	0.00	0.197	1.24	796	1.16	851
60.0	0.00	0.00	0.00	0.197	1.39	709	1.29	761
70.0	0.00	0.00	0.00	0.197	1.56	633	1.45	680
80.0	0.00	0.00	0.00	0.197	1.74	568	1.62	608
90.0	0.00	0.00	0.00	0.197	1.92	513	1.80	547
100.0	0.00	0.00	0.00	0.197	2.11	467	1.99	495
110.0	0.00	0.00	0.00	0.197	2.30	428	2.18	452
120.0	0.00	0.00	0.00	0.197	2.49	396	2.36	417
130.0	0.00	0.00	0.00	0.197	2.65	372	2.52	391
167.0	0.00	0.00	0.00	0.197	3.22	306	3.09	319
212.0	0.00	0.00	0.00	0.197	3.84	257	3.71	266

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.18

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.020	5.74	2000	5.74	2000*
0.0	0.00	0.00	0.00	0.197	2.85	778	2.70	821
30.0	0.00	0.00	0.00	0.197	3.59	618	3.41	650
40.0	0.00	0.00	0.00	0.197	3.83	578	3.66	606
50.0	0.00	0.00	0.00	0.197	4.08	544	3.91	568
60.0	0.00	0.00	0.00	0.197	4.32	513	4.15	534
70.0	0.00	0.00	0.00	0.197	4.56	486	4.39	505
80.0	0.00	0.00	0.00	0.197	4.79	463	4.63	479
90.0	0.00	0.00	0.00	0.197	5.02	442	4.87	456
100.0	0.00	0.00	0.00	0.197	5.24	423	5.10	435
110.0	0.00	0.00	0.00	0.197	5.46	406	5.32	417
120.0	0.00	0.00	0.00	0.197	5.67	391	5.52	402
130.0	0.00	0.00	0.00	0.197	5.86	379	5.71	389
167.0	0.00	0.00	0.00	0.197	6.52	341	6.37	349
212.0	0.00	0.00	0.00	0.197	7.25	306	7.11	312

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.020	10.22	2000	10.22	2000*
0.0	0.00	0.00	0.00	0.197	7.20	548	6.99	565
30.0	0.00	0.00	0.00	0.197	8.01	493	7.81	506
40.0	0.00	0.00	0.00	0.197	8.26	478	8.07	489
50.0	0.00	0.00	0.00	0.197	8.52	463	8.33	474
60.0	0.00	0.00	0.00	0.197	8.76	450	8.58	460
70.0	0.00	0.00	0.00	0.197	9.00	438	8.83	447
80.0	0.00	0.00	0.00	0.197	9.24	427	9.07	435
90.0	0.00	0.00	0.00	0.197	9.47	417	9.31	424
100.0	0.00	0.00	0.00	0.197	9.70	407	9.55	413
110.0	0.00	0.00	0.00	0.197	9.93	398	9.78	404
120.0	0.00	0.00	0.00	0.197	10.15	389	9.99	395
130.0	0.00	0.00	0.00	0.197	10.35	382	10.19	388
167.0	0.00	0.00	0.00	0.197	11.05	358	10.89	363
212.0	0.00	0.00	0.00	0.197	11.86	333	11.71	338

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.19

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.020	16.00	2000	16.00	2000*
0.0	0.00	0.00	0.00	0.197	13.02	474	12.80	482
30.0	0.00	0.00	0.00	0.197	13.79	448	13.59	454
40.0	0.00	0.00	0.00	0.197	14.04	440	13.84	446
50.0	0.00	0.00	0.00	0.197	14.29	432	14.10	438
60.0	0.00	0.00	0.00	0.197	14.53	425	14.35	431
70.0	0.00	0.00	0.00	0.197	14.77	418	14.59	423
80.0	0.00	0.00	0.00	0.197	15.01	412	14.84	416
90.0	0.00	0.00	0.00	0.197	15.24	405	15.08	410
100.0	0.00	0.00	0.00	0.197	15.47	400	15.31	404
110.0	0.00	0.00	0.00	0.197	15.70	394	15.55	397
120.0	0.00	0.00	0.00	0.197	15.92	388	15.76	392
130.0	0.00	0.00	0.00	0.197	16.12	383	15.96	387
167.0	0.00	0.00	0.00	0.197	16.85	367	16.69	370
212.0	0.00	0.00	0.00	0.197	17.70	350	17.55	353

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-5
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0
175.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-2	1-4
200.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-6	1-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6
125.00	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-9
150.00	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10	0-11	1-1
175.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-6
200.00	0-8	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-8	2-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.21

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7
125.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10
150.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-3
175.00	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-6	1-8
200.00	0-10	0-11	1-0	1-2	1-4	1-5	1-7	1-10	2-0	2-2
225.00	1-1	1-2	1-4	1-6	1-8	1-10	2-1	2-3	2-6	2-9
250.00	1-4	1-6	1-7	1-10	2-0	2-3	2-6	2-10	3-1	3-5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7
125.00	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11
150.00	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-1	1-2	1-4
175.00	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-7	1-9
200.00	0-11	1-0	1-1	1-3	1-5	1-7	1-9	1-11	2-1	2-4
225.00	1-2	1-3	1-5	1-7	1-9	2-0	2-2	2-5	2-8	2-11
250.00	1-5	1-7	1-9	1-11	2-2	2-5	2-9	3-0	3-4	3-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.22

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-3	1-4
175.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
200.00	1-5	1-6	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4
225.00	1-9	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-10	3-0
250.00	2-2	2-4	2-6	2-9	2-11	3-1	3-3	3-5	3-6	3-8
275.00	2-8	2-10	3-1	3-3	3-6	3-8	3-11	4-1	4-3	4-6
300.00	3-2	3-5	3-8	3-11	4-2	4-5	4-8	4-10	5-1	5-4
325.00	3-9	4-0	4-4	4-7	4-10	5-2	5-5	5-9	6-0	6-3
350.00	4-4	4-8	5-0	5-4	5-8	6-0	6-4	6-8	6-11	7-3
375.00	4-11	5-4	5-9	6-1	6-6	6-10	7-3	7-7	8-0	8-4

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-4
175.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10
200.00	1-6	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-4	2-5
225.00	1-11	2-0	2-2	2-4	2-5	2-7	2-8	2-10	2-11	3-1
250.00	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10
275.00	2-10	3-0	3-3	3-5	3-8	3-10	4-0	4-3	4-5	4-7
300.00	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-0	5-3	5-6
325.00	3-11	4-2	4-6	4-9	5-1	5-4	5-8	5-11	6-2	6-5
350.00	4-6	4-11	5-3	5-7	5-11	6-3	6-6	6-10	7-2	7-5
375.00	5-3	5-7	6-0	6-5	6-9	7-2	7-6	7-10	8-2	8-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.23

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-11	1-11	2-0	2-1	2-2	2-2	2-3	2-4	2-5	2-5
225.00	2-5	2-6	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-1
250.00	2-11	3-1	3-2	3-3	3-4	3-5	3-7	3-8	3-9	3-10
275.00	3-7	3-8	3-10	3-11	4-1	4-2	4-3	4-5	4-6	4-7
300.00	4-3	4-5	4-6	4-8	4-10	5-0	5-1	5-3	5-4	5-6
325.00	5-0	5-2	5-4	5-6	5-8	5-10	6-0	6-2	6-4	6-5
350.00	5-9	6-0	6-2	6-4	6-7	6-9	6-11	7-2	7-4	7-6
375.00	6-7	6-10	7-1	7-4	7-6	7-9	8-0	8-2	8-5	8-7
400.00	7-6	7-10	8-1	8-4	8-7	8-10	9-1	9-4	9-7	9-9
425.00	8-6	8-10	9-1	9-5	9-8	10-0	10-3	10-6	10-9	11-1
450.00	9-6	9-11	10-3	10-6	10-10	11-2	11-6	11-9	12-1	12-5
475.00	10-8	11-0	11-5	11-9	12-1	12-5	12-10	13-2	13-6	13-10
500.00	11-9	12-2	12-7	13-0	13-5	13-10	14-2	14-7	14-11	15-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-11	2-0	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-6
225.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-2
250.00	3-0	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-11
275.00	3-8	3-9	3-11	4-0	4-2	4-3	4-4	4-6	4-7	4-8
300.00	4-4	4-6	4-8	4-9	4-11	5-1	5-2	5-4	5-5	5-7
325.00	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-5	6-7
350.00	5-11	6-2	6-4	6-6	6-8	6-11	7-1	7-3	7-5	7-7
375.00	6-10	7-0	7-3	7-6	7-8	7-11	8-1	8-4	8-6	8-9
400.00	7-9	8-0	8-3	8-6	8-9	9-0	9-3	9-6	9-8	9-11
425.00	8-9	9-0	9-4	9-7	9-11	10-2	10-5	10-8	10-11	11-3
450.00	9-10	10-2	10-6	10-9	11-1	11-5	11-8	12-0	12-3	12-7
475.00	10-11	11-4	11-8	12-0	12-4	12-8	13-0	13-4	13-8	14-0
500.00	12-1	12-6	12-11	13-4	13-8	14-1	14-5	14-10	15-2	15-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.24

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-4	3-5	3-5	3-6	3-7	3-8	3-8	3-9	3-10	3-11
275.00	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-8
300.00	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7
325.00	5-8	5-9	5-10	5-11	6-1	6-2	6-3	6-4	6-6	6-7
350.00	6-6	6-8	6-9	6-11	7-0	7-2	7-3	7-5	7-6	7-7
375.00	7-6	7-8	7-9	7-11	8-1	8-2	8-4	8-6	8-7	8-9
400.00	8-6	8-8	8-10	9-0	9-2	9-4	9-6	9-8	9-10	9-11
425.00	9-8	9-10	10-0	10-2	10-4	10-6	10-9	10-11	11-1	11-3
450.00	10-10	11-0	11-3	11-5	11-7	11-10	12-0	12-3	12-5	12-7
475.00	12-0	12-3	12-6	12-9	12-11	13-2	13-5	13-7	13-10	14-0
500.00	13-4	13-7	13-10	14-1	14-4	14-7	14-10	15-1	15-4	15-7
525.00	14-8	15-0	15-3	15-7	15-10	16-1	16-4	16-7	16-11	17-2
550.00	16-2	16-5	16-9	17-1	17-4	17-8	17-11	18-3	18-6	18-10
575.00	17-8	18-0	18-4	18-8	19-0	19-4	19-8	19-11	20-3	20-7
600.00	19-2	19-7	19-11	20-4	20-8	21-0	21-4	21-9	22-1	22-5
625.00	20-10	21-3	21-8	22-0	22-5	22-10	23-2	23-7	23-11	24-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-5	3-5	3-6	3-7	3-8	3-8	3-9	3-10	3-10	3-11
275.00	4-1	4-2	4-3	4-4	4-5	4-6	4-6	4-7	4-8	4-9
300.00	4-10	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
325.00	5-9	5-10	5-11	6-0	6-2	6-3	6-4	6-5	6-6	6-8
350.00	6-8	6-9	6-11	7-0	7-1	7-3	7-4	7-6	7-7	7-8
375.00	7-7	7-9	7-11	8-0	8-2	8-4	8-5	8-7	8-8	8-10
400.00	8-8	8-10	9-0	9-2	9-4	9-5	9-7	9-9	9-11	10-0
425.00	9-9	10-0	10-2	10-4	10-6	10-8	10-10	11-0	11-2	11-4
450.00	11-0	11-2	11-4	11-7	11-9	12-0	12-2	12-4	12-6	12-9
475.00	12-3	12-5	12-8	12-11	13-1	13-4	13-6	13-9	14-0	14-2
500.00	13-6	13-9	14-0	14-3	14-6	14-9	15-0	15-3	15-6	15-8
525.00	14-11	15-2	15-6	15-9	16-0	16-3	16-7	16-10	17-1	17-4
550.00	16-5	16-8	17-0	17-3	17-7	17-10	18-2	18-5	18-9	19-0
575.00	17-11	18-3	18-7	18-11	19-3	19-6	19-10	20-2	20-6	20-9
600.00	19-6	19-10	20-3	20-7	20-11	21-3	21-7	21-11	22-3	22-7
625.00	21-2	21-7	21-11	22-4	22-9	23-1	23-6	23-10	24-2	24-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.25

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.020	0.51	2500	0.51	2500*
0.0	0.00	0.00	0.00	0.197	0.10	2390	0.10	2400
30.0	0.00	0.00	0.00	0.197	0.12	2000	0.12	2047
40.0	0.00	0.00	0.00	0.197	0.13	1870	0.13	1927
50.0	0.00	0.00	0.00	0.197	0.14	1740	0.14	1807
60.0	0.00	0.00	0.00	0.197	0.15	1611	0.15	1685
70.0	0.00	0.00	0.00	0.197	0.17	1482	0.16	1563
80.0	0.00	0.00	0.00	0.197	0.18	1354	0.17	1440
90.0	0.00	0.00	0.00	0.197	0.20	1226	0.19	1317
100.0	0.00	0.00	0.00	0.197	0.22	1100	0.21	1194
110.0	0.00	0.00	0.00	0.197	0.25	975	0.23	1071
120.0	0.00	0.00	0.00	0.197	0.29	853	0.26	950
130.0	0.00	0.00	0.00	0.197	0.34	735	0.30	830
167.0	0.00	0.00	0.00	0.197	0.59	420	0.51	486
212.0	0.00	0.00	0.00	0.197	1.04	236	0.92	267

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.020	2.04	2500	2.04	2500*
0.0	0.00	0.00	0.00	0.197	0.48	2065	0.47	2101
30.0	0.00	0.00	0.00	0.197	0.58	1685	0.56	1751
40.0	0.00	0.00	0.00	0.197	0.63	1561	0.60	1634
50.0	0.00	0.00	0.00	0.197	0.69	1438	0.65	1517
60.0	0.00	0.00	0.00	0.197	0.75	1317	0.70	1401
70.0	0.00	0.00	0.00	0.197	0.82	1199	0.77	1286
80.0	0.00	0.00	0.00	0.197	0.91	1085	0.84	1173
90.0	0.00	0.00	0.00	0.197	1.01	976	0.93	1063
100.0	0.00	0.00	0.00	0.197	1.13	873	1.03	957
110.0	0.00	0.00	0.00	0.197	1.27	779	1.15	857
120.0	0.00	0.00	0.00	0.197	1.42	694	1.29	765
130.0	0.00	0.00	0.00	0.197	1.59	620	1.44	682
167.0	0.00	0.00	0.00	0.197	2.19	450	2.03	485
212.0	0.00	0.00	0.00	0.197	2.92	338	2.75	358

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.26

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.020	4.59	2500	4.59	2500*
0.0	0.00	0.00	0.00	0.197	1.42	1562	1.36	1628
30.0	0.00	0.00	0.00	0.197	1.80	1230	1.69	1309
40.0	0.00	0.00	0.00	0.197	1.96	1130	1.83	1208
50.0	0.00	0.00	0.00	0.197	2.14	1035	1.99	1112
60.0	0.00	0.00	0.00	0.197	2.34	948	2.17	1021
70.0	0.00	0.00	0.00	0.197	2.55	868	2.37	937
80.0	0.00	0.00	0.00	0.197	2.78	797	2.58	860
90.0	0.00	0.00	0.00	0.197	3.02	734	2.80	791
100.0	0.00	0.00	0.00	0.197	3.26	679	3.04	729
110.0	0.00	0.00	0.00	0.197	3.51	631	3.29	674
120.0	0.00	0.00	0.00	0.197	3.76	590	3.54	627
130.0	0.00	0.00	0.00	0.197	4.00	555	3.79	585
167.0	0.00	0.00	0.00	0.197	4.78	464	4.58	484
212.0	0.00	0.00	0.00	0.197	5.67	392	5.47	405

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.020	8.17	2500	8.17	2500*
0.0	0.00	0.00	0.00	0.197	3.77	1047	3.55	1112
30.0	0.00	0.00	0.00	0.197	4.62	853	4.35	906
40.0	0.00	0.00	0.00	0.197	4.92	801	4.64	850
50.0	0.00	0.00	0.00	0.197	5.22	755	4.93	799
60.0	0.00	0.00	0.00	0.197	5.52	714	5.23	753
70.0	0.00	0.00	0.00	0.197	5.82	677	5.54	712
80.0	0.00	0.00	0.00	0.197	6.12	644	5.84	676
90.0	0.00	0.00	0.00	0.197	6.41	615	6.13	643
100.0	0.00	0.00	0.00	0.197	6.70	589	6.43	613
110.0	0.00	0.00	0.00	0.197	6.98	565	6.72	587
120.0	0.00	0.00	0.00	0.197	7.26	543	7.01	563
130.0	0.00	0.00	0.00	0.197	7.51	525	7.29	541
167.0	0.00	0.00	0.00	0.197	8.38	471	8.16	484
212.0	0.00	0.00	0.00	0.197	9.36	422	9.15	431

* Design Condition

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SHEET 27 OF 241

SDG&E DISTRIBUTION SAG AND TENSION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.27

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.020	12.78	2500	12.78	2500*
0.0	0.00	0.00	0.00	0.197	8.07	764	7.72	798
30.0	0.00	0.00	0.00	0.197	9.08	679	8.74	705
40.0	0.00	0.00	0.00	0.197	9.41	655	9.07	679
50.0	0.00	0.00	0.00	0.197	9.73	634	9.40	656
60.0	0.00	0.00	0.00	0.197	10.05	614	9.73	634
70.0	0.00	0.00	0.00	0.197	10.36	595	10.05	614
80.0	0.00	0.00	0.00	0.197	10.66	578	10.36	595
90.0	0.00	0.00	0.00	0.197	10.96	563	10.67	578
100.0	0.00	0.00	0.00	0.197	11.26	548	10.98	562
110.0	0.00	0.00	0.00	0.197	11.55	534	11.28	547
120.0	0.00	0.00	0.00	0.197	11.84	521	11.57	533
130.0	0.00	0.00	0.00	0.197	12.09	510	11.86	520
167.0	0.00	0.00	0.00	0.197	13.00	475	12.77	483
212.0	0.00	0.00	0.00	0.197	14.04	440	13.82	447

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.28

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-8
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5
150.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9
200.00	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.29

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
125.00	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
150.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
175.00	0-5	0-5	0-6	0-6	0-6	0-7	0-8	0-9	0-9	0-11
200.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2
225.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5
250.00	0-10	0-11	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	1-0
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-3
225.00	0-8	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-5	1-7
250.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	2-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.30

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10
175.00	0-6	0-7	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-1
200.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6
225.00	0-11	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-9	1-10
250.00	1-1	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-1	2-3
275.00	1-4	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-7	2-9
300.00	1-7	1-8	1-10	2-0	2-2	2-4	2-7	2-10	3-1	3-3
325.00	1-10	2-0	2-2	2-4	2-7	2-9	3-0	3-3	3-7	3-10
350.00	2-2	2-4	2-6	2-9	2-11	3-3	3-6	3-10	4-2	4-6
375.00	2-5	2-8	2-10	3-1	3-5	3-8	4-0	4-5	4-9	5-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11
175.00	0-7	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2
200.00	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-4	1-5	1-7
225.00	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-8	1-10	2-0
250.00	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-5
275.00	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-9	2-11
300.00	1-8	1-10	2-0	2-2	2-4	2-7	2-9	3-0	3-3	3-6
325.00	1-11	2-1	2-4	2-6	2-9	3-0	3-3	3-7	3-10	4-1
350.00	2-3	2-5	2-8	2-11	3-2	3-6	3-9	4-1	4-5	4-9
375.00	2-7	2-10	3-1	3-4	3-8	4-0	4-4	4-9	5-1	5-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.31

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8
225.00	1-3	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-2
250.00	1-7	1-8	1-10	1-11	2-1	2-2	2-3	2-5	2-6	2-7
275.00	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-2
300.00	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9
325.00	2-8	2-10	3-1	3-3	3-5	3-8	3-10	4-1	4-3	4-5
350.00	3-1	3-4	3-7	3-9	4-0	4-3	4-6	4-8	4-11	5-2
375.00	3-7	3-10	4-1	4-4	4-7	4-10	5-2	5-5	5-8	5-11
400.00	4-1	4-4	4-8	4-11	5-3	5-6	5-10	6-2	6-5	6-9
425.00	4-7	4-11	5-3	5-7	5-11	6-3	6-7	6-11	7-3	7-7
450.00	5-2	5-6	5-10	6-3	6-7	7-0	7-5	7-9	8-2	8-6
475.00	5-9	6-2	6-6	7-0	7-5	7-10	8-3	8-8	9-1	9-6
500.00	6-4	6-10	7-3	7-9	8-2	8-8	9-1	9-7	10-1	10-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-9
225.00	1-4	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-3
250.00	1-8	1-10	1-11	2-0	2-2	2-3	2-5	2-6	2-7	2-9
275.00	2-1	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-2	3-4
300.00	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9	3-11
325.00	2-10	3-1	3-3	3-5	3-8	3-10	4-0	4-3	4-5	4-7
350.00	3-4	3-6	3-9	4-0	4-3	4-5	4-8	4-11	5-2	5-4
375.00	3-10	4-1	4-4	4-7	4-10	5-1	5-5	5-8	5-11	6-2
400.00	4-4	4-7	4-11	5-3	5-6	5-10	6-1	6-5	6-8	7-0
425.00	4-11	5-3	5-7	5-11	6-3	6-7	6-11	7-3	7-7	7-11
450.00	5-6	5-10	6-3	6-7	7-0	7-4	7-9	8-1	8-6	8-10
475.00	6-1	6-6	6-11	7-4	7-9	8-3	8-8	9-1	9-5	9-10
500.00	6-9	7-3	7-8	8-2	8-8	9-1	9-7	10-0	10-6	10-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.32

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
275.00	2-6	2-8	2-9	2-10	2-11	3-0	3-2	3-3	3-4	3-5
300.00	3-0	3-2	3-3	3-5	3-6	3-7	3-9	3-10	3-11	4-1
325.00	3-7	3-8	3-10	4-0	4-1	4-3	4-5	4-6	4-8	4-9
350.00	4-1	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-6
375.00	4-9	4-11	5-1	5-3	5-6	5-8	5-10	6-0	6-2	6-4
400.00	5-5	5-7	5-10	6-0	6-3	6-5	6-8	6-10	7-0	7-3
425.00	6-1	6-4	6-7	6-10	7-0	7-3	7-6	7-9	7-11	8-2
450.00	6-10	7-1	7-4	7-7	7-11	8-2	8-5	8-8	8-11	9-2
475.00	7-7	7-11	8-2	8-6	8-9	9-1	9-4	9-8	9-11	10-2
500.00	8-5	8-9	9-1	9-5	9-9	10-1	10-4	10-8	11-0	11-3
525.00	9-3	9-8	10-0	10-4	10-9	11-1	11-5	11-9	12-1	12-5
550.00	10-2	10-7	11-0	11-5	11-9	12-2	12-6	12-11	13-3	13-8
575.00	11-1	11-7	12-0	12-5	12-10	13-3	13-8	14-1	14-6	14-11
600.00	12-1	12-7	13-1	13-7	14-0	14-6	14-11	15-4	15-10	16-3
625.00	13-2	13-8	14-2	14-8	15-2	15-8	16-2	16-8	17-2	17-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
275.00	2-8	2-9	2-10	2-11	3-0	3-2	3-3	3-4	3-5	3-6
300.00	3-2	3-3	3-5	3-6	3-7	3-9	3-10	3-11	4-1	4-2
325.00	3-8	3-10	4-0	4-1	4-3	4-4	4-6	4-8	4-9	4-11
350.00	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-4	5-6	5-8
375.00	4-11	5-1	5-3	5-6	5-8	5-10	6-0	6-2	6-4	6-6
400.00	5-7	5-10	6-0	6-3	6-5	6-8	6-10	7-0	7-2	7-5
425.00	6-4	6-7	6-10	7-0	7-3	7-6	7-8	7-11	8-2	8-4
450.00	7-1	7-4	7-7	7-11	8-2	8-5	8-8	8-11	9-1	9-4
475.00	7-11	8-2	8-6	8-9	9-1	9-4	9-7	9-11	10-2	10-5
500.00	8-9	9-1	9-5	9-9	10-1	10-4	10-8	11-0	11-3	11-7
525.00	9-8	10-0	10-4	10-9	11-1	11-5	11-9	12-1	12-5	12-9
550.00	10-7	11-0	11-5	11-9	12-2	12-6	12-11	13-3	13-8	14-0
575.00	11-7	12-0	12-5	12-10	13-3	13-8	14-1	14-6	14-11	15-3
600.00	12-7	13-1	13-7	14-0	14-6	14-11	15-4	15-10	16-3	16-8
625.00	13-8	14-2	14-8	15-2	15-8	16-2	16-8	17-2	17-7	18-1

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SHEET 33 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.33

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.020	0.43	2984	0.42	3000*
0.0	0.00	0.00	0.00	0.197	0.08	2906	0.08	2932
30.0	0.00	0.00	0.00	0.197	0.10	2515	0.10	2590
40.0	0.00	0.00	0.00	0.197	0.10	2385	0.10	2474
50.0	0.00	0.00	0.00	0.197	0.11	2255	0.10	2356
60.0	0.00	0.00	0.00	0.197	0.12	2125	0.11	2238
70.0	0.00	0.00	0.00	0.197	0.12	1995	0.12	2117
80.0	0.00	0.00	0.00	0.197	0.13	1865	0.12	1996
90.0	0.00	0.00	0.00	0.197	0.14	1735	0.13	1874
100.0	0.00	0.00	0.00	0.197	0.15	1606	0.14	1751
110.0	0.00	0.00	0.00	0.197	0.17	1477	0.15	1627
120.0	0.00	0.00	0.00	0.197	0.18	1349	0.16	1503
130.0	0.00	0.00	0.00	0.197	0.20	1221	0.18	1378
167.0	0.00	0.00	0.00	0.197	0.31	792	0.27	918
212.0	0.00	0.00	0.00	0.197	0.59	417	0.47	519

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.020	1.70	3000	1.70	3000*
0.0	0.00	0.00	0.00	0.197	0.37	2695	0.36	2728
30.0	0.00	0.00	0.00	0.197	0.43	2308	0.41	2385
40.0	0.00	0.00	0.00	0.197	0.45	2180	0.43	2268
50.0	0.00	0.00	0.00	0.197	0.48	2052	0.46	2151
60.0	0.00	0.00	0.00	0.197	0.51	1925	0.48	2033
70.0	0.00	0.00	0.00	0.197	0.55	1798	0.51	1914
80.0	0.00	0.00	0.00	0.197	0.59	1673	0.55	1795
90.0	0.00	0.00	0.00	0.197	0.64	1548	0.59	1676
100.0	0.00	0.00	0.00	0.197	0.69	1426	0.63	1557
110.0	0.00	0.00	0.00	0.197	0.75	1305	0.69	1438
120.0	0.00	0.00	0.00	0.197	0.83	1188	0.75	1320
130.0	0.00	0.00	0.00	0.197	0.92	1074	0.82	1205
167.0	0.00	0.00	0.00	0.197	1.33	741	1.21	813
212.0	0.00	0.00	0.00	0.197	2.01	490	1.82	541

* Design Condition

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SHEET 34 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.34

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.020	3.83	3000	3.83	3000*
0.0	0.00	0.00	0.00	0.197	0.95	2325	0.93	2391
30.0	0.00	0.00	0.00	0.197	1.14	1951	1.08	2051
40.0	0.00	0.00	0.00	0.197	1.21	1829	1.14	1937
50.0	0.00	0.00	0.00	0.197	1.30	1709	1.22	1823
60.0	0.00	0.00	0.00	0.197	1.39	1591	1.30	1710
70.0	0.00	0.00	0.00	0.197	1.50	1476	1.39	1598
80.0	0.00	0.00	0.00	0.197	1.62	1364	1.49	1487
90.0	0.00	0.00	0.00	0.197	1.76	1257	1.61	1379
100.0	0.00	0.00	0.00	0.197	1.92	1154	1.74	1274
110.0	0.00	0.00	0.00	0.197	2.10	1058	1.89	1172
120.0	0.00	0.00	0.00	0.197	2.29	969	2.06	1076
130.0	0.00	0.00	0.00	0.197	2.50	887	2.25	987
167.0	0.00	0.00	0.00	0.197	3.27	679	3.05	727
212.0	0.00	0.00	0.00	0.197	4.24	523	3.99	555

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.020	6.81	3000	6.81	3000*
0.0	0.00	0.00	0.00	0.197	2.14	1846	2.03	1941
30.0	0.00	0.00	0.00	0.197	2.60	1515	2.43	1625
40.0	0.00	0.00	0.00	0.197	2.79	1412	2.59	1523
50.0	0.00	0.00	0.00	0.197	3.00	1314	2.77	1425
60.0	0.00	0.00	0.00	0.197	3.22	1223	2.96	1330
70.0	0.00	0.00	0.00	0.197	3.47	1137	3.18	1240
80.0	0.00	0.00	0.00	0.197	3.73	1058	3.41	1155
90.0	0.00	0.00	0.00	0.197	4.00	985	3.66	1076
100.0	0.00	0.00	0.00	0.197	4.28	920	3.93	1003
110.0	0.00	0.00	0.00	0.197	4.58	861	4.21	936
120.0	0.00	0.00	0.00	0.197	4.88	808	4.50	875
130.0	0.00	0.00	0.00	0.197	5.17	763	4.80	821
167.0	0.00	0.00	0.00	0.197	6.14	642	5.87	672
212.0	0.00	0.00	0.00	0.197	7.29	542	7.00	563

* Design Condition

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SHEET 35 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.35

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	1.020	10.64	3000	10.64	3000*
0.0	0.00	0.00	0.00	0.197	4.53	1360	4.23	1457
30.0	0.00	0.00	0.00	0.197	5.45	1131	5.06	1218
40.0	0.00	0.00	0.00	0.197	5.78	1066	5.37	1148
50.0	0.00	0.00	0.00	0.197	6.12	1007	5.69	1083
60.0	0.00	0.00	0.00	0.197	6.47	953	6.02	1023
70.0	0.00	0.00	0.00	0.197	6.81	904	6.36	968
80.0	0.00	0.00	0.00	0.197	7.16	860	6.71	918
90.0	0.00	0.00	0.00	0.197	7.51	820	7.06	873
100.0	0.00	0.00	0.00	0.197	7.86	784	7.41	832
110.0	0.00	0.00	0.00	0.197	8.21	751	7.76	794
120.0	0.00	0.00	0.00	0.197	8.55	721	8.11	760
130.0	0.00	0.00	0.00	0.197	8.85	696	8.45	729
167.0	0.00	0.00	0.00	0.197	9.92	621	9.61	641
212.0	0.00	0.00	0.00	0.197	11.16	553	10.85	568

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.36

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
150.00	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
150.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
175.00	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6
200.00	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.37

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
150.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
175.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6
200.00	0-5	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8
225.00	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-10	0-10
250.00	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9
225.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11
250.00	0-8	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.38

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8
200.00	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10
225.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1
250.00	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-3	1-4
275.00	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-6	1-7
300.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-11
325.00	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-1	2-3
350.00	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-2	2-4	2-7
375.00	1-7	1-8	1-9	1-11	2-0	2-2	2-4	2-6	2-9	2-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9
200.00	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11
225.00	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2
250.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
275.00	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9
300.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-11	2-1
325.00	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-1	2-3	2-6
350.00	1-5	1-7	1-8	1-9	1-11	2-1	2-3	2-5	2-7	2-10
375.00	1-8	1-9	1-11	2-0	2-2	2-4	2-6	2-9	3-0	3-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1
225.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4
250.00	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-8
275.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	2-0
300.00	1-3	1-4	1-5	1-7	1-8	1-9	1-11	2-1	2-3	2-4
325.00	1-6	1-7	1-8	1-10	1-11	2-1	2-3	2-5	2-7	2-9
350.00	1-9	1-10	2-0	2-1	2-3	2-5	2-7	2-10	3-0	3-3
375.00	2-0	2-2	2-3	2-5	2-7	2-10	3-0	3-3	3-5	3-8
400.00	2-3	2-5	2-7	2-9	3-0	3-2	3-5	3-8	3-11	4-3
425.00	2-7	2-9	2-11	3-1	3-4	3-7	3-10	4-2	4-5	4-9
450.00	2-11	3-1	3-3	3-6	3-9	4-0	4-4	4-8	5-0	5-4
475.00	3-3	3-5	3-8	3-11	4-2	4-6	4-10	5-2	5-7	5-11
500.00	3-7	3-9	4-1	4-4	4-8	5-0	5-4	5-9	6-2	6-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2
225.00	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5
250.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-9
275.00	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-0	2-2
300.00	1-4	1-6	1-7	1-8	1-10	1-11	2-1	2-3	2-5	2-7
325.00	1-7	1-9	1-10	2-0	2-2	2-3	2-6	2-8	2-10	3-0
350.00	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-1	3-3	3-6
375.00	2-2	2-3	2-5	2-8	2-10	3-1	3-3	3-6	3-9	4-0
400.00	2-5	2-7	2-9	3-0	3-3	3-6	3-9	4-0	4-3	4-7
425.00	2-9	2-11	3-2	3-5	3-8	3-11	4-2	4-6	4-10	5-2
450.00	3-1	3-4	3-6	3-10	4-1	4-5	4-9	5-1	5-5	5-10
475.00	3-5	3-8	3-11	4-3	4-7	4-11	5-3	5-8	6-1	6-5
500.00	3-10	4-1	4-4	4-8	5-0	5-5	5-10	6-3	6-8	7-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.40

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
275.00	1-5	1-6	1-7	1-9	1-10	1-11	2-0	2-2	2-3	2-4
300.00	1-9	1-10	1-11	2-1	2-2	2-3	2-5	2-6	2-8	2-10
325.00	2-0	2-2	2-3	2-5	2-7	2-8	2-10	3-0	3-2	3-3
350.00	2-4	2-6	2-8	2-9	2-11	3-1	3-3	3-5	3-8	3-10
375.00	2-8	2-10	3-0	3-2	3-5	3-7	3-9	4-0	4-2	4-4
400.00	3-1	3-3	3-5	3-8	3-10	4-1	4-4	4-6	4-9	5-0
425.00	3-5	3-8	3-11	4-1	4-4	4-7	4-10	5-1	5-4	5-7
450.00	3-10	4-1	4-4	4-7	4-11	5-2	5-5	5-9	6-0	6-3
475.00	4-4	4-7	4-10	5-2	5-5	5-9	6-1	6-4	6-8	7-0
500.00	4-9	5-1	5-4	5-8	6-0	6-4	6-8	7-1	7-5	7-9
525.00	5-3	5-7	5-11	6-3	6-8	7-0	7-5	7-9	8-2	8-7
550.00	5-9	6-1	6-6	6-11	7-3	7-8	8-1	8-6	9-0	9-5
575.00	6-4	6-8	7-1	7-6	8-0	8-5	8-10	9-4	9-10	10-3
600.00	6-10	7-3	7-9	8-2	8-8	9-2	9-8	10-2	10-8	11-2
625.00	7-5	7-11	8-5	8-11	9-5	9-11	10-6	11-0	11-7	12-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-1
275.00	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-5	2-6
300.00	1-10	2-0	2-1	2-2	2-4	2-5	2-7	2-8	2-10	2-11
325.00	2-2	2-4	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-6
350.00	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10	4-0
375.00	2-11	3-1	3-3	3-5	3-8	3-10	4-0	4-3	4-5	4-7
400.00	3-3	3-6	3-8	3-11	4-2	4-4	4-7	4-10	5-0	5-3
425.00	3-8	3-11	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-11
450.00	4-2	4-5	4-8	4-11	5-3	5-6	5-10	6-1	6-4	6-8
475.00	4-8	4-11	5-3	5-6	5-10	6-2	6-6	6-9	7-1	7-5
500.00	5-2	5-5	5-9	6-1	6-6	6-10	7-2	7-6	7-10	8-2
525.00	5-8	6-0	6-4	6-9	7-2	7-6	7-11	8-3	8-8	9-1
550.00	6-2	6-7	7-0	7-5	7-10	8-3	8-8	9-1	9-6	9-11
575.00	6-9	7-2	7-8	8-1	8-7	9-0	9-6	9-11	10-5	10-10
600.00	7-5	7-10	8-4	8-10	9-4	9-10	10-4	10-10	11-4	11-10
625.00	8-0	8-6	9-0	9-7	10-1	10-8	11-2	11-9	12-3	12-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.41

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.02	0.37	3479	0.36	3500*
0	0	0	0	0.197	0.07	3422	0.07	3452
30	0	0	0	0.197	0.08	3030	0.08	3124
40	0	0	0	0.197	0.08	2900	0.08	3012
50	0	0	0	0.197	0.09	2769	0.08	2898
60	0	0	0	0.197	0.09	2639	0.09	2783
70	0	0	0	0.197	0.1	2509	0.09	2667
80	0	0	0	0.197	0.1	2378	0.1	2549
90	0	0	0	0.197	0.11	2248	0.1	2430
100	0	0	0	0.197	0.12	2118	0.11	2310
110	0	0	0	0.197	0.12	1988	0.11	2189
120	0	0	0	0.197	0.13	1859	0.12	2066
130	0	0	0	0.197	0.14	1729	0.13	1943
167	0	0	0	0.197	0.2	1253	0.17	1479
212	0	0	0	0.197	0.31	799	0.26	949

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.02	1.46	3499	1.46	3500*
0	0	0	0	0.197	0.3	3275	0.3	3306
30	0	0	0	0.197	0.34	2885	0.33	2976
40	0	0	0	0.197	0.36	2756	0.34	2863
50	0	0	0	0.197	0.38	2626	0.36	2749
60	0	0	0	0.197	0.39	2497	0.37	2634
70	0	0	0	0.197	0.42	2368	0.39	2517
80	0	0	0	0.197	0.44	2240	0.41	2400
90	0	0	0	0.197	0.47	2112	0.43	2281
100	0	0	0	0.197	0.5	1984	0.46	2162
110	0	0	0	0.197	0.53	1857	0.48	2042
120	0	0	0	0.197	0.57	1731	0.51	1921
130	0	0	0	0.197	0.61	1606	0.55	1799
167	0	0	0	0.197	0.85	1162	0.73	1352
212	0	0	0	0.197	1.27	776	1.11	890

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.42

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.02	3.28	3500	3.28	3500*
0	0	0	0	0.197	0.74	2998	0.72	3063
30	0	0	0	0.197	0.85	2615	0.81	2730
40	0	0	0	0.197	0.89	2487	0.85	2617
50	0	0	0	0.197	0.94	2361	0.89	2503
60	0	0	0	0.197	0.99	2235	0.93	2388
70	0	0	0	0.197	1.05	2110	0.98	2273
80	0	0	0	0.197	1.12	1987	1.03	2157
90	0	0	0	0.197	1.19	1864	1.09	2041
100	0	0	0	0.197	1.27	1743	1.15	1924
110	0	0	0	0.197	1.36	1625	1.23	1808
120	0	0	0	0.197	1.47	1509	1.31	1693
130	0	0	0	0.197	1.59	1396	1.4	1579
167	0	0	0	0.197	2.12	1048	1.88	1179
212	0	0	0	0.197	2.94	755	2.68	828

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.02	5.83	3500	5.83	3500*
0	0	0	0	0.197	1.5	2622	1.45	2725
30	0	0	0	0.197	1.75	2252	1.65	2394
40	0	0	0	0.197	1.85	2131	1.73	2282
50	0	0	0	0.197	1.96	2012	1.82	2171
60	0	0	0	0.197	2.08	1895	1.91	2060
70	0	0	0	0.197	2.21	1780	2.02	1949
80	0	0	0	0.197	2.36	1668	2.14	1840
90	0	0	0	0.197	2.53	1560	2.28	1731
100	0	0	0	0.197	2.71	1455	2.42	1625
110	0	0	0	0.197	2.91	1355	2.59	1521
120	0	0	0	0.197	3.13	1261	2.77	1421
130	0	0	0	0.197	3.36	1173	2.98	1325
167	0	0	0	0.197	4.24	929	3.88	1015
212	0	0	0	0.197	5.4	730	5.05	780

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.43

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.02	9.12	3500	9.12	3500*
0	0	0	0	0.197	2.83	2172	2.67	2306
30	0	0	0	0.197	3.35	1837	3.09	1991
40	0	0	0	0.197	3.56	1731	3.26	1888
50	0	0	0	0.197	3.78	1629	3.45	1786
60	0	0	0	0.197	4.02	1531	3.65	1688
70	0	0	0	0.197	4.28	1439	3.87	1592
80	0	0	0	0.197	4.56	1351	4.11	1499
90	0	0	0	0.197	4.85	1270	4.36	1411
100	0	0	0	0.197	5.16	1194	4.64	1327
110	0	0	0	0.197	5.48	1124	4.93	1248
120	0	0	0	0.197	5.81	1059	5.24	1175
130	0	0	0	0.197	6.14	1002	5.57	1106
167	0	0	0	0.197	7.27	848	6.84	900
212	0	0	0	0.197	8.64	714	8.23	749

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.44

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.45

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6
225.00	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7
250.00	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4
175.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6
225.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8
250.00	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.46

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-7
225.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8
250.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10
275.00	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	1-0	1-0
300.00	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-3
325.00	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-5
350.00	1-1	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-8
375.00	1-3	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-10	1-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7
225.00	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	0-11
275.00	0-8	0-9	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-2
300.00	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4
325.00	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7
350.00	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-9	1-10
375.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	2-0	2-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.47

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8
225.00	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10
250.00	0-7	0-8	0-8	0-9	0-9	0-9	0-10	0-11	0-11	1-0
275.00	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-2	1-3
300.00	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-5
325.00	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-9
350.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	2-0
375.00	1-5	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-2	2-3
400.00	1-7	1-8	1-9	1-10	1-11	2-0	2-2	2-3	2-5	2-7
425.00	1-9	1-10	1-11	2-1	2-2	2-3	2-5	2-7	2-9	2-11
450.00	2-0	2-1	2-2	2-4	2-5	2-7	2-9	2-11	3-1	3-3
475.00	2-3	2-4	2-5	2-7	2-8	2-10	3-0	3-3	3-5	3-8
500.00	2-5	2-7	2-8	2-10	3-0	3-2	3-4	3-7	3-9	4-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
225.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11
250.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-2
275.00	0-9	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-4
300.00	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-8
325.00	1-1	1-2	1-3	1-4	1-4	1-6	1-7	1-8	1-9	1-11
350.00	1-3	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-1	2-3
375.00	1-6	1-6	1-7	1-9	1-10	1-11	2-1	2-3	2-5	2-7
400.00	1-8	1-9	1-10	2-0	2-1	2-3	2-4	2-6	2-8	2-11
425.00	1-10	2-0	2-1	2-3	2-4	2-6	2-8	2-10	3-1	3-3
450.00	2-1	2-3	2-4	2-6	2-8	2-10	3-0	3-2	3-5	3-8
475.00	2-4	2-6	2-7	2-9	2-11	3-1	3-4	3-7	3-10	4-1
500.00	2-7	2-9	2-11	3-1	3-3	3-6	3-8	3-11	4-3	4-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.48

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3
275.00	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6
300.00	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
325.00	1-3	1-4	1-5	1-5	1-6	1-8	1-9	1-10	2-0	2-1
350.00	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-2	2-3	2-5
375.00	1-8	1-9	1-10	1-11	2-1	2-2	2-4	2-5	2-7	2-9
400.00	1-11	2-0	2-1	2-2	2-4	2-6	2-8	2-10	3-0	3-2
425.00	2-1	2-3	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-7
450.00	2-5	2-6	2-8	2-10	2-11	3-2	3-4	3-6	3-9	4-0
475.00	2-8	2-9	2-11	3-1	3-4	3-6	3-8	3-11	4-2	4-5
500.00	2-11	3-1	3-3	3-5	3-8	3-10	4-1	4-4	4-8	4-11
525.00	3-3	3-5	3-7	3-10	4-0	4-3	4-6	4-10	5-1	5-5
550.00	3-7	3-9	3-11	4-2	4-5	4-8	5-0	5-3	5-7	6-0
575.00	3-11	4-1	4-4	4-7	4-10	5-1	5-5	5-9	6-2	6-6
600.00	4-3	4-5	4-8	5-0	5-3	5-7	5-11	6-3	6-8	7-1
625.00	4-7	4-10	5-1	5-5	5-8	6-1	6-5	6-10	7-3	7-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-3	1-4
275.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
300.00	1-2	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-10	2-0
325.00	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-1	2-2	2-4
350.00	1-7	1-8	1-9	1-10	2-0	2-1	2-3	2-5	2-6	2-8
375.00	1-9	1-11	2-0	2-2	2-3	2-5	2-7	2-9	2-11	3-1
400.00	2-0	2-2	2-3	2-5	2-7	2-9	2-11	3-1	3-4	3-6
425.00	2-3	2-5	2-7	2-9	2-11	3-1	3-4	3-6	3-9	4-0
450.00	2-7	2-9	2-11	3-1	3-3	3-6	3-8	3-11	4-2	4-5
475.00	2-10	3-0	3-3	3-5	3-8	3-10	4-1	4-5	4-8	4-11
500.00	3-2	3-4	3-7	3-9	4-0	4-3	4-7	4-10	5-2	5-6
525.00	3-6	3-8	3-11	4-2	4-5	4-9	5-0	5-4	5-8	6-1
550.00	3-10	4-1	4-4	4-7	4-10	5-2	5-6	5-10	6-3	6-8
575.00	4-2	4-5	4-8	5-0	5-4	5-8	6-0	6-5	6-10	7-3
600.00	4-7	4-10	5-1	5-5	5-9	6-2	6-7	7-0	7-5	7-11
625.00	4-11	5-3	5-7	5-11	6-3	6-8	7-1	7-7	8-1	8-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.49

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.063	3.85	1000	3.85	1000*
0.0	0.00	0.00	0.00	0.197	3.53	70	3.53	70
30.0	0.00	0.00	0.00	0.197	3.69	67	3.67	67
40.0	0.00	0.00	0.00	0.197	3.73	66	3.71	67
50.0	0.00	0.00	0.00	0.197	3.77	66	3.75	66
60.0	0.00	0.00	0.00	0.197	3.81	65	3.79	65
70.0	0.00	0.00	0.00	0.197	3.85	64	3.83	65
80.0	0.00	0.00	0.00	0.197	3.88	64	3.86	64
90.0	0.00	0.00	0.00	0.197	3.92	63	3.90	64
100.0	0.00	0.00	0.00	0.197	3.96	63	3.93	63
110.0	0.00	0.00	0.00	0.197	3.99	62	3.97	62
120.0	0.00	0.00	0.00	0.197	4.02	62	4.00	62
130.0	0.00	0.00	0.00	0.197	4.06	61	4.04	61
167.0	0.00	0.00	0.00	0.197	4.18	59	4.16	60
212.0	0.00	0.00	0.00	0.197	4.32	57	4.30	58

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.063	15.69	1000	15.69	1000*
0.0	0.00	0.00	0.00	0.197	15.37	66	15.37	66
30.0	0.00	0.00	0.00	0.197	15.53	65	15.51	65
40.0	0.00	0.00	0.00	0.197	15.57	65	15.55	65
50.0	0.00	0.00	0.00	0.197	15.61	65	15.59	65
60.0	0.00	0.00	0.00	0.197	15.65	64	15.63	65
70.0	0.00	0.00	0.00	0.197	15.69	64	15.67	64
80.0	0.00	0.00	0.00	0.197	15.72	64	15.71	64
90.0	0.00	0.00	0.00	0.197	15.76	64	15.74	64
100.0	0.00	0.00	0.00	0.197	15.80	64	15.78	64
110.0	0.00	0.00	0.00	0.197	15.83	64	15.81	64
120.0	0.00	0.00	0.00	0.197	15.87	64	15.85	64
130.0	0.00	0.00	0.00	0.197	15.90	64	15.88	64
167.0	0.00	0.00	0.00	0.197	16.03	63	16.01	63
212.0	0.00	0.00	0.00	0.197	16.19	62	16.16	63

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC DESIGN TENSION 1000 LBS

OH815.50

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.063	36.51	1000	36.51	1000*
0.0	0.00	0.00	0.00	0.197	36.19	65	36.19	65
30.0	0.00	0.00	0.00	0.197	36.35	65	36.33	65
40.0	0.00	0.00	0.00	0.197	36.39	65	36.37	65
50.0	0.00	0.00	0.00	0.197	36.43	64	36.41	64
60.0	0.00	0.00	0.00	0.197	36.46	64	36.45	64
70.0	0.00	0.00	0.00	0.197	36.50	64	36.49	64
80.0	0.00	0.00	0.00	0.197	36.54	64	36.52	64
90.0	0.00	0.00	0.00	0.197	36.58	64	36.56	64
100.0	0.00	0.00	0.00	0.197	36.62	64	36.59	64
110.0	0.00	0.00	0.00	0.197	36.65	64	36.63	64
120.0	0.00	0.00	0.00	0.197	36.69	64	36.66	64
130.0	0.00	0.00	0.00	0.197	36.72	64	36.70	64
167.0	0.00	0.00	0.00	0.197	36.85	64	36.83	64
212.0	0.00	0.00	0.00	0.197	37.01	64	36.98	64

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.063	68.51	1000	68.51	1000*
0.0	0.00	0.00	0.00	0.197	68.19	65	68.19	65
30.0	0.00	0.00	0.00	0.197	68.35	64	68.33	64
40.0	0.00	0.00	0.00	0.197	68.39	64	68.37	64
50.0	0.00	0.00	0.00	0.197	68.43	64	68.41	64
60.0	0.00	0.00	0.00	0.197	68.47	64	68.45	64
70.0	0.00	0.00	0.00	0.197	68.50	64	68.49	64
80.0	0.00	0.00	0.00	0.197	68.54	64	68.52	64
90.0	0.00	0.00	0.00	0.197	68.58	64	68.56	64
100.0	0.00	0.00	0.00	0.197	68.62	64	68.59	64
110.0	0.00	0.00	0.00	0.197	68.65	64	68.63	64
120.0	0.00	0.00	0.00	0.197	68.68	64	68.66	64
130.0	0.00	0.00	0.00	0.197	68.72	64	68.70	64
167.0	0.00	0.00	0.00	0.197	68.85	64	68.82	64
212.0	0.00	0.00	0.00	0.197	69.00	64	68.98	64

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.51

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.063	116.97	1000	116.97	1000*
0.0	0.00	0.00	0.00	0.197	116.66	64	116.66	64
30.0	0.00	0.00	0.00	0.197	116.81	64	116.80	64
40.0	0.00	0.00	0.00	0.197	116.85	64	116.83	64
50.0	0.00	0.00	0.00	0.197	116.89	64	116.87	64
60.0	0.00	0.00	0.00	0.197	116.93	64	116.91	64
70.0	0.00	0.00	0.00	0.197	116.96	64	116.95	64
80.0	0.00	0.00	0.00	0.197	117.00	64	116.98	64
90.0	0.00	0.00	0.00	0.197	117.04	64	117.02	64
100.0	0.00	0.00	0.00	0.197	117.07	64	117.05	64
110.0	0.00	0.00	0.00	0.197	117.11	64	117.09	64
120.0	0.00	0.00	0.00	0.197	117.14	64	117.12	64
130.0	0.00	0.00	0.00	0.197	117.18	64	117.15	64
167.0	0.00	0.00	0.00	0.197	117.30	64	117.28	64
212.0	0.00	0.00	0.00	0.197	117.46	64	117.43	64

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-0	2-1	2-1	2-1	2-2	2-2	2-2	2-2	2-3	2-3
100.00	3-8	3-8	3-9	3-9	3-9	3-10	3-10	3-11	3-11	4-0
125.00	5-8	5-9	5-10	5-10	5-11	6-0	6-1	6-1	6-2	6-2
150.00	8-2	8-3	8-4	8-6	8-7	8-8	8-9	8-10	8-10	8-11
175.00	11-2	11-3	11-5	11-6	11-8	11-9	11-11	12-0	12-1	12-2
200.00	14-7	14-9	14-11	15-1	15-3	15-5	15-7	15-8	15-10	16-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-1	2-1	2-1	2-1	2-2	2-2	2-2	2-2	2-3	2-3
100.00	3-8	3-8	3-9	3-9	3-10	3-10	3-11	3-11	3-11	4-0
125.00	5-8	5-9	5-10	5-11	5-11	6-0	6-1	6-2	6-2	6-3
150.00	8-2	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-11	9-0
175.00	11-2	11-4	11-6	11-7	11-8	11-10	11-11	12-1	12-2	12-3
200.00	14-8	14-10	15-0	15-2	15-4	15-6	15-8	15-9	15-11	16-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.53

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-10	3-10	3-10	3-10	3-11	3-11	3-11	3-11	3-11	3-11
125.00	6-0	6-0	6-1	6-1	6-1	6-1	6-1	6-1	6-2	6-2
150.00	8-8	8-8	8-9	8-9	8-9	8-9	8-10	8-10	8-10	8-10
175.00	11-10	11-10	11-11	11-11	11-11	12-0	12-0	12-0	12-1	12-1
200.00	15-6	15-6	15-7	15-7	15-8	15-8	15-8	15-9	15-9	15-10
225.00	19-7	19-8	19-9	19-9	19-10	19-11	19-11	20-0	20-0	20-1
250.00	24-3	24-4	24-5	24-6	24-6	24-7	24-8	24-8	24-9	24-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-10	3-10	3-10	3-11	3-11	3-11	3-11	3-11	3-11	3-11
125.00	6-0	6-0	6-1	6-1	6-1	6-1	6-1	6-2	6-2	6-2
150.00	8-8	8-8	8-9	8-9	8-9	8-10	8-10	8-10	8-10	8-10
175.00	11-10	11-10	11-11	11-11	11-11	12-0	12-0	12-1	12-1	12-1
200.00	15-6	15-6	15-7	15-7	15-8	15-8	15-9	15-9	15-10	15-10
225.00	19-8	19-8	19-9	19-10	19-10	19-11	19-11	20-0	20-0	20-1
250.00	24-3	24-5	24-5	24-6	24-7	24-7	24-8	24-9	24-10	24-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.54

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	8-11	8-11	9-0	9-0	9-0	9-0	9-0	9-0	9-0	9-0
175.00	12-2	12-3	12-3	12-3	12-3	12-3	12-3	12-3	12-4	12-4
200.00	16-0	16-0	16-0	16-0	16-0	16-1	16-1	16-1	16-1	16-1
225.00	20-3	20-3	20-3	20-4	20-4	20-4	20-4	20-5	20-5	20-5
250.00	25-1	25-1	25-1	25-2	25-2	25-2	25-3	25-3	25-3	25-3
275.00	30-5	30-5	30-6	30-6	30-6	30-7	30-7	30-8	30-8	30-8
300.00	36-3	36-4	36-4	36-5	36-5	36-6	36-6	36-7	36-7	36-8
325.00	42-9	42-9	42-10	42-10	42-11	43-0	43-0	43-1	43-1	43-2
350.00	49-9	49-9	49-10	49-11	49-11	50-0	50-1	50-1	50-2	50-2
375.00	57-4	57-4	57-5	57-6	57-7	57-7	57-8	57-9	57-9	57-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	8-11	9-0	9-0	9-0	9-0	9-0	9-0	9-0	9-0	9-0
175.00	12-2	12-3	12-3	12-3	12-3	12-3	12-3	12-4	12-4	12-4
200.00	16-0	16-0	16-0	16-0	16-0	16-1	16-1	16-1	16-1	16-1
225.00	20-3	20-3	20-4	20-4	20-4	20-4	20-5	20-5	20-5	20-5
250.00	25-1	25-1	25-1	25-2	25-2	25-2	25-3	25-3	25-3	25-4
275.00	30-5	30-5	30-6	30-6	30-7	30-7	30-7	30-8	30-8	30-8
300.00	36-4	36-4	36-5	36-5	36-6	36-6	36-6	36-7	36-7	36-8
325.00	42-9	42-10	42-10	42-11	42-11	43-0	43-0	43-1	43-1	43-2
350.00	49-9	49-10	49-10	49-11	50-0	50-0	50-1	50-2	50-2	50-3
375.00	57-4	57-5	57-6	57-6	57-7	57-8	57-8	57-9	57-10	57-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.55

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	16-7	16-8	16-8	16-8	16-8	16-8	16-8	16-8	16-8	16-8
225.00	21-1	21-1	21-1	21-1	21-2	21-2	21-2	21-2	21-2	21-2
250.00	26-1	26-1	26-2	26-2	26-2	26-2	26-2	26-2	26-2	26-3
275.00	31-8	31-8	31-8	31-9	31-9	31-9	31-9	31-9	31-10	31-10
300.00	37-10	37-10	37-10	37-11	37-11	37-11	37-11	37-11	38-0	38-0
325.00	44-6	44-7	44-7	44-7	44-8	44-8	44-8	44-8	44-9	44-9
350.00	51-10	51-11	51-11	51-11	52-0	52-0	52-0	52-1	52-1	52-1
375.00	59-9	59-10	59-10	59-10	59-11	59-11	60-0	60-0	60-0	60-1
400.00	68-4	68-4	68-4	68-5	68-5	68-6	68-6	68-7	68-7	68-8
425.00	77-5	77-6	77-7	77-7	77-8	77-8	77-9	77-9	77-10	77-10
450.00	87-3	87-4	87-4	87-5	87-6	87-6	87-7	87-7	87-8	87-8
475.00	97-9	97-9	97-10	97-11	98-0	98-0	98-1	98-1	98-2	98-3
500.00	108-11	108-11	109-0	109-1	109-2	109-2	109-3	109-4	109-5	109-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	16-7	16-8	16-8	16-8	16-8	16-8	16-8	16-8	16-8	16-8
225.00	21-1	21-1	21-1	21-1	21-2	21-2	21-2	21-2	21-2	21-2
250.00	26-1	26-1	26-2	26-2	26-2	26-2	26-2	26-2	26-3	26-3
275.00	31-8	31-8	31-9	31-9	31-9	31-9	31-9	31-10	31-10	31-10
300.00	37-10	37-10	37-10	37-11	37-11	37-11	37-11	38-0	38-0	38-0
325.00	44-6	44-7	44-7	44-7	44-8	44-8	44-8	44-9	44-9	44-9
350.00	51-10	51-11	51-11	51-11	52-0	52-0	52-0	52-1	52-1	52-1
375.00	59-9	59-10	59-10	59-11	59-11	59-11	60-0	60-0	60-1	60-1
400.00	68-4	68-4	68-5	68-5	68-6	68-6	68-6	68-7	68-7	68-8
425.00	77-5	77-6	77-7	77-7	77-8	77-8	77-9	77-9	77-10	77-10
450.00	87-3	87-4	87-5	87-5	87-6	87-6	87-7	87-8	87-8	87-9
475.00	97-9	97-10	97-10	97-11	98-0	98-0	98-1	98-2	98-2	98-3
500.00	108-11	109-0	109-0	109-1	109-2	109-3	109-3	109-4	109-5	109-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.56

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	27-10	27-10	27-10	27-10	27-10	27-10	27-11	27-11	27-11	27-11
275.00	33-9	33-10	33-10	33-10	33-10	33-10	33-10	33-10	33-10	33-11
300.00	40-4	40-4	40-5	40-5	40-5	40-5	40-5	40-5	40-5	40-6
325.00	47-7	47-7	47-7	47-7	47-7	47-8	47-8	47-8	47-8	47-8
350.00	55-5	55-5	55-5	55-5	55-6	55-6	55-6	55-6	55-6	55-6
375.00	63-11	63-11	63-11	63-11	64-0	64-0	64-0	64-0	64-0	64-1
400.00	73-0	73-1	73-1	73-1	73-2	73-2	73-2	73-2	73-3	73-3
425.00	82-11	82-11	82-11	83-0	83-0	83-0	83-1	83-1	83-1	83-1
450.00	93-5	93-6	93-6	93-6	93-7	93-7	93-7	93-8	93-8	93-8
475.00	104-9	104-9	104-10	104-10	104-10	104-11	104-11	104-11	105-0	105-0
500.00	116-9	116-10	116-10	116-10	116-11	116-11	117-0	117-0	117-1	117-1
525.00	129-7	129-7	129-8	129-8	129-9	129-9	129-10	129-10	129-11	129-11
550.00	143-2	143-3	143-3	143-4	143-4	143-5	143-5	143-6	143-6	143-7
575.00	157-7	157-8	157-8	157-9	157-10	157-10	157-11	157-11	158-0	158-1
600.00	172-10	172-11	173-0	173-0	173-1	173-2	173-3	173-3	173-4	173-4
625.00	189-0	189-1	189-2	189-3	189-3	189-4	189-5	189-6	189-6	189-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	27-10	27-10	27-10	27-10	27-10	27-11	27-11	27-11	27-11	27-11
275.00	33-9	33-10	33-10	33-10	33-10	33-10	33-10	33-10	33-10	33-11
300.00	40-4	40-5	40-5	40-5	40-5	40-5	40-5	40-5	40-6	40-6
325.00	47-7	47-7	47-7	47-7	47-7	47-8	47-8	47-8	47-8	47-8
350.00	55-5	55-5	55-5	55-5	55-6	55-6	55-6	55-6	55-6	55-7
375.00	63-11	63-11	63-11	63-11	64-0	64-0	64-0	64-0	64-1	64-1
400.00	73-0	73-1	73-1	73-1	73-2	73-2	73-2	73-3	73-3	73-3
425.00	82-11	82-11	82-11	83-0	83-0	83-0	83-1	83-1	83-1	83-2
450.00	93-5	93-6	93-6	93-7	93-7	93-7	93-8	93-8	93-8	93-9
475.00	104-9	104-9	104-10	104-10	104-11	104-11	104-11	105-0	105-0	105-0
500.00	116-9	116-10	116-10	116-11	116-11	117-0	117-0	117-0	117-1	117-1
525.00	129-7	129-7	129-8	129-9	129-9	129-10	129-10	129-11	129-11	129-11
550.00	143-2	143-3	143-3	143-4	143-4	143-5	143-6	143-6	143-7	143-7
575.00	157-7	157-8	157-9	157-9	157-10	157-10	157-11	158-0	158-0	158-1
600.00	172-10	172-11	173-0	173-1	173-1	173-2	173-3	173-4	173-4	173-5
625.00	189-0	189-1	189-2	189-3	189-4	189-4	189-5	189-6	189-7	189-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.57

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.063	2.56	1500	2.56	1500*
0.0	0.00	0.00	0.00	0.197	1.86	133	1.80	137
30.0	0.00	0.00	0.00	0.197	2.08	119	2.03	122
40.0	0.00	0.00	0.00	0.197	2.14	115	2.10	118
50.0	0.00	0.00	0.00	0.197	2.21	112	2.17	114
60.0	0.00	0.00	0.00	0.197	2.27	108	2.23	110
70.0	0.00	0.00	0.00	0.197	2.34	106	2.30	107
80.0	0.00	0.00	0.00	0.197	2.40	103	2.36	105
90.0	0.00	0.00	0.00	0.197	2.46	100	2.41	102
100.0	0.00	0.00	0.00	0.197	2.51	98	2.47	100
110.0	0.00	0.00	0.00	0.197	2.57	96	2.52	98
120.0	0.00	0.00	0.00	0.197	2.62	94	2.57	96
130.0	0.00	0.00	0.00	0.197	2.67	93	2.62	94
167.0	0.00	0.00	0.00	0.197	2.85	87	2.80	88
212.0	0.00	0.00	0.00	0.197	3.05	81	3.01	82

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.063	10.32	1500	10.32	1500*
0.0	0.00	0.00	0.00	0.197	9.68	103	9.63	103
30.0	0.00	0.00	0.00	0.197	9.86	101	9.82	101
40.0	0.00	0.00	0.00	0.197	9.92	100	9.88	101
50.0	0.00	0.00	0.00	0.197	9.98	100	9.94	100
60.0	0.00	0.00	0.00	0.197	10.04	99	10.00	99
70.0	0.00	0.00	0.00	0.197	10.10	99	10.07	99
80.0	0.00	0.00	0.00	0.197	10.16	98	10.12	98
90.0	0.00	0.00	0.00	0.197	10.22	97	10.17	98
100.0	0.00	0.00	0.00	0.197	10.27	97	10.23	97
110.0	0.00	0.00	0.00	0.197	10.33	96	10.28	97
120.0	0.00	0.00	0.00	0.197	10.38	96	10.33	96
130.0	0.00	0.00	0.00	0.197	10.43	95	10.38	96
167.0	0.00	0.00	0.00	0.197	10.62	94	10.58	94
212.0	0.00	0.00	0.00	0.197	10.85	92	10.80	92

* Design Condition

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SHEET 58 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.58

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.063	23.54	1500	23.54	1500*
0.0	0.00	0.00	0.00	0.197	22.91	99	22.87	99
30.0	0.00	0.00	0.00	0.197	23.09	98	23.05	98
40.0	0.00	0.00	0.00	0.197	23.15	98	23.11	98
50.0	0.00	0.00	0.00	0.197	23.21	98	23.17	98
60.0	0.00	0.00	0.00	0.197	23.26	98	23.23	98
70.0	0.00	0.00	0.00	0.197	23.32	97	23.29	97
80.0	0.00	0.00	0.00	0.197	23.38	97	23.34	97
90.0	0.00	0.00	0.00	0.197	23.44	97	23.39	97
100.0	0.00	0.00	0.00	0.197	23.49	97	23.45	97
110.0	0.00	0.00	0.00	0.197	23.55	96	23.50	97
120.0	0.00	0.00	0.00	0.197	23.60	96	23.55	96
130.0	0.00	0.00	0.00	0.197	23.65	96	23.60	96
167.0	0.00	0.00	0.00	0.197	23.84	95	23.80	95
212.0	0.00	0.00	0.00	0.197	24.08	94	24.03	95

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.063	42.71	1500	42.71	1500*
0.0	0.00	0.00	0.00	0.197	42.09	98	42.04	98
30.0	0.00	0.00	0.00	0.197	42.26	97	42.22	97
40.0	0.00	0.00	0.00	0.197	42.32	97	42.28	97
50.0	0.00	0.00	0.00	0.197	42.38	97	42.34	97
60.0	0.00	0.00	0.00	0.197	42.43	97	42.40	97
70.0	0.00	0.00	0.00	0.197	42.49	97	42.46	97
80.0	0.00	0.00	0.00	0.197	42.55	97	42.51	97
90.0	0.00	0.00	0.00	0.197	42.61	97	42.56	97
100.0	0.00	0.00	0.00	0.197	42.66	97	42.62	97
110.0	0.00	0.00	0.00	0.197	42.72	96	42.67	97
120.0	0.00	0.00	0.00	0.197	42.77	96	42.72	96
130.0	0.00	0.00	0.00	0.197	42.82	96	42.77	96
167.0	0.00	0.00	0.00	0.197	43.01	96	42.97	96
212.0	0.00	0.00	0.00	0.197	43.25	95	43.20	95

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SHEET 59 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.59

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.063	68.65	1500	68.65	1500*
0.0	0.00	0.00	0.00	0.197	68.03	97	67.99	97
30.0	0.00	0.00	0.00	0.197	68.21	97	68.16	97
40.0	0.00	0.00	0.00	0.197	68.26	97	68.22	97
50.0	0.00	0.00	0.00	0.197	68.32	97	68.28	97
60.0	0.00	0.00	0.00	0.197	68.38	97	68.34	97
70.0	0.00	0.00	0.00	0.197	68.44	97	68.40	97
80.0	0.00	0.00	0.00	0.197	68.49	97	68.45	97
90.0	0.00	0.00	0.00	0.197	68.55	97	68.51	97
100.0	0.00	0.00	0.00	0.197	68.61	97	68.56	97
110.0	0.00	0.00	0.00	0.197	68.66	96	68.61	97
120.0	0.00	0.00	0.00	0.197	68.71	96	68.66	96
130.0	0.00	0.00	0.00	0.197	68.76	96	68.72	96
167.0	0.00	0.00	0.00	0.197	68.96	96	68.91	96
212.0	0.00	0.00	0.00	0.197	69.19	96	69.15	96

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.60

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4	1-5	1-5
100.00	1-11	2-0	2-1	2-2	2-3	2-4	2-4	2-5	2-6	2-6
125.00	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-9	3-10	3-11
150.00	4-5	4-7	4-9	4-11	5-0	5-2	5-4	5-5	5-7	5-8
175.00	6-0	6-3	6-5	6-8	6-10	7-1	7-3	7-5	7-7	7-9
200.00	7-10	8-1	8-5	8-8	8-11	9-3	9-5	9-8	9-11	10-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-5
100.00	2-0	2-1	2-2	2-3	2-3	2-4	2-5	2-6	2-6	2-7
125.00	3-2	3-3	3-4	3-5	3-7	3-8	3-9	3-10	3-11	4-0
150.00	4-6	4-8	4-10	5-0	5-1	5-3	5-5	5-6	5-8	5-9
175.00	6-2	6-4	6-7	6-9	7-0	7-2	7-4	7-7	7-9	7-10
200.00	8-0	8-4	8-7	8-10	9-1	9-4	9-7	9-10	10-1	10-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.61

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-5	2-5	2-6	2-6	2-6	2-6	2-6	2-6	2-7	2-7
125.00	3-10	3-10	3-10	3-11	3-11	3-11	3-11	4-0	4-0	4-0
150.00	5-6	5-6	5-7	5-7	5-7	5-8	5-8	5-9	5-9	5-9
175.00	7-6	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-10
200.00	9-9	9-10	9-11	9-11	10-0	10-1	10-1	10-2	10-3	10-3
225.00	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-11	13-0
250.00	15-3	15-4	15-6	15-7	15-8	15-9	15-10	15-11	16-0	16-1

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-5	2-6	2-6	2-6	2-6	2-6	2-6	2-7	2-7	2-7
125.00	3-10	3-10	3-10	3-11	3-11	3-11	4-0	4-0	4-0	4-0
150.00	5-6	5-6	5-7	5-7	5-8	5-8	5-8	5-9	5-9	5-10
175.00	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-11
200.00	9-10	9-10	9-11	10-0	10-1	10-1	10-2	10-3	10-3	10-4
225.00	12-5	12-6	12-7	12-8	12-9	12-10	12-10	12-11	13-0	13-1
250.00	15-4	15-5	15-6	15-8	15-9	15-10	15-11	16-0	16-1	16-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.62

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-9	5-9	5-9	5-9	5-9	5-9	5-10	5-10	5-10	5-10
175.00	7-9	7-10	7-10	7-10	7-10	7-11	7-11	7-11	7-11	7-11
200.00	10-2	10-2	10-3	10-3	10-3	10-4	10-4	10-4	10-4	10-5
225.00	12-11	12-11	12-11	13-0	13-0	13-1	13-1	13-1	13-2	13-2
250.00	15-11	16-0	16-0	16-1	16-1	16-2	16-2	16-2	16-3	16-3
275.00	19-3	19-4	19-5	19-5	19-6	19-7	19-7	19-8	19-8	19-9
300.00	23-0	23-1	23-1	23-2	23-3	23-3	23-4	23-5	23-5	23-6
325.00	27-0	27-1	27-2	27-3	27-4	27-4	27-5	27-6	27-7	27-7
350.00	31-4	31-5	31-6	31-7	31-8	31-9	31-10	31-11	32-0	32-1
375.00	36-1	36-2	36-3	36-4	36-5	36-7	36-8	36-9	36-10	36-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-9	5-9	5-9	5-9	5-9	5-10	5-10	5-10	5-10	5-10
175.00	7-10	7-10	7-10	7-10	7-11	7-11	7-11	7-11	7-11	8-0
200.00	10-2	10-3	10-3	10-3	10-4	10-4	10-4	10-4	10-5	10-5
225.00	12-11	12-11	13-0	13-0	13-0	13-1	13-1	13-2	13-2	13-2
250.00	15-11	16-0	16-0	16-1	16-1	16-2	16-2	16-3	16-3	16-4
275.00	19-4	19-5	19-5	19-6	19-6	19-7	19-7	19-8	19-9	19-9
300.00	23-0	23-1	23-2	23-2	23-3	23-4	23-5	23-5	23-6	23-7
325.00	27-1	27-2	27-2	27-3	27-4	27-5	27-6	27-7	27-7	27-8
350.00	31-5	31-6	31-7	31-8	31-9	31-10	31-11	32-0	32-1	32-2
375.00	36-2	36-3	36-4	36-5	36-6	36-7	36-8	36-9	36-10	36-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.63

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-5	10-5	10-5	10-6	10-6	10-6	10-6	10-6	10-6	10-7
225.00	13-3	13-3	13-3	13-3	13-3	13-4	13-4	13-4	13-4	13-4
250.00	16-4	16-4	16-4	16-5	16-5	16-5	16-6	16-6	16-6	16-6
275.00	19-9	19-10	19-10	19-10	19-11	19-11	19-11	20-0	20-0	20-0
300.00	23-7	23-7	23-8	23-8	23-8	23-9	23-9	23-9	23-10	23-10
325.00	27-8	27-9	27-9	27-10	27-10	27-11	27-11	28-0	28-0	28-0
350.00	32-2	32-3	32-3	32-4	32-4	32-5	32-5	32-6	32-6	32-7
375.00	37-0	37-1	37-1	37-2	37-2	37-3	37-4	37-4	37-5	37-5
400.00	42-2	42-3	42-3	42-4	42-5	42-5	42-6	42-7	42-7	42-8
425.00	47-8	47-9	47-10	47-11	47-11	48-0	48-1	48-2	48-2	48-3
450.00	53-7	53-8	53-9	53-9	53-10	53-11	54-0	54-1	54-2	54-3
475.00	59-10	59-11	60-0	60-1	60-2	60-3	60-4	60-5	60-5	60-6
500.00	66-5	66-6	66-7	66-8	66-9	66-11	67-0	67-1	67-2	67-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-5	10-5	10-6	10-6	10-6	10-6	10-6	10-6	10-7	10-7
225.00	13-3	13-3	13-3	13-3	13-4	13-4	13-4	13-4	13-4	13-5
250.00	16-4	16-4	16-5	16-5	16-5	16-5	16-6	16-6	16-6	16-6
275.00	19-10	19-10	19-10	19-11	19-11	19-11	19-11	20-0	20-0	20-0
300.00	23-7	23-7	23-8	23-8	23-9	23-9	23-9	23-10	23-10	23-10
325.00	27-9	27-9	27-10	27-10	27-11	27-11	27-11	28-0	28-0	28-1
350.00	32-2	32-3	32-3	32-4	32-5	32-5	32-6	32-6	32-7	32-7
375.00	37-0	37-1	37-2	37-2	37-3	37-3	37-4	37-5	37-5	37-6
400.00	42-2	42-3	42-4	42-5	42-5	42-6	42-7	42-7	42-8	42-9
425.00	47-9	47-10	47-10	47-11	48-0	48-1	48-2	48-2	48-3	48-4
450.00	53-7	53-8	53-9	53-10	53-11	54-0	54-1	54-2	54-2	54-3
475.00	59-10	59-11	60-0	60-1	60-2	60-3	60-4	60-5	60-6	60-7
500.00	66-6	66-7	66-8	66-9	66-10	66-11	67-0	67-2	67-3	67-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.64

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	16-9	16-9	16-9	16-9	16-9	16-10	16-10	16-10	16-10	16-10
275.00	20-3	20-3	20-4	20-4	20-4	20-4	20-4	20-5	20-5	20-5
300.00	24-2	24-2	24-2	24-3	24-3	24-3	24-3	24-3	24-4	24-4
325.00	28-5	28-5	28-5	28-6	28-6	28-6	28-6	28-7	28-7	28-7
350.00	33-0	33-0	33-0	33-1	33-1	33-1	33-2	33-2	33-2	33-3
375.00	37-11	37-11	38-0	38-0	38-1	38-1	38-1	38-2	38-2	38-2
400.00	43-3	43-3	43-4	43-4	43-4	43-5	43-5	43-6	43-6	43-6
425.00	48-11	48-11	49-0	49-0	49-1	49-1	49-2	49-2	49-2	49-3
450.00	54-11	55-0	55-0	55-1	55-1	55-2	55-2	55-3	55-3	55-4
475.00	61-4	61-5	61-5	61-6	61-6	61-7	61-8	61-8	61-9	61-9
500.00	68-1	68-2	68-3	68-3	68-4	68-5	68-5	68-6	68-7	68-7
525.00	75-3	75-4	75-5	75-6	75-6	75-7	75-8	75-9	75-9	75-10
550.00	82-10	82-11	83-0	83-0	83-1	83-2	83-3	83-4	83-4	83-5
575.00	90-9	90-10	90-11	91-0	91-1	91-2	91-3	91-4	91-4	91-5
600.00	99-1	99-2	99-3	99-4	99-5	99-6	99-7	99-8	99-9	99-10
625.00	107-10	107-11	108-0	108-1	108-3	108-4	108-5	108-6	108-7	108-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	16-9	16-9	16-9	16-9	16-10	16-10	16-10	16-10	16-10	16-10
275.00	20-3	20-4	20-4	20-4	20-4	20-4	20-5	20-5	20-5	20-5
300.00	24-2	24-2	24-2	24-3	24-3	24-3	24-3	24-4	24-4	24-4
325.00	28-5	28-5	28-5	28-6	28-6	28-6	28-7	28-7	28-7	28-7
350.00	33-0	33-0	33-1	33-1	33-1	33-2	33-2	33-2	33-3	33-3
375.00	37-11	38-0	38-0	38-0	38-1	38-1	38-2	38-2	38-2	38-3
400.00	43-3	43-3	43-4	43-4	43-5	43-5	43-6	43-6	43-6	43-7
425.00	48-11	48-11	49-0	49-0	49-1	49-1	49-2	49-2	49-3	49-3
450.00	54-11	55-0	55-1	55-1	55-2	55-2	55-3	55-3	55-4	55-4
475.00	61-4	61-5	61-6	61-6	61-7	61-7	61-8	61-9	61-9	61-10
500.00	68-2	68-2	68-3	68-4	68-5	68-5	68-6	68-7	68-7	68-8
525.00	75-4	75-5	75-5	75-6	75-7	75-8	75-8	75-9	75-10	75-11
550.00	82-10	82-11	83-0	83-1	83-2	83-3	83-4	83-4	83-5	83-6
575.00	90-10	90-11	91-0	91-1	91-1	91-2	91-3	91-4	91-5	91-6
600.00	99-2	99-3	99-4	99-5	99-6	99-7	99-8	99-9	99-10	99-11
625.00	107-11	108-0	108-1	108-2	108-3	108-4	108-6	108-7	108-8	108-9

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SHEET 65 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.65

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.063	1.92	2000	1.92	2000*
0.0	0.00	0.00	0.00	0.197	0.51	487	0.44	562
30.0	0.00	0.00	0.00	0.197	0.84	294	0.74	335
40.0	0.00	0.00	0.00	0.197	0.96	257	0.85	288
50.0	0.00	0.00	0.00	0.197	1.07	230	0.97	253
60.0	0.00	0.00	0.00	0.197	1.18	208	1.09	226
70.0	0.00	0.00	0.00	0.197	1.29	192	1.20	205
80.0	0.00	0.00	0.00	0.197	1.39	178	1.30	189
90.0	0.00	0.00	0.00	0.197	1.48	167	1.40	177
100.0	0.00	0.00	0.00	0.197	1.56	158	1.48	167
110.0	0.00	0.00	0.00	0.197	1.64	150	1.56	158
120.0	0.00	0.00	0.00	0.197	1.72	144	1.64	150
130.0	0.00	0.00	0.00	0.197	1.79	138	1.71	144
167.0	0.00	0.00	0.00	0.197	2.04	121	1.97	125
212.0	0.00	0.00	0.00	0.197	2.31	107	2.25	110

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.063	7.70	2000	7.70	2000*
0.0	0.00	0.00	0.00	0.197	6.52	152	6.43	154
30.0	0.00	0.00	0.00	0.197	6.79	146	6.70	148
40.0	0.00	0.00	0.00	0.197	6.87	144	6.79	146
50.0	0.00	0.00	0.00	0.197	6.96	142	6.88	144
60.0	0.00	0.00	0.00	0.197	7.04	141	6.97	142
70.0	0.00	0.00	0.00	0.197	7.12	139	7.05	140
80.0	0.00	0.00	0.00	0.197	7.21	137	7.13	139
90.0	0.00	0.00	0.00	0.197	7.29	136	7.21	137
100.0	0.00	0.00	0.00	0.197	7.36	135	7.28	136
110.0	0.00	0.00	0.00	0.197	7.43	133	7.35	135
120.0	0.00	0.00	0.00	0.197	7.50	132	7.43	133
130.0	0.00	0.00	0.00	0.197	7.57	131	7.50	132
167.0	0.00	0.00	0.00	0.197	7.83	127	7.76	128
212.0	0.00	0.00	0.00	0.197	8.14	122	8.06	123

* Design Condition

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SHEET 66 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.66

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.063	17.46	2000	17.46	2000*
0.0	0.00	0.00	0.00	0.197	16.33	137	16.24	138
30.0	0.00	0.00	0.00	0.197	16.57	135	16.49	136
40.0	0.00	0.00	0.00	0.197	16.65	135	16.58	135
50.0	0.00	0.00	0.00	0.197	16.73	134	16.66	135
60.0	0.00	0.00	0.00	0.197	16.81	133	16.74	134
70.0	0.00	0.00	0.00	0.197	16.89	133	16.82	133
80.0	0.00	0.00	0.00	0.197	16.97	132	16.90	133
90.0	0.00	0.00	0.00	0.197	17.05	132	16.97	132
100.0	0.00	0.00	0.00	0.197	17.12	131	17.04	132
110.0	0.00	0.00	0.00	0.197	17.19	131	17.12	131
120.0	0.00	0.00	0.00	0.197	17.26	130	17.19	131
130.0	0.00	0.00	0.00	0.197	17.33	130	17.26	130
167.0	0.00	0.00	0.00	0.197	17.59	128	17.52	128
212.0	0.00	0.00	0.00	0.197	17.90	126	17.83	126

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.063	31.39	2000	31.39	2000*
0.0	0.00	0.00	0.00	0.197	30.27	133	30.18	134
30.0	0.00	0.00	0.00	0.197	30.50	132	30.43	132
40.0	0.00	0.00	0.00	0.197	30.58	132	30.51	132
50.0	0.00	0.00	0.00	0.197	30.66	132	30.59	132
60.0	0.00	0.00	0.00	0.197	30.74	131	30.67	131
70.0	0.00	0.00	0.00	0.197	30.82	131	30.75	131
80.0	0.00	0.00	0.00	0.197	30.90	131	30.83	131
90.0	0.00	0.00	0.00	0.197	30.97	130	30.90	131
100.0	0.00	0.00	0.00	0.197	31.04	130	30.97	130
110.0	0.00	0.00	0.00	0.197	31.12	130	31.04	130
120.0	0.00	0.00	0.00	0.197	31.19	129	31.11	130
130.0	0.00	0.00	0.00	0.197	31.26	129	31.18	129
167.0	0.00	0.00	0.00	0.197	31.52	128	31.44	128
212.0	0.00	0.00	0.00	0.197	31.83	127	31.75	127

* Design Condition

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SHEET 67 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.67

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.063	49.76	2000	49.76	2000*
0.0	0.00	0.00	0.00	0.197	48.65	131	48.57	132
30.0	0.00	0.00	0.00	0.197	48.88	131	48.81	131
40.0	0.00	0.00	0.00	0.197	48.96	131	48.89	131
50.0	0.00	0.00	0.00	0.197	49.04	130	48.97	131
60.0	0.00	0.00	0.00	0.197	49.12	130	49.05	130
70.0	0.00	0.00	0.00	0.197	49.20	130	49.13	130
80.0	0.00	0.00	0.00	0.197	49.27	130	49.20	130
90.0	0.00	0.00	0.00	0.197	49.35	130	49.27	130
100.0	0.00	0.00	0.00	0.197	49.42	129	49.34	130
110.0	0.00	0.00	0.00	0.197	49.49	129	49.42	129
120.0	0.00	0.00	0.00	0.197	49.56	129	49.49	129
130.0	0.00	0.00	0.00	0.197	49.63	129	49.56	129
167.0	0.00	0.00	0.00	0.197	49.89	128	49.82	129
212.0	0.00	0.00	0.00	0.197	50.21	128	50.13	128

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11
100.00	0-7	0-9	0-10	1-0	1-1	1-2	1-4	1-5	1-6	1-7
125.00	1-0	1-2	1-4	1-6	1-8	1-10	2-0	2-2	2-4	2-5
150.00	1-5	1-8	1-11	2-2	2-5	2-8	2-11	3-2	3-4	3-6
175.00	1-11	2-3	2-7	3-0	3-4	3-8	4-0	4-3	4-6	4-9
200.00	2-6	2-11	3-5	3-11	4-4	4-10	5-3	5-7	5-11	6-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11	0-11
100.00	0-9	0-10	0-11	1-1	1-2	1-3	1-5	1-6	1-7	1-8
125.00	1-1	1-4	1-6	1-8	1-10	2-0	2-2	2-4	2-5	2-7
150.00	1-7	1-11	2-2	2-5	2-8	2-11	3-1	3-4	3-6	3-8
175.00	2-2	2-7	2-11	3-3	3-7	3-11	4-3	4-6	4-10	5-0
200.00	2-11	3-4	3-10	4-4	4-9	5-2	5-7	5-11	6-3	6-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.69

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-8	1-8	1-9	1-9	1-9	1-9	1-10	1-10	1-10
125.00	2-7	2-7	2-8	2-8	2-9	2-9	2-9	2-10	2-10	2-10
150.00	3-9	3-9	3-10	3-10	3-11	4-0	4-0	4-1	4-1	4-2
175.00	5-1	5-2	5-2	5-3	5-4	5-5	5-6	5-6	5-7	5-8
200.00	6-7	6-8	6-9	6-11	7-0	7-1	7-2	7-2	7-3	7-4
225.00	8-4	8-6	8-7	8-9	8-10	8-11	9-0	9-2	9-3	9-4
250.00	10-4	10-6	10-7	10-9	10-11	11-0	11-2	11-3	11-5	11-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-8	1-9	1-9	1-9	1-9	1-10	1-10	1-10	1-10
125.00	2-7	2-8	2-8	2-9	2-9	2-9	2-10	2-10	2-10	2-11
150.00	3-9	3-10	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-2
175.00	5-2	5-2	5-3	5-4	5-5	5-5	5-6	5-7	5-8	5-8
200.00	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4	7-5
225.00	8-6	8-7	8-8	8-10	8-11	9-0	9-1	9-3	9-4	9-5
250.00	10-6	10-7	10-9	10-11	11-0	11-2	11-3	11-5	11-6	11-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.70

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-1	4-1	4-2	4-2	4-2	4-2	4-3	4-3	4-3	4-3
175.00	5-7	5-7	5-8	5-8	5-8	5-9	5-9	5-9	5-9	5-10
200.00	7-3	7-4	7-4	7-5	7-5	7-6	7-6	7-6	7-7	7-7
225.00	9-3	9-3	9-4	9-4	9-5	9-5	9-6	9-6	9-7	9-7
250.00	11-5	11-5	11-6	11-7	11-7	11-8	11-9	11-9	11-10	11-10
275.00	13-9	13-10	13-11	14-0	14-1	14-2	14-2	14-3	14-4	14-4
300.00	16-5	16-6	16-7	16-8	16-9	16-10	16-11	17-0	17-1	17-1
325.00	19-3	19-4	19-6	19-7	19-8	19-9	19-10	19-11	20-0	20-1
350.00	22-4	22-6	22-7	22-8	22-10	22-11	23-0	23-2	23-3	23-4
375.00	25-8	25-10	26-0	26-1	26-3	26-4	26-6	26-7	26-8	26-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-1	4-2	4-2	4-2	4-2	4-3	4-3	4-3	4-3	4-3
175.00	5-7	5-7	5-8	5-8	5-8	5-9	5-9	5-9	5-10	5-10
200.00	7-4	7-4	7-5	7-5	7-5	7-6	7-6	7-7	7-7	7-7
225.00	9-3	9-4	9-4	9-5	9-5	9-6	9-6	9-7	9-7	9-8
250.00	11-5	11-6	11-7	11-7	11-8	11-9	11-9	11-10	11-10	11-11
275.00	13-10	13-11	14-0	14-1	14-1	14-2	14-3	14-4	14-5	14-5
300.00	16-6	16-7	16-8	16-9	16-10	16-11	17-0	17-1	17-1	17-2
325.00	19-4	19-6	19-7	19-8	19-9	19-10	19-11	20-0	20-1	20-2
350.00	22-6	22-7	22-8	22-10	22-11	23-0	23-2	23-3	23-4	23-5
375.00	25-10	25-11	26-1	26-2	26-4	26-5	26-7	26-8	26-10	26-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.71

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-7	7-7	7-7	7-7	7-7	7-8	7-8	7-8	7-8	7-9
225.00	9-7	9-7	9-7	9-8	9-8	9-8	9-8	9-9	9-9	9-9
250.00	11-10	11-10	11-10	11-11	11-11	11-11	12-0	12-0	12-0	12-1
275.00	14-3	14-4	14-4	14-5	14-5	14-6	14-6	14-7	14-7	14-7
300.00	17-0	17-1	17-1	17-2	17-2	17-3	17-3	17-4	17-4	17-5
325.00	20-0	20-0	20-1	20-2	20-2	20-3	20-4	20-4	20-5	20-5
350.00	23-2	23-3	23-4	23-5	23-5	23-6	23-7	23-7	23-8	23-9
375.00	26-8	26-9	26-9	26-10	26-11	27-0	27-1	27-2	27-2	27-3
400.00	30-4	30-5	30-6	30-7	30-8	30-9	30-10	30-11	31-0	31-0
425.00	34-3	34-5	34-6	34-7	34-8	34-9	34-10	34-11	35-0	35-1
450.00	38-6	38-7	38-8	38-10	38-11	39-0	39-1	39-2	39-3	39-4
475.00	42-11	43-0	43-2	43-3	43-5	43-6	43-7	43-9	43-10	43-11
500.00	47-7	47-9	47-10	48-0	48-2	48-3	48-5	48-6	48-7	48-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-7	7-7	7-7	7-7	7-8	7-8	7-8	7-8	7-9	7-9
225.00	9-7	9-7	9-8	9-8	9-8	9-8	9-9	9-9	9-9	9-10
250.00	11-10	11-10	11-11	11-11	11-11	12-0	12-0	12-0	12-1	12-1
275.00	14-4	14-4	14-5	14-5	14-6	14-6	14-7	14-7	14-7	14-8
300.00	17-1	17-1	17-2	17-2	17-3	17-3	17-4	17-4	17-5	17-5
325.00	20-0	20-1	20-2	20-2	20-3	20-3	20-4	20-5	20-5	20-6
350.00	23-3	23-4	23-4	23-5	23-6	23-7	23-7	23-8	23-9	23-9
375.00	26-9	26-9	26-10	26-11	27-0	27-1	27-2	27-2	27-3	27-4
400.00	30-5	30-6	30-7	30-8	30-9	30-10	30-11	31-0	31-1	31-1
425.00	34-5	34-6	34-7	34-8	34-9	34-10	34-11	35-0	35-1	35-2
450.00	38-7	38-8	38-9	38-11	39-0	39-1	39-2	39-3	39-4	39-6
475.00	43-0	43-2	43-3	43-4	43-6	43-7	43-9	43-10	43-11	44-0
500.00	47-9	47-10	48-0	48-1	48-3	48-4	48-6	48-7	48-9	48-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.72

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	12-1	12-1	12-1	12-2	12-2	12-2	12-2	12-2	12-3	12-3
275.00	14-7	14-8	14-8	14-8	14-8	14-9	14-9	14-9	14-10	14-10
300.00	17-5	17-5	17-6	17-6	17-6	17-7	17-7	17-7	17-7	17-8
325.00	20-5	20-6	20-6	20-6	20-7	20-7	20-8	20-8	20-8	20-9
350.00	23-9	23-9	23-10	23-10	23-11	23-11	23-11	24-0	24-0	24-1
375.00	27-3	27-4	27-4	27-5	27-5	27-6	27-6	27-7	27-7	27-8
400.00	31-1	31-1	31-2	31-2	31-3	31-4	31-4	31-5	31-5	31-6
425.00	35-1	35-2	35-2	35-3	35-4	35-4	35-5	35-6	35-6	35-7
450.00	39-5	39-5	39-6	39-7	39-8	39-8	39-9	39-10	39-10	39-11
475.00	43-11	44-0	44-1	44-2	44-3	44-3	44-4	44-5	44-6	44-7
500.00	48-9	48-10	48-11	49-0	49-1	49-2	49-2	49-3	49-4	49-5
525.00	53-9	53-11	54-0	54-1	54-2	54-3	54-4	54-5	54-6	54-7
550.00	59-1	59-3	59-4	59-5	59-6	59-7	59-8	59-9	59-10	59-11
575.00	64-8	64-10	64-11	65-0	65-2	65-3	65-4	65-5	65-6	65-7
600.00	70-7	70-8	70-9	70-11	71-0	71-2	71-3	71-4	71-5	71-7
625.00	76-8	76-10	76-11	77-1	77-2	77-4	77-5	77-6	77-8	77-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	12-1	12-1	12-2	12-2	12-2	12-2	12-2	12-3	12-3	12-3
275.00	14-8	14-8	14-8	14-8	14-9	14-9	14-9	14-10	14-10	14-10
300.00	17-5	17-6	17-6	17-6	17-6	17-7	17-7	17-7	17-8	17-8
325.00	20-6	20-6	20-6	20-7	20-7	20-8	20-8	20-8	20-9	20-9
350.00	23-9	23-10	23-10	23-11	23-11	23-11	24-0	24-0	24-1	24-1
375.00	27-4	27-4	27-5	27-5	27-6	27-6	27-7	27-7	27-8	27-8
400.00	31-1	31-2	31-2	31-3	31-4	31-4	31-5	31-5	31-6	31-6
425.00	35-2	35-2	35-3	35-4	35-4	35-5	35-6	35-6	35-7	35-8
450.00	39-5	39-6	39-7	39-8	39-8	39-9	39-10	39-11	39-11	40-0
475.00	44-0	44-1	44-2	44-2	44-3	44-4	44-5	44-6	44-7	44-7
500.00	48-10	48-11	49-0	49-0	49-1	49-2	49-3	49-4	49-5	49-6
525.00	53-11	54-0	54-1	54-2	54-3	54-4	54-5	54-6	54-7	54-8
550.00	59-3	59-4	59-5	59-6	59-7	59-8	59-9	59-10	59-11	60-1
575.00	64-10	64-11	65-0	65-1	65-3	65-4	65-5	65-6	65-8	65-9
600.00	70-8	70-9	70-11	71-0	71-1	71-3	71-4	71-6	71-7	71-8
625.00	76-10	76-11	77-0	77-2	77-3	77-5	77-6	77-8	77-9	77-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.73

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.063	1.53	2500	1.53	2500*
0.0	0.00	0.00	0.00	0.197	0.17	1473	0.16	1551
30.0	0.00	0.00	0.00	0.197	0.23	1091	0.21	1191
40.0	0.00	0.00	0.00	0.197	0.25	966	0.23	1071
50.0	0.00	0.00	0.00	0.197	0.29	844	0.26	952
60.0	0.00	0.00	0.00	0.197	0.34	727	0.29	835
70.0	0.00	0.00	0.00	0.197	0.40	616	0.34	722
80.0	0.00	0.00	0.00	0.197	0.48	515	0.40	614
90.0	0.00	0.00	0.00	0.197	0.57	429	0.48	515
100.0	0.00	0.00	0.00	0.197	0.68	360	0.57	430
110.0	0.00	0.00	0.00	0.197	0.79	313	0.68	363
120.0	0.00	0.00	0.00	0.197	0.89	276	0.78	317
130.0	0.00	0.00	0.00	0.197	1.00	248	0.88	281
167.0	0.00	0.00	0.00	0.197	1.35	183	1.24	199
212.0	0.00	0.00	0.00	0.197	1.71	144	1.62	152

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.063	6.15	2500	6.15	2500*
0.0	0.00	0.00	0.00	0.197	4.16	237	3.98	248
30.0	0.00	0.00	0.00	0.197	4.55	217	4.39	225
40.0	0.00	0.00	0.00	0.197	4.67	211	4.52	219
50.0	0.00	0.00	0.00	0.197	4.79	206	4.64	213
60.0	0.00	0.00	0.00	0.197	4.91	201	4.77	207
70.0	0.00	0.00	0.00	0.197	5.02	197	4.89	202
80.0	0.00	0.00	0.00	0.197	5.14	192	5.00	197
90.0	0.00	0.00	0.00	0.197	5.24	189	5.11	193
100.0	0.00	0.00	0.00	0.197	5.34	185	5.21	189
110.0	0.00	0.00	0.00	0.197	5.43	182	5.31	186
120.0	0.00	0.00	0.00	0.197	5.53	179	5.41	183
130.0	0.00	0.00	0.00	0.197	5.62	176	5.51	179
167.0	0.00	0.00	0.00	0.197	5.96	166	5.85	169
212.0	0.00	0.00	0.00	0.197	6.35	156	6.24	158

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.74

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.063	13.90	2500	13.90	2500*
0.0	0.00	0.00	0.00	0.197	12.08	185	11.93	187
30.0	0.00	0.00	0.00	0.197	12.40	180	12.26	182
40.0	0.00	0.00	0.00	0.197	12.51	178	12.37	180
50.0	0.00	0.00	0.00	0.197	12.61	177	12.48	179
60.0	0.00	0.00	0.00	0.197	12.72	176	12.59	177
70.0	0.00	0.00	0.00	0.197	12.82	174	12.70	176
80.0	0.00	0.00	0.00	0.197	12.92	173	12.80	174
90.0	0.00	0.00	0.00	0.197	13.01	172	12.90	173
100.0	0.00	0.00	0.00	0.197	13.11	170	12.99	172
110.0	0.00	0.00	0.00	0.197	13.20	169	13.08	171
120.0	0.00	0.00	0.00	0.197	13.29	168	13.18	170
130.0	0.00	0.00	0.00	0.197	13.38	167	13.27	168
167.0	0.00	0.00	0.00	0.197	13.71	163	13.60	164
212.0	0.00	0.00	0.00	0.197	14.10	159	14.00	160

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.063	24.88	2500	24.88	2500*
0.0	0.00	0.00	0.00	0.197	23.11	173	22.97	174
30.0	0.00	0.00	0.00	0.197	23.41	171	23.28	172
40.0	0.00	0.00	0.00	0.197	23.52	170	23.38	171
50.0	0.00	0.00	0.00	0.197	23.62	169	23.49	170
60.0	0.00	0.00	0.00	0.197	23.72	168	23.59	169
70.0	0.00	0.00	0.00	0.197	23.82	168	23.70	169
80.0	0.00	0.00	0.00	0.197	23.91	167	23.80	168
90.0	0.00	0.00	0.00	0.197	24.00	167	23.89	167
100.0	0.00	0.00	0.00	0.197	24.10	166	23.98	167
110.0	0.00	0.00	0.00	0.197	24.19	165	24.07	166
120.0	0.00	0.00	0.00	0.197	24.28	165	24.16	165
130.0	0.00	0.00	0.00	0.197	24.36	164	24.25	165
167.0	0.00	0.00	0.00	0.197	24.69	162	24.58	163
212.0	0.00	0.00	0.00	0.197	25.09	160	24.98	160

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.75

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.063	39.23	2500	39.23	2500*
0.0	0.00	0.00	0.00	0.197	37.48	168	37.34	169
30.0	0.00	0.00	0.00	0.197	37.78	167	37.65	167
40.0	0.00	0.00	0.00	0.197	37.88	166	37.75	167
50.0	0.00	0.00	0.00	0.197	37.98	166	37.85	166
60.0	0.00	0.00	0.00	0.197	38.07	165	37.95	166
70.0	0.00	0.00	0.00	0.197	38.17	165	38.05	166
80.0	0.00	0.00	0.00	0.197	38.27	165	38.15	165
90.0	0.00	0.00	0.00	0.197	38.36	164	38.24	165
100.0	0.00	0.00	0.00	0.197	38.45	164	38.33	164
110.0	0.00	0.00	0.00	0.197	38.54	164	38.42	164
120.0	0.00	0.00	0.00	0.197	38.63	163	38.51	164
130.0	0.00	0.00	0.00	0.197	38.71	163	38.60	163
167.0	0.00	0.00	0.00	0.197	39.04	162	38.93	162
212.0	0.00	0.00	0.00	0.197	39.44	160	39.33	160

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.76

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5
100.00	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8
125.00	0-4	0-4	0-4	0-5	0-6	0-6	0-8	0-9	0-11	1-1
150.00	0-5	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-3	1-6
175.00	0-7	0-8	0-8	0-10	0-11	1-1	1-3	1-6	1-9	2-1
200.00	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-11	2-3	2-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-5
100.00	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9
125.00	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-1	1-3
150.00	0-5	0-6	0-7	0-8	0-9	0-11	1-1	1-3	1-6	1-9
175.00	0-7	0-8	0-9	0-11	1-0	1-3	1-6	1-9	2-1	2-5
200.00	0-10	0-11	1-0	1-2	1-4	1-7	1-11	2-4	2-9	3-2

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SHEET 77 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.77

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-1	1-2	1-2	1-2	1-3	1-3	1-3	1-4	1-4
125.00	1-8	1-9	1-9	1-10	1-10	1-11	1-11	2-0	2-0	2-1
150.00	2-5	2-6	2-6	2-7	2-8	2-9	2-10	2-10	2-11	3-0
175.00	3-3	3-4	3-5	3-7	3-8	3-9	3-10	3-11	4-0	4-1
200.00	4-3	4-5	4-6	4-8	4-9	4-11	5-0	5-1	5-3	5-4
225.00	5-5	5-7	5-9	5-11	6-0	6-2	6-4	6-6	6-7	6-9
250.00	6-8	6-10	7-1	7-3	7-5	7-8	7-10	8-0	8-2	8-4

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-2	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-4
125.00	1-9	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-1	2-1
150.00	2-6	2-7	2-8	2-8	2-9	2-10	2-11	2-11	3-0	3-1
175.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
200.00	4-5	4-7	4-8	4-9	4-11	5-0	5-2	5-3	5-4	5-5
225.00	5-7	5-9	5-11	6-1	6-3	6-4	6-6	6-8	6-9	6-11
250.00	6-11	7-1	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.78

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3- 0	3- 1	3- 1	3- 1	3- 2	3- 2	3- 2	3- 3	3- 3	3- 3
175.00	4- 2	4- 2	4- 2	4- 3	4- 3	4- 4	4- 4	4- 5	4- 5	4- 5
200.00	5- 5	5- 5	5- 6	5- 6	5- 7	5- 8	5- 8	5- 9	5- 9	5-10
225.00	6-10	6-11	6-11	7- 0	7- 1	7- 2	7- 2	7- 3	7- 4	7- 4
250.00	8- 5	8- 6	8- 7	8- 8	8- 9	8-10	8-11	8-11	9- 0	9- 1
275.00	10- 2	10- 4	10- 5	10- 6	10- 7	10- 8	10- 9	10-10	10-11	11- 0
300.00	12- 2	12- 3	12- 4	12- 6	12- 7	12- 8	12-10	12-11	13- 0	13- 1
325.00	14- 3	14- 5	14- 6	14- 8	14- 9	14-11	15- 0	15- 2	15- 3	15- 4
350.00	16- 7	16- 8	16-10	17- 0	17- 2	17- 4	17- 5	17- 7	17- 8	17-10
375.00	19- 0	19- 2	19- 4	19- 6	19- 8	19-10	20- 0	20- 2	20- 4	20- 6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3- 1	3- 1	3- 1	3- 2	3- 2	3- 2	3- 3	3- 3	3- 3	3- 4
175.00	4- 2	4- 3	4- 3	4- 3	4- 4	4- 4	4- 5	4- 5	4- 5	4- 6
200.00	5- 5	5- 6	5- 7	5- 7	5- 8	5- 8	5- 9	5- 9	5-10	5-10
225.00	6-11	7- 0	7- 0	7- 1	7- 2	7- 2	7- 3	7- 4	7- 4	7- 5
250.00	8- 6	8- 7	8- 8	8- 9	8-10	8-11	9- 0	9- 0	9- 1	9- 2
275.00	10- 4	10- 5	10- 6	10- 7	10- 8	10- 9	10-10	10-11	11- 0	11- 1
300.00	12- 4	12- 5	12- 6	12- 7	12- 9	12-10	12-11	13- 0	13- 1	13- 2
325.00	14- 5	14- 7	14- 8	14-10	14-11	15- 1	15- 2	15- 3	15- 5	15- 6
350.00	16- 9	16-11	17- 0	17- 2	17- 4	17- 6	17- 7	17- 9	17-10	18- 0
375.00	19- 3	19- 5	19- 7	19- 9	19-11	20- 1	20- 3	20- 4	20- 6	20- 8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.79

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5- 9	5-10	5-10	5-10	5-11	5-11	5-11	5-11	6- 0	6- 0
225.00	7- 4	7- 4	7- 5	7- 5	7- 5	7- 6	7- 6	7- 6	7- 7	7- 7
250.00	9- 0	9- 1	9- 1	9- 2	9- 2	9- 3	9- 3	9- 4	9- 4	9- 5
275.00	10-11	11- 0	11- 0	11- 1	11- 1	11- 2	11- 3	11- 3	11- 4	11- 4
300.00	13- 0	13- 1	13- 2	13- 2	13- 3	13- 4	13- 4	13- 5	13- 6	13- 6
325.00	15- 3	15- 4	15- 5	15- 6	15- 7	15- 7	15- 8	15- 9	15-10	15-10
350.00	17- 9	17-10	17-11	18- 0	18- 1	18- 1	18- 2	18- 3	18- 4	18- 5
375.00	20- 4	20- 5	20- 7	20- 8	20- 9	20-10	20-11	21- 0	21- 1	21- 2
400.00	23- 2	23- 3	23- 5	23- 6	23- 7	23- 8	23-10	23-11	24- 0	24- 1
425.00	26- 2	26- 4	26- 5	26- 6	26- 8	26- 9	26-11	27- 0	27- 1	27- 2
450.00	29- 4	29- 6	29- 8	29- 9	29-11	30- 0	30- 2	30- 3	30- 5	30- 6
475.00	32- 9	32-11	33- 0	33- 2	33- 4	33- 6	33- 7	33- 9	33-11	34- 0
500.00	36- 4	36- 6	36- 8	36-10	37- 0	37- 1	37- 3	37- 5	37- 7	37- 9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-10	5-10	5-10	5-11	5-11	5-11	5-11	6- 0	6- 0	6- 0
225.00	7- 4	7- 5	7- 5	7- 5	7- 6	7- 6	7- 7	7- 7	7- 7	7- 8
250.00	9- 1	9- 1	9- 2	9- 2	9- 3	9- 3	9- 4	9- 4	9- 5	9- 5
275.00	11- 0	11- 0	11- 1	11- 2	11- 2	11- 3	11- 3	11- 4	11- 4	11- 5
300.00	13- 1	13- 2	13- 2	13- 3	13- 4	13- 4	13- 5	13- 6	13- 6	13- 7
325.00	15- 4	15- 5	15- 6	15- 7	15- 8	15- 8	15- 9	15-10	15-11	15-11
350.00	17-10	17-11	18- 0	18- 1	18- 2	18- 3	18- 3	18- 4	18- 5	18- 6
375.00	20- 6	20- 7	20- 8	20- 9	20-10	20-11	21- 0	21- 1	21- 2	21- 3
400.00	23- 4	23- 5	23- 6	23- 7	23- 9	23-10	23-11	24- 0	24- 1	24- 2
425.00	26- 4	26- 5	26- 7	26- 8	26- 9	26-11	27- 0	27- 1	27- 3	27- 4
450.00	29- 6	29- 8	29-10	29-11	30- 1	30- 2	30- 4	30- 5	30- 6	30- 8
475.00	32-11	33- 1	33- 3	33- 4	33- 6	33- 8	33- 9	33-11	34- 1	34- 2
500.00	36- 6	36- 8	36-10	37- 0	37- 2	37- 4	37- 6	37- 7	37- 9	37-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.80

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9- 4	9- 4	9- 5	9- 5	9- 5	9- 6	9- 6	9- 6	9- 6	9- 7
275.00	11- 4	11- 4	11- 4	11- 5	11- 5	11- 5	11- 6	11- 6	11- 6	11- 7
300.00	13- 5	13- 6	13- 6	13- 7	13- 7	13- 8	13- 8	13- 8	13- 9	13- 9
325.00	15-10	15-10	15-11	15-11	16- 0	16- 0	16- 1	16- 1	16- 1	16- 2
350.00	18- 4	18- 5	18- 5	18- 6	18- 6	18- 7	18- 7	18- 8	18- 9	18- 9
375.00	21- 1	21- 1	21- 2	21- 3	21- 3	21- 4	21- 5	21- 5	21- 6	21- 6
400.00	24- 0	24- 0	24- 1	24- 2	24- 3	24- 3	24- 4	24- 5	24- 6	24- 6
425.00	27- 1	27- 2	27- 3	27- 3	27- 4	27- 5	27- 6	27- 7	27- 8	27- 8
450.00	30- 4	30- 5	30- 6	30- 7	30- 8	30- 9	30-10	30-11	31- 0	31- 1
475.00	33-10	33-11	34- 1	34- 2	34- 3	34- 4	34- 5	34- 6	34- 7	34- 8
500.00	37- 7	37- 8	37- 9	37-10	37-11	38- 1	38- 2	38- 3	38- 4	38- 5
525.00	41- 5	41- 6	41- 8	41- 9	41-10	42- 0	42- 1	42- 2	42- 4	42- 5
550.00	45- 6	45- 7	45- 9	45-10	46- 0	46- 1	46- 3	46- 4	46- 6	46- 7
575.00	49- 9	49-11	50- 1	50- 2	50- 4	50- 5	50- 7	50- 8	50-10	50-11
600.00	54- 3	54- 5	54- 6	54- 8	54-10	55- 0	55- 2	55- 3	55- 5	55- 6
625.00	58-11	59- 1	59- 3	59- 5	59- 7	59- 9	59-10	60- 0	60- 2	60- 4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9- 4	9- 5	9- 5	9- 5	9- 6	9- 6	9- 6	9- 6	9- 7	9- 7
275.00	11- 4	11- 4	11- 5	11- 5	11- 5	11- 6	11- 6	11- 6	11- 7	11- 7
300.00	13- 6	13- 6	13- 7	13- 7	13- 8	13- 8	13- 9	13- 9	13- 9	13-10
325.00	15-10	15-11	15-11	16- 0	16- 0	16- 1	16- 1	16- 2	16- 2	16- 3
350.00	18- 5	18- 5	18- 6	18- 6	18- 7	18- 8	18- 8	18- 9	18- 9	18-10
375.00	21- 1	21- 2	21- 3	21- 3	21- 4	21- 5	21- 5	21- 6	21- 7	21- 7
400.00	24- 1	24- 1	24- 2	24- 3	24- 4	24- 4	24- 5	24- 6	24- 6	24- 7
425.00	27- 2	27- 3	27- 4	27- 5	27- 5	27- 6	27- 7	27- 8	27- 9	27- 9
450.00	30- 6	30- 7	30- 8	30- 9	30-10	30-10	30-11	31- 0	31- 1	31- 2
475.00	34- 0	34- 1	34- 2	34- 3	34- 4	34- 5	34- 6	34- 7	34- 8	34- 9
500.00	37- 8	37- 9	37-11	38- 0	38- 1	38- 2	38- 3	38- 4	38- 5	38- 6
525.00	41- 7	41- 8	41- 9	41-11	42- 0	42- 1	42- 3	42- 4	42- 5	42- 6
550.00	45- 8	45- 9	45-11	46- 0	46- 2	46- 3	46- 5	46- 6	46- 7	46- 8
575.00	49-11	50- 1	50- 3	50- 4	50- 6	50- 7	50- 9	50-10	51- 0	51- 1
600.00	54- 5	54- 7	54- 9	54-10	55- 0	55- 2	55- 4	55- 5	55- 7	55- 8
625.00	59- 1	59- 3	59- 5	59- 7	59- 9	59-11	60- 1	60- 2	60- 4	60- 6

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SHEET 81 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.81

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.063	1.28	3000	1.28	3000*
0.0	0.00	0.00	0.00	0.197	0.11	2284	0.10	2355
30.0	0.00	0.00	0.00	0.197	0.13	1894	0.12	2002
40.0	0.00	0.00	0.00	0.197	0.14	1764	0.13	1882
50.0	0.00	0.00	0.00	0.197	0.15	1635	0.14	1761
60.0	0.00	0.00	0.00	0.197	0.16	1506	0.15	1639
70.0	0.00	0.00	0.00	0.197	0.18	1377	0.16	1517
80.0	0.00	0.00	0.00	0.197	0.20	1250	0.18	1394
90.0	0.00	0.00	0.00	0.197	0.22	1123	0.19	1271
100.0	0.00	0.00	0.00	0.197	0.25	998	0.21	1148
110.0	0.00	0.00	0.00	0.197	0.28	875	0.24	1026
120.0	0.00	0.00	0.00	0.197	0.33	756	0.27	905
130.0	0.00	0.00	0.00	0.197	0.37	659	0.31	787
167.0	0.00	0.00	0.00	0.197	0.65	379	0.54	458
212.0	0.00	0.00	0.00	0.197	1.11	222	0.97	255

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.063	5.12	3000	5.12	3000*
0.0	0.00	0.00	0.00	0.197	1.92	513	1.64	603
30.0	0.00	0.00	0.00	0.197	2.49	396	2.19	450
40.0	0.00	0.00	0.00	0.197	2.67	369	2.38	415
50.0	0.00	0.00	0.00	0.197	2.85	346	2.56	385
60.0	0.00	0.00	0.00	0.197	3.02	327	2.74	359
70.0	0.00	0.00	0.00	0.197	3.18	310	2.92	337
80.0	0.00	0.00	0.00	0.197	3.33	296	3.09	319
90.0	0.00	0.00	0.00	0.197	3.47	284	3.26	303
100.0	0.00	0.00	0.00	0.197	3.61	273	3.42	289
110.0	0.00	0.00	0.00	0.197	3.74	264	3.55	278
120.0	0.00	0.00	0.00	0.197	3.87	255	3.69	268
130.0	0.00	0.00	0.00	0.197	4.00	247	3.82	258
167.0	0.00	0.00	0.00	0.197	4.44	222	4.27	231
212.0	0.00	0.00	0.00	0.197	4.94	200	4.78	207

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.82

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.063	11.55	3000	11.55	3000*
0.0	0.00	0.00	0.00	0.197	8.80	253	8.54	260
30.0	0.00	0.00	0.00	0.197	9.23	241	8.99	248
40.0	0.00	0.00	0.00	0.197	9.37	238	9.13	244
50.0	0.00	0.00	0.00	0.197	9.51	234	9.28	240
60.0	0.00	0.00	0.00	0.197	9.64	231	9.42	236
70.0	0.00	0.00	0.00	0.197	9.77	228	9.56	233
80.0	0.00	0.00	0.00	0.197	9.89	225	9.70	230
90.0	0.00	0.00	0.00	0.197	10.01	222	9.83	226
100.0	0.00	0.00	0.00	0.197	10.12	220	9.95	224
110.0	0.00	0.00	0.00	0.197	10.24	217	10.07	221
120.0	0.00	0.00	0.00	0.197	10.36	215	10.19	219
130.0	0.00	0.00	0.00	0.197	10.47	213	10.30	216
167.0	0.00	0.00	0.00	0.197	10.89	205	10.72	208
212.0	0.00	0.00	0.00	0.197	11.37	196	11.21	199

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.063	20.64	3000	20.64	3000*
0.0	0.00	0.00	0.00	0.197	18.02	220	17.78	223
30.0	0.00	0.00	0.00	0.197	18.40	216	18.18	218
40.0	0.00	0.00	0.00	0.197	18.53	214	18.31	217
50.0	0.00	0.00	0.00	0.197	18.66	213	18.44	215
60.0	0.00	0.00	0.00	0.197	18.78	212	18.58	214
70.0	0.00	0.00	0.00	0.197	18.90	210	18.70	212
80.0	0.00	0.00	0.00	0.197	19.01	209	18.83	211
90.0	0.00	0.00	0.00	0.197	19.12	208	18.96	210
100.0	0.00	0.00	0.00	0.197	19.24	207	19.07	208
110.0	0.00	0.00	0.00	0.197	19.35	206	19.18	207
120.0	0.00	0.00	0.00	0.197	19.46	204	19.29	206
130.0	0.00	0.00	0.00	0.197	19.57	203	19.40	205
167.0	0.00	0.00	0.00	0.197	19.97	199	19.81	201
212.0	0.00	0.00	0.00	0.197	20.45	195	20.29	196

* Design Condition

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SHEET 83 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.83

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.063	32.44	3000	32.44	3000*
0.0	0.00	0.00	0.00	0.197	29.88	209	29.65	211
30.0	0.00	0.00	0.00	0.197	30.25	207	30.04	208
40.0	0.00	0.00	0.00	0.197	30.37	206	30.16	207
50.0	0.00	0.00	0.00	0.197	30.49	205	30.29	206
60.0	0.00	0.00	0.00	0.197	30.61	204	30.41	205
70.0	0.00	0.00	0.00	0.197	30.72	203	30.54	205
80.0	0.00	0.00	0.00	0.197	30.83	203	30.66	204
90.0	0.00	0.00	0.00	0.197	30.95	202	30.78	203
100.0	0.00	0.00	0.00	0.197	31.05	201	30.89	202
110.0	0.00	0.00	0.00	0.197	31.16	201	31.00	202
120.0	0.00	0.00	0.00	0.197	31.27	200	31.11	201
130.0	0.00	0.00	0.00	0.197	31.38	199	31.22	200
167.0	0.00	0.00	0.00	0.197	31.78	197	31.62	198
212.0	0.00	0.00	0.00	0.197	32.26	194	32.10	195

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.84

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4
150.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-8	0-9
200.00	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	1-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5
150.00	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8
175.00	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
200.00	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-11	1-0	1-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.85

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11
125.00	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-5
150.00	1-2	1-3	1-4	1-5	1-7	1-8	1-9	1-10	1-11	2-0
175.00	1-6	1-8	1-10	2-0	2-1	2-3	2-4	2-6	2-7	2-9
200.00	2-0	2-2	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7
225.00	2-6	2-9	3-0	3-3	3-6	3-8	3-11	4-2	4-4	4-6
250.00	3-2	3-5	3-9	4-0	4-3	4-7	4-10	5-1	5-4	5-7

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-7	0-8	0-9	0-9	0-10	0-10	0-10	0-11	0-11
125.00	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-4	1-5	1-6
150.00	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1
175.00	1-9	1-11	2-1	2-2	2-4	2-5	2-7	2-8	2-9	2-10
200.00	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-7	3-9
225.00	2-11	3-2	3-5	3-7	3-10	4-0	4-3	4-5	4-7	4-9
250.00	3-7	3-11	4-2	4-5	4-9	5-0	5-2	5-5	5-8	5-10

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SHEET 86 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.86

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-3	2-3	2-4	2-4	2-5	2-5	2-5	2-6	2-6
175.00	3-0	3-1	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-5
200.00	3-11	4-0	4-1	4-1	4-2	4-3	4-4	4-4	4-5	4-6
225.00	5-0	5-1	5-2	5-3	5-4	5-4	5-5	5-6	5-7	5-8
250.00	6-2	6-3	6-4	6-5	6-6	6-8	6-9	6-10	6-11	7-0
275.00	7-5	7-7	7-8	7-10	7-11	8-0	8-2	8-3	8-4	8-6
300.00	8-10	9-0	9-2	9-3	9-5	9-7	9-8	9-10	9-11	10-1
325.00	10-5	10-7	10-9	10-11	11-1	11-3	11-5	11-6	11-8	11-10
350.00	12-0	12-3	12-5	12-8	12-10	13-0	13-2	13-5	13-7	13-9
375.00	13-10	14-1	14-3	14-6	14-9	14-11	15-2	15-4	15-7	15-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-4	2-4	2-4	2-5	2-5	2-6	2-6	2-6	2-7
175.00	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6
200.00	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-5	4-6	4-7
225.00	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-7	5-8	5-9
250.00	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1
275.00	7-8	7-9	7-10	8-0	8-1	8-2	8-4	8-5	8-6	8-7
300.00	9-1	9-3	9-4	9-6	9-8	9-9	9-11	10-0	10-1	10-3
325.00	10-8	10-10	11-0	11-2	11-4	11-6	11-7	11-9	11-11	12-0
350.00	12-4	12-7	12-9	12-11	13-2	13-4	13-6	13-8	13-9	13-11
375.00	14-2	14-5	14-8	14-10	15-1	15-3	15-6	15-8	15-10	16-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.87

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-6	4-6	4-7	4-7	4-8	4-8	4-8	4-9	4-9	4-9
225.00	5-8	5-9	5-9	5-10	5-10	5-11	5-11	6-0	6-0	6-1
250.00	7-0	7-1	7-2	7-2	7-3	7-4	7-4	7-5	7-5	7-6
275.00	8-6	8-7	8-8	8-8	8-9	8-10	8-11	8-11	9-0	9-1
300.00	10-2	10-3	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-9
325.00	11-11	12-0	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8
350.00	13-10	13-11	14-0	14-1	14-3	14-4	14-5	14-6	14-7	14-8
375.00	15-10	16-0	16-1	16-2	16-4	16-5	16-7	16-8	16-9	16-10
400.00	18-1	18-2	18-4	18-5	18-7	18-8	18-10	18-11	19-1	19-2
425.00	20-5	20-6	20-8	20-10	21-0	21-1	21-3	21-5	21-6	21-8
450.00	22-10	23-0	23-2	23-4	23-6	23-8	23-10	24-0	24-2	24-4
475.00	25-6	25-8	25-10	26-0	26-3	26-5	26-7	26-9	26-11	27-1
500.00	28-3	28-5	28-8	28-10	29-1	29-3	29-6	29-8	29-10	30-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-7	4-7	4-7	4-8	4-8	4-9	4-9	4-9	4-10	4-10
225.00	5-9	5-10	5-10	5-11	5-11	6-0	6-0	6-0	6-1	6-1
250.00	7-2	7-2	7-3	7-3	7-4	7-4	7-5	7-5	7-6	7-7
275.00	8-7	8-8	8-9	8-10	8-10	8-11	9-0	9-0	9-1	9-2
300.00	10-3	10-4	10-5	10-6	10-7	10-7	10-8	10-9	10-10	10-10
325.00	12-1	12-2	12-3	12-4	12-5	12-6	12-6	12-7	12-8	12-9
350.00	14-0	14-1	14-2	14-3	14-4	14-5	14-7	14-8	14-9	14-10
375.00	16-1	16-2	16-3	16-5	16-6	16-7	16-8	16-10	16-11	17-0
400.00	18-3	18-5	18-6	18-8	18-9	18-11	19-0	19-1	19-3	19-4
425.00	20-8	20-9	20-11	21-1	21-3	21-4	21-6	21-7	21-9	21-10
450.00	23-2	23-4	23-6	23-8	23-9	23-11	24-1	24-3	24-4	24-6
475.00	25-10	26-0	26-2	26-4	26-6	26-8	26-10	27-0	27-2	27-4
500.00	28-7	28-10	29-0	29-2	29-5	29-7	29-9	29-11	30-1	30-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.88

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-5	7-6	7-6	7-7	7-7	7-7	7-8	7-8	7-8	7-9
275.00	9-0	9-1	9-1	9-2	9-2	9-2	9-3	9-3	9-4	9-4
300.00	10-9	10-9	10-10	10-10	10-11	11-0	11-0	11-1	11-1	11-1
325.00	12-7	12-8	12-8	12-9	12-10	12-10	12-11	13-0	13-0	13-1
350.00	14-7	14-8	14-9	14-10	14-10	14-11	15-0	15-1	15-1	15-2
375.00	16-9	16-10	16-11	17-0	17-1	17-2	17-3	17-3	17-4	17-5
400.00	19-1	19-2	19-3	19-4	19-5	19-6	19-7	19-8	19-9	19-10
425.00	21-7	21-8	21-9	21-10	21-11	22-0	22-1	22-3	22-3	22-4
450.00	24-2	24-4	24-5	24-6	24-7	24-9	24-10	24-11	25-0	25-1
475.00	27-0	27-1	27-3	27-4	27-5	27-7	27-8	27-9	27-10	28-0
500.00	29-11	30-0	30-2	30-3	30-5	30-6	30-8	30-9	30-11	31-0
525.00	33-0	33-2	33-3	33-5	33-7	33-8	33-10	33-11	34-1	34-2
550.00	36-3	36-5	36-6	36-8	36-10	37-0	37-2	37-3	37-5	37-7
575.00	39-7	39-9	39-11	40-1	40-3	40-5	40-7	40-9	40-11	41-1
600.00	43-2	43-4	43-6	43-8	43-11	44-1	44-3	44-5	44-7	44-9
625.00	46-10	47-1	47-3	47-5	47-8	47-10	48-1	48-3	48-5	48-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-6	7-6	7-7	7-7	7-8	7-8	7-8	7-8	7-9	7-9
275.00	9-1	9-1	9-2	9-2	9-3	9-3	9-4	9-4	9-4	9-5
300.00	10-10	10-10	10-11	10-11	11-0	11-0	11-1	11-1	11-2	11-2
325.00	12-8	12-9	12-10	12-10	12-11	12-11	13-0	13-0	13-1	13-2
350.00	14-9	14-9	14-10	14-11	15-0	15-0	15-1	15-1	15-2	15-3
375.00	16-11	17-0	17-1	17-1	17-2	17-3	17-4	17-4	17-5	17-6
400.00	19-3	19-4	19-5	19-6	19-7	19-8	19-8	19-9	19-10	19-11
425.00	21-9	21-10	21-11	22-0	22-1	22-2	22-3	22-4	22-5	22-6
450.00	24-5	24-6	24-7	24-8	24-9	24-10	24-11	25-0	25-2	25-3
475.00	27-2	27-3	27-5	27-6	27-7	27-9	27-10	27-11	28-0	28-1
500.00	30-2	30-3	30-4	30-6	30-7	30-9	30-10	30-11	31-1	31-2
525.00	33-3	33-4	33-6	33-8	33-9	33-11	34-0	34-2	34-3	34-5
550.00	36-6	36-8	36-9	36-11	37-1	37-3	37-4	37-6	37-7	37-9
575.00	39-11	40-1	40-3	40-5	40-7	40-8	40-10	41-0	41-2	41-3
600.00	43-6	43-8	43-10	44-0	44-2	44-4	44-6	44-8	44-10	45-0
625.00	47-2	47-5	47-7	47-9	48-0	48-2	48-4	48-6	48-8	48-10

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SHEET 89 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.89

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.063	1.09	3500	1.09	3500*
0.0	0.00	0.00	0.00	0.197	0.08	2973	0.08	3041
30.0	0.00	0.00	0.00	0.197	0.10	2582	0.09	2703
40.0	0.00	0.00	0.00	0.197	0.10	2451	0.10	2587
50.0	0.00	0.00	0.00	0.197	0.11	2321	0.10	2470
60.0	0.00	0.00	0.00	0.197	0.11	2191	0.10	2352
70.0	0.00	0.00	0.00	0.197	0.12	2061	0.11	2233
80.0	0.00	0.00	0.00	0.197	0.13	1931	0.12	2112
90.0	0.00	0.00	0.00	0.197	0.14	1801	0.12	1991
100.0	0.00	0.00	0.00	0.197	0.15	1672	0.13	1868
110.0	0.00	0.00	0.00	0.197	0.16	1543	0.14	1745
120.0	0.00	0.00	0.00	0.197	0.17	1414	0.15	1620
130.0	0.00	0.00	0.00	0.197	0.19	1286	0.16	1496
167.0	0.00	0.00	0.00	0.197	0.28	883	0.24	1033
212.0	0.00	0.00	0.00	0.197	0.51	482	0.41	599

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.063	4.38	3500	4.38	3500*
0.0	0.00	0.00	0.00	0.197	0.69	1428	0.61	1621
30.0	0.00	0.00	0.00	0.197	0.92	1076	0.77	1279
40.0	0.00	0.00	0.00	0.197	1.02	967	0.84	1167
50.0	0.00	0.00	0.00	0.197	1.14	865	0.93	1059
60.0	0.00	0.00	0.00	0.197	1.28	771	1.03	955
70.0	0.00	0.00	0.00	0.197	1.43	687	1.15	856
80.0	0.00	0.00	0.00	0.197	1.60	615	1.29	765
90.0	0.00	0.00	0.00	0.197	1.76	560	1.44	683
100.0	0.00	0.00	0.00	0.197	1.92	513	1.61	611
110.0	0.00	0.00	0.00	0.197	2.09	473	1.80	549
120.0	0.00	0.00	0.00	0.197	2.25	438	1.99	496
130.0	0.00	0.00	0.00	0.197	2.42	408	2.16	457
167.0	0.00	0.00	0.00	0.197	3.00	328	2.75	359
212.0	0.00	0.00	0.00	0.197	3.65	270	3.41	289

* Design Condition

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SHEET 90 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.90

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.063	9.89	3500	9.89	3500*
0.0	0.00	0.00	0.00	0.197	5.84	380	5.38	413
30.0	0.00	0.00	0.00	0.197	6.44	345	6.01	370
40.0	0.00	0.00	0.00	0.197	6.63	335	6.21	358
50.0	0.00	0.00	0.00	0.197	6.80	327	6.40	347
60.0	0.00	0.00	0.00	0.197	6.96	319	6.60	337
70.0	0.00	0.00	0.00	0.197	7.13	312	6.79	327
80.0	0.00	0.00	0.00	0.197	7.28	305	6.97	319
90.0	0.00	0.00	0.00	0.197	7.44	299	7.15	311
100.0	0.00	0.00	0.00	0.197	7.59	293	7.33	303
110.0	0.00	0.00	0.00	0.197	7.74	287	7.48	297
120.0	0.00	0.00	0.00	0.197	7.89	282	7.63	291
130.0	0.00	0.00	0.00	0.197	8.04	277	7.78	286
167.0	0.00	0.00	0.00	0.197	8.56	260	8.31	267
212.0	0.00	0.00	0.00	0.197	9.15	243	8.92	249

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.063	17.64	3500	17.64	3500*
0.0	0.00	0.00	0.00	0.197	13.94	284	13.55	292
30.0	0.00	0.00	0.00	0.197	14.43	275	14.06	282
40.0	0.00	0.00	0.00	0.197	14.58	272	14.23	278
50.0	0.00	0.00	0.00	0.197	14.73	269	14.39	275
60.0	0.00	0.00	0.00	0.197	14.87	266	14.56	272
70.0	0.00	0.00	0.00	0.197	15.01	264	14.72	269
80.0	0.00	0.00	0.00	0.197	15.15	262	14.88	266
90.0	0.00	0.00	0.00	0.197	15.29	259	15.04	263
100.0	0.00	0.00	0.00	0.197	15.43	257	15.18	261
110.0	0.00	0.00	0.00	0.197	15.57	255	15.32	259
120.0	0.00	0.00	0.00	0.197	15.70	252	15.46	256
130.0	0.00	0.00	0.00	0.197	15.84	250	15.60	254
167.0	0.00	0.00	0.00	0.197	16.33	243	16.09	246
212.0	0.00	0.00	0.00	0.197	16.91	235	16.68	238

* Design Condition

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SHEET 91 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.91

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.063	27.68	3500	27.68	3500*
0.0	0.00	0.00	0.00	0.197	24.11	258	23.76	261
30.0	0.00	0.00	0.00	0.197	24.57	253	24.22	257
40.0	0.00	0.00	0.00	0.197	24.71	252	24.38	255
50.0	0.00	0.00	0.00	0.197	24.84	250	24.53	253
60.0	0.00	0.00	0.00	0.197	24.98	249	24.69	252
70.0	0.00	0.00	0.00	0.197	25.11	248	24.84	250
80.0	0.00	0.00	0.00	0.197	25.25	246	24.99	249
90.0	0.00	0.00	0.00	0.197	25.38	245	25.14	247
100.0	0.00	0.00	0.00	0.197	25.51	244	25.28	246
110.0	0.00	0.00	0.00	0.197	25.64	243	25.41	245
120.0	0.00	0.00	0.00	0.197	25.78	241	25.54	244
130.0	0.00	0.00	0.00	0.197	25.91	240	25.67	242
167.0	0.00	0.00	0.00	0.197	26.38	236	26.15	238
212.0	0.00	0.00	0.00	0.197	26.95	231	26.73	233

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.92

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
150.00	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
175.00	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.93

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5
125.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-8
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-7	0-7	0-8	0-9	0-9	0-11	1-0	1-1	1-3	1-5
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-10
225.00	0-11	1-0	1-1	1-2	1-4	1-5	1-8	1-10	2-1	2-3
250.00	1-1	1-2	1-4	1-5	1-7	1-10	2-0	2-3	2-6	2-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-6
125.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10
150.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
175.00	0-8	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-6	1-7
200.00	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-9	1-11	2-1
225.00	1-1	1-2	1-3	1-5	1-7	1-10	2-0	2-3	2-5	2-8
250.00	1-4	1-5	1-7	1-9	2-0	2-3	2-6	2-9	3-0	3-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.94

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-6	1-7	1-7	1-8	1-8	1-9	1-9	1-10	1-10
175.00	2-0	2-1	2-1	2-2	2-3	2-4	2-4	2-5	2-6	2-7
200.00	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4
225.00	3-3	3-5	3-6	3-7	3-9	3-10	3-11	4-0	4-1	4-2
250.00	4-0	4-2	4-4	4-5	4-7	4-9	4-10	5-0	5-1	5-2
275.00	4-10	5-1	5-3	5-5	5-7	5-8	5-10	6-0	6-2	6-3
300.00	5-10	6-0	6-2	6-5	6-7	6-9	7-0	7-2	7-4	7-6
325.00	6-10	7-1	7-3	7-6	7-9	8-0	8-2	8-5	8-7	8-9
350.00	7-11	8-2	8-5	8-9	9-0	9-3	9-6	9-9	10-0	10-2
375.00	9-1	9-5	9-8	10-0	10-4	10-7	10-11	11-2	11-5	11-8

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-7	1-8	1-8	1-9	1-9	1-10	1-10	1-11	1-11
175.00	2-1	2-2	2-3	2-4	2-4	2-5	2-6	2-6	2-7	2-8
200.00	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-4	3-5
225.00	3-6	3-7	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4
250.00	4-4	4-6	4-7	4-9	4-10	4-11	5-1	5-2	5-3	5-4
275.00	5-3	5-5	5-7	5-9	5-10	6-0	6-1	6-3	6-5	6-6
300.00	6-3	6-5	6-8	6-10	7-0	7-2	7-3	7-5	7-7	7-9
325.00	7-4	7-7	7-9	8-0	8-2	8-4	8-7	8-9	8-11	9-1
350.00	8-6	8-9	9-0	9-3	9-6	9-8	9-11	10-2	10-4	10-6
375.00	9-9	10-1	10-4	10-8	10-11	11-2	11-5	11-8	11-10	12-1

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SHEET 95 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.95

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-6	3-6	3-7	3-7	3-8	3-8	3-9	3-9	3-9	3-10
225.00	4-5	4-5	4-6	4-7	4-7	4-8	4-8	4-9	4-10	4-10
250.00	5-5	5-6	5-7	5-7	5-8	5-9	5-10	5-10	5-11	6-0
275.00	6-7	6-8	6-9	6-10	6-10	6-11	7-0	7-1	7-2	7-3
300.00	7-10	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7
325.00	9-2	9-3	9-5	9-6	9-7	9-9	9-10	9-11	10-0	10-1
350.00	10-8	10-9	10-11	11-0	11-2	11-3	11-5	11-6	11-7	11-9
375.00	12-2	12-4	12-6	12-8	12-9	12-11	13-1	13-3	13-4	13-6
400.00	13-11	14-1	14-3	14-5	14-7	14-9	14-11	15-0	15-2	15-4
425.00	15-8	15-11	16-1	16-3	16-5	16-7	16-10	17-0	17-2	17-4
450.00	17-7	17-10	18-0	18-3	18-5	18-8	18-10	19-1	19-3	19-5
475.00	19-7	19-10	20-1	20-4	20-6	20-9	21-0	21-3	21-5	21-8
500.00	21-9	22-0	22-3	22-6	22-9	23-0	23-3	23-6	23-9	24-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-7	3-7	3-8	3-8	3-9	3-9	3-9	3-10	3-10	3-11
225.00	4-6	4-7	4-7	4-8	4-8	4-9	4-9	4-10	4-11	4-11
250.00	5-7	5-8	5-8	5-9	5-10	5-10	5-11	6-0	6-0	6-1
275.00	6-9	6-10	6-11	6-11	7-0	7-1	7-2	7-3	7-3	7-4
300.00	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9
325.00	9-5	9-6	9-7	9-9	9-10	9-11	10-0	10-1	10-2	10-3
350.00	10-11	11-0	11-2	11-3	11-5	11-6	11-7	11-8	11-10	11-11
375.00	12-6	12-8	12-10	12-11	13-1	13-2	13-4	13-5	13-7	13-8
400.00	14-3	14-5	14-7	14-9	14-10	15-0	15-2	15-3	15-5	15-7
425.00	16-1	16-3	16-6	16-8	16-9	16-11	17-1	17-3	17-5	17-7
450.00	18-1	18-3	18-6	18-8	18-10	19-0	19-2	19-4	19-6	19-9
475.00	20-2	20-4	20-7	20-9	21-0	21-2	21-5	21-7	21-9	22-0
500.00	22-4	22-7	22-10	23-0	23-3	23-6	23-8	23-11	24-2	24-4

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SHEET 96 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.96

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-0	6-1	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4
275.00	7-3	7-4	7-4	7-5	7-5	7-6	7-7	7-7	7-8	7-8
300.00	8-8	8-8	8-9	8-10	8-10	8-11	9-0	9-0	9-1	9-2
325.00	10-2	10-3	10-3	10-4	10-5	10-6	10-6	10-7	10-8	10-9
350.00	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-4	12-4	12-5
375.00	13-6	13-7	13-8	13-9	13-10	13-11	14-0	14-1	14-2	14-3
400.00	15-5	15-6	15-7	15-8	15-9	15-11	16-0	16-1	16-2	16-3
425.00	17-5	17-6	17-7	17-9	17-10	17-11	18-0	18-2	18-3	18-4
450.00	19-6	19-7	19-9	19-10	20-0	20-1	20-3	20-4	20-6	20-7
475.00	21-9	21-10	22-0	22-2	22-3	22-5	22-7	22-8	22-10	22-11
500.00	24-1	24-3	24-5	24-6	24-8	24-10	25-0	25-2	25-3	25-5
525.00	26-7	26-9	26-11	27-1	27-3	27-5	27-7	27-9	27-11	28-0
550.00	29-2	29-4	29-6	29-8	29-11	30-1	30-3	30-5	30-7	30-9
575.00	31-10	32-1	32-3	32-6	32-8	32-11	33-1	33-3	33-6	33-8
600.00	34-8	34-11	35-2	35-5	35-7	35-10	36-0	36-3	36-5	36-8
625.00	37-8	37-11	38-2	38-5	38-8	38-11	39-1	39-4	39-7	39-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-1	6-2	6-2	6-2	6-3	6-3	6-4	6-4	6-4	6-5
275.00	7-4	7-5	7-5	7-6	7-6	7-7	7-7	7-8	7-8	7-9
300.00	8-9	8-10	8-11	8-11	9-0	9-0	9-1	9-1	9-2	9-3
325.00	10-4	10-4	10-5	10-6	10-6	10-7	10-8	10-8	10-9	10-10
350.00	11-11	12-0	12-1	12-2	12-3	12-3	12-4	12-5	12-6	12-7
375.00	13-9	13-10	13-11	13-11	14-0	14-1	14-2	14-3	14-4	14-5
400.00	15-7	15-8	15-10	15-11	16-0	16-1	16-2	16-3	16-4	16-5
425.00	17-7	17-9	17-10	17-11	18-0	18-2	18-3	18-4	18-5	18-6
450.00	19-9	19-11	20-0	20-1	20-3	20-4	20-5	20-7	20-8	20-9
475.00	22-0	22-2	22-4	22-5	22-6	22-8	22-9	22-11	23-0	23-2
500.00	24-5	24-7	24-9	24-10	25-0	25-1	25-3	25-5	25-6	25-8
525.00	26-11	27-1	27-3	27-5	27-7	27-8	27-10	28-0	28-2	28-3
550.00	29-7	29-9	29-11	30-1	30-3	30-5	30-7	30-9	30-11	31-1
575.00	32-4	32-6	32-9	32-11	33-1	33-3	33-5	33-7	33-9	33-11
600.00	35-2	35-5	35-8	35-10	36-0	36-3	36-5	36-7	36-10	37-0
625.00	38-3	38-5	38-8	38-11	39-1	39-4	39-6	39-9	39-11	40-2

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SHEET 97 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.97

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.399	0.5	1000	0.5	1000*
0	0	0	0	0.197	0.21	1161	0.21	1161
30	0	0	0	0.197	0.31	801	0.3	811
40	0	0	0	0.197	0.36	685	0.35	699
50	0	0	0	0.197	0.43	578	0.41	594
60	0	0	0	0.197	0.51	482	0.49	499
70	0	0	0	0.197	0.61	402	0.59	417
80	0	0	0	0.197	0.73	339	0.7	351
90	0	0	0	0.197	0.85	291	0.82	300
100	0	0	0	0.197	0.96	255	0.93	264
110	0	0	0	0.197	1.08	228	1.03	238
120	0	0	0	0.197	1.18	209	1.13	218
130	0	0	0	0.197	1.27	193	1.23	201
167	0	0	0	0.197	1.59	155	1.54	160
212	0	0	0	0.197	1.92	129	1.88	131

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.399	2	1000	2	1000*
0	0	0	0	0.197	1.05	941	1.04	945
30	0	0	0	0.197	1.47	668	1.45	679
40	0	0	0	0.197	1.65	598	1.62	609
50	0	0	0	0.197	1.83	538	1.8	548
60	0	0	0	0.197	2.02	488	1.99	496
70	0	0	0	0.197	2.21	446	2.18	453
80	0	0	0	0.197	2.4	411	2.37	417
90	0	0	0	0.197	2.58	382	2.55	386
100	0	0	0	0.197	2.76	357	2.74	360
110	0	0	0	0.197	2.94	336	2.9	340
120	0	0	0	0.197	3.11	318	3.05	323
130	0	0	0	0.197	3.26	303	3.2	308
167	0	0	0	0.197	3.77	262	3.71	266
212	0	0	0	0.197	4.33	228	4.27	231

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.98

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	4.5	1000	4.5	1000*
0	0	0	0	0.197	3.05	726	3.02	735
30	0	0	0	0.197	3.8	584	3.75	591
40	0	0	0	0.197	4.04	548	4	555
50	0	0	0	0.197	4.29	517	4.24	523
60	0	0	0	0.197	4.53	490	4.48	495
70	0	0	0	0.197	4.76	466	4.72	470
80	0	0	0	0.197	4.99	445	4.95	448
90	0	0	0	0.197	5.21	426	5.18	428
100	0	0	0	0.197	5.43	409	5.4	411
110	0	0	0	0.197	5.64	393	5.62	395
120	0	0	0	0.197	5.85	380	5.81	382
130	0	0	0	0.197	6.05	367	5.99	371
167	0	0	0	0.197	6.69	332	6.63	335
212	0	0	0	0.197	7.42	300	7.35	302

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	8	1000	8	1000*
0	0	0	0	0.197	6.38	618	6.32	624
30	0	0	0	0.197	7.23	546	7.17	550
40	0	0	0	0.197	7.5	526	7.45	530
50	0	0	0	0.197	7.77	508	7.72	511
60	0	0	0	0.197	8.03	491	7.98	494
70	0	0	0	0.197	8.29	476	8.25	479
80	0	0	0	0.197	8.54	462	8.5	464
90	0	0	0	0.197	8.79	449	8.75	451
100	0	0	0	0.197	9.03	437	9	439
110	0	0	0	0.197	9.26	426	9.24	427
120	0	0	0	0.197	9.5	416	9.46	417
130	0	0	0	0.197	9.73	406	9.67	408
167	0	0	0	0.197	10.47	377	10.4	380
212	0	0	0	0.197	11.31	349	11.24	352

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.99

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	12.51	1000	12.51	1000*
0	0	0	0	0.197	10.83	569	10.76	573
30	0	0	0	0.197	11.71	527	11.65	530
40	0	0	0	0.197	11.99	514	11.93	517
50	0	0	0	0.197	12.27	503	12.22	505
60	0	0	0	0.197	12.55	492	12.5	494
70	0	0	0	0.197	12.81	482	12.77	483
80	0	0	0	0.197	13.08	472	13.04	473
90	0	0	0	0.197	13.34	463	13.3	464
100	0	0	0	0.197	13.6	454	13.57	455
110	0	0	0	0.197	13.85	446	13.83	447
120	0	0	0	0.197	14.1	438	14.07	439
130	0	0	0	0.197	14.34	431	14.29	432
167	0	0	0	0.197	15.16	408	15.09	409
212	0	0	0	0.197	16.09	384	16.02	386

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6	0-7
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-10	0-11	1-0
125.00	0-5	0-6	0-7	0-8	0-9	0-11	1-1	1-3	1-5	1-7
150.00	0-7	0-8	0-10	0-11	1-1	1-4	1-7	1-10	2-1	2-4
175.00	0-10	0-11	1-1	1-3	1-6	1-10	2-2	2-6	2-10	3-2
200.00	1-1	1-3	1-5	1-8	2-0	2-4	2-10	3-3	3-9	4-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-7
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-10	1-0	1-1
125.00	0-5	0-6	0-7	0-8	0-10	0-11	1-2	1-4	1-6	1-8
150.00	0-7	0-8	0-10	1-0	1-2	1-5	1-8	1-11	2-2	2-5
175.00	0-10	0-11	1-1	1-4	1-7	1-11	2-3	2-7	2-11	3-4
200.00	1-1	1-3	1-5	1-8	2-1	2-5	2-11	3-5	3-10	4-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.101

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-8	0-9
125.00	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2
150.00	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6	1-8
175.00	1-0	1-1	1-3	1-5	1-6	1-8	1-10	1-11	2-1	2-3
200.00	1-4	1-5	1-7	1-10	2-0	2-2	2-4	2-7	2-9	2-11
225.00	1-8	1-10	2-1	2-3	2-6	2-9	3-0	3-3	3-6	3-8
250.00	2-0	2-3	2-6	2-10	3-1	3-5	3-8	4-0	4-3	4-6

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-8	0-9
125.00	0-6	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2
150.00	0-9	0-10	0-11	1-0	1-2	1-3	1-4	1-5	1-7	1-8
175.00	1-0	1-2	1-3	1-5	1-7	1-8	1-10	2-0	2-1	2-3
200.00	1-4	1-6	1-8	1-10	2-0	2-3	2-5	2-7	2-9	2-11
225.00	1-8	1-10	2-1	2-4	2-7	2-10	3-0	3-3	3-6	3-9
250.00	2-1	2-4	2-7	2-10	3-2	3-5	3-9	4-0	4-4	4-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.102

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-4	1-5
175.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
200.00	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-4	2-5	2-6
225.00	2-0	2-1	2-3	2-5	2-6	2-8	2-9	2-11	3-0	3-2
250.00	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9	3-11
275.00	2-11	3-2	3-4	3-7	3-9	4-0	4-2	4-4	4-6	4-9
300.00	3-6	3-9	4-0	4-3	4-6	4-9	4-11	5-2	5-5	5-7
325.00	4-1	4-5	4-8	5-0	5-3	5-6	5-10	6-1	6-4	6-7
350.00	4-9	5-1	5-5	5-9	6-1	6-5	6-9	7-1	7-4	7-8
375.00	5-6	5-10	6-3	6-8	7-0	7-5	7-9	8-1	8-5	8-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5
175.00	1-2	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-11
200.00	1-7	1-8	1-10	1-11	2-0	2-1	2-3	2-4	2-5	2-6
225.00	2-0	2-2	2-3	2-5	2-7	2-8	2-10	2-11	3-1	3-2
250.00	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-7	3-9	3-11
275.00	3-0	3-2	3-5	3-7	3-10	4-0	4-2	4-5	4-7	4-9
300.00	3-7	3-10	4-1	4-3	4-6	4-9	5-0	5-3	5-5	5-8
325.00	4-2	4-5	4-9	5-0	5-4	5-7	5-10	6-1	6-4	6-7
350.00	4-10	5-2	5-6	5-10	6-2	6-6	6-9	7-1	7-5	7-8
375.00	5-7	5-11	6-4	6-8	7-1	7-5	7-10	8-2	8-6	8-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.103

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-9	1-10	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-4
225.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
250.00	2-8	2-10	2-11	3-0	3-1	3-3	3-4	3-5	3-6	3-7
275.00	3-3	3-5	3-6	3-8	3-9	3-11	4-0	4-2	4-3	4-4
300.00	3-11	4-0	4-2	4-4	4-6	4-8	4-9	4-11	5-1	5-2
325.00	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-1
350.00	5-3	5-6	5-8	5-11	6-1	6-4	6-6	6-8	6-11	7-1
375.00	6-1	6-4	6-7	6-9	7-0	7-3	7-6	7-8	7-11	8-1
400.00	6-11	7-2	7-5	7-9	8-0	8-3	8-6	8-9	9-0	9-3
425.00	7-9	8-1	8-5	8-9	9-0	9-4	9-7	9-11	10-2	10-5
450.00	8-9	9-1	9-5	9-9	10-1	10-5	10-9	11-1	11-5	11-8
475.00	9-9	10-1	10-6	10-11	11-3	11-8	12-0	12-4	12-8	13-0
500.00	10-9	11-3	11-8	12-1	12-6	12-11	13-3	13-8	14-1	14-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-9	1-10	1-11	1-11	2-0	2-1	2-2	2-2	2-3	2-4
225.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
250.00	2-9	2-10	2-11	3-0	3-2	3-3	3-4	3-5	3-6	3-7
275.00	3-3	3-5	3-7	3-8	3-10	3-11	4-0	4-2	4-3	4-5
300.00	3-11	4-1	4-3	4-4	4-6	4-8	4-10	4-11	5-1	5-3
325.00	4-7	4-9	4-11	5-2	5-4	5-6	5-8	5-10	6-0	6-1
350.00	5-4	5-6	5-9	5-11	6-2	6-4	6-6	6-9	6-11	7-1
375.00	6-1	6-4	6-7	6-10	7-1	7-3	7-6	7-9	7-11	8-2
400.00	6-11	7-3	7-6	7-9	8-0	8-3	8-6	8-9	9-0	9-3
425.00	7-10	8-2	8-6	8-9	9-1	9-4	9-8	9-11	10-2	10-6
450.00	8-10	9-2	9-6	9-10	10-2	10-6	10-10	11-1	11-5	11-9
475.00	9-10	10-2	10-7	11-0	11-4	11-8	12-1	12-5	12-9	13-1
500.00	10-10	11-4	11-9	12-2	12-7	12-11	13-4	13-9	14-1	14-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.104

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-4	3-5	3-5
275.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
300.00	4-1	4-2	4-4	4-5	4-6	4-7	4-8	4-9	4-11	5-0
325.00	4-10	4-11	5-0	5-2	5-3	5-5	5-6	5-7	5-9	5-10
350.00	5-7	5-8	5-10	6-0	6-1	6-3	6-5	6-6	6-8	6-9
375.00	6-5	6-7	6-9	6-10	7-0	7-2	7-4	7-6	7-8	7-9
400.00	7-3	7-5	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-10
425.00	8-2	8-5	8-7	8-10	9-0	9-3	9-5	9-7	9-10	10-0
450.00	9-2	9-5	9-8	9-11	10-1	10-4	10-7	10-9	11-0	11-2
475.00	10-3	10-6	10-9	11-0	11-3	11-6	11-9	12-0	12-3	12-6
500.00	11-4	11-8	11-11	12-3	12-6	12-9	13-0	13-4	13-7	13-10
525.00	12-6	12-10	13-2	13-6	13-9	14-1	14-5	14-8	15-0	15-3
550.00	13-9	14-1	14-5	14-9	15-1	15-5	15-9	16-1	16-5	16-9
575.00	15-0	15-5	15-9	16-2	16-6	16-11	17-3	17-7	17-11	18-3
600.00	16-4	16-9	17-2	17-7	18-0	18-5	18-9	19-2	19-7	19-11
625.00	17-9	18-2	18-8	19-1	19-6	20-0	20-5	20-10	21-3	21-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-10	2-11	3-0	3-1	3-2	3-2	3-3	3-4	3-5	3-6
275.00	3-5	3-6	3-8	3-9	3-10	3-10	3-11	4-0	4-1	4-2
300.00	4-1	4-3	4-4	4-5	4-6	4-7	4-8	4-10	4-11	5-0
325.00	4-10	4-11	5-1	5-2	5-4	5-5	5-6	5-8	5-9	5-10
350.00	5-7	5-9	5-10	6-0	6-2	6-3	6-5	6-6	6-8	6-9
375.00	6-5	6-7	6-9	6-11	7-1	7-2	7-4	7-6	7-8	7-9
400.00	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-10
425.00	8-3	8-6	8-8	8-10	9-1	9-3	9-5	9-8	9-10	10-0
450.00	9-3	9-6	9-9	9-11	10-2	10-5	10-7	10-10	11-0	11-3
475.00	10-4	10-7	10-10	11-1	11-4	11-7	11-10	12-0	12-3	12-6
500.00	11-5	11-9	12-0	12-3	12-7	12-10	13-1	13-4	13-7	13-10
525.00	12-7	12-11	13-3	13-6	13-10	14-2	14-5	14-9	15-0	15-3
550.00	13-10	14-2	14-6	14-10	15-2	15-6	15-10	16-2	16-5	16-9
575.00	15-1	15-6	15-10	16-3	16-7	16-11	17-4	17-8	18-0	18-4
600.00	16-5	16-10	17-3	17-8	18-1	18-6	18-10	19-3	19-7	19-11
625.00	17-10	18-4	18-9	19-2	19-7	20-0	20-5	20-10	21-3	21-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.105

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	0.33	1500	0.33	1500*
0	0	0	0	0.197	0.14	1705	0.14	1705
30	0	0	0	0.197	0.18	1335	0.18	1345
40	0	0	0	0.197	0.2	1208	0.2	1225
50	0	0	0	0.197	0.23	1082	0.22	1104
60	0	0	0	0.197	0.26	957	0.25	984
70	0	0	0	0.197	0.29	836	0.28	866
80	0	0	0	0.197	0.34	719	0.33	751
90	0	0	0	0.197	0.4	608	0.38	641
100	0	0	0	0.197	0.48	509	0.46	539
110	0	0	0	0.197	0.58	424	0.55	450
120	0	0	0	0.197	0.69	356	0.64	384
130	0	0	0	0.197	0.8	307	0.74	335
167	0	0	0	0.197	1.18	209	1.11	223
212	0	0	0	0.197	1.57	157	1.51	164

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	1.33	1500	1.33	1500*
0	0	0	0	0.197	0.62	1599	0.62	1599
30	0	0	0	0.197	0.79	1243	0.78	1257
40	0	0	0	0.197	0.87	1127	0.86	1146
50	0	0	0	0.197	0.97	1016	0.95	1038
60	0	0	0	0.197	1.08	910	1.05	935
70	0	0	0	0.197	1.21	813	1.18	838
80	0	0	0	0.197	1.36	724	1.32	748
90	0	0	0	0.197	1.53	646	1.47	668
100	0	0	0	0.197	1.7	579	1.65	598
110	0	0	0	0.197	1.89	522	1.83	538
120	0	0	0	0.197	2.08	474	2.02	487
130	0	0	0	0.197	2.27	435	2.19	450
167	0	0	0	0.197	2.88	343	2.78	355
212	0	0	0	0.197	3.53	279	3.44	287

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	3	1500	3	1500*
0	0	0	0	0.197	1.54	1437	1.54	1439
30	0	0	0	0.197	1.98	1120	1.95	1137
40	0	0	0	0.197	2.16	1026	2.12	1045
50	0	0	0	0.197	2.36	940	2.31	960
60	0	0	0	0.197	2.57	861	2.52	881
70	0	0	0	0.197	2.8	791	2.74	810
80	0	0	0	0.197	3.04	729	2.97	746
90	0	0	0	0.197	3.29	675	3.22	689
100	0	0	0	0.197	3.54	627	3.46	640
110	0	0	0	0.197	3.78	586	3.72	597
120	0	0	0	0.197	4.03	550	3.97	559
130	0	0	0	0.197	4.28	519	4.21	527
167	0	0	0	0.197	5.08	437	4.97	446
212	0	0	0	0.197	5.94	374	5.83	381

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	5.33	1500	5.33	1500*
0	0	0	0	0.197	3.15	1251	3.13	1261
30	0	0	0	0.197	3.91	1007	3.85	1024
40	0	0	0	0.197	4.19	940	4.12	956
50	0	0	0	0.197	4.49	879	4.41	894
60	0	0	0	0.197	4.78	824	4.7	839
70	0	0	0	0.197	5.08	776	5	789
80	0	0	0	0.197	5.38	732	5.3	744
90	0	0	0	0.197	5.69	694	5.6	704
100	0	0	0	0.197	5.98	659	5.9	668
110	0	0	0	0.197	6.28	628	6.2	636
120	0	0	0	0.197	6.57	600	6.5	607
130	0	0	0	0.197	6.85	576	6.79	581
167	0	0	0	0.197	7.82	505	7.7	512
212	0	0	0	0.197	8.84	447	8.72	453

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.107

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	8.33	1500	8.33	1500*
0	0	0	0	0.197	5.63	1094	5.56	1107
30	0	0	0	0.197	6.66	926	6.56	939
40	0	0	0	0.197	7.01	879	6.91	892
50	0	0	0	0.197	7.36	838	7.26	849
60	0	0	0	0.197	7.7	800	7.6	810
70	0	0	0	0.197	8.05	765	7.95	775
80	0	0	0	0.197	8.39	734	8.3	743
90	0	0	0	0.197	8.73	706	8.64	714
100	0	0	0	0.197	9.06	680	8.97	687
110	0	0	0	0.197	9.39	656	9.31	662
120	0	0	0	0.197	9.71	635	9.64	640
130	0	0	0	0.197	10.03	615	9.96	619
167	0	0	0	0.197	11.12	555	11	561
212	0	0	0	0.197	12.28	503	12.16	508

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-5	0-7
125.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-10
150.00	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-3
175.00	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-2	1-5	1-8
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-10	2-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-8	0-9	0-11
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-4
175.00	0-6	0-7	0-7	0-8	0-9	0-11	1-1	1-3	1-6	1-9
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-11	2-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.109

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
125.00	0-3	0-4	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-9
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-5
200.00	0-9	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-8	1-10
225.00	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-10	2-1	2-4
250.00	1-1	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-7	2-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
150.00	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1
175.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-5
200.00	0-9	0-10	0-10	1-0	1-1	1-3	1-4	1-6	1-8	1-11
225.00	0-11	1-0	1-1	1-3	1-4	1-6	1-9	1-11	2-2	2-5
250.00	1-2	1-3	1-4	1-6	1-8	1-11	2-2	2-5	2-8	2-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.110

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11
175.00	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3
200.00	0-10	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6	1-8
225.00	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-10	1-11	2-1
250.00	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-5	2-7
275.00	1-6	1-8	1-9	1-11	2-1	2-4	2-6	2-8	2-11	3-1
300.00	1-10	1-11	2-1	2-4	2-6	2-9	3-0	3-3	3-6	3-9
325.00	2-1	2-3	2-6	2-9	2-11	3-3	3-6	3-9	4-1	4-4
350.00	2-5	2-8	2-11	3-2	3-5	3-9	4-1	4-5	4-9	5-1
375.00	2-10	3-1	3-4	3-7	3-11	4-3	4-8	5-0	5-5	5-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	0-11
175.00	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3
200.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8
225.00	1-0	1-1	1-3	1-4	1-5	1-7	1-9	1-10	2-0	2-2
250.00	1-3	1-4	1-6	1-8	1-9	1-11	2-1	2-3	2-5	2-8
275.00	1-6	1-8	1-10	2-0	2-2	2-4	2-7	2-9	3-0	3-2
300.00	1-10	2-0	2-2	2-4	2-7	2-10	3-1	3-3	3-6	3-9
325.00	2-2	2-4	2-6	2-9	3-0	3-3	3-7	3-10	4-2	4-5
350.00	2-6	2-8	2-11	3-3	3-6	3-10	4-2	4-6	4-10	5-2
375.00	2-10	3-1	3-4	3-8	4-0	4-5	4-9	5-2	5-6	5-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 111 OF 241

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.111

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
225.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	2-0
250.00	1-5	1-6	1-7	1-9	1-10	1-11	2-1	2-2	2-4	2-5
275.00	1-8	1-10	1-11	2-1	2-3	2-4	2-6	2-8	2-9	2-11
300.00	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6
325.00	2-4	2-7	2-9	2-11	3-1	3-4	3-6	3-8	3-11	4-1
350.00	2-9	2-11	3-2	3-4	3-7	3-10	4-1	4-3	4-6	4-9
375.00	3-2	3-5	3-7	3-10	4-2	4-5	4-8	4-11	5-2	5-5
400.00	3-7	3-10	4-1	4-5	4-8	5-0	5-4	5-7	5-11	6-2
425.00	4-1	4-4	4-8	5-0	5-4	5-8	6-0	6-4	6-8	7-0
450.00	4-7	4-10	5-3	5-7	5-11	6-4	6-8	7-1	7-6	7-10
475.00	5-1	5-5	5-10	6-3	6-8	7-1	7-6	7-11	8-4	8-9
500.00	5-7	6-0	6-5	6-11	7-4	7-10	8-3	8-9	9-3	9-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7
225.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-0
250.00	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-3	2-4	2-5
275.00	1-9	1-10	2-0	2-1	2-3	2-5	2-7	2-8	2-10	3-0
300.00	2-1	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6
325.00	2-5	2-7	2-9	3-0	3-2	3-4	3-7	3-9	3-11	4-2
350.00	2-9	3-0	3-3	3-5	3-8	3-11	4-1	4-4	4-7	4-10
375.00	3-2	3-5	3-8	3-11	4-2	4-6	4-9	5-0	5-3	5-6
400.00	3-8	3-11	4-2	4-6	4-9	5-1	5-5	5-8	6-0	6-3
425.00	4-1	4-5	4-9	5-1	5-5	5-9	6-1	6-5	6-9	7-1
450.00	4-7	4-11	5-4	5-8	6-1	6-5	6-10	7-2	7-7	7-11
475.00	5-2	5-6	5-11	6-4	6-9	7-2	7-7	8-0	8-5	8-10
500.00	5-8	6-1	6-7	7-0	7-6	7-11	8-5	8-11	9-4	9-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.112

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
275.00	1-11	2-0	2-1	2-2	2-4	2-5	2-6	2-7	2-9	2-10
300.00	2-3	2-4	2-6	2-7	2-9	2-10	3-0	3-1	3-3	3-4
325.00	2-8	2-9	2-11	3-1	3-3	3-4	3-6	3-8	3-9	3-11
350.00	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-7
375.00	3-6	3-8	3-11	4-1	4-3	4-6	4-8	4-10	5-1	5-3
400.00	4-0	4-2	4-5	4-8	4-10	5-1	5-4	5-6	5-9	5-11
425.00	4-6	4-9	5-0	5-3	5-6	5-9	6-0	6-3	6-6	6-9
450.00	5-0	5-4	5-7	5-11	6-2	6-5	6-9	7-0	7-3	7-6
475.00	5-7	5-11	6-3	6-7	6-10	7-2	7-6	7-10	8-1	8-5
500.00	6-3	6-7	6-11	7-3	7-7	7-11	8-4	8-8	9-0	9-4
525.00	6-10	7-3	7-7	8-0	8-5	8-9	9-2	9-6	9-11	10-3
550.00	7-6	7-11	8-4	8-9	9-2	9-7	10-0	10-5	10-10	11-3
575.00	8-3	8-8	9-2	9-7	10-1	10-6	11-0	11-5	11-10	12-4
600.00	9-0	9-5	9-11	10-5	10-11	11-5	11-11	12-5	12-11	13-5
625.00	9-9	10-3	10-10	11-4	11-11	12-5	13-0	13-6	14-0	14-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
275.00	1-11	2-0	2-1	2-3	2-4	2-5	2-6	2-8	2-9	2-10
300.00	2-3	2-5	2-6	2-8	2-9	2-11	3-0	3-2	3-3	3-5
325.00	2-8	2-10	3-0	3-1	3-3	3-5	3-7	3-8	3-10	4-0
350.00	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-7
375.00	3-7	3-9	3-11	4-2	4-4	4-6	4-9	4-11	5-1	5-3
400.00	4-0	4-3	4-6	4-8	4-11	5-2	5-4	5-7	5-10	6-0
425.00	4-7	4-10	5-1	5-4	5-7	5-10	6-1	6-4	6-7	6-9
450.00	5-1	5-5	5-8	5-11	6-3	6-6	6-10	7-1	7-4	7-7
475.00	5-8	6-0	6-4	6-8	6-11	7-3	7-7	7-11	8-2	8-6
500.00	6-4	6-8	7-0	7-4	7-8	8-1	8-5	8-9	9-1	9-5
525.00	6-11	7-4	7-9	8-1	8-6	8-11	9-3	9-8	10-0	10-4
550.00	7-8	8-1	8-6	8-11	9-4	9-9	10-2	10-7	11-0	11-4
575.00	8-4	8-10	9-3	9-9	10-2	10-8	11-1	11-7	12-0	12-5
600.00	9-1	9-7	10-1	10-7	11-1	11-7	12-1	12-7	13-1	13-6
625.00	9-10	10-5	10-11	11-6	12-0	12-7	13-1	13-8	14-2	14-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.113

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	0.25	1999	0.25	2000*
0	0	0	0	0.197	0.11	2217	0.11	2217
30	0	0	0	0.197	0.13	1848	0.13	1861
40	0	0	0	0.197	0.14	1719	0.14	1741
50	0	0	0	0.197	0.15	1589	0.15	1620
60	0	0	0	0.197	0.17	1461	0.16	1498
70	0	0	0	0.197	0.18	1332	0.18	1376
80	0	0	0	0.197	0.2	1205	0.2	1253
90	0	0	0	0.197	0.23	1079	0.22	1131
100	0	0	0	0.197	0.26	955	0.24	1009
110	0	0	0	0.197	0.3	833	0.28	889
120	0	0	0	0.197	0.34	716	0.32	771
130	0	0	0	0.197	0.41	606	0.37	659
167	0	0	0	0.197	0.73	336	0.65	382
212	0	0	0	0.197	1.19	207	1.09	226

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	1	2000	1	2000*
0	0	0	0	0.197	0.46	2157	0.46	2157
30	0	0	0	0.197	0.55	1792	0.54	1807
40	0	0	0	0.197	0.59	1667	0.58	1690
50	0	0	0	0.197	0.64	1543	0.63	1573
60	0	0	0	0.197	0.69	1420	0.68	1456
70	0	0	0	0.197	0.76	1300	0.73	1340
80	0	0	0	0.197	0.83	1182	0.8	1226
90	0	0	0	0.197	0.92	1069	0.88	1114
100	0	0	0	0.197	1.03	960	0.98	1006
110	0	0	0	0.197	1.15	859	1.09	903
120	0	0	0	0.197	1.29	766	1.22	807
130	0	0	0	0.197	1.44	682	1.37	719
167	0	0	0	0.197	2.07	476	1.95	505
212	0	0	0	0.197	2.8	352	2.67	369

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	2.25	2000	2.25	2000*
0	0	0	0	0.197	1.08	2061	1.08	2061
30	0	0	0	0.197	1.3	1704	1.29	1723
40	0	0	0	0.197	1.4	1586	1.37	1612
50	0	0	0	0.197	1.51	1471	1.48	1503
60	0	0	0	0.197	1.63	1359	1.59	1395
70	0	0	0	0.197	1.77	1252	1.72	1290
80	0	0	0	0.197	1.93	1150	1.86	1189
90	0	0	0	0.197	2.1	1054	2.03	1093
100	0	0	0	0.197	2.3	965	2.21	1003
110	0	0	0	0.197	2.51	884	2.41	919
120	0	0	0	0.197	2.73	811	2.63	843
130	0	0	0	0.197	2.97	747	2.86	775
167	0	0	0	0.197	3.84	577	3.7	599
212	0	0	0	0.197	4.8	462	4.65	477

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	4	2000	4	2000*
0	0	0	0	0.197	2.04	1935	2.04	1935
30	0	0	0	0.197	2.47	1596	2.43	1619
40	0	0	0	0.197	2.64	1490	2.6	1518
50	0	0	0	0.197	2.84	1389	2.78	1420
60	0	0	0	0.197	3.05	1293	2.97	1326
70	0	0	0	0.197	3.28	1202	3.19	1236
80	0	0	0	0.197	3.53	1118	3.42	1151
90	0	0	0	0.197	3.79	1040	3.68	1072
100	0	0	0	0.197	4.07	970	3.94	999
110	0	0	0	0.197	4.35	906	4.23	933
120	0	0	0	0.197	4.65	848	4.52	873
130	0	0	0	0.197	4.95	797	4.82	819
167	0	0	0	0.197	6.03	654	5.88	671
212	0	0	0	0.197	7.18	549	7.01	562

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.115

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	6.24	2000	6.24	2000*
0	0	0	0	0.197	3.45	1783	3.44	1792
30	0	0	0	0.197	4.15	1484	4.08	1509
40	0	0	0	0.197	4.42	1394	4.33	1421
50	0	0	0	0.197	4.7	1309	4.6	1338
60	0	0	0	0.197	5.01	1230	4.89	1259
70	0	0	0	0.197	5.32	1157	5.19	1186
80	0	0	0	0.197	5.65	1090	5.51	1118
90	0	0	0	0.197	5.99	1029	5.84	1055
100	0	0	0	0.197	6.33	973	6.18	997
110	0	0	0	0.197	6.68	923	6.53	944
120	0	0	0	0.197	7.03	877	6.88	896
130	0	0	0	0.197	7.38	835	7.23	852
167	0	0	0	0.197	8.64	713	8.48	727
212	0	0	0	0.197	9.96	619	9.78	630

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.116

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5
150.00	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-7
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
200.00	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	1-0	1-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-6
150.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-11
200.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.117

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5
150.00	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-7
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
200.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
225.00	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-3	1-5
250.00	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
150.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-11
200.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2
225.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5
250.00	0-10	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.118

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
175.00	0-5	0-5	0-6	0-6	0-6	0-7	0-8	0-8	0-9	0-10
200.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
225.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
250.00	0-10	0-11	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-8
275.00	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-10	2-0
300.00	1-2	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-3	2-5
325.00	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-5	2-7	2-10
350.00	1-8	1-9	1-10	2-0	2-2	2-4	2-6	2-9	3-0	3-3
375.00	1-11	2-0	2-2	2-4	2-6	2-8	2-11	3-2	3-5	3-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8
175.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10
200.00	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1
225.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5
250.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9
275.00	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-1
300.00	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-1	2-4	2-6
325.00	1-5	1-6	1-8	1-9	1-11	2-1	2-3	2-6	2-8	2-11
350.00	1-8	1-9	1-11	2-1	2-3	2-5	2-7	2-10	3-2	3-5
375.00	1-11	2-0	2-2	2-4	2-7	2-9	3-0	3-3	3-7	3-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.119

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1
225.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4
250.00	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-8
275.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	2-0
300.00	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-1	2-3	2-5
325.00	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-5	2-7	2-9
350.00	1-9	1-10	2-0	2-1	2-3	2-5	2-7	2-10	3-0	3-3
375.00	2-0	2-2	2-3	2-5	2-7	2-10	3-0	3-3	3-6	3-9
400.00	2-3	2-5	2-7	2-9	3-0	3-2	3-5	3-8	3-11	4-3
425.00	2-7	2-9	2-11	3-2	3-4	3-7	3-10	4-2	4-5	4-9
450.00	2-11	3-1	3-3	3-6	3-9	4-0	4-4	4-8	5-0	5-4
475.00	3-3	3-5	3-8	3-11	4-2	4-6	4-10	5-2	5-7	6-0
500.00	3-7	3-10	4-1	4-4	4-8	5-0	5-4	5-9	6-2	6-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-1
225.00	0-9	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-5
250.00	0-11	1-0	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-8
275.00	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-9	1-11	2-1
300.00	1-4	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-3	2-5
325.00	1-6	1-8	1-9	1-10	2-0	2-2	2-4	2-6	2-8	2-10
350.00	1-9	1-11	2-0	2-2	2-4	2-6	2-8	2-11	3-1	3-4
375.00	2-0	2-2	2-4	2-6	2-8	2-11	3-1	3-4	3-7	3-10
400.00	2-4	2-6	2-8	2-10	3-1	3-3	3-6	3-9	4-1	4-4
425.00	2-7	2-9	3-0	3-2	3-5	3-8	4-0	4-3	4-7	4-11
450.00	2-11	3-1	3-4	3-7	3-10	4-2	4-6	4-10	5-2	5-6
475.00	3-3	3-6	3-9	4-0	4-4	4-7	5-0	5-4	5-9	6-2
500.00	3-7	3-10	4-2	4-5	4-9	5-1	5-6	5-11	6-4	6-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.120

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
275.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	2-0
300.00	1-5	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-3	2-4
325.00	1-8	1-9	1-10	1-11	2-1	2-2	2-4	2-6	2-7	2-9
350.00	1-11	2-0	2-1	2-3	2-5	2-7	2-8	2-10	3-0	3-2
375.00	2-2	2-4	2-5	2-7	2-9	2-11	3-1	3-3	3-6	3-8
400.00	2-6	2-7	2-9	2-11	3-2	3-4	3-6	3-9	3-11	4-2
425.00	2-9	2-11	3-2	3-4	3-6	3-9	4-0	4-3	4-6	4-9
450.00	3-1	3-4	3-6	3-9	4-0	4-2	4-6	4-9	5-0	5-3
475.00	3-6	3-8	3-11	4-2	4-5	4-8	5-0	5-3	5-7	5-11
500.00	3-10	4-1	4-4	4-7	4-11	5-2	5-6	5-10	6-2	6-6
525.00	4-3	4-6	4-9	5-1	5-5	5-9	6-1	6-5	6-10	7-2
550.00	4-8	4-11	5-3	5-7	5-11	6-3	6-8	7-1	7-6	7-11
575.00	5-1	5-5	5-9	6-1	6-6	6-10	7-3	7-9	8-2	8-8
600.00	5-6	5-11	6-3	6-8	7-1	7-6	7-11	8-5	8-11	9-5
625.00	6-0	6-5	6-9	7-2	7-8	8-1	8-7	9-2	9-8	10-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
275.00	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-0
300.00	1-5	1-6	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-5
325.00	1-8	1-9	1-10	2-0	2-1	2-3	2-5	2-6	2-8	2-10
350.00	1-11	2-0	2-2	2-4	2-5	2-7	2-9	2-11	3-1	3-3
375.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-7	3-9
400.00	2-6	2-8	2-10	3-0	3-2	3-5	3-7	3-10	4-1	4-3
425.00	2-10	3-0	3-2	3-5	3-7	3-10	4-1	4-4	4-7	4-10
450.00	3-2	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-2	5-5
475.00	3-6	3-9	4-0	4-3	4-6	4-10	5-1	5-5	5-9	6-0
500.00	3-11	4-2	4-5	4-8	5-0	5-4	5-8	6-0	6-4	6-8
525.00	4-4	4-7	4-10	5-2	5-6	5-10	6-3	6-7	7-0	7-4
550.00	4-9	5-0	5-4	5-8	6-1	6-5	6-10	7-3	7-8	8-1
575.00	5-2	5-6	5-10	6-3	6-7	7-0	7-6	7-11	8-4	8-10
600.00	5-7	6-0	6-4	6-9	7-2	7-8	8-2	8-7	9-1	9-7
625.00	6-1	6-6	6-11	7-4	7-10	8-4	8-10	9-4	9-11	10-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.121

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	0.2	2454	0.2	2500*
0	0	0	0	0.197	0.09	2701	0.09	2717
30	0	0	0	0.197	0.11	2310	0.1	2371
40	0	0	0	0.197	0.11	2180	0.11	2253
50	0	0	0	0.197	0.12	2050	0.12	2134
60	0	0	0	0.197	0.13	1920	0.12	2014
70	0	0	0	0.197	0.14	1790	0.13	1893
80	0	0	0	0.197	0.15	1661	0.14	1771
90	0	0	0	0.197	0.16	1532	0.15	1648
100	0	0	0	0.197	0.18	1403	0.16	1525
110	0	0	0	0.197	0.19	1275	0.18	1401
120	0	0	0	0.197	0.21	1148	0.19	1276
130	0	0	0	0.197	0.24	1023	0.21	1152
167	0	0	0	0.197	0.4	623	0.34	722
212	0	0	0	0.197	0.77	320	0.63	388

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	0.81	2460	0.8	2500*
0	0	0	0	0.197	0.37	2664	0.37	2680
30	0	0	0	0.197	0.43	2277	0.42	2336
40	0	0	0	0.197	0.46	2149	0.44	2219
50	0	0	0	0.197	0.49	2021	0.47	2102
60	0	0	0	0.197	0.52	1894	0.5	1984
70	0	0	0	0.197	0.56	1768	0.53	1865
80	0	0	0	0.197	0.6	1642	0.56	1746
90	0	0	0	0.197	0.65	1518	0.61	1627
100	0	0	0	0.197	0.71	1396	0.65	1508
110	0	0	0	0.197	0.77	1276	0.71	1390
120	0	0	0	0.197	0.85	1159	0.77	1273
130	0	0	0	0.197	0.94	1047	0.85	1158
167	0	0	0	0.197	1.39	707	1.26	780
212	0	0	0	0.197	2.09	471	1.89	521

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.122

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	1.82	2469	1.8	2500*
0	0	0	0	0.197	0.85	2603	0.85	2619
30	0	0	0	0.197	1	2224	0.97	2279
40	0	0	0	0.197	1.06	2099	1.02	2165
50	0	0	0	0.197	1.12	1976	1.08	2051
60	0	0	0	0.197	1.2	1853	1.14	1936
70	0	0	0	0.197	1.28	1733	1.22	1821
80	0	0	0	0.197	1.37	1614	1.3	1707
90	0	0	0	0.197	1.48	1498	1.39	1595
100	0	0	0	0.197	1.6	1386	1.49	1483
110	0	0	0	0.197	1.74	1277	1.61	1374
120	0	0	0	0.197	1.89	1174	1.75	1269
130	0	0	0	0.197	2.06	1076	1.9	1167
167	0	0	0	0.197	2.82	787	2.62	845
212	0	0	0	0.197	3.78	587	3.54	627

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	3.22	2479	3.2	2500*
0	0	0	0	0.197	1.56	2521	1.55	2535
30	0	0	0	0.197	1.83	2154	1.79	2204
40	0	0	0	0.197	1.94	2034	1.88	2094
50	0	0	0	0.197	2.06	1916	1.99	1983
60	0	0	0	0.197	2.19	1801	2.1	1874
70	0	0	0	0.197	2.33	1689	2.23	1766
80	0	0	0	0.197	2.49	1580	2.37	1660
90	0	0	0	0.197	2.67	1474	2.53	1555
100	0	0	0	0.197	2.87	1374	2.71	1454
110	0	0	0	0.197	3.08	1278	2.9	1357
120	0	0	0	0.197	3.32	1189	3.12	1264
130	0	0	0	0.197	3.57	1105	3.35	1177
167	0	0	0	0.197	4.6	856	4.35	906
212	0	0	0	0.197	5.79	681	5.53	714

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.123

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	5.02	2489	4.99	2500*
0	0	0	0	0.197	2.54	2420	2.53	2433
30	0	0	0	0.197	2.98	2070	2.91	2114
40	0	0	0	0.197	3.15	1957	3.06	2009
50	0	0	0	0.197	3.33	1848	3.23	1905
60	0	0	0	0.197	3.54	1742	3.41	1803
70	0	0	0	0.197	3.76	1640	3.61	1704
80	0	0	0	0.197	3.99	1542	3.83	1607
90	0	0	0	0.197	4.25	1448	4.07	1514
100	0	0	0	0.197	4.53	1360	4.32	1424
110	0	0	0	0.197	4.82	1278	4.6	1340
120	0	0	0	0.197	5.13	1201	4.89	1260
130	0	0	0	0.197	5.45	1131	5.2	1185
167	0	0	0	0.197	6.71	918	6.44	956
212	0	0	0	0.197	8.12	759	7.85	785

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5
175.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6
200.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.125

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9
225.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11
250.00	0-8	0-8	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-6	0-7
200.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
225.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0
250.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.126

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9
225.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11
250.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1
275.00	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4
300.00	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
325.00	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11
350.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-2
375.00	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-2	2-4	2-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7
200.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9
225.00	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0
250.00	0-8	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-2
275.00	0-10	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5
300.00	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-6	1-7	1-9
325.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-11	2-0
350.00	1-3	1-4	1-5	1-6	1-8	1-9	1-10	2-0	2-2	2-4
375.00	1-6	1-7	1-8	1-9	1-10	2-0	2-2	2-4	2-6	2-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.127

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
225.00	0-6	0-7	0-7	0-8	0-8	0-8	0-9	0-10	0-10	0-11
250.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-2
275.00	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4
300.00	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-8
325.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11
350.00	1-4	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-1	2-3
375.00	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-3	2-5	2-7
400.00	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-6	2-9	2-11
425.00	1-11	2-0	2-1	2-3	2-4	2-6	2-8	2-10	3-1	3-3
450.00	2-2	2-3	2-5	2-6	2-8	2-10	3-0	3-2	3-5	3-8
475.00	2-5	2-6	2-8	2-10	3-0	3-2	3-4	3-7	3-10	4-1
500.00	2-8	2-10	2-11	3-1	3-3	3-6	3-9	4-0	4-3	4-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-5	0-6	0-6	0-7	0-7	0-7	0-8	0-9	0-9
225.00	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0
250.00	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-1	1-2
275.00	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5
300.00	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9
325.00	1-2	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-0
350.00	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-1	2-2	2-4
375.00	1-6	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-6	2-9
400.00	1-9	1-10	1-11	2-1	2-2	2-4	2-6	2-8	2-10	3-1
425.00	1-11	2-1	2-2	2-4	2-6	2-8	2-10	3-0	3-3	3-6
450.00	2-2	2-4	2-5	2-7	2-9	2-11	3-2	3-5	3-8	3-11
475.00	2-5	2-7	2-9	2-11	3-1	3-3	3-6	3-9	4-1	4-4
500.00	2-8	2-10	3-0	3-3	3-5	3-8	3-11	4-2	4-6	4-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.128

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-2
275.00	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5
300.00	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
325.00	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-9	1-10	1-11
350.00	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-1	2-3
375.00	1-7	1-8	1-9	1-10	1-11	2-0	2-2	2-3	2-5	2-7
400.00	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-7	2-9	2-11
425.00	2-0	2-1	2-3	2-4	2-6	2-7	2-9	2-11	3-1	3-4
450.00	2-3	2-4	2-6	2-7	2-9	2-11	3-1	3-4	3-6	3-9
475.00	2-6	2-8	2-9	2-11	3-1	3-3	3-5	3-8	3-11	4-2
500.00	2-9	2-11	3-1	3-3	3-5	3-7	3-10	4-1	4-4	4-7
525.00	3-1	3-3	3-5	3-7	3-9	4-0	4-3	4-6	4-9	5-1
550.00	3-4	3-6	3-9	3-11	4-2	4-4	4-8	4-11	5-3	5-7
575.00	3-8	3-10	4-1	4-3	4-6	4-9	5-1	5-5	5-9	6-1
600.00	4-0	4-2	4-5	4-8	4-11	5-2	5-6	5-10	6-3	6-7
625.00	4-4	4-7	4-9	5-1	5-4	5-8	6-0	6-4	6-9	7-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-2
275.00	0-10	0-11	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-5
300.00	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-8	1-9
325.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-0
350.00	1-5	1-5	1-6	1-8	1-9	1-10	1-11	2-1	2-3	2-4
375.00	1-7	1-8	1-9	1-10	2-0	2-1	2-3	2-5	2-7	2-9
400.00	1-10	1-11	2-0	2-2	2-3	2-5	2-7	2-9	2-11	3-1
425.00	2-0	2-2	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-6
450.00	2-3	2-5	2-7	2-8	2-10	3-1	3-3	3-5	3-8	3-11
475.00	2-7	2-8	2-10	3-0	3-2	3-5	3-7	3-10	4-1	4-4
500.00	2-10	3-0	3-2	3-4	3-6	3-9	4-0	4-3	4-6	4-10
525.00	3-1	3-3	3-6	3-8	3-11	4-2	4-5	4-8	5-0	5-4
550.00	3-5	3-7	3-10	4-0	4-3	4-7	4-10	5-2	5-6	5-10
575.00	3-9	3-11	4-2	4-5	4-8	5-0	5-3	5-7	6-0	6-4
600.00	4-1	4-3	4-6	4-10	5-1	5-5	5-9	6-1	6-6	6-11
625.00	4-5	4-8	4-11	5-2	5-6	5-10	6-3	6-8	7-1	7-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.129

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	0.17	2932	0.17	3000*
0	0	0	0	0.197	0.08	3183	0.08	3213
30	0	0	0	0.197	0.09	2791	0.09	2879
40	0	0	0	0.197	0.09	2661	0.09	2765
50	0	0	0	0.197	0.1	2531	0.09	2649
60	0	0	0	0.197	0.1	2400	0.1	2533
70	0	0	0	0.197	0.11	2270	0.1	2414
80	0	0	0	0.197	0.12	2140	0.11	2295
90	0	0	0	0.197	0.12	2010	0.11	2174
100	0	0	0	0.197	0.13	1880	0.12	2053
110	0	0	0	0.197	0.14	1751	0.13	1930
120	0	0	0	0.197	0.15	1621	0.14	1806
130	0	0	0	0.197	0.16	1493	0.15	1682
167	0	0	0	0.197	0.24	1035	0.2	1217
212	0	0	0	0.197	0.41	604	0.33	738

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	0.68	2936	0.67	3000*
0	0	0	0	0.197	0.31	3157	0.31	3188
30	0	0	0	0.197	0.36	2768	0.35	2855
40	0	0	0	0.197	0.37	2639	0.36	2741
50	0	0	0	0.197	0.39	2510	0.38	2626
60	0	0	0	0.197	0.41	2381	0.39	2510
70	0	0	0	0.197	0.44	2252	0.41	2393
80	0	0	0	0.197	0.46	2124	0.43	2275
90	0	0	0	0.197	0.49	1996	0.46	2156
100	0	0	0	0.197	0.53	1869	0.48	2036
110	0	0	0	0.197	0.57	1743	0.51	1916
120	0	0	0	0.197	0.61	1618	0.55	1795
130	0	0	0	0.197	0.66	1495	0.59	1674
167	0	0	0	0.197	0.92	1065	0.8	1232
212	0	0	0	0.197	1.41	701	1.23	804

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	1.53	2943	1.5	3000*
0	0	0	0	0.197	0.71	3115	0.7	3147
30	0	0	0	0.197	0.81	2730	0.79	2815
40	0	0	0	0.197	0.85	2603	0.82	2703
50	0	0	0	0.197	0.9	2476	0.86	2589
60	0	0	0	0.197	0.94	2349	0.9	2475
70	0	0	0	0.197	1	2223	0.94	2359
80	0	0	0	0.197	1.06	2099	0.99	2243
90	0	0	0	0.197	1.12	1975	1.04	2127
100	0	0	0	0.197	1.2	1853	1.1	2010
110	0	0	0	0.197	1.28	1732	1.17	1894
120	0	0	0	0.197	1.37	1614	1.25	1778
130	0	0	0	0.197	1.48	1498	1.33	1662
167	0	0	0	0.197	2.01	1105	1.77	1253
212	0	0	0	0.197	2.79	794	2.53	876

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	2.71	2952	2.66	3000*
0	0	0	0	0.197	1.29	3056	1.28	3089
30	0	0	0	0.197	1.47	2678	1.43	2761
40	0	0	0	0.197	1.54	2553	1.49	2650
50	0	0	0	0.197	1.62	2430	1.55	2539
60	0	0	0	0.197	1.71	2307	1.62	2426
70	0	0	0	0.197	1.8	2185	1.7	2314
80	0	0	0	0.197	1.91	2065	1.79	2201
90	0	0	0	0.197	2.02	1947	1.89	2089
100	0	0	0	0.197	2.15	1831	1.99	1977
110	0	0	0	0.197	2.29	1718	2.11	1866
120	0	0	0	0.197	2.45	1608	2.24	1756
130	0	0	0	0.197	2.62	1501	2.39	1648
167	0	0	0	0.197	3.42	1151	3.09	1277
212	0	0	0	0.197	4.49	877	4.18	943

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.131

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Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	4.22	2961	4.16	3000*
0	0	0	0	0.197	2.06	2983	2.04	3017
30	0	0	0	0.197	2.36	2614	2.29	2694
40	0	0	0	0.197	2.47	2493	2.38	2585
50	0	0	0	0.197	2.59	2373	2.49	2476
60	0	0	0	0.197	2.73	2255	2.6	2367
70	0	0	0	0.197	2.88	2139	2.73	2259
80	0	0	0	0.197	3.04	2026	2.86	2151
90	0	0	0	0.197	3.22	1914	3.01	2043
100	0	0	0	0.197	3.41	1806	3.18	1937
110	0	0	0	0.197	3.62	1702	3.36	1833
120	0	0	0	0.197	3.85	1601	3.56	1731
130	0	0	0	0.197	4.09	1505	3.77	1632
167	0	0	0	0.197	5.15	1195	4.74	1299
212	0	0	0	0.197	6.49	949	6.14	1004

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5
200.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.133

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-5	0-6	0-6
225.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8
250.00	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7
225.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-9
250.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.134

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4
175.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6
225.00	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8
250.00	0-6	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10
275.00	0-8	0-8	0-8	0-9	0-9	0-9	0-10	0-11	0-11	1-0
300.00	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2
325.00	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4	1-4
350.00	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7
375.00	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
225.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
250.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11
275.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1
300.00	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3
325.00	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6
350.00	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-8	1-9
375.00	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	2-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.135

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6
225.00	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-8	0-8
250.00	0-6	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10
275.00	0-8	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0
300.00	0-9	0-10	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2
325.00	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4	1-5
350.00	1-1	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6	1-7
375.00	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-9	1-10
400.00	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-11	2-0	2-1
425.00	1-7	1-7	1-8	1-9	1-10	1-11	2-0	2-2	2-3	2-5
450.00	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-5	2-6	2-8
475.00	1-11	2-0	2-1	2-2	2-3	2-5	2-6	2-8	2-10	3-0
500.00	2-2	2-3	2-4	2-5	2-6	2-8	2-10	2-11	3-1	3-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
225.00	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-11
275.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1
300.00	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-3
325.00	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6
350.00	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
375.00	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0
400.00	1-5	1-6	1-7	1-7	1-8	1-10	1-11	2-0	2-2	2-4
425.00	1-7	1-8	1-9	1-10	1-11	2-0	2-2	2-3	2-5	2-7
450.00	1-9	1-10	1-11	2-1	2-2	2-3	2-5	2-7	2-9	2-11
475.00	2-0	2-1	2-2	2-3	2-5	2-7	2-8	2-10	3-0	3-3
500.00	2-2	2-4	2-5	2-6	2-8	2-10	3-0	3-2	3-4	3-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.136

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10
275.00	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	1-0	1-0
300.00	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-3
325.00	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5
350.00	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8
375.00	1-3	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-11
400.00	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-2
425.00	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-4	2-5
450.00	1-9	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-7	2-9
475.00	2-0	2-1	2-2	2-3	2-4	2-6	2-7	2-9	2-10	3-0
500.00	2-2	2-3	2-5	2-6	2-7	2-9	2-10	3-0	3-2	3-4
525.00	2-5	2-6	2-8	2-9	2-10	3-0	3-2	3-4	3-6	3-8
550.00	2-8	2-9	2-11	3-0	3-2	3-4	3-6	3-8	3-10	4-1
575.00	2-11	3-0	3-2	3-3	3-5	3-7	3-9	4-0	4-2	4-5
600.00	3-2	3-3	3-5	3-7	3-9	3-11	4-1	4-4	4-7	4-10
625.00	3-5	3-7	3-9	3-11	4-1	4-3	4-6	4-9	5-0	5-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11
275.00	0-8	0-9	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1
300.00	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-3	1-4
325.00	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6
350.00	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9
375.00	1-3	1-4	1-5	1-6	1-6	1-7	1-9	1-10	1-11	2-0
400.00	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-4
425.00	1-8	1-8	1-9	1-10	2-0	2-1	2-2	2-4	2-6	2-7
450.00	1-10	1-11	2-0	2-1	2-3	2-4	2-6	2-7	2-9	2-11
475.00	2-0	2-2	2-3	2-4	2-6	2-7	2-9	2-11	3-1	3-3
500.00	2-3	2-4	2-6	2-7	2-9	2-11	3-0	3-3	3-5	3-7
525.00	2-6	2-7	2-9	2-10	3-0	3-2	3-4	3-7	3-9	4-0
550.00	2-9	2-10	3-0	3-2	3-4	3-6	3-8	3-11	4-1	4-5
575.00	3-0	3-1	3-3	3-5	3-7	3-10	4-0	4-3	4-6	4-9
600.00	3-3	3-5	3-7	3-9	3-11	4-2	4-5	4-8	4-11	5-3
625.00	3-6	3-8	3-10	4-1	4-3	4-6	4-9	5-0	5-4	5-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.137

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	0.15	3429	0.14	3500*
0	0	0	0	0.197	0.07	3683	0.07	3706
30	0	0	0	0.197	0.07	3291	0.07	3386
40	0	0	0	0.197	0.08	3161	0.08	3276
50	0	0	0	0.197	0.08	3030	0.08	3165
60	0	0	0	0.197	0.08	2900	0.08	3053
70	0	0	0	0.197	0.09	2769	0.08	2938
80	0	0	0	0.197	0.09	2639	0.09	2823
90	0	0	0	0.197	0.1	2509	0.09	2706
100	0	0	0	0.197	0.1	2378	0.1	2588
110	0	0	0	0.197	0.11	2248	0.1	2469
120	0	0	0	0.197	0.12	2118	0.1	2348
130	0	0	0	0.197	0.12	1988	0.11	2226
167	0	0	0	0.197	0.16	1509	0.14	1765
212	0	0	0	0.197	0.24	1027	0.21	1192

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	0.58	3432	0.57	3500*
0	0	0	0	0.197	0.27	3664	0.27	3689
30	0	0	0	0.197	0.3	3274	0.29	3369
40	0	0	0	0.197	0.31	3144	0.3	3259
50	0	0	0	0.197	0.33	3014	0.31	3148
60	0	0	0	0.197	0.34	2885	0.32	3036
70	0	0	0	0.197	0.36	2755	0.34	2923
80	0	0	0	0.197	0.38	2626	0.35	2808
90	0	0	0	0.197	0.39	2497	0.37	2692
100	0	0	0	0.197	0.42	2368	0.38	2574
110	0	0	0	0.197	0.44	2239	0.4	2456
120	0	0	0	0.197	0.47	2111	0.42	2336
130	0	0	0	0.197	0.5	1984	0.44	2216
167	0	0	0	0.197	0.65	1519	0.56	1764
212	0	0	0	0.197	0.92	1065	0.81	1218

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.138

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.399	1.31	3437	1.28	3500*
0	0	0	0	0.197	0.61	3633	0.61	3659
30	0	0	0	0.197	0.68	3246	0.66	3340
40	0	0	0	0.197	0.71	3117	0.69	3231
50	0	0	0	0.197	0.74	2988	0.71	3121
60	0	0	0	0.197	0.77	2860	0.74	3009
70	0	0	0	0.197	0.81	2732	0.77	2897
80	0	0	0	0.197	0.85	2605	0.8	2783
90	0	0	0	0.197	0.89	2478	0.83	2668
100	0	0	0	0.197	0.94	2351	0.87	2552
110	0	0	0	0.197	1	2225	0.91	2435
120	0	0	0	0.197	1.06	2101	0.96	2318
130	0	0	0	0.197	1.12	1977	1.01	2200
167	0	0	0	0.197	1.44	1534	1.26	1762
212	0	0	0	0.197	1.99	1115	1.77	1254

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.399	2.32	3444	2.28	3500*
0	0	0	0	0.197	1.1	3590	1.09	3618
30	0	0	0	0.197	1.23	3206	1.19	3301
40	0	0	0	0.197	1.28	3079	1.23	3192
50	0	0	0	0.197	1.33	2952	1.28	3083
60	0	0	0	0.197	1.39	2826	1.33	2972
70	0	0	0	0.197	1.46	2700	1.38	2861
80	0	0	0	0.197	1.53	2576	1.43	2749
90	0	0	0	0.197	1.61	2451	1.5	2636
100	0	0	0	0.197	1.69	2328	1.56	2522
110	0	0	0	0.197	1.79	2207	1.64	2408
120	0	0	0	0.197	1.89	2086	1.72	2293
130	0	0	0	0.197	2	1968	1.81	2178
167	0	0	0	0.197	2.54	1552	2.24	1760
212	0	0	0	0.197	3.37	1168	3.05	1293

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.139

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	3.62	3452	3.57	3500*
0	0	0	0	0.197	1.74	3536	1.73	3566
30	0	0	0	0.197	1.95	3157	1.89	3251
40	0	0	0	0.197	2.03	3032	1.96	3143
50	0	0	0	0.197	2.12	2908	2.03	3035
60	0	0	0	0.197	2.21	2784	2.1	2926
70	0	0	0	0.197	2.31	2661	2.19	2817
80	0	0	0	0.197	2.42	2540	2.27	2706
90	0	0	0	0.197	2.54	2420	2.37	2596
100	0	0	0	0.197	2.68	2301	2.48	2485
110	0	0	0	0.197	2.82	2184	2.59	2374
120	0	0	0	0.197	2.98	2070	2.72	2263
130	0	0	0	0.197	3.15	1957	2.86	2153
167	0	0	0	0.197	3.92	1571	3.5	1758
212	0	0	0	0.197	5.05	1220	4.62	1333

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.140

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 0	0- 0	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1
100.00	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1
125.00	0- 1	0- 1	0- 1	0- 1	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2
150.00	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2	0- 3	0- 3
175.00	0- 3	0- 3	0- 3	0- 3	0- 3	0- 3	0- 3	0- 3	0- 3	0- 4
200.00	0- 3	0- 3	0- 4	0- 4	0- 4	0- 4	0- 4	0- 4	0- 5	0- 5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 0	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1
100.00	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1
125.00	0- 1	0- 1	0- 1	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2
150.00	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2	0- 3	0- 3	0- 3	0- 3
175.00	0- 3	0- 3	0- 3	0- 3	0- 3	0- 3	0- 3	0- 4	0- 4	0- 4
200.00	0- 3	0- 4	0- 4	0- 4	0- 4	0- 4	0- 4	0- 5	0- 5	0- 5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1
125.00	0- 1	0- 1	0- 1	0- 1	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2
150.00	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2	0- 3	0- 3
175.00	0- 3	0- 3	0- 3	0- 3	0- 3	0- 3	0- 3	0- 3	0- 4	0- 4
200.00	0- 3	0- 4	0- 4	0- 4	0- 4	0- 4	0- 4	0- 4	0- 5	0- 5
225.00	0- 4	0- 4	0- 5	0- 5	0- 5	0- 5	0- 5	0- 6	0- 6	0- 6
250.00	0- 5	0- 5	0- 6	0- 6	0- 6	0- 6	0- 7	0- 7	0- 7	0- 8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1
125.00	0- 1	0- 1	0- 1	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2
150.00	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2	0- 3	0- 3	0- 3	0- 3
175.00	0- 3	0- 3	0- 3	0- 3	0- 3	0- 3	0- 3	0- 4	0- 4	0- 4
200.00	0- 3	0- 4	0- 4	0- 4	0- 4	0- 4	0- 5	0- 5	0- 5	0- 5
225.00	0- 4	0- 5	0- 5	0- 5	0- 5	0- 5	0- 6	0- 6	0- 6	0- 7
250.00	0- 5	0- 6	0- 6	0- 6	0- 6	0- 7	0- 7	0- 7	0- 8	0- 8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
200.00	0-3	0-4	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5
225.00	0-4	0-4	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6
250.00	0-5	0-6	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8
275.00	0-6	0-7	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9
300.00	0-8	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-10	0-11
325.00	0-9	0-9	0-10	0-10	0-10	0-11	0-11	1-0	1-0	1-1
350.00	0-10	0-11	0-11	1-0	1-0	1-0	1-1	1-2	1-2	1-3
375.00	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-4	1-4	1-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5
225.00	0-4	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
250.00	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8
275.00	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10
300.00	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	0-11	1-0
325.00	0-9	0-10	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2
350.00	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-3	1-4
375.00	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-3	0-4	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5
225.00	0-4	0-5	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6
250.00	0-5	0-6	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8
275.00	0-7	0-7	0-7	0-7	0-8	0-8	0-8	0-8	0-9	0-9
300.00	0-8	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	0-11
325.00	0-9	0-9	0-10	0-10	0-11	0-11	0-11	1-0	1-0	1-1
350.00	0-11	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
375.00	1-0	1-1	1-1	1-1	1-2	1-3	1-3	1-4	1-4	1-5
400.00	1-2	1-2	1-3	1-3	1-4	1-5	1-5	1-6	1-7	1-8
425.00	1-4	1-4	1-5	1-5	1-6	1-7	1-7	1-8	1-9	1-10
450.00	1-6	1-6	1-7	1-7	1-8	1-9	1-10	1-11	2-0	2-1
475.00	1-8	1-8	1-9	1-10	1-10	1-11	2-0	2-1	2-2	2-4
500.00	1-10	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5
225.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7
250.00	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8
275.00	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-10
300.00	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	0-11	1-0
325.00	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2
350.00	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4	1-4
375.00	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7
400.00	1-2	1-3	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9
425.00	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0
450.00	1-6	1-7	1-7	1-8	1-9	1-10	1-11	2-0	2-2	2-3
475.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-5	2-6
500.00	1-10	1-11	2-0	2-1	2-2	2-3	2-5	2-6	2-8	2-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.144

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-6	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-7	0-8
275.00	0-7	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-9
300.00	0-8	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	0-11
325.00	0-9	0-10	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1
350.00	0-11	0-11	1-0	1-0	1-0	1-1	1-1	1-2	1-3	1-3
375.00	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-5	1-6
400.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-7	1-8
425.00	1-4	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-9	1-10
450.00	1-6	1-6	1-7	1-8	1-8	1-9	1-10	1-11	2-0	2-1
475.00	1-8	1-9	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
500.00	1-10	1-11	2-0	2-0	2-1	2-2	2-3	2-4	2-6	2-7
525.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-9	2-10
550.00	2-3	2-3	2-4	2-5	2-7	2-8	2-9	2-10	3-0	3-2
575.00	2-5	2-6	2-7	2-8	2-9	2-11	3-0	3-2	3-3	3-5
600.00	2-8	2-9	2-10	2-11	3-0	3-2	3-3	3-5	3-7	3-9
625.00	2-10	3-0	3-1	3-2	3-3	3-5	3-7	3-8	3-10	4-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8
275.00	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-10
300.00	0-8	0-8	0-9	0-9	0-10	0-10	0-10	0-11	1-0	1-0
325.00	0-10	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2
350.00	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-5
375.00	1-1	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6	1-7
400.00	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-9	1-10
425.00	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-11	2-0
450.00	1-6	1-7	1-8	1-9	1-9	1-10	2-0	2-1	2-2	2-3
475.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-7
500.00	1-11	1-11	2-0	2-1	2-3	2-4	2-5	2-7	2-8	2-10
525.00	2-1	2-2	2-3	2-4	2-5	2-7	2-8	2-10	2-11	3-1
550.00	2-3	2-4	2-5	2-7	2-8	2-10	2-11	3-1	3-3	3-5
575.00	2-6	2-7	2-8	2-10	2-11	3-1	3-2	3-4	3-6	3-9
600.00	2-8	2-10	2-11	3-1	3-2	3-4	3-6	3-8	3-10	4-1
625.00	2-11	3-1	3-2	3-4	3-5	3-7	3-9	4-0	4-2	4-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.145

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	0.78	1000	0.78	1000*
0	0	0	0	0.197	0.24	1015	0.24	1015
30	0	0	0	0.197	0.37	659	0.36	676
40	0	0	0	0.197	0.44	554	0.43	573
50	0	0	0	0.197	0.53	462	0.51	480
60	0	0	0	0.197	0.64	386	0.61	402
70	0	0	0	0.197	0.75	326	0.73	339
80	0	0	0	0.197	0.87	282	0.85	291
90	0	0	0	0.197	0.99	248	0.97	255
100	0	0	0	0.197	1.11	223	1.07	231
110	0	0	0	0.197	1.21	203	1.16	212
120	0	0	0	0.197	1.31	189	1.26	196
130	0	0	0	0.197	1.39	177	1.35	183
167	0	0	0	0.197	1.69	146	1.65	149
212	0	0	0	0.197	2.01	123	1.97	125

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	3.14	1000	3.14	1000*
0	0	0	0	0.197	1.82	541	1.78	555
30	0	0	0	0.197	2.39	412	2.34	422
40	0	0	0	0.197	2.57	383	2.52	391
50	0	0	0	0.197	2.75	358	2.71	364
60	0	0	0	0.197	2.93	337	2.88	342
70	0	0	0	0.197	3.1	318	3.06	323
80	0	0	0	0.197	3.26	302	3.22	306
90	0	0	0	0.197	3.42	288	3.39	291
100	0	0	0	0.197	3.57	276	3.54	279
110	0	0	0	0.197	3.72	265	3.67	269
120	0	0	0	0.197	3.86	256	3.8	260
130	0	0	0	0.197	3.99	247	3.93	251
167	0	0	0	0.197	4.43	223	4.37	226
212	0	0	0	0.197	4.93	200	4.87	203

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	7.07	1000	7.07	1000*
0	0	0	0	0.197	5.68	391	5.6	396
30	0	0	0	0.197	6.28	353	6.22	357
40	0	0	0	0.197	6.47	343	6.42	346
50	0	0	0	0.197	6.66	333	6.61	336
60	0	0	0	0.197	6.84	324	6.8	327
70	0	0	0	0.197	7.02	316	6.98	318
80	0	0	0	0.197	7.2	309	7.16	310
90	0	0	0	0.197	7.37	301	7.34	303
100	0	0	0	0.197	7.54	295	7.51	296
110	0	0	0	0.197	7.71	288	7.66	290
120	0	0	0	0.197	7.87	282	7.81	285
130	0	0	0	0.197	8.02	277	7.95	279
167	0	0	0	0.197	8.54	260	8.48	262
212	0	0	0	0.197	9.14	243	9.08	245

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	12.59	1000	12.59	1000*
0	0	0	0	0.197	11.2	353	11.13	355
30	0	0	0	0.197	11.79	335	11.73	337
40	0	0	0	0.197	11.98	330	11.92	332
50	0	0	0	0.197	12.17	325	12.12	326
60	0	0	0	0.197	12.36	320	12.31	321
70	0	0	0	0.197	12.54	315	12.5	317
80	0	0	0	0.197	12.72	311	12.68	312
90	0	0	0	0.197	12.9	307	12.87	307
100	0	0	0	0.197	13.08	303	13.05	303
110	0	0	0	0.197	13.25	299	13.2	300
120	0	0	0	0.197	13.43	295	13.36	296
130	0	0	0	0.197	13.58	291	13.52	293
167	0	0	0	0.197	14.15	280	14.08	281
212	0	0	0	0.197	14.8	268	14.74	269

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	19.71	1000	19.71	1000*
0	0	0	0	0.197	18.33	338	18.26	339
30	0	0	0	0.197	18.91	327	18.85	328
40	0	0	0	0.197	19.1	324	19.05	325
50	0	0	0	0.197	19.29	321	19.24	322
60	0	0	0	0.197	19.48	318	19.43	319
70	0	0	0	0.197	19.67	315	19.62	316
80	0	0	0	0.197	19.85	312	19.81	313
90	0	0	0	0.197	20.03	309	20	310
100	0	0	0	0.197	20.21	307	20.18	307
110	0	0	0	0.197	20.39	304	20.34	305
120	0	0	0	0.197	20.57	301	20.51	302
130	0	0	0	0.197	20.73	299	20.67	300
167	0	0	0	0.197	21.32	291	21.25	292
212	0	0	0	0.197	22.01	282	21.94	283

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-7	0-8
100.00	0-4	0-4	0-5	0-6	0-7	0-9	0-10	1-0	1-1	1-2
125.00	0-6	0-7	0-8	0-10	1-0	1-2	1-4	1-6	1-8	1-10
150.00	0-8	0-10	1-0	1-2	1-5	1-8	1-11	2-2	2-5	2-7
175.00	1-0	1-1	1-4	1-7	1-11	2-3	2-7	3-0	3-3	3-7
200.00	1-3	1-5	1-9	2-1	2-5	2-11	3-5	3-10	4-3	4-8

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-7	0-8
100.00	0-4	0-4	0-5	0-6	0-8	0-9	0-10	1-0	1-1	1-3
125.00	0-6	0-7	0-8	0-10	1-0	1-2	1-4	1-7	1-9	1-11
150.00	0-9	0-10	1-0	1-2	1-5	1-8	2-0	2-3	2-6	2-9
175.00	1-0	1-2	1-4	1-8	1-11	2-4	2-8	3-0	3-5	3-9
200.00	1-3	1-6	1-9	2-2	2-7	3-0	3-6	4-0	4-5	4-10

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SHEET 149 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.149

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11
125.00	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-5
150.00	1-3	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-0	2-1
175.00	1-8	1-9	1-11	2-1	2-2	2-4	2-6	2-7	2-8	2-10
200.00	2-2	2-4	2-6	2-8	2-11	3-1	3-3	3-5	3-6	3-8
225.00	2-9	3-0	3-2	3-5	3-8	3-10	4-1	4-3	4-6	4-8
250.00	3-4	3-8	3-11	4-3	4-6	4-9	5-0	5-4	5-6	5-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11
125.00	0-10	0-11	1-0	1-1	1-2	1-3	1-3	1-4	1-5	1-5
150.00	1-3	1-4	1-5	1-7	1-8	1-9	1-10	1-11	2-0	2-1
175.00	1-8	1-10	2-0	2-1	2-3	2-4	2-6	2-7	2-9	2-10
200.00	2-2	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9
225.00	2-9	3-0	3-3	3-6	3-8	3-11	4-2	4-4	4-6	4-9
250.00	3-5	3-9	4-0	4-4	4-7	4-10	5-1	5-4	5-7	5-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-7	1-8	1-8	1-9	1-9	1-10	1-11	1-11
175.00	2-1	2-1	2-2	2-3	2-4	2-4	2-5	2-6	2-7	2-7
200.00	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5
225.00	3-5	3-6	3-7	3-9	3-10	3-11	4-0	4-2	4-3	4-4
250.00	4-2	4-4	4-5	4-7	4-9	4-10	5-0	5-1	5-3	5-4
275.00	5-1	5-3	5-5	5-7	5-9	5-10	6-0	6-2	6-4	6-5
300.00	6-0	6-3	6-5	6-7	6-10	7-0	7-2	7-4	7-6	7-8
325.00	7-1	7-4	7-6	7-9	8-0	8-2	8-5	8-7	8-10	9-0
350.00	8-2	8-6	8-9	9-0	9-3	9-6	9-9	10-0	10-3	10-5
375.00	9-5	9-9	10-0	10-4	10-7	10-11	11-2	11-6	11-9	12-0

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-7	1-8	1-9	1-9	1-10	1-10	1-11	1-11
175.00	2-1	2-2	2-2	2-3	2-4	2-5	2-5	2-6	2-7	2-7
200.00	2-8	2-9	2-11	3-0	3-0	3-1	3-2	3-3	3-4	3-5
225.00	3-5	3-6	3-8	3-9	3-10	3-11	4-1	4-2	4-3	4-4
250.00	4-3	4-4	4-6	4-7	4-9	4-11	5-0	5-1	5-3	5-4
275.00	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-2	6-4	6-6
300.00	6-1	6-3	6-6	6-8	6-10	7-0	7-2	7-4	7-7	7-9
325.00	7-2	7-4	7-7	7-10	8-0	8-3	8-5	8-8	8-10	9-1
350.00	8-3	8-7	8-10	9-1	9-4	9-7	9-10	10-0	10-3	10-6
375.00	9-6	9-10	10-1	10-5	10-8	11-0	11-3	11-6	11-9	12-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.151

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-3	3-3	3-4
225.00	3-8	3-9	3-9	3-10	3-11	3-11	4-0	4-1	4-1	4-2
250.00	4-6	4-7	4-8	4-9	4-10	4-11	4-11	5-0	5-1	5-2
275.00	5-5	5-6	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3
300.00	6-6	6-7	6-8	6-10	6-11	7-0	7-2	7-3	7-4	7-5
325.00	7-7	7-9	7-10	8-0	8-1	8-3	8-4	8-6	8-7	8-9
350.00	8-10	9-0	9-2	9-3	9-5	9-7	9-8	9-10	10-0	10-1
375.00	10-2	10-4	10-6	10-8	10-10	11-0	11-2	11-4	11-6	11-7
400.00	11-6	11-9	11-11	12-1	12-4	12-6	12-8	12-10	13-1	13-2
425.00	13-0	13-3	13-6	13-8	13-11	14-1	14-4	14-6	14-9	14-11
450.00	14-7	14-10	15-1	15-4	15-7	15-10	16-1	16-3	16-6	16-9
475.00	16-3	16-7	16-10	17-1	17-4	17-8	17-11	18-2	18-5	18-8
500.00	18-0	18-4	18-8	18-11	19-3	19-6	19-10	20-1	20-5	20-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-11	2-11	3-0	3-0	3-1	3-2	3-2	3-3	3-3	3-4
225.00	3-8	3-9	3-9	3-10	3-11	4-0	4-0	4-1	4-2	4-2
250.00	4-6	4-7	4-8	4-9	4-10	4-11	5-0	5-0	5-1	5-2
275.00	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3
300.00	6-6	6-8	6-9	6-10	6-11	7-1	7-2	7-3	7-4	7-5
325.00	7-8	7-9	7-11	8-0	8-2	8-3	8-5	8-6	8-8	8-9
350.00	8-11	9-0	9-2	9-4	9-6	9-7	9-9	9-11	10-0	10-2
375.00	10-2	10-4	10-6	10-8	10-10	11-0	11-2	11-4	11-6	11-8
400.00	11-7	11-10	12-0	12-2	12-4	12-7	12-9	12-11	13-1	13-3
425.00	13-1	13-4	13-6	13-9	13-11	14-2	14-4	14-7	14-9	15-0
450.00	14-8	14-11	15-2	15-5	15-8	15-11	16-1	16-4	16-7	16-9
475.00	16-4	16-8	16-11	17-2	17-5	17-8	17-11	18-2	18-5	18-8
500.00	18-2	18-5	18-9	19-0	19-4	19-7	19-11	20-2	20-5	20-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.152

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-8	4-8	4-9	4-10	4-10	4-11	4-11	5-0	5-0	5-1
275.00	5-8	5-8	5-9	5-10	5-10	5-11	6-0	6-0	6-1	6-2
300.00	6-8	6-9	6-10	6-11	7-0	7-1	7-1	7-2	7-3	7-4
325.00	7-10	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7
350.00	9-2	9-3	9-4	9-5	9-6	9-7	9-8	9-9	9-11	9-11
375.00	10-6	10-7	10-8	10-10	10-11	11-0	11-2	11-3	11-4	11-5
400.00	11-11	12-1	12-2	12-4	12-5	12-7	12-8	12-9	12-11	13-0
425.00	13-6	13-7	13-9	13-11	14-0	14-2	14-4	14-5	14-7	14-8
450.00	15-1	15-3	15-5	15-7	15-9	15-11	16-0	16-2	16-4	16-6
475.00	16-10	17-0	17-2	17-4	17-6	17-8	17-10	18-1	18-2	18-4
500.00	18-8	18-10	19-1	19-3	19-5	19-7	19-10	20-0	20-2	20-4
525.00	20-7	20-9	21-0	21-3	21-5	21-8	21-10	22-1	22-3	22-5
550.00	22-7	22-10	23-1	23-3	23-6	23-9	24-0	24-2	24-5	24-8
575.00	24-8	24-11	25-2	25-6	25-9	26-0	26-3	26-6	26-8	26-11
600.00	26-11	27-2	27-5	27-9	28-0	28-3	28-7	28-10	29-1	29-4
625.00	29-2	29-6	29-9	30-1	30-5	30-8	31-0	31-3	31-7	31-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-8	4-9	4-9	4-10	4-10	4-11	4-11	5-0	5-1	5-1
275.00	5-8	5-9	5-9	5-10	5-11	5-11	6-0	6-1	6-1	6-2
300.00	6-9	6-10	6-10	6-11	7-0	7-1	7-2	7-2	7-3	7-4
325.00	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-5	8-6	8-7
350.00	9-2	9-3	9-4	9-5	9-6	9-8	9-9	9-10	9-11	10-0
375.00	10-6	10-8	10-9	10-10	10-11	11-1	11-2	11-3	11-4	11-6
400.00	12-0	12-1	12-3	12-4	12-5	12-7	12-8	12-10	12-11	13-0
425.00	13-6	13-8	13-10	13-11	14-1	14-2	14-4	14-6	14-7	14-9
450.00	15-2	15-4	15-6	15-7	15-9	15-11	16-1	16-3	16-4	16-6
475.00	16-11	17-1	17-3	17-5	17-7	17-9	17-11	18-1	18-3	18-5
500.00	18-9	18-11	19-1	19-4	19-6	19-8	19-10	20-0	20-3	20-5
525.00	20-8	20-10	21-1	21-3	21-6	21-8	21-11	22-1	22-3	22-6
550.00	22-8	22-11	23-2	23-4	23-7	23-10	24-0	24-3	24-6	24-8
575.00	24-9	25-0	25-3	25-6	25-9	26-0	26-3	26-6	26-9	27-0
600.00	27-0	27-3	27-6	27-10	28-1	28-4	28-7	28-10	29-2	29-5
625.00	29-3	29-7	29-11	30-2	30-6	30-9	31-1	31-4	31-7	31-11

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SHEET 153 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.153

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.627	0.52	1500	0.52	1500*
0	0	0	0	0.197	0.15	1639	0.15	1639
30	0	0	0	0.197	0.19	1265	0.19	1279
40	0	0	0	0.197	0.22	1138	0.21	1159
50	0	0	0	0.197	0.24	1013	0.24	1039
60	0	0	0	0.197	0.28	890	0.27	920
70	0	0	0	0.197	0.32	771	0.31	803
80	0	0	0	0.197	0.37	657	0.36	691
90	0	0	0	0.197	0.45	552	0.42	585
100	0	0	0	0.197	0.54	460	0.5	490
110	0	0	0	0.197	0.64	384	0.6	409
120	0	0	0	0.197	0.76	325	0.7	353
130	0	0	0	0.197	0.87	285	0.8	310
167	0	0	0	0.197	1.24	199	1.16	212
212	0	0	0	0.197	1.62	152	1.55	159

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.627	2.09	1500	2.09	1500*
0	0	0	0	0.197	0.74	1338	0.73	1346
30	0	0	0	0.197	0.99	994	0.97	1019
40	0	0	0	0.197	1.11	890	1.07	917
50	0	0	0	0.197	1.24	794	1.2	822
60	0	0	0	0.197	1.39	708	1.34	735
70	0	0	0	0.197	1.56	632	1.5	656
80	0	0	0	0.197	1.74	567	1.68	588
90	0	0	0	0.197	1.93	512	1.86	530
100	0	0	0	0.197	2.12	466	2.05	481
110	0	0	0	0.197	2.3	428	2.24	440
120	0	0	0	0.197	2.49	396	2.42	408
130	0	0	0	0.197	2.67	369	2.58	383
167	0	0	0	0.197	3.24	305	3.14	314
212	0	0	0	0.197	3.85	256	3.76	262

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	4.71	1500	4.71	1500*
0	0	0	0	0.197	2.35	944	2.29	966
30	0	0	0	0.197	3.03	732	2.94	753
40	0	0	0	0.197	3.27	677	3.18	696
50	0	0	0	0.197	3.52	629	3.43	646
60	0	0	0	0.197	3.77	588	3.68	603
70	0	0	0	0.197	4.02	552	3.93	565
80	0	0	0	0.197	4.26	520	4.17	531
90	0	0	0	0.197	4.5	493	4.42	502
100	0	0	0	0.197	4.74	468	4.66	476
110	0	0	0	0.197	4.97	447	4.89	454
120	0	0	0	0.197	5.19	428	5.11	434
130	0	0	0	0.197	5.41	410	5.31	418
167	0	0	0	0.197	6.11	364	6	370
212	0	0	0	0.197	6.88	323	6.77	328

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	8.37	1500	8.37	1500*
0	0	0	0	0.197	5.63	700	5.51	716
30	0	0	0	0.197	6.52	605	6.39	617
40	0	0	0	0.197	6.8	580	6.68	590
50	0	0	0	0.197	7.08	557	6.97	566
60	0	0	0	0.197	7.36	536	7.25	544
70	0	0	0	0.197	7.63	517	7.52	524
80	0	0	0	0.197	7.89	500	7.79	506
90	0	0	0	0.197	8.15	484	8.06	490
100	0	0	0	0.197	8.41	470	8.32	474
110	0	0	0	0.197	8.65	456	8.57	460
120	0	0	0	0.197	8.9	444	8.82	448
130	0	0	0	0.197	9.14	432	9.04	437
167	0	0	0	0.197	9.92	398	9.8	403
212	0	0	0	0.197	10.8	366	10.68	370

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.155

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	13.1	1500	13.1	1500*
0	0	0	0	0.197	10.28	600	10.14	608
30	0	0	0	0.197	11.19	551	11.06	558
40	0	0	0	0.197	11.48	537	11.35	543
50	0	0	0	0.197	11.77	524	11.64	530
60	0	0	0	0.197	12.05	512	11.93	517
70	0	0	0	0.197	12.33	501	12.21	505
80	0	0	0	0.197	12.6	490	12.49	494
90	0	0	0	0.197	12.87	480	12.77	483
100	0	0	0	0.197	13.13	470	13.04	473
110	0	0	0	0.197	13.39	461	13.31	464
120	0	0	0	0.197	13.65	452	13.57	455
130	0	0	0	0.197	13.9	444	13.79	448
167	0	0	0	0.197	14.74	419	14.61	423
212	0	0	0	0.197	15.68	394	15.56	397

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.156

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7
125.00	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-11
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-10	0-11	1-2	1-4
175.00	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-6	1-10
200.00	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-8	2-0	2-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-4
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10	1-0
150.00	0-5	0-5	0-6	0-7	0-7	0-9	0-10	1-0	1-2	1-5
175.00	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-4	1-8	2-0
200.00	0-8	0-9	0-10	1-0	1-1	1-3	1-6	1-9	2-2	2-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.157

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 3	0- 3	0- 3	0- 4	0- 4	0- 5	0- 5	0- 6	0- 6	0- 7
125.00	0- 4	0- 5	0- 5	0- 6	0- 6	0- 7	0- 8	0- 9	0-10	0-11
150.00	0- 6	0- 7	0- 7	0- 8	0- 9	0-10	0-11	1- 1	1- 2	1- 3
175.00	0- 8	0- 9	0-10	0-11	1- 0	1- 2	1- 3	1- 5	1- 7	1- 9
200.00	0-11	1- 0	1- 1	1- 2	1- 4	1- 6	1- 8	1-10	2- 1	2- 3
225.00	1- 1	1- 3	1- 4	1- 6	1- 8	1-11	2- 1	2- 4	2- 7	2-10
250.00	1- 4	1- 6	1- 8	1-10	2- 1	2- 4	2- 7	2-11	3- 2	3- 6

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 3	0- 3	0- 3	0- 4	0- 4	0- 5	0- 5	0- 6	0- 6	0- 7
125.00	0- 4	0- 5	0- 5	0- 6	0- 7	0- 7	0- 8	0- 9	0-10	0-11
150.00	0- 6	0- 7	0- 7	0- 8	0- 9	0-11	1- 0	1- 1	1- 2	1- 4
175.00	0- 8	0- 9	0-10	0-11	1- 1	1- 2	1- 4	1- 6	1- 7	1- 9
200.00	0-11	1- 0	1- 1	1- 3	1- 5	1- 7	1- 9	1-11	2- 1	2- 4
225.00	1- 2	1- 3	1- 5	1- 7	1- 9	2- 0	2- 2	2- 5	2- 8	2-11
250.00	1- 5	1- 7	1- 9	1-11	2- 2	2- 5	2- 9	3- 0	3- 4	3- 7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.158

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0- 8	0- 9	0-10	0-10	0-11	1- 0	1- 1	1- 1	1- 2	1- 3
175.00	0-11	1- 0	1- 1	1- 2	1- 3	1- 4	1- 5	1- 6	1- 7	1- 8
200.00	1- 2	1- 4	1- 5	1- 6	1- 8	1- 9	1-10	2- 0	2- 1	2- 2
225.00	1- 6	1- 8	1- 9	1-11	2- 1	2- 3	2- 4	2- 6	2- 7	2- 9
250.00	1-11	2- 1	2- 3	2- 5	2- 7	2- 9	2-11	3- 1	3- 3	3- 5
275.00	2- 3	2- 6	2- 8	2-11	3- 1	3- 4	3- 6	3- 9	3-11	4- 1
300.00	2- 9	2-11	3- 2	3- 5	3- 8	3-11	4- 2	4- 5	4- 8	4-11
325.00	3- 2	3- 5	3- 9	4- 0	4- 4	4- 7	4-11	5- 2	5- 6	5- 9
350.00	3- 8	4- 0	4- 4	4- 8	5- 0	5- 4	5- 8	6- 0	6- 4	6- 8
375.00	4- 3	4- 7	5- 0	5- 4	5- 9	6- 2	6- 6	6-11	7- 3	7- 8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0- 8	0- 9	0-10	0-11	0-11	1- 0	1- 1	1- 2	1- 2	1- 3
175.00	0-11	1- 0	1- 1	1- 2	1- 3	1- 4	1- 5	1- 6	1- 7	1- 8
200.00	1- 3	1- 4	1- 5	1- 7	1- 8	1- 9	1-11	2- 0	2- 1	2- 2
225.00	1- 7	1- 8	1-10	2- 0	2- 1	2- 3	2- 5	2- 6	2- 8	2-10
250.00	1-11	2- 1	2- 3	2- 5	2- 7	2- 9	3- 0	3- 2	3- 3	3- 5
275.00	2- 4	2- 7	2- 9	3- 0	3- 2	3- 5	3- 7	3- 9	4- 0	4- 2
300.00	2- 9	3- 0	3- 3	3- 6	3- 9	4- 0	4- 3	4- 6	4- 9	5- 0
325.00	3- 3	3- 7	3-10	4- 2	4- 5	4- 9	5- 0	5- 3	5- 7	5-10
350.00	3-10	4- 1	4- 5	4-10	5- 2	5- 6	5-10	6- 2	6- 5	6- 9
375.00	4- 4	4- 9	5- 1	5- 6	5-11	6- 3	6- 8	7- 0	7- 5	7- 9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.159

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1- 6	1- 7	1- 8	1- 9	1-10	1-11	1-11	2- 0	2- 1	2- 2
225.00	1-11	2- 0	2- 1	2- 2	2- 4	2- 5	2- 6	2- 7	2- 8	2- 9
250.00	2- 5	2- 6	2- 7	2- 9	2-10	2-11	3- 1	3- 2	3- 3	3- 4
275.00	2-11	3- 0	3- 2	3- 4	3- 5	3- 7	3- 8	3-10	3-11	4- 1
300.00	3- 5	3- 7	3- 9	3-11	4- 1	4- 3	4- 5	4- 6	4- 8	4-10
325.00	4- 0	4- 3	4- 5	4- 7	4- 9	5- 0	5- 2	5- 4	5- 6	5- 8
350.00	4- 8	4-11	5- 1	5- 4	5- 7	5- 9	6- 0	6- 2	6- 4	6- 7
375.00	5- 4	5- 7	5-10	6- 1	6- 4	6- 7	6-10	7- 1	7- 4	7- 6
400.00	6- 1	6- 5	6- 8	7- 0	7- 3	7- 6	7-10	8- 1	8- 4	8- 7
425.00	6-11	7- 3	7- 7	7-10	8- 2	8- 6	8-10	9- 1	9- 5	9- 8
450.00	7- 9	8- 1	8- 6	8-10	9- 2	9- 6	9-10	10- 2	10- 6	10-10
475.00	8- 7	9- 0	9- 5	9-10	10- 3	10- 7	11- 0	11- 4	11- 9	12- 1
500.00	9- 6	10- 0	10- 5	10-11	11- 4	11- 9	12- 2	12- 7	13- 0	13- 5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1- 7	1- 8	1- 8	1- 9	1-10	1-11	2- 0	2- 0	2- 1	2- 2
225.00	2- 0	2- 1	2- 2	2- 3	2- 4	2- 5	2- 6	2- 7	2- 8	2- 9
250.00	2- 5	2- 7	2- 8	2- 9	2-10	3- 0	3- 1	3- 2	3- 3	3- 5
275.00	2-11	3- 1	3- 3	3- 4	3- 6	3- 7	3- 9	3-10	4- 0	4- 1
300.00	3- 6	3- 8	3-10	4- 0	4- 2	4- 3	4- 5	4- 7	4- 9	4-10
325.00	4- 1	4- 4	4- 6	4- 8	4-10	5- 0	5- 3	5- 5	5- 7	5- 9
350.00	4- 9	5- 0	5- 2	5- 5	5- 8	5-10	6- 1	6- 3	6- 5	6- 8
375.00	5- 6	5- 9	6- 0	6- 3	6- 6	6- 8	6-11	7- 2	7- 5	7- 7
400.00	6- 3	6- 6	6-10	7- 1	7- 4	7- 8	7-11	8- 2	8- 5	8- 8
425.00	7- 0	7- 4	7- 8	8- 0	8- 4	8- 7	8-11	9- 2	9- 6	9- 9
450.00	7-11	8- 3	8- 7	9- 0	9- 4	9- 8	10- 0	10- 4	10- 8	10-11
475.00	8- 9	9- 2	9- 7	10- 0	10- 5	10- 9	11- 2	11- 6	11-10	12- 2
500.00	9- 9	10- 2	10- 8	11- 1	11- 6	11-11	12- 4	12- 9	13- 2	13- 6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.160

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2- 8	2- 9	2-10	2-11	3- 0	3- 1	3- 1	3- 2	3- 3	3- 4
275.00	3- 3	3- 4	3- 5	3- 6	3- 7	3- 8	3- 9	3-10	3-11	4- 0
300.00	3-10	4- 0	4- 1	4- 2	4- 4	4- 5	4- 6	4- 7	4- 8	4- 9
325.00	4- 7	4- 8	4-10	4-11	5- 0	5- 2	5- 3	5- 5	5- 6	5- 7
350.00	5- 3	5- 5	5- 7	5- 8	5-10	6- 0	6- 1	6- 3	6- 5	6- 6
375.00	6- 1	6- 3	6- 5	6- 7	6- 9	6-10	7- 0	7- 2	7- 4	7- 6
400.00	6-11	7- 1	7- 3	7- 5	7- 8	7-10	8- 0	8- 2	8- 4	8- 6
425.00	7- 9	8- 0	8- 2	8- 5	8- 7	8-10	9- 0	9- 3	9- 5	9- 7
450.00	8- 9	8-11	9- 2	9- 5	9- 8	9-11	10- 1	10- 4	10- 7	10- 9
475.00	9- 8	10- 0	10- 3	10- 6	10- 9	11- 0	11- 3	11- 6	11- 9	12- 0
500.00	10- 9	11- 1	11- 4	11- 8	11-11	12- 3	12- 6	12- 9	13- 0	13- 4
525.00	11-10	12- 2	12- 6	12-10	13- 2	13- 6	13- 9	14- 1	14- 5	14- 8
550.00	13- 0	13- 5	13- 9	14- 1	14- 5	14- 9	15- 1	15- 5	15- 9	16- 1
575.00	14- 3	14- 8	15- 0	15- 5	15- 9	16- 2	16- 6	16-11	17- 3	17- 7
600.00	15- 6	15-11	16- 4	16- 9	17- 2	17- 7	18- 0	18- 5	18- 9	19- 2
625.00	16-10	17- 3	17- 9	18- 2	18- 8	19- 1	19- 6	20- 0	20- 5	20-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2- 9	2-10	2-10	2-11	3- 0	3- 1	3- 2	3- 3	3- 3	3- 4
275.00	3- 4	3- 5	3- 6	3- 7	3- 8	3- 9	3-10	3-11	4- 0	4- 1
300.00	3-11	4- 0	4- 2	4- 3	4- 4	4- 5	4- 6	4- 8	4- 9	4-10
325.00	4- 7	4- 9	4-10	5- 0	5- 1	5- 2	5- 4	5- 5	5- 7	5- 8
350.00	5- 4	5- 6	5- 7	5- 9	5-11	6- 0	6- 2	6- 4	6- 5	6- 7
375.00	6- 1	6- 4	6- 5	6- 7	6- 9	6-11	7- 1	7- 3	7- 5	7- 6
400.00	7- 0	7- 2	7- 4	7- 6	7- 9	7-11	8- 1	8- 3	8- 5	8- 7
425.00	7-10	8- 1	8- 4	8- 6	8- 8	8-11	9- 1	9- 4	9- 6	9- 8
450.00	8-10	9- 1	9- 4	9- 6	9- 9	10- 0	10- 2	10- 5	10- 8	10-10
475.00	9-10	10- 1	10- 4	10- 7	10-10	11- 1	11- 4	11- 7	11-10	12- 1
500.00	10-11	11- 2	11- 6	11- 9	12- 1	12- 4	12- 7	12-10	13- 2	13- 5
525.00	12- 0	12- 4	12- 8	13- 0	13- 3	13- 7	13-11	14- 2	14- 6	14- 9
550.00	13- 2	13- 6	13-11	14- 3	14- 7	14-11	15- 3	15- 7	15-11	16- 2
575.00	14- 5	14-10	15- 2	15- 7	15-11	16- 4	16- 8	17- 0	17- 4	17- 9
600.00	15- 8	16- 1	16- 6	16-11	17- 4	17- 9	18- 2	18- 6	18-11	19- 3
625.00	17- 0	17- 6	17-11	18- 5	18-10	19- 3	19- 8	20- 1	20- 6	20-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.161

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	0.39	2000	0.39	2000*
0	0	0	0	0.197	0.11	2180	0.11	2180
30	0	0	0	0.197	0.14	1810	0.14	1824
40	0	0	0	0.197	0.15	1680	0.14	1703
50	0	0	0	0.197	0.16	1551	0.16	1582
60	0	0	0	0.197	0.17	1422	0.17	1460
70	0	0	0	0.197	0.19	1294	0.18	1338
80	0	0	0	0.197	0.21	1167	0.2	1216
90	0	0	0	0.197	0.24	1042	0.23	1093
100	0	0	0	0.197	0.27	918	0.25	972
110	0	0	0	0.197	0.31	798	0.29	853
120	0	0	0	0.197	0.36	682	0.33	737
130	0	0	0	0.197	0.43	575	0.39	626
167	0	0	0	0.197	0.76	323	0.68	364
212	0	0	0	0.197	1.22	202	1.12	219

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	1.57	2000	1.57	2000*
0	0	0	0	0.197	0.49	2011	0.49	2011
30	0	0	0	0.197	0.6	1637	0.59	1661
40	0	0	0	0.197	0.65	1513	0.64	1545
50	0	0	0	0.197	0.71	1391	0.69	1429
60	0	0	0	0.197	0.77	1272	0.75	1314
70	0	0	0	0.197	0.85	1155	0.82	1200
80	0	0	0	0.197	0.94	1042	0.9	1090
90	0	0	0	0.197	1.05	936	1	983
100	0	0	0	0.197	1.18	836	1.12	882
110	0	0	0	0.197	1.32	745	1.25	788
120	0	0	0	0.197	1.48	664	1.4	702
130	0	0	0	0.197	1.66	594	1.57	627
167	0	0	0	0.197	2.29	430	2.17	455
212	0	0	0	0.197	3.01	327	2.88	342

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.162

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	3.53	2000	3.53	2000*
0	0	0	0	0.197	1.28	1730	1.27	1744
30	0	0	0	0.197	1.6	1384	1.56	1418
40	0	0	0	0.197	1.74	1275	1.69	1313
50	0	0	0	0.197	1.89	1172	1.83	1212
60	0	0	0	0.197	2.06	1074	1.99	1116
70	0	0	0	0.197	2.25	984	2.16	1025
80	0	0	0	0.197	2.46	901	2.36	940
90	0	0	0	0.197	2.68	827	2.57	862
100	0	0	0	0.197	2.92	760	2.8	792
110	0	0	0	0.197	3.16	702	3.04	730
120	0	0	0	0.197	3.41	651	3.28	675
130	0	0	0	0.197	3.66	607	3.53	628
167	0	0	0	0.197	4.5	493	4.35	510
212	0	0	0	0.197	5.41	410	5.26	422

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	6.27	2000	6.27	2000*
0	0	0	0	0.197	2.83	1394	2.77	1423
30	0	0	0	0.197	3.51	1122	3.4	1158
40	0	0	0	0.197	3.78	1044	3.65	1079
50	0	0	0	0.197	4.05	973	3.92	1007
60	0	0	0	0.197	4.34	909	4.19	940
70	0	0	0	0.197	4.63	851	4.48	880
80	0	0	0	0.197	4.93	799	4.77	826
90	0	0	0	0.197	5.23	753	5.07	777
100	0	0	0	0.197	5.53	712	5.38	733
110	0	0	0	0.197	5.83	676	5.68	694
120	0	0	0	0.197	6.13	643	5.98	659
130	0	0	0	0.197	6.42	614	6.28	628
167	0	0	0	0.197	7.4	533	7.24	545
212	0	0	0	0.197	8.46	467	8.29	476

* Design Condition

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SDG&E DISTRIBUTION SAG AND TENSION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.163

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	9.81	2000	9.81	2000*
0	0	0	0	0.197	5.56	1107	5.42	1137
30	0	0	0	0.197	6.59	935	6.41	961
40	0	0	0	0.197	6.94	888	6.75	913
50	0	0	0	0.197	7.29	845	7.1	868
60	0	0	0	0.197	7.64	807	7.45	828
70	0	0	0	0.197	7.98	772	7.79	791
80	0	0	0	0.197	8.33	740	8.14	757
90	0	0	0	0.197	8.67	711	8.48	727
100	0	0	0	0.197	9	685	8.82	699
110	0	0	0	0.197	9.33	661	9.16	673
120	0	0	0	0.197	9.65	639	9.49	650
130	0	0	0	0.197	9.97	618	9.82	628
167	0	0	0	0.197	11.05	558	10.87	567
212	0	0	0	0.197	12.21	505	12.03	513

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.164

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5
150.00	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11
200.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4
125.00	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6
150.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11
200.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.165

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-8
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-3
225.00	0-8	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-5	1-7
250.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	1-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-6
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
175.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-2	1-4
225.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-8
250.00	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.166

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9
175.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11	1-0
200.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
225.00	0-10	0-11	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-8
250.00	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-1
275.00	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-7
300.00	1-5	1-7	1-8	1-10	2-0	2-2	2-4	2-7	2-10	3-0
325.00	1-8	1-10	2-0	2-2	2-4	2-6	2-9	3-0	3-3	3-7
350.00	2-0	2-2	2-4	2-6	2-8	2-11	3-3	3-6	3-10	4-2
375.00	2-3	2-5	2-8	2-10	3-1	3-5	3-8	4-0	4-4	4-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-9
175.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
200.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5
225.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-9
250.00	1-0	1-1	1-2	1-4	1-5	1-7	1-8	1-10	2-0	2-2
275.00	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-5	2-8
300.00	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-11	3-2
325.00	1-9	1-11	2-0	2-3	2-5	2-8	2-11	3-2	3-5	3-8
350.00	2-0	2-2	2-4	2-7	2-10	3-1	3-4	3-8	4-0	4-4
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.167

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5
225.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-10
250.00	1-3	1-4	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-3
275.00	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-5	2-6	2-8
300.00	1-9	1-11	2-1	2-2	2-4	2-6	2-8	2-10	3-0	3-2
325.00	2-1	2-3	2-5	2-7	2-9	2-11	3-2	3-4	3-7	3-9
350.00	2-5	2-7	2-10	3-0	3-3	3-5	3-8	3-11	4-1	4-4
375.00	2-9	3-0	3-3	3-5	3-8	3-11	4-2	4-6	4-9	5-0
400.00	3-2	3-5	3-8	3-11	4-2	4-6	4-9	5-1	5-5	5-8
425.00	3-7	3-10	4-1	4-5	4-9	5-1	5-5	5-9	6-1	6-5
450.00	4-0	4-4	4-7	4-11	5-4	5-8	6-1	6-5	6-10	7-2
475.00	4-6	4-10	5-2	5-6	5-11	6-4	6-9	7-2	7-7	8-0
500.00	5-0	5-4	5-8	6-1	6-7	7-0	7-6	7-11	8-5	8-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-5
225.00	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8	1-9	1-10
250.00	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-1	2-2	2-3
275.00	1-7	1-8	1-9	1-11	2-1	2-2	2-4	2-6	2-7	2-9
300.00	1-10	2-0	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-3
325.00	2-2	2-4	2-6	2-8	2-10	3-1	3-3	3-5	3-8	3-10
350.00	2-6	2-8	2-11	3-1	3-4	3-7	3-9	4-0	4-3	4-6
375.00	2-10	3-1	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-2
400.00	3-3	3-6	3-9	4-1	4-4	4-8	4-11	5-3	5-6	5-10
425.00	3-8	4-0	4-3	4-7	4-11	5-3	5-7	5-11	6-3	6-7
450.00	4-2	4-5	4-9	5-2	5-6	5-10	6-3	6-7	7-0	7-5
475.00	4-7	4-11	5-4	5-9	6-1	6-6	6-11	7-5	7-10	8-3
500.00	5-1	5-6	5-11	6-4	6-9	7-3	7-8	8-2	8-8	9-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.168

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3
275.00	1-10	1-11	2-1	2-2	2-3	2-4	2-6	2-7	2-8	2-9
300.00	2-2	2-4	2-5	2-7	2-8	2-10	2-11	3-1	3-2	3-4
325.00	2-7	2-8	2-10	3-0	3-2	3-4	3-5	3-7	3-9	3-10
350.00	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2	4-4	4-6
375.00	3-5	3-7	3-10	4-0	4-2	4-5	4-7	4-9	5-0	5-2
400.00	3-11	4-1	4-4	4-7	4-9	5-0	5-3	5-5	5-8	5-10
425.00	4-5	4-8	4-11	5-2	5-5	5-8	5-11	6-2	6-4	6-7
450.00	4-11	5-2	5-6	5-9	6-0	6-4	6-7	6-10	7-2	7-5
475.00	5-6	5-9	6-1	6-5	6-9	7-0	7-4	7-8	8-0	8-3
500.00	6-1	6-5	6-9	7-1	7-5	7-10	8-2	8-6	8-10	9-2
525.00	6-8	7-1	7-5	7-10	8-3	8-7	9-0	9-4	9-9	10-1
550.00	7-4	7-9	8-2	8-7	9-0	9-5	9-10	10-3	10-8	11-1
575.00	8-0	8-6	8-11	9-5	9-10	10-4	10-9	11-3	11-8	12-1
600.00	8-9	9-3	9-9	10-3	10-9	11-3	11-9	12-3	12-8	13-2
625.00	9-6	10-0	10-7	11-1	11-8	12-2	12-9	13-3	13-9	14-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
275.00	1-11	2-0	2-1	2-2	2-4	2-5	2-6	2-7	2-9	2-10
300.00	2-3	2-4	2-6	2-7	2-9	2-10	3-0	3-1	3-3	3-4
325.00	2-8	2-9	2-11	3-1	3-3	3-4	3-6	3-8	3-10	3-11
350.00	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-7
375.00	3-6	3-8	3-11	4-1	4-4	4-6	4-8	4-10	5-1	5-3
400.00	4-0	4-3	4-5	4-8	4-11	5-1	5-4	5-7	5-9	6-0
425.00	4-6	4-9	5-0	5-3	5-6	5-9	6-0	6-3	6-6	6-9
450.00	5-1	5-4	5-7	5-11	6-2	6-6	6-9	7-0	7-3	7-7
475.00	5-8	5-11	6-3	6-7	6-11	7-2	7-6	7-10	8-1	8-5
500.00	6-3	6-7	6-11	7-3	7-8	8-0	8-4	8-8	9-0	9-4
525.00	6-11	7-3	7-8	8-0	8-5	8-10	9-2	9-7	9-11	10-3
550.00	7-7	8-0	8-5	8-10	9-3	9-8	10-1	10-6	10-11	11-3
575.00	8-3	8-9	9-2	9-8	10-1	10-7	11-0	11-6	11-11	12-4
600.00	9-0	9-6	10-0	10-6	11-0	11-6	12-0	12-6	13-0	13-5
625.00	9-9	10-4	10-10	11-5	11-11	12-6	13-0	13-7	14-1	14-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.169

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	0.32	2458	0.31	2500*
0	0	0	0	0.197	0.09	2679	0.09	2694
30	0	0	0	0.197	0.11	2288	0.1	2347
40	0	0	0	0.197	0.11	2158	0.11	2229
50	0	0	0	0.197	0.12	2028	0.12	2110
60	0	0	0	0.197	0.13	1898	0.12	1990
70	0	0	0	0.197	0.14	1768	0.13	1869
80	0	0	0	0.197	0.15	1639	0.14	1747
90	0	0	0	0.197	0.16	1510	0.15	1624
100	0	0	0	0.197	0.18	1382	0.16	1500
110	0	0	0	0.197	0.2	1254	0.18	1376
120	0	0	0	0.197	0.22	1127	0.2	1252
130	0	0	0	0.197	0.25	1002	0.22	1128
167	0	0	0	0.197	0.41	605	0.35	703
212	0	0	0	0.197	0.79	311	0.65	377

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	1.27	2476	1.25	2500*
0	0	0	0	0.197	0.38	2577	0.38	2588
30	0	0	0	0.197	0.45	2191	0.44	2242
40	0	0	0	0.197	0.48	2063	0.46	2125
50	0	0	0	0.197	0.51	1935	0.49	2008
60	0	0	0	0.197	0.54	1809	0.52	1889
70	0	0	0	0.197	0.59	1683	0.56	1771
80	0	0	0	0.197	0.63	1559	0.6	1652
90	0	0	0	0.197	0.69	1436	0.64	1533
100	0	0	0	0.197	0.75	1315	0.7	1415
110	0	0	0	0.197	0.82	1197	0.76	1298
120	0	0	0	0.197	0.91	1083	0.83	1184
130	0	0	0	0.197	1.01	974	0.92	1072
167	0	0	0	0.197	1.5	655	1.37	721
212	0	0	0	0.197	2.22	443	2.03	486

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.170

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	2.82	2499	2.82	2500*
0	0	0	0	0.197	0.92	2410	0.92	2413
30	0	0	0	0.197	1.09	2035	1.07	2073
40	0	0	0	0.197	1.16	1912	1.13	1959
50	0	0	0	0.197	1.24	1790	1.2	1845
60	0	0	0	0.197	1.33	1671	1.28	1732
70	0	0	0	0.197	1.43	1553	1.37	1619
80	0	0	0	0.197	1.54	1439	1.47	1508
90	0	0	0	0.197	1.67	1329	1.58	1400
100	0	0	0	0.197	1.81	1223	1.71	1294
110	0	0	0	0.197	1.98	1122	1.86	1192
120	0	0	0	0.197	2.16	1028	2.03	1094
130	0	0	0	0.197	2.35	942	2.21	1003
167	0	0	0	0.197	3.18	696	3.01	737
212	0	0	0	0.197	4.16	533	3.95	562

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	5.02	2500	5.02	2500*
0	0	0	0	0.197	1.83	2157	1.81	2179
30	0	0	0	0.197	2.18	1805	2.13	1853
40	0	0	0	0.197	2.33	1692	2.26	1746
50	0	0	0	0.197	2.49	1583	2.4	1641
60	0	0	0	0.197	2.67	1477	2.56	1539
70	0	0	0	0.197	2.86	1377	2.74	1439
80	0	0	0	0.197	3.08	1281	2.93	1344
90	0	0	0	0.197	3.31	1191	3.15	1252
100	0	0	0	0.197	3.56	1108	3.38	1166
110	0	0	0	0.197	3.82	1031	3.63	1085
120	0	0	0	0.197	4.1	961	3.9	1011
130	0	0	0	0.197	4.39	898	4.18	943
167	0	0	0	0.197	5.46	723	5.26	750
212	0	0	0	0.197	6.63	595	6.41	615

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.171

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	7.84	2500	7.84	2500*
0	0	0	0	0.197	3.3	1866	3.23	1904
30	0	0	0	0.197	3.95	1557	3.82	1611
40	0	0	0	0.197	4.21	1463	4.06	1519
50	0	0	0	0.197	4.48	1374	4.31	1430
60	0	0	0	0.197	4.77	1291	4.57	1346
70	0	0	0	0.197	5.07	1214	4.86	1267
80	0	0	0	0.197	5.39	1142	5.16	1193
90	0	0	0	0.197	5.72	1076	5.48	1124
100	0	0	0	0.197	6.06	1016	5.81	1060
110	0	0	0	0.197	6.41	961	6.15	1002
120	0	0	0	0.197	6.76	912	6.5	948
130	0	0	0	0.197	7.11	867	6.85	900
167	0	0	0	0.197	8.35	738	8.12	759
212	0	0	0	0.197	9.68	637	9.44	653

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.172

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.173

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
225.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0
250.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-2

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8
200.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10
225.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0
250.00	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.174

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-8
200.00	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10
225.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1
250.00	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-4
275.00	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7
300.00	1-0	1-1	1-2	1-2	1-3	1-4	1-6	1-7	1-9	1-10
325.00	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	2-0	2-2
350.00	1-5	1-5	1-6	1-8	1-9	1-10	2-0	2-2	2-4	2-6
375.00	1-7	1-8	1-9	1-11	2-0	2-2	2-4	2-6	2-8	2-11

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11
225.00	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1
250.00	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-4
275.00	0-10	0-11	1-0	1-0	1-1	1-2	1-4	1-5	1-6	1-8
300.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-10	2-0
325.00	1-2	1-3	1-4	1-5	1-7	1-8	1-10	1-11	2-2	2-4
350.00	1-5	1-6	1-7	1-8	1-10	1-11	2-1	2-3	2-6	2-8
375.00	1-7	1-8	1-10	1-11	2-1	2-3	2-5	2-7	2-10	3-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.175

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11
225.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-2
250.00	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5
275.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9
300.00	1-2	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-1
325.00	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-1	2-3	2-5
350.00	1-6	1-8	1-9	1-10	2-0	2-1	2-3	2-5	2-7	2-9
375.00	1-9	1-10	2-0	2-1	2-3	2-5	2-7	2-9	3-0	3-2
400.00	2-0	2-2	2-3	2-5	2-7	2-9	2-11	3-2	3-5	3-8
425.00	2-3	2-5	2-7	2-9	2-11	3-1	3-4	3-7	3-10	4-1
450.00	2-7	2-8	2-10	3-0	3-3	3-6	3-9	4-0	4-3	4-7
475.00	2-10	3-0	3-2	3-5	3-7	3-10	4-2	4-5	4-9	5-1
500.00	3-2	3-4	3-6	3-9	4-0	4-3	4-7	4-11	5-3	5-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-6	0-7	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11
225.00	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3
250.00	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-4	1-5	1-6
275.00	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-10
300.00	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	2-0	2-2
325.00	1-4	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-4	2-6
350.00	1-7	1-8	1-9	1-11	2-1	2-2	2-4	2-6	2-9	2-11
375.00	1-10	1-11	2-1	2-2	2-4	2-6	2-8	2-11	3-2	3-4
400.00	2-1	2-2	2-4	2-6	2-8	2-10	3-1	3-4	3-7	3-10
425.00	2-4	2-6	2-8	2-10	3-0	3-3	3-6	3-9	4-0	4-4
450.00	2-7	2-9	2-11	3-2	3-5	3-7	3-11	4-2	4-6	4-10
475.00	2-11	3-1	3-3	3-6	3-9	4-0	4-4	4-8	5-0	5-5
500.00	3-2	3-5	3-8	3-11	4-2	4-6	4-10	5-2	5-7	6-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.176

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-11	0-11	1-0	1-1	1-2	1-3	1-3	1-4	1-5	1-6
275.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
300.00	1-4	1-5	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-3
325.00	1-6	1-7	1-9	1-10	1-11	2-1	2-2	2-4	2-5	2-7
350.00	1-9	1-10	2-0	2-1	2-3	2-5	2-6	2-8	2-10	3-0
375.00	2-0	2-2	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-6
400.00	2-4	2-5	2-7	2-9	2-11	3-1	3-4	3-6	3-9	3-11
425.00	2-7	2-9	2-11	3-1	3-4	3-6	3-9	4-0	4-2	4-5
450.00	2-11	3-1	3-3	3-6	3-8	3-11	4-2	4-5	4-8	5-0
475.00	3-3	3-5	3-8	3-11	4-2	4-5	4-8	4-11	5-3	5-7
500.00	3-7	3-10	4-1	4-4	4-7	4-10	5-2	5-6	5-10	6-2
525.00	4-0	4-3	4-6	4-9	5-1	5-4	5-8	6-1	6-5	6-9
550.00	4-4	4-8	4-11	5-3	5-6	5-11	6-3	6-8	7-0	7-5
575.00	4-9	5-1	5-4	5-8	6-1	6-5	6-10	7-3	7-8	8-2
600.00	5-2	5-6	5-10	6-2	6-7	7-0	7-5	7-11	8-4	8-10
625.00	5-8	6-0	6-4	6-9	7-2	7-7	8-1	8-7	9-1	9-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7
275.00	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11
300.00	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-1	2-2	2-4
325.00	1-7	1-8	1-9	1-11	2-0	2-2	2-3	2-5	2-7	2-8
350.00	1-10	1-11	2-1	2-2	2-4	2-6	2-8	2-10	3-0	3-2
375.00	2-1	2-3	2-4	2-6	2-8	2-10	3-0	3-3	3-5	3-7
400.00	2-5	2-6	2-8	2-10	3-1	3-3	3-5	3-8	3-11	4-1
425.00	2-8	2-10	3-0	3-3	3-5	3-8	3-11	4-2	4-5	4-8
450.00	3-0	3-2	3-5	3-8	3-10	4-1	4-4	4-8	4-11	5-2
475.00	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-2	5-6	5-9
500.00	3-9	3-11	4-2	4-6	4-9	5-1	5-5	5-9	6-1	6-5
525.00	4-1	4-4	4-8	4-11	5-3	5-7	5-11	6-4	6-8	7-1
550.00	4-6	4-9	5-1	5-5	5-9	6-2	6-6	6-11	7-4	7-9
575.00	4-11	5-3	5-7	5-11	6-4	6-9	7-2	7-7	8-0	8-6
600.00	5-4	5-8	6-1	6-5	6-10	7-4	7-9	8-3	8-9	9-3
625.00	5-10	6-2	6-7	7-0	7-5	7-11	8-5	8-11	9-6	10-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.177

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	0.27	2934	0.26	3000*
0	0	0	0	0.197	0.08	3167	0.08	3198
30	0	0	0	0.197	0.09	2776	0.09	2863
40	0	0	0	0.197	0.09	2645	0.09	2748
50	0	0	0	0.197	0.1	2515	0.09	2633
60	0	0	0	0.197	0.1	2385	0.1	2516
70	0	0	0	0.197	0.11	2254	0.1	2398
80	0	0	0	0.197	0.12	2124	0.11	2278
90	0	0	0	0.197	0.12	1994	0.11	2157
100	0	0	0	0.197	0.13	1865	0.12	2036
110	0	0	0	0.197	0.14	1735	0.13	1913
120	0	0	0	0.197	0.15	1606	0.14	1789
130	0	0	0	0.197	0.17	1477	0.15	1664
167	0	0	0	0.197	0.24	1021	0.21	1199
212	0	0	0	0.197	0.42	592	0.34	725

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	1.06	2948	1.04	3000*
0	0	0	0	0.197	0.32	3095	0.32	3126
30	0	0	0	0.197	0.36	2706	0.35	2791
40	0	0	0	0.197	0.38	2577	0.37	2677
50	0	0	0	0.197	0.4	2448	0.38	2562
60	0	0	0	0.197	0.42	2319	0.4	2445
70	0	0	0	0.197	0.45	2191	0.42	2328
80	0	0	0	0.197	0.48	2063	0.45	2209
90	0	0	0	0.197	0.51	1936	0.47	2090
100	0	0	0	0.197	0.54	1809	0.5	1970
110	0	0	0	0.197	0.59	1684	0.53	1850
120	0	0	0	0.197	0.63	1559	0.57	1729
130	0	0	0	0.197	0.69	1436	0.61	1608
167	0	0	0	0.197	0.97	1015	0.84	1170
212	0	0	0	0.197	1.48	665	1.29	761

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.178

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.627	2.38	2966	2.35	3000*
0	0	0	0	0.197	0.74	2976	0.74	3006
30	0	0	0	0.197	0.85	2593	0.83	2672
40	0	0	0	0.197	0.9	2466	0.87	2559
50	0	0	0	0.197	0.95	2340	0.91	2445
60	0	0	0	0.197	1	2214	0.95	2330
70	0	0	0	0.197	1.06	2089	1	2214
80	0	0	0	0.197	1.13	1966	1.06	2098
90	0	0	0	0.197	1.2	1844	1.12	1982
100	0	0	0	0.197	1.29	1723	1.19	1866
110	0	0	0	0.197	1.38	1605	1.27	1751
120	0	0	0	0.197	1.49	1489	1.35	1636
130	0	0	0	0.197	1.61	1377	1.46	1523
167	0	0	0	0.197	2.2	1009	1.96	1130
212	0	0	0	0.197	3.05	728	2.78	797

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.627	4.2	2986	4.18	3000*
0	0	0	0	0.197	1.4	2814	1.39	2842
30	0	0	0	0.197	1.61	2440	1.57	2511
40	0	0	0	0.197	1.7	2317	1.64	2399
50	0	0	0	0.197	1.79	2195	1.72	2288
60	0	0	0	0.197	1.9	2075	1.81	2176
70	0	0	0	0.197	2.01	1957	1.91	2065
80	0	0	0	0.197	2.14	1841	2.02	1954
90	0	0	0	0.197	2.28	1727	2.14	1843
100	0	0	0	0.197	2.44	1617	2.27	1735
110	0	0	0	0.197	2.61	1510	2.42	1628
120	0	0	0	0.197	2.8	1408	2.59	1524
130	0	0	0	0.197	3.01	1310	2.77	1423
167	0	0	0	0.197	3.93	1003	3.61	1091
212	0	0	0	0.197	5.07	778	4.77	827

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.179

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	6.53	3000	6.53	3000*
0	0	0	0	0.197	2.36	2605	2.34	2636
30	0	0	0	0.197	2.74	2247	2.66	2314
40	0	0	0	0.197	2.89	2131	2.79	2207
50	0	0	0	0.197	3.05	2017	2.93	2100
60	0	0	0	0.197	3.23	1906	3.09	1995
70	0	0	0	0.197	3.42	1798	3.26	1890
80	0	0	0	0.197	3.64	1694	3.44	1788
90	0	0	0	0.197	3.86	1593	3.65	1689
100	0	0	0	0.197	4.11	1498	3.87	1592
110	0	0	0	0.197	4.38	1407	4.11	1499
120	0	0	0	0.197	4.66	1321	4.37	1409
130	0	0	0	0.197	4.96	1242	4.65	1325
167	0	0	0	0.197	6.17	999	5.82	1059
212	0	0	0	0.197	7.54	818	7.25	850

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5
200.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.181

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6
225.00	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-8	0-8
250.00	0-6	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-7	0-7
225.00	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-10	0-10	0-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.182

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
225.00	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-11
275.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1
300.00	0-10	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3
325.00	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6
350.00	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-9
375.00	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-9	1-10	2-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7
225.00	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0
275.00	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-2
300.00	0-10	0-10	0-11	0-11	1-0	1-1	1-2	1-2	1-3	1-5
325.00	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7
350.00	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-8	1-9	1-11
375.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.183

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7
225.00	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9
250.00	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-11	0-11
275.00	0-9	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-2
300.00	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4
325.00	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-7
350.00	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
375.00	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-2
400.00	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-2	2-3	2-5
425.00	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-5	2-7	2-9
450.00	1-11	2-0	2-1	2-2	2-4	2-5	2-7	2-8	2-10	3-1
475.00	2-1	2-3	2-4	2-5	2-7	2-8	2-10	3-0	3-2	3-5
500.00	2-4	2-5	2-7	2-8	2-10	3-0	3-2	3-4	3-7	3-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8
225.00	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10
250.00	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-11	0-11	1-0
275.00	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-2	1-3
300.00	0-10	0-11	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-6
325.00	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9
350.00	1-2	1-3	1-4	1-4	1-5	1-7	1-8	1-9	1-10	2-0
375.00	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-2	2-4
400.00	1-6	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-5	2-7
425.00	1-9	1-10	1-11	2-0	2-2	2-3	2-5	2-7	2-9	2-11
450.00	1-11	2-1	2-2	2-3	2-5	2-7	2-9	2-11	3-1	3-4
475.00	2-2	2-3	2-5	2-6	2-8	2-10	3-0	3-3	3-5	3-8
500.00	2-5	2-6	2-8	2-10	3-0	3-2	3-4	3-7	3-10	4-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.184

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-8	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-0
275.00	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-3
300.00	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6
325.00	1-1	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-8	1-9
350.00	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0
375.00	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-4
400.00	1-8	1-8	1-9	1-11	2-0	2-1	2-2	2-4	2-6	2-8
425.00	1-10	1-11	2-0	2-1	2-3	2-4	2-6	2-8	2-10	3-0
450.00	2-1	2-2	2-3	2-4	2-6	2-8	2-9	2-11	3-2	3-4
475.00	2-4	2-5	2-6	2-8	2-9	2-11	3-1	3-3	3-6	3-9
500.00	2-7	2-8	2-9	2-11	3-1	3-3	3-5	3-8	3-10	4-1
525.00	2-10	2-11	3-1	3-3	3-5	3-7	3-10	4-0	4-3	4-6
550.00	3-1	3-3	3-5	3-7	3-9	3-11	4-2	4-5	4-8	5-0
575.00	3-4	3-6	3-8	3-11	4-1	4-4	4-7	4-10	5-1	5-5
600.00	3-8	3-10	4-0	4-3	4-5	4-8	5-0	5-3	5-7	5-11
625.00	4-0	4-2	4-4	4-7	4-10	5-1	5-5	5-8	6-1	6-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1
275.00	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4
300.00	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
325.00	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-8	1-9	1-10
350.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-2
375.00	1-6	1-6	1-8	1-9	1-10	1-11	2-1	2-2	2-4	2-6
400.00	1-8	1-9	1-10	1-11	2-1	2-2	2-4	2-6	2-8	2-10
425.00	1-11	2-0	2-1	2-2	2-4	2-6	2-8	2-10	3-0	3-2
450.00	2-1	2-3	2-4	2-6	2-7	2-9	2-11	3-2	3-4	3-7
475.00	2-4	2-6	2-7	2-9	2-11	3-1	3-3	3-6	3-9	3-11
500.00	2-7	2-9	2-11	3-1	3-3	3-5	3-8	3-10	4-1	4-5
525.00	2-10	3-0	3-2	3-4	3-7	3-9	4-0	4-3	4-6	4-10
550.00	3-2	3-4	3-6	3-8	3-11	4-2	4-5	4-8	5-0	5-4
575.00	3-5	3-7	3-10	4-0	4-3	4-6	4-10	5-1	5-5	5-9
600.00	3-9	3-11	4-2	4-5	4-8	4-11	5-3	5-7	5-11	6-4
625.00	4-1	4-3	4-6	4-9	5-1	5-4	5-8	6-0	6-5	6-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	0.23	3431	0.22	3500*
0	0	0	0	0.197	0.07	3672	0.07	3695
30	0	0	0	0.197	0.08	3280	0.07	3375
40	0	0	0	0.197	0.08	3149	0.08	3265
50	0	0	0	0.197	0.08	3019	0.08	3154
60	0	0	0	0.197	0.09	2888	0.08	3041
70	0	0	0	0.197	0.09	2758	0.08	2927
80	0	0	0	0.197	0.09	2628	0.09	2811
90	0	0	0	0.197	0.1	2497	0.09	2694
100	0	0	0	0.197	0.1	2367	0.1	2576
110	0	0	0	0.197	0.11	2237	0.1	2457
120	0	0	0	0.197	0.12	2107	0.11	2336
130	0	0	0	0.197	0.12	1977	0.11	2214
167	0	0	0	0.197	0.16	1498	0.14	1753
212	0	0	0	0.197	0.24	1017	0.21	1180

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	0.91	3441	0.9	3500*
0	0	0	0	0.197	0.27	3618	0.27	3644
30	0	0	0	0.197	0.31	3228	0.3	3323
40	0	0	0	0.197	0.32	3098	0.31	3213
50	0	0	0	0.197	0.33	2969	0.32	3102
60	0	0	0	0.197	0.35	2839	0.33	2989
70	0	0	0	0.197	0.36	2710	0.34	2875
80	0	0	0	0.197	0.38	2580	0.36	2760
90	0	0	0	0.197	0.4	2451	0.37	2644
100	0	0	0	0.197	0.42	2323	0.39	2526
110	0	0	0	0.197	0.45	2194	0.41	2407
120	0	0	0	0.197	0.48	2066	0.43	2288
130	0	0	0	0.197	0.51	1939	0.45	2167
167	0	0	0	0.197	0.67	1476	0.57	1715
212	0	0	0	0.197	0.96	1029	0.84	1172

* Design Condition

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SHEET 186 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.186

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Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.627	2.04	3455	2.02	3500*
0	0	0	0	0.197	0.63	3530	0.62	3559
30	0	0	0	0.197	0.71	3143	0.68	3238
40	0	0	0	0.197	0.74	3015	0.71	3128
50	0	0	0	0.197	0.77	2886	0.73	3017
60	0	0	0	0.197	0.8	2758	0.76	2904
70	0	0	0	0.197	0.84	2631	0.79	2791
80	0	0	0	0.197	0.89	2504	0.83	2677
90	0	0	0	0.197	0.93	2377	0.87	2561
100	0	0	0	0.197	0.98	2251	0.91	2445
110	0	0	0	0.197	1.04	2126	0.95	2328
120	0	0	0	0.197	1.11	2002	1	2210
130	0	0	0	0.197	1.18	1880	1.06	2092
167	0	0	0	0.197	1.54	1444	1.34	1657
212	0	0	0	0.197	2.12	1043	1.91	1162

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.627	3.61	3471	3.58	3500*
0	0	0	0	0.197	1.16	3409	1.15	3441
30	0	0	0	0.197	1.3	3026	1.26	3119
40	0	0	0	0.197	1.36	2900	1.31	3010
50	0	0	0	0.197	1.42	2774	1.36	2899
60	0	0	0	0.197	1.49	2649	1.41	2788
70	0	0	0	0.197	1.56	2524	1.47	2676
80	0	0	0	0.197	1.64	2400	1.54	2563
90	0	0	0	0.197	1.73	2278	1.61	2450
100	0	0	0	0.197	1.83	2157	1.69	2336
110	0	0	0	0.197	1.93	2037	1.77	2222
120	0	0	0	0.197	2.05	1919	1.87	2108
130	0	0	0	0.197	2.18	1804	1.98	1995
167	0	0	0	0.197	2.8	1406	2.48	1587
212	0	0	0	0.197	3.73	1058	3.42	1153

* Design Condition

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SHEET 187 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.187

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	0.627	5.62	3489	5.6	3500*
0	0	0	0	0.197	1.89	3255	1.87	3290
30	0	0	0	0.197	2.14	2880	2.07	2970
40	0	0	0	0.197	2.23	2757	2.15	2862
50	0	0	0	0.197	2.34	2635	2.24	2753
60	0	0	0	0.197	2.45	2514	2.33	2643
70	0	0	0	0.197	2.57	2394	2.43	2533
80	0	0	0	0.197	2.71	2275	2.54	2423
90	0	0	0	0.197	2.85	2159	2.66	2313
100	0	0	0	0.197	3.01	2045	2.79	2204
110	0	0	0	0.197	3.19	1933	2.94	2095
120	0	0	0	0.197	3.37	1824	3.1	1988
130	0	0	0	0.197	3.58	1719	3.27	1882
167	0	0	0	0.197	4.5	1367	4.07	1512
212	0	0	0	0.197	5.75	1071	5.38	1144

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-0	0-0	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
200.00	0-3	0-4	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-0	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
200.00	0-3	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.189

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
200.00	0-3	0-4	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5
225.00	0-4	0-5	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6
250.00	0-5	0-6	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5
225.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7
250.00	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.190

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5
225.00	0-4	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6
250.00	0-6	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8
275.00	0-7	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10
300.00	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-10	0-11	0-11
325.00	0-9	0-10	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1
350.00	0-11	0-11	1-0	1-0	1-0	1-1	1-2	1-2	1-3	1-4
375.00	1-0	1-1	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6
225.00	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7
250.00	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9
275.00	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-11
300.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1
325.00	0-10	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-3
350.00	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-4	1-5
375.00	1-1	1-1	1-2	1-2	1-3	1-4	1-5	1-5	1-6	1-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.191

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5
225.00	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7
250.00	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8
275.00	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-10
300.00	0-8	0-9	0-9	0-9	0-10	0-10	0-10	0-11	0-11	1-0
325.00	0-10	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2
350.00	0-11	1-0	1-0	1-0	1-1	1-2	1-2	1-3	1-3	1-4
375.00	1-1	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6	1-7
400.00	1-3	1-3	1-4	1-4	1-5	1-6	1-6	1-7	1-8	1-9
425.00	1-5	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-11	2-0
450.00	1-7	1-7	1-8	1-9	1-9	1-10	1-11	2-0	2-2	2-3
475.00	1-9	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-5	2-6
500.00	1-11	2-0	2-1	2-1	2-2	2-4	2-5	2-6	2-8	2-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6
225.00	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7
250.00	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9
275.00	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-10	0-11
300.00	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1
325.00	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3
350.00	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6
375.00	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-8
400.00	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
425.00	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-11	2-1	2-2
450.00	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-4	2-5
475.00	1-9	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-7	2-9
500.00	1-11	2-0	2-1	2-3	2-4	2-5	2-7	2-8	2-10	3-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.192

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8	0-9
275.00	0-7	0-8	0-8	0-8	0-8	0-9	0-9	0-10	0-10	0-11
300.00	0-9	0-9	0-9	0-10	0-10	0-10	0-11	0-11	1-0	1-1
325.00	0-10	0-11	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3
350.00	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-4	1-4	1-5
375.00	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-6	1-7	1-8
400.00	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-8	1-9	1-11
425.00	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-11	2-0	2-1
450.00	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-5
475.00	1-10	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-6	2-8
500.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-8	2-10	2-11
525.00	2-2	2-3	2-4	2-6	2-7	2-8	2-10	2-11	3-1	3-3
550.00	2-5	2-6	2-7	2-8	2-10	2-11	3-1	3-3	3-5	3-7
575.00	2-8	2-9	2-10	2-11	3-1	3-3	3-4	3-6	3-8	3-11
600.00	2-11	3-0	3-1	3-3	3-4	3-6	3-8	3-10	4-0	4-3
625.00	3-2	3-3	3-4	3-6	3-8	3-10	4-0	4-2	4-4	4-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10
275.00	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0
300.00	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2
325.00	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4
350.00	1-0	1-1	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-7
375.00	1-2	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-9
400.00	1-4	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0
425.00	1-6	1-7	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-4
450.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-7
475.00	1-10	1-11	2-0	2-1	2-3	2-4	2-5	2-7	2-9	2-10
500.00	2-1	2-2	2-3	2-4	2-5	2-7	2-8	2-10	3-0	3-2
525.00	2-3	2-4	2-6	2-7	2-8	2-10	3-0	3-2	3-4	3-6
550.00	2-6	2-7	2-8	2-10	3-0	3-1	3-3	3-5	3-8	3-10
575.00	2-9	2-10	2-11	3-1	3-3	3-5	3-7	3-9	4-0	4-3
600.00	2-11	3-1	3-3	3-4	3-6	3-8	3-11	4-1	4-4	4-7
625.00	3-2	3-4	3-6	3-8	3-10	4-0	4-3	4-5	4-8	5-0

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SHEET 193 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.193

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.032	1.29	1000	1.29	1000*
0	0	0	0	0.197	0.41	599	0.4	621
30	0	0	0	0.197	0.7	350	0.67	369
40	0	0	0	0.197	0.82	300	0.78	314
50	0	0	0	0.197	0.94	262	0.9	273
60	0	0	0	0.197	1.06	233	1.02	241
70	0	0	0	0.197	1.17	211	1.13	217
80	0	0	0	0.197	1.27	194	1.24	198
90	0	0	0	0.197	1.37	180	1.34	184
100	0	0	0	0.197	1.47	168	1.42	173
110	0	0	0	0.197	1.55	159	1.51	164
120	0	0	0	0.197	1.63	151	1.59	155
130	0	0	0	0.197	1.71	144	1.66	148
167	0	0	0	0.197	1.97	125	1.93	128
212	0	0	0	0.197	2.25	110	2.21	112

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.032	5.17	1000	5.17	1000*
0	0	0	0	0.197	4.18	236	4.12	239
30	0	0	0	0.197	4.57	216	4.52	218
40	0	0	0	0.197	4.69	210	4.64	213
50	0	0	0	0.197	4.81	205	4.77	207
60	0	0	0	0.197	4.93	200	4.89	202
70	0	0	0	0.197	5.04	196	5.01	197
80	0	0	0	0.197	5.15	192	5.12	193
90	0	0	0	0.197	5.26	188	5.23	189
100	0	0	0	0.197	5.37	184	5.33	185
110	0	0	0	0.197	5.48	180	5.42	182
120	0	0	0	0.197	5.57	177	5.52	179
130	0	0	0	0.197	5.66	174	5.61	176
167	0	0	0	0.197	6	165	5.95	166
212	0	0	0	0.197	6.39	155	6.34	156

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	11.68	1000	11.68	1000*
0	0	0	0	0.197	10.72	208	10.67	209
30	0	0	0	0.197	11.08	201	11.04	202
40	0	0	0	0.197	11.2	199	11.16	200
50	0	0	0	0.197	11.32	197	11.28	198
60	0	0	0	0.197	11.43	195	11.4	196
70	0	0	0	0.197	11.55	193	11.51	194
80	0	0	0	0.197	11.66	191	11.63	192
90	0	0	0	0.197	11.77	189	11.74	190
100	0	0	0	0.197	11.89	188	11.84	188
110	0	0	0	0.197	11.99	186	11.94	187
120	0	0	0	0.197	12.09	184	12.04	185
130	0	0	0	0.197	12.19	183	12.14	184
167	0	0	0	0.197	12.55	178	12.5	179
212	0	0	0	0.197	12.98	172	12.93	173

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	20.87	1000	20.87	1000*
0	0	0	0	0.197	19.92	200	19.86	200
30	0	0	0	0.197	20.27	196	20.23	197
40	0	0	0	0.197	20.39	195	20.34	196
50	0	0	0	0.197	20.5	194	20.46	195
60	0	0	0	0.197	20.62	193	20.58	193
70	0	0	0	0.197	20.73	192	20.7	192
80	0	0	0	0.197	20.85	191	20.82	191
90	0	0	0	0.197	20.96	190	20.92	190
100	0	0	0	0.197	21.07	189	21.03	189
110	0	0	0	0.197	21.18	188	21.13	189
120	0	0	0	0.197	21.29	187	21.23	188
130	0	0	0	0.197	21.39	186	21.33	187
167	0	0	0	0.197	21.76	183	21.71	184
212	0	0	0	0.197	22.2	180	22.15	180

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.195

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	32.81	1000	32.81	1000*
0	0	0	0	0.197	31.87	196	31.81	197
30	0	0	0	0.197	32.22	194	32.17	195
40	0	0	0	0.197	32.33	194	32.29	194
50	0	0	0	0.197	32.45	193	32.41	193
60	0	0	0	0.197	32.56	192	32.53	192
70	0	0	0	0.197	32.68	192	32.64	192
80	0	0	0	0.197	32.79	191	32.76	191
90	0	0	0	0.197	32.91	190	32.87	191
100	0	0	0	0.197	33.02	190	32.97	190
110	0	0	0	0.197	33.13	189	33.08	189
120	0	0	0	0.197	33.23	189	33.18	189
130	0	0	0	0.197	33.34	188	33.28	188
167	0	0	0	0.197	33.71	186	33.66	186
212	0	0	0	0.197	34.16	184	34.11	184

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10
100.00	0-7	0-8	0-9	0-11	1-0	1-2	1-3	1-4	1-5	1-6
125.00	0-11	1-1	1-3	1-5	1-7	1-9	1-11	2-1	2-3	2-4
150.00	1-3	1-6	1-9	2-0	2-4	2-7	2-10	3-0	3-2	3-5
175.00	1-9	2-1	2-5	2-9	3-2	3-6	3-10	4-1	4-4	4-7
200.00	2-3	2-8	3-2	3-7	4-1	4-6	5-0	5-4	5-8	6-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-10
100.00	0-7	0-8	0-10	0-11	1-1	1-2	1-3	1-4	1-6	1-7
125.00	0-11	1-1	1-3	1-6	1-8	1-10	2-0	2-2	2-4	2-5
150.00	1-4	1-7	1-10	2-1	2-5	2-8	2-10	3-1	3-4	3-6
175.00	1-10	2-2	2-6	2-11	3-3	3-7	3-11	4-2	4-6	4-9
200.00	2-4	2-10	3-3	3-9	4-3	4-8	5-1	5-6	5-10	6-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-2	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-4
125.00	1-9	1-9	1-10	1-10	1-11	1-11	2-0	2-0	2-1	2-1
150.00	2-6	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1
175.00	3-4	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
200.00	4-5	4-6	4-8	4-9	4-11	5-0	5-1	5-3	5-4	5-5
225.00	5-7	5-9	5-11	6-0	6-2	6-4	6-6	6-7	6-9	6-10
250.00	6-10	7-1	7-3	7-5	7-8	7-10	8-0	8-2	8-4	8-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-2	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-4
125.00	1-9	1-9	1-10	1-11	1-11	2-0	2-0	2-1	2-1	2-2
150.00	2-6	2-7	2-8	2-8	2-9	2-10	2-11	3-0	3-0	3-1
175.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
200.00	4-5	4-7	4-8	4-10	4-11	5-0	5-2	5-3	5-4	5-6
225.00	5-7	5-9	5-11	6-1	6-3	6-5	6-6	6-8	6-10	6-11
250.00	6-11	7-2	7-4	7-6	7-8	7-11	8-1	8-3	8-5	8-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.198

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-9	2-9	2-10	2-10	2-10	2-11	2-11	2-11	3-0
175.00	3-9	3-9	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-1
200.00	4-10	4-11	4-11	5-0	5-1	5-1	5-2	5-3	5-3	5-4
225.00	6-2	6-2	6-3	6-4	6-5	6-6	6-6	6-7	6-8	6-9
250.00	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-3
275.00	9-2	9-3	9-4	9-6	9-7	9-8	9-9	9-10	9-11	10-0
300.00	10-11	11-0	11-2	11-3	11-5	11-6	11-8	11-9	11-10	11-11
325.00	12-10	12-11	13-1	13-3	13-5	13-6	13-8	13-9	13-11	14-0
350.00	14-10	15-0	15-2	15-4	15-6	15-8	15-10	16-0	16-2	16-3
375.00	17-1	17-3	17-5	17-8	17-10	18-0	18-2	18-4	18-6	18-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-9	2-10	2-10	2-10	2-11	2-11	2-11	3-0	3-0
175.00	3-9	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-0	4-1
200.00	4-10	4-11	5-0	5-0	5-1	5-2	5-2	5-3	5-3	5-4
225.00	6-2	6-3	6-4	6-4	6-5	6-6	6-7	6-7	6-8	6-9
250.00	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-4
275.00	9-3	9-4	9-5	9-6	9-7	9-8	9-10	9-11	10-0	10-1
300.00	11-0	11-1	11-2	11-4	11-5	11-7	11-8	11-9	11-11	12-0
325.00	12-10	13-0	13-2	13-3	13-5	13-7	13-8	13-10	13-11	14-1
350.00	14-11	15-1	15-3	15-5	15-7	15-9	15-11	16-0	16-2	16-4
375.00	17-2	17-4	17-6	17-8	17-11	18-1	18-3	18-5	18-7	18-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.199

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-0	5-1	5-1	5-1	5-2	5-2	5-2	5-3	5-3	5-3
225.00	6-4	6-5	6-5	6-6	6-6	6-6	6-7	6-7	6-8	6-8
250.00	7-10	7-11	7-11	8-0	8-0	8-1	8-1	8-2	8-2	8-3
275.00	9-6	9-7	9-7	9-8	9-9	9-9	9-10	9-10	9-11	10-0
300.00	11-4	11-4	11-5	11-6	11-7	11-8	11-8	11-9	11-10	11-10
325.00	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-10	13-11
350.00	15-5	15-6	15-7	15-8	15-9	15-10	15-11	16-0	16-1	16-2
375.00	17-8	17-9	17-10	18-0	18-1	18-2	18-3	18-5	18-6	18-7
400.00	20-1	20-3	20-4	20-6	20-7	20-8	20-10	20-11	21-0	21-2
425.00	22-8	22-10	23-0	23-1	23-3	23-5	23-6	23-8	23-9	23-10
450.00	25-6	25-7	25-9	25-11	26-1	26-3	26-4	26-6	26-8	26-9
475.00	28-5	28-7	28-9	28-11	29-1	29-3	29-5	29-7	29-8	29-10
500.00	31-6	31-8	31-10	32-0	32-3	32-5	32-7	32-9	32-11	33-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-0	5-1	5-1	5-1	5-2	5-2	5-2	5-3	5-3	5-3
225.00	6-4	6-5	6-5	6-6	6-6	6-7	6-7	6-7	6-8	6-8
250.00	7-10	7-11	7-11	8-0	8-0	8-1	8-2	8-2	8-3	8-3
275.00	9-6	9-7	9-7	9-8	9-9	9-9	9-10	9-11	9-11	10-0
300.00	11-4	11-5	11-5	11-6	11-7	11-8	11-9	11-9	11-10	11-11
325.00	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-11	14-0
350.00	15-5	15-6	15-7	15-8	15-9	15-10	15-11	16-0	16-1	16-2
375.00	17-8	17-10	17-11	18-0	18-1	18-3	18-4	18-5	18-6	18-7
400.00	20-2	20-3	20-5	20-6	20-7	20-9	20-10	21-0	21-1	21-2
425.00	22-9	22-11	23-0	23-2	23-3	23-5	23-7	23-8	23-10	23-11
450.00	25-6	25-8	25-10	26-0	26-1	26-3	26-5	26-7	26-8	26-10
475.00	28-6	28-8	28-10	28-11	29-1	29-3	29-5	29-7	29-9	29-11
500.00	31-7	31-9	31-11	32-1	32-3	32-6	32-8	32-10	33-0	33-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.200

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-0	8-0	8-0	8-1	8-1	8-2	8-2	8-2	8-2	8-3
275.00	9-8	9-8	9-9	9-9	9-10	9-10	9-10	9-11	9-11	10-0
300.00	11-6	11-6	11-7	11-8	11-8	11-9	11-9	11-9	11-10	11-10
325.00	13-6	13-7	13-7	13-8	13-8	13-9	13-10	13-10	13-11	13-11
350.00	15-8	15-9	15-9	15-10	15-11	15-11	16-0	16-1	16-1	16-2
375.00	18-0	18-1	18-1	18-2	18-3	18-4	18-5	18-5	18-6	18-7
400.00	20-6	20-7	20-7	20-8	20-9	20-10	20-11	21-0	21-1	21-1
425.00	23-1	23-3	23-4	23-5	23-6	23-7	23-8	23-9	23-9	23-10
450.00	25-11	26-0	26-2	26-3	26-4	26-5	26-6	26-7	26-8	26-9
475.00	28-11	29-0	29-2	29-3	29-4	29-5	29-7	29-8	29-9	29-10
500.00	32-1	32-2	32-3	32-5	32-6	32-8	32-9	32-10	33-0	33-1
525.00	35-4	35-6	35-7	35-9	35-11	36-0	36-2	36-3	36-4	36-6
550.00	38-10	39-0	39-1	39-3	39-5	39-7	39-8	39-10	39-11	40-1
575.00	42-6	42-7	42-9	42-11	43-1	43-3	43-5	43-7	43-8	43-10
600.00	46-3	46-5	46-7	46-9	46-11	47-1	47-4	47-5	47-7	47-9
625.00	50-3	50-5	50-7	50-10	51-0	51-2	51-4	51-6	51-8	51-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-0	8-0	8-1	8-1	8-1	8-2	8-2	8-2	8-3	8-3
275.00	9-8	9-9	9-9	9-9	9-10	9-10	9-11	9-11	9-11	10-0
300.00	11-6	11-7	11-7	11-8	11-8	11-9	11-9	11-10	11-10	11-11
325.00	13-6	13-7	13-7	13-8	13-9	13-9	13-10	13-10	13-11	13-11
350.00	15-8	15-9	15-10	15-10	15-11	16-0	16-0	16-1	16-2	16-2
375.00	18-0	18-1	18-2	18-2	18-3	18-4	18-5	18-6	18-6	18-7
400.00	20-6	20-7	20-8	20-9	20-10	20-10	20-11	21-0	21-1	21-2
425.00	23-2	23-3	23-4	23-5	23-6	23-7	23-8	23-9	23-10	23-11
450.00	26-0	26-1	26-2	26-3	26-4	26-5	26-6	26-7	26-9	26-10
475.00	28-11	29-1	29-2	29-3	29-4	29-6	29-7	29-8	29-9	29-11
500.00	32-1	32-3	32-4	32-5	32-7	32-8	32-10	32-11	33-0	33-2
525.00	35-5	35-6	35-8	35-10	35-11	36-1	36-2	36-4	36-5	36-7
550.00	38-11	39-0	39-2	39-4	39-5	39-7	39-9	39-10	40-0	40-2
575.00	42-6	42-8	42-10	43-0	43-2	43-4	43-5	43-7	43-9	43-11
600.00	46-4	46-6	46-8	46-10	47-0	47-2	47-4	47-6	47-8	47-10
625.00	50-4	50-6	50-8	50-10	51-0	51-3	51-5	51-7	51-9	51-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.201

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	0.86	1500	0.86	1500*
0	0	0	0	0.197	0.17	1447	0.17	1448
30	0	0	0	0.197	0.23	1065	0.23	1090
40	0	0	0	0.197	0.26	941	0.25	971
50	0	0	0	0.197	0.3	820	0.29	854
60	0	0	0	0.197	0.35	704	0.33	740
70	0	0	0	0.197	0.41	595	0.39	631
80	0	0	0	0.197	0.5	497	0.46	531
90	0	0	0	0.197	0.6	414	0.56	444
100	0	0	0	0.197	0.71	348	0.66	371
110	0	0	0	0.197	0.83	298	0.77	320
120	0	0	0	0.197	0.94	261	0.87	283
130	0	0	0	0.197	1.04	236	0.97	254
167	0	0	0	0.197	1.39	177	1.32	186
212	0	0	0	0.197	1.75	141	1.69	146

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	3.44	1500	3.44	1500*
0	0	0	0	0.197	1.45	681	1.38	713
30	0	0	0	0.197	1.99	495	1.9	518
40	0	0	0	0.197	2.18	452	2.09	471
50	0	0	0	0.197	2.37	416	2.28	432
60	0	0	0	0.197	2.55	386	2.47	399
70	0	0	0	0.197	2.73	361	2.65	372
80	0	0	0	0.197	2.91	339	2.83	348
90	0	0	0	0.197	3.08	320	3.01	328
100	0	0	0	0.197	3.24	304	3.17	311
110	0	0	0	0.197	3.4	290	3.32	297
120	0	0	0	0.197	3.55	278	3.46	285
130	0	0	0	0.197	3.69	267	3.59	274
167	0	0	0	0.197	4.16	237	4.07	243
212	0	0	0	0.197	4.68	211	4.59	215

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	7.76	1500	7.76	1500*
0	0	0	0	0.197	5.69	390	5.56	399
30	0	0	0	0.197	6.29	353	6.18	359
40	0	0	0	0.197	6.48	343	6.38	348
50	0	0	0	0.197	6.67	333	6.57	338
60	0	0	0	0.197	6.85	324	6.76	329
70	0	0	0	0.197	7.03	316	6.95	320
80	0	0	0	0.197	7.21	308	7.13	312
90	0	0	0	0.197	7.38	301	7.3	304
100	0	0	0	0.197	7.55	294	7.48	297
110	0	0	0	0.197	7.72	288	7.63	291
120	0	0	0	0.197	7.88	282	7.78	286
130	0	0	0	0.197	8.02	277	7.92	281
167	0	0	0	0.197	8.54	260	8.45	263
212	0	0	0	0.197	9.14	243	9.05	246

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	13.83	1500	13.83	1500*
0	0	0	0	0.197	11.81	335	11.69	338
30	0	0	0	0.197	12.38	320	12.27	322
40	0	0	0	0.197	12.56	315	12.46	318
50	0	0	0	0.197	12.74	311	12.64	313
60	0	0	0	0.197	12.92	306	12.83	308
70	0	0	0	0.197	13.1	302	13.01	304
80	0	0	0	0.197	13.27	298	13.19	300
90	0	0	0	0.197	13.44	294	13.37	296
100	0	0	0	0.197	13.61	291	13.54	292
110	0	0	0	0.197	13.78	287	13.69	289
120	0	0	0	0.197	13.95	284	13.84	286
130	0	0	0	0.197	14.1	281	13.99	283
167	0	0	0	0.197	14.64	271	14.54	272
212	0	0	0	0.197	15.28	259	15.18	261

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.203

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	21.67	1500	21.67	1500*
0	0	0	0	0.197	19.68	315	19.56	317
30	0	0	0	0.197	20.22	306	20.12	308
40	0	0	0	0.197	20.4	304	20.3	305
50	0	0	0	0.197	20.58	301	20.48	303
60	0	0	0	0.197	20.76	299	20.67	300
70	0	0	0	0.197	20.93	296	20.85	297
80	0	0	0	0.197	21.11	294	21.02	295
90	0	0	0	0.197	21.28	291	21.2	292
100	0	0	0	0.197	21.45	289	21.37	290
110	0	0	0	0.197	21.62	287	21.53	288
120	0	0	0	0.197	21.79	285	21.68	286
130	0	0	0	0.197	21.94	283	21.83	284
167	0	0	0	0.197	22.49	276	22.39	277
212	0	0	0	0.197	23.15	268	23.05	269

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.204

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5
100.00	0-2	0-3	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9
125.00	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-10	1-0	1-2
150.00	0-5	0-6	0-7	0-8	0-9	0-11	1-1	1-3	1-6	1-9
175.00	0-7	0-8	0-9	0-11	1-0	1-2	1-5	1-8	2-0	2-4
200.00	0-10	0-11	1-0	1-2	1-4	1-7	1-10	2-3	2-8	3-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6
100.00	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-10
125.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-11	1-1	1-3
150.00	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-7	1-10
175.00	0-8	0-8	0-10	0-11	1-1	1-3	1-6	1-10	2-2	2-6
200.00	0-10	0-11	1-1	1-2	1-5	1-8	2-0	2-5	2-10	3-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-10
125.00	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4
150.00	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-8	1-9	1-10
175.00	1-4	1-5	1-7	1-9	1-11	2-0	2-2	2-4	2-5	2-6
200.00	1-9	1-11	2-1	2-3	2-6	2-8	2-10	3-0	3-2	3-4
225.00	2-2	2-5	2-8	2-11	3-1	3-4	3-7	3-10	4-0	4-2
250.00	2-8	3-0	3-3	3-7	3-10	4-2	4-5	4-8	5-0	5-2

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10
125.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-4
150.00	1-0	1-1	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11
175.00	1-5	1-6	1-8	1-10	1-11	2-1	2-3	2-4	2-6	2-7
200.00	1-10	2-0	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-5
225.00	2-3	2-6	2-9	3-0	3-3	3-6	3-8	3-11	4-1	4-4
250.00	2-10	3-1	3-5	3-8	4-0	4-3	4-7	4-10	5-1	5-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.206

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-7	1-8	1-8	1-9	1-9	1-10	1-10	1-11
175.00	2-0	2-1	2-2	2-3	2-4	2-4	2-5	2-6	2-7	2-7
200.00	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5
225.00	3-4	3-6	3-7	3-8	3-10	3-11	4-0	4-1	4-2	4-3
250.00	4-2	4-3	4-5	4-7	4-8	4-10	4-11	5-1	5-2	5-4
275.00	5-0	5-2	5-4	5-6	5-8	5-10	6-0	6-2	6-3	6-5
300.00	6-0	6-2	6-5	6-7	6-9	6-11	7-2	7-4	7-6	7-8
325.00	7-0	7-3	7-6	7-9	7-11	8-2	8-4	8-7	8-9	8-11
350.00	8-2	8-5	8-8	8-11	9-2	9-5	9-8	9-11	10-2	10-5
375.00	9-4	9-8	10-0	10-3	10-7	10-10	11-2	11-5	11-8	11-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-7	1-8	1-9	1-9	1-10	1-10	1-11	1-11
175.00	2-1	2-2	2-2	2-3	2-4	2-5	2-5	2-6	2-7	2-7
200.00	2-8	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-4	3-5
225.00	3-5	3-6	3-8	3-9	3-10	3-11	4-1	4-2	4-3	4-4
250.00	4-3	4-4	4-6	4-8	4-9	4-11	5-0	5-1	5-3	5-4
275.00	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-2	6-4	6-6
300.00	6-1	6-3	6-6	6-8	6-10	7-0	7-2	7-5	7-7	7-9
325.00	7-2	7-5	7-7	7-10	8-1	8-3	8-6	8-8	8-10	9-1
350.00	8-4	8-7	8-10	9-1	9-4	9-7	9-10	10-1	10-3	10-6
375.00	9-6	9-10	10-2	10-5	10-9	11-0	11-3	11-6	11-10	12-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.207

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-0	3-1	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-5
225.00	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-3	4-3	4-4
250.00	4-9	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-3	5-4
275.00	5-8	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6
300.00	6-9	6-11	7-0	7-1	7-3	7-4	7-5	7-6	7-7	7-8
325.00	8-0	8-1	8-3	8-4	8-6	8-7	8-8	8-10	8-11	9-0
350.00	9-3	9-5	9-6	9-8	9-10	9-11	10-1	10-3	10-4	10-6
375.00	10-7	10-9	10-11	11-1	11-3	11-5	11-7	11-9	11-11	12-0
400.00	12-1	12-3	12-5	12-8	12-10	13-0	13-2	13-4	13-6	13-8
425.00	13-8	13-10	14-1	14-3	14-6	14-8	14-11	15-1	15-3	15-5
450.00	15-4	15-6	15-9	16-0	16-3	16-6	16-8	16-11	17-2	17-4
475.00	17-0	17-4	17-7	17-10	18-1	18-4	18-7	18-10	19-1	19-4
500.00	18-11	19-2	19-6	19-9	20-1	20-4	20-7	20-11	21-2	21-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-1	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5
225.00	3-10	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-4	4-4
250.00	4-9	4-10	4-11	5-0	5-1	5-1	5-2	5-3	5-4	5-5
275.00	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6
300.00	6-10	6-11	7-1	7-2	7-3	7-4	7-6	7-7	7-8	7-9
325.00	8-1	8-2	8-3	8-5	8-6	8-8	8-9	8-10	9-0	9-1
350.00	9-4	9-6	9-7	9-9	9-11	10-0	10-2	10-3	10-5	10-7
375.00	10-9	10-10	11-0	11-2	11-4	11-6	11-8	11-10	12-0	12-1
400.00	12-2	12-5	12-7	12-9	12-11	13-1	13-3	13-5	13-7	13-9
425.00	13-9	14-0	14-2	14-5	14-7	14-9	15-0	15-2	15-4	15-7
450.00	15-5	15-8	15-11	16-2	16-4	16-7	16-10	17-0	17-3	17-5
475.00	17-2	17-6	17-9	18-0	18-3	18-6	18-9	19-0	19-2	19-5
500.00	19-1	19-4	19-8	19-11	20-2	20-6	20-9	21-0	21-3	21-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4
275.00	6-0	6-1	6-2	6-2	6-3	6-4	6-4	6-5	6-5	6-6
300.00	7-2	7-3	7-4	7-4	7-5	7-6	7-7	7-7	7-8	7-9
325.00	8-5	8-6	8-7	8-8	8-9	8-10	8-10	8-11	9-0	9-1
350.00	9-9	9-10	9-11	10-0	10-1	10-2	10-3	10-5	10-6	10-6
375.00	11-2	11-4	11-5	11-6	11-7	11-9	11-10	11-11	12-0	12-1
400.00	12-9	12-10	13-0	13-1	13-3	13-4	13-5	13-7	13-8	13-9
425.00	14-5	14-6	14-8	14-9	14-11	15-1	15-2	15-4	15-5	15-7
450.00	16-2	16-3	16-5	16-7	16-9	16-11	17-0	17-2	17-4	17-5
475.00	18-0	18-2	18-4	18-6	18-8	18-10	19-0	19-2	19-3	19-5
500.00	19-11	20-1	20-4	20-6	20-8	20-10	21-0	21-2	21-4	21-6
525.00	22-0	22-2	22-5	22-7	22-9	23-0	23-2	23-5	23-7	23-9
550.00	24-2	24-4	24-7	24-10	25-0	25-3	25-5	25-8	25-10	26-1
575.00	26-5	26-8	26-10	27-1	27-4	27-7	27-10	28-1	28-3	28-6
600.00	28-9	29-0	29-3	29-6	29-9	30-1	30-4	30-7	30-10	31-0
625.00	31-2	31-6	31-9	32-1	32-4	32-7	32-11	33-2	33-5	33-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-5
275.00	6-1	6-1	6-2	6-3	6-3	6-4	6-4	6-5	6-6	6-6
300.00	7-2	7-3	7-4	7-5	7-6	7-6	7-7	7-8	7-9	7-9
325.00	8-5	8-6	8-7	8-8	8-9	8-10	8-11	9-0	9-1	9-1
350.00	9-10	9-11	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7
375.00	11-3	11-4	11-6	11-7	11-8	11-9	11-10	11-11	12-1	12-2
400.00	12-10	12-11	13-1	13-2	13-3	13-5	13-6	13-7	13-9	13-10
425.00	14-6	14-7	14-9	14-10	15-0	15-1	15-3	15-4	15-6	15-7
450.00	16-3	16-4	16-6	16-8	16-10	16-11	17-1	17-3	17-4	17-6
475.00	18-1	18-3	18-5	18-7	18-9	18-11	19-1	19-2	19-4	19-6
500.00	20-1	20-3	20-5	20-7	20-9	20-11	21-1	21-3	21-5	21-7
525.00	22-1	22-4	22-6	22-8	22-11	23-1	23-3	23-6	23-8	23-10
550.00	24-3	24-6	24-8	24-11	25-2	25-4	25-7	25-9	26-0	26-2
575.00	26-6	26-9	27-0	27-3	27-6	27-8	27-11	28-2	28-5	28-7
600.00	28-11	29-2	29-5	29-8	29-11	30-2	30-5	30-8	30-11	31-2
625.00	31-4	31-8	31-11	32-2	32-6	32-9	33-0	33-3	33-7	33-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.209

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	0.65	2000	0.65	2000*
0	0	0	0	0.197	0.12	2073	0.12	2073
30	0	0	0	0.197	0.15	1694	0.14	1716
40	0	0	0	0.197	0.16	1565	0.15	1595
50	0	0	0	0.197	0.17	1436	0.17	1474
60	0	0	0	0.197	0.19	1308	0.18	1352
70	0	0	0	0.197	0.21	1181	0.2	1230
80	0	0	0	0.197	0.23	1055	0.22	1108
90	0	0	0	0.197	0.26	931	0.25	987
100	0	0	0	0.197	0.3	811	0.28	868
110	0	0	0	0.197	0.35	695	0.33	751
120	0	0	0	0.197	0.42	586	0.38	640
130	0	0	0	0.197	0.5	490	0.46	538
167	0	0	0	0.197	0.86	285	0.77	319
212	0	0	0	0.197	1.31	188	1.22	203

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	2.58	2000	2.58	2000*
0	0	0	0	0.197	0.63	1568	0.62	1593
30	0	0	0	0.197	0.82	1206	0.79	1251
40	0	0	0	0.197	0.9	1091	0.86	1140
50	0	0	0	0.197	1	982	0.95	1033
60	0	0	0	0.197	1.12	879	1.06	930
70	0	0	0	0.197	1.26	784	1.18	833
80	0	0	0	0.197	1.41	698	1.32	744
90	0	0	0	0.197	1.58	623	1.48	664
100	0	0	0	0.197	1.76	560	1.66	595
110	0	0	0	0.197	1.95	506	1.84	535
120	0	0	0	0.197	2.14	461	2.03	485
130	0	0	0	0.197	2.33	424	2.2	448
167	0	0	0	0.197	2.92	338	2.79	354
212	0	0	0	0.197	3.57	276	3.45	286

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	5.81	2000	5.81	2000*
0	0	0	0	0.197	2.47	899	2.35	943
30	0	0	0	0.197	3.17	700	3.01	736
40	0	0	0	0.197	3.41	650	3.25	681
50	0	0	0	0.197	3.66	605	3.5	633
60	0	0	0	0.197	3.91	567	3.75	591
70	0	0	0	0.197	4.16	534	4	555
80	0	0	0	0.197	4.4	504	4.24	523
90	0	0	0	0.197	4.63	479	4.49	494
100	0	0	0	0.197	4.87	456	4.72	470
110	0	0	0	0.197	5.09	436	4.96	448
120	0	0	0	0.197	5.31	418	5.17	429
130	0	0	0	0.197	5.52	402	5.37	413
167	0	0	0	0.197	6.2	358	6.05	367
212	0	0	0	0.197	6.96	319	6.82	326

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	10.35	2000	10.35	2000*
0	0	0	0	0.197	6.8	580	6.59	598
30	0	0	0	0.197	7.63	517	7.43	531
40	0	0	0	0.197	7.89	500	7.7	512
50	0	0	0	0.197	8.15	484	7.97	495
60	0	0	0	0.197	8.4	470	8.23	480
70	0	0	0	0.197	8.65	456	8.48	465
80	0	0	0	0.197	8.9	444	8.73	452
90	0	0	0	0.197	9.14	432	8.98	440
100	0	0	0	0.197	9.37	421	9.22	428
110	0	0	0	0.197	9.6	411	9.46	417
120	0	0	0	0.197	9.83	402	9.68	408
130	0	0	0	0.197	10.04	393	9.88	400
167	0	0	0	0.197	10.76	367	10.6	373
212	0	0	0	0.197	11.58	341	11.43	346

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	16.2	2000	16.2	2000*
0	0	0	0	0.197	12.72	485	12.5	494
30	0	0	0	0.197	13.5	457	13.31	464
40	0	0	0	0.197	13.76	449	13.57	455
50	0	0	0	0.197	14.01	441	13.82	447
60	0	0	0	0.197	14.25	433	14.08	439
70	0	0	0	0.197	14.5	426	14.33	431
80	0	0	0	0.197	14.74	419	14.57	424
90	0	0	0	0.197	14.97	413	14.82	417
100	0	0	0	0.197	15.21	406	15.06	410
110	0	0	0	0.197	15.44	400	15.3	404
120	0	0	0	0.197	15.67	395	15.51	398
130	0	0	0	0.197	15.88	389	15.72	393
167	0	0	0	0.197	16.62	372	16.46	376
212	0	0	0	0.197	17.48	354	17.32	357

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4
125.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
150.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9
175.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	1-0
200.00	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1
200.00	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-3	1-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.213

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6
125.00	0-3	0-4	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-9
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-5
200.00	0-9	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-8	1-10
225.00	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-11	2-1	2-4
250.00	1-2	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-7	2-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9
150.00	0-5	0-6	0-6	0-7	0-8	0-8	0-10	0-11	1-0	1-1
175.00	0-7	0-8	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-6
200.00	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-7	1-9	1-11
225.00	0-11	1-0	1-2	1-3	1-5	1-7	1-9	2-0	2-3	2-6
250.00	1-2	1-3	1-5	1-7	1-9	2-0	2-2	2-6	2-9	3-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.214

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3
175.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
200.00	1-3	1-4	1-5	1-7	1-8	1-9	1-11	2-0	2-1	2-2
225.00	1-7	1-8	1-10	2-0	2-1	2-3	2-5	2-6	2-8	2-9
250.00	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5
275.00	2-4	2-6	2-9	2-11	3-2	3-4	3-7	3-9	4-0	4-2
300.00	2-9	3-0	3-3	3-6	3-9	4-0	4-3	4-6	4-9	4-11
325.00	3-3	3-6	3-10	4-1	4-5	4-8	5-0	5-3	5-7	5-10
350.00	3-9	4-1	4-5	4-9	5-1	5-5	5-9	6-1	6-5	6-9
375.00	4-4	4-9	5-1	5-6	5-10	6-3	6-8	7-0	7-5	7-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-3
175.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
200.00	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-1	2-2	2-3
225.00	1-8	1-9	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-10
250.00	2-0	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-5	3-6
275.00	2-5	2-8	2-10	3-1	3-3	3-6	3-8	3-11	4-1	4-3
300.00	2-11	3-2	3-5	3-8	3-11	4-2	4-5	4-8	4-10	5-1
325.00	3-5	3-9	4-0	4-4	4-7	4-11	5-2	5-5	5-9	6-0
350.00	4-0	4-4	4-8	5-0	5-4	5-8	6-0	6-4	6-7	6-11
375.00	4-7	4-11	5-4	5-9	6-1	6-6	6-10	7-3	7-7	7-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-9	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-4	2-4
225.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0
250.00	2-10	2-11	3-0	3-1	3-3	3-4	3-5	3-6	3-7	3-8
275.00	3-5	3-6	3-8	3-9	3-11	4-0	4-2	4-3	4-4	4-6
300.00	4-0	4-2	4-4	4-6	4-8	4-9	4-11	5-1	5-2	5-4
325.00	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3
350.00	5-6	5-8	5-11	6-1	6-4	6-6	6-8	6-11	7-1	7-3
375.00	6-3	6-6	6-9	7-0	7-3	7-5	7-8	7-11	8-1	8-4
400.00	7-2	7-5	7-8	8-0	8-3	8-6	8-9	9-0	9-3	9-6
425.00	8-1	8-5	8-8	9-0	9-3	9-7	9-10	10-2	10-5	10-8
450.00	9-1	9-5	9-9	10-1	10-5	10-9	11-1	11-4	11-8	12-0
475.00	10-1	10-6	10-10	11-3	11-7	12-0	12-4	12-8	13-0	13-4
500.00	11-2	11-7	12-0	12-5	12-10	13-3	13-8	14-0	14-5	14-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-10	1-11	2-0	2-0	2-1	2-2	2-3	2-3	2-4	2-5
225.00	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-0
250.00	2-10	3-0	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-9
275.00	3-6	3-7	3-9	3-10	4-0	4-1	4-2	4-4	4-5	4-6
300.00	4-2	4-3	4-5	4-7	4-9	4-10	5-0	5-2	5-3	5-5
325.00	4-10	5-0	5-2	5-5	5-7	5-9	5-10	6-0	6-2	6-4
350.00	5-8	5-10	6-0	6-3	6-5	6-7	6-10	7-0	7-2	7-4
375.00	6-6	6-8	6-11	7-2	7-5	7-7	7-10	8-0	8-3	8-5
400.00	7-4	7-8	7-11	8-2	8-5	8-8	8-11	9-2	9-4	9-7
425.00	8-4	8-7	8-11	9-2	9-6	9-9	10-1	10-4	10-7	10-10
450.00	9-4	9-8	10-0	10-4	10-8	10-11	11-3	11-7	11-10	12-2
475.00	10-5	10-9	11-2	11-6	11-10	12-2	12-7	12-11	13-3	13-7
500.00	11-6	11-11	12-4	12-9	13-2	13-6	13-11	14-3	14-8	15-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.216

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-3	3-4	3-5	3-5	3-6	3-7	3-8	3-8	3-9	3-10
275.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-7
300.00	4-8	4-9	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6
325.00	5-6	5-7	5-9	5-10	5-11	6-1	6-2	6-3	6-4	6-5
350.00	6-5	6-6	6-8	6-9	6-11	7-0	7-2	7-3	7-4	7-6
375.00	7-4	7-6	7-8	7-9	7-11	8-1	8-2	8-4	8-6	8-7
400.00	8-4	8-6	8-8	8-10	9-0	9-2	9-4	9-6	9-8	9-9
425.00	9-5	9-7	9-10	10-0	10-2	10-4	10-6	10-8	10-11	11-1
450.00	10-7	10-9	11-0	11-2	11-5	11-7	11-10	12-0	12-2	12-5
475.00	11-9	12-0	12-3	12-6	12-8	12-11	13-2	13-4	13-7	13-10
500.00	13-1	13-4	13-7	13-10	14-1	14-4	14-7	14-10	15-1	15-4
525.00	14-5	14-8	14-11	15-3	15-6	15-10	16-1	16-4	16-7	16-10
550.00	15-9	16-1	16-5	16-9	17-0	17-4	17-8	17-11	18-3	18-6
575.00	17-3	17-7	17-11	18-3	18-7	18-11	19-3	19-7	19-11	20-3
600.00	18-9	19-2	19-7	19-11	20-3	20-8	21-0	21-4	21-8	22-0
625.00	20-5	20-10	21-3	21-7	22-0	22-5	22-9	23-2	23-7	23-11

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-4	3-4	3-5	3-6	3-7	3-7	3-8	3-9	3-10	3-10
275.00	4-0	4-1	4-2	4-3	4-4	4-5	4-5	4-6	4-7	4-8
300.00	4-9	4-10	4-11	5-0	5-2	5-3	5-4	5-5	5-6	5-7
325.00	5-7	5-8	5-10	5-11	6-0	6-1	6-3	6-4	6-5	6-6
350.00	6-6	6-7	6-9	6-10	7-0	7-1	7-3	7-4	7-5	7-7
375.00	7-5	7-7	7-9	7-11	8-0	8-2	8-3	8-5	8-7	8-8
400.00	8-6	8-8	8-10	9-0	9-1	9-3	9-5	9-7	9-9	9-11
425.00	9-7	9-9	9-11	10-1	10-4	10-6	10-8	10-10	11-0	11-2
450.00	10-9	10-11	11-2	11-4	11-7	11-9	11-11	12-2	12-4	12-6
475.00	11-11	12-2	12-5	12-8	12-10	13-1	13-4	13-6	13-9	13-11
500.00	13-3	13-6	13-9	14-0	14-3	14-6	14-9	15-0	15-2	15-5
525.00	14-7	14-11	15-2	15-5	15-9	16-0	16-3	16-6	16-9	17-0
550.00	16-0	16-4	16-8	16-11	17-3	17-7	17-10	18-1	18-5	18-8
575.00	17-6	17-10	18-2	18-6	18-10	19-2	19-6	19-10	20-1	20-5
600.00	19-1	19-5	19-10	20-2	20-6	20-11	21-3	21-7	21-11	22-3
625.00	20-8	21-1	21-6	21-11	22-3	22-8	23-0	23-5	23-9	24-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.217

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	0.52	2471	0.52	2500*
0	0	0	0	0.197	0.09	2616	0.09	2627
30	0	0	0	0.197	0.11	2225	0.11	2279
40	0	0	0	0.197	0.12	2095	0.11	2161
50	0	0	0	0.197	0.13	1965	0.12	2041
60	0	0	0	0.197	0.13	1835	0.13	1921
70	0	0	0	0.197	0.14	1706	0.14	1799
80	0	0	0	0.197	0.16	1577	0.15	1677
90	0	0	0	0.197	0.17	1448	0.16	1554
100	0	0	0	0.197	0.19	1320	0.17	1430
110	0	0	0	0.197	0.21	1192	0.19	1306
120	0	0	0	0.197	0.23	1066	0.21	1182
130	0	0	0	0.197	0.26	942	0.23	1059
167	0	0	0	0.197	0.44	557	0.38	650
212	0	0	0	0.197	0.85	290	0.71	346

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	2.07	2500	2.07	2500*
0	0	0	0	0.197	0.43	2310	0.42	2320
30	0	0	0	0.197	0.51	1926	0.5	1972
40	0	0	0	0.197	0.55	1800	0.53	1854
50	0	0	0	0.197	0.59	1674	0.57	1736
60	0	0	0	0.197	0.64	1550	0.61	1619
70	0	0	0	0.197	0.69	1427	0.66	1501
80	0	0	0	0.197	0.75	1307	0.71	1384
90	0	0	0	0.197	0.83	1189	0.78	1269
100	0	0	0	0.197	0.92	1075	0.85	1155
110	0	0	0	0.197	1.02	966	0.94	1045
120	0	0	0	0.197	1.14	864	1.05	940
130	0	0	0	0.197	1.28	771	1.17	841
167	0	0	0	0.197	1.86	531	1.71	575
212	0	0	0	0.197	2.6	379	2.43	405

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.032	4.65	2500	4.65	2500*
0	0	0	0	0.197	1.25	1775	1.22	1824
30	0	0	0	0.197	1.55	1426	1.48	1494
40	0	0	0	0.197	1.68	1315	1.6	1387
50	0	0	0	0.197	1.83	1210	1.73	1283
60	0	0	0	0.197	2	1110	1.87	1183
70	0	0	0	0.197	2.18	1017	2.04	1088
80	0	0	0	0.197	2.38	931	2.22	998
90	0	0	0	0.197	2.6	854	2.42	915
100	0	0	0	0.197	2.83	784	2.64	840
110	0	0	0	0.197	3.07	723	2.87	772
120	0	0	0	0.197	3.31	669	3.11	712
130	0	0	0	0.197	3.56	623	3.36	660
167	0	0	0	0.197	4.38	506	4.19	530
212	0	0	0	0.197	5.3	419	5.1	435

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.032	8.27	2500	8.27	2500*
0	0	0	0	0.197	3.34	1179	3.17	1242
30	0	0	0	0.197	4.14	952	3.91	1008
40	0	0	0	0.197	4.43	890	4.18	942
50	0	0	0	0.197	4.73	834	4.47	882
60	0	0	0	0.197	5.03	784	4.76	828
70	0	0	0	0.197	5.33	740	5.06	779
80	0	0	0	0.197	5.63	700	5.36	735
90	0	0	0	0.197	5.93	665	5.67	696
100	0	0	0	0.197	6.22	634	5.97	661
110	0	0	0	0.197	6.51	605	6.26	630
120	0	0	0	0.197	6.8	580	6.56	601
130	0	0	0	0.197	7.08	557	6.85	576
167	0	0	0	0.197	7.98	495	7.76	509
212	0	0	0	0.197	8.99	439	8.78	450

* Design Condition

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SHEET 219 OF 241

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.219

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	12.94	2500	12.94	2500*
0	0	0	0	0.197	7.56	815	7.24	851
30	0	0	0	0.197	8.6	717	8.27	745
40	0	0	0	0.197	8.93	690	8.61	716
50	0	0	0	0.197	9.26	666	8.95	689
60	0	0	0	0.197	9.59	643	9.28	664
70	0	0	0	0.197	9.91	622	9.61	642
80	0	0	0	0.197	10.22	603	9.93	621
90	0	0	0	0.197	10.53	586	10.25	602
100	0	0	0	0.197	10.83	569	10.56	584
110	0	0	0	0.197	11.13	554	10.87	568
120	0	0	0	0.197	11.42	540	11.17	552
130	0	0	0	0.197	11.7	527	11.47	538
167	0	0	0	0.197	12.63	489	12.4	498
212	0	0	0	0.197	13.69	451	13.47	458

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-4
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8
200.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.221

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4
150.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9
200.00	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11
225.00	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2
250.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-3	1-4	1-6

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
150.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9
200.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0
225.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-1	1-2	1-3
250.00	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.222

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9
175.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0
200.00	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3
225.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7
250.00	1-0	1-0	1-1	1-2	1-4	1-5	1-7	1-8	1-10	2-0
275.00	1-2	1-3	1-4	1-5	1-7	1-9	1-10	2-0	2-3	2-5
300.00	1-5	1-6	1-7	1-9	1-10	2-0	2-3	2-5	2-8	2-10
325.00	1-7	1-9	1-11	2-0	2-2	2-5	2-7	2-10	3-1	3-4
350.00	1-11	2-0	2-2	2-4	2-7	2-9	3-0	3-4	3-7	3-11
375.00	2-2	2-4	2-6	2-8	2-11	3-2	3-6	3-9	4-1	4-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-5	0-5	0-5	0-6	0-7	0-7	0-8	0-8	0-9
175.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1
200.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
225.00	0-10	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-7	1-9
250.00	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-2
275.00	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-2	2-5	2-7
300.00	1-5	1-7	1-8	1-10	2-0	2-2	2-5	2-7	2-10	3-1
325.00	1-8	1-10	2-0	2-2	2-4	2-7	2-10	3-1	3-4	3-7
350.00	2-0	2-1	2-4	2-6	2-9	3-0	3-3	3-6	3-10	4-2
375.00	2-3	2-5	2-8	2-10	3-1	3-5	3-9	4-1	4-5	4-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.223

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7
225.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-0
250.00	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-3	2-4	2-5
275.00	1-9	1-10	2-0	2-1	2-3	2-5	2-6	2-8	2-10	3-0
300.00	2-1	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6
325.00	2-5	2-7	2-9	2-11	3-2	3-4	3-6	3-9	3-11	4-2
350.00	2-10	3-0	3-2	3-5	3-8	3-11	4-1	4-4	4-7	4-10
375.00	3-2	3-5	3-8	3-11	4-2	4-5	4-9	5-0	5-3	5-6
400.00	3-8	3-11	4-2	4-6	4-9	5-1	5-4	5-8	6-0	6-3
425.00	4-1	4-5	4-9	5-1	5-5	5-9	6-1	6-5	6-9	7-1
450.00	4-7	4-11	5-4	5-8	6-0	6-5	6-9	7-2	7-7	7-11
475.00	5-2	5-6	5-11	6-4	6-9	7-2	7-7	8-0	8-5	8-10
500.00	5-8	6-1	6-6	7-0	7-5	7-11	8-5	8-10	9-4	9-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
225.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-1
250.00	1-6	1-7	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-7
275.00	1-10	1-11	2-1	2-3	2-5	2-6	2-8	2-10	2-11	3-1
300.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
325.00	2-7	2-9	2-11	3-1	3-4	3-6	3-9	3-11	4-1	4-4
350.00	2-11	3-2	3-5	3-7	3-10	4-1	4-4	4-6	4-9	5-0
375.00	3-5	3-8	3-11	4-2	4-5	4-8	4-11	5-3	5-6	5-9
400.00	3-10	4-2	4-5	4-9	5-0	5-4	5-8	5-11	6-3	6-6
425.00	4-4	4-8	5-0	5-4	5-8	6-0	6-4	6-8	7-0	7-4
450.00	4-11	5-3	5-7	6-0	6-4	6-9	7-2	7-6	7-11	8-3
475.00	5-5	5-10	6-3	6-8	7-1	7-6	7-11	8-4	8-9	9-2
500.00	6-0	6-6	6-11	7-5	7-10	8-4	8-10	9-3	9-9	10-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.224

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
275.00	2-5	2-6	2-7	2-8	2-10	2-11	3-0	3-1	3-2	3-3
300.00	2-10	3-0	3-1	3-3	3-4	3-5	3-7	3-8	3-10	3-11
325.00	3-4	3-6	3-8	3-9	3-11	4-1	4-2	4-4	4-6	4-7
350.00	3-11	4-1	4-3	4-5	4-7	4-8	4-10	5-0	5-2	5-4
375.00	4-6	4-8	4-10	5-0	5-3	5-5	5-7	5-9	5-11	6-1
400.00	5-1	5-4	5-6	5-9	5-11	6-2	6-4	6-7	6-9	6-11
425.00	5-9	6-0	6-3	6-6	6-8	6-11	7-2	7-5	7-8	7-10
450.00	6-5	6-8	7-0	7-3	7-6	7-9	8-0	8-4	8-7	8-10
475.00	7-2	7-6	7-9	8-1	8-4	8-8	9-0	9-3	9-6	9-10
500.00	7-11	8-3	8-7	8-11	9-3	9-7	9-11	10-3	10-7	10-10
525.00	8-9	9-1	9-6	9-10	10-3	10-7	10-11	11-4	11-8	12-0
550.00	9-7	10-0	10-5	10-10	11-3	11-8	12-0	12-5	12-9	13-2
575.00	10-6	10-11	11-5	11-10	12-3	12-8	13-2	13-7	14-0	14-4
600.00	11-5	11-11	12-5	12-11	13-4	13-10	14-4	14-9	15-2	15-8
625.00	12-5	12-11	13-6	14-0	14-6	15-0	15-6	16-0	16-6	17-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9
275.00	2-6	2-7	2-8	2-10	2-11	3-0	3-1	3-2	3-3	3-4
300.00	3-0	3-1	3-3	3-4	3-5	3-7	3-8	3-9	3-11	4-0
325.00	3-6	3-8	3-9	3-11	4-1	4-2	4-4	4-5	4-7	4-8
350.00	4-1	4-3	4-5	4-6	4-8	4-10	5-0	5-2	5-4	5-5
375.00	4-8	4-10	5-0	5-3	5-5	5-7	5-9	5-11	6-1	6-3
400.00	5-3	5-6	5-9	5-11	6-2	6-4	6-6	6-9	6-11	7-1
425.00	6-0	6-3	6-5	6-8	6-11	7-2	7-5	7-7	7-10	8-0
450.00	6-8	7-0	7-3	7-6	7-9	8-0	8-3	8-6	8-9	9-0
475.00	7-5	7-9	8-1	8-4	8-8	8-11	9-3	9-6	9-9	10-1
500.00	8-3	8-7	8-11	9-3	9-7	9-11	10-3	10-6	10-10	11-2
525.00	9-1	9-6	9-10	10-3	10-7	10-11	11-3	11-7	11-11	12-3
550.00	10-0	10-5	10-10	11-2	11-7	12-0	12-4	12-9	13-1	13-6
575.00	10-11	11-4	11-10	12-3	12-8	13-1	13-6	13-11	14-4	14-9
600.00	11-11	12-5	12-10	13-4	13-10	14-3	14-9	15-2	15-7	16-0
625.00	12-11	13-5	13-11	14-6	15-0	15-6	16-0	16-5	16-11	17-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.225

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	0.44	2943	0.43	3000*
0	0	0	0	0.197	0.08	3122	0.08	3152
30	0	0	0	0.197	0.09	2731	0.09	2816
40	0	0	0	0.197	0.09	2600	0.09	2702
50	0	0	0	0.197	0.1	2470	0.1	2586
60	0	0	0	0.197	0.11	2340	0.1	2468
70	0	0	0	0.197	0.11	2210	0.1	2350
80	0	0	0	0.197	0.12	2080	0.11	2230
90	0	0	0	0.197	0.13	1950	0.12	2109
100	0	0	0	0.197	0.14	1820	0.12	1987
110	0	0	0	0.197	0.15	1691	0.13	1864
120	0	0	0	0.197	0.16	1561	0.14	1740
130	0	0	0	0.197	0.17	1433	0.15	1615
167	0	0	0	0.197	0.25	981	0.21	1151
212	0	0	0	0.197	0.44	559	0.36	687

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	1.73	2976	1.72	3000*
0	0	0	0	0.197	0.34	2917	0.33	2944
30	0	0	0	0.197	0.39	2529	0.38	2605
40	0	0	0	0.197	0.41	2400	0.4	2490
50	0	0	0	0.197	0.43	2272	0.41	2374
60	0	0	0	0.197	0.46	2144	0.44	2256
70	0	0	0	0.197	0.49	2016	0.46	2138
80	0	0	0	0.197	0.52	1889	0.49	2019
90	0	0	0	0.197	0.56	1762	0.52	1900
100	0	0	0	0.197	0.6	1637	0.55	1780
110	0	0	0	0.197	0.65	1513	0.59	1659
120	0	0	0	0.197	0.71	1391	0.64	1539
130	0	0	0	0.197	0.77	1271	0.69	1420
167	0	0	0	0.197	1.12	879	0.99	997
212	0	0	0	0.197	1.72	572	1.52	649

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.226

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	3.87	3000	3.87	3000*
0	0	0	0	0.197	0.87	2561	0.85	2598
30	0	0	0	0.197	1.02	2182	0.98	2258
40	0	0	0	0.197	1.08	2058	1.03	2144
50	0	0	0	0.197	1.15	1935	1.09	2030
60	0	0	0	0.197	1.22	1813	1.16	1915
70	0	0	0	0.197	1.31	1693	1.23	1801
80	0	0	0	0.197	1.41	1575	1.31	1687
90	0	0	0	0.197	1.52	1460	1.41	1574
100	0	0	0	0.197	1.64	1349	1.51	1464
110	0	0	0	0.197	1.78	1242	1.64	1355
120	0	0	0	0.197	1.94	1141	1.77	1250
130	0	0	0	0.197	2.12	1045	1.93	1150
167	0	0	0	0.197	2.86	776	2.66	832
212	0	0	0	0.197	3.82	580	3.58	620

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	6.89	3000	6.89	3000*
0	0	0	0	0.197	1.92	2051	1.85	2127
30	0	0	0	0.197	2.31	1705	2.19	1803
40	0	0	0	0.197	2.47	1595	2.32	1697
50	0	0	0	0.197	2.65	1489	2.47	1593
60	0	0	0	0.197	2.84	1388	2.64	1492
70	0	0	0	0.197	3.05	1291	2.83	1394
80	0	0	0	0.197	3.28	1201	3.03	1300
90	0	0	0	0.197	3.53	1117	3.25	1212
100	0	0	0	0.197	3.79	1039	3.49	1128
110	0	0	0	0.197	4.07	969	3.75	1050
120	0	0	0	0.197	4.36	905	4.03	979
130	0	0	0	0.197	4.65	848	4.31	914
167	0	0	0	0.197	5.66	696	5.39	731
212	0	0	0	0.197	6.83	578	6.54	603

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.227

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	10.77	3000	10.77	3000*
0	0	0	0	0.197	4.09	1505	3.86	1596
30	0	0	0	0.197	4.94	1248	4.61	1336
40	0	0	0	0.197	5.25	1173	4.9	1258
50	0	0	0	0.197	5.57	1105	5.2	1185
60	0	0	0	0.197	5.91	1042	5.51	1117
70	0	0	0	0.197	6.25	985	5.84	1054
80	0	0	0	0.197	6.6	934	6.18	997
90	0	0	0	0.197	6.95	887	6.53	944
100	0	0	0	0.197	7.3	844	6.87	896
110	0	0	0	0.197	7.65	806	7.23	853
120	0	0	0	0.197	7.99	771	7.58	813
130	0	0	0	0.197	8.34	739	7.93	777
167	0	0	0	0.197	9.44	653	9.13	675
212	0	0	0	0.197	10.71	576	10.4	593

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.229

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
150.00	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7
225.00	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
150.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4
175.00	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6
200.00	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8
225.00	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-10
250.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.230

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
225.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11
250.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-2
275.00	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4
300.00	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-8
325.00	1-1	1-2	1-3	1-3	1-4	1-5	1-7	1-8	1-9	1-11
350.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-1	2-3
375.00	1-6	1-6	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7
200.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10
225.00	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0
250.00	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3
275.00	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-5	1-6
300.00	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-9
325.00	1-2	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-1
350.00	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-1	2-3	2-5
375.00	1-6	1-7	1-8	1-9	1-11	2-1	2-2	2-4	2-7	2-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.231

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11
225.00	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-0	1-1	1-2
250.00	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-6
275.00	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-9
300.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-10	2-0	2-1
325.00	1-4	1-5	1-6	1-8	1-9	1-10	2-0	2-2	2-4	2-6
350.00	1-7	1-8	1-9	1-11	2-0	2-2	2-4	2-6	2-8	2-10
375.00	1-10	1-11	2-0	2-2	2-4	2-6	2-8	2-10	3-1	3-4
400.00	2-1	2-2	2-4	2-6	2-8	2-10	3-0	3-3	3-6	3-9
425.00	2-4	2-6	2-7	2-10	3-0	3-2	3-5	3-8	3-11	4-3
450.00	2-7	2-9	2-11	3-2	3-4	3-7	3-10	4-1	4-5	4-9
475.00	2-11	3-1	3-3	3-6	3-9	4-0	4-3	4-7	4-11	5-3
500.00	3-3	3-5	3-8	3-10	4-2	4-5	4-9	5-1	5-6	5-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-7	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0
225.00	0-8	0-9	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3
250.00	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-5	1-6	1-7
275.00	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-10	1-11
300.00	1-3	1-4	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-3
325.00	1-5	1-6	1-8	1-9	1-10	2-0	2-2	2-4	2-6	2-8
350.00	1-8	1-9	1-11	2-0	2-2	2-4	2-6	2-8	2-11	3-1
375.00	1-11	2-0	2-2	2-4	2-6	2-8	2-11	3-1	3-4	3-7
400.00	2-2	2-4	2-6	2-8	2-10	3-1	3-3	3-6	3-10	4-1
425.00	2-5	2-7	2-9	3-0	3-2	3-5	3-8	4-0	4-3	4-7
450.00	2-9	2-11	3-2	3-4	3-7	3-10	4-2	4-6	4-10	5-2
475.00	3-1	3-3	3-6	3-9	4-0	4-4	4-8	5-0	5-4	5-9
500.00	3-5	3-7	3-10	4-2	4-5	4-9	5-2	5-6	5-11	6-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.232

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
275.00	1-4	1-5	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-2
300.00	1-7	1-8	1-9	1-10	2-0	2-1	2-3	2-4	2-6	2-7
325.00	1-10	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-11	3-1
350.00	2-2	2-3	2-5	2-7	2-8	2-10	3-0	3-2	3-4	3-6
375.00	2-5	2-7	2-9	2-11	3-1	3-3	3-6	3-8	3-10	4-1
400.00	2-9	2-11	3-2	3-4	3-6	3-9	3-11	4-2	4-5	4-7
425.00	3-2	3-4	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3
450.00	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-7	5-10
475.00	3-11	4-2	4-5	4-8	5-0	5-3	5-7	5-11	6-2	6-6
500.00	4-4	4-7	4-11	5-2	5-6	5-10	6-2	6-6	6-10	7-3
525.00	4-9	5-1	5-5	5-9	6-1	6-5	6-10	7-2	7-7	8-0
550.00	5-3	5-7	5-11	6-3	6-8	7-1	7-6	7-11	8-4	8-9
575.00	5-9	6-1	6-6	6-11	7-4	7-9	8-2	8-8	9-1	9-7
600.00	6-3	6-8	7-1	7-6	7-11	8-5	8-11	9-5	9-11	10-5
625.00	6-9	7-2	7-8	8-1	8-7	9-2	9-8	10-2	10-9	11-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
275.00	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-4
300.00	1-8	1-9	1-11	2-0	2-2	2-3	2-5	2-6	2-8	2-9
325.00	2-0	2-1	2-3	2-4	2-6	2-8	2-9	2-11	3-1	3-3
350.00	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9
375.00	2-7	2-9	2-11	3-2	3-4	3-6	3-9	3-11	4-1	4-4
400.00	3-0	3-2	3-4	3-7	3-9	4-0	4-3	4-5	4-8	4-11
425.00	3-4	3-7	3-10	4-0	4-3	4-6	4-9	5-0	5-3	5-6
450.00	3-9	4-0	4-3	4-6	4-9	5-1	5-4	5-8	5-11	6-2
475.00	4-2	4-5	4-9	5-0	5-4	5-8	5-11	6-3	6-7	6-11
500.00	4-8	4-11	5-3	5-7	5-11	6-3	6-7	6-11	7-4	7-8
525.00	5-1	5-5	5-9	6-2	6-6	6-11	7-3	7-8	8-1	8-5
550.00	5-7	6-0	6-4	6-9	7-2	7-7	8-0	8-5	8-10	9-3
575.00	6-2	6-6	6-11	7-4	7-10	8-3	8-9	9-2	9-8	10-1
600.00	6-8	7-1	7-7	8-0	8-6	9-0	9-6	10-0	10-6	11-0
625.00	7-3	7-9	8-2	8-9	9-3	9-9	10-4	10-10	11-5	11-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.233

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.032	0.38	3437	0.37	3500*
0	0	0	0	0.197	0.07	3638	0.07	3663
30	0	0	0	0.197	0.08	3247	0.07	3341
40	0	0	0	0.197	0.08	3116	0.08	3231
50	0	0	0	0.197	0.08	2985	0.08	3120
60	0	0	0	0.197	0.09	2855	0.08	3007
70	0	0	0	0.197	0.09	2725	0.09	2892
80	0	0	0	0.197	0.09	2594	0.09	2776
90	0	0	0	0.197	0.1	2464	0.09	2659
100	0	0	0	0.197	0.11	2334	0.1	2541
110	0	0	0	0.197	0.11	2204	0.1	2421
120	0	0	0	0.197	0.12	2074	0.11	2300
130	0	0	0	0.197	0.13	1944	0.11	2177
167	0	0	0	0.197	0.17	1465	0.14	1716
212	0	0	0	0.197	0.25	987	0.21	1147

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.032	1.49	3462	1.47	3500*
0	0	0	0	0.197	0.28	3486	0.28	3515
30	0	0	0	0.197	0.32	3096	0.31	3191
40	0	0	0	0.197	0.33	2967	0.32	3080
50	0	0	0	0.197	0.35	2837	0.33	2967
60	0	0	0	0.197	0.36	2708	0.35	2853
70	0	0	0	0.197	0.38	2578	0.36	2739
80	0	0	0	0.197	0.4	2449	0.38	2622
90	0	0	0	0.197	0.42	2321	0.39	2505
100	0	0	0	0.197	0.45	2192	0.41	2387
110	0	0	0	0.197	0.48	2064	0.43	2267
120	0	0	0	0.197	0.51	1937	0.46	2147
130	0	0	0	0.197	0.54	1811	0.49	2026
167	0	0	0	0.197	0.73	1353	0.63	1575
212	0	0	0	0.197	1.06	926	0.93	1059

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.234

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.032	3.33	3494	3.32	3500*
0	0	0	0	0.197	0.69	3235	0.68	3267
30	0	0	0	0.197	0.78	2850	0.75	2939
40	0	0	0	0.197	0.81	2722	0.78	2827
50	0	0	0	0.197	0.85	2594	0.82	2714
60	0	0	0	0.197	0.9	2467	0.85	2600
70	0	0	0	0.197	0.95	2341	0.89	2485
80	0	0	0	0.197	1	2215	0.94	2369
90	0	0	0	0.197	1.06	2091	0.98	2253
100	0	0	0	0.197	1.13	1967	1.04	2136
110	0	0	0	0.197	1.2	1845	1.1	2019
120	0	0	0	0.197	1.29	1724	1.17	1902
130	0	0	0	0.197	1.38	1606	1.24	1786
167	0	0	0	0.197	1.85	1197	1.62	1366
212	0	0	0	0.197	2.58	859	2.33	952

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.032	5.9	3500	5.9	3500*
0	0	0	0	0.197	1.38	2851	1.35	2921
30	0	0	0	0.197	1.59	2476	1.52	2591
40	0	0	0	0.197	1.68	2352	1.59	2479
50	0	0	0	0.197	1.77	2230	1.66	2367
60	0	0	0	0.197	1.87	2110	1.75	2255
70	0	0	0	0.197	1.98	1991	1.84	2143
80	0	0	0	0.197	2.1	1874	1.94	2032
90	0	0	0	0.197	2.24	1760	2.05	1921
100	0	0	0	0.197	2.39	1648	2.18	1811
110	0	0	0	0.197	2.56	1541	2.31	1702
120	0	0	0	0.197	2.74	1437	2.47	1596
130	0	0	0	0.197	2.95	1338	2.64	1493
167	0	0	0	0.197	3.79	1040	3.44	1147
212	0	0	0	0.197	4.91	803	4.58	861

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.235

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	9.23	3500	9.23	3500*
0	0	0	0	0.197	2.59	2374	2.48	2485
30	0	0	0	0.197	3.04	2026	2.84	2164
40	0	0	0	0.197	3.22	1915	2.99	2059
50	0	0	0	0.197	3.41	1806	3.15	1954
60	0	0	0	0.197	3.62	1702	3.33	1851
70	0	0	0	0.197	3.85	1601	3.52	1750
80	0	0	0	0.197	4.09	1505	3.73	1652
90	0	0	0	0.197	4.36	1414	3.96	1557
100	0	0	0	0.197	4.64	1328	4.2	1466
110	0	0	0	0.197	4.94	1248	4.47	1378
120	0	0	0	0.197	5.25	1173	4.75	1296
130	0	0	0	0.197	5.57	1105	5.05	1219
167	0	0	0	0.197	6.72	916	6.28	980
212	0	0	0	0.197	8.1	761	7.7	801

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-0	0-0	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
200.00	0-3	0-4	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-0	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5
225.00	0-5	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
250.00	0-6	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6
225.00	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7
250.00	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8	0-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.238

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6
225.00	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-7
250.00	0-6	0-6	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9
275.00	0-7	0-8	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11
300.00	0-9	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1
325.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-3
350.00	1-0	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6
375.00	1-2	1-2	1-3	1-3	1-4	1-5	1-6	1-6	1-7	1-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4
175.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6
225.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8
250.00	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10
275.00	0-8	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0
300.00	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-2	1-2
325.00	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5
350.00	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-8
375.00	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.239

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7
225.00	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11
275.00	0-8	0-9	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1
300.00	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-3	1-4
325.00	1-0	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6
350.00	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9
375.00	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-10	1-11	2-0
400.00	1-6	1-6	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-4
425.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-7
450.00	1-10	1-11	2-0	2-1	2-3	2-4	2-5	2-7	2-9	2-11
475.00	2-1	2-2	2-3	2-4	2-6	2-7	2-9	2-11	3-1	3-3
500.00	2-3	2-5	2-6	2-7	2-9	2-10	3-0	3-2	3-5	3-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8
225.00	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10
250.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0
275.00	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-2	1-3
300.00	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5
325.00	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
350.00	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-9	1-10	2-0
375.00	1-4	1-5	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-3
400.00	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-3	2-5	2-7
425.00	1-9	1-10	1-11	2-0	2-1	2-3	2-4	2-6	2-8	2-11
450.00	1-11	2-0	2-1	2-3	2-4	2-6	2-8	2-10	3-0	3-3
475.00	2-2	2-3	2-4	2-6	2-8	2-9	3-0	3-2	3-4	3-7
500.00	2-4	2-6	2-7	2-9	2-11	3-1	3-3	3-6	3-9	4-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.240

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-8	0-9	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-1
275.00	0-10	0-10	0-11	0-11	1-0	1-1	1-2	1-2	1-3	1-4
300.00	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-7
325.00	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11
350.00	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-1	2-2
375.00	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-3	2-4	2-6
400.00	1-9	1-10	1-11	2-0	2-2	2-3	2-5	2-6	2-8	2-10
425.00	2-0	2-1	2-2	2-3	2-5	2-6	2-8	2-10	3-0	3-3
450.00	2-2	2-4	2-5	2-7	2-8	2-10	3-0	3-2	3-5	3-7
475.00	2-5	2-7	2-8	2-10	3-0	3-2	3-4	3-7	3-10	4-0
500.00	2-9	2-10	3-0	3-2	3-4	3-6	3-9	3-11	4-2	4-6
525.00	3-0	3-2	3-4	3-6	3-8	3-11	4-1	4-4	4-8	4-11
550.00	3-3	3-5	3-7	3-10	4-0	4-3	4-6	4-9	5-1	5-5
575.00	3-7	3-9	3-11	4-2	4-5	4-8	4-11	5-3	5-7	5-11
600.00	3-11	4-1	4-4	4-6	4-9	5-1	5-4	5-8	6-1	6-5
625.00	4-3	4-5	4-8	4-11	5-2	5-6	5-10	6-2	6-7	7-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3
275.00	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6
300.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
325.00	1-3	1-3	1-4	1-5	1-6	1-7	1-9	1-10	2-0	2-1
350.00	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-2	2-3	2-5
375.00	1-7	1-9	1-10	1-11	2-0	2-2	2-4	2-5	2-7	2-9
400.00	1-10	1-11	2-1	2-2	2-4	2-6	2-7	2-9	3-0	3-2
425.00	2-1	2-2	2-4	2-6	2-7	2-9	2-11	3-2	3-4	3-7
450.00	2-4	2-6	2-7	2-9	2-11	3-1	3-4	3-6	3-9	4-0
475.00	2-7	2-9	2-11	3-1	3-3	3-6	3-8	3-11	4-2	4-5
500.00	2-11	3-0	3-3	3-5	3-7	3-10	4-1	4-4	4-8	4-11
525.00	3-2	3-4	3-7	3-9	4-0	4-3	4-6	4-10	5-1	5-5
550.00	3-6	3-8	3-11	4-1	4-5	4-8	4-11	5-3	5-7	6-0
575.00	3-10	4-0	4-3	4-6	4-9	5-1	5-5	5-9	6-2	6-6
600.00	4-2	4-5	4-8	4-11	5-3	5-6	5-11	6-3	6-8	7-1
625.00	4-6	4-9	5-0	5-4	5-8	6-0	6-5	6-10	7-3	7-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.241

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR #6 3-STRAND BARE COPPER CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION

390 LB TENSION ---------- 816.2

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

390 LB TENSION ---------- 816.7

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

390 LB TENSION ---------- 816.12

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

390 LB TENSION ---------- 816.17

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REFERENCE

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805; SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

#6 3-STRAND BARE COPPER TABLE OF CONTENTS

OH816.1

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.157	0.50	390	0.50	390*
25	0	0	0	0.083	0.28	365	0.28	368
30	0	0	0	0.083	0.30	341	0.30	347
40	0	0	0	0.083	0.35	295	0.34	306
50	0	0	0	0.083	0.41	251	0.39	266
60	0	0	0	0.083	0.49	211	0.45	229
70	0	0	0	0.083	0.59	176	0.53	195
80	0	0	0	0.083	0.70	147	0.63	164
90	0	0	0	0.083	0.83	124	0.74	140
100	0	0	0	0.083	0.96	107	0.86	120
110	0	0	0	0.083	1.09	95	0.98	105
120	0	0	0	0.083	1.21	85	1.11	93
130	0	0	0	0.083	1.33	77	1.23	84
167	0	0	0	0.083	1.72	60	1.63	63
212	0	0	0	0.083	2.11	49	2.03	51

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.157	2.02	390	2.02	390*
25	0	0	0	0.083	1.34	308	1.31	316
30	0	0	0	0.083	1.42	291	1.38	300
40	0	0	0	0.083	1.59	259	1.53	270
50	0	0	0	0.083	1.78	232	1.70	243
60	0	0	0	0.083	1.98	208	1.88	219
70	0	0	0	0.083	2.19	188	2.08	199
80	0	0	0	0.083	2.40	172	2.27	181
90	0	0	0	0.083	2.60	159	2.47	167
100	0	0	0	0.083	2.81	147	2.67	155
110	0	0	0	0.083	3.00	138	2.86	144
120	0	0	0	0.083	3.19	129	3.05	135
130	0	0	0	0.083	3.38	122	3.24	127
167	0	0	0	0.083	4.01	103	3.88	107
212	0	0	0	0.083	4.69	88	4.57	90

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

OH816.2

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.157	4.54	390	4.54	390*
25	0	0	0	0.083	3.55	262	3.45	269
30	0	0	0	0.083	3.68	252	3.58	259
40	0	0	0	0.083	3.96	235	3.84	242
50	0	0	0	0.083	4.23	220	4.10	226
60	0	0	0	0.083	4.50	207	4.36	213
70	0	0	0	0.083	4.76	195	4.62	201
80	0	0	0	0.083	5.02	185	4.88	191
90	0	0	0	0.083	5.28	176	5.13	181
100	0	0	0	0.083	5.52	168	5.37	173
110	0	0	0	0.083	5.77	161	5.61	166
120	0	0	0	0.083	6.00	155	5.85	159
130	0	0	0	0.083	6.23	149	6.08	153
167	0	0	0	0.083	7.04	132	6.89	135
212	0	0	0	0.083	7.93	117	7.78	120

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN GO95 LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

OH816.3

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7
100.00	0-3	0-4	0-4	0-5	0-5	0-6	0-8	0-9	0-10	1-0
125.00	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-2	1-4	1-6
150.00	0-7	0-8	0-9	0-10	1-0	1-2	1-5	1-8	1-11	2-3
175.00	0-10	0-11	1-0	1-2	1-5	1-7	1-11	2-3	2-8	3-0
200.00	1-1	1-2	1-4	1-7	1-10	2-1	2-6	2-11	3-5	3-11

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6	0-7
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-1
125.00	0-5	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-6	1-8
150.00	0-7	0-8	0-9	0-11	1-1	1-4	1-7	1-10	2-2	2-5
175.00	0-10	0-11	1-1	1-3	1-6	1-10	2-2	2-7	2-11	3-4
200.00	1-1	1-3	1-5	1-8	1-11	2-4	2-10	3-4	3-10	4-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

OH816.4

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9
125.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1
150.00	0-8	0-9	0-10	0-11	1-1	1-2	1-3	1-5	1-6	1-7
175.00	0-11	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2-2
200.00	1-3	1-5	1-6	1-8	1-11	2-1	2-3	2-6	2-8	2-10
225.00	1-7	1-9	1-11	2-2	2-5	2-8	2-11	3-2	3-5	3-8
250.00	1-11	2-2	2-5	2-8	2-11	3-3	3-7	3-10	4-2	4-6

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-8	0-9
125.00	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
150.00	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-7	1-8
175.00	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-0	2-2	2-4
200.00	1-3	1-5	1-7	1-9	2-0	2-2	2-5	2-7	2-10	3-0
225.00	1-7	1-10	2-0	2-3	2-6	2-9	3-0	3-4	3-7	3-10
250.00	2-0	2-3	2-6	2-9	3-1	3-5	3-9	4-1	4-5	4-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

OH816.5

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-3	1-4	1-5
175.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
200.00	1-6	1-7	1-8	1-10	1-11	2-1	2-2	2-3	2-5	2-6
225.00	1-10	2-0	2-2	2-4	2-5	2-7	2-9	2-11	3-0	3-2
250.00	2-4	2-6	2-8	2-10	3-0	3-3	3-5	3-7	3-9	3-11
275.00	2-10	3-0	3-3	3-5	3-8	3-11	4-1	4-4	4-6	4-9
300.00	3-4	3-7	3-10	4-1	4-4	4-7	4-11	5-2	5-4	5-7
325.00	3-11	4-2	4-6	4-10	5-1	5-5	5-9	6-0	6-4	6-7
350.00	4-6	4-11	5-3	5-7	5-11	6-3	6-8	7-0	7-4	7-8
375.00	5-2	5-7	6-0	6-5	6-10	7-3	7-7	8-0	8-5	8-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-5
175.00	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-0
200.00	1-6	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-7
225.00	1-11	2-1	2-3	2-5	2-6	2-8	2-10	3-0	3-1	3-3
250.00	2-4	2-7	2-9	2-11	3-1	3-4	3-6	3-8	3-10	4-0
275.00	2-10	3-1	3-4	3-7	3-9	4-0	4-3	4-5	4-8	4-10
300.00	3-5	3-8	3-11	4-3	4-6	4-9	5-0	5-3	5-6	5-9
325.00	4-0	4-4	4-8	5-0	5-3	5-7	5-11	6-2	6-6	6-9
350.00	4-8	5-0	5-5	5-9	6-1	6-6	6-10	7-2	7-6	7-10
375.00	5-4	5-9	6-2	6-7	7-0	7-5	7-10	8-3	8-8	9-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 6 OF 21

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

OH816.6

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.199	0.64	390	0.64	390*
20	0	0	0	0.083	0.22	477	0.22	477
30	0	0	0	0.083	0.24	434	0.24	434
40	0	0	0	0.083	0.26	392	0.26	392
50	0	0	0	0.083	0.30	345	0.29	350
60	0	0	0	0.083	0.35	298	0.33	309
70	0	0	0	0.083	0.41	254	0.38	269
80	0	0	0	0.083	0.48	214	0.45	231
90	0	0	0	0.083	0.58	178	0.52	197
100	0	0	0	0.083	0.70	148	0.62	166
110	0	0	0	0.083	0.82	125	0.73	141
120	0	0	0	0.083	0.95	108	0.85	121
130	0	0	0	0.083	1.08	95	0.98	106
167	0	0	0	0.083	1.51	68	1.41	73
212	0	0	0	0.083	1.94	53	1.85	56

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.199	2.55	390	2.55	390*
20	0	0	0	0.083	1.16	356	1.15	360
30	0	0	0	0.083	1.30	318	1.27	325
40	0	0	0	0.083	1.46	283	1.41	293
50	0	0	0	0.083	1.63	253	1.57	263
60	0	0	0	0.083	1.83	226	1.74	237
70	0	0	0	0.083	2.03	203	1.93	214
80	0	0	0	0.083	2.24	185	2.12	195
90	0	0	0	0.083	2.44	169	2.32	178
100	0	0	0	0.083	2.65	156	2.52	164
110	0	0	0	0.083	2.85	145	2.71	152
120	0	0	0	0.083	3.05	136	2.91	142
130	0	0	0	0.083	3.24	128	3.10	133
167	0	0	0	0.083	3.89	106	3.75	110
212	0	0	0	0.083	4.58	90	4.46	93

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 7 OF 21

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

OH816.7

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.199	5.74	390	5.74	390*
20	0	0	0	0.083	3.79	245	3.68	252
30	0	0	0	0.083	4.06	229	3.94	236
40	0	0	0	0.083	4.33	214	4.20	221
50	0	0	0	0.083	4.60	202	4.46	208
60	0	0	0	0.083	4.86	191	4.72	197
70	0	0	0	0.083	5.12	181	4.97	187
80	0	0	0	0.083	5.37	173	5.22	178
90	0	0	0	0.083	5.62	165	5.47	170
100	0	0	0	0.083	5.86	159	5.70	163
110	0	0	0	0.083	6.09	153	5.94	157
120	0	0	0	0.083	6.32	147	6.17	151
130	0	0	0	0.083	6.54	142	6.39	146
167	0	0	0	0.083	7.32	127	7.17	130
212	0	0	0	0.083	8.19	114	8.04	116

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-9
125.00	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-2
150.00	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-5	1-8
175.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-11	2-3
200.00	0-10	0-11	1-1	1-2	1-4	1-6	1-9	2-1	2-6	2-11

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-10
125.00	0-4	0-4	0-5	0-6	0-6	0-8	0-9	0-11	1-1	1-3
150.00	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-7	1-10
175.00	0-8	0-9	0-10	0-11	1-1	1-3	1-6	1-9	2-2	2-6
200.00	0-10	0-11	1-1	1-2	1-5	1-7	1-11	2-4	2-9	3-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-8
125.00	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1
150.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-6
175.00	0-11	1-0	1-1	1-2	1-4	1-6	1-7	1-9	1-11	2-1
200.00	1-2	1-3	1-5	1-7	1-9	1-11	2-1	2-4	2-6	2-9
225.00	1-5	1-7	1-9	2-0	2-2	2-5	2-8	2-11	3-2	3-5
250.00	1-9	2-0	2-2	2-5	2-9	3-0	3-4	3-7	3-11	4-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9
125.00	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-1
150.00	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4	1-6	1-7
175.00	0-11	1-0	1-1	1-3	1-5	1-7	1-9	1-10	2-0	2-2
200.00	1-2	1-4	1-5	1-8	1-10	2-0	2-3	2-5	2-8	2-10
225.00	1-6	1-8	1-10	2-1	2-4	2-7	2-10	3-1	3-4	3-7
250.00	1-10	2-0	2-3	2-7	2-10	3-2	3-6	3-10	4-2	4-5

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SHEET 10 OF 21

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

OH816.10

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-4	1-5	1-6
175.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0
200.00	1-8	1-9	1-10	2-0	2-1	2-3	2-4	2-5	2-6	2-8
225.00	2-1	2-3	2-4	2-6	2-8	2-10	2-11	3-1	3-2	3-4
250.00	2-7	2-9	2-11	3-1	3-3	3-5	3-8	3-10	4-0	4-1
275.00	3-1	3-4	3-6	3-9	4-0	4-2	4-5	4-7	4-10	5-0
300.00	3-8	3-11	4-2	4-6	4-9	5-0	5-3	5-6	5-8	5-11
325.00	4-4	4-8	4-11	5-3	5-6	5-10	6-2	6-5	6-8	7-0
350.00	5-0	5-4	5-9	6-1	6-5	6-9	7-1	7-5	7-9	8-1
375.00	5-9	6-2	6-7	7-0	7-5	7-9	8-2	8-7	8-11	9-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	1-0	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-6
175.00	1-3	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1
200.00	1-8	1-10	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-8
225.00	2-2	2-3	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-5
250.00	2-8	2-10	3-0	3-2	3-5	3-7	3-9	3-11	4-1	4-3
275.00	3-2	3-5	3-8	3-10	4-1	4-4	4-6	4-9	4-11	5-1
300.00	3-9	4-1	4-4	4-7	4-10	5-1	5-4	5-7	5-10	6-1
325.00	4-5	4-9	5-1	5-5	5-9	6-0	6-4	6-7	6-11	7-2
350.00	5-2	5-6	5-11	6-3	6-7	7-0	7-4	7-8	8-0	8-4
375.00	5-11	6-4	6-9	7-2	7-7	8-0	8-5	8-9	9-2	9-6

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SHEET 11 OF 21

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

OH816.11

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.321	1.03	390	1.03	390*
20	0	0	0	0.083	0.26	398	0.26	398
30	0	0	0	0.083	0.29	352	0.29	356
40	0	0	0	0.083	0.34	305	0.33	315
50	0	0	0	0.083	0.40	261	0.37	275
60	0	0	0	0.083	0.47	220	0.44	237
70	0	0	0	0.083	0.56	183	0.51	202
80	0	0	0	0.083	0.68	152	0.60	171
90	0	0	0	0.083	0.80	129	0.71	145
100	0	0	0	0.083	0.93	111	0.83	124
110	0	0	0	0.083	1.06	97	0.96	108
120	0	0	0	0.083	1.19	87	1.08	95
130	0	0	0	0.083	1.31	79	1.20	86
167	0	0	0	0.083	1.70	61	1.60	64
212	0	0	0	0.083	2.10	49	2.01	51

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.321	4.12	390	4.12	390*
20	0	0	0	0.083	2.53	163	2.40	172
30	0	0	0	0.083	2.73	151	2.60	159
40	0	0	0	0.083	2.93	141	2.79	148
50	0	0	0	0.083	3.12	132	2.98	138
60	0	0	0	0.083	3.31	125	3.17	130
70	0	0	0	0.083	3.49	118	3.35	123
80	0	0	0	0.083	3.67	113	3.53	117
90	0	0	0	0.083	3.84	108	3.70	112
100	0	0	0	0.083	4.00	103	3.87	107
110	0	0	0	0.083	4.16	99	4.03	103
120	0	0	0	0.083	4.32	96	4.18	99
130	0	0	0	0.083	4.47	93	4.34	95
167	0	0	0	0.083	4.99	83	4.87	85
212	0	0	0	0.083	5.57	74	5.46	76

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.321	9.29	390	9.29	390*
20	0	0	0	0.083	7.73	120	7.58	123
30	0	0	0	0.083	7.92	118	7.77	120
40	0	0	0	0.083	8.11	115	7.96	117
50	0	0	0	0.083	8.29	112	8.14	114
60	0	0	0	0.083	8.47	110	8.33	112
70	0	0	0	0.083	8.65	108	8.51	109
80	0	0	0	0.083	8.82	106	8.68	107
90	0	0	0	0.083	8.99	104	8.85	105
100	0	0	0	0.083	9.16	102	9.02	103
110	0	0	0	0.083	9.33	100	9.19	101
120	0	0	0	0.083	9.49	98	9.36	100
130	0	0	0	0.083	9.65	97	9.52	98
167	0	0	0	0.083	10.23	91	10.10	92
212	0	0	0	0.083	10.89	86	10.77	87

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

OH816.13

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-6	0-6
100.00	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-10	0-11
125.00	0-5	0-5	0-6	0-7	0-8	0-10	0-11	1-1	1-4	1-6
150.00	0-7	0-8	0-9	0-10	1-0	1-2	1-4	1-7	1-10	2-2
175.00	0-10	0-11	1-0	1-2	1-4	1-7	1-10	2-2	2-7	2-11
200.00	1-0	1-2	1-4	1-6	1-9	2-1	2-5	2-10	3-4	3-10

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-5	0-6	0-7
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-10	0-11	1-1
125.00	0-5	0-5	0-6	0-7	0-9	0-11	1-1	1-3	1-5	1-8
150.00	0-7	0-8	0-9	0-11	1-1	1-3	1-6	1-10	2-1	2-5
175.00	0-10	0-11	1-0	1-3	1-5	1-9	2-1	2-5	2-10	3-3
200.00	1-0	1-2	1-4	1-7	1-11	2-3	2-8	3-3	3-9	4-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0
125.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7
150.00	1-4	1-6	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-3
175.00	1-10	2-0	2-2	2-3	2-5	2-7	2-8	2-10	3-0	3-1
200.00	2-5	2-7	2-10	3-0	3-2	3-4	3-6	3-8	3-10	4-0
225.00	3-0	3-3	3-6	3-9	4-0	4-3	4-6	4-8	4-11	5-1
250.00	3-9	4-1	4-4	4-8	4-11	5-3	5-6	5-9	6-1	6-4

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-0
125.00	1-0	1-1	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-7
150.00	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-2	2-3	2-4
175.00	1-11	2-1	2-3	2-5	2-6	2-8	2-10	2-11	3-1	3-2
200.00	2-6	2-9	2-11	3-1	3-4	3-6	3-8	3-10	4-0	4-2
225.00	3-2	3-5	3-9	3-11	4-2	4-5	4-8	4-10	5-1	5-3
250.00	3-11	4-3	4-7	4-11	5-2	5-5	5-9	6-0	6-3	6-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

OH816.15

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-11	1-11	2-0	2-0	2-1	2-1	2-2	2-3	2-3	2-4
175.00	2-7	2-8	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-1
200.00	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1
225.00	4-3	4-4	4-6	4-7	4-8	4-9	4-11	5-0	5-1	5-2
250.00	5-3	5-5	5-6	5-8	5-9	5-11	6-0	6-2	6-3	6-5
275.00	6-4	6-6	6-8	6-10	7-0	7-2	7-4	7-5	7-7	7-9
300.00	7-7	7-9	8-0	8-2	8-4	8-6	8-8	8-10	9-0	9-2
325.00	8-11	9-1	9-4	9-7	9-9	10-0	10-2	10-5	10-7	10-9
350.00	10-4	10-7	10-10	11-1	11-4	11-7	11-10	12-1	12-3	12-6
375.00	11-10	12-2	12-5	12-9	13-0	13-4	13-7	13-10	14-1	14-4

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-11	2-0	2-0	2-1	2-1	2-2	2-2	2-3	2-3	2-4
175.00	2-8	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-1	3-2
200.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
225.00	4-4	4-5	4-7	4-8	4-9	4-10	5-0	5-1	5-2	5-3
250.00	5-4	5-6	5-8	5-9	5-11	6-0	6-2	6-3	6-4	6-6
275.00	6-6	6-8	6-10	7-0	7-1	7-3	7-5	7-7	7-8	7-10
300.00	7-9	7-11	8-1	8-3	8-6	8-8	8-10	9-0	9-2	9-4
325.00	9-1	9-4	9-6	9-9	9-11	10-2	10-4	10-7	10-9	10-11
350.00	10-6	10-9	11-0	11-3	11-6	11-9	12-0	12-3	12-6	12-8
375.00	12-1	12-5	12-8	13-0	13-3	13-6	13-10	14-1	14-4	14-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

OH816.16

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	0.534	1.71	390	1.71	390*
20	0	0	0	0.083	0.60	172	0.54	191
30	0	0	0	0.083	0.72	144	0.64	162
40	0	0	0	0.083	0.84	122	0.75	137
50	0	0	0	0.083	0.98	106	0.87	118
60	0	0	0	0.083	1.10	93	1.00	103
70	0	0	0	0.083	1.23	84	1.12	92
80	0	0	0	0.083	1.34	77	1.24	83
90	0	0	0	0.083	1.46	71	1.35	76
100	0	0	0	0.083	1.56	66	1.46	71
110	0	0	0	0.083	1.66	62	1.57	66
120	0	0	0	0.083	1.76	59	1.67	62
130	0	0	0	0.083	1.85	56	1.76	59
167	0	0	0	0.083	2.16	48	2.08	50
212	0	0	0	0.083	2.49	41	2.42	43

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	0.534	6.88	390	6.88	390*
20	0	0	0	0.083	5.84	71	5.73	72
30	0	0	0	0.083	5.96	69	5.85	71
40	0	0	0	0.083	6.07	68	5.97	69
50	0	0	0	0.083	6.19	67	6.08	68
60	0	0	0	0.083	6.30	66	6.19	67
70	0	0	0	0.083	6.41	65	6.30	66
80	0	0	0	0.083	6.51	64	6.41	65
90	0	0	0	0.083	6.62	63	6.52	64
100	0	0	0	0.083	6.72	62	6.62	63
110	0	0	0	0.083	6.83	61	6.73	62
120	0	0	0	0.083	6.93	60	6.83	61
130	0	0	0	0.083	7.03	59	6.93	60
167	0	0	0	0.083	7.38	56	7.29	57
212	0	0	0	0.083	7.80	53	7.71	54

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 17 OF 21

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

OH816.17

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	0.534	15.57	390	15.57	390*
20	0	0	0	0.083	14.57	64	14.46	65
30	0	0	0	0.083	14.68	64	14.57	64
40	0	0	0	0.083	14.78	63	14.68	64
50	0	0	0	0.083	14.89	63	14.79	63
60	0	0	0	0.083	15.00	63	14.89	63
70	0	0	0	0.083	15.10	62	15.00	62
80	0	0	0	0.083	15.21	62	15.11	62
90	0	0	0	0.083	15.31	61	15.21	62
100	0	0	0	0.083	15.41	61	15.31	61
110	0	0	0	0.083	15.52	60	15.42	61
120	0	0	0	0.083	15.62	60	15.52	60
130	0	0	0	0.083	15.72	60	15.62	60
167	0	0	0	0.083	16.09	58	15.99	59
212	0	0	0	0.083	16.53	57	16.44	57

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-4	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-11
100.00	0-6	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-6	1-7
125.00	0-10	1-0	1-2	1-4	1-7	1-9	1-11	2-1	2-3	2-5
150.00	1-3	1-5	1-8	2-0	2-3	2-6	2-9	3-1	3-4	3-6
175.00	1-8	1-11	2-4	2-8	3-1	3-5	3-10	4-2	4-6	4-10
200.00	2-2	2-7	3-0	3-6	4-0	4-6	5-0	5-5	5-10	6-3

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11	0-11
100.00	0-7	0-9	0-10	1-0	1-1	1-3	1-4	1-5	1-7	1-8
125.00	0-11	1-1	1-4	1-6	1-9	1-11	2-1	2-3	2-5	2-7
150.00	1-4	1-7	1-11	2-2	2-6	2-9	3-0	3-3	3-6	3-9
175.00	1-10	2-2	2-7	3-0	3-5	3-9	4-1	4-6	4-9	5-1
200.00	2-5	2-10	3-5	3-11	4-5	4-11	5-5	5-10	6-3	6-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

OH816.19

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-6	1-6	1-6	1-7	1-7	1-7	1-8	1-8	1-8
125.00	2-3	2-3	2-4	2-4	2-5	2-6	2-6	2-7	2-7	2-8
150.00	3-3	3-3	3-4	3-5	3-6	3-7	3-7	3-8	3-9	3-9
175.00	4-5	4-6	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-2
200.00	5-9	5-10	6-0	6-1	6-2	6-4	6-5	6-6	6-7	6-9
225.00	7-3	7-5	7-7	7-8	7-10	8-0	8-1	8-3	8-5	8-6
250.00	9-0	9-2	9-4	9-6	9-8	9-10	10-0	10-2	10-4	10-6

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-6	1-6	1-7	1-7	1-7	1-8	1-8	1-8	1-8
125.00	2-3	2-4	2-4	2-5	2-5	2-6	2-7	2-7	2-7	2-8
150.00	3-3	3-4	3-5	3-6	3-6	3-7	3-8	3-9	3-9	3-10
175.00	4-6	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3
200.00	5-10	6-0	6-1	6-2	6-4	6-5	6-6	6-7	6-9	6-10
225.00	7-5	7-7	7-8	7-10	8-0	8-1	8-3	8-5	8-6	8-8
250.00	9-2	9-4	9-6	9-8	9-10	10-0	10-2	10-4	10-6	10-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

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STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

OH816.20

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-7	3-8	3-8	3-8	3-9	3-9	3-9	3-10	3-10	3-10
175.00	4-11	4-11	5-0	5-0	5-1	5-1	5-2	5-2	5-2	5-3
200.00	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-9	6-10	6-10
225.00	8-1	8-2	8-3	8-4	8-4	8-5	8-6	8-7	8-7	8-8
250.00	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-7	10-8
275.00	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11
300.00	14-6	14-7	14-8	14-9	14-11	15-0	15-1	15-3	15-4	15-5
325.00	17-0	17-1	17-3	17-4	17-6	17-7	17-9	17-10	18-0	18-1
350.00	19-8	19-10	20-0	20-2	20-4	20-5	20-7	20-9	20-10	21-0
375.00	22-8	22-10	23-0	23-2	23-4	23-6	23-8	23-10	24-0	24-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-8	3-8	3-8	3-9	3-9	3-9	3-10	3-10	3-10	3-10
175.00	4-11	5-0	5-0	5-1	5-1	5-2	5-2	5-2	5-3	5-3
200.00	6-6	6-6	6-7	6-7	6-8	6-8	6-9	6-10	6-10	6-11
225.00	8-2	8-3	8-4	8-4	8-5	8-6	8-6	8-7	8-8	8-9
250.00	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-7	10-8	10-9
275.00	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	13-0
300.00	14-7	14-8	14-9	14-11	15-0	15-1	15-2	15-4	15-5	15-6
325.00	17-1	17-3	17-4	17-6	17-7	17-9	17-10	18-0	18-1	18-3
350.00	19-10	20-0	20-2	20-3	20-5	20-7	20-9	20-10	21-0	21-2
375.00	22-10	23-0	23-2	23-4	23-6	23-8	23-10	24-0	24-2	24-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

OH816.21

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR #4 3-STRAND BARE COPPER CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION

550 LB TENSION ---------- 817.2

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

550 LB TENSION ---------- 817.7

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

550 LB TENSION ---------- 817.12

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

550 LB TENSION ---------- 817.17

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REFERENCE

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805; SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.212	0.48	550	0.48	550*
25	0	0	0	0.128	0.30	529	0.30	532
30	0	0	0	0.128	0.32	504	0.31	511
40	0	0	0	0.128	0.35	456	0.34	469
50	0	0	0	0.128	0.39	408	0.38	427
60	0	0	0	0.128	0.44	362	0.42	385
70	0	0	0	0.128	0.50	318	0.46	345
80	0	0	0	0.128	0.58	278	0.52	307
90	0	0	0	0.128	0.66	242	0.59	271
100	0	0	0	0.128	0.76	210	0.67	239
110	0	0	0	0.128	0.87	184	0.76	210
120	0	0	0	0.128	0.98	163	0.86	186
130	0	0	0	0.128	1.10	146	0.97	165
167	0	0	0	0.128	1.50	107	1.37	117
212	0	0	0	0.128	1.92	84	1.80	89

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.212	1.93	550	1.93	550*
25	0	0	0	0.128	1.34	478	1.31	487
30	0	0	0	0.128	1.40	458	1.37	469
40	0	0	0	0.128	1.52	420	1.48	434
50	0	0	0	0.128	1.67	384	1.60	401
60	0	0	0	0.128	1.82	352	1.73	370
70	0	0	0	0.128	1.98	323	1.88	341
80	0	0	0	0.128	2.15	297	2.03	315
90	0	0	0	0.128	2.33	275	2.19	292
100	0	0	0	0.128	2.51	255	2.36	271
110	0	0	0	0.128	2.69	238	2.54	253
120	0	0	0	0.128	2.88	223	2.71	236
130	0	0	0	0.128	3.05	210	2.88	222
167	0	0	0	0.128	3.69	174	3.51	183
212	0	0	0	0.128	4.38	146	4.21	152

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.2

Span = 300 ft

Design Condition Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Final Sag ft	Final Tension lb	Initial Sag ft	Initial Tension lb
25	0	8	0	0.212	4.35	550	4.35	550*
25	0	0	0	0.128	3.37	427	3.30	437
30	0	0	0	0.128	3.49	413	3.40	424
40	0	0	0	0.128	3.71	388	3.60	400
50	0	0	0	0.128	3.95	365	3.82	377
60	0	0	0	0.128	4.18	345	4.04	357
70	0	0	0	0.128	4.42	326	4.27	338
80	0	0	0	0.128	4.66	309	4.49	321
90	0	0	0	0.128	4.89	295	4.72	305
100	0	0	0	0.128	5.13	281	4.95	291
110	0	0	0	0.128	5.36	269	5.17	279
120	0	0	0	0.128	5.59	258	5.40	267
130	0	0	0	0.128	5.82	248	5.62	257
167	0	0	0	0.128	6.62	218	6.41	225
212	0	0	0	0.128	7.52	192	7.32	197

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN GO95 LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.3

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5
100.00	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
125.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-2
150.00	0-8	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-9
175.00	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-10	2-1	2-4
200.00	1-2	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-8	3-1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
100.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10
125.00	0-5	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-2	1-4
150.00	0-8	0-9	0-9	0-11	1-0	1-2	1-4	1-6	1-9	1-11
175.00	0-11	1-0	1-1	1-2	1-4	1-6	1-9	2-0	2-4	2-8
200.00	1-2	1-3	1-5	1-7	1-9	2-0	2-4	2-8	3-1	3-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.4

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8
125.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11	1-0
150.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
175.00	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-10	1-11
200.00	1-3	1-4	1-6	1-7	1-9	1-11	2-0	2-2	2-4	2-6
225.00	1-7	1-9	1-10	2-0	2-2	2-5	2-7	2-9	3-0	3-3
250.00	2-0	2-2	2-4	2-6	2-8	2-11	3-2	3-5	3-8	4-0

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-8
125.00	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1
150.00	0-9	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6
175.00	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-1
200.00	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-8
225.00	1-7	1-9	1-11	2-1	2-4	2-6	2-9	2-11	3-2	3-5
250.00	2-0	2-2	2-5	2-7	2-10	3-1	3-4	3-8	3-11	4-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.5

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4
175.00	1-1	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-9
200.00	1-5	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2	2-4
225.00	1-10	1-11	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-11
250.00	2-3	2-4	2-6	2-8	2-10	3-0	3-1	3-3	3-5	3-7
275.00	2-8	2-10	3-0	3-3	3-5	3-7	3-9	4-0	4-2	4-4
300.00	3-2	3-5	3-7	3-10	4-0	4-3	4-6	4-9	4-11	5-2
325.00	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-6	5-10	6-1
350.00	4-4	4-7	4-11	5-2	5-6	5-10	6-1	6-5	6-9	7-1
375.00	5-0	5-4	5-8	6-0	6-4	6-8	7-0	7-5	7-9	8-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-4
175.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
200.00	1-5	1-7	1-8	1-9	1-10	2-0	2-1	2-2	2-3	2-5
225.00	1-10	2-0	2-1	2-3	2-4	2-6	2-7	2-9	2-11	3-0
250.00	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9
275.00	2-9	2-11	3-1	3-4	3-6	3-9	3-11	4-1	4-4	4-6
300.00	3-3	3-6	3-9	3-11	4-2	4-5	4-8	4-11	5-2	5-4
325.00	3-10	4-1	4-4	4-8	4-11	5-2	5-6	5-9	6-0	6-4
350.00	4-5	4-9	5-1	5-4	5-8	6-0	6-4	6-8	7-0	7-4
375.00	5-1	5-5	5-10	6-2	6-6	6-11	7-3	7-8	8-0	8-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 6 OF 21

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.6

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.262	0.60	550	0.60	550*
20	0	0	0	0.128	0.25	644	0.25	644
30	0	0	0	0.128	0.27	602	0.27	602
40	0	0	0	0.128	0.29	560	0.29	560
50	0	0	0	0.128	0.31	512	0.31	517
60	0	0	0	0.128	0.35	463	0.34	475
70	0	0	0	0.128	0.39	415	0.37	433
80	0	0	0	0.128	0.43	369	0.41	392
90	0	0	0	0.128	0.49	325	0.46	351
100	0	0	0	0.128	0.56	284	0.51	313
110	0	0	0	0.128	0.65	247	0.58	277
120	0	0	0	0.128	0.74	215	0.66	244
130	0	0	0	0.128	0.85	188	0.75	214
167	0	0	0	0.128	1.27	126	1.14	141
212	0	0	0	0.128	1.72	93	1.60	100

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.262	2.38	550	2.38	550*
20	0	0	0	0.128	1.17	547	1.17	547
30	0	0	0	0.128	1.27	504	1.26	510
40	0	0	0	0.128	1.38	463	1.35	473
50	0	0	0	0.128	1.51	424	1.46	438
60	0	0	0	0.128	1.65	388	1.58	404
70	0	0	0	0.128	1.80	356	1.72	373
80	0	0	0	0.128	1.96	326	1.86	344
90	0	0	0	0.128	2.13	300	2.01	318
100	0	0	0	0.128	2.31	277	2.18	294
110	0	0	0	0.128	2.49	257	2.34	273
120	0	0	0	0.128	2.67	240	2.52	255
130	0	0	0	0.128	2.85	224	2.69	238
167	0	0	0	0.128	3.50	183	3.32	193
212	0	0	0	0.128	4.22	152	4.04	159

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 7 OF 21

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.7

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.262	5.37	550	5.37	550*
20	0	0	0	0.128	3.40	424	3.32	434
30	0	0	0	0.128	3.63	397	3.52	409
40	0	0	0	0.128	3.86	374	3.74	386
50	0	0	0	0.128	4.09	352	3.96	364
60	0	0	0	0.128	4.33	333	4.18	345
70	0	0	0	0.128	4.57	316	4.41	327
80	0	0	0	0.128	4.80	300	4.63	311
90	0	0	0	0.128	5.04	286	4.86	296
100	0	0	0	0.128	5.27	273	5.09	283
110	0	0	0	0.128	5.50	262	5.31	271
120	0	0	0	0.128	5.73	252	5.54	260
130	0	0	0	0.128	5.95	242	5.76	250
167	0	0	0	0.128	6.74	214	6.54	221
212	0	0	0	0.128	7.63	189	7.43	194

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.8

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4
100.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7
125.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11
150.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-4
175.00	0-9	0-10	0-11	0-11	1-0	1-2	1-3	1-5	1-7	1-9
200.00	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-1	2-4

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8
125.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-11	1-0
150.00	0-7	0-7	0-8	0-8	0-9	0-10	1-0	1-1	1-3	1-5
175.00	0-9	0-10	0-11	0-11	1-1	1-2	1-4	1-6	1-9	2-0
200.00	1-0	1-1	1-2	1-3	1-5	1-6	1-9	2-0	2-3	2-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.9

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
125.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11
150.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
175.00	0-11	1-0	1-0	1-1	1-3	1-4	1-5	1-7	1-8	1-10
200.00	1-2	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-2	2-4
225.00	1-6	1-7	1-9	1-10	2-0	2-2	2-4	2-7	2-9	3-0
250.00	1-10	2-0	2-1	2-3	2-6	2-8	2-11	3-2	3-5	3-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7
125.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0
150.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5
175.00	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-9	1-11
200.00	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-6
225.00	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-11	3-2
250.00	1-10	2-0	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.10

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-4
175.00	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
200.00	1-6	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4
225.00	1-10	2-0	2-1	2-3	2-4	2-6	2-7	2-9	2-10	3-0
250.00	2-4	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-6	3-8
275.00	2-9	3-0	3-2	3-4	3-6	3-8	3-11	4-1	4-3	4-6
300.00	3-4	3-6	3-9	3-11	4-2	4-5	4-8	4-10	5-1	5-4
325.00	3-11	4-2	4-5	4-8	4-11	5-2	5-5	5-8	6-0	6-3
350.00	4-6	4-10	5-1	5-5	5-8	6-0	6-4	6-7	6-11	7-3
375.00	5-2	5-6	5-10	6-2	6-6	6-11	7-3	7-7	7-11	8-4

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-5
175.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-10
200.00	1-6	1-7	1-9	1-10	1-11	2-0	2-2	2-3	2-4	2-5
225.00	1-11	2-0	2-2	2-4	2-5	2-7	2-8	2-10	3-0	3-1
250.00	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10
275.00	2-10	3-1	3-3	3-5	3-8	3-10	4-0	4-3	4-5	4-7
300.00	3-5	3-8	3-10	4-1	4-4	4-7	4-10	5-0	5-3	5-6
325.00	4-0	4-3	4-6	4-10	5-1	5-4	5-8	5-11	6-2	6-6
350.00	4-8	4-11	5-3	5-7	5-11	6-3	6-6	6-10	7-2	7-6
375.00	5-4	5-8	6-0	6-5	6-9	7-2	7-6	7-11	8-3	8-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 11 OF 21

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.11

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.412	0.94	550	0.94	550*
20	0	0	0	0.128	0.27	582	0.27	582
30	0	0	0	0.128	0.30	538	0.30	539
40	0	0	0	0.128	0.33	488	0.32	497
50	0	0	0	0.128	0.36	440	0.35	455
60	0	0	0	0.128	0.41	393	0.39	413
70	0	0	0	0.128	0.46	347	0.43	372
80	0	0	0	0.128	0.53	305	0.48	333
90	0	0	0	0.128	0.60	266	0.54	295
100	0	0	0	0.128	0.69	231	0.61	260
110	0	0	0	0.128	0.80	201	0.70	229
120	0	0	0	0.128	0.91	177	0.79	202
130	0	0	0	0.128	1.02	157	0.90	179
167	0	0	0	0.128	1.43	112	1.30	124
212	0	0	0	0.128	1.86	86	1.74	92

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.412	3.75	550	3.75	550*
20	0	0	0	0.128	1.95	328	1.85	346
30	0	0	0	0.128	2.12	301	2.00	319
40	0	0	0	0.128	2.30	278	2.17	296
50	0	0	0	0.128	2.48	258	2.33	274
60	0	0	0	0.128	2.66	240	2.51	256
70	0	0	0	0.128	2.84	225	2.68	239
80	0	0	0	0.128	3.02	212	2.85	225
90	0	0	0	0.128	3.20	200	3.03	212
100	0	0	0	0.128	3.37	190	3.20	200
110	0	0	0	0.128	3.54	181	3.36	190
120	0	0	0	0.128	3.71	173	3.53	182
130	0	0	0	0.128	3.87	166	3.69	174
167	0	0	0	0.128	4.43	145	4.26	151
212	0	0	0	0.128	5.05	127	4.89	131

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.12

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.412	8.45	550	8.45	550*
20	0	0	0	0.128	6.48	223	6.28	230
30	0	0	0	0.128	6.69	216	6.49	222
40	0	0	0	0.128	6.89	209	6.69	216
50	0	0	0	0.128	7.09	203	6.89	209
60	0	0	0	0.128	7.29	198	7.09	204
70	0	0	0	0.128	7.49	193	7.29	198
80	0	0	0	0.128	7.68	188	7.48	193
90	0	0	0	0.128	7.86	184	7.67	188
100	0	0	0	0.128	8.05	179	7.85	184
110	0	0	0	0.128	8.23	176	8.03	180
120	0	0	0	0.128	8.41	172	8.21	176
130	0	0	0	0.128	8.58	168	8.39	172
167	0	0	0	0.128	9.20	157	9.02	160
212	0	0	0	0.128	9.92	146	9.74	149

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 13 OF 21

DESIGN TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.13

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5
100.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8
125.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-1
150.00	0-7	0-8	0-9	0-10	0-10	1-0	1-1	1-3	1-5	1-7
175.00	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-11	2-2
200.00	1-1	1-2	1-3	1-5	1-7	1-9	1-11	2-2	2-6	2-10

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-5
100.00	0-3	0-4	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-10
125.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-3
150.00	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-9
175.00	0-10	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-1	2-5
200.00	1-1	1-2	1-4	1-5	1-8	1-10	2-1	2-5	2-9	3-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.14

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-6	0-6	0-7	0-8	0-8	0-9	0-9	0-10	0-10
125.00	0-9	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-4
150.00	1-0	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-10	1-11
175.00	1-5	1-6	1-8	1-9	1-11	2-1	2-2	2-4	2-5	2-7
200.00	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4
225.00	2-4	2-6	2-9	2-11	3-2	3-5	3-7	3-10	4-1	4-3
250.00	2-11	3-2	3-5	3-8	3-11	4-2	4-5	4-9	5-0	5-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-10	0-11
125.00	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5
150.00	1-1	1-2	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-0
175.00	1-6	1-8	1-9	1-11	2-0	2-2	2-4	2-5	2-7	2-9
200.00	1-11	2-1	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6
225.00	2-6	2-8	2-11	3-2	3-4	3-7	3-10	4-1	4-3	4-6
250.00	3-1	3-4	3-7	3-11	4-2	4-5	4-9	5-0	5-3	5-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.15

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-7	1-8	1-9	1-9	1-10	1-10	1-11	2-0	2-0
175.00	2-2	2-2	2-3	2-4	2-5	2-6	2-7	2-7	2-8	2-9
200.00	2-9	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7
225.00	3-6	3-8	3-9	3-11	4-0	4-1	4-2	4-4	4-5	4-6
250.00	4-4	4-6	4-8	4-9	4-11	5-1	5-2	5-4	5-5	5-7
275.00	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-5	6-7	6-9
300.00	6-3	6-6	6-8	6-11	7-1	7-3	7-6	7-8	7-10	8-0
325.00	7-4	7-7	7-10	8-1	8-4	8-7	8-9	9-0	9-3	9-5
350.00	8-7	8-10	9-1	9-5	9-8	9-11	10-2	10-5	10-8	10-11
375.00	9-10	10-2	10-6	10-9	11-1	11-5	11-8	12-0	12-3	12-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-8	1-9	1-9	1-10	1-10	1-11	2-0	2-0	2-1
175.00	2-2	2-3	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10
200.00	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
225.00	3-8	3-9	3-11	4-0	4-1	4-3	4-4	4-5	4-6	4-8
250.00	4-6	4-8	4-9	4-11	5-1	5-2	5-4	5-6	5-7	5-9
275.00	5-5	5-7	5-9	6-0	6-2	6-3	6-5	6-7	6-9	6-11
300.00	6-6	6-8	6-11	7-1	7-3	7-6	7-8	7-10	8-1	8-3
325.00	7-7	7-10	8-1	8-4	8-7	8-9	9-0	9-3	9-5	9-8
350.00	8-10	9-1	9-5	9-8	9-11	10-2	10-5	10-8	10-11	11-2
375.00	10-1	10-5	10-9	11-1	11-5	11-8	12-0	12-4	12-7	12-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.16

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	0.679	1.54	550	1.54	550*
20	0	0	0	0.128	0.42	380	0.40	402
30	0	0	0	0.128	0.48	335	0.44	361
40	0	0	0	0.128	0.55	294	0.50	322
50	0	0	0	0.128	0.63	255	0.56	285
60	0	0	0	0.128	0.72	222	0.64	251
70	0	0	0	0.128	0.83	194	0.72	221
80	0	0	0	0.128	0.94	171	0.82	195
90	0	0	0	0.128	1.05	152	0.93	173
100	0	0	0	0.128	1.16	137	1.03	155
110	0	0	0	0.128	1.28	125	1.14	140
120	0	0	0	0.128	1.38	116	1.25	128
130	0	0	0	0.128	1.49	108	1.36	118
167	0	0	0	0.128	1.84	87	1.72	93
212	0	0	0	0.128	2.21	73	2.10	76

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	0.679	6.20	550	6.20	550*
20	0	0	0	0.128	4.78	134	4.62	139
30	0	0	0	0.128	4.92	130	4.75	135
40	0	0	0	0.128	5.05	127	4.89	131
50	0	0	0	0.128	5.18	124	5.02	128
60	0	0	0	0.128	5.31	121	5.15	125
70	0	0	0	0.128	5.43	118	5.27	122
80	0	0	0	0.128	5.55	116	5.40	119
90	0	0	0	0.128	5.67	113	5.52	116
100	0	0	0	0.128	5.79	111	5.64	114
110	0	0	0	0.128	5.91	109	5.76	112
120	0	0	0	0.128	6.02	107	5.87	109
130	0	0	0	0.128	6.13	105	5.99	107
167	0	0	0	0.128	6.53	98	6.39	101
212	0	0	0	0.128	6.99	92	6.86	94

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 17 OF 21

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.17

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	0.679	14.01	550	14.01	550*
20	0	0	0	0.128	12.65	115	12.49	116
30	0	0	0	0.128	12.77	114	12.61	115
40	0	0	0	0.128	12.89	113	12.74	114
50	0	0	0	0.128	13.01	111	12.86	113
60	0	0	0	0.128	13.13	110	12.98	112
70	0	0	0	0.128	13.25	110	13.10	111
80	0	0	0	0.128	13.37	109	13.22	110
90	0	0	0	0.128	13.49	108	13.34	109
100	0	0	0	0.128	13.60	107	13.45	108
110	0	0	0	0.128	13.72	106	13.57	107
120	0	0	0	0.128	13.83	105	13.68	106
130	0	0	0	0.128	13.94	104	13.80	105
167	0	0	0	0.128	14.36	101	14.21	102
212	0	0	0	0.128	14.84	98	14.70	99

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.18

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8
100.00	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-2
125.00	0-7	0-8	0-9	0-11	1-0	1-2	1-3	1-5	1-7	1-9
150.00	0-11	1-0	1-1	1-3	1-5	1-8	1-10	2-1	2-4	2-7
175.00	1-3	1-4	1-6	1-9	1-11	2-3	2-6	2-10	3-2	3-6
200.00	1-7	1-9	2-0	2-3	2-7	2-11	3-3	3-8	4-2	4-7

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-9
100.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-3
125.00	0-8	0-9	0-10	1-0	1-2	1-3	1-6	1-8	1-10	2-0
150.00	0-11	1-1	1-3	1-5	1-7	1-10	2-1	2-4	2-7	2-10
175.00	1-3	1-6	1-8	1-11	2-2	2-6	2-10	3-3	3-7	3-11
200.00	1-8	1-11	2-2	2-6	2-11	3-4	3-9	4-2	4-8	5-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.19

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-5	1-5	1-5
125.00	1-10	1-10	1-11	2-0	2-0	2-1	2-1	2-2	2-2	2-3
150.00	2-7	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3
175.00	3-6	3-8	3-9	3-10	3-11	4-0	4-2	4-3	4-4	4-5
200.00	4-7	4-9	4-11	5-0	5-2	5-3	5-5	5-6	5-8	5-9
225.00	5-10	6-0	6-2	6-4	6-6	6-8	6-10	7-0	7-2	7-3
250.00	7-3	7-5	7-8	7-10	8-1	8-3	8-5	8-8	8-10	9-0

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-3	1-3	1-4	1-4	1-4	1-5	1-5	1-5	1-6
125.00	1-10	1-11	2-0	2-0	2-1	2-1	2-2	2-3	2-3	2-4
150.00	2-8	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-4
175.00	3-8	3-9	3-10	4-0	4-1	4-2	4-3	4-4	4-5	4-6
200.00	4-9	4-11	5-1	5-2	5-4	5-5	5-7	5-8	5-9	5-11
225.00	6-1	6-3	6-5	6-7	6-9	6-11	7-0	7-2	7-4	7-6
250.00	7-6	7-8	7-11	8-1	8-4	8-6	8-8	8-10	9-1	9-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.20

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-1	3-2	3-2	3-3	3-3	3-3	3-4	3-4	3-4	3-5
175.00	4-3	4-3	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-7
200.00	5-7	5-7	5-8	5-8	5-9	5-10	5-10	5-11	6-0	6-0
225.00	7-0	7-1	7-2	7-3	7-4	7-4	7-5	7-6	7-7	7-7
250.00	8-8	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5
275.00	10-6	10-7	10-8	10-10	10-11	11-0	11-1	11-2	11-4	11-5
300.00	12-6	12-7	12-9	12-10	13-0	13-1	13-3	13-4	13-5	13-7
325.00	14-8	14-10	14-11	15-1	15-3	15-5	15-6	15-8	15-10	15-11
350.00	17-0	17-2	17-4	17-6	17-8	17-10	18-0	18-2	18-4	18-6
375.00	19-6	19-9	19-11	20-1	20-4	20-6	20-8	20-10	21-1	21-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-2	3-2	3-3	3-3	3-3	3-4	3-4	3-4	3-5	3-5
175.00	4-4	4-4	4-5	4-5	4-6	4-6	4-6	4-7	4-7	4-8
200.00	5-7	5-8	5-9	5-9	5-10	5-11	5-11	6-0	6-0	6-1
225.00	7-1	7-2	7-3	7-4	7-5	7-5	7-6	7-7	7-8	7-8
250.00	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6
275.00	10-7	10-9	10-10	10-11	11-0	11-2	11-3	11-4	11-5	11-6
300.00	12-8	12-9	12-11	13-0	13-2	13-3	13-4	13-6	13-7	13-9
325.00	14-10	15-0	15-2	15-3	15-5	15-7	15-8	15-10	16-0	16-1
350.00	17-3	17-5	17-7	17-9	17-11	18-1	18-3	18-4	18-6	18-8
375.00	19-9	20-0	20-2	20-4	20-7	20-9	20-11	21-1	21-3	21-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.21

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR #2 3-STRAND BARE COPPER CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION

840 LB TENSION ---------- 818.2

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

840 LB TENSION ---------- 818.7

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

840 LB TENSION ---------- 818.12

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

840 LB TENSION ---------- 818.17

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REFERENCE

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805; SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

#2 3-STRAND BARE COPPER TABLE OF CONTENTS

OH818.1

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.294	0.44	840	0.44	840*
25	0	0	0	0.203	0.31	818	0.31	821
30	0	0	0	0.203	0.33	779	0.32	787
40	0	0	0	0.203	0.36	702	0.35	721
50	0	0	0	0.203	0.40	628	0.39	655
60	0	0	0	0.203	0.46	556	0.43	591
70	0	0	0	0.203	0.52	489	0.48	528
80	0	0	0	0.203	0.60	426	0.54	469
90	0	0	0	0.203	0.68	371	0.61	414
100	0	0	0	0.203	0.79	323	0.70	364
110	0	0	0	0.203	0.89	284	0.79	321
120	0	0	0	0.203	1.01	252	0.89	284
130	0	0	0	0.203	1.12	226	1.00	254
167	0	0	0	0.203	1.52	167	1.40	182
212	0	0	0	0.203	1.94	131	1.82	139

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.294	1.75	840	1.75	840*
25	0	0	0	0.203	1.33	764	1.31	773
30	0	0	0	0.203	1.39	732	1.36	744
40	0	0	0	0.203	1.51	671	1.47	689
50	0	0	0	0.203	1.65	615	1.59	637
60	0	0	0	0.203	1.80	563	1.73	588
70	0	0	0	0.203	1.97	516	1.87	542
80	0	0	0	0.203	2.14	475	2.03	501
90	0	0	0	0.203	2.31	439	2.19	464
100	0	0	0	0.203	2.49	407	2.36	431
110	0	0	0	0.203	2.68	380	2.53	402
120	0	0	0	0.203	2.86	356	2.70	376
130	0	0	0	0.203	3.03	335	2.87	353
167	0	0	0	0.203	3.67	277	3.50	290
212	0	0	0	0.203	4.36	233	4.20	242

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

OH818.2

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.294	3.95	840	3.95	840*
25	0	0	0	0.203	3.23	707	3.18	719
30	0	0	0	0.203	3.34	684	3.28	697
40	0	0	0	0.203	3.56	642	3.48	657
50	0	0	0	0.203	3.79	603	3.69	619
60	0	0	0	0.203	4.02	568	3.91	585
70	0	0	0	0.203	4.26	537	4.13	554
80	0	0	0	0.203	4.50	508	4.35	525
90	0	0	0	0.203	4.73	483	4.58	499
100	0	0	0	0.203	4.97	460	4.81	475
110	0	0	0	0.203	5.20	439	5.03	454
120	0	0	0	0.203	5.43	421	5.26	435
130	0	0	0	0.203	5.66	404	5.48	417
167	0	0	0	0.203	6.47	354	6.28	364
212	0	0	0	0.203	7.38	310	7.19	318

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN GO95 LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

OH818.3

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5
100.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
125.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-3
150.00	0-8	0-9	0-10	0-10	1-0	1-1	1-3	1-5	1-7	1-9
175.00	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-11	2-2	2-5
200.00	1-2	1-3	1-5	1-7	1-9	1-11	2-2	2-5	2-9	3-2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-5	0-6
100.00	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-11
125.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-5
150.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-9	2-0
175.00	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-1	2-5	2-9
200.00	1-2	1-4	1-5	1-7	1-10	2-1	2-5	2-9	3-2	3-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

OH818.4

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8
125.00	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0
150.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
175.00	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-10	1-11
200.00	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-2	2-4	2-6
225.00	1-7	1-9	1-10	2-0	2-2	2-4	2-7	2-9	3-0	3-2
250.00	2-0	2-2	2-4	2-6	2-8	2-11	3-2	3-5	3-8	3-11

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8
125.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
150.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-6
175.00	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-1
200.00	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-8
225.00	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-11	3-2	3-5
250.00	2-0	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-11	4-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

OH818.5

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3
175.00	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
200.00	1-4	1-5	1-7	1-8	1-9	1-10	1-11	2-0	2-2	2-3
225.00	1-9	1-10	1-11	2-1	2-2	2-4	2-5	2-7	2-8	2-10
250.00	2-2	2-3	2-5	2-7	2-9	2-10	3-0	3-2	3-4	3-6
275.00	2-7	2-9	2-11	3-1	3-3	3-6	3-8	3-10	4-0	4-3
300.00	3-1	3-3	3-6	3-8	3-11	4-2	4-4	4-7	4-10	5-0
325.00	3-7	3-10	4-1	4-4	4-7	4-10	5-1	5-5	5-8	5-11
350.00	4-2	4-6	4-9	5-0	5-4	5-7	5-11	6-3	6-7	6-10
375.00	4-10	5-1	5-5	5-9	6-1	6-5	6-10	7-2	7-6	7-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4
175.00	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9
200.00	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-4
225.00	1-9	1-11	2-0	2-2	2-3	2-5	2-6	2-8	2-10	2-11
250.00	2-2	2-4	2-6	2-8	2-10	2-11	3-1	3-3	3-5	3-7
275.00	2-8	2-10	3-0	3-2	3-5	3-7	3-9	4-0	4-2	4-4
300.00	3-2	3-4	3-7	3-9	4-0	4-3	4-6	4-9	5-0	5-2
325.00	3-8	3-11	4-2	4-5	4-9	5-0	5-3	5-7	5-10	6-1
350.00	4-3	4-7	4-10	5-2	5-6	5-10	6-1	6-5	6-9	7-1
375.00	4-11	5-3	5-7	5-11	6-3	6-8	7-0	7-5	7-9	8-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

OH818.6

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.352	0.52	840	0.52	840*
20	0	0	0	0.203	0.25	1005	0.25	1005
30	0	0	0	0.203	0.27	939	0.27	939
40	0	0	0	0.203	0.29	872	0.29	872
50	0	0	0	0.203	0.32	799	0.32	805
60	0	0	0	0.203	0.35	723	0.34	738
70	0	0	0	0.203	0.39	648	0.38	672
80	0	0	0	0.203	0.44	575	0.42	607
90	0	0	0	0.203	0.50	506	0.47	545
100	0	0	0	0.203	0.57	442	0.52	484
110	0	0	0	0.203	0.66	385	0.59	428
120	0	0	0	0.203	0.76	335	0.67	377
130	0	0	0	0.203	0.87	293	0.76	332
167	0	0	0	0.203	1.28	198	1.16	220
212	0	0	0	0.203	1.73	146	1.62	157

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.352	2.10	840	2.10	840*
20	0	0	0	0.203	1.13	895	1.13	895
30	0	0	0	0.203	1.22	834	1.22	835
40	0	0	0	0.203	1.32	768	1.31	776
50	0	0	0	0.203	1.44	705	1.41	720
60	0	0	0	0.203	1.57	646	1.53	666
70	0	0	0	0.203	1.72	591	1.65	615
80	0	0	0	0.203	1.87	542	1.79	567
90	0	0	0	0.203	2.04	498	1.94	524
100	0	0	0	0.203	2.21	459	2.10	484
110	0	0	0	0.203	2.39	424	2.26	449
120	0	0	0	0.203	2.57	395	2.43	418
130	0	0	0	0.203	2.76	369	2.60	390
167	0	0	0	0.203	3.41	298	3.24	314
212	0	0	0	0.203	4.13	246	3.97	256

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

OH818.7

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.352	4.72	840	4.72	840*
20	0	0	0	0.203	3.05	750	3.01	758
30	0	0	0	0.203	3.26	701	3.20	713
40	0	0	0	0.203	3.48	657	3.40	672
50	0	0	0	0.203	3.70	617	3.61	633
60	0	0	0	0.203	3.93	581	3.82	598
70	0	0	0	0.203	4.17	548	4.04	565
80	0	0	0	0.203	4.41	519	4.27	535
90	0	0	0	0.203	4.64	492	4.49	509
100	0	0	0	0.203	4.88	468	4.72	484
110	0	0	0	0.203	5.12	447	4.95	462
120	0	0	0	0.203	5.35	428	5.18	442
130	0	0	0	0.203	5.58	410	5.40	424
167	0	0	0	0.203	6.39	358	6.20	369
212	0	0	0	0.203	7.31	313	7.12	321

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7
125.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11
150.00	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-1	1-2	1-4
175.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-10
200.00	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-1	2-4

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8
125.00	0-5	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-11	1-0
150.00	0-7	0-7	0-8	0-9	0-9	0-11	1-0	1-2	1-3	1-6
175.00	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-9	2-0
200.00	1-0	1-1	1-2	1-3	1-5	1-7	1-9	2-0	2-4	2-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

OH818.9

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
125.00	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11
150.00	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3
175.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9
200.00	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-1	2-3
225.00	1-5	1-6	1-8	1-9	1-11	2-1	2-3	2-5	2-8	2-10
250.00	1-9	1-11	2-1	2-2	2-5	2-7	2-10	3-0	3-3	3-6

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
125.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11
150.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
175.00	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-8	1-10
200.00	1-2	1-3	1-4	1-5	1-7	1-9	1-10	2-0	2-3	2-5
225.00	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-7	2-10	3-0
250.00	1-9	1-11	2-1	2-3	2-5	2-8	2-11	3-2	3-6	3-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3
175.00	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8
200.00	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2
225.00	1-8	1-10	1-11	2-0	2-2	2-3	2-5	2-6	2-8	2-9
250.00	2-1	2-3	2-4	2-6	2-8	2-10	3-0	3-1	3-3	3-5
275.00	2-6	2-8	2-10	3-0	3-3	3-5	3-7	3-9	4-0	4-2
300.00	3-0	3-2	3-5	3-7	3-10	4-1	4-3	4-6	4-9	4-11
325.00	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-7	5-10
350.00	4-1	4-4	4-8	4-11	5-2	5-6	5-10	6-1	6-5	6-9
375.00	4-9	5-0	5-4	5-8	6-0	6-4	6-8	7-0	7-5	7-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-3
175.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
200.00	1-4	1-5	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-3
225.00	1-9	1-10	1-11	2-1	2-3	2-4	2-6	2-7	2-9	2-11
250.00	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7
275.00	2-7	2-9	2-11	3-1	3-4	3-6	3-8	3-11	4-1	4-4
300.00	3-1	3-3	3-6	3-8	3-11	4-2	4-5	4-8	4-11	5-1
325.00	3-7	3-10	4-1	4-4	4-7	4-11	5-2	5-5	5-9	6-0
350.00	4-2	4-5	4-9	5-0	5-4	5-8	6-0	6-4	6-8	7-0
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

OH818.11

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.533	0.79	840	0.79	840*
20	0	0	0	0.203	0.27	938	0.27	938
30	0	0	0	0.203	0.29	871	0.29	871
40	0	0	0	0.203	0.32	799	0.32	805
50	0	0	0	0.203	0.35	722	0.34	738
60	0	0	0	0.203	0.39	647	0.38	672
70	0	0	0	0.203	0.44	574	0.42	607
80	0	0	0	0.203	0.50	505	0.47	544
90	0	0	0	0.203	0.57	442	0.52	484
100	0	0	0	0.203	0.66	384	0.59	428
110	0	0	0	0.203	0.76	335	0.67	377
120	0	0	0	0.203	0.87	293	0.77	332
130	0	0	0	0.203	0.98	259	0.87	293
167	0	0	0	0.203	1.39	183	1.26	201
212	0	0	0	0.203	1.83	139	1.71	149

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.533	3.18	840	3.18	840*
20	0	0	0	0.203	1.58	643	1.53	663
30	0	0	0	0.203	1.72	589	1.66	613
40	0	0	0	0.203	1.88	540	1.80	565
50	0	0	0	0.203	2.05	496	1.95	522
60	0	0	0	0.203	2.22	457	2.10	483
70	0	0	0	0.203	2.40	423	2.27	448
80	0	0	0	0.203	2.58	393	2.44	416
90	0	0	0	0.203	2.76	368	2.61	389
100	0	0	0	0.203	2.94	345	2.78	365
110	0	0	0	0.203	3.12	326	2.96	343
120	0	0	0	0.203	3.29	309	3.13	325
130	0	0	0	0.203	3.46	293	3.30	308
167	0	0	0	0.203	4.06	250	3.89	261
212	0	0	0	0.203	4.72	216	4.56	223

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

OH818.12

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.533	7.16	840	7.16	840*
20	0	0	0	0.203	5.14	445	4.98	459
30	0	0	0	0.203	5.37	425	5.20	440
40	0	0	0	0.203	5.60	408	5.43	422
50	0	0	0	0.203	5.83	392	5.65	405
60	0	0	0	0.203	6.05	378	5.86	390
70	0	0	0	0.203	6.27	365	6.08	376
80	0	0	0	0.203	6.48	353	6.29	364
90	0	0	0	0.203	6.69	342	6.50	352
100	0	0	0	0.203	6.89	332	6.70	341
110	0	0	0	0.203	7.09	323	6.91	331
120	0	0	0	0.203	7.29	314	7.10	322
130	0	0	0	0.203	7.49	306	7.30	314
167	0	0	0	0.203	8.17	280	7.99	287
212	0	0	0	0.203	8.95	256	8.78	261

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5
100.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
125.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1
150.00	0-7	0-8	0-9	0-9	0-10	0-11	1-1	1-2	1-4	1-6
175.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-10	2-1
200.00	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-1	2-4	2-8

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5
100.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
125.00	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-2
150.00	0-7	0-8	0-9	0-9	0-11	1-0	1-2	1-4	1-6	1-8
175.00	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-9	2-0	2-4
200.00	1-1	1-2	1-3	1-5	1-7	1-9	2-0	2-4	2-8	3-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

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STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

OH818.14

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9
125.00	0-7	0-8	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2
150.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8
175.00	1-2	1-3	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-3
200.00	1-6	1-8	1-10	1-11	2-1	2-3	2-5	2-7	2-9	2-11
225.00	1-11	2-1	2-3	2-6	2-8	2-10	3-1	3-4	3-6	3-9
250.00	2-5	2-7	2-10	3-0	3-3	3-7	3-10	4-1	4-4	4-7

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9
125.00	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3
150.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-9
175.00	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-1	2-3	2-5
200.00	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-1
225.00	2-0	2-2	2-5	2-7	2-10	3-0	3-3	3-6	3-9	3-11
250.00	2-6	2-8	2-11	3-2	3-6	3-9	4-0	4-4	4-7	4-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

OH818.15

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-4	1-4	1-5	1-6	1-6	1-7	1-7	1-8	1-9
175.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-3	2-4
200.00	2-3	2-4	2-5	2-6	2-7	2-8	2-10	2-11	3-0	3-1
225.00	2-10	2-11	3-1	3-2	3-4	3-5	3-6	3-8	3-9	3-11
250.00	3-5	3-7	3-9	3-11	4-1	4-3	4-4	4-6	4-8	4-10
275.00	4-2	4-4	4-7	4-9	4-11	5-1	5-3	5-6	5-8	5-10
300.00	5-0	5-2	5-5	5-8	5-10	6-1	6-3	6-6	6-8	6-11
325.00	5-10	6-1	6-4	6-8	6-11	7-2	7-5	7-8	7-10	8-1
350.00	6-9	7-1	7-5	7-8	8-0	8-3	8-7	8-10	9-2	9-5
375.00	7-9	8-2	8-6	8-10	9-2	9-6	9-10	10-2	10-6	10-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-4	1-5	1-5	1-6	1-7	1-7	1-8	1-9	1-9
175.00	1-9	1-10	1-11	2-0	2-1	2-2	2-2	2-3	2-4	2-5
200.00	2-3	2-5	2-6	2-7	2-8	2-9	2-11	3-0	3-1	3-2
225.00	2-11	3-0	3-2	3-3	3-5	3-6	3-8	3-9	3-11	4-0
250.00	3-7	3-9	3-11	4-1	4-2	4-4	4-6	4-8	4-9	4-11
275.00	4-4	4-6	4-8	4-11	5-1	5-3	5-5	5-7	5-9	6-0
300.00	5-2	5-4	5-7	5-10	6-1	6-3	6-6	6-8	6-11	7-1
325.00	6-0	6-4	6-7	6-10	7-1	7-4	7-7	7-10	8-1	8-4
350.00	7-0	7-4	7-8	7-11	8-3	8-6	8-10	9-1	9-5	9-8
375.00	8-0	8-5	8-9	9-1	9-5	9-10	10-2	10-5	10-9	11-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

OH818.16

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Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	0.864	1.29	840	1.29	840*
20	0	0	0	0.203	0.35	729	0.34	744
30	0	0	0	0.203	0.39	654	0.37	678
40	0	0	0	0.203	0.44	581	0.41	613
50	0	0	0	0.203	0.50	512	0.46	550
60	0	0	0	0.203	0.57	447	0.52	489
70	0	0	0	0.203	0.65	389	0.59	433
80	0	0	0	0.203	0.75	339	0.67	381
90	0	0	0	0.203	0.86	297	0.76	335
100	0	0	0	0.203	0.97	262	0.86	296
110	0	0	0	0.203	1.08	235	0.96	264
120	0	0	0	0.203	1.20	212	1.07	237
130	0	0	0	0.203	1.31	194	1.18	215
167	0	0	0	0.203	1.68	151	1.56	163
212	0	0	0	0.203	2.07	123	1.96	129

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	0.864	5.16	840	5.16	840*
20	0	0	0	0.203	3.58	284	3.41	298
30	0	0	0	0.203	3.74	272	3.57	284
40	0	0	0	0.203	3.90	261	3.73	272
50	0	0	0	0.203	4.06	251	3.89	261
60	0	0	0	0.203	4.21	242	4.04	251
70	0	0	0	0.203	4.36	233	4.19	242
80	0	0	0	0.203	4.50	226	4.34	234
90	0	0	0	0.203	4.64	219	4.48	227
100	0	0	0	0.203	4.78	213	4.62	220
110	0	0	0	0.203	4.92	207	4.76	214
120	0	0	0	0.203	5.05	201	4.90	208
130	0	0	0	0.203	5.18	196	5.03	202
167	0	0	0	0.203	5.64	181	5.49	185
212	0	0	0	0.203	6.16	166	6.02	169

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 17 OF 21

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

OH818.17

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	0.864	11.64	840	11.64	840*
20	0	0	0	0.203	10.11	227	9.94	231
30	0	0	0	0.203	10.26	224	10.09	227
40	0	0	0	0.203	10.41	220	10.24	224
50	0	0	0	0.203	10.55	217	10.39	221
60	0	0	0	0.203	10.70	215	10.53	218
70	0	0	0	0.203	10.84	212	10.68	215
80	0	0	0	0.203	10.98	209	10.82	212
90	0	0	0	0.203	11.12	206	10.96	209
100	0	0	0	0.203	11.26	204	11.10	207
110	0	0	0	0.203	11.40	202	11.24	204
120	0	0	0	0.203	11.53	199	11.37	202
130	0	0	0	0.203	11.67	197	11.51	200
167	0	0	0	0.203	12.15	189	12.00	192
212	0	0	0	0.203	12.71	181	12.57	183

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

OH818.18

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-6
100.00	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0
125.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6
150.00	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-8	1-11	2-2
175.00	1-1	1-2	1-3	1-5	1-7	1-10	2-0	2-4	2-7	2-11
200.00	1-4	1-6	1-8	1-10	2-1	2-4	2-8	3-0	3-5	3-10

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-7
100.00	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-1
125.00	0-7	0-7	0-8	0-9	0-11	1-0	1-2	1-4	1-6	1-8
150.00	0-9	0-10	1-0	1-1	1-3	1-6	1-8	1-11	2-2	2-5
175.00	1-1	1-2	1-4	1-6	1-9	2-0	2-4	2-7	3-0	3-4
200.00	1-5	1-7	1-9	2-0	2-3	2-7	3-0	3-5	3-10	4-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

OH818.19

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-1	1-2	1-2
125.00	1-4	1-5	1-6	1-6	1-7	1-8	1-8	1-9	1-10	1-10
150.00	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
175.00	2-7	2-9	2-10	3-0	3-1	3-3	3-4	3-5	3-6	3-8
200.00	3-5	3-7	3-9	3-11	4-1	4-2	4-4	4-6	4-7	4-9
225.00	4-4	4-6	4-9	4-11	5-1	5-4	5-6	5-8	5-10	6-0
250.00	5-4	5-7	5-10	6-1	6-4	6-7	6-9	7-0	7-3	7-5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-2	1-3
125.00	1-5	1-6	1-6	1-7	1-8	1-8	1-9	1-10	1-10	1-11
150.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
175.00	2-9	2-10	3-0	3-1	3-3	3-4	3-5	3-7	3-8	3-9
200.00	3-7	3-9	3-11	4-1	4-3	4-4	4-6	4-8	4-9	4-11
225.00	4-6	4-9	4-11	5-2	5-4	5-6	5-8	5-11	6-1	6-3
250.00	5-7	5-10	6-1	6-4	6-7	6-10	7-0	7-3	7-6	7-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-6	2-6	2-7	2-7	2-8	2-8	2-8	2-9	2-9	2-10
175.00	3-5	3-5	3-6	3-6	3-7	3-8	3-8	3-9	3-9	3-10
200.00	4-5	4-6	4-7	4-7	4-8	4-9	4-10	4-10	4-11	5-0
225.00	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4
250.00	6-11	7-0	7-1	7-3	7-4	7-5	7-6	7-7	7-8	7-10
275.00	8-4	8-6	8-7	8-9	8-10	9-0	9-1	9-2	9-4	9-5
300.00	9-11	10-1	10-3	10-5	10-6	10-8	10-10	11-0	11-1	11-3
325.00	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-10	13-0	13-2
350.00	13-6	13-9	13-11	14-2	14-4	14-7	14-9	14-11	15-1	15-4
375.00	15-7	15-9	16-0	16-3	16-6	16-8	16-11	17-2	17-4	17-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-6	2-7	2-7	2-8	2-8	2-8	2-9	2-9	2-10	2-10
175.00	3-5	3-6	3-6	3-7	3-8	3-8	3-9	3-9	3-10	3-10
200.00	4-6	4-7	4-7	4-8	4-9	4-10	4-11	4-11	5-0	5-1
225.00	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5
250.00	7-0	7-1	7-3	7-4	7-5	7-6	7-7	7-9	7-10	7-11
275.00	8-6	8-7	8-9	8-10	9-0	9-1	9-3	9-4	9-6	9-7
300.00	10-1	10-3	10-5	10-7	10-8	10-10	11-0	11-1	11-3	11-5
325.00	11-10	12-1	12-3	12-5	12-7	12-9	12-11	13-1	13-3	13-5
350.00	13-9	14-0	14-2	14-4	14-7	14-9	15-0	15-2	15-4	15-6
375.00	15-10	16-1	16-3	16-6	16-9	16-11	17-2	17-5	17-7	17-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

OH818.21

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 1/0 BARE COPPER CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION

1340 LB TENSION ---------- 819.2

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

1340 LB TENSION ---------- 819.10

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

1340 LB TENSION ---------- 819.18

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1340 LB TENSION ---------- 819.26

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REFERENCE

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805; SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.408	0.38	1340	0.38	1340*
25	0	0	0	0.326	0.31	1322	0.31	1324
30	0	0	0	0.326	0.32	1260	0.32	1271
40	0	0	0	0.326	0.36	1137	0.35	1165
50	0	0	0	0.326	0.40	1018	0.38	1060
60	0	0	0	0.326	0.45	904	0.43	957
70	0	0	0	0.326	0.51	795	0.48	857
80	0	0	0	0.326	0.59	694	0.53	762
90	0	0	0	0.326	0.67	604	0.61	673
100	0	0	0	0.326	0.77	527	0.69	593
110	0	0	0	0.326	0.88	462	0.78	523
120	0	0	0	0.326	0.99	410	0.88	463
130	0	0	0	0.326	1.11	368	0.99	413
167	0	0	0	0.326	1.51	271	1.38	295
212	0	0	0	0.326	1.92	212	1.81	225

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.408	1.52	1340	1.52	1340*
25	0	0	0	0.326	1.28	1276	1.27	1284
30	0	0	0	0.326	1.33	1224	1.32	1238
40	0	0	0	0.326	1.45	1124	1.42	1148
50	0	0	0	0.326	1.58	1030	1.54	1062
60	0	0	0	0.326	1.73	944	1.66	981
70	0	0	0	0.326	1.88	865	1.80	905
80	0	0	0	0.326	2.05	795	1.95	836
90	0	0	0	0.326	2.22	733	2.11	774
100	0	0	0	0.326	2.40	679	2.27	718
110	0	0	0	0.326	2.58	631	2.44	668
120	0	0	0	0.326	2.76	590	2.61	624
130	0	0	0	0.326	2.94	554	2.79	585
167	0	0	0	0.326	3.58	456	3.41	478
212	0	0	0	0.326	4.29	381	4.12	396

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.2

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.408	3.43	1340	3.43	1340*
25	0	0	0	0.326	2.99	1225	2.97	1236
30	0	0	0	0.326	3.10	1185	3.06	1200
40	0	0	0	0.326	3.31	1110	3.25	1129
50	0	0	0	0.326	3.53	1041	3.45	1064
60	0	0	0	0.326	3.75	978	3.66	1003
70	0	0	0	0.326	3.98	921	3.87	948
80	0	0	0	0.326	4.22	870	4.09	897
90	0	0	0	0.326	4.46	824	4.32	850
100	0	0	0	0.326	4.69	782	4.54	808
110	0	0	0	0.326	4.93	745	4.77	770
120	0	0	0	0.326	5.16	711	5.00	735
130	0	0	0	0.326	5.39	681	5.22	703
167	0	0	0	0.326	6.22	591	6.03	609
212	0	0	0	0.326	7.15	514	6.96	528

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.408	6.10	1340	6.10	1340*
25	0	0	0	0.326	5.51	1183	5.46	1195
30	0	0	0	0.326	5.65	1154	5.59	1167
40	0	0	0	0.326	5.94	1099	5.86	1114
50	0	0	0	0.326	6.22	1049	6.12	1066
60	0	0	0	0.326	6.51	1003	6.40	1021
70	0	0	0	0.326	6.80	960	6.67	979
80	0	0	0	0.326	7.08	922	6.94	940
90	0	0	0	0.326	7.37	886	7.22	904
100	0	0	0	0.326	7.65	854	7.49	872
110	0	0	0	0.326	7.93	824	7.76	841
120	0	0	0	0.326	8.21	796	8.03	813
130	0	0	0	0.326	8.48	770	8.30	787
167	0	0	0	0.326	9.45	691	9.26	705
212	0	0	0	0.326	10.57	619	10.37	630

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 3 OF 33

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.3

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.408	9.53	1340	9.53	1340*
25	0	0	0	0.326	8.84	1153	8.77	1163
30	0	0	0	0.326	9.01	1132	8.93	1143
40	0	0	0	0.326	9.34	1092	9.24	1104
50	0	0	0	0.326	9.68	1055	9.56	1067
60	0	0	0	0.326	10.01	1020	9.88	1033
70	0	0	0	0.326	10.33	988	10.20	1001
80	0	0	0	0.326	10.66	958	10.51	971
90	0	0	0	0.326	10.98	930	10.82	943
100	0	0	0	0.326	11.30	904	11.13	917
110	0	0	0	0.326	11.61	879	11.44	892
120	0	0	0	0.326	11.92	857	11.74	869
130	0	0	0	0.326	12.23	835	12.05	848
167	0	0	0	0.326	13.32	767	13.13	778
212	0	0	0	0.326	14.59	701	14.39	710

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5
100.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
125.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-3
150.00	0-8	0-9	0-9	0-10	1-0	1-1	1-2	1-4	1-7	1-9
175.00	0-11	1-0	1-1	1-2	1-4	1-5	1-8	1-10	2-1	2-5
200.00	1-2	1-3	1-5	1-6	1-8	1-11	2-2	2-5	2-9	3-1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-5	0-6
100.00	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-11
125.00	0-6	0-6	0-7	0-8	0-8	0-10	0-11	1-1	1-3	1-5
150.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-9	2-0
175.00	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-1	2-4	2-8
200.00	1-2	1-4	1-5	1-7	1-10	2-1	2-4	2-8	3-1	3-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7
125.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	0-11
150.00	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-4
175.00	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-9	1-10
200.00	1-3	1-4	1-5	1-6	1-8	1-10	1-11	2-1	2-3	2-5
225.00	1-7	1-8	1-10	1-11	2-1	2-3	2-6	2-8	2-11	3-1
250.00	1-11	2-1	2-3	2-5	2-7	2-10	3-1	3-4	3-7	3-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8
125.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11	1-0
150.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
175.00	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-8	1-10	2-0
200.00	1-3	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7
225.00	1-7	1-8	1-10	2-0	2-2	2-5	2-7	2-10	3-0	3-3
250.00	1-11	2-1	2-3	2-6	2-8	2-11	3-2	3-6	3-9	4-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.6

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-2
175.00	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7
200.00	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1
225.00	1-7	1-9	1-10	1-11	2-1	2-2	2-4	2-5	2-7	2-8
250.00	2-0	2-1	2-3	2-5	2-6	2-8	2-10	3-0	3-2	3-4
275.00	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-8	3-10	4-0
300.00	2-11	3-1	3-3	3-5	3-8	3-10	4-1	4-4	4-7	4-9
325.00	3-5	3-7	3-10	4-1	4-4	4-7	4-10	5-1	5-4	5-7
350.00	3-11	4-2	4-5	4-8	5-0	5-3	5-7	5-11	6-2	6-6
375.00	4-6	4-9	5-1	5-5	5-9	6-1	6-5	6-9	7-1	7-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3
175.00	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
200.00	1-3	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-1	2-2
225.00	1-8	1-9	1-10	2-0	2-1	2-3	2-4	2-6	2-8	2-9
250.00	2-0	2-2	2-4	2-5	2-7	2-9	2-11	3-1	3-3	3-5
275.00	2-5	2-7	2-9	3-0	3-2	3-4	3-7	3-9	3-11	4-2
300.00	2-11	3-1	3-4	3-6	3-9	4-0	4-3	4-5	4-8	4-11
325.00	3-5	3-8	3-11	4-2	4-5	4-8	4-11	5-3	5-6	5-9
350.00	3-11	4-3	4-6	4-10	5-1	5-5	5-9	6-1	6-5	6-9
375.00	4-6	4-10	5-2	5-6	5-10	6-3	6-7	7-0	7-4	7-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 7 OF 33

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.7

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-10	1-11
225.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
250.00	2-1	2-2	2-3	2-5	2-6	2-7	2-9	2-10	2-11	3-0
275.00	2-6	2-8	2-9	2-11	3-0	3-2	3-3	3-5	3-6	3-8
300.00	3-0	3-2	3-4	3-5	3-7	3-9	3-11	4-1	4-3	4-4
325.00	3-6	3-8	3-10	4-1	4-3	4-5	4-7	4-9	4-11	5-1
350.00	4-1	4-3	4-6	4-8	4-11	5-1	5-4	5-6	5-9	5-11
375.00	4-8	4-11	5-2	5-5	5-7	5-10	6-1	6-4	6-7	6-10
400.00	5-4	5-7	5-10	6-1	6-5	6-8	6-11	7-3	7-6	7-9
425.00	6-0	6-4	6-7	6-11	7-3	7-6	7-10	8-2	8-5	8-9
450.00	6-9	7-1	7-5	7-9	8-1	8-5	8-9	9-2	9-6	9-10
475.00	7-6	7-11	8-3	8-8	9-0	9-5	9-10	10-2	10-7	10-11
500.00	8-4	8-9	9-2	9-7	10-0	10-5	10-10	11-3	11-8	12-2

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11	2-0
225.00	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6
250.00	2-1	2-2	2-4	2-5	2-7	2-8	2-9	2-11	3-0	3-1
275.00	2-6	2-8	2-10	2-11	3-1	3-3	3-4	3-6	3-7	3-9
300.00	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2	4-4	4-6
325.00	3-7	3-9	3-11	4-1	4-4	4-6	4-8	4-10	5-1	5-3
350.00	4-1	4-4	4-7	4-9	5-0	5-2	5-5	5-8	5-10	6-1
375.00	4-9	5-0	5-3	5-6	5-9	6-0	6-3	6-6	6-9	7-0
400.00	5-5	5-8	5-11	6-3	6-6	6-10	7-1	7-4	7-8	7-11
425.00	6-1	6-5	6-8	7-0	7-4	7-8	8-0	8-4	8-8	8-11
450.00	6-10	7-2	7-6	7-11	8-3	8-7	9-0	9-4	9-8	10-0
475.00	7-7	8-0	8-4	8-9	9-2	9-7	10-0	10-5	10-9	11-2
500.00	8-5	8-10	9-3	9-9	10-2	10-7	11-1	11-6	11-11	12-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.8

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9	2-10
275.00	2-7	2-8	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-6
300.00	3-1	3-3	3-4	3-5	3-7	3-8	3-9	3-11	4-0	4-1
325.00	3-8	3-9	3-11	4-0	4-2	4-4	4-5	4-7	4-8	4-10
350.00	4-3	4-4	4-6	4-8	4-10	5-0	5-2	5-4	5-5	5-7
375.00	4-10	5-0	5-2	5-5	5-7	5-9	5-11	6-1	6-3	6-5
400.00	5-6	5-9	5-11	6-1	6-4	6-6	6-9	6-11	7-1	7-4
425.00	6-3	6-5	6-8	6-11	7-2	7-4	7-7	7-10	8-1	8-3
450.00	7-0	7-3	7-6	7-9	8-0	8-3	8-6	8-9	9-0	9-3
475.00	7-9	8-1	8-4	8-8	8-11	9-2	9-6	9-9	10-1	10-4
500.00	8-7	8-11	9-3	9-7	9-11	10-2	10-6	10-10	11-2	11-5
525.00	9-6	9-10	10-2	10-7	10-11	11-3	11-7	11-11	12-3	12-7
550.00	10-5	10-10	11-2	11-7	11-11	12-4	12-9	13-1	13-6	13-10
575.00	11-5	11-10	12-3	12-8	13-1	13-6	13-11	14-4	14-9	15-2
600.00	12-5	12-10	13-4	13-9	14-3	14-8	15-2	15-7	16-0	16-6
625.00	13-5	13-11	14-5	14-11	15-5	15-11	16-5	16-11	17-5	17-11

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
275.00	2-7	2-9	2-10	2-11	3-0	3-1	3-3	3-4	3-5	3-6
300.00	3-1	3-3	3-4	3-6	3-7	3-9	3-10	3-11	4-1	4-2
325.00	3-8	3-10	3-11	4-1	4-3	4-4	4-6	4-8	4-9	4-11
350.00	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-6	5-8
375.00	4-11	5-1	5-3	5-5	5-8	5-10	6-0	6-2	6-4	6-6
400.00	5-7	5-9	6-0	6-2	6-5	6-7	6-10	7-0	7-3	7-5
425.00	6-3	6-6	6-9	7-0	7-3	7-6	7-8	7-11	8-2	8-5
450.00	7-0	7-4	7-7	7-10	8-1	8-4	8-8	8-11	9-2	9-5
475.00	7-10	8-2	8-5	8-9	9-0	9-4	9-7	9-11	10-2	10-6
500.00	8-8	9-0	9-4	9-8	10-0	10-4	10-8	11-0	11-4	11-7
525.00	9-7	9-11	10-4	10-8	11-0	11-5	11-9	12-1	12-5	12-10
550.00	10-6	10-11	11-4	11-9	12-1	12-6	12-11	13-3	13-8	14-1
575.00	11-6	11-11	12-4	12-10	13-3	13-8	14-1	14-6	14-11	15-4
600.00	12-6	13-0	13-5	13-11	14-5	14-11	15-4	15-10	16-3	16-9
625.00	13-7	14-1	14-7	15-1	15-8	16-2	16-8	17-2	17-8	18-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.9

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Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.465	0.43	1340	0.43	1340*
20	0	0	0	0.326	0.25	1630	0.25	1630
30	0	0	0	0.326	0.27	1524	0.27	1524
40	0	0	0	0.326	0.29	1418	0.29	1418
50	0	0	0	0.326	0.31	1306	0.31	1311
60	0	0	0	0.326	0.34	1183	0.34	1205
70	0	0	0	0.326	0.38	1063	0.37	1099
80	0	0	0	0.326	0.43	946	0.41	995
90	0	0	0	0.326	0.49	835	0.46	894
100	0	0	0	0.326	0.56	731	0.51	797
110	0	0	0	0.326	0.64	637	0.58	706
120	0	0	0	0.326	0.74	554	0.65	622
130	0	0	0	0.326	0.84	485	0.74	548
167	0	0	0	0.326	1.26	325	1.13	361
212	0	0	0	0.326	1.71	238	1.59	256

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.465	1.73	1340	1.73	1340*
20	0	0	0	0.326	1.07	1525	1.07	1525
30	0	0	0	0.326	1.14	1428	1.14	1428
40	0	0	0	0.326	1.22	1331	1.22	1332
50	0	0	0	0.326	1.33	1225	1.32	1239
60	0	0	0	0.326	1.45	1125	1.42	1149
70	0	0	0	0.326	1.58	1031	1.53	1063
80	0	0	0	0.326	1.73	945	1.66	982
90	0	0	0	0.326	1.88	866	1.80	906
100	0	0	0	0.326	2.05	796	1.95	837
110	0	0	0	0.326	2.22	734	2.11	774
120	0	0	0	0.326	2.40	679	2.27	718
130	0	0	0	0.326	2.58	632	2.44	668
167	0	0	0	0.326	3.24	504	3.08	530
212	0	0	0	0.326	3.98	410	3.82	428

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 10 OF 33

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.10

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.465	3.90	1340	3.90	1340*
20	0	0	0	0.326	2.65	1385	2.65	1385
30	0	0	0	0.326	2.82	1301	2.81	1305
40	0	0	0	0.326	3.01	1217	2.99	1229
50	0	0	0	0.326	3.22	1139	3.17	1157
60	0	0	0	0.326	3.44	1068	3.37	1089
70	0	0	0	0.326	3.66	1002	3.57	1027
80	0	0	0	0.326	3.89	943	3.79	969
90	0	0	0	0.326	4.13	890	4.01	916
100	0	0	0	0.326	4.36	841	4.23	868
110	0	0	0	0.326	4.60	798	4.45	824
120	0	0	0	0.326	4.84	759	4.68	784
130	0	0	0	0.326	5.07	724	4.91	748
167	0	0	0	0.326	5.91	621	5.73	641
212	0	0	0	0.326	6.87	535	6.68	550

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.465	6.94	1340	6.94	1340*
20	0	0	0	0.326	5.23	1248	5.20	1255
30	0	0	0	0.326	5.50	1186	5.45	1197
40	0	0	0	0.326	5.78	1128	5.71	1142
50	0	0	0	0.326	6.07	1076	5.98	1092
60	0	0	0	0.326	6.35	1027	6.25	1044
70	0	0	0	0.326	6.64	983	6.52	1001
80	0	0	0	0.326	6.93	942	6.80	961
90	0	0	0	0.326	7.21	905	7.07	923
100	0	0	0	0.326	7.50	871	7.34	889
110	0	0	0	0.326	7.78	839	7.62	857
120	0	0	0	0.326	8.06	811	7.89	828
130	0	0	0	0.326	8.33	784	8.16	801
167	0	0	0	0.326	9.31	701	9.12	716
212	0	0	0	0.326	10.44	626	10.24	638

* Design Condition

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SHEET 11 OF 33

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.11

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.465	10.86	1340	10.86	1340*
20	0	0	0	0.326	8.87	1150	8.79	1160
30	0	0	0	0.326	9.20	1109	9.11	1120
40	0	0	0	0.326	9.53	1070	9.43	1082
50	0	0	0	0.326	9.86	1034	9.74	1047
60	0	0	0	0.326	10.19	1001	10.06	1014
70	0	0	0	0.326	10.52	970	10.38	984
80	0	0	0	0.326	10.84	942	10.69	955
90	0	0	0	0.326	11.16	915	11.00	928
100	0	0	0	0.326	11.48	890	11.31	903
110	0	0	0	0.326	11.79	866	11.61	879
120	0	0	0	0.326	12.09	844	11.92	857
130	0	0	0	0.326	12.40	824	12.22	836
167	0	0	0	0.326	13.49	757	13.29	769
212	0	0	0	0.326	14.74	693	14.54	703

* Design Condition

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DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
100.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7
125.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11
150.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-4
175.00	0-9	0-10	0-11	0-11	1-0	1-2	1-3	1-5	1-7	1-9
200.00	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-1	2-4

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8
125.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0
150.00	0-7	0-7	0-8	0-8	0-9	0-10	1-0	1-1	1-3	1-5
175.00	0-9	0-10	0-11	0-11	1-1	1-2	1-4	1-6	1-8	2-0
200.00	1-0	1-1	1-2	1-3	1-5	1-6	1-9	1-11	2-3	2-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

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STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.13

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6
125.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10
150.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2
175.00	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-7
200.00	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-10	1-11	2-1
225.00	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-3	2-6	2-8
250.00	1-8	1-9	1-11	2-1	2-3	2-5	2-7	2-10	3-1	3-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
125.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-10
150.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
175.00	0-10	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-8
200.00	1-1	1-2	1-3	1-4	1-5	1-7	1-9	1-11	2-1	2-3
225.00	1-4	1-5	1-7	1-8	1-10	2-0	2-2	2-5	2-7	2-10
250.00	1-8	1-9	1-11	2-1	2-3	2-6	2-8	2-11	3-2	3-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.14

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-8	0-9	0-10	0-10	0-11	0-1	1 1-	0 1-1	1-1
175.00	0-11	0-11	1-0	1-1	1-2	1-3	1-3	1-4	1-5	1-6
200.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0
225.00	1-6	1-7	1-8	1-9	1-11	2-0	2-2	2-3	2-5	2-6
250.00	1-10	1-11	2-1	2-2	2-4	2-6	2-8	2-9	2-11	3-1
275.00	2-3	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-7	3-9
300.00	2-8	2-10	3-0	3-2	3-4	3-7	3-9	4-0	4-3	4-5
325.00	3-1	3-4	3-6	3-9	3-11	4-2	4-5	4-8	5-0	5-3
350.00	3-7	3-10	4-1	4-4	4-7	4-10	5-2	5-5	5-9	6-1
375.00	4-2	4-5	4-8	4-11	5-3	5-7	5-11	6-3	6-7	7-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2
175.00	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
200.00	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-1
225.00	1-6	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-5	2-7
250.00	1-10	1-11	2-1	2-3	2-5	2-7	2-8	2-10	3-0	3-2
275.00	2-3	2-4	2-6	2-8	2-11	3-1	3-3	3-6	3-8	3-10
300.00	2-8	2-10	3-0	3-3	3-5	3-8	3-11	4-2	4-4	4-7
325.00	3-1	3-4	3-6	3-9	4-0	4-4	4-7	4-10	5-1	5-5
350.00	3-7	3-10	4-1	4-5	4-8	5-0	5-4	5-7	5-11	6-3
375.00	4-2	4-5	4-9	5-0	5-4	5-9	6-1	6-5	6-10	7-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-4	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11
225.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
250.00	2-0	2-2	2-3	2-4	2-5	2-7	2-8	2-9	2-10	3-0
275.00	2-5	2-7	2-8	2-10	2-11	3-1	3-3	3-4	3-6	3-7
300.00	2-11	3-1	3-3	3-4	3-6	3-8	3-10	4-0	4-2	4-3
325.00	3-5	3-7	3-9	3-11	4-1	4-4	4-6	4-8	4-10	5-0
350.00	4-0	4-2	4-4	4-7	4-9	5-0	5-2	5-5	5-7	5-10
375.00	4-7	4-9	5-0	5-3	5-6	5-9	6-0	6-3	6-5	6-8
400.00	5-2	5-5	5-9	6-0	6-3	6-6	6-10	7-1	7-4	7-7
425.00	5-10	6-2	6-5	6-9	7-1	7-4	7-8	8-0	8-3	8-7
450.00	6-7	6-11	7-3	7-7	7-11	8-3	8-7	8-11	9-4	9-8
475.00	7-4	7-8	8-1	8-5	8-10	9-2	9-7	10-0	10-4	10-9
500.00	8-1	8-6	8-11	9-4	9-9	10-2	10-7	11-1	11-6	11-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10	1-10	1-11
225.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-6
250.00	2-1	2-2	2-3	2-4	2-6	2-7	2-8	2-10	2-11	3-0
275.00	2-6	2-7	2-9	2-10	3-0	3-2	3-3	3-5	3-7	3-8
300.00	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-4
325.00	3-5	3-8	3-10	4-0	4-2	4-5	4-7	4-9	4-11	5-2
350.00	4-0	4-3	4-5	4-8	4-10	5-1	5-4	5-6	5-9	5-11
375.00	4-7	4-10	5-1	5-4	5-7	5-10	6-1	6-4	6-7	6-10
400.00	5-3	5-6	5-9	6-1	6-4	6-8	6-11	7-3	7-6	7-9
425.00	5-11	6-3	6-6	6-10	7-2	7-6	7-10	8-2	8-6	8-9
450.00	6-7	7-0	7-4	7-8	8-1	8-5	8-9	9-2	9-6	9-10
475.00	7-4	7-9	8-2	8-7	9-0	9-4	9-9	10-2	10-7	11-0
500.00	8-2	8-7	9-0	9-6	9-11	10-5	10-10	11-3	11-9	12-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.16

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
275.00	2-8	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-5	3-6
300.00	3-2	3-3	3-5	3-6	3-7	3-9	3-10	4-0	4-1	4-2
325.00	3-9	3-10	4-0	4-1	4-3	4-5	4-6	4-8	4-9	4-11
350.00	4-4	4-6	4-7	4-9	4-11	5-1	5-3	5-5	5-6	5-8
375.00	4-11	5-1	5-4	5-6	5-8	5-10	6-0	6-2	6-4	6-6
400.00	5-8	5-10	6-0	6-3	6-5	6-8	6-10	7-0	7-3	7-5
425.00	6-4	6-7	6-10	7-0	7-3	7-6	7-9	7-11	8-2	8-5
450.00	7-1	7-5	7-8	7-11	8-2	8-5	8-8	8-11	9-2	9-5
475.00	7-11	8-3	8-6	8-10	9-1	9-4	9-8	9-11	10-2	10-6
500.00	8-9	9-1	9-5	9-9	10-1	10-5	10-8	11-0	11-4	11-7
525.00	9-8	10-1	10-5	10-9	11-1	11-5	11-9	12-2	12-6	12-10
550.00	10-8	11-0	11-5	11-9	12-2	12-7	12-11	13-4	13-8	14-1
575.00	11-8	12-1	12-6	12-11	13-4	13-9	14-2	14-7	15-0	15-4
600.00	12-8	13-1	13-7	14-0	14-6	14-11	15-5	15-10	16-3	16-9
625.00	13-9	14-3	14-9	15-3	15-9	16-3	16-8	17-2	17-8	18-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-9	2-10	2-11
275.00	2-8	2-9	2-11	3-0	3-1	3-2	3-3	3-4	3-6	3-7
300.00	3-2	3-4	3-5	3-7	3-8	3-9	3-11	4-0	4-2	4-3
325.00	3-9	3-11	4-0	4-2	4-4	4-5	4-7	4-9	4-10	5-0
350.00	4-4	4-6	4-8	4-10	5-0	5-2	5-4	5-6	5-7	5-9
375.00	5-0	5-2	5-4	5-7	5-9	5-11	6-1	6-3	6-5	6-8
400.00	5-8	5-11	6-1	6-4	6-6	6-9	6-11	7-2	7-4	7-6
425.00	6-5	6-8	6-11	7-2	7-4	7-7	7-10	8-1	8-3	8-6
450.00	7-2	7-5	7-9	8-0	8-3	8-6	8-9	9-0	9-4	9-7
475.00	8-0	8-4	8-7	8-11	9-2	9-6	9-9	10-1	10-4	10-8
500.00	8-10	9-2	9-6	9-10	10-2	10-6	10-10	11-2	11-6	11-9
525.00	9-9	10-2	10-6	10-11	11-3	11-7	11-11	12-4	12-8	13-0
550.00	10-9	11-2	11-6	11-11	12-4	12-9	13-1	13-6	13-11	14-3
575.00	11-9	12-2	12-7	13-1	13-6	13-11	14-4	14-9	15-2	15-7
600.00	12-9	13-3	13-9	14-2	14-8	15-2	15-7	16-1	16-6	17-0
625.00	13-10	14-5	14-11	15-5	15-11	16-5	16-11	17-5	17-11	18-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.654	0.61	1340	0.61	1340*
20	0	0	0	0.326	0.26	1574	0.26	1574
30	0	0	0	0.326	0.28	1468	0.28	1468
40	0	0	0	0.326	0.30	1362	0.30	1362
50	0	0	0	0.326	0.33	1242	0.32	1255
60	0	0	0	0.326	0.36	1120	0.35	1149
70	0	0	0	0.326	0.41	1001	0.39	1044
80	0	0	0	0.326	0.46	887	0.43	942
90	0	0	0	0.326	0.52	779	0.48	843
100	0	0	0	0.326	0.60	680	0.54	748
110	0	0	0	0.326	0.69	592	0.62	661
120	0	0	0	0.326	0.79	516	0.70	582
130	0	0	0	0.326	0.90	454	0.79	513
167	0	0	0	0.326	1.31	310	1.19	343
212	0	0	0	0.326	1.76	232	1.64	248

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.654	2.44	1340	2.44	1340*
20	0	0	0	0.326	1.23	1320	1.23	1323
30	0	0	0	0.326	1.34	1215	1.33	1230
40	0	0	0	0.326	1.46	1115	1.43	1140
50	0	0	0	0.326	1.59	1022	1.55	1055
60	0	0	0	0.326	1.74	937	1.67	974
70	0	0	0	0.326	1.90	859	1.81	899
80	0	0	0	0.326	2.07	789	1.96	831
90	0	0	0	0.326	2.24	728	2.12	769
100	0	0	0	0.326	2.42	674	2.29	713
110	0	0	0	0.326	2.60	628	2.46	664
120	0	0	0	0.326	2.78	587	2.63	620
130	0	0	0	0.326	2.96	551	2.80	582
167	0	0	0	0.326	3.60	454	3.43	476
212	0	0	0	0.326	4.30	380	4.14	395

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

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Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.654	5.50	1340	5.50	1340*
20	0	0	0	0.326	3.60	1019	3.52	1043
30	0	0	0	0.326	3.83	959	3.73	984
40	0	0	0	0.326	4.06	904	3.95	930
50	0	0	0	0.326	4.30	854	4.17	881
60	0	0	0	0.326	4.53	809	4.39	836
70	0	0	0	0.326	4.77	769	4.62	795
80	0	0	0	0.326	5.01	733	4.85	758
90	0	0	0	0.326	5.24	701	5.07	724
100	0	0	0	0.326	5.47	671	5.30	693
110	0	0	0	0.326	5.70	645	5.52	665
120	0	0	0	0.326	5.92	621	5.74	640
130	0	0	0	0.326	6.14	598	5.95	617
167	0	0	0	0.326	6.91	532	6.73	546
212	0	0	0	0.326	7.79	472	7.60	484

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.654	9.79	1340	9.79	1340*
20	0	0	0	0.326	7.62	857	7.46	875
30	0	0	0	0.326	7.90	827	7.73	844
40	0	0	0	0.326	8.17	799	8.00	816
50	0	0	0	0.326	8.45	773	8.27	790
60	0	0	0	0.326	8.72	749	8.53	765
70	0	0	0	0.326	8.98	727	8.80	743
80	0	0	0	0.326	9.24	707	9.05	722
90	0	0	0	0.326	9.50	688	9.31	702
100	0	0	0	0.326	9.76	670	9.56	683
110	0	0	0	0.326	10.00	653	9.81	666
120	0	0	0	0.326	10.25	638	10.05	650
130	0	0	0	0.326	10.49	623	10.29	635
167	0	0	0	0.326	11.36	576	11.16	586
212	0	0	0	0.326	12.35	530	12.15	539

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.654	15.32	1340	15.32	1340*
20	0	0	0	0.326	13.06	782	12.86	794
30	0	0	0	0.326	13.35	765	13.15	777
40	0	0	0	0.326	13.63	749	13.44	760
50	0	0	0	0.326	13.92	734	13.72	745
60	0	0	0	0.326	14.20	720	14.00	730
70	0	0	0	0.326	14.47	706	14.27	716
80	0	0	0	0.326	14.75	693	14.54	703
90	0	0	0	0.326	15.02	681	14.81	690
100	0	0	0	0.326	15.28	669	15.08	678
110	0	0	0	0.326	15.54	658	15.34	667
120	0	0	0	0.326	15.80	647	15.60	656
130	0	0	0	0.326	16.06	637	15.85	645
167	0	0	0	0.326	16.98	603	16.77	610
212	0	0	0	0.326	18.05	567	17.84	574

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
100.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-7
125.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	1-0
150.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-5
175.00	0-10	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-11
200.00	1-0	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-2	2-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5
100.00	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-6	0-7	0-8
125.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1
150.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7
175.00	0-10	0-10	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-1
200.00	1-0	1-1	1-2	1-4	1-5	1-8	1-10	2-1	2-5	2-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 21 OF 33

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.21

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7
125.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0
150.00	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-5
175.00	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-9	1-11
200.00	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-1	2-3	2-5
225.00	1-7	1-8	1-10	1-11	2-1	2-4	2-6	2-8	2-11	3-1
250.00	1-11	2-1	2-3	2-5	2-7	2-10	3-1	3-4	3-7	3-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8
125.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11	1-0
150.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6
175.00	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-9	1-10	2-0
200.00	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-5	2-7
225.00	1-7	1-8	1-10	2-0	2-2	2-5	2-7	2-10	3-1	3-3
250.00	1-11	2-1	2-3	2-6	2-9	3-0	3-3	3-6	3-9	4-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 22 OF 33

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.22

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	0-11	1-0	1-0	1-1	1-2	1-3	1-3	1-4	1-5
175.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
200.00	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5
225.00	2-0	2-1	2-3	2-4	2-6	2-7	2-9	2-10	3-0	3-1
250.00	2-5	2-7	2-9	2-11	3-1	3-2	3-4	3-6	3-8	3-10
275.00	2-11	3-2	3-4	3-6	3-8	3-11	4-1	4-3	4-5	4-8
300.00	3-6	3-9	3-11	4-2	4-5	4-7	4-10	5-1	5-4	5-6
325.00	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-11	6-3	6-6
350.00	4-9	5-1	5-4	5-8	6-0	6-3	6-7	6-11	7-3	7-6
375.00	5-6	5-10	6-2	6-6	6-10	7-3	7-7	7-11	8-3	8-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5
175.00	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-11
200.00	1-7	1-8	1-10	1-11	2-0	2-1	2-3	2-4	2-5	2-6
225.00	2-0	2-2	2-3	2-5	2-7	2-8	2-10	2-11	3-1	3-2
250.00	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10	3-11
275.00	3-0	3-3	3-5	3-7	3-10	4-0	4-2	4-5	4-7	4-9
300.00	3-7	3-10	4-1	4-4	4-6	4-9	5-0	5-3	5-6	5-8
325.00	4-3	4-6	4-9	5-1	5-4	5-7	5-11	6-2	6-5	6-8
350.00	4-11	5-3	5-6	5-10	6-2	6-6	6-10	7-2	7-5	7-9
375.00	5-8	6-0	6-4	6-9	7-1	7-5	7-10	8-2	8-7	8-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-10	1-11	2-0	2-1	2-2	2-2	2-3	2-4	2-5	2-5
225.00	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1
250.00	2-11	3-0	3-2	3-3	3-4	3-5	3-6	3-8	3-9	3-10
275.00	3-6	3-8	3-9	3-11	4-0	4-2	4-3	4-5	4-6	4-8
300.00	4-2	4-4	4-6	4-8	4-10	4-11	5-1	5-3	5-5	5-6
325.00	4-11	5-1	5-3	5-6	5-8	5-10	6-0	6-2	6-4	6-6
350.00	5-9	5-11	6-2	6-4	6-6	6-9	6-11	7-2	7-4	7-6
375.00	6-7	6-10	7-0	7-3	7-6	7-9	7-11	8-2	8-5	8-7
400.00	7-6	7-9	8-0	8-3	8-6	8-10	9-1	9-4	9-7	9-10
425.00	8-5	8-9	9-0	9-4	9-8	9-11	10-3	10-6	10-10	11-1
450.00	9-5	9-9	10-2	10-6	10-10	11-2	11-6	11-9	12-1	12-5
475.00	10-6	10-11	11-3	11-8	12-0	12-5	12-9	13-2	13-6	13-10
500.00	11-8	12-1	12-6	12-11	13-4	13-9	14-2	14-7	14-11	15-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-11	2-0	2-1	2-1	2-2	2-3	2-4	2-4	2-5	2-6
225.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-2
250.00	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-9	3-10	3-11
275.00	3-7	3-9	3-10	4-0	4-1	4-3	4-4	4-6	4-7	4-9
300.00	4-3	4-5	4-7	4-9	4-11	5-1	5-2	5-4	5-6	5-8
325.00	5-0	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-5	6-7
350.00	5-10	6-1	6-3	6-6	6-8	6-11	7-1	7-3	7-6	7-8
375.00	6-8	6-11	7-2	7-5	7-8	7-11	8-1	8-4	8-7	8-10
400.00	7-7	7-11	8-2	8-5	8-9	9-0	9-3	9-6	9-9	10-0
425.00	8-7	8-11	9-3	9-6	9-10	10-2	10-5	10-9	11-0	11-4
450.00	9-8	10-0	10-4	10-8	11-0	11-4	11-8	12-0	12-4	12-8
475.00	10-9	11-2	11-6	11-11	12-4	12-8	13-0	13-5	13-9	14-1
500.00	11-11	12-4	12-9	13-2	13-8	14-0	14-5	14-10	15-3	15-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.24

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-3	3-3	3-4	3-5	3-6	3-7	3-8	3-8	3-9	3-10
275.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
300.00	4-8	4-9	4-10	4-11	5-0	5-2	5-3	5-4	5-5	5-6
325.00	5-5	5-7	5-8	5-10	5-11	6-0	6-2	6-3	6-4	6-6
350.00	6-4	6-5	6-7	6-9	6-10	7-0	7-1	7-3	7-5	7-6
375.00	7-3	7-5	7-7	7-9	7-10	8-0	8-2	8-4	8-6	8-7
400.00	8-3	8-5	8-7	8-9	8-11	9-2	9-4	9-6	9-8	9-10
425.00	9-4	9-6	9-8	9-11	10-1	10-4	10-6	10-8	10-11	11-1
450.00	10-5	10-8	10-11	11-1	11-4	11-7	11-9	12-0	12-3	12-5
475.00	11-7	11-10	12-2	12-5	12-8	12-11	13-1	13-4	13-7	13-10
500.00	12-10	13-2	13-5	13-9	14-0	14-3	14-7	14-10	15-1	15-4
525.00	14-2	14-6	14-10	15-2	15-5	15-9	16-0	16-4	16-7	16-11
550.00	15-7	15-11	16-3	16-7	16-11	17-3	17-7	17-11	18-3	18-7
575.00	17-0	17-5	17-9	18-2	18-6	18-11	19-3	19-7	19-11	20-4
600.00	18-6	18-11	19-4	19-9	20-2	20-7	20-11	21-4	21-9	22-1
625.00	20-1	20-7	21-0	21-5	21-11	22-4	22-9	23-2	23-7	24-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-3	3-4	3-5	3-6	3-7	3-7	3-8	3-9	3-10	3-11
275.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
300.00	4-8	4-10	4-11	5-0	5-1	5-2	5-4	5-5	5-6	5-7
325.00	5-6	5-8	5-9	5-11	6-0	6-1	6-3	6-4	6-5	6-7
350.00	6-5	6-6	6-8	6-10	6-11	7-1	7-3	7-4	7-6	7-7
375.00	7-4	7-6	7-8	7-10	8-0	8-2	8-3	8-5	8-7	8-9
400.00	8-4	8-6	8-9	8-11	9-1	9-3	9-5	9-7	9-9	9-11
425.00	9-5	9-8	9-10	10-1	10-3	10-5	10-8	10-10	11-0	11-3
450.00	10-7	10-10	11-0	11-3	11-6	11-9	11-11	12-2	12-4	12-7
475.00	11-9	12-1	12-4	12-7	12-10	13-1	13-4	13-7	13-9	14-0
500.00	13-1	13-4	13-8	13-11	14-2	14-6	14-9	15-0	15-3	15-7
525.00	14-5	14-9	15-0	15-4	15-8	16-0	16-3	16-7	16-10	17-2
550.00	15-10	16-2	16-6	16-10	17-2	17-6	17-10	18-2	18-6	18-10
575.00	17-3	17-8	18-0	18-5	18-9	19-2	19-6	19-10	20-3	20-7
600.00	18-10	19-3	19-8	20-1	20-5	20-10	21-3	21-8	22-0	22-5
625.00	20-5	20-10	21-4	21-9	22-2	22-8	23-1	23-6	23-11	24-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.25

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Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.02	0.95	1340	0.95	1340*
20	0	0	0	0.326	0.29	1414	0.29	1414
30	0	0	0	0.326	0.31	1302	0.31	1307
40	0	0	0	0.326	0.35	1179	0.34	1201
50	0	0	0	0.326	0.38	1059	0.37	1096
60	0	0	0	0.326	0.43	942	0.41	992
70	0	0	0	0.326	0.49	831	0.46	891
80	0	0	0	0.326	0.56	728	0.51	794
90	0	0	0	0.326	0.64	634	0.58	703
100	0	0	0	0.326	0.74	552	0.66	620
110	0	0	0	0.326	0.84	483	0.75	546
120	0	0	0	0.326	0.96	427	0.85	482
130	0	0	0	0.326	1.07	381	0.95	429
167	0	0	0	0.326	1.47	277	1.35	303
212	0	0	0	0.326	1.89	215	1.78	229

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.02	3.81	1340	3.81	1340*
20	0	0	0	0.326	2.08	786	1.97	827
30	0	0	0	0.326	2.25	725	2.13	765
40	0	0	0	0.326	2.43	672	2.30	710
50	0	0	0	0.326	2.61	625	2.47	661
60	0	0	0	0.326	2.79	585	2.64	618
70	0	0	0	0.326	2.97	550	2.81	580
80	0	0	0	0.326	3.15	519	2.98	547
90	0	0	0	0.326	3.32	492	3.15	517
100	0	0	0	0.326	3.49	468	3.32	491
110	0	0	0	0.326	3.65	447	3.49	468
120	0	0	0	0.326	3.82	428	3.65	447
130	0	0	0	0.326	3.97	411	3.81	429
167	0	0	0	0.326	4.53	361	4.36	374
212	0	0	0	0.326	5.14	318	4.98	328

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.26

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.02	8.59	1340	8.59	1340*
20	0	0	0	0.326	6.71	548	6.52	564
30	0	0	0	0.326	6.91	532	6.72	547
40	0	0	0	0.326	7.11	517	6.92	531
50	0	0	0	0.326	7.31	503	7.12	516
60	0	0	0	0.326	7.50	490	7.32	503
70	0	0	0	0.326	7.69	478	7.51	490
80	0	0	0	0.326	7.88	467	7.69	478
90	0	0	0	0.326	8.06	456	7.88	467
100	0	0	0	0.326	8.24	446	8.06	456
110	0	0	0	0.326	8.42	437	8.24	447
120	0	0	0	0.326	8.59	428	8.41	437
130	0	0	0	0.326	8.77	420	8.59	429
167	0	0	0	0.326	9.38	393	9.20	400
212	0	0	0	0.326	10.08	365	9.91	372

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.02	15.31	1340	15.31	1340*
20	0	0	0	0.326	13.43	488	13.24	495
30	0	0	0	0.326	13.63	481	13.43	488
40	0	0	0	0.326	13.82	474	13.63	481
50	0	0	0	0.326	14.02	467	13.82	474
60	0	0	0	0.326	14.21	461	14.02	467
70	0	0	0	0.326	14.40	455	14.21	461
80	0	0	0	0.326	14.58	449	14.39	455
90	0	0	0	0.326	14.77	444	14.58	450
100	0	0	0	0.326	14.95	438	14.76	444
110	0	0	0	0.326	15.13	433	14.95	439
120	0	0	0	0.326	15.31	428	15.13	434
130	0	0	0	0.326	15.49	423	15.30	429
167	0	0	0	0.326	16.13	407	15.95	411
212	0	0	0	0.326	16.88	389	16.70	393

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.27

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.02	24.00	1340	24.00	1340*
20	0	0	0	0.326	22.13	464	21.93	468
30	0	0	0	0.326	22.32	460	22.13	464
40	0	0	0	0.326	22.51	456	22.32	460
50	0	0	0	0.326	22.71	452	22.51	456
60	0	0	0	0.326	22.89	449	22.70	452
70	0	0	0	0.326	23.08	445	22.89	449
80	0	0	0	0.326	23.27	442	23.08	445
90	0	0	0	0.326	23.45	438	23.26	442
100	0	0	0	0.326	23.64	435	23.45	438
110	0	0	0	0.326	23.82	432	23.63	435
120	0	0	0	0.326	24.00	428	23.81	432
130	0	0	0	0.326	24.18	425	23.99	429
167	0	0	0	0.326	24.84	414	24.65	417
212	0	0	0	0.326	25.61	402	25.43	405

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 28 OF 33

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.28

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5
100.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
125.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-2
150.00	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-8
175.00	0-11	0-11	1-0	1-2	1-3	1-5	1-7	1-9	2-0	2-3
200.00	1-2	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-8	3-0

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
100.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10
125.00	0-5	0-6	0-6	0-7	0-8	0-9	0-11	1-0	1-2	1-4
150.00	0-8	0-8	0-9	0-10	1-0	1-1	1-3	1-5	1-8	1-11
175.00	0-11	1-0	1-1	1-2	1-4	1-6	1-9	2-0	2-3	2-7
200.00	1-2	1-3	1-5	1-6	1-9	2-0	2-3	2-7	2-11	3-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.29

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10
125.00	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-4
150.00	1-1	1-2	1-3	1-5	1-6	1-7	1-8	1-9	1-10	2-0
175.00	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-5	2-7	2-8
200.00	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6
225.00	2-6	2-8	2-11	3-1	3-4	3-7	3-9	4-0	4-2	4-5
250.00	3-1	3-4	3-7	3-10	4-1	4-5	4-8	4-11	5-2	5-5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11
125.00	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-4	1-5
150.00	1-2	1-3	1-4	1-6	1-7	1-8	1-9	1-10	2-0	2-1
175.00	1-7	1-9	1-10	2-0	2-2	2-3	2-5	2-6	2-8	2-10
200.00	2-1	2-3	2-5	2-7	2-9	3-0	3-2	3-4	3-6	3-8
225.00	2-8	2-10	3-1	3-4	3-6	3-9	4-0	4-2	4-5	4-8
250.00	3-3	3-6	3-10	4-1	4-4	4-8	4-11	5-2	5-5	5-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.30

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-8	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-0	2-1
175.00	2-3	2-3	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10
200.00	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
225.00	3-8	3-9	3-11	4-0	4-1	4-3	4-4	4-5	4-6	4-8
250.00	4-6	4-8	4-10	4-11	5-1	5-3	5-4	5-6	5-7	5-9
275.00	5-6	5-8	5-10	6-0	6-2	6-4	6-6	6-7	6-9	6-11
300.00	6-6	6-9	6-11	7-1	7-4	7-6	7-8	7-11	8-1	8-3
325.00	7-8	7-11	8-2	8-4	8-7	8-10	9-0	9-3	9-6	9-8
350.00	8-10	9-2	9-5	9-8	10-0	10-3	10-6	10-9	11-0	11-3
375.00	10-2	10-6	10-10	11-2	11-5	11-9	12-0	12-4	12-7	12-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-8	1-9	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-1
175.00	2-3	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10	2-10
200.00	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
225.00	3-9	3-11	4-0	4-1	4-3	4-4	4-5	4-6	4-8	4-9
250.00	4-8	4-10	4-11	5-1	5-2	5-4	5-6	5-7	5-9	5-10
275.00	5-8	5-10	6-0	6-2	6-4	6-6	6-7	6-9	6-11	7-1
300.00	6-8	6-11	7-1	7-4	7-6	7-8	7-11	8-1	8-3	8-5
325.00	7-10	8-1	8-4	8-7	8-10	9-0	9-3	9-6	9-8	9-11
350.00	9-2	9-5	9-8	9-11	10-3	10-6	10-9	11-0	11-3	11-6
375.00	10-6	10-10	11-1	11-5	11-9	12-0	12-4	12-7	12-11	13-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.31

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-4	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-8	3-9
225.00	4-2	4-3	4-4	4-4	4-5	4-6	4-7	4-7	4-8	4-9
250.00	5-2	5-3	5-4	5-5	5-6	5-7	5-7	5-8	5-9	5-10
275.00	6-3	6-4	6-5	6-6	6-7	6-9	6-10	6-11	7-0	7-1
300.00	7-5	7-7	7-8	7-9	7-11	8-0	8-1	8-2	8-4	8-5
325.00	8-9	8-10	9-0	9-1	9-3	9-4	9-6	9-7	9-9	9-10
350.00	10-2	10-3	10-5	10-7	10-9	10-10	11-0	11-2	11-4	11-5
375.00	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-10	13-0	13-2
400.00	13-3	13-5	13-8	13-10	14-0	14-2	14-5	14-7	14-9	14-11
425.00	14-11	15-2	15-5	15-7	15-10	16-0	16-3	16-6	16-8	16-11
450.00	16-9	17-0	17-3	17-6	17-9	18-0	18-3	18-6	18-8	18-11
475.00	18-8	18-11	19-3	19-6	19-9	20-1	20-4	20-7	20-10	21-1
500.00	20-8	21-0	21-4	21-7	21-11	22-3	22-6	22-10	23-1	23-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-8	3-9	3-9
225.00	4-3	4-4	4-4	4-5	4-6	4-7	4-7	4-8	4-9	4-9
250.00	5-3	5-4	5-5	5-6	5-7	5-7	5-8	5-9	5-10	5-11
275.00	6-4	6-5	6-6	6-7	6-9	6-10	6-11	7-0	7-1	7-2
300.00	7-7	7-8	7-9	7-11	8-0	8-1	8-2	8-4	8-5	8-6
325.00	8-10	9-0	9-1	9-3	9-4	9-6	9-7	9-9	9-10	10-0
350.00	10-3	10-5	10-7	10-9	10-10	11-0	11-2	11-4	11-5	11-7
375.00	11-10	12-0	12-2	12-4	12-6	12-8	12-10	13-0	13-2	13-4
400.00	13-5	13-8	13-10	14-0	14-3	14-5	14-7	14-9	14-11	15-2
425.00	15-2	15-5	15-7	15-10	16-1	16-3	16-6	16-8	16-11	17-1
450.00	17-0	17-3	17-6	17-9	18-0	18-3	18-6	18-8	18-11	19-2
475.00	18-11	19-3	19-6	19-9	20-1	20-4	20-7	20-10	21-1	21-4
500.00	21-0	21-4	21-7	21-11	22-3	22-6	22-10	23-1	23-5	23-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 32 OF 33

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.32

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-6	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-10	5-11
275.00	6-7	6-8	6-9	6-10	6-10	6-1	1 7-0	7-0	7-1	7-2
300.00	7-11	7-11	8-0	8-1	8-2	8-3	8-4	8-4	8-5	8-6
325.00	9-3	9-4	9-5	9-6	9-7	9-8	9-9	9-10	9-11	10-0
350.00	10-9	10-10	10-11	11-0	11-1	11-2	11-3	11-5	11-6	11-7
375.00	12-4	12-5	12-6	12-8	12-9	12-10	13-0	13-1	13-2	13-3
400.00	14-0	14-2	14-3	14-5	14-6	14-8	14-9 1	4-10	15-0	15-1
425.00	15-10	16-0	16-1	16-3	16-5	16-6	16-8	16-10	16-11	17-1
450.00	17-9	17-11	18-1	18-3	18-5	18-6	18-8	18-10	19-0	19-2
475.00	19-9	20-0	20-2	20-4	20-6	20-8	20-10	21-0	21-2	21-4
500.00	21-11	22-2	22-4	22-6	22-8	22-11	23-1	23-3	23-5	23-8
525.00	24-2	24-5	24-7	24-10	25-0	25-3	25-5	25-8	25-10	26-1
550.00	26-7	26-9	27-0	27-3	27-6	27-9	27-11	28-2	28-5	28-7
575.00	29-0	29-3	29-7	29-10	30-1	30-4	30-7	30-10	31-0	31-3
600.00	31-7	31-11	32-2	32-5	32-9	33-0	33-3	33-6	33-10	34-1
625.00	34-4	34-7	34-11	35-3	35-6	35-10	36-1	36-5	36-8	37-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-10	5-11	5-11
275.00	6-8	6-9	6-10	6-10	6-1	1 7-0	7-0	7-1	7-2	7-2
300.00	7-11	8-0	8-1	8-2	8-3	8-4	8-4	8-5	8-6	8-7
325.00	9-4	9-5	9-6	9-7	9-8	9-9	9-10	9-11	10-0	10-1
350.00	10-10	10-11	11-0	11-1	11-2	11-4	11-5	11-6	11-7	11-8
375.00	12-5	12-7	12-8	12-9	12-10	13-0	13-1	13-2	13-3	13-5
400.00	14-2	14-3	14-5	14-6	14-8	14-9	14-11	15-0	15-1	15-3
425.00	16-0	16-1	16-3	16-5	16-6	16-8	16-10	16-11	17-1	17-2
450.00	17-11	18-1	18-3	18-5	18-6	18-8	18-10	19-0	19-2	19-3
475.00	20-0	20-2	20-4	20-6	20-8	20-10	21-0	21-2	21-4	21-6
500.00	22-2	22-4	22-6	22-8	22-11	23-1	23-3	23-5	23-8	23-10
525.00	24-5	24-7	24-10	25-0	25-3	25-5	25-8	25-10	26-1	26-3
550.00	26-9	27-0	27-3	27-6	27-9	27-11	28-2	28-5	28-7	28-10
575.00	29-3	29-7	29-10	30-1	30-4	30-7	30-10	31-1	31-3	31-6
600.00	31-11	32-2	32-6	32-9	33-0	33-3	33-7	33-10	34-1	34-4
625.00	34-8	34-11	35-3	35-6	35-10	36-1	36-5	36-8	37-0	37-3

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SHEET 33 OF 33

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.33

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 4/0 BARE COPPER CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION

2424 LB TENSION ---------- 820.2

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

2424 LB TENSION ---------- 820.10

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

2424 LB TENSION ---------- 820.18

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

2424 LB TENSION ---------- 820.26

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REFERENCE

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805; SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.741	0.38	2424	0.38	2424*
25	0	0	0	0.654	0.34	2402	0.34	2405
30	0	0	0	0.654	0.36	2280	0.36	2298
40	0	0	0	0.654	0.40	2041	0.39	2088
50	0	0	0	0.654	0.45	1811	0.43	1883
60	0	0	0	0.654	0.51	1592	0.49	1684
70	0	0	0	0.654	0.59	1391	0.55	1495
80	0	0	0	0.654	0.68	1211	0.62	1320
90	0	0	0	0.654	0.77	1055	0.70	1163
100	0	0	0	0.654	0.88	926	0.80	1025
110	0	0	0	0.654	1.00	821	0.90	909
120	0	0	0	0.654	1.11	737	1.01	813
130	0	0	0	0.654	1.22	670	1.12	733
167	0	0	0	0.654	1.61	509	1.50	545
212	0	0	0	0.654	2.01	408	1.91	428

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.741	1.53	2424	1.53	2424*
25	0	0	0	0.654	1.39	2350	1.39	2358
30	0	0	0	0.654	1.45	2251	1.44	2269
40	0	0	0	0.654	1.59	2063	1.56	2099
50	0	0	0	0.654	1.73	1890	1.69	1938
60	0	0	0	0.654	1.89	1733	1.83	1789
70	0	0	0	0.654	2.05	1593	1.98	1653
80	0	0	0	0.654	2.23	1469	2.14	1530
90	0	0	0	0.654	2.41	1360	2.30	1420
100	0	0	0	0.654	2.59	1265	2.47	1323
110	0	0	0	0.654	2.77	1183	2.65	1236
120	0	0	0	0.654	2.95	1111	2.82	1161
130	0	0	0	0.654	3.12	1048	2.99	1094
167	0	0	0	0.654	3.75	874	3.61	907
212	0	0	0	0.654	4.44	739	4.30	762

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.2

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.741	3.44	2424	3.44	2424*
25	0	0	0	0.654	3.21	2296	3.19	2306
30	0	0	0	0.654	3.31	2222	3.29	2238
40	0	0	0	0.654	3.53	2084	3.49	2109
50	0	0	0	0.654	3.76	1958	3.70	1989
60	0	0	0	0.654	3.99	1844	3.92	1879
70	0	0	0	0.654	4.23	1742	4.14	1779
80	0	0	0	0.654	4.46	1649	4.36	1687
90	0	0	0	0.654	4.70	1566	4.59	1604
100	0	0	0	0.654	4.94	1492	4.82	1529
110	0	0	0	0.654	5.17	1425	5.04	1461
120	0	0	0	0.654	5.40	1364	5.27	1398
130	0	0	0	0.654	5.63	1309	5.49	1342
167	0	0	0	0.654	6.44	1145	6.29	1172
212	0	0	0	0.654	7.35	1003	7.20	1024

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.741	6.12	2424	6.12	2424*
25	0	0	0	0.654	5.81	2253	5.78	2264
30	0	0	0	0.654	5.95	2199	5.92	2213
40	0	0	0	0.654	6.24	2099	6.19	2117
50	0	0	0	0.654	6.52	2007	6.46	2028
60	0	0	0	0.654	6.81	1922	6.73	1945
70	0	0	0	0.654	7.10	1845	7.01	1869
80	0	0	0	0.654	7.38	1774	7.28	1799
90	0	0	0	0.654	7.67	1709	7.55	1734
100	0	0	0	0.654	7.94	1649	7.82	1674
110	0	0	0	0.654	8.22	1594	8.09	1619
120	0	0	0	0.654	8.49	1543	8.36	1567
130	0	0	0	0.654	8.76	1496	8.62	1520
167	0	0	0	0.654	9.72	1349	9.57	1370
212	0	0	0	0.654	10.82	1213	10.66	1231

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 3 OF 33

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.3

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.741	9.56	2424	9.56	2424*
25	0	0	0	0.654	9.21	2223	9.17	2233
30	0	0	0	0.654	9.37	2184	9.33	2195
40	0	0	0	0.654	9.70	2109	9.64	2123
50	0	0	0	0.654	10.03	2040	9.96	2055
60	0	0	0	0.654	10.36	1976	10.28	1992
70	0	0	0	0.654	10.68	1916	10.59	1933
80	0	0	0	0.654	11.00	1861	10.90	1878
90	0	0	0	0.654	11.32	1809	11.21	1827
100	0	0	0	0.654	11.64	1760	11.52	1778
110	0	0	0	0.654	11.94	1715	11.82	1733
120	0	0	0	0.654	12.25	1672	12.12	1690
130	0	0	0	0.654	12.55	1632	12.42	1650
167	0	0	0	0.654	13.64	1503	13.49	1520
212	0	0	0	0.654	14.88	1378	14.72	1393

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 2	0- 2	0- 3	0- 3	0- 3	0- 4	0- 4	0- 5	0- 5	0- 6
100.00	0- 4	0- 4	0- 5	0- 5	0- 6	0- 7	0- 7	0- 8	0-10	0-11
125.00	0- 6	0- 7	0- 7	0- 8	0- 9	0-10	1- 0	1- 1	1- 3	1- 5
150.00	0- 9	0-10	0-11	1- 0	1- 1	1- 3	1- 5	1- 7	1-10	2- 0
175.00	1- 0	1- 1	1- 2	1- 4	1- 6	1- 8	1-11	2- 2	2- 5	2- 9
200.00	1- 4	1- 5	1- 7	1- 9	1-11	2- 2	2- 6	2-10	3- 2	3- 7

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 2	0- 2	0- 3	0- 3	0- 3	0- 4	0- 5	0- 5	0- 6	0- 7
100.00	0- 4	0- 4	0- 5	0- 5	0- 6	0- 7	0- 8	0- 9	0-11	1- 0
125.00	0- 6	0- 7	0- 8	0- 8	0-10	0-11	1- 1	1- 3	1- 5	1- 7
150.00	0- 9	0-10	0-11	1- 0	1- 2	1- 4	1- 6	1- 9	2- 0	2- 3
175.00	1- 0	1- 1	1- 3	1- 5	1- 7	1-10	2- 1	2- 4	2- 8	3- 1
200.00	1- 4	1- 5	1- 7	1-10	2- 1	2- 4	2- 8	3- 1	3- 6	4- 0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 5 OF 33

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.5

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 4	0- 4	0- 5	0- 5	0- 5	0- 6	0- 6	0- 7	0- 7	0- 8
125.00	0- 6	0- 7	0- 7	0- 8	0- 9	0- 9	0-10	0-11	1- 0	1- 0
150.00	0- 9	0-10	0-11	0-11	1- 0	1- 1	1- 2	1- 4	1- 5	1- 6
175.00	1- 0	1- 1	1- 2	1- 4	1- 5	1- 6	1- 8	1- 9	1-11	2- 0
200.00	1- 4	1- 5	1- 7	1- 8	1-10	2- 0	2- 2	2- 4	2- 6	2- 8
225.00	1- 8	1-10	2- 0	2- 2	2- 4	2- 6	2- 8	2-11	3- 2	3- 4
250.00	2- 1	2- 3	2- 5	2- 8	2-10	3- 1	3- 4	3- 7	3-10	4- 2

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 4	0- 4	0- 5	0- 5	0- 6	0- 6	0- 7	0- 7	0- 8	0- 8
125.00	0- 6	0- 7	0- 7	0- 8	0- 9	0-10	0-10	0-11	1- 0	1- 1
150.00	0- 9	0-10	0-11	1- 0	1- 1	1- 2	1- 3	1- 4	1- 5	1- 7
175.00	1- 0	1- 1	1- 3	1- 4	1- 5	1- 7	1- 8	1-10	2- 0	2- 1
200.00	1- 4	1- 5	1- 7	1- 9	1-11	2- 1	2- 3	2- 5	2- 7	2- 9
225.00	1- 8	1-10	2- 0	2- 2	2- 5	2- 7	2-10	3- 1	3- 3	3- 6
250.00	2- 1	2- 3	2- 6	2- 8	2-11	3- 3	3- 6	3- 9	4- 1	4- 4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.6

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0- 9	0-10	0-10	0-11	1- 0	1- 0	1- 1	1- 2	1- 2	1- 3
175.00	1- 1	1- 1	1- 2	1- 3	1- 4	1- 5	1- 6	1- 7	1- 8	1- 9
200.00	1- 5	1- 6	1- 7	1- 8	1- 9	1-10	1-11	2- 0	2- 2	2- 3
225.00	1- 9	1-10	2- 0	2- 1	2- 2	2- 4	2- 5	2- 7	2- 9	2-10
250.00	2- 2	2- 3	2- 5	2- 7	2- 9	2-10	3- 0	3- 2	3- 4	3- 6
275.00	2- 7	2- 9	2-11	3- 1	3- 4	3- 6	3- 8	3-10	4- 1	4- 3
300.00	3- 1	3- 3	3- 6	3- 8	3-11	4- 2	4- 4	4- 7	4-10	5- 1
325.00	3- 8	3-10	4- 1	4- 4	4- 7	4-10	5- 1	5- 5	5- 8	5-11
350.00	4- 3	4- 6	4- 9	5- 0	5- 4	5- 8	5-11	6- 3	6- 7	6-10
375.00	4-10	5- 2	5- 5	5- 9	6- 1	6- 6	6-10	7- 2	7- 6	7-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0- 9	0-10	0-11	0-11	1- 0	1- 1	1- 1	1- 2	1- 3	1- 4
175.00	1- 1	1- 2	1- 2	1- 3	1- 4	1- 5	1- 6	1- 7	1- 8	1- 9
200.00	1- 5	1- 6	1- 7	1- 8	1- 9	1-11	2- 0	2- 1	2- 2	2- 4
225.00	1- 9	1-10	2- 0	2- 1	2- 3	2- 5	2- 6	2- 8	2- 9	2-11
250.00	2- 2	2- 4	2- 5	2- 7	2- 9	2-11	3- 1	3- 3	3- 5	3- 7
275.00	2- 7	2- 9	3- 0	3- 2	3- 4	3- 7	3- 9	3-11	4- 2	4- 4
300.00	3- 1	3- 4	3- 6	3- 9	4- 0	4- 3	4- 6	4- 8	4-11	5- 2
325.00	3- 8	3-11	4- 2	4- 5	4- 8	5- 0	5- 3	5- 6	5-10	6- 1
350.00	4- 3	4- 6	4-10	5- 1	5- 5	5- 9	6- 1	6- 5	6- 9	7- 0
375.00	4-10	5- 2	5- 6	5-11	6- 3	6- 7	7- 0	7- 4	7- 9	8- 1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.7

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1- 5	1- 6	1- 7	1- 7	1- 8	1- 9	1-10	1-11	1-11	2- 0
225.00	1- 9	1-10	1-11	2- 1	2- 2	2- 3	2- 4	2- 5	2- 6	2- 7
250.00	2- 2	2- 4	2- 5	2- 6	2- 8	2- 9	2-10	2-11	3- 1	3- 2
275.00	2- 8	2-10	2-11	3- 1	3- 2	3- 4	3- 5	3- 7	3- 8	3-10
300.00	3- 2	3- 4	3- 6	3- 8	3- 9	3-11	4- 1	4- 3	4- 5	4- 7
325.00	3- 9	3-11	4- 1	4- 3	4- 5	4- 7	4-10	5- 0	5- 2	5- 4
350.00	4- 4	4- 6	4- 9	4-11	5- 2	5- 4	5- 7	5- 9	6- 0	6- 2
375.00	5- 0	5- 2	5- 5	5- 8	5-11	6- 2	6- 5	6- 8	6-11	7- 1
400.00	5- 8	5-11	6- 2	6- 5	6- 9	7- 0	7- 3	7- 7	7-10	8- 1
425.00	6- 5	6- 8	7- 0	7- 3	7- 7	7-11	8- 3	8- 6	8-10	9- 2
450.00	7- 2	7- 6	7-10	8- 2	8- 6	8-10	9- 3	9- 7	9-11	10- 3
475.00	8- 0	8- 4	8- 9	9- 1	9- 6	9-11	10- 3	10- 8	11- 0	11- 5
500.00	8-10	9- 3	9- 8	10- 1	10- 6	10-11	11- 5	11-10	12- 3	12- 8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1- 5	1- 6	1- 7	1- 8	1- 8	1- 9	1-10	1-11	2- 0	2- 1
225.00	1-10	1-11	2- 0	2- 1	2- 2	2- 3	2- 4	2- 5	2- 6	2- 7
250.00	2- 3	2- 4	2- 5	2- 7	2- 8	2- 9	2-11	3- 0	3- 1	3- 3
275.00	2- 8	2-10	2-11	3- 1	3- 3	3- 4	3- 6	3- 7	3- 9	3-11
300.00	3- 2	3- 4	3- 6	3- 8	3-10	4- 0	4- 2	4- 4	4- 6	4- 7
325.00	3- 9	3-11	4- 1	4- 4	4- 6	4- 8	4-10	5- 1	5- 3	5- 5
350.00	4- 4	4- 7	4- 9	5- 0	5- 3	5- 5	5- 8	5-10	6- 1	6- 4
375.00	5- 0	5- 3	5- 6	5- 9	6- 0	6- 3	6- 6	6- 9	7- 0	7- 3
400.00	5- 8	5-11	6- 3	6- 6	6-10	7- 1	7- 5	7- 8	7-11	8- 3
425.00	6- 5	6- 9	7- 1	7- 4	7- 8	8- 0	8- 4	8- 8	9- 0	9- 3
450.00	7- 2	7- 6	7-11	8- 3	8- 7	9- 0	9- 4	9- 8	10- 1	10- 5
475.00	8- 0	8- 5	8-10	9- 2	9- 7	10- 0	10- 5	10-10	11- 2	11- 7
500.00	8-10	9- 4	9- 9	10- 2	10- 8	11- 1	11- 6	12- 0	12- 5	12-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.8

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2- 3	2- 4	2- 5	2- 6	2- 7	2- 8	2- 9	2-10	2-11	2-11
275.00	2- 9	2-10	2-11	3- 0	3- 1	3- 2	3- 4	3- 5	3- 6	3- 7
300.00	3- 3	3- 4	3- 6	3- 7	3- 8	3-10	3-11	4- 0	4- 2	4- 3
325.00	3-10	3-11	4- 1	4- 2	4- 4	4- 6	4- 7	4- 9	4-10	5- 0
350.00	4- 5	4- 7	4- 9	4-11	5- 0	5- 2	5- 4	5- 6	5- 8	5- 9
375.00	5- 1	5- 3	5- 5	5- 7	5- 9	5-11	6- 2	6- 4	6- 6	6- 8
400.00	5- 9	6- 0	6- 2	6- 4	6- 7	6- 9	7- 0	7- 2	7- 4	7- 7
425.00	6- 6	6- 9	7- 0	7- 2	7- 5	7- 8	7-11	8- 1	8- 4	8- 6
450.00	7- 4	7- 7	7-10	8- 1	8- 4	8- 7	8-10	9- 1	9- 4	9- 7
475.00	8- 2	8- 5	8- 8	9- 0	9- 3	9- 7	9-10	10- 1	10- 5	10- 8
500.00	9- 0	9- 4	9- 8	10- 0	10- 3	10- 7	10-11	11- 3	11- 6	11-10
525.00	9-11	10- 3	10- 8	11- 0	11- 4	11- 8	12- 0	12- 4	12- 8	13- 0
550.00	10-11	11- 3	11- 8	12- 1	12- 5	12-10	13- 2	13- 7	13-11	14- 4
575.00	11-11	12- 4	12- 9	13- 2	13- 7	14- 0	14- 5	14-10	15- 3	15- 8
600.00	13- 0	13- 5	13-11	14- 4	14-10	15- 3	15- 8	16- 2	16- 7	17- 0
625.00	14- 1	14- 7	15- 1	15- 7	16- 1	16- 7	17- 0	17- 6	18- 0	18- 6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2- 3	2- 4	2- 5	2- 6	2- 7	2- 8	2- 9	2-10	2-11	3- 0
275.00	2- 9	2-10	2-11	3- 0	3- 2	3- 3	3- 4	3- 5	3- 6	3- 7
300.00	3- 3	3- 4	3- 6	3- 7	3- 9	3-10	4- 0	4- 1	4- 2	4- 4
325.00	3-10	4- 0	4- 1	4- 3	4- 5	4- 6	4- 8	4- 9	4-11	5- 1
350.00	4- 5	4- 7	4- 9	4-11	5- 1	5- 3	5- 5	5- 7	5- 8	5-10
375.00	5- 1	5- 3	5- 5	5- 8	5-10	6- 0	6- 2	6- 4	6- 7	6- 9
400.00	5- 9	6- 0	6- 3	6- 5	6- 8	6-10	7- 0	7- 3	7- 5	7- 8
425.00	6- 6	6- 9	7- 0	7- 3	7- 6	7- 9	7-11	8- 2	8- 5	8- 8
450.00	7- 4	7- 7	7-10	8- 2	8- 5	8- 8	8-11	9- 2	9- 5	9- 8
475.00	8- 2	8- 5	8- 9	9- 1	9- 4	9- 8	9-11	10- 3	10- 6	10- 9
500.00	9- 0	9- 4	9- 8	10- 0	10- 4	10- 8	11- 0	11- 4	11- 8	11-11
525.00	10- 0	10- 4	10- 8	11- 1	11- 5	11- 9	12- 2	12- 6	12-10	13- 2
550.00	10-11	11- 4	11- 9	12- 2	12- 6	12-11	13- 4	13- 8	14- 1	14- 5
575.00	11-11	12- 5	12-10	13- 3	13- 8	14- 2	14- 7	15- 0	15- 5	15-10
600.00	13- 0	13- 6	14- 0	14- 5	14-11	15- 5	15-10	16- 4	16- 9	17- 2
625.00	14- 2	14- 8	15- 2	15- 8	16- 2	16- 8	17- 2	17- 8	18- 2	18- 8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.9

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Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.805	0.42	2424	0.42	2424*
20	0	0	0	0.654	0.27	3029	0.27	3029
30	0	0	0	0.654	0.29	2816	0.29	2816
40	0	0	0	0.654	0.31	2602	0.31	2602
50	0	0	0	0.654	0.34	2383	0.34	2389
60	0	0	0	0.654	0.38	2141	0.38	2177
70	0	0	0	0.654	0.43	1907	0.42	1969
80	0	0	0	0.654	0.49	1683	0.46	1767
90	0	0	0	0.654	0.55	1474	0.52	1574
100	0	0	0	0.654	0.64	1284	0.59	1393
110	0	0	0	0.654	0.73	1118	0.67	1227
120	0	0	0	0.654	0.84	978	0.76	1081
130	0	0	0	0.654	0.95	863	0.86	956
167	0	0	0	0.654	1.36	601	1.25	653
212	0	0	0	0.654	1.80	455	1.70	481

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.805	1.66	2424	1.66	2424*
20	0	0	0	0.654	1.14	2864	1.14	2864
30	0	0	0	0.654	1.22	2672	1.22	2672
40	0	0	0	0.654	1.32	2485	1.32	2485
50	0	0	0	0.654	1.43	2290	1.42	2304
60	0	0	0	0.654	1.56	2099	1.53	2132
70	0	0	0	0.654	1.70	1923	1.66	1969
80	0	0	0	0.654	1.86	1763	1.80	1818
90	0	0	0	0.654	2.02	1619	1.95	1679
100	0	0	0	0.654	2.19	1492	2.11	1553
110	0	0	0	0.654	2.37	1380	2.27	1441
120	0	0	0	0.654	2.55	1283	2.44	1341
130	0	0	0	0.654	2.73	1198	2.61	1253
167	0	0	0	0.654	3.38	968	3.25	1008
212	0	0	0	0.654	4.11	797	3.97	825

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.805	3.74	2424	3.74	2424*
20	0	0	0	0.654	2.77	2653	2.77	2653
30	0	0	0	0.654	2.95	2498	2.95	2498
40	0	0	0	0.654	3.14	2345	3.13	2352
50	0	0	0	0.654	3.35	2196	3.32	2215
60	0	0	0	0.654	3.57	2060	3.53	2087
70	0	0	0	0.654	3.80	1937	3.74	1969
80	0	0	0	0.654	4.03	1825	3.96	1861
90	0	0	0	0.654	4.27	1725	4.18	1762
100	0	0	0	0.654	4.51	1634	4.40	1672
110	0	0	0	0.654	4.74	1553	4.63	1590
120	0	0	0	0.654	4.98	1479	4.86	1516
130	0	0	0	0.654	5.21	1413	5.08	1449
167	0	0	0	0.654	6.05	1219	5.90	1249
212	0	0	0	0.654	6.99	1055	6.84	1078

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.805	6.65	2424	6.65	2424*
20	0	0	0	0.654	5.32	2462	5.32	2462
30	0	0	0	0.654	5.59	2343	5.57	2349
40	0	0	0	0.654	5.87	2231	5.84	2243
50	0	0	0	0.654	6.15	2128	6.11	2144
60	0	0	0	0.654	6.44	2033	6.38	2053
70	0	0	0	0.654	6.73	1946	6.65	1969
80	0	0	0	0.654	7.01	1867	6.92	1891
90	0	0	0	0.654	7.30	1794	7.20	1819
100	0	0	0	0.654	7.58	1727	7.47	1753
110	0	0	0	0.654	7.86	1666	7.74	1691
120	0	0	0	0.654	8.14	1610	8.01	1635
130	0	0	0	0.654	8.41	1557	8.28	1582
167	0	0	0	0.654	9.39	1396	9.24	1418
212	0	0	0	0.654	10.51	1248	10.35	1267

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

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DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.11

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.805	10.40	2424	10.40	2424*
20	0	0	0	0.654	8.83	2316	8.81	2322
30	0	0	0	0.654	9.17	2232	9.13	2241
40	0	0	0	0.654	9.50	2154	9.45	2166
50	0	0	0	0.654	9.83	2082	9.77	2096
60	0	0	0	0.654	10.16	2015	10.08	2030
70	0	0	0	0.654	10.49	1953	10.40	1969
80	0	0	0	0.654	10.81	1894	10.71	1911
90	0	0	0	0.654	11.13	1840	11.02	1858
100	0	0	0	0.654	11.44	1790	11.33	1807
110	0	0	0	0.654	11.76	1742	11.64	1760
120	0	0	0	0.654	12.06	1698	11.94	1716
130	0	0	0	0.654	12.37	1656	12.24	1674
167	0	0	0	0.654	13.46	1523	13.31	1539
212	0	0	0	0.654	14.72	1394	14.56	1408

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 2	0- 2	0- 2	0- 2	0- 3	0- 3	0- 3	0- 4	0- 4	0- 4
100.00	0- 3	0- 3	0- 4	0- 4	0- 5	0- 5	0- 6	0- 6	0- 7	0- 8
125.00	0- 5	0- 5	0- 6	0- 6	0- 7	0- 8	0- 9	0-10	0-11	1- 0
150.00	0- 7	0- 8	0- 8	0- 9	0-10	0-11	1- 0	1- 2	1- 4	1- 6
175.00	0-10	0-11	1- 0	1- 1	1- 2	1- 3	1- 5	1- 7	1-10	2- 0
200.00	1- 1	1- 2	1- 3	1- 4	1- 6	1- 8	1-10	2- 1	2- 4	2- 8

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 2	0- 2	0- 2	0- 2	0- 3	0- 3	0- 3	0- 4	0- 4	0- 5
100.00	0- 3	0- 3	0- 4	0- 4	0- 5	0- 5	0- 6	0- 7	0- 8	0- 9
125.00	0- 5	0- 5	0- 6	0- 6	0- 7	0- 8	0- 9	0-10	1- 0	1- 2
150.00	0- 7	0- 8	0- 8	0- 9	0-10	1- 0	1- 1	1- 3	1- 5	1- 8
175.00	0-10	0-11	1- 0	1- 1	1- 2	1- 4	1- 6	1- 8	1-11	2- 3
200.00	1- 1	1- 2	1- 3	1- 4	1- 6	1- 9	1-11	2- 3	2- 7	2-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.13

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 3	0- 4	0- 4	0- 4	0- 5	0- 5	0- 5	0- 6	0- 6	0- 7
125.00	0- 5	0- 6	0- 6	0- 7	0- 7	0- 8	0- 8	0- 9	0-10	0-11
150.00	0- 8	0- 8	0- 9	0-10	0-10	0-11	1- 0	1- 1	1- 2	1- 3
175.00	0-10	0-11	1- 0	1- 1	1- 2	1- 3	1- 5	1- 6	1- 7	1- 9
200.00	1- 2	1- 3	1- 4	1- 5	1- 6	1- 8	1-10	1-11	2- 1	2- 3
225.00	1- 5	1- 7	1- 8	1-10	1-11	2- 1	2- 3	2- 6	2- 8	2-10
250.00	1- 9	1-11	2- 1	2- 3	2- 5	2- 7	2-10	3- 1	3- 3	3- 7

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 3	0- 4	0- 4	0- 4	0- 5	0- 5	0- 6	0- 6	0- 7	0- 7
125.00	0- 5	0- 6	0- 6	0- 7	0- 7	0- 8	0- 9	0- 9	0-10	0-11
150.00	0- 8	0- 8	0- 9	0-10	0-11	0-11	1- 1	1- 2	1- 3	1- 4
175.00	0-10	0-11	1- 0	1- 1	1- 2	1- 4	1- 5	1- 7	1- 8	1-10
200.00	1- 2	1- 3	1- 4	1- 5	1- 7	1- 8	1-10	2- 0	2- 2	2- 4
225.00	1- 5	1- 7	1- 8	1-10	2- 0	2- 2	2- 4	2- 7	2- 9	3- 0
250.00	1- 9	1-11	2- 1	2- 3	2- 5	2- 8	2-11	3- 2	3- 5	3- 8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.14

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0- 8	0- 9	0- 9	0-10	0-11	0-11	1- 0	1- 1	1- 1	1- 2
175.00	0-11	1- 0	1- 1	1- 2	1- 2	1- 3	1- 4	1- 5	1- 6	1- 7
200.00	1- 3	1- 4	1- 5	1- 6	1- 7	1- 8	1- 9	1-10	1-11	2- 1
225.00	1- 7	1- 8	1- 9	1-10	2- 0	2- 1	2- 3	2- 4	2- 6	2- 7
250.00	1-11	2- 1	2- 2	2- 4	2- 5	2- 7	2- 9	2-11	3- 1	3- 3
275.00	2- 4	2- 6	2- 8	2-10	3- 0	3- 2	3- 4	3- 6	3- 8	3-11
300.00	2- 9	2-11	3- 2	3- 4	3- 6	3- 9	3-11	4- 2	4- 5	4- 8
325.00	3- 3	3- 5	3- 8	3-11	4- 2	4- 5	4- 8	4-11	5- 2	5- 5
350.00	3- 9	4- 0	4- 3	4- 6	4-10	5- 1	5- 5	5- 8	6- 0	6- 4
375.00	4- 4	4- 7	4-11	5- 2	5- 6	5-10	6- 2	6- 6	6-11	7- 3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0- 8	0- 9	0- 9	0-10	0-11	0-11	1- 0	1- 1	1- 2	1- 2
175.00	0-11	1- 0	1- 1	1- 2	1- 3	1- 4	1- 4	1- 5	1- 6	1- 7
200.00	1- 3	1- 4	1- 5	1- 6	1- 7	1- 8	1-10	1-11	2- 0	2- 1
225.00	1- 7	1- 8	1- 9	1-11	2- 0	2- 2	2- 3	2- 5	2- 6	2- 8
250.00	1-11	2- 1	2- 2	2- 4	2- 6	2- 8	2-10	3- 0	3- 2	3- 4
275.00	2- 4	2- 6	2- 8	2-10	3- 0	3- 2	3- 5	3- 7	3- 9	4- 0
300.00	2- 9	2-11	3- 2	3- 4	3- 7	3-10	4- 0	4- 3	4- 6	4- 9
325.00	3- 3	3- 5	3- 8	3-11	4- 2	4- 6	4- 9	5- 0	5- 3	5- 7
350.00	3- 9	4- 0	4- 3	4- 7	4-10	5- 2	5- 6	5-10	6- 2	6- 5
375.00	4- 4	4- 7	4-11	5- 3	5- 7	5-11	6- 4	6- 8	7- 1	7- 5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.15

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1- 4	1- 5	1- 6	1- 6	1- 7	1- 8	1- 9	1-10	1-10	1-11
225.00	1- 8	1- 9	1-10	1-11	2- 0	2- 1	2- 2	2- 3	2- 4	2- 5
250.00	2- 1	2- 2	2- 3	2- 5	2- 6	2- 7	2- 8	2-10	2-11	3- 0
275.00	2- 6	2- 8	2- 9	2-11	3- 0	3- 2	3- 3	3- 5	3- 6	3- 8
300.00	3- 0	3- 2	3- 3	3- 5	3- 7	3- 9	3-11	4- 1	4- 2	4- 4
325.00	3- 6	3- 8	3-10	4- 0	4- 3	4- 5	4- 7	4- 9	4-11	5- 1
350.00	4- 1	4- 3	4- 6	4- 8	4-11	5- 1	5- 4	5- 6	5- 9	5-11
375.00	4- 8	4-11	5- 2	5- 4	5- 7	5-10	6- 1	6- 4	6- 7	6-10
400.00	5- 4	5- 7	5-10	6- 1	6- 5	6- 8	6-11	7- 2	7- 6	7- 9
425.00	6- 0	6- 4	6- 7	6-11	7- 2	7- 6	7-10	8- 2	8- 5	8- 9
450.00	6- 9	7- 1	7- 5	7- 9	8- 1	8- 5	8- 9	9- 1	9- 6	9-10
475.00	7- 6	7-10	8- 3	8- 7	9- 0	9- 5	9- 9	10- 2	10- 6	10-11
500.00	8- 4	8- 9	9- 1	9- 6	10- 0	10- 5	10-10	11- 3	11- 8	12- 1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1- 4	1- 5	1- 6	1- 6	1- 7	1- 8	1- 9	1-10	1-11	2- 0
225.00	1- 8	1- 9	1-10	1-11	2- 0	2- 2	2- 3	2- 4	2- 5	2- 6
250.00	2- 1	2- 2	2- 4	2- 5	2- 6	2- 8	2- 9	2-10	3- 0	3- 1
275.00	2- 6	2- 8	2- 9	2-11	3- 1	3- 2	3- 4	3- 5	3- 7	3- 9
300.00	3- 0	3- 2	3- 4	3- 6	3- 7	3- 9	3-11	4- 1	4- 3	4- 5
325.00	3- 6	3- 8	3-10	4- 1	4- 3	4- 5	4- 8	4-10	5- 0	5- 2
350.00	4- 1	4- 3	4- 6	4- 9	4-11	5- 2	5- 4	5- 7	5-10	6- 0
375.00	4- 8	4-11	5- 2	5- 5	5- 8	5-11	6- 2	6- 5	6- 8	6-11
400.00	5- 4	5- 7	5-10	6- 2	6- 5	6- 9	7- 0	7- 4	7- 7	7-10
425.00	6- 0	6- 4	6- 8	6-11	7- 3	7- 7	7-11	8- 3	8- 7	8-11
450.00	6- 9	7- 1	7- 5	7- 9	8- 2	8- 6	8-11	9- 3	9- 7	9-11
475.00	7- 6	7-11	8- 3	8- 8	9- 1	9- 6	9-11	10- 4	10- 8	11- 1
500.00	8- 4	8- 9	9- 2	9- 7	10- 1	10- 6	11- 0	11- 5	11-10	12- 3

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STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2- 2	2- 3	2- 4	2- 5	2- 6	2- 7	2- 8	2- 9	2-10	2-11
275.00	2- 8	2- 9	2-10	2-11	3- 1	3- 2	3- 3	3- 4	3- 5	3- 6
300.00	3- 2	3- 3	3- 5	3- 6	3- 8	3- 9	3-10	4- 0	4- 1	4- 2
325.00	3- 9	3-10	4- 0	4- 2	4- 3	4- 5	4- 6	4- 8	4- 9	4-11
350.00	4- 4	4- 6	4- 8	4- 9	4-11	5- 1	5- 3	5- 5	5- 7	5- 8
375.00	4-11	5- 2	5- 4	5- 6	5- 8	5-10	6- 0	6- 2	6- 4	6- 7
400.00	5- 8	5-10	6- 1	6- 3	6- 5	6- 8	6-10	7- 1	7- 3	7- 5
425.00	6- 4	6- 7	6-10	7- 1	7- 3	7- 6	7- 9	8- 0	8- 2	8- 5
450.00	7- 2	7- 5	7- 8	7-11	8- 2	8- 5	8- 8	8-11	9- 2	9- 5
475.00	7-11	8- 3	8- 6	8-10	9- 1	9- 5	9- 8	9-11	10- 3	10- 6
500.00	8-10	9- 2	9- 5	9- 9	10- 1	10- 5	10- 9	11- 0	11- 4	11- 8
525.00	9- 9	10- 1	10- 5	10- 9	11- 1	11- 6	11-10	12- 2	12- 6	12-10
550.00	10- 8	11- 1	11- 5	11-10	12- 2	12- 7	13- 0	13- 4	13- 9	14- 1
575.00	11- 8	12- 1	12- 6	12-11	13- 4	13- 9	14- 2	14- 7	15- 0	15- 5
600.00	12- 8	13- 2	13- 7	14- 1	14- 6	15- 0	15- 5	15-11	16- 4	16- 9
625.00	13- 9	14- 3	14- 9	15- 3	15- 9	16- 3	16- 9	17- 3	17- 9	18- 2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2- 2	2- 3	2- 4	2- 5	2- 6	2- 7	2- 8	2- 9	2-10	2-11
275.00	2- 8	2- 9	2-10	3- 0	3- 1	3- 2	3- 3	3- 4	3- 6	3- 7
300.00	3- 2	3- 4	3- 5	3- 6	3- 8	3- 9	3-11	4- 0	4- 1	4- 3
325.00	3- 9	3-10	4- 0	4- 2	4- 3	4- 5	4- 7	4- 8	4-10	5- 0
350.00	4- 4	4- 6	4- 8	4-10	5- 0	5- 2	5- 4	5- 5	5- 7	5- 9
375.00	5- 0	5- 2	5- 4	5- 6	5- 9	5-11	6- 1	6- 3	6- 5	6- 7
400.00	5- 8	5-10	6- 1	6- 3	6- 6	6- 9	6-11	7- 1	7- 4	7- 6
425.00	6- 5	6- 7	6-10	7- 1	7- 4	7- 7	7-10	8- 0	8- 3	8- 6
450.00	7- 2	7- 5	7- 8	8- 0	8- 3	8- 6	8- 9	9- 0	9- 3	9- 6
475.00	8- 0	8- 3	8- 7	8-10	9- 2	9- 6	9- 9	10- 1	10- 4	10- 7
500.00	8-10	9- 2	9- 6	9-10	10- 2	10- 6	10-10	11- 2	11- 5	11- 9
525.00	9- 9	10- 1	10- 6	10-10	11- 2	11- 7	11-11	12- 3	12- 7	13- 0
550.00	10- 8	11- 1	11- 6	11-11	12- 4	12- 8	13- 1	13- 6	13-10	14- 3
575.00	11- 8	12- 2	12- 7	13- 0	13- 5	13-10	14- 4	14- 9	15- 2	15- 7
600.00	12- 9	13- 2	13- 8	14- 2	14- 8	15- 1	15- 7	16- 0	16- 6	16-11
625.00	13-10	14- 4	14-10	15- 4	15-11	16- 5	16-11	17- 5	17-11	18- 5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.17

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Span = 100 ft

Design Condition Cond.	Ice	Wind	K	Weight	Final Sag	Final Tension	Initial Sag	Initial Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.037	0.53	2424	0.53	2424*
20	0	0	0	0.654	0.28	2960	0.28	2960
30	0	0	0	0.654	0.30	2747	0.30	2747
40	0	0	0	0.654	0.32	2533	0.32	2533
50	0	0	0	0.654	0.35	2305	0.35	2320
60	0	0	0	0.654	0.40	2065	0.39	2110
70	0	0	0	0.654	0.45	1834	0.43	1903
80	0	0	0	0.654	0.51	1614	0.48	1704
90	0	0	0	0.654	0.58	1411	0.54	1514
100	0	0	0	0.654	0.67	1228	0.61	1338
110	0	0	0	0.654	0.76	1070	0.69	1178
120	0	0	0	0.654	0.87	938	0.79	1039
130	0	0	0	0.654	0.98	831	0.89	920
167	0	0	0	0.654	1.39	587	1.29	636
212	0	0	0	0.654	1.83	448	1.73	473

* Design Condition

Span = 200 ft

Design Condition Cond.	Ice	Wind	K	Weight	Final Sag	Final Tension	Initial Sag	Initial Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.037	2.14	2424	2.14	2424*
20	0	0	0	0.654	1.25	2617	1.25	2617
30	0	0	0	0.654	1.34	2432	1.34	2432
40	0	0	0	0.654	1.46	2233	1.45	2253
50	0	0	0	0.654	1.60	2047	1.57	2084
60	0	0	0	0.654	1.74	1875	1.70	1924
70	0	0	0	0.654	1.90	1720	1.84	1776
80	0	0	0	0.654	2.07	1581	1.99	1641
90	0	0	0	0.654	2.24	1458	2.15	1520
100	0	0	0	0.654	2.42	1351	2.32	1411
110	0	0	0	0.654	2.60	1257	2.49	1314
120	0	0	0	0.654	2.78	1176	2.66	1229
130	0	0	0	0.654	2.96	1105	2.84	1154
167	0	0	0	0.654	3.60	910	3.46	946
212	0	0	0	0.654	4.30	761	4.16	786

* Design Condition

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SHEET 18 OF 33

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.18

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.037	4.82	2424	4.82	2424*
20	0	0	0	0.654	3.33	2210	3.31	2227
30	0	0	0	0.654	3.55	2073	3.51	2098
40	0	0	0	0.654	3.78	1948	3.72	1980
50	0	0	0	0.654	4.01	1835	3.94	1871
60	0	0	0	0.654	4.25	1734	4.16	1771
70	0	0	0	0.654	4.48	1642	4.38	1680
80	0	0	0	0.654	4.72	1560	4.61	1598
90	0	0	0	0.654	4.96	1486	4.84	1523
100	0	0	0	0.654	5.19	1419	5.06	1455
110	0	0	0	0.654	5.42	1359	5.29	1393
120	0	0	0	0.654	5.65	1304	5.51	1337
130	0	0	0	0.654	5.87	1255	5.73	1286
167	0	0	0	0.654	6.67	1106	6.51	1132
212	0	0	0	0.654	7.56	976	7.41	996

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.037	8.57	2424	8.57	2424*
20	0	0	0	0.654	6.78	1932	6.70	1955
30	0	0	0	0.654	7.06	1854	6.97	1878
40	0	0	0	0.654	7.35	1782	7.25	1807
50	0	0	0	0.654	7.63	1716	7.52	1742
60	0	0	0	0.654	7.91	1656	7.79	1681
70	0	0	0	0.654	8.19	1600	8.06	1625
80	0	0	0	0.654	8.46	1549	8.33	1573
90	0	0	0	0.654	8.73	1501	8.59	1525
100	0	0	0	0.654	9.00	1457	8.85	1480
110	0	0	0	0.654	9.26	1416	9.11	1439
120	0	0	0	0.654	9.51	1378	9.37	1400
130	0	0	0	0.654	9.77	1342	9.62	1363
167	0	0	0	0.654	10.67	1229	10.51	1248
212	0	0	0	0.654	11.71	1121	11.54	1137

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 19 OF 33

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.19

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.037	13.41	2424	13.41	2424*
20	0	0	0	0.654	11.48	1784	11.36	1802
30	0	0	0	0.654	11.79	1737	11.67	1755
40	0	0	0	0.654	12.10	1693	11.97	1711
50	0	0	0	0.654	12.40	1652	12.27	1670
60	0	0	0	0.654	12.70	1613	12.56	1631
70	0	0	0	0.654	13.00	1577	12.86	1594
80	0	0	0	0.654	13.29	1542	13.14	1559
90	0	0	0	0.654	13.58	1510	13.43	1526
100	0	0	0	0.654	13.86	1479	13.71	1495
110	0	0	0	0.654	14.14	1450	13.99	1466
120	0	0	0	0.654	14.42	1422	14.26	1437
130	0	0	0	0.654	14.69	1396	14.54	1411
167	0	0	0	0.654	15.67	1309	15.51	1323
212	0	0	0	0.654	16.81	1221	16.64	1233

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 20 OF 33

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.20

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 2	0- 2	0- 2	0- 2	0- 3	0- 3	0- 3	0- 4	0- 4	0- 5
100.00	0- 3	0- 4	0- 4	0- 4	0- 5	0- 5	0- 6	0- 6	0- 7	0- 8
125.00	0- 5	0- 6	0- 6	0- 7	0- 7	0- 8	0- 9	0-10	0-11	1- 1
150.00	0- 7	0- 8	0- 9	0-10	0-10	1- 0	1- 1	1- 3	1- 5	1- 7
175.00	0-10	0-11	1- 0	1- 1	1- 2	1- 4	1- 6	1- 8	1-10	2- 2
200.00	1- 1	1- 2	1- 3	1- 5	1- 7	1- 9	1-11	2- 2	2- 5	2- 9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 2	0- 2	0- 2	0- 2	0- 3	0- 3	0- 3	0- 4	0- 4	0- 5
100.00	0- 3	0- 4	0- 4	0- 4	0- 5	0- 5	0- 6	0- 7	0- 8	0- 9
125.00	0- 5	0- 6	0- 6	0- 7	0- 7	0- 8	0- 9	0-11	1- 0	1- 2
150.00	0- 7	0- 8	0- 9	0-10	0-11	1- 0	1- 2	1- 4	1- 6	1- 9
175.00	0-10	0-11	1- 0	1- 1	1- 3	1- 4	1- 7	1- 9	2- 0	2- 4
200.00	1- 1	1- 2	1- 3	1- 5	1- 7	1- 9	2- 0	2- 4	2- 8	3- 1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.21

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 4	0- 4	0- 4	0- 5	0- 5	0- 6	0- 6	0- 6	0- 7	0- 7
125.00	0- 6	0- 6	0- 7	0- 7	0- 8	0- 9	0- 9	0-10	0-11	1- 0
150.00	0- 8	0- 9	0-10	0-11	0-11	1- 0	1- 1	1- 3	1- 4	1- 5
175.00	0-11	1- 0	1- 1	1- 2	1- 4	1- 5	1- 6	1- 8	1- 9	1-11
200.00	1- 3	1- 4	1- 5	1- 7	1- 8	1-10	2- 0	2- 2	2- 4	2- 6
225.00	1- 7	1- 8	1-10	2- 0	2- 2	2- 4	2- 6	2- 9	2-11	3- 2
250.00	1-11	2- 1	2- 3	2- 5	2- 8	2-11	3- 1	3- 4	3- 7	3-11

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 4	0- 4	0- 4	0- 5	0- 5	0- 6	0- 6	0- 7	0- 7	0- 8
125.00	0- 6	0- 6	0- 7	0- 7	0- 8	0- 9	0-10	0-11	0-11	1- 0
150.00	0- 8	0- 9	0-10	0-11	1- 0	1- 1	1- 2	1- 3	1- 4	1- 6
175.00	0-11	1- 0	1- 1	1- 3	1- 4	1- 5	1- 7	1- 9	1-10	2- 0
200.00	1- 3	1- 4	1- 6	1- 7	1- 9	1-11	2- 1	2- 3	2- 5	2- 7
225.00	1- 7	1- 8	1-10	2- 0	2- 2	2- 5	2- 7	2-10	3- 1	3- 4
250.00	1-11	2- 1	2- 3	2- 6	2- 9	3- 0	3- 3	3- 6	3- 9	4- 1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 22 OF 33

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.22

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	0-11	1- 0	1- 0	1- 1	1- 2	1- 3	1- 3	1- 4
175.00	1- 1	1- 2	1- 3	1- 4	1- 5	1- 6	1- 7	1- 8	1- 9	1-10
200.00	1- 6	1- 7	1- 8	1- 9	1-10	1-11	2- 1	2- 2	2- 3	2- 4
225.00	1-10	2- 0	2- 1	2- 3	2- 4	2- 6	2- 7	2- 9	2-10	3- 0
250.00	2- 4	2- 5	2- 7	2- 9	2-11	3- 1	3- 2	3- 4	3- 6	3- 8
275.00	2- 9	2-11	3- 1	3- 4	3- 6	3- 8	3-10	4- 1	4- 3	4- 5
300.00	3- 4	3- 6	3- 9	3-11	4- 2	4- 5	4- 7	4-10	5- 1	5- 3
325.00	3-11	4- 1	4- 4	4- 7	4-11	5- 2	5- 5	5- 8	5-11	6- 2
350.00	4- 6	4- 9	5- 1	5- 4	5- 8	6- 0	6- 3	6- 7	6-11	7- 2
375.00	5- 2	5- 6	5-10	6- 2	6- 6	6-10	7- 2	7- 7	7-11	8- 3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	0-11	1- 0	1- 1	1- 1	1- 2	1- 3	1- 4	1- 4
175.00	1- 2	1- 3	1- 3	1- 4	1- 5	1- 6	1- 7	1- 8	1- 9	1-10
200.00	1- 6	1- 7	1- 8	1- 9	1-11	2- 0	2- 1	2- 2	2- 4	2- 5
225.00	1-10	2- 0	2- 2	2- 3	2- 5	2- 6	2- 8	2- 9	2-11	3- 1
250.00	2- 4	2- 6	2- 7	2- 9	2-11	3- 1	3- 3	3- 5	3- 7	3- 9
275.00	2-10	3- 0	3- 2	3- 4	3- 7	3- 9	4- 0	4- 2	4- 4	4- 7
300.00	3- 4	3- 7	3- 9	4- 0	4- 3	4- 6	4- 9	4-11	5- 2	5- 5
325.00	3-11	4- 2	4- 5	4- 8	5- 0	5- 3	5- 6	5-10	6- 1	6- 4
350.00	4- 6	4-10	5- 2	5- 6	5- 9	6- 1	6- 5	6- 9	7- 1	7- 5
375.00	5- 2	5- 7	5-11	6- 3	6- 8	7- 0	7- 5	7- 9	8- 1	8- 6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 23 OF 33

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.23

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1- 8	1- 9	1-10	1-11	1-11	2- 0	2- 1	2- 2	2- 3	2- 3
225.00	2- 1	2- 2	2- 4	2- 5	2- 6	2- 7	2- 8	2- 9	2-10	2-11
250.00	2- 7	2- 9	2-10	2-11	3- 1	3- 2	3- 3	3- 4	3- 5	3- 7
275.00	3- 2	3- 4	3- 5	3- 7	3- 8	3-10	3-11	4- 1	4- 2	4- 4
300.00	3- 9	3-11	4- 1	4- 3	4- 5	4- 6	4- 8	4-10	5- 0	5- 1
325.00	4- 5	4- 7	4- 9	5- 0	5- 2	5- 4	5- 6	5- 8	5-10	6- 0
350.00	5- 2	5- 4	5- 7	5- 9	6- 0	6- 2	6- 5	6- 7	6- 9	7- 0
375.00	5-11	6- 2	6- 4	6- 7	6-10	7- 1	7- 4	7- 7	7- 9	8- 0
400.00	6- 8	7- 0	7- 3	7- 6	7-10	8- 1	8- 4	8- 7	8-10	9- 1
425.00	7- 7	7-10	8- 2	8- 6	8-10	9- 1	9- 5	9- 8	10- 0	10- 3
450.00	8- 6	8-10	9- 2	9- 6	9-10	10- 2	10- 7	10-11	11- 2	11- 6
475.00	9- 5	9-10	10- 3	10- 7	11- 0	11- 4	11- 9	12- 1	12- 6	12-10
500.00	10- 6	10-11	11- 4	11- 9	12- 2	12- 7	13- 0	13- 5	13-10	14- 3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1- 8	1- 9	1-10	1-11	2- 0	2- 1	2- 1	2- 2	2- 3	2- 4
225.00	2- 2	2- 3	2- 4	2- 5	2- 6	2- 7	2- 8	2- 9	2-10	2-11
250.00	2- 8	2- 9	2-10	3- 0	3- 1	3- 2	3- 4	3- 5	3- 6	3- 7
275.00	3- 2	3- 4	3- 6	3- 7	3- 9	3-10	4- 0	4- 2	4- 3	4- 4
300.00	3-10	4- 0	4- 2	4- 4	4- 5	4- 7	4- 9	4-11	5- 1	5- 2
325.00	4- 6	4- 8	4-10	5- 0	5- 3	5- 5	5- 7	5- 9	5-11	6- 1
350.00	5- 2	5- 5	5- 8	5-10	6- 1	6- 3	6- 6	6- 8	6-11	7- 1
375.00	5-11	6- 3	6- 6	6- 8	6-11	7- 2	7- 5	7- 8	7-11	8- 2
400.00	6- 9	7- 1	7- 4	7- 8	7-11	8- 2	8- 6	8- 9	9- 0	9- 3
425.00	7- 8	8- 0	8- 4	8- 7	8-11	9- 3	9- 7	9-10	10- 2	10- 5
450.00	8- 7	8-11	9- 4	9- 8	10- 0	10- 4	10- 9	11- 1	11- 5	11- 9
475.00	9- 7	10- 0	10- 4	10- 9	11- 2	11- 7	11-11	12- 4	12- 8	13- 1
500.00	10- 7	11- 0	11- 6	11-11	12- 4	12-10	13- 3	13- 8	14- 1	14- 6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.24

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-10	2-11	3- 0	3- 1	3- 2	3- 3	3- 3	3- 4	3- 5	3- 6
275.00	3- 5	3- 6	3- 7	3- 9	3-10	3-11	4- 0	4- 1	4- 2	4- 3
300.00	4- 1	4- 2	4- 4	4- 5	4- 6	4- 8	4- 9	4-10	4-11	5- 0
325.00	4-10	4-11	5- 1	5- 2	5- 4	5- 5	5- 7	5- 8	5- 9	5-11
350.00	5- 7	5- 9	5-10	6- 0	6- 2	6- 4	6- 5	6- 7	6- 9	6-10
375.00	6- 5	6- 7	6- 9	6-11	7- 1	7- 3	7- 5	7- 7	7- 9	7-10
400.00	7- 3	7- 6	7- 8	7-10	8- 0	8- 3	8- 5	8- 7	8- 9	8-11
425.00	8- 3	8- 5	8- 8	8-10	9- 1	9- 3	9- 6	9- 8	9-11	10- 1
450.00	9- 2	9- 5	9- 8	9-11	10- 2	10- 5	10- 8	10-11	11- 1	11- 4
475.00	10- 3	10- 6	10-10	11- 1	11- 4	11- 7	11-10	12- 1	12- 4	12- 7
500.00	11- 4	11- 8	12- 0	12- 3	12- 7	12-10	13- 2	13- 5	13- 9	14- 0
525.00	12- 6	12-10	13- 2	13- 6	13-10	14- 2	14- 6	14-10	15- 1	15- 5
550.00	13- 9	14- 1	14- 6	14-10	15- 2	15- 7	15-11	16- 3	16- 7	16-11
575.00	15- 0	15- 5	15-10	16- 3	16- 7	17- 0	17- 5	17- 9	18- 2	18- 6
600.00	16- 4	16-10	17- 3	17- 8	18- 1	18- 6	18-11	19- 4	19- 9	20- 2
625.00	17- 9	18- 3	18- 9	19- 2	19- 8	20- 1	20- 7	21- 0	21- 5	21-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-10	2-11	3- 0	3- 1	3- 2	3- 3	3- 4	3- 5	3- 6	3- 6
275.00	3- 6	3- 7	3- 8	3- 9	3-10	3-11	4- 0	4- 1	4- 2	4- 3
300.00	4- 2	4- 3	4- 4	4- 6	4- 7	4- 8	4- 9	4-11	5- 0	5- 1
325.00	4-10	5- 0	5- 1	5- 3	5- 4	5- 6	5- 7	5- 9	5-10	6- 0
350.00	5- 7	5- 9	5-11	6- 1	6- 3	6- 4	6- 6	6- 8	6- 9	6-11
375.00	6- 5	6- 8	6-10	7- 0	7- 2	7- 4	7- 6	7- 8	7-10	7-11
400.00	7- 4	7- 7	7- 9	7-11	8- 2	8- 4	8- 6	8- 8	8-10	9- 1
425.00	8- 3	8- 6	8- 9	8-11	9- 2	9- 5	9- 7	9-10	10- 0	10- 3
450.00	9- 4	9- 7	9-10	10- 1	10- 3	10- 6	10- 9	11- 0	11- 3	11- 5
475.00	10- 4	10- 8	10-11	11- 2	11- 6	11- 9	12- 0	12- 3	12- 6	12- 9
500.00	11- 6	11- 9	12- 1	12- 5	12- 8	13- 0	13- 3	13- 7	13-10	14- 2
525.00	12- 8	13- 0	13- 4	13- 8	14- 0	14- 4	14- 8	15- 0	15- 3	15- 7
550.00	13-11	14- 3	14- 8	15- 0	15- 4	15- 9	16- 1	16- 5	16- 9	17- 1
575.00	15- 2	15- 7	16- 0	16- 5	16-10	17- 2	17- 7	18- 0	18- 4	18- 9
600.00	16- 6	17- 0	17- 5	17-10	18- 4	18- 9	19- 2	19- 7	20- 0	20- 4
625.00	17-11	18- 5	18-11	19- 5	19-10	20- 4	20- 9	21- 3	21- 8	22- 1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.25

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Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.518	0.78	2424	0.78	2424*
20	0	0	0	0.654	0.30	2762	0.30	2762
30	0	0	0	0.654	0.32	2548	0.32	2548
40	0	0	0	0.654	0.35	2322	0.35	2335
50	0	0	0	0.654	0.39	2082	0.38	2125
60	0	0	0	0.654	0.44	1850	0.43	1918
70	0	0	0	0.654	0.50	1629	0.48	1718
80	0	0	0	0.654	0.57	1425	0.54	1527
90	0	0	0	0.654	0.66	1240	0.61	1350
100	0	0	0	0.654	0.76	1081	0.69	1189
110	0	0	0	0.654	0.86	947	0.78	1048
120	0	0	0	0.654	0.98	838	0.88	928
130	0	0	0	0.654	1.09	751	0.99	828
167	0	0	0	0.654	1.49	549	1.38	591
212	0	0	0	0.654	1.91	429	1.81	452

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.518	3.13	2424	3.13	2424*
20	0	0	0	0.654	1.70	1922	1.66	1968
30	0	0	0	0.654	1.86	1762	1.80	1816
40	0	0	0	0.654	2.02	1618	1.95	1678
50	0	0	0	0.654	2.19	1491	2.11	1552
60	0	0	0	0.654	2.37	1379	2.27	1440
70	0	0	0	0.654	2.55	1282	2.44	1340
80	0	0	0	0.654	2.73	1197	2.61	1252
90	0	0	0	0.654	2.91	1124	2.79	1174
100	0	0	0	0.654	3.09	1059	2.96	1106
110	0	0	0	0.654	3.26	1003	3.13	1046
120	0	0	0	0.654	3.44	953	3.30	992
130	0	0	0	0.654	3.60	909	3.46	945
167	0	0	0	0.654	4.19	783	4.05	809
212	0	0	0	0.654	4.83	679	4.70	698

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.518	7.06	2424	7.06	2424*
20	0	0	0	0.654	5.28	1395	5.15	1430
30	0	0	0	0.654	5.51	1337	5.37	1371
40	0	0	0	0.654	5.74	1284	5.60	1317
50	0	0	0	0.654	5.96	1237	5.81	1267
60	0	0	0	0.654	6.18	1193	6.03	1222
70	0	0	0	0.654	6.39	1153	6.24	1181
80	0	0	0	0.654	6.60	1117	6.45	1143
90	0	0	0	0.654	6.81	1083	6.66	1108
100	0	0	0	0.654	7.01	1052	6.86	1075
110	0	0	0	0.654	7.21	1023	7.06	1045
120	0	0	0	0.654	7.41	996	7.25	1017
130	0	0	0	0.654	7.60	971	7.44	991
167	0	0	0	0.654	8.28	891	8.13	908
212	0	0	0	0.654	9.05	816	8.90	829

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.518	12.58	2424	12.58	2424*
20	0	0	0	0.654	10.74	1222	10.58	1240
30	0	0	0	0.654	10.97	1196	10.81	1213
40	0	0	0	0.654	11.20	1171	11.04	1188
50	0	0	0	0.654	11.43	1148	11.27	1164
60	0	0	0	0.654	11.66	1126	11.49	1142
70	0	0	0	0.654	11.88	1105	11.72	1120
80	0	0	0	0.654	12.10	1085	11.93	1100
90	0	0	0	0.654	12.31	1066	12.15	1081
100	0	0	0	0.654	12.52	1049	12.36	1062
110	0	0	0	0.654	12.73	1031	12.57	1045
120	0	0	0	0.654	12.94	1015	12.78	1028
130	0	0	0	0.654	13.14	999	12.98	1012
167	0	0	0	0.654	13.88	947	13.72	958
212	0	0	0	0.654	14.73	893	14.57	902

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.518	19.70	2424	19.70	2424*
20	0	0	0	0.654	17.84	1151	17.68	1162
30	0	0	0	0.654	18.08	1137	17.91	1147
40	0	0	0	0.654	18.31	1122	18.14	1133
50	0	0	0	0.654	18.53	1109	18.37	1119
60	0	0	0	0.654	18.76	1096	18.59	1105
70	0	0	0	0.654	18.98	1083	18.82	1092
80	0	0	0	0.654	19.21	1070	19.04	1080
90	0	0	0	0.654	19.42	1059	19.26	1068
100	0	0	0	0.654	19.64	1047	19.47	1056
110	0	0	0	0.654	19.86	1036	19.69	1044
120	0	0	0	0.654	20.07	1025	19.90	1033
130	0	0	0	0.654	20.28	1014	20.11	1023
167	0	0	0	0.654	21.04	978	20.88	986
212	0	0	0	0.654	21.94	939	21.78	946

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5
100.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
125.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-3
150.00	0-8	0-9	0-9	0-10	1-0	1-1	1-2	1-4	1-7	1-9
175.00	0-11	1-0	1-1	1-2	1-4	1-5	1-8	1-10	2-1	2-5
200.00	1-2	1-3	1-5	1-6	1-8	1-11	2-2	2-5	2-9	3-1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
100.00	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10
125.00	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-2	1-4
150.00	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-6	1-8	1-11
175.00	0-11	1-0	1-1	1-2	1-4	1-6	1-9	2-0	2-4	2-8
200.00	1-2	1-3	1-5	1-7	1-9	2-0	2-4	2-8	3-0	3-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.29

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9
125.00	0-8	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3
150.00	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8	1-9
175.00	1-3	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-3	2-5
200.00	1-8	1-10	1-11	2-1	2-3	2-5	2-7	2-9	3-0	3-2
225.00	2-1	2-3	2-6	2-8	2-11	3-1	3-4	3-6	3-9	4-0
250.00	2-7	2-10	3-1	3-4	3-7	3-10	4-1	4-4	4-7	4-11

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10
125.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3
150.00	0-11	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-10
175.00	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-3	2-4	2-6
200.00	1-8	1-10	2-0	2-2	2-4	2-7	2-9	2-11	3-1	3-3
225.00	2-2	2-4	2-7	2-9	3-0	3-3	3-6	3-8	3-11	4-2
250.00	2-8	2-11	3-2	3-5	3-8	4-0	4-3	4-7	4-10	5-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.30

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1- 3	1- 4	1- 5	1- 5	1- 6	1- 7	1- 7	1- 8	1- 9	1- 9
175.00	1- 9	1-10	1-11	2- 0	2- 1	2- 1	2- 2	2- 3	2- 4	2- 5
200.00	2- 3	2- 5	2- 6	2- 7	2- 8	2- 9	2-10	2-11	3- 1	3- 2
225.00	2-11	3- 0	3- 2	3- 3	3- 5	3- 6	3- 8	3- 9	3-10	4- 0
250.00	3- 7	3- 9	3-11	4- 0	4- 2	4- 4	4- 6	4- 7	4- 9	4-11
275.00	4- 4	4- 6	4- 8	4-11	5- 1	5- 3	5- 5	5- 7	5- 9	5-11
300.00	5- 2	5- 4	5- 7	5-10	6- 0	6- 3	6- 5	6- 8	6-10	7- 1
325.00	6- 1	6- 4	6- 7	6-10	7- 1	7- 4	7- 7	7-10	8- 1	8- 3
350.00	7- 0	7- 4	7- 7	7-11	8- 3	8- 6	8- 9	9- 1	9- 4	9- 7
375.00	8- 1	8- 5	8- 9	9- 1	9- 5	9- 9	10- 1	10- 5	10- 9	11- 0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1- 4	1- 5	1- 5	1- 6	1- 7	1- 7	1- 8	1- 8	1- 9	1-10
175.00	1-10	1-10	1-11	2- 0	2- 1	2- 2	2- 3	2- 4	2- 5	2- 5
200.00	2- 4	2- 5	2- 7	2- 8	2- 9	2-10	2-11	3- 0	3- 1	3- 2
225.00	3- 0	3- 1	3- 3	3- 4	3- 6	3- 7	3- 9	3-10	3-11	4- 1
250.00	3- 8	3-10	4- 0	4- 2	4- 3	4- 5	4- 7	4- 9	4-10	5- 0
275.00	4- 5	4- 8	4-10	5- 0	5- 2	5- 4	5- 7	5- 9	5-11	6- 1
300.00	5- 3	5- 6	5- 9	6- 0	6- 2	6- 5	6- 7	6-10	7- 0	7- 3
325.00	6- 2	6- 6	6- 9	7- 0	7- 3	7- 6	7- 9	8- 0	8- 3	8- 6
350.00	7- 2	7- 6	7-10	8- 1	8- 5	8- 8	9- 0	9- 3	9- 7	9-10
375.00	8- 3	8- 7	9- 0	9- 4	9- 8	10- 0	10- 4	10- 8	11- 0	11- 3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 31 OF 33

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.31

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2- 8	2- 8	2- 9	2-10	2-10	2-11	3- 0	3- 0	3- 1	3- 2
225.00	3- 4	3- 5	3- 6	3- 7	3- 8	3- 8	3- 9	3-10	3-11	4- 0
250.00	4- 2	4- 3	4- 4	4- 5	4- 6	4- 7	4- 8	4- 9	4-10	4-11
275.00	5- 0	5- 1	5- 3	5- 4	5- 5	5- 6	5- 8	5- 9	5-10	5-11
300.00	5-11	6- 1	6- 3	6- 4	6- 6	6- 7	6- 9	6-10	6-11	7- 1
325.00	7- 0	7- 2	7- 3	7- 5	7- 7	7- 9	7-11	8- 0	8- 2	8- 4
350.00	8- 1	8- 3	8- 5	8- 8	8-10	9- 0	9- 2	9- 4	9- 6	9- 7
375.00	9- 4	9- 6	9- 8	9-11	10- 1	10- 4	10- 6	10- 8	10-10	11- 1
400.00	10- 7	10-10	11- 1	11- 3	11- 6	11- 9	11-11	12- 2	12- 4	12- 7
425.00	11-11	12- 3	12- 6	12- 9	13- 0	13- 3	13- 6	13- 9	13-11	14- 2
450.00	13- 5	13- 8	14- 0	14- 3	14- 7	14-10	15- 1	15- 5	15- 8	15-11
475.00	14-11	15- 3	15- 7	15-11	16- 3	16- 6	16-10	17- 2	17- 5	17- 9
500.00	16- 6	16-11	17- 3	17- 7	18- 0	18- 4	18- 8	19- 0	19- 4	19- 8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2- 8	2- 9	2-10	2-10	2-11	3- 0	3- 0	3- 1	3- 2	3- 2
225.00	3- 5	3- 6	3- 7	3- 7	3- 8	3- 9	3-10	3-11	4- 0	4- 0
250.00	4- 2	4- 3	4- 4	4- 6	4- 7	4- 8	4- 9	4-10	4-11	5- 0
275.00	5- 1	5- 2	5- 4	5- 5	5- 6	5- 7	5- 9	5-10	5-11	6- 0
300.00	6- 0	6- 2	6- 4	6- 5	6- 7	6- 8	6-10	6-11	7- 0	7- 2
325.00	7- 1	7- 3	7- 5	7- 7	7- 8	7-10	8- 0	8- 1	8- 3	8- 5
350.00	8- 3	8- 5	8- 7	8- 9	8-11	9- 1	9- 3	9- 5	9- 7	9- 9
375.00	9- 5	9- 8	9-10	10- 1	10- 3	10- 5	10- 8	10-10	11- 0	11- 2
400.00	10- 9	11- 0	11- 2	11- 5	11- 8	11-11	12- 1	12- 4	12- 6	12- 9
425.00	12- 1	12- 5	12- 8	12-11	13- 2	13- 5	13- 8	13-11	14- 2	14- 5
450.00	13- 7	13-11	14- 2	14- 6	14- 9	15- 0	15- 4	15- 7	15-10	16- 1
475.00	15- 2	15- 6	15-10	16- 2	16- 5	16- 9	17- 1	17- 4	17- 8	18- 0
500.00	16- 9	17- 2	17- 6	17-10	18- 3	18- 7	18-11	19- 3	19- 7	19-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.32

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4- 5	4- 6	4- 6	4- 7	4- 8	4- 8	4- 9	4-10	4-10	4-11
275.00	5- 4	5- 5	5- 6	5- 7	5- 7	5- 8	5- 9	5-10	5-11	5-11
300.00	6- 4	6- 5	6- 6	6- 7	6- 8	6- 9	6-10	6-11	7- 0	7- 1
325.00	7- 6	7- 7	7- 8	7- 9	7-10	7-11	8- 0	8- 2	8- 3	8- 4
350.00	8- 8	8- 9	8-11	9- 0	9- 1	9- 3	9- 4	9- 5	9- 6	9- 8
375.00	9-11	10- 1	10- 2	10- 4	10- 5	10- 7	10- 8	10-10	10-11	11- 1
400.00	11- 4	11- 5	11- 7	11- 9	11-11	12- 0	12- 2	12- 4	12- 5	12- 7
425.00	12- 9	12-11	13- 1	13- 3	13- 5	13- 7	13- 9	13-11	14- 1	14- 3
450.00	14- 4	14- 6	14- 8	14-10	15- 1	15- 3	15- 5	15- 7	15- 9	15-11
475.00	15-11	16- 2	16- 4	16- 7	16- 9	17- 0	17- 2	17- 5	17- 7	17- 9
500.00	17- 8	17-11	18- 2	18- 4	18- 7	18-10	19- 0	19- 3	19- 6	19- 8
525.00	19- 6	19- 9	20- 0	20- 3	20- 6	20- 9	21- 0	21- 3	21- 6	21- 9
550.00	21- 5	21- 8	21-11	22- 3	22- 6	22- 9	23- 1	23- 4	23- 7	23-10
575.00	23- 5	23- 8	24- 0	24- 4	24- 7	24-11	25- 2	25- 6	25- 9	26- 1
600.00	25- 6	25-10	26- 2	26- 6	26-10	27- 1	27- 5	27- 9	28- 1	28- 5
625.00	27- 8	28- 0	28- 4	28- 9	29- 1	29- 5	29- 9	30- 1	30- 6	30-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4- 5	4- 6	4- 7	4- 8	4- 8	4- 9	4-10	4-10	4-11	4-11
275.00	5- 5	5- 6	5- 6	5- 7	5- 8	5- 9	5-10	5-10	5-11	6- 0
300.00	6- 5	6- 6	6- 7	6- 8	6- 9	6-10	6-11	7- 0	7- 1	7- 2
325.00	7- 6	7- 8	7- 9	7-10	7-11	8- 0	8- 1	8- 2	8- 3	8- 5
350.00	8- 9	8-10	9- 0	9- 1	9- 2	9- 4	9- 5	9- 6	9- 7	9- 9
375.00	10- 0	10- 2	10- 3	10- 5	10- 7	10- 8	10-10	10-11	11- 0	11- 2
400.00	11- 5	11- 7	11- 9	11-10	12- 0	12- 2	12- 3	12- 5	12- 7	12- 8
425.00	12-11	13- 1	13- 3	13- 5	13- 7	13- 9	13-10	14- 0	14- 2	14- 4
450.00	14- 5	14- 8	14-10	15- 0	15- 2	15- 4	15- 7	15- 9	15-11	16- 1
475.00	16- 1	16- 4	16- 6	16- 9	16-11	17- 2	17- 4	17- 6	17- 9	17-11
500.00	17-10	18- 1	18- 4	18- 6	18- 9	19- 0	19- 2	19- 5	19- 8	19-10
525.00	19- 8	19-11	20- 2	20- 5	20- 8	20-11	21- 2	21- 5	21- 8	21-11
550.00	21- 7	21-11	22- 2	22- 5	22- 9	23- 0	23- 3	23- 6	23- 9	24- 0
575.00	23- 7	23-11	24- 3	24- 6	24-10	25- 1	25- 5	25- 8	26- 0	26- 3
600.00	25- 9	26- 1	26- 5	26- 9	27- 0	27- 4	27- 8	28- 0	28- 4	28- 7
625.00	27-11	28- 3	28- 8	29- 0	29- 4	29- 8	30- 0	30- 5	30- 9	31- 1

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SHEET 33 OF 33

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.33

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 1/0 RTS TRIPLEX CONDUCTOR. CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION
- 1000 LB TENSION ---------- 821.2
- 1500 LB TENSION ---------- 821.10
- 2000 LB TENSION ---------- 821.18

G.O. 95 HEAVY LOADING CONDITION
- 1000 LB TENSION ---------- 821.26
- 1500 LB TENSION ---------- 821.34
- 2000 LB TENSION ---------- 821.42

SDG&E EXTRA HEAVY LOADING CONDITION
- 1000 LB TENSION ---------- 821.50
- 1500 LB TENSION ---------- 821.56
- 2000 LB TENSION ---------- 821.64

65 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 821.72
- 1500 LB TENSION ---------- 821.80
- 2000 LB TENSION ---------- 821.88

65 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 821.96
- 1500 LB TENSION ---------- 821.104
- 2000 LB TENSION ---------- 821.112

85 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 821.120
- 1500 LB TENSION ---------- 821.128
- 2000 LB TENSION ---------- 821.136

85 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 821.144
- 1500 LB TENSION ---------- 821.152
- 2000 LB TENSION ---------- 821.160

111 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 821.168
- 1500 LB TENSION ---------- 821.176
- 2000 LB TENSION ---------- 821.184

111 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 821.192
- 1500 LB TENSION ---------- 821.200
- 2000 LB TENSION ---------- 821.208

REFERENCE:

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.809	1.01	1000	1.01	1000*
25	0	0	0	0.481	0.75	798	0.75	806
30	0	0	0	0.481	0.79	759	0.78	767
40	0	0	0	0.481	0.87	689	0.86	697
50	0	0	0	0.481	0.96	627	0.95	635
60	0	0	0	0.481	1.05	574	1.03	582
70	0	0	0	0.481	1.14	530	1.12	536
80	0	0	0	0.481	1.22	491	1.21	497
90	0	0	0	0.481	1.31	459	1.3	463
100	0	0	0	0.481	1.4	431	1.39	434
110	0	0	0	0.481	1.48	406	1.47	409
120	0	0	0	0.481	1.56	385	1.55	389
130	0	0	0	0.481	1.64	367	1.62	372
167	0	0	0	0.481	1.89	319	1.86	323
212	0	0	0	0.481	2.16	278	2.14	282

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.809	4.05	1000	4.05	1000*
25	0	0	0	0.481	3.65	659	3.63	663
30	0	0	0	0.481	3.72	648	3.7	651
40	0	0	0	0.481	3.85	626	3.83	629
50	0	0	0	0.481	3.98	606	3.96	609
60	0	0	0	0.481	4.1	587	4.08	590
70	0	0	0	0.481	4.23	570	4.21	572
80	0	0	0	0.481	4.35	554	4.33	556
90	0	0	0	0.481	4.47	540	4.45	541
100	0	0	0	0.481	4.58	526	4.57	527
110	0	0	0	0.481	4.7	513	4.69	514
120	0	0	0	0.481	4.81	501	4.81	502
130	0	0	0	0.481	4.92	490	4.91	491
167	0	0	0	0.481	5.3	455	5.27	458
212	0	0	0	0.481	5.71	423	5.68	425

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.2

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.809	9.14	1000	9.14	1000*
25	0	0	0	0.481	8.71	624	8.68	625
30	0	0	0	0.481	8.78	619	8.75	620
40	0	0	0	0.481	8.92	609	8.89	611
50	0	0	0	0.481	9.05	600	9.03	601
60	0	0	0	0.481	9.19	591	9.17	592
70	0	0	0	0.481	9.33	583	9.31	584
80	0	0	0	0.481	9.46	574	9.44	575
90	0	0	0	0.481	9.59	567	9.58	567
100	0	0	0	0.481	9.72	559	9.71	560
110	0	0	0	0.481	9.85	552	9.84	552
120	0	0	0	0.481	9.98	545	9.97	545
130	0	0	0	0.481	10.1	538	10.1	538
167	0	0	0	0.481	10.54	516	10.51	517
212	0	0	0	0.481	11.02	493	11	495

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.809	16.29	1000	16.29	1000*
25	0	0	0	0.481	15.85	611	15.82	612
30	0	0	0	0.481	15.92	608	15.9	609
40	0	0	0	0.481	16.06	603	16.04	604
50	0	0	0	0.481	16.21	598	16.18	598
60	0	0	0	0.481	16.35	592	16.33	593
70	0	0	0	0.481	16.49	588	16.47	588
80	0	0	0	0.481	16.62	583	16.61	583
90	0	0	0	0.481	16.76	578	16.75	578
100	0	0	0	0.481	16.9	573	16.89	574
110	0	0	0	0.481	17.03	569	17.03	569
120	0	0	0	0.481	17.17	564	17.16	565
130	0	0	0	0.481	17.3	560	17.3	560
167	0	0	0	0.481	17.77	546	17.75	546
212	0	0	0	0.481	18.3	530	18.27	531

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.809	25.55	1000	25.55	1000*
25	0	0	0	0.481	25.11	605	25.08	605
30	0	0	0	0.481	25.18	603	25.15	604
40	0	0	0	0.481	25.32	600	25.3	600
50	0	0	0	0.481	25.46	596	25.44	597
60	0	0	0	0.481	25.61	593	25.59	594
70	0	0	0	0.481	25.75	590	25.73	590
80	0	0	0	0.481	25.89	587	25.87	587
90	0	0	0	0.481	26.03	584	26.02	584
100	0	0	0	0.481	26.17	581	26.16	581
110	0	0	0	0.481	26.31	578	26.3	578
120	0	0	0	0.481	26.45	575	26.44	575
130	0	0	0	0.481	26.58	572	26.58	572
167	0	0	0	0.481	27.07	562	27.05	562
212	0	0	0	0.481	27.62	551	27.6	551

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-9	0-10
100	0-9	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6
125	1-1	1-3	1-4	1-6	1-7	1-9	1-11	2-0	2-2	2-4
150	1-7	1-9	1-11	2-2	2-4	2-6	2-9	2-11	3-1	3-4
175	2-2	2-5	2-8	2-11	3-2	3-5	3-9	4-0	4-3	4-6
200	2-10	3-2	3-5	3-9	4-2	4-6	4-10	5-2	5-7	5-11

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-9	0-10
100	0-9	0-10	0-10	1-0	1-1	1-2	1-3	1-4	1-5	1-6
125	1-1	1-3	1-4	1-6	1-8	1-9	1-11	2-1	2-2	2-4
150	1-7	1-9	2-0	2-2	2-4	2-7	2-9	2-11	3-2	3-4
175	2-2	2-5	2-8	2-11	3-2	3-6	3-9	4-0	4-3	4-6
200	2-10	3-2	3-6	3-10	4-2	4-7	4-11	5-3	5-7	5-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.5

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-11	0-11	0-11	1-0	1-0	1-1	1-1	1-1	1-2	1-2
125	1-5	1-5	1-6	1-7	1-7	1-8	1-8	1-9	1-9	1-10
150	2-0	2-1	2-2	2-3	2-4	2-4	2-5	2-6	2-7	2-8
175	2-9	2-10	2-11	3-0	3-2	3-3	3-4	3-5	3-6	3-7
200	3-7	3-8	3-10	3-11	4-1	4-3	4-4	4-5	4-7	4-8
225	4-6	4-8	4-10	5-0	5-2	5-4	5-6	5-8	5-9	5-11
250	5-7	5-9	6-0	6-2	6-5	6-7	6-9	7-0	7-2	7-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-11	0-11	1-0	1-0	1-0	1-1	1-1	1-1	1-2	1-2
125	1-5	1-5	1-6	1-7	1-7	1-8	1-8	1-9	1-9	1-10
150	2-0	2-1	2-2	2-3	2-4	2-5	2-5	2-6	2-7	2-8
175	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-5	3-6	3-7
200	3-7	3-9	3-10	4-0	4-1	4-3	4-4	4-6	4-7	4-8
225	4-6	4-8	4-10	5-0	5-2	5-4	5-6	5-8	5-10	5-11
250	5-7	5-10	6-0	6-3	6-5	6-7	6-10	7-0	7-2	7-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.6

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-2	2-2	2-3	2-3	2-3	2-4	2-4	2-5	2-5	2-5
175	2-11	3-0	3-0	3-1	3-1	3-2	3-3	3-3	3-4	3-4
200	3-10	3-11	3-11	4-0	4-1	4-2	4-2	4-3	4-4	4-4
225	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-6
250	6-0	6-1	6-2	6-3	6-4	6-6	6-7	6-8	6-9	6-10
275	7-3	7-4	7-6	7-7	7-8	7-10	7-11	8-1	8-2	8-3
300	8-7	8-9	8-11	9-0	9-2	9-4	9-5	9-7	9-9	9-10
325	10-1	10-3	10-5	10-7	10-9	10-11	11-1	11-3	11-5	11-7
350	11-9	11-11	12-1	12-4	12-6	12-8	12-10	13-1	13-3	13-5
375	13-6	13-8	13-11	14-1	14-4	14-7	14-9	15-0	15-2	15-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-2	2-2	2-3	2-3	2-4	2-4	2-4	2-5	2-5	2-6
175	2-11	3-0	3-0	3-1	3-1	3-2	3-3	3-3	3-4	3-4
200	3-10	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-4	4-4
225	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-6
250	6-0	6-1	6-2	6-3	6-5	6-6	6-7	6-8	6-9	6-10
275	7-3	7-4	7-6	7-7	7-9	7-10	7-11	8-1	8-2	8-3
300	8-8	8-9	8-11	9-1	9-2	9-4	9-6	9-7	9-9	9-10
325	10-2	10-4	10-6	10-8	10-9	10-11	11-1	11-3	11-5	11-7
350	11-9	11-11	12-2	12-4	12-6	12-8	12-11	13-1	13-3	13-5
375	13-6	13-9	13-11	14-2	14-4	14-7	14-9	15-0	15-2	15-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.7

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	3-11	4-0	4-0	4-0	4-1	4-1	4-2	4-2	4-3	4-3
225	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-5
250	6-2	6-2	6-3	6-4	6-4	6-5	6-6	6-6	6-7	6-8
275	7-5	7-6	7-7	7-8	7-8	7-9	7-10	7-11	8-0	8-0
300	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6	9-7
325	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-1	11-2	11-3
350	12-1	12-2	12-3	12-5	12-6	12-7	12-9	12-10	12-11	13-0
375	13-10	14-0	14-1	14-3	14-4	14-6	14-7	14-9	14-10	15-0
400	15-9	15-11	16-0	16-2	16-4	16-6	16-7	16-9	16-11	17-0
425	17-9	17-11	18-1	18-3	18-5	18-7	18-9	18-11	19-1	19-3
450	19-11	20-2	20-4	20-6	20-8	20-10	21-0	21-3	21-5	21-7
475	22-3	22-5	22-8	22-10	23-1	23-3	23-5	23-8	23-10	24-0
500	24-8	24-10	25-1	25-4	25-6	25-9	26-0	26-2	26-5	26-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	3-11	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-3	4-3
225	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-4	5-4	5-5
250	6-2	6-3	6-3	6-4	6-5	6-5	6-6	6-6	6-7	6-8
275	7-5	7-6	7-7	7-8	7-9	7-9	7-10	7-11	8-0	8-0
300	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6	9-7
325	10-5	10-6	10-7	10-8	10-9	10-10	11-0	11-1	11-2	11-3
350	12-1	12-2	12-4	12-5	12-6	12-7	12-9	12-10	12-11	13-0
375	13-10	14-0	14-1	14-3	14-4	14-6	14-7	14-9	14-10	15-0
400	15-9	15-11	16-1	16-2	16-4	16-6	16-7	16-9	16-11	17-0
425	17-10	18-0	18-2	18-4	18-6	18-7	18-9	18-11	19-1	19-3
450	20-0	20-2	20-4	20-6	20-8	20-11	21-1	21-3	21-5	21-7
475	22-3	22-6	22-8	22-10	23-1	23-3	23-6	23-8	23-10	24-1
500	24-8	24-11	25-2	25-4	25-7	25-9	26-0	26-3	26-5	26-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.8

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	6-3	6-3	6-4	6-4	6-5	6-5	6-5	6-6	6-6	6-7
275	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-11	7-11
300	9-0	9-0	9-1	9-2	9-2	9-3	9-4	9-4	9-5	9-5
325	10-7	10-7	10-8	10-9	10-9	10-10	10-11	11-0	11-0	11-1
350	12-3	12-4	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-10
375	14-1	14-2	14-3	14-3	14-4	14-5	14-6	14-7	14-8	14-9
400	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-8	16-9	16-10
425	18-1	18-2	18-3	18-4	18-6	18-7	18-8	18-9	18-11	19-0
450	20-3	20-4	20-6	20-7	20-9	20-10	20-11	21-1	21-2	21-3
475	22-7	22-8	22-10	22-11	23-1	23-3	23-4	23-6	23-7	23-9
500	25-0	25-2	25-4	25-5	25-7	25-9	25-10	26-0	26-2	26-4
525	27-7	27-9	27-11	28-1	28-3	28-5	28-6	28-8	28-10	29-0
550	30-3	30-5	30-8	30-10	31-0	31-2	31-4	31-6	31-8	31-10
575	33-1	33-4	33-6	33-8	33-11	34-1	34-3	34-5	34-8	34-10
600	36-1	36-3	36-6	36-8	36-11	37-1	37-4	37-6	37-9	37-11
625	39-2	39-4	39-7	39-10	40-1	40-3	40-6	40-9	40-11	41-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	6-3	6-3	6-4	6-4	6-5	6-5	6-5	6-6	6-6	6-7
275	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-11	7-11
300	9-0	9-1	9-1	9-2	9-2	9-3	9-4	9-4	9-5	9-5
325	10-7	10-7	10-8	10-9	10-10	10-10	10-11	11-0	11-0	11-1
350	12-3	12-4	12-5	12-5	12-6	12-7	12-8	12-9	12-10	12-10
375	14-1	14-2	14-3	14-4	14-5	14-6	14-6	14-7	14-8	14-9
400	16-0	16-1	16-2	16-3	16-4	16-6	16-7	16-8	16-9	16-10
425	18-1	18-2	18-3	18-5	18-6	18-7	18-8	18-9	18-11	19-0
450	20-3	20-5	20-6	20-7	20-9	20-10	20-11	21-1	21-2	21-4
475	22-7	22-9	22-10	23-0	23-1	23-3	23-4	23-6	23-7	23-9
500	25-0	25-2	25-4	25-6	25-7	25-9	25-11	26-0	26-2	26-4
525	27-7	27-9	27-11	28-1	28-3	28-5	28-7	28-9	28-10	29-0
550	30-4	30-6	30-8	30-10	31-0	31-2	31-4	31-6	31-8	31-10
575	33-2	33-4	33-6	33-9	33-11	34-1	34-3	34-6	34-8	34-10
600	36-1	36-4	36-6	36-9	36-11	37-2	37-4	37-7	37-9	37-11
625	39-2	39-5	39-8	39-10	40-1	40-4	40-6	40-9	41-0	41-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.9

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.809	0.67	1500	0.67	1500*
25	0	0	0	0.481	0.43	1382	0.43	1389
30	0	0	0	0.481	0.45	1325	0.45	1334
40	0	0	0	0.481	0.5	1212	0.49	1226
50	0	0	0	0.481	0.55	1103	0.54	1121
60	0	0	0	0.481	0.6	1001	0.59	1021
70	0	0	0	0.481	0.66	906	0.65	927
80	0	0	0	0.481	0.73	819	0.72	839
90	0	0	0	0.481	0.81	741	0.79	760
100	0	0	0	0.481	0.89	672	0.87	690
110	0	0	0	0.481	0.98	613	0.96	628
120	0	0	0	0.481	1.07	563	1.05	575
130	0	0	0	0.481	1.16	519	1.14	530
167	0	0	0	0.481	1.45	414	1.41	426
212	0	0	0	0.481	1.77	340	1.73	348

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.809	2.7	1500	2.7	1500*
25	0	0	0	0.481	2.06	1166	2.04	1177
30	0	0	0	0.481	2.13	1130	2.11	1142
40	0	0	0	0.481	2.26	1064	2.24	1076
50	0	0	0	0.481	2.4	1003	2.37	1016
60	0	0	0	0.481	2.54	949	2.51	960
70	0	0	0	0.481	2.68	899	2.64	910
80	0	0	0	0.481	2.82	854	2.79	864
90	0	0	0	0.481	2.96	813	2.93	823
100	0	0	0	0.481	3.1	777	3.07	785
110	0	0	0	0.481	3.24	743	3.21	750
120	0	0	0	0.481	3.38	713	3.35	719
130	0	0	0	0.481	3.51	686	3.49	691
167	0	0	0	0.481	3.99	604	3.94	611
212	0	0	0	0.481	4.48	538	4.43	544

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.10

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.809	6.08	1500	6.08	1500*
25	0	0	0	0.481	5.24	1034	5.2	1042
30	0	0	0	0.481	5.33	1016	5.29	1024
40	0	0	0	0.481	5.51	983	5.47	990
50	0	0	0	0.481	5.7	952	5.65	959
60	0	0	0	0.481	5.87	923	5.83	929
70	0	0	0	0.481	6.05	896	6.01	902
80	0	0	0	0.481	6.23	871	6.19	876
90	0	0	0	0.481	6.4	847	6.36	852
100	0	0	0	0.481	6.57	825	6.53	830
110	0	0	0	0.481	6.74	805	6.7	809
120	0	0	0	0.481	6.91	785	6.87	789
130	0	0	0	0.481	7.07	767	7.04	770
167	0	0	0	0.481	7.66	708	7.62	712
212	0	0	0	0.481	8.28	656	8.23	660

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.809	10.82	1500	10.82	1500*
25	0	0	0	0.481	9.9	974	9.85	979
30	0	0	0	0.481	10	964	9.95	969
40	0	0	0	0.481	10.2	945	10.15	950
50	0	0	0	0.481	10.4	927	10.35	932
60	0	0	0	0.481	10.6	910	10.55	914
70	0	0	0	0.481	10.79	894	10.74	898
80	0	0	0	0.481	10.98	879	10.94	882
90	0	0	0	0.481	11.17	864	11.13	867
100	0	0	0	0.481	11.36	850	11.32	853
110	0	0	0	0.481	11.55	836	11.51	839
120	0	0	0	0.481	11.73	823	11.7	825
130	0	0	0	0.481	11.91	811	11.88	813
167	0	0	0	0.481	12.57	769	12.54	770
212	0	0	0	0.481	13.27	728	13.23	731

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.11

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.809	16.93	1500	16.93	1500*
25	0	0	0	0.481	15.98	945	15.92	948
30	0	0	0	0.481	16.08	939	16.03	942
40	0	0	0	0.481	16.29	927	16.24	930
50	0	0	0	0.481	16.5	915	16.44	918
60	0	0	0	0.481	16.7	904	16.65	907
70	0	0	0	0.481	16.9	893	16.86	896
80	0	0	0	0.481	17.1	883	17.06	885
90	0	0	0	0.481	17.3	873	17.26	875
100	0	0	0	0.481	17.5	863	17.46	865
110	0	0	0	0.481	17.7	854	17.66	855
120	0	0	0	0.481	17.89	844	17.86	846
130	0	0	0	0.481	18.08	836	18.05	837
167	0	0	0	0.481	18.78	805	18.76	806
212	0	0	0	0.481	19.55	773	19.5	775

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6
100	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11
125	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6
150	0-11	1-0	1-1	1-2	1-4	1-6	1-7	1-9	2-0	2-2
175	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-5	2-8	2-11
200	1-8	1-10	2-0	2-2	2-4	2-7	2-10	3-2	3-6	3-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7
100	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
125	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-3	1-5	1-6
150	0-11	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-0	2-2
175	1-3	1-5	1-6	1-8	1-10	2-0	2-3	2-6	2-9	3-0
200	1-8	1-10	2-0	2-2	2-5	2-8	2-11	3-3	3-7	3-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.13

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-6	0-6	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10
125	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3
150	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
175	1-6	1-7	1-9	1-10	1-11	2-0	2-2	2-3	2-4	2-5
200	2-0	2-1	2-3	2-4	2-6	2-8	2-9	2-11	3-1	3-2
225	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-11	4-1
250	3-1	3-4	3-6	3-8	3-11	4-2	4-4	4-7	4-10	5-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-6	0-6	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10
125	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-3
150	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
175	1-6	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-6
200	2-0	2-2	2-3	2-5	2-6	2-8	2-10	3-0	3-1	3-3
225	2-6	2-8	2-10	3-0	3-3	3-5	3-7	3-9	3-11	4-1
250	3-2	3-4	3-6	3-9	4-0	4-2	4-5	4-8	4-10	5-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.14

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-3	1-4	1-4	1-5	1-5	1-6	1-7	1-7	1-8	1-8
175	1-9	1-10	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-3
200	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0
225	2-10	3-0	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-9
250	3-7	3-8	3-10	3-11	4-1	4-2	4-4	4-5	4-6	4-8
275	4-4	4-5	4-7	4-9	4-11	5-1	5-2	5-4	5-6	5-8
300	5-1	5-3	5-6	5-8	5-10	6-0	6-2	6-4	6-6	6-8
325	6-0	6-3	6-5	6-8	6-10	7-1	7-3	7-6	7-8	7-10
350	6-11	7-2	7-5	7-8	7-11	8-2	8-5	8-8	8-11	9-2
375	8-0	8-3	8-7	8-10	9-1	9-5	9-8	9-11	10-3	10-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-3	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-8	1-8
175	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-4
200	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0
225	2-11	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9
250	3-7	3-8	3-10	3-11	4-1	4-2	4-4	4-5	4-7	4-8
275	4-4	4-6	4-8	4-9	4-11	5-1	5-3	5-5	5-6	5-8
300	5-2	5-4	5-6	5-8	5-10	6-1	6-3	6-5	6-7	6-9
325	6-1	6-3	6-6	6-8	6-11	7-1	7-4	7-6	7-9	7-11
350	7-0	7-3	7-6	7-9	8-0	8-3	8-6	8-9	8-11	9-2
375	8-1	8-4	8-7	8-11	9-2	9-6	9-9	10-0	10-3	10-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.15

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	2-5	2-6	2-6	2-7	2-8	2-8	2-9	2-9	2-10	2-10
225	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-6	3-7	3-8
250	3-10	3-11	4-0	4-0	4-1	4-2	4-3	4-4	4-5	4-6
275	4-7	4-8	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5
300	5-6	5-7	5-9	5-10	5-11	6-0	6-2	6-3	6-4	6-6
325	6-5	6-7	6-8	6-10	7-0	7-1	7-3	7-4	7-6	7-7
350	7-6	7-7	7-9	7-11	8-1	8-3	8-4	8-6	8-8	8-10
375	8-7	8-9	8-11	9-1	9-3	9-5	9-7	9-9	9-11	10-1
400	9-9	9-11	10-2	10-4	10-7	10-9	10-11	11-2	11-4	11-6
425	11-0	11-3	11-6	11-8	11-11	12-2	12-4	12-7	12-9	13-0
450	12-4	12-7	12-10	13-1	13-4	13-7	13-10	14-1	14-4	14-7
475	13-9	14-0	14-4	14-7	14-11	15-2	15-5	15-8	16-0	16-3
500	15-3	15-7	15-10	16-2	16-6	16-10	17-1	17-5	17-8	18-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	2-5	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-10	2-11
225	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-6	3-7	3-8
250	3-10	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-6
275	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5
300	5-6	5-7	5-9	5-10	5-11	6-1	6-2	6-3	6-5	6-6
325	6-6	6-7	6-9	6-10	7-0	7-1	7-3	7-4	7-6	7-7
350	7-6	7-8	7-10	8-0	8-1	8-3	8-5	8-7	8-8	8-10
375	8-7	8-9	9-0	9-2	9-4	9-6	9-8	9-10	10-0	10-2
400	9-10	10-0	10-2	10-5	10-7	10-9	11-0	11-2	11-4	11-7
425	11-1	11-4	11-6	11-9	12-0	12-2	12-5	12-7	12-10	13-0
450	12-5	12-8	12-11	13-2	13-5	13-8	13-11	14-2	14-5	14-7
475	13-10	14-1	14-5	14-8	14-11	15-3	15-6	15-9	16-0	16-3
500	15-4	15-8	15-11	16-3	16-7	16-10	17-2	17-6	17-9	18-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.16

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	3-11	4-0	4-1	4-1	4-2	4-3	4-3	4-4	4-4	4-5
275	4-9	4-10	4-11	5-0	5-0	5-1	5-2	5-3	5-3	5-4
300	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-2	6-3	6-4
325	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4	7-5
350	7-9	7-10	7-11	8-1	8-2	8-3	8-4	8-5	8-7	8-8
375	8-11	9-0	9-2	9-3	9-4	9-6	9-7	9-8	9-10	9-11
400	10-1	10-3	10-5	10-6	10-8	10-9	10-11	11-0	11-2	11-4
425	11-5	11-7	11-9	11-11	12-0	12-2	12-4	12-6	12-7	12-9
450	12-10	13-0	13-2	13-4	13-6	13-8	13-10	14-0	14-2	14-4
475	14-3	14-6	14-8	14-10	15-0	15-3	15-5	15-7	15-9	15-11
500	15-10	16-0	16-3	16-5	16-8	16-10	17-1	17-3	17-6	17-8
525	17-5	17-8	17-11	18-2	18-4	18-7	18-10	19-0	19-3	19-6
550	19-2	19-5	19-8	19-11	20-2	20-5	20-8	20-11	21-2	21-4
575	20-11	21-2	21-6	21-9	22-0	22-4	22-7	22-10	23-1	23-4
600	22-9	23-1	23-5	23-8	24-0	24-3	24-7	24-10	25-2	25-5
625	24-9	25-1	25-5	25-9	26-0	26-4	26-8	27-0	27-4	27-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	4-0	4-0	4-1	4-1	4-2	4-3	4-3	4-4	4-4	4-5
275	4-10	4-10	4-11	5-0	5-1	5-1	5-2	5-3	5-3	5-4
300	5-9	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-4
325	6-8	6-9	6-11	7-0	7-1	7-2	7-3	7-4	7-5	7-6
350	7-9	7-10	8-0	8-1	8-2	8-3	8-4	8-6	8-7	8-8
375	8-11	9-0	9-2	9-3	9-5	9-6	9-7	9-9	9-10	9-11
400	10-2	10-3	10-5	10-7	10-8	10-10	10-11	11-1	11-2	11-4
425	11-6	11-7	11-9	11-11	12-1	12-2	12-4	12-6	12-8	12-9
450	12-10	13-0	13-2	13-4	13-6	13-8	13-10	14-0	14-2	14-4
475	14-4	14-6	14-8	14-11	15-1	15-3	15-5	15-7	15-10	16-0
500	15-10	16-1	16-3	16-6	16-8	16-11	17-1	17-4	17-6	17-8
525	17-6	17-9	18-0	18-2	18-5	18-8	18-10	19-1	19-4	19-6
550	19-3	19-6	19-9	20-0	20-3	20-6	20-8	20-11	21-2	21-5
575	21-0	21-3	21-7	21-10	22-1	22-4	22-8	22-11	23-2	23-5
600	22-10	23-2	23-6	23-9	24-1	24-4	24-8	24-11	25-3	25-6
625	24-10	25-2	25-6	25-10	26-1	26-5	26-9	27-1	27-4	27-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.17

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.809	0.51	1992	0.51	2000*
25	0	0	0	0.481	0.31	1921	0.31	1934
30	0	0	0	0.481	0.32	1859	0.32	1877
40	0	0	0	0.481	0.35	1735	0.34	1761
50	0	0	0	0.481	0.37	1612	0.37	1646
60	0	0	0	0.481	0.4	1492	0.39	1531
70	0	0	0	0.481	0.44	1374	0.42	1418
80	0	0	0	0.481	0.48	1260	0.46	1306
90	0	0	0	0.481	0.52	1149	0.5	1197
100	0	0	0	0.481	0.58	1044	0.55	1092
110	0	0	0	0.481	0.64	945	0.61	992
120	0	0	0	0.481	0.7	855	0.67	898
130	0	0	0	0.481	0.78	773	0.74	812
167	0	0	0	0.481	1.08	557	1.02	589
212	0	0	0	0.481	1.43	422	1.36	442

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.809	2.02	2000	2.02	2000*
25	0	0	0	0.481	1.37	1755	1.36	1768
30	0	0	0	0.481	1.41	1702	1.4	1719
40	0	0	0	0.481	1.5	1601	1.48	1622
50	0	0	0	0.481	1.6	1503	1.57	1528
60	0	0	0	0.481	1.7	1411	1.67	1438
70	0	0	0	0.481	1.82	1324	1.78	1352
80	0	0	0	0.481	1.94	1243	1.89	1271
90	0	0	0	0.481	2.06	1167	2.01	1195
100	0	0	0	0.481	2.19	1098	2.14	1124
110	0	0	0	0.481	2.33	1034	2.27	1059
120	0	0	0	0.481	2.46	977	2.41	999
130	0	0	0	0.481	2.6	924	2.55	944
167	0	0	0	0.481	3.12	770	3.07	784
212	0	0	0	0.481	3.67	655	3.61	668

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.18

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.809	4.56	2000	4.56	2000*
25	0	0	0	0.481	3.46	1567	3.42	1583
30	0	0	0	0.481	3.54	1530	3.5	1548
40	0	0	0	0.481	3.71	1460	3.66	1479
50	0	0	0	0.481	3.88	1394	3.83	1414
60	0	0	0	0.481	4.06	1333	4	1353
70	0	0	0	0.481	4.24	1276	4.18	1296
80	0	0	0	0.481	4.43	1224	4.36	1242
90	0	0	0	0.481	4.61	1175	4.54	1193
100	0	0	0	0.481	4.8	1130	4.73	1146
110	0	0	0	0.481	4.98	1088	4.91	1103
120	0	0	0	0.481	5.16	1049	5.1	1063
130	0	0	0	0.481	5.35	1013	5.28	1026
167	0	0	0	0.481	6.01	901	5.96	910
212	0	0	0	0.481	6.74	805	6.66	814

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.809	8.1	2000	8.1	2000*
25	0	0	0	0.481	6.72	1433	6.66	1447
30	0	0	0	0.481	6.83	1410	6.77	1424
40	0	0	0	0.481	7.06	1365	6.98	1379
50	0	0	0	0.481	7.28	1323	7.2	1337
60	0	0	0	0.481	7.5	1284	7.43	1297
70	0	0	0	0.481	7.73	1247	7.65	1260
80	0	0	0	0.481	7.95	1212	7.87	1225
90	0	0	0	0.481	8.17	1179	8.09	1191
100	0	0	0	0.481	8.39	1149	8.31	1160
110	0	0	0	0.481	8.61	1120	8.53	1130
120	0	0	0	0.481	8.82	1093	8.74	1102
130	0	0	0	0.481	9.03	1067	8.96	1076
167	0	0	0	0.481	9.8	984	9.74	990
212	0	0	0	0.481	10.66	905	10.59	911

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.19

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.809	12.68	2000	12.68	2000*
25	0	0	0	0.481	11.14	1352	11.05	1363
30	0	0	0	0.481	11.26	1337	11.18	1347
40	0	0	0	0.481	11.52	1308	11.43	1318
50	0	0	0	0.481	11.77	1280	11.68	1290
60	0	0	0	0.481	12.01	1254	11.92	1264
70	0	0	0	0.481	12.26	1229	12.17	1238
80	0	0	0	0.481	12.5	1205	12.41	1214
90	0	0	0	0.481	12.75	1182	12.66	1191
100	0	0	0	0.481	12.99	1161	12.9	1168
110	0	0	0	0.481	13.22	1140	13.14	1147
120	0	0	0	0.481	13.46	1120	13.38	1127
130	0	0	0	0.481	13.69	1101	13.61	1108
167	0	0	0	0.481	14.54	1038	14.47	1042
212	0	0	0	0.481	15.5	974	15.42	978

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4
100	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
125	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11
150	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-2	1-3	1-4
175	0-11	1-0	1-1	1-1	1-2	1-4	1-5	1-6	1-8	1-10
200	1-2	1-3	1-4	1-6	1-7	1-8	1-10	2-0	2-2	2-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4
100	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
125	0-6	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0
150	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5
175	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-11
200	1-3	1-4	1-5	1-6	1-7	1-9	1-11	2-1	2-4	2-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7
125	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11
150	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-2	1-3
175	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-7	1-8	1-9
200	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-2	2-3
225	1-8	1-9	1-11	2-0	2-1	2-3	2-5	2-7	2-9	2-11
250	2-1	2-2	2-4	2-6	2-7	2-9	3-0	3-2	3-4	3-7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-7	0-7
125	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11
150	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4
175	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
200	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-1	2-2	2-4
225	1-8	1-9	1-11	2-0	2-2	2-4	2-5	2-7	2-9	2-11
250	2-1	2-2	2-4	2-6	2-8	2-10	3-0	3-3	3-5	3-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.22

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3
175	1-2	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-7	1-8
200	1-6	1-7	1-8	1-8	1-9	1-10	1-11	2-0	2-1	2-2
225	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-7	2-8	2-9
250	2-4	2-5	2-7	2-8	2-9	2-11	3-0	3-2	3-3	3-5
275	2-10	2-11	3-1	3-3	3-4	3-6	3-8	3-10	4-0	4-2
300	3-4	3-6	3-8	3-10	4-0	4-2	4-4	4-6	4-9	4-11
325	3-11	4-1	4-4	4-6	4-8	4-11	5-1	5-4	5-7	5-9
350	4-7	4-9	5-0	5-3	5-5	5-8	5-11	6-2	6-5	6-8
375	5-3	5-6	5-9	6-0	6-3	6-6	6-10	7-1	7-5	7-8

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
175	1-2	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-8
200	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3
225	1-11	2-0	2-1	2-2	2-3	2-5	2-6	2-7	2-8	2-10
250	2-4	2-5	2-7	2-8	2-10	2-11	3-1	3-2	3-4	3-5
275	2-10	3-0	3-1	3-3	3-5	3-7	3-9	3-10	4-0	4-2
300	3-4	3-6	3-9	3-11	4-1	4-3	4-5	4-7	4-10	5-0
325	4-0	4-2	4-4	4-7	4-9	5-0	5-2	5-5	5-8	5-10
350	4-7	4-10	5-1	5-3	5-6	5-9	6-0	6-3	6-6	6-9
375	5-3	5-6	5-10	6-1	6-4	6-8	6-11	7-2	7-6	7-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.23

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	1-8	1-8	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-2
225	2-1	2-2	2-3	2-3	2-4	2-5	2-6	2-7	2-8	2-8
250	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4
275	3-1	3-2	3-4	3-5	3-6	3-7	3-9	3-10	3-11	4-0
300	3-8	3-10	3-11	4-1	4-2	4-4	4-5	4-7	4-8	4-10
325	4-4	4-6	4-7	4-9	4-11	5-1	5-2	5-4	5-6	5-8
350	5-0	5-2	5-4	5-6	5-8	5-10	6-0	6-2	6-4	6-6
375	5-9	5-11	6-2	6-4	6-6	6-9	6-11	7-1	7-4	7-6
400	6-7	6-9	7-0	7-2	7-5	7-8	7-10	8-1	8-4	8-6
425	7-5	7-8	7-11	8-2	8-5	8-8	8-11	9-2	9-5	9-8
450	8-3	8-7	8-10	9-1	9-5	9-8	10-0	10-3	10-6	10-10
475	9-3	9-6	9-10	10-2	10-6	10-9	11-1	11-5	11-9	12-0
500	10-3	10-7	10-11	11-3	11-7	11-11	12-4	12-8	13-0	13-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	1-8	1-8	1-9	1-10	1-11	1-11	2-0	2-0	2-1	2-2
225	2-1	2-2	2-3	2-4	2-4	2-5	2-6	2-7	2-8	2-9
250	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4
275	3-1	3-3	3-4	3-5	3-7	3-8	3-9	3-10	4-0	4-1
300	3-9	3-10	4-0	4-1	4-3	4-4	4-6	4-7	4-9	4-10
325	4-4	4-6	4-8	4-10	4-11	5-1	5-3	5-5	5-6	5-8
350	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-5	6-7
375	5-10	6-0	6-2	6-5	6-7	6-9	7-0	7-2	7-4	7-7
400	6-7	6-10	7-1	7-3	7-6	7-9	7-11	8-2	8-5	8-7
425	7-6	7-9	8-0	8-3	8-6	8-9	9-0	9-3	9-6	9-9
450	8-4	8-8	8-11	9-3	9-6	9-9	10-1	10-4	10-7	10-11
475	9-4	9-8	9-11	10-3	10-7	10-11	11-3	11-6	11-10	12-2
500	10-4	10-8	11-0	11-5	11-9	12-1	12-5	12-9	13-1	13-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.24

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	2-9	2-10	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3
275	3-4	3-5	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
300	3-11	4-0	4-1	4-2	4-3	4-5	4-6	4-7	4-8	4-9
325	4-7	4-9	4-10	4-11	5-0	5-2	5-3	5-4	5-5	5-7
350	5-4	5-6	5-7	5-9	5-10	6-0	6-1	6-2	6-4	6-5
375	6-2	6-3	6-5	6-7	6-8	6-10	7-0	7-1	7-3	7-5
400	7-0	7-2	7-4	7-6	7-8	7-9	7-11	8-1	8-3	8-5
425	7-11	8-1	8-3	8-5	8-7	8-9	9-0	9-2	9-4	9-6
450	8-10	9-1	9-3	9-5	9-8	9-10	10-1	10-3	10-5	10-8
475	9-10	10-1	10-4	10-6	10-9	11-0	11-2	11-5	11-8	11-10
500	10-11	11-2	11-5	11-8	11-11	12-2	12-5	12-8	12-11	13-2
525	12-1	12-4	12-7	12-10	13-2	13-5	13-8	13-11	14-3	14-6
550	13-3	13-6	13-10	14-2	14-5	14-9	15-0	15-4	15-7	15-11
575	14-5	14-9	15-1	15-5	15-9	16-1	16-5	16-9	17-1	17-5
600	15-9	16-1	16-6	16-10	17-2	17-6	17-11	18-3	18-7	18-11
625	17-1	17-6	17-10	18-3	18-8	19-0	19-5	19-9	20-2	20-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	2-9	2-10	2-11	2-11	3-0	3-1	3-1	3-2	3-3	3-4
275	3-4	3-5	3-6	3-7	3-8	3-8	3-9	3-10	3-11	4-0
300	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9
325	4-8	4-9	4-10	5-0	5-1	5-2	5-3	5-5	5-6	5-7
350	5-5	5-6	5-8	5-9	5-11	6-0	6-1	6-3	6-4	6-6
375	6-2	6-4	6-6	6-7	6-9	6-11	7-0	7-2	7-4	7-5
400	7-1	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-6
425	7-11	8-2	8-4	8-6	8-8	8-10	9-0	9-2	9-5	9-7
450	8-11	9-1	9-4	9-6	9-9	9-11	10-2	10-4	10-6	10-9
475	9-11	10-2	10-5	10-7	10-10	11-1	11-3	11-6	11-9	11-11
500	11-0	11-3	11-6	11-9	12-0	12-3	12-6	12-9	13-0	13-3
525	12-2	12-5	12-8	13-0	13-3	13-6	13-9	14-1	14-4	14-7
550	13-4	13-8	13-11	14-3	14-6	14-10	15-2	15-5	15-9	16-0
575	14-7	14-11	15-3	15-7	15-11	16-3	16-7	16-10	17-2	17-6
600	15-10	16-3	16-7	16-11	17-4	17-8	18-0	18-4	18-9	19-1
625	17-2	17-7	18-0	18-5	18-9	19-2	19-7	19-11	20-4	20-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.25

Span = 100 ft

Design Condition Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Final Sag ft	Final Tension lb	Initial Sag ft	Initial Tension lb
0	0.50G	6	0	1.712	2.14	1000	2.14	1000*
0	0	0	0	0.481	1.76	341	1.74	347
30	0	0	0	0.481	1.98	304	1.96	308
40	0	0	0	0.481	2.05	294	2.02	297
50	0	0	0	0.481	2.11	285	2.09	288
60	0	0	0	0.481	2.18	277	2.16	279
70	0	0	0	0.481	2.24	269	2.22	271
80	0	0	0	0.481	2.3	262	2.29	263
90	0	0	0	0.481	2.36	255	2.35	257
100	0	0	0	0.481	2.42	249	2.4	251
110	0	0	0	0.481	2.48	243	2.46	245
120	0	0	0	0.481	2.53	238	2.51	240
130	0	0	0	0.481	2.58	233	2.56	236
167	0	0	0	0.481	2.76	218	2.74	220
212	0	0	0	0.481	2.97	203	2.95	205

* Design Condition

Span = 200 ft

Design Condition Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Final Sag ft	Final Tension lb	Initial Sag ft	Initial Tension lb
0	0.50G	6	0	1.712	8.63	1000	8.63	1000*
0	0	0	0	0.481	8.25	294	8.22	295
30	0	0	0	0.481	8.46	286	8.43	287
40	0	0	0	0.481	8.52	284	8.5	285
50	0	0	0	0.481	8.59	282	8.57	283
60	0	0	0	0.481	8.66	280	8.64	280
70	0	0	0	0.481	8.73	278	8.71	278
80	0	0	0	0.481	8.79	276	8.78	276
90	0	0	0	0.481	8.86	274	8.85	274
100	0	0	0	0.481	8.93	272	8.91	272
110	0	0	0	0.481	8.99	270	8.97	270
120	0	0	0	0.481	9.06	268	9.03	269
130	0	0	0	0.481	9.11	266	9.09	267
167	0	0	0	0.481	9.33	260	9.3	261
212	0	0	0	0.481	9.58	253	9.56	254

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.26

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.712	19.59	1000	19.59	1000*
0	0	0	0	0.481	19.21	286	19.19	287
30	0	0	0	0.481	19.42	283	19.4	284
40	0	0	0	0.481	19.49	282	19.47	283
50	0	0	0	0.481	19.56	281	19.54	282
60	0	0	0	0.481	19.63	280	19.61	281
70	0	0	0	0.481	19.7	279	19.68	280
80	0	0	0	0.481	19.77	279	19.75	279
90	0	0	0	0.481	19.83	278	19.82	278
100	0	0	0	0.481	19.9	277	19.88	277
110	0	0	0	0.481	19.97	276	19.95	276
120	0	0	0	0.481	20.03	275	20.01	275
130	0	0	0	0.481	20.09	274	20.07	274
167	0	0	0	0.481	20.32	271	20.29	272
212	0	0	0	0.481	20.59	268	20.56	268

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.712	35.32	1000	35.32	1000*
0	0	0	0	0.481	34.94	284	34.91	284
30	0	0	0	0.481	35.15	282	35.12	282
40	0	0	0	0.481	35.22	282	35.2	282
50	0	0	0	0.481	35.29	281	35.27	281
60	0	0	0	0.481	35.36	281	35.34	281
70	0	0	0	0.481	35.42	280	35.41	280
80	0	0	0	0.481	35.49	280	35.48	280
90	0	0	0	0.481	35.56	279	35.55	279
100	0	0	0	0.481	35.63	279	35.61	279
110	0	0	0	0.481	35.7	278	35.67	278
120	0	0	0	0.481	35.76	278	35.74	278
130	0	0	0	0.481	35.82	277	35.8	277
167	0	0	0	0.481	36.05	276	36.03	276
212	0	0	0	0.481	36.33	274	36.3	274

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.27

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.712	56.23	1000	56.23	1000*
0	0	0	0	0.481	55.86	283	55.83	283
30	0	0	0	0.481	56.06	282	56.04	282
40	0	0	0	0.481	56.13	281	56.11	281
50	0	0	0	0.481	56.2	281	56.18	281
60	0	0	0	0.481	56.27	281	56.25	281
70	0	0	0	0.481	56.34	280	56.32	280
80	0	0	0	0.481	56.41	280	56.39	280
90	0	0	0	0.481	56.47	280	56.46	280
100	0	0	0	0.481	56.54	279	56.53	280
110	0	0	0	0.481	56.61	279	56.59	279
120	0	0	0	0.481	56.68	279	56.65	279
130	0	0	0	0.481	56.74	279	56.71	279
167	0	0	0	0.481	56.97	278	56.94	278
212	0	0	0	0.481	57.25	276	57.22	277

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.28

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	1-1	1-1	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-5
100	1-11	1-11	2-0	2-1	2-2	2-3	2-3	2-4	2-5	2-5
125	2-11	3-1	3-2	3-3	3-4	3-6	3-7	3-8	3-9	3-10
150	4-3	4-5	4-7	4-9	4-10	5-0	5-2	5-3	5-5	5-6
175	5-9	6-0	6-2	6-5	6-7	6-10	7-0	7-2	7-4	7-6
200	7-7	7-10	8-1	8-5	8-8	8-11	9-2	9-5	9-8	9-10

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4	1-5
100	1-11	2-0	2-1	2-1	2-2	2-3	2-4	2-4	2-5	2-6
125	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9	3-10
150	4-4	4-5	4-7	4-9	4-11	5-1	5-2	5-4	5-5	5-7
175	5-10	6-1	6-3	6-6	6-8	6-10	7-1	7-3	7-5	7-7
200	7-8	7-11	8-2	8-6	8-9	9-0	9-3	9-6	9-8	9-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.29

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	2-1	2-1	2-1	2-2	2-2	2-2	2-2	2-2	2-3	2-3
125	3-3	3-3	3-4	3-4	3-4	3-5	3-5	3-5	3-6	3-6
150	4-8	4-9	4-9	4-10	4-10	4-11	4-11	5-0	5-0	5-0
175	6-5	6-5	6-6	6-7	6-7	6-8	6-9	6-9	6-10	6-10
200	8-4	8-5	8-6	8-7	8-8	8-9	8-9	8-10	8-11	9-0
225	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2	11-3	11-4
250	13-1	13-2	13-4	13-5	13-6	13-8	13-9	13-10	13-11	14-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	2-1	2-1	2-2	2-2	2-2	2-2	2-2	2-3	2-3	2-3
125	3-3	3-4	3-4	3-4	3-5	3-5	3-5	3-5	3-6	3-6
150	4-9	4-9	4-9	4-10	4-10	4-11	4-11	5-0	5-0	5-1
175	6-5	6-6	6-6	6-7	6-8	6-8	6-9	6-9	6-10	6-11
200	8-5	8-5	8-6	8-7	8-8	8-9	8-10	8-10	8-11	9-0
225	10-7	10-8	10-10	10-11	11-0	11-1	11-2	11-3	11-4	11-5
250	13-1	13-3	13-4	13-5	13-7	13-8	13-9	13-10	14-0	14-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.30

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	4-10	4-10	4-10	4-10	4-11	4-11	4-11	4-11	4-11	5-0
175	6-7	6-7	6-7	6-7	6-8	6-8	6-8	6-9	6-9	6-9
200	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-9	8-10	8-10
225	10-10	10-11	10-11	11-0	11-0	11-1	11-1	11-1	11-2	11-2
250	13-5	13-5	13-6	13-7	13-7	13-8	13-8	13-9	13-9	13-10
275	16-3	16-3	16-4	16-5	16-6	16-6	16-7	16-8	16-8	16-9
300	19-4	19-5	19-6	19-6	19-7	19-8	19-9	19-10	19-11	19-11
325	22-8	22-9	22-10	22-11	23-0	23-1	23-2	23-3	23-4	23-5
350	26-4	26-5	26-7	26-8	26-9	26-10	26-11	27-0	27-1	27-2
375	30-4	30-5	30-6	30-8	30-9	30-10	30-11	31-1	31-2	31-3

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	4-10	4-10	4-10	4-10	4-11	4-11	4-11	4-11	4-11	5-0
175	6-7	6-7	6-7	6-8	6-8	6-8	6-8	6-9	6-9	6-9
200	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-9	8-10	8-10
225	10-10	10-11	10-11	11-0	11-0	11-1	11-1	11-2	11-2	11-2
250	13-5	13-6	13-6	13-7	13-7	13-8	13-8	13-9	13-10	13-10
275	16-3	16-4	16-4	16-5	16-6	16-6	16-7	16-8	16-8	16-9
300	19-4	19-5	19-6	19-7	19-8	19-8	19-9	19-10	19-11	20-0
325	22-9	22-10	22-11	23-0	23-1	23-2	23-3	23-4	23-5	23-5
350	26-5	26-6	26-7	26-8	26-9	26-10	26-11	27-1	27-2	27-3
375	30-4	30-5	30-7	30-8	30-9	30-11	31-0	31-1	31-2	31-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.31

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	8-8	8-9	8-9	8-9	8-9	8-9	8-10	8-10	8-10	8-10
225	11-0	11-0	11-1	11-1	11-1	11-1	11-2	11-2	11-2	11-2
250	13-7	13-8	13-8	13-8	13-9	13-9	13-9	13-10	13-10	13-10
275	16-6	16-6	16-7	16-7	16-7	16-8	16-8	16-9	16-9	16-9
300	19-8	19-8	19-9	19-9	19-9	19-10	19-10	19-11	19-11	20-0
325	23-1	23-1	23-2	23-2	23-3	23-4	23-4	23-5	23-5	23-6
350	26-9	26-10	26-11	26-11	27-0	27-1	27-1	27-2	27-2	27-3
375	30-9	30-10	30-11	30-11	31-0	31-1	31-2	31-2	31-3	31-4
400	35-1	35-1	35-2	35-3	35-4	35-5	35-6	35-7	35-7	35-8
425	39-7	39-8	39-9	39-10	39-11	40-0	40-1	40-2	40-3	40-4
450	44-6	44-7	44-8	44-9	44-10	44-11	45-0	45-1	45-2	45-3
475	49-8	49-9	49-10	49-11	50-0	50-2	50-3	50-4	50-5	50-6
500	55-1	55-2	55-4	55-5	55-6	55-8	55-9	55-10	56-0	56-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	8-8	8-9	8-9	8-9	8-9	8-9	8-10	8-10	8-10	8-10
225	11-0	11-1	11-1	11-1	11-1	11-2	11-2	11-2	11-2	11-3
250	13-7	13-8	13-8	13-8	13-9	13-9	13-9	13-10	13-10	13-10
275	16-6	16-6	16-7	16-7	16-7	16-8	16-8	16-9	16-9	16-9
300	19-8	19-8	19-9	19-9	19-10	19-10	19-10	19-11	19-11	20-0
325	23-1	23-1	23-2	23-3	23-3	23-4	23-4	23-5	23-5	23-6
350	26-10	26-10	26-11	26-11	27-0	27-1	27-1	27-2	27-3	27-3
375	30-10	30-10	30-11	31-0	31-0	31-1	31-2	31-3	31-3	31-4
400	35-1	35-2	35-3	35-3	35-4	35-5	35-6	35-7	35-8	35-8
425	39-8	39-9	39-10	39-11	40-0	40-1	40-1	40-2	40-3	40-4
450	44-6	44-7	44-8	44-9	44-10	44-11	45-1	45-2	45-3	45-4
475	49-8	49-9	49-10	50-0	50-1	50-2	50-3	50-4	50-5	50-7
500	55-1	55-3	55-4	55-5	55-7	55-8	55-9	55-11	56-0	56-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.32

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	13-10	13-10	13-10	13-10	13-11	13-11	13-11	13-11	13-11	14-0
275	16-9	16-9	16-9	16-10	16-10	16-10	16-10	16-11	16-11	16-11
300	19-11	20-0	20-0	20-0	20-0	20-1	20-1	20-1	20-2	20-2
325	23-5	23-5	23-6	23-6	23-7	23-7	23-7	23-8	23-8	23-8
350	27-2	27-3	27-3	27-4	27-4	27-4	27-5	27-5	27-6	27-6
375	31-3	31-4	31-4	31-5	31-5	31-5	31-6	31-6	31-7	31-7
400	35-7	35-8	35-8	35-9	35-9	35-10	35-11	35-11	36-0	36-0
425	40-3	40-4	40-4	40-5	40-5	40-6	40-7	40-7	40-8	40-8
450	45-2	45-3	45-4	45-4	45-5	45-6	45-6	45-7	45-8	45-8
475	50-5	50-6	50-7	50-7	50-8	50-9	50-10	50-10	50-11	51-0
500	56-0	56-0	56-1	56-2	56-3	56-4	56-5	56-6	56-6	56-7
525	61-10	61-11	62-0	62-0	62-1	62-2	62-3	62-4	62-5	62-6
550	67-11	68-0	68-1	68-3	68-4	68-5	68-6	68-7	68-8	68-9
575	74-5	74-6	74-7	74-8	74-9	74-11	75-0	75-1	75-2	75-3
600	81-2	81-3	81-4	81-6	81-7	81-8	81-9	81-11	82-0	82-1
625	88-3	88-4	88-6	88-7	88-8	88-10	88-11	89-0	89-2	89-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	13-10	13-10	13-10	13-11	13-11	13-11	13-11	13-11	14-0	14-0
275	16-9	16-9	16-9	16-10	16-10	16-10	16-10	16-11	16-11	16-11
300	19-11	20-0	20-0	20-0	20-1	20-1	20-1	20-1	20-2	20-2
325	23-5	23-6	23-6	23-6	23-7	23-7	23-7	23-8	23-8	23-8
350	27-3	27-3	27-3	27-4	27-4	27-5	27-5	27-5	27-6	27-6
375	31-3	31-4	31-4	31-5	31-5	31-6	31-6	31-6	31-7	31-7
400	35-8	35-8	35-9	35-9	35-10	35-10	35-11	35-11	36-0	36-0
425	40-3	40-4	40-4	40-5	40-6	40-6	40-7	40-7	40-8	40-9
450	45-3	45-3	45-4	45-5	45-5	45-6	45-7	45-7	45-8	45-9
475	50-5	50-6	50-7	50-8	50-8	50-9	50-10	50-11	50-11	51-0
500	56-0	56-1	56-2	56-2	56-3	56-4	56-5	56-6	56-7	56-7
525	61-10	61-11	62-0	62-1	62-2	62-3	62-3	62-4	62-5	62-6
550	68-0	68-1	68-2	68-3	68-4	68-5	68-6	68-7	68-8	68-9
575	74-5	74-6	74-7	74-9	74-10	74-11	75-0	75-1	75-2	75-3
600	81-2	81-4	81-5	81-6	81-7	81-9	81-10	81-11	82-0	82-1
625	88-3	88-5	88-6	88-7	88-9	88-10	88-11	89-1	89-2	89-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.33

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.712	1.43	1500	1.43	1500*
0	0	0	0	0.481	0.72	830	0.7	858
30	0	0	0	0.481	0.97	621	0.93	645
40	0	0	0	0.481	1.06	569	1.02	590
50	0	0	0	0.481	1.15	525	1.11	543
60	0	0	0	0.481	1.23	487	1.2	503
70	0	0	0	0.481	1.32	455	1.28	468
80	0	0	0	0.481	1.41	428	1.37	439
90	0	0	0	0.481	1.49	404	1.46	413
100	0	0	0	0.481	1.57	383	1.54	391
110	0	0	0	0.481	1.65	365	1.62	372
120	0	0	0	0.481	1.73	348	1.69	357
130	0	0	0	0.481	1.8	335	1.76	343
167	0	0	0	0.481	2.03	296	1.99	302
212	0	0	0	0.481	2.29	263	2.25	267

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.712	5.73	1500	5.73	1500*
0	0	0	0	0.481	4.87	495	4.81	501
30	0	0	0	0.481	5.19	464	5.14	469
40	0	0	0	0.481	5.3	455	5.25	460
50	0	0	0	0.481	5.4	447	5.35	451
60	0	0	0	0.481	5.5	438	5.46	442
70	0	0	0	0.481	5.6	431	5.56	434
80	0	0	0	0.481	5.7	423	5.66	426
90	0	0	0	0.481	5.8	416	5.76	419
100	0	0	0	0.481	5.9	409	5.86	412
110	0	0	0	0.481	5.99	403	5.96	405
120	0	0	0	0.481	6.08	397	6.04	399
130	0	0	0	0.481	6.18	391	6.13	394
167	0	0	0	0.481	6.48	373	6.43	376
212	0	0	0	0.481	6.83	354	6.78	356

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.34

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.712	12.94	1500	12.94	1500*
0	0	0	0	0.481	12.08	451	12.02	453
30	0	0	0	0.481	12.4	439	12.34	441
40	0	0	0	0.481	12.5	436	12.45	438
50	0	0	0	0.481	12.61	432	12.56	434
60	0	0	0	0.481	12.71	429	12.66	430
70	0	0	0	0.481	12.81	425	12.77	427
80	0	0	0	0.481	12.91	422	12.87	424
90	0	0	0	0.481	13.01	419	12.97	420
100	0	0	0	0.481	13.11	416	13.08	417
110	0	0	0	0.481	13.21	413	13.18	414
120	0	0	0	0.481	13.31	410	13.27	411
130	0	0	0	0.481	13.41	407	13.36	408
167	0	0	0	0.481	13.74	397	13.69	399
212	0	0	0	0.481	14.12	387	14.07	388

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.712	23.14	1500	23.14	1500*
0	0	0	0	0.481	22.28	437	22.22	438
30	0	0	0	0.481	22.6	431	22.54	432
40	0	0	0	0.481	22.7	429	22.65	430
50	0	0	0	0.481	22.81	427	22.75	428
60	0	0	0	0.481	22.91	425	22.86	426
70	0	0	0	0.481	23.01	424	22.97	424
80	0	0	0	0.481	23.11	422	23.07	423
90	0	0	0	0.481	23.22	420	23.17	421
100	0	0	0	0.481	23.32	418	23.28	419
110	0	0	0	0.481	23.42	416	23.38	417
120	0	0	0	0.481	23.52	415	23.48	415
130	0	0	0	0.481	23.62	413	23.57	414
167	0	0	0	0.481	23.96	407	23.91	408
212	0	0	0	0.481	24.36	401	24.31	402

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.35

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.712	36.44	1500	36.44	1500*
0	0	0	0	0.481	35.58	431	35.52	432
30	0	0	0	0.481	35.89	427	35.84	428
40	0	0	0	0.481	36	426	35.95	427
50	0	0	0	0.481	36.1	425	36.05	426
60	0	0	0	0.481	36.2	424	36.16	424
70	0	0	0	0.481	36.31	423	36.26	423
80	0	0	0	0.481	36.41	422	36.37	422
90	0	0	0	0.481	36.51	420	36.47	421
100	0	0	0	0.481	36.61	419	36.58	420
110	0	0	0	0.481	36.72	418	36.68	419
120	0	0	0	0.481	36.82	417	36.78	418
130	0	0	0	0.481	36.92	416	36.87	417
167	0	0	0	0.481	37.26	412	37.21	413
212	0	0	0	0.481	37.67	408	37.62	409

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.36

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-10	0-11
100	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
125	1-4	1-5	1-7	1-9	1-10	2-0	2-2	2-3	2-5	2-6
150	1-11	2-1	2-4	2-6	2-8	2-11	3-1	3-3	3-6	3-8
175	2-7	2-10	3-1	3-5	3-8	3-11	4-2	4-6	4-9	5-0
200	3-5	3-9	4-1	4-5	4-9	5-2	5-6	5-10	6-2	6-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	0-11
100	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
125	1-5	1-6	1-8	1-9	1-11	2-1	2-2	2-4	2-5	2-7
150	2-0	2-2	2-5	2-7	2-9	3-0	3-2	3-4	3-6	3-9
175	2-8	3-0	3-3	3-6	3-9	4-1	4-4	4-7	4-10	5-1
200	3-6	3-11	4-3	4-7	4-11	5-3	5-8	6-0	6-4	6-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.37

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-3	1-3	1-4	1-4	1-4	1-5	1-5	1-5	1-6	1-6
125	2-0	2-0	2-1	2-1	2-2	2-2	2-3	2-3	2-3	2-4
150	2-10	2-11	2-11	3-0	3-1	3-2	3-2	3-3	3-4	3-4
175	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7
200	5-0	5-2	5-3	5-4	5-5	5-7	5-8	5-9	5-10	5-11
225	6-4	6-6	6-8	6-9	6-11	7-0	7-2	7-4	7-5	7-6
250	7-10	8-0	8-2	8-4	8-6	8-8	8-10	9-0	9-2	9-4

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-3	1-4	1-4	1-4	1-4	1-5	1-5	1-5	1-6	1-6
125	2-0	2-0	2-1	2-1	2-2	2-2	2-3	2-3	2-4	2-4
150	2-10	2-11	3-0	3-0	3-1	3-2	3-2	3-3	3-4	3-4
175	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-6	4-7
200	5-1	5-2	5-4	5-5	5-6	5-7	5-8	5-10	5-11	6-0
225	6-5	6-7	6-8	6-10	7-0	7-1	7-3	7-4	7-6	7-7
250	7-11	8-1	8-3	8-5	8-7	8-9	8-11	9-1	9-3	9-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.38

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	3-1	3-1	3-1	3-2	3-2	3-2	3-3	3-3	3-3	3-3
175	4-2	4-2	4-3	4-3	4-4	4-4	4-4	4-5	4-5	4-6
200	5-5	5-6	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-10
225	6-11	6-11	7-0	7-1	7-1	7-2	7-3	7-3	7-4	7-5
250	8-6	8-7	8-8	8-9	8-9	8-10	8-11	9-0	9-1	9-2
275	10-3	10-4	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1
300	12-3	12-4	12-5	12-7	12-8	12-9	12-10	13-0	13-1	13-2
325	14-4	14-6	14-7	14-9	14-10	15-0	15-1	15-3	15-4	15-6
350	16-8	16-10	17-0	17-1	17-3	17-5	17-6	17-8	17-10	17-11
375	19-2	19-4	19-6	19-8	19-10	20-0	20-2	20-4	20-6	20-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	3-1	3-1	3-1	3-2	3-2	3-2	3-3	3-3	3-3	3-4
175	4-2	4-3	4-3	4-3	4-4	4-4	4-5	4-5	4-5	4-6
200	5-5	5-6	5-7	5-7	5-8	5-8	5-9	5-9	5-10	5-10
225	6-11	7-0	7-0	7-1	7-2	7-2	7-3	7-4	7-4	7-5
250	8-6	8-7	8-8	8-9	8-10	8-11	9-0	9-0	9-1	9-2
275	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1
300	12-4	12-5	12-6	12-7	12-9	12-10	12-11	13-0	13-1	13-3
325	14-5	14-7	14-8	14-10	14-11	15-1	15-2	15-3	15-5	15-6
350	16-9	16-11	17-0	17-2	17-4	17-5	17-7	17-9	17-10	18-0
375	19-3	19-5	19-7	19-9	19-11	20-1	20-2	20-4	20-6	20-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.39

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	5-7	5-7	5-8	5-8	5-8	5-9	5-9	5-9	5-10	5-10
225	7-1	7-1	7-2	7-2	7-3	7-3	7-3	7-4	7-4	7-5
250	8-9	8-9	8-10	8-10	8-11	8-11	9-0	9-0	9-1	9-1
275	10-7	10-8	10-8	10-9	10-9	10-10	10-11	10-11	11-0	11-0
300	12-7	12-8	12-9	12-9	12-10	12-11	12-11	13-0	13-1	13-2
325	14-9	14-10	14-11	15-0	15-1	15-2	15-2	15-3	15-4	15-5
350	17-2	17-3	17-4	17-5	17-6	17-7	17-8	17-9	17-10	17-11
375	19-9	19-10	19-11	20-0	20-1	20-2	20-3	20-4	20-5	20-6
400	22-5	22-7	22-8	22-9	22-10	23-0	23-1	23-2	23-3	23-5
425	25-4	25-6	25-7	25-8	25-10	25-11	26-1	26-2	26-4	26-5
450	28-5	28-7	28-8	28-10	29-0	29-1	29-3	29-4	29-6	29-8
475	31-8	31-10	32-0	32-2	32-4	32-5	32-7	32-9	32-11	33-0
500	35-2	35-4	35-6	35-8	35-10	36-0	36-2	36-4	36-6	36-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	5-7	5-8	5-8	5-8	5-9	5-9	5-9	5-9	5-10	5-10
225	7-1	7-2	7-2	7-2	7-3	7-3	7-3	7-4	7-4	7-5
250	8-9	8-10	8-10	8-11	8-11	9-0	9-0	9-1	9-1	9-1
275	10-7	10-8	10-8	10-9	10-10	10-10	10-11	10-11	11-0	11-1
300	12-8	12-8	12-9	12-10	12-10	12-11	13-0	13-0	13-1	13-2
325	14-10	14-11	15-0	15-0	15-1	15-2	15-3	15-4	15-4	15-5
350	17-2	17-3	17-4	17-5	17-6	17-7	17-8	17-9	17-10	17-11
375	19-9	19-10	19-11	20-0	20-1	20-3	20-4	20-5	20-6	20-7
400	22-6	22-7	22-8	22-10	22-11	23-0	23-1	23-3	23-4	23-5
425	25-5	25-6	25-8	25-9	25-11	26-0	26-1	26-3	26-4	26-5
450	28-6	28-8	28-9	28-11	29-0	29-2	29-3	29-5	29-7	29-8
475	31-9	31-11	32-1	32-3	32-4	32-6	32-8	32-10	32-11	33-1
500	35-3	35-5	35-7	35-9	35-11	36-1	36-2	36-4	36-6	36-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.40

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	8-11	8-11	8-11	9-0	9-0	9-0	9-1	9-1	9-1	9-1
275	10-9	10-9	10-10	10-10	10-11	10-11	10-11	11-0	11-0	11-0
300	12-10	12-10	12-11	12-11	13-0	13-0	13-0	13-1	13-1	13-2
325	15-0	15-1	15-2	15-2	15-3	15-3	15-4	15-4	15-5	15-5
350	17-5	17-6	17-7	17-7	17-8	17-8	17-9	17-10	17-10	17-11
375	20-0	20-1	20-2	20-3	20-3	20-4	20-5	20-5	20-6	20-7
400	22-10	22-11	22-11	23-0	23-1	23-2	23-3	23-3	23-4	23-5
425	25-9	25-10	25-11	26-0	26-1	26-2	26-3	26-4	26-4	26-5
450	28-11	29-0	29-1	29-2	29-3	29-4	29-5	29-6	29-7	29-8
475	32-3	32-4	32-5	32-6	32-7	32-8	32-10	32-11	33-0	33-1
500	35-9	35-10	35-11	36-1	36-2	36-3	36-4	36-6	36-7	36-8
525	39-5	39-6	39-8	39-9	39-11	40-0	40-1	40-3	40-4	40-6
550	43-4	43-5	43-7	43-8	43-10	43-11	44-1	44-2	44-4	44-5
575	47-4	47-6	47-8	47-9	47-11	48-1	48-2	48-4	48-6	48-7
600	51-7	51-9	51-11	52-1	52-3	52-5	52-6	52-8	52-10	53-0
625	56-1	56-3	56-5	56-7	56-9	56-11	57-1	57-3	57-5	57-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	8-11	8-11	8-11	9-0	9-0	9-0	9-1	9-1	9-1	9-2
275	10-9	10-10	10-10	10-10	10-11	10-11	11-0	11-0	11-0	11-1
300	12-10	12-10	12-11	12-11	13-0	13-0	13-1	13-1	13-1	13-2
325	15-1	15-1	15-2	15-2	15-3	15-3	15-4	15-4	15-5	15-5
350	17-6	17-6	17-7	17-8	17-8	17-9	17-9	17-10	17-11	17-11
375	20-1	20-2	20-2	20-3	20-4	20-4	20-5	20-6	20-6	20-7
400	22-10	22-11	23-0	23-1	23-1	23-2	23-3	23-4	23-4	23-5
425	25-10	25-11	26-0	26-0	26-1	26-2	26-3	26-4	26-5	26-6
450	28-11	29-0	29-1	29-2	29-3	29-4	29-5	29-6	29-7	29-8
475	32-3	32-4	32-6	32-7	32-8	32-9	32-10	32-11	33-0	33-1
500	35-9	35-11	36-0	36-1	36-2	36-4	36-5	36-6	36-7	36-9
525	39-6	39-7	39-9	39-10	39-11	40-1	40-2	40-3	40-5	40-6
550	43-4	43-6	43-7	43-9	43-10	44-0	44-1	44-3	44-4	44-6
575	47-5	47-7	47-9	47-10	48-0	48-1	48-3	48-5	48-6	48-8
600	51-8	51-10	52-0	52-2	52-4	52-5	52-7	52-9	52-11	53-0
625	56-2	56-4	56-6	56-8	56-9	56-11	57-1	57-3	57-5	57-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.41

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.712	1.07	2000	1.07	2000*
0	0	0	0	0.481	0.39	1558	0.38	1587
30	0	0	0	0.481	0.5	1210	0.48	1256
40	0	0	0	0.481	0.55	1101	0.52	1151
50	0	0	0	0.481	0.6	999	0.57	1050
60	0	0	0	0.481	0.67	904	0.63	954
70	0	0	0	0.481	0.74	817	0.7	864
80	0	0	0	0.481	0.81	739	0.77	783
90	0	0	0	0.481	0.9	671	0.85	710
100	0	0	0	0.481	0.98	612	0.93	646
110	0	0	0	0.481	1.07	562	1.02	590
120	0	0	0	0.481	1.16	519	1.11	543
130	0	0	0	0.481	1.25	482	1.19	504
167	0	0	0	0.481	1.53	394	1.47	409
212	0	0	0	0.481	1.84	327	1.78	338

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.712	4.29	2000	4.29	2000*
0	0	0	0	0.481	2.83	851	2.74	878
30	0	0	0	0.481	3.25	741	3.16	762
40	0	0	0	0.481	3.39	711	3.3	730
50	0	0	0	0.481	3.52	684	3.43	701
60	0	0	0	0.481	3.65	659	3.57	675
70	0	0	0	0.481	3.79	636	3.7	650
80	0	0	0	0.481	3.92	615	3.83	628
90	0	0	0	0.481	4.04	596	3.96	608
100	0	0	0	0.481	4.17	578	4.09	589
110	0	0	0	0.481	4.29	562	4.22	571
120	0	0	0	0.481	4.41	547	4.34	555
130	0	0	0	0.481	4.53	532	4.46	540
167	0	0	0	0.481	4.91	491	4.84	498
212	0	0	0	0.481	5.35	451	5.28	457

* Design Condition

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SHEET 42 OF 215

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.42

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.712	9.67	2000	9.67	2000*
0	0	0	0	0.481	8.15	666	8.04	675
30	0	0	0	0.481	8.58	633	8.48	640
40	0	0	0	0.481	8.72	622	8.63	629
50	0	0	0	0.481	8.87	613	8.77	619
60	0	0	0	0.481	9	603	8.91	609
70	0	0	0	0.481	9.14	594	9.05	600
80	0	0	0	0.481	9.28	586	9.19	591
90	0	0	0	0.481	9.41	577	9.33	582
100	0	0	0	0.481	9.54	569	9.46	574
110	0	0	0	0.481	9.67	562	9.6	566
120	0	0	0	0.481	9.8	554	9.73	559
130	0	0	0	0.481	9.93	547	9.86	551
167	0	0	0	0.481	10.36	525	10.28	529
212	0	0	0	0.481	10.85	501	10.78	505

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.712	17.25	2000	17.25	2000*
0	0	0	0	0.481	15.73	616	15.62	620
30	0	0	0	0.481	16.15	599	16.05	603
40	0	0	0	0.481	16.3	594	16.19	598
50	0	0	0	0.481	16.43	589	16.34	593
60	0	0	0	0.481	16.57	584	16.48	588
70	0	0	0	0.481	16.71	580	16.62	583
80	0	0	0	0.481	16.85	575	16.76	578
90	0	0	0	0.481	16.98	571	16.9	573
100	0	0	0	0.481	17.12	566	17.04	569
110	0	0	0	0.481	17.25	562	17.17	564
120	0	0	0	0.481	17.39	558	17.31	560
130	0	0	0	0.481	17.52	553	17.45	556
167	0	0	0	0.481	17.97	540	17.89	542
212	0	0	0	0.481	18.49	525	18.41	527

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.43

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.712	27.07	2000	27.07	2000*
0	0	0	0	0.481	25.55	595	25.44	597
30	0	0	0	0.481	25.97	585	25.87	587
40	0	0	0	0.481	26.11	582	26.01	584
50	0	0	0	0.481	26.25	579	26.15	581
60	0	0	0	0.481	26.39	576	26.29	578
70	0	0	0	0.481	26.53	573	26.43	575
80	0	0	0	0.481	26.66	570	26.57	572
90	0	0	0	0.481	26.8	567	26.71	569
100	0	0	0	0.481	26.94	565	26.85	566
110	0	0	0	0.481	27.07	562	26.99	563
120	0	0	0	0.481	27.21	559	27.13	561
130	0	0	0	0.481	27.34	556	27.27	558
167	0	0	0	0.481	27.8	547	27.72	549
212	0	0	0	0.481	28.34	537	28.26	539

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.44

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
100	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0
125	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-7
150	1-0	1-1	1-2	1-3	1-5	1-7	1-9	1-11	2-1	2-4
175	1-4	1-6	1-7	1-9	1-11	2-2	2-4	2-7	2-10	3-1
200	1-9	1-11	2-1	2-4	2-6	2-9	3-1	3-5	3-9	4-1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-7
100	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1
125	0-9	0-9	0-10	0-11	1-0	1-2	1-3	1-5	1-6	1-8
150	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-0	2-3	2-5
175	1-5	1-6	1-8	1-10	2-0	2-3	2-6	2-9	3-0	3-3
200	1-10	2-0	2-2	2-5	2-8	2-11	3-3	3-7	3-11	4-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.45

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-9	0-9	0-10	0-10	0-11	0-11	0-11	1-0	1-0	1-1
125	1-2	1-3	1-3	1-4	1-5	1-5	1-6	1-7	1-7	1-8
150	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-4
175	2-4	2-5	2-6	2-8	2-9	2-10	2-11	3-0	3-2	3-3
200	3-0	3-2	3-4	3-5	3-7	3-8	3-10	4-0	4-1	4-3
225	3-10	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-2	5-4
250	4-9	4-11	5-2	5-4	5-7	5-9	6-0	6-2	6-5	6-7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-9	0-10	0-10	0-11	0-11	0-11	1-0	1-0	1-0	1-1
125	1-3	1-3	1-4	1-5	1-5	1-6	1-6	1-7	1-8	1-8
150	1-9	1-10	1-11	2-0	2-1	2-2	2-2	2-3	2-4	2-5
175	2-5	2-6	2-7	2-8	2-10	2-11	3-0	3-1	3-2	3-3
200	3-1	3-3	3-5	3-6	3-8	3-9	3-11	4-1	4-2	4-3
225	3-11	4-1	4-3	4-5	4-8	4-10	4-11	5-1	5-3	5-5
250	4-10	5-1	5-4	5-6	5-9	5-11	6-1	6-4	6-6	6-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.46

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-1	2-1	2-2	2-2	2-3	2-3	2-4	2-4	2-4	2-5
175	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-3	3-3
200	3-8	3-9	3-10	3-11	3-11	4-0	4-1	4-2	4-2	4-3
225	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5
250	5-9	5-11	6-0	6-1	6-2	6-3	6-5	6-6	6-7	6-8
275	7-0	7-2	7-3	7-4	7-6	7-7	7-9	7-10	7-11	8-1
300	8-4	8-6	8-8	8-9	8-11	9-1	9-2	9-4	9-6	9-7
325	9-9	9-11	10-2	10-4	10-6	10-7	10-9	10-11	11-1	11-3
350	11-4	11-7	11-9	11-11	12-2	12-4	12-6	12-8	12-11	13-1
375	13-0	13-3	13-6	13-9	13-11	14-2	14-4	14-7	14-10	15-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-1	2-2	2-2	2-3	2-3	2-3	2-4	2-4	2-5	2-5
175	2-10	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3
200	3-9	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-3	4-4
225	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-3	5-4	5-5
250	5-10	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-9
275	7-1	7-3	7-4	7-5	7-7	7-8	7-10	7-11	8-0	8-2
300	8-5	8-7	8-9	8-10	9-0	9-2	9-3	9-5	9-7	9-8
325	9-11	10-1	10-3	10-5	10-7	10-9	10-11	11-1	11-2	11-4
350	11-6	11-8	11-11	12-1	12-3	12-5	12-8	12-10	13-0	13-2
375	13-2	13-5	13-8	13-10	14-1	14-4	14-6	14-9	14-11	15-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.47

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-3	4-3	4-3
225	5-0	5-1	5-1	5-2	5-2	5-3	5-4	5-4	5-5	5-5
250	6-2	6-3	6-4	6-4	6-5	6-6	6-6	6-7	6-8	6-8
275	7-6	7-7	7-8	7-9	7-9	7-10	7-11	8-0	8-1	8-1
300	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6	9-7	9-8
325	10-6	10-7	10-8	10-9	10-10	11-0	11-1	11-2	11-3	11-4
350	12-2	12-3	12-5	12-6	12-7	12-9	12-10	12-11	13-0	13-2
375	14-0	14-1	14-3	14-4	14-6	14-7	14-9	14-10	15-0	15-1
400	15-11	16-1	16-2	16-4	16-6	16-7	16-9	16-11	17-0	17-2
425	18-0	18-2	18-3	18-5	18-7	18-9	18-11	19-1	19-3	19-5
450	20-2	20-4	20-6	20-8	20-10	21-1	21-3	21-5	21-7	21-9
475	22-5	22-8	22-10	23-1	23-3	23-5	23-8	23-10	24-1	24-3
500	24-11	25-1	25-4	25-7	25-9	26-0	26-3	26-5	26-8	26-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	4-0	4-0	4-1	4-1	4-2	4-2	4-2	4-3	4-3	4-4
225	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-5	5-5
250	6-3	6-4	6-4	6-5	6-6	6-6	6-7	6-7	6-8	6-9
275	7-7	7-8	7-8	7-9	7-10	7-11	7-11	8-0	8-1	8-2
300	9-0	9-1	9-2	9-3	9-4	9-5	9-6	9-7	9-7	9-8
325	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2	11-3	11-5
350	12-3	12-4	12-6	12-7	12-8	12-9	12-11	13-0	13-1	13-2
375	14-1	14-2	14-4	14-5	14-7	14-8	14-10	14-11	15-0	15-2
400	16-0	16-2	16-4	16-5	16-7	16-9	16-10	17-0	17-1	17-3
425	18-1	18-3	18-5	18-7	18-9	18-10	19-0	19-2	19-4	19-6
450	20-3	20-5	20-8	20-10	21-0	21-2	21-4	21-6	21-8	21-10
475	22-7	22-10	23-0	23-2	23-5	23-7	23-9	24-0	24-2	24-4
500	25-1	25-3	25-6	25-9	25-11	26-2	26-4	26-7	26-9	27-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.48

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	6-5	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-8	6-9
275	7-9	7-10	7-10	7-11	7-11	8-0	8-0	8-1	8-1	8-2
300	9-3	9-3	9-4	9-5	9-5	9-6	9-7	9-7	9-8	9-8
325	10-10	10-11	11-0	11-0	11-1	11-2	11-2	11-3	11-4	11-5
350	12-7	12-8	12-9	12-9	12-10	12-11	13-0	13-1	13-2	13-2
375	14-5	14-6	14-7	14-8	14-9	14-10	14-11	15-0	15-1	15-2
400	16-5	16-6	16-8	16-9	16-10	16-11	17-0	17-1	17-2	17-3
425	18-7	18-8	18-9	18-11	19-0	19-1	19-2	19-3	19-5	19-6
450	20-10	20-11	21-1	21-2	21-3	21-5	21-6	21-7	21-9	21-10
475	23-3	23-4	23-6	23-7	23-9	23-10	24-0	24-1	24-3	24-4
500	25-9	25-10	26-0	26-2	26-4	26-5	26-7	26-9	26-10	27-0
525	28-4	28-6	28-8	28-10	29-0	29-2	29-4	29-6	29-7	29-9
550	31-2	31-4	31-6	31-8	31-10	32-0	32-2	32-4	32-6	32-8
575	34-1	34-3	34-5	34-8	34-10	35-0	35-2	35-4	35-7	35-9
600	37-1	37-4	37-6	37-9	37-11	38-2	38-4	38-6	38-9	38-11
625	40-3	40-6	40-9	40-11	41-2	41-5	41-7	41-10	42-1	42-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	6-5	6-6	6-6	6-7	6-7	6-7	6-8	6-8	6-9	6-9
275	7-10	7-10	7-11	7-11	8-0	8-0	8-1	8-1	8-2	8-2
300	9-3	9-4	9-5	9-5	9-6	9-6	9-7	9-7	9-8	9-9
325	10-11	10-11	11-0	11-1	11-2	11-2	11-3	11-4	11-4	11-5
350	12-8	12-8	12-9	12-10	12-11	13-0	13-0	13-1	13-2	13-3
375	14-6	14-7	14-8	14-9	14-10	14-11	15-0	15-1	15-2	15-2
400	16-6	16-7	16-8	16-9	16-10	16-11	17-1	17-2	17-3	17-4
425	18-8	18-9	18-10	18-11	19-1	19-2	19-3	19-4	19-5	19-6
450	20-11	21-0	21-2	21-3	21-4	21-6	21-7	21-8	21-10	21-11
475	23-4	23-5	23-7	23-8	23-10	23-11	24-1	24-2	24-4	24-5
500	25-10	26-0	26-1	26-3	26-5	26-6	26-8	26-10	26-11	27-1
525	28-6	28-8	28-10	28-11	29-1	29-3	29-5	29-7	29-9	29-10
550	31-3	31-5	31-7	31-9	31-11	32-1	32-3	32-5	32-7	32-9
575	34-2	34-5	34-7	34-9	34-11	35-1	35-4	35-6	35-8	35-10
600	37-3	37-5	37-8	37-10	38-1	38-3	38-6	38-8	38-10	39-1
625	40-5	40-8	40-11	41-1	41-4	41-6	41-9	42-0	42-2	42-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.49

Span = 100 ft

Design Condition Cond.	Ice	Wind	K	Weight	Final Sag	Final Tension	Initial Sag	Initial Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.182	5.29	1000	5.29	1000*
0	0	0	0	0.481	5.09	119	5.08	120
30	0	0	0	0.481	5.18	117	5.17	118
40	0	0	0	0.481	5.21	117	5.2	117
50	0	0	0	0.481	5.24	116	5.22	116
60	0	0	0	0.481	5.26	115	5.25	116
70	0	0	0	0.481	5.29	115	5.28	115
80	0	0	0	0.481	5.32	114	5.31	115
90	0	0	0	0.481	5.35	114	5.34	114
100	0	0	0	0.481	5.38	113	5.36	113
110	0	0	0	0.481	5.4	113	5.39	113
120	0	0	0	0.481	5.43	112	5.41	112
130	0	0	0	0.481	5.45	112	5.44	112
167	0	0	0	0.481	5.54	110	5.53	110
212	0	0	0	0.481	5.65	108	5.64	108

* Design Condition

Span = 200 ft

Design Condition Cond.	Ice	Wind	K	Weight	Final Sag	Final Tension	Initial Sag	Initial Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.182	21.92	1000	21.92	1000*
0	0	0	0	0.481	21.73	116	21.71	116
30	0	0	0	0.481	21.81	116	21.8	116
40	0	0	0	0.481	21.84	115	21.83	115
50	0	0	0	0.481	21.87	115	21.86	115
60	0	0	0	0.481	21.9	115	21.89	115
70	0	0	0	0.481	21.93	115	21.92	115
80	0	0	0	0.481	21.95	115	21.94	115
90	0	0	0	0.481	21.98	115	21.97	115
100	0	0	0	0.481	22.01	115	21.99	115
110	0	0	0	0.481	22.03	114	22.02	115
120	0	0	0	0.481	22.06	114	22.05	114
130	0	0	0	0.481	22.09	114	22.07	114
167	0	0	0	0.481	22.18	114	22.16	114
212	0	0	0	0.481	22.29	113	22.28	113

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.50

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.182	52.97	1000	52.97	1000*
0	0	0	0	0.481	52.78	115	52.77	115
30	0	0	0	0.481	52.86	115	52.85	115
40	0	0	0	0.481	52.89	115	52.88	115
50	0	0	0	0.481	52.92	115	52.91	115
60	0	0	0	0.481	52.95	115	52.94	115
70	0	0	0	0.481	52.98	115	52.97	115
80	0	0	0	0.481	53	115	52.99	115
90	0	0	0	0.481	53.03	115	53.02	115
100	0	0	0	0.481	53.06	115	53.04	115
110	0	0	0	0.481	53.08	115	53.07	115
120	0	0	0	0.481	53.11	115	53.09	115
130	0	0	0	0.481	53.14	115	53.12	115
167	0	0	0	0.481	53.23	115	53.21	115
212	0	0	0	0.481	53.34	114	53.33	114

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.182	108.86	1000	108.86	1000*
0	0	0	0	0.481	108.68	115	108.66	115
30	0	0	0	0.481	108.76	115	108.75	115
40	0	0	0	0.481	108.78	115	108.77	115
50	0	0	0	0.481	108.81	115	108.80	115
60	0	0	0	0.481	108.84	115	108.83	115
70	0	0	0	0.481	108.87	115	108.86	115
80	0	0	0	0.481	108.89	115	108.88	115
90	0	0	0	0.481	108.92	115	108.91	115
100	0	0	0	0.481	108.95	115	108.93	115
110	0	0	0	0.481	108.97	115	108.96	115
120	0	0	0	0.481	109.00	115	108.98	115
130	0	0	0	0.481	109.02	115	109.01	115
167	0	0	0	0.481	109.11	115	109.10	115
212	0	0	0	0.481	109.22	115	109.21	115

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.51

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	2-11	2-11	2-11	2-11	2-11	3-0	3-0	3-0	3-0	3-0
100	5-2	5-2	5-2	5-3	5-3	5-3	5-4	5-4	5-4	5-5
125	8-1	8-1	8-2	8-2	8-3	8-3	8-4	8-4	8-5	8-5
150	11-7	11-8	11-9	11-10	11-11	11-11	12-0	12-1	12-1	12-2
175	15-10	15-11	16-0	16-1	16-3	16-4	16-5	16-6	16-7	16-7
200	20-9	20-11	21-0	21-2	21-3	21-4	21-6	21-7	21-8	21-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	2-11	2-11	2-11	2-11	2-11	3-0	3-0	3-0	3-0	3-0
100	5-2	5-2	5-2	5-3	5-3	5-4	5-4	5-4	5-5	5-5
125	8-1	8-1	8-2	8-2	8-3	8-3	8-4	8-4	8-5	8-5
150	11-8	11-8	11-9	11-10	11-11	12-0	12-0	12-1	12-2	12-3
175	15-11	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8
200	20-10	20-11	21-1	21-2	21-3	21-5	21-6	21-8	21-9	21-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.52

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5
125	8-5	8-5	8-5	8-6	8-6	8-6	8-6	8-6	8-6	8-6
150	12-2	12-2	12-2	12-3	12-3	12-3	12-3	12-3	12-3	12-4
175	16-7	16-8	16-8	16-8	16-8	16-9	16-9	16-9	16-9	16-10
200	21-9	21-10	21-10	21-10	21-11	21-11	21-11	22-0	22-0	22-0
225	27-8	27-8	27-9	27-9	27-10	27-10	27-11	27-11	27-11	28-0
250	34-4	34-4	34-5	34-5	34-6	34-7	34-7	34-8	34-8	34-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5
125	8-5	8-5	8-5	8-6	8-6	8-6	8-6	8-6	8-6	8-6
150	12-2	12-2	12-2	12-3	12-3	12-3	12-3	12-3	12-4	12-4
175	16-7	16-8	16-8	16-8	16-8	16-9	16-9	16-9	16-9	16-10
200	21-9	21-10	21-10	21-10	21-11	21-11	21-11	22-0	22-0	22-0
225	27-8	27-9	27-9	27-10	27-10	27-10	27-11	27-11	28-0	28-0
250	34-4	34-5	34-5	34-6	34-6	34-7	34-7	34-8	34-8	34-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.53

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	12-10	12-10	12-10	12-10	12-10	12-10	12-10	12-11	12-11	12-11
175	17-6	17-6	17-7	17-7	17-7	17-7	17-7	17-7	17-7	17-7
200	23-0	23-0	23-0	23-0	23-0	23-1	23-1	23-1	23-1	23-1
225	29-3	29-3	29-3	29-3	29-3	29-4	29-4	29-4	29-4	29-4
250	36-3	36-3	36-4	36-4	36-4	36-4	36-4	36-5	36-5	36-5
275	44-1	44-2	44-2	44-2	44-3	44-3	44-3	44-3	44-4	44-4
300	52-10	52-10	52-11	52-11	52-11	53-0	53-0	53-0	53-1	53-1
325	62-5	62-5	62-6	62-6	62-6	62-7	62-7	62-8	62-8	62-8
350	72-11	72-11	73-0	73-0	73-1	73-1	73-2	73-2	73-2	73-3
375	84-4	84-4	84-5	84-6	84-6	84-7	84-7	84-8	84-8	84-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	12-10	12-10	12-10	12-10	12-10	12-10	12-11	12-11	12-11	12-11
175	17-6	17-6	17-7	17-7	17-7	17-7	17-7	17-7	17-7	17-7
200	23-0	23-0	23-0	23-0	23-0	23-1	23-1	23-1	23-1	23-1
225	29-3	29-3	29-3	29-3	29-3	29-4	29-4	29-4	29-4	29-4
250	36-3	36-3	36-4	36-4	36-4	36-4	36-5	36-5	36-5	36-5
275	44-2	44-2	44-2	44-2	44-3	44-3	44-3	44-3	44-4	44-4
300	52-10	52-10	52-11	52-11	52-11	53-0	53-0	53-0	53-1	53-1
325	62-5	62-5	62-6	62-6	62-7	62-7	62-7	62-8	62-8	62-9
350	72-11	72-11	73-0	73-0	73-1	73-1	73-2	73-2	73-3	73-3
375	84-4	84-5	84-5	84-6	84-6	84-7	84-7	84-8	84-8	84-9

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SHEET 54 OF 215

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.54

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	25-7	25-7	25-7	25-7	25-7	25-7	25-7	25-7	25-7	25-7
225	32-6	32-6	32-6	32-6	32-6	32-7	32-7	32-7	32-7	32-7
250	40-5	40-5	40-5	40-5	40-5	40-5	40-5	40-5	40-5	40-6
275	49-2	49-3	49-3	49-3	49-3	49-3	49-3	49-3	49-3	49-4
300	59-0	59-0	59-0	59-0	59-1	59-1	59-1	59-1	59-1	59-1
325	69-9	69-10	69-10	69-10	69-10	69-11	69-11	69-11	69-11	69-11
350	81-8	81-8	81-8	81-8	81-9	81-9	81-9	81-9	81-10	81-10
375	94-7	94-8	94-8	94-8	94-8	94-9	94-9	94-9	94-9	94-10
400	108-9	108-9	108-9	108-10	108-10	108-10	108-11	108-11	108-11	108-11
425	124-0	124-1	124-1	124-2	124-2	124-2	124-3	124-3	124-3	124-4
450	140-7	140-8	140-8	140-9	140-9	140-10	140-10	140-11	140-11	140-11
475	158-7	158-7	158-8	158-8	158-9	158-9	158-10	158-10	158-10	158-11
500	177-10	177-11	178-0	178-0	178-1	178-1	178-2	178-2	178-3	178-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	25-7	25-7	25-7	25-7	25-7	25-7	25-7	25-7	25-7	25-7
225	32-6	32-6	32-6	32-6	32-7	32-7	32-7	32-7	32-7	32-7
250	40-5	40-5	40-5	40-5	40-5	40-5	40-5	40-5	40-6	40-6
275	49-2	49-3	49-3	49-3	49-3	49-3	49-3	49-3	49-4	49-4
300	59-0	59-0	59-0	59-0	59-1	59-1	59-1	59-1	59-1	59-1
325	69-10	69-10	69-10	69-10	69-10	69-11	69-11	69-11	69-11	69-11
350	81-8	81-8	81-8	81-9	81-9	81-9	81-9	81-10	81-10	81-10
375	94-7	94-8	94-8	94-8	94-9	94-9	94-9	94-9	94-10	94-10
400	108-9	108-9	108-9	108-10	108-10	108-10	108-11	108-11	108-11	109-0
425	124-1	124-1	124-1	124-2	124-2	124-3	124-3	124-3	124-4	124-4
450	140-8	140-8	140-9	140-9	140-9	140-10	140-10	140-11	140-11	141-0
475	158-7	158-7	158-8	158-8	158-9	158-9	158-10	158-10	158-11	158-11
500	177-11	177-11	178-0	178-0	178-1	178-1	178-2	178-3	178-3	178-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.55

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.182	3.5	1500	3.5	1500*
0	0	0	0	0.481	3.05	198	3.02	200
30	0	0	0	0.481	3.19	189	3.16	191
40	0	0	0	0.481	3.24	187	3.21	188
50	0	0	0	0.481	3.28	184	3.25	186
60	0	0	0	0.481	3.32	182	3.3	183
70	0	0	0	0.481	3.37	179	3.34	181
80	0	0	0	0.481	3.41	177	3.39	178
90	0	0	0	0.481	3.45	175	3.43	176
100	0	0	0	0.481	3.5	173	3.47	174
110	0	0	0	0.481	3.53	171	3.5	172
120	0	0	0	0.481	3.57	169	3.54	171
130	0	0	0	0.481	3.61	167	3.58	169
167	0	0	0	0.481	3.74	161	3.71	163
212	0	0	0	0.481	3.9	155	3.87	156

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.182	14.22	1500	14.22	1500*
0	0	0	0	0.481	13.79	178	13.76	178
30	0	0	0	0.481	13.92	176	13.89	177
40	0	0	0	0.481	13.96	176	13.93	176
50	0	0	0	0.481	14	175	13.98	175
60	0	0	0	0.481	14.05	175	14.02	175
70	0	0	0	0.481	14.09	174	14.06	174
80	0	0	0	0.481	14.13	174	14.11	174
90	0	0	0	0.481	14.17	173	14.15	173
100	0	0	0	0.481	14.22	173	14.19	173
110	0	0	0	0.481	14.26	172	14.23	172
120	0	0	0	0.481	14.29	172	14.26	172
130	0	0	0	0.481	14.33	171	14.3	172
167	0	0	0	0.481	14.47	170	14.44	170
212	0	0	0	0.481	14.64	168	14.61	168

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.56

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.182	32.88	1500	32.88	1500*
0	0	0	0	0.481	32.45	175	32.42	175
30	0	0	0	0.481	32.58	174	32.55	174
40	0	0	0	0.481	32.62	174	32.59	174
50	0	0	0	0.481	32.66	174	32.63	174
60	0	0	0	0.481	32.7	173	32.68	173
70	0	0	0	0.481	32.75	173	32.72	173
80	0	0	0	0.481	32.79	173	32.76	173
90	0	0	0	0.481	32.83	173	32.8	173
100	0	0	0	0.481	32.87	173	32.84	173
110	0	0	0	0.481	32.91	172	32.88	173
120	0	0	0	0.481	32.95	172	32.92	172
130	0	0	0	0.481	32.99	172	32.96	172
167	0	0	0	0.481	33.13	171	33.1	171
212	0	0	0	0.481	33.3	171	33.27	171

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.182	60.98	1500	60.98	1500*
0	0	0	0	0.481	60.56	174	60.52	174
30	0	0	0	0.481	60.68	173	60.65	173
40	0	0	0	0.481	60.72	173	60.70	173
50	0	0	0	0.481	60.77	173	60.74	173
60	0	0	0	0.481	60.81	173	60.78	173
70	0	0	0	0.481	60.85	173	60.83	173
80	0	0	0	0.481	60.89	173	60.87	173
90	0	0	0	0.481	60.93	173	60.91	173
100	0	0	0	0.481	60.98	173	60.95	173
110	0	0	0	0.481	61.02	172	60.98	173
120	0	0	0	0.481	61.05	172	61.02	172
130	0	0	0	0.481	61.09	172	61.06	172
167	0	0	0	0.481	61.23	172	61.20	172
212	0	0	0	0.481	61.41	172	61.37	172

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.57

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.182	101.72	1500	101.72	1500*
0	0	0	0	0.481	101.29	173	101.26	173
30	0	0	0	0.481	101.42	173	101.39	173
40	0	0	0	0.481	101.46	173	101.43	173
50	0	0	0	0.481	101.5	173	101.48	173
60	0	0	0	0.481	101.54	173	101.52	173
70	0	0	0	0.481	101.59	173	101.56	173
80	0	0	0	0.481	101.63	173	101.6	173
90	0	0	0	0.481	101.67	173	101.64	173
100	0	0	0	0.481	101.71	173	101.68	173
110	0	0	0	0.481	101.75	172	101.72	173
120	0	0	0	0.481	101.79	172	101.76	172
130	0	0	0	0.481	101.83	172	101.8	172
167	0	0	0	0.481	101.97	172	101.94	172
212	0	0	0	0.481	102.14	172	102.11	172

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.58

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	1-9	1-9	1-10	1-10	1-10	1-11	1-11	1-11	1-11	2-0
100	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-5	3-6	3-6
125	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-4	5-5	5-6
150	7-0	7-1	7-3	7-4	7-5	7-6	7-8	7-9	7-10	7-11
175	9-7	9-8	9-10	10-0	10-2	10-3	10-5	10-6	10-8	10-9
200	12-6	12-8	12-11	13-1	13-3	13-5	13-7	13-9	13-11	14-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	1-9	1-10	1-10	1-10	1-10	1-11	1-11	1-11	2-0	2-0
100	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6	3-6
125	4-11	5-0	5-1	5-2	5-2	5-3	5-4	5-5	5-6	5-6
150	7-1	7-2	7-4	7-5	7-6	7-7	7-8	7-9	7-11	8-0
175	9-8	9-10	9-11	10-1	10-3	10-4	10-6	10-7	10-9	10-10
200	12-8	12-10	13-0	13-2	13-4	13-6	13-9	13-11	14-1	14-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.59

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	3-5	3-5	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6
125	5-5	5-5	5-5	5-5	5-5	5-6	5-6	5-6	5-6	5-6
150	7-9	7-9	7-10	7-10	7-10	7-11	7-11	7-11	7-11	8-0
175	10-7	10-7	10-8	10-8	10-9	10-9	10-9	10-10	10-10	10-10
200	13-10	13-11	13-11	14-0	14-0	14-1	14-1	14-2	14-2	14-3
225	17-7	17-7	17-8	17-9	17-9	17-10	17-11	17-11	18-0	18-0
250	21-9	21-9	21-10	21-11	22-0	22-1	22-2	22-2	22-3	22-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	3-5	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-7
125	5-5	5-5	5-5	5-5	5-6	5-6	5-6	5-6	5-6	5-7
150	7-9	7-10	7-10	7-10	7-11	7-11	7-11	7-11	8-0	8-0
175	10-7	10-8	10-8	10-8	10-9	10-9	10-10	10-10	10-10	10-11
200	13-11	13-11	14-0	14-0	14-1	14-1	14-2	14-2	14-3	14-3
225	17-7	17-8	17-8	17-9	17-10	17-10	17-11	18-0	18-0	18-1
250	21-9	21-10	21-11	22-0	22-0	22-1	22-2	22-3	22-4	22-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.60

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	8-0	8-1	8-1	8-1	8-1	8-1	8-1	8-1	8-1	8-2
175	10-11	11-0	11-0	11-0	11-0	11-0	11-0	11-1	11-1	11-1
200	14-4	14-4	14-4	14-5	14-5	14-5	14-5	14-5	14-6	14-6
225	18-2	18-2	18-3	18-3	18-3	18-3	18-4	18-4	18-4	18-4
250	22-6	22-6	22-6	22-7	22-7	22-7	22-8	22-8	22-8	22-9
275	27-3	27-3	27-4	27-4	27-5	27-5	27-6	27-6	27-6	27-7
300	32-6	32-7	32-7	32-8	32-8	32-9	32-9	32-10	32-10	32-11
325	38-3	38-4	38-4	38-5	38-5	38-6	38-7	38-7	38-8	38-8
350	44-6	44-7	44-7	44-8	44-9	44-9	44-10	44-11	44-11	45-0
375	51-3	51-3	51-4	51-5	51-6	51-7	51-8	51-8	51-9	51-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	8-0	8-1	8-1	8-1	8-1	8-1	8-1	8-1	8-1	8-2
175	11-0	11-0	11-0	11-0	11-0	11-0	11-1	11-1	11-1	11-1
200	14-4	14-4	14-4	14-5	14-5	14-5	14-5	14-6	14-6	14-6
225	18-2	18-2	18-3	18-3	18-3	18-4	18-4	18-4	18-4	18-5
250	22-6	22-6	22-7	22-7	22-7	22-8	22-8	22-8	22-9	22-9
275	27-3	27-4	27-4	27-5	27-5	27-5	27-6	27-6	27-7	27-7
300	32-6	32-7	32-7	32-8	32-8	32-9	32-9	32-10	32-10	32-11
325	38-3	38-4	38-5	38-5	38-6	38-6	38-7	38-8	38-8	38-9
350	44-6	44-7	44-8	44-8	44-9	44-10	44-11	44-11	45-0	45-1
375	51-3	51-4	51-5	51-6	51-6	51-7	51-8	51-9	51-10	51-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.61

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	14-10	14-10	14-10	14-10	14-10	14-11	14-11	14-11	14-11	14-11
225	18-10	18-10	18-10	18-10	18-10	18-10	18-11	18-11	18-11	18-11
250	23-3	23-3	23-4	23-4	23-4	23-4	23-4	23-4	23-5	23-5
275	28-3	28-3	28-3	28-3	28-4	28-4	28-4	28-4	28-4	28-5
300	33-8	33-8	33-9	33-9	33-9	33-9	33-10	33-10	33-10	33-10
325	39-7	39-8	39-8	39-8	39-9	39-9	39-9	39-10	39-10	39-10
350	46-1	46-2	46-2	46-2	46-3	46-3	46-3	46-4	46-4	46-4
375	53-1	53-1	53-2	53-2	53-3	53-3	53-4	53-4	53-5	53-5
400	60-7	60-8	60-8	60-9	60-9	60-10	60-10	60-11	60-11	61-0
425	68-8	68-9	68-9	68-10	68-10	68-11	69-0	69-0	69-1	69-1
450	77-4	77-4	77-5	77-6	77-6	77-7	77-8	77-8	77-9	77-9
475	86-6	86-7	86-7	86-8	86-9	86-10	86-10	86-11	87-0	87-0
500	96-3	96-4	96-5	96-5	96-6	96-7	96-8	96-9	96-10	96-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	14-10	14-10	14-10	14-10	14-11	14-11	14-11	14-11	14-11	14-11
225	18-10	18-10	18-10	18-10	18-10	18-11	18-11	18-11	18-11	18-11
250	23-3	23-3	23-4	23-4	23-4	23-4	23-4	23-5	23-5	23-5
275	28-3	28-3	28-3	28-3	28-4	28-4	28-4	28-4	28-5	28-5
300	33-8	33-8	33-9	33-9	33-9	33-10	33-10	33-10	33-10	33-11
325	39-8	39-8	39-8	39-9	39-9	39-9	39-10	39-10	39-10	39-11
350	46-1	46-2	46-2	46-3	46-3	46-3	46-4	46-4	46-4	46-5
375	53-1	53-2	53-2	53-3	53-3	53-4	53-4	53-4	53-5	53-5
400	60-8	60-8	60-9	60-9	60-10	60-10	60-11	60-11	61-0	61-0
425	68-9	68-9	68-10	68-10	68-11	68-11	69-0	69-1	69-1	69-2
450	77-4	77-5	77-5	77-6	77-7	77-7	77-8	77-9	77-9	77-10
475	86-6	86-7	86-8	86-9	86-9	86-10	86-11	86-11	87-0	87-1
500	96-4	96-4	96-5	96-6	96-7	96-8	96-8	96-9	96-10	96-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.62

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	24-5	24-5	24-5	24-5	24-5	24-6	24-6	24-6	24-6	24-6
275	29-7	29-8	29-8	29-8	29-8	29-8	29-8	29-8	29-9	29-9
300	35-4	35-4	35-5	35-5	35-5	35-5	35-5	35-5	35-6	35-6
325	41-7	41-8	41-8	41-8	41-8	41-8	41-9	41-9	41-9	41-9
350	48-5	48-5	48-6	48-6	48-6	48-6	48-7	48-7	48-7	48-7
375	55-10	55-10	55-10	55-10	55-11	55-11	55-11	55-11	56-0	56-0
400	63-9	63-9	63-9	63-10	63-10	63-10	63-11	63-11	63-11	63-11
425	72-3	72-3	72-3	72-4	72-4	72-5	72-5	72-5	72-6	72-6
450	81-4	81-4	81-5	81-5	81-6	81-6	81-6	81-7	81-7	81-7
475	91-0	91-1	91-1	91-2	91-2	91-3	91-3	91-4	91-4	91-4
500	101-4	101-5	101-5	101-6	101-6	101-7	101-7	101-8	101-8	101-9
525	112-4	112-4	112-5	112-5	112-6	112-6	112-7	112-8	112-8	112-9
550	123-11	123-11	124-0	124-1	124-1	124-2	124-3	124-3	124-4	124-4
575	136-2	136-3	136-3	136-4	136-5	136-6	136-6	136-7	136-8	136-8
600	149-2	149-2	149-3	149-4	149-5	149-5	149-6	149-7	149-8	149-8
625	162-9	162-10	162-11	163-0	163-1	163-2	163-3	163-3	163-4	163-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	24-5	24-5	24-5	24-5	24-6	24-6	24-6	24-6	24-6	24-6
275	29-8	29-8	29-8	29-8	29-8	29-8	29-8	29-9	29-9	29-9
300	35-4	35-5	35-5	35-5	35-5	35-5	35-5	35-5	35-6	35-6
325	41-8	41-8	41-8	41-8	41-8	41-9	41-9	41-9	41-9	41-9
350	48-5	48-6	48-6	48-6	48-6	48-6	48-7	48-7	48-7	48-7
375	55-10	55-10	55-10	55-11	55-11	55-11	55-11	56-0	56-0	56-0
400	63-9	63-9	63-10	63-10	63-10	63-10	63-11	63-11	63-11	64-0
425	72-3	72-3	72-4	72-4	72-4	72-5	72-5	72-5	72-6	72-6
450	81-4	81-5	81-5	81-5	81-6	81-6	81-7	81-7	81-7	81-8
475	91-1	91-1	91-2	91-2	91-2	91-3	91-3	91-4	91-4	91-5
500	101-5	101-5	101-6	101-6	101-7	101-7	101-8	101-8	101-9	101-9
525	112-4	112-5	112-5	112-6	112-6	112-7	112-7	112-8	112-8	112-9
550	123-11	124-0	124-1	124-1	124-2	124-2	124-3	124-4	124-4	124-5
575	136-3	136-3	136-4	136-5	136-5	136-6	136-7	136-7	136-8	136-9
600	149-2	149-3	149-4	149-4	149-5	149-6	149-7	149-7	149-8	149-9
625	162-10	162-11	163-0	163-1	163-1	163-2	163-3	163-4	163-5	163-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.63

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.182	2.62	2000	2.62	2000*
0	0	0	0	0.481	1.76	341	1.7	355
30	0	0	0	0.481	1.98	304	1.92	314
40	0	0	0	0.481	2.05	294	1.99	303
50	0	0	0	0.481	2.11	285	2.06	293
60	0	0	0	0.481	2.18	277	2.12	283
70	0	0	0	0.481	2.24	269	2.19	275
80	0	0	0	0.481	2.3	262	2.25	267
90	0	0	0	0.481	2.36	255	2.32	260
100	0	0	0	0.481	2.42	249	2.37	254
110	0	0	0	0.481	2.48	243	2.43	248
120	0	0	0	0.481	2.53	239	2.48	243
130	0	0	0	0.481	2.58	234	2.53	238
167	0	0	0	0.481	2.76	219	2.71	222
212	0	0	0	0.481	2.96	204	2.92	207

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.182	10.57	2000	10.57	2000*
0	0	0	0	0.481	9.79	248	9.73	250
30	0	0	0	0.481	9.97	244	9.91	245
40	0	0	0	0.481	10.03	242	9.97	244
50	0	0	0	0.481	10.08	241	10.03	242
60	0	0	0	0.481	10.14	240	10.09	241
70	0	0	0	0.481	10.2	238	10.15	239
80	0	0	0	0.481	10.26	237	10.21	238
90	0	0	0	0.481	10.32	236	10.27	237
100	0	0	0	0.481	10.37	234	10.32	235
110	0	0	0	0.481	10.43	233	10.38	234
120	0	0	0	0.481	10.48	232	10.43	233
130	0	0	0	0.481	10.53	231	10.48	232
167	0	0	0	0.481	10.72	227	10.67	228
212	0	0	0	0.481	10.94	222	10.89	223

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.64

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.182	24.13	2000	24.13	2000*
0	0	0	0	0.481	23.36	237	23.31	238
30	0	0	0	0.481	23.54	236	23.48	236
40	0	0	0	0.481	23.59	235	23.54	236
50	0	0	0	0.481	23.65	235	23.6	235
60	0	0	0	0.481	23.71	234	23.66	234
70	0	0	0	0.481	23.76	233	23.72	234
80	0	0	0	0.481	23.82	233	23.78	233
90	0	0	0	0.481	23.88	232	23.83	233
100	0	0	0	0.481	23.94	232	23.89	232
110	0	0	0	0.481	23.99	231	23.94	232
120	0	0	0	0.481	24.04	231	23.99	231
130	0	0	0	0.481	24.09	230	24.04	231
167	0	0	0	0.481	24.28	229	24.23	229
212	0	0	0	0.481	24.51	227	24.46	227

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.182	43.84	2000	43.84	2000*
0	0	0	0	0.481	43.07	234	43.02	234
30	0	0	0	0.481	43.24	233	43.19	233
40	0	0	0	0.481	43.3	233	43.25	233
50	0	0	0	0.481	43.36	232	43.31	233
60	0	0	0	0.481	43.41	232	43.36	232
70	0	0	0	0.481	43.47	232	43.42	232
80	0	0	0	0.481	43.53	232	43.48	232
90	0	0	0	0.481	43.58	231	43.54	231
100	0	0	0	0.481	43.64	231	43.59	231
110	0	0	0	0.481	43.69	231	43.64	231
120	0	0	0	0.481	43.74	230	43.69	231
130	0	0	0	0.481	43.79	230	43.74	230
167	0	0	0	0.481	43.98	229	43.93	230
212	0	0	0	0.481	44.21	228	44.16	228

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.65

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.182	70.59	2000	70.59	2000*
0	0	0	0	0.481	69.83	232	69.77	232
30	0	0	0	0.481	69.99	232	69.94	232
40	0	0	0	0.481	70.05	232	70	232
50	0	0	0	0.481	70.11	231	70.06	232
60	0	0	0	0.481	70.16	231	70.12	231
70	0	0	0	0.481	70.22	231	70.17	231
80	0	0	0	0.481	70.28	231	70.23	231
90	0	0	0	0.481	70.33	231	70.29	231
100	0	0	0	0.481	70.39	231	70.34	231
110	0	0	0	0.481	70.44	230	70.39	231
120	0	0	0	0.481	70.49	230	70.44	230
130	0	0	0	0.481	70.54	230	70.49	230
167	0	0	0	0.481	70.73	230	70.68	230
212	0	0	0	0.481	70.96	229	70.91	229

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.66

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4
100	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-4	2-4	2-5
125	2-11	3-0	3-1	3-3	3-4	3-5	3-6	3-7	3-9	3-10
150	4-2	4-4	4-6	4-8	4-9	4-11	5-1	5-3	5-4	5-6
175	5-8	5-11	6-1	6-4	6-6	6-9	6-11	7-1	7-3	7-5
200	7-5	7-8	8-0	8-3	8-6	8-9	9-0	9-3	9-6	9-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4	1-5
100	1-11	2-0	2-1	2-1	2-2	2-3	2-4	2-4	2-5	2-6
125	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9	3-10
150	4-4	4-5	4-7	4-9	4-11	5-1	5-2	5-4	5-5	5-7
175	5-10	6-1	6-3	6-6	6-8	6-10	7-1	7-3	7-5	7-7
200	7-8	7-11	8-2	8-6	8-9	9-0	9-3	9-6	9-9	9-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.67

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	2-5	2-6	2-6	2-6	2-6	2-6	2-7	2-7	2-7	2-7
125	3-10	3-10	3-11	3-11	3-11	3-11	4-0	4-0	4-0	4-1
150	5-6	5-7	5-7	5-8	5-8	5-8	5-9	5-9	5-10	5-10
175	7-6	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-11	7-11
200	9-10	9-11	10-0	10-0	10-1	10-2	10-3	10-3	10-4	10-5
225	12-6	12-7	12-8	12-9	12-9	12-10	12-11	13-0	13-1	13-2
250	15-5	15-6	15-7	15-8	15-10	15-11	16-0	16-1	16-2	16-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	2-6	2-6	2-6	2-6	2-6	2-7	2-7	2-7	2-7	2-7
125	3-10	3-11	3-11	3-11	3-11	4-0	4-0	4-0	4-1	4-1
150	5-7	5-7	5-8	5-8	5-8	5-9	5-9	5-10	5-10	5-10
175	7-7	7-7	7-8	7-9	7-9	7-10	7-10	7-11	7-11	8-0
200	9-11	10-0	10-0	10-1	10-2	10-2	10-3	10-4	10-4	10-5
225	12-7	12-7	12-8	12-9	12-10	12-11	13-0	13-1	13-2	13-2
250	15-6	15-7	15-8	15-9	15-11	16-0	16-1	16-2	16-3	16-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.68

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	5-10	5-10	5-10	5-10	5-11	5-11	5-11	5-11	5-11	5-11
175	7-11	7-11	8-0	8-0	8-0	8-0	8-1	8-1	8-1	8-1
200	10-4	10-5	10-5	10-5	10-6	10-6	10-6	10-7	10-7	10-7
225	13-2	13-2	13-2	13-3	13-3	13-4	13-4	13-4	13-5	13-5
250	16-3	16-3	16-4	16-4	16-5	16-5	16-6	16-6	16-7	16-7
275	19-8	19-8	19-9	19-10	19-10	19-11	19-11	20-0	20-1	20-1
300	23-5	23-6	23-6	23-7	23-8	23-9	23-9	23-10	23-11	23-11
325	27-6	27-7	27-8	27-9	27-10	27-10	27-11	28-0	28-1	28-2
350	32-0	32-1	32-2	32-3	32-4	32-5	32-5	32-6	32-7	32-8
375	36-9	36-10	36-11	37-1	37-2	37-3	37-4	37-5	37-6	37-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	5-10	5-10	5-10	5-11	5-11	5-11	5-11	5-11	5-11	6-0
175	7-11	8-0	8-0	8-0	8-0	8-1	8-1	8-1	8-1	8-1
200	10-5	10-5	10-5	10-6	10-6	10-6	10-6	10-7	10-7	10-7
225	13-2	13-2	13-3	13-3	13-3	13-4	13-4	13-5	13-5	13-5
250	16-3	16-4	16-4	16-5	16-5	16-6	16-6	16-6	16-7	16-7
275	19-8	19-9	19-10	19-10	19-11	19-11	20-0	20-0	20-1	20-2
300	23-6	23-6	23-7	23-8	23-8	23-9	23-10	23-11	23-11	24-0
325	27-7	27-8	27-9	27-10	27-10	27-11	28-0	28-1	28-2	28-2
350	32-1	32-2	32-2	32-3	32-4	32-5	32-6	32-7	32-8	32-9
375	36-10	36-11	37-0	37-1	37-3	37-4	37-5	37-6	37-7	37-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.69

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	10-8	10-8	10-8	10-8	10-9	10-9	10-9	10-9	10-9	10-9
225	13-6	13-6	13-7	13-7	13-7	13-7	13-7	13-8	13-8	13-8
250	16-8	16-9	16-9	16-9	16-9	16-10	16-10	16-10	16-10	16-11
275	20-3	20-3	20-3	20-4	20-4	20-4	20-5	20-5	20-5	20-6
300	24-1	24-2	24-2	24-2	24-3	24-3	24-4	24-4	24-4	24-5
325	28-4	28-4	28-5	28-5	28-6	28-6	28-7	28-7	28-8	28-8
350	32-11	32-11	33-0	33-0	33-1	33-2	33-2	33-3	33-3	33-4
375	37-10	37-11	37-11	38-0	38-1	38-1	38-2	38-2	38-3	38-3
400	43-2	43-2	43-3	43-4	43-4	43-5	43-6	43-6	43-7	43-8
425	48-9	48-10	48-11	49-0	49-1	49-1	49-2	49-3	49-4	49-4
450	54-10	54-11	54-11	55-0	55-1	55-2	55-3	55-4	55-5	55-6
475	61-2	61-3	61-4	61-5	61-6	61-7	61-8	61-9	61-10	61-11
500	68-0	68-1	68-2	68-3	68-4	68-5	68-6	68-7	68-8	68-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	10-8	10-8	10-8	10-9	10-9	10-9	10-9	10-9	10-9	10-10
225	13-6	13-7	13-7	13-7	13-7	13-7	13-8	13-8	13-8	13-8
250	16-9	16-9	16-9	16-9	16-10	16-10	16-10	16-10	16-11	16-11
275	20-3	20-3	20-4	20-4	20-4	20-5	20-5	20-5	20-6	20-6
300	24-2	24-2	24-2	24-3	24-3	24-3	24-4	24-4	24-5	24-5
325	28-4	28-5	28-5	28-6	28-6	28-7	28-7	28-7	28-8	28-8
350	32-11	33-0	33-0	33-1	33-1	33-2	33-2	33-3	33-3	33-4
375	37-11	37-11	38-0	38-0	38-1	38-2	38-2	38-3	38-3	38-4
400	43-2	43-3	43-4	43-4	43-5	43-6	43-6	43-7	43-8	43-8
425	48-10	48-11	49-0	49-0	49-1	49-2	49-3	49-4	49-4	49-5
450	54-11	54-11	55-0	55-1	55-2	55-3	55-4	55-5	55-5	55-6
475	61-3	61-4	61-5	61-6	61-7	61-8	61-9	61-10	61-11	62-0
500	68-1	68-2	68-3	68-4	68-5	68-6	68-7	68-8	68-9	68-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.70

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	17-2	17-2	17-2	17-2	17-2	17-3	17-3	17-3	17-3	17-3
275	20-9	20-10	20-10	20-10	20-10	20-10	20-11	20-11	20-11	20-11
300	24-9	24-9	24-10	24-10	24-10	24-10	24-11	24-11	24-11	24-11
325	29-1	29-2	29-2	29-2	29-2	29-3	29-3	29-3	29-4	29-4
350	33-10	33-10	33-10	33-11	33-11	33-11	34-0	34-0	34-0	34-1
375	38-11	38-11	38-11	39-0	39-0	39-1	39-1	39-1	39-2	39-2
400	44-4	44-4	44-5	44-5	44-6	44-6	44-7	44-7	44-7	44-8
425	50-2	50-2	50-3	50-3	50-4	50-4	50-5	50-5	50-6	50-6
450	56-4	56-5	56-5	56-6	56-6	56-7	56-7	56-8	56-8	56-9
475	62-11	63-0	63-0	63-1	63-2	63-2	63-3	63-3	63-4	63-4
500	69-11	69-11	70-0	70-1	70-1	70-2	70-3	70-3	70-4	70-5
525	77-3	77-4	77-4	77-5	77-6	77-7	77-8	77-8	77-9	77-10
550	85-0	85-1	85-2	85-3	85-3	85-4	85-5	85-6	85-7	85-7
575	93-2	93-3	93-4	93-5	93-6	93-7	93-8	93-8	93-9	93-10
600	101-9	101-10	101-11	102-0	102-1	102-2	102-3	102-4	102-5	102-6
625	110-9	110-10	110-11	111-0	111-1	111-2	111-3	111-5	111-6	111-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	17-2	17-2	17-2	17-2	17-3	17-3	17-3	17-3	17-3	17-3
275	20-10	20-10	20-10	20-10	20-10	20-11	20-11	20-11	20-11	20-11
300	24-9	24-10	24-10	24-10	24-10	24-11	24-11	24-11	24-11	24-11
325	29-2	29-2	29-2	29-2	29-3	29-3	29-3	29-3	29-4	29-4
350	33-10	33-10	33-11	33-11	33-11	34-0	34-0	34-0	34-1	34-1
375	38-11	38-11	39-0	39-0	39-0	39-1	39-1	39-2	39-2	39-2
400	44-4	44-5	44-5	44-6	44-6	44-6	44-7	44-7	44-8	44-8
425	50-2	50-3	50-3	50-4	50-4	50-5	50-5	50-6	50-6	50-6
450	56-5	56-5	56-6	56-6	56-7	56-7	56-8	56-8	56-9	56-9
475	63-0	63-0	63-1	63-1	63-2	63-3	63-3	63-4	63-4	63-5
500	69-11	70-0	70-1	70-1	70-2	70-3	70-3	70-4	70-5	70-5
525	77-4	77-4	77-5	77-6	77-7	77-7	77-8	77-9	77-10	77-10
550	85-1	85-2	85-2	85-3	85-4	85-5	85-6	85-7	85-7	85-8
575	93-3	93-4	93-5	93-6	93-6	93-7	93-8	93-9	93-10	93-11
600	101-10	101-11	102-0	102-1	102-2	102-3	102-4	102-5	102-6	102-7
625	110-10	110-11	111-0	111-1	111-2	111-3	111-4	111-5	111-6	111-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.71

Span = 100 ft

Design Condition Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Final Sag ft	Final Tension lb	Initial Sag ft	Initial Tension lb
50	0	10.8	0	1.001	1.25	1000	1.25	1000*
20	0	0	0	0.481	0.67	897	0.67	903
30	0	0	0	0.481	0.74	811	0.73	819
40	0	0	0	0.481	0.82	734	0.81	743
50	0	0	0	0.481	0.9	666	0.89	675
60	0	0	0	0.481	0.99	608	0.98	616
70	0	0	0	0.481	1.08	558	1.06	565
80	0	0	0	0.481	1.17	516	1.15	522
90	0	0	0	0.481	1.25	479	1.24	484
100	0	0	0	0.481	1.34	448	1.33	452
110	0	0	0	0.481	1.43	422	1.42	425
120	0	0	0	0.481	1.51	399	1.49	403
130	0	0	0	0.481	1.59	378	1.57	384
167	0	0	0	0.481	1.84	327	1.82	331
212	0	0	0	0.481	2.12	284	2.1	287

* Design Condition

Span = 200 ft

Design Condition Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Final Sag ft	Final Tension lb	Initial Sag ft	Initial Tension lb
50	0	10.8	0	1.001	5.02	1000	5.02	1000*
20	0	0	0	0.481	4.22	572	4.19	575
30	0	0	0	0.481	4.34	556	4.31	559
40	0	0	0	0.481	4.46	541	4.43	544
50	0	0	0	0.481	4.57	527	4.55	530
60	0	0	0	0.481	4.69	514	4.67	517
70	0	0	0	0.481	4.8	502	4.78	504
80	0	0	0	0.481	4.91	491	4.9	492
90	0	0	0	0.481	5.02	480	5.01	482
100	0	0	0	0.481	5.13	470	5.12	471
110	0	0	0	0.481	5.24	461	5.23	462
120	0	0	0	0.481	5.34	452	5.33	452
130	0	0	0	0.481	5.44	443	5.42	445
167	0	0	0	0.481	5.78	417	5.76	419
212	0	0	0	0.481	6.17	391	6.14	393

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.72

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.001	11.33	1000	11.33	1000*
20	0	0	0	0.481	10.51	517	10.48	519
30	0	0	0	0.481	10.63	511	10.6	513
40	0	0	0	0.481	10.75	506	10.72	507
50	0	0	0	0.481	10.87	500	10.85	502
60	0	0	0	0.481	10.99	495	10.96	496
70	0	0	0	0.481	11.1	490	11.08	491
80	0	0	0	0.481	11.22	485	11.2	486
90	0	0	0	0.481	11.33	480	11.32	481
100	0	0	0	0.481	11.45	475	11.43	476
110	0	0	0	0.481	11.56	471	11.55	471
120	0	0	0	0.481	11.67	466	11.66	467
130	0	0	0	0.481	11.78	462	11.76	463
167	0	0	0	0.481	12.16	448	12.13	449
212	0	0	0	0.481	12.59	433	12.56	434

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.001	20.23	1000	20.23	1000*
20	0	0	0	0.481	19.41	500	19.38	501
30	0	0	0	0.481	19.53	497	19.5	498
40	0	0	0	0.481	19.65	494	19.62	495
50	0	0	0	0.481	19.77	491	19.74	492
60	0	0	0	0.481	19.89	488	19.86	489
70	0	0	0	0.481	20.01	486	19.98	486
80	0	0	0	0.481	20.12	483	20.1	483
90	0	0	0	0.481	20.24	480	20.22	481
100	0	0	0	0.481	20.35	478	20.34	478
110	0	0	0	0.481	20.47	475	20.46	475
120	0	0	0	0.481	20.58	472	20.57	473
130	0	0	0	0.481	20.69	470	20.68	470
167	0	0	0	0.481	21.08	461	21.06	462
212	0	0	0	0.481	21.54	452	21.51	452

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.73

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.001	31.8	1000	31.8	1000*
20	0	0	0	0.481	30.98	493	30.95	493
30	0	0	0	0.481	31.1	491	31.07	491
40	0	0	0	0.481	31.22	489	31.19	489
50	0	0	0	0.481	31.34	487	31.31	488
60	0	0	0	0.481	31.46	485	31.43	486
70	0	0	0	0.481	31.57	484	31.55	484
80	0	0	0	0.481	31.69	482	31.67	482
90	0	0	0	0.481	31.81	480	31.79	480
100	0	0	0	0.481	31.92	479	31.91	479
110	0	0	0	0.481	32.04	477	32.03	477
120	0	0	0	0.481	32.15	475	32.14	475
130	0	0	0	0.481	32.27	474	32.25	474
167	0	0	0	0.481	32.67	468	32.64	468
212	0	0	0	0.481	33.13	462	33.1	462

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.74

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-8	0-9	0-10
100	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
125	1-0	1-2	1-3	1-5	1-6	1-8	1-10	1-11	2-1	2-3
150	1-6	1-8	1-10	2-0	2-2	2-5	2-7	2-10	3-0	3-2
175	2-0	2-3	2-6	2-9	3-0	3-3	3-6	3-10	4-1	4-4
200	2-8	2-11	3-3	3-7	3-11	4-3	4-7	5-0	5-4	5-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10
100	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
125	1-1	1-2	1-3	1-5	1-7	1-8	1-10	2-0	2-1	2-3
150	1-6	1-8	1-10	2-0	2-3	2-5	2-8	2-10	3-0	3-3
175	2-1	2-3	2-6	2-9	3-0	3-4	3-7	3-10	4-1	4-4
200	2-8	3-0	3-3	3-7	4-0	4-4	4-8	5-0	5-4	5-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.75

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-1	1-1	1-1	1-2	1-2	1-2	1-3	1-3	1-3	1-4
125	1-8	1-8	1-9	1-9	1-10	1-10	1-11	1-11	2-0	2-0
150	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10	2-11	2-11
175	3-2	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
200	4-2	4-4	4-5	4-7	4-8	4-9	4-11	5-0	5-1	5-3
225	5-4	5-5	5-7	5-9	5-11	6-1	6-2	6-4	6-6	6-7
250	6-7	6-9	6-11	7-1	7-4	7-6	7-8	7-10	8-0	8-2

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-1	1-1	1-1	1-2	1-2	1-2	1-3	1-3	1-3	1-4
125	1-8	1-8	1-9	1-9	1-10	1-10	1-11	2-0	2-0	2-1
150	2-4	2-5	2-6	2-7	2-8	2-8	2-9	2-10	2-11	2-11
175	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
200	4-3	4-4	4-5	4-7	4-8	4-10	4-11	5-0	5-2	5-3
225	5-4	5-6	5-8	5-9	5-11	6-1	6-3	6-4	6-6	6-8
250	6-7	6-9	7-0	7-2	7-4	7-6	7-8	7-10	8-0	8-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.76

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-7	2-8	2-8	2-8	2-9	2-9	2-10	2-10	2-10	2-11
175	3-7	3-7	3-8	3-8	3-9	3-9	3-10	3-10	3-11	3-11
200	4-8	4-8	4-9	4-10	4-10	4-11	5-0	5-0	5-1	5-2
225	5-11	6-0	6-0	6-1	6-2	6-3	6-4	6-4	6-5	6-6
250	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0
275	8-10	8-11	9-0	9-1	9-3	9-4	9-5	9-6	9-7	9-8
300	10-6	10-7	10-9	10-10	11-0	11-1	11-2	11-4	11-5	11-7
325	12-4	12-5	12-7	12-9	12-10	13-0	13-2	13-3	13-5	13-7
350	14-3	14-5	14-7	14-9	14-11	15-1	15-3	15-5	15-7	15-9
375	16-5	16-7	16-9	17-0	17-2	17-4	17-6	17-8	17-11	18-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-7	2-8	2-8	2-9	2-9	2-9	2-10	2-10	2-10	2-11
175	3-7	3-7	3-8	3-8	3-9	3-9	3-10	3-10	3-11	3-11
200	4-8	4-9	4-9	4-10	4-11	4-11	5-0	5-0	5-1	5-2
225	5-11	6-0	6-1	6-1	6-2	6-3	6-4	6-4	6-5	6-6
250	7-4	7-5	7-6	7-7	7-8	7-8	7-9	7-10	7-11	8-0
275	8-10	8-11	9-0	9-2	9-3	9-4	9-5	9-6	9-7	9-9
300	10-6	10-8	10-9	10-10	11-0	11-1	11-3	11-4	11-5	11-7
325	12-4	12-6	12-7	12-9	12-11	13-0	13-2	13-4	13-5	13-7
350	14-4	14-6	14-8	14-10	15-0	15-1	15-3	15-5	15-7	15-9
375	16-5	16-8	16-10	17-0	17-2	17-4	17-7	17-9	17-11	18-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.77

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	4-10	4-10	4-11	4-11	4-11	5-0	5-0	5-1	5-1	5-1
225	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5	6-5	6-5
250	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-11	7-11	8-0
275	9-2	9-2	9-3	9-4	9-4	9-5	9-6	9-6	9-7	9-8
300	10-11	10-11	11-0	11-1	11-2	11-3	11-3	11-4	11-5	11-6
325	12-9	12-10	12-11	13-0	13-1	13-2	13-3	13-4	13-5	13-6
350	14-10	14-11	15-0	15-1	15-2	15-3	15-5	15-6	15-7	15-8
375	17-0	17-2	17-3	17-4	17-5	17-7	17-8	17-9	17-10	18-0
400	19-5	19-6	19-7	19-9	19-10	20-0	20-1	20-3	20-4	20-5
425	21-11	22-0	22-2	22-4	22-5	22-7	22-8	22-10	23-0	23-1
450	24-7	24-8	24-10	25-0	25-2	25-4	25-6	25-7	25-9	25-11
475	27-4	27-6	27-9	27-11	28-1	28-3	28-5	28-7	28-9	28-11
500	30-4	30-6	30-9	30-11	31-1	31-3	31-6	31-8	31-10	32-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	4-10	4-10	4-11	4-11	5-0	5-0	5-0	5-1	5-1	5-1
225	6-2	6-2	6-2	6-3	6-3	6-4	6-4	6-5	6-5	6-6
250	7-7	7-7	7-8	7-8	7-9	7-10	7-10	7-11	7-11	8-0
275	9-2	9-3	9-3	9-4	9-5	9-5	9-6	9-7	9-7	9-8
300	10-11	11-0	11-0	11-1	11-2	11-3	11-4	11-4	11-5	11-6
325	12-10	12-11	13-0	13-0	13-1	13-2	13-3	13-4	13-5	13-6
350	14-10	14-11	15-0	15-2	15-3	15-4	15-5	15-6	15-7	15-8
375	17-1	17-2	17-3	17-4	17-6	17-7	17-8	17-9	17-11	18-0
400	19-5	19-6	19-8	19-9	19-11	20-0	20-1	20-3	20-4	20-6
425	21-11	22-1	22-2	22-4	22-6	22-7	22-9	22-10	23-0	23-1
450	24-7	24-9	24-11	25-1	25-2	25-4	25-6	25-8	25-9	25-11
475	27-5	27-7	27-9	27-11	28-1	28-3	28-5	28-7	28-9	28-11
500	30-5	30-7	30-9	30-11	31-2	31-4	31-6	31-8	31-10	32-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.78

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	7-8	7-9	7-9	7-10	7-10	7-10	7-11	7-11	7-11	8-0
275	9-4	9-4	9-5	9-5	9-6	9-6	9-7	9-7	9-7	9-8
300	11-1	11-2	11-2	11-3	11-3	11-4	11-4	11-5	11-5	11-6
325	13-0	13-1	13-2	13-2	13-3	13-3	13-4	13-5	13-5	13-6
350	15-2	15-2	15-3	15-4	15-4	15-5	15-6	15-6	15-7	15-8
375	17-4	17-5	17-6	17-7	17-8	17-8	17-9	17-10	17-11	18-0
400	19-9	19-10	19-11	20-0	20-1	20-2	20-3	20-4	20-5	20-5
425	22-4	22-5	22-6	22-7	22-8	22-9	22-10	22-11	23-0	23-1
450	25-1	25-2	25-3	25-4	25-5	25-6	25-8	25-9	25-10	25-11
475	27-11	28-0	28-2	28-3	28-4	28-6	28-7	28-8	28-9	28-11
500	30-11	31-1	31-2	31-4	31-5	31-7	31-8	31-9	31-11	32-0
525	34-2	34-3	34-5	34-6	34-8	34-10	34-11	35-1	35-2	35-4
550	37-6	37-8	37-9	37-11	38-1	38-3	38-4	38-6	38-8	38-10
575	41-0	41-2	41-4	41-6	41-8	41-10	41-11	42-1	42-3	42-5
600	44-8	44-10	45-0	45-2	45-4	45-6	45-9	45-11	46-1	46-3
625	48-6	48-8	48-11	49-1	49-3	49-5	49-8	49-10	50-0	50-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	7-9	7-9	7-9	7-10	7-10	7-10	7-11	7-11	7-11	8-0
275	9-4	9-4	9-5	9-5	9-6	9-6	9-7	9-7	9-7	9-8
300	11-1	11-2	11-2	11-3	11-3	11-4	11-4	11-5	11-5	11-6
325	13-1	13-1	13-2	13-2	13-3	13-4	13-4	13-5	13-5	13-6
350	15-2	15-2	15-3	15-4	15-4	15-5	15-6	15-7	15-7	15-8
375	17-5	17-5	17-6	17-7	17-8	17-9	17-9	17-10	17-11	18-0
400	19-10	19-10	19-11	20-0	20-1	20-2	20-3	20-4	20-5	20-6
425	22-4	22-5	22-6	22-7	22-8	22-9	22-10	22-11	23-0	23-1
450	25-1	25-2	25-3	25-4	25-5	25-7	25-8	25-9	25-10	25-11
475	27-11	28-1	28-2	28-3	28-4	28-6	28-7	28-8	28-10	28-11
500	31-0	31-1	31-3	31-4	31-5	31-7	31-8	31-10	31-11	32-0
525	34-2	34-4	34-5	34-7	34-8	34-10	34-11	35-1	35-3	35-4
550	37-6	37-8	37-10	38-0	38-1	38-3	38-5	38-6	38-8	38-10
575	41-0	41-2	41-4	41-6	41-8	41-10	42-0	42-2	42-3	42-5
600	44-9	44-11	45-1	45-3	45-5	45-7	45-9	45-11	46-1	46-3
625	48-7	48-9	48-11	49-1	49-4	49-6	49-8	49-10	50-0	50-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.79

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.001	0.83	1500	0.83	1500*
20	0	0	0	0.481	0.37	1634	0.37	1634
30	0	0	0	0.481	0.4	1520	0.4	1520
40	0	0	0	0.481	0.43	1404	0.43	1408
50	0	0	0	0.481	0.47	1288	0.46	1298
60	0	0	0	0.481	0.51	1176	0.51	1190
70	0	0	0	0.481	0.56	1070	0.55	1087
80	0	0	0	0.481	0.62	970	0.61	988
90	0	0	0	0.481	0.69	877	0.67	895
100	0	0	0	0.481	0.76	793	0.74	810
110	0	0	0	0.481	0.84	718	0.82	734
120	0	0	0	0.481	0.92	652	0.9	666
130	0	0	0	0.481	1.01	596	0.99	608
167	0	0	0	0.481	1.32	457	1.28	471
212	0	0	0	0.481	1.65	365	1.6	375

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.001	3.34	1500	3.34	1500*
20	0	0	0	0.481	2.1	1145	2.08	1156
30	0	0	0	0.481	2.23	1078	2.21	1090
40	0	0	0	0.481	2.37	1016	2.34	1028
50	0	0	0	0.481	2.51	960	2.48	972
60	0	0	0	0.481	2.65	909	2.61	921
70	0	0	0	0.481	2.79	863	2.75	874
80	0	0	0	0.481	2.93	822	2.9	831
90	0	0	0	0.481	3.07	784	3.04	793
100	0	0	0	0.481	3.21	750	3.18	758
110	0	0	0	0.481	3.35	719	3.32	726
120	0	0	0	0.481	3.48	691	3.45	697
130	0	0	0	0.481	3.62	666	3.59	671
167	0	0	0	0.481	4.09	590	4.04	597
212	0	0	0	0.481	4.57	527	4.52	533

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.80

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.001	7.53	1500	7.53	1500*
20	0	0	0	0.481	6.04	898	5.99	905
30	0	0	0	0.481	6.21	873	6.16	879
40	0	0	0	0.481	6.39	849	6.34	855
50	0	0	0	0.481	6.56	827	6.51	833
60	0	0	0	0.481	6.73	806	6.68	812
70	0	0	0	0.481	6.89	787	6.85	792
80	0	0	0	0.481	7.06	769	7.01	773
90	0	0	0	0.481	7.22	751	7.18	756
100	0	0	0	0.481	7.38	735	7.34	739
110	0	0	0	0.481	7.54	720	7.5	723
120	0	0	0	0.481	7.69	705	7.66	708
130	0	0	0	0.481	7.85	692	7.82	694
167	0	0	0	0.481	8.4	647	8.34	651
212	0	0	0	0.481	8.97	605	8.92	609

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.001	13.41	1500	13.41	1500*
20	0	0	0	0.481	11.86	814	11.81	818
30	0	0	0	0.481	12.04	802	11.99	805
40	0	0	0	0.481	12.22	790	12.17	794
50	0	0	0	0.481	12.4	779	12.35	782
60	0	0	0	0.481	12.57	768	12.52	771
70	0	0	0	0.481	12.75	758	12.7	761
80	0	0	0	0.481	12.92	748	12.87	751
90	0	0	0	0.481	13.09	738	13.04	741
100	0	0	0	0.481	13.25	729	13.21	731
110	0	0	0	0.481	13.42	720	13.38	722
120	0	0	0	0.481	13.58	711	13.55	713
130	0	0	0	0.481	13.75	703	13.72	705
167	0	0	0	0.481	14.33	675	14.29	677
212	0	0	0	0.481	14.97	646	14.91	649

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.81

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.001	21.01	1500	21.01	1500*
20	0	0	0	0.481	19.45	778	19.39	780
30	0	0	0	0.481	19.63	771	19.57	773
40	0	0	0	0.481	19.8	764	19.75	766
50	0	0	0	0.481	19.98	757	19.93	759
60	0	0	0	0.481	20.16	751	20.1	753
70	0	0	0	0.481	20.33	744	20.28	746
80	0	0	0	0.481	20.51	738	20.46	740
90	0	0	0	0.481	20.68	732	20.63	733
100	0	0	0	0.481	20.85	726	20.81	727
110	0	0	0	0.481	21.02	720	20.98	722
120	0	0	0	0.481	21.19	715	21.15	716
130	0	0	0	0.481	21.35	709	21.32	710
167	0	0	0	0.481	21.96	690	21.92	691
212	0	0	0	0.481	22.63	670	22.57	671

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.82

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
100	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
125	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-1	1-2	1-3
150	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-10
175	1-2	1-3	1-4	1-5	1-7	1-8	1-10	2-1	2-3	2-6
200	1-6	1-7	1-8	1-10	2-0	2-3	2-5	2-8	3-0	3-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
100	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
125	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4
150	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-8	1-11
175	1-2	1-3	1-4	1-5	1-7	1-9	1-11	2-1	2-4	2-7
200	1-6	1-7	1-9	1-10	2-1	2-3	2-6	2-9	3-0	3-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.83

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10
125	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4
150	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10
175	1-7	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-6
200	2-1	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-2	3-4
225	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2
250	3-3	3-5	3-8	3-10	4-1	4-4	4-6	4-9	5-0	5-2

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-6	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-10
125	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4
150	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
175	1-7	1-9	1-10	1-11	2-0	2-2	2-3	2-4	2-5	2-7
200	2-1	2-3	2-4	2-6	2-8	2-9	2-11	3-1	3-3	3-4
225	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-11	4-1	4-3
250	3-3	3-6	3-8	3-11	4-2	4-4	4-7	4-10	5-0	5-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.84

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-6	1-6	1-7	1-8	1-8	1-9	1-9	1-10	1-10	1-10
175	2-0	2-1	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-7
200	2-8	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-4
225	3-4	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-2	4-3
250	4-2	4-3	4-5	4-6	4-8	4-9	4-10	5-0	5-1	5-2
275	5-0	5-2	5-4	5-6	5-7	5-9	5-11	6-0	6-2	6-4
300	6-0	6-2	6-4	6-6	6-8	6-10	7-0	7-2	7-4	7-6
325	7-0	7-3	7-5	7-8	7-10	8-0	8-3	8-5	8-7	8-10
350	8-2	8-5	8-8	8-10	9-1	9-4	9-7	9-9	10-0	10-3
375	9-4	9-8	9-11	10-2	10-5	10-8	11-0	11-3	11-6	11-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-6	1-7	1-7	1-8	1-8	1-9	1-9	1-10	1-10	1-11
175	2-1	2-1	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-7
200	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-2	3-3	3-4
225	3-5	3-6	3-7	3-8	3-9	3-11	4-0	4-1	4-2	4-3
250	4-2	4-4	4-5	4-7	4-8	4-9	4-11	5-0	5-1	5-3
275	5-1	5-3	5-4	5-6	5-8	5-9	5-11	6-1	6-2	6-4
300	6-0	6-3	6-5	6-7	6-9	6-11	7-1	7-3	7-5	7-6
325	7-1	7-3	7-6	7-8	7-11	8-1	8-3	8-6	8-8	8-10
350	8-3	8-5	8-8	8-11	9-2	9-5	9-7	9-10	10-1	10-3
375	9-5	9-9	10-0	10-3	10-6	10-9	11-0	11-3	11-6	11-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.85

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	2-11	3-0	3-0	3-1	3-2	3-2	3-3	3-3	3-4	3-4
225	3-9	3-9	3-10	3-11	4-0	4-0	4-1	4-1	4-2	4-3
250	4-7	4-8	4-9	4-10	4-11	4-11	5-0	5-1	5-2	5-3
275	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4
300	6-8	6-9	6-10	6-11	7-0	7-2	7-3	7-4	7-5	7-6
325	7-9	7-11	8-0	8-2	8-3	8-5	8-6	8-7	8-9	8-10
350	9-0	9-2	9-4	9-5	9-7	9-9	9-10	10-0	10-1	10-3
375	10-5	10-6	10-8	10-10	11-0	11-2	11-4	11-6	11-7	11-9
400	11-10	12-0	12-2	12-4	12-6	12-8	12-10	13-1	13-3	13-5
425	13-4	13-6	13-9	13-11	14-2	14-4	14-6	14-9	14-11	15-1
450	14-11	15-2	15-5	15-8	15-10	16-1	16-4	16-6	16-9	16-11
475	16-8	16-11	17-2	17-5	17-8	17-11	18-2	18-5	18-8	18-11
500	18-6	18-9	19-0	19-4	19-7	19-10	20-2	20-5	20-8	20-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-4	3-4
225	3-9	3-10	3-10	3-11	4-0	4-0	4-1	4-2	4-2	4-3
250	4-8	4-8	4-9	4-10	4-11	5-0	5-0	5-1	5-2	5-3
275	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4
300	6-8	6-9	6-10	7-0	7-1	7-2	7-3	7-4	7-5	7-7
325	7-10	7-11	8-1	8-2	8-4	8-5	8-6	8-8	8-9	8-10
350	9-1	9-3	9-4	9-6	9-7	9-9	9-11	10-0	10-2	10-3
375	10-5	10-7	10-9	10-11	11-1	11-2	11-4	11-6	11-8	11-10
400	11-10	12-1	12-3	12-5	12-7	12-9	12-11	13-1	13-3	13-5
425	13-5	13-7	13-10	14-0	14-2	14-5	14-7	14-9	15-0	15-2
450	15-0	15-3	15-6	15-8	15-11	16-2	16-4	16-7	16-9	17-0
475	16-9	17-0	17-3	17-6	17-9	18-0	18-3	18-6	18-8	18-11
500	18-7	18-10	19-1	19-5	19-8	19-11	20-2	20-6	20-9	21-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.86

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	4-10	4-11	4-11	5-0	5-0	5-1	5-1	5-2	5-2	5-3
275	5-10	5-11	6-0	6-0	6-1	6-2	6-2	6-3	6-3	6-4
300	7-0	7-0	7-1	7-2	7-3	7-3	7-4	7-5	7-6	7-6
325	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-8	8-9	8-10
350	9-6	9-7	9-8	9-9	9-10	9-11	10-0	10-1	10-2	10-3
375	10-11	11-0	11-1	11-2	11-4	11-5	11-6	11-7	11-8	11-9
400	12-5	12-6	12-8	12-9	12-10	13-0	13-1	13-2	13-4	13-5
425	14-0	14-2	14-3	14-5	14-6	14-8	14-9	14-11	15-0	15-2
450	15-8	15-10	16-0	16-2	16-3	16-5	16-7	16-8	16-10	17-0
475	17-6	17-8	17-10	18-0	18-2	18-4	18-6	18-7	18-9	18-11
500	19-5	19-7	19-9	19-11	20-1	20-3	20-5	20-8	20-10	21-0
525	21-5	21-7	21-9	22-0	22-2	22-4	22-7	22-9	22-11	23-2
550	23-6	23-8	23-11	24-1	24-4	24-7	24-9	25-0	25-2	25-5
575	25-8	25-11	26-2	26-4	26-7	26-10	27-1	27-4	27-6	27-9
600	27-11	28-2	28-6	28-9	29-0	29-3	29-6	29-9	30-0	30-3
625	30-4	30-7	30-11	31-2	31-5	31-9	32-0	32-3	32-7	32-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	4-10	4-11	4-11	5-0	5-0	5-1	5-1	5-2	5-2	5-3
275	5-10	5-11	6-0	6-0	6-1	6-2	6-2	6-3	6-4	6-4
300	7-0	7-1	7-1	7-2	7-3	7-4	7-4	7-5	7-6	7-7
325	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-10
350	9-6	9-7	9-8	9-9	9-10	9-11	10-0	10-1	10-2	10-3
375	10-11	11-0	11-2	11-3	11-4	11-5	11-6	11-7	11-9	11-10
400	12-5	12-7	12-8	12-9	12-11	13-0	13-1	13-3	13-4	13-5
425	14-1	14-2	14-4	14-5	14-7	14-8	14-10	14-11	15-1	15-2
450	15-9	15-11	16-0	16-2	16-4	16-6	16-7	16-9	16-11	17-0
475	17-7	17-9	17-10	18-0	18-2	18-4	18-6	18-8	18-10	19-0
500	19-5	19-8	19-10	20-0	20-2	20-4	20-6	20-8	20-10	21-0
525	21-5	21-8	21-10	22-0	22-3	22-5	22-7	22-10	23-0	23-2
550	23-6	23-9	24-0	24-2	24-5	24-7	24-10	25-0	25-3	25-5
575	25-9	26-0	26-3	26-5	26-8	26-11	27-2	27-4	27-7	27-10
600	28-0	28-3	28-7	28-10	29-1	29-4	29-7	29-10	30-1	30-4
625	30-5	30-8	31-0	31-3	31-6	31-10	32-1	32-4	32-7	32-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.87

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.001	0.64	1954	0.63	2000*
20	0	0	0	0.481	0.27	2198	0.27	2228
30	0	0	0	0.481	0.29	2071	0.28	2112
40	0	0	0	0.481	0.31	1945	0.3	1996
50	0	0	0	0.481	0.33	1821	0.32	1880
60	0	0	0	0.481	0.35	1697	0.34	1763
70	0	0	0	0.481	0.38	1575	0.37	1647
80	0	0	0	0.481	0.41	1456	0.39	1532
90	0	0	0	0.481	0.45	1339	0.42	1418
100	0	0	0	0.481	0.49	1225	0.46	1305
110	0	0	0	0.481	0.54	1116	0.5	1196
120	0	0	0	0.481	0.59	1013	0.55	1090
130	0	0	0	0.481	0.66	917	0.61	990
167	0	0	0	0.481	0.93	647	0.86	695
212	0	0	0	0.481	1.28	471	1.2	503

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.001	2.51	1996	2.51	2000*
20	0	0	0	0.481	1.28	1873	1.28	1882
30	0	0	0	0.481	1.36	1765	1.35	1781
40	0	0	0	0.481	1.45	1661	1.43	1682
50	0	0	0	0.481	1.54	1561	1.52	1586
60	0	0	0	0.481	1.64	1465	1.61	1494
70	0	0	0	0.481	1.75	1375	1.71	1405
80	0	0	0	0.481	1.86	1290	1.82	1320
90	0	0	0	0.481	1.99	1211	1.94	1241
100	0	0	0	0.481	2.11	1139	2.06	1167
110	0	0	0	0.481	2.25	1072	2.19	1098
120	0	0	0	0.481	2.38	1010	2.33	1035
130	0	0	0	0.481	2.52	955	2.46	977
167	0	0	0	0.481	3.04	791	2.99	806
212	0	0	0	0.481	3.6	669	3.53	683

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.88

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.001	5.64	2000	5.64	2000*
20	0	0	0	0.481	3.65	1483	3.61	1499
30	0	0	0	0.481	3.82	1416	3.78	1433
40	0	0	0	0.481	4	1354	3.95	1371
50	0	0	0	0.481	4.18	1295	4.12	1313
60	0	0	0	0.481	4.36	1241	4.3	1259
70	0	0	0	0.481	4.55	1191	4.48	1208
80	0	0	0	0.481	4.73	1145	4.67	1161
90	0	0	0	0.481	4.92	1102	4.85	1117
100	0	0	0	0.481	5.1	1062	5.03	1076
110	0	0	0	0.481	5.29	1025	5.22	1038
120	0	0	0	0.481	5.47	991	5.4	1003
130	0	0	0	0.481	5.65	959	5.59	970
167	0	0	0	0.481	6.31	860	6.25	867
212	0	0	0	0.481	7.01	773	6.94	782

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.001	10.04	2000	10.04	2000*
20	0	0	0	0.481	7.71	1250	7.63	1262
30	0	0	0	0.481	7.93	1215	7.85	1227
40	0	0	0	0.481	8.15	1182	8.07	1194
50	0	0	0	0.481	8.37	1151	8.29	1163
60	0	0	0	0.481	8.59	1122	8.5	1133
70	0	0	0	0.481	8.8	1095	8.72	1105
80	0	0	0	0.481	9.02	1069	8.93	1079
90	0	0	0	0.481	9.23	1045	9.15	1054
100	0	0	0	0.481	9.44	1022	9.36	1030
110	0	0	0	0.481	9.64	1000	9.57	1008
120	0	0	0	0.481	9.85	979	9.77	987
130	0	0	0	0.481	10.05	960	9.98	966
167	0	0	0	0.481	10.78	895	10.72	900
212	0	0	0	0.481	11.58	833	11.5	839

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.89

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.001	15.71	2000	15.71	2000*
20	0	0	0	0.481	13.25	1137	13.16	1145
30	0	0	0	0.481	13.49	1117	13.39	1125
40	0	0	0	0.481	13.72	1099	13.63	1106
50	0	0	0	0.481	13.95	1081	13.86	1088
60	0	0	0	0.481	14.18	1063	14.09	1070
70	0	0	0	0.481	14.41	1047	14.32	1053
80	0	0	0	0.481	14.63	1031	14.54	1037
90	0	0	0	0.481	14.85	1016	14.77	1022
100	0	0	0	0.481	15.07	1001	14.99	1006
110	0	0	0	0.481	15.29	987	15.21	992
120	0	0	0	0.481	15.51	973	15.43	978
130	0	0	0	0.481	15.72	960	15.64	965
167	0	0	0	0.481	16.49	915	16.43	919
212	0	0	0	0.481	17.36	870	17.28	874

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.90

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
100	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6
125	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9
150	0-7	0-8	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-2
175	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-4	1-5	1-6
200	1-1	1-2	1-2	1-3	1-4	1-6	1-7	1-8	1-10	2-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
100	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6
125	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10
150	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-3
175	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8
200	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.91

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-7
125	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10
150	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3
175	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
200	1-3	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-1	2-2
225	1-7	1-9	1-10	1-11	2-0	2-2	2-4	2-5	2-7	2-9
250	2-0	2-1	2-3	2-4	2-6	2-8	2-10	3-0	3-3	3-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7
125	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11
150	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-3
175	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9
200	1-3	1-4	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-3
225	1-8	1-9	1-10	1-11	2-1	2-3	2-4	2-6	2-8	2-10
250	2-0	2-2	2-3	2-5	2-7	2-9	2-11	3-1	3-4	3-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.92

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-3	1-4
175	1-3	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-9
200	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
225	2-0	2-1	2-3	2-4	2-5	2-6	2-7	2-9	2-10	2-11
250	2-6	2-7	2-9	2-10	3-0	3-1	3-3	3-4	3-6	3-7
275	3-0	3-2	3-4	3-6	3-7	3-9	3-11	4-1	4-3	4-5
300	3-7	3-9	3-11	4-1	4-4	4-6	4-8	4-10	5-0	5-3
325	4-3	4-5	4-8	4-10	5-1	5-3	5-6	5-8	5-11	6-2
350	4-11	5-2	5-4	5-7	5-10	6-1	6-4	6-7	6-10	7-1
375	5-8	5-11	6-2	6-5	6-9	7-0	7-3	7-7	7-10	8-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4
175	1-3	1-4	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10
200	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
225	2-1	2-2	2-3	2-4	2-5	2-7	2-8	2-9	2-10	3-0
250	2-6	2-8	2-9	2-11	3-0	3-2	3-3	3-5	3-7	3-8
275	3-1	3-3	3-4	3-6	3-8	3-10	4-0	4-2	4-3	4-5
300	3-8	3-10	4-0	4-2	4-4	4-7	4-9	4-11	5-1	5-3
325	4-3	4-6	4-8	4-11	5-1	5-4	5-7	5-9	6-0	6-2
350	5-0	5-2	5-5	5-8	5-11	6-2	6-5	6-8	6-11	7-2
375	5-8	6-0	6-3	6-6	6-10	7-1	7-5	7-8	8-0	8-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.93

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	---	---	---	---	---	---	---	---	---	---
200	1-11	2-0	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-5
225	2-5	2-6	2-7	2-7	2-8	2-9	2-10	2-11	3-0	3-0
250	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
275	3-7	3-9	3-10	3-11	4-0	4-1	4-3	4-4	4-5	4-6
300	4-4	4-5	4-6	4-8	4-9	4-11	5-0	5-2	5-3	5-5
325	5-0	5-2	5-4	5-6	5-7	5-9	5-11	6-0	6-2	6-4
350	5-10	6-0	6-2	6-4	6-6	6-8	6-10	7-0	7-2	7-4
375	6-8	6-11	7-1	7-3	7-6	7-8	7-10	8-0	8-3	8-5
400	7-8	7-10	8-1	8-3	8-6	8-9	8-11	9-2	9-4	9-7
425	8-7	8-10	9-1	9-4	9-7	9-10	10-1	10-4	10-7	10-10
450	9-8	9-11	10-3	10-6	10-9	11-0	11-4	11-7	11-10	12-1
475	10-9	11-1	11-5	11-8	12-0	12-4	12-7	12-11	13-2	13-6
500	11-11	12-3	12-7	12-11	13-3	13-8	14-0	14-4	14-8	14-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	---	---	---	---	---	---	---	---	---	---
200	1-11	2-0	2-0	2-1	2-2	2-2	2-3	2-4	2-4	2-5
225	2-5	2-6	2-7	2-8	2-9	2-9	2-10	2-11	3-0	3-1
250	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
275	3-8	3-9	3-10	3-11	4-1	4-2	4-3	4-4	4-6	4-7
300	4-4	4-6	4-7	4-8	4-10	4-11	5-1	5-2	5-4	5-5
325	5-1	5-3	5-5	5-6	5-8	5-10	5-11	6-1	6-3	6-4
350	5-11	6-1	6-3	6-5	6-7	6-9	6-11	7-1	7-3	7-5
375	6-9	7-0	7-2	7-4	7-7	7-9	7-11	8-1	8-4	8-6
400	7-9	7-11	8-2	8-4	8-7	8-10	9-0	9-3	9-5	9-8
425	8-8	8-11	9-2	9-5	9-8	9-11	10-2	10-5	10-8	10-11
450	9-9	10-0	10-4	10-7	10-10	11-2	11-5	11-8	11-11	12-2
475	10-10	11-2	11-6	11-10	12-1	12-5	12-9	13-0	13-4	13-7
500	12-1	12-5	12-9	13-1	13-5	13-9	14-1	14-5	14-9	15-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.94

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	3-3	3-4	3-5	3-6	3-6	3-7	3-8	3-8	3-9	3-10
275	4-0	4-1	4-1	4-2	4-3	4-4	4-5	4-6	4-6	4-7
300	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6
325	5-7	5-8	5-9	5-10	5-11	6-1	6-2	6-3	6-4	6-5
350	6-5	6-7	6-8	6-9	6-11	7-0	7-1	7-3	7-4	7-5
375	7-5	7-6	7-8	7-10	7-11	8-1	8-2	8-4	8-5	8-7
400	8-5	8-7	8-9	8-10	9-0	9-2	9-4	9-5	9-7	9-9
425	9-6	9-8	9-10	10-0	10-2	10-4	10-6	10-8	10-10	11-0
450	10-8	10-10	11-0	11-3	11-5	11-7	11-9	11-11	12-2	12-4
475	11-11	12-1	12-4	12-6	12-9	12-11	13-1	13-4	13-6	13-9
500	13-2	13-5	13-8	13-10	14-1	14-4	14-6	14-9	15-0	15-3
525	14-6	14-9	15-0	15-3	15-6	15-9	16-0	16-3	16-6	16-9
550	15-11	16-3	16-6	16-9	17-1	17-4	17-7	17-10	18-2	18-5
575	17-5	17-9	18-0	18-4	18-8	18-11	19-3	19-6	19-10	20-1
600	19-0	19-4	19-8	20-0	20-4	20-7	20-11	21-3	21-7	21-11
625	20-7	20-11	21-4	21-8	22-0	22-5	22-9	23-1	23-5	23-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	3-4	3-4	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10
275	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-6	4-7	4-7
300	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6
325	5-7	5-8	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5
350	6-6	6-7	6-9	6-10	6-11	7-1	7-2	7-3	7-5	7-6
375	7-5	7-7	7-9	7-10	8-0	8-1	8-3	8-4	8-6	8-7
400	8-6	8-8	8-9	8-11	9-1	9-3	9-4	9-6	9-8	9-9
425	9-7	9-9	9-11	10-1	10-3	10-5	10-7	10-9	10-11	11-1
450	10-9	10-11	11-1	11-4	11-6	11-8	11-10	12-0	12-2	12-5
475	12-0	12-2	12-5	12-7	12-10	13-0	13-2	13-5	13-7	13-10
500	13-3	13-6	13-9	13-11	14-2	14-5	14-8	14-10	15-1	15-3
525	14-7	14-10	15-2	15-5	15-8	15-11	16-2	16-5	16-7	16-10
550	16-0	16-4	16-7	16-11	17-2	17-5	17-9	18-0	18-3	18-6
575	17-6	17-10	18-2	18-6	18-9	19-1	19-4	19-8	19-11	20-3
600	19-1	19-5	19-9	20-1	20-5	20-9	21-1	21-5	21-9	22-0
625	20-9	21-1	21-5	21-10	22-2	22-6	22-11	23-3	23-7	23-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.95

Span = 100 ft

Design Condition Cond.	Ice	Wind	K	Weight	Final Sag	Final Tension	Initial Sag	Initial Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.001	1.25	1000	1.25	1000*
0	0	0	0	0.481	0.74	811	0.73	819
30	0	0	0	0.481	0.99	608	0.97	618
40	0	0	0	0.481	1.08	558	1.06	567
50	0	0	0	0.481	1.17	516	1.15	523
60	0	0	0	0.481	1.25	479	1.24	486
70	0	0	0	0.481	1.34	448	1.33	454
80	0	0	0	0.481	1.43	422	1.41	426
90	0	0	0	0.481	1.51	399	1.5	402
100	0	0	0	0.481	1.59	378	1.58	381
110	0	0	0	0.481	1.67	361	1.66	363
120	0	0	0	0.481	1.74	345	1.72	349
130	0	0	0	0.481	1.82	331	1.79	336
167	0	0	0	0.481	2.05	294	2.02	298
212	0	0	0	0.481	2.31	261	2.28	264

* Design Condition

Span = 200 ft

Design Condition Cond.	Ice	Wind	K	Weight	Final Sag	Final Tension	Initial Sag	Initial Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.001	5.02	1000	5.02	1000*
0	0	0	0	0.481	4.34	556	4.31	559
30	0	0	0	0.481	4.69	514	4.66	517
40	0	0	0	0.481	4.8	502	4.78	505
50	0	0	0	0.481	4.91	491	4.89	493
60	0	0	0	0.481	5.02	480	5	482
70	0	0	0	0.481	5.13	470	5.11	472
80	0	0	0	0.481	5.24	461	5.22	462
90	0	0	0	0.481	5.34	452	5.33	453
100	0	0	0	0.481	5.44	443	5.43	444
110	0	0	0	0.481	5.54	435	5.54	436
120	0	0	0	0.481	5.64	427	5.63	428
130	0	0	0	0.481	5.74	420	5.72	422
167	0	0	0	0.481	6.07	398	6.04	400
212	0	0	0	0.481	6.44	375	6.41	377

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.96

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.001	11.33	1000	11.33	1000*
0	0	0	0	0.481	10.63	511	10.6	513
30	0	0	0	0.481	10.99	495	10.96	496
40	0	0	0	0.481	11.1	490	11.08	491
50	0	0	0	0.481	11.22	485	11.2	486
60	0	0	0	0.481	11.33	480	11.31	481
70	0	0	0	0.481	11.45	475	11.43	476
80	0	0	0	0.481	11.56	471	11.54	472
90	0	0	0	0.481	11.67	466	11.66	467
100	0	0	0	0.481	11.78	462	11.77	463
110	0	0	0	0.481	11.89	458	11.88	458
120	0	0	0	0.481	12	454	11.99	454
130	0	0	0	0.481	12.11	450	12.09	451
167	0	0	0	0.481	12.47	437	12.44	438
212	0	0	0	0.481	12.89	423	12.86	424

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.001	20.23	1000	20.23	1000*
0	0	0	0	0.481	19.53	497	19.5	498
30	0	0	0	0.481	19.89	488	19.86	489
40	0	0	0	0.481	20.01	486	19.98	486
50	0	0	0	0.481	20.12	483	20.1	484
60	0	0	0	0.481	20.24	480	20.22	481
70	0	0	0	0.481	20.35	478	20.33	478
80	0	0	0	0.481	20.47	475	20.45	475
90	0	0	0	0.481	20.58	472	20.57	473
100	0	0	0	0.481	20.69	470	20.68	470
110	0	0	0	0.481	20.81	467	20.8	468
120	0	0	0	0.481	20.92	465	20.91	465
130	0	0	0	0.481	21.03	462	21.02	463
167	0	0	0	0.481	21.42	454	21.39	455
212	0	0	0	0.481	21.86	445	21.83	446

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.97

Span = 500 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.001	31.8	1000	31.8	1000*
0	0	0	0	0.481	31.1	491	31.07	491
30	0	0	0	0.481	31.46	485	31.43	486
40	0	0	0	0.481	31.57	484	31.55	484
50	0	0	0	0.481	31.69	482	31.67	482
60	0	0	0	0.481	31.81	480	31.78	481
70	0	0	0	0.481	31.92	479	31.9	479
80	0	0	0	0.481	32.04	477	32.02	477
90	0	0	0	0.481	32.15	475	32.14	475
100	0	0	0	0.481	32.27	474	32.26	474
110	0	0	0	0.481	32.38	472	32.37	472
120	0	0	0	0.481	32.5	470	32.49	470
130	0	0	0	0.481	32.61	469	32.6	469
167	0	0	0	0.481	33	463	32.98	464
212	0	0	0	0.481	33.46	457	33.44	458

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.98

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11
100	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
125	1-5	1-6	1-8	1-10	1-11	2-1	2-2	2-4	2-6	2-7
150	2-0	2-2	2-5	2-7	2-9	3-0	3-2	3-4	3-7	3-9
175	2-9	3-0	3-3	3-6	3-10	4-1	4-4	4-7	4-10	5-1
200	3-7	3-11	4-3	4-7	4-11	5-4	5-8	6-0	6-4	6-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11
100	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
125	1-5	1-7	1-8	1-10	2-0	2-1	2-3	2-4	2-6	2-7
150	2-0	2-3	2-5	2-8	2-10	3-0	3-3	3-5	3-7	3-9
175	2-9	3-0	3-4	3-7	3-10	4-1	4-4	4-8	4-10	5-1
200	3-7	4-0	4-4	4-8	5-0	5-4	5-9	6-1	6-4	6-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.99

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-2	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-4	1-5
125	1-9	1-10	1-10	1-11	1-11	2-0	2-0	2-1	2-1	2-2
150	2-7	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-1	3-1
175	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3
200	4-7	4-8	4-9	4-11	5-0	5-1	5-3	5-4	5-5	5-6
225	5-9	5-11	6-1	6-2	6-4	6-6	6-7	6-9	6-11	7-0
250	7-1	7-3	7-6	7-8	7-10	8-0	8-2	8-4	8-6	8-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-2	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-4	1-5
125	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-1	2-2	2-2
150	2-7	2-8	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-1
175	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3
200	4-7	4-8	4-10	4-11	5-0	5-2	5-3	5-4	5-5	5-7
225	5-9	5-11	6-1	6-3	6-4	6-6	6-8	6-9	6-11	7-0
250	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-6	8-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.100

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-8	2-9	2-9	2-10	2-10	2-10	2-11	2-11	2-11	3-0
175	3-8	3-9	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-0
200	4-10	4-10	4-11	5-0	5-0	5-1	5-1	5-2	5-3	5-3
225	6-1	6-2	6-3	6-4	6-4	6-5	6-6	6-7	6-7	6-8
250	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3
275	9-1	9-2	9-4	9-5	9-6	9-7	9-8	9-9	9-11	10-0
300	10-10	11-0	11-1	11-2	11-4	11-5	11-7	11-8	11-9	11-11
325	12-9	12-10	13-0	13-2	13-3	13-5	13-7	13-8	13-10	13-11
350	14-9	14-11	15-1	15-3	15-5	15-7	15-9	15-11	16-0	16-2
375	16-11	17-2	17-4	17-6	17-8	17-10	18-1	18-3	18-5	18-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-9	2-9	2-9	2-10	2-10	2-10	2-11	2-11	2-11	3-0
175	3-8	3-9	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-0
200	4-10	4-11	4-11	5-0	5-0	5-1	5-2	5-2	5-3	5-3
225	6-1	6-2	6-3	6-4	6-4	6-5	6-6	6-7	6-7	6-8
250	7-7	7-8	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3
275	9-2	9-3	9-4	9-5	9-6	9-7	9-9	9-10	9-11	10-0
300	10-10	11-0	11-1	11-3	11-4	11-5	11-7	11-8	11-9	11-11
325	12-9	12-11	13-0	13-2	13-4	13-5	13-7	13-8	13-10	14-0
350	14-10	15-0	15-1	15-3	15-5	15-7	15-9	15-11	16-1	16-2
375	17-0	17-2	17-4	17-7	17-9	17-11	18-1	18-3	18-5	18-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.101

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	4-11	4-11	5-0	5-0	5-0	5-1	5-1	5-2	5-2	5-2
225	6-3	6-3	6-4	6-4	6-5	6-5	6-5	6-6	6-6	6-7
250	7-8	7-9	7-9	7-10	7-11	7-11	8-0	8-0	8-1	8-1
275	9-4	9-4	9-5	9-6	9-6	9-7	9-8	9-8	9-9	9-10
300	11-1	11-2	11-3	11-3	11-4	11-5	11-6	11-7	11-7	11-8
325	13-0	13-1	13-2	13-3	13-4	13-5	13-6	13-7	13-8	13-9
350	15-1	15-2	15-3	15-5	15-6	15-7	15-8	15-9	15-10	15-11
375	17-4	17-5	17-7	17-8	17-9	17-10	18-0	18-1	18-2	18-3
400	19-9	19-10	20-0	20-1	20-3	20-4	20-5	20-7	20-8	20-10
425	22-4	22-5	22-7	22-8	22-10	23-0	23-1	23-3	23-4	23-6
450	25-0	25-2	25-4	25-6	25-7	25-9	25-11	26-1	26-2	26-4
475	27-10	28-1	28-3	28-5	28-7	28-9	28-11	29-1	29-2	29-4
500	30-11	31-1	31-3	31-6	31-8	31-10	32-0	32-2	32-5	32-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	4-11	5-0	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-2
225	6-3	6-3	6-4	6-4	6-5	6-5	6-6	6-6	6-6	6-7
250	7-8	7-9	7-10	7-10	7-11	7-11	8-0	8-0	8-1	8-1
275	9-4	9-5	9-5	9-6	9-7	9-7	9-8	9-9	9-9	9-10
300	11-1	11-2	11-3	11-4	11-4	11-5	11-6	11-7	11-7	11-8
325	13-0	13-1	13-2	13-3	13-4	13-5	13-6	13-7	13-8	13-9
350	15-2	15-3	15-4	15-5	15-6	15-7	15-8	15-9	15-10	15-11
375	17-4	17-6	17-7	17-8	17-9	17-11	18-0	18-1	18-2	18-3
400	19-9	19-11	20-0	20-1	20-3	20-4	20-6	20-7	20-8	20-10
425	22-4	22-6	22-7	22-9	22-10	23-0	23-1	23-3	23-4	23-6
450	25-1	25-2	25-4	25-6	25-8	25-9	25-11	26-1	26-3	26-4
475	27-11	28-1	28-3	28-5	28-7	28-9	28-11	29-1	29-3	29-5
500	30-11	31-2	31-4	31-6	31-8	31-10	32-1	32-3	32-5	32-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.102

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	7-10	7-10	7-10	7-11	7-11	7-11	8-0	8-0	8-0	8-1
275	9-5	9-6	9-6	9-7	9-7	9-7	9-8	9-8	9-9	9-9
300	11-3	11-3	11-4	11-4	11-5	11-5	11-6	11-6	11-7	11-7
325	13-2	13-3	13-3	13-4	13-5	13-5	13-6	13-6	13-7	13-8
350	15-4	15-4	15-5	15-6	15-6	15-7	15-8	15-8	15-9	15-10
375	17-7	17-8	17-8	17-9	17-10	17-11	18-0	18-0	18-1	18-2
400	20-0	20-1	20-2	20-3	20-4	20-5	20-5	20-6	20-7	20-8
425	22-7	22-8	22-9	22-10	22-11	23-0	23-1	23-2	23-3	23-4
450	25-4	25-5	25-6	25-7	25-9	25-10	25-11	26-0	26-1	26-2
475	28-3	28-4	28-5	28-7	28-8	28-9	28-11	29-0	29-1	29-2
500	31-4	31-5	31-7	31-8	31-9	31-11	32-0	32-2	32-3	32-4
525	34-6	34-8	34-10	34-11	35-1	35-2	35-4	35-5	35-7	35-9
550	37-11	38-1	38-3	38-4	38-6	38-8	38-9	38-11	39-1	39-3
575	41-6	41-8	41-9	41-11	42-1	42-3	42-5	42-7	42-9	42-11
600	45-2	45-4	45-6	45-8	45-11	46-1	46-3	46-5	46-7	46-9
625	49-1	49-3	49-5	49-7	49-10	50-0	50-2	50-4	50-7	50-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	7-10	7-10	7-10	7-11	7-11	7-11	8-0	8-0	8-0	8-1
275	9-5	9-6	9-6	9-7	9-7	9-7	9-8	9-8	9-9	9-9
300	11-3	11-3	11-4	11-4	11-5	11-5	11-6	11-6	11-7	11-7
325	13-2	13-3	13-4	13-4	13-5	13-5	13-6	13-7	13-7	13-8
350	15-4	15-4	15-5	15-6	15-7	15-7	15-8	15-9	15-9	15-10
375	17-7	17-8	17-9	17-9	17-10	17-11	18-0	18-1	18-1	18-2
400	20-0	20-1	20-2	20-3	20-4	20-5	20-6	20-6	20-7	20-8
425	22-7	22-8	22-9	22-10	22-11	23-0	23-1	23-2	23-3	23-4
450	25-4	25-5	25-7	25-8	25-9	25-10	25-11	26-0	26-1	26-2
475	28-3	28-4	28-6	28-7	28-8	28-10	28-11	29-0	29-1	29-3
500	31-4	31-5	31-7	31-8	31-10	31-11	32-0	32-2	32-3	32-5
525	34-7	34-8	34-10	34-11	35-1	35-3	35-4	35-6	35-7	35-9
550	38-0	38-1	38-3	38-5	38-6	38-8	38-10	38-11	39-1	39-3
575	41-6	41-8	41-10	42-0	42-2	42-3	42-5	42-7	42-9	42-11
600	45-3	45-5	45-7	45-9	45-11	46-1	46-3	46-5	46-7	46-9
625	49-1	49-4	49-6	49-8	49-10	50-0	50-3	50-5	50-7	50-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.103

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.001	0.83	1500	0.83	1500*
0	0	0	0	0.481	0.4	1519	0.4	1519
30	0	0	0	0.481	0.51	1176	0.5	1193
40	0	0	0	0.481	0.56	1070	0.55	1090
50	0	0	0	0.481	0.62	970	0.61	992
60	0	0	0	0.481	0.69	877	0.67	899
70	0	0	0	0.481	0.76	793	0.74	815
80	0	0	0	0.481	0.84	718	0.81	738
90	0	0	0	0.481	0.92	652	0.9	671
100	0	0	0	0.481	1.01	596	0.98	612
110	0	0	0	0.481	1.1	548	1.07	561
120	0	0	0	0.481	1.19	507	1.16	518
130	0	0	0	0.481	1.27	472	1.24	484
167	0	0	0	0.481	1.56	386	1.52	397
212	0	0	0	0.481	1.87	322	1.83	330

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.001	3.34	1500	3.34	1500*
0	0	0	0	0.481	2.23	1078	2.21	1091
30	0	0	0	0.481	2.65	909	2.61	922
40	0	0	0	0.481	2.79	863	2.75	876
50	0	0	0	0.481	2.93	822	2.89	833
60	0	0	0	0.481	3.07	784	3.03	795
70	0	0	0	0.481	3.21	750	3.17	760
80	0	0	0	0.481	3.35	719	3.31	728
90	0	0	0	0.481	3.48	691	3.44	699
100	0	0	0	0.481	3.62	666	3.58	673
110	0	0	0	0.481	3.75	642	3.71	648
120	0	0	0	0.481	3.88	621	3.85	626
130	0	0	0	0.481	4.01	601	3.98	606
167	0	0	0	0.481	4.44	542	4.39	548
212	0	0	0	0.481	4.91	491	4.86	496

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.001	7.53	1500	7.53	1500*
0	0	0	0	0.481	6.21	873	6.16	880
30	0	0	0	0.481	6.73	806	6.67	813
40	0	0	0	0.481	6.89	787	6.84	793
50	0	0	0	0.481	7.06	769	7	774
60	0	0	0	0.481	7.22	751	7.17	757
70	0	0	0	0.481	7.38	735	7.33	740
80	0	0	0	0.481	7.54	720	7.49	724
90	0	0	0	0.481	7.69	705	7.65	709
100	0	0	0	0.481	7.85	692	7.8	695
110	0	0	0	0.481	8	679	7.96	682
120	0	0	0	0.481	8.15	666	8.11	669
130	0	0	0	0.481	8.29	654	8.26	657
167	0	0	0	0.481	8.81	616	8.76	620
212	0	0	0	0.481	9.37	580	9.32	583

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.001	13.41	1500	13.41	1500*
0	0	0	0	0.481	12.04	802	11.98	806
30	0	0	0	0.481	12.57	768	12.51	772
40	0	0	0	0.481	12.75	758	12.69	761
50	0	0	0	0.481	12.92	748	12.86	751
60	0	0	0	0.481	13.09	738	13.03	741
70	0	0	0	0.481	13.25	729	13.2	732
80	0	0	0	0.481	13.42	720	13.37	723
90	0	0	0	0.481	13.58	711	13.54	714
100	0	0	0	0.481	13.75	703	13.7	705
110	0	0	0	0.481	13.91	695	13.87	697
120	0	0	0	0.481	14.07	687	14.03	689
130	0	0	0	0.481	14.22	680	14.19	681
167	0	0	0	0.481	14.79	654	14.74	656
212	0	0	0	0.481	15.41	628	15.35	630

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.105

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.001	21.01	1500	21.01	1500*
0	0	0	0	0.481	19.63	771	19.56	773
30	0	0	0	0.481	20.16	751	20.1	753
40	0	0	0	0.481	20.33	744	20.27	746
50	0	0	0	0.481	20.51	738	20.45	740
60	0	0	0	0.481	20.68	732	20.62	734
70	0	0	0	0.481	20.85	726	20.8	728
80	0	0	0	0.481	21.02	720	20.97	722
90	0	0	0	0.481	21.19	715	21.14	716
100	0	0	0	0.481	21.35	709	21.31	710
110	0	0	0	0.481	21.52	704	21.48	705
120	0	0	0	0.481	21.69	698	21.65	700
130	0	0	0	0.481	21.85	693	21.82	694
167	0	0	0	0.481	22.45	675	22.4	677
212	0	0	0	0.481	23.09	656	23.04	658

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.106

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-3	0-3	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-7
100	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1
125	0-9	0-9	0-10	0-11	1-1	1-2	1-3	1-5	1-6	1-8
150	1-0	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-3	2-5
175	1-5	1-7	1-8	1-10	2-1	2-3	2-6	2-9	3-0	3-3
200	1-10	2-0	2-2	2-5	2-8	2-11	3-3	3-7	3-11	4-3

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
100	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1
125	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-9
150	1-1	1-2	1-3	1-5	1-7	1-8	1-11	2-1	2-3	2-6
175	1-5	1-7	1-9	1-11	2-1	2-4	2-7	2-10	3-1	3-4
200	1-10	2-1	2-3	2-6	2-9	3-0	3-4	3-8	4-0	4-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.107

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-10	0-11	0-11
125	1-0	1-0	1-1	1-2	1-2	1-3	1-3	1-4	1-5	1-5
150	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-11	2-0	2-1
175	1-11	2-0	2-1	2-3	2-4	2-5	2-6	2-8	2-9	2-10
200	2-6	2-7	2-9	2-11	3-0	3-2	3-4	3-5	3-7	3-9
225	3-2	3-4	3-6	3-8	3-10	4-0	4-2	4-4	4-6	4-8
250	3-10	4-1	4-4	4-6	4-9	4-11	5-2	5-5	5-7	5-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-8	0-8	0-8	0-9	0-9	0-10	0-10	0-10	0-11	0-11
125	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6
150	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-0	2-1
175	1-11	2-0	2-2	2-3	2-4	2-5	2-7	2-8	2-9	2-10
200	2-6	2-8	2-9	2-11	3-1	3-3	3-4	3-6	3-7	3-9
225	3-2	3-4	3-6	3-8	3-11	4-1	4-3	4-5	4-7	4-9
250	3-11	4-2	4-4	4-7	4-10	5-0	5-3	5-5	5-8	5-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.108

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-7	1-8	1-9	1-9	1-9	1-10	1-10	1-11	1-11	2-0
175	2-3	2-3	2-4	2-5	2-5	2-6	2-7	2-7	2-8	2-8
200	2-11	3-0	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-6
225	3-8	3-9	3-10	3-11	4-0	4-1	4-3	4-4	4-5	4-6
250	4-6	4-8	4-9	4-10	5-0	5-1	5-2	5-4	5-5	5-6
275	5-6	5-7	5-9	5-11	6-0	6-2	6-4	6-5	6-7	6-8
300	6-6	6-8	6-10	7-0	7-2	7-4	7-6	7-8	7-10	8-0
325	7-8	7-10	8-0	8-3	8-5	8-7	8-9	9-0	9-2	9-4
350	8-10	9-1	9-4	9-6	9-9	10-0	10-2	10-5	10-8	10-10
375	10-2	10-5	10-8	10-11	11-2	11-5	11-9	11-11	12-2	12-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-8	1-8	1-9	1-9	1-10	1-10	1-11	1-11	2-0	2-0
175	2-3	2-3	2-4	2-5	2-5	2-6	2-7	2-7	2-8	2-9
200	2-11	3-0	3-1	3-2	3-2	3-3	3-4	3-5	3-6	3-7
225	3-8	3-9	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6
250	4-7	4-8	4-9	4-11	5-0	5-1	5-3	5-4	5-5	5-7
275	5-6	5-8	5-9	5-11	6-1	6-2	6-4	6-6	6-7	6-9
300	6-7	6-9	6-11	7-1	7-3	7-5	7-6	7-8	7-10	8-0
325	7-8	7-11	8-1	8-3	8-6	8-8	8-10	9-0	9-3	9-5
350	8-11	9-2	9-5	9-7	9-10	10-1	10-3	10-6	10-8	10-11
375	10-3	10-6	10-9	11-0	11-3	11-6	11-9	12-0	12-3	12-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.109

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6
225	3-11	3-11	4-0	4-1	4-1	4-2	4-3	4-3	4-4	4-5
250	4-10	4-11	4-11	5-0	5-1	5-2	5-3	5-3	5-4	5-5
275	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7
300	6-11	7-0	7-2	7-3	7-4	7-5	7-6	7-7	7-8	7-10
325	8-2	8-3	8-4	8-6	8-7	8-9	8-10	8-11	9-0	9-2
350	9-5	9-7	9-9	9-10	10-0	10-1	10-3	10-4	10-6	10-7
375	10-10	11-0	11-2	11-4	11-5	11-7	11-9	11-11	12-1	12-2
400	12-4	12-6	12-8	12-10	13-0	13-2	13-4	13-6	13-8	13-10
425	13-11	14-2	14-4	14-6	14-9	14-11	15-1	15-3	15-6	15-8
450	15-7	15-10	16-1	16-3	16-6	16-9	16-11	17-2	17-4	17-7
475	17-5	17-8	17-11	18-2	18-5	18-8	18-10	19-1	19-4	19-7
500	19-4	19-7	19-10	20-1	20-5	20-8	20-11	21-2	21-5	21-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6
225	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-4	4-4	4-5
250	4-10	4-11	5-0	5-0	5-1	5-2	5-3	5-4	5-4	5-5
275	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7
300	7-0	7-1	7-2	7-3	7-4	7-5	7-7	7-8	7-9	7-10
325	8-2	8-4	8-5	8-6	8-8	8-9	8-10	9-0	9-1	9-2
350	9-6	9-7	9-9	9-11	10-0	10-2	10-3	10-5	10-6	10-8
375	10-11	11-1	11-2	11-4	11-6	11-8	11-10	11-11	12-1	12-3
400	12-5	12-7	12-9	12-11	13-1	13-3	13-5	13-7	13-9	13-11
425	14-0	14-2	14-5	14-7	14-9	15-0	15-2	15-4	15-6	15-8
450	15-8	15-11	16-2	16-4	16-7	16-9	17-0	17-2	17-5	17-7
475	17-6	17-9	18-0	18-3	18-6	18-8	18-11	19-2	19-5	19-7
500	19-5	19-8	19-11	20-2	20-6	20-9	21-0	21-3	21-6	21-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.110

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4
275	6-0	6-1	6-1	6-2	6-3	6-3	6-4	6-5	6-5	6-6
300	7-2	7-3	7-3	7-4	7-5	7-6	7-6	7-7	7-8	7-9
325	8-5	8-6	8-7	8-8	8-8	8-9	8-10	8-11	9-0	9-1
350	9-9	9-10	9-11	10-0	10-1	10-2	10-3	10-4	10-5	10-6
375	11-2	11-4	11-5	11-6	11-7	11-8	11-9	11-11	12-0	12-1
400	12-9	12-10	13-0	13-1	13-2	13-4	13-5	13-6	13-8	13-9
425	14-5	14-6	14-8	14-9	14-11	15-0	15-2	15-3	15-5	15-6
450	16-2	16-3	16-5	16-7	16-8	16-10	17-0	17-1	17-3	17-5
475	18-0	18-2	18-4	18-5	18-7	18-9	18-11	19-1	19-3	19-5
500	19-11	20-1	20-3	20-5	20-7	20-10	21-0	21-2	21-4	21-6
525	22-0	22-2	22-4	22-7	22-9	22-11	23-1	23-4	23-6	23-8
550	24-1	24-4	24-6	24-9	25-0	25-2	25-5	25-7	25-10	26-0
575	26-4	26-7	26-10	27-1	27-4	27-6	27-9	28-0	28-2	28-5
600	28-9	29-0	29-3	29-6	29-9	30-0	30-3	30-6	30-9	31-0
625	31-2	31-5	31-9	32-0	32-3	32-6	32-10	33-1	33-4	33-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4
275	6-0	6-1	6-2	6-2	6-3	6-4	6-4	6-5	6-5	6-6
300	7-2	7-3	7-4	7-4	7-5	7-6	7-7	7-7	7-8	7-9
325	8-5	8-6	8-7	8-8	8-9	8-10	8-10	8-11	9-0	9-1
350	9-9	9-10	9-11	10-0	10-1	10-2	10-3	10-4	10-5	10-6
375	11-3	11-4	11-5	11-6	11-7	11-9	11-10	11-11	12-0	12-1
400	12-9	12-11	13-0	13-1	13-3	13-4	13-5	13-7	13-8	13-9
425	14-5	14-7	14-8	14-10	14-11	15-1	15-2	15-4	15-5	15-6
450	16-2	16-4	16-6	16-7	16-9	16-11	17-0	17-2	17-3	17-5
475	18-0	18-2	18-4	18-6	18-8	18-10	19-0	19-1	19-3	19-5
500	20-0	20-2	20-4	20-6	20-8	20-10	21-0	21-2	21-4	21-6
525	22-0	22-3	22-5	22-7	22-10	23-0	23-2	23-4	23-7	23-9
550	24-2	24-5	24-7	24-10	25-0	25-3	25-5	25-8	25-10	26-1
575	26-5	26-8	26-11	27-2	27-4	27-7	27-10	28-0	28-3	28-6
600	28-10	29-1	29-4	29-7	29-10	30-1	30-4	30-6	30-9	31-0
625	31-3	31-6	31-10	32-1	32-4	32-7	32-11	33-2	33-5	33-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.111

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.001	0.63	2000	0.63	2000*
0	0	0	0	0.481	0.28	2110	0.28	2110
30	0	0	0	0.481	0.34	1748	0.34	1765
40	0	0	0	0.481	0.37	1626	0.36	1651
50	0	0	0	0.481	0.4	1505	0.39	1536
60	0	0	0	0.481	0.43	1387	0.42	1423
70	0	0	0	0.481	0.47	1272	0.46	1312
80	0	0	0	0.481	0.52	1161	0.5	1203
90	0	0	0	0.481	0.57	1055	0.55	1098
100	0	0	0	0.481	0.63	956	0.6	998
110	0	0	0	0.481	0.7	864	0.67	904
120	0	0	0	0.481	0.77	781	0.74	818
130	0	0	0	0.481	0.85	708	0.81	740
167	0	0	0	0.481	1.15	522	1.1	547
212	0	0	0	0.481	1.5	402	1.44	419

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.001	2.51	2000	2.51	2000*
0	0	0	0	0.481	1.36	1771	1.35	1782
30	0	0	0	0.481	1.64	1471	1.61	1497
40	0	0	0	0.481	1.74	1380	1.71	1408
50	0	0	0	0.481	1.86	1295	1.82	1325
60	0	0	0	0.481	1.98	1216	1.93	1245
70	0	0	0	0.481	2.11	1143	2.05	1172
80	0	0	0	0.481	2.24	1075	2.18	1103
90	0	0	0	0.481	2.37	1014	2.31	1040
100	0	0	0	0.481	2.51	958	2.45	982
110	0	0	0	0.481	2.65	907	2.59	929
120	0	0	0	0.481	2.79	862	2.73	881
130	0	0	0	0.481	2.93	820	2.87	837
167	0	0	0	0.481	3.44	699	3.38	713
212	0	0	0	0.481	3.97	607	3.9	618

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.112

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.001	5.64	2000	5.64	2000*
0	0	0	0	0.481	3.82	1416	3.77	1435
30	0	0	0	0.481	4.36	1241	4.29	1261
40	0	0	0	0.481	4.55	1191	4.47	1211
50	0	0	0	0.481	4.73	1145	4.65	1164
60	0	0	0	0.481	4.92	1102	4.84	1120
70	0	0	0	0.481	5.1	1062	5.02	1079
80	0	0	0	0.481	5.29	1025	5.2	1041
90	0	0	0	0.481	5.47	991	5.39	1006
100	0	0	0	0.481	5.65	959	5.57	973
110	0	0	0	0.481	5.83	930	5.75	942
120	0	0	0	0.481	6.01	902	5.93	914
130	0	0	0	0.481	6.18	877	6.11	887
167	0	0	0	0.481	6.81	796	6.75	803
212	0	0	0	0.481	7.48	725	7.4	733

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.001	10.04	2000	10.04	2000*
0	0	0	0	0.481	7.93	1215	7.84	1228
30	0	0	0	0.481	8.59	1122	8.49	1135
40	0	0	0	0.481	8.8	1095	8.71	1107
50	0	0	0	0.481	9.02	1069	8.92	1081
60	0	0	0	0.481	9.23	1045	9.13	1056
70	0	0	0	0.481	9.44	1022	9.34	1032
80	0	0	0	0.481	9.64	1000	9.55	1010
90	0	0	0	0.481	9.85	979	9.76	988
100	0	0	0	0.481	10.05	960	9.96	968
110	0	0	0	0.481	10.25	941	10.16	949
120	0	0	0	0.481	10.45	923	10.36	931
130	0	0	0	0.481	10.64	906	10.56	913
167	0	0	0	0.481	11.35	850	11.28	855
212	0	0	0	0.481	12.11	797	12.03	802

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.001	15.71	2000	15.71	2000*
0	0	0	0	0.481	13.49	1117	13.38	1126
30	0	0	0	0.481	14.18	1063	14.07	1071
40	0	0	0	0.481	14.41	1047	14.3	1054
50	0	0	0	0.481	14.63	1031	14.53	1038
60	0	0	0	0.481	14.85	1016	14.75	1023
70	0	0	0	0.481	15.07	1001	14.97	1008
80	0	0	0	0.481	15.29	987	15.19	993
90	0	0	0	0.481	15.51	973	15.41	979
100	0	0	0	0.481	15.72	960	15.63	966
110	0	0	0	0.481	15.93	947	15.84	953
120	0	0	0	0.481	16.14	935	16.05	940
130	0	0	0	0.481	16.35	923	16.27	928
167	0	0	0	0.481	17.1	883	17.03	887
212	0	0	0	0.481	17.93	843	17.85	846

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4
100	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8
125	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0
150	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-3	1-4	1-6
175	1-0	1-1	1-1	1-2	1-4	1-5	1-6	1-8	1-10	2-0
200	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-2	2-5	2-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5
100	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-8
125	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1
150	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7
175	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-9	1-11	2-2
200	1-3	1-5	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.115

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-5	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-7	0-8
125	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0
150	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-5
175	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0
200	1-6	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-5	2-7
225	1-11	2-0	2-2	2-4	2-5	2-7	2-9	2-11	3-1	3-3
250	2-4	2-6	2-8	2-10	3-0	3-3	3-5	3-7	3-10	4-1

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8
125	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-0
150	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6
175	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-0
200	1-6	1-8	1-9	1-10	2-0	2-1	2-3	2-4	2-6	2-8
225	1-11	2-1	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4
250	2-5	2-7	2-9	2-11	3-1	3-3	3-6	3-9	3-11	4-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.116

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-4	1-5	1-5
175	1-5	1-6	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11
200	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
225	2-4	2-5	2-6	2-7	2-9	2-10	2-11	3-0	3-2	3-3
250	2-10	3-0	3-1	3-3	3-4	3-6	3-7	3-9	3-10	4-0
275	3-6	3-7	3-9	3-11	4-1	4-3	4-4	4-6	4-8	4-10
300	4-1	4-4	4-6	4-8	4-10	5-0	5-2	5-5	5-7	5-9
325	4-10	5-0	5-3	5-6	5-8	5-11	6-1	6-4	6-6	6-9
350	5-7	5-10	6-1	6-4	6-7	6-10	7-1	7-4	7-7	7-10
375	6-5	6-9	7-0	7-3	7-7	7-10	8-2	8-5	8-8	9-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5
175	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-10	1-11	2-0
200	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
225	2-4	2-5	2-7	2-8	2-9	2-10	3-0	3-1	3-2	3-3
250	2-11	3-0	3-2	3-3	3-5	3-7	3-8	3-10	3-11	4-1
275	3-6	3-8	3-10	4-0	4-2	4-3	4-5	4-7	4-9	4-11
300	4-2	4-4	4-7	4-9	4-11	5-1	5-3	5-6	5-8	5-10
325	4-11	5-1	5-4	5-7	5-9	6-0	6-2	6-5	6-8	6-10
350	5-8	5-11	6-2	6-5	6-8	6-11	7-2	7-5	7-8	7-11
375	6-6	6-10	7-1	7-5	7-8	8-0	8-3	8-7	8-10	9-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.117

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	2-1	2-1	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-6
225	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-3
250	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
275	3-11	4-0	4-1	4-3	4-4	4-5	4-6	4-7	4-8	4-10
300	4-8	4-9	4-11	5-0	5-2	5-3	5-4	5-6	5-7	5-9
325	5-6	5-7	5-9	5-11	6-0	6-2	6-4	6-5	6-7	6-8
350	6-4	6-6	6-8	6-10	7-0	7-2	7-4	7-6	7-7	7-9
375	7-3	7-6	7-8	7-10	8-0	8-3	8-5	8-7	8-9	8-11
400	8-3	8-6	8-8	8-11	9-2	9-4	9-7	9-9	10-0	10-2
425	9-4	9-7	9-10	10-1	10-4	10-7	10-9	11-0	11-3	11-6
450	10-6	10-9	11-0	11-3	11-7	11-10	12-1	12-4	12-7	12-10
475	11-8	12-0	12-3	12-7	12-11	13-2	13-6	13-9	14-1	14-4
500	12-11	13-3	13-7	13-11	14-3	14-7	14-11	15-3	15-7	15-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-6	2-6	2-7
225	2-8	2-9	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3
250	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
275	3-11	4-1	4-2	4-3	4-4	4-6	4-7	4-8	4-9	4-10
300	4-8	4-10	4-11	5-1	5-2	5-4	5-5	5-6	5-8	5-9
325	5-6	5-8	5-10	5-11	6-1	6-3	6-4	6-6	6-8	6-9
350	6-5	6-7	6-9	6-11	7-1	7-3	7-5	7-6	7-8	7-10
375	7-4	7-7	7-9	7-11	8-1	8-4	8-6	8-8	8-10	9-0
400	8-4	8-7	8-10	9-0	9-3	9-5	9-8	9-10	10-1	10-3
425	9-5	9-8	9-11	10-2	10-5	10-8	10-11	11-1	11-4	11-7
450	10-7	10-10	11-2	11-5	11-8	11-11	12-2	12-6	12-9	13-0
475	11-10	12-1	12-5	12-9	13-0	13-4	13-7	13-11	14-2	14-6
500	13-1	13-5	13-9	14-1	14-5	14-9	15-1	15-5	15-9	16-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.118

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	3-6	3-6	3-7	3-8	3-8	3-9	3-10	3-10	3-11	3-11
275	4-2	4-3	4-4	4-5	4-5	4-6	4-7	4-8	4-9	4-9
300	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-7	5-8
325	5-10	5-11	6-0	6-2	6-3	6-4	6-5	6-6	6-7	6-8
350	6-9	6-11	7-0	7-1	7-3	7-4	7-5	7-7	7-8	7-9
375	7-9	7-11	8-0	8-2	8-4	8-5	8-6	8-8	8-9	8-11
400	8-10	9-0	9-2	9-4	9-5	9-7	9-9	9-10	10-0	10-2
425	10-0	10-2	10-4	10-6	10-8	10-10	11-0	11-2	11-3	11-5
450	11-3	11-5	11-7	11-9	11-11	12-1	12-4	12-6	12-8	12-10
475	12-6	12-8	12-11	13-1	13-4	13-6	13-9	13-11	14-1	14-4
500	13-10	14-1	14-4	14-6	14-9	15-0	15-2	15-5	15-8	15-10
525	15-3	15-6	15-9	16-0	16-3	16-6	16-9	17-0	17-3	17-6
550	16-9	17-0	17-4	17-7	17-10	18-1	18-5	18-8	18-11	19-2
575	18-4	18-7	18-11	19-3	19-6	19-10	20-1	20-5	20-8	21-0
600	19-11	20-3	20-7	20-11	21-3	21-7	21-11	22-2	22-6	22-10
625	21-8	22-0	22-4	22-9	23-1	23-5	23-9	24-1	24-5	24-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	3-6	3-7	3-7	3-8	3-9	3-9	3-10	3-10	3-11	4-0
275	4-3	4-3	4-4	4-5	4-6	4-7	4-7	4-8	4-9	4-10
300	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9
325	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-7	6-8	6-9
350	6-10	6-11	7-1	7-2	7-3	7-5	7-6	7-7	7-8	7-10
375	7-10	8-0	8-1	8-3	8-4	8-6	8-7	8-9	8-10	8-11
400	8-11	9-1	9-3	9-4	9-6	9-8	9-9	9-11	10-1	10-2
425	10-1	10-3	10-5	10-7	10-9	10-11	11-1	11-2	11-4	11-6
450	11-4	11-6	11-8	11-10	12-0	12-2	12-5	12-7	12-9	12-11
475	12-7	12-10	13-0	13-2	13-5	13-7	13-10	14-0	14-2	14-5
500	13-11	14-2	14-5	14-8	14-10	15-1	15-3	15-6	15-9	15-11
525	15-5	15-8	15-11	16-2	16-5	16-7	16-10	17-1	17-4	17-7
550	16-11	17-2	17-5	17-9	18-0	18-3	18-6	18-9	19-0	19-3
575	18-6	18-9	19-1	19-4	19-8	19-11	20-3	20-6	20-10	21-1
600	20-1	20-5	20-9	21-1	21-5	21-9	22-0	22-4	22-8	22-11
625	21-10	22-2	22-6	22-11	23-3	23-7	23-11	24-3	24-7	24-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.119

Span = 100 ft

ign Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.58	1.98	1000	1.98	1000*
20	0	0	0	0.481	1.33	451	1.31	459
30	0	0	0	0.481	1.42	424	1.4	431
40	0	0	0	0.481	1.5	400	1.48	407
50	0	0	0	0.481	1.58	380	1.56	385
60	0	0	0	0.481	1.66	362	1.64	367
70	0	0	0	0.481	1.74	346	1.72	350
80	0	0	0	0.481	1.81	332	1.8	335
90	0	0	0	0.481	1.89	319	1.87	322
100	0	0	0	0.481	1.96	308	1.94	310
110	0	0	0	0.481	2.02	298	2	301
120	0	0	0	0.481	2.09	288	2.06	292
130	0	0	0	0.481	2.15	280	2.12	284
167	0	0	0	0.481	2.36	256	2.33	258
212	0	0	0	0.481	2.59	233	2.57	235

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.58	7.95	1000	7.95	1000*
20	0	0	0	0.481	7.32	330	7.29	332
30	0	0	0	0.481	7.39	327	7.37	328
40	0	0	0	0.481	7.47	324	7.45	325
50	0	0	0	0.481	7.55	320	7.53	321
60	0	0	0	0.481	7.63	317	7.6	318
70	0	0	0	0.481	7.7	314	7.68	315
80	0	0	0	0.481	7.78	311	7.76	312
90	0	0	0	0.481	7.85	308	7.84	309
100	0	0	0	0.481	7.92	305	7.91	306
110	0	0	0	0.481	8	303	7.98	303
120	0	0	0	0.481	8.07	300	8.04	301
130	0	0	0	0.481	8.14	298	8.11	299
167	0	0	0	0.481	8.38	289	8.35	290
212	0	0	0	0.481	8.66	280	8.63	281

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.120

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Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.58	18.03	1000	18.03	1000*
20	0	0	0	0.481	17.4	315	17.37	316
30	0	0	0	0.481	17.48	314	17.45	314
40	0	0	0	0.481	17.55	312	17.53	313
50	0	0	0	0.481	17.63	311	17.61	312
60	0	0	0	0.481	17.71	310	17.68	310
70	0	0	0	0.481	17.78	309	17.76	309
80	0	0	0	0.481	17.86	307	17.84	308
90	0	0	0	0.481	17.93	306	17.91	306
100	0	0	0	0.481	18	305	17.99	305
110	0	0	0	0.481	18.08	304	18.06	304
120	0	0	0	0.481	18.15	302	18.12	303
130	0	0	0	0.481	18.22	301	18.19	302
167	0	0	0	0.481	18.47	297	18.44	298
212	0	0	0	0.481	18.76	293	18.73	293

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.58	32.43	1000	32.43	1000*
20	0	0	0	0.481	31.8	310	31.77	310
30	0	0	0	0.481	31.88	309	31.85	310
40	0	0	0	0.481	31.95	309	31.93	309
50	0	0	0	0.481	32.03	308	32	308
60	0	0	0	0.481	32.1	307	32.08	308
70	0	0	0	0.481	32.18	307	32.16	307
80	0	0	0	0.481	32.25	306	32.23	306
90	0	0	0	0.481	32.33	305	32.31	306
100	0	0	0	0.481	32.4	305	32.39	305
110	0	0	0	0.481	32.48	304	32.45	304
120	0	0	0	0.481	32.55	303	32.52	304
130	0	0	0	0.481	32.62	303	32.59	303
167	0	0	0	0.481	32.87	301	32.84	301
212	0	0	0	0.481	33.17	298	33.14	298

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.121

Span = 500 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.58	51.46	1000	51.46	1000*
20	0	0	0	0.481	50.84	308	50.81	308
30	0	0	0	0.481	50.92	307	50.89	308
40	0	0	0	0.481	50.99	307	50.97	307
50	0	0	0	0.481	51.07	307	51.04	307
60	0	0	0	0.481	51.14	306	51.12	306
70	0	0	0	0.481	51.22	306	51.2	306
80	0	0	0	0.481	51.29	305	51.27	306
90	0	0	0	0.481	51.37	305	51.35	305
100	0	0	0	0.481	51.44	305	51.43	305
110	0	0	0	0.481	51.51	304	51.49	304
120	0	0	0	0.481	51.59	304	51.56	304
130	0	0	0	0.481	51.66	303	51.63	304
167	0	0	0	0.481	51.91	302	51.88	302
212	0	0	0	0.481	52.21	301	52.18	301

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2
100	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0
125	2-1	2-2	2-4	2-5	2-7	2-8	2-10	2-11	3-0	3-2
150	2-11	3-2	3-4	3-6	3-8	3-10	4-1	4-3	4-4	4-6
175	4-0	4-3	4-6	4-9	5-0	5-3	5-6	5-9	5-11	6-2
200	5-3	5-7	5-11	6-3	6-7	6-11	7-2	7-6	7-9	8-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2
100	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-11	2-0
125	2-1	2-3	2-4	2-6	2-7	2-9	2-10	2-11	3-1	3-2
150	3-0	3-2	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-7
175	4-1	4-4	4-7	4-10	5-1	5-4	5-7	5-9	6-0	6-2
200	5-4	5-8	6-0	6-4	6-8	7-0	7-3	7-7	7-10	8-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.123

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-10	1-10	1-10	1-11	1-11	1-11	1-11	1-11	2-0	2-0
125	2-10	2-10	2-11	2-11	3-0	3-0	3-0	3-1	3-1	3-1
150	4-1	4-2	4-2	4-3	4-3	4-4	4-4	4-5	4-5	4-6
175	5-7	5-8	5-8	5-9	5-10	5-11	5-11	6-0	6-1	6-1
200	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0
225	9-3	9-4	9-5	9-6	9-8	9-9	9-10	9-11	10-0	10-1
250	11-5	11-6	11-8	11-9	11-11	12-0	12-2	12-3	12-4	12-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-10	1-10	1-10	1-11	1-11	1-11	1-11	2-0	2-0	2-0
125	2-10	2-11	2-11	2-11	3-0	3-0	3-0	3-1	3-1	3-1
150	4-1	4-2	4-2	4-3	4-3	4-4	4-4	4-5	4-5	4-6
175	5-7	5-8	5-9	5-9	5-10	5-11	5-11	6-0	6-1	6-1
200	7-4	7-5	7-6	7-7	7-8	7-8	7-9	7-10	7-11	8-0
225	9-3	9-4	9-6	9-7	9-8	9-9	9-10	9-11	10-0	10-2
250	11-5	11-7	11-8	11-10	11-11	12-1	12-2	12-3	12-5	12-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.124

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	4-4	4-4	4-4	4-5	4-5	4-5	4-5	4-6	4-6	4-6
175	5-11	5-11	5-11	6-0	6-0	6-0	6-1	6-1	6-1	6-2
200	7-8	7-9	7-9	7-10	7-10	7-10	7-11	7-11	8-0	8-0
225	9-9	9-10	9-10	9-11	9-11	10-0	10-0	10-1	10-1	10-2
250	12-1	12-1	12-2	12-3	12-3	12-4	12-4	12-5	12-6	12-6
275	14-7	14-8	14-9	14-9	14-10	14-11	15-0	15-0	15-1	15-2
300	17-4	17-5	17-6	17-7	17-8	17-9	17-10	17-11	18-0	18-1
325	20-5	20-6	20-7	20-8	20-9	20-10	20-11	21-0	21-2	21-3
350	23-8	23-10	23-11	24-0	24-1	24-3	24-4	24-5	24-6	24-7
375	27-3	27-4	27-6	27-7	27-8	27-10	27-11	28-1	28-2	28-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	4-4	4-4	4-4	4-5	4-5	4-5	4-5	4-6	4-6	4-6
175	5-11	5-11	5-11	6-0	6-0	6-0	6-1	6-1	6-1	6-2
200	7-9	7-9	7-9	7-10	7-10	7-11	7-11	7-11	8-0	8-0
225	9-9	9-10	9-10	9-11	9-11	10-0	10-0	10-1	10-1	10-2
250	12-1	12-1	12-2	12-3	12-3	12-4	12-5	12-5	12-6	12-6
275	14-7	14-8	14-9	14-10	14-10	14-11	15-0	15-1	15-1	15-2
300	17-5	17-6	17-7	17-8	17-8	17-9	17-10	17-11	18-0	18-1
325	20-5	20-6	20-7	20-8	20-10	20-11	21-0	21-1	21-2	21-3
350	23-9	23-10	23-11	24-0	24-2	24-3	24-4	24-5	24-7	24-8
375	27-3	27-5	27-6	27-7	27-9	27-10	28-0	28-1	28-2	28-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.125

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	7-11	7-11	7-11	7-11	8-0	8-0	8-0	8-0	8-1	8-1
225	10-0	10-0	10-1	10-1	10-1	10-1	10-2	10-2	10-2	10-3
250	12-4	12-5	12-5	12-5	12-6	12-6	12-6	12-7	12-7	12-7
275	14-11	15-0	15-0	15-1	15-1	15-2	15-2	15-2	15-3	15-3
300	17-10	17-10	17-11	17-11	18-0	18-0	18-1	18-1	18-2	18-2
325	20-11	21-0	21-0	21-1	21-1	21-2	21-3	21-3	21-4	21-4
350	24-3	24-4	24-5	24-5	24-6	24-7	24-8	24-8	24-9	24-10
375	27-11	28-0	28-0	28-1	28-2	28-3	28-4	28-4	28-5	28-6
400	31-9	31-10	31-11	32-0	32-1	32-2	32-3	32-4	32-5	32-5
425	35-11	36-0	36-1	36-2	36-3	36-4	36-5	36-6	36-7	36-8
450	40-4	40-5	40-6	40-7	40-8	40-10	40-11	41-0	41-1	41-2
475	44-11	45-1	45-2	45-3	45-5	45-6	45-7	45-9	45-10	45-11
500	49-11	50-0	50-1	50-3	50-4	50-6	50-7	50-9	50-10	50-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	7-11	7-11	7-11	7-11	8-0	8-0	8-0	8-0	8-1	8-1
225	10-0	10-0	10-1	10-1	10-1	10-1	10-2	10-2	10-2	10-3
250	12-4	12-5	12-5	12-5	12-6	12-6	12-6	12-7	12-7	12-7
275	15-0	15-0	15-0	15-1	15-1	15-2	15-2	15-3	15-3	15-3
300	17-10	17-10	17-11	17-11	18-0	18-0	18-1	18-1	18-2	18-2
325	20-11	21-0	21-0	21-1	21-2	21-2	21-3	21-3	21-4	21-5
350	24-4	24-4	24-5	24-6	24-6	24-7	24-8	24-8	24-9	24-10
375	27-11	28-0	28-1	28-1	28-2	28-3	28-4	28-5	28-5	28-6
400	31-10	31-11	31-11	32-0	32-1	32-2	32-3	32-4	32-5	32-6
425	35-11	36-0	36-1	36-2	36-3	36-4	36-5	36-6	36-7	36-8
450	40-4	40-5	40-6	40-8	40-9	40-10	40-11	41-0	41-1	41-2
475	45-0	45-1	45-3	45-4	45-5	45-6	45-8	45-9	45-10	46-0
500	49-11	50-1	50-2	50-3	50-5	50-6	50-8	50-9	50-10	51-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.126

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	12-7	12-7	12-7	12-8	12-8	12-8	12-8	12-8	12-9	12-9
275	15-3	15-3	15-3	15-4	15-4	15-4	15-4	15-5	15-5	15-5
300	18-2	18-2	18-2	18-3	18-3	18-3	18-4	18-4	18-4	18-5
325	21-4	21-4	21-4	21-5	21-5	21-6	21-6	21-6	21-7	21-7
350	24-9	24-9	24-10	24-10	24-11	24-11	24-11	25-0	25-0	25-1
375	28-5	28-6	28-6	28-7	28-7	28-8	28-8	28-9	28-9	28-9
400	32-4	32-5	32-6	32-6	32-7	32-7	32-8	32-8	32-9	32-10
425	36-7	36-8	36-8	36-9	36-10	36-10	36-11	37-0	37-0	37-1
450	41-1	41-1	41-2	41-3	41-4	41-4	41-5	41-6	41-7	41-7
475	45-10	45-10	45-11	46-0	46-1	46-2	46-3	46-3	46-4	46-5
500	50-10	50-11	51-0	51-1	51-1	51-2	51-3	51-4	51-5	51-6
525	56-1	56-2	56-3	56-4	56-5	56-6	56-7	56-8	56-9	56-10
550	61-8	61-9	61-10	61-11	62-0	62-1	62-3	62-4	62-5	62-6
575	67-6	67-7	67-8	67-10	67-11	68-0	68-1	68-3	68-4	68-5
600	73-7	73-9	73-10	73-11	74-1	74-2	74-3	74-5	74-6	74-7
625	80-0	80-1	80-3	80-4	80-6	80-7	80-9	80-10	81-0	81-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	12-7	12-7	12-7	12-8	12-8	12-8	12-8	12-9	12-9	12-9
275	15-3	15-3	15-3	15-4	15-4	15-4	15-4	15-5	15-5	15-5
300	18-2	18-2	18-2	18-3	18-3	18-3	18-4	18-4	18-4	18-5
325	21-4	21-4	21-5	21-5	21-5	21-6	21-6	21-6	21-7	21-7
350	24-9	24-9	24-10	24-10	24-11	24-11	25-0	25-0	25-0	25-1
375	28-5	28-6	28-6	28-7	28-7	28-8	28-8	28-9	28-9	28-10
400	32-5	32-5	32-6	32-6	32-7	32-7	32-8	32-9	32-9	32-10
425	36-7	36-8	36-8	36-9	36-10	36-10	36-11	37-0	37-0	37-1
450	41-1	41-2	41-2	41-3	41-4	41-5	41-5	41-6	41-7	41-7
475	45-10	45-11	46-0	46-0	46-1	46-2	46-3	46-4	46-4	46-5
500	50-10	50-11	51-0	51-1	51-2	51-3	51-3	51-4	51-5	51-6
525	56-2	56-3	56-4	56-5	56-6	56-7	56-8	56-9	56-10	56-10
550	61-8	61-9	61-11	62-0	62-1	62-2	62-3	62-4	62-5	62-6
575	67-6	67-8	67-9	67-10	67-11	68-0	68-2	68-3	68-4	68-5
600	73-8	73-9	73-10	74-0	74-1	74-2	74-4	74-5	74-6	74-8
625	80-0	80-2	80-3	80-5	80-6	80-8	80-9	80-11	81-0	81-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.127

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.58	1.32	1500	1.32	1500*
20	0	0	0	0.481	0.49	1230	0.48	1243
30	0	0	0	0.481	0.54	1121	0.53	1138
40	0	0	0	0.481	0.59	1018	0.58	1038
50	0	0	0	0.481	0.65	921	0.64	943
60	0	0	0	0.481	0.72	832	0.7	855
70	0	0	0	0.481	0.8	753	0.78	774
80	0	0	0	0.481	0.88	683	0.86	702
90	0	0	0	0.481	0.97	622	0.94	639
100	0	0	0	0.481	1.05	570	1.03	585
110	0	0	0	0.481	1.14	526	1.12	538
120	0	0	0	0.481	1.23	488	1.21	498
130	0	0	0	0.481	1.32	456	1.29	467
167	0	0	0	0.481	1.6	376	1.56	386
212	0	0	0	0.481	1.91	316	1.86	323

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.58	5.28	1500	5.28	1500*
20	0	0	0	0.481	4.02	599	3.97	607
30	0	0	0	0.481	4.15	581	4.09	588
40	0	0	0	0.481	4.27	564	4.22	571
50	0	0	0	0.481	4.39	549	4.34	555
60	0	0	0	0.481	4.51	535	4.46	540
70	0	0	0	0.481	4.62	521	4.58	526
80	0	0	0	0.481	4.74	509	4.7	513
90	0	0	0	0.481	4.85	497	4.81	501
100	0	0	0	0.481	4.96	486	4.93	489
110	0	0	0	0.481	5.07	476	5.04	479
120	0	0	0	0.481	5.18	466	5.15	469
130	0	0	0	0.481	5.28	457	5.24	460
167	0	0	0	0.481	5.63	428	5.58	432
212	0	0	0	0.481	6.03	400	5.98	404

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.128

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.58	11.92	1500	11.92	1500*
20	0	0	0	0.481	10.67	510	10.61	512
30	0	0	0	0.481	10.79	504	10.74	507
40	0	0	0	0.481	10.91	499	10.86	501
50	0	0	0	0.481	11.03	493	10.98	496
60	0	0	0	0.481	11.14	488	11.09	490
70	0	0	0	0.481	11.26	483	11.21	485
80	0	0	0	0.481	11.37	479	11.33	480
90	0	0	0	0.481	11.48	474	11.44	476
100	0	0	0	0.481	11.59	469	11.56	471
110	0	0	0	0.481	11.71	465	11.67	466
120	0	0	0	0.481	11.82	461	11.78	462
130	0	0	0	0.481	11.92	457	11.88	458
167	0	0	0	0.481	12.3	443	12.24	445
212	0	0	0	0.481	12.72	428	12.67	430

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.58	21.3	1500	21.3	1500*
20	0	0	0	0.481	20.06	484	20	486
30	0	0	0	0.481	20.18	482	20.12	483
40	0	0	0	0.481	20.29	479	20.24	480
50	0	0	0	0.481	20.41	476	20.35	478
60	0	0	0	0.481	20.52	474	20.47	475
70	0	0	0	0.481	20.63	471	20.59	472
80	0	0	0	0.481	20.75	469	20.7	470
90	0	0	0	0.481	20.86	466	20.82	467
100	0	0	0	0.481	20.97	464	20.93	465
110	0	0	0	0.481	21.08	461	21.05	462
120	0	0	0	0.481	21.19	459	21.16	460
130	0	0	0	0.481	21.3	457	21.26	458
167	0	0	0	0.481	21.68	449	21.63	450
212	0	0	0	0.481	22.13	440	22.07	441

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.129

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.58	33.5	1500	33.5	1500*
20	0	0	0	0.481	32.26	474	32.21	474
30	0	0	0	0.481	32.38	472	32.32	473
40	0	0	0	0.481	32.49	470	32.44	471
50	0	0	0	0.481	32.61	469	32.56	470
60	0	0	0	0.481	32.72	467	32.67	468
70	0	0	0	0.481	32.83	466	32.79	466
80	0	0	0	0.481	32.95	464	32.9	465
90	0	0	0	0.481	33.06	463	33.02	463
100	0	0	0	0.481	33.17	461	33.13	462
110	0	0	0	0.481	33.28	460	33.25	460
120	0	0	0	0.481	33.39	458	33.36	459
130	0	0	0	0.481	33.5	457	33.46	457
167	0	0	0	0.481	33.89	452	33.83	452
212	0	0	0	0.481	34.34	446	34.28	447

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.130

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
100	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
125	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-7	1-9
150	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2-4	2-6
175	1-6	1-7	1-9	1-11	2-2	2-5	2-7	2-11	3-2	3-5
200	1-11	2-1	2-4	2-7	2-10	3-1	3-5	3-9	4-1	4-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8
100	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
125	0-9	0-10	0-11	1-0	1-2	1-3	1-5	1-6	1-8	1-9
150	1-1	1-2	1-4	1-6	1-8	1-10	2-0	2-2	2-4	2-7
175	1-6	1-8	1-10	2-0	2-3	2-5	2-8	3-0	3-3	3-6
200	1-11	2-2	2-4	2-7	2-11	3-2	3-6	3-10	4-3	4-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.131

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-0	1-0	1-1	1-1	1-1	1-2	1-2	1-2	1-3	1-3
125	1-7	1-7	1-8	1-8	1-9	1-9	1-10	1-11	1-11	2-0
150	2-3	2-4	2-4	2-5	2-6	2-7	2-8	2-8	2-9	2-10
175	3-0	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10
200	4-0	4-1	4-3	4-4	4-6	4-7	4-8	4-10	4-11	5-0
225	5-0	5-2	5-4	5-6	5-8	5-10	5-11	6-1	6-3	6-5
250	6-2	6-5	6-7	6-9	7-0	7-2	7-4	7-6	7-8	7-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-0	1-0	1-1	1-1	1-2	1-2	1-2	1-3	1-3	1-3
125	1-7	1-7	1-8	1-9	1-9	1-10	1-10	1-11	1-11	2-0
150	2-3	2-4	2-5	2-6	2-6	2-7	2-8	2-9	2-9	2-10
175	3-1	3-2	3-3	3-4	3-5	3-6	3-8	3-9	3-10	3-11
200	4-0	4-2	4-3	4-5	4-6	4-7	4-9	4-10	5-0	5-1
225	5-1	5-3	5-5	5-7	5-8	5-10	6-0	6-2	6-3	6-5
250	6-3	6-6	6-8	6-10	7-1	7-3	7-5	7-7	7-9	7-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.132

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-8	2-8	2-9	2-9	2-9	2-10	2-10	2-10	2-11	2-11
175	3-7	3-8	3-8	3-9	3-9	3-10	3-10	3-11	3-11	4-0
200	4-9	4-9	4-10	4-10	4-11	5-0	5-0	5-1	5-2	5-2
225	6-0	6-0	6-1	6-2	6-3	6-4	6-4	6-5	6-6	6-7
250	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1
275	8-11	9-0	9-1	9-3	9-4	9-5	9-6	9-7	9-8	9-10
300	10-7	10-9	10-10	11-0	11-1	11-3	11-4	11-5	11-7	11-8
325	12-6	12-7	12-9	12-11	13-0	13-2	13-4	13-5	13-7	13-8
350	14-5	14-7	14-9	14-11	15-1	15-3	15-5	15-7	15-9	15-11
375	16-7	16-9	17-0	17-2	17-4	17-6	17-9	17-11	18-1	18-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-8	2-8	2-9	2-9	2-9	2-10	2-10	2-10	2-11	2-11
175	3-8	3-8	3-8	3-9	3-9	3-10	3-10	3-11	3-11	4-0
200	4-9	4-9	4-10	4-11	4-11	5-0	5-1	5-1	5-2	5-2
225	6-0	6-1	6-2	6-2	6-3	6-4	6-5	6-5	6-6	6-7
250	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-1
275	9-0	9-1	9-2	9-3	9-4	9-5	9-7	9-8	9-9	9-10
300	10-8	10-9	10-11	11-0	11-2	11-3	11-4	11-6	11-7	11-8
325	12-6	12-8	12-10	12-11	13-1	13-3	13-4	13-6	13-7	13-9
350	14-6	14-8	14-10	15-0	15-2	15-4	15-6	15-8	15-10	15-11
375	16-8	16-11	17-1	17-3	17-5	17-7	17-9	18-0	18-2	18-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.133

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-2	5-3	5-3
225	6-4	6-4	6-5	6-5	6-6	6-6	6-6	6-7	6-7	6-8
250	7-10	7-10	7-11	7-11	8-0	8-0	8-1	8-1	8-2	8-2
275	9-5	9-6	9-7	9-7	9-8	9-9	9-9	9-10	9-11	9-11
300	11-3	11-4	11-4	11-5	11-6	11-7	11-8	11-8	11-9	11-10
325	13-2	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-11
350	15-4	15-5	15-6	15-7	15-8	15-9	15-10	15-11	16-0	16-1
375	17-7	17-8	17-9	17-11	18-0	18-1	18-2	18-3	18-5	18-6
400	20-0	20-1	20-3	20-4	20-6	20-7	20-8	20-10	20-11	21-1
425	22-7	22-9	22-10	23-0	23-1	23-3	23-5	23-6	23-8	23-9
450	25-4	25-6	25-8	25-9	25-11	26-1	26-3	26-4	26-6	26-8
475	28-3	28-5	28-7	28-9	28-11	29-1	29-3	29-5	29-7	29-9
500	31-4	31-6	31-8	31-10	32-1	32-3	32-5	32-7	32-9	32-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-2	5-3	5-3
225	6-4	6-4	6-5	6-5	6-6	6-6	6-7	6-7	6-7	6-8
250	7-10	7-10	7-11	7-11	8-0	8-1	8-1	8-2	8-2	8-3
275	9-6	9-6	9-7	9-8	9-8	9-9	9-9	9-10	9-11	9-11
300	11-3	11-4	11-5	11-6	11-6	11-7	11-8	11-9	11-9	11-10
325	13-3	13-4	13-5	13-5	13-6	13-7	13-8	13-9	13-10	13-11
350	15-4	15-5	15-6	15-7	15-8	15-9	15-10	15-11	16-1	16-2
375	17-7	17-9	17-10	17-11	18-0	18-2	18-3	18-4	18-5	18-6
400	20-1	20-2	20-3	20-5	20-6	20-8	20-9	20-10	21-0	21-1
425	22-8	22-9	22-11	23-1	23-2	23-4	23-5	23-7	23-8	23-10
450	25-5	25-7	25-8	25-10	26-0	26-2	26-3	26-5	26-7	26-9
475	28-4	28-6	28-8	28-10	29-0	29-2	29-4	29-5	29-7	29-9
500	31-5	31-7	31-9	31-11	32-1	32-4	32-6	32-8	32-10	33-0

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STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.134

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	8-0	8-1	8-1	8-1	8-2	8-2	8-2	8-3	8-3	8-3
275	9-8	9-9	9-9	9-10	9-10	9-11	9-11	9-11	10-0	10-0
300	11-7	11-7	11-8	11-8	11-9	11-9	11-10	11-10	11-11	11-11
325	13-7	13-7	13-8	13-9	13-9	13-10	13-10	13-11	13-11	14-0
350	15-9	15-10	15-10	15-11	16-0	16-0	16-1	16-2	16-2	16-3
375	18-1	18-2	18-2	18-3	18-4	18-5	18-6	18-6	18-7	18-8
400	20-7	20-8	20-9	20-10	20-10	20-11	21-0	21-1	21-2	21-3
425	23-3	23-4	23-5	23-6	23-7	23-8	23-9	23-10	23-11	24-0
450	26-1	26-2	26-3	26-4	26-5	26-6	26-7	26-9	26-10	26-11
475	29-1	29-2	29-3	29-4	29-6	29-7	29-8	29-9	29-11	30-0
500	32-2	32-4	32-5	32-7	32-8	32-9	32-11	33-0	33-2	33-3
525	35-6	35-8	35-9	35-11	36-0	36-2	36-4	36-5	36-7	36-8
550	39-0	39-2	39-4	39-5	39-7	39-9	39-10	40-0	40-2	40-3
575	42-8	42-10	43-0	43-2	43-3	43-5	43-7	43-9	43-11	44-1
600	46-6	46-8	46-10	47-0	47-2	47-4	47-6	47-8	47-10	48-0
625	50-6	50-8	50-10	51-0	51-3	51-5	51-7	51-9	51-11	52-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	8-0	8-1	8-1	8-1	8-2	8-2	8-2	8-3	8-3	8-3
275	9-9	9-9	9-9	9-10	9-10	9-11	9-11	10-0	10-0	10-0
300	11-7	11-7	11-8	11-8	11-9	11-9	11-10	11-10	11-11	11-11
325	13-7	13-8	13-8	13-9	13-9	13-10	13-10	13-11	14-0	14-0
350	15-9	15-10	15-11	15-11	16-0	16-1	16-1	16-2	16-2	16-3
375	18-1	18-2	18-3	18-4	18-4	18-5	18-6	18-7	18-7	18-8
400	20-7	20-8	20-9	20-10	20-11	21-0	21-1	21-1	21-2	21-3
425	23-3	23-4	23-5	23-6	23-7	23-8	23-9	23-10	23-11	24-0
450	26-1	26-2	26-3	26-5	26-6	26-7	26-8	26-9	26-10	26-11
475	29-1	29-2	29-4	29-5	29-6	29-7	29-9	29-10	29-11	30-0
500	32-3	32-5	32-6	32-7	32-9	32-10	32-11	33-1	33-2	33-3
525	35-7	35-9	35-10	36-0	36-1	36-3	36-4	36-6	36-7	36-9
550	39-1	39-3	39-4	39-6	39-8	39-9	39-11	40-1	40-2	40-4
575	42-9	42-11	43-1	43-2	43-4	43-6	43-8	43-10	43-11	44-1
600	46-7	46-9	46-11	47-1	47-3	47-5	47-7	47-9	47-11	48-1
625	50-7	50-9	50-11	51-1	51-3	51-6	51-8	51-10	52-0	52-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.135

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.58	0.99	1990	0.99	2000*
20	0	0	0	0.481	0.3	1987	0.3	1996
30	0	0	0	0.481	0.32	1862	0.32	1880
40	0	0	0	0.481	0.35	1738	0.34	1765
50	0	0	0	0.481	0.37	1616	0.36	1649
60	0	0	0	0.481	0.4	1495	0.39	1535
70	0	0	0	0.481	0.44	1377	0.42	1421
80	0	0	0	0.481	0.48	1263	0.46	1310
90	0	0	0	0.481	0.52	1152	0.5	1201
100	0	0	0	0.481	0.57	1047	0.55	1095
110	0	0	0	0.481	0.63	948	0.6	995
120	0	0	0	0.481	0.7	857	0.67	901
130	0	0	0	0.481	0.78	775	0.74	815
167	0	0	0	0.481	1.08	558	1.02	590
212	0	0	0	0.481	1.42	423	1.36	443

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.58	3.96	2000	3.96	2000*
20	0	0	0	0.481	2.1	1148	2.05	1176
30	0	0	0	0.481	2.23	1080	2.17	1108
40	0	0	0	0.481	2.36	1018	2.3	1045
50	0	0	0	0.481	2.5	962	2.44	987
60	0	0	0	0.481	2.64	911	2.58	934
70	0	0	0	0.481	2.78	865	2.72	886
80	0	0	0	0.481	2.92	823	2.86	843
90	0	0	0	0.481	3.06	786	3	803
100	0	0	0	0.481	3.2	751	3.14	767
110	0	0	0	0.481	3.34	721	3.28	734
120	0	0	0	0.481	3.48	692	3.42	705
130	0	0	0	0.481	3.61	667	3.55	678
167	0	0	0	0.481	4.08	591	4	602
212	0	0	0	0.481	4.56	528	4.49	537

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.136

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.58	8.92	2000	8.92	2000*
20	0	0	0	0.481	6.85	792	6.75	803
30	0	0	0	0.481	7.01	773	6.92	784
40	0	0	0	0.481	7.18	756	7.08	766
50	0	0	0	0.481	7.34	739	7.25	748
60	0	0	0	0.481	7.49	724	7.41	732
70	0	0	0	0.481	7.65	709	7.57	717
80	0	0	0	0.481	7.8	695	7.72	703
90	0	0	0	0.481	7.96	682	7.88	689
100	0	0	0	0.481	8.11	669	8.03	676
110	0	0	0	0.481	8.25	658	8.18	663
120	0	0	0	0.481	8.4	646	8.33	651
130	0	0	0	0.481	8.54	635	8.48	640
167	0	0	0	0.481	9.05	600	8.97	605
212	0	0	0	0.481	9.6	566	9.52	571

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.58	15.9	2000	15.9	2000*
20	0	0	0	0.481	13.83	699	13.73	704
30	0	0	0	0.481	13.99	691	13.89	696
40	0	0	0	0.481	14.15	683	14.05	688
50	0	0	0	0.481	14.3	676	14.21	680
60	0	0	0	0.481	14.46	669	14.37	673
70	0	0	0	0.481	14.61	662	14.53	666
80	0	0	0	0.481	14.77	655	14.68	659
90	0	0	0	0.481	14.92	648	14.84	652
100	0	0	0	0.481	15.07	642	14.99	645
110	0	0	0	0.481	15.22	636	15.15	639
120	0	0	0	0.481	15.37	630	15.3	633
130	0	0	0	0.481	15.51	624	15.45	626
167	0	0	0	0.481	16.04	604	15.95	607
212	0	0	0	0.481	16.61	583	16.53	586

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.137

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.58	24.93	2000	24.93	2000*
20	0	0	0	0.481	22.87	663	22.77	666
30	0	0	0	0.481	23.02	658	22.93	661
40	0	0	0	0.481	23.18	654	23.08	657
50	0	0	0	0.481	23.33	650	23.24	652
60	0	0	0	0.481	23.49	646	23.4	648
70	0	0	0	0.481	23.64	641	23.55	644
80	0	0	0	0.481	23.79	637	23.71	640
90	0	0	0	0.481	23.94	634	23.86	636
100	0	0	0	0.481	24.1	630	24.02	632
110	0	0	0	0.481	24.24	626	24.17	628
120	0	0	0	0.481	24.39	622	24.32	624
130	0	0	0	0.481	24.54	618	24.47	620
167	0	0	0	0.481	25.07	606	24.98	608
212	0	0	0	0.481	25.66	592	25.57	594

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.138

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4
100	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
125	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11
150	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-2	1-3	1-4
175	0-11	1-0	1-1	1-1	1-2	1-4	1-5	1-6	1-8	1-10
200	1-2	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-2	2-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4
100	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
125	0-6	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0
150	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5
175	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-11
200	1-3	1-4	1-5	1-6	1-7	1-9	1-11	2-1	2-4	2-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.139

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-9	0-10
125	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-3
150	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-9	1-10
175	1-7	1-8	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-6
200	2-1	2-2	2-4	2-5	2-7	2-9	2-10	3-0	3-2	3-3
225	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-10	4-0	4-2
250	3-2	3-5	3-7	3-10	4-0	4-3	4-6	4-8	4-11	5-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-6	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-10
125	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4
150	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
175	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-4	2-5	2-7
200	2-1	2-3	2-4	2-6	2-8	2-9	2-11	3-1	3-2	3-4
225	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-11	4-1	4-3
250	3-3	3-6	3-8	3-11	4-2	4-4	4-7	4-9	5-0	5-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-8	1-9	1-9	1-10	1-10	1-11	1-11	2-0	2-0	2-1
175	2-4	2-4	2-5	2-6	2-6	2-7	2-8	2-8	2-9	2-9
200	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-7	3-8
225	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7
250	4-8	4-10	4-11	5-0	5-2	5-3	5-4	5-6	5-7	5-8
275	5-8	5-10	5-11	6-1	6-3	6-4	6-6	6-7	6-9	6-10
300	6-9	6-11	7-1	7-3	7-5	7-7	7-9	7-11	8-0	8-2
325	7-11	8-1	8-4	8-6	8-8	8-11	9-1	9-3	9-5	9-7
350	9-2	9-5	9-8	9-10	10-1	10-4	10-6	10-9	10-11	11-2
375	10-7	10-10	11-1	11-4	11-7	11-10	12-1	12-4	12-7	12-10

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-9	1-9	1-10	1-10	1-10	1-11	1-11	2-0	2-0	2-1
175	2-4	2-5	2-5	2-6	2-7	2-7	2-8	2-8	2-9	2-10
200	3-1	3-1	3-2	3-3	3-4	3-5	3-6	3-6	3-7	3-8
225	3-10	3-11	4-0	4-1	4-3	4-4	4-5	4-6	4-7	4-8
250	4-9	4-10	5-0	5-1	5-2	5-4	5-5	5-6	5-8	5-9
275	5-9	5-11	6-0	6-2	6-4	6-5	6-7	6-8	6-10	6-11
300	6-10	7-0	7-2	7-4	7-6	7-8	7-10	7-11	8-1	8-3
325	8-0	8-3	8-5	8-7	8-10	9-0	9-2	9-4	9-6	9-8
350	9-4	9-7	9-9	10-0	10-2	10-5	10-8	10-10	11-0	11-3
375	10-8	11-0	11-3	11-6	11-9	12-0	12-2	12-5	12-8	12-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.141

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	3-5	3-6	3-6	3-7	3-7	3-8	3-8	3-8	3-9	3-9
225	4-4	4-5	4-5	4-6	4-6	4-7	4-8	4-8	4-9	4-9
250	5-4	5-5	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-11
275	6-6	6-7	6-8	6-9	6-9	6-10	6-11	7-0	7-1	7-2
300	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6
325	9-1	9-2	9-3	9-5	9-6	9-7	9-8	9-9	9-11	10-0
350	10-6	10-8	10-9	10-11	11-0	11-1	11-3	11-4	11-6	11-7
375	12-1	12-2	12-4	12-6	12-8	12-9	12-11	13-0	13-2	13-4
400	13-9	13-11	14-1	14-3	14-4	14-6	14-8	14-10	15-0	15-2
425	15-6	15-8	15-10	16-1	16-3	16-5	16-7	16-9	16-11	17-1
450	17-5	17-7	17-9	18-0	18-2	18-5	18-7	18-9	19-0	19-2
475	19-4	19-7	19-10	20-1	20-3	20-6	20-9	20-11	21-2	21-4
500	21-6	21-9	22-0	22-3	22-6	22-9	23-0	23-3	23-5	23-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	3-5	3-6	3-6	3-7	3-7	3-8	3-8	3-9	3-9	3-10
225	4-4	4-5	4-6	4-6	4-7	4-7	4-8	4-9	4-9	4-10
250	5-5	5-5	5-6	5-7	5-8	5-8	5-9	5-10	5-11	5-11
275	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-1	7-2
300	7-9	7-10	7-11	8-0	8-2	8-3	8-4	8-5	8-6	8-7
325	9-1	9-3	9-4	9-5	9-6	9-8	9-9	9-10	9-11	10-0
350	10-7	10-8	10-10	10-11	11-1	11-2	11-4	11-5	11-6	11-8
375	12-2	12-3	12-5	12-7	12-8	12-10	13-0	13-1	13-3	13-4
400	13-10	14-0	14-2	14-4	14-6	14-7	14-9	14-11	15-1	15-3
425	15-7	15-10	16-0	16-2	16-4	16-6	16-8	16-10	17-0	17-2
450	17-6	17-9	17-11	18-1	18-4	18-6	18-8	18-11	19-1	19-3
475	19-6	19-9	20-0	20-2	20-5	20-7	20-10	21-1	21-3	21-6
500	21-7	21-10	22-1	22-4	22-7	22-10	23-1	23-4	23-7	23-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.142

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	5-8	5-9	5-9	5-10	5-10	5-11	5-11	5-11	6-0	6-0
275	6-10	6-11	7-0	7-0	7-1	7-1	7-2	7-2	7-3	7-4
300	8-2	8-3	8-4	8-4	8-5	8-6	8-6	8-7	8-8	8-8
325	9-7	9-8	9-9	9-10	9-10	9-11	10-0	10-1	10-2	10-2
350	11-2	11-3	11-4	11-4	11-5	11-6	11-7	11-8	11-9	11-10
375	12-9	12-11	13-0	13-1	13-2	13-3	13-4	13-5	13-6	13-7
400	14-7	14-8	14-9	14-10	15-0	15-1	15-2	15-3	15-4	15-5
425	16-5	16-7	16-8	16-9	16-11	17-0	17-1	17-3	17-4	17-5
450	18-5	18-7	18-8	18-10	18-11	19-1	19-2	19-4	19-5	19-7
475	20-7	20-8	20-10	21-0	21-1	21-3	21-5	21-6	21-8	21-10
500	22-9	22-11	23-1	23-3	23-5	23-7	23-9	23-10	24-0	24-2
525	25-1	25-3	25-5	25-8	25-10	26-0	26-2	26-4	26-6	26-8
550	27-7	27-9	27-11	28-2	28-4	28-6	28-8	28-11	29-1	29-3
575	30-2	30-4	30-7	30-9	31-0	31-2	31-5	31-7	31-10	32-0
600	32-10	33-1	33-3	33-6	33-9	34-0	34-2	34-5	34-8	34-10
625	35-8	35-11	36-2	36-4	36-7	36-10	37-1	37-4	37-7	37-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	5-8	5-9	5-9	5-10	5-10	5-11	5-11	6-0	6-0	6-1
275	6-11	6-11	7-0	7-1	7-1	7-2	7-2	7-3	7-3	7-4
300	8-3	8-3	8-4	8-5	8-5	8-6	8-7	8-7	8-8	8-9
325	9-8	9-9	9-9	9-10	9-11	10-0	10-0	10-1	10-2	10-3
350	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-9	11-10
375	12-10	12-11	13-0	13-1	13-2	13-3	13-4	13-5	13-6	13-7
400	14-7	14-9	14-10	14-11	15-0	15-1	15-3	15-4	15-5	15-6
425	16-6	16-7	16-9	16-10	16-11	17-1	17-2	17-3	17-5	17-6
450	18-6	18-8	18-9	18-11	19-0	19-2	19-3	19-5	19-6	19-8
475	20-8	20-9	20-11	21-1	21-2	21-4	21-6	21-7	21-9	21-10
500	22-10	23-0	23-2	23-4	23-6	23-8	23-10	23-11	24-1	24-3
525	25-3	25-5	25-7	25-9	25-11	26-1	26-3	26-5	26-7	26-9
550	27-8	27-11	28-1	28-3	28-5	28-7	28-10	29-0	29-2	29-4
575	30-3	30-6	30-8	30-11	31-1	31-4	31-6	31-8	31-11	32-1
600	33-0	33-2	33-5	33-8	33-10	34-1	34-4	34-6	34-9	35-0
625	35-9	36-0	36-3	36-6	36-9	37-0	37-3	37-6	37-9	37-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.143

Span = 100 ft

Design Condition Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Final Sag ft	Final Tension lb	Initial Sag ft	Initial Tension lb
20	0	18.5	0	1.58	1.98	1000	1.98	1000*
0	0	0	0	0.481	1.42	424	1.39	432
30	0	0	0	0.481	1.66	362	1.64	367
40	0	0	0	0.481	1.74	346	1.72	351
50	0	0	0	0.481	1.81	332	1.79	336
60	0	0	0	0.481	1.89	319	1.87	323
70	0	0	0	0.481	1.96	308	1.94	311
80	0	0	0	0.481	2.02	298	2.01	300
90	0	0	0	0.481	2.09	288	2.08	290
100	0	0	0	0.481	2.16	279	2.14	281
110	0	0	0	0.481	2.22	271	2.2	274
120	0	0	0	0.481	2.28	264	2.25	267
130	0	0	0	0.481	2.34	258	2.31	261
167	0	0	0	0.481	2.53	238	2.51	241
212	0	0	0	0.481	2.75	219	2.73	221

* Design Condition

Span = 200 ft

Design Condition Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Final Sag ft	Final Tension lb	Initial Sag ft	Initial Tension lb
20	0	18.5	0	1.58	7.95	1000	7.95	1000*
0	0	0	0	0.481	7.39	327	7.36	328
30	0	0	0	0.481	7.63	317	7.6	318
40	0	0	0	0.481	7.7	314	7.68	315
50	0	0	0	0.481	7.78	311	7.75	312
60	0	0	0	0.481	7.85	308	7.83	309
70	0	0	0	0.481	7.92	305	7.91	306
80	0	0	0	0.481	8	303	7.98	303
90	0	0	0	0.481	8.07	300	8.06	300
100	0	0	0	0.481	8.14	297	8.13	298
110	0	0	0	0.481	8.21	295	8.19	296
120	0	0	0	0.481	8.28	292	8.26	293
130	0	0	0	0.481	8.35	290	8.32	291
167	0	0	0	0.481	8.58	282	8.55	283
212	0	0	0	0.481	8.86	274	8.83	274

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.58	18.03	1000	18.03	1000*
0	0	0	0	0.481	17.48	314	17.45	314
30	0	0	0	0.481	17.71	310	17.68	310
40	0	0	0	0.481	17.78	309	17.76	309
50	0	0	0	0.481	17.86	307	17.83	308
60	0	0	0	0.481	17.93	306	17.91	306
70	0	0	0	0.481	18	305	17.99	305
80	0	0	0	0.481	18.08	304	18.06	304
90	0	0	0	0.481	18.15	302	18.14	303
100	0	0	0	0.481	18.23	301	18.21	302
110	0	0	0	0.481	18.3	300	18.28	300
120	0	0	0	0.481	18.37	299	18.35	299
130	0	0	0	0.481	18.44	298	18.41	298
167	0	0	0	0.481	18.68	294	18.65	295
212	0	0	0	0.481	18.97	290	18.95	290

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.58	32.43	1000	32.43	1000*
0	0	0	0	0.481	31.88	309	31.85	310
30	0	0	0	0.481	32.1	307	32.08	308
40	0	0	0	0.481	32.18	307	32.15	307
50	0	0	0	0.481	32.25	306	32.23	306
60	0	0	0	0.481	32.33	305	32.31	306
70	0	0	0	0.481	32.4	305	32.38	305
80	0	0	0	0.481	32.48	304	32.46	304
90	0	0	0	0.481	32.55	303	32.54	304
100	0	0	0	0.481	32.62	303	32.61	303
110	0	0	0	0.481	32.7	302	32.68	302
120	0	0	0	0.481	32.77	301	32.74	302
130	0	0	0	0.481	32.84	301	32.81	301
167	0	0	0	0.481	33.09	299	33.06	299
212	0	0	0	0.481	33.39	296	33.36	296

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.145

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.58	51.46	1000	51.46	1000*
0	0	0	0	0.481	50.92	307	50.89	308
30	0	0	0	0.481	51.14	306	51.12	306
40	0	0	0	0.481	51.22	306	51.19	306
50	0	0	0	0.481	51.29	305	51.27	306
60	0	0	0	0.481	51.37	305	51.35	305
70	0	0	0	0.481	51.44	305	51.42	305
80	0	0	0	0.481	51.51	304	51.5	304
90	0	0	0	0.481	51.59	304	51.57	304
100	0	0	0	0.481	51.66	303	51.65	303
110	0	0	0	0.481	51.74	303	51.72	303
120	0	0	0	0.481	51.81	303	51.78	303
130	0	0	0	0.481	51.88	302	51.85	302
167	0	0	0	0.481	52.13	301	52.1	301
212	0	0	0	0.481	52.43	299	52.4	299

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.146

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-2	1-3
100	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-1	2-2	2-2
125	2-5	2-7	2-8	2-10	2-11	3-0	3-2	3-3	3-4	3-5
150	3-6	3-8	3-10	4-0	4-2	4-4	4-6	4-8	4-10	4-11
175	4-9	5-0	5-3	5-6	5-9	5-11	6-2	6-4	6-7	6-9
200	6-3	6-7	6-10	7-2	7-6	7-9	8-1	8-4	8-7	8-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3
100	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-1	2-2	2-3
125	2-6	2-7	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-6
150	3-7	3-9	3-11	4-1	4-3	4-5	4-7	4-8	4-10	5-0
175	4-10	5-1	5-4	5-7	5-9	6-0	6-2	6-5	6-7	6-10
200	6-4	6-8	7-0	7-3	7-7	7-10	8-1	8-5	8-8	8-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.147

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-11	1-11	1-11	1-11	1-11	2-0	2-0	2-0	2-0	2-1
125	2-11	3-0	3-0	3-0	3-1	3-1	3-1	3-2	3-2	3-2
150	4-3	4-3	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-7
175	5-9	5-10	5-11	5-11	6-0	6-1	6-1	6-2	6-3	6-3
200	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-2
225	9-6	9-7	9-9	9-10	9-11	10-0	10-1	10-2	10-4	10-5
250	11-9	11-11	12-0	12-2	12-3	12-4	12-6	12-7	12-9	12-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-11	1-11	1-11	1-11	2-0	2-0	2-0	2-0	2-0	2-1
125	2-11	3-0	3-0	3-0	3-1	3-1	3-1	3-2	3-2	3-2
150	4-3	4-3	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-7
175	5-9	5-10	5-11	5-11	6-0	6-1	6-1	6-2	6-3	6-3
200	7-7	7-8	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3
225	9-7	9-8	9-9	9-10	9-11	10-0	10-2	10-3	10-4	10-5
250	11-10	11-11	12-1	12-2	12-3	12-5	12-6	12-8	12-9	12-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	4-5	4-5	4-5	4-5	4-6	4-6	4-6	4-6	4-6	4-7
175	6-0	6-0	6-0	6-1	6-1	6-1	6-2	6-2	6-2	6-2
200	7-10	7-10	7-10	7-11	7-11	8-0	8-0	8-0	8-1	8-1
225	9-11	9-11	10-0	10-0	10-1	10-1	10-2	10-2	10-3	10-3
250	12-2	12-3	12-4	12-4	12-5	12-6	12-6	12-7	12-8	12-8
275	14-9	14-10	14-11	15-0	15-0	15-1	15-2	15-3	15-3	15-4
300	17-7	17-8	17-9	17-10	17-11	18-0	18-1	18-2	18-3	18-3
325	20-8	20-9	20-10	20-11	21-0	21-2	21-3	21-4	21-5	21-6
350	24-0	24-1	24-3	24-4	24-5	24-6	24-8	24-9	24-10	24-11
375	27-7	27-8	27-10	27-11	28-1	28-2	28-4	28-5	28-6	28-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	4-5	4-5	4-5	4-5	4-6	4-6	4-6	4-6	4-6	4-7
175	6-0	6-0	6-0	6-1	6-1	6-1	6-2	6-2	6-2	6-2
200	7-10	7-10	7-11	7-11	7-11	8-0	8-0	8-1	8-1	8-1
225	9-11	9-11	10-0	10-0	10-1	10-1	10-2	10-2	10-3	10-3
250	12-3	12-3	12-4	12-5	12-5	12-6	12-6	12-7	12-8	12-8
275	14-10	14-10	14-11	15-0	15-1	15-1	15-2	15-3	15-4	15-4
300	17-8	17-8	17-9	17-10	17-11	18-0	18-1	18-2	18-3	18-4
325	20-8	20-10	20-11	21-0	21-1	21-2	21-3	21-4	21-5	21-6
350	24-0	24-2	24-3	24-4	24-5	24-7	24-8	24-9	24-10	24-11
375	27-7	27-9	27-10	28-0	28-1	28-2	28-4	28-5	28-7	28-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.149

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	7-11	8-0	8-0	8-0	8-0	8-1	8-1	8-1	8-1	8-1
225	10-1	10-1	10-1	10-2	10-2	10-2	10-3	10-3	10-3	10-3
250	12-5	12-6	12-6	12-6	12-7	12-7	12-7	12-8	12-8	12-8
275	15-1	15-1	15-2	15-2	15-2	15-3	15-3	15-4	15-4	15-4
300	17-11	18-0	18-0	18-1	18-1	18-2	18-2	18-3	18-3	18-4
325	21-1	21-1	21-2	21-3	21-3	21-4	21-4	21-5	21-6	21-6
350	24-5	24-6	24-7	24-8	24-8	24-9	24-10	24-10	24-11	25-0
375	28-1	28-2	28-3	28-4	28-4	28-5	28-6	28-7	28-8	28-8
400	32-0	32-1	32-2	32-3	32-4	32-5	32-6	32-6	32-7	32-8
425	36-2	36-3	36-4	36-5	36-6	36-7	36-8	36-9	36-10	36-11
450	40-7	40-8	40-9	40-11	41-0	41-1	41-2	41-3	41-4	41-5
475	45-3	45-5	45-6	45-7	45-9	45-10	45-11	46-1	46-2	46-3
500	50-3	50-4	50-6	50-7	50-9	50-10	51-0	51-1	51-2	51-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	7-11	8-0	8-0	8-0	8-0	8-1	8-1	8-1	8-1	8-1
225	10-1	10-1	10-1	10-2	10-2	10-2	10-3	10-3	10-3	10-3
250	12-5	12-6	12-6	12-6	12-7	12-7	12-7	12-8	12-8	12-8
275	15-1	15-1	15-2	15-2	15-3	15-3	15-3	15-4	15-4	15-5
300	17-11	18-0	18-0	18-1	18-1	18-2	18-2	18-3	18-3	18-4
325	21-1	21-2	21-2	21-3	21-3	21-4	21-5	21-5	21-6	21-6
350	24-6	24-6	24-7	24-8	24-8	24-9	24-10	24-10	24-11	25-0
375	28-1	28-2	28-3	28-4	28-5	28-5	28-6	28-7	28-8	28-8
400	32-0	32-1	32-2	32-3	32-4	32-5	32-6	32-7	32-7	32-8
425	36-2	36-3	36-4	36-5	36-6	36-7	36-8	36-9	36-10	36-11
450	40-8	40-9	40-10	40-11	41-0	41-1	41-2	41-3	41-5	41-6
475	45-4	45-5	45-6	45-8	45-9	45-10	46-0	46-1	46-2	46-3
500	50-3	50-5	50-6	50-8	50-9	50-10	51-0	51-1	51-3	51-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.150

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	12-8	12-8	12-8	12-8	12-8	12-9	12-9	12-9	12-9	12-10
275	15-4	15-4	15-4	15-4	15-5	15-5	15-5	15-5	15-6	15-6
300	18-3	18-3	18-3	18-4	18-4	18-4	18-5	18-5	18-5	18-5
325	21-5	21-5	21-6	21-6	21-6	21-7	21-7	21-7	21-8	21-8
350	24-10	24-10	24-11	24-11	25-0	25-0	25-1	25-1	25-2	25-2
375	28-6	28-7	28-8	28-8	28-9	28-9	28-10	28-10	28-11	28-11
400	32-6	32-7	32-7	32-8	32-8	32-9	32-10	32-10	32-11	32-11
425	36-9	36-10	36-10	36-11	36-11	37-0	37-1	37-1	37-2	37-3
450	41-3	41-4	41-4	41-5	41-6	41-7	41-7	41-8	41-9	41-9
475	46-0	46-1	46-2	46-3	46-3	46-4	46-5	46-6	46-7	46-7
500	51-0	51-1	51-2	51-3	51-4	51-5	51-6	51-7	51-8	51-9
525	56-4	56-5	56-6	56-7	56-8	56-9	56-10	56-11	57-0	57-1
550	61-11	62-0	62-1	62-3	62-4	62-5	62-6	62-7	62-8	62-9
575	67-10	67-11	68-0	68-1	68-2	68-4	68-5	68-6	68-7	68-8
600	73-11	74-1	74-2	74-3	74-5	74-6	74-7	74-9	74-10	74-11
625	80-4	80-6	80-7	80-9	80-10	81-0	81-1	81-3	81-4	81-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	12-8	12-8	12-8	12-8	12-9	12-9	12-9	12-9	12-9	12-10
275	15-4	15-4	15-4	15-4	15-5	15-5	15-5	15-5	15-6	15-6
300	18-3	18-3	18-3	18-4	18-4	18-4	18-5	18-5	18-5	18-6
325	21-5	21-5	21-6	21-6	21-6	21-7	21-7	21-7	21-8	21-8
350	24-10	24-11	24-11	25-0	25-0	25-0	25-1	25-1	25-2	25-2
375	28-7	28-7	28-8	28-8	28-9	28-9	28-10	28-10	28-11	28-11
400	32-6	32-7	32-7	32-8	32-9	32-9	32-10	32-10	32-11	32-11
425	36-9	36-10	36-10	36-11	37-0	37-0	37-1	37-2	37-2	37-3
450	41-3	41-4	41-5	41-5	41-6	41-7	41-7	41-8	41-9	41-10
475	46-0	46-1	46-2	46-3	46-4	46-4	46-5	46-6	46-7	46-8
500	51-1	51-2	51-3	51-3	51-4	51-5	51-6	51-7	51-8	51-9
525	56-5	56-6	56-7	56-8	56-9	56-10	56-10	56-11	57-0	57-1
550	62-0	62-1	62-2	62-3	62-4	62-5	62-6	62-7	62-8	62-9
575	67-10	67-11	68-0	68-2	68-3	68-4	68-5	68-6	68-8	68-9
600	74-0	74-1	74-2	74-4	74-5	74-6	74-8	74-9	74-10	74-11
625	80-5	80-6	80-8	80-9	80-11	81-0	81-1	81-3	81-4	81-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.151

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.58	1.32	1500	1.32	1500*
0	0	0	0	0.481	0.54	1121	0.53	1140
30	0	0	0	0.481	0.72	832	0.7	858
40	0	0	0	0.481	0.8	753	0.77	778
50	0	0	0	0.481	0.88	683	0.85	706
60	0	0	0	0.481	0.97	622	0.94	643
70	0	0	0	0.481	1.05	570	1.02	589
80	0	0	0	0.481	1.14	526	1.11	542
90	0	0	0	0.481	1.23	488	1.2	501
100	0	0	0	0.481	1.32	456	1.29	467
110	0	0	0	0.481	1.4	428	1.38	437
120	0	0	0	0.481	1.49	404	1.46	413
130	0	0	0	0.481	1.57	384	1.53	394
167	0	0	0	0.481	1.82	330	1.78	338
212	0	0	0	0.481	2.11	286	2.06	292

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.58	5.28	1500	5.28	1500*
0	0	0	0	0.481	4.15	581	4.09	589
30	0	0	0	0.481	4.51	535	4.45	541
40	0	0	0	0.481	4.62	521	4.57	527
50	0	0	0	0.481	4.74	509	4.69	514
60	0	0	0	0.481	4.85	497	4.8	502
70	0	0	0	0.481	4.96	486	4.92	490
80	0	0	0	0.481	5.07	476	5.03	480
90	0	0	0	0.481	5.18	466	5.14	469
100	0	0	0	0.481	5.28	457	5.25	460
110	0	0	0	0.481	5.39	448	5.35	451
120	0	0	0	0.481	5.49	440	5.45	442
130	0	0	0	0.481	5.59	432	5.54	435
167	0	0	0	0.481	5.92	408	5.87	411
212	0	0	0	0.481	6.3	383	6.25	386

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.58	11.92	1500	11.92	1500*
0	0	0	0	0.481	10.79	504	10.73	507
30	0	0	0	0.481	11.14	488	11.09	491
40	0	0	0	0.481	11.26	483	11.2	486
50	0	0	0	0.481	11.37	479	11.32	481
60	0	0	0	0.481	11.48	474	11.43	476
70	0	0	0	0.481	11.59	469	11.55	471
80	0	0	0	0.481	11.71	465	11.66	467
90	0	0	0	0.481	11.82	461	11.77	462
100	0	0	0	0.481	11.92	457	11.89	458
110	0	0	0	0.481	12.03	453	12	454
120	0	0	0	0.481	12.14	449	12.11	450
130	0	0	0	0.481	12.25	445	12.2	446
167	0	0	0	0.481	12.61	432	12.56	434
212	0	0	0	0.481	13.02	419	12.97	420

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.58	21.3	1500	21.3	1500*
0	0	0	0	0.481	20.18	482	20.11	483
30	0	0	0	0.481	20.52	474	20.46	475
40	0	0	0	0.481	20.63	471	20.58	472
50	0	0	0	0.481	20.75	469	20.69	470
60	0	0	0	0.481	20.86	466	20.81	467
70	0	0	0	0.481	20.97	464	20.92	465
80	0	0	0	0.481	21.08	461	21.04	462
90	0	0	0	0.481	21.19	459	21.15	460
100	0	0	0	0.481	21.3	457	21.26	458
110	0	0	0	0.481	21.41	454	21.38	455
120	0	0	0	0.481	21.52	452	21.49	453
130	0	0	0	0.481	21.63	450	21.59	451
167	0	0	0	0.481	22	442	21.95	444
212	0	0	0	0.481	22.44	434	22.39	435

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.153

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.58	33.5	1500	33.5	1500*
0	0	0	0	0.481	32.38	472	32.32	473
30	0	0	0	0.481	32.72	467	32.66	468
40	0	0	0	0.481	32.83	466	32.78	466
50	0	0	0	0.481	32.95	464	32.89	465
60	0	0	0	0.481	33.06	463	33.01	463
70	0	0	0	0.481	33.17	461	33.12	462
80	0	0	0	0.481	33.28	460	33.24	460
90	0	0	0	0.481	33.39	458	33.35	459
100	0	0	0	0.481	33.5	457	33.47	457
110	0	0	0	0.481	33.61	455	33.58	456
120	0	0	0	0.481	33.73	454	33.69	454
130	0	0	0	0.481	33.84	452	33.79	453
167	0	0	0	0.481	34.21	448	34.16	448
212	0	0	0	0.481	34.66	442	34.6	443

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-9
100	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5
125	1-0	1-1	1-2	1-4	1-6	1-7	1-9	1-11	2-0	2-2
150	1-5	1-7	1-9	1-11	2-1	2-4	2-6	2-8	2-11	3-1
175	1-11	2-2	2-4	2-7	2-10	3-2	3-5	3-8	3-11	4-3
200	2-7	2-10	3-1	3-5	3-9	4-1	4-5	4-10	5-2	5-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-8	0-9	0-9
100	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
125	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-1	2-2
150	1-6	1-8	1-10	2-0	2-2	2-4	2-7	2-9	3-0	3-2
175	2-0	2-3	2-5	2-8	3-0	3-3	3-6	3-9	4-0	4-4
200	2-7	2-11	3-2	3-6	3-10	4-3	4-7	4-11	5-3	5-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.155

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-1	1-1	1-2	1-2	1-2	1-3	1-3	1-3	1-4	1-4
125	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-0	2-1	2-1
150	2-5	2-6	2-7	2-8	2-8	2-9	2-10	2-11	2-11	3-0
175	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1
200	4-4	4-5	4-7	4-8	4-10	4-11	5-0	5-2	5-3	5-4
225	5-6	5-8	5-9	5-11	6-1	6-3	6-4	6-6	6-8	6-9
250	6-9	7-0	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-1	1-2	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-4
125	1-9	1-9	1-10	1-10	1-11	1-11	2-0	2-0	2-1	2-1
150	2-6	2-6	2-7	2-8	2-9	2-9	2-10	2-11	3-0	3-0
175	3-4	3-5	3-6	3-8	3-9	3-10	3-11	4-0	4-1	4-1
200	4-5	4-6	4-7	4-9	4-10	5-0	5-1	5-2	5-3	5-5
225	5-7	5-8	5-10	6-0	6-2	6-3	6-5	6-7	6-8	6-10
250	6-10	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.156

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-9	2-9	2-10	2-10	2-10	2-11	2-11	2-11	3-0	3-0
175	3-9	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-0	4-1
200	4-10	4-11	5-0	5-0	5-1	5-2	5-2	5-3	5-3	5-4
225	6-2	6-3	6-4	6-4	6-5	6-6	6-7	6-7	6-8	6-9
250	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-4
275	9-3	9-4	9-5	9-6	9-7	9-8	9-10	9-11	10-0	10-1
300	11-0	11-1	11-2	11-4	11-5	11-7	11-8	11-9	11-11	12-0
325	12-11	13-0	13-2	13-3	13-5	13-7	13-8	13-10	13-11	14-1
350	14-11	15-1	15-3	15-5	15-7	15-9	15-11	16-0	16-2	16-4
375	17-2	17-4	17-6	17-8	17-11	18-1	18-3	18-5	18-7	18-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-9	2-9	2-10	2-10	2-10	2-11	2-11	2-11	3-0	3-0
175	3-9	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-1	4-1
200	4-11	4-11	5-0	5-1	5-1	5-2	5-2	5-3	5-4	5-4
225	6-2	6-3	6-4	6-5	6-5	6-6	6-7	6-8	6-8	6-9
250	7-8	7-9	7-10	7-11	8-0	8-1	8-1	8-2	8-3	8-4
275	9-3	9-4	9-5	9-7	9-8	9-9	9-10	9-11	10-0	10-1
300	11-0	11-2	11-3	11-4	11-6	11-7	11-8	11-10	11-11	12-0
325	12-11	13-1	13-3	13-4	13-6	13-7	13-9	13-10	14-0	14-2
350	15-0	15-2	15-4	15-6	15-8	15-10	15-11	16-1	16-3	16-5
375	17-3	17-5	17-7	17-9	18-0	18-2	18-4	18-6	18-8	18-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.157

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	5-1	5-1	5-2	5-2	5-2	5-3	5-3	5-3	5-4	5-4
225	6-5	6-6	6-6	6-6	6-7	6-7	6-8	6-8	6-9	6-9
250	7-11	8-0	8-0	8-1	8-1	8-2	8-2	8-3	8-3	8-4
275	9-7	9-8	9-9	9-9	9-10	9-10	9-11	10-0	10-0	10-1
300	11-5	11-6	11-7	11-7	11-8	11-9	11-10	11-11	11-11	12-0
325	13-5	13-6	13-7	13-8	13-9	13-10	13-10	13-11	14-0	14-1
350	15-7	15-8	15-9	15-10	15-11	16-0	16-1	16-2	16-3	16-4
375	17-11	18-0	18-1	18-2	18-3	18-5	18-6	18-7	18-8	18-9
400	20-4	20-6	20-7	20-8	20-10	20-11	21-0	21-2	21-3	21-5
425	23-0	23-1	23-3	23-4	23-6	23-8	23-9	23-11	24-0	24-2
450	25-9	25-11	26-1	26-3	26-4	26-6	26-8	26-10	26-11	27-1
475	28-9	28-11	29-1	29-3	29-5	29-7	29-9	29-10	30-0	30-2
500	31-10	32-0	32-3	32-5	32-7	32-9	32-11	33-1	33-4	33-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	5-1	5-1	5-2	5-2	5-2	5-3	5-3	5-3	5-4	5-4
225	6-5	6-6	6-6	6-7	6-7	6-7	6-8	6-8	6-9	6-9
250	7-11	8-0	8-1	8-1	8-2	8-2	8-3	8-3	8-4	8-4
275	9-8	9-8	9-9	9-9	9-10	9-11	9-11	10-0	10-1	10-1
300	11-6	11-6	11-7	11-8	11-9	11-9	11-10	11-11	12-0	12-0
325	13-5	13-6	13-7	13-8	13-9	13-10	13-11	14-0	14-1	14-1
350	15-7	15-8	15-9	15-10	15-11	16-1	16-2	16-3	16-4	16-5
375	17-11	18-0	18-2	18-3	18-4	18-5	18-6	18-7	18-9	18-10
400	20-5	20-6	20-8	20-9	20-10	21-0	21-1	21-2	21-4	21-5
425	23-1	23-2	23-4	23-5	23-7	23-8	23-10	23-11	24-1	24-2
450	25-10	26-0	26-2	26-3	26-5	26-7	26-9	26-10	27-0	27-2
475	28-10	29-0	29-2	29-4	29-5	29-7	29-9	29-11	30-1	30-3
500	31-11	32-1	32-4	32-6	32-8	32-10	33-0	33-2	33-4	33-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.158

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	8-1	8-2	8-2	8-2	8-3	8-3	8-3	8-4	8-4	8-4
275	9-10	9-10	9-11	9-11	9-11	10-0	10-0	10-1	10-1	10-1
300	11-8	11-9	11-9	11-10	11-10	11-11	11-11	12-0	12-0	12-1
325	13-8	13-9	13-10	13-10	13-11	13-11	14-0	14-1	14-1	14-2
350	15-11	16-0	16-0	16-1	16-2	16-2	16-3	16-4	16-4	16-5
375	18-3	18-4	18-5	18-5	18-6	18-7	18-8	18-9	18-9	18-10
400	20-9	20-10	20-11	21-0	21-1	21-2	21-3	21-4	21-4	21-5
425	23-6	23-7	23-8	23-9	23-10	23-11	24-0	24-1	24-2	24-3
450	26-4	26-5	26-6	26-7	26-8	26-10	26-11	27-0	27-1	27-2
475	29-4	29-6	29-7	29-8	29-9	29-11	30-0	30-1	30-2	30-3
500	32-7	32-8	32-9	32-11	33-0	33-1	33-3	33-4	33-6	33-7
525	35-11	36-0	36-2	36-3	36-5	36-6	36-8	36-10	36-11	37-1
550	39-5	39-7	39-9	39-10	40-0	40-2	40-3	40-5	40-7	40-8
575	43-1	43-3	43-5	43-7	43-9	43-11	44-0	44-2	44-4	44-6
600	47-0	47-2	47-4	47-6	47-8	47-10	48-0	48-2	48-4	48-6
625	51-0	51-2	51-5	51-7	51-9	51-11	52-1	52-3	52-6	52-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	8-1	8-2	8-2	8-2	8-3	8-3	8-3	8-4	8-4	8-4
275	9-10	9-10	9-11	9-11	10-0	10-0	10-0	10-1	10-1	10-2
300	11-8	11-9	11-9	11-10	11-10	11-11	11-11	12-0	12-0	12-1
325	13-9	13-9	13-10	13-10	13-11	14-0	14-0	14-1	14-1	14-2
350	15-11	16-0	16-1	16-1	16-2	16-2	16-3	16-4	16-4	16-5
375	18-4	18-4	18-5	18-6	18-7	18-7	18-8	18-9	18-10	18-10
400	20-10	20-11	21-0	21-1	21-1	21-2	21-3	21-4	21-5	21-6
425	23-6	23-7	23-8	23-9	23-10	23-11	24-0	24-1	24-2	24-3
450	26-5	26-6	26-7	26-8	26-9	26-10	26-11	27-0	27-1	27-2
475	29-5	29-6	29-7	29-9	29-10	29-11	30-0	30-1	30-3	30-4
500	32-7	32-9	32-10	32-11	33-1	33-2	33-3	33-5	33-6	33-7
525	36-0	36-1	36-3	36-4	36-6	36-7	36-9	36-10	37-0	37-1
550	39-6	39-8	39-9	39-11	40-1	40-2	40-4	40-5	40-7	40-9
575	43-2	43-4	43-6	43-8	43-10	43-11	44-1	44-3	44-5	44-6
600	47-1	47-3	47-5	47-7	47-9	47-11	48-1	48-3	48-4	48-6
625	51-1	51-3	51-6	51-8	51-10	52-0	52-2	52-4	52-6	52-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.58	0.99	2000	0.99	2000*
0	0	0	0	0.481	0.32	1875	0.32	1880
30	0	0	0	0.481	0.4	1508	0.39	1538
40	0	0	0	0.481	0.43	1390	0.42	1426
50	0	0	0	0.481	0.47	1275	0.46	1315
60	0	0	0	0.481	0.52	1164	0.5	1207
70	0	0	0	0.481	0.57	1058	0.55	1102
80	0	0	0	0.481	0.63	958	0.6	1003
90	0	0	0	0.481	0.69	866	0.66	909
100	0	0	0	0.481	0.77	783	0.73	823
110	0	0	0	0.481	0.85	710	0.81	745
120	0	0	0	0.481	0.93	645	0.89	676
130	0	0	0	0.481	1.02	590	0.98	616
167	0	0	0	0.481	1.32	456	1.26	476
212	0	0	0	0.481	1.65	365	1.59	378

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.58	3.96	2000	3.96	2000*
0	0	0	0	0.481	2.23	1080	2.17	1111
30	0	0	0	0.481	2.64	911	2.57	938
40	0	0	0	0.481	2.78	865	2.71	890
50	0	0	0	0.481	2.92	823	2.85	846
60	0	0	0	0.481	3.06	786	2.99	806
70	0	0	0	0.481	3.2	751	3.13	770
80	0	0	0	0.481	3.34	721	3.27	737
90	0	0	0	0.481	3.48	692	3.4	707
100	0	0	0	0.481	3.61	667	3.54	680
110	0	0	0	0.481	3.74	643	3.67	655
120	0	0	0	0.481	3.87	622	3.81	633
130	0	0	0	0.481	4	602	3.94	612
167	0	0	0	0.481	4.43	544	4.36	553
212	0	0	0	0.481	4.9	492	4.82	500

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.160

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.58	8.92	2000	8.92	2000*
0	0	0	0	0.481	7.01	773	6.91	785
30	0	0	0	0.481	7.49	724	7.4	734
40	0	0	0	0.481	7.65	709	7.55	718
50	0	0	0	0.481	7.8	695	7.71	704
60	0	0	0	0.481	7.96	682	7.86	690
70	0	0	0	0.481	8.11	669	8.02	677
80	0	0	0	0.481	8.25	658	8.17	664
90	0	0	0	0.481	8.4	646	8.32	653
100	0	0	0	0.481	8.54	635	8.47	641
110	0	0	0	0.481	8.69	625	8.61	630
120	0	0	0	0.481	8.83	615	8.76	620
130	0	0	0	0.481	8.97	606	8.9	610
167	0	0	0	0.481	9.45	575	9.37	580
212	0	0	0	0.481	9.97	545	9.9	549

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.58	15.9	2000	15.9	2000*
0	0	0	0	0.481	13.99	691	13.88	696
30	0	0	0	0.481	14.46	669	14.36	674
40	0	0	0	0.481	14.61	662	14.51	666
50	0	0	0	0.481	14.77	655	14.67	659
60	0	0	0	0.481	14.92	648	14.82	652
70	0	0	0	0.481	15.07	642	14.98	646
80	0	0	0	0.481	15.22	636	15.13	639
90	0	0	0	0.481	15.37	630	15.28	633
100	0	0	0	0.481	15.51	624	15.43	627
110	0	0	0	0.481	15.66	618	15.58	621
120	0	0	0	0.481	15.8	612	15.73	615
130	0	0	0	0.481	15.95	607	15.88	610
167	0	0	0	0.481	16.45	589	16.37	592
212	0	0	0	0.481	17.01	570	16.93	572

* Design Condition

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SHEET 161 OF 215

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.161

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.58	24.93	2000	24.93	2000*
0	0	0	0	0.481	23.02	658	22.92	661
30	0	0	0	0.481	23.49	646	23.39	648
40	0	0	0	0.481	23.64	641	23.54	644
50	0	0	0	0.481	23.79	637	23.7	640
60	0	0	0	0.481	23.94	634	23.85	636
70	0	0	0	0.481	24.1	630	24	632
80	0	0	0	0.481	24.24	626	24.16	628
90	0	0	0	0.481	24.39	622	24.31	624
100	0	0	0	0.481	24.54	618	24.46	620
110	0	0	0	0.481	24.69	615	24.61	617
120	0	0	0	0.481	24.83	611	24.76	613
130	0	0	0	0.481	24.98	608	24.91	609
167	0	0	0	0.481	25.49	596	25.41	598
212	0	0	0	0.481	26.07	583	25.99	585

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.162

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
100	0-4	0-5	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10
125	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-3
150	0-10	0-11	0-11	1-0	1-1	1-3	1-4	1-6	1-8	1-10
175	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-3	2-6
200	1-5	1-7	1-8	1-10	2-0	2-2	2-5	2-8	2-11	3-3

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
100	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10
125	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4
150	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	1-11
175	1-2	1-3	1-4	1-5	1-7	1-9	1-11	2-2	2-4	2-7
200	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-9	3-1	3-5

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SHEET 163 OF 215

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.163

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-7	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	0-11
125	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-5
150	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1
175	1-10	2-0	2-1	2-2	2-3	2-5	2-6	2-7	2-9	2-10
200	2-5	2-7	2-8	2-10	3-0	3-2	3-3	3-5	3-6	3-8
225	3-1	3-3	3-5	3-7	3-9	3-11	4-2	4-4	4-6	4-8
250	3-10	4-0	4-3	4-5	4-8	4-11	5-1	5-4	5-6	5-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-8	0-8	0-8	0-9	0-9	0-10	0-10	0-10	0-11	0-11
125	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6
150	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-1
175	1-11	2-0	2-2	2-3	2-4	2-5	2-7	2-8	2-9	2-10
200	2-6	2-8	2-9	2-11	3-1	3-2	3-4	3-6	3-7	3-9
225	3-2	3-4	3-6	3-8	3-11	4-1	4-3	4-5	4-7	4-9
250	3-11	4-2	4-4	4-7	4-9	5-0	5-3	5-5	5-8	5-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.164

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-10	1-10	1-11	1-11	2-0	2-0	2-0	2-1	2-1	2-2
175	2-6	2-6	2-7	2-7	2-8	2-9	2-9	2-10	2-11	2-11
200	3-3	3-3	3-4	3-5	3-6	3-7	3-8	3-8	3-9	3-10
225	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10
250	5-0	5-2	5-3	5-4	5-6	5-7	5-8	5-9	5-11	6-0
275	6-1	6-3	6-4	6-6	6-7	6-9	6-10	7-0	7-1	7-3
300	7-3	7-5	7-7	7-9	7-10	8-0	8-2	8-4	8-6	8-7
325	8-6	8-8	8-10	9-1	9-3	9-5	9-7	9-9	9-11	10-1
350	9-10	10-1	10-3	10-6	10-8	10-11	11-1	11-4	11-6	11-9
375	11-4	11-7	11-10	12-1	12-4	12-6	12-9	13-0	13-3	13-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-10	1-10	1-11	1-11	2-0	2-0	2-1	2-1	2-2	2-2
175	2-6	2-7	2-7	2-8	2-8	2-9	2-10	2-10	2-11	2-11
200	3-3	3-4	3-5	3-6	3-6	3-7	3-8	3-9	3-10	3-10
225	4-1	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11
250	5-1	5-2	5-4	5-5	5-6	5-8	5-9	5-10	5-11	6-0
275	6-2	6-4	6-5	6-7	6-8	6-10	6-11	7-1	7-2	7-4
300	7-4	7-6	7-8	7-10	7-11	8-1	8-3	8-5	8-7	8-8
325	8-7	8-10	9-0	9-2	9-4	9-6	9-8	9-10	10-0	10-2
350	10-0	10-2	10-5	10-8	10-10	11-0	11-3	11-5	11-8	11-10
375	11-6	11-9	12-0	12-2	12-5	12-8	12-11	13-2	13-4	13-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.165

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	3-7	3-7	3-7	3-8	3-8	3-9	3-9	3-10	3-10	3-11
225	4-6	4-6	4-7	4-8	4-8	4-9	4-9	4-10	4-11	4-11
250	5-6	5-7	5-8	5-9	5-9	5-10	5-11	6-0	6-0	6-1
275	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-3	7-4
300	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9
325	9-4	9-6	9-7	9-8	9-9	9-11	10-0	10-1	10-2	10-3
350	10-10	11-0	11-1	11-3	11-4	11-6	11-7	11-8	11-10	11-11
375	12-6	12-7	12-9	12-11	13-0	13-2	13-4	13-5	13-7	13-8
400	14-2	14-4	14-6	14-8	14-10	15-0	15-2	15-3	15-5	15-7
425	16-0	16-3	16-5	16-7	16-9	16-11	17-1	17-3	17-5	17-7
450	18-0	18-2	18-5	18-7	18-9	19-0	19-2	19-4	19-7	19-9
475	20-0	20-3	20-6	20-8	20-11	21-2	21-4	21-7	21-9	22-0
500	22-2	22-5	22-8	22-11	23-2	23-5	23-8	23-11	24-2	24-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	3-7	3-7	3-8	3-8	3-9	3-9	3-10	3-10	3-10	3-11
225	4-6	4-7	4-7	4-8	4-9	4-9	4-10	4-10	4-11	4-11
250	5-7	5-8	5-8	5-9	5-10	5-11	5-11	6-0	6-1	6-1
275	6-9	6-10	6-11	7-0	7-1	7-1	7-2	7-3	7-4	7-5
300	8-0	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10
325	9-5	9-6	9-8	9-9	9-10	9-11	10-0	10-2	10-3	10-4
350	10-11	11-1	11-2	11-4	11-5	11-6	11-8	11-9	11-10	12-0
375	12-7	12-8	12-10	13-0	13-1	13-3	13-4	13-6	13-8	13-9
400	14-4	14-6	14-7	14-9	14-11	15-1	15-3	15-4	15-6	15-8
425	16-2	16-4	16-6	16-8	16-10	17-0	17-2	17-4	17-6	17-8
450	18-1	18-4	18-6	18-8	18-11	19-1	19-3	19-6	19-8	19-10
475	20-2	20-5	20-7	20-10	21-1	21-3	21-6	21-8	21-11	22-1
500	22-4	22-7	22-10	23-1	23-4	23-7	23-10	24-0	24-3	24-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.166

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	5-10	5-10	5-10	5-11	5-11	6-0	6-0	6-1	6-1	6-2
275	7-0	7-1	7-1	7-2	7-2	7-3	7-3	7-4	7-5	7-5
300	8-4	8-5	8-6	8-6	8-7	8-7	8-8	8-9	8-9	8-10
325	9-10	9-10	9-11	10-0	10-1	10-1	10-2	10-3	10-4	10-5
350	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-0
375	13-1	13-2	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-10
400	14-10	14-11	15-1	15-2	15-3	15-4	15-5	15-6	15-8	15-9
425	16-9	16-11	17-0	17-1	17-3	17-4	17-5	17-7	17-8	17-9
450	18-10	18-11	19-1	19-2	19-4	19-5	19-7	19-8	19-10	19-11
475	21-0	21-1	21-3	21-5	21-6	21-8	21-10	21-11	22-1	22-2
500	23-3	23-5	23-6	23-8	23-10	24-0	24-2	24-4	24-6	24-7
525	25-7	25-9	26-0	26-2	26-4	26-6	26-8	26-10	27-0	27-2
550	28-1	28-4	28-6	28-8	28-11	29-1	29-3	29-5	29-7	29-10
575	30-9	30-11	31-2	31-4	31-7	31-9	32-0	32-2	32-5	32-7
600	33-6	33-9	33-11	34-2	34-5	34-7	34-10	35-1	35-3	35-6
625	36-4	36-7	36-10	37-1	37-4	37-7	37-10	38-1	38-3	38-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	5-10	5-10	5-11	5-11	6-0	6-0	6-1	6-1	6-1	6-2
275	7-1	7-1	7-2	7-2	7-3	7-3	7-4	7-4	7-5	7-5
300	8-5	8-5	8-6	8-7	8-7	8-8	8-9	8-9	8-10	8-10
325	9-10	9-11	10-0	10-0	10-1	10-2	10-3	10-3	10-4	10-5
350	11-5	11-6	11-7	11-8	11-9	11-9	11-10	11-11	12-0	12-1
375	13-1	13-2	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-10
400	14-11	15-0	15-1	15-3	15-4	15-5	15-6	15-7	15-8	15-9
425	16-10	16-11	17-1	17-2	17-3	17-5	17-6	17-7	17-9	17-10
450	18-11	19-0	19-2	19-3	19-5	19-6	19-8	19-9	19-10	20-0
475	21-1	21-2	21-4	21-6	21-7	21-9	21-10	22-0	22-2	22-3
500	23-4	23-6	23-8	23-10	23-11	24-1	24-3	24-5	24-6	24-8
525	25-9	25-11	26-1	26-3	26-5	26-7	26-9	26-11	27-1	27-3
550	28-3	28-5	28-7	28-10	29-0	29-2	29-4	29-6	29-9	29-11
575	30-11	31-1	31-4	31-6	31-8	31-11	32-1	32-4	32-6	32-8
600	33-8	33-10	34-1	34-4	34-6	34-9	35-0	35-2	35-5	35-7
625	36-6	36-9	37-0	37-3	37-6	37-9	37-11	38-2	38-5	38-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.167

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.607	3.27	1000	3.27	1000*
20	0	0	0	0.481	2.83	213	2.81	214
30	0	0	0	0.481	2.88	209	2.86	211
40	0	0	0	0.481	2.93	206	2.91	207
50	0	0	0	0.481	2.98	202	2.97	203
60	0	0	0	0.481	3.03	199	3.01	200
70	0	0	0	0.481	3.08	196	3.06	197
80	0	0	0	0.481	3.13	193	3.11	194
90	0	0	0	0.481	3.17	190	3.16	191
100	0	0	0	0.481	3.22	188	3.2	189
110	0	0	0	0.481	3.26	185	3.24	186
120	0	0	0	0.481	3.3	183	3.28	184
130	0	0	0	0.481	3.34	181	3.32	182
167	0	0	0	0.481	3.49	173	3.46	174
212	0	0	0	0.481	3.65	165	3.63	166

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.607	13.26	1000	13.26	1000*
20	0	0	0	0.481	12.84	190	12.82	191
30	0	0	0	0.481	12.89	190	12.87	190
40	0	0	0	0.481	12.93	189	12.91	189
50	0	0	0	0.481	12.98	188	12.96	189
60	0	0	0	0.481	13.03	188	13.01	188
70	0	0	0	0.481	13.07	187	13.06	187
80	0	0	0	0.481	13.12	187	13.1	187
90	0	0	0	0.481	13.16	186	13.15	186
100	0	0	0	0.481	13.21	185	13.19	186
110	0	0	0	0.481	13.25	185	13.23	185
120	0	0	0	0.481	13.29	184	13.27	184
130	0	0	0	0.481	13.33	184	13.31	184
167	0	0	0	0.481	13.48	182	13.46	182
212	0	0	0	0.481	13.67	179	13.64	180

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.607	30.55	1000	30.55	1000*
20	0	0	0	0.481	30.13	187	30.11	187
30	0	0	0	0.481	30.17	187	30.15	187
40	0	0	0	0.481	30.22	186	30.2	186
50	0	0	0	0.481	30.26	186	30.25	186
60	0	0	0	0.481	30.31	186	30.29	186
70	0	0	0	0.481	30.35	186	30.34	186
80	0	0	0	0.481	30.4	185	30.39	185
90	0	0	0	0.481	30.45	185	30.43	185
100	0	0	0	0.481	30.49	185	30.47	185
110	0	0	0	0.481	30.53	185	30.51	185
120	0	0	0	0.481	30.58	184	30.55	184
130	0	0	0	0.481	30.62	184	30.59	184
167	0	0	0	0.481	30.77	183	30.75	183
212	0	0	0	0.481	30.95	182	30.93	182

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.607	56.29	1000	56.29	1000*
20	0	0	0	0.481	55.87	186	55.85	186
30	0	0	0	0.481	55.92	186	55.9	186
40	0	0	0	0.481	55.97	185	55.95	185
50	0	0	0	0.481	56.01	185	55.99	185
60	0	0	0	0.481	56.06	185	56.04	185
70	0	0	0	0.481	56.1	185	56.09	185
80	0	0	0	0.481	56.15	185	56.13	185
90	0	0	0	0.481	56.19	185	56.17	185
100	0	0	0	0.481	56.24	185	56.22	185
110	0	0	0	0.481	56.28	185	56.26	185
120	0	0	0	0.481	56.32	184	56.3	185
130	0	0	0	0.481	56.36	184	56.34	184
167	0	0	0	0.481	56.51	184	56.49	184
212	0	0	0	0.481	56.7	183	56.67	183

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.607	92.8	1000	92.8	1000*
20	0	0	0	0.481	92.38	185	92.36	185
30	0	0	0	0.481	92.43	185	92.41	185
40	0	0	0	0.481	92.47	185	92.46	185
50	0	0	0	0.481	92.52	185	92.5	185
60	0	0	0	0.481	92.56	185	92.55	185
70	0	0	0	0.481	92.61	185	92.59	185
80	0	0	0	0.481	92.65	185	92.64	185
90	0	0	0	0.481	92.7	185	92.68	185
100	0	0	0	0.481	92.74	185	92.72	185
110	0	0	0	0.481	92.79	185	92.76	185
120	0	0	0	0.481	92.83	184	92.8	185
130	0	0	0	0.481	92.87	184	92.84	184
167	0	0	0	0.481	93.02	184	93	184
212	0	0	0	0.481	93.2	184	93.18	184

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.170

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	1-7	1-7	1-8	1-8	1-8	1-9	1-9	1-9	1-10	1-10
100	2-10	2-10	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3
125	4-5	4-6	4-7	4-8	4-9	4-9	4-10	4-11	5-0	5-1
150	6-4	6-5	6-7	6-8	6-10	6-11	7-0	7-1	7-2	7-4
175	8-8	8-9	8-11	9-1	9-3	9-5	9-7	9-8	9-10	9-11
200	11-3	11-6	11-8	11-11	12-1	12-4	12-6	12-8	12-10	13-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	1-7	1-7	1-8	1-8	1-8	1-9	1-9	1-9	1-10	1-10
100	2-10	2-11	2-11	3-0	3-0	3-1	3-2	3-2	3-3	3-3
125	4-5	4-6	4-7	4-8	4-9	4-10	4-11	5-0	5-0	5-1
150	6-5	6-6	6-7	6-9	6-10	6-11	7-1	7-2	7-3	7-4
175	8-8	8-10	9-0	9-2	9-4	9-5	9-7	9-9	9-11	10-0
200	11-4	11-7	11-9	12-0	12-2	12-4	12-7	12-9	12-11	13-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	3-2	3-2	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-4
125	5-0	5-0	5-0	5-1	5-1	5-1	5-1	5-1	5-2	5-2
150	7-2	7-3	7-3	7-3	7-4	7-4	7-4	7-5	7-5	7-5
175	9-10	9-10	9-11	9-11	9-11	10-0	10-0	10-1	10-1	10-1
200	12-10	12-10	12-11	13-0	13-0	13-1	13-1	13-2	13-2	13-3
225	16-3	16-4	16-4	16-5	16-6	16-7	16-7	16-8	16-9	16-9
250	20-1	20-2	20-3	20-4	20-5	20-6	20-6	20-7	20-8	20-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	3-2	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-4
125	5-0	5-0	5-0	5-1	5-1	5-1	5-1	5-1	5-2	5-2
150	7-2	7-3	7-3	7-3	7-4	7-4	7-4	7-5	7-5	7-5
175	9-10	9-10	9-11	9-11	10-0	10-0	10-0	10-1	10-1	10-2
200	12-10	12-11	12-11	13-0	13-0	13-1	13-1	13-2	13-2	13-3
225	16-3	16-4	16-5	16-5	16-6	16-7	16-8	16-8	16-9	16-10
250	20-2	20-2	20-3	20-4	20-5	20-6	20-7	20-8	20-8	20-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.172

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	7-5	7-6	7-6	7-6	7-6	7-6	7-6	7-6	7-6	7-7
175	10-2	10-2	10-2	10-2	10-3	10-3	10-3	10-3	10-3	10-3
200	13-3	13-4	13-4	13-4	13-4	13-5	13-5	13-5	13-5	13-6
225	16-10	16-10	16-11	16-11	16-11	17-0	17-0	17-0	17-0	17-1
250	20-10	20-10	20-11	20-11	20-11	21-0	21-0	21-1	21-1	21-1
275	25-3	25-3	25-4	25-4	25-5	25-5	25-6	25-6	25-7	25-7
300	30-1	30-2	30-2	30-3	30-4	30-4	30-5	30-5	30-6	30-6
325	35-5	35-6	35-6	35-7	35-8	35-8	35-9	35-10	35-10	35-11
350	41-2	41-3	41-4	41-4	41-5	41-6	41-7	41-7	41-8	41-9
375	47-5	47-6	47-6	47-7	47-8	47-9	47-10	47-11	48-0	48-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	7-5	7-6	7-6	7-6	7-6	7-6	7-6	7-6	7-7	7-7
175	10-2	10-2	10-2	10-3	10-3	10-3	10-3	10-3	10-3	10-4
200	13-4	13-4	13-4	13-4	13-4	13-5	13-5	13-5	13-5	13-6
225	16-10	16-11	16-11	16-11	16-11	17-0	17-0	17-0	17-1	17-1
250	20-10	20-10	20-11	20-11	21-0	21-0	21-0	21-1	21-1	21-1
275	25-3	25-4	25-4	25-5	25-5	25-5	25-6	25-6	25-7	25-7
300	30-2	30-2	30-3	30-3	30-4	30-4	30-5	30-5	30-6	30-6
325	35-5	35-6	35-7	35-7	35-8	35-8	35-9	35-10	35-10	35-11
350	41-2	41-3	41-4	41-5	41-5	41-6	41-7	41-8	41-8	41-9
375	47-5	47-6	47-7	47-8	47-9	47-9	47-10	47-11	48-0	48-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.173

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	13-8	13-9	13-9	13-9	13-9	13-9	13-9	13-9	13-10	13-10
225	17-5	17-5	17-5	17-5	17-5	17-5	17-6	17-6	17-6	17-6
250	21-6	21-6	21-6	21-7	21-7	21-7	21-7	21-7	21-8	21-8
275	26-1	26-1	26-1	26-1	26-2	26-2	26-2	26-2	26-3	26-3
300	31-1	31-1	31-2	31-2	31-2	31-2	31-3	31-3	31-3	31-4
325	36-7	36-7	36-7	36-8	36-8	36-9	36-9	36-9	36-10	36-10
350	42-6	42-7	42-7	42-7	42-8	42-8	42-9	42-9	42-9	42-10
375	48-11	49-0	49-0	49-1	49-1	49-2	49-2	49-3	49-3	49-4
400	55-10	55-11	55-11	56-0	56-0	56-1	56-2	56-2	56-3	56-3
425	63-3	63-4	63-4	63-5	63-6	63-6	63-7	63-7	63-8	63-9
450	71-2	71-3	71-3	71-4	71-5	71-5	71-6	71-7	71-7	71-8
475	79-7	79-8	79-8	79-9	79-10	79-11	80-0	80-0	80-1	80-2
500	88-6	88-7	88-8	88-9	88-9	88-10	88-11	89-0	89-1	89-2

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	13-9	13-9	13-9	13-9	13-9	13-9	13-9	13-9	13-10	13-10
225	17-5	17-5	17-5	17-5	17-5	17-5	17-6	17-6	17-6	17-6
250	21-6	21-6	21-6	21-7	21-7	21-7	21-7	21-7	21-8	21-8
275	26-1	26-1	26-1	26-2	26-2	26-2	26-2	26-3	26-3	26-3
300	31-1	31-1	31-2	31-2	31-2	31-3	31-3	31-3	31-3	31-4
325	36-7	36-7	36-8	36-8	36-8	36-9	36-9	36-9	36-10	36-10
350	42-6	42-7	42-7	42-8	42-8	42-8	42-9	42-9	42-10	42-10
375	49-0	49-0	49-0	49-1	49-1	49-2	49-2	49-3	49-3	49-4
400	55-10	55-11	56-0	56-0	56-1	56-1	56-2	56-2	56-3	56-3
425	63-3	63-4	63-5	63-5	63-6	63-6	63-7	63-8	63-8	63-9
450	71-2	71-3	71-4	71-4	71-5	71-6	71-6	71-7	71-8	71-8
475	79-7	79-8	79-9	79-9	79-10	79-11	80-0	80-1	80-1	80-2
500	88-6	88-7	88-8	88-9	88-10	88-11	89-0	89-0	89-1	89-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.174

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	22-5	22-5	22-5	22-5	22-5	22-5	22-5	22-5	22-6	22-6
275	27-2	27-2	27-2	27-2	27-2	27-2	27-3	27-3	27-3	27-3
300	32-5	32-5	32-5	32-5	32-5	32-5	32-6	32-6	32-6	32-6
325	38-1	38-1	38-2	38-2	38-2	38-2	38-2	38-3	38-3	38-3
350	44-4	44-4	44-4	44-4	44-5	44-5	44-5	44-5	44-6	44-6
375	51-0	51-1	51-1	51-1	51-1	51-2	51-2	51-2	51-3	51-3
400	58-3	58-3	58-3	58-4	58-4	58-5	58-5	58-5	58-5	58-6
425	66-0	66-0	66-0	66-1	66-1	66-2	66-2	66-2	66-3	66-3
450	74-3	74-3	74-4	74-4	74-4	74-5	74-5	74-6	74-6	74-7
475	83-0	83-1	83-1	83-2	83-2	83-3	83-3	83-4	83-4	83-5
500	92-4	92-5	92-5	92-6	92-7	92-7	92-8	92-8	92-9	92-9
525	102-3	102-4	102-4	102-5	102-6	102-6	102-7	102-7	102-8	102-9
550	112-9	112-10	112-10	112-11	113-0	113-0	113-1	113-2	113-2	113-3
575	123-10	123-10	123-11	124-0	124-1	124-1	124-2	124-3	124-3	124-4
600	135-5	135-6	135-7	135-8	135-9	135-10	135-10	135-11	136-0	136-1
625	147-9	147-10	147-10	147-11	148-0	148-1	148-2	148-3	148-4	148-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	22-5	22-5	22-5	22-5	22-5	22-5	22-5	22-5	22-6	22-6
275	27-2	27-2	27-2	27-2	27-2	27-3	27-3	27-3	27-3	27-3
300	32-5	32-5	32-5	32-5	32-5	32-6	32-6	32-6	32-6	32-6
325	38-1	38-1	38-2	38-2	38-2	38-2	38-3	38-3	38-3	38-3
350	44-4	44-4	44-4	44-5	44-5	44-5	44-5	44-6	44-6	44-6
375	51-0	51-1	51-1	51-1	51-1	51-2	51-2	51-2	51-3	51-3
400	58-3	58-3	58-4	58-4	58-4	58-5	58-5	58-5	58-6	58-6
425	66-0	66-0	66-1	66-1	66-1	66-2	66-2	66-2	66-3	66-3
450	74-3	74-3	74-4	74-4	74-5	74-5	74-5	74-6	74-6	74-7
475	83-0	83-1	83-1	83-2	83-2	83-3	83-3	83-4	83-4	83-5
500	92-5	92-5	92-6	92-6	92-7	92-7	92-8	92-8	92-9	92-9
525	102-3	102-4	102-5	102-5	102-6	102-6	102-7	102-8	102-8	102-9
550	112-9	112-10	112-10	112-11	113-0	113-0	113-1	113-2	113-2	113-3
575	123-10	123-11	123-11	124-0	124-1	124-2	124-2	124-3	124-4	124-4
600	135-6	135-7	135-7	135-8	135-9	135-10	135-11	135-11	136-0	136-1
625	147-9	147-10	147-11	148-0	148-1	148-2	148-2	148-3	148-4	148-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.175

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.607	2.18	1500	2.18	1500*
20	0	0	0	0.481	1.24	483	1.2	500
30	0	0	0	0.481	1.33	452	1.29	466
40	0	0	0	0.481	1.42	425	1.38	437
50	0	0	0	0.481	1.5	401	1.46	412
60	0	0	0	0.481	1.58	381	1.54	390
70	0	0	0	0.481	1.66	363	1.62	370
80	0	0	0	0.481	1.74	347	1.7	353
90	0	0	0	0.481	1.81	332	1.78	338
100	0	0	0	0.481	1.88	320	1.85	325
110	0	0	0	0.481	1.95	308	1.92	314
120	0	0	0	0.481	2.02	298	1.98	304
130	0	0	0	0.481	2.08	289	2.04	295
167	0	0	0	0.481	2.3	262	2.26	267
212	0	0	0	0.481	2.54	238	2.5	241

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.607	8.76	1500	8.76	1500*
20	0	0	0	0.481	7.89	307	7.85	308
30	0	0	0	0.481	7.96	304	7.92	306
40	0	0	0	0.481	8.04	301	8	303
50	0	0	0	0.481	8.11	299	8.07	300
60	0	0	0	0.481	8.18	296	8.14	297
70	0	0	0	0.481	8.25	293	8.22	295
80	0	0	0	0.481	8.32	291	8.29	292
90	0	0	0	0.481	8.39	289	8.36	290
100	0	0	0	0.481	8.46	286	8.43	287
110	0	0	0	0.481	8.53	284	8.49	285
120	0	0	0	0.481	8.6	282	8.55	283
130	0	0	0	0.481	8.66	280	8.62	281
167	0	0	0	0.481	8.89	273	8.84	274
212	0	0	0	0.481	9.15	265	9.11	266

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.176

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.607	19.9	1500	19.9	1500*
20	0	0	0	0.481	19.04	289	19	289
30	0	0	0	0.481	19.11	288	19.07	288
40	0	0	0	0.481	19.18	287	19.15	287
50	0	0	0	0.481	19.25	286	19.22	286
60	0	0	0	0.481	19.32	285	19.29	285
70	0	0	0	0.481	19.39	284	19.36	284
80	0	0	0	0.481	19.46	283	19.43	283
90	0	0	0	0.481	19.53	282	19.5	282
100	0	0	0	0.481	19.6	281	19.57	281
110	0	0	0	0.481	19.67	280	19.63	280
120	0	0	0	0.481	19.74	279	19.69	280
130	0	0	0	0.481	19.8	278	19.75	279
167	0	0	0	0.481	20.03	275	19.98	276
212	0	0	0	0.481	20.3	271	20.26	272

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.607	35.88	1500	35.88	1500*
20	0	0	0	0.481	35.03	283	34.99	283
30	0	0	0	0.481	35.1	283	35.06	283
40	0	0	0	0.481	35.17	282	35.13	282
50	0	0	0	0.481	35.24	281	35.2	282
60	0	0	0	0.481	35.31	281	35.27	281
70	0	0	0	0.481	35.38	280	35.34	281
80	0	0	0	0.481	35.45	280	35.41	280
90	0	0	0	0.481	35.51	279	35.48	280
100	0	0	0	0.481	35.58	279	35.55	279
110	0	0	0	0.481	35.65	278	35.61	279
120	0	0	0	0.481	35.72	278	35.68	278
130	0	0	0	0.481	35.78	277	35.74	278
167	0	0	0	0.481	36.01	276	35.97	276
212	0	0	0	0.481	36.29	274	36.24	274

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.177

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.607	57.16	1500	57.16	1500*
20	0	0	0	0.481	56.32	280	56.28	281
30	0	0	0	0.481	56.39	280	56.35	280
40	0	0	0	0.481	56.46	280	56.42	280
50	0	0	0	0.481	56.52	280	56.49	280
60	0	0	0	0.481	56.59	279	56.56	279
70	0	0	0	0.481	56.66	279	56.63	279
80	0	0	0	0.481	56.73	279	56.7	279
90	0	0	0	0.481	56.8	278	56.77	279
100	0	0	0	0.481	56.86	278	56.83	278
110	0	0	0	0.481	56.93	278	56.89	278
120	0	0	0	0.481	57	277	56.96	278
130	0	0	0	0.481	57.06	277	57.02	277
167	0	0	0	0.481	57.29	276	57.25	276
212	0	0	0	0.481	57.57	275	57.52	275

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.178

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1
100	1-2	1-3	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-11
125	1-11	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-11	3-0
150	2-8	2-11	3-1	3-3	3-6	3-8	3-10	4-0	4-2	4-4
175	3-8	3-11	4-3	4-6	4-9	5-0	5-3	5-5	5-8	5-11
200	4-10	5-2	5-6	5-10	6-2	6-6	6-10	7-2	7-5	7-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1
100	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-11
125	1-11	2-1	2-3	2-4	2-6	2-7	2-9	2-10	2-11	3-1
150	2-10	3-0	3-2	3-5	3-7	3-9	3-11	4-1	4-3	4-5
175	3-10	4-1	4-4	4-7	4-10	5-1	5-4	5-7	5-9	6-0
200	5-0	5-4	5-8	6-0	6-4	6-8	6-11	7-3	7-7	7-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	2-0	2-0	2-0	2-0	2-0	2-1	2-1	2-1	2-1	2-1
125	3-1	3-1	3-1	3-2	3-2	3-2	3-3	3-3	3-3	3-4
150	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9	4-9
175	6-0	6-1	6-1	6-2	6-3	6-3	6-4	6-5	6-5	6-6
200	7-10	7-11	8-0	8-1	8-2	8-3	8-3	8-4	8-5	8-6
225	9-11	10-0	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-9
250	12-3	12-5	12-6	12-7	12-9	12-10	13-0	13-1	13-2	13-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	2-0	2-0	2-0	2-0	2-0	2-1	2-1	2-1	2-1	2-2
125	3-1	3-1	3-2	3-2	3-2	3-3	3-3	3-3	3-4	3-4
150	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9	4-9	4-10
175	6-0	6-1	6-2	6-2	6-3	6-4	6-4	6-5	6-6	6-6
200	7-11	8-0	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-6
225	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-8	10-9	10-10
250	12-4	12-5	12-7	12-8	12-10	12-11	13-0	13-2	13-3	13-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.180

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	4-9	4-9	4-9	4-9	4-10	4-10	4-10	4-10	4-10	4-11
175	6-5	6-6	6-6	6-6	6-6	6-7	6-7	6-7	6-8	6-8
200	8-5	8-5	8-6	8-6	8-7	8-7	8-7	8-8	8-8	8-8
225	10-8	10-8	10-9	10-9	10-10	10-10	10-11	10-11	11-0	11-0
250	13-2	13-3	13-3	13-4	13-4	13-5	13-6	13-6	13-7	13-7
275	15-11	16-0	16-1	16-2	16-2	16-3	16-4	16-4	16-5	16-6
300	19-0	19-1	19-2	19-3	19-3	19-4	19-5	19-6	19-7	19-8
325	22-4	22-5	22-6	22-7	22-8	22-9	22-10	22-11	23-0	23-1
350	25-11	26-0	26-1	26-2	26-4	26-5	26-6	26-7	26-8	26-9
375	29-9	29-11	30-0	30-1	30-3	30-4	30-5	30-7	30-8	30-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	4-9	4-9	4-9	4-10	4-10	4-10	4-10	4-10	4-11	4-11
175	6-5	6-6	6-6	6-6	6-7	6-7	6-7	6-7	6-8	6-8
200	8-5	8-6	8-6	8-6	8-7	8-7	8-7	8-8	8-8	8-9
225	10-8	10-9	10-9	10-10	10-10	10-11	10-11	11-0	11-0	11-0
250	13-2	13-3	13-4	13-4	13-5	13-5	13-6	13-6	13-7	13-8
275	16-0	16-1	16-1	16-2	16-3	16-3	16-4	16-5	16-5	16-6
300	19-1	19-1	19-2	19-3	19-4	19-5	19-6	19-6	19-7	19-8
325	22-4	22-5	22-6	22-7	22-8	22-9	22-10	22-11	23-0	23-1
350	26-0	26-1	26-2	26-3	26-4	26-5	26-7	26-8	26-9	26-10
375	29-10	29-11	30-1	30-2	30-3	30-5	30-6	30-7	30-9	30-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.181

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	8-8	8-8	8-9	8-9	8-9	8-9	8-9	8-10	8-10	8-10
225	11-0	11-0	11-0	11-1	11-1	11-1	11-2	11-2	11-2	11-2
250	13-7	13-7	13-8	13-8	13-8	13-9	13-9	13-9	13-10	13-10
275	16-5	16-6	16-6	16-7	16-7	16-7	16-8	16-8	16-9	16-9
300	19-7	19-8	19-8	19-9	19-9	19-10	19-10	19-10	19-11	19-11
325	23-0	23-1	23-1	23-2	23-2	23-3	23-4	23-4	23-5	23-5
350	26-9	26-9	26-10	26-11	26-11	27-0	27-1	27-1	27-2	27-2
375	30-9	30-9	30-10	30-11	31-0	31-0	31-1	31-2	31-2	31-3
400	35-0	35-1	35-2	35-2	35-3	35-4	35-5	35-6	35-7	35-7
425	39-7	39-8	39-9	39-10	39-10	39-11	40-0	40-1	40-2	40-3
450	44-5	44-6	44-7	44-8	44-9	44-10	44-11	45-0	45-1	45-2
475	49-7	49-8	49-9	49-10	49-11	50-1	50-2	50-3	50-4	50-5
500	55-0	55-1	55-2	55-4	55-5	55-7	55-8	55-9	55-10	56-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	8-8	8-9	8-9	8-9	8-9	8-9	8-10	8-10	8-10	8-10
225	11-0	11-0	11-1	11-1	11-1	11-1	11-2	11-2	11-2	11-2
250	13-7	13-8	13-8	13-8	13-8	13-9	13-9	13-9	13-10	13-10
275	16-6	16-6	16-6	16-7	16-7	16-8	16-8	16-8	16-9	16-9
300	19-7	19-8	19-8	19-9	19-9	19-10	19-10	19-11	19-11	20-0
325	23-1	23-1	23-2	23-2	23-3	23-3	23-4	23-4	23-5	23-5
350	26-9	26-10	26-10	26-11	27-0	27-0	27-1	27-2	27-2	27-3
375	30-9	30-10	30-11	30-11	31-0	31-1	31-1	31-2	31-3	31-4
400	35-0	35-1	35-2	35-3	35-4	35-5	35-5	35-6	35-7	35-8
425	39-7	39-8	39-9	39-10	39-11	40-0	40-1	40-2	40-3	40-4
450	44-6	44-7	44-8	44-9	44-10	44-11	45-0	45-1	45-2	45-3
475	49-7	49-8	49-10	49-11	50-0	50-1	50-2	50-4	50-5	50-6
500	55-1	55-2	55-3	55-5	55-6	55-7	55-8	55-10	55-11	56-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	13-11	13-11	13-11	13-11	14-0	14-0	14-0	14-0	14-0	14-1
275	16-10	16-10	16-10	16-11	16-11	16-11	16-11	17-0	17-0	17-0
300	20-1	20-1	20-1	20-1	20-2	20-2	20-2	20-3	20-3	20-3
325	23-7	23-7	23-7	23-8	23-8	23-8	23-9	23-9	23-9	23-10
350	27-4	27-5	27-5	27-5	27-6	27-6	27-7	27-7	27-7	27-8
375	31-5	31-6	31-6	31-7	31-7	31-7	31-8	31-8	31-9	31-9
400	35-10	35-10	35-11	35-11	36-0	36-0	36-1	36-1	36-2	36-2
425	40-6	40-6	40-7	40-8	40-8	40-9	40-9	40-10	40-10	40-11
450	45-5	45-6	45-7	45-7	45-8	45-9	45-9	45-10	45-11	45-11
475	50-9	50-9	50-10	50-11	51-0	51-0	51-1	51-2	51-2	51-3
500	56-3	56-4	56-5	56-6	56-7	56-8	56-8	56-9	56-10	56-11
525	62-2	62-3	62-4	62-5	62-6	62-6	62-7	62-8	62-9	62-10
550	68-4	68-5	68-6	68-7	68-8	68-9	68-10	68-11	69-0	69-1
575	74-10	74-11	75-0	75-1	75-2	75-3	75-5	75-6	75-7	75-8
600	81-7	81-9	81-10	81-11	82-0	82-2	82-3	82-4	82-5	82-6
625	88-9	88-10	89-0	89-1	89-2	89-4	89-5	89-6	89-8	89-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	13-11	13-11	13-11	13-11	14-0	14-0	14-0	14-0	14-0	14-1
275	16-10	16-10	16-11	16-11	16-11	16-11	17-0	17-0	17-0	17-0
300	20-1	20-1	20-1	20-2	20-2	20-2	20-2	20-3	20-3	20-3
325	23-7	23-7	23-8	23-8	23-8	23-9	23-9	23-9	23-10	23-10
350	27-4	27-5	27-5	27-6	27-6	27-6	27-7	27-7	27-8	27-8
375	31-5	31-6	31-6	31-7	31-7	31-8	31-8	31-9	31-9	31-9
400	35-10	35-11	35-11	36-0	36-0	36-1	36-1	36-2	36-2	36-3
425	40-6	40-7	40-7	40-8	40-8	40-9	40-10	40-10	40-11	40-11
450	45-6	45-6	45-7	45-8	45-8	45-9	45-10	45-10	45-11	46-0
475	50-9	50-10	50-10	50-11	51-0	51-1	51-1	51-2	51-3	51-4
500	56-4	56-5	56-5	56-6	56-7	56-8	56-9	56-10	56-10	56-11
525	62-2	62-3	62-4	62-5	62-6	62-7	62-8	62-9	62-10	62-10
550	68-5	68-6	68-7	68-8	68-9	68-10	68-11	69-0	69-1	69-2
575	74-10	75-0	75-1	75-2	75-3	75-4	75-5	75-6	75-7	75-8
600	81-8	81-9	81-11	82-0	82-1	82-2	82-3	82-5	82-6	82-7
625	88-10	88-11	89-0	89-2	89-3	89-4	89-6	89-7	89-8	89-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.183

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.607	1.63	2000	1.63	2000*
20	0	0	0	0.481	0.46	1309	0.45	1344
30	0	0	0	0.481	0.5	1196	0.49	1236
40	0	0	0	0.481	0.55	1089	0.53	1131
50	0	0	0	0.481	0.61	987	0.58	1031
60	0	0	0	0.481	0.67	893	0.64	936
70	0	0	0	0.481	0.74	807	0.71	848
80	0	0	0	0.481	0.82	731	0.78	768
90	0	0	0	0.481	0.91	664	0.86	697
100	0	0	0	0.481	0.99	606	0.95	635
110	0	0	0	0.481	1.08	556	1.04	581
120	0	0	0	0.481	1.17	514	1.13	534
130	0	0	0	0.481	1.26	478	1.21	497
167	0	0	0	0.481	1.54	390	1.49	405
212	0	0	0	0.481	1.85	325	1.8	335

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.607	6.54	2000	6.54	2000*
20	0	0	0	0.481	5.05	478	4.97	485
30	0	0	0	0.481	5.15	468	5.08	475
40	0	0	0	0.481	5.26	458	5.19	465
50	0	0	0	0.481	5.36	450	5.29	456
60	0	0	0	0.481	5.47	441	5.4	447
70	0	0	0	0.481	5.57	433	5.5	438
80	0	0	0	0.481	5.67	426	5.6	431
90	0	0	0	0.481	5.77	419	5.7	423
100	0	0	0	0.481	5.86	412	5.8	416
110	0	0	0	0.481	5.96	405	5.9	409
120	0	0	0	0.481	6.05	399	5.99	403
130	0	0	0	0.481	6.14	393	6.08	397
167	0	0	0	0.481	6.45	375	6.38	378
212	0	0	0	0.481	6.8	355	6.74	359

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.184

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Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.607	14.81	2000	14.81	2000*
20	0	0	0	0.481	13.36	408	13.29	410
30	0	0	0	0.481	13.46	405	13.39	407
40	0	0	0	0.481	13.56	402	13.49	405
50	0	0	0	0.481	13.65	400	13.58	402
60	0	0	0	0.481	13.75	397	13.68	399
70	0	0	0	0.481	13.84	394	13.78	396
80	0	0	0	0.481	13.94	392	13.88	393
90	0	0	0	0.481	14.03	389	13.97	391
100	0	0	0	0.481	14.13	386	14.07	388
110	0	0	0	0.481	14.22	384	14.16	385
120	0	0	0	0.481	14.31	382	14.25	383
130	0	0	0	0.481	14.4	379	14.33	381
167	0	0	0	0.481	14.71	371	14.64	373
212	0	0	0	0.481	15.07	363	15	364

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.607	26.53	2000	26.53	2000*
20	0	0	0	0.481	25.1	389	25.03	390
30	0	0	0	0.481	25.2	388	25.13	389
40	0	0	0	0.481	25.29	386	25.22	388
50	0	0	0	0.481	25.38	385	25.32	386
60	0	0	0	0.481	25.48	384	25.41	385
70	0	0	0	0.481	25.57	382	25.51	383
80	0	0	0	0.481	25.66	381	25.6	382
90	0	0	0	0.481	25.76	380	25.7	381
100	0	0	0	0.481	25.85	378	25.79	379
110	0	0	0	0.481	25.94	377	25.89	378
120	0	0	0	0.481	26.03	376	25.97	377
130	0	0	0	0.481	26.12	375	26.05	376
167	0	0	0	0.481	26.43	370	26.36	371
212	0	0	0	0.481	26.79	365	26.73	366

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.185

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.607	41.88	2000	41.88	2000*
20	0	0	0	0.481	40.46	381	40.39	382
30	0	0	0	0.481	40.56	380	40.48	381
40	0	0	0	0.481	40.65	380	40.58	380
50	0	0	0	0.481	40.74	379	40.67	379
60	0	0	0	0.481	40.83	378	40.77	379
70	0	0	0	0.481	40.92	377	40.86	378
80	0	0	0	0.481	41.02	376	40.96	377
90	0	0	0	0.481	41.11	376	41.05	376
100	0	0	0	0.481	41.2	375	41.14	375
110	0	0	0	0.481	41.29	374	41.23	374
120	0	0	0	0.481	41.38	373	41.32	374
130	0	0	0	0.481	41.47	372	41.4	373
167	0	0	0	0.481	41.78	370	41.71	370
212	0	0	0	0.481	42.15	367	42.08	367

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.186

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
100	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11	1-0
125	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-7
150	1-0	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-2	2-4
175	1-4	1-6	1-8	1-9	2-0	2-2	2-5	2-8	2-11	3-2
200	1-9	1-11	2-2	2-4	2-7	2-10	3-2	3-5	3-10	4-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
100	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1
125	0-9	0-9	0-10	0-11	1-1	1-2	1-3	1-5	1-7	1-8
150	1-0	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-3	2-5
175	1-5	1-6	1-8	1-10	2-1	2-3	2-6	2-9	3-0	3-4
200	1-10	2-0	2-3	2-5	2-8	3-0	3-4	3-8	4-0	4-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.187

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-3	1-3	1-4	1-4	1-4	1-4	1-5	1-5	1-5	1-6
125	1-11	2-0	2-0	2-1	2-1	2-2	2-2	2-3	2-3	2-4
150	2-10	2-10	2-11	3-0	3-0	3-1	3-2	3-2	3-3	3-4
175	3-10	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-6
200	5-0	5-1	5-2	5-4	5-5	5-6	5-7	5-8	5-10	5-11
225	6-3	6-5	6-7	6-8	6-10	7-0	7-1	7-3	7-4	7-6
250	7-9	7-11	8-1	8-3	8-5	8-7	8-9	8-11	9-1	9-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-3	1-3	1-4	1-4	1-4	1-5	1-5	1-5	1-6	1-6
125	2-0	2-0	2-1	2-1	2-2	2-2	2-3	2-3	2-3	2-4
150	2-10	2-11	2-11	3-0	3-1	3-2	3-2	3-3	3-4	3-4
175	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7
200	5-1	5-2	5-3	5-4	5-6	5-7	5-8	5-9	5-10	5-11
225	6-5	6-6	6-8	6-9	6-11	7-1	7-2	7-4	7-5	7-6
250	7-11	8-1	8-3	8-5	8-7	8-8	8-10	9-0	9-2	9-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.188

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	3-4	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-6	3-6
175	4-6	4-7	4-7	4-7	4-8	4-8	4-9	4-9	4-9	4-10
200	5-11	5-11	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3
225	7-6	7-6	7-7	7-8	7-8	7-9	7-10	7-10	7-11	7-11
250	9-3	9-3	9-4	9-5	9-6	9-7	9-8	9-8	9-9	9-10
275	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11
300	13-3	13-5	13-6	13-7	13-8	13-9	13-11	14-0	14-1	14-2
325	15-7	15-9	15-10	15-11	16-1	16-2	16-4	16-5	16-6	16-8
350	18-1	18-3	18-4	18-6	18-8	18-9	18-11	19-0	19-2	19-4
375	20-9	20-11	21-1	21-3	21-5	21-7	21-9	21-10	22-0	22-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	3-4	3-4	3-5	3-5	3-5	3-5	3-6	3-6	3-6	3-7
175	4-6	4-7	4-7	4-8	4-8	4-8	4-9	4-9	4-10	4-10
200	5-11	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4
225	7-6	7-7	7-7	7-8	7-9	7-9	7-10	7-11	7-11	8-0
250	9-3	9-4	9-5	9-6	9-6	9-7	9-8	9-9	9-10	9-10
275	11-3	11-4	11-5	11-6	11-7	11-8	11-8	11-9	11-10	11-11
300	13-4	13-6	13-7	13-8	13-9	13-10	13-11	14-0	14-2	14-3
325	15-8	15-10	15-11	16-0	16-2	16-3	16-4	16-6	16-7	16-8
350	18-2	18-4	18-6	18-7	18-9	18-10	19-0	19-1	19-3	19-4
375	20-11	21-1	21-3	21-4	21-6	21-8	21-10	22-0	22-1	22-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.189

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	6-3	6-3	6-3	6-4	6-4	6-4	6-4	6-5	6-5	6-5
225	7-11	7-11	7-11	8-0	8-0	8-0	8-1	8-1	8-2	8-2
250	9-9	9-9	9-10	9-10	9-11	9-11	10-0	10-0	10-0	10-1
275	11-10	11-10	11-11	11-11	12-0	12-0	12-1	12-1	12-2	12-2
300	14-1	14-1	14-2	14-2	14-3	14-4	14-4	14-5	14-6	14-6
325	16-6	16-7	16-7	16-8	16-9	16-10	16-10	16-11	17-0	17-1
350	19-2	19-3	19-3	19-4	19-5	19-6	19-7	19-8	19-9	19-10
375	22-0	22-1	22-2	22-3	22-4	22-5	22-6	22-7	22-8	22-9
400	25-0	25-2	25-3	25-4	25-5	25-6	25-7	25-8	25-10	25-11
425	28-3	28-5	28-6	28-7	28-8	28-10	28-11	29-0	29-2	29-3
450	31-9	31-10	32-0	32-1	32-2	32-4	32-5	32-7	32-8	32-10
475	35-4	35-6	35-8	35-9	35-11	36-1	36-2	36-4	36-5	36-7
500	39-3	39-4	39-6	39-8	39-10	40-0	40-2	40-3	40-5	40-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	6-3	6-3	6-4	6-4	6-4	6-4	6-5	6-5	6-5	6-5
225	7-11	7-11	8-0	8-0	8-0	8-1	8-1	8-1	8-2	8-2
250	9-9	9-10	9-10	9-11	9-11	9-11	10-0	10-0	10-1	10-1
275	11-10	11-11	11-11	12-0	12-0	12-1	12-1	12-2	12-2	12-3
300	14-1	14-2	14-2	14-3	14-4	14-4	14-5	14-5	14-6	14-7
325	16-7	16-7	16-8	16-9	16-9	16-10	16-11	17-0	17-0	17-1
350	19-2	19-3	19-4	19-5	19-6	19-7	19-7	19-8	19-9	19-10
375	22-1	22-2	22-3	22-4	22-5	22-6	22-6	22-7	22-8	22-9
400	25-1	25-2	25-3	25-5	25-6	25-7	25-8	25-9	25-10	25-11
425	28-4	28-6	28-7	28-8	28-9	28-11	29-0	29-1	29-2	29-4
450	31-10	31-11	32-1	32-2	32-3	32-5	32-6	32-8	32-9	32-11
475	35-6	35-7	35-9	35-10	36-0	36-2	36-3	36-5	36-6	36-8
500	39-4	39-6	39-8	39-9	39-11	40-1	40-3	40-4	40-6	40-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.190

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	10-0	10-1	10-1	10-1	10-2	10-2	10-2	10-2	10-3	10-3
275	12-2	12-2	12-2	12-3	12-3	12-3	12-4	12-4	12-4	12-5
300	14-6	14-6	14-6	14-7	14-7	14-8	14-8	14-8	14-9	14-9
325	17-0	17-0	17-1	17-1	17-2	17-2	17-3	17-3	17-4	17-4
350	19-8	19-9	19-10	19-10	19-11	19-11	20-0	20-0	20-1	20-1
375	22-8	22-8	22-9	22-10	22-10	22-11	22-11	23-0	23-1	23-1
400	25-9	25-10	25-11	25-11	26-0	26-1	26-2	26-2	26-3	26-4
425	29-1	29-2	29-3	29-4	29-5	29-5	29-6	29-7	29-8	29-9
450	32-8	32-9	32-10	32-11	33-0	33-1	33-1	33-2	33-3	33-4
475	36-5	36-6	36-7	36-8	36-9	36-10	36-11	37-0	37-1	37-2
500	40-5	40-6	40-7	40-8	40-9	40-10	40-11	41-1	41-2	41-3
525	44-7	44-8	44-9	44-11	45-0	45-1	45-2	45-4	45-5	45-6
550	49-0	49-1	49-2	49-4	49-5	49-6	49-8	49-9	49-11	50-0
575	53-7	53-8	53-10	53-11	54-1	54-2	54-4	54-5	54-7	54-8
600	58-5	58-6	58-8	58-10	58-11	59-1	59-2	59-4	59-6	59-7
625	63-5	63-7	63-9	63-10	64-0	64-2	64-4	64-5	64-7	64-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	10-1	10-1	10-1	10-1	10-2	10-2	10-2	10-3	10-3	10-3
275	12-2	12-2	12-3	12-3	12-3	12-4	12-4	12-4	12-5	12-5
300	14-6	14-6	14-7	14-7	14-7	14-8	14-8	14-9	14-9	14-9
325	17-0	17-1	17-1	17-2	17-2	17-2	17-3	17-3	17-4	17-4
350	19-9	19-9	19-10	19-10	19-11	20-0	20-0	20-1	20-1	20-2
375	22-8	22-9	22-9	22-10	22-11	22-11	23-0	23-0	23-1	23-2
400	25-10	25-10	25-11	26-0	26-1	26-1	26-2	26-3	26-3	26-4
425	29-2	29-3	29-4	29-4	29-5	29-6	29-7	29-8	29-8	29-9
450	32-9	32-10	32-10	32-11	33-0	33-1	33-2	33-3	33-4	33-5
475	36-6	36-7	36-8	36-9	36-10	36-11	37-0	37-1	37-2	37-3
500	40-6	40-7	40-8	40-9	40-10	40-11	41-0	41-1	41-2	41-3
525	44-8	44-9	44-10	44-11	45-1	45-2	45-3	45-4	45-6	45-7
550	49-1	49-2	49-3	49-5	49-6	49-7	49-9	49-10	49-11	50-1
575	53-8	53-9	53-11	54-0	54-2	54-3	54-5	54-6	54-8	54-9
600	58-6	58-7	58-9	58-11	59-0	59-2	59-4	59-5	59-7	59-8
625	63-6	63-8	63-10	64-0	64-1	64-3	64-5	64-7	64-8	64-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.191

Span = 100 ft

Design Condition Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Final Sag ft	Final Tension lb	Initial Sag ft	Initial Tension lb
20	0	31.5	0	2.607	3.27	1000	3.27	1000*
0	0	0	0	0.481	2.88	209	2.86	211
30	0	0	0	0.481	3.03	199	3.01	200
40	0	0	0	0.481	3.08	196	3.06	197
50	0	0	0	0.481	3.13	193	3.11	194
60	0	0	0	0.481	3.17	190	3.16	191
70	0	0	0	0.481	3.22	188	3.2	188
80	0	0	0	0.481	3.26	185	3.25	186
90	0	0	0	0.481	3.31	183	3.29	183
100	0	0	0	0.481	3.35	180	3.33	181
110	0	0	0	0.481	3.39	178	3.37	179
120	0	0	0	0.481	3.43	176	3.41	177
130	0	0	0	0.481	3.47	174	3.45	175
167	0	0	0	0.481	3.61	167	3.59	168
212	0	0	0	0.481	3.77	160	3.75	161

* Design Condition

Span = 200 ft

Design Condition Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Final Sag ft	Final Tension lb	Initial Sag ft	Initial Tension lb
20	0	31.5	0	2.607	13.26	1000	13.26	1000*
0	0	0	0	0.481	12.89	190	12.87	190
30	0	0	0	0.481	13.03	188	13.01	188
40	0	0	0	0.481	13.07	187	13.05	187
50	0	0	0	0.481	13.12	187	13.1	187
60	0	0	0	0.481	13.16	186	13.15	186
70	0	0	0	0.481	13.21	185	13.19	185
80	0	0	0	0.481	13.25	185	13.24	185
90	0	0	0	0.481	13.3	184	13.28	184
100	0	0	0	0.481	13.34	183	13.32	184
110	0	0	0	0.481	13.39	183	13.36	183
120	0	0	0	0.481	13.43	182	13.41	183
130	0	0	0	0.481	13.47	182	13.45	182
167	0	0	0	0.481	13.62	180	13.6	180
212	0	0	0	0.481	13.8	178	13.77	178

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.192

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.607	30.55	1000	30.55	1000*
0	0	0	0	0.481	30.17	187	30.15	187
30	0	0	0	0.481	30.31	186	30.29	186
40	0	0	0	0.481	30.35	186	30.34	186
50	0	0	0	0.481	30.4	185	30.38	185
60	0	0	0	0.481	30.45	185	30.43	185
70	0	0	0	0.481	30.49	185	30.48	185
80	0	0	0	0.481	30.54	185	30.52	185
90	0	0	0	0.481	30.58	184	30.57	184
100	0	0	0	0.481	30.63	184	30.61	184
110	0	0	0	0.481	30.67	184	30.65	184
120	0	0	0	0.481	30.71	184	30.69	184
130	0	0	0	0.481	30.75	183	30.73	184
167	0	0	0	0.481	30.9	183	30.88	183
212	0	0	0	0.481	31.09	182	31.06	182

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.607	56.29	1000	56.29	1000*
0	0	0	0	0.481	55.92	186	55.9	186
30	0	0	0	0.481	56.06	185	56.04	185
40	0	0	0	0.481	56.1	185	56.08	185
50	0	0	0	0.481	56.15	185	56.13	185
60	0	0	0	0.481	56.19	185	56.18	185
70	0	0	0	0.481	56.24	185	56.22	185
80	0	0	0	0.481	56.28	185	56.27	185
90	0	0	0	0.481	56.33	184	56.31	184
100	0	0	0	0.481	56.37	184	56.35	184
110	0	0	0	0.481	56.41	184	56.39	184
120	0	0	0	0.481	56.46	184	56.43	184
130	0	0	0	0.481	56.5	184	56.47	184
167	0	0	0	0.481	56.65	184	56.63	184
212	0	0	0	0.481	56.83	183	56.81	183

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.193

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.607	92.8	1000	92.8	1000*
0	0	0	0	0.481	92.43	185	92.41	185
30	0	0	0	0.481	92.56	185	92.55	185
40	0	0	0	0.481	92.61	185	92.59	185
50	0	0	0	0.481	92.65	185	92.64	185
60	0	0	0	0.481	92.7	185	92.68	185
70	0	0	0	0.481	92.74	185	92.73	185
80	0	0	0	0.481	92.79	185	92.77	185
90	0	0	0	0.481	92.83	184	92.82	184
100	0	0	0	0.481	92.88	184	92.86	184
110	0	0	0	0.481	92.92	184	92.9	184
120	0	0	0	0.481	92.96	184	92.94	184
130	0	0	0	0.481	93	184	92.98	184
167	0	0	0	0.481	93.15	184	93.13	184
212	0	0	0	0.481	93.33	184	93.31	184

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-10	1-11
100	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-4	3-4
125	4-8	4-9	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-3
150	6-8	6-9	6-11	7-0	7-1	7-3	7-4	7-5	7-6	7-7
175	9-1	9-3	9-5	9-7	9-8	9-10	10-0	10-1	10-3	10-4
200	11-11	12-1	12-3	12-6	12-8	12-10	13-1	13-3	13-5	13-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11
100	3-0	3-0	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5
125	4-8	4-9	4-10	4-11	5-0	5-0	5-1	5-2	5-3	5-4
150	6-9	6-10	6-11	7-1	7-2	7-3	7-4	7-5	7-7	7-8
175	9-2	9-4	9-5	9-7	9-9	9-11	10-0	10-2	10-3	10-5
200	12-0	12-2	12-4	12-7	12-9	12-11	13-1	13-3	13-6	13-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	3-3	3-3	3-3	3-3	3-3	3-3	3-4	3-4	3-4	3-4
125	5-1	5-1	5-1	5-1	5-1	5-2	5-2	5-2	5-2	5-2
150	7-3	7-4	7-4	7-4	7-5	7-5	7-5	7-5	7-6	7-6
175	9-11	9-11	10-0	10-0	10-1	10-1	10-1	10-2	10-2	10-3
200	13-0	13-0	13-1	13-1	13-2	13-2	13-3	13-3	13-4	13-4
225	16-5	16-6	16-7	16-7	16-8	16-9	16-9	16-10	16-11	16-11
250	20-4	20-5	20-6	20-6	20-7	20-8	20-9	20-10	20-11	20-11

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	3-3	3-3	3-3	3-3	3-3	3-3	3-4	3-4	3-4	3-4
125	5-1	5-1	5-1	5-1	5-1	5-2	5-2	5-2	5-2	5-3
150	7-3	7-4	7-4	7-4	7-5	7-5	7-5	7-6	7-6	7-6
175	9-11	10-0	10-0	10-0	10-1	10-1	10-2	10-2	10-2	10-3
200	13-0	13-0	13-1	13-1	13-2	13-2	13-3	13-4	13-4	13-5
225	16-5	16-6	16-7	16-8	16-8	16-9	16-10	16-10	16-11	17-0
250	20-4	20-5	20-6	20-7	20-8	20-8	20-9	20-10	20-11	21-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	7-6	7-6	7-6	7-6	7-6	7-7	7-7	7-7	7-7	7-7
175	10-2	10-3	10-3	10-3	10-3	10-3	10-4	10-4	10-4	10-4
200	13-4	13-4	13-5	13-5	13-5	13-5	13-6	13-6	13-6	13-6
225	16-11	16-11	17-0	17-0	17-0	17-1	17-1	17-1	17-1	17-2
250	20-11	20-11	21-0	21-0	21-1	21-1	21-1	21-2	21-2	21-2
275	25-4	25-5	25-5	25-6	25-6	25-7	25-7	25-8	25-8	25-8
300	30-3	30-3	30-4	30-5	30-5	30-6	30-6	30-7	30-7	30-8
325	35-7	35-8	35-8	35-9	35-10	35-10	35-11	35-11	36-0	36-1
350	41-4	41-5	41-6	41-7	41-7	41-8	41-9	41-10	41-10	41-11
375	47-7	47-8	47-9	47-10	47-11	48-0	48-1	48-1	48-2	48-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	7-6	7-6	7-6	7-6	7-6	7-7	7-7	7-7	7-7	7-7
175	10-3	10-3	10-3	10-3	10-3	10-3	10-4	10-4	10-4	10-4
200	13-4	13-4	13-5	13-5	13-5	13-5	13-6	13-6	13-6	13-6
225	16-11	16-11	17-0	17-0	17-0	17-1	17-1	17-1	17-2	17-2
250	20-11	21-0	21-0	21-0	21-1	21-1	21-1	21-2	21-2	21-3
275	25-5	25-5	25-5	25-6	25-6	25-7	25-7	25-8	25-8	25-9
300	30-3	30-4	30-4	30-5	30-5	30-6	30-6	30-7	30-8	30-8
325	35-7	35-8	35-8	35-9	35-10	35-10	35-11	36-0	36-0	36-1
350	41-5	41-5	41-6	41-7	41-8	41-8	41-9	41-10	41-11	41-11
375	47-8	47-9	47-9	47-10	47-11	48-0	48-1	48-2	48-3	48-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.197

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	13-9	13-9	13-9	13-9	13-9	13-10	13-10	13-10	13-10	13-10
225	17-5	17-5	17-5	17-6	17-6	17-6	17-6	17-6	17-6	17-6
250	21-7	21-7	21-7	21-7	21-7	21-8	21-8	21-8	21-8	21-8
275	26-1	26-2	26-2	26-2	26-2	26-3	26-3	26-3	26-3	26-4
300	31-2	31-2	31-2	31-3	31-3	31-3	31-4	31-4	31-4	31-4
325	36-8	36-8	36-9	36-9	36-9	36-10	36-10	36-10	36-11	36-11
350	42-7	42-8	42-8	42-9	42-9	42-10	42-10	42-10	42-11	42-11
375	49-1	49-1	49-2	49-2	49-3	49-3	49-4	49-4	49-5	49-5
400	56-0	56-0	56-1	56-2	56-2	56-3	56-3	56-4	56-4	56-5
425	63-5	63-6	63-6	63-7	63-7	63-8	63-9	63-9	63-10	63-10
450	71-4	71-5	71-5	71-6	71-7	71-8	71-8	71-9	71-10	71-10
475	79-9	79-10	79-11	80-0	80-0	80-1	80-2	80-3	80-3	80-4
500	88-9	88-9	88-10	88-11	89-0	89-1	89-2	89-3	89-4	89-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	13-9	13-9	13-9	13-9	13-9	13-10	13-10	13-10	13-10	13-10
225	17-5	17-5	17-5	17-6	17-6	17-6	17-6	17-6	17-6	17-7
250	21-7	21-7	21-7	21-7	21-7	21-8	21-8	21-8	21-8	21-8
275	26-2	26-2	26-2	26-2	26-3	26-3	26-3	26-3	26-4	26-4
300	31-2	31-2	31-3	31-3	31-3	31-3	31-4	31-4	31-4	31-5
325	36-8	36-8	36-9	36-9	36-9	36-10	36-10	36-10	36-11	36-11
350	42-8	42-8	42-8	42-9	42-9	42-10	42-10	42-10	42-11	42-11
375	49-1	49-1	49-2	49-2	49-3	49-3	49-4	49-4	49-5	49-5
400	56-0	56-1	56-1	56-2	56-2	56-3	56-3	56-4	56-4	56-5
425	63-5	63-6	63-6	63-7	63-8	63-8	63-9	63-9	63-10	63-11
450	71-4	71-5	71-6	71-6	71-7	71-8	71-8	71-9	71-10	71-11
475	79-9	79-10	79-11	80-0	80-1	80-1	80-2	80-3	80-4	80-4
500	88-9	88-10	88-11	89-0	89-0	89-1	89-2	89-3	89-4	89-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.198

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	22-5	22-5	22-5	22-5	22-5	22-6	22-6	22-6	22-6	22-6
275	27-2	27-2	27-2	27-3	27-3	27-3	27-3	27-3	27-3	27-3
300	32-5	32-5	32-5	32-6	32-6	32-6	32-6	32-6	32-6	32-7
325	38-2	38-2	38-2	38-2	38-3	38-3	38-3	38-3	38-3	38-4
350	44-4	44-5	44-5	44-5	44-5	44-6	44-6	44-6	44-6	44-7
375	51-1	51-1	51-2	51-2	51-2	51-3	51-3	51-3	51-3	51-4
400	58-4	58-4	58-4	58-5	58-5	58-5	58-6	58-6	58-6	58-7
425	66-1	66-1	66-2	66-2	66-2	66-3	66-3	66-3	66-4	66-4
450	74-4	74-4	74-5	74-5	74-6	74-6	74-7	74-7	74-7	74-8
475	83-2	83-2	83-3	83-3	83-4	83-4	83-5	83-5	83-6	83-6
500	92-6	92-7	92-7	92-8	92-8	92-9	92-9	92-10	92-10	92-11
525	102-5	102-6	102-6	102-7	102-7	102-8	102-9	102-9	102-10	102-10
550	112-11	113-0	113-0	113-1	113-2	113-2	113-3	113-4	113-4	113-5
575	124-0	124-1	124-1	124-2	124-3	124-4	124-4	124-5	124-6	124-6
600	135-8	135-9	135-10	135-10	135-11	136-0	136-1	136-2	136-2	136-3
625	147-11	148-0	148-1	148-2	148-3	148-4	148-5	148-6	148-7	148-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	22-5	22-5	22-5	22-5	22-5	22-6	22-6	22-6	22-6	22-6
275	27-2	27-2	27-3	27-3	27-3	27-3	27-3	27-3	27-3	27-4
300	32-5	32-5	32-6	32-6	32-6	32-6	32-6	32-6	32-7	32-7
325	38-2	38-2	38-2	38-3	38-3	38-3	38-3	38-3	38-4	38-4
350	44-5	44-5	44-5	44-5	44-6	44-6	44-6	44-6	44-7	44-7
375	51-1	51-1	51-2	51-2	51-2	51-3	51-3	51-3	51-3	51-4
400	58-4	58-4	58-5	58-5	58-5	58-6	58-6	58-6	58-7	58-7
425	66-1	66-1	66-2	66-2	66-2	66-3	66-3	66-4	66-4	66-4
450	74-4	74-5	74-5	74-5	74-6	74-6	74-7	74-7	74-8	74-8
475	83-2	83-2	83-3	83-3	83-4	83-4	83-5	83-5	83-6	83-6
500	92-6	92-7	92-7	92-8	92-8	92-9	92-9	92-10	92-11	92-11
525	102-5	102-6	102-6	102-7	102-8	102-8	102-9	102-9	102-10	102-11
550	112-11	113-0	113-0	113-1	113-2	113-2	113-3	113-4	113-4	113-5
575	124-0	124-1	124-2	124-2	124-3	124-4	124-5	124-5	124-6	124-7
600	135-8	135-9	135-10	135-11	135-11	136-0	136-1	136-2	136-3	136-4
625	148-0	148-1	148-2	148-2	148-3	148-4	148-5	148-6	148-7	148-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.199

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.607	2.18	1500	2.18	1500*
0	0	0	0	0.481	1.33	452	1.29	468
30	0	0	0	0.481	1.58	381	1.54	391
40	0	0	0	0.481	1.66	363	1.62	372
50	0	0	0	0.481	1.74	347	1.7	355
60	0	0	0	0.481	1.81	332	1.77	339
70	0	0	0	0.481	1.88	320	1.85	326
80	0	0	0	0.481	1.95	308	1.92	313
90	0	0	0	0.481	2.02	298	1.99	302
100	0	0	0	0.481	2.09	288	2.06	293
110	0	0	0	0.481	2.15	280	2.12	284
120	0	0	0	0.481	2.22	272	2.18	277
130	0	0	0	0.481	2.27	265	2.23	270
167	0	0	0	0.481	2.47	244	2.43	248
212	0	0	0	0.481	2.7	224	2.66	227

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.607	8.76	1500	8.76	1500*
0	0	0	0	0.481	7.96	304	7.92	306
30	0	0	0	0.481	8.18	296	8.14	298
40	0	0	0	0.481	8.25	293	8.21	295
50	0	0	0	0.481	8.32	291	8.28	292
60	0	0	0	0.481	8.39	289	8.35	290
70	0	0	0	0.481	8.46	286	8.43	287
80	0	0	0	0.481	8.53	284	8.5	285
90	0	0	0	0.481	8.6	282	8.57	283
100	0	0	0	0.481	8.66	280	8.63	281
110	0	0	0	0.481	8.73	278	8.69	279
120	0	0	0	0.481	8.8	275	8.76	277
130	0	0	0	0.481	8.86	274	8.82	275
167	0	0	0	0.481	9.08	267	9.04	268
212	0	0	0	0.481	9.34	260	9.3	261

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.607	19.9	1500	19.9	1500*
0	0	0	0	0.481	19.11	288	19.07	288
30	0	0	0	0.481	19.32	285	19.28	285
40	0	0	0	0.481	19.39	284	19.35	284
50	0	0	0	0.481	19.46	283	19.42	283
60	0	0	0	0.481	19.53	282	19.49	282
70	0	0	0	0.481	19.6	281	19.56	281
80	0	0	0	0.481	19.67	280	19.63	280
90	0	0	0	0.481	19.74	279	19.7	279
100	0	0	0	0.481	19.8	278	19.77	278
110	0	0	0	0.481	19.87	277	19.83	278
120	0	0	0	0.481	19.94	276	19.89	277
130	0	0	0	0.481	20	275	19.96	276
167	0	0	0	0.481	20.22	272	20.18	273
212	0	0	0	0.481	20.5	269	20.45	269

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.607	35.88	1500	35.88	1500*
0	0	0	0	0.481	35.1	283	35.06	283
30	0	0	0	0.481	35.31	281	35.27	281
40	0	0	0	0.481	35.38	280	35.34	281
50	0	0	0	0.481	35.45	280	35.41	280
60	0	0	0	0.481	35.51	279	35.48	280
70	0	0	0	0.481	35.58	279	35.55	279
80	0	0	0	0.481	35.65	278	35.62	279
90	0	0	0	0.481	35.72	278	35.69	278
100	0	0	0	0.481	35.79	277	35.75	278
110	0	0	0	0.481	35.85	277	35.82	277
120	0	0	0	0.481	35.92	276	35.88	277
130	0	0	0	0.481	35.98	276	35.94	276
167	0	0	0	0.481	36.21	274	36.17	275
212	0	0	0	0.481	36.48	272	36.44	273

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.201

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.607	57.16	1500	57.16	1500*
0	0	0	0	0.481	56.39	280	56.34	280
30	0	0	0	0.481	56.59	279	56.55	279
40	0	0	0	0.481	56.66	279	56.62	279
50	0	0	0	0.481	56.73	279	56.69	279
60	0	0	0	0.481	56.8	278	56.76	279
70	0	0	0	0.481	56.86	278	56.83	278
80	0	0	0	0.481	56.93	278	56.9	278
90	0	0	0	0.481	57	277	56.97	278
100	0	0	0	0.481	57.07	277	57.03	277
110	0	0	0	0.481	57.13	277	57.1	277
120	0	0	0	0.481	57.2	277	57.16	277
130	0	0	0	0.481	57.26	276	57.22	277
167	0	0	0	0.481	57.49	275	57.45	276
212	0	0	0	0.481	57.77	274	57.72	274

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2
100	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-1
125	2-3	2-5	2-6	2-8	2-9	2-11	3-0	3-1	3-3	3-4
150	3-3	3-6	3-8	3-10	4-0	4-2	4-4	4-6	4-8	4-9
175	4-6	4-9	5-0	5-2	5-5	5-8	5-11	6-1	6-4	6-6
200	5-10	6-2	6-6	6-10	7-1	7-5	7-8	8-0	8-3	8-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
100	1-6	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-1	2-2
125	2-4	2-6	2-7	2-9	2-10	2-11	3-1	3-2	3-3	3-4
150	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-7	4-8	4-10
175	4-7	4-10	5-1	5-4	5-7	5-9	6-0	6-2	6-5	6-7
200	6-0	6-4	6-8	6-11	7-3	7-7	7-10	8-1	8-4	8-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.203

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	2-0	2-0	2-1	2-1	2-1	2-1	2-1	2-2	2-2	2-2
125	3-2	3-2	3-2	3-3	3-3	3-3	3-4	3-4	3-4	3-5
150	4-6	4-7	4-7	4-8	4-8	4-9	4-9	4-10	4-10	4-11
175	6-2	6-3	6-3	6-4	6-5	6-5	6-6	6-7	6-7	6-8
200	8-1	8-2	8-3	8-3	8-4	8-5	8-6	8-7	8-8	8-8
225	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0
250	12-7	12-9	12-10	12-11	13-1	13-2	13-4	13-5	13-6	13-7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	2-0	2-0	2-1	2-1	2-1	2-1	2-2	2-2	2-2	2-2
125	3-2	3-2	3-3	3-3	3-3	3-4	3-4	3-4	3-5	3-5
150	4-7	4-7	4-8	4-8	4-9	4-9	4-10	4-10	4-10	4-11
175	6-2	6-3	6-4	6-4	6-5	6-6	6-6	6-7	6-8	6-8
200	8-1	8-2	8-3	8-4	8-5	8-6	8-6	8-7	8-8	8-9
225	10-3	10-4	10-5	10-6	10-8	10-9	10-10	10-11	11-0	11-1
250	12-8	12-10	12-11	13-0	13-2	13-3	13-4	13-5	13-7	13-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.204

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	4-9	4-10	4-10	4-10	4-10	4-10	4-11	4-11	4-11	4-11
175	6-6	6-6	6-7	6-7	6-7	6-8	6-8	6-8	6-8	6-9
200	8-6	8-7	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-9
225	10-9	10-10	10-10	10-11	10-11	11-0	11-0	11-1	11-1	11-2
250	13-4	13-4	13-5	13-6	13-6	13-7	13-7	13-8	13-8	13-9
275	16-2	16-2	16-3	16-4	16-4	16-5	16-6	16-7	16-7	16-8
300	19-3	19-3	19-4	19-5	19-6	19-7	19-8	19-8	19-9	19-10
325	22-7	22-8	22-9	22-10	22-11	23-0	23-1	23-2	23-3	23-4
350	26-2	26-4	26-5	26-6	26-7	26-8	26-9	26-11	27-0	27-1
375	30-1	30-3	30-4	30-5	30-7	30-8	30-9	30-11	31-0	31-1

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	4-10	4-10	4-10	4-10	4-10	4-11	4-11	4-11	4-11	4-11
175	6-6	6-7	6-7	6-7	6-7	6-8	6-8	6-8	6-9	6-9
200	8-6	8-7	8-7	8-7	8-8	8-8	8-9	8-9	8-9	8-10
225	10-10	10-10	10-11	10-11	11-0	11-0	11-0	11-1	11-1	11-2
250	13-4	13-5	13-5	13-6	13-6	13-7	13-8	13-8	13-9	13-9
275	16-2	16-3	16-3	16-4	16-5	16-5	16-6	16-7	16-8	16-8
300	19-3	19-4	19-5	19-6	19-6	19-7	19-8	19-9	19-10	19-10
325	22-7	22-8	22-9	22-10	22-11	23-0	23-1	23-2	23-3	23-4
350	26-3	26-4	26-5	26-7	26-8	26-9	26-10	26-11	27-0	27-1
375	30-2	30-3	30-5	30-6	30-7	30-9	30-10	30-11	31-1	31-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.205

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	8-9	8-9	8-9	8-9	8-10	8-10	8-10	8-10	8-10	8-11
225	11-1	11-1	11-1	11-2	11-2	11-2	11-2	11-3	11-3	11-3
250	13-8	13-8	13-9	13-9	13-9	13-10	13-10	13-10	13-11	13-11
275	16-7	16-7	16-7	16-8	16-8	16-9	16-9	16-9	16-10	16-10
300	19-9	19-9	19-9	19-10	19-10	19-11	19-11	20-0	20-0	20-1
325	23-2	23-2	23-3	23-4	23-4	23-5	23-5	23-6	23-6	23-7
350	26-11	26-11	27-0	27-1	27-1	27-2	27-2	27-3	27-4	27-4
375	30-11	31-0	31-0	31-1	31-2	31-2	31-3	31-4	31-5	31-5
400	35-2	35-3	35-4	35-5	35-6	35-7	35-7	35-8	35-9	35-10
425	39-9	39-10	39-11	40-0	40-1	40-2	40-3	40-4	40-5	40-6
450	44-8	44-9	44-10	44-11	45-0	45-1	45-2	45-4	45-5	45-5
475	49-10	49-11	50-1	50-2	50-3	50-4	50-5	50-6	50-8	50-9
500	55-4	55-5	55-6	55-8	55-9	55-10	56-0	56-1	56-2	56-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	8-9	8-9	8-9	8-10	8-10	8-10	8-10	8-10	8-11	8-11
225	11-1	11-1	11-1	11-2	11-2	11-2	11-2	11-3	11-3	11-3
250	13-8	13-8	13-9	13-9	13-9	13-10	13-10	13-10	13-11	13-11
275	16-7	16-7	16-8	16-8	16-8	16-9	16-9	16-9	16-10	16-10
300	19-9	19-9	19-10	19-10	19-11	19-11	20-0	20-0	20-0	20-1
325	23-2	23-3	23-3	23-4	23-4	23-5	23-5	23-6	23-6	23-7
350	26-11	27-0	27-0	27-1	27-2	27-2	27-3	27-3	27-4	27-5
375	30-11	31-0	31-1	31-1	31-2	31-3	31-4	31-4	31-5	31-6
400	35-3	35-4	35-5	35-5	35-6	35-7	35-8	35-9	35-9	35-10
425	39-10	39-11	40-0	40-1	40-2	40-3	40-4	40-5	40-5	40-6
450	44-9	44-10	44-11	45-0	45-1	45-2	45-3	45-4	45-5	45-6
475	49-11	50-0	50-1	50-2	50-4	50-5	50-6	50-7	50-8	50-9
500	55-5	55-6	55-7	55-8	55-10	55-11	56-0	56-2	56-3	56-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.206

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	13-11	14-0	14-0	14-0	14-0	14-0	14-1	14-1	14-1	14-1
275	16-11	16-11	16-11	16-11	17-0	17-0	17-0	17-0	17-1	17-1
300	20-1	20-2	20-2	20-2	20-3	20-3	20-3	20-3	20-4	20-4
325	23-8	23-8	23-8	23-9	23-9	23-9	23-10	23-10	23-10	23-11
350	27-5	27-6	27-6	27-7	27-7	27-7	27-8	27-8	27-9	27-9
375	31-7	31-7	31-7	31-8	31-8	31-9	31-9	31-10	31-10	31-11
400	35-11	36-0	36-0	36-1	36-1	36-2	36-2	36-3	36-3	36-4
425	40-7	40-8	40-9	40-9	40-10	40-10	40-11	41-0	41-0	41-1
450	45-7	45-8	45-9	45-9	45-10	45-11	45-11	46-0	46-1	46-1
475	50-11	50-11	51-0	51-1	51-2	51-2	51-3	51-4	51-5	51-5
500	56-6	56-7	56-7	56-8	56-9	56-10	56-11	57-0	57-0	57-1
525	62-5	62-5	62-6	62-7	62-8	62-9	62-10	62-11	63-0	63-1
550	68-7	68-8	68-9	68-10	68-11	69-0	69-1	69-2	69-3	69-4
575	75-1	75-2	75-3	75-4	75-6	75-7	75-8	75-9	75-10	75-11
600	81-11	82-0	82-2	82-3	82-4	82-5	82-6	82-8	82-9	82-10
625	89-1	89-2	89-4	89-5	89-6	89-8	89-9	89-10	89-11	90-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	13-11	14-0	14-0	14-0	14-0	14-0	14-1	14-1	14-1	14-1
275	16-11	16-11	16-11	17-0	17-0	17-0	17-0	17-1	17-1	17-1
300	20-2	20-2	20-2	20-2	20-3	20-3	20-3	20-4	20-4	20-4
325	23-8	23-8	23-9	23-9	23-9	23-10	23-10	23-10	23-11	23-11
350	27-6	27-6	27-6	27-7	27-7	27-8	27-8	27-8	27-9	27-9
375	31-7	31-7	31-8	31-8	31-9	31-9	31-9	31-10	31-10	31-11
400	36-0	36-0	36-1	36-1	36-2	36-2	36-3	36-3	36-4	36-4
425	40-8	40-8	40-9	40-10	40-10	40-11	40-11	41-0	41-0	41-1
450	45-8	45-8	45-9	45-10	45-10	45-11	46-0	46-0	46-1	46-2
475	50-11	51-0	51-1	51-1	51-2	51-3	51-4	51-4	51-5	51-6
500	56-6	56-7	56-8	56-9	56-10	56-10	56-11	57-0	57-1	57-2
525	62-5	62-6	62-7	62-8	62-9	62-10	62-10	62-11	63-0	63-1
550	68-8	68-9	68-10	68-11	69-0	69-1	69-2	69-3	69-4	69-5
575	75-2	75-3	75-4	75-5	75-6	75-7	75-8	75-9	75-11	76-0
600	82-0	82-1	82-2	82-3	82-5	82-6	82-7	82-8	82-9	82-11
625	89-2	89-3	89-4	89-6	89-7	89-8	89-10	89-11	90-0	90-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.207

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.607	1.63	2000	1.63	2000*
0	0	0	0	0.481	0.5	1196	0.49	1240
30	0	0	0	0.481	0.67	893	0.64	942
40	0	0	0	0.481	0.74	807	0.7	854
50	0	0	0	0.481	0.82	731	0.78	774
60	0	0	0	0.481	0.91	664	0.86	703
70	0	0	0	0.481	0.99	606	0.94	640
80	0	0	0	0.481	1.08	556	1.03	586
90	0	0	0	0.481	1.17	514	1.12	539
100	0	0	0	0.481	1.26	478	1.21	499
110	0	0	0	0.481	1.35	447	1.29	465
120	0	0	0	0.481	1.43	421	1.38	437
130	0	0	0	0.481	1.51	398	1.45	414
167	0	0	0	0.481	1.77	340	1.71	352
212	0	0	0	0.481	2.06	293	2	301

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	2.607	6.54	2000	6.54	2000*
0	0	0	0	0.481	5.15	468	5.07	476
30	0	0	0	0.481	5.47	441	5.39	448
40	0	0	0	0.481	5.57	433	5.49	439
50	0	0	0	0.481	5.67	426	5.59	431
60	0	0	0	0.481	5.77	419	5.69	424
70	0	0	0	0.481	5.86	412	5.79	417
80	0	0	0	0.481	5.96	405	5.89	410
90	0	0	0	0.481	6.05	399	5.99	403
100	0	0	0	0.481	6.14	393	6.08	397
110	0	0	0	0.481	6.24	387	6.18	391
120	0	0	0	0.481	6.33	382	6.26	386
130	0	0	0	0.481	6.41	377	6.34	381
167	0	0	0	0.481	6.7	360	6.64	364
212	0	0	0	0.481	7.05	343	6.98	346

* Design Condition

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SHEET 208 OF 215

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.208

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.607	14.81	2000	14.81	2000*
0	0	0	0	0.481	13.46	405	13.38	408
30	0	0	0	0.481	13.75	397	13.67	399
40	0	0	0	0.481	13.84	394	13.77	396
50	0	0	0	0.481	13.94	392	13.87	394
60	0	0	0	0.481	14.03	389	13.96	391
70	0	0	0	0.481	14.13	386	14.06	388
80	0	0	0	0.481	14.22	384	14.15	386
90	0	0	0	0.481	14.31	382	14.25	383
100	0	0	0	0.481	14.4	379	14.34	381
110	0	0	0	0.481	14.49	377	14.44	378
120	0	0	0	0.481	14.58	375	14.52	376
130	0	0	0	0.481	14.67	372	14.6	374
167	0	0	0	0.481	14.97	365	14.9	367
212	0	0	0	0.481	15.33	357	15.26	358

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.607	26.53	2000	26.53	2000*
0	0	0	0	0.481	25.2	388	25.12	389
30	0	0	0	0.481	25.48	384	25.4	385
40	0	0	0	0.481	25.57	382	25.5	383
50	0	0	0	0.481	25.66	381	25.59	382
60	0	0	0	0.481	25.76	380	25.69	381
70	0	0	0	0.481	25.85	378	25.78	379
80	0	0	0	0.481	25.94	377	25.88	378
90	0	0	0	0.481	26.03	376	25.97	377
100	0	0	0	0.481	26.12	375	26.06	375
110	0	0	0	0.481	26.21	373	26.15	374
120	0	0	0	0.481	26.3	372	26.24	373
130	0	0	0	0.481	26.39	371	26.32	372
167	0	0	0	0.481	26.69	367	26.62	368
212	0	0	0	0.481	27.06	362	26.99	363

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.209

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	32	0	2.607	41.88	2000	41.88	2000*
0	0	0	0	0.481	40.56	380	40.48	381
30	0	0	0	0.481	40.83	378	40.76	379
40	0	0	0	0.481	40.92	377	40.85	378
50	0	0	0	0.481	41.02	376	40.95	377
60	0	0	0	0.481	41.11	376	41.04	376
70	0	0	0	0.481	41.2	375	41.13	375
80	0	0	0	0.481	41.29	374	41.23	375
90	0	0	0	0.481	41.38	373	41.32	374
100	0	0	0	0.481	41.47	372	41.41	373
110	0	0	0	0.481	41.56	372	41.5	372
120	0	0	0	0.481	41.65	371	41.59	371
130	0	0	0	0.481	41.74	370	41.67	371
167	0	0	0	0.481	42.04	368	41.97	368
212	0	0	0	0.481	42.41	365	42.34	365

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9
100	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4
125	0-11	1-0	1-1	1-3	1-4	1-6	1-7	1-9	1-11	2-0
150	1-4	1-5	1-7	1-9	1-11	2-1	2-4	2-6	2-9	2-11
175	1-9	1-11	2-2	2-5	2-7	2-11	3-2	3-5	3-8	4-0
200	2-4	2-7	2-10	3-1	3-5	3-9	4-1	4-6	4-10	5-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9
100	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
125	0-11	1-1	1-2	1-3	1-5	1-7	1-8	1-10	2-0	2-1
150	1-4	1-6	1-8	1-10	2-0	2-3	2-5	2-8	2-10	3-0
175	1-10	2-1	2-3	2-6	2-9	3-0	3-4	3-7	3-10	4-1
200	2-5	2-8	3-0	3-4	3-8	4-0	4-4	4-8	5-0	5-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.211

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-4	1-4	1-4	1-5	1-5	1-5	1-6	1-6	1-6	1-7
125	2-1	2-1	2-2	2-2	2-3	2-3	2-4	2-4	2-4	2-5
150	3-0	3-0	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-6
175	4-1	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9
200	5-3	5-5	5-6	5-7	5-8	5-10	5-11	6-0	6-1	6-2
225	6-8	6-10	6-11	7-1	7-3	7-4	7-6	7-7	7-8	7-10
250	8-3	8-5	8-7	8-9	8-11	9-1	9-3	9-4	9-6	9-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-4	1-4	1-5	1-5	1-5	1-6	1-6	1-6	1-6	1-7
125	2-1	2-2	2-2	2-3	2-3	2-3	2-4	2-4	2-5	2-5
150	3-0	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-5	3-6
175	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-8	4-9
200	5-4	5-6	5-7	5-8	5-9	5-10	5-11	6-1	6-2	6-3
225	6-9	6-11	7-1	7-2	7-4	7-5	7-6	7-8	7-9	7-11
250	8-5	8-7	8-8	8-10	9-0	9-2	9-4	9-6	9-7	9-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.212

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	3-5	3-5	3-5	3-6	3-6	3-6	3-6	3-7	3-7	3-7
175	4-7	4-8	4-8	4-9	4-9	4-9	4-10	4-10	4-10	4-11
200	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5
225	7-8	7-8	7-9	7-9	7-10	7-11	7-11	8-0	8-1	8-1
250	9-5	9-6	9-7	9-7	9-8	9-9	9-10	9-11	9-11	10-0
275	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-1
300	13-7	13-8	13-9	13-10	14-0	14-1	14-2	14-3	14-4	14-5
325	15-11	16-1	16-2	16-3	16-5	16-6	16-7	16-9	16-10	16-11
350	18-6	18-8	18-9	18-11	19-0	19-2	19-3	19-5	19-7	19-8
375	21-3	21-5	21-7	21-8	21-10	22-0	22-2	22-4	22-5	22-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	3-5	3-5	3-5	3-6	3-6	3-6	3-7	3-7	3-7	3-7
175	4-8	4-8	4-8	4-9	4-9	4-10	4-10	4-10	4-11	4-11
200	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5	6-5
225	7-8	7-9	7-9	7-10	7-11	7-11	8-0	8-0	8-1	8-2
250	9-6	9-6	9-7	9-8	9-9	9-10	9-10	9-11	10-0	10-1
275	11-6	11-7	11-8	11-8	11-9	11-10	11-11	12-0	12-1	12-2
300	13-8	13-9	13-10	13-11	14-0	14-2	14-3	14-4	14-5	14-6
325	16-0	16-2	16-3	16-4	16-6	16-7	16-8	16-10	16-11	17-0
350	18-7	18-9	18-10	19-0	19-1	19-3	19-4	19-6	19-7	19-9
375	21-4	21-6	21-8	21-10	22-0	22-1	22-3	22-5	22-7	22-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.213

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	6-4	6-4	6-4	6-4	6-5	6-5	6-5	6-6	6-6	6-6
225	8-0	8-0	8-0	8-1	8-1	8-2	8-2	8-2	8-3	8-3
250	9-10	9-11	9-11	10-0	10-0	10-0	10-1	10-1	10-2	10-2
275	11-11	12-0	12-0	12-1	12-1	12-2	12-2	12-3	12-3	12-4
300	14-2	14-3	14-4	14-4	14-5	14-6	14-6	14-7	14-7	14-8
325	16-8	16-9	16-10	16-10	16-11	17-0	17-1	17-1	17-2	17-3
350	19-4	19-5	19-6	19-7	19-8	19-9	19-9	19-10	19-11	20-0
375	22-3	22-4	22-5	22-6	22-7	22-8	22-9	22-10	22-11	23-0
400	25-4	25-5	25-6	25-7	25-8	25-9	25-11	26-0	26-1	26-2
425	28-7	28-8	28-10	28-11	29-0	29-2	29-3	29-4	29-5	29-7
450	32-1	32-2	32-4	32-5	32-7	32-8	32-10	32-11	33-0	33-2
475	35-9	35-11	36-0	36-2	36-4	36-5	36-7	36-8	36-10	37-0
500	39-8	39-10	40-0	40-1	40-3	40-5	40-7	40-8	40-10	41-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	6-4	6-4	6-4	6-5	6-5	6-5	6-5	6-6	6-6	6-6
225	8-0	8-0	8-1	8-1	8-1	8-2	8-2	8-2	8-3	8-3
250	9-11	9-11	9-11	10-0	10-0	10-1	10-1	10-2	10-2	10-2
275	12-0	12-0	12-1	12-1	12-2	12-2	12-3	12-3	12-4	12-4
300	14-3	14-4	14-4	14-5	14-5	14-6	14-7	14-7	14-8	14-9
325	16-9	16-9	16-10	16-11	17-0	17-0	17-1	17-2	17-3	17-3
350	19-5	19-6	19-7	19-7	19-8	19-9	19-10	19-11	20-0	20-1
375	22-4	22-5	22-6	22-6	22-7	22-8	22-9	22-10	22-11	23-0
400	25-5	25-6	25-7	25-8	25-9	25-10	25-11	26-0	26-1	26-3
425	28-8	28-9	28-11	29-0	29-1	29-2	29-4	29-5	29-6	29-7
450	32-2	32-3	32-5	32-6	32-8	32-9	32-11	33-0	33-1	33-3
475	35-10	36-0	36-2	36-3	36-5	36-6	36-8	36-10	36-11	37-1
500	39-9	39-11	40-1	40-3	40-4	40-6	40-8	40-10	40-11	41-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.214

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	10-1	10-1	10-2	10-2	10-2	10-3	10-3	10-3	10-3	10-4
275	12-3	12-3	12-3	12-4	12-4	12-4	12-5	12-5	12-5	12-6
300	14-7	14-7	14-7	14-8	14-8	14-9	14-9	14-9	14-10	14-10
325	17-1	17-2	17-2	17-3	17-3	17-3	17-4	17-4	17-5	17-5
350	19-10	19-11	19-11	20-0	20-0	20-1	20-1	20-2	20-2	20-3
375	22-9	22-10	22-11	22-11	23-0	23-1	23-1	23-2	23-2	23-3
400	25-11	26-0	26-1	26-1	26-2	26-3	26-4	26-4	26-5	26-6
425	29-4	29-5	29-5	29-6	29-7	29-8	29-9	29-9	29-10	29-11
450	32-11	33-0	33-0	33-1	33-2	33-3	33-4	33-5	33-6	33-7
475	36-8	36-9	36-10	36-11	37-0	37-1	37-2	37-3	37-4	37-5
500	40-8	40-9	40-10	40-11	41-0	41-2	41-3	41-4	41-5	41-6
525	44-10	45-0	45-1	45-2	45-3	45-5	45-6	45-7	45-8	45-10
550	49-4	49-5	49-6	49-8	49-9	49-10	50-0	50-1	50-2	50-4
575	53-11	54-1	54-2	54-4	54-5	54-7	54-8	54-10	54-11	55-1
600	58-9	58-11	59-1	59-2	59-4	59-6	59-7	59-9	59-10	60-0
625	63-10	64-0	64-2	64-4	64-5	64-7	64-9	64-11	65-0	65-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	10-1	10-2	10-2	10-2	10-3	10-3	10-3	10-3	10-4	10-4
275	12-3	12-3	12-4	12-4	12-4	12-5	12-5	12-5	12-6	12-6
300	14-7	14-7	14-8	14-8	14-9	14-9	14-9	14-10	14-10	14-11
325	17-2	17-2	17-2	17-3	17-3	17-4	17-4	17-5	17-5	17-6
350	19-10	19-11	20-0	20-0	20-1	20-1	20-2	20-2	20-3	20-3
375	22-10	22-11	22-11	23-0	23-0	23-1	23-2	23-2	23-3	23-3
400	26-0	26-1	26-1	26-2	26-3	26-3	26-4	26-5	26-5	26-6
425	29-4	29-5	29-6	29-7	29-8	29-8	29-9	29-10	29-11	29-11
450	32-11	33-0	33-1	33-2	33-3	33-4	33-5	33-6	33-6	33-7
475	36-9	36-10	36-11	37-0	37-1	37-2	37-3	37-4	37-5	37-6
500	40-9	40-10	40-11	41-0	41-1	41-2	41-3	41-5	41-6	41-7
525	44-11	45-1	45-2	45-3	45-4	45-6	45-7	45-8	45-9	45-10
550	49-5	49-6	49-7	49-9	49-10	49-11	50-1	50-2	50-3	50-5
575	54-0	54-2	54-3	54-5	54-6	54-8	54-9	54-11	55-0	55-2
600	58-11	59-0	59-2	59-4	59-5	59-7	59-8	59-10	59-11	60-1
625	64-0	64-1	64-3	64-5	64-7	64-8	64-10	65-0	65-2	65-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.215

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 3/0 RTS TRIPLEX CONDUCTOR. CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION
- 1000 LB TENSION ---------- 822.2
- 1500 LB TENSION ---------- 822.10
- 2000 LB TENSION ---------- 822.18

G.O. 95 HEAVY LOADING CONDITION
- 1000 LB TENSION ---------- 822.26
- 1500 LB TENSION ---------- 822.34
- 2000 LB TENSION ---------- 822.42

SDG&E EXTRA HEAVY LOADING CONDITION
- 1000 LB TENSION ---------- 822.50
- 1500 LB TENSION ---------- 822.56
- 2000 LB TENSION ---------- 822.64

65 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 822.72
- 1500 LB TENSION ---------- 822.80
- 2000 LB TENSION ---------- 822.88

65 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 822.96
- 1500 LB TENSION ---------- 822.104
- 2000 LB TENSION ---------- 822.112

85 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 822.120
- 1500 LB TENSION ---------- 822.128
- 2000 LB TENSION ---------- 822.136

85 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 822.144
- 1500 LB TENSION ---------- 822.152
- 2000 LB TENSION ---------- 822.160

111 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 822.168
- 1500 LB TENSION ---------- 822.176
- 2000 LB TENSION ---------- 822.184

111 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 822.192
- 1500 LB TENSION ---------- 822.200
- 2000 LB TENSION ---------- 822.208

REFERENCE:

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.001	1.25	1000	1.25	1000*
25	0	0	0	0.629	1.02	769	1.01	776
30	0	0	0	0.629	1.06	740	1.05	747
40	0	0	0	0.629	1.14	688	1.13	695
50	0	0	0	0.629	1.22	643	1.21	648
60	0	0	0	0.629	1.31	603	1.29	608
70	0	0	0	0.629	1.39	568	1.38	572
80	0	0	0	0.629	1.47	537	1.46	541
90	0	0	0	0.629	1.54	510	1.53	513
100	0	0	0	0.629	1.62	486	1.61	488
110	0	0	0	0.629	1.69	465	1.69	466
120	0	0	0	0.629	1.77	446	1.76	447
130	0	0	0	0.629	1.84	428	1.82	432
167	0	0	0	0.629	2.07	381	2.05	385
212	0	0	0	0.629	2.32	339	2.3	343

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.001	5.02	1000	5.02	1000*
25	0	0	0	0.629	4.71	669	4.69	672
30	0	0	0	0.629	4.76	662	4.75	664
40	0	0	0	0.629	4.87	647	4.86	649
50	0	0	0	0.629	4.98	633	4.97	635
60	0	0	0	0.629	5.09	620	5.07	622
70	0	0	0	0.629	5.19	607	5.18	609
80	0	0	0	0.629	5.29	596	5.28	597
90	0	0	0	0.629	5.4	585	5.39	586
100	0	0	0	0.629	5.5	574	5.49	575
110	0	0	0	0.629	5.59	564	5.59	564
120	0	0	0	0.629	5.69	554	5.69	555
130	0	0	0	0.629	5.79	545	5.79	545
167	0	0	0	0.629	6.12	516	6.1	518
212	0	0	0	0.629	6.48	487	6.46	489

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.2

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.001	11.33	1000	11.33	1000*
25	0	0	0	0.629	11	647	10.98	648
30	0	0	0	0.629	11.06	643	11.04	644
40	0	0	0	0.629	11.17	637	11.16	638
50	0	0	0	0.629	11.29	631	11.27	631
60	0	0	0	0.629	11.4	624	11.38	625
70	0	0	0	0.629	11.51	618	11.5	619
80	0	0	0	0.629	11.62	613	11.61	613
90	0	0	0	0.629	11.73	607	11.72	607
100	0	0	0	0.629	11.84	601	11.83	602
110	0	0	0	0.629	11.95	596	11.94	596
120	0	0	0	0.629	12.05	591	12.05	591
130	0	0	0	0.629	12.16	586	12.16	586
167	0	0	0	0.629	12.53	568	12.52	569
212	0	0	0	0.629	12.95	550	12.93	551

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.001	20.22	1000	20.22	1000*
25	0	0	0	0.629	19.9	639	19.88	639
30	0	0	0	0.629	19.95	637	19.93	637
40	0	0	0	0.629	20.07	633	20.05	634
50	0	0	0	0.629	20.19	630	20.17	630
60	0	0	0	0.629	20.3	626	20.29	627
70	0	0	0	0.629	20.41	623	20.4	623
80	0	0	0	0.629	20.53	619	20.52	620
90	0	0	0	0.629	20.64	616	20.63	616
100	0	0	0	0.629	20.75	613	20.75	613
110	0	0	0	0.629	20.86	609	20.86	610
120	0	0	0	0.629	20.98	606	20.97	606
130	0	0	0	0.629	21.09	603	21.09	603
167	0	0	0	0.629	21.48	592	21.47	593
212	0	0	0	0.629	21.93	581	21.91	581

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.3

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.001	31.79	1000	31.79	1000*
25	0	0	0	0.629	31.46	635	31.44	635
30	0	0	0	0.629	31.51	634	31.49	634
40	0	0	0	0.629	31.63	631	31.61	632
50	0	0	0	0.629	31.75	629	31.73	629
60	0	0	0	0.629	31.86	627	31.85	627
70	0	0	0	0.629	31.98	625	31.97	625
80	0	0	0	0.629	32.09	623	32.08	623
90	0	0	0	0.629	32.21	620	32.2	621
100	0	0	0	0.629	32.32	618	32.32	618
110	0	0	0	0.629	32.44	616	32.43	616
120	0	0	0	0.629	32.55	614	32.55	614
130	0	0	0	0.629	32.66	612	32.66	612
167	0	0	0	0.629	33.07	605	33.06	605
212	0	0	0	0.629	33.53	597	33.51	597

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11
100.00	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8
125.00	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-5	2-6	2-8
150.00	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-5	3-8	3-10
175.00	3-0	3-3	3-6	3-9	4-0	4-3	4-6	4-8	4-11	5-2
200.00	3-11	4-3	4-6	4-10	5-2	5-6	5-10	6-2	6-5	6-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11
100.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8
125.00	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-5	2-6	2-8
150.00	2-3	2-5	2-7	2-9	2-11	3-1	3-4	3-6	3-8	3-10
175.00	3-0	3-3	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-2
200.00	3-11	4-3	4-7	4-11	5-3	5-7	5-10	6-2	6-6	6-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.5

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-4	1-4	1-5
125.00	1-10	1-10	1-11	1-11	2-0	2-0	2-1	2-1	2-2	2-2
150.00	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-0	3-1	3-2
175.00	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-1	4-2	4-3
200.00	4-8	4-9	4-10	5-0	5-1	5-2	5-3	5-5	5-6	5-7
225.00	5-10	6-0	6-2	6-3	6-5	6-7	6-8	6-10	6-11	7-1
250.00	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-7	8-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-4	1-4	1-5
125.00	1-10	1-10	1-11	1-11	2-0	2-0	2-1	2-1	2-2	2-2
150.00	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-0	3-1	3-2
175.00	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-2	4-3
200.00	4-8	4-9	4-10	5-0	5-1	5-2	5-4	5-5	5-6	5-7
225.00	5-11	6-0	6-2	6-4	6-5	6-7	6-8	6-10	6-11	7-1
250.00	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-7	8-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.6

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-9	2-9	2-10	2-10	2-10	2-11	2-11	2-11	3-0
175.00	3-9	3-9	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-1
200.00	4-10	4-11	4-11	5-0	5-1	5-1	5-2	5-2	5-3	5-4
225.00	6-2	6-2	6-3	6-4	6-5	6-6	6-6	6-7	6-8	6-9
250.00	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-3
275.00	9-2	9-3	9-4	9-6	9-7	9-8	9-9	9-10	9-11	10-0
300.00	10-11	11-0	11-2	11-3	11-5	11-6	11-7	11-9	11-10	11-11
325.00	12-10	13-0	13-1	13-3	13-4	13-6	13-8	13-9	13-11	14-0
350.00	14-11	15-0	15-2	15-4	15-6	15-8	15-10	16-0	16-1	16-3
375.00	17-1	17-3	17-5	17-8	17-10	18-0	18-2	18-4	18-6	18-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-9	2-9	2-10	2-10	2-10	2-11	2-11	2-11	3-0
175.00	3-9	3-9	3-10	3-10	3-10	3-11	3-11	4-0	4-0	4-1
200.00	4-10	4-11	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-4
225.00	6-2	6-3	6-3	6-4	6-5	6-6	6-6	6-7	6-8	6-9
250.00	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-3
275.00	9-2	9-3	9-5	9-6	9-7	9-8	9-9	9-10	9-11	10-0
300.00	10-11	11-1	11-2	11-3	11-5	11-6	11-7	11-9	11-10	11-11
325.00	12-10	13-0	13-1	13-3	13-5	13-6	13-8	13-9	13-11	14-0
350.00	14-11	15-1	15-3	15-4	15-6	15-8	15-10	16-0	16-2	16-3
375.00	17-1	17-4	17-6	17-8	17-10	18-0	18-2	18-4	18-6	18-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.7

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-11	5-0	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-2
225.00	6-3	6-4	6-4	6-4	6-5	6-5	6-6	6-6	6-7	6-7
250.00	7-9	7-9	7-10	7-10	7-11	7-11	8-0	8-1	8-1	8-2
275.00	9-4	9-5	9-6	9-6	9-7	9-8	9-8	9-9	9-9	9-10
300.00	11-2	11-2	11-3	11-4	11-5	11-6	11-6	11-7	11-8	11-9
325.00	13-1	13-2	13-3	13-4	13-5	13-5	13-6	13-7	13-8	13-9
350.00	15-2	15-3	15-4	15-5	15-6	15-7	15-8	15-9	15-10	15-11
375.00	17-5	17-6	17-7	17-9	17-10	17-11	18-0	18-2	18-3	18-4
400.00	19-10	19-11	20-1	20-2	20-3	20-5	20-6	20-8	20-9	20-10
425.00	22-5	22-6	22-8	22-9	22-11	23-0	23-2	23-4	23-5	23-7
450.00	25-1	25-3	25-5	25-7	25-8	25-10	26-0	26-2	26-3	26-5
475.00	28-0	28-2	28-4	28-6	28-8	28-10	29-0	29-2	29-4	29-6
500.00	31-0	31-2	31-5	31-7	31-9	31-11	32-1	32-4	32-6	32-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-11	5-0	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-2
225.00	6-3	6-4	6-4	6-4	6-5	6-5	6-6	6-6	6-7	6-7
250.00	7-9	7-9	7-10	7-10	7-11	7-11	8-0	8-1	8-1	8-2
275.00	9-4	9-5	9-6	9-6	9-7	9-8	9-8	9-9	9-9	9-10
300.00	11-2	11-2	11-3	11-4	11-5	11-6	11-6	11-7	11-8	11-9
325.00	13-1	13-2	13-3	13-4	13-5	13-6	13-6	13-7	13-8	13-9
350.00	15-2	15-3	15-4	15-5	15-6	15-7	15-8	15-9	15-11	16-0
375.00	17-5	17-6	17-8	17-9	17-10	17-11	18-0	18-2	18-3	18-4
400.00	19-10	19-11	20-1	20-2	20-4	20-5	20-6	20-8	20-9	20-10
425.00	22-5	22-6	22-8	22-10	22-11	23-1	23-2	23-4	23-5	23-7
450.00	25-2	25-3	25-5	25-7	25-9	25-10	26-0	26-2	26-3	26-5
475.00	28-0	28-2	28-4	28-6	28-8	28-10	29-0	29-2	29-4	29-6
500.00	31-1	31-3	31-5	31-7	31-9	32-0	32-2	32-4	32-6	32-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.8

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-10	7-10	7-10	7-11	7-11	8-0	8-0	8-0	8-1	8-1
275.00	9-5	9-6	9-6	9-7	9-7	9-8	9-8	9-8	9-9	9-9
300.00	11-3	11-4	11-4	11-5	11-5	11-6	11-6	11-7	11-7	11-8
325.00	13-3	13-3	13-4	13-4	13-5	13-6	13-6	13-7	13-7	13-8
350.00	15-4	15-5	15-5	15-6	15-7	15-7	15-8	15-9	15-9	15-10
375.00	17-7	17-8	17-9	17-10	17-10	17-11	18-0	18-1	18-2	18-2
400.00	20-1	20-1	20-2	20-3	20-4	20-5	20-6	20-7	20-8	20-9
425.00	22-8	22-9	22-10	22-11	23-0	23-1	23-2	23-3	23-4	23-5
450.00	25-5	25-6	25-7	25-8	25-9	25-10	26-0	26-1	26-2	26-3
475.00	28-4	28-5	28-6	28-7	28-9	28-10	28-11	29-1	29-2	29-3
500.00	31-5	31-6	31-7	31-9	31-10	32-0	32-1	32-2	32-4	32-5
525.00	34-7	34-9	34-10	35-0	35-2	35-3	35-5	35-6	35-8	35-9
550.00	38-0	38-2	38-4	38-5	38-7	38-9	38-10	39-0	39-2	39-3
575.00	41-7	41-9	41-11	42-0	42-2	42-4	42-6	42-8	42-10	43-0
600.00	45-3	45-5	45-8	45-10	46-0	46-2	46-4	46-6	46-8	46-10
625.00	49-2	49-4	49-6	49-9	49-11	50-1	50-3	50-6	50-8	50-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-10	7-10	7-11	7-11	7-11	8-0	8-0	8-0	8-1	8-1
275.00	9-6	9-6	9-6	9-7	9-7	9-8	9-8	9-8	9-9	9-9
300.00	11-3	11-4	11-4	11-5	11-5	11-6	11-6	11-7	11-7	11-8
325.00	13-3	13-3	13-4	13-4	13-5	13-6	13-6	13-7	13-7	13-8
350.00	15-4	15-5	15-5	15-6	15-7	15-8	15-8	15-9	15-10	15-10
375.00	17-7	17-8	17-9	17-10	17-11	17-11	18-0	18-1	18-2	18-2
400.00	20-1	20-2	20-2	20-3	20-4	20-5	20-6	20-7	20-8	20-9
425.00	22-8	22-9	22-10	22-11	23-0	23-1	23-2	23-3	23-4	23-5
450.00	25-5	25-6	25-7	25-8	25-9	25-11	26-0	26-1	26-2	26-3
475.00	28-4	28-5	28-6	28-8	28-9	28-10	28-11	29-1	29-2	29-3
500.00	31-5	31-6	31-8	31-9	31-10	32-0	32-1	32-3	32-4	32-5
525.00	34-8	34-9	34-11	35-0	35-2	35-3	35-5	35-6	35-8	35-9
550.00	38-0	38-2	38-4	38-5	38-7	38-9	38-11	39-0	39-2	39-4
575.00	41-7	41-9	41-11	42-1	42-3	42-4	42-6	42-8	42-10	43-0
600.00	45-4	45-6	45-8	45-10	46-0	46-2	46-4	46-6	46-8	46-10
625.00	49-2	49-5	49-7	49-9	49-11	50-1	50-4	50-6	50-8	50-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.9

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.001	0.83	1500	0.83	1500*
25	0	0	0	0.629	0.59	1344	0.58	1351
30	0	0	0	0.629	0.61	1291	0.6	1301
40	0	0	0	0.629	0.66	1189	0.65	1203
50	0	0	0	0.629	0.72	1094	0.71	1110
60	0	0	0	0.629	0.78	1005	0.77	1022
70	0	0	0	0.629	0.85	924	0.84	941
80	0	0	0	0.629	0.92	851	0.91	868
90	0	0	0	0.629	1	786	0.98	801
100	0	0	0	0.629	1.08	728	1.06	742
110	0	0	0	0.629	1.16	677	1.14	689
120	0	0	0	0.629	1.24	633	1.22	643
130	0	0	0	0.629	1.32	594	1.31	603
167	0	0	0	0.629	1.6	492	1.57	503
212	0	0	0	0.629	1.89	416	1.86	424

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.001	3.34	1500	3.34	1500*
25	0	0	0	0.629	2.79	1128	2.77	1137
30	0	0	0	0.629	2.86	1102	2.83	1111
40	0	0	0	0.629	2.98	1055	2.96	1064
50	0	0	0	0.629	3.11	1011	3.09	1020
60	0	0	0	0.629	3.24	971	3.21	980
70	0	0	0	0.629	3.37	934	3.34	942
80	0	0	0	0.629	3.5	900	3.47	907
90	0	0	0	0.629	3.62	869	3.6	876
100	0	0	0	0.629	3.75	840	3.72	846
110	0	0	0	0.629	3.87	813	3.85	819
120	0	0	0	0.629	3.99	789	3.97	793
130	0	0	0	0.629	4.12	766	4.09	770
167	0	0	0	0.629	4.55	693	4.51	698
212	0	0	0	0.629	4.99	632	4.96	636

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.10

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.001	7.53	1500	7.53	1500*
25	0	0	0	0.629	6.86	1033	6.83	1038
30	0	0	0	0.629	6.94	1021	6.91	1026
40	0	0	0	0.629	7.1	999	7.07	1004
50	0	0	0	0.629	7.26	977	7.22	982
60	0	0	0	0.629	7.41	957	7.38	962
70	0	0	0	0.629	7.56	938	7.53	942
80	0	0	0	0.629	7.71	920	7.68	924
90	0	0	0	0.629	7.86	903	7.83	906
100	0	0	0	0.629	8.01	886	7.98	889
110	0	0	0	0.629	8.15	871	8.13	873
120	0	0	0	0.629	8.3	856	8.27	858
130	0	0	0	0.629	8.44	841	8.42	843
167	0	0	0	0.629	8.95	793	8.93	795
212	0	0	0	0.629	9.51	747	9.47	750

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.001	13.41	1500	13.41	1500*
25	0	0	0	0.629	12.7	994	12.66	997
30	0	0	0	0.629	12.79	988	12.75	991
40	0	0	0	0.629	12.95	975	12.91	978
50	0	0	0	0.629	13.12	963	13.08	966
60	0	0	0	0.629	13.28	951	13.25	954
70	0	0	0	0.629	13.44	940	13.41	942
80	0	0	0	0.629	13.61	929	13.57	931
90	0	0	0	0.629	13.76	918	13.73	920
100	0	0	0	0.629	13.92	908	13.89	910
110	0	0	0	0.629	14.08	898	14.05	900
120	0	0	0	0.629	14.23	888	14.21	890
130	0	0	0	0.629	14.39	879	14.37	880
167	0	0	0	0.629	14.95	846	14.94	847
212	0	0	0	0.629	15.57	813	15.54	815

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.11

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.001	21	1500	21	1500*
25	0	0	0	0.629	20.28	976	20.24	978
30	0	0	0	0.629	20.36	972	20.32	974
40	0	0	0	0.629	20.54	964	20.49	966
50	0	0	0	0.629	20.7	956	20.66	958
60	0	0	0	0.629	20.87	948	20.83	950
70	0	0	0	0.629	21.04	941	21	942
80	0	0	0	0.629	21.21	934	21.17	935
90	0	0	0	0.629	21.37	926	21.34	928
100	0	0	0	0.629	21.54	920	21.5	921
110	0	0	0	0.629	21.7	913	21.67	914
120	0	0	0	0.629	21.86	906	21.84	907
130	0	0	0	0.629	22.02	900	22	900
167	0	0	0	0.629	22.61	877	22.6	877
212	0	0	0	0.629	23.28	852	23.24	853

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8
100.00	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2
125.00	0-11	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-9
150.00	1-3	1-4	1-6	1-7	1-9	1-11	2-0	2-3	2-5	2-7
175.00	1-9	1-10	2-0	2-2	2-4	2-7	2-9	3-0	3-3	3-6
200.00	2-3	2-5	2-7	2-10	3-1	3-4	3-8	3-11	4-3	4-7

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8
100.00	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2
125.00	0-11	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-8	1-10
150.00	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-5	2-7
175.00	1-9	1-10	2-0	2-2	2-5	2-7	2-10	3-1	3-4	3-7
200.00	2-3	2-5	2-8	2-11	3-2	3-5	3-8	4-0	4-4	4-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.13

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-8	0-9	0-9	0-10	0-10	0-10	0-11	0-11	1-0
125.00	1-1	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-5	1-6
150.00	1-6	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-1	2-2
175.00	2-1	2-2	2-3	2-4	2-6	2-7	2-8	2-9	2-10	2-11
200.00	2-8	2-10	3-0	3-1	3-3	3-4	3-6	3-7	3-9	3-10
225.00	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-7	4-9	4-10
250.00	4-3	4-5	4-7	4-10	5-0	5-3	5-5	5-7	5-10	6-0

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-9	0-9	0-10	0-10	0-10	0-11	0-11	1-0
125.00	1-1	1-1	1-2	1-3	1-3	1-4	1-4	1-5	1-6	1-6
150.00	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-0	2-1	2-2
175.00	2-1	2-2	2-3	2-5	2-6	2-7	2-8	2-9	2-10	3-0
200.00	2-9	2-10	3-0	3-1	3-3	3-4	3-6	3-7	3-9	3-10
225.00	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-7	4-9	4-11
250.00	4-3	4-6	4-8	4-10	5-1	5-3	5-6	5-8	5-10	6-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-8	1-9	1-9	1-10	1-10	1-11	1-11	1-11	2-0	2-0
175.00	2-4	2-4	2-5	2-5	2-6	2-7	2-7	2-8	2-9	2-9
200.00	3-0	3-1	3-2	3-2	3-3	3-4	3-5	3-6	3-7	3-7
225.00	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7
250.00	4-8	4-10	4-11	5-0	5-1	5-3	5-4	5-5	5-6	5-8
275.00	5-8	5-10	5-11	6-1	6-2	6-4	6-5	6-7	6-8	6-10
300.00	6-9	6-11	7-1	7-3	7-5	7-6	7-8	7-10	8-0	8-2
325.00	7-11	8-1	8-4	8-6	8-8	8-10	9-0	9-2	9-4	9-6
350.00	9-2	9-5	9-7	9-10	10-1	10-3	10-5	10-8	10-10	11-1
375.00	10-7	10-10	11-1	11-3	11-6	11-9	12-0	12-3	12-6	12-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-8	1-9	1-9	1-10	1-10	1-11	1-11	2-0	2-0	2-0
175.00	2-4	2-4	2-5	2-6	2-6	2-7	2-7	2-8	2-9	2-9
200.00	3-0	3-1	3-2	3-3	3-4	3-4	3-5	3-6	3-7	3-7
225.00	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7
250.00	4-9	4-10	4-11	5-0	5-2	5-3	5-4	5-5	5-7	5-8
275.00	5-8	5-10	6-0	6-1	6-3	6-4	6-6	6-7	6-9	6-10
300.00	6-9	6-11	7-1	7-3	7-5	7-7	7-9	7-10	8-0	8-2
325.00	8-0	8-2	8-4	8-6	8-8	8-11	9-1	9-3	9-5	9-7
350.00	9-3	9-5	9-8	9-11	10-1	10-4	10-6	10-8	10-11	11-1
375.00	10-7	10-10	11-1	11-4	11-7	11-10	12-1	12-3	12-6	12-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.15

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6	3-6
225.00	4-0	4-0	4-1	4-2	4-2	4-3	4-3	4-4	4-5	4-5
250.00	4-11	5-0	5-0	5-1	5-2	5-3	5-4	5-4	5-5	5-6
275.00	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8
300.00	7-1	7-2	7-3	7-4	7-5	7-6	7-8	7-9	7-10	7-11
325.00	8-4	8-5	8-6	8-8	8-9	8-10	8-11	9-1	9-2	9-3
350.00	9-8	9-9	9-11	10-0	10-2	10-3	10-5	10-6	10-8	10-9
375.00	11-1	11-2	11-4	11-6	11-8	11-9	11-11	12-1	12-2	12-4
400.00	12-7	12-9	12-11	13-1	13-3	13-5	13-7	13-9	13-11	14-1
425.00	14-2	14-5	14-7	14-9	14-11	15-2	15-4	15-6	15-8	15-10
450.00	15-11	16-2	16-4	16-7	16-9	17-0	17-2	17-5	17-7	17-9
475.00	17-9	18-0	18-3	18-5	18-8	18-11	19-2	19-5	19-7	19-10
500.00	19-8	19-11	20-2	20-5	20-9	21-0	21-3	21-6	21-9	22-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6	3-6
225.00	4-0	4-1	4-1	4-2	4-2	4-3	4-4	4-4	4-5	4-5
250.00	4-11	5-0	5-1	5-1	5-2	5-3	5-4	5-4	5-5	5-6
275.00	6-0	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8
300.00	7-1	7-2	7-3	7-4	7-6	7-7	7-8	7-9	7-10	7-11
325.00	8-4	8-5	8-7	8-8	8-9	8-10	9-0	9-1	9-2	9-3
350.00	9-8	9-9	9-11	10-0	10-2	10-3	10-5	10-6	10-8	10-9
375.00	11-1	11-3	11-5	11-6	11-8	11-10	11-11	12-1	12-3	12-4
400.00	12-7	12-9	12-11	13-1	13-3	13-5	13-7	13-9	13-11	14-1
425.00	14-3	14-5	14-8	14-10	15-0	15-2	15-4	15-7	15-9	15-11
450.00	16-0	16-2	16-5	16-7	16-10	17-0	17-3	17-5	17-8	17-10
475.00	17-10	18-1	18-3	18-6	18-9	19-0	19-2	19-5	19-8	19-10
500.00	19-9	20-0	20-3	20-6	20-9	21-0	21-3	21-6	21-9	22-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.16

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-5
275.00	6-1	6-2	6-2	6-3	6-4	6-4	6-5	6-5	6-6	6-7
300.00	7-3	7-4	7-4	7-5	7-6	7-7	7-7	7-8	7-9	7-9
325.00	8-6	8-7	8-8	8-9	8-9	8-10	8-11	9-0	9-1	9-2
350.00	9-10	9-11	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7
375.00	11-4	11-5	11-6	11-7	11-8	11-10	11-11	12-0	12-1	12-2
400.00	12-11	13-0	13-1	13-3	13-4	13-5	13-6	13-8	13-9	13-10
425.00	14-7	14-8	14-10	14-11	15-1	15-2	15-3	15-5	15-6	15-8
450.00	16-4	16-5	16-7	16-9	16-10	17-0	17-2	17-3	17-5	17-7
475.00	18-2	18-4	18-6	18-8	18-10	18-11	19-1	19-3	19-5	19-7
500.00	20-2	20-4	20-6	20-8	20-10	21-0	21-2	21-4	21-6	21-8
525.00	22-3	22-5	22-7	22-9	23-0	23-2	23-4	23-6	23-9	23-11
550.00	24-5	24-7	24-10	25-0	25-3	25-5	25-8	25-10	26-0	26-3
575.00	26-8	26-11	27-1	27-4	27-7	27-10	28-0	28-3	28-6	28-8
600.00	29-1	29-4	29-6	29-9	30-0	30-3	30-6	30-9	31-0	31-3
625.00	31-6	31-10	32-1	32-4	32-7	32-10	33-1	33-5	33-8	33-11

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-0	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-4	5-5
275.00	6-1	6-2	6-2	6-3	6-4	6-4	6-5	6-5	6-6	6-7
300.00	7-3	7-4	7-5	7-5	7-6	7-7	7-7	7-8	7-9	7-10
325.00	8-6	8-7	8-8	8-9	8-10	8-11	8-11	9-0	9-1	9-2
350.00	9-11	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-6	10-7
375.00	11-4	11-5	11-6	11-8	11-9	11-10	11-11	12-0	12-1	12-2
400.00	12-11	13-0	13-2	13-3	13-4	13-5	13-7	13-8	13-9	13-10
425.00	14-7	14-8	14-10	14-11	15-1	15-2	15-4	15-5	15-7	15-8
450.00	16-4	16-6	16-8	16-9	16-11	17-0	17-2	17-4	17-5	17-7
475.00	18-3	18-5	18-6	18-8	18-10	19-0	19-2	19-3	19-5	19-7
500.00	20-2	20-4	20-6	20-8	20-10	21-0	21-2	21-4	21-6	21-8
525.00	22-3	22-5	22-8	22-10	23-0	23-2	23-5	23-7	23-9	23-11
550.00	24-5	24-8	24-10	25-1	25-3	25-6	25-8	25-10	26-1	26-3
575.00	26-9	26-11	27-2	27-5	27-8	27-10	28-1	28-3	28-6	28-9
600.00	29-1	29-4	29-7	29-10	30-1	30-4	30-7	30-10	31-1	31-3
625.00	31-7	31-10	32-2	32-5	32-8	32-11	33-2	33-5	33-8	33-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.17

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.001	0.63	1993	0.63	2000*
25	0	0	0	0.629	0.41	1895	0.41	1909
30	0	0	0	0.629	0.43	1835	0.42	1853
40	0	0	0	0.629	0.46	1716	0.45	1741
50	0	0	0	0.629	0.49	1599	0.48	1630
60	0	0	0	0.629	0.53	1485	0.52	1522
70	0	0	0	0.629	0.57	1375	0.56	1415
80	0	0	0	0.629	0.62	1270	0.6	1311
90	0	0	0	0.629	0.67	1169	0.65	1211
100	0	0	0	0.629	0.73	1075	0.7	1116
110	0	0	0	0.629	0.8	988	0.77	1027
120	0	0	0	0.629	0.87	909	0.83	945
130	0	0	0	0.629	0.94	837	0.9	870
167	0	0	0	0.629	1.23	640	1.18	666
212	0	0	0	0.629	1.55	509	1.49	527

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.001	2.5	2000	2.5	2000*
25	0	0	0	0.629	1.86	1690	1.85	1704
30	0	0	0	0.629	1.91	1645	1.89	1662
40	0	0	0	0.629	2.02	1560	1.99	1579
50	0	0	0	0.629	2.13	1480	2.1	1501
60	0	0	0	0.629	2.24	1404	2.21	1426
70	0	0	0	0.629	2.36	1334	2.32	1356
80	0	0	0	0.629	2.48	1268	2.44	1290
90	0	0	0	0.629	2.61	1208	2.56	1229
100	0	0	0	0.629	2.73	1152	2.69	1172
110	0	0	0	0.629	2.86	1100	2.81	1119
120	0	0	0	0.629	2.99	1053	2.94	1070
130	0	0	0	0.629	3.12	1009	3.07	1025
167	0	0	0	0.629	3.59	877	3.55	887
212	0	0	0	0.629	4.1	768	4.05	778

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.001	5.64	2000	5.64	2000*
25	0	0	0	0.629	4.68	1514	4.64	1527
30	0	0	0	0.629	4.76	1487	4.72	1501
40	0	0	0	0.629	4.93	1437	4.88	1451
50	0	0	0	0.629	5.1	1389	5.05	1404
60	0	0	0	0.629	5.27	1345	5.21	1359
70	0	0	0	0.629	5.44	1303	5.38	1317
80	0	0	0	0.629	5.61	1264	5.55	1277
90	0	0	0	0.629	5.78	1227	5.72	1240
100	0	0	0	0.629	5.94	1193	5.88	1205
110	0	0	0	0.629	6.11	1160	6.05	1172
120	0	0	0	0.629	6.27	1130	6.22	1140
130	0	0	0	0.629	6.44	1101	6.38	1111
167	0	0	0	0.629	7.03	1009	6.98	1016
212	0	0	0	0.629	7.69	922	7.64	929

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.001	10.04	2000	10.04	2000*
25	0	0	0	0.629	8.91	1414	8.85	1424
30	0	0	0	0.629	9.02	1398	8.95	1408
40	0	0	0	0.629	9.21	1368	9.15	1378
50	0	0	0	0.629	9.41	1339	9.35	1349
60	0	0	0	0.629	9.61	1312	9.54	1321
70	0	0	0	0.629	9.81	1286	9.74	1295
80	0	0	0	0.629	10	1261	9.93	1270
90	0	0	0	0.629	10.19	1238	10.12	1246
100	0	0	0	0.629	10.38	1215	10.32	1223
110	0	0	0	0.629	10.57	1193	10.51	1201
120	0	0	0	0.629	10.76	1173	10.69	1180
130	0	0	0	0.629	10.94	1153	10.88	1159
167	0	0	0	0.629	11.61	1087	11.56	1092
212	0	0	0	0.629	12.39	1019	12.33	1024

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.19

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.001	15.7	2000	15.7	2000*
25	0	0	0	0.629	14.5	1360	14.43	1367
30	0	0	0	0.629	14.61	1350	14.54	1357
40	0	0	0	0.629	14.82	1331	14.75	1337
50	0	0	0	0.629	15.04	1312	14.96	1318
60	0	0	0	0.629	15.25	1294	15.17	1300
70	0	0	0	0.629	15.46	1277	15.38	1283
80	0	0	0	0.629	15.66	1260	15.59	1266
90	0	0	0	0.629	15.87	1244	15.8	1249
100	0	0	0	0.629	16.07	1228	16	1233
110	0	0	0	0.629	16.28	1213	16.21	1218
120	0	0	0	0.629	16.48	1198	16.41	1203
130	0	0	0	0.629	16.68	1184	16.61	1188
167	0	0	0	0.629	17.4	1135	17.35	1139
212	0	0	0	0.629	18.25	1083	18.2	1086

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
100.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9
125.00	0-8	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2
150.00	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9
175.00	1-3	1-4	1-5	1-6	1-7	1-8	1-10	2-0	2-2	2-4
200.00	1-7	1-8	1-10	1-11	2-1	2-3	2-5	2-7	2-10	3-1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5
100.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
125.00	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3
150.00	0-11	1-0	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-9
175.00	1-3	1-4	1-5	1-6	1-7	1-9	1-11	2-1	2-3	2-5
200.00	1-7	1-9	1-10	2-0	2-1	2-3	2-6	2-8	2-11	3-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.21

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8
125.00	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1
150.00	1-0	1-1	1-1	1-2	1-3	1-4	1-4	1-5	1-6	1-7
175.00	1-5	1-5	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-2
200.00	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-7	2-8	2-10
225.00	2-3	2-5	2-6	2-8	2-10	2-11	3-1	3-3	3-5	3-7
250.00	2-10	2-11	3-1	3-3	3-5	3-8	3-10	4-0	4-2	4-5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9
125.00	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1
150.00	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-6	1-7
175.00	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
200.00	1-10	1-11	2-0	2-2	2-3	2-4	2-6	2-7	2-9	2-10
225.00	2-4	2-5	2-7	2-8	2-10	3-0	3-2	3-4	3-6	3-7
250.00	2-10	3-0	3-2	3-4	3-6	3-8	3-11	4-1	4-3	4-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.22

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6
175.00	1-7	1-7	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-1
200.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-6	2-7	2-8
225.00	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-3	3-4	3-5
250.00	3-2	3-3	3-5	3-6	3-7	3-9	3-10	4-0	4-1	4-2
275.00	3-10	4-0	4-1	4-3	4-5	4-6	4-8	4-10	4-11	5-1
300.00	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-1
325.00	5-4	5-6	5-9	5-11	6-1	6-4	6-6	6-9	6-11	7-1
350.00	6-2	6-5	6-8	6-10	7-1	7-4	7-7	7-9	8-0	8-3
375.00	7-1	7-4	7-8	7-11	8-2	8-5	8-8	8-11	9-2	9-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6
175.00	1-7	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-0	2-1
200.00	2-1	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
225.00	2-7	2-8	2-9	2-10	3-0	3-1	3-2	3-3	3-4	3-5
250.00	3-2	3-4	3-5	3-6	3-8	3-9	3-11	4-0	4-2	4-3
275.00	3-10	4-0	4-2	4-3	4-5	4-7	4-9	4-10	5-0	5-2
300.00	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-1
325.00	5-5	5-7	5-9	6-0	6-2	6-5	6-7	6-9	7-0	7-2
350.00	6-3	6-6	6-9	6-11	7-2	7-5	7-8	7-10	8-1	8-4
375.00	7-2	7-5	7-8	8-0	8-3	8-6	8-9	9-0	9-3	9-7

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STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.23

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-6	2-7	2-7
225.00	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-2	3-3	3-4
250.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-11	4-0	4-1
275.00	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	5-0
300.00	4-11	5-0	5-2	5-3	5-4	5-6	5-7	5-8	5-10	5-11
325.00	5-9	5-11	6-0	6-2	6-4	6-5	6-7	6-8	6-10	6-11
350.00	6-8	6-10	7-0	7-2	7-4	7-5	7-7	7-9	7-11	8-0
375.00	7-8	7-10	8-1	8-3	8-5	8-7	8-9	8-11	9-1	9-3
400.00	8-9	8-11	9-2	9-4	9-7	9-9	9-11	10-1	10-4	10-6
425.00	9-11	10-1	10-4	10-7	10-9	11-0	11-3	11-5	11-8	11-10
450.00	11-1	11-4	11-7	11-10	12-1	12-4	12-7	12-10	13-1	13-4
475.00	12-4	12-8	12-11	13-2	13-6	13-9	14-0	14-3	14-7	14-10
500.00	13-8	14-0	14-4	14-7	14-11	15-3	15-6	15-10	16-2	16-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-2	2-3	2-4	2-4	2-5	2-5	2-6	2-7	2-7	2-8
225.00	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3	3-4
250.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
275.00	4-2	4-3	4-4	4-5	4-6	4-8	4-9	4-10	4-11	5-0
300.00	4-11	5-1	5-2	5-4	5-5	5-6	5-7	5-9	5-10	5-11
325.00	5-10	5-11	6-1	6-3	6-4	6-6	6-7	6-9	6-10	7-0
350.00	6-9	6-11	7-1	7-2	7-4	7-6	7-8	7-10	7-11	8-1
375.00	7-9	7-11	8-1	8-3	8-5	8-7	8-9	8-11	9-1	9-3
400.00	8-10	9-0	9-3	9-5	9-7	9-10	10-0	10-2	10-5	10-7
425.00	9-11	10-2	10-5	10-8	10-10	11-1	11-3	11-6	11-9	11-11
450.00	11-2	11-5	11-8	11-11	12-2	12-5	12-8	12-11	13-2	13-5
475.00	12-5	12-9	13-0	13-3	13-7	13-10	14-1	14-5	14-8	14-11
500.00	13-9	14-1	14-5	14-9	15-0	15-4	15-8	15-11	16-3	16-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.24

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	---	---	---	---	---	---	---	---	---	---
250.00	3-7	3-8	3-8	3-9	3-9	3-10	3-11	3-11	4-0	4-1
275.00	4-4	4-5	4-6	4-6	4-7	4-8	4-9	4-9	4-10	4-11
300.00	5-2	5-3	5-4	5-5	5-5	5-6	5-7	5-8	5-9	5-10
325.00	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-10
350.00	7-0	7-1	7-3	7-4	7-5	7-6	7-8	7-9	7-10	7-11
375.00	8-1	8-2	8-4	8-5	8-6	8-8	8-9	8-11	9-0	9-1
400.00	9-2	9-4	9-5	9-7	9-8	9-10	10-0	10-1	10-3	10-4
425.00	10-4	10-6	10-8	10-10	11-0	11-1	11-3	11-5	11-7	11-8
450.00	11-7	11-9	11-11	12-1	12-3	12-5	12-8	12-10	13-0	13-1
475.00	12-11	13-1	13-4	13-6	13-8	13-11	14-1	14-3	14-5	14-8
500.00	14-4	14-6	14-9	15-0	15-2	15-5	15-7	15-10	16-0	16-2
525.00	15-10	16-0	16-3	16-6	16-9	17-0	17-2	17-5	17-8	17-10
550.00	17-4	17-7	17-10	18-1	18-4	18-7	18-10	19-1	19-4	19-7
575.00	18-11	19-3	19-6	19-10	20-1	20-4	20-8	20-11	21-2	21-5
600.00	20-8	20-11	21-3	21-7	21-10	22-2	22-6	22-9	23-1	23-4
625.00	22-5	22-9	23-1	23-5	23-9	24-1	24-5	24-8	25-0	25-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	---	---	---	---	---	---	---	---	---	---
250.00	3-7	3-8	3-8	3-9	3-10	3-10	3-11	4-0	4-0	4-1
275.00	4-4	4-5	4-6	4-7	4-7	4-8	4-9	4-10	4-10	4-11
300.00	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-8	5-9	5-10
325.00	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-10
350.00	7-1	7-2	7-3	7-4	7-6	7-7	7-8	7-9	7-10	8-0
375.00	8-1	8-3	8-4	8-5	8-7	8-8	8-10	8-11	9-0	9-2
400.00	9-2	9-4	9-6	9-7	9-9	9-11	10-0	10-2	10-3	10-5
425.00	10-5	10-7	10-8	10-10	11-0	11-2	11-4	11-6	11-7	11-9
450.00	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-10	13-0	13-2
475.00	13-0	13-2	13-5	13-7	13-9	13-11	14-2	14-4	14-6	14-8
500.00	14-5	14-7	14-10	15-0	15-3	15-5	15-8	15-10	16-1	16-3
525.00	15-10	16-1	16-4	16-7	16-10	17-1	17-3	17-6	17-9	17-11
550.00	17-5	17-8	17-11	18-2	18-5	18-8	19-0	19-2	19-5	19-8
575.00	19-0	19-4	19-7	19-11	20-2	20-5	20-9	21-0	21-3	21-6
600.00	20-9	21-1	21-4	21-8	22-0	22-3	22-7	22-10	23-2	23-5
625.00	22-6	22-10	23-2	23-6	23-10	24-2	24-6	24-10	25-2	25-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.25

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.988	2.49	1000	2.49	1000*
0	0	0	0	0.629	2.18	361	2.16	365
30	0	0	0	0.629	2.36	333	2.34	336
40	0	0	0	0.629	2.42	326	2.40	328
50	0	0	0	0.629	2.48	318	2.46	320
60	0	0	0	0.629	2.53	311	2.52	313
70	0	0	0	0.629	2.59	305	2.58	306
80	0	0	0	0.629	2.64	298	2.63	300
90	0	0	0	0.629	2.70	293	2.69	294
100	0	0	0	0.629	2.75	287	2.74	288
110	0	0	0	0.629	2.80	282	2.78	283
120	0	0	0	0.629	2.85	277	2.83	279
130	0	0	0	0.629	2.89	273	2.87	274
167	0	0	0	0.629	3.06	258	3.04	260
212	0	0	0	0.629	3.24	243	3.23	245

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.988	10.04	1000	10.04	1000*
0	0	0	0	0.629	9.73	326	9.71	327
30	0	0	0	0.629	9.91	321	9.89	321
40	0	0	0	0.629	9.97	319	9.95	319
50	0	0	0	0.629	10.03	317	10.01	317
60	0	0	0	0.629	10.08	315	10.07	316
70	0	0	0	0.629	10.14	313	10.13	314
80	0	0	0	0.629	10.20	312	10.19	312
90	0	0	0	0.629	10.26	310	10.25	310
100	0	0	0	0.629	10.31	308	10.30	308
110	0	0	0	0.629	10.37	306	10.36	307
120	0	0	0	0.629	10.43	305	10.41	305
130	0	0	0	0.629	10.48	303	10.46	304
167	0	0	0	0.629	10.67	298	10.65	299
212	0	0	0	0.629	10.89	292	10.87	293

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.26

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.988	22.88	1000	22.88	1000*
0	0	0	0	0.629	22.57	321	22.55	321
30	0	0	0	0.629	22.75	318	22.73	318
40	0	0	0	0.629	22.81	317	22.79	318
50	0	0	0	0.629	22.87	317	22.85	317
60	0	0	0	0.629	22.93	316	22.91	316
70	0	0	0	0.629	22.99	315	22.97	315
80	0	0	0	0.629	23.05	314	23.03	314
90	0	0	0	0.629	23.10	314	23.09	314
100	0	0	0	0.629	23.16	313	23.15	313
110	0	0	0	0.629	23.22	312	23.21	312
120	0	0	0	0.629	23.28	311	23.26	312
130	0	0	0	0.629	23.33	311	23.31	311
167	0	0	0	0.629	23.53	308	23.51	308
212	0	0	0	0.629	23.76	305	23.74	306

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.988	41.47	1000	41.47	1000*
0	0	0	0	0.629	41.16	319	41.14	319
30	0	0	0	0.629	41.34	317	41.32	318
40	0	0	0	0.629	41.40	317	41.38	317
50	0	0	0	0.629	41.46	317	41.44	317
60	0	0	0	0.629	41.52	316	41.50	316
70	0	0	0	0.629	41.57	316	41.56	316
80	0	0	0	0.629	41.63	315	41.62	315
90	0	0	0	0.629	41.69	315	41.68	315
100	0	0	0	0.629	41.75	314	41.74	315
110	0	0	0	0.629	41.81	314	41.79	314
120	0	0	0	0.629	41.87	314	41.85	314
130	0	0	0	0.629	41.92	313	41.90	313
167	0	0	0	0.629	42.12	312	42.10	312
212	0	0	0	0.629	42.36	310	42.34	311

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.27

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.988	66.54	1000	66.54	1000*
0	0	0	0	0.629	66.23	318	66.21	318
30	0	0	0	0.629	66.41	317	66.39	317
40	0	0	0	0.629	66.47	317	66.45	317
50	0	0	0	0.629	66.53	316	66.51	317
60	0	0	0	0.629	66.59	316	66.57	316
70	0	0	0	0.629	66.65	316	66.63	316
80	0	0	0	0.629	66.70	316	66.69	316
90	0	0	0	0.629	66.76	316	66.75	316
100	0	0	0	0.629	66.82	315	66.81	315
110	0	0	0	0.629	66.88	315	66.87	315
120	0	0	0	0.629	66.94	315	66.92	315
130	0	0	0	0.629	66.99	315	66.97	315
167	0	0	0	0.629	67.19	314	67.17	314
212	0	0	0	0.629	67.43	313	67.41	313

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-4	1-4	1-5	1-5	1-5	1-6	1-6	1-6	1-7
100.00	2-3	2-4	2-5	2-6	2-6	2-7	2-8	2-8	2-9	2-9
125.00	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4
150.00	5-2	5-3	5-5	5-7	5-8	5-10	5-11	6-1	6-2	6-3
175.00	7-0	7-2	7-4	7-7	7-9	7-11	8-1	8-3	8-5	8-7
200.00	9-2	9-5	9-8	9-10	10-1	10-4	10-7	10-9	11-0	11-2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-4	1-4	1-4	1-5	1-5	1-5	1-6	1-6	1-7	1-7
100.00	2-4	2-4	2-5	2-6	2-6	2-7	2-8	2-8	2-9	2-10
125.00	3-7	3-8	3-9	3-10	4-0	4-1	4-2	4-3	4-4	4-5
150.00	5-2	5-4	5-5	5-7	5-8	5-10	5-11	6-1	6-2	6-4
175.00	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-7
200.00	9-3	9-6	9-8	9-11	10-2	10-5	10-7	10-10	11-0	11-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-5	2-6	2-6	2-6	2-6	2-6	2-6	2-7	2-7	2-7
125.00	3-10	3-10	3-11	3-11	3-11	3-11	4-0	4-0	4-0	4-0
150.00	5-6	5-7	5-7	5-7	5-8	5-8	5-9	5-9	5-9	5-10
175.00	7-6	7-7	7-7	7-8	7-8	7-9	7-10	7-10	7-11	7-11
200.00	9-10	9-11	9-11	10-0	10-1	10-2	10-2	10-3	10-4	10-4
225.00	12-5	12-6	12-7	12-8	12-9	12-10	12-11	13-0	13-1	13-1
250.00	15-5	15-6	15-7	15-8	15-9	15-10	15-11	16-0	16-2	16-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-5	2-6	2-6	2-6	2-6	2-6	2-7	2-7	2-7	2-7
125.00	3-10	3-10	3-11	3-11	3-11	3-11	4-0	4-0	4-0	4-1
150.00	5-6	5-7	5-7	5-8	5-8	5-8	5-9	5-9	5-10	5-10
175.00	7-6	7-7	7-7	7-8	7-9	7-9	7-10	7-10	7-11	7-11
200.00	9-10	9-11	10-0	10-0	10-1	10-2	10-2	10-3	10-4	10-4
225.00	12-6	12-7	12-8	12-8	12-9	12-10	12-11	13-0	13-1	13-2
250.00	15-5	15-6	15-7	15-8	15-9	15-11	16-0	16-1	16-2	16-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.30

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-8	5-8	5-8	5-8	5-8	5-9	5-9	5-9	5-9	5-9
175.00	7-8	7-8	7-9	7-9	7-9	7-9	7-10	7-10	7-10	7-10
200.00	10-0	10-1	10-1	10-1	10-2	10-2	10-2	10-3	10-3	10-3
225.00	12-9	12-9	12-9	12-10	12-10	12-11	12-11	12-11	13-0	13-0
250.00	15-8	15-9	15-9	15-10	15-10	15-11	15-11	16-0	16-0	16-1
275.00	19-0	19-1	19-2	19-2	19-3	19-3	19-4	19-5	19-5	19-6
300.00	22-8	22-9	22-10	22-10	22-11	23-0	23-0	23-1	23-2	23-2
325.00	26-8	26-9	26-9	26-10	26-11	27-0	27-1	27-2	27-3	27-3
350.00	30-11	31-0	31-1	31-2	31-3	31-4	31-5	31-6	31-7	31-8
375.00	35-7	35-8	35-9	35-10	35-11	36-1	36-2	36-3	36-4	36-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-8	5-8	5-8	5-8	5-8	5-9	5-9	5-9	5-9	5-9
175.00	7-8	7-8	7-9	7-9	7-9	7-9	7-10	7-10	7-10	7-10
200.00	10-1	10-1	10-1	10-1	10-2	10-2	10-2	10-3	10-3	10-3
225.00	12-9	12-9	12-9	12-10	12-10	12-11	12-11	12-11	13-0	13-0
250.00	15-9	15-9	15-10	15-10	15-11	15-11	16-0	16-0	16-1	16-1
275.00	19-1	19-1	19-2	19-2	19-3	19-4	19-4	19-5	19-5	19-6
300.00	22-8	22-9	22-10	22-10	22-11	23-0	23-1	23-1	23-2	23-3
325.00	26-8	26-9	26-10	26-11	26-11	27-0	27-1	27-2	27-3	27-3
350.00	31-0	31-1	31-2	31-3	31-4	31-5	31-5	31-6	31-7	31-8
375.00	35-7	35-8	35-10	35-11	36-0	36-1	36-2	36-3	36-4	36-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.31

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-3	10-3	10-3	10-3	10-3	10-3	10-4	10-4	10-4	10-4
225.00	12-11	12-11	13-0	13-0	13-0	13-0	13-1	13-1	13-1	13-1
250.00	16-0	16-0	16-0	16-1	16-1	16-1	16-1	16-2	16-2	16-2
275.00	19-4	19-5	19-5	19-5	19-6	19-6	19-6	19-7	19-7	19-7
300.00	23-1	23-1	23-2	23-2	23-2	23-3	23-3	23-4	23-4	23-4
325.00	27-1	27-2	27-2	27-3	27-3	27-4	27-4	27-5	27-5	27-6
350.00	31-6	31-6	31-7	31-7	31-8	31-9	31-9	31-10	31-10	31-11
375.00	36-2	36-3	36-4	36-4	36-5	36-6	36-6	36-7	36-7	36-8
400.00	41-3	41-4	41-5	41-5	41-6	41-7	41-7	41-8	41-9	41-10
425.00	46-8	46-9	46-10	46-10	46-11	47-0	47-1	47-2	47-2	47-3
450.00	52-5	52-6	52-7	52-8	52-9	52-10	52-10	52-11	53-0	53-1
475.00	58-6	58-7	58-8	58-9	58-10	58-11	59-0	59-1	59-2	59-3
500.00	65-0	65-1	65-2	65-3	65-4	65-5	65-7	65-8	65-9	65-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-3	10-3	10-3	10-3	10-3	10-3	10-4	10-4	10-4	10-4
225.00	12-11	12-11	13-0	13-0	13-0	13-0	13-1	13-1	13-1	13-1
250.00	16-0	16-0	16-0	16-1	16-1	16-1	16-1	16-2	16-2	16-2
275.00	19-4	19-5	19-5	19-5	19-6	19-6	19-6	19-7	19-7	19-7
300.00	23-1	23-1	23-2	23-2	23-3	23-3	23-3	23-4	23-4	23-4
325.00	27-1	27-2	27-2	27-3	27-3	27-4	27-4	27-5	27-5	27-6
350.00	31-6	31-7	31-7	31-8	31-8	31-9	31-9	31-10	31-10	31-11
375.00	36-3	36-3	36-4	36-4	36-5	36-6	36-6	36-7	36-8	36-8
400.00	41-3	41-4	41-5	41-5	41-6	41-7	41-8	41-8	41-9	41-10
425.00	46-8	46-9	46-10	46-11	46-11	47-0	47-1	47-2	47-3	47-3
450.00	52-5	52-6	52-7	52-8	52-9	52-10	52-11	53-0	53-0	53-1
475.00	58-6	58-7	58-9	58-10	58-11	59-0	59-1	59-2	59-3	59-4
500.00	65-0	65-1	65-2	65-3	65-5	65-6	65-7	65-8	65-9	65-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.32

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	16-4	16-4	16-4	16-4	16-4	16-5	16-5	16-5	16-5	16-5
275.00	19-9	19-9	19-9	19-10	19-10	19-10	19-10	19-11	19-11	19-11
300.00	23-6	23-7	23-7	23-7	23-7	23-8	23-8	23-8	23-8	23-9
325.00	27-8	27-8	27-9	27-9	27-9	27-9	27-10	27-10	27-10	27-11
350.00	32-2	32-2	32-2	32-3	32-3	32-3	32-4	32-4	32-4	32-5
375.00	36-11	37-0	37-0	37-1	37-1	37-1	37-2	37-2	37-3	37-3
400.00	42-1	42-2	42-2	42-3	42-3	42-4	42-4	42-4	42-5	42-5
425.00	47-8	47-8	47-9	47-9	47-10	47-10	47-11	47-11	48-0	48-0
450.00	53-6	53-7	53-7	53-8	53-8	53-9	53-9	53-10	53-11	53-11
475.00	59-9	59-9	59-10	59-11	59-11	60-0	60-1	60-1	60-2	60-3
500.00	66-4	66-5	66-5	66-6	66-7	66-8	66-8	66-9	66-10	66-10
525.00	73-4	73-4	73-5	73-6	73-7	73-8	73-8	73-9	73-10	73-11
550.00	80-8	80-9	80-9	80-10	80-11	81-0	81-1	81-2	81-3	81-4
575.00	88-4	88-5	88-6	88-7	88-8	88-9	88-10	88-11	89-0	89-1
600.00	96-5	96-7	96-8	96-9	96-10	96-11	97-0	97-1	97-2	97-3
625.00	104-11	105-1	105-2	105-3	105-4	105-5	105-6	105-8	105-9	105-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	16-4	16-4	16-4	16-4	16-4	16-5	16-5	16-5	16-5	16-5
275.00	19-9	19-9	19-10	19-10	19-10	19-10	19-10	19-11	19-11	19-11
300.00	23-7	23-7	23-7	23-7	23-8	23-8	23-8	23-8	23-9	23-9
325.00	27-8	27-8	27-9	27-9	27-9	27-10	27-10	27-10	27-10	27-11
350.00	32-2	32-2	32-2	32-3	32-3	32-3	32-4	32-4	32-4	32-5
375.00	37-0	37-0	37-0	37-1	37-1	37-1	37-2	37-2	37-3	37-3
400.00	42-1	42-2	42-2	42-3	42-3	42-4	42-4	42-5	42-5	42-5
425.00	47-8	47-8	47-9	47-9	47-10	47-10	47-11	47-11	48-0	48-0
450.00	53-6	53-7	53-7	53-8	53-8	53-9	53-10	53-10	53-11	53-11
475.00	59-9	59-10	59-10	59-11	60-0	60-0	60-1	60-1	60-2	60-3
500.00	66-4	66-5	66-6	66-6	66-7	66-8	66-8	66-9	66-10	66-11
525.00	73-4	73-5	73-5	73-6	73-7	73-8	73-9	73-9	73-10	73-11
550.00	80-8	80-9	80-10	80-11	80-11	81-0	81-1	81-2	81-3	81-4
575.00	88-5	88-6	88-7	88-7	88-8	88-9	88-10	88-11	89-0	89-1
600.00	96-6	96-7	96-8	96-9	96-10	96-11	97-0	97-1	97-2	97-3
625.00	105-0	105-1	105-2	105-3	105-4	105-6	105-7	105-8	105-9	105-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.33

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.988	1.66	1500	1.66	1500*
0	0	0	0	0.629	1.04	759	1.01	781
30	0	0	0	0.629	1.28	615	1.24	632
40	0	0	0	0.629	1.36	579	1.33	594
50	0	0	0	0.629	1.44	547	1.41	560
60	0	0	0	0.629	1.52	518	1.48	530
70	0	0	0	0.629	1.59	494	1.56	504
80	0	0	0	0.629	1.67	471	1.64	480
90	0	0	0	0.629	1.74	452	1.72	459
100	0	0	0	0.629	1.82	434	1.79	440
110	0	0	0	0.629	1.89	418	1.86	423
120	0	0	0	0.629	1.95	403	1.93	409
130	0	0	0	0.629	2.02	390	1.99	397
167	0	0	0	0.629	2.23	353	2.20	358
212	0	0	0	0.629	2.47	319	2.44	323

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.988	6.66	1500	6.66	1500*
0	0	0	0	0.629	5.96	530	5.91	534
30	0	0	0	0.629	6.23	507	6.19	510
40	0	0	0	0.629	6.32	500	6.28	503
50	0	0	0	0.629	6.41	493	6.37	496
60	0	0	0	0.629	6.50	486	6.46	489
70	0	0	0	0.629	6.58	480	6.55	482
80	0	0	0	0.629	6.67	474	6.63	476
90	0	0	0	0.629	6.75	468	6.72	470
100	0	0	0	0.629	6.84	462	6.81	464
110	0	0	0	0.629	6.92	457	6.89	459
120	0	0	0	0.629	7.00	451	6.97	453
130	0	0	0	0.629	7.08	446	7.05	448
167	0	0	0	0.629	7.35	430	7.31	432
212	0	0	0	0.629	7.67	413	7.63	415

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.988	15.06	1500	15.06	1500*
0	0	0	0	0.629	14.36	497	14.31	499
30	0	0	0	0.629	14.63	488	14.59	490
40	0	0	0	0.629	14.72	485	14.68	487
50	0	0	0	0.629	14.81	483	14.77	484
60	0	0	0	0.629	14.90	480	14.86	481
70	0	0	0	0.629	14.98	477	14.95	478
80	0	0	0	0.629	15.07	474	15.04	475
90	0	0	0	0.629	15.16	472	15.13	473
100	0	0	0	0.629	15.25	469	15.21	470
110	0	0	0	0.629	15.33	466	15.30	467
120	0	0	0	0.629	15.42	464	15.39	465
130	0	0	0	0.629	15.50	461	15.47	462
167	0	0	0	0.629	15.79	453	15.75	454
212	0	0	0	0.629	16.13	444	16.09	445

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.988	26.99	1500	26.99	1500*
0	0	0	0	0.629	26.29	487	26.24	488
30	0	0	0	0.629	26.56	482	26.51	483
40	0	0	0	0.629	26.65	481	26.60	481
50	0	0	0	0.629	26.73	479	26.69	480
60	0	0	0	0.629	26.82	477	26.78	478
70	0	0	0	0.629	26.91	476	26.87	477
80	0	0	0	0.629	27.00	474	26.96	475
90	0	0	0	0.629	27.09	473	27.05	474
100	0	0	0	0.629	27.18	471	27.14	472
110	0	0	0	0.629	27.26	470	27.23	471
120	0	0	0	0.629	27.35	469	27.32	469
130	0	0	0	0.629	27.44	467	27.40	468
167	0	0	0	0.629	27.73	462	27.69	463
212	0	0	0	0.629	28.09	457	28.04	457

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.35

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Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.988	42.62	1500	42.62	1500*
0	0	0	0	0.629	41.92	482	41.87	483
30	0	0	0	0.629	42.19	479	42.14	480
40	0	0	0	0.629	42.28	478	42.23	479
50	0	0	0	0.629	42.37	477	42.32	478
60	0	0	0	0.629	42.45	476	42.41	477
70	0	0	0	0.629	42.54	475	42.50	476
80	0	0	0	0.629	42.63	475	42.59	475
90	0	0	0	0.629	42.72	474	42.69	474
100	0	0	0	0.629	42.81	473	42.78	473
110	0	0	0	0.629	42.90	472	42.87	472
120	0	0	0	0.629	42.98	471	42.96	471
130	0	0	0	0.629	43.07	470	43.04	470
167	0	0	0	0.629	43.37	467	43.33	467
212	0	0	0	0.629	43.73	463	43.69	464

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.36

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1
100.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10
125.00	1-10	1-11	2-1	2-2	2-4	2-5	2-7	2-8	2-10	2-11
150.00	2-7	2-10	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2
175.00	3-7	3-10	4-1	4-4	4-7	4-9	5-0	5-3	5-6	5-8
200.00	4-8	5-0	5-4	5-8	5-11	6-3	6-7	6-10	7-2	7-5

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1
100.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
125.00	1-10	2-0	2-1	2-3	2-4	2-6	2-7	2-9	2-10	2-11
150.00	2-8	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-3
175.00	3-8	3-11	4-2	4-5	4-8	4-11	5-1	5-4	5-7	5-9
200.00	4-10	5-1	5-5	5-9	6-1	6-5	6-8	7-0	7-3	7-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.37

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-7	1-7	1-7	1-7	1-8	1-8	1-8	1-8	1-9
125.00	2-5	2-5	2-5	2-6	2-6	2-7	2-7	2-7	2-8	2-8
150.00	3-5	3-6	3-6	3-7	3-8	3-8	3-9	3-9	3-10	3-10
175.00	4-8	4-9	4-10	4-10	4-11	5-0	5-1	5-2	5-3	5-3
200.00	6-1	6-2	6-3	6-4	6-6	6-7	6-8	6-9	6-10	6-11
225.00	7-9	7-10	7-11	8-1	8-2	8-3	8-5	8-6	8-7	8-9
250.00	9-6	9-8	9-10	10-0	10-1	10-3	10-4	10-6	10-8	10-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-7	1-7	1-7	1-7	1-8	1-8	1-8	1-8	1-9
125.00	2-5	2-5	2-6	2-6	2-6	2-7	2-7	2-8	2-8	2-8
150.00	3-5	3-6	3-7	3-7	3-8	3-8	3-9	3-10	3-10	3-11
175.00	4-8	4-9	4-10	4-11	5-0	5-0	5-1	5-2	5-3	5-4
200.00	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11
225.00	7-9	7-11	8-0	8-1	8-3	8-4	8-5	8-7	8-8	8-9
250.00	9-7	9-9	9-11	10-0	10-2	10-4	10-5	10-7	10-8	10-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.38

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-7	3-8	3-8	3-8	3-8	3-9	3-9	3-9	3-10	3-10
175.00	4-11	4-11	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-2
200.00	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-9	6-9	6-9
225.00	8-2	8-2	8-3	8-4	8-4	8-5	8-5	8-6	8-7	8-7
250.00	10-1	10-1	10-2	10-3	10-4	10-4	10-5	10-6	10-7	10-7
275.00	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-8	12-9	12-10
300.00	14-6	14-7	14-8	14-9	14-10	14-11	15-0	15-2	15-3	15-4
325.00	17-0	17-2	17-3	17-4	17-5	17-7	17-8	17-9	17-10	18-0
350.00	19-9	19-11	20-0	20-1	20-3	20-4	20-6	20-7	20-9	20-10
375.00	22-8	22-10	23-0	23-1	23-3	23-5	23-6	23-8	23-10	23-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-8	3-8	3-8	3-8	3-9	3-9	3-9	3-9	3-10	3-10
175.00	4-11	5-0	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-2
200.00	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-9	6-9	6-10
225.00	8-2	8-3	8-3	8-4	8-4	8-5	8-6	8-6	8-7	8-7
250.00	10-1	10-2	10-3	10-3	10-4	10-5	10-5	10-6	10-7	10-8
275.00	12-3	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11
300.00	14-6	14-8	14-9	14-10	14-11	15-0	15-1	15-2	15-3	15-4
325.00	17-1	17-2	17-3	17-5	17-6	17-7	17-8	17-10	17-11	18-0
350.00	19-10	19-11	20-1	20-2	20-4	20-5	20-6	20-8	20-9	20-11
375.00	22-9	22-11	23-0	23-2	23-4	23-5	23-7	23-9	23-10	24-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.39

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-7	6-7	6-7	6-8	6-8	6-8	6-9	6-9	6-9	6-9
225.00	8-4	8-4	8-5	8-5	8-5	8-6	8-6	8-6	8-7	8-7
250.00	10-3	10-4	10-4	10-5	10-5	10-6	10-6	10-6	10-7	10-7
275.00	12-5	12-6	12-6	12-7	12-7	12-8	12-8	12-9	12-9	12-10
300.00	14-10	14-11	14-11	15-0	15-0	15-1	15-2	15-2	15-3	15-3
325.00	17-5	17-6	17-6	17-7	17-8	17-8	17-9	17-10	17-11	17-11
350.00	20-2	20-3	20-4	20-5	20-6	20-7	20-7	20-8	20-9	20-10
375.00	23-2	23-3	23-4	23-5	23-6	23-7	23-8	23-9	23-10	23-11
400.00	26-5	26-6	26-7	26-8	26-9	26-10	27-0	27-1	27-2	27-3
425.00	29-10	29-11	30-1	30-2	30-3	30-4	30-6	30-7	30-8	30-9
450.00	33-6	33-7	33-9	33-10	33-11	34-1	34-2	34-4	34-5	34-6
475.00	37-4	37-6	37-7	37-9	37-10	38-0	38-1	38-3	38-4	38-6
500.00	41-5	41-7	41-8	41-10	42-0	42-2	42-3	42-5	42-7	42-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-7	6-7	6-8	6-8	6-8	6-8	6-9	6-9	6-9	6-9
225.00	8-4	8-4	8-5	8-5	8-5	8-6	8-6	8-6	8-7	8-7
250.00	10-4	10-4	10-4	10-5	10-5	10-6	10-6	10-7	10-7	10-7
275.00	12-6	12-6	12-7	12-7	12-8	12-8	12-9	12-9	12-10	12-10
300.00	14-10	14-11	14-11	15-0	15-1	15-1	15-2	15-2	15-3	15-4
325.00	17-5	17-6	17-7	17-7	17-8	17-9	17-9	17-10	17-11	18-0
350.00	20-3	20-4	20-4	20-5	20-6	20-7	20-8	20-9	20-9	20-10
375.00	23-3	23-4	23-5	23-6	23-7	23-8	23-9	23-9	23-10	23-11
400.00	26-6	26-7	26-8	26-9	26-10	26-11	27-0	27-1	27-2	27-3
425.00	29-11	30-0	30-1	30-2	30-4	30-5	30-6	30-7	30-8	30-10
450.00	33-7	33-8	33-9	33-11	34-0	34-1	34-3	34-4	34-5	34-7
475.00	37-5	37-6	37-8	37-9	37-11	38-1	38-2	38-4	38-5	38-6
500.00	41-6	41-8	41-9	41-11	42-1	42-2	42-4	42-6	42-7	42-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.40

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-5	10-6	10-6	10-6	10-6	10-7	10-7	10-7	10-7	10-8
275.00	12-8	12-8	12-8	12-9	12-9	12-9	12-10	12-10	12-10	12-11
300.00	15-1	15-1	15-1	15-2	15-2	15-3	15-3	15-3	15-4	15-4
325.00	17-8	17-9	17-9	17-9	17-10	17-10	17-11	17-11	18-0	18-0
350.00	20-6	20-7	20-7	20-8	20-8	20-9	20-9	20-10	20-10	20-11
375.00	23-7	23-7	23-8	23-9	23-9	23-10	23-10	23-11	24-0	24-0
400.00	26-10	26-11	26-11	27-0	27-1	27-1	27-2	27-3	27-3	27-4
425.00	30-4	30-4	30-5	30-6	30-7	30-8	30-8	30-9	30-10	30-11
450.00	34-0	34-1	34-2	34-3	34-4	34-4	34-5	34-6	34-7	34-8
475.00	37-11	38-0	38-1	38-2	38-3	38-4	38-5	38-6	38-7	38-8
500.00	42-1	42-2	42-3	42-4	42-5	42-6	42-7	42-8	42-9	42-10
525.00	46-5	46-6	46-7	46-8	46-10	46-11	47-0	47-1	47-2	47-4
550.00	51-0	51-1	51-2	51-4	51-5	51-6	51-8	51-9	51-10	52-0
575.00	55-9	55-11	56-0	56-2	56-3	56-5	56-6	56-7	56-9	56-10
600.00	60-10	60-11	61-1	61-2	61-4	61-6	61-7	61-9	61-10	62-0
625.00	66-1	66-2	66-4	66-6	66-7	66-9	66-11	67-1	67-2	67-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-5	10-6	10-6	10-6	10-6	10-7	10-7	10-7	10-8	10-8
275.00	12-8	12-8	12-8	12-9	12-9	12-9	12-10	12-10	12-10	12-11
300.00	15-1	15-1	15-2	15-2	15-2	15-3	15-3	15-3	15-4	15-4
325.00	17-8	17-9	17-9	17-10	17-10	17-11	17-11	17-11	18-0	18-0
350.00	20-6	20-7	20-7	20-8	20-8	20-9	20-9	20-10	20-10	20-11
375.00	23-7	23-8	23-8	23-9	23-9	23-10	23-11	23-11	24-0	24-0
400.00	26-10	26-11	27-0	27-0	27-1	27-2	27-2	27-3	27-4	27-4
425.00	30-4	30-5	30-6	30-6	30-7	30-8	30-9	30-9	30-10	30-11
450.00	34-0	34-1	34-2	34-3	34-4	34-5	34-6	34-6	34-7	34-8
475.00	38-0	38-0	38-1	38-2	38-3	38-4	38-5	38-6	38-7	38-8
500.00	42-1	42-2	42-3	42-4	42-5	42-7	42-8	42-9	42-10	42-11
525.00	46-5	46-7	46-8	46-9	46-10	46-11	47-1	47-2	47-3	47-4
550.00	51-0	51-2	51-3	51-4	51-6	51-7	51-8	51-10	51-11	52-0
575.00	55-10	56-0	56-1	56-2	56-4	56-5	56-7	56-8	56-9	56-11
600.00	60-10	61-0	61-2	61-3	61-5	61-6	61-8	61-9	61-11	62-0
625.00	66-1	66-3	66-5	66-7	66-8	66-10	67-0	67-1	67-3	67-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.41

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.988	1.24	2000	1.24	2000*
0	0	0	0	0.629	0.54	1447	0.53	1480
30	0	0	0	0.629	0.69	1136	0.67	1180
40	0	0	0	0.629	0.75	1044	0.72	1088
50	0	0	0	0.629	0.82	960	0.78	1003
60	0	0	0	0.629	0.89	883	0.85	924
70	0	0	0	0.629	0.97	814	0.92	852
80	0	0	0	0.629	1.04	753	1.00	787
90	0	0	0	0.629	1.12	699	1.08	729
100	0	0	0	0.629	1.21	652	1.16	678
110	0	0	0	0.629	1.29	611	1.24	634
120	0	0	0	0.629	1.37	575	1.32	595
130	0	0	0	0.629	1.45	544	1.40	560
167	0	0	0	0.629	1.71	462	1.66	475
212	0	0	0	0.629	1.99	396	1.94	406

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.988	4.98	2000	4.98	2000*
0	0	0	0	0.629	3.78	834	3.70	851
30	0	0	0	0.629	4.14	761	4.06	775
40	0	0	0	0.629	4.26	740	4.18	753
50	0	0	0	0.629	4.38	720	4.30	732
60	0	0	0	0.629	4.49	702	4.42	713
70	0	0	0	0.629	4.60	685	4.53	695
80	0	0	0	0.629	4.71	669	4.65	678
90	0	0	0	0.629	4.82	653	4.76	662
100	0	0	0	0.629	4.93	639	4.87	647
110	0	0	0	0.629	5.04	626	4.98	633
120	0	0	0	0.629	5.14	613	5.09	620
130	0	0	0	0.629	5.25	601	5.19	607
167	0	0	0	0.629	5.60	564	5.54	570
212	0	0	0	0.629	5.99	527	5.93	532

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.42

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.988	11.24	2000	11.24	2000*
0	0	0	0	0.629	10.00	710	9.92	717
30	0	0	0	0.629	10.37	686	10.29	691
40	0	0	0	0.629	10.49	678	10.41	683
50	0	0	0	0.629	10.61	670	10.53	675
60	0	0	0	0.629	10.73	663	10.65	668
70	0	0	0	0.629	10.85	656	10.77	660
80	0	0	0	0.629	10.96	649	10.89	653
90	0	0	0	0.629	11.08	642	11.01	646
100	0	0	0	0.629	11.19	636	11.13	640
110	0	0	0	0.629	11.31	629	11.24	633
120	0	0	0	0.629	11.42	623	11.36	627
130	0	0	0	0.629	11.53	617	11.47	621
167	0	0	0	0.629	11.91	598	11.85	601
212	0	0	0	0.629	12.35	577	12.28	580

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.988	20.08	2000	20.08	2000*
0	0	0	0	0.629	18.83	674	18.75	677
30	0	0	0	0.629	19.20	661	19.12	664
40	0	0	0	0.629	19.32	657	19.24	660
50	0	0	0	0.629	19.44	653	19.36	656
60	0	0	0	0.629	19.56	649	19.48	652
70	0	0	0	0.629	19.67	646	19.60	648
80	0	0	0	0.629	19.79	642	19.72	644
90	0	0	0	0.629	19.91	638	19.84	640
100	0	0	0	0.629	20.02	635	19.96	637
110	0	0	0	0.629	20.14	631	20.07	633
120	0	0	0	0.629	20.26	627	20.19	629
130	0	0	0	0.629	20.37	624	20.31	626
167	0	0	0	0.629	20.77	612	20.71	614
212	0	0	0	0.629	21.22	599	21.16	601

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.43

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Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.988	31.55	2000	31.55	2000*
0	0	0	0	0.629	30.31	658	30.22	660
30	0	0	0	0.629	30.67	651	30.59	652
40	0	0	0	0.629	30.79	648	30.71	650
50	0	0	0	0.629	30.91	646	30.83	647
60	0	0	0	0.629	31.03	643	30.95	645
70	0	0	0	0.629	31.15	641	31.07	642
80	0	0	0	0.629	31.27	639	31.19	640
90	0	0	0	0.629	31.38	636	31.31	638
100	0	0	0	0.629	31.50	634	31.43	635
110	0	0	0	0.629	31.62	632	31.55	633
120	0	0	0	0.629	31.73	629	31.67	631
130	0	0	0	0.629	31.85	627	31.79	628
167	0	0	0	0.629	32.26	620	32.19	621
212	0	0	0	0.629	32.72	611	32.66	612

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.44

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8
100.00	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3
125.00	1-0	1-0	1-2	1-3	1-4	1-5	1-7	1-8	1-10	1-11
150.00	1-5	1-6	1-8	1-9	1-11	2-1	2-3	2-5	2-7	2-10
175.00	1-11	2-0	2-3	2-5	2-7	2-10	3-1	3-4	3-7	3-10
200.00	2-6	2-8	2-11	3-2	3-5	3-8	4-0	4-4	4-8	5-0

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9
100.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-3
125.00	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-0
150.00	1-5	1-7	1-8	1-10	2-0	2-2	2-4	2-6	2-9	2-11
175.00	1-11	2-1	2-4	2-6	2-9	3-0	3-2	3-5	3-8	3-11
200.00	2-7	2-9	3-0	3-3	3-7	3-10	4-2	4-6	4-10	5-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.45

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-0	1-1	1-1	1-1	1-2	1-2	1-2	1-3	1-3
125.00	1-6	1-7	1-8	1-8	1-9	1-9	1-10	1-10	1-11	1-11
150.00	2-3	2-3	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10
175.00	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9	3-10
200.00	3-11	4-1	4-2	4-4	4-5	4-6	4-8	4-9	4-10	5-0
225.00	5-0	5-2	5-4	5-5	5-7	5-9	5-11	6-0	6-2	6-4
250.00	6-2	6-4	6-6	6-9	6-11	7-1	7-3	7-5	7-7	7-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-0	1-1	1-1	1-1	1-2	1-2	1-2	1-3	1-3
125.00	1-7	1-7	1-8	1-9	1-9	1-10	1-10	1-11	1-11	2-0
150.00	2-3	2-4	2-5	2-6	2-6	2-7	2-8	2-9	2-9	2-10
175.00	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10
200.00	4-0	4-2	4-3	4-5	4-6	4-7	4-9	4-10	4-11	5-0
225.00	5-1	5-3	5-5	5-6	5-8	5-10	6-0	6-1	6-3	6-5
250.00	6-3	6-6	6-8	6-10	7-0	7-2	7-4	7-7	7-9	7-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.46

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-6	2-7	2-7	2-8	2-8	2-8	2-9	2-9	2-9	2-10
175.00	3-5	3-6	3-6	3-7	3-7	3-8	3-8	3-9	3-9	3-10
200.00	4-6	4-7	4-7	4-8	4-9	4-9	4-10	4-11	4-11	5-0
225.00	5-9	5-9	5-10	5-11	6-0	6-1	6-1	6-2	6-3	6-4
250.00	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10
275.00	8-6	8-8	8-9	8-10	8-11	9-1	9-2	9-3	9-4	9-5
300.00	10-2	10-3	10-5	10-6	10-8	10-9	10-11	11-0	11-2	11-3
325.00	11-11	12-1	12-3	12-4	12-6	12-8	12-9	12-11	13-1	13-2
350.00	13-10	14-0	14-2	14-4	14-6	14-8	14-10	15-0	15-2	15-4
375.00	15-11	16-1	16-3	16-6	16-8	16-10	17-0	17-3	17-5	17-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-7	2-7	2-7	2-8	2-8	2-8	2-9	2-9	2-10	2-10
175.00	3-6	3-6	3-7	3-7	3-8	3-8	3-9	3-9	3-10	3-10
200.00	4-7	4-7	4-8	4-9	4-9	4-10	4-10	4-11	5-0	5-0
225.00	5-9	5-10	5-11	6-0	6-0	6-1	6-2	6-3	6-3	6-4
250.00	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10
275.00	8-7	8-9	8-10	8-11	9-0	9-1	9-3	9-4	9-5	9-6
300.00	10-3	10-4	10-6	10-7	10-9	10-10	11-0	11-1	11-2	11-4
325.00	12-0	12-2	12-4	12-5	12-7	12-9	12-10	13-0	13-2	13-3
350.00	14-0	14-2	14-3	14-5	14-7	14-9	14-11	15-1	15-3	15-5
375.00	16-0	16-3	16-5	16-7	16-9	17-0	17-2	17-4	17-6	17-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.47

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-9	4-9	4-10	4-10	4-10	4-11	4-11	4-11	5-0	5-0
225.00	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4
250.00	7-5	7-5	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-10
275.00	9-0	9-0	9-1	9-2	9-2	9-3	9-4	9-4	9-5	9-6
300.00	10-8	10-9	10-10	10-10	10-11	11-0	11-1	11-2	11-3	11-3
325.00	12-6	12-7	12-8	12-9	12-10	12-11	13-0	13-1	13-2	13-3
350.00	14-6	14-7	14-9	14-10	14-11	15-0	15-1	15-2	15-3	15-4
375.00	16-8	16-10	16-11	17-0	17-1	17-3	17-4	17-5	17-6	17-8
400.00	19-0	19-1	19-3	19-4	19-6	19-7	19-9	19-10	19-11	20-1
425.00	21-5	21-7	21-9	21-10	22-0	22-2	22-3	22-5	22-6	22-8
450.00	24-1	24-3	24-4	24-6	24-8	24-10	25-0	25-2	25-3	25-5
475.00	26-10	27-0	27-2	27-4	27-6	27-8	27-10	28-0	28-2	28-4
500.00	29-9	29-11	30-1	30-4	30-6	30-8	30-10	31-1	31-3	31-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-9	4-9	4-10	4-10	4-11	4-11	4-11	5-0	5-0	5-0
225.00	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-3	6-4	6-4
250.00	7-5	7-6	7-6	7-7	7-7	7-8	7-9	7-9	7-10	7-10
275.00	9-0	9-1	9-1	9-2	9-3	9-3	9-4	9-5	9-5	9-6
300.00	10-9	10-9	10-10	10-11	11-0	11-1	11-1	11-2	11-3	11-4
325.00	12-7	12-8	12-9	12-10	12-11	13-0	13-1	13-2	13-2	13-3
350.00	14-7	14-8	14-9	14-10	15-0	15-1	15-2	15-3	15-4	15-5
375.00	16-9	16-10	17-0	17-1	17-2	17-3	17-5	17-6	17-7	17-8
400.00	19-1	19-2	19-4	19-5	19-7	19-8	19-10	19-11	20-0	20-2
425.00	21-7	21-8	21-10	21-11	22-1	22-3	22-4	22-6	22-7	22-9
450.00	24-2	24-4	24-6	24-7	24-9	24-11	25-1	25-3	25-4	25-6
475.00	26-11	27-1	27-3	27-5	27-7	27-9	27-11	28-1	28-3	28-5
500.00	29-10	30-1	30-3	30-5	30-7	30-10	31-0	31-2	31-4	31-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.48

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-7	7-7	7-8	7-8	7-9	7-9	7-9	7-10	7-10	7-10
275.00	9-2	9-3	9-3	9-4	9-4	9-4	9-5	9-5	9-6	9-6
300.00	10-11	11-0	11-0	11-1	11-1	11-2	11-2	11-3	11-3	11-4
325.00	12-10	12-11	12-11	13-0	13-0	13-1	13-2	13-2	13-3	13-3
350.00	14-11	14-11	15-0	15-1	15-2	15-2	15-3	15-4	15-4	15-5
375.00	17-1	17-2	17-3	17-4	17-4	17-5	17-6	17-7	17-8	17-8
400.00	19-6	19-7	19-7	19-8	19-9	19-10	19-11	20-0	20-1	20-2
425.00	22-0	22-1	22-2	22-3	22-4	22-5	22-6	22-7	22-8	22-9
450.00	24-8	24-9	24-10	24-11	25-1	25-2	25-3	25-4	25-5	25-6
475.00	27-6	27-7	27-8	27-10	27-11	28-0	28-2	28-3	28-4	28-6
500.00	30-6	30-7	30-9	30-10	30-11	31-1	31-2	31-4	31-5	31-7
525.00	33-7	33-9	33-10	34-0	34-2	34-3	34-5	34-6	34-8	34-10
550.00	36-11	37-1	37-2	37-4	37-6	37-8	37-9	37-11	38-1	38-3
575.00	40-4	40-6	40-8	40-10	41-0	41-2	41-4	41-6	41-8	41-10
600.00	44-0	44-2	44-4	44-6	44-8	44-10	45-0	45-2	45-4	45-6
625.00	47-9	47-11	48-1	48-4	48-6	48-8	48-11	49-1	49-3	49-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-7	7-8	7-8	7-8	7-9	7-9	7-9	7-10	7-10	7-10
275.00	9-3	9-3	9-3	9-4	9-4	9-5	9-5	9-6	9-6	9-6
300.00	11-0	11-0	11-1	11-1	11-2	11-2	11-3	11-3	11-4	11-4
325.00	12-10	12-11	13-0	13-0	13-1	13-1	13-2	13-3	13-3	13-4
350.00	14-11	15-0	15-1	15-1	15-2	15-3	15-3	15-4	15-5	15-5
375.00	17-2	17-3	17-3	17-4	17-5	17-6	17-7	17-7	17-8	17-9
400.00	19-6	19-7	19-8	19-9	19-10	19-11	20-0	20-1	20-1	20-2
425.00	22-1	22-2	22-3	22-4	22-5	22-6	22-7	22-8	22-9	22-10
450.00	24-9	24-10	24-11	25-0	25-1	25-2	25-4	25-5	25-6	25-7
475.00	27-7	27-8	27-9	27-11	28-0	28-1	28-2	28-4	28-5	28-6
500.00	30-7	30-8	30-10	30-11	31-0	31-2	31-3	31-5	31-6	31-7
525.00	33-8	33-10	34-0	34-1	34-3	34-4	34-6	34-7	34-9	34-11
550.00	37-0	37-2	37-4	37-5	37-7	37-9	37-10	38-0	38-2	38-4
575.00	40-6	40-8	40-9	40-11	41-1	41-3	41-5	41-7	41-9	41-11
600.00	44-1	44-3	44-5	44-7	44-9	44-11	45-1	45-4	45-6	45-8
625.00	47-10	48-1	48-3	48-5	48-7	48-10	49-0	49-2	49-4	49-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.49

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.593	5.82	1000	5.82	1000*
0	0	0	0	0.629	5.65	141	5.63	141
30	0	0	0	0.629	5.73	139	5.71	139
40	0	0	0	0.629	5.75	139	5.74	139
50	0	0	0	0.629	5.78	138	5.77	138
60	0	0	0	0.629	5.8	137	5.79	138
70	0	0	0	0.629	5.83	137	5.82	137
80	0	0	0	0.629	5.85	136	5.85	136
90	0	0	0	0.629	5.88	136	5.87	136
100	0	0	0	0.629	5.9	135	5.89	135
110	0	0	0	0.629	5.93	134	5.91	135
120	0	0	0	0.629	5.95	134	5.94	134
130	0	0	0	0.629	5.97	133	5.96	134
167	0	0	0	0.629	6.06	132	6.04	132
212	0	0	0	0.629	6.16	130	6.15	130

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.593	24.33	1000	24.33	1000*
0	0	0	0	0.629	24.16	138	24.15	138
30	0	0	0	0.629	24.24	137	24.23	137
40	0	0	0	0.629	24.26	137	24.25	137
50	0	0	0	0.629	24.29	137	24.28	137
60	0	0	0	0.629	24.31	137	24.3	137
70	0	0	0	0.629	24.34	137	24.33	137
80	0	0	0	0.629	24.36	137	24.36	137
90	0	0	0	0.629	24.39	137	24.38	137
100	0	0	0	0.629	24.42	137	24.4	137
110	0	0	0	0.629	24.44	136	24.43	136
120	0	0	0	0.629	24.46	136	24.45	136
130	0	0	0	0.629	24.49	136	24.47	136
167	0	0	0	0.629	24.57	136	24.56	136
212	0	0	0	0.629	24.68	135	24.66	135

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.50

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.593	60.04	1000	60.04	1000*
0	0	0	0	0.629	59.87	137	59.86	137
30	0	0	0	0.629	59.95	137	59.94	137
40	0	0	0	0.629	59.97	137	59.96	137
50	0	0	0	0.629	60	137	59.99	137
60	0	0	0	0.629	60.02	137	60.01	137
70	0	0	0	0.629	60.05	137	60.04	137
80	0	0	0	0.629	60.07	137	60.06	137
90	0	0	0	0.629	60.1	137	60.09	137
100	0	0	0	0.629	60.12	137	60.11	137
110	0	0	0	0.629	60.15	137	60.13	137
120	0	0	0	0.629	60.17	137	60.16	137
130	0	0	0	0.629	60.19	137	60.18	137
167	0	0	0	0.629	60.28	137	60.26	137
212	0	0	0	0.629	60.38	136	60.37	136

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.593	134.07	1000	134.07	1000*
0	0	0	0	0.629	133.91	137	133.9	137
30	0	0	0	0.629	133.98	137	133.97	137
40	0	0	0	0.629	134	137	133.99	137
50	0	0	0	0.629	134.03	137	134.02	137
60	0	0	0	0.629	134.05	137	134.04	137
70	0	0	0	0.629	134.08	137	134.07	137
80	0	0	0	0.629	134.1	137	134.09	137
90	0	0	0	0.629	134.12	137	134.11	137
100	0	0	0	0.629	134.15	137	134.13	137
110	0	0	0	0.629	134.17	137	134.16	137
120	0	0	0	0.629	134.19	137	134.18	137
130	0	0	0	0.629	134.21	137	134.2	137
167	0	0	0	0.629	134.29	137	134.28	137
212	0	0	0	0.629	134.39	137	134.38	137

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.51

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	3-2	3-2	3-3	3-3	3-3	3-3	3-3	3-4	3-4	3-4
100.00	5-8	5-9	5-9	5-9	5-10	5-10	5-10	5-10	5-11	5-11
125.00	8-11	8-11	9-0	9-0	9-1	9-1	9-2	9-2	9-3	9-3
150.00	12-10	12-11	13-0	13-1	13-1	13-2	13-3	13-3	13-4	13-5
175.00	17-7	17-8	17-9	17-10	17-11	18-0	18-1	18-2	18-3	18-3
200.00	23-1	23-2	23-3	23-5	23-6	23-7	23-8	23-10	23-11	24-0

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	3-2	3-3	3-3	3-3	3-3	3-3	3-3	3-4	3-4	3-4
100.00	5-8	5-9	5-9	5-9	5-10	5-10	5-10	5-11	5-11	5-11
125.00	8-11	9-0	9-0	9-1	9-1	9-2	9-2	9-3	9-3	9-3
150.00	12-11	12-11	13-0	13-1	13-2	13-2	13-3	13-4	13-4	13-5
175.00	17-7	17-8	17-9	17-10	17-11	18-0	18-1	18-2	18-3	18-4
200.00	23-1	23-2	23-4	23-5	23-6	23-8	23-9	23-10	23-11	24-1

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STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.52

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0
125.00	9-4	9-4	9-4	9-5	9-5	9-5	9-5	9-5	9-5	9-5
150.00	13-6	13-6	13-6	13-7	13-7	13-7	13-7	13-7	13-7	13-8
175.00	18-5	18-6	18-6	18-6	18-6	18-7	18-7	18-7	18-7	18-7
200.00	24-2	24-3	24-3	24-3	24-4	24-4	24-4	24-5	24-5	24-5
225.00	30-9	30-10	30-10	30-11	30-11	30-11	31-0	31-0	31-0	31-1
250.00	38-3	38-3	38-4	38-4	38-5	38-5	38-6	38-6	38-6	38-7

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0
125.00	9-4	9-4	9-4	9-5	9-5	9-5	9-5	9-5	9-5	9-5
150.00	13-6	13-6	13-6	13-7	13-7	13-7	13-7	13-7	13-7	13-8
175.00	18-5	18-6	18-6	18-6	18-6	18-7	18-7	18-7	18-7	18-8
200.00	24-3	24-3	24-3	24-3	24-4	24-4	24-4	24-5	24-5	24-5
225.00	30-10	30-10	30-10	30-11	30-11	31-0	31-0	31-0	31-1	31-1
250.00	38-3	38-3	38-4	38-4	38-5	38-5	38-6	38-6	38-7	38-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.53

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	14-5	14-5	14-6	14-6	14-6	14-6	14-6	14-6	14-6	14-6
175.00	19-9	19-9	19-9	19-9	19-9	19-9	19-10	19-10	19-10	19-10
200.00	25-11	25-11	25-11	25-11	26-0	26-0	26-0	26-0	26-0	26-0
225.00	33-0	33-0	33-0	33-0	33-1	33-1	33-1	33-1	33-1	33-1
250.00	41-0	41-0	41-0	41-1	41-1	41-1	41-1	41-1	41-2	41-2
275.00	49-11	50-0	50-0	50-0	50-1	50-1	50-1	50-1	50-1	50-2
300.00	59-11	59-11	60-0	60-0	60-0	60-0	60-1	60-1	60-1	60-2
325.00	70-11	70-11	70-11	71-0	71-0	71-1	71-1	71-1	71-2	71-2
350.00	83-0	83-0	83-0	83-1	83-1	83-2	83-2	83-3	83-3	83-3
375.00	96-2	96-2	96-3	96-3	96-4	96-4	96-5	96-5	96-6	96-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	14-5	14-5	14-6	14-6	14-6	14-6	14-6	14-6	14-6	14-6
175.00	19-9	19-9	19-9	19-9	19-9	19-10	19-10	19-10	19-10	19-10
200.00	25-11	25-11	25-11	26-0	26-0	26-0	26-0	26-0	26-0	26-0
225.00	33-0	33-0	33-0	33-1	33-1	33-1	33-1	33-1	33-1	33-1
250.00	41-0	41-0	41-0	41-1	41-1	41-1	41-1	41-1	41-2	41-2
275.00	50-0	50-0	50-0	50-0	50-1	50-1	50-1	50-1	50-2	50-2
300.00	59-11	59-11	60-0	60-0	60-0	60-1	60-1	60-1	60-1	60-2
325.00	70-11	70-11	71-0	71-0	71-0	71-1	71-1	71-1	71-2	71-2
350.00	83-0	83-0	83-1	83-1	83-1	83-2	83-2	83-3	83-3	83-4
375.00	96-2	96-3	96-3	96-4	96-4	96-5	96-5	96-6	96-6	96-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.54

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	30-8	30-8	30-8	30-8	30-8	30-8	30-9	30-9	30-9	30-9
225.00	39-2	39-2	39-2	39-2	39-2	39-2	39-2	39-2	39-2	39-2
250.00	48-9	48-9	48-9	48-9	48-9	48-9	48-9	48-10	48-10	48-10
275.00	59-7	59-7	59-7	59-7	59-7	59-7	59-7	59-7	59-7	59-8
300.00	71-7	71-7	71-8	71-8	71-8	71-8	71-8	71-8	71-8	71-9
325.00	85-0	85-0	85-0	85-1	85-1	85-1	85-1	85-1	85-1	85-2
350.00	99-10	99-10	99-10	99-10	99-10	99-11	99-11	99-11	99-11	99-11
375.00	116-1	116-1	116-2	116-2	116-2	116-2	116-3	116-3	116-3	116-3
400.00	133-11	134-0	134-0	134-0	134-1	134-1	134-1	134-1	134-2	134-2
425.00	153-6	153-6	153-6	153-7	153-7	153-7	153-8	153-8	153-8	153-9
450.00	174-10	174-10	174-10	174-11	174-11	175-0	175-0	175-0	175-1	175-1
475.00	198-0	198-1	198-1	198-2	198-2	198-2	198-3	198-3	198-4	198-4
500.00	223-3	223-4	223-4	223-5	223-5	223-6	223-6	223-7	223-7	223-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	30-8	30-8	30-8	30-8	30-8	30-8	30-9	30-9	30-9	30-9
225.00	39-2	39-2	39-2	39-2	39-2	39-2	39-2	39-2	39-2	39-2
250.00	48-9	48-9	48-9	48-9	48-9	48-9	48-9	48-10	48-10	48-10
275.00	59-7	59-7	59-7	59-7	59-7	59-7	59-7	59-7	59-7	59-8
300.00	71-7	71-8	71-8	71-8	71-8	71-8	71-8	71-8	71-9	71-9
325.00	85-0	85-0	85-0	85-1	85-1	85-1	85-1	85-1	85-1	85-2
350.00	99-10	99-10	99-10	99-10	99-11	99-11	99-11	99-11	99-11	100-0
375.00	116-1	116-1	116-2	116-2	116-2	116-2	116-3	116-3	116-3	116-3
400.00	133-11	134-0	134-0	134-0	134-1	134-1	134-1	134-1	134-2	134-2
425.00	153-6	153-6	153-7	153-7	153-7	153-8	153-8	153-8	153-9	153-9
450.00	174-10	174-10	174-11	174-11	174-11	175-0	175-0	175-0	175-1	175-1
475.00	198-0	198-1	198-1	198-2	198-2	198-3	198-3	198-4	198-4	198-4
500.00	223-3	223-4	223-4	223-5	223-5	223-6	223-7	223-7	223-8	223-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.55

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.593	3.85	1500	3.85	1500*
0	0	0	0	0.629	3.45	229	3.43	231
30	0	0	0	0.629	3.58	221	3.55	222
40	0	0	0	0.629	3.62	218	3.59	220
50	0	0	0	0.629	3.66	216	3.64	217
60	0	0	0	0.629	3.70	214	3.68	215
70	0	0	0	0.629	3.74	212	3.72	213
80	0	0	0	0.629	3.78	209	3.76	210
90	0	0	0	0.629	3.82	207	3.79	208
100	0	0	0	0.629	3.85	205	3.83	207
110	0	0	0	0.629	3.89	203	3.86	205
120	0	0	0	0.629	3.92	202	3.90	203
130	0	0	0	0.629	3.96	200	3.93	201
167	0	0	0	0.629	4.08	194	4.06	195
212	0	0	0	0.629	4.23	187	4.20	188

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.593	15.69	1500	15.69	1500*
0	0	0	0	0.629	15.30	210	15.27	211
30	0	0	0	0.629	15.42	209	15.39	209
40	0	0	0	0.629	15.46	208	15.43	209
50	0	0	0	0.629	15.50	208	15.47	208
60	0	0	0	0.629	15.54	207	15.51	208
70	0	0	0	0.629	15.57	207	15.55	207
80	0	0	0	0.629	15.61	206	15.59	207
90	0	0	0	0.629	15.65	206	15.63	206
100	0	0	0	0.629	15.69	205	15.67	206
110	0	0	0	0.629	15.73	205	15.70	205
120	0	0	0	0.629	15.76	204	15.74	205
130	0	0	0	0.629	15.80	204	15.77	204
167	0	0	0	0.629	15.93	203	15.90	203
212	0	0	0	0.629	16.08	201	16.05	201

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.56

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.593	36.49	1500	36.49	1500*
0	0	0	0	0.629	36.11	207	36.08	208
30	0	0	0	0.629	36.23	207	36.20	207
40	0	0	0	0.629	36.27	207	36.24	207
50	0	0	0	0.629	36.30	206	36.28	207
60	0	0	0	0.629	36.34	206	36.32	206
70	0	0	0	0.629	36.38	206	36.36	206
80	0	0	0	0.629	36.42	206	36.40	206
90	0	0	0	0.629	36.46	206	36.44	206
100	0	0	0	0.629	36.50	205	36.47	206
110	0	0	0	0.629	36.53	205	36.51	205
120	0	0	0	0.629	36.57	205	36.54	205
130	0	0	0	0.629	36.60	205	36.58	205
167	0	0	0	0.629	36.73	204	36.71	204
212	0	0	0	0.629	36.89	203	36.86	204

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.593	68.48	1500	68.48	1500*
0	0	0	0	0.629	68.10	206	68.07	206
30	0	0	0	0.629	68.21	206	68.19	206
40	0	0	0	0.629	68.25	206	68.23	206
50	0	0	0	0.629	68.29	206	68.27	206
60	0	0	0	0.629	68.33	206	68.30	206
70	0	0	0	0.629	68.36	206	68.34	206
80	0	0	0	0.629	68.40	206	68.38	206
90	0	0	0	0.629	68.44	206	68.42	206
100	0	0	0	0.629	68.48	205	68.45	205
110	0	0	0	0.629	68.52	205	68.49	205
120	0	0	0	0.629	68.55	205	68.52	205
130	0	0	0	0.629	68.59	205	68.56	205
167	0	0	0	0.629	68.71	205	68.69	205
212	0	0	0	0.629	68.87	205	68.84	205

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.57

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.593	116.90	1500	116.90	1500*
0	0	0	0	0.629	116.53	206	116.50	206
30	0	0	0	0.629	116.64	206	116.61	206
40	0	0	0	0.629	116.68	206	116.65	206
50	0	0	0	0.629	116.71	206	116.69	206
60	0	0	0	0.629	116.75	206	116.73	206
70	0	0	0	0.629	116.79	206	116.77	206
80	0	0	0	0.629	116.83	206	116.81	206
90	0	0	0	0.629	116.86	205	116.84	206
100	0	0	0	0.629	116.90	205	116.88	205
110	0	0	0	0.629	116.94	205	116.91	205
120	0	0	0	0.629	116.97	205	116.95	205
130	0	0	0	0.629	117.01	205	116.98	205
167	0	0	0	0.629	117.13	205	117.11	205
212	0	0	0	0.629	117.29	205	117.26	205

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-0	2-0	2-0	2-1	2-1	2-1	2-1	2-2	2-2	2-2
100.00	3-6	3-7	3-7	3-8	3-8	3-9	3-9	3-10	3-10	3-10
125.00	5-6	5-7	5-7	5-8	5-9	5-10	5-11	5-11	6-0	6-1
150.00	7-11	8-0	8-1	8-2	8-3	8-5	8-6	8-7	8-8	8-9
175.00	10-9	10-11	11-1	11-2	11-4	11-5	11-7	11-8	11-9	11-11
200.00	14-1	14-3	14-5	14-7	14-9	14-11	15-1	15-3	15-5	15-7

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-0	2-0	2-0	2-1	2-1	2-1	2-1	2-2	2-2	2-2
100.00	3-6	3-7	3-7	3-8	3-8	3-9	3-9	3-10	3-10	3-11
125.00	5-6	5-7	5-8	5-9	5-9	5-10	5-11	6-0	6-0	6-1
150.00	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9
175.00	10-10	11-0	11-1	11-3	11-4	11-6	11-7	11-9	11-10	12-0
200.00	14-3	14-5	14-7	14-9	14-11	15-0	15-2	15-4	15-6	15-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.59

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-10	3-10	3-10	3-10	3-10	3-10	3-10	3-11	3-11	3-11
125.00	6-0	6-0	6-0	6-0	6-0	6-1	6-1	6-1	6-1	6-1
150.00	8-7	8-8	8-8	8-8	8-8	8-9	8-9	8-9	8-9	8-10
175.00	11-9	11-9	11-10	11-10	11-10	11-11	11-11	11-11	12-0	12-0
200.00	15-4	15-5	15-5	15-6	15-6	15-7	15-7	15-8	15-8	15-8
225.00	19-6	19-6	19-7	19-7	19-8	19-9	19-9	19-10	19-10	19-11
250.00	24-1	24-2	24-3	24-3	24-4	24-5	24-6	24-6	24-7	24-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-10	3-10	3-10	3-10	3-10	3-10	3-11	3-11	3-11	3-11
125.00	6-0	6-0	6-0	6-0	6-0	6-1	6-1	6-1	6-1	6-1
150.00	8-7	8-8	8-8	8-8	8-9	8-9	8-9	8-9	8-10	8-10
175.00	11-9	11-9	11-10	11-10	11-10	11-11	11-11	12-0	12-0	12-0
200.00	15-5	15-5	15-5	15-6	15-6	15-7	15-7	15-8	15-8	15-9
225.00	19-6	19-7	19-7	19-8	19-8	19-9	19-10	19-10	19-11	19-11
250.00	24-2	24-2	24-3	24-4	24-5	24-5	24-6	24-7	24-8	24-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.60

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	8-11	8-11	8-11	8-11	8-11	9-0	9-0	9-0	9-0	9-0
175.00	12-2	12-2	12-2	12-2	12-2	12-3	12-3	12-3	12-3	12-3
200.00	15-11	15-11	15-11	15-11	16-0	16-0	16-0	16-0	16-0	16-1
225.00	20-2	20-2	20-3	20-3	20-3	20-3	20-4	20-4	20-4	20-4
250.00	25-0	25-0	25-0	25-1	25-1	25-1	25-2	25-2	25-2	25-2
275.00	30-4	30-4	30-4	30-5	30-5	30-6	30-6	30-6	30-7	30-7
300.00	36-2	36-2	36-3	36-3	36-4	36-4	36-5	36-5	36-6	36-6
325.00	42-7	42-8	42-8	42-9	42-9	42-10	42-10	42-11	42-11	43-0
350.00	49-7	49-7	49-8	49-9	49-9	49-10	49-11	49-11	50-0	50-0
375.00	57-1	57-2	57-3	57-3	57-4	57-5	57-6	57-6	57-7	57-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	8-11	8-11	8-11	8-11	9-0	9-0	9-0	9-0	9-0	9-0
175.00	12-2	12-2	12-2	12-2	12-3	12-3	12-3	12-3	12-3	12-3
200.00	15-11	15-11	15-11	16-0	16-0	16-0	16-0	16-0	16-1	16-1
225.00	20-2	20-3	20-3	20-3	20-3	20-4	20-4	20-4	20-4	20-5
250.00	25-0	25-0	25-0	25-1	25-1	25-1	25-2	25-2	25-2	25-3
275.00	30-4	30-4	30-5	30-5	30-5	30-6	30-6	30-7	30-7	30-7
300.00	36-2	36-3	36-3	36-4	36-4	36-5	36-5	36-6	36-6	36-6
325.00	42-7	42-8	42-8	42-9	42-10	42-10	42-11	42-11	43-0	43-0
350.00	49-7	49-8	49-8	49-9	49-10	49-10	49-11	50-0	50-0	50-1
375.00	57-2	57-2	57-3	57-4	57-5	57-5	57-6	57-7	57-8	57-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.61

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	16-7	16-7	16-7	16-7	16-7	16-8	16-8	16-8	16-8	16-8
225.00	21-0	21-1	21-1	21-1	21-1	21-1	21-1	21-1	21-2	21-2
250.00	26-1	26-1	26-1	26-1	26-1	26-1	26-2	26-2	26-2	26-2
275.00	31-7	31-8	31-8	31-8	31-8	31-8	31-9	31-9	31-9	31-9
300.00	37-9	37-9	37-9	37-10	37-10	37-10	37-10	37-11	37-11	37-11
325.00	44-5	44-6	44-6	44-6	44-7	44-7	44-7	44-7	44-8	44-8
350.00	51-9	51-9	51-10	51-10	51-10	51-11	51-11	51-11	52-0	52-0
375.00	59-8	59-8	59-8	59-9	59-9	59-10	59-10	59-10	59-11	59-11
400.00	68-2	68-2	68-3	68-3	68-4	68-4	68-5	68-5	68-5	68-6
425.00	77-3	77-4	77-5	77-5	77-6	77-6	77-7	77-7	77-8	77-8
450.00	87-1	87-1	87-2	87-3	87-3	87-4	87-5	87-5	87-6	87-6
475.00	97-6	97-7	97-8	97-8	97-9	97-10	97-10	97-11	98-0	98-0
500.00	108-8	108-8	108-9	108-10	108-11	109-0	109-0	109-1	109-2	109-2

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	16-7	16-7	16-7	16-7	16-8	16-8	16-8	16-8	16-8	16-8
225.00	21-1	21-1	21-1	21-1	21-1	21-1	21-1	21-2	21-2	21-2
250.00	26-1	26-1	26-1	26-1	26-1	26-1	26-2	26-2	26-2	26-2
275.00	31-7	31-8	31-8	31-8	31-8	31-8	31-9	31-9	31-9	31-9
300.00	37-9	37-9	37-10	37-10	37-10	37-10	37-10	37-11	37-11	37-11
325.00	44-6	44-6	44-6	44-6	44-7	44-7	44-7	44-8	44-8	44-8
350.00	51-9	51-9	51-10	51-10	51-10	51-11	51-11	52-0	52-0	52-0
375.00	59-8	59-8	59-9	59-9	59-10	59-10	59-10	59-11	59-11	59-11
400.00	68-2	68-3	68-3	68-3	68-4	68-4	68-5	68-5	68-6	68-6
425.00	77-4	77-4	77-5	77-5	77-6	77-6	77-7	77-7	77-8	77-9
450.00	87-1	87-2	87-2	87-3	87-4	87-4	87-5	87-5	87-6	87-7
475.00	97-7	97-7	97-8	97-9	97-9	97-10	97-11	97-11	98-0	98-1
500.00	108-8	108-9	108-10	108-10	108-11	109-0	109-1	109-2	109-2	109-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.62

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	27-10	27-10	27-10	27-10	27-10	27-10	27-10	27-10	27-10	27-10
275.00	33-9	33-9	33-9	33-9	33-9	33-10	33-10	33-10	33-10	33-10
300.00	40-4	40-4	40-4	40-4	40-4	40-4	40-5	40-5	40-5	40-5
325.00	47-6	47-6	47-6	47-6	47-7	47-7	47-7	47-7	47-7	47-7
350.00	55-4	55-4	55-4	55-4	55-5	55-5	55-5	55-5	55-5	55-6
375.00	63-9	63-10	63-10	63-10	63-10	63-11	63-11	63-11	63-11	64-0
400.00	72-11	72-11	73-0	73-0	73-0	73-1	73-1	73-1	73-1	73-2
425.00	82-9	82-9	82-10	82-10	82-10	82-11	82-11	82-11	83-0	83-0
450.00	93-4	93-4	93-4	93-5	93-5	93-5	93-6	93-6	93-6	93-7
475.00	104-7	104-7	104-8	104-8	104-8	104-9	104-9	104-10	104-10	104-10
500.00	116-7	116-7	116-8	116-8	116-9	116-9	116-10	116-10	116-11	116-11
525.00	129-4	129-5	129-5	129-6	129-6	129-7	129-7	129-8	129-8	129-9
550.00	142-11	143-0	143-0	143-1	143-2	143-2	143-3	143-3	143-4	143-4
575.00	157-4	157-5	157-5	157-6	157-7	157-7	157-8	157-8	157-9	157-10
600.00	172-7	172-8	172-8	172-9	172-10	172-11	172-11	173-0	173-1	173-1
625.00	188-8	188-9	188-10	188-11	189-0	189-0	189-1	189-2	189-3	189-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	27-10	27-10	27-10	27-10	27-10	27-10	27-10	27-10	27-10	27-10
275.00	33-9	33-9	33-9	33-9	33-9	33-10	33-10	33-10	33-10	33-10
300.00	40-4	40-4	40-4	40-4	40-4	40-4	40-5	40-5	40-5	40-5
325.00	47-6	47-6	47-6	47-6	47-7	47-7	47-7	47-7	47-7	47-7
350.00	55-4	55-4	55-4	55-4	55-5	55-5	55-5	55-5	55-5	55-6
375.00	63-10	63-10	63-10	63-10	63-11	63-11	63-11	63-11	63-11	64-0
400.00	72-11	73-0	73-0	73-0	73-0	73-1	73-1	73-1	73-2	73-2
425.00	82-9	82-10	82-10	82-10	82-11	82-11	82-11	83-0	83-0	83-0
450.00	93-4	93-4	93-5	93-5	93-5	93-6	93-6	93-6	93-7	93-7
475.00	104-7	104-7	104-8	104-8	104-9	104-9	104-9	104-10	104-10	104-11
500.00	116-7	116-8	116-8	116-9	116-9	116-9	116-10	116-10	116-11	116-11
525.00	129-5	129-5	129-6	129-6	129-7	129-7	129-8	129-8	129-9	129-9
550.00	143-0	143-0	143-1	143-1	143-2	143-2	143-3	143-4	143-4	143-5
575.00	157-4	157-5	157-6	157-6	157-7	157-8	157-8	157-9	157-9	157-10
600.00	172-7	172-8	172-9	172-10	172-10	172-11	173-0	173-0	173-1	173-2
625.00	188-9	188-10	188-10	188-11	189-0	189-1	189-2	189-2	189-3	189-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.63

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.593	2.88	2000	2.88	2000*
0	0	0	0	0.629	2.14	367	2.09	377
30	0	0	0	0.629	2.33	338	2.28	346
40	0	0	0	0.629	2.39	330	2.34	337
50	0	0	0	0.629	2.44	322	2.40	329
60	0	0	0	0.629	2.50	315	2.46	321
70	0	0	0	0.629	2.56	308	2.51	314
80	0	0	0	0.629	2.61	302	2.57	307
90	0	0	0	0.629	2.66	296	2.62	300
100	0	0	0	0.629	2.72	290	2.68	294
110	0	0	0	0.629	2.77	285	2.73	289
120	0	0	0	0.629	2.81	280	2.77	285
130	0	0	0	0.629	2.86	276	2.82	280
167	0	0	0	0.629	3.02	261	2.98	264
212	0	0	0	0.629	3.21	246	3.17	249

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.593	11.64	2000	11.64	2000*
0	0	0	0	0.629	10.95	291	10.89	292
30	0	0	0	0.629	11.11	287	11.06	288
40	0	0	0	0.629	11.16	285	11.11	287
50	0	0	0	0.629	11.21	284	11.17	285
60	0	0	0	0.629	11.26	283	11.22	284
70	0	0	0	0.629	11.32	281	11.27	282
80	0	0	0	0.629	11.37	280	11.33	281
90	0	0	0	0.629	11.42	279	11.38	280
100	0	0	0	0.629	11.47	278	11.43	279
110	0	0	0	0.629	11.52	277	11.48	278
120	0	0	0	0.629	11.57	275	11.53	276
130	0	0	0	0.629	11.62	274	11.57	275
167	0	0	0	0.629	11.79	271	11.75	271
212	0	0	0	0.629	11.99	266	11.95	267

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.64

Span = 300 ft

Design Condition Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Final Sag ft	Final Tension lb	Initial Sag ft	Initial Tension lb
0	1.00G	12	0	4.593	26.65	2000	26.65	2000*
0	0	0	0	0.629	25.97	281	25.92	281
30	0	0	0	0.629	26.12	279	26.08	280
40	0	0	0	0.629	26.18	279	26.13	279
50	0	0	0	0.629	26.23	278	26.18	279
60	0	0	0	0.629	26.28	278	26.24	278
70	0	0	0	0.629	26.33	277	26.29	277
80	0	0	0	0.629	26.38	277	26.34	277
90	0	0	0	0.629	26.44	276	26.40	276
100	0	0	0	0.629	26.49	276	26.45	276
110	0	0	0	0.629	26.54	275	26.49	275
120	0	0	0	0.629	26.58	275	26.54	275
130	0	0	0	0.629	26.63	274	26.59	275
167	0	0	0	0.629	26.80	272	26.76	273
212	0	0	0	0.629	27.01	270	26.97	271

* Design Condition

Span = 400 ft

Design Condition Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Final Sag ft	Final Tension lb	Initial Sag ft	Initial Tension lb
0	1.00G	12	0	4.593	48.66	2000	48.66	2000*
0	0	0	0	0.629	47.98	277	47.93	278
30	0	0	0	0.629	48.13	277	48.09	277
40	0	0	0	0.629	48.19	276	48.14	277
50	0	0	0	0.629	48.24	276	48.19	276
60	0	0	0	0.629	48.29	276	48.25	276
70	0	0	0	0.629	48.34	276	48.30	276
80	0	0	0	0.629	48.39	275	48.35	275
90	0	0	0	0.629	48.44	275	48.40	275
100	0	0	0	0.629	48.49	275	48.45	275
110	0	0	0	0.629	48.54	274	48.50	275
120	0	0	0	0.629	48.59	274	48.55	274
130	0	0	0	0.629	48.64	274	48.59	274
167	0	0	0	0.629	48.81	273	48.77	273
212	0	0	0	0.629	49.02	272	48.98	272

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.65

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.593	78.97	2000	78.97	2000*
0	0	0	0	0.629	78.30	276	78.25	276
30	0	0	0	0.629	78.45	275	78.41	276
40	0	0	0	0.629	78.51	275	78.46	275
50	0	0	0	0.629	78.56	275	78.51	275
60	0	0	0	0.629	78.61	275	78.57	275
70	0	0	0	0.629	78.66	275	78.62	275
80	0	0	0	0.629	78.71	275	78.67	275
90	0	0	0	0.629	78.76	275	78.72	275
100	0	0	0	0.629	78.81	274	78.77	274
110	0	0	0	0.629	78.86	274	78.82	274
120	0	0	0	0.629	78.91	274	78.87	274
130	0	0	0	0.629	78.95	274	78.91	274
167	0	0	0	0.629	79.13	273	79.08	274
212	0	0	0	0.629	79.33	273	79.29	273

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.66

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-3	1-4	1-4	1-5	1-5	1-5	1-6	1-6	1-6
100.00	2-3	2-3	2-4	2-5	2-5	2-6	2-7	2-7	2-8	2-9
125.00	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3
150.00	5-0	5-2	5-3	5-5	5-6	5-8	5-9	5-11	6-0	6-2
175.00	6-9	7-0	7-2	7-4	7-6	7-9	7-11	8-1	8-3	8-4
200.00	8-11	9-1	9-4	9-7	9-10	10-1	10-4	10-6	10-9	10-11

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-4	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7
100.00	2-3	2-4	2-5	2-5	2-6	2-7	2-7	2-8	2-9	2-9
125.00	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4
150.00	5-1	5-3	5-5	5-6	5-8	5-9	5-11	6-0	6-1	6-3
175.00	6-11	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-6
200.00	9-1	9-4	9-7	9-10	10-0	10-3	10-6	10-8	10-11	11-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.67

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-9	2-9	2-9	2-9	2-10	2-10	2-10	2-10	2-10	2-10
125.00	4-3	4-4	4-4	4-4	4-4	4-5	4-5	4-5	4-5	4-6
150.00	6-2	6-3	6-3	6-3	6-4	6-4	6-4	6-5	6-5	6-5
175.00	8-5	8-6	8-6	8-6	8-7	8-7	8-8	8-8	8-9	8-9
200.00	11-0	11-1	11-1	11-2	11-3	11-3	11-4	11-5	11-5	11-6
225.00	13-11	14-0	14-1	14-2	14-3	14-3	14-4	14-5	14-6	14-7
250.00	17-3	17-4	17-5	17-6	17-7	17-8	17-9	17-10	17-11	18-0

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-9	2-9	2-9	2-10	2-10	2-10	2-10	2-10	2-10	2-10
125.00	4-4	4-4	4-4	4-4	4-5	4-5	4-5	4-5	4-6	4-6
150.00	6-2	6-3	6-3	6-4	6-4	6-4	6-5	6-5	6-5	6-6
175.00	8-5	8-6	8-6	8-7	8-7	8-8	8-8	8-9	8-9	8-10
200.00	11-1	11-1	11-2	11-3	11-3	11-4	11-4	11-5	11-6	11-6
225.00	14-0	14-1	14-2	14-2	14-3	14-4	14-5	14-6	14-6	14-7
250.00	17-4	17-5	17-6	17-7	17-8	17-9	17-10	17-11	18-0	18-1

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STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.68

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-6	6-6	6-6	6-6	6-6	6-6	6-6	6-7	6-7	6-7
175.00	8-10	8-10	8-10	8-10	8-10	8-11	8-11	8-11	8-11	8-11
200.00	11-6	11-6	11-7	11-7	11-7	11-7	11-8	11-8	11-8	11-9
225.00	14-7	14-7	14-8	14-8	14-8	14-9	14-9	14-9	14-10	14-10
250.00	18-0	18-1	18-1	18-2	18-2	18-2	18-3	18-3	18-4	18-4
275.00	21-10	21-11	21-11	22-0	22-0	22-1	22-1	22-2	22-2	22-3
300.00	26-0	26-1	26-2	26-2	26-3	26-3	26-4	26-5	26-5	26-6
325.00	30-7	30-8	30-9	30-9	30-10	30-11	31-0	31-0	31-1	31-2
350.00	35-7	35-7	35-8	35-9	35-10	35-11	36-0	36-1	36-2	36-2
375.00	40-11	41-0	41-1	41-2	41-3	41-4	41-5	41-6	41-7	41-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-6	6-6	6-6	6-6	6-6	6-6	6-7	6-7	6-7	6-7
175.00	8-10	8-10	8-10	8-10	8-11	8-11	8-11	8-11	8-11	9-0
200.00	11-6	11-7	11-7	11-7	11-7	11-8	11-8	11-8	11-8	11-9
225.00	14-7	14-8	14-8	14-8	14-9	14-9	14-9	14-10	14-10	14-10
250.00	18-1	18-1	18-1	18-2	18-2	18-3	18-3	18-4	18-4	18-4
275.00	21-10	21-11	22-0	22-0	22-1	22-1	22-2	22-2	22-3	22-3
300.00	26-1	26-1	26-2	26-3	26-3	26-4	26-5	26-5	26-6	26-6
325.00	30-8	30-9	30-9	30-10	30-11	30-11	31-0	31-1	31-2	31-2
350.00	35-7	35-8	35-9	35-10	35-11	36-0	36-1	36-1	36-2	36-3
375.00	41-0	41-1	41-2	41-3	41-4	41-5	41-6	41-6	41-7	41-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.69

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-10	11-10	11-10	11-11	11-11	11-11	11-11	11-11	11-11	11-11
225.00	15-0	15-0	15-0	15-1	15-1	15-1	15-1	15-1	15-2	15-2
250.00	18-7	18-7	18-7	18-7	18-8	18-8	18-8	18-8	18-9	18-9
275.00	22-6	22-6	22-6	22-7	22-7	22-7	22-8	22-8	22-8	22-8
300.00	26-10	26-10	26-10	26-11	26-11	26-11	27-0	27-0	27-0	27-1
325.00	31-6	31-7	31-7	31-7	31-8	31-8	31-9	31-9	31-9	31-10
350.00	36-7	36-8	36-8	36-9	36-9	36-10	36-10	36-11	36-11	37-0
375.00	42-1	42-2	42-3	42-3	42-4	42-4	42-5	42-5	42-6	42-6
400.00	48-0	48-1	48-2	48-2	48-3	48-4	48-4	48-5	48-5	48-6
425.00	54-4	54-5	54-6	54-6	54-7	54-8	54-9	54-9	54-10	54-11
450.00	61-1	61-2	61-3	61-4	61-4	61-5	61-6	61-7	61-8	61-8
475.00	68-3	68-4	68-5	68-6	68-7	68-8	68-8	68-9	68-10	68-11
500.00	75-10	75-11	76-0	76-1	76-2	76-3	76-4	76-5	76-6	76-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-10	11-10	11-11	11-11	11-11	11-11	11-11	11-11	11-11	12-0
225.00	15-0	15-0	15-1	15-1	15-1	15-1	15-1	15-2	15-2	15-2
250.00	18-7	18-7	18-7	18-8	18-8	18-8	18-8	18-8	18-9	18-9
275.00	22-6	22-6	22-7	22-7	22-7	22-7	22-8	22-8	22-8	22-9
300.00	26-10	26-10	26-11	26-11	26-11	27-0	27-0	27-0	27-1	27-1
325.00	31-7	31-7	31-7	31-8	31-8	31-9	31-9	31-9	31-10	31-10
350.00	36-8	36-8	36-9	36-9	36-10	36-10	36-11	36-11	37-0	37-0
375.00	42-2	42-3	42-3	42-4	42-4	42-5	42-5	42-6	42-6	42-7
400.00	48-1	48-2	48-2	48-3	48-3	48-4	48-5	48-5	48-6	48-7
425.00	54-5	54-6	54-6	54-7	54-8	54-8	54-9	54-10	54-11	54-11
450.00	61-2	61-3	61-3	61-4	61-5	61-6	61-7	61-7	61-8	61-9
475.00	68-4	68-5	68-6	68-7	68-7	68-8	68-9	68-10	68-11	69-0
500.00	75-11	76-0	76-1	76-2	76-3	76-4	76-5	76-6	76-7	76-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.70

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	19-2	19-2	19-2	19-2	19-2	19-2	19-3	19-3	19-3	19-3
275.00	23-2	23-3	23-3	23-3	23-3	23-3	23-3	23-4	23-4	23-4
300.00	27-8	27-8	27-8	27-9	27-9	27-9	27-9	27-9	27-10	27-10
325.00	32-6	32-7	32-7	32-7	32-7	32-8	32-8	32-8	32-8	32-9
350.00	37-10	37-10	37-10	37-10	37-11	37-11	37-11	38-0	38-0	38-0
375.00	43-6	43-6	43-7	43-7	43-7	43-8	43-8	43-8	43-9	43-9
400.00	49-7	49-8	49-8	49-8	49-9	49-9	49-10	49-10	49-10	49-11
425.00	56-2	56-2	56-2	56-3	56-3	56-4	56-4	56-5	56-5	56-6
450.00	63-1	63-2	63-2	63-3	63-3	63-4	63-4	63-5	63-5	63-6
475.00	70-6	70-7	70-7	70-8	70-8	70-9	70-9	70-10	70-11	70-11
500.00	78-4	78-5	78-6	78-6	78-7	78-7	78-8	78-9	78-9	78-10
525.00	86-8	86-9	86-9	86-10	86-11	86-11	87-0	87-1	87-1	87-2
550.00	95-5	95-6	95-7	95-7	95-8	95-9	95-10	95-10	95-11	96-0
575.00	104-8	104-9	104-10	104-10	104-11	105-0	105-1	105-2	105-3	105-3
600.00	114-4	114-5	114-6	114-7	114-8	114-9	114-10	114-11	115-0	115-1
625.00	124-7	124-8	124-9	124-10	124-11	125-0	125-1	125-2	125-3	125-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	19-2	19-2	19-2	19-2	19-2	19-3	19-3	19-3	19-3	19-3
275.00	23-3	23-3	23-3	23-3	23-3	23-3	23-4	23-4	23-4	23-4
300.00	27-8	27-8	27-9	27-9	27-9	27-9	27-9	27-10	27-10	27-10
325.00	32-7	32-7	32-7	32-7	32-8	32-8	32-8	32-8	32-8	32-9
350.00	37-10	37-10	37-10	37-11	37-11	37-11	38-0	38-0	38-0	38-0
375.00	43-6	43-6	43-7	43-7	43-7	43-8	43-8	43-8	43-9	43-9
400.00	49-8	49-8	49-8	49-9	49-9	49-9	49-10	49-10	49-11	49-11
425.00	56-2	56-2	56-3	56-3	56-4	56-4	56-5	56-5	56-5	56-6
450.00	63-2	63-2	63-3	63-3	63-4	63-4	63-5	63-5	63-6	63-6
475.00	70-7	70-7	70-8	70-8	70-9	70-9	70-10	70-10	70-11	70-11
500.00	78-5	78-5	78-6	78-7	78-7	78-8	78-9	78-9	78-10	78-10
525.00	86-9	86-9	86-10	86-11	86-11	87-0	87-1	87-1	87-2	87-3
550.00	95-6	95-7	95-7	95-8	95-9	95-10	95-10	95-11	96-0	96-1
575.00	104-9	104-9	104-10	104-11	105-0	105-1	105-2	105-2	105-3	105-4
600.00	114-5	114-6	114-7	114-8	114-9	114-10	114-11	115-0	115-1	115-1
625.00	124-8	124-9	124-10	124-11	125-0	125-1	125-2	125-3	125-4	125-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.71

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.225	1.53	1000	1.53	1000*
20	0	0	0	0.629	0.99	791	0.99	798
30	0	0	0	0.629	1.07	732	1.06	740
40	0	0	0	0.629	1.15	681	1.14	688
50	0	0	0	0.629	1.24	637	1.22	643
60	0	0	0	0.629	1.32	597	1.3	603
70	0	0	0	0.629	1.4	563	1.39	568
80	0	0	0	0.629	1.48	533	1.47	537
90	0	0	0	0.629	1.55	506	1.54	510
100	0	0	0	0.629	1.63	483	1.62	485
110	0	0	0	0.629	1.7	462	1.7	464
120	0	0	0	0.629	1.78	443	1.77	445
130	0	0	0	0.629	1.85	426	1.83	430
167	0	0	0	0.629	2.08	379	2.06	383
212	0	0	0	0.629	2.33	338	2.31	341

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.225	6.15	1000	6.15	1000*
20	0	0	0	0.629	5.51	572	5.49	575
30	0	0	0	0.629	5.61	562	5.59	565
40	0	0	0	0.629	5.71	553	5.69	555
50	0	0	0	0.629	5.8	544	5.78	546
60	0	0	0	0.629	5.9	535	5.88	537
70	0	0	0	0.629	5.99	527	5.97	528
80	0	0	0	0.629	6.08	519	6.07	520
90	0	0	0	0.629	6.17	511	6.16	512
100	0	0	0	0.629	6.26	504	6.25	505
110	0	0	0	0.629	6.35	497	6.34	498
120	0	0	0	0.629	6.44	490	6.43	491
130	0	0	0	0.629	6.53	484	6.52	485
167	0	0	0	0.629	6.82	463	6.8	465
212	0	0	0	0.629	7.16	442	7.13	443

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.72

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.225	13.9	1000	13.9	1000*
20	0	0	0	0.629	13.26	538	13.23	539
30	0	0	0	0.629	13.35	534	13.33	535
40	0	0	0	0.629	13.45	530	13.43	531
50	0	0	0	0.629	13.55	527	13.53	527
60	0	0	0	0.629	13.64	523	13.62	524
70	0	0	0	0.629	13.74	519	13.72	520
80	0	0	0	0.629	13.83	516	13.82	516
90	0	0	0	0.629	13.93	513	13.91	513
100	0	0	0	0.629	14.02	509	14.01	510
110	0	0	0	0.629	14.11	506	14.1	506
120	0	0	0	0.629	14.2	503	14.2	503
130	0	0	0	0.629	14.3	499	14.29	500
167	0	0	0	0.629	14.61	489	14.59	490
212	0	0	0	0.629	14.98	477	14.96	478

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.225	24.88	1000	24.88	1000*
20	0	0	0	0.629	24.23	527	24.21	527
30	0	0	0	0.629	24.33	525	24.31	525
40	0	0	0	0.629	24.43	523	24.41	523
50	0	0	0	0.629	24.52	521	24.5	521
60	0	0	0	0.629	24.62	519	24.6	519
70	0	0	0	0.629	24.72	517	24.7	517
80	0	0	0	0.629	24.81	515	24.8	515
90	0	0	0	0.629	24.91	513	24.89	513
100	0	0	0	0.629	25	511	24.99	511
110	0	0	0	0.629	25.1	509	25.09	509
120	0	0	0	0.629	25.19	507	25.18	507
130	0	0	0	0.629	25.28	506	25.28	506
167	0	0	0	0.629	25.61	499	25.59	500
212	0	0	0	0.629	25.99	492	25.97	493

* Design Condition

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SHEET 73 OF 215

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.73

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.225	39.23	1000	39.23	1000*
20	0	0	0	0.629	38.58	522	38.56	522
30	0	0	0	0.629	38.68	520	38.65	521
40	0	0	0	0.629	38.77	519	38.75	519
50	0	0	0	0.629	38.87	518	38.85	518
60	0	0	0	0.629	38.97	517	38.95	517
70	0	0	0	0.629	39.06	516	39.04	516
80	0	0	0	0.629	39.16	514	39.14	515
90	0	0	0	0.629	39.25	513	39.24	513
100	0	0	0	0.629	39.35	512	39.34	512
110	0	0	0	0.629	39.44	511	39.43	511
120	0	0	0	0.629	39.54	510	39.53	510
130	0	0	0	0.629	39.63	508	39.62	509
167	0	0	0	0.629	39.96	504	39.94	505
212	0	0	0	0.629	40.35	500	40.33	500

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.74

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11
100.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8
125.00	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-5	2-6	2-8
150.00	2-3	2-5	2-7	2-9	2-11	3-1	3-4	3-6	3-8	3-10
175.00	3-0	3-3	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-2
200.00	3-11	4-3	4-7	4-11	5-3	5-7	5-10	6-2	6-6	6-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0
100.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-8
125.00	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-5	2-7	2-8
150.00	2-3	2-5	2-7	2-9	3-0	3-2	3-4	3-6	3-8	3-10
175.00	3-1	3-3	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3
200.00	4-0	4-4	4-7	4-11	5-3	5-7	5-11	6-3	6-6	6-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.75

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-5	1-5	1-5	1-6	1-6	1-6	1-6	1-7	1-7
125.00	2-2	2-2	2-3	2-3	2-4	2-4	2-4	2-5	2-5	2-6
150.00	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-6	3-6	3-7
175.00	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-9	4-10
200.00	5-6	5-7	5-8	5-9	5-11	6-0	6-1	6-2	6-3	6-4
225.00	6-11	7-1	7-2	7-4	7-5	7-7	7-8	7-10	7-11	8-0
250.00	8-7	8-9	8-11	9-1	9-2	9-4	9-6	9-8	9-9	9-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-5	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-7
125.00	2-2	2-2	2-3	2-3	2-4	2-4	2-4	2-5	2-5	2-6
150.00	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-6	3-6	3-7
175.00	4-3	4-4	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-10
200.00	5-6	5-7	5-8	5-10	5-11	6-0	6-1	6-2	6-3	6-4
225.00	7-0	7-1	7-3	7-4	7-6	7-7	7-8	7-10	7-11	8-1
250.00	8-7	8-9	8-11	9-1	9-3	9-4	9-6	9-8	9-10	9-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.76

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-4	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-6
175.00	4-6	4-6	4-7	4-7	4-8	4-8	4-8	4-9	4-9	4-9
200.00	5-10	5-11	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3
225.00	7-5	7-6	7-7	7-7	7-8	7-9	7-9	7-10	7-10	7-11
250.00	9-2	9-3	9-4	9-5	9-5	9-6	9-7	9-8	9-9	9-9
275.00	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10
300.00	13-3	13-4	13-5	13-6	13-7	13-9	13-10	13-11	14-0	14-1
325.00	15-6	15-8	15-9	15-11	16-0	16-1	16-3	16-4	16-5	16-7
350.00	18-0	18-2	18-4	18-5	18-7	18-8	18-10	18-11	19-1	19-3
375.00	20-8	20-10	21-0	21-2	21-4	21-6	21-7	21-9	21-11	22-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-4	3-4	3-5	3-5	3-5	3-5	3-6	3-6	3-6
175.00	4-6	4-6	4-7	4-7	4-8	4-8	4-8	4-9	4-9	4-10
200.00	5-11	5-11	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3
225.00	7-5	7-6	7-7	7-7	7-8	7-9	7-9	7-10	7-11	7-11
250.00	9-2	9-3	9-4	9-5	9-6	9-6	9-7	9-8	9-9	9-9
275.00	11-2	11-3	11-4	11-5	11-5	11-6	11-7	11-8	11-9	11-10
300.00	13-3	13-4	13-5	13-7	13-8	13-9	13-10	13-11	14-0	14-1
325.00	15-7	15-8	15-10	15-11	16-0	16-2	16-3	16-4	16-6	16-7
350.00	18-1	18-2	18-4	18-5	18-7	18-9	18-10	19-0	19-1	19-3
375.00	20-9	20-11	21-1	21-2	21-4	21-6	21-8	21-10	21-11	22-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.77

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-0	6-1	6-1	6-1	6-2	6-2	6-2	6-2	6-3	6-3
225.00	7-8	7-8	7-8	7-9	7-9	7-9	7-10	7-10	7-11	7-11
250.00	9-5	9-6	9-6	9-7	9-7	9-7	9-8	9-8	9-9	9-9
275.00	11-5	11-6	11-6	11-7	11-7	11-8	11-8	11-9	11-9	11-10
300.00	13-7	13-8	13-8	13-9	13-10	13-10	13-11	14-0	14-0	14-1
325.00	15-11	16-0	16-1	16-2	16-3	16-3	16-4	16-5	16-6	16-6
350.00	18-6	18-7	18-8	18-9	18-10	18-11	19-0	19-0	19-1	19-2
375.00	21-3	21-4	21-5	21-6	21-7	21-8	21-9	21-10	21-11	22-0
400.00	24-3	24-4	24-5	24-6	24-7	24-8	24-10	24-11	25-0	25-1
425.00	27-4	27-5	27-7	27-8	27-9	27-11	28-0	28-1	28-3	28-4
450.00	30-8	30-10	30-11	31-1	31-2	31-4	31-5	31-7	31-8	31-10
475.00	34-2	34-4	34-6	34-7	34-9	34-11	35-0	35-2	35-4	35-5
500.00	37-11	38-1	38-3	38-5	38-7	38-8	38-10	39-0	39-2	39-4

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-0	6-1	6-1	6-1	6-2	6-2	6-2	6-2	6-3	6-3
225.00	7-8	7-8	7-8	7-9	7-9	7-10	7-10	7-10	7-11	7-11
250.00	9-5	9-6	9-6	9-7	9-7	9-8	9-8	9-8	9-9	9-9
275.00	11-5	11-6	11-6	11-7	11-7	11-8	11-8	11-9	11-9	11-10
300.00	13-7	13-8	13-9	13-9	13-10	13-10	13-11	14-0	14-0	14-1
325.00	16-0	16-0	16-1	16-2	16-3	16-3	16-4	16-5	16-6	16-6
350.00	18-6	18-7	18-8	18-9	18-10	18-11	19-0	19-1	19-1	19-2
375.00	21-3	21-4	21-5	21-6	21-8	21-9	21-10	21-11	22-0	22-1
400.00	24-3	24-4	24-5	24-6	24-7	24-9	24-10	24-11	25-0	25-1
425.00	27-5	27-6	27-7	27-8	27-10	27-11	28-0	28-2	28-3	28-4
450.00	30-9	30-10	30-11	31-1	31-2	31-4	31-5	31-7	31-8	31-10
475.00	34-3	34-5	34-6	34-8	34-9	34-11	35-1	35-2	35-4	35-6
500.00	38-0	38-1	38-3	38-5	38-7	38-9	38-11	39-0	39-2	39-4

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STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-7	9-7	9-8	9-8	9-8	9-8	9-9	9-9	9-9	9-10
275.00	11-7	11-8	11-8	11-8	11-9	11-9	11-9	11-10	11-10	11-10
300.00	13-10	13-10	13-11	13-11	13-11	14-0	14-0	14-1	14-1	14-1
325.00	16-3	16-3	16-4	16-4	16-5	16-5	16-6	16-6	16-7	16-7
350.00	18-10	18-10	18-11	19-0	19-0	19-1	19-1	19-2	19-2	19-3
375.00	21-7	21-8	21-9	21-9	21-10	21-11	21-11	22-0	22-1	22-1
400.00	24-7	24-8	24-9	24-10	24-10	24-11	25-0	25-0	25-1	25-2
425.00	27-10	27-10	27-11	28-0	28-1	28-2	28-3	28-3	28-4	28-5
450.00	31-2	31-3	31-4	31-5	31-6	31-7	31-8	31-9	31-10	31-11
475.00	34-9	34-10	34-11	35-0	35-1	35-3	35-4	35-5	35-6	35-7
500.00	38-7	38-8	38-9	38-10	38-11	39-1	39-2	39-3	39-4	39-5
525.00	42-6	42-8	42-9	42-10	43-0	43-1	43-2	43-4	43-5	43-6
550.00	46-9	46-10	47-0	47-1	47-2	47-4	47-5	47-7	47-8	47-10
575.00	51-1	51-3	51-5	51-6	51-8	51-9	51-11	52-0	52-2	52-3
600.00	55-9	55-10	56-0	56-2	56-3	56-5	56-7	56-8	56-10	57-0
625.00	60-6	60-8	60-10	61-0	61-2	61-3	61-5	61-7	61-9	61-11

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-7	9-7	9-8	9-8	9-8	9-8	9-9	9-9	9-9	9-10
275.00	11-7	11-8	11-8	11-8	11-9	11-9	11-9	11-10	11-10	11-10
300.00	13-10	13-10	13-11	13-11	13-11	14-0	14-0	14-1	14-1	14-2
325.00	16-3	16-3	16-4	16-4	16-5	16-5	16-6	16-6	16-7	16-7
350.00	18-10	18-11	18-11	19-0	19-0	19-1	19-1	19-2	19-2	19-3
375.00	21-8	21-8	21-9	21-9	21-10	21-11	21-11	22-0	22-1	22-1
400.00	24-7	24-8	24-9	24-10	24-10	24-11	25-0	25-1	25-1	25-2
425.00	27-10	27-11	27-11	28-0	28-1	28-2	28-3	28-4	28-4	28-5
450.00	31-2	31-3	31-4	31-5	31-6	31-7	31-8	31-9	31-10	31-11
475.00	34-10	34-11	35-0	35-1	35-2	35-3	35-4	35-5	35-6	35-7
500.00	38-7	38-8	38-9	38-10	39-0	39-1	39-2	39-3	39-4	39-5
525.00	42-7	42-8	42-9	42-11	43-0	43-1	43-2	43-4	43-5	43-6
550.00	46-9	46-11	47-0	47-1	47-3	47-4	47-6	47-7	47-8	47-10
575.00	51-2	51-3	51-5	51-6	51-8	51-10	51-11	52-1	52-2	52-4
600.00	55-9	55-11	56-0	56-2	56-4	56-5	56-7	56-9	56-10	57-0
625.00	60-7	60-8	60-10	61-0	61-2	61-4	61-6	61-7	61-9	61-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.79

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.225	1.02	1500	1.02	1500*
20	0	0	0	0.629	0.51	1542	0.51	1542
30	0	0	0	0.629	0.55	1433	0.55	1436
40	0	0	0	0.629	0.59	1325	0.59	1333
50	0	0	0	0.629	0.64	1222	0.64	1233
60	0	0	0	0.629	0.7	1124	0.69	1138
70	0	0	0	0.629	0.76	1033	0.75	1049
80	0	0	0	0.629	0.83	950	0.81	965
90	0	0	0	0.629	0.9	874	0.88	889
100	0	0	0	0.629	0.98	806	0.96	820
110	0	0	0	0.629	1.05	746	1.04	758
120	0	0	0	0.629	1.13	693	1.12	704
130	0	0	0	0.629	1.22	647	1.2	656
167	0	0	0	0.629	1.5	524	1.47	536
212	0	0	0	0.629	1.8	437	1.77	446

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.225	4.09	1500	4.09	1500*
20	0	0	0	0.629	3.01	1045	2.98	1055
30	0	0	0	0.629	3.14	1002	3.11	1012
40	0	0	0	0.629	3.27	963	3.24	972
50	0	0	0	0.629	3.4	927	3.37	935
60	0	0	0	0.629	3.52	893	3.49	901
70	0	0	0	0.629	3.65	863	3.62	870
80	0	0	0	0.629	3.78	834	3.75	841
90	0	0	0	0.629	3.9	808	3.87	814
100	0	0	0	0.629	4.02	784	3.99	789
110	0	0	0	0.629	4.14	761	4.11	766
120	0	0	0	0.629	4.26	740	4.23	744
130	0	0	0	0.629	4.37	720	4.35	724
167	0	0	0	0.629	4.79	658	4.75	663
212	0	0	0	0.629	5.22	604	5.18	608

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.80

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.225	9.22	1500	9.22	1500*
20	0	0	0	0.629	8.03	884	7.99	888
30	0	0	0	0.629	8.17	868	8.13	873
40	0	0	0	0.629	8.32	853	8.28	857
50	0	0	0	0.629	8.46	839	8.42	843
60	0	0	0	0.629	8.6	826	8.56	829
70	0	0	0	0.629	8.74	813	8.7	816
80	0	0	0	0.629	8.88	800	8.84	803
90	0	0	0	0.629	9.01	788	8.98	791
100	0	0	0	0.629	9.14	777	9.11	779
110	0	0	0	0.629	9.28	766	9.25	768
120	0	0	0	0.629	9.41	755	9.38	757
130	0	0	0	0.629	9.54	745	9.52	747
167	0	0	0	0.629	10.01	710	9.98	712
212	0	0	0	0.629	10.51	676	10.47	679

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.225	16.44	1500	16.44	1500*
20	0	0	0	0.629	15.23	831	15.18	833
30	0	0	0	0.629	15.37	823	15.33	826
40	0	0	0	0.629	15.52	816	15.47	818
50	0	0	0	0.629	15.66	808	15.62	810
60	0	0	0	0.629	15.8	801	15.76	803
70	0	0	0	0.629	15.94	794	15.91	796
80	0	0	0	0.629	16.09	787	16.05	789
90	0	0	0	0.629	16.23	780	16.19	782
100	0	0	0	0.629	16.36	774	16.33	775
110	0	0	0	0.629	16.5	768	16.47	769
120	0	0	0	0.629	16.64	761	16.61	763
130	0	0	0	0.629	16.77	755	16.75	756
167	0	0	0	0.629	17.27	734	17.24	735
212	0	0	0	0.629	17.81	712	17.77	713

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.81

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.225	25.79	1500	25.79	1500*
20	0	0	0	0.629	24.57	808	24.52	809
30	0	0	0	0.629	24.71	803	24.67	805
40	0	0	0	0.629	24.86	799	24.81	800
50	0	0	0	0.629	25	794	24.96	795
60	0	0	0	0.629	25.14	790	25.1	791
70	0	0	0	0.629	25.29	785	25.25	786
80	0	0	0	0.629	25.43	781	25.39	782
90	0	0	0	0.629	25.57	777	25.54	778
100	0	0	0	0.629	25.71	773	25.68	774
110	0	0	0	0.629	25.85	768	25.82	769
120	0	0	0	0.629	25.99	764	25.96	765
130	0	0	0	0.629	26.13	760	26.11	761
167	0	0	0	0.629	26.64	746	26.61	747
212	0	0	0	0.629	27.2	731	27.16	732

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.82

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
100.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-0
125.00	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-7
150.00	1-2	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-2	2-4
175.00	1-7	1-8	1-10	1-11	2-1	2-4	2-6	2-9	2-11	3-2
200.00	2-0	2-2	2-4	2-7	2-9	3-0	3-3	3-6	3-10	4-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
100.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
125.00	0-10	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-8
150.00	1-2	1-3	1-4	1-5	1-7	1-9	1-10	2-0	2-2	2-4
175.00	1-7	1-8	1-10	2-0	2-2	2-4	2-6	2-9	3-0	3-3
200.00	2-0	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-11	4-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.83

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-9	0-10	0-10	0-10	0-11	0-11	1-0	1-0	1-0
125.00	1-2	1-3	1-3	1-4	1-4	1-5	1-6	1-6	1-7	1-7
150.00	1-8	1-9	1-10	1-11	2-0	2-0	2-1	2-2	2-3	2-4
175.00	2-3	2-5	2-6	2-7	2-8	2-9	2-10	3-0	3-1	3-2
200.00	3-0	3-1	3-3	3-4	3-6	3-7	3-9	3-10	4-0	4-1
225.00	3-9	3-11	4-1	4-3	4-5	4-7	4-9	4-11	5-1	5-3
250.00	4-8	4-10	5-1	5-3	5-6	5-8	5-10	6-1	6-3	6-5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-9	0-10	0-10	0-11	0-11	0-11	1-0	1-0	1-0
125.00	1-2	1-3	1-3	1-4	1-5	1-5	1-6	1-6	1-7	1-7
150.00	1-8	1-9	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-4
175.00	2-4	2-5	2-6	2-7	2-8	2-10	2-11	3-0	3-1	3-2
200.00	3-0	3-2	3-3	3-5	3-6	3-8	3-9	3-11	4-0	4-2
225.00	3-10	4-0	4-2	4-4	4-6	4-7	4-9	4-11	5-1	5-3
250.00	4-8	4-11	5-1	5-4	5-6	5-8	5-11	6-1	6-3	6-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.84

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-0	2-1	2-1	2-2	2-2	2-2	2-3	2-3	2-4
175.00	2-9	2-9	2-10	2-10	2-11	3-0	3-0	3-1	3-1	3-2
200.00	3-7	3-7	3-8	3-9	3-10	3-10	3-11	4-0	4-1	4-1
225.00	4-6	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-1	5-2
250.00	5-7	5-8	5-9	5-10	5-11	6-0	6-2	6-3	6-4	6-5
275.00	6-9	6-10	6-11	7-1	7-2	7-4	7-5	7-7	7-8	7-9
300.00	8-0	8-2	8-3	8-5	8-7	8-8	8-10	9-0	9-1	9-3
325.00	9-5	9-7	9-9	9-11	10-1	10-3	10-5	10-6	10-8	10-10
350.00	10-11	11-1	11-3	11-6	11-8	11-10	12-0	12-3	12-5	12-7
375.00	12-6	12-9	12-11	13-2	13-5	13-7	13-10	14-0	14-3	14-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-1	2-1	2-1	2-2	2-2	2-3	2-3	2-3	2-4
175.00	2-9	2-9	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2
200.00	3-7	3-8	3-8	3-9	3-10	3-11	3-11	4-0	4-1	4-1
225.00	4-6	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3
250.00	5-7	5-8	5-9	5-10	6-0	6-1	6-2	6-3	6-4	6-5
275.00	6-9	6-10	7-0	7-1	7-3	7-4	7-5	7-7	7-8	7-10
300.00	8-0	8-2	8-4	8-6	8-7	8-9	8-11	9-0	9-2	9-3
325.00	9-5	9-7	9-9	9-11	10-1	10-3	10-5	10-7	10-9	10-11
350.00	10-11	11-2	11-4	11-6	11-9	11-11	12-1	12-3	12-5	12-8
375.00	12-7	12-9	13-0	13-3	13-5	13-8	13-11	14-1	14-4	14-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.85

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-0	4-1	4-1
225.00	4-10	4-10	4-11	4-11	5-0	5-0	5-1	5-1	5-2	5-2
250.00	5-11	6-0	6-0	6-1	6-2	6-2	6-3	6-4	6-4	6-5
275.00	7-2	7-3	7-4	7-4	7-5	7-6	7-7	7-8	7-9	7-9
300.00	8-6	8-7	8-8	8-9	8-10	8-11	9-0	9-1	9-2	9-3
325.00	10-0	10-1	10-2	10-4	10-5	10-6	10-7	10-8	10-9	10-10
350.00	11-7	11-9	11-10	11-11	12-1	12-2	12-3	12-5	12-6	12-7
375.00	13-4	13-6	13-7	13-9	13-10	14-0	14-1	14-3	14-4	14-6
400.00	15-2	15-4	15-6	15-7	15-9	15-11	16-1	16-2	16-4	16-6
425.00	17-2	17-4	17-6	17-8	17-10	18-0	18-1	18-3	18-5	18-7
450.00	19-3	19-5	19-7	19-9	20-0	20-2	20-4	20-6	20-8	20-10
475.00	21-5	21-8	21-10	22-1	22-3	22-5	22-8	22-10	23-1	23-3
500.00	23-9	24-0	24-2	24-5	24-8	24-11	25-1	25-4	25-7	25-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-10	3-10	3-10	3-11	3-11	4-0	4-0	4-1	4-1	4-1
225.00	4-10	4-10	4-11	4-11	5-0	5-0	5-1	5-2	5-2	5-3
250.00	5-11	6-0	6-1	6-1	6-2	6-3	6-3	6-4	6-5	6-5
275.00	7-2	7-3	7-4	7-5	7-6	7-6	7-7	7-8	7-9	7-9
300.00	8-7	8-8	8-9	8-10	8-11	9-0	9-0	9-1	9-2	9-3
325.00	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-10	10-11
350.00	11-8	11-9	11-10	12-0	12-1	12-2	12-4	12-5	12-6	12-8
375.00	13-5	13-6	13-8	13-9	13-11	14-0	14-2	14-3	14-5	14-6
400.00	15-3	15-4	15-6	15-8	15-10	15-11	16-1	16-3	16-4	16-6
425.00	17-2	17-4	17-6	17-8	17-10	18-0	18-2	18-4	18-6	18-8
450.00	19-3	19-6	19-8	19-10	20-0	20-2	20-4	20-7	20-9	20-11
475.00	21-6	21-8	21-11	22-1	22-4	22-6	22-8	22-11	23-1	23-3
500.00	23-10	24-1	24-3	24-6	24-9	24-11	25-2	25-5	25-7	25-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.86

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-4	6-5	6-5
275.00	7-5	7-5	7-6	7-6	7-7	7-7	7-8	7-8	7-9	7-10
300.00	8-10	8-10	8-11	9-0	9-0	9-1	9-1	9-2	9-3	9-3
325.00	10-4	10-5	10-6	10-6	10-7	10-8	10-8	10-9	10-10	10-11
350.00	12-0	12-1	12-2	12-3	12-3	12-4	12-5	12-6	12-7	12-8
375.00	13-9	13-10	13-11	14-0	14-1	14-2	14-3	14-4	14-5	14-6
400.00	15-8	15-9	15-10	15-11	16-1	16-2	16-3	16-4	16-5	16-6
425.00	17-8	17-10	17-11	18-0	18-1	18-3	18-4	18-5	18-6	18-8
450.00	19-10	20-0	20-1	20-2	20-4	20-5	20-7	20-8	20-9	20-11
475.00	22-1	22-3	22-5	22-6	22-8	22-9	22-11	23-0	23-2	23-4
500.00	24-6	24-8	24-10	24-11	25-1	25-3	25-5	25-6	25-8	25-10
525.00	27-0	27-2	27-4	27-6	27-8	27-10	28-0	28-2	28-4	28-6
550.00	29-8	29-10	30-1	30-3	30-5	30-7	30-9	30-11	31-1	31-3
575.00	32-6	32-8	32-10	33-0	33-3	33-5	33-7	33-10	34-0	34-2
600.00	35-4	35-7	35-9	36-0	36-2	36-5	36-7	36-10	37-0	37-3
625.00	38-5	38-7	38-10	39-1	39-4	39-6	39-9	40-0	40-2	40-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-2	6-2	6-2	6-3	6-3	6-4	6-4	6-5	6-5	6-5
275.00	7-5	7-5	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-10
300.00	8-10	8-11	8-11	9-0	9-0	9-1	9-2	9-2	9-3	9-3
325.00	10-4	10-5	10-6	10-7	10-7	10-8	10-9	10-9	10-10	10-11
350.00	12-0	12-1	12-2	12-3	12-4	12-4	12-5	12-6	12-7	12-8
375.00	13-10	13-11	14-0	14-1	14-1	14-2	14-3	14-4	14-5	14-6
400.00	15-8	15-10	15-11	16-0	16-1	16-2	16-3	16-4	16-5	16-6
425.00	17-9	17-10	17-11	18-1	18-2	18-3	18-4	18-5	18-7	18-8
450.00	19-11	20-0	20-1	20-3	20-4	20-6	20-7	20-8	20-10	20-11
475.00	22-2	22-4	22-5	22-7	22-8	22-10	22-11	23-1	23-2	23-4
500.00	24-7	24-9	24-10	25-0	25-2	25-3	25-5	25-7	25-9	25-10
525.00	27-1	27-3	27-5	27-7	27-9	27-11	28-1	28-2	28-4	28-6
550.00	29-9	29-11	30-1	30-3	30-5	30-7	30-9	31-0	31-2	31-4
575.00	32-6	32-9	32-11	33-1	33-3	33-6	33-8	33-10	34-1	34-3
600.00	35-5	35-8	35-10	36-1	36-3	36-6	36-8	36-11	37-1	37-3
625.00	38-5	38-8	38-11	39-2	39-4	39-7	39-10	40-0	40-3	40-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.87

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.225	0.78	1963	0.77	2000*
20	0	0	0	0.629	0.37	2145	0.36	2172
30	0	0	0	0.629	0.39	2021	0.38	2059
40	0	0	0	0.629	0.41	1900	0.4	1946
50	0	0	0	0.629	0.44	1779	0.43	1833
60	0	0	0	0.629	0.47	1661	0.46	1721
70	0	0	0	0.629	0.51	1546	0.49	1610
80	0	0	0	0.629	0.55	1434	0.52	1501
90	0	0	0	0.629	0.59	1326	0.56	1394
100	0	0	0	0.629	0.64	1222	0.61	1290
110	0	0	0	0.629	0.7	1125	0.66	1191
120	0	0	0	0.629	0.76	1034	0.72	1097
130	0	0	0	0.629	0.83	950	0.78	1008
167	0	0	0	0.629	1.1	712	1.05	751
212	0	0	0	0.629	1.42	553	1.36	580

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.225	3.07	2000	3.07	2000*
20	0	0	0	0.629	1.83	1722	1.82	1732
30	0	0	0	0.629	1.93	1633	1.91	1647
40	0	0	0	0.629	2.03	1548	2.01	1565
50	0	0	0	0.629	2.14	1469	2.12	1488
60	0	0	0	0.629	2.26	1394	2.23	1414
70	0	0	0	0.629	2.38	1324	2.34	1344
80	0	0	0	0.629	2.5	1259	2.46	1279
90	0	0	0	0.629	2.62	1199	2.58	1219
100	0	0	0	0.629	2.75	1144	2.71	1162
110	0	0	0	0.629	2.88	1093	2.83	1110
120	0	0	0	0.629	3.01	1046	2.96	1062
130	0	0	0	0.629	3.14	1003	3.09	1018
167	0	0	0	0.629	3.61	872	3.57	881
212	0	0	0	0.629	4.12	764	4.07	774

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.88

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.225	6.91	2000	6.91	2000*
20	0	0	0	0.629	5.18	1368	5.13	1381
30	0	0	0	0.629	5.35	1325	5.3	1338
40	0	0	0	0.629	5.52	1284	5.46	1297
50	0	0	0	0.629	5.69	1246	5.63	1259
60	0	0	0	0.629	5.85	1211	5.8	1223
70	0	0	0	0.629	6.02	1177	5.96	1189
80	0	0	0	0.629	6.19	1146	6.13	1157
90	0	0	0	0.629	6.35	1116	6.29	1127
100	0	0	0	0.629	6.51	1088	6.46	1098
110	0	0	0	0.629	6.68	1062	6.62	1071
120	0	0	0	0.629	6.84	1037	6.78	1046
130	0	0	0	0.629	6.99	1014	6.94	1022
167	0	0	0	0.629	7.56	938	7.52	943
212	0	0	0	0.629	8.2	866	8.14	872

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.225	12.3	2000	12.3	2000*
20	0	0	0	0.629	10.41	1212	10.34	1220
30	0	0	0	0.629	10.6	1190	10.53	1198
40	0	0	0	0.629	10.79	1170	10.72	1177
50	0	0	0	0.629	10.97	1150	10.9	1157
60	0	0	0	0.629	11.16	1131	11.08	1138
70	0	0	0	0.629	11.34	1113	11.27	1120
80	0	0	0	0.629	11.52	1096	11.45	1102
90	0	0	0	0.629	11.7	1079	11.63	1086
100	0	0	0	0.629	11.87	1063	11.81	1069
110	0	0	0	0.629	12.05	1048	11.98	1054
120	0	0	0	0.629	12.22	1033	12.16	1038
130	0	0	0	0.629	12.39	1019	12.33	1024
167	0	0	0	0.629	13.01	971	12.97	974
212	0	0	0	0.629	13.72	921	13.66	925

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.89

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.225	19.25	2000	19.25	2000*
20	0	0	0	0.629	17.31	1141	17.23	1146
30	0	0	0	0.629	17.5	1128	17.43	1133
40	0	0	0	0.629	17.7	1116	17.62	1121
50	0	0	0	0.629	17.89	1105	17.81	1109
60	0	0	0	0.629	18.07	1093	18	1098
70	0	0	0	0.629	18.26	1082	18.19	1087
80	0	0	0	0.629	18.45	1071	18.37	1076
90	0	0	0	0.629	18.63	1061	18.56	1065
100	0	0	0	0.629	18.81	1051	18.75	1055
110	0	0	0	0.629	18.99	1041	18.93	1044
120	0	0	0	0.629	19.18	1031	19.11	1035
130	0	0	0	0.629	19.35	1022	19.29	1025
167	0	0	0	0.629	20	989	19.96	991
212	0	0	0	0.629	20.76	954	20.69	956

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.90

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4
100.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8
125.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	0-11	1-0
150.00	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-6
175.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	2-0
200.00	1-5	1-6	1-7	1-9	1-10	1-11	2-1	2-3	2-5	2-8

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
100.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8
125.00	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1
150.00	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7
175.00	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-2
200.00	1-6	1-7	1-8	1-9	1-11	2-0	2-2	2-4	2-7	2-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.91

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9
125.00	0-9	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1
150.00	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-5	1-6	1-7
175.00	1-5	1-6	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2
200.00	1-10	1-11	2-0	2-1	2-3	2-4	2-6	2-7	2-8	2-10
225.00	2-4	2-5	2-7	2-8	2-10	3-0	3-1	3-3	3-5	3-7
250.00	2-10	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-3	4-5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9
125.00	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1
150.00	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-7
175.00	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
200.00	1-10	1-11	2-0	2-2	2-3	2-5	2-6	2-7	2-9	2-11
225.00	2-4	2-5	2-7	2-9	2-10	3-0	3-2	3-4	3-6	3-8
250.00	2-10	3-0	3-2	3-4	3-6	3-9	3-11	4-1	4-4	4-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.92

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-8
175.00	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-2	2-2	2-3
200.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-10	2-11
225.00	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-8	3-9
250.00	3-7	3-8	3-10	3-11	4-0	4-2	4-3	4-4	4-6	4-7
275.00	4-4	4-5	4-7	4-9	4-10	5-0	5-2	5-3	5-5	5-7
300.00	5-2	5-4	5-6	5-8	5-10	6-0	6-2	6-3	6-5	6-7
325.00	6-0	6-3	6-5	6-7	6-10	7-0	7-2	7-5	7-7	7-9
350.00	7-0	7-3	7-5	7-8	7-11	8-1	8-4	8-7	8-9	9-0
375.00	8-0	8-3	8-6	8-10	9-1	9-4	9-7	9-10	10-1	10-4

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-8	1-8
175.00	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-3
200.00	2-4	2-5	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0
225.00	2-11	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9
250.00	3-7	3-9	3-10	3-11	4-1	4-2	4-4	4-5	4-6	4-8
275.00	4-4	4-6	4-8	4-9	4-11	5-1	5-2	5-4	5-6	5-7
300.00	5-2	5-4	5-6	5-8	5-10	6-0	6-2	6-4	6-6	6-8
325.00	6-1	6-3	6-6	6-8	6-10	7-1	7-3	7-5	7-8	7-10
350.00	7-1	7-3	7-6	7-9	8-0	8-2	8-5	8-8	8-10	9-1
375.00	8-1	8-4	8-7	8-11	9-2	9-5	9-8	9-11	10-2	10-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.93

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0
225.00	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-9	3-9
250.00	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-6	4-7	4-8
275.00	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
300.00	5-10	5-11	6-0	6-2	6-3	6-4	6-5	6-6	6-8	6-9
325.00	6-10	6-11	7-1	7-2	7-4	7-5	7-7	7-8	7-9	7-11
350.00	7-11	8-1	8-2	8-4	8-6	8-7	8-9	8-11	9-0	9-2
375.00	9-1	9-3	9-5	9-7	9-9	9-11	10-1	10-3	10-5	10-6
400.00	10-4	10-6	10-9	10-11	11-1	11-3	11-5	11-8	11-10	12-0
425.00	11-8	11-11	12-1	12-4	12-6	12-9	12-11	13-2	13-4	13-6
450.00	13-1	13-4	13-7	13-10	14-0	14-3	14-6	14-9	14-11	15-2
475.00	14-7	14-10	15-1	15-5	15-8	15-11	16-2	16-5	16-8	16-11
500.00	16-2	16-6	16-9	17-1	17-4	17-7	17-11	18-2	18-6	18-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-7	2-8	2-8	2-9	2-9	2-10	2-11	2-11	3-0	3-0
225.00	3-4	3-4	3-5	3-6	3-6	3-7	3-8	3-8	3-9	3-10
250.00	4-1	4-2	4-3	4-3	4-4	4-5	4-6	4-7	4-8	4-8
275.00	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
300.00	5-10	6-0	6-1	6-2	6-3	6-4	6-6	6-7	6-8	6-9
325.00	6-10	7-0	7-1	7-3	7-4	7-6	7-7	7-9	7-10	7-11
350.00	8-0	8-1	8-3	8-5	8-6	8-8	8-10	8-11	9-1	9-3
375.00	9-2	9-4	9-6	9-8	9-10	10-0	10-1	10-3	10-5	10-7
400.00	10-5	10-7	10-9	11-0	11-2	11-4	11-6	11-8	11-10	12-1
425.00	11-9	12-0	12-2	12-5	12-7	12-10	13-0	13-2	13-5	13-7
450.00	13-2	13-5	13-8	13-11	14-1	14-4	14-7	14-10	15-0	15-3
475.00	14-8	14-11	15-3	15-6	15-9	16-0	16-3	16-6	16-9	17-0
500.00	16-3	16-7	16-10	17-2	17-5	17-9	18-0	18-3	18-7	18-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.94

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-8	4-8	4-9
275.00	5-2	5-3	5-4	5-5	5-5	5-6	5-7	5-7	5-8	5-9
300.00	6-2	6-3	6-4	6-5	6-6	6-6	6-7	6-8	6-9	6-10
325.00	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0
350.00	8-5	8-6	8-8	8-9	8-10	8-11	9-0	9-1	9-2	9-3
375.00	9-8	9-10	9-11	10-0	10-1	10-3	10-4	10-5	10-6	10-8
400.00	11-0	11-2	11-3	11-5	11-6	11-8	11-9	11-10	12-0	12-1
425.00	12-5	12-7	12-9	12-10	13-0	13-2	13-3	13-5	13-6	13-8
450.00	13-11	14-1	14-3	14-5	14-7	14-9	14-11	15-0	15-2	15-4
475.00	15-7	15-9	15-11	16-1	16-3	16-5	16-7	16-9	16-11	17-1
500.00	17-3	17-5	17-7	17-10	18-0	18-2	18-4	18-7	18-9	18-11
525.00	19-0	19-3	19-5	19-8	19-10	20-1	20-3	20-6	20-8	20-10
550.00	20-10	21-1	21-4	21-7	21-9	22-0	22-3	22-6	22-8	22-11
575.00	22-10	23-1	23-4	23-7	23-10	24-1	24-4	24-7	24-10	25-1
600.00	24-10	25-1	25-5	25-8	25-11	26-3	26-6	26-9	27-0	27-3
625.00	26-11	27-3	27-7	27-10	28-2	28-5	28-9	29-0	29-4	29-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-4	4-4	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9
275.00	5-3	5-3	5-4	5-5	5-6	5-6	5-7	5-8	5-8	5-9
300.00	6-3	6-4	6-4	6-5	6-6	6-7	6-8	6-8	6-9	6-10
325.00	7-4	7-5	7-6	7-7	7-8	7-8	7-9	7-10	7-11	8-0
350.00	8-6	8-7	8-8	8-9	8-10	8-11	9-0	9-1	9-3	9-4
375.00	9-9	9-10	9-11	10-1	10-2	10-3	10-4	10-6	10-7	10-8
400.00	11-1	11-2	11-4	11-5	11-7	11-8	11-10	11-11	12-0	12-2
425.00	12-6	12-8	12-9	12-11	13-1	13-2	13-4	13-5	13-7	13-9
450.00	14-0	14-2	14-4	14-6	14-8	14-9	14-11	15-1	15-3	15-5
475.00	15-7	15-10	16-0	16-2	16-4	16-6	16-8	16-10	17-0	17-2
500.00	17-4	17-6	17-8	17-11	18-1	18-3	18-5	18-8	18-10	19-0
525.00	19-1	19-4	19-6	19-9	19-11	20-2	20-4	20-7	20-9	20-11
550.00	20-11	21-2	21-5	21-8	21-11	22-1	22-4	22-7	22-9	23-0
575.00	22-11	23-2	23-5	23-8	23-11	24-2	24-5	24-8	24-11	25-2
600.00	24-11	25-3	25-6	25-9	26-1	26-4	26-7	26-10	27-1	27-5
625.00	27-1	27-5	27-8	28-0	28-3	28-7	28-10	29-2	29-5	29-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.95

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.225	1.53	1000	1.53	1000*
0	0	0	0	0.629	1.07	732	1.06	740
30	0	0	0	0.629	1.32	597	1.3	604
40	0	0	0	0.629	1.4	563	1.38	569
50	0	0	0	0.629	1.48	533	1.46	538
60	0	0	0	0.629	1.55	506	1.54	511
70	0	0	0	0.629	1.63	483	1.62	487
80	0	0	0	0.629	1.7	462	1.69	465
90	0	0	0	0.629	1.78	443	1.77	445
100	0	0	0	0.629	1.85	426	1.84	428
110	0	0	0	0.629	1.92	411	1.91	412
120	0	0	0	0.629	1.99	397	1.97	399
130	0	0	0	0.629	2.05	384	2.03	387
167	0	0	0	0.629	2.26	348	2.24	351
212	0	0	0	0.629	2.5	315	2.48	318

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.225	6.15	1000	6.15	1000*
0	0	0	0	0.629	5.61	562	5.59	565
30	0	0	0	0.629	5.9	535	5.88	537
40	0	0	0	0.629	5.99	527	5.97	529
50	0	0	0	0.629	6.08	519	6.06	520
60	0	0	0	0.629	6.17	511	6.16	513
70	0	0	0	0.629	6.26	504	6.25	505
80	0	0	0	0.629	6.35	497	6.34	498
90	0	0	0	0.629	6.44	490	6.43	491
100	0	0	0	0.629	6.53	484	6.52	485
110	0	0	0	0.629	6.61	478	6.61	478
120	0	0	0	0.629	6.7	472	6.69	472
130	0	0	0	0.629	6.78	466	6.77	467
167	0	0	0	0.629	7.07	447	7.05	449
212	0	0	0	0.629	7.39	428	7.37	429

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.96

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.225	13.9	1000	13.9	1000*
0	0	0	0	0.629	13.35	534	13.33	535
30	0	0	0	0.629	13.64	523	13.62	524
40	0	0	0	0.629	13.74	519	13.72	520
50	0	0	0	0.629	13.83	516	13.81	517
60	0	0	0	0.629	13.93	513	13.91	513
70	0	0	0	0.629	14.02	509	14	510
80	0	0	0	0.629	14.11	506	14.1	506
90	0	0	0	0.629	14.2	503	14.19	503
100	0	0	0	0.629	14.3	499	14.29	500
110	0	0	0	0.629	14.39	496	14.38	497
120	0	0	0	0.629	14.48	493	14.47	493
130	0	0	0	0.629	14.57	490	14.56	491
167	0	0	0	0.629	14.88	480	14.86	481
212	0	0	0	0.629	15.24	469	15.22	470

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.225	24.88	1000	24.88	1000*
0	0	0	0	0.629	24.33	525	24.31	525
30	0	0	0	0.629	24.62	519	24.6	519
40	0	0	0	0.629	24.72	517	24.7	517
50	0	0	0	0.629	24.81	515	24.79	515
60	0	0	0	0.629	24.91	513	24.89	513
70	0	0	0	0.629	25	511	24.99	511
80	0	0	0	0.629	25.1	509	25.08	509
90	0	0	0	0.629	25.19	507	25.18	508
100	0	0	0	0.629	25.28	506	25.27	506
110	0	0	0	0.629	25.38	504	25.37	504
120	0	0	0	0.629	25.47	502	25.47	502
130	0	0	0	0.629	25.56	500	25.56	500
167	0	0	0	0.629	25.89	494	25.87	495
212	0	0	0	0.629	26.26	487	26.24	488

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.97

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.225	39.23	1000	39.23	1000*
0	0	0	0	0.629	38.68	520	38.65	521
30	0	0	0	0.629	38.97	517	38.94	517
40	0	0	0	0.629	39.06	516	39.04	516
50	0	0	0	0.629	39.16	514	39.14	515
60	0	0	0	0.629	39.25	513	39.24	513
70	0	0	0	0.629	39.35	512	39.33	512
80	0	0	0	0.629	39.44	511	39.43	511
90	0	0	0	0.629	39.54	510	39.53	510
100	0	0	0	0.629	39.63	508	39.62	509
110	0	0	0	0.629	39.73	507	39.72	507
120	0	0	0	0.629	39.82	506	39.82	506
130	0	0	0	0.629	39.91	505	39.91	505
167	0	0	0	0.629	40.24	501	40.22	501
212	0	0	0	0.629	40.63	497	40.61	497

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.98

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1
100.00	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-11
125.00	1-11	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-11	3-0
150.00	2-9	2-11	3-1	3-3	3-6	3-8	3-10	4-0	4-2	4-4
175.00	3-9	4-0	4-3	4-6	4-9	4-11	5-2	5-5	5-8	5-10
200.00	4-11	5-3	5-6	5-10	6-2	6-6	6-9	7-1	7-4	7-8

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-0	1-1
100.00	1-3	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11
125.00	1-11	2-1	2-2	2-4	2-5	2-7	2-8	2-9	2-11	3-0
150.00	2-9	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2	4-4
175.00	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-5	5-8	5-11
200.00	4-11	5-3	5-7	5-11	6-3	6-6	6-10	7-1	7-5	7-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.99

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-6	1-6	1-6	1-6	1-7	1-7	1-7	1-8	1-8
125.00	2-3	2-4	2-4	2-4	2-5	2-5	2-6	2-6	2-7	2-7
150.00	3-3	3-4	3-4	3-5	3-6	3-6	3-7	3-7	3-8	3-9
175.00	4-5	4-6	4-7	4-8	4-9	4-9	4-10	4-11	5-0	5-1
200.00	5-9	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7
225.00	7-4	7-5	7-7	7-8	7-10	7-11	8-0	8-2	8-3	8-4
250.00	9-0	9-2	9-4	9-6	9-8	9-9	9-11	10-1	10-2	10-4

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-6	1-6	1-6	1-7	1-7	1-7	1-7	1-8	1-8
125.00	2-3	2-4	2-4	2-4	2-5	2-5	2-6	2-6	2-7	2-7
150.00	3-3	3-4	3-4	3-5	3-6	3-6	3-7	3-7	3-8	3-9
175.00	4-5	4-6	4-7	4-8	4-9	4-10	4-10	4-11	5-0	5-1
200.00	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7
225.00	7-4	7-6	7-7	7-8	7-10	7-11	8-1	8-2	8-3	8-4
250.00	9-1	9-3	9-4	9-6	9-8	9-10	9-11	10-1	10-2	10-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.100

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-5	3-5	3-5	3-6	3-6	3-6	3-6	3-7	3-7
175.00	4-7	4-8	4-8	4-8	4-9	4-9	4-9	4-10	4-10	4-11
200.00	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5
225.00	7-7	7-8	7-8	7-9	7-10	7-10	7-11	8-0	8-0	8-1
250.00	9-5	9-5	9-6	9-7	9-8	9-9	9-9	9-10	9-11	10-0
275.00	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1
300.00	13-6	13-7	13-9	13-10	13-11	14-0	14-1	14-2	14-3	14-5
325.00	15-11	16-0	16-1	16-3	16-4	16-5	16-7	16-8	16-9	16-11
350.00	18-5	18-7	18-8	18-10	18-11	19-1	19-3	19-4	19-6	19-7
375.00	21-2	21-4	21-6	21-7	21-9	21-11	22-1	22-3	22-4	22-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-5	3-5	3-5	3-5	3-6	3-6	3-6	3-7	3-7	3-7
175.00	4-7	4-8	4-8	4-8	4-9	4-9	4-10	4-10	4-10	4-11
200.00	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5
225.00	7-7	7-8	7-9	7-9	7-10	7-11	7-11	8-0	8-0	8-1
250.00	9-5	9-6	9-6	9-7	9-8	9-9	9-9	9-10	9-11	10-0
275.00	11-5	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1
300.00	13-7	13-8	13-9	13-10	13-11	14-0	14-1	14-2	14-4	14-5
325.00	15-11	16-0	16-2	16-3	16-4	16-6	16-7	16-8	16-9	16-11
350.00	18-5	18-7	18-9	18-10	19-0	19-1	19-3	19-4	19-6	19-7
375.00	21-2	21-4	21-6	21-8	21-10	21-11	22-1	22-3	22-5	22-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.101

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-1	6-2	6-2	6-2	6-2	6-3	6-3	6-3	6-4	6-4
225.00	7-9	7-9	7-9	7-10	7-10	7-11	7-11	7-11	8-0	8-0
250.00	9-7	9-7	9-7	9-8	9-8	9-9	9-9	9-10	9-10	9-11
275.00	11-7	11-7	11-8	11-8	11-9	11-9	11-10	11-10	11-11	11-11
300.00	13-9	13-10	13-10	13-11	14-0	14-0	14-1	14-2	14-2	14-3
325.00	16-2	16-3	16-3	16-4	16-5	16-6	16-6	16-7	16-8	16-9
350.00	18-9	18-10	18-11	19-0	19-0	19-1	19-2	19-3	19-4	19-5
375.00	21-6	21-7	21-8	21-9	21-10	21-11	22-0	22-1	22-2	22-3
400.00	24-6	24-7	24-8	24-10	24-11	25-0	25-1	25-2	25-3	25-4
425.00	27-8	27-9	27-11	28-0	28-1	28-3	28-4	28-5	28-7	28-8
450.00	31-1	31-2	31-4	31-5	31-7	31-8	31-9	31-11	32-0	32-2
475.00	34-7	34-9	34-11	35-0	35-2	35-4	35-5	35-7	35-9	35-10
500.00	38-5	38-7	38-8	38-10	39-0	39-2	39-4	39-5	39-7	39-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-1	6-2	6-2	6-2	6-2	6-3	6-3	6-3	6-4	6-4
225.00	7-9	7-9	7-10	7-10	7-10	7-11	7-11	7-11	8-0	8-0
250.00	9-7	9-7	9-8	9-8	9-8	9-9	9-9	9-10	9-10	9-11
275.00	11-7	11-7	11-8	11-8	11-9	11-9	11-10	11-10	11-11	12-0
300.00	13-9	13-10	13-10	13-11	14-0	14-0	14-1	14-2	14-2	14-3
325.00	16-2	16-3	16-3	16-4	16-5	16-6	16-6	16-7	16-8	16-9
350.00	18-9	18-10	18-11	19-0	19-1	19-1	19-2	19-3	19-4	19-5
375.00	21-6	21-8	21-9	21-10	21-11	22-0	22-1	22-2	22-2	22-3
400.00	24-6	24-7	24-9	24-10	24-11	25-0	25-1	25-2	25-3	25-5
425.00	27-8	27-10	27-11	28-0	28-2	28-3	28-4	28-5	28-7	28-8
450.00	31-1	31-2	31-4	31-5	31-7	31-8	31-10	31-11	32-1	32-2
475.00	34-8	34-9	34-11	35-1	35-2	35-4	35-6	35-7	35-9	35-10
500.00	38-5	38-7	38-9	38-11	39-0	39-2	39-4	39-6	39-7	39-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.102

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-8	9-8	9-8	9-9	9-9	9-9	9-10	9-10	9-10	9-10
275.00	11-8	11-9	11-9	11-9	11-10	11-10	11-10	11-11	11-11	11-11
300.00	13-11	13-11	14-0	14-0	14-1	14-1	14-1	14-2	14-2	14-3
325.00	16-4	16-5	16-5	16-6	16-6	16-6	16-7	16-7	16-8	16-8
350.00	18-11	19-0	19-1	19-1	19-2	19-2	19-3	19-3	19-4	19-5
375.00	21-9	21-10	21-11	21-11	22-0	22-1	22-1	22-2	22-2	22-3
400.00	24-9	24-10	24-11	25-0	25-0	25-1	25-2	25-3	25-3	25-4
425.00	28-0	28-1	28-2	28-3	28-3	28-4	28-5	28-6	28-7	28-8
450.00	31-5	31-6	31-7	31-8	31-9	31-10	31-11	32-0	32-1	32-1
475.00	35-0	35-1	35-2	35-4	35-5	35-6	35-7	35-8	35-9	35-10
500.00	38-10	38-11	39-0	39-2	39-3	39-4	39-5	39-6	39-7	39-9
525.00	42-10	43-0	43-1	43-2	43-4	43-5	43-6	43-7	43-9	43-10
550.00	47-1	47-2	47-4	47-5	47-7	47-8	47-10	47-11	48-0	48-2
575.00	51-6	51-8	51-9	51-11	52-0	52-2	52-3	52-5	52-6	52-8
600.00	56-2	56-3	56-5	56-7	56-8	56-10	57-0	57-1	57-3	57-5
625.00	61-0	61-1	61-3	61-5	61-7	61-9	61-11	62-1	62-2	62-4

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-8	9-8	9-8	9-9	9-9	9-9	9-10	9-10	9-10	9-10
275.00	11-8	11-9	11-9	11-9	11-10	11-10	11-10	11-11	11-11	11-11
300.00	13-11	13-11	14-0	14-0	14-1	14-1	14-2	14-2	14-2	14-3
325.00	16-4	16-5	16-5	16-6	16-6	16-7	16-7	16-8	16-8	16-8
350.00	19-0	19-0	19-1	19-1	19-2	19-2	19-3	19-4	19-4	19-5
375.00	21-9	21-10	21-11	21-11	22-0	22-1	22-1	22-2	22-3	22-3
400.00	24-10	24-10	24-11	25-0	25-1	25-1	25-2	25-3	25-3	25-4
425.00	28-0	28-1	28-2	28-3	28-4	28-4	28-5	28-6	28-7	28-8
450.00	31-5	31-6	31-7	31-8	31-9	31-10	31-11	32-0	32-1	32-2
475.00	35-1	35-2	35-3	35-4	35-5	35-6	35-7	35-8	35-9	35-10
500.00	38-10	39-0	39-1	39-2	39-3	39-4	39-5	39-6	39-8	39-9
525.00	42-11	43-0	43-1	43-2	43-4	43-5	43-6	43-8	43-9	43-10
550.00	47-1	47-3	47-4	47-6	47-7	47-8	47-10	47-11	48-0	48-2
575.00	51-6	51-8	51-10	51-11	52-1	52-2	52-4	52-5	52-7	52-8
600.00	56-2	56-4	56-5	56-7	56-9	56-10	57-0	57-2	57-3	57-5
625.00	61-0	61-2	61-4	61-6	61-7	61-9	61-11	62-1	62-3	62-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.103

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.225	1.02	1500	1.02	1500*
0	0	0	0	0.629	0.55	1433	0.55	1435
30	0	0	0	0.629	0.7	1124	0.69	1141
40	0	0	0	0.629	0.76	1033	0.75	1052
50	0	0	0	0.629	0.83	950	0.81	969
60	0	0	0	0.629	0.9	874	0.88	893
70	0	0	0	0.629	0.98	806	0.95	824
80	0	0	0	0.629	1.05	746	1.03	762
90	0	0	0	0.629	1.13	693	1.11	707
100	0	0	0	0.629	1.22	647	1.19	659
110	0	0	0	0.629	1.3	606	1.28	617
120	0	0	0	0.629	1.38	571	1.36	580
130	0	0	0	0.629	1.46	540	1.44	547
167	0	0	0	0.629	1.72	457	1.69	467
212	0	0	0	0.629	2	393	1.97	400

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.225	4.09	1500	4.09	1500*
0	0	0	0	0.629	3.14	1002	3.11	1012
30	0	0	0	0.629	3.52	893	3.49	902
40	0	0	0	0.629	3.65	863	3.61	871
50	0	0	0	0.629	3.78	834	3.74	842
60	0	0	0	0.629	3.9	808	3.86	815
70	0	0	0	0.629	4.02	784	3.99	790
80	0	0	0	0.629	4.14	761	4.11	767
90	0	0	0	0.629	4.26	740	4.23	745
100	0	0	0	0.629	4.37	720	4.35	725
110	0	0	0	0.629	4.49	702	4.46	706
120	0	0	0	0.629	4.6	685	4.58	689
130	0	0	0	0.629	4.71	669	4.69	672
167	0	0	0	0.629	5.11	618	5.07	622
212	0	0	0	0.629	5.52	571	5.48	576

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.104

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.225	9.22	1500	9.22	1500*
0	0	0	0	0.629	8.17	868	8.13	873
30	0	0	0	0.629	8.6	826	8.56	830
40	0	0	0	0.629	8.74	813	8.7	817
50	0	0	0	0.629	8.88	800	8.83	804
60	0	0	0	0.629	9.01	788	8.97	792
70	0	0	0	0.629	9.14	777	9.11	780
80	0	0	0	0.629	9.28	766	9.24	769
90	0	0	0	0.629	9.41	755	9.37	758
100	0	0	0	0.629	9.54	745	9.51	747
110	0	0	0	0.629	9.67	735	9.64	737
120	0	0	0	0.629	9.79	726	9.77	728
130	0	0	0	0.629	9.92	716	9.9	718
167	0	0	0	0.629	10.38	685	10.34	688
212	0	0	0	0.629	10.86	655	10.82	657

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.225	16.44	1500	16.44	1500*
0	0	0	0	0.629	15.37	823	15.32	826
30	0	0	0	0.629	15.8	801	15.76	803
40	0	0	0	0.629	15.94	794	15.9	796
50	0	0	0	0.629	16.09	787	16.04	789
60	0	0	0	0.629	16.23	780	16.18	782
70	0	0	0	0.629	16.36	774	16.32	776
80	0	0	0	0.629	16.5	768	16.46	769
90	0	0	0	0.629	16.64	761	16.6	763
100	0	0	0	0.629	16.77	755	16.74	757
110	0	0	0	0.629	16.91	749	16.88	751
120	0	0	0	0.629	17.04	744	17.01	745
130	0	0	0	0.629	17.18	738	17.15	739
167	0	0	0	0.629	17.66	718	17.63	719
212	0	0	0	0.629	18.19	697	18.15	699

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.105

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.225	25.79	1500	25.79	1500*
0	0	0	0	0.629	24.71	803	24.66	805
30	0	0	0	0.629	25.14	790	25.1	791
40	0	0	0	0.629	25.29	785	25.24	787
50	0	0	0	0.629	25.43	781	25.38	782
60	0	0	0	0.629	25.57	777	25.53	778
70	0	0	0	0.629	25.71	773	25.67	774
80	0	0	0	0.629	25.85	768	25.81	770
90	0	0	0	0.629	25.99	764	25.95	766
100	0	0	0	0.629	26.13	760	26.1	761
110	0	0	0	0.629	26.27	757	26.24	757
120	0	0	0	0.629	26.41	753	26.38	754
130	0	0	0	0.629	26.54	749	26.52	750
167	0	0	0	0.629	27.04	735	27.01	736
212	0	0	0	0.629	27.6	721	27.56	722

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.106

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9
100.00	0-8	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3
125.00	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-9	1-10	2-0
150.00	1-5	1-7	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-10
175.00	1-11	2-1	2-3	2-6	2-8	2-11	3-2	3-5	3-8	3-11
200.00	2-7	2-9	3-0	3-3	3-6	3-10	4-2	4-5	4-9	5-1

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9
100.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
125.00	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-9	1-11	2-0
150.00	1-5	1-7	1-9	1-10	2-0	2-2	2-4	2-7	2-9	2-11
175.00	2-0	2-2	2-4	2-6	2-9	3-0	3-3	3-6	3-9	4-0
200.00	2-7	2-10	3-1	3-4	3-7	3-11	4-3	4-7	4-10	5-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-10	0-11	0-11	1-0	1-0	1-0	1-1	1-1	1-1
125.00	1-4	1-4	1-5	1-6	1-6	1-7	1-7	1-8	1-8	1-9
150.00	1-11	2-0	2-0	2-1	2-2	2-3	2-4	2-5	2-5	2-6
175.00	2-7	2-8	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-5
200.00	3-4	3-6	3-7	3-9	3-10	4-0	4-1	4-3	4-4	4-6
225.00	4-3	4-5	4-7	4-9	4-11	5-1	5-2	5-4	5-6	5-8
250.00	5-3	5-5	5-8	5-10	6-0	6-3	6-5	6-7	6-10	7-0

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	0-11	1-0	1-0	1-0	1-1	1-1	1-1
125.00	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-8	1-8	1-9
150.00	1-11	2-0	2-1	2-1	2-2	2-3	2-4	2-5	2-6	2-6
175.00	2-7	2-8	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5
200.00	3-5	3-6	3-8	3-9	3-11	4-0	4-2	4-3	4-4	4-6
225.00	4-4	4-6	4-7	4-9	4-11	5-1	5-3	5-5	5-6	5-8
250.00	5-4	5-6	5-8	5-11	6-1	6-3	6-6	6-8	6-10	7-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.108

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-1	2-2	2-2	2-2	2-3	2-3	2-4	2-4	2-4	2-5
175.00	2-10	2-11	2-11	3-0	3-1	3-1	3-2	3-2	3-3	3-3
200.00	3-9	3-10	3-10	3-11	4-0	4-1	4-1	4-2	4-3	4-3
225.00	4-9	4-10	4-11	5-0	5-1	5-1	5-2	5-3	5-4	5-5
250.00	5-10	5-11	6-0	6-2	6-3	6-4	6-5	6-6	6-7	6-8
275.00	7-1	7-2	7-4	7-5	7-6	7-8	7-9	7-11	8-0	8-1
300.00	8-5	8-7	8-8	8-10	9-0	9-1	9-3	9-4	9-6	9-8
325.00	9-11	10-1	10-2	10-4	10-6	10-8	10-10	11-0	11-2	11-4
350.00	11-6	11-8	11-10	12-0	12-3	12-5	12-7	12-9	12-11	13-1
375.00	13-2	13-5	13-7	13-10	14-0	14-3	14-5	14-8	14-10	15-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-1	2-2	2-2	2-3	2-3	2-3	2-4	2-4	2-5	2-5
175.00	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3
200.00	3-9	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-3	4-4
225.00	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-3	5-4	5-5
250.00	5-10	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-9
275.00	7-1	7-3	7-4	7-5	7-7	7-8	7-10	7-11	8-0	8-1
300.00	8-6	8-7	8-9	8-11	9-0	9-2	9-3	9-5	9-6	9-8
325.00	9-11	10-1	10-3	10-5	10-7	10-9	10-11	11-1	11-2	11-4
350.00	11-6	11-9	11-11	12-1	12-3	12-5	12-8	12-10	13-0	13-2
375.00	13-3	13-5	13-8	13-11	14-1	14-4	14-6	14-9	14-11	15-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.109

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-11	3-11	4-0	4-0	4-0	4-1	4-1	4-2	4-2	4-3
225.00	4-11	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4
250.00	6-1	6-2	6-2	6-3	6-4	6-4	6-5	6-6	6-6	6-7
275.00	7-4	7-5	7-6	7-7	7-8	7-8	7-9	7-10	7-11	8-0
300.00	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6
325.00	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-1	11-2
350.00	11-11	12-1	12-2	12-3	12-5	12-6	12-7	12-8	12-10	12-11
375.00	13-9	13-10	14-0	14-1	14-3	14-4	14-6	14-7	14-9	14-10
400.00	15-7	15-9	15-11	16-1	16-2	16-4	16-6	16-7	16-9	16-11
425.00	17-8	17-10	17-11	18-1	18-3	18-5	18-7	18-9	18-11	19-1
450.00	19-9	19-11	20-2	20-4	20-6	20-8	20-10	21-0	21-2	21-4
475.00	22-0	22-3	22-5	22-8	22-10	23-0	23-3	23-5	23-8	23-10
500.00	24-5	24-8	24-10	25-1	25-4	25-6	25-9	26-0	26-2	26-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-11	3-11	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-3
225.00	4-11	5-0	5-0	5-1	5-2	5-2	5-3	5-3	5-4	5-4
250.00	6-1	6-2	6-3	6-3	6-4	6-5	6-5	6-6	6-7	6-7
275.00	7-5	7-6	7-6	7-7	7-8	7-9	7-9	7-10	7-11	8-0
300.00	8-10	8-11	9-0	9-0	9-1	9-2	9-3	9-4	9-5	9-6
325.00	10-4	10-5	10-6	10-7	10-8	10-10	10-11	11-0	11-1	11-2
350.00	12-0	12-1	12-2	12-4	12-5	12-6	12-8	12-9	12-10	12-11
375.00	13-9	13-11	14-0	14-2	14-3	14-5	14-6	14-7	14-9	14-10
400.00	15-8	15-10	15-11	16-1	16-3	16-4	16-6	16-8	16-9	16-11
425.00	17-8	17-10	18-0	18-2	18-4	18-6	18-8	18-9	18-11	19-1
450.00	19-10	20-0	20-2	20-4	20-7	20-9	20-11	21-1	21-3	21-5
475.00	22-1	22-4	22-6	22-8	22-11	23-1	23-3	23-6	23-8	23-10
500.00	24-6	24-9	24-11	25-2	25-5	25-7	25-10	26-0	26-3	26-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

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3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.110

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-3	6-3	6-4	6-4	6-4	6-5	6-5	6-6	6-6	6-6
275.00	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-11
300.00	9-0	9-0	9-1	9-1	9-2	9-3	9-3	9-4	9-4	9-5
325.00	10-6	10-7	10-8	10-8	10-9	10-10	10-11	10-11	11-0	11-1
350.00	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-8	12-9	12-10
375.00	14-0	14-1	14-2	14-3	14-4	14-5	14-6	14-7	14-8	14-9
400.00	15-11	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8	16-9
425.00	18-0	18-1	18-3	18-4	18-5	18-6	18-8	18-9	18-10	18-11
450.00	20-2	20-4	20-5	20-7	20-8	20-9	20-11	21-0	21-1	21-3
475.00	22-6	22-8	22-9	22-11	23-0	23-2	23-3	23-5	23-7	23-8
500.00	24-11	25-1	25-3	25-5	25-6	25-8	25-10	25-11	26-1	26-3
525.00	27-6	27-8	27-10	28-0	28-2	28-4	28-6	28-8	28-9	28-11
550.00	30-3	30-5	30-7	30-9	30-11	31-1	31-3	31-5	31-7	31-9
575.00	33-0	33-3	33-5	33-7	33-10	34-0	34-2	34-4	34-7	34-9
600.00	36-0	36-2	36-5	36-7	36-10	37-0	37-3	37-5	37-8	37-10
625.00	39-1	39-3	39-6	39-9	40-0	40-2	40-5	40-8	40-10	41-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-3	6-3	6-4	6-4	6-5	6-5	6-5	6-6	6-6	6-7
275.00	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-11	7-11
300.00	9-0	9-0	9-1	9-2	9-2	9-3	9-3	9-4	9-5	9-5
325.00	10-7	10-7	10-8	10-9	10-9	10-10	10-11	11-0	11-0	11-1
350.00	12-3	12-4	12-4	12-5	12-6	12-7	12-8	12-9	12-9	12-10
375.00	14-1	14-1	14-2	14-3	14-4	14-5	14-6	14-7	14-8	14-9
400.00	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8	16-9
425.00	18-1	18-2	18-3	18-4	18-5	18-7	18-8	18-9	18-10	19-0
450.00	20-3	20-4	20-6	20-7	20-8	20-10	20-11	21-0	21-2	21-3
475.00	22-7	22-8	22-10	22-11	23-1	23-2	23-4	23-5	23-7	23-8
500.00	25-0	25-2	25-3	25-5	25-7	25-9	25-10	26-0	26-2	26-3
525.00	27-7	27-9	27-11	28-1	28-2	28-4	28-6	28-8	28-10	29-0
550.00	30-3	30-5	30-7	30-9	31-0	31-2	31-4	31-6	31-8	31-10
575.00	33-1	33-3	33-6	33-8	33-10	34-1	34-3	34-5	34-7	34-9
600.00	36-1	36-3	36-6	36-8	36-11	37-1	37-3	37-6	37-8	37-11
625.00	39-2	39-4	39-7	39-10	40-0	40-3	40-6	40-8	40-11	41-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.111

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.225	0.77	2000	0.77	2000*
0	0	0	0	0.629	0.38	2057	0.38	2057
30	0	0	0	0.629	0.46	1704	0.46	1723
40	0	0	0	0.629	0.5	1587	0.49	1613
50	0	0	0	0.629	0.53	1474	0.52	1505
60	0	0	0	0.629	0.58	1364	0.56	1399
70	0	0	0	0.629	0.62	1259	0.61	1296
80	0	0	0	0.629	0.68	1160	0.66	1197
90	0	0	0	0.629	0.74	1066	0.71	1104
100	0	0	0	0.629	0.8	980	0.77	1016
110	0	0	0	0.629	0.87	901	0.84	934
120	0	0	0	0.629	0.95	830	0.91	860
130	0	0	0	0.629	1.03	767	0.99	794
167	0	0	0	0.629	1.31	599	1.27	620
212	0	0	0	0.629	1.63	484	1.58	499

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.225	3.07	2000	3.07	2000*
0	0	0	0	0.629	1.93	1633	1.91	1648
30	0	0	0	0.629	2.26	1394	2.22	1416
40	0	0	0	0.629	2.38	1324	2.34	1347
50	0	0	0	0.629	2.5	1259	2.45	1283
60	0	0	0	0.629	2.62	1199	2.57	1222
70	0	0	0	0.629	2.75	1144	2.7	1166
80	0	0	0	0.629	2.88	1093	2.83	1114
90	0	0	0	0.629	3.01	1046	2.95	1066
100	0	0	0	0.629	3.14	1003	3.08	1021
110	0	0	0	0.629	3.27	964	3.21	980
120	0	0	0	0.629	3.39	928	3.34	942
130	0	0	0	0.629	3.52	894	3.47	907
167	0	0	0	0.629	3.98	791	3.94	800
212	0	0	0	0.629	4.46	706	4.41	715

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.112

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.225	6.91	2000	6.91	2000*
0	0	0	0	0.629	5.35	1325	5.29	1339
30	0	0	0	0.629	5.85	1211	5.79	1225
40	0	0	0	0.629	6.02	1177	5.95	1191
50	0	0	0	0.629	6.19	1146	6.12	1159
60	0	0	0	0.629	6.35	1116	6.28	1129
70	0	0	0	0.629	6.51	1088	6.44	1100
80	0	0	0	0.629	6.68	1062	6.61	1073
90	0	0	0	0.629	6.84	1037	6.77	1048
100	0	0	0	0.629	6.99	1014	6.93	1024
110	0	0	0	0.629	7.15	992	7.08	1001
120	0	0	0	0.629	7.3	971	7.24	979
130	0	0	0	0.629	7.46	951	7.4	959
167	0	0	0	0.629	8.01	886	7.96	891
212	0	0	0	0.629	8.61	825	8.55	830

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.225	12.3	2000	12.3	2000*
0	0	0	0	0.629	10.6	1190	10.52	1199
30	0	0	0	0.629	11.16	1131	11.07	1139
40	0	0	0	0.629	11.34	1113	11.26	1121
50	0	0	0	0.629	11.52	1096	11.44	1104
60	0	0	0	0.629	11.7	1079	11.62	1087
70	0	0	0	0.629	11.87	1063	11.79	1070
80	0	0	0	0.629	12.05	1048	11.97	1055
90	0	0	0	0.629	12.22	1033	12.15	1040
100	0	0	0	0.629	12.39	1019	12.32	1025
110	0	0	0	0.629	12.56	1005	12.49	1011
120	0	0	0	0.629	12.73	992	12.66	997
130	0	0	0	0.629	12.9	979	12.83	984
167	0	0	0	0.629	13.5	936	13.45	939
212	0	0	0	0.629	14.18	892	14.12	895

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.113

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.225	19.25	2000	19.25	2000*
0	0	0	0	0.629	17.5	1128	17.42	1134
30	0	0	0	0.629	18.07	1093	17.99	1098
40	0	0	0	0.629	18.26	1082	18.18	1087
50	0	0	0	0.629	18.45	1071	18.36	1076
60	0	0	0	0.629	18.63	1061	18.55	1066
70	0	0	0	0.629	18.81	1051	18.73	1055
80	0	0	0	0.629	18.99	1041	18.91	1045
90	0	0	0	0.629	19.18	1031	19.1	1035
100	0	0	0	0.629	19.35	1022	19.28	1026
110	0	0	0	0.629	19.53	1013	19.46	1016
120	0	0	0	0.629	19.71	1004	19.64	1007
130	0	0	0	0.629	19.88	995	19.82	998
167	0	0	0	0.629	20.52	964	20.47	967
212	0	0	0	0.629	21.25	932	21.18	935

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6
100.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10
125.00	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-3	1-4
150.00	1-0	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-11
175.00	1-4	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-4	2-7
200.00	1-9	1-10	1-11	2-1	2-3	2-5	2-8	2-10	3-1	3-4

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6
100.00	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-10
125.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
150.00	1-0	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-10	2-0
175.00	1-4	1-5	1-6	1-8	1-9	1-11	2-1	2-3	2-6	2-8
200.00	1-9	1-10	2-0	2-2	2-4	2-6	2-9	2-11	3-3	3-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.115

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10
125.00	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3
150.00	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10
175.00	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-4	2-6
200.00	2-1	2-3	2-4	2-5	2-7	2-8	2-10	2-11	3-1	3-3
225.00	2-8	2-10	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-1
250.00	3-4	3-6	3-8	3-10	4-0	4-3	4-5	4-7	4-10	5-0

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-9	0-10
125.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-3
150.00	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10
175.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-6
200.00	2-2	2-3	2-5	2-6	2-7	2-9	2-11	3-0	3-2	3-3
225.00	2-9	2-10	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2
250.00	3-4	3-6	3-9	3-11	4-1	4-4	4-6	4-8	4-11	5-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.116

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-5	1-6	1-6	1-7	1-7	1-8	1-8	1-9	1-9
175.00	1-11	2-0	2-0	2-1	2-2	2-2	2-3	2-4	2-4	2-5
200.00	2-6	2-7	2-8	2-9	2-9	2-10	2-11	3-0	3-1	3-2
225.00	3-2	3-3	3-4	3-5	3-6	3-7	3-9	3-10	3-11	4-0
250.00	3-11	4-0	4-2	4-3	4-4	4-6	4-7	4-8	4-10	4-11
275.00	4-9	4-10	5-0	5-2	5-3	5-5	5-7	5-8	5-10	5-11
300.00	5-7	5-9	5-11	6-1	6-3	6-5	6-7	6-9	6-11	7-1
325.00	6-7	6-10	7-0	7-2	7-4	7-7	7-9	7-11	8-2	8-4
350.00	7-8	7-11	8-1	8-4	8-7	8-9	9-0	9-3	9-5	9-8
375.00	8-9	9-1	9-4	9-7	9-10	10-1	10-4	10-7	10-10	11-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-6	1-6	1-7	1-7	1-8	1-8	1-8	1-9	1-9
175.00	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-5	2-5
200.00	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-2
225.00	3-2	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
250.00	3-11	4-1	4-2	4-4	4-5	4-6	4-8	4-9	4-10	5-0
275.00	4-9	4-11	5-1	5-2	5-4	5-6	5-7	5-9	5-11	6-0
300.00	5-8	5-10	6-0	6-2	6-4	6-6	6-8	6-10	7-0	7-2
325.00	6-8	6-10	7-1	7-3	7-5	7-8	7-10	8-0	8-3	8-5
350.00	7-9	8-0	8-2	8-5	8-8	8-10	9-1	9-4	9-6	9-9
375.00	8-11	9-2	9-5	9-8	9-11	10-2	10-5	10-8	10-11	11-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.117

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-9	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1
225.00	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10	3-11	3-11
250.00	4-3	4-4	4-5	4-6	4-6	4-7	4-8	4-9	4-10	4-11
275.00	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11
300.00	6-1	6-3	6-4	6-5	6-6	6-8	6-9	6-10	6-11	7-0
325.00	7-2	7-4	7-5	7-7	7-8	7-9	7-11	8-0	8-2	8-3
350.00	8-4	8-6	8-7	8-9	8-11	9-0	9-2	9-4	9-5	9-7
375.00	9-7	9-9	9-11	10-1	10-2	10-4	10-6	10-8	10-10	11-0
400.00	10-11	11-1	11-3	11-5	11-7	11-10	12-0	12-2	12-4	12-6
425.00	12-4	12-6	12-9	12-11	13-1	13-4	13-6	13-9	13-11	14-1
450.00	13-9	14-0	14-3	14-6	14-8	14-11	15-2	15-5	15-7	15-10
475.00	15-4	15-7	15-11	16-2	16-5	16-8	16-11	17-2	17-5	17-7
500.00	17-0	17-4	17-7	17-11	18-2	18-5	18-9	19-0	19-3	19-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-9	2-9	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2
225.00	3-6	3-6	3-7	3-8	3-8	3-9	3-10	3-10	3-11	4-0
250.00	4-3	4-4	4-5	4-6	4-7	4-8	4-8	4-9	4-10	4-11
275.00	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11
300.00	6-2	6-3	6-4	6-6	6-7	6-8	6-9	6-10	7-0	7-1
325.00	7-3	7-4	7-6	7-7	7-9	7-10	7-11	8-1	8-2	8-3
350.00	8-5	8-6	8-8	8-10	8-11	9-1	9-3	9-4	9-6	9-7
375.00	9-8	9-10	10-0	10-1	10-3	10-5	10-7	10-9	10-11	11-0
400.00	11-0	11-2	11-4	11-6	11-8	11-10	12-1	12-3	12-5	12-7
425.00	12-5	12-7	12-10	13-0	13-2	13-5	13-7	13-10	14-0	14-2
450.00	13-11	14-1	14-4	14-7	14-10	15-0	15-3	15-6	15-8	15-11
475.00	15-6	15-9	16-0	16-3	16-6	16-9	17-0	17-3	17-6	17-9
500.00	17-2	17-5	17-9	18-0	18-3	18-7	18-10	19-1	19-5	19-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.118

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-5	4-6	4-6	4-7	4-8	4-8	4-9	4-9	4-10	4-10
275.00	5-5	5-5	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-11
300.00	6-5	6-6	6-6	6-7	6-8	6-9	6-10	6-10	6-11	7-0
325.00	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3
350.00	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6
375.00	10-0	10-1	10-3	10-4	10-5	10-6	10-8	10-9	10-10	10-11
400.00	11-5	11-6	11-8	11-9	11-10	12-0	12-1	12-3	12-4	12-5
425.00	12-10	13-0	13-2	13-3	13-5	13-6	13-8	13-9	13-11	14-1
450.00	14-5	14-7	14-9	14-10	15-0	15-2	15-4	15-6	15-7	15-9
475.00	16-1	16-3	16-5	16-7	16-9	16-11	17-1	17-3	17-5	17-7
500.00	17-10	18-0	18-2	18-4	18-7	18-9	18-11	19-1	19-3	19-6
525.00	19-8	19-10	20-1	20-3	20-5	20-8	20-10	21-1	21-3	21-5
550.00	21-7	21-9	22-0	22-3	22-5	22-8	22-11	23-1	23-4	23-7
575.00	23-7	23-10	24-1	24-4	24-7	24-9	25-0	25-3	25-6	25-9
600.00	25-8	25-11	26-2	26-6	26-9	27-0	27-3	27-6	27-9	28-1
625.00	27-10	28-2	28-5	28-9	29-0	29-4	29-7	29-10	30-2	30-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-6	4-6	4-7	4-7	4-8	4-8	4-9	4-9	4-10	4-11
275.00	5-5	5-6	5-6	5-7	5-8	5-8	5-9	5-10	5-10	5-11
300.00	6-5	6-6	6-7	6-8	6-8	6-9	6-10	6-11	7-0	7-0
325.00	7-7	7-8	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3
350.00	8-9	8-10	8-11	9-0	9-1	9-3	9-4	9-5	9-6	9-7
375.00	10-1	10-2	10-3	10-4	10-6	10-7	10-8	10-9	10-11	11-0
400.00	11-5	11-7	11-8	11-10	11-11	12-0	12-2	12-3	12-5	12-6
425.00	12-11	13-1	13-2	13-4	13-5	13-7	13-9	13-10	14-0	14-1
450.00	14-6	14-8	14-9	14-11	15-1	15-3	15-5	15-6	15-8	15-10
475.00	16-2	16-4	16-6	16-8	16-10	17-0	17-2	17-4	17-6	17-7
500.00	17-11	18-1	18-3	18-5	18-8	18-10	19-0	19-2	19-4	19-6
525.00	19-9	19-11	20-2	20-4	20-7	20-9	20-11	21-2	21-4	21-6
550.00	21-8	21-11	22-1	22-4	22-7	22-9	23-0	23-3	23-5	23-8
575.00	23-8	23-11	24-2	24-5	24-8	24-11	25-2	25-5	25-7	25-10
600.00	25-9	26-1	26-4	26-7	26-10	27-1	27-5	27-8	27-11	28-2
625.00	28-0	28-3	28-7	28-10	29-2	29-5	29-9	30-0	30-3	30-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.119

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.907	2.39	1000	2.39	1000*
20	0	0	0	0.629	1.87	420	1.85	425
30	0	0	0	0.629	1.94	405	1.92	410
40	0	0	0	0.629	2.01	392	1.99	396
50	0	0	0	0.629	2.08	380	2.06	383
60	0	0	0	0.629	2.14	368	2.12	371
70	0	0	0	0.629	2.2	358	2.19	360
80	0	0	0	0.629	2.26	348	2.25	350
90	0	0	0	0.629	2.32	339	2.31	341
100	0	0	0	0.629	2.38	331	2.37	332
110	0	0	0	0.629	2.44	323	2.43	325
120	0	0	0	0.629	2.5	316	2.48	318
130	0	0	0	0.629	2.55	309	2.53	312
167	0	0	0	0.629	2.73	289	2.71	291
212	0	0	0	0.629	2.93	269	2.91	271

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.907	9.63	1000	9.63	1000*
20	0	0	0	0.629	9.12	348	9.09	349
30	0	0	0	0.629	9.18	345	9.16	346
40	0	0	0	0.629	9.24	343	9.22	344
50	0	0	0	0.629	9.31	341	9.29	341
60	0	0	0	0.629	9.37	339	9.35	339
70	0	0	0	0.629	9.43	336	9.42	337
80	0	0	0	0.629	9.49	334	9.48	335
90	0	0	0	0.629	9.56	332	9.54	333
100	0	0	0	0.629	9.62	330	9.61	330
110	0	0	0	0.629	9.68	328	9.66	328
120	0	0	0	0.629	9.74	326	9.72	327
130	0	0	0	0.629	9.8	324	9.77	325
167	0	0	0	0.629	10	318	9.97	318
212	0	0	0	0.629	10.24	310	10.21	311

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.120

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.907	21.92	1000	21.92	1000*
20	0	0	0	0.629	21.41	337	21.39	338
30	0	0	0	0.629	21.47	336	21.45	337
40	0	0	0	0.629	21.54	335	21.52	336
50	0	0	0	0.629	21.6	334	21.58	335
60	0	0	0	0.629	21.66	333	21.64	334
70	0	0	0	0.629	21.72	333	21.71	333
80	0	0	0	0.629	21.79	332	21.77	332
90	0	0	0	0.629	21.85	331	21.83	331
100	0	0	0	0.629	21.91	330	21.9	330
110	0	0	0	0.629	21.97	329	21.96	329
120	0	0	0	0.629	22.03	328	22.01	328
130	0	0	0	0.629	22.09	327	22.07	328
167	0	0	0	0.629	22.3	324	22.27	325
212	0	0	0	0.629	22.54	321	22.52	321

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.907	39.65	1000	39.65	1000*
20	0	0	0	0.629	39.15	334	39.13	334
30	0	0	0	0.629	39.21	333	39.19	333
40	0	0	0	0.629	39.27	333	39.25	333
50	0	0	0	0.629	39.34	332	39.32	332
60	0	0	0	0.629	39.4	332	39.38	332
70	0	0	0	0.629	39.46	331	39.44	331
80	0	0	0	0.629	39.52	331	39.51	331
90	0	0	0	0.629	39.58	330	39.57	330
100	0	0	0	0.629	39.64	330	39.63	330
110	0	0	0	0.629	39.71	329	39.69	329
120	0	0	0	0.629	39.77	329	39.75	329
130	0	0	0	0.629	39.83	328	39.8	329
167	0	0	0	0.629	40.03	327	40.01	327
212	0	0	0	0.629	40.28	325	40.26	325

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.121

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.907	63.47	1000	63.47	1000*
20	0	0	0	0.629	62.97	332	62.94	332
30	0	0	0	0.629	63.03	332	63.01	332
40	0	0	0	0.629	63.09	332	63.07	332
50	0	0	0	0.629	63.15	331	63.13	331
60	0	0	0	0.629	63.21	331	63.2	331
70	0	0	0	0.629	63.27	331	63.26	331
80	0	0	0	0.629	63.34	330	63.32	330
90	0	0	0	0.629	63.4	330	63.38	330
100	0	0	0	0.629	63.46	330	63.45	330
110	0	0	0	0.629	63.52	330	63.51	330
120	0	0	0	0.629	63.58	329	63.56	329
130	0	0	0	0.629	63.64	329	63.62	329
167	0	0	0	0.629	63.85	328	63.82	328
212	0	0	0	0.629	64.1	327	64.08	327

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4
100.00	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-4	2-4	2-5
125.00	2-11	3-0	3-1	3-3	3-4	3-5	3-6	3-7	3-8	3-10
150.00	4-2	4-4	4-6	4-8	4-9	4-11	5-1	5-2	5-4	5-6
175.00	5-8	5-11	6-1	6-4	6-6	6-8	6-11	7-1	7-3	7-5
200.00	7-5	7-8	8-0	8-3	8-6	8-9	9-0	9-3	9-6	9-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-1	1-1	1-2	1-2	1-2	1-3	1-3	1-4	1-4	1-4
100.00	1-10	1-11	2-0	2-1	2-2	2-2	2-3	2-4	2-5	2-5
125.00	2-11	3-0	3-2	3-3	3-4	3-5	3-6	3-8	3-9	3-10
150.00	4-3	4-4	4-6	4-8	4-10	5-0	5-1	5-3	5-4	5-6
175.00	5-9	5-11	6-2	6-4	6-7	6-9	6-11	7-2	7-4	7-6
200.00	7-6	7-9	8-1	8-4	8-7	8-10	9-1	9-4	9-7	9-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.123

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-3	2-3	2-4	2-4	2-4	2-4	2-4	2-5	2-5	2-5
125.00	3-7	3-7	3-7	3-7	3-8	3-8	3-8	3-9	3-9	3-9
150.00	5-1	5-2	5-2	5-3	5-3	5-3	5-4	5-4	5-5	5-5
175.00	7-0	7-0	7-1	7-1	7-2	7-2	7-3	7-4	7-4	7-5
200.00	9-1	9-2	9-3	9-3	9-4	9-5	9-6	9-7	9-7	9-8
225.00	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3
250.00	14-3	14-4	14-5	14-6	14-8	14-9	14-10	14-11	15-0	15-2

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-3	2-3	2-4	2-4	2-4	2-4	2-4	2-5	2-5	2-5
125.00	3-7	3-7	3-7	3-8	3-8	3-8	3-8	3-9	3-9	3-9
150.00	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-4	5-5	5-5
175.00	7-0	7-0	7-1	7-1	7-2	7-3	7-3	7-4	7-4	7-5
200.00	9-1	9-2	9-3	9-4	9-4	9-5	9-6	9-7	9-7	9-8
225.00	11-7	11-8	11-9	11-9	11-10	11-11	12-0	12-1	12-2	12-3
250.00	14-3	14-4	14-6	14-7	14-8	14-9	14-10	14-11	15-1	15-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.124

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-4	5-4	5-4	5-4	5-5	5-5	5-5	5-5	5-5	5-6
175.00	7-3	7-3	7-3	7-4	7-4	7-4	7-4	7-5	7-5	7-5
200.00	9-6	9-6	9-6	9-7	9-7	9-7	9-8	9-8	9-8	9-9
225.00	12-0	12-0	12-1	12-1	12-2	12-2	12-3	12-3	12-3	12-4
250.00	14-10	14-10	14-11	14-11	15-0	15-1	15-1	15-2	15-2	15-3
275.00	17-11	18-0	18-1	18-1	18-2	18-3	18-3	18-4	18-5	18-5
300.00	21-5	21-5	21-6	21-7	21-8	21-8	21-9	21-10	21-11	21-11
325.00	25-2	25-2	25-3	25-4	25-5	25-6	25-7	25-8	25-9	25-10
350.00	29-2	29-3	29-4	29-5	29-6	29-7	29-8	29-10	29-11	30-0
375.00	33-7	33-8	33-9	33-10	33-11	34-1	34-2	34-3	34-4	34-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-4	5-4	5-4	5-4	5-5	5-5	5-5	5-5	5-5	5-6
175.00	7-3	7-3	7-4	7-4	7-4	7-4	7-5	7-5	7-5	7-5
200.00	9-6	9-6	9-6	9-7	9-7	9-7	9-8	9-8	9-8	9-9
225.00	12-0	12-1	12-1	12-1	12-2	12-2	12-3	12-3	12-3	12-4
250.00	14-10	14-11	14-11	15-0	15-0	15-1	15-1	15-2	15-2	15-3
275.00	18-0	18-0	18-1	18-2	18-2	18-3	18-3	18-4	18-5	18-5
300.00	21-5	21-6	21-6	21-7	21-8	21-9	21-9	21-10	21-11	22-0
325.00	25-2	25-3	25-4	25-5	25-5	25-6	25-7	25-8	25-9	25-10
350.00	29-3	29-4	29-5	29-6	29-7	29-8	29-9	29-10	29-11	30-0
375.00	33-7	33-8	33-9	33-11	34-0	34-1	34-2	34-3	34-4	34-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.125

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-8	9-8	9-9	9-9	9-9	9-9	9-9	9-10	9-10	9-10
225.00	12-3	12-4	12-4	12-4	12-4	12-4	12-5	12-5	12-5	12-5
250.00	15-2	15-2	15-3	15-3	15-3	15-3	15-4	15-4	15-4	15-5
275.00	18-4	18-5	18-5	18-6	18-6	18-6	18-7	18-7	18-7	18-8
300.00	21-11	21-11	22-0	22-0	22-0	22-1	22-1	22-2	22-2	22-2
325.00	25-9	25-9	25-10	25-10	25-11	25-11	26-0	26-0	26-1	26-1
350.00	29-10	29-11	30-0	30-0	30-1	30-1	30-2	30-2	30-3	30-4
375.00	34-4	34-5	34-5	34-6	34-7	34-7	34-8	34-9	34-9	34-10
400.00	39-2	39-2	39-3	39-4	39-5	39-5	39-6	39-7	39-8	39-8
425.00	44-3	44-4	44-5	44-5	44-6	44-7	44-8	44-9	44-10	44-11
450.00	49-8	49-9	49-10	49-11	50-0	50-1	50-2	50-3	50-4	50-5
475.00	55-5	55-7	55-8	55-9	55-10	55-11	56-0	56-1	56-2	56-3
500.00	61-7	61-8	61-9	61-10	62-0	62-1	62-2	62-3	62-4	62-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-8	9-9	9-9	9-9	9-9	9-9	9-9	9-10	9-10	9-10
225.00	12-3	12-4	12-4	12-4	12-4	12-5	12-5	12-5	12-5	12-5
250.00	15-2	15-2	15-3	15-3	15-3	15-4	15-4	15-4	15-4	15-5
275.00	18-5	18-5	18-5	18-6	18-6	18-6	18-7	18-7	18-7	18-8
300.00	21-11	21-11	22-0	22-0	22-0	22-1	22-1	22-2	22-2	22-3
325.00	25-9	25-9	25-10	25-10	25-11	25-11	26-0	26-0	26-1	26-1
350.00	29-11	29-11	30-0	30-0	30-1	30-1	30-2	30-3	30-3	30-4
375.00	34-4	34-5	34-6	34-6	34-7	34-8	34-8	34-9	34-9	34-10
400.00	39-2	39-3	39-3	39-4	39-5	39-6	39-6	39-7	39-8	39-8
425.00	44-3	44-4	44-5	44-6	44-7	44-7	44-8	44-9	44-10	44-11
450.00	49-9	49-9	49-10	49-11	50-0	50-1	50-2	50-3	50-4	50-5
475.00	55-6	55-7	55-8	55-9	55-10	55-11	56-0	56-1	56-2	56-3
500.00	61-7	61-8	61-10	61-11	62-0	62-1	62-2	62-3	62-5	62-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.126

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	15-6	15-6	15-6	15-7	15-7	15-7	15-7	15-7	15-7	15-8
275.00	18-9	18-10	18-10	18-10	18-10	18-10	18-11	18-11	18-11	18-11
300.00	22-4	22-5	22-5	22-5	22-5	22-6	22-6	22-6	22-7	22-7
325.00	26-3	26-4	26-4	26-4	26-5	26-5	26-5	26-6	26-6	26-6
350.00	30-6	30-7	30-7	30-7	30-8	30-8	30-8	30-9	30-9	30-10
375.00	35-1	35-2	35-2	35-2	35-3	35-3	35-4	35-4	35-4	35-5
400.00	40-0	40-0	40-1	40-1	40-2	40-2	40-3	40-3	40-4	40-4
425.00	45-3	45-3	45-4	45-4	45-5	45-5	45-6	45-6	45-7	45-7
450.00	50-9	50-10	50-11	50-11	51-0	51-0	51-1	51-2	51-2	51-3
475.00	56-8	56-9	56-10	56-10	56-11	57-0	57-0	57-1	57-2	57-2
500.00	62-11	63-0	63-1	63-2	63-2	63-3	63-4	63-5	63-5	63-6
525.00	69-6	69-7	69-8	69-9	69-10	69-11	69-11	70-0	70-1	70-2
550.00	76-6	76-7	76-8	76-9	76-10	76-10	76-11	77-0	77-1	77-2
575.00	83-9	83-10	83-11	84-0	84-2	84-3	84-4	84-5	84-6	84-7
600.00	91-5	91-6	91-8	91-9	91-10	91-11	92-0	92-1	92-2	92-3
625.00	99-6	99-7	99-8	99-9	99-11	100-0	100-1	100-2	100-3	100-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	15-6	15-6	15-6	15-7	15-7	15-7	15-7	15-7	15-7	15-8
275.00	18-9	18-10	18-10	18-10	18-10	18-10	18-11	18-11	18-11	18-11
300.00	22-5	22-5	22-5	22-5	22-6	22-6	22-6	22-6	22-7	22-7
325.00	26-4	26-4	26-4	26-4	26-5	26-5	26-5	26-6	26-6	26-6
350.00	30-6	30-7	30-7	30-7	30-8	30-8	30-9	30-9	30-9	30-10
375.00	35-1	35-2	35-2	35-2	35-3	35-3	35-4	35-4	35-5	35-5
400.00	40-0	40-1	40-1	40-1	40-2	40-2	40-3	40-3	40-4	40-4
425.00	45-3	45-3	45-4	45-4	45-5	45-5	45-6	45-7	45-7	45-8
450.00	50-10	50-10	50-11	50-11	51-0	51-1	51-1	51-2	51-2	51-3
475.00	56-9	56-9	56-10	56-11	56-11	57-0	57-1	57-1	57-2	57-3
500.00	63-0	63-0	63-1	63-2	63-3	63-3	63-4	63-5	63-6	63-6
525.00	69-7	69-8	69-8	69-9	69-10	69-11	70-0	70-1	70-1	70-2
550.00	76-6	76-7	76-8	76-9	76-10	76-11	77-0	77-0	77-1	77-2
575.00	83-10	83-11	84-0	84-1	84-2	84-3	84-4	84-5	84-6	84-7
600.00	91-6	91-7	91-8	91-9	91-10	91-11	92-0	92-1	92-3	92-4
625.00	99-6	99-7	99-8	99-10	99-11	100-0	100-1	100-2	100-4	100-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.127

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.907	1.59	1500	1.59	1500*
20	0	0	0	0.629	0.76	1030	0.75	1048
30	0	0	0	0.629	0.83	947	0.81	966
40	0	0	0	0.629	0.9	871	0.88	891
50	0	0	0	0.629	0.98	804	0.96	822
60	0	0	0	0.629	1.06	744	1.03	761
70	0	0	0	0.629	1.14	691	1.11	707
80	0	0	0	0.629	1.22	645	1.19	659
90	0	0	0	0.629	1.3	605	1.28	617
100	0	0	0	0.629	1.38	570	1.36	580
110	0	0	0	0.629	1.46	539	1.44	547
120	0	0	0	0.629	1.54	512	1.52	519
130	0	0	0	0.629	1.61	487	1.59	495
167	0	0	0	0.629	1.87	422	1.83	430
212	0	0	0	0.629	2.14	369	2.1	375

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.907	6.38	1500	6.38	1500*
20	0	0	0	0.629	5.38	587	5.33	591
30	0	0	0	0.629	5.48	576	5.44	580
40	0	0	0	0.629	5.58	566	5.54	570
50	0	0	0	0.629	5.67	556	5.63	560
60	0	0	0	0.629	5.77	547	5.73	550
70	0	0	0	0.629	5.87	538	5.83	541
80	0	0	0	0.629	5.96	530	5.93	533
90	0	0	0	0.629	6.05	522	6.02	524
100	0	0	0	0.629	6.14	514	6.11	516
110	0	0	0	0.629	6.23	506	6.21	509
120	0	0	0	0.629	6.32	499	6.3	501
130	0	0	0	0.629	6.41	493	6.38	495
167	0	0	0	0.629	6.71	471	6.67	473
212	0	0	0	0.629	7.05	448	7.01	451

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.128

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.907	14.44	1500	14.44	1500*
20	0	0	0	0.629	13.44	531	13.39	533
30	0	0	0	0.629	13.53	527	13.49	529
40	0	0	0	0.629	13.63	523	13.59	525
50	0	0	0	0.629	13.72	520	13.68	521
60	0	0	0	0.629	13.82	516	13.78	518
70	0	0	0	0.629	13.91	513	13.88	514
80	0	0	0	0.629	14.01	510	13.97	511
90	0	0	0	0.629	14.1	506	14.07	507
100	0	0	0	0.629	14.19	503	14.16	504
110	0	0	0	0.629	14.28	500	14.26	501
120	0	0	0	0.629	14.38	497	14.35	498
130	0	0	0	0.629	14.47	494	14.44	495
167	0	0	0	0.629	14.78	483	14.74	485
212	0	0	0	0.629	15.14	472	15.1	473

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.907	25.86	1500	25.86	1500*
20	0	0	0	0.629	24.86	514	24.82	515
30	0	0	0	0.629	24.96	512	24.91	513
40	0	0	0	0.629	25.05	510	25.01	511
50	0	0	0	0.629	25.14	508	25.1	509
60	0	0	0	0.629	25.24	506	25.2	507
70	0	0	0	0.629	25.33	505	25.29	505
80	0	0	0	0.629	25.42	503	25.39	503
90	0	0	0	0.629	25.52	501	25.48	502
100	0	0	0	0.629	25.61	499	25.58	500
110	0	0	0	0.629	25.7	498	25.67	498
120	0	0	0	0.629	25.79	496	25.77	496
130	0	0	0	0.629	25.89	494	25.86	495
167	0	0	0	0.629	26.21	488	26.16	489
212	0	0	0	0.629	26.58	482	26.53	482

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.129

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.907	40.8	1500	40.8	1500*
20	0	0	0	0.629	39.8	506	39.76	507
30	0	0	0	0.629	39.9	505	39.85	506
40	0	0	0	0.629	39.99	504	39.95	505
50	0	0	0	0.629	40.08	503	40.04	503
60	0	0	0	0.629	40.18	502	40.14	502
70	0	0	0	0.629	40.27	501	40.23	501
80	0	0	0	0.629	40.36	500	40.33	500
90	0	0	0	0.629	40.46	499	40.42	499
100	0	0	0	0.629	40.55	498	40.52	498
110	0	0	0	0.629	40.64	496	40.61	497
120	0	0	0	0.629	40.73	495	40.71	496
130	0	0	0	0.629	40.83	494	40.8	495
167	0	0	0	0.629	41.15	491	41.11	491
212	0	0	0	0.629	41.52	486	41.48	487

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.130

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-9	0-10
100.00	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5
125.00	1-2	1-3	1-5	1-6	1-7	1-9	1-10	2-0	2-1	2-3
150.00	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-1	3-3
175.00	2-4	2-6	2-8	2-11	3-2	3-5	3-8	3-11	4-2	4-5
200.00	3-0	3-3	3-6	3-10	4-2	4-5	4-9	5-1	5-5	5-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10
100.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
125.00	1-2	1-4	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-3
150.00	1-9	1-10	2-0	2-2	2-5	2-7	2-9	2-11	3-1	3-3
175.00	2-4	2-7	2-9	3-0	3-3	3-6	3-9	4-0	4-3	4-6
200.00	3-1	3-4	3-7	3-11	4-3	4-7	4-11	5-2	5-6	5-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.131

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-5	1-5	1-6	1-6	1-6	1-7
125.00	2-1	2-1	2-2	2-2	2-3	2-3	2-4	2-4	2-5	2-5
150.00	3-0	3-1	3-1	3-2	3-3	3-3	3-4	3-5	3-5	3-6
175.00	4-1	4-2	4-3	4-4	4-5	4-6	4-6	4-7	4-8	4-9
200.00	5-4	5-5	5-6	5-8	5-9	5-10	5-11	6-0	6-1	6-2
225.00	6-9	6-11	7-0	7-2	7-3	7-5	7-6	7-7	7-9	7-10
250.00	8-4	8-6	8-8	8-10	9-0	9-1	9-3	9-5	9-7	9-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-5	1-6	1-6	1-6	1-6	1-7
125.00	2-1	2-2	2-2	2-3	2-3	2-3	2-4	2-4	2-5	2-5
150.00	3-0	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-5	3-6
175.00	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-8	4-9
200.00	5-5	5-6	5-7	5-8	5-9	5-10	6-0	6-1	6-2	6-3
225.00	6-10	6-11	7-1	7-2	7-4	7-5	7-7	7-8	7-9	7-11
250.00	8-5	8-7	8-9	8-10	9-0	9-2	9-4	9-6	9-7	9-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.132

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-6	3-6	3-7
175.00	4-7	4-7	4-7	4-8	4-8	4-9	4-9	4-9	4-10	4-10
200.00	5-11	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4
225.00	7-6	7-7	7-8	7-8	7-9	7-10	7-10	7-11	7-11	8-0
250.00	9-4	9-4	9-5	9-6	9-7	9-8	9-8	9-9	9-10	9-11
275.00	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0
300.00	13-5	13-6	13-7	13-8	13-9	13-11	14-0	14-1	14-2	14-3
325.00	15-9	15-10	15-11	16-1	16-2	16-4	16-5	16-6	16-8	16-9
350.00	18-3	18-5	18-6	18-8	18-9	18-11	19-0	19-2	19-4	19-5
375.00	20-11	21-1	21-3	21-5	21-7	21-9	21-10	22-0	22-2	22-4

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-5	3-5	3-5	3-5	3-6	3-6	3-6	3-6	3-7
175.00	4-7	4-7	4-8	4-8	4-8	4-9	4-9	4-9	4-10	4-10
200.00	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4
225.00	7-7	7-7	7-8	7-9	7-9	7-10	7-10	7-11	8-0	8-0
250.00	9-4	9-5	9-5	9-6	9-7	9-8	9-9	9-9	9-10	9-11
275.00	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0
300.00	13-5	13-6	13-8	13-9	13-10	13-11	14-0	14-1	14-2	14-3
325.00	15-9	15-11	16-0	16-1	16-3	16-4	16-5	16-7	16-8	16-9
350.00	18-4	18-5	18-7	18-8	18-10	18-11	19-1	19-3	19-4	19-6
375.00	21-0	21-2	21-4	21-6	21-8	21-9	21-11	22-1	22-3	22-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.133

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-2	6-2	6-3	6-3	6-3	6-4	6-4	6-4	6-4	6-5
225.00	7-10	7-10	7-11	7-11	7-11	8-0	8-0	8-0	8-1	8-1
250.00	9-8	9-8	9-9	9-9	9-10	9-10	9-11	9-11	10-0	10-0
275.00	11-8	11-9	11-9	11-10	11-11	11-11	12-0	12-0	12-1	12-1
300.00	13-11	14-0	14-0	14-1	14-2	14-2	14-3	14-4	14-4	14-5
325.00	16-4	16-5	16-6	16-7	16-7	16-8	16-9	16-10	16-10	16-11
350.00	19-0	19-1	19-1	19-2	19-3	19-4	19-5	19-6	19-7	19-8
375.00	21-10	21-11	22-0	22-1	22-2	22-3	22-4	22-5	22-6	22-7
400.00	24-10	24-11	25-0	25-1	25-2	25-4	25-5	25-6	25-7	25-8
425.00	28-0	28-2	28-3	28-4	28-6	28-7	28-8	28-9	28-11	29-0
450.00	31-5	31-7	31-8	31-10	31-11	32-1	32-2	32-4	32-5	32-6
475.00	35-1	35-2	35-4	35-6	35-7	35-9	35-11	36-0	36-2	36-3
500.00	38-11	39-0	39-2	39-4	39-6	39-8	39-9	39-11	40-1	40-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-2	6-3	6-3	6-3	6-3	6-4	6-4	6-4	6-5	6-5
225.00	7-10	7-10	7-11	7-11	7-11	8-0	8-0	8-1	8-1	8-1
250.00	9-8	9-9	9-9	9-9	9-10	9-10	9-11	9-11	10-0	10-0
275.00	11-9	11-9	11-10	11-10	11-11	11-11	12-0	12-0	12-1	12-1
300.00	13-11	14-0	14-1	14-1	14-2	14-3	14-3	14-4	14-4	14-5
325.00	16-5	16-5	16-6	16-7	16-8	16-8	16-9	16-10	16-11	16-11
350.00	19-0	19-1	19-2	19-3	19-4	19-4	19-5	19-6	19-7	19-8
375.00	21-10	21-11	22-0	22-1	22-2	22-3	22-4	22-5	22-6	22-7
400.00	24-10	24-11	25-1	25-2	25-3	25-4	25-5	25-6	25-7	25-8
425.00	28-1	28-2	28-4	28-5	28-6	28-7	28-9	28-10	28-11	29-0
450.00	31-6	31-8	31-9	31-10	32-0	32-1	32-3	32-4	32-6	32-7
475.00	35-2	35-3	35-5	35-6	35-8	35-10	35-11	36-1	36-2	36-4
500.00	38-11	39-1	39-3	39-5	39-7	39-8	39-10	40-0	40-2	40-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.134

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-11	9-11	9-11	9-11	10-0	10-0	10-0	10-0	10-1	10-1
275.00	11-11	12-0	12-0	12-1	12-1	12-1	12-2	12-2	12-2	12-3
300.00	14-3	14-3	14-4	14-4	14-4	14-5	14-5	14-6	14-6	14-6
325.00	16-9	16-9	16-10	16-10	16-11	16-11	16-11	17-0	17-0	17-1
350.00	19-5	19-5	19-6	19-6	19-7	19-8	19-8	19-9	19-9	19-10
375.00	22-3	22-4	22-5	22-5	22-6	22-7	22-7	22-8	22-8	22-9
400.00	25-4	25-5	25-6	25-7	25-7	25-8	25-9	25-10	25-10	25-11
425.00	28-8	28-9	28-10	28-10	28-11	29-0	29-1	29-2	29-2	29-3
450.00	32-2	32-3	32-4	32-5	32-6	32-6	32-7	32-8	32-9	32-10
475.00	35-10	35-11	36-0	36-1	36-2	36-3	36-4	36-5	36-6	36-7
500.00	39-9	39-10	39-11	40-1	40-2	40-3	40-4	40-5	40-6	40-7
525.00	43-10	44-0	44-1	44-2	44-4	44-5	44-6	44-7	44-9	44-10
550.00	48-2	48-4	48-5	48-6	48-8	48-9	48-11	49-0	49-1	49-3
575.00	52-9	52-10	53-0	53-1	53-3	53-4	53-6	53-7	53-9	53-10
600.00	57-6	57-7	57-9	57-11	58-0	58-2	58-4	58-5	58-7	58-8
625.00	62-5	62-7	62-9	62-10	63-0	63-2	63-4	63-6	63-7	63-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-11	9-11	9-11	9-11	10-0	10-0	10-0	10-1	10-1	10-1
275.00	12-0	12-0	12-0	12-1	12-1	12-1	12-2	12-2	12-2	12-3
300.00	14-3	14-3	14-4	14-4	14-5	14-5	14-5	14-6	14-6	14-7
325.00	16-9	16-9	16-10	16-10	16-11	16-11	17-0	17-0	17-1	17-1
350.00	19-5	19-6	19-6	19-7	19-7	19-8	19-8	19-9	19-9	19-10
375.00	22-4	22-4	22-5	22-6	22-6	22-7	22-7	22-8	22-9	22-9
400.00	25-5	25-5	25-6	25-7	25-8	25-8	25-9	25-10	25-10	25-11
425.00	28-8	28-9	28-10	28-11	29-0	29-0	29-1	29-2	29-3	29-4
450.00	32-2	32-3	32-4	32-5	32-6	32-7	32-8	32-9	32-9	32-10
475.00	35-11	36-0	36-1	36-2	36-3	36-4	36-5	36-6	36-7	36-8
500.00	39-10	39-11	40-0	40-1	40-2	40-3	40-4	40-5	40-7	40-8
525.00	43-11	44-0	44-2	44-3	44-4	44-5	44-6	44-8	44-9	44-10
550.00	48-3	48-4	48-6	48-7	48-8	48-10	48-11	49-0	49-2	49-3
575.00	52-9	52-11	53-0	53-2	53-3	53-5	53-6	53-8	53-9	53-11
600.00	57-6	57-8	57-10	57-11	58-1	58-2	58-4	58-6	58-7	58-9
625.00	62-6	62-8	62-9	62-11	63-1	63-3	63-4	63-6	63-8	63-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.135

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.907	1.19	2000	1.19	2000*
20	0	0	0	0.629	0.43	1843	0.43	1849
30	0	0	0	0.629	0.46	1724	0.45	1738
40	0	0	0	0.629	0.49	1607	0.48	1628
50	0	0	0	0.629	0.53	1493	0.52	1519
60	0	0	0	0.629	0.57	1383	0.56	1413
70	0	0	0	0.629	0.62	1277	0.6	1309
80	0	0	0	0.629	0.67	1176	0.65	1210
90	0	0	0	0.629	0.73	1081	0.71	1115
100	0	0	0	0.629	0.79	994	0.77	1027
110	0	0	0	0.629	0.86	914	0.83	945
120	0	0	0	0.629	0.93	842	0.9	870
130	0	0	0	0.629	1.01	777	0.98	802
167	0	0	0	0.629	1.3	604	1.26	625
212	0	0	0	0.629	1.62	487	1.57	502

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.907	4.78	2000	4.78	2000*
20	0	0	0	0.629	3.18	989	3.12	1008
30	0	0	0	0.629	3.31	950	3.25	968
40	0	0	0	0.629	3.44	915	3.38	932
50	0	0	0	0.629	3.57	883	3.51	898
60	0	0	0	0.629	3.69	853	3.63	867
70	0	0	0	0.629	3.82	825	3.76	838
80	0	0	0	0.629	3.94	799	3.88	812
90	0	0	0	0.629	4.06	776	4	787
100	0	0	0	0.629	4.18	754	4.12	764
110	0	0	0	0.629	4.3	733	4.24	742
120	0	0	0	0.629	4.41	714	4.36	722
130	0	0	0	0.629	4.53	696	4.48	703
167	0	0	0	0.629	4.93	639	4.87	647
212	0	0	0	0.629	5.35	589	5.29	596

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.136

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.907	10.78	2000	10.78	2000*
20	0	0	0	0.629	9.13	778	9.05	785
30	0	0	0	0.629	9.26	767	9.19	773
40	0	0	0	0.629	9.39	756	9.32	762
50	0	0	0	0.629	9.52	746	9.45	752
60	0	0	0	0.629	9.65	736	9.58	742
70	0	0	0	0.629	9.78	727	9.71	732
80	0	0	0	0.629	9.91	717	9.84	722
90	0	0	0	0.629	10.03	709	9.97	713
100	0	0	0	0.629	10.15	700	10.09	704
110	0	0	0	0.629	10.28	692	10.22	696
120	0	0	0	0.629	10.4	684	10.34	687
130	0	0	0	0.629	10.52	676	10.47	679
167	0	0	0	0.629	10.95	650	10.88	654
212	0	0	0	0.629	11.41	624	11.35	627

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.907	19.25	2000	19.25	2000*
20	0	0	0	0.629	17.6	720	17.52	724
30	0	0	0	0.629	17.73	715	17.65	718
40	0	0	0	0.629	17.86	710	17.78	713
50	0	0	0	0.629	17.98	705	17.91	708
60	0	0	0	0.629	18.11	700	18.04	703
70	0	0	0	0.629	18.24	696	18.17	698
80	0	0	0	0.629	18.36	691	18.3	693
90	0	0	0	0.629	18.49	686	18.42	689
100	0	0	0	0.629	18.61	682	18.55	684
110	0	0	0	0.629	18.73	677	18.68	680
120	0	0	0	0.629	18.86	673	18.8	675
130	0	0	0	0.629	18.98	669	18.93	671
167	0	0	0	0.629	19.42	654	19.35	656
212	0	0	0	0.629	19.9	638	19.84	640

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.137

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.907	30.24	2000	30.24	2000*
20	0	0	0	0.629	28.59	697	28.51	698
30	0	0	0	0.629	28.72	694	28.64	695
40	0	0	0	0.629	28.84	691	28.77	692
50	0	0	0	0.629	28.97	688	28.9	689
60	0	0	0	0.629	29.1	685	29.03	686
70	0	0	0	0.629	29.22	682	29.15	683
80	0	0	0	0.629	29.35	679	29.28	681
90	0	0	0	0.629	29.47	676	29.41	678
100	0	0	0	0.629	29.6	673	29.53	675
110	0	0	0	0.629	29.72	671	29.66	672
120	0	0	0	0.629	29.84	668	29.79	669
130	0	0	0	0.629	29.96	665	29.91	667
167	0	0	0	0.629	30.41	656	30.34	657
212	0	0	0	0.629	30.9	646	30.84	647

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.138

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6
100.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10
125.00	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-4
150.00	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-10
175.00	1-4	1-5	1-6	1-7	1-8	1-10	2-0	2-2	2-4	2-7
200.00	1-8	1-10	1-11	2-1	2-3	2-5	2-7	2-10	3-1	3-4

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6
100.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10
125.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
150.00	1-0	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-9	1-11
175.00	1-4	1-5	1-6	1-7	1-9	1-11	2-1	2-3	2-5	2-8
200.00	1-8	1-10	1-11	2-1	2-3	2-6	2-8	2-11	3-2	3-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.139

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-10	0-10	0-11	0-11	0-11	1-0	1-0	1-0	1-1
125.00	1-3	1-3	1-4	1-4	1-5	1-6	1-6	1-7	1-7	1-8
150.00	1-9	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-4	2-5
175.00	2-5	2-6	2-7	2-8	2-9	2-11	3-0	3-1	3-2	3-3
200.00	3-1	3-3	3-5	3-6	3-8	3-9	3-11	4-0	4-1	4-3
225.00	3-11	4-1	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-4
250.00	4-11	5-1	5-3	5-6	5-8	5-10	6-1	6-3	6-5	6-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-10	0-10	0-11	0-11	0-11	1-0	1-0	1-1	1-1
125.00	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-8	1-8
150.00	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-3	2-4	2-5
175.00	2-5	2-6	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3
200.00	3-2	3-4	3-5	3-7	3-8	3-10	3-11	4-1	4-2	4-4
225.00	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-2	5-4	5-5
250.00	5-0	5-2	5-5	5-7	5-9	6-0	6-2	6-4	6-6	6-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.140

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-4	2-4	2-4	2-5	2-5	2-5	2-6	2-6	2-7
175.00	3-1	3-1	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6
200.00	4-0	4-1	4-2	4-2	4-3	4-4	4-4	4-5	4-6	4-6
225.00	5-1	5-2	5-3	5-4	5-5	5-6	5-6	5-7	5-8	5-9
250.00	6-3	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1
275.00	7-7	7-9	7-10	7-11	8-1	8-2	8-3	8-4	8-6	8-7
300.00	9-1	9-2	9-4	9-5	9-7	9-9	9-10	10-0	10-1	10-3
325.00	10-8	10-9	10-11	11-1	11-3	11-5	11-7	11-8	11-10	12-0
350.00	12-4	12-6	12-8	12-10	13-1	13-3	13-5	13-7	13-9	13-11
375.00	14-2	14-4	14-7	14-9	15-0	15-2	15-5	15-7	15-9	16-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-4	2-4	2-5	2-5	2-5	2-6	2-6	2-6	2-7
175.00	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6
200.00	4-1	4-1	4-2	4-3	4-3	4-4	4-5	4-5	4-6	4-7
225.00	5-2	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-8	5-9
250.00	6-4	6-5	6-6	6-7	6-8	6-9	6-11	7-0	7-1	7-2
275.00	7-8	7-9	7-11	8-0	8-1	8-3	8-4	8-5	8-6	8-8
300.00	9-2	9-3	9-5	9-6	9-8	9-9	9-11	10-0	10-2	10-3
325.00	10-9	10-10	11-0	11-2	11-4	11-6	11-8	11-9	11-11	12-1
350.00	12-5	12-7	12-9	13-0	13-2	13-4	13-6	13-8	13-10	14-0
375.00	14-3	14-6	14-8	14-11	15-1	15-4	15-6	15-8	15-11	16-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.141

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-4	4-5	4-5	4-6	4-6	4-6	4-7	4-7	4-8	4-8
225.00	5-6	5-7	5-7	5-8	5-8	5-9	5-9	5-10	5-10	5-11
250.00	6-10	6-11	6-11	7-0	7-0	7-1	7-2	7-2	7-3	7-3
275.00	8-3	8-4	8-5	8-5	8-6	8-7	8-8	8-8	8-9	8-10
300.00	9-10	9-11	10-0	10-1	10-2	10-2	10-3	10-4	10-5	10-6
325.00	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-4
350.00	13-5	13-6	13-7	13-8	13-10	13-11	14-0	14-1	14-2	14-3
375.00	15-5	15-6	15-7	15-9	15-10	16-0	16-1	16-2	16-4	16-5
400.00	17-6	17-8	17-9	17-11	18-0	18-2	18-4	18-5	18-7	18-8
425.00	19-9	19-11	20-1	20-3	20-4	20-6	20-8	20-10	20-11	21-1
450.00	22-2	22-4	22-6	22-8	22-10	23-0	23-2	23-4	23-6	23-8
475.00	24-9	24-11	25-1	25-3	25-6	25-8	25-10	26-0	26-2	26-4
500.00	27-5	27-7	27-10	28-0	28-3	28-5	28-8	28-10	29-0	29-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-5	4-5	4-5	4-6	4-6	4-7	4-7	4-7	4-8	4-8
225.00	5-7	5-7	5-8	5-8	5-9	5-9	5-10	5-10	5-11	5-11
250.00	6-10	6-11	7-0	7-0	7-1	7-1	7-2	7-3	7-3	7-4
275.00	8-4	8-4	8-5	8-6	8-7	8-7	8-8	8-9	8-9	8-10
300.00	9-11	10-0	10-0	10-1	10-2	10-3	10-4	10-5	10-5	10-6
325.00	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-4
350.00	13-6	13-7	13-8	13-9	13-10	13-11	14-1	14-2	14-3	14-4
375.00	15-6	15-7	15-8	15-10	15-11	16-0	16-2	16-3	16-4	16-6
400.00	17-7	17-9	17-10	18-0	18-1	18-3	18-4	18-6	18-7	18-9
425.00	19-10	20-0	20-2	20-4	20-5	20-7	20-9	20-11	21-0	21-2
450.00	22-3	22-5	22-7	22-9	22-11	23-1	23-3	23-5	23-7	23-9
475.00	24-10	25-0	25-2	25-5	25-7	25-9	25-11	26-1	26-3	26-5
500.00	27-6	27-9	27-11	28-2	28-4	28-6	28-9	28-11	29-2	29-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.142

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-1	7-2	7-2	7-2	7-3	7-3	7-4	7-4	7-4	7-5
275.00	8-7	8-8	8-8	8-9	8-9	8-9	8-10	8-10	8-11	8-11
300.00	10-3	10-3	10-4	10-4	10-5	10-6	10-6	10-7	10-7	10-8
325.00	12-0	12-1	12-1	12-2	12-3	12-3	12-4	12-5	12-5	12-6
350.00	13-11	14-0	14-1	14-2	14-2	14-3	14-4	14-5	14-5	14-6
375.00	16-0	16-1	16-2	16-3	16-4	16-4	16-5	16-6	16-7	16-8
400.00	18-3	18-4	18-5	18-6	18-7	18-8	18-9	18-9	18-10	18-11
425.00	20-7	20-8	20-9	20-10	20-11	21-0	21-2	21-3	21-4	21-5
450.00	23-1	23-2	23-3	23-5	23-6	23-7	23-8	23-10	23-11	24-0
475.00	25-9	25-10	25-11	26-1	26-2	26-4	26-5	26-6	26-8	26-9
500.00	28-6	28-8	28-9	28-11	29-0	29-2	29-3	29-5	29-6	29-8
525.00	31-5	31-7	31-9	31-10	32-0	32-2	32-4	32-5	32-7	32-9
550.00	34-6	34-8	34-10	35-0	35-2	35-4	35-6	35-7	35-9	35-11
575.00	37-9	37-11	38-1	38-3	38-5	38-7	38-9	38-11	39-1	39-3
600.00	41-2	41-4	41-6	41-8	41-11	42-1	42-3	42-5	42-7	42-10
625.00	44-8	44-10	45-1	45-3	45-6	45-8	45-10	46-1	46-3	46-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-1	7-2	7-2	7-3	7-3	7-3	7-4	7-4	7-4	7-5
275.00	8-7	8-8	8-8	8-9	8-9	8-10	8-10	8-11	8-11	9-0
300.00	10-3	10-4	10-4	10-5	10-5	10-6	10-6	10-7	10-7	10-8
325.00	12-1	12-1	12-2	12-3	12-3	12-4	12-4	12-5	12-6	12-6
350.00	14-0	14-0	14-1	14-2	14-3	14-3	14-4	14-5	14-6	14-6
375.00	16-1	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-7	16-8
400.00	18-3	18-4	18-5	18-6	18-7	18-8	18-9	18-10	18-11	19-0
425.00	20-8	20-9	20-10	20-11	21-0	21-1	21-2	21-3	21-4	21-5
450.00	23-2	23-3	23-4	23-5	23-7	23-8	23-9	23-10	23-11	24-1
475.00	25-10	25-11	26-0	26-2	26-3	26-4	26-6	26-7	26-8	26-10
500.00	28-7	28-9	28-10	29-0	29-1	29-3	29-4	29-6	29-7	29-9
525.00	31-6	31-8	31-10	31-11	32-1	32-3	32-4	32-6	32-8	32-9
550.00	34-8	34-9	34-11	35-1	35-3	35-5	35-7	35-8	35-10	36-0
575.00	37-10	38-0	38-2	38-4	38-6	38-8	38-10	39-0	39-2	39-4
600.00	41-3	41-5	41-7	41-10	42-0	42-2	42-4	42-6	42-8	42-11
625.00	44-9	45-0	45-2	45-5	45-7	45-9	46-0	46-2	46-4	46-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.143

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.907	2.39	1000	2.39	1000*
0	0	0	0	0.629	1.94	405	1.92	410
30	0	0	0	0.629	2.14	368	2.12	372
40	0	0	0	0.629	2.2	358	2.18	361
50	0	0	0	0.629	2.26	348	2.25	351
60	0	0	0	0.629	2.32	339	2.31	341
70	0	0	0	0.629	2.38	331	2.37	333
80	0	0	0	0.629	2.44	323	2.43	325
90	0	0	0	0.629	2.5	316	2.49	317
100	0	0	0	0.629	2.55	309	2.54	310
110	0	0	0	0.629	2.61	302	2.59	304
120	0	0	0	0.629	2.66	296	2.64	299
130	0	0	0	0.629	2.71	291	2.69	293
167	0	0	0	0.629	2.88	274	2.86	276
212	0	0	0	0.629	3.08	256	3.06	258

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.907	9.63	1000	9.63	1000*
0	0	0	0	0.629	9.18	345	9.16	346
30	0	0	0	0.629	9.37	339	9.35	339
40	0	0	0	0.629	9.43	336	9.41	337
50	0	0	0	0.629	9.49	334	9.48	335
60	0	0	0	0.629	9.56	332	9.54	333
70	0	0	0	0.629	9.62	330	9.6	331
80	0	0	0	0.629	9.68	328	9.67	328
90	0	0	0	0.629	9.74	326	9.73	326
100	0	0	0	0.629	9.8	324	9.79	324
110	0	0	0	0.629	9.86	322	9.84	323
120	0	0	0	0.629	9.92	320	9.9	321
130	0	0	0	0.629	9.97	318	9.95	319
167	0	0	0	0.629	10.17	312	10.15	313
212	0	0	0	0.629	10.41	305	10.38	306

* Design Condition

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SHEET 144 OF 215

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.144

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Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.907	21.92	1000	21.92	1000*
0	0	0	0	0.629	21.47	336	21.45	337
30	0	0	0	0.629	21.66	333	21.64	334
40	0	0	0	0.629	21.72	333	21.71	333
50	0	0	0	0.629	21.79	332	21.77	332
60	0	0	0	0.629	21.85	331	21.83	331
70	0	0	0	0.629	21.91	330	21.89	330
80	0	0	0	0.629	21.97	329	21.96	329
90	0	0	0	0.629	22.03	328	22.02	328
100	0	0	0	0.629	22.09	327	22.08	327
110	0	0	0	0.629	22.15	326	22.14	327
120	0	0	0	0.629	22.21	326	22.2	326
130	0	0	0	0.629	22.27	325	22.25	325
167	0	0	0	0.629	22.48	322	22.45	322
212	0	0	0	0.629	22.72	319	22.7	319

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.907	39.65	1000	39.65	1000*
0	0	0	0	0.629	39.21	333	39.19	333
30	0	0	0	0.629	39.4	332	39.38	332
40	0	0	0	0.629	39.46	331	39.44	331
50	0	0	0	0.629	39.52	331	39.5	331
60	0	0	0	0.629	39.58	330	39.57	330
70	0	0	0	0.629	39.64	330	39.63	330
80	0	0	0	0.629	39.71	329	39.69	329
90	0	0	0	0.629	39.77	329	39.76	329
100	0	0	0	0.629	39.83	328	39.82	329
110	0	0	0	0.629	39.89	328	39.88	328
120	0	0	0	0.629	39.95	327	39.93	328
130	0	0	0	0.629	40.01	327	39.99	327
167	0	0	0	0.629	40.21	326	40.19	326
212	0	0	0	0.629	40.46	324	40.44	324

* Design Condition

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SHEET 145 OF 215

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.145

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.907	63.47	1000	63.47	1000*
0	0	0	0	0.629	63.03	332	63	332
30	0	0	0	0.629	63.21	331	63.19	331
40	0	0	0	0.629	63.27	331	63.26	331
50	0	0	0	0.629	63.34	330	63.32	330
60	0	0	0	0.629	63.4	330	63.38	330
70	0	0	0	0.629	63.46	330	63.44	330
80	0	0	0	0.629	63.52	330	63.51	330
90	0	0	0	0.629	63.58	329	63.57	329
100	0	0	0	0.629	63.64	329	63.63	329
110	0	0	0	0.629	63.7	329	63.69	329
120	0	0	0	0.629	63.77	328	63.75	329
130	0	0	0	0.629	63.82	328	63.8	328
167	0	0	0	0.629	64.03	327	64.01	327
212	0	0	0	0.629	64.28	326	64.26	326

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-2	1-3	1-3	1-4	1-4	1-4	1-5	1-5	1-5
100.00	2-1	2-1	2-2	2-3	2-4	2-4	2-5	2-6	2-7	2-7
125.00	3-3	3-4	3-5	3-6	3-7	3-8	3-10	3-11	4-0	4-1
150.00	4-8	4-9	4-11	5-1	5-2	5-4	5-6	5-7	5-9	5-10
175.00	6-4	6-6	6-8	6-11	7-1	7-3	7-5	7-8	7-10	7-11
200.00	8-3	8-6	8-9	9-0	9-3	9-6	9-9	10-0	10-2	10-5

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-2	1-3	1-3	1-4	1-4	1-4	1-5	1-5	1-6
100.00	2-1	2-2	2-2	2-3	2-4	2-5	2-5	2-6	2-7	2-7
125.00	3-3	3-4	3-5	3-6	3-8	3-9	3-10	3-11	4-0	4-1
150.00	4-8	4-10	5-0	5-1	5-3	5-4	5-6	5-7	5-9	5-10
175.00	6-4	6-7	6-9	6-11	7-2	7-4	7-6	7-8	7-10	8-0
200.00	8-4	8-7	8-10	9-1	9-4	9-7	9-9	10-0	10-3	10-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.147

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-4	2-4	2-4	2-4	2-5	2-5	2-5	2-5	2-5	2-5
125.00	3-7	3-8	3-8	3-8	3-9	3-9	3-9	3-10	3-10	3-10
150.00	5-3	5-3	5-3	5-4	5-4	5-5	5-5	5-6	5-6	5-6
175.00	7-1	7-2	7-2	7-3	7-4	7-4	7-5	7-5	7-6	7-6
200.00	9-3	9-4	9-5	9-6	9-6	9-7	9-8	9-9	9-9	9-10
225.00	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-4	12-5	12-6
250.00	14-6	14-8	14-9	14-10	14-11	15-0	15-2	15-3	15-4	15-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-4	2-4	2-4	2-4	2-5	2-5	2-5	2-5	2-5	2-6
125.00	3-8	3-8	3-8	3-8	3-9	3-9	3-9	3-10	3-10	3-10
150.00	5-3	5-3	5-4	5-4	5-4	5-5	5-5	5-6	5-6	5-6
175.00	7-1	7-2	7-3	7-3	7-4	7-4	7-5	7-5	7-6	7-7
200.00	9-4	9-4	9-5	9-6	9-7	9-7	9-8	9-9	9-10	9-10
225.00	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-4	12-5	12-6
250.00	14-7	14-8	14-9	14-10	14-11	15-1	15-2	15-3	15-4	15-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.148

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-4	5-5	5-5	5-5	5-5	5-5	5-6	5-6	5-6	5-6
175.00	7-4	7-4	7-4	7-4	7-5	7-5	7-5	7-5	7-6	7-6
200.00	9-7	9-7	9-7	9-8	9-8	9-8	9-9	9-9	9-9	9-10
225.00	12-1	12-2	12-2	12-2	12-3	12-3	12-4	12-4	12-5	12-5
250.00	14-11	15-0	15-0	15-1	15-2	15-2	15-3	15-3	15-4	15-4
275.00	18-1	18-2	18-3	18-3	18-4	18-5	18-5	18-6	18-6	18-7
300.00	21-7	21-8	21-8	21-9	21-10	21-11	21-11	22-0	22-1	22-2
325.00	25-4	25-5	25-6	25-7	25-8	25-9	25-10	25-10	25-11	26-0
350.00	29-5	29-6	29-7	29-8	29-9	29-11	30-0	30-1	30-2	30-3
375.00	33-10	33-11	34-1	34-2	34-3	34-4	34-5	34-7	34-8	34-9

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-4	5-5	5-5	5-5	5-5	5-5	5-6	5-6	5-6	5-6
175.00	7-4	7-4	7-4	7-5	7-5	7-5	7-5	7-6	7-6	7-6
200.00	9-7	9-7	9-7	9-8	9-8	9-8	9-9	9-9	9-9	9-10
225.00	12-1	12-2	12-2	12-3	12-3	12-3	12-4	12-4	12-5	12-5
250.00	15-0	15-0	15-1	15-1	15-2	15-2	15-3	15-3	15-4	15-4
275.00	18-2	18-2	18-3	18-3	18-4	18-5	18-5	18-6	18-7	18-7
300.00	21-7	21-8	21-9	21-9	21-10	21-11	22-0	22-0	22-1	22-2
325.00	25-5	25-5	25-6	25-7	25-8	25-9	25-10	25-11	26-0	26-0
350.00	29-6	29-7	29-8	29-9	29-10	29-11	30-0	30-1	30-2	30-3
375.00	33-11	34-0	34-1	34-2	34-3	34-4	34-6	34-7	34-8	34-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.149

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-9	9-9	9-9	9-9	9-10	9-10	9-10	9-10	9-10	9-10
225.00	12-4	12-4	12-4	12-5	12-5	12-5	12-5	12-6	12-6	12-6
250.00	15-3	15-3	15-3	15-4	15-4	15-4	15-5	15-5	15-5	15-5
275.00	18-6	18-6	18-6	18-7	18-7	18-7	18-8	18-8	18-8	18-9
300.00	22-0	22-0	22-1	22-1	22-2	22-2	22-2	22-3	22-3	22-4
325.00	25-10	25-11	25-11	26-0	26-0	26-1	26-1	26-2	26-2	26-3
350.00	30-0	30-1	30-1	30-2	30-2	30-3	30-4	30-4	30-5	30-5
375.00	34-6	34-7	34-7	34-8	34-9	34-9	34-10	34-11	34-11	35-0
400.00	39-4	39-5	39-5	39-6	39-7	39-8	39-8	39-9	39-10	39-11
425.00	44-5	44-6	44-7	44-8	44-9	44-10	44-11	44-11	45-0	45-1
450.00	49-11	50-0	50-1	50-2	50-3	50-4	50-5	50-6	50-7	50-8
475.00	55-9	55-10	55-11	56-0	56-1	56-2	56-3	56-4	56-5	56-6
500.00	61-10	62-0	62-1	62-2	62-3	62-4	62-6	62-7	62-8	62-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-9	9-9	9-9	9-9	9-10	9-10	9-10	9-10	9-10	9-11
225.00	12-4	12-4	12-5	12-5	12-5	12-5	12-5	12-6	12-6	12-6
250.00	15-3	15-3	15-4	15-4	15-4	15-4	15-5	15-5	15-5	15-6
275.00	18-6	18-6	18-6	18-7	18-7	18-7	18-8	18-8	18-8	18-9
300.00	22-0	22-0	22-1	22-1	22-2	22-2	22-3	22-3	22-3	22-4
325.00	25-10	25-11	25-11	26-0	26-0	26-1	26-1	26-2	26-2	26-3
350.00	30-0	30-1	30-1	30-2	30-3	30-3	30-4	30-4	30-5	30-5
375.00	34-6	34-7	34-8	34-8	34-9	34-9	34-10	34-11	34-11	35-0
400.00	39-4	39-5	39-6	39-6	39-7	39-8	39-8	39-9	39-10	39-11
425.00	44-6	44-7	44-7	44-8	44-9	44-10	44-11	45-0	45-0	45-1
450.00	49-11	50-0	50-1	50-2	50-3	50-4	50-5	50-6	50-7	50-8
475.00	55-9	55-10	55-11	56-0	56-1	56-2	56-3	56-4	56-6	56-7
500.00	61-11	62-0	62-1	62-2	62-3	62-5	62-6	62-7	62-8	62-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.150

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	15-7	15-7	15-7	15-7	15-7	15-7	15-8	15-8	15-8	15-8
275.00	18-10	18-10	18-10	18-11	18-11	18-11	18-11	18-11	19-0	19-0
300.00	22-5	22-5	22-6	22-6	22-6	22-6	22-7	22-7	22-7	22-8
325.00	26-4	26-5	26-5	26-5	26-6	26-6	26-6	26-6	26-7	26-7
350.00	30-7	30-8	30-8	30-8	30-9	30-9	30-10	30-10	30-10	30-11
375.00	35-2	35-3	35-3	35-4	35-4	35-4	35-5	35-5	35-6	35-6
400.00	40-1	40-2	40-2	40-3	40-3	40-4	40-4	40-5	40-5	40-6
425.00	45-4	45-5	45-5	45-6	45-6	45-7	45-7	45-8	45-9	45-9
450.00	50-11	51-0	51-0	51-1	51-2	51-2	51-3	51-3	51-4	51-5
475.00	56-10	56-11	57-0	57-0	57-1	57-2	57-2	57-3	57-4	57-4
500.00	63-2	63-2	63-3	63-4	63-5	63-5	63-6	63-7	63-8	63-8
525.00	69-9	69-10	69-11	69-11	70-0	70-1	70-2	70-3	70-4	70-4
550.00	76-9	76-9	76-10	76-11	77-0	77-1	77-2	77-3	77-4	77-5
575.00	84-0	84-1	84-2	84-4	84-5	84-6	84-7	84-8	84-9	84-10
600.00	91-9	91-10	91-11	92-0	92-1	92-2	92-3	92-4	92-6	92-7
625.00	99-9	99-10	100-0	100-1	100-2	100-3	100-5	100-6	100-7	100-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	15-7	15-7	15-7	15-7	15-7	15-7	15-8	15-8	15-8	15-8
275.00	18-10	18-10	18-10	18-11	18-11	18-11	18-11	19-0	19-0	19-0
300.00	22-5	22-6	22-6	22-6	22-6	22-7	22-7	22-7	22-7	22-8
325.00	26-4	26-5	26-5	26-5	26-6	26-6	26-6	26-7	26-7	26-7
350.00	30-7	30-8	30-8	30-9	30-9	30-9	30-10	30-10	30-10	30-11
375.00	35-2	35-3	35-3	35-4	35-4	35-5	35-5	35-5	35-6	35-6
400.00	40-1	40-2	40-2	40-3	40-3	40-4	40-4	40-5	40-5	40-6
425.00	45-4	45-5	45-5	45-6	45-7	45-7	45-8	45-8	45-9	45-9
450.00	50-11	51-0	51-1	51-1	51-2	51-2	51-3	51-4	51-4	51-5
475.00	56-11	56-11	57-0	57-1	57-1	57-2	57-3	57-3	57-4	57-5
500.00	63-2	63-3	63-3	63-4	63-5	63-6	63-6	63-7	63-8	63-8
525.00	69-9	69-10	69-11	70-0	70-1	70-1	70-2	70-3	70-4	70-5
550.00	76-9	76-10	76-11	77-0	77-0	77-1	77-2	77-3	77-4	77-5
575.00	84-1	84-2	84-3	84-4	84-5	84-6	84-7	84-8	84-9	84-10
600.00	91-9	91-10	91-11	92-0	92-1	92-3	92-4	92-5	92-6	92-7
625.00	99-10	99-11	100-0	100-1	100-2	100-4	100-5	100-6	100-7	100-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.151

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.907	1.59	1500	1.59	1500*
0	0	0	0	0.629	0.83	947	0.81	968
30	0	0	0	0.629	1.06	744	1.03	764
40	0	0	0	0.629	1.14	691	1.11	709
50	0	0	0	0.629	1.22	645	1.19	662
60	0	0	0	0.629	1.3	605	1.27	619
70	0	0	0	0.629	1.38	570	1.35	582
80	0	0	0	0.629	1.46	539	1.43	550
90	0	0	0	0.629	1.54	512	1.51	521
100	0	0	0	0.629	1.61	487	1.59	495
110	0	0	0	0.629	1.69	466	1.67	473
120	0	0	0	0.629	1.76	447	1.74	453
130	0	0	0	0.629	1.83	429	1.8	437
167	0	0	0	0.629	2.06	382	2.03	388
212	0	0	0	0.629	2.32	340	2.28	345

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.907	6.38	1500	6.38	1500*
0	0	0	0	0.629	5.48	576	5.43	581
30	0	0	0	0.629	5.77	547	5.73	551
40	0	0	0	0.629	5.87	538	5.82	542
50	0	0	0	0.629	5.96	530	5.92	533
60	0	0	0	0.629	6.05	522	6.01	525
70	0	0	0	0.629	6.14	514	6.11	517
80	0	0	0	0.629	6.23	506	6.2	509
90	0	0	0	0.629	6.32	499	6.29	502
100	0	0	0	0.629	6.41	493	6.38	495
110	0	0	0	0.629	6.5	486	6.47	488
120	0	0	0	0.629	6.58	480	6.56	482
130	0	0	0	0.629	6.67	474	6.64	476
167	0	0	0	0.629	6.96	454	6.92	457
212	0	0	0	0.629	7.29	434	7.25	436

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.152

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.907	14.44	1500	14.44	1500*
0	0	0	0	0.629	13.53	527	13.48	529
30	0	0	0	0.629	13.82	516	13.77	518
40	0	0	0	0.629	13.91	513	13.87	515
50	0	0	0	0.629	14.01	510	13.97	511
60	0	0	0	0.629	14.1	506	14.06	508
70	0	0	0	0.629	14.19	503	14.16	504
80	0	0	0	0.629	14.28	500	14.25	501
90	0	0	0	0.629	14.38	497	14.34	498
100	0	0	0	0.629	14.47	494	14.44	495
110	0	0	0	0.629	14.56	491	14.53	492
120	0	0	0	0.629	14.65	488	14.62	489
130	0	0	0	0.629	14.74	485	14.7	486
167	0	0	0	0.629	15.04	475	15	476
212	0	0	0	0.629	15.4	464	15.36	466

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.907	25.86	1500	25.86	1500*
0	0	0	0	0.629	24.96	512	24.91	513
30	0	0	0	0.629	25.24	506	25.19	507
40	0	0	0	0.629	25.33	505	25.29	505
50	0	0	0	0.629	25.42	503	25.38	504
60	0	0	0	0.629	25.52	501	25.48	502
70	0	0	0	0.629	25.61	499	25.57	500
80	0	0	0	0.629	25.7	498	25.67	498
90	0	0	0	0.629	25.79	496	25.76	496
100	0	0	0	0.629	25.89	494	25.85	495
110	0	0	0	0.629	25.98	492	25.95	493
120	0	0	0	0.629	26.07	491	26.04	491
130	0	0	0	0.629	26.16	489	26.13	490
167	0	0	0	0.629	26.47	484	26.43	484
212	0	0	0	0.629	26.84	477	26.8	478

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.153

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.907	40.8	1500	40.8	1500*
0	0	0	0	0.629	39.9	505	39.85	506
30	0	0	0	0.629	40.18	502	40.13	502
40	0	0	0	0.629	40.27	501	40.23	501
50	0	0	0	0.629	40.36	500	40.32	500
60	0	0	0	0.629	40.46	499	40.42	499
70	0	0	0	0.629	40.55	498	40.51	498
80	0	0	0	0.629	40.64	496	40.61	497
90	0	0	0	0.629	40.73	495	40.7	496
100	0	0	0	0.629	40.83	494	40.79	495
110	0	0	0	0.629	40.92	493	40.89	494
120	0	0	0	0.629	41.01	492	40.98	493
130	0	0	0	0.629	41.1	491	41.07	492
167	0	0	0	0.629	41.42	488	41.38	488
212	0	0	0	0.629	41.79	484	41.75	484

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.154

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-10	0-11	0-11
100.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
125.00	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-6	2-7
150.00	2-2	2-4	2-6	2-8	2-10	3-0	3-3	3-5	3-7	3-9
175.00	2-11	3-2	3-5	3-8	3-11	4-2	4-5	4-8	4-10	5-1
200.00	3-10	4-1	4-5	4-9	5-1	5-5	5-9	6-1	6-4	6-8

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11
100.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8
125.00	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-5	2-6	2-8
150.00	2-2	2-5	2-7	2-9	2-11	3-1	3-3	3-6	3-8	3-10
175.00	3-0	3-3	3-6	3-9	4-0	4-3	4-6	4-9	4-11	5-2
200.00	3-11	4-3	4-7	4-11	5-2	5-6	5-10	6-2	6-6	6-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.155

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-7	1-7
125.00	2-2	2-3	2-3	2-4	2-4	2-5	2-5	2-5	2-6	2-6
150.00	3-2	3-3	3-3	3-4	3-5	3-5	3-6	3-6	3-7	3-8
175.00	4-4	4-5	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-11
200.00	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-5	6-6
225.00	7-2	7-3	7-4	7-6	7-7	7-9	7-10	8-0	8-1	8-2
250.00	8-10	8-11	9-1	9-3	9-5	9-7	9-8	9-10	10-0	10-1

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-5	1-6	1-6	1-6	1-6	1-7	1-7	1-7	1-7
125.00	2-3	2-3	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-6
150.00	3-2	3-3	3-4	3-4	3-5	3-5	3-6	3-7	3-7	3-8
175.00	4-4	4-5	4-6	4-7	4-8	4-8	4-9	4-10	4-11	5-0
200.00	5-8	5-9	5-10	6-0	6-1	6-2	6-3	6-4	6-5	6-6
225.00	7-2	7-4	7-5	7-7	7-8	7-9	7-11	8-0	8-1	8-3
250.00	8-10	9-0	9-2	9-4	9-6	9-7	9-9	9-11	10-0	10-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.156

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-5	3-5	3-6	3-6	3-6	3-6	3-7	3-7	3-7	3-7
175.00	4-8	4-8	4-9	4-9	4-9	4-10	4-10	4-10	4-11	4-11
200.00	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5	6-5
225.00	7-8	7-9	7-10	7-10	7-11	7-11	8-0	8-1	8-1	8-2
250.00	9-6	9-7	9-7	9-8	9-9	9-10	9-11	9-11	10-0	10-1
275.00	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-1	12-2
300.00	13-8	13-9	13-10	14-0	14-1	14-2	14-3	14-4	14-5	14-6
325.00	16-1	16-2	16-3	16-5	16-6	16-7	16-9	16-10	16-11	17-1
350.00	18-8	18-9	18-11	19-0	19-2	19-3	19-5	19-7	19-8	19-10
375.00	21-5	21-7	21-8	21-10	22-0	22-2	22-4	22-5	22-7	22-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-5	3-5	3-6	3-6	3-6	3-6	3-7	3-7	3-7	3-8
175.00	4-8	4-8	4-9	4-9	4-9	4-10	4-10	4-11	4-11	4-11
200.00	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5	6-5	6-5
225.00	7-9	7-9	7-10	7-10	7-11	8-0	8-0	8-1	8-2	8-2
250.00	9-6	9-7	9-8	9-9	9-9	9-10	9-11	10-0	10-0	10-1
275.00	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3
300.00	13-9	13-10	13-11	14-0	14-1	14-2	14-3	14-5	14-6	14-7
325.00	16-1	16-3	16-4	16-5	16-7	16-8	16-9	16-11	17-0	17-1
350.00	18-8	18-10	18-11	19-1	19-3	19-4	19-6	19-7	19-9	19-10
375.00	21-6	21-8	21-9	21-11	22-1	22-3	22-4	22-6	22-8	22-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.157

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-3	6-3	6-4	6-4	6-4	6-4	6-5	6-5	6-5	6-6
225.00	7-11	7-11	8-0	8-0	8-0	8-1	8-1	8-1	8-2	8-2
250.00	9-9	9-10	9-10	9-11	9-11	9-11	10-0	10-0	10-1	10-1
275.00	11-10	11-10	11-11	12-0	12-0	12-1	12-1	12-2	12-2	12-3
300.00	14-1	14-2	14-2	14-3	14-4	14-4	14-5	14-5	14-6	14-7
325.00	16-6	16-7	16-8	16-9	16-9	16-10	16-11	17-0	17-0	17-1
350.00	19-2	19-3	19-4	19-5	19-6	19-7	19-8	19-8	19-9	19-10
375.00	22-1	22-2	22-3	22-4	22-5	22-6	22-7	22-8	22-9	22-9
400.00	25-1	25-2	25-3	25-5	25-6	25-7	25-8	25-9	25-10	25-11
425.00	28-4	28-6	28-7	28-8	28-9	28-11	29-0	29-1	29-2	29-4
450.00	31-10	31-11	32-1	32-2	32-3	32-5	32-6	32-8	32-9	32-11
475.00	35-6	35-7	35-9	35-10	36-0	36-2	36-3	36-5	36-6	36-8
500.00	39-4	39-6	39-8	39-9	39-11	40-1	40-3	40-5	40-6	40-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-3	6-3	6-4	6-4	6-4	6-5	6-5	6-5	6-5	6-6
225.00	7-11	7-11	8-0	8-0	8-1	8-1	8-1	8-2	8-2	8-2
250.00	9-9	9-10	9-10	9-11	9-11	10-0	10-0	10-1	10-1	10-1
275.00	11-10	11-11	11-11	12-0	12-0	12-1	12-1	12-2	12-2	12-3
300.00	14-1	14-2	14-3	14-3	14-4	14-4	14-5	14-6	14-6	14-7
325.00	16-7	16-8	16-8	16-9	16-10	16-11	16-11	17-0	17-1	17-1
350.00	19-3	19-4	19-4	19-5	19-6	19-7	19-8	19-9	19-10	19-10
375.00	22-1	22-2	22-3	22-4	22-5	22-6	22-7	22-8	22-9	22-10
400.00	25-2	25-3	25-4	25-5	25-6	25-7	25-8	25-10	25-11	26-0
425.00	28-5	28-6	28-7	28-9	28-10	28-11	29-0	29-2	29-3	29-4
450.00	31-10	32-0	32-1	32-3	32-4	32-6	32-7	32-8	32-10	32-11
475.00	35-6	35-8	35-10	35-11	36-1	36-2	36-4	36-5	36-7	36-9
500.00	39-5	39-7	39-8	39-10	40-0	40-2	40-3	40-5	40-7	40-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.158

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-11	10-0	10-0	10-0	10-0	10-1	10-1	10-1	10-2	10-2
275.00	12-0	12-1	12-1	12-2	12-2	12-2	12-3	12-3	12-3	12-4
300.00	14-4	14-4	14-5	14-5	14-6	14-6	14-6	14-7	14-7	14-8
325.00	16-10	16-10	16-11	16-11	17-0	17-0	17-1	17-1	17-2	17-2
350.00	19-6	19-7	19-8	19-8	19-9	19-9	19-10	19-10	19-11	19-11
375.00	22-5	22-6	22-7	22-7	22-8	22-8	22-9	22-10	22-10	22-11
400.00	25-7	25-7	25-8	25-9	25-9	25-10	25-11	26-0	26-0	26-1
425.00	28-10	28-11	29-0	29-1	29-2	29-2	29-3	29-4	29-5	29-6
450.00	32-5	32-5	32-6	32-7	32-8	32-9	32-10	32-11	33-0	33-1
475.00	36-1	36-2	36-3	36-4	36-5	36-6	36-7	36-8	36-9	36-10
500.00	40-0	40-2	40-3	40-4	40-5	40-6	40-7	40-8	40-10	40-11
525.00	44-2	44-3	44-5	44-6	44-7	44-8	44-10	44-11	45-0	45-1
550.00	48-6	48-8	48-9	48-11	49-0	49-1	49-3	49-4	49-5	49-7
575.00	53-1	53-3	53-4	53-6	53-7	53-9	53-10	54-0	54-1	54-3
600.00	57-10	58-0	58-2	58-3	58-5	58-7	58-8	58-10	59-0	59-1
625.00	62-10	63-0	63-2	63-4	63-5	63-7	63-9	63-11	64-1	64-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-11	10-0	10-0	10-0	10-1	10-1	10-1	10-1	10-2	10-2
275.00	12-1	12-1	12-1	12-2	12-2	12-2	12-3	12-3	12-3	12-4
300.00	14-4	14-5	14-5	14-5	14-6	14-6	14-7	14-7	14-7	14-8
325.00	16-10	16-11	16-11	17-0	17-0	17-1	17-1	17-1	17-2	17-2
350.00	19-7	19-7	19-8	19-8	19-9	19-9	19-10	19-10	19-11	20-0
375.00	22-6	22-6	22-7	22-7	22-8	22-9	22-9	22-10	22-11	22-11
400.00	25-7	25-8	25-8	25-9	25-10	25-10	25-11	26-0	26-1	26-1
425.00	28-11	29-0	29-0	29-1	29-2	29-3	29-4	29-4	29-5	29-6
450.00	32-5	32-6	32-7	32-8	32-9	32-9	32-10	32-11	33-0	33-1
475.00	36-2	36-3	36-4	36-5	36-6	36-7	36-8	36-9	36-10	36-11
500.00	40-1	40-2	40-3	40-4	40-5	40-7	40-8	40-9	40-10	40-11
525.00	44-3	44-4	44-5	44-6	44-8	44-9	44-10	44-11	45-1	45-2
550.00	48-7	48-8	48-10	48-11	49-0	49-2	49-3	49-5	49-6	49-7
575.00	53-2	53-3	53-5	53-6	53-8	53-9	53-11	54-0	54-2	54-3
600.00	57-11	58-1	58-2	58-4	58-6	58-7	58-9	58-11	59-0	59-2
625.00	62-11	63-1	63-3	63-4	63-6	63-8	63-10	63-11	64-1	64-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.159

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.907	1.19	2000	1.19	2000*
0	0	0	0	0.629	0.46	1724	0.45	1738
30	0	0	0	0.629	0.57	1383	0.56	1417
40	0	0	0	0.629	0.62	1277	0.6	1314
50	0	0	0	0.629	0.67	1176	0.65	1215
60	0	0	0	0.629	0.73	1081	0.7	1121
70	0	0	0	0.629	0.79	994	0.76	1033
80	0	0	0	0.629	0.86	914	0.83	951
90	0	0	0	0.629	0.93	842	0.9	876
100	0	0	0	0.629	1.01	777	0.97	808
110	0	0	0	0.629	1.09	721	1.05	748
120	0	0	0	0.629	1.17	671	1.13	695
130	0	0	0	0.629	1.25	628	1.21	648
167	0	0	0	0.629	1.53	514	1.48	531
212	0	0	0	0.629	1.83	431	1.78	442

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.907	4.78	2000	4.78	2000*
0	0	0	0	0.629	3.31	950	3.24	970
30	0	0	0	0.629	3.69	853	3.62	869
40	0	0	0	0.629	3.82	825	3.75	840
50	0	0	0	0.629	3.94	799	3.87	814
60	0	0	0	0.629	4.06	776	3.99	789
70	0	0	0	0.629	4.18	754	4.11	766
80	0	0	0	0.629	4.3	733	4.23	744
90	0	0	0	0.629	4.41	714	4.35	724
100	0	0	0	0.629	4.53	696	4.47	705
110	0	0	0	0.629	4.64	679	4.58	688
120	0	0	0	0.629	4.75	663	4.7	671
130	0	0	0	0.629	4.86	649	4.81	656
167	0	0	0	0.629	5.24	602	5.18	609
212	0	0	0	0.629	5.64	559	5.59	565

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.160

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.907	10.78	2000	10.78	2000*
0	0	0	0	0.629	9.26	767	9.18	774
30	0	0	0	0.629	9.65	736	9.57	742
40	0	0	0	0.629	9.78	727	9.7	732
50	0	0	0	0.629	9.91	717	9.83	723
60	0	0	0	0.629	10.03	709	9.96	714
70	0	0	0	0.629	10.15	700	10.08	705
80	0	0	0	0.629	10.28	692	10.21	697
90	0	0	0	0.629	10.4	684	10.33	688
100	0	0	0	0.629	10.52	676	10.45	680
110	0	0	0	0.629	10.64	669	10.58	672
120	0	0	0	0.629	10.75	661	10.7	665
130	0	0	0	0.629	10.87	654	10.82	658
167	0	0	0	0.629	11.28	631	11.22	634
212	0	0	0	0.629	11.74	607	11.67	610

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.907	19.25	2000	19.25	2000*
0	0	0	0	0.629	17.73	715	17.64	719
30	0	0	0	0.629	18.11	700	18.03	703
40	0	0	0	0.629	18.24	696	18.16	699
50	0	0	0	0.629	18.36	691	18.28	694
60	0	0	0	0.629	18.49	686	18.41	689
70	0	0	0	0.629	18.61	682	18.54	684
80	0	0	0	0.629	18.73	677	18.66	680
90	0	0	0	0.629	18.86	673	18.79	675
100	0	0	0	0.629	18.98	669	18.91	671
110	0	0	0	0.629	19.1	665	19.04	667
120	0	0	0	0.629	19.22	661	19.16	663
130	0	0	0	0.629	19.34	657	19.28	658
167	0	0	0	0.629	19.77	643	19.7	645
212	0	0	0	0.629	20.24	628	20.18	630

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.161

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.907	30.24	2000	30.24	2000*
0	0	0	0	0.629	28.72	694	28.63	696
30	0	0	0	0.629	29.1	685	29.02	687
40	0	0	0	0.629	29.22	682	29.14	684
50	0	0	0	0.629	29.35	679	29.27	681
60	0	0	0	0.629	29.47	676	29.4	678
70	0	0	0	0.629	29.6	673	29.52	675
80	0	0	0	0.629	29.72	671	29.65	672
90	0	0	0	0.629	29.84	668	29.77	670
100	0	0	0	0.629	29.96	665	29.9	667
110	0	0	0	0.629	30.09	663	30.02	664
120	0	0	0	0.629	30.21	660	30.15	661
130	0	0	0	0.629	30.33	658	30.27	659
167	0	0	0	0.629	30.76	649	30.7	650
212	0	0	0	0.629	31.25	639	31.19	640

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.162

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
100.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
125.00	0-10	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-8
150.00	1-2	1-3	1-4	1-5	1-7	1-9	1-10	2-0	2-2	2-4
175.00	1-7	1-8	1-10	2-0	2-2	2-4	2-6	2-9	3-0	3-3
200.00	2-1	2-3	2-5	2-7	2-10	3-1	3-4	3-7	3-11	4-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7
100.00	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1
125.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8
150.00	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-1	2-3	2-5
175.00	1-7	1-9	1-11	2-1	2-3	2-5	2-8	2-10	3-1	3-4
200.00	2-1	2-3	2-6	2-8	2-11	3-2	3-5	3-9	4-1	4-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.163

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-0	1-1	1-1	1-1	1-2
125.00	1-4	1-5	1-6	1-6	1-7	1-7	1-8	1-8	1-9	1-9
150.00	2-0	2-0	2-1	2-2	2-3	2-4	2-5	2-5	2-6	2-7
175.00	2-8	2-9	2-10	3-0	3-1	3-2	3-3	3-4	3-5	3-6
200.00	3-6	3-7	3-9	3-10	4-0	4-1	4-3	4-4	4-6	4-7
225.00	4-5	4-7	4-9	4-11	5-1	5-2	5-4	5-6	5-8	5-10
250.00	5-6	5-8	5-10	6-1	6-3	6-5	6-7	6-10	7-0	7-2

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	0-11	0-11	1-0	1-0	1-1	1-1	1-1	1-2	1-2
125.00	1-5	1-5	1-6	1-6	1-7	1-8	1-8	1-9	1-9	1-10
150.00	2-0	2-1	2-2	2-3	2-3	2-4	2-5	2-6	2-7	2-7
175.00	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-5	3-6	3-7
200.00	3-7	3-8	3-10	3-11	4-1	4-2	4-4	4-5	4-6	4-8
225.00	4-6	4-8	4-10	5-0	5-2	5-4	5-5	5-7	5-9	5-10
250.00	5-7	5-9	6-0	6-2	6-4	6-6	6-9	6-11	7-1	7-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.164

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-4	2-5	2-5	2-5	2-6	2-6	2-7	2-7	2-7	2-8
175.00	3-3	3-3	3-4	3-4	3-5	3-5	3-6	3-6	3-7	3-7
200.00	4-2	4-3	4-4	4-4	4-5	4-6	4-6	4-7	4-8	4-8
225.00	5-4	5-5	5-5	5-6	5-7	5-8	5-9	5-10	5-11	5-11
250.00	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4
275.00	7-11	8-0	8-2	8-3	8-4	8-6	8-7	8-8	8-9	8-11
300.00	9-5	9-7	9-8	9-10	9-11	10-1	10-2	10-4	10-5	10-7
325.00	11-1	11-3	11-5	11-6	11-8	11-10	12-0	12-2	12-3	12-5
350.00	12-10	13-0	13-3	13-5	13-7	13-9	13-11	14-1	14-3	14-5
375.00	14-9	15-0	15-2	15-4	15-7	15-9	16-0	16-2	16-4	16-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-5	2-5	2-5	2-6	2-6	2-6	2-7	2-7	2-8	2-8
175.00	3-3	3-3	3-4	3-4	3-5	3-5	3-6	3-6	3-7	3-7
200.00	4-3	4-3	4-4	4-5	4-5	4-6	4-7	4-7	4-8	4-9
225.00	5-4	5-5	5-6	5-7	5-8	5-8	5-9	5-10	5-11	6-0
250.00	6-7	6-8	6-9	6-11	7-0	7-1	7-2	7-3	7-4	7-5
275.00	8-0	8-1	8-3	8-4	8-5	8-6	8-8	8-9	8-10	8-11
300.00	9-6	9-8	9-9	9-11	10-0	10-2	10-3	10-5	10-6	10-8
325.00	11-2	11-4	11-6	11-8	11-9	11-11	12-1	12-2	12-4	12-6
350.00	13-0	13-2	13-4	13-6	13-8	13-10	14-0	14-2	14-4	14-6
375.00	14-11	15-1	15-4	15-6	15-8	15-11	16-1	16-3	16-5	16-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.165

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-6	4-6	4-6	4-7	4-7	4-7	4-8	4-8	4-9	4-9
225.00	5-8	5-8	5-9	5-9	5-10	5-10	5-11	5-11	6-0	6-0
250.00	7-0	7-0	7-1	7-2	7-2	7-3	7-3	7-4	7-4	7-5
275.00	8-5	8-6	8-7	8-8	8-8	8-9	8-10	8-10	8-11	9-0
300.00	10-1	10-2	10-2	10-3	10-4	10-5	10-6	10-7	10-7	10-8
325.00	11-10	11-11	12-0	12-1	12-2	12-3	12-4	12-5	12-6	12-7
350.00	13-8	13-10	13-11	14-0	14-1	14-2	14-3	14-4	14-6	14-7
375.00	15-9	15-10	15-11	16-1	16-2	16-3	16-5	16-6	16-7	16-9
400.00	17-11	18-0	18-2	18-3	18-5	18-6	18-8	18-9	18-11	19-0
425.00	20-3	20-4	20-6	20-8	20-10	20-11	21-1	21-3	21-4	21-6
450.00	22-8	22-10	23-0	23-2	23-4	23-6	23-8	23-10	23-11	24-1
475.00	25-3	25-5	25-8	25-10	26-0	26-2	26-4	26-6	26-8	26-11
500.00	28-0	28-3	28-5	28-7	28-10	29-0	29-3	29-5	29-7	29-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-6	4-6	4-7	4-7	4-7	4-8	4-8	4-8	4-9	4-9
225.00	5-8	5-9	5-9	5-10	5-10	5-11	5-11	5-11	6-0	6-0
250.00	7-0	7-1	7-1	7-2	7-3	7-3	7-4	7-4	7-5	7-5
275.00	8-6	8-7	8-7	8-8	8-9	8-9	8-10	8-11	8-11	9-0
300.00	10-1	10-2	10-3	10-4	10-5	10-5	10-6	10-7	10-8	10-9
325.00	11-10	11-11	12-0	12-1	12-2	12-3	12-4	12-5	12-6	12-7
350.00	13-9	13-10	13-11	14-1	14-2	14-3	14-4	14-5	14-6	14-7
375.00	15-10	15-11	16-0	16-2	16-3	16-4	16-6	16-7	16-8	16-9
400.00	18-0	18-1	18-3	18-4	18-6	18-7	18-9	18-10	19-0	19-1
425.00	20-4	20-5	20-7	20-9	20-11	21-0	21-2	21-4	21-5	21-7
450.00	22-9	22-11	23-1	23-3	23-5	23-7	23-9	23-11	24-0	24-2
475.00	25-5	25-7	25-9	25-11	26-1	26-3	26-5	26-7	26-10	27-0
500.00	28-2	28-4	28-6	28-9	28-11	29-2	29-4	29-6	29-8	29-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.166

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-2	7-3	7-3	7-4	7-4	7-4	7-5	7-5	7-5	7-6
275.00	8-9	8-9	8-9	8-10	8-10	8-11	8-11	9-0	9-0	9-1
300.00	10-4	10-5	10-6	10-6	10-7	10-7	10-8	10-8	10-9	10-9
325.00	12-2	12-3	12-3	12-4	12-5	12-5	12-6	12-7	12-7	12-8
350.00	14-1	14-2	14-3	14-4	14-4	14-5	14-6	14-7	14-7	14-8
375.00	16-3	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-9	16-10
400.00	18-6	18-6	18-7	18-8	18-9	18-10	18-11	19-0	19-1	19-2
425.00	20-10	20-11	21-0	21-1	21-3	21-4	21-5	21-6	21-7	21-8
450.00	23-5	23-6	23-7	23-8	23-9	23-11	24-0	24-1	24-2	24-4
475.00	26-1	26-2	26-3	26-5	26-6	26-8	26-9	26-10	27-0	27-1
500.00	28-11	29-0	29-2	29-3	29-5	29-6	29-8	29-9	29-11	30-0
525.00	31-10	32-0	32-2	32-3	32-5	32-7	32-8	32-10	33-0	33-1
550.00	35-0	35-2	35-4	35-5	35-7	35-9	35-11	36-1	36-3	36-4
575.00	38-3	38-5	38-7	38-9	38-11	39-1	39-3	39-5	39-7	39-9
600.00	41-8	41-10	42-1	42-3	42-5	42-7	42-9	43-0	43-2	43-4
625.00	45-3	45-5	45-8	45-10	46-1	46-3	46-5	46-8	46-10	47-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-3	7-3	7-3	7-4	7-4	7-4	7-5	7-5	7-6	7-6
275.00	8-9	8-9	8-10	8-10	8-11	8-11	9-0	9-0	9-0	9-1
300.00	10-5	10-5	10-6	10-6	10-7	10-7	10-8	10-9	10-9	10-10
325.00	12-3	12-3	12-4	12-4	12-5	12-6	12-6	12-7	12-8	12-8
350.00	14-2	14-3	14-3	14-4	14-5	14-6	14-6	14-7	14-8	14-8
375.00	16-3	16-4	16-5	16-6	16-7	16-7	16-8	16-9	16-10	16-11
400.00	18-6	18-7	18-8	18-9	18-10	18-11	19-0	19-1	19-2	19-3
425.00	20-11	21-0	21-1	21-2	21-3	21-4	21-5	21-6	21-7	21-9
450.00	23-5	23-7	23-8	23-9	23-10	23-11	24-1	24-2	24-3	24-4
475.00	26-2	26-3	26-4	26-6	26-7	26-8	26-10	26-11	27-0	27-2
500.00	29-0	29-1	29-3	29-4	29-6	29-7	29-9	29-10	30-0	30-1
525.00	31-11	32-1	32-3	32-4	32-6	32-8	32-9	32-11	33-1	33-2
550.00	35-1	35-3	35-5	35-7	35-8	35-10	36-0	36-2	36-4	36-5
575.00	38-4	38-6	38-8	38-10	39-0	39-2	39-4	39-6	39-8	39-10
600.00	41-10	42-0	42-2	42-4	42-6	42-8	42-11	43-1	43-3	43-5
625.00	45-5	45-7	45-9	46-0	46-2	46-4	46-7	46-9	46-11	47-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.167

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.13	3.94	1000	3.94	1000*
20	0	0	0	0.629	3.58	221	3.57	222
30	0	0	0	0.629	3.62	218	3.61	219
40	0	0	0	0.629	3.66	216	3.65	217
50	0	0	0	0.629	3.7	214	3.69	214
60	0	0	0	0.629	3.74	211	3.73	212
70	0	0	0	0.629	3.78	209	3.77	210
80	0	0	0	0.629	3.82	207	3.81	208
90	0	0	0	0.629	3.86	205	3.85	206
100	0	0	0	0.629	3.9	203	3.88	204
110	0	0	0	0.629	3.93	201	3.91	202
120	0	0	0	0.629	3.97	199	3.95	200
130	0	0	0	0.629	4	198	3.98	199
167	0	0	0	0.629	4.12	192	4.1	193
212	0	0	0	0.629	4.27	186	4.25	186

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.13	16.05	1000	16.05	1000*
20	0	0	0	0.629	15.71	205	15.69	205
30	0	0	0	0.629	15.75	205	15.73	205
40	0	0	0	0.629	15.78	204	15.77	204
50	0	0	0	0.629	15.82	204	15.81	204
60	0	0	0	0.629	15.86	203	15.85	203
70	0	0	0	0.629	15.9	203	15.89	203
80	0	0	0	0.629	15.94	202	15.93	203
90	0	0	0	0.629	15.97	202	15.96	202
100	0	0	0	0.629	16.01	201	16	202
110	0	0	0	0.629	16.05	201	16.03	201
120	0	0	0	0.629	16.08	201	16.06	201
130	0	0	0	0.629	16.12	200	16.1	200
167	0	0	0	0.629	16.24	199	16.23	199
212	0	0	0	0.629	16.4	197	16.38	197

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.168

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.13	37.41	1000	37.41	1000*
20	0	0	0	0.629	37.07	203	37.05	203
30	0	0	0	0.629	37.11	202	37.09	203
40	0	0	0	0.629	37.14	202	37.13	202
50	0	0	0	0.629	37.18	202	37.17	202
60	0	0	0	0.629	37.22	202	37.21	202
70	0	0	0	0.629	37.26	202	37.25	202
80	0	0	0	0.629	37.3	202	37.28	202
90	0	0	0	0.629	37.33	201	37.32	201
100	0	0	0	0.629	37.37	201	37.36	201
110	0	0	0	0.629	37.41	201	37.39	201
120	0	0	0	0.629	37.44	201	37.42	201
130	0	0	0	0.629	37.48	201	37.46	201
167	0	0	0	0.629	37.6	200	37.58	200
212	0	0	0	0.629	37.76	199	37.74	199

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.13	70.43	1000	70.43	1000*
20	0	0	0	0.629	70.09	202	70.08	202
30	0	0	0	0.629	70.13	202	70.11	202
40	0	0	0	0.629	70.17	202	70.15	202
50	0	0	0	0.629	70.2	201	70.19	202
60	0	0	0	0.629	70.24	201	70.23	201
70	0	0	0	0.629	70.28	201	70.27	201
80	0	0	0	0.629	70.32	201	70.3	201
90	0	0	0	0.629	70.35	201	70.34	201
100	0	0	0	0.629	70.39	201	70.37	201
110	0	0	0	0.629	70.43	201	70.41	201
120	0	0	0	0.629	70.46	201	70.44	201
130	0	0	0	0.629	70.49	201	70.48	201
167	0	0	0	0.629	70.62	201	70.6	201
212	0	0	0	0.629	70.77	200	70.75	200

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.169

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.13	121.11	1000	121.11	1000*
20	0	0	0	0.629	120.77	201	120.76	201
30	0	0	0	0.629	120.81	201	120.79	201
40	0	0	0	0.629	120.85	201	120.83	201
50	0	0	0	0.629	120.88	201	120.87	201
60	0	0	0	0.629	120.92	201	120.91	201
70	0	0	0	0.629	120.96	201	120.94	201
80	0	0	0	0.629	120.99	201	120.98	201
90	0	0	0	0.629	121.03	201	121.02	201
100	0	0	0	0.629	121.06	201	121.05	201
110	0	0	0	0.629	121.1	201	121.08	201
120	0	0	0	0.629	121.13	201	121.12	201
130	0	0	0	0.629	121.17	201	121.15	201
167	0	0	0	0.629	121.29	201	121.27	201
212	0	0	0	0.629	121.44	201	121.42	201

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.170

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-0	2-0	2-1	2-1	2-1	2-1	2-2	2-2	2-2	2-2
100.00	3-7	3-7	3-8	3-8	3-9	3-9	3-10	3-10	3-11	3-11
125.00	5-7	5-8	5-8	5-9	5-10	5-11	5-11	6-0	6-1	6-1
150.00	8-0	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10
175.00	10-11	11-1	11-3	11-4	11-6	11-7	11-9	11-10	11-11	12-0
200.00	14-4	14-6	14-8	14-10	15-0	15-2	15-4	15-6	15-7	15-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-0	2-0	2-1	2-1	2-1	2-1	2-2	2-2	2-2	2-3
100.00	3-7	3-7	3-8	3-8	3-9	3-9	3-10	3-10	3-11	3-11
125.00	5-7	5-8	5-9	5-9	5-10	5-11	6-0	6-0	6-1	6-2
150.00	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10
175.00	11-0	11-2	11-3	11-5	11-6	11-7	11-9	11-10	12-0	12-1
200.00	14-5	14-7	14-9	14-11	15-1	15-3	15-4	15-6	15-8	15-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.171

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-11	3-11	3-11	3-11	3-11	3-11	3-11	4-0	4-0	4-0
125.00	6-1	6-1	6-2	6-2	6-2	6-2	6-2	6-2	6-3	6-3
150.00	8-10	8-10	8-10	8-10	8-11	8-11	8-11	8-11	9-0	9-0
175.00	12-0	12-0	12-1	12-1	12-1	12-2	12-2	12-2	12-3	12-3
200.00	15-8	15-9	15-9	15-10	15-10	15-11	15-11	16-0	16-0	16-0
225.00	19-11	19-11	20-0	20-1	20-1	20-2	20-2	20-3	20-3	20-4
250.00	24-8	24-8	24-9	24-10	24-11	24-11	25-0	25-1	25-1	25-2

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-11	3-11	3-11	3-11	3-11	3-11	4-0	4-0	4-0	4-0
125.00	6-1	6-1	6-2	6-2	6-2	6-2	6-2	6-2	6-3	6-3
150.00	8-10	8-10	8-10	8-10	8-11	8-11	8-11	8-11	9-0	9-0
175.00	12-0	12-0	12-1	12-1	12-1	12-2	12-2	12-2	12-3	12-3
200.00	15-8	15-9	15-9	15-10	15-10	15-11	15-11	16-0	16-0	16-1
225.00	19-11	20-0	20-0	20-1	20-1	20-2	20-3	20-3	20-4	20-4
250.00	24-8	24-9	24-9	24-10	24-11	24-11	25-0	25-1	25-2	25-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.172

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	9-2	9-2	9-2	9-2	9-2	9-2	9-2	9-2	9-2	9-3
175.00	12-5	12-6	12-6	12-6	12-6	12-6	12-6	12-6	12-7	12-7
200.00	16-3	16-4	16-4	16-4	16-4	16-4	16-5	16-5	16-5	16-5
225.00	20-8	20-8	20-8	20-9	20-9	20-9	20-10	20-10	20-10	20-10
250.00	25-7	25-7	25-8	25-8	25-8	25-9	25-9	25-9	25-9	25-10
275.00	31-0	31-1	31-1	31-2	31-2	31-2	31-3	31-3	31-3	31-4
300.00	37-1	37-1	37-2	37-2	37-2	37-3	37-3	37-4	37-4	37-5
325.00	43-8	43-8	43-9	43-9	43-10	43-10	43-11	43-11	44-0	44-0
350.00	50-9	50-10	50-11	50-11	51-0	51-1	51-1	51-2	51-3	51-3
375.00	58-6	58-7	58-8	58-9	58-9	58-10	58-11	59-0	59-0	59-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	9-2	9-2	9-2	9-2	9-2	9-2	9-2	9-2	9-2	9-3
175.00	12-5	12-6	12-6	12-6	12-6	12-6	12-6	12-6	12-7	12-7
200.00	16-4	16-4	16-4	16-4	16-4	16-5	16-5	16-5	16-5	16-5
225.00	20-8	20-8	20-9	20-9	20-9	20-9	20-10	20-10	20-10	20-10
250.00	25-7	25-7	25-8	25-8	25-8	25-9	25-9	25-9	25-10	25-10
275.00	31-1	31-1	31-1	31-2	31-2	31-3	31-3	31-3	31-4	31-4
300.00	37-1	37-1	37-2	37-2	37-3	37-3	37-4	37-4	37-4	37-5
325.00	43-8	43-8	43-9	43-9	43-10	43-11	43-11	44-0	44-0	44-1
350.00	50-10	50-10	50-11	51-0	51-0	51-1	51-2	51-2	51-3	51-3
375.00	58-7	58-7	58-8	58-9	58-10	58-10	58-11	59-0	59-1	59-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.173

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	17-0	17-0	17-1	17-1	17-1	17-1	17-1	17-1	17-1	17-1
225.00	21-7	21-7	21-8	21-8	21-8	21-8	21-8	21-8	21-8	21-8
250.00	26-9	26-9	26-9	26-10	26-10	26-10	26-10	26-10	26-10	26-10
275.00	32-6	32-6	32-6	32-6	32-6	32-7	32-7	32-7	32-7	32-7
300.00	38-9	38-10	38-10	38-10	38-10	38-10	38-11	38-11	38-11	38-11
325.00	45-8	45-8	45-9	45-9	45-9	45-10	45-10	45-10	45-10	45-11
350.00	53-2	53-2	53-3	53-3	53-4	53-4	53-4	53-5	53-5	53-5
375.00	61-4	61-4	61-5	61-5	61-5	61-6	61-6	61-6	61-7	61-7
400.00	70-1	70-1	70-2	70-2	70-3	70-3	70-4	70-4	70-4	70-5
425.00	79-6	79-6	79-7	79-7	79-8	79-9	79-9	79-10	79-10	79-10
450.00	89-7	89-8	89-8	89-9	89-9	89-10	89-11	89-11	90-0	90-0
475.00	100-4	100-5	100-6	100-6	100-7	100-8	100-8	100-9	100-10	100-10
500.00	111-10	111-11	111-11	112-0	112-1	112-2	112-3	112-3	112-4	112-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	17-0	17-1	17-1	17-1	17-1	17-1	17-1	17-1	17-1	17-1
225.00	21-7	21-7	21-8	21-8	21-8	21-8	21-8	21-8	21-8	21-9
250.00	26-9	26-9	26-9	26-10	26-10	26-10	26-10	26-10	26-10	26-11
275.00	32-6	32-6	32-6	32-6	32-7	32-7	32-7	32-7	32-7	32-8
300.00	38-9	38-10	38-10	38-10	38-10	38-11	38-11	38-11	38-11	39-0
325.00	45-8	45-8	45-9	45-9	45-9	45-10	45-10	45-10	45-10	45-11
350.00	53-2	53-3	53-3	53-3	53-4	53-4	53-4	53-5	53-5	53-5
375.00	61-4	61-4	61-5	61-5	61-5	61-6	61-6	61-7	61-7	61-7
400.00	70-1	70-2	70-2	70-2	70-3	70-3	70-4	70-4	70-5	70-5
425.00	79-6	79-7	79-7	79-8	79-8	79-9	79-9	79-10	79-10	79-11
450.00	89-7	89-8	89-8	89-9	89-10	89-10	89-11	89-11	90-0	90-0
475.00	100-5	100-5	100-6	100-7	100-7	100-8	100-8	100-9	100-10	100-10
500.00	111-10	111-11	112-0	112-1	112-1	112-2	112-3	112-3	112-4	112-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.174

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	28-8	28-9	28-9	28-9	28-9	28-9	28-9	28-9	28-9	28-9
275.00	34-10	34-10	34-10	34-11	34-11	34-11	34-11	34-11	34-11	34-11
300.00	41-8	41-8	41-8	41-8	41-8	41-8	41-9	41-9	41-9	41-9
325.00	49-1	49-1	49-1	49-1	49-2	49-2	49-2	49-2	49-2	49-2
350.00	57-2	57-2	57-2	57-3	57-3	57-3	57-3	57-3	57-4	57-4
375.00	65-11	66-0	66-0	66-0	66-0	66-1	66-1	66-1	66-1	66-2
400.00	75-5	75-6	75-6	75-6	75-6	75-7	75-7	75-7	75-7	75-8
425.00	85-8	85-8	85-8	85-9	85-9	85-9	85-9	85-10	85-10	85-10
450.00	96-7	96-7	96-8	96-8	96-8	96-9	96-9	96-9	96-10	96-10
475.00	108-3	108-4	108-4	108-4	108-5	108-5	108-6	108-6	108-6	108-7
500.00	120-9	120-10	120-10	120-10	120-11	120-11	121-0	121-0	121-1	121-1
525.00	134-1	134-1	134-2	134-2	134-3	134-3	134-4	134-4	134-5	134-5
550.00	148-2	148-3	148-3	148-4	148-4	148-5	148-6	148-6	148-7	148-7
575.00	163-2	163-3	163-3	163-4	163-5	163-5	163-6	163-7	163-7	163-8
600.00	179-1	179-2	179-2	179-3	179-4	179-4	179-5	179-6	179-6	179-7
625.00	195-11	196-0	196-0	196-1	196-2	196-3	196-4	196-4	196-5	196-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	28-8	28-9	28-9	28-9	28-9	28-9	28-9	28-9	28-9	28-9
275.00	34-10	34-10	34-11	34-11	34-11	34-11	34-11	34-11	34-11	34-11
300.00	41-8	41-8	41-8	41-8	41-8	41-8	41-9	41-9	41-9	41-9
325.00	49-1	49-1	49-1	49-1	49-2	49-2	49-2	49-2	49-2	49-2
350.00	57-2	57-2	57-3	57-3	57-3	57-3	57-3	57-4	57-4	57-4
375.00	66-0	66-0	66-0	66-0	66-0	66-1	66-1	66-1	66-1	66-2
400.00	75-5	75-6	75-6	75-6	75-6	75-7	75-7	75-7	75-7	75-8
425.00	85-8	85-8	85-8	85-9	85-9	85-9	85-10	85-10	85-10	85-10
450.00	96-7	96-7	96-8	96-8	96-8	96-9	96-9	96-9	96-10	96-10
475.00	108-3	108-4	108-4	108-5	108-5	108-5	108-6	108-6	108-7	108-7
500.00	120-9	120-10	120-10	120-11	120-11	120-11	121-0	121-0	121-1	121-1
525.00	134-1	134-1	134-2	134-2	134-3	134-3	134-4	134-4	134-5	134-5
550.00	148-2	148-3	148-4	148-4	148-5	148-5	148-6	148-6	148-7	148-7
575.00	163-2	163-3	163-4	163-4	163-5	163-6	163-6	163-7	163-7	163-8
600.00	179-1	179-2	179-3	179-3	179-4	179-5	179-5	179-6	179-7	179-7
625.00	195-11	196-0	196-1	196-1	196-2	196-3	196-4	196-5	196-5	196-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.175

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.13	2.62	1500	2.62	1500*
20	0	0	0	0.629	1.87	420	1.84	429
30	0	0	0	0.629	1.94	406	1.91	413
40	0	0	0	0.629	2.01	392	1.98	399
50	0	0	0	0.629	2.07	380	2.04	386
60	0	0	0	0.629	2.14	368	2.11	374
70	0	0	0	0.629	2.2	358	2.17	363
80	0	0	0	0.629	2.26	348	2.24	352
90	0	0	0	0.629	2.32	339	2.3	343
100	0	0	0	0.629	2.38	331	2.36	334
110	0	0	0	0.629	2.44	323	2.41	327
120	0	0	0	0.629	2.5	316	2.46	320
130	0	0	0	0.629	2.55	309	2.52	313
167	0	0	0	0.629	2.73	289	2.7	292
212	0	0	0	0.629	2.94	269	2.9	272

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.13	10.55	1500	10.55	1500*
20	0	0	0	0.629	9.85	322	9.81	324
30	0	0	0	0.629	9.91	321	9.87	322
40	0	0	0	0.629	9.97	319	9.93	320
50	0	0	0	0.629	10.02	317	9.99	318
60	0	0	0	0.629	10.08	315	10.05	316
70	0	0	0	0.629	10.14	313	10.11	314
80	0	0	0	0.629	10.2	312	10.17	312
90	0	0	0	0.629	10.26	310	10.23	311
100	0	0	0	0.629	10.31	308	10.29	309
110	0	0	0	0.629	10.37	307	10.34	307
120	0	0	0	0.629	10.43	305	10.39	306
130	0	0	0	0.629	10.48	303	10.45	304
167	0	0	0	0.629	10.67	298	10.63	299
212	0	0	0	0.629	10.89	292	10.86	293

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.176

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.13	24.08	1500	24.08	1500*
20	0	0	0	0.629	23.39	310	23.35	310
30	0	0	0	0.629	23.44	309	23.41	310
40	0	0	0	0.629	23.5	308	23.47	309
50	0	0	0	0.629	23.56	308	23.53	308
60	0	0	0	0.629	23.62	307	23.59	307
70	0	0	0	0.629	23.67	306	23.65	307
80	0	0	0	0.629	23.73	306	23.71	306
90	0	0	0	0.629	23.79	305	23.76	305
100	0	0	0	0.629	23.84	304	23.82	305
110	0	0	0	0.629	23.9	304	23.87	304
120	0	0	0	0.629	23.96	303	23.92	303
130	0	0	0	0.629	24.01	302	23.98	303
167	0	0	0	0.629	24.2	300	24.17	300
212	0	0	0	0.629	24.43	297	24.4	298

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.13	43.73	1500	43.73	1500*
20	0	0	0	0.629	43.05	306	43.01	306
30	0	0	0	0.629	43.1	305	43.07	306
40	0	0	0	0.629	43.16	305	43.13	305
50	0	0	0	0.629	43.22	305	43.19	305
60	0	0	0	0.629	43.27	304	43.24	305
70	0	0	0	0.629	43.33	304	43.3	304
80	0	0	0	0.629	43.39	304	43.36	304
90	0	0	0	0.629	43.44	303	43.42	303
100	0	0	0	0.629	43.5	303	43.48	303
110	0	0	0	0.629	43.56	303	43.53	303
120	0	0	0	0.629	43.61	302	43.58	302
130	0	0	0	0.629	43.67	302	43.63	302
167	0	0	0	0.629	43.86	301	43.82	301
212	0	0	0	0.629	44.09	299	44.05	299

* Design Condition

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SHEET 177 OF 215

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.177

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.13	70.41	1500	70.41	1500*
20	0	0	0	0.629	69.72	304	69.69	304
30	0	0	0	0.629	69.78	304	69.75	304
40	0	0	0	0.629	69.84	304	69.81	304
50	0	0	0	0.629	69.89	303	69.86	303
60	0	0	0	0.629	69.95	303	69.92	303
70	0	0	0	0.629	70.01	303	69.98	303
80	0	0	0	0.629	70.06	303	70.04	303
90	0	0	0	0.629	70.12	303	70.1	303
100	0	0	0	0.629	70.18	302	70.15	302
110	0	0	0	0.629	70.23	302	70.2	302
120	0	0	0	0.629	70.29	302	70.25	302
130	0	0	0	0.629	70.34	302	70.31	302
167	0	0	0	0.629	70.53	301	70.5	301
212	0	0	0	0.629	70.76	300	70.73	300

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.178

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4
100.00	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-4	2-4	2-5
125.00	2-10	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9
150.00	4-2	4-4	4-5	4-7	4-9	4-11	5-0	5-2	5-4	5-5
175.00	5-8	5-10	6-1	6-3	6-6	6-8	6-10	7-1	7-3	7-5
200.00	7-4	7-8	7-11	8-2	8-5	8-9	9-0	9-3	9-5	9-8

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-1	1-1	1-2	1-2	1-2	1-3	1-3	1-4	1-4	1-4
100.00	1-10	1-11	2-0	2-1	2-2	2-2	2-3	2-4	2-5	2-5
125.00	2-11	3-0	3-2	3-3	3-4	3-5	3-6	3-8	3-9	3-10
150.00	4-3	4-4	4-6	4-8	4-10	4-11	5-1	5-3	5-4	5-6
175.00	5-9	5-11	6-2	6-4	6-7	6-9	6-11	7-1	7-4	7-6
200.00	7-6	7-9	8-1	8-4	8-7	8-10	9-1	9-4	9-7	9-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-5	2-6	2-6	2-6	2-6	2-6	2-6	2-7	2-7	2-7
125.00	3-10	3-10	3-10	3-11	3-11	3-11	4-0	4-0	4-0	4-0
150.00	5-6	5-7	5-7	5-7	5-8	5-8	5-9	5-9	5-9	5-10
175.00	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-11
200.00	9-10	9-10	9-11	10-0	10-1	10-1	10-2	10-3	10-3	10-4
225.00	12-5	12-6	12-7	12-8	12-9	12-10	12-11	13-0	13-0	13-1
250.00	15-4	15-5	15-7	15-8	15-9	15-10	15-11	16-0	16-1	16-2

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-5	2-6	2-6	2-6	2-6	2-6	2-7	2-7	2-7	2-7
125.00	3-10	3-10	3-11	3-11	3-11	3-11	4-0	4-0	4-0	4-1
150.00	5-6	5-7	5-7	5-8	5-8	5-8	5-9	5-9	5-10	5-10
175.00	7-6	7-7	7-7	7-8	7-9	7-9	7-10	7-10	7-11	7-11
200.00	9-10	9-11	10-0	10-0	10-1	10-2	10-2	10-3	10-4	10-4
225.00	12-6	12-7	12-7	12-8	12-9	12-10	12-11	13-0	13-1	13-2
250.00	15-5	15-6	15-7	15-8	15-9	15-11	16-0	16-1	16-2	16-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.180

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-10	5-10	5-10	5-10	5-10	5-11	5-11	5-11	5-11	5-11
175.00	7-11	7-11	7-11	8-0	8-0	8-0	8-0	8-1	8-1	8-1
200.00	10-4	10-4	10-5	10-5	10-5	10-6	10-6	10-6	10-6	10-7
225.00	13-1	13-1	13-2	13-2	13-3	13-3	13-3	13-4	13-4	13-5
250.00	16-2	16-3	16-3	16-4	16-4	16-5	16-5	16-6	16-6	16-6
275.00	19-7	19-8	19-8	19-9	19-10	19-10	19-11	19-11	20-0	20-0
300.00	23-4	23-5	23-6	23-6	23-7	23-8	23-8	23-9	23-10	23-10
325.00	27-5	27-6	27-7	27-8	27-9	27-9	27-10	27-11	28-0	28-1
350.00	31-11	31-11	32-0	32-1	32-2	32-3	32-4	32-5	32-6	32-7
375.00	36-8	36-9	36-10	36-11	37-0	37-1	37-3	37-4	37-5	37-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-10	5-10	5-10	5-10	5-10	5-11	5-11	5-11	5-11	5-11
175.00	7-11	7-11	7-11	8-0	8-0	8-0	8-0	8-1	8-1	8-1
200.00	10-4	10-4	10-5	10-5	10-5	10-6	10-6	10-6	10-7	10-7
225.00	13-1	13-2	13-2	13-2	13-3	13-3	13-4	13-4	13-4	13-5
250.00	16-2	16-3	16-3	16-4	16-4	16-5	16-5	16-6	16-6	16-7
275.00	19-8	19-8	19-9	19-9	19-10	19-10	19-11	20-0	20-0	20-1
300.00	23-5	23-5	23-6	23-7	23-7	23-8	23-9	23-9	23-10	23-11
325.00	27-6	27-7	27-7	27-8	27-9	27-10	27-11	27-11	28-0	28-1
350.00	31-11	32-0	32-1	32-2	32-3	32-4	32-5	32-6	32-7	32-8
375.00	36-8	36-10	36-11	37-0	37-1	37-2	37-3	37-4	37-5	37-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.181

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-8	10-8	10-8	10-8	10-8	10-8	10-9	10-9	10-9	10-9
225.00	13-6	13-6	13-6	13-6	13-7	13-7	13-7	13-7	13-7	13-8
250.00	16-8	16-8	16-8	16-9	16-9	16-9	16-9	16-10	16-10	16-10
275.00	20-2	20-2	20-3	20-3	20-3	20-4	20-4	20-4	20-5	20-5
300.00	24-0	24-1	24-1	24-2	24-2	24-2	24-3	24-3	24-4	24-4
325.00	28-3	28-3	28-4	28-4	28-5	28-5	28-6	28-6	28-7	28-7
350.00	32-10	32-10	32-11	32-11	33-0	33-0	33-1	33-1	33-2	33-2
375.00	37-9	37-9	37-10	37-11	37-11	38-0	38-0	38-1	38-2	38-2
400.00	43-0	43-1	43-2	43-2	43-3	43-4	43-4	43-5	43-6	43-6
425.00	48-8	48-9	48-9	48-10	48-11	49-0	49-1	49-1	49-2	49-3
450.00	54-8	54-9	54-10	54-11	54-11	55-0	55-1	55-2	55-3	55-4
475.00	61-0	61-1	61-2	61-3	61-4	61-5	61-6	61-7	61-8	61-9
500.00	67-9	67-10	67-11	68-1	68-2	68-3	68-4	68-5	68-6	68-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-8	10-8	10-8	10-8	10-8	10-9	10-9	10-9	10-9	10-9
225.00	13-6	13-6	13-6	13-6	13-7	13-7	13-7	13-7	13-7	13-8
250.00	16-8	16-8	16-8	16-9	16-9	16-9	16-10	16-10	16-10	16-10
275.00	20-2	20-3	20-3	20-3	20-3	20-4	20-4	20-4	20-5	20-5
300.00	24-1	24-1	24-1	24-2	24-2	24-3	24-3	24-3	24-4	24-4
325.00	28-3	28-4	28-4	28-5	28-5	28-5	28-6	28-6	28-7	28-7
350.00	32-10	32-11	32-11	33-0	33-0	33-1	33-1	33-2	33-2	33-3
375.00	37-9	37-10	37-10	37-11	38-0	38-0	38-1	38-1	38-2	38-3
400.00	43-1	43-1	43-2	43-3	43-3	43-4	43-5	43-5	43-6	43-7
425.00	48-8	48-9	48-10	48-11	48-11	49-0	49-1	49-2	49-2	49-3
450.00	54-8	54-9	54-10	54-11	55-0	55-1	55-2	55-2	55-3	55-4
475.00	61-1	61-2	61-3	61-4	61-5	61-6	61-7	61-8	61-9	61-10
500.00	67-10	67-11	68-0	68-1	68-2	68-3	68-4	68-6	68-7	68-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.182

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	17-1	17-1	17-2	17-2	17-2	17-2	17-2	17-2	17-3	17-3
275.00	20-9	20-9	20-9	20-9	20-9	20-10	20-10	20-10	20-10	20-10
300.00	24-8	24-9	24-9	24-9	24-9	24-10	24-10	24-10	24-10	24-10
325.00	29-0	29-1	29-1	29-1	29-1	29-2	29-2	29-2	29-3	29-3
350.00	33-9	33-9	33-9	33-10	33-10	33-10	33-11	33-11	33-11	34-0
375.00	38-9	38-10	38-10	38-11	38-11	38-11	39-0	39-0	39-0	39-1
400.00	44-3	44-3	44-3	44-4	44-4	44-5	44-5	44-6	44-6	44-6
425.00	50-0	50-1	50-1	50-2	50-2	50-3	50-3	50-4	50-4	50-4
450.00	56-2	56-3	56-3	56-4	56-4	56-5	56-6	56-6	56-7	56-7
475.00	62-9	62-10	62-10	62-11	62-11	63-0	63-1	63-1	63-2	63-2
500.00	69-8	69-9	69-10	69-10	69-11	70-0	70-0	70-1	70-2	70-2
525.00	77-0	77-1	77-2	77-3	77-3	77-4	77-5	77-6	77-6	77-7
550.00	84-9	84-10	84-11	85-0	85-1	85-1	85-2	85-3	85-4	85-5
575.00	92-11	93-0	93-1	93-2	93-3	93-3	93-4	93-5	93-6	93-7
600.00	101-5	101-6	101-7	101-8	101-9	101-10	101-11	102-1	102-2	102-2
625.00	110-5	110-6	110-7	110-8	110-9	110-10	111-0	111-1	111-2	111-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	17-1	17-2	17-2	17-2	17-2	17-2	17-2	17-2	17-3	17-3
275.00	20-9	20-9	20-9	20-9	20-10	20-10	20-10	20-10	20-10	20-11
300.00	24-9	24-9	24-9	24-9	24-9	24-10	24-10	24-10	24-10	24-11
325.00	29-1	29-1	29-1	29-1	29-2	29-2	29-2	29-2	29-3	29-3
350.00	33-9	33-9	33-10	33-10	33-10	33-10	33-11	33-11	33-11	34-0
375.00	38-10	38-10	38-10	38-11	38-11	38-11	39-0	39-0	39-1	39-1
400.00	44-3	44-3	44-4	44-4	44-4	44-5	44-5	44-6	44-6	44-7
425.00	50-0	50-1	50-1	50-2	50-2	50-3	50-3	50-4	50-4	50-5
450.00	56-3	56-3	56-4	56-4	56-5	56-5	56-6	56-6	56-7	56-7
475.00	62-9	62-10	62-11	62-11	63-0	63-0	63-1	63-2	63-2	63-3
500.00	69-9	69-9	69-10	69-11	69-11	70-0	70-1	70-1	70-2	70-3
525.00	77-1	77-2	77-2	77-3	77-4	77-5	77-5	77-6	77-7	77-8
550.00	84-10	84-10	84-11	85-0	85-1	85-2	85-3	85-3	85-4	85-5
575.00	92-11	93-0	93-1	93-2	93-3	93-4	93-5	93-6	93-7	93-8
600.00	101-6	101-7	101-8	101-9	101-10	101-11	102-0	102-1	102-2	102-3
625.00	110-5	110-7	110-8	110-9	110-10	110-11	111-0	111-1	111-2	111-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.183

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.13	1.96	2000	1.96	2000*
20	0	0	0	0.629	0.8	980	0.77	1018
30	0	0	0	0.629	0.87	901	0.84	939
40	0	0	0	0.629	0.95	830	0.91	866
50	0	0	0	0.629	1.03	767	0.98	800
60	0	0	0	0.629	1.11	712	1.06	741
70	0	0	0	0.629	1.19	663	1.14	689
80	0	0	0	0.629	1.27	621	1.22	644
90	0	0	0	0.629	1.35	584	1.3	603
100	0	0	0	0.629	1.43	551	1.39	568
110	0	0	0	0.629	1.51	522	1.47	537
120	0	0	0	0.629	1.58	497	1.54	510
130	0	0	0	0.629	1.66	474	1.62	487
167	0	0	0	0.629	1.9	414	1.85	425
212	0	0	0	0.629	2.17	363	2.12	371

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.13	7.87	2000	7.87	2000*
20	0	0	0	0.629	6.68	473	6.61	478
30	0	0	0	0.629	6.76	467	6.7	472
40	0	0	0	0.629	6.84	462	6.78	466
50	0	0	0	0.629	6.93	456	6.87	460
60	0	0	0	0.629	7.01	451	6.95	455
70	0	0	0	0.629	7.09	446	7.04	449
80	0	0	0	0.629	7.17	441	7.12	444
90	0	0	0	0.629	7.25	436	7.2	439
100	0	0	0	0.629	7.33	432	7.28	434
110	0	0	0	0.629	7.4	427	7.36	430
120	0	0	0	0.629	7.48	423	7.44	425
130	0	0	0	0.629	7.56	419	7.51	421
167	0	0	0	0.629	7.81	405	7.76	408
212	0	0	0	0.629	8.11	390	8.06	393

* Design Condition

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SHEET 184 OF 215

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.184

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.13	17.86	2000	17.86	2000*
20	0	0	0	0.629	16.69	429	16.63	431
30	0	0	0	0.629	16.76	427	16.71	429
40	0	0	0	0.629	16.84	425	16.79	427
50	0	0	0	0.629	16.92	423	16.87	425
60	0	0	0	0.629	17	422	16.95	423
70	0	0	0	0.629	17.08	420	17.03	421
80	0	0	0	0.629	17.16	418	17.11	419
90	0	0	0	0.629	17.23	416	17.18	417
100	0	0	0	0.629	17.31	414	17.26	415
110	0	0	0	0.629	17.39	412	17.34	413
120	0	0	0	0.629	17.46	411	17.41	412
130	0	0	0	0.629	17.54	409	17.48	410
167	0	0	0	0.629	17.79	403	17.74	405
212	0	0	0	0.629	18.1	397	18.04	398

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.13	32.11	2000	32.11	2000*
20	0	0	0	0.629	30.95	416	30.89	417
30	0	0	0	0.629	31.03	415	30.97	416
40	0	0	0	0.629	31.1	414	31.05	415
50	0	0	0	0.629	31.18	413	31.12	414
60	0	0	0	0.629	31.26	412	31.2	413
70	0	0	0	0.629	31.33	411	31.28	412
80	0	0	0	0.629	31.41	410	31.36	411
90	0	0	0	0.629	31.49	409	31.44	410
100	0	0	0	0.629	31.56	409	31.52	409
110	0	0	0	0.629	31.64	408	31.59	408
120	0	0	0	0.629	31.71	407	31.67	407
130	0	0	0	0.629	31.79	406	31.74	406
167	0	0	0	0.629	32.05	403	31.99	403
212	0	0	0	0.629	32.35	399	32.3	400

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.185

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.13	50.94	2000	50.94	2000*
20	0	0	0	0.629	49.79	411	49.73	411
30	0	0	0	0.629	49.87	410	49.81	410
40	0	0	0	0.629	49.94	409	49.89	410
50	0	0	0	0.629	50.02	409	49.96	409
60	0	0	0	0.629	50.09	408	50.04	409
70	0	0	0	0.629	50.17	408	50.12	408
80	0	0	0	0.629	50.25	407	50.2	407
90	0	0	0	0.629	50.32	406	50.27	407
100	0	0	0	0.629	50.4	406	50.35	406
110	0	0	0	0.629	50.47	405	50.43	406
120	0	0	0	0.629	50.55	405	50.5	405
130	0	0	0	0.629	50.62	404	50.57	405
167	0	0	0	0.629	50.88	402	50.82	403
212	0	0	0	0.629	51.19	400	51.13	401

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.186

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10
100.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
125.00	1-2	1-4	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-3
150.00	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-4
175.00	2-4	2-7	2-9	3-0	3-3	3-6	3-9	4-0	4-3	4-6
200.00	3-1	3-4	3-8	3-11	4-3	4-7	4-11	5-3	5-7	5-10

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-10
100.00	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
125.00	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-4
150.00	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-3	3-5
175.00	2-6	2-8	2-11	3-2	3-5	3-8	3-11	4-2	4-5	4-7
200.00	3-3	3-6	3-9	4-1	4-5	4-9	5-1	5-5	5-9	6-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.187

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-8	1-8	1-9	1-9	1-9	1-9	1-10	1-10	1-10
125.00	2-7	2-7	2-8	2-8	2-9	2-9	2-9	2-10	2-10	2-10
150.00	3-9	3-9	3-10	3-10	3-11	3-11	4-0	4-1	4-1	4-2
175.00	5-1	5-2	5-2	5-3	5-4	5-5	5-5	5-6	5-7	5-8
200.00	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4
225.00	8-4	8-6	8-7	8-8	8-10	8-11	9-0	9-1	9-3	9-4
250.00	10-4	10-6	10-7	10-9	10-10	11-0	11-2	11-3	11-5	11-6

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-8	1-9	1-9	1-9	1-9	1-9	1-10	1-10	1-10
125.00	2-7	2-8	2-8	2-8	2-9	2-9	2-10	2-10	2-10	2-11
150.00	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-1	4-1	4-2
175.00	5-1	5-2	5-3	5-4	5-4	5-5	5-6	5-7	5-7	5-8
200.00	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4	7-5
225.00	8-5	8-7	8-8	8-9	8-10	9-0	9-1	9-2	9-3	9-5
250.00	10-5	10-7	10-8	10-10	11-0	11-1	11-3	11-4	11-6	11-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.188

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-2	4-2	4-2	4-2	4-3	4-3	4-3	4-3	4-4	4-4
175.00	5-8	5-8	5-8	5-9	5-9	5-9	5-10	5-10	5-10	5-11
200.00	7-4	7-5	7-5	7-6	7-6	7-7	7-7	7-7	7-8	7-8
225.00	9-4	9-5	9-5	9-6	9-6	9-7	9-7	9-8	9-8	9-9
250.00	11-6	11-7	11-8	11-8	11-9	11-10	11-10	11-11	12-0	12-0
275.00	14-0	14-0	14-1	14-2	14-3	14-4	14-4	14-5	14-6	14-7
300.00	16-8	16-8	16-9	16-10	16-11	17-0	17-1	17-2	17-3	17-4
325.00	19-6	19-7	19-9	19-10	19-11	20-0	20-1	20-2	20-3	20-4
350.00	22-8	22-9	22-11	23-0	23-1	23-3	23-4	23-5	23-6	23-8
375.00	26-0	26-2	26-3	26-5	26-7	26-8	26-10	26-11	27-0	27-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-2	4-2	4-2	4-3	4-3	4-3	4-3	4-4	4-4	4-4
175.00	5-8	5-8	5-9	5-9	5-9	5-10	5-10	5-10	5-10	5-11
200.00	7-5	7-5	7-6	7-6	7-6	7-7	7-7	7-8	7-8	7-8
225.00	9-4	9-5	9-5	9-6	9-7	9-7	9-8	9-8	9-9	9-9
250.00	11-7	11-8	11-8	11-9	11-9	11-10	11-11	11-11	12-0	12-1
275.00	14-0	14-1	14-2	14-3	14-3	14-4	14-5	14-6	14-6	14-7
300.00	16-8	16-9	16-10	16-11	17-0	17-1	17-2	17-3	17-4	17-5
325.00	19-7	19-8	19-9	19-10	20-0	20-1	20-2	20-3	20-4	20-5
350.00	22-9	22-10	23-0	23-1	23-2	23-3	23-5	23-6	23-7	23-8
375.00	26-2	26-3	26-5	26-6	26-8	26-9	26-10	27-0	27-1	27-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.189

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-8	7-8	7-9	7-9	7-9	7-9	7-10	7-10	7-10	7-10
225.00	9-9	9-9	9-9	9-10	9-10	9-10	9-10	9-11	9-11	9-11
250.00	12-0	12-0	12-1	12-1	12-2	12-2	12-2	12-3	12-3	12-3
275.00	14-6	14-7	14-7	14-8	14-8	14-9	14-9	14-10	14-10	14-10
300.00	17-4	17-4	17-5	17-5	17-6	17-6	17-7	17-7	17-8	17-9
325.00	20-4	20-5	20-5	20-6	20-7	20-7	20-8	20-8	20-9	20-10
350.00	23-7	23-8	23-9	23-9	23-10	23-11	24-0	24-0	24-1	24-2
375.00	27-1	27-2	27-3	27-4	27-5	27-6	27-6	27-7	27-8	27-9
400.00	30-11	31-0	31-1	31-1	31-2	31-3	31-4	31-5	31-6	31-7
425.00	34-11	35-0	35-1	35-2	35-3	35-4	35-5	35-6	35-7	35-8
450.00	39-2	39-3	39-5	39-6	39-7	39-8	39-9	39-10	40-0	40-1
475.00	43-8	43-10	43-11	44-0	44-2	44-3	44-4	44-6	44-7	44-8
500.00	48-6	48-7	48-9	48-10	49-0	49-1	49-3	49-4	49-6	49-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-8	7-9	7-9	7-9	7-9	7-9	7-10	7-10	7-10	7-10
225.00	9-9	9-9	9-9	9-10	9-10	9-10	9-11	9-11	9-11	9-11
250.00	12-0	12-1	12-1	12-1	12-2	12-2	12-3	12-3	12-3	12-4
275.00	14-7	14-7	14-8	14-8	14-9	14-9	14-9	14-10	14-10	14-11
300.00	17-4	17-5	17-5	17-6	17-6	17-7	17-7	17-8	17-8	17-9
325.00	20-5	20-5	20-6	20-6	20-7	20-8	20-8	20-9	20-9	20-10
350.00	23-8	23-9	23-9	23-10	23-11	23-11	24-0	24-1	24-1	24-2
375.00	27-2	27-3	27-4	27-5	27-5	27-6	27-7	27-8	27-9	27-9
400.00	30-11	31-0	31-1	31-2	31-3	31-4	31-5	31-6	31-7	31-8
425.00	35-0	35-1	35-2	35-3	35-4	35-5	35-6	35-7	35-8	35-9
450.00	39-3	39-4	39-5	39-7	39-8	39-9	39-10	39-11	40-0	40-2
475.00	43-9	43-11	44-0	44-1	44-3	44-4	44-5	44-7	44-8	44-9
500.00	48-7	48-8	48-10	48-11	49-1	49-2	49-4	49-5	49-7	49-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.190

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	12-4	12-4	12-4	12-4	12-5	12-5	12-5	12-5	12-6	12-6
275.00	14-11	14-11	14-11	15-0	15-0	15-0	15-1	15-1	15-1	15-1
300.00	17-9	17-9	17-10	17-10	17-10	17-11	17-11	17-11	18-0	18-0
325.00	20-10	20-11	20-11	20-11	21-0	21-0	21-1	21-1	21-1	21-2
350.00	24-3	24-3	24-3	24-4	24-4	24-5	24-5	24-6	24-6	24-7
375.00	27-10	27-10	27-11	27-11	28-0	28-0	28-1	28-1	28-2	28-2
400.00	31-8	31-9	31-9	31-10	31-11	31-11	32-0	32-0	32-1	32-1
425.00	35-10	35-10	35-11	36-0	36-0	36-1	36-2	36-2	36-3	36-4
450.00	40-2	40-3	40-4	40-4	40-5	40-6	40-7	40-7	40-8	40-9
475.00	44-10	44-11	45-0	45-0	45-1	45-2	45-3	45-4	45-5	45-5
500.00	49-9	49-10	49-11	50-0	50-0	50-1	50-2	50-3	50-4	50-5
525.00	54-11	55-0	55-1	55-2	55-3	55-4	55-5	55-6	55-7	55-8
550.00	60-4	60-5	60-6	60-7	60-9	60-10	60-11	61-0	61-1	61-2
575.00	66-0	66-2	66-3	66-4	66-5	66-7	66-8	66-9	66-10	67-0
600.00	72-0	72-2	72-3	72-4	72-6	72-7	72-8	72-10	72-11	73-0
625.00	78-3	78-5	78-6	78-8	78-9	78-11	79-0	79-2	79-3	79-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	12-4	12-4	12-4	12-5	12-5	12-5	12-5	12-5	12-6	12-6
275.00	14-11	14-11	15-0	15-0	15-0	15-0	15-1	15-1	15-1	15-2
300.00	17-9	17-10	17-10	17-10	17-11	17-11	17-11	18-0	18-0	18-0
325.00	20-11	20-11	20-11	21-0	21-0	21-0	21-1	21-1	21-2	21-2
350.00	24-3	24-3	24-4	24-4	24-5	24-5	24-5	24-6	24-6	24-7
375.00	27-10	27-11	27-11	28-0	28-0	28-1	28-1	28-2	28-2	28-3
400.00	31-9	31-9	31-10	31-10	31-11	32-0	32-0	32-1	32-1	32-2
425.00	35-10	35-11	35-11	36-0	36-1	36-1	36-2	36-3	36-3	36-4
450.00	40-3	40-4	40-4	40-5	40-6	40-6	40-7	40-8	40-9	40-9
475.00	44-11	44-11	45-0	45-1	45-2	45-3	45-3	45-4	45-5	45-6
500.00	49-9	49-10	49-11	50-0	50-1	50-2	50-3	50-4	50-5	50-6
525.00	55-0	55-1	55-2	55-3	55-4	55-5	55-6	55-7	55-8	55-9
550.00	60-5	60-6	60-7	60-8	60-9	60-10	61-0	61-1	61-2	61-3
575.00	66-1	66-3	66-4	66-5	66-6	66-8	66-9	66-10	66-11	67-0
600.00	72-1	72-3	72-4	72-5	72-7	72-8	72-9	72-11	73-0	73-1
625.00	78-4	78-6	78-7	78-9	78-10	79-0	79-1	79-3	79-4	79-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.191

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.13	3.94	1000	3.94	1000*
0	0	0	0	0.629	3.62	218	3.6	219
30	0	0	0	0.629	3.74	211	3.73	212
40	0	0	0	0.629	3.78	209	3.77	210
50	0	0	0	0.629	3.82	207	3.81	208
60	0	0	0	0.629	3.86	205	3.84	206
70	0	0	0	0.629	3.9	203	3.88	204
80	0	0	0	0.629	3.93	201	3.92	202
90	0	0	0	0.629	3.97	199	3.96	200
100	0	0	0	0.629	4.01	198	3.99	198
110	0	0	0	0.629	4.04	196	4.02	197
120	0	0	0	0.629	4.08	194	4.06	195
130	0	0	0	0.629	4.11	193	4.09	193
167	0	0	0	0.629	4.23	187	4.21	188
212	0	0	0	0.629	4.37	181	4.35	182

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.13	16.05	1000	16.05	1000*
0	0	0	0	0.629	15.75	205	15.73	205
30	0	0	0	0.629	15.86	203	15.85	203
40	0	0	0	0.629	15.9	203	15.88	203
50	0	0	0	0.629	15.94	202	15.92	203
60	0	0	0	0.629	15.97	202	15.96	202
70	0	0	0	0.629	16.01	201	16	202
80	0	0	0	0.629	16.05	201	16.04	201
90	0	0	0	0.629	16.09	201	16.08	201
100	0	0	0	0.629	16.12	200	16.11	200
110	0	0	0	0.629	16.16	200	16.14	200
120	0	0	0	0.629	16.2	199	16.18	200
130	0	0	0	0.629	16.23	199	16.21	199
167	0	0	0	0.629	16.35	197	16.34	198
212	0	0	0	0.629	16.51	196	16.49	196

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.13	37.41	1000	37.41	1000*
0	0	0	0	0.629	37.11	202	37.09	203
30	0	0	0	0.629	37.22	202	37.21	202
40	0	0	0	0.629	37.26	202	37.24	202
50	0	0	0	0.629	37.3	202	37.28	202
60	0	0	0	0.629	37.33	201	37.32	201
70	0	0	0	0.629	37.37	201	37.36	201
80	0	0	0	0.629	37.41	201	37.4	201
90	0	0	0	0.629	37.45	201	37.43	201
100	0	0	0	0.629	37.48	201	37.47	201
110	0	0	0	0.629	37.52	200	37.5	201
120	0	0	0	0.629	37.55	200	37.54	200
130	0	0	0	0.629	37.59	200	37.57	200
167	0	0	0	0.629	37.71	200	37.7	200
212	0	0	0	0.629	37.87	199	37.85	199

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.13	70.43	1000	70.43	1000*
0	0	0	0	0.629	70.13	202	70.11	202
30	0	0	0	0.629	70.24	201	70.23	201
40	0	0	0	0.629	70.28	201	70.26	201
50	0	0	0	0.629	70.32	201	70.3	201
60	0	0	0	0.629	70.35	201	70.34	201
70	0	0	0	0.629	70.39	201	70.38	201
80	0	0	0	0.629	70.43	201	70.42	201
90	0	0	0	0.629	70.46	201	70.45	201
100	0	0	0	0.629	70.5	201	70.49	201
110	0	0	0	0.629	70.54	201	70.52	201
120	0	0	0	0.629	70.57	201	70.55	201
130	0	0	0	0.629	70.61	201	70.59	201
167	0	0	0	0.629	70.73	200	70.71	200
212	0	0	0	0.629	70.88	200	70.87	200

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.193

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.13	121.11	1000	121.11	1000*
0	0	0	0	0.629	120.81	201	120.79	201
30	0	0	0	0.629	120.92	201	120.9	201
40	0	0	0	0.629	120.96	201	120.94	201
50	0	0	0	0.629	120.99	201	120.98	201
60	0	0	0	0.629	121.03	201	121.02	201
70	0	0	0	0.629	121.06	201	121.05	201
80	0	0	0	0.629	121.1	201	121.09	201
90	0	0	0	0.629	121.14	201	121.13	201
100	0	0	0	0.629	121.17	201	121.16	201
110	0	0	0	0.629	121.21	201	121.19	201
120	0	0	0	0.629	121.24	201	121.23	201
130	0	0	0	0.629	121.28	201	121.26	201
167	0	0	0	0.629	121.4	201	121.38	201
212	0	0	0	0.629	121.55	201	121.53	201

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-1	2-1	2-1	2-2	2-2	2-2	2-2	2-3	2-3	2-3
100.00	3-8	3-9	3-9	3-10	3-10	3-11	3-11	3-11	4-0	4-0
125.00	5-9	5-10	5-11	5-11	6-0	6-1	6-2	6-2	6-3	6-4
150.00	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-11	9-0	9-1
175.00	11-4	11-5	11-7	11-8	11-10	11-11	12-1	12-2	12-3	12-5
200.00	14-10	15-0	15-2	15-4	15-6	15-8	15-9	15-11	16-1	16-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-1	2-1	2-1	2-2	2-2	2-2	2-3	2-3	2-3	2-3
100.00	3-8	3-9	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-1
125.00	5-9	5-10	5-11	6-0	6-0	6-1	6-2	6-3	6-3	6-4
150.00	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-11	9-0	9-1
175.00	11-5	11-6	11-7	11-9	11-10	12-0	12-1	12-3	12-4	12-5
200.00	14-11	15-1	15-3	15-4	15-6	15-8	15-10	16-0	16-2	16-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.195

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-11	3-11	3-11	3-11	4-0	4-0	4-0	4-0	4-0	4-0
125.00	6-2	6-2	6-2	6-2	6-2	6-3	6-3	6-3	6-3	6-3
150.00	8-10	8-11	8-11	8-11	8-11	9-0	9-0	9-0	9-0	9-1
175.00	12-1	12-1	12-2	12-2	12-2	12-3	12-3	12-3	12-4	12-4
200.00	15-10	15-10	15-11	15-11	16-0	16-0	16-0	16-1	16-1	16-2
225.00	20-1	20-1	20-2	20-2	20-3	20-4	20-4	20-5	20-5	20-6
250.00	24-10	24-10	24-11	25-0	25-1	25-1	25-2	25-3	25-3	25-4

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-11	3-11	3-11	4-0	4-0	4-0	4-0	4-0	4-0	4-0
125.00	6-2	6-2	6-2	6-2	6-2	6-3	6-3	6-3	6-3	6-3
150.00	8-10	8-11	8-11	8-11	8-11	9-0	9-0	9-0	9-0	9-1
175.00	12-1	12-1	12-2	12-2	12-2	12-3	12-3	12-4	12-4	12-4
200.00	15-10	15-10	15-11	15-11	16-0	16-0	16-1	16-1	16-1	16-2
225.00	20-1	20-1	20-2	20-3	20-3	20-4	20-4	20-5	20-5	20-6
250.00	24-10	24-11	24-11	25-0	25-1	25-2	25-2	25-3	25-4	25-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	9-2	9-2	9-2	9-2	9-2	9-2	9-3	9-3	9-3	9-3
175.00	12-6	12-6	12-6	12-6	12-6	12-7	12-7	12-7	12-7	12-7
200.00	16-4	16-4	16-4	16-5	16-5	16-5	16-5	16-5	16-6	16-6
225.00	20-9	20-9	20-9	20-9	20-10	20-10	20-10	20-10	20-11	20-11
250.00	25-8	25-8	25-9	25-9	25-9	25-9	25-10	25-10	25-10	25-11
275.00	31-2	31-2	31-2	31-3	31-3	31-4	31-4	31-4	31-5	31-5
300.00	37-2	37-2	37-3	37-3	37-4	37-4	37-5	37-5	37-6	37-6
325.00	43-9	43-10	43-10	43-11	43-11	44-0	44-1	44-1	44-2	44-2
350.00	50-11	51-0	51-1	51-1	51-2	51-3	51-3	51-4	51-4	51-5
375.00	58-9	58-9	58-10	58-11	59-0	59-0	59-1	59-2	59-2	59-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	9-2	9-2	9-2	9-2	9-2	9-2	9-3	9-3	9-3	9-3
175.00	12-6	12-6	12-6	12-6	12-6	12-7	12-7	12-7	12-7	12-7
200.00	16-4	16-4	16-5	16-5	16-5	16-5	16-5	16-6	16-6	16-6
225.00	20-9	20-9	20-9	20-10	20-10	20-10	20-10	20-11	20-11	20-11
250.00	25-8	25-8	25-9	25-9	25-9	25-10	25-10	25-10	25-10	25-11
275.00	31-2	31-2	31-3	31-3	31-3	31-4	31-4	31-4	31-5	31-5
300.00	37-2	37-3	37-3	37-4	37-4	37-4	37-5	37-5	37-6	37-6
325.00	43-9	43-10	43-11	43-11	44-0	44-0	44-1	44-1	44-2	44-2
350.00	51-0	51-0	51-1	51-2	51-2	51-3	51-3	51-4	51-5	51-5
375.00	58-9	58-10	58-10	58-11	59-0	59-1	59-1	59-2	59-3	59-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.197

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	17-1	17-1	17-1	17-1	17-1	17-1	17-1	17-1	17-1	17-2
225.00	21-8	21-8	21-8	21-8	21-8	21-8	21-8	21-9	21-9	21-9
250.00	26-10	26-10	26-10	26-10	26-10	26-10	26-11	26-11	26-11	26-11
275.00	32-6	32-6	32-7	32-7	32-7	32-7	32-7	32-8	32-8	32-8
300.00	38-10	38-10	38-10	38-11	38-11	38-11	38-11	39-0	39-0	39-0
325.00	45-9	45-9	45-10	45-10	45-10	45-10	45-11	45-11	45-11	45-11
350.00	53-3	53-4	53-4	53-4	53-5	53-5	53-5	53-6	53-6	53-6
375.00	61-5	61-5	61-6	61-6	61-6	61-7	61-7	61-8	61-8	61-8
400.00	70-2	70-3	70-3	70-4	70-4	70-5	70-5	70-5	70-6	70-6
425.00	79-7	79-8	79-9	79-9	79-10	79-10	79-11	79-11	80-0	80-0
450.00	89-9	89-9	89-10	89-11	89-11	90-0	90-0	90-1	90-1	90-2
475.00	100-6	100-7	100-8	100-8	100-9	100-10	100-10	100-11	101-0	101-0
500.00	112-0	112-1	112-2	112-2	112-3	112-4	112-5	112-5	112-6	112-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	17-1	17-1	17-1	17-1	17-1	17-1	17-1	17-1	17-2	17-2
225.00	21-8	21-8	21-8	21-8	21-8	21-8	21-9	21-9	21-9	21-9
250.00	26-10	26-10	26-10	26-10	26-10	26-10	26-11	26-11	26-11	26-11
275.00	32-6	32-7	32-7	32-7	32-7	32-7	32-8	32-8	32-8	32-8
300.00	38-10	38-10	38-11	38-11	38-11	38-11	39-0	39-0	39-0	39-0
325.00	45-9	45-9	45-10	45-10	45-10	45-10	45-11	45-11	45-11	46-0
350.00	53-3	53-4	53-4	53-4	53-5	53-5	53-5	53-6	53-6	53-6
375.00	61-5	61-5	61-6	61-6	61-7	61-7	61-7	61-8	61-8	61-9
400.00	70-2	70-3	70-3	70-4	70-4	70-5	70-5	70-6	70-6	70-6
425.00	79-8	79-8	79-9	79-9	79-10	79-10	79-11	79-11	80-0	80-0
450.00	89-9	89-10	89-10	89-11	89-11	90-0	90-0	90-1	90-2	90-2
475.00	100-7	100-7	100-8	100-8	100-9	100-10	100-10	100-11	101-0	101-0
500.00	112-1	112-1	112-2	112-3	112-3	112-4	112-5	112-6	112-6	112-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.198

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	28-9	28-9	28-9	28-9	28-9	28-9	28-9	28-9	28-9	28-10
275.00	34-11	34-11	34-11	34-11	34-11	34-11	34-11	34-11	35-0	35-0
300.00	41-8	41-8	41-8	41-9	41-9	41-9	41-9	41-9	41-9	41-9
325.00	49-1	49-2	49-2	49-2	49-2	49-2	49-2	49-3	49-3	49-3
350.00	57-3	57-3	57-3	57-3	57-3	57-4	57-4	57-4	57-4	57-4
375.00	66-0	66-0	66-1	66-1	66-1	66-1	66-2	66-2	66-2	66-2
400.00	75-6	75-6	75-7	75-7	75-7	75-7	75-8	75-8	75-8	75-8
425.00	85-9	85-9	85-9	85-9	85-10	85-10	85-10	85-11	85-11	85-11
450.00	96-8	96-8	96-9	96-9	96-9	96-10	96-10	96-10	96-11	96-11
475.00	108-4	108-5	108-5	108-6	108-6	108-6	108-7	108-7	108-8	108-8
500.00	120-10	120-11	120-11	121-0	121-0	121-1	121-1	121-2	121-2	121-2
525.00	134-2	134-3	134-3	134-4	134-4	134-5	134-5	134-6	134-6	134-7
550.00	148-4	148-4	148-5	148-6	148-6	148-7	148-7	148-8	148-8	148-9
575.00	163-4	163-5	163-5	163-6	163-7	163-7	163-8	163-8	163-9	163-10
600.00	179-3	179-4	179-4	179-5	179-6	179-7	179-7	179-8	179-9	179-9
625.00	196-1	196-2	196-3	196-3	196-4	196-5	196-6	196-7	196-7	196-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	28-9	28-9	28-9	28-9	28-9	28-9	28-9	28-9	28-10	28-10
275.00	34-11	34-11	34-11	34-11	34-11	34-11	34-11	34-11	35-0	35-0
300.00	41-8	41-8	41-8	41-9	41-9	41-9	41-9	41-9	41-9	41-9
325.00	49-1	49-2	49-2	49-2	49-2	49-2	49-2	49-3	49-3	49-3
350.00	57-3	57-3	57-3	57-3	57-4	57-4	57-4	57-4	57-4	57-5
375.00	66-0	66-0	66-1	66-1	66-1	66-1	66-2	66-2	66-2	66-2
400.00	75-6	75-6	75-7	75-7	75-7	75-7	75-8	75-8	75-8	75-9
425.00	85-9	85-9	85-9	85-10	85-10	85-10	85-10	85-11	85-11	85-11
450.00	96-8	96-8	96-9	96-9	96-9	96-10	96-10	96-10	96-11	96-11
475.00	108-5	108-5	108-5	108-6	108-6	108-7	108-7	108-7	108-8	108-8
500.00	120-11	120-11	120-11	121-0	121-0	121-1	121-1	121-2	121-2	121-3
525.00	134-2	134-3	134-3	134-4	134-4	134-5	134-5	134-6	134-6	134-7
550.00	148-4	148-5	148-5	148-6	148-6	148-7	148-7	148-8	148-9	148-9
575.00	163-4	163-5	163-6	163-6	163-7	163-7	163-8	163-9	163-9	163-10
600.00	179-3	179-4	179-5	179-5	179-6	179-7	179-7	179-8	179-9	179-9
625.00	196-1	196-2	196-3	196-4	196-5	196-5	196-6	196-7	196-8	196-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.199

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	3.13	2.62	1500	2.62	1500*
0	0	0	0	0.629	1.94	406	1.9	414
30	0	0	0	0.629	2.14	368	2.1	374
40	0	0	0	0.629	2.2	358	2.17	363
50	0	0	0	0.629	2.26	348	2.23	353
60	0	0	0	0.629	2.32	339	2.29	344
70	0	0	0	0.629	2.38	331	2.35	335
80	0	0	0	0.629	2.44	323	2.41	327
90	0	0	0	0.629	2.5	316	2.47	319
100	0	0	0	0.629	2.55	309	2.53	312
110	0	0	0	0.629	2.61	302	2.58	306
120	0	0	0	0.629	2.66	296	2.63	300
130	0	0	0	0.629	2.71	291	2.68	295
167	0	0	0	0.629	2.88	274	2.85	277
212	0	0	0	0.629	3.08	257	3.05	259

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	3.13	10.55	1500	10.55	1500*
0	0	0	0	0.629	9.91	321	9.87	322
30	0	0	0	0.629	10.08	315	10.05	316
40	0	0	0	0.629	10.14	313	10.11	314
50	0	0	0	0.629	10.2	312	10.17	313
60	0	0	0	0.629	10.26	310	10.23	311
70	0	0	0	0.629	10.31	308	10.29	309
80	0	0	0	0.629	10.37	307	10.34	307
90	0	0	0	0.629	10.43	305	10.4	306
100	0	0	0	0.629	10.48	303	10.46	304
110	0	0	0	0.629	10.54	302	10.51	303
120	0	0	0	0.629	10.6	300	10.56	301
130	0	0	0	0.629	10.65	299	10.61	300
167	0	0	0	0.629	10.83	294	10.8	295
212	0	0	0	0.629	11.05	288	11.02	289

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.13	24.08	1500	24.08	1500*
0	0	0	0	0.629	23.44	309	23.41	310
30	0	0	0	0.629	23.62	307	23.58	307
40	0	0	0	0.629	23.67	306	23.64	307
50	0	0	0	0.629	23.73	306	23.7	306
60	0	0	0	0.629	23.79	305	23.76	305
70	0	0	0	0.629	23.84	304	23.82	305
80	0	0	0	0.629	23.9	304	23.88	304
90	0	0	0	0.629	23.96	303	23.93	303
100	0	0	0	0.629	24.01	302	23.99	303
110	0	0	0	0.629	24.07	302	24.04	302
120	0	0	0	0.629	24.13	301	24.09	301
130	0	0	0	0.629	24.18	300	24.14	301
167	0	0	0	0.629	24.37	298	24.33	298
212	0	0	0	0.629	24.6	295	24.56	296

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.13	43.73	1500	43.73	1500*
0	0	0	0	0.629	43.1	305	43.07	306
30	0	0	0	0.629	43.27	304	43.24	305
40	0	0	0	0.629	43.33	304	43.3	304
50	0	0	0	0.629	43.39	304	43.36	304
60	0	0	0	0.629	43.44	303	43.41	303
70	0	0	0	0.629	43.5	303	43.47	303
80	0	0	0	0.629	43.56	303	43.53	303
90	0	0	0	0.629	43.61	302	43.59	302
100	0	0	0	0.629	43.67	302	43.64	302
110	0	0	0	0.629	43.73	302	43.7	302
120	0	0	0	0.629	43.78	301	43.75	301
130	0	0	0	0.629	43.83	301	43.8	301
167	0	0	0	0.629	44.02	300	43.99	300
212	0	0	0	0.629	44.25	298	44.22	298

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.201

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.13	70.41	1500	70.41	1500*
0	0	0	0	0.629	69.78	304	69.74	304
30	0	0	0	0.629	69.95	303	69.92	303
40	0	0	0	0.629	70.01	303	69.98	303
50	0	0	0	0.629	70.06	303	70.03	303
60	0	0	0	0.629	70.12	303	70.09	303
70	0	0	0	0.629	70.18	302	70.15	302
80	0	0	0	0.629	70.23	302	70.21	302
90	0	0	0	0.629	70.29	302	70.26	302
100	0	0	0	0.629	70.34	302	70.32	302
110	0	0	0	0.629	70.4	301	70.37	302
120	0	0	0	0.629	70.46	301	70.42	301
130	0	0	0	0.629	70.51	301	70.47	301
167	0	0	0	0.629	70.7	300	70.66	301
212	0	0	0	0.629	70.93	300	70.89	300

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-5	1-5	1-5
100.00	2-0	2-1	2-2	2-3	2-4	2-4	2-5	2-6	2-6	2-7
125.00	3-2	3-3	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
150.00	4-7	4-9	4-11	5-0	5-2	5-4	5-5	5-7	5-8	5-10
175.00	6-3	6-5	6-8	6-10	7-0	7-3	7-5	7-7	7-9	7-11
200.00	8-2	8-5	8-8	8-11	9-2	9-5	9-8	9-11	10-2	10-4

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-2	1-3	1-3	1-4	1-4	1-4	1-5	1-5	1-6
100.00	2-1	2-2	2-2	2-3	2-4	2-5	2-5	2-6	2-7	2-7
125.00	3-3	3-4	3-5	3-6	3-8	3-9	3-10	3-11	4-0	4-1
150.00	4-8	4-10	4-11	5-1	5-3	5-4	5-6	5-7	5-9	5-10
175.00	6-4	6-7	6-9	6-11	7-1	7-4	7-6	7-8	7-10	8-0
200.00	8-4	8-7	8-10	9-1	9-4	9-7	9-9	10-0	10-3	10-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-6	2-6	2-6	2-6	2-7	2-7	2-7	2-7	2-7	2-7
125.00	3-11	3-11	3-11	4-0	4-0	4-0	4-0	4-1	4-1	4-1
150.00	5-7	5-8	5-8	5-9	5-9	5-9	5-10	5-10	5-10	5-11
175.00	7-8	7-8	7-9	7-9	7-10	7-10	7-11	7-11	8-0	8-0
200.00	10-0	10-1	10-1	10-2	10-3	10-3	10-4	10-5	10-6	10-6
225.00	12-8	12-9	12-10	12-11	12-11	13-0	13-1	13-2	13-3	13-4
250.00	15-8	15-9	15-10	15-11	16-0	16-1	16-2	16-3	16-5	16-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-6	2-6	2-6	2-7	2-7	2-7	2-7	2-7	2-7	2-8
125.00	3-11	3-11	3-11	4-0	4-0	4-0	4-1	4-1	4-1	4-1
150.00	5-8	5-8	5-8	5-9	5-9	5-10	5-10	5-10	5-11	5-11
175.00	7-8	7-9	7-9	7-10	7-10	7-11	7-11	8-0	8-0	8-1
200.00	10-0	10-1	10-2	10-2	10-3	10-4	10-4	10-5	10-6	10-6
225.00	12-8	12-9	12-10	12-11	13-0	13-1	13-2	13-3	13-3	13-4
250.00	15-8	15-9	15-11	16-0	16-1	16-2	16-3	16-4	16-5	16-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.204

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-10	5-10	5-10	5-11	5-11	5-11	5-11	5-11	6-0	6-0
175.00	8-0	8-0	8-0	8-0	8-0	8-1	8-1	8-1	8-1	8-2
200.00	10-5	10-5	10-6	10-6	10-6	10-6	10-7	10-7	10-7	10-8
225.00	13-2	13-3	13-3	13-3	13-4	13-4	13-5	13-5	13-5	13-6
250.00	16-4	16-4	16-5	16-5	16-5	16-6	16-6	16-7	16-7	16-8
275.00	19-9	19-9	19-10	19-11	19-11	20-0	20-0	20-1	20-2	20-2
300.00	23-6	23-7	23-8	23-8	23-9	23-10	23-11	23-11	24-0	24-1
325.00	27-8	27-9	27-9	27-10	27-11	28-0	28-1	28-2	28-2	28-3
350.00	32-1	32-2	32-3	32-4	32-5	32-6	32-7	32-8	32-9	32-10
375.00	36-11	37-0	37-1	37-2	37-4	37-5	37-6	37-7	37-8	37-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-10	5-10	5-11	5-11	5-11	5-11	5-11	5-11	6-0	6-0
175.00	8-0	8-0	8-0	8-0	8-1	8-1	8-1	8-1	8-2	8-2
200.00	10-5	10-5	10-6	10-6	10-6	10-7	10-7	10-7	10-7	10-8
225.00	13-2	13-3	13-3	13-4	13-4	13-4	13-5	13-5	13-6	13-6
250.00	16-4	16-4	16-5	16-5	16-6	16-6	16-7	16-7	16-8	16-8
275.00	19-9	19-10	19-10	19-11	20-0	20-0	20-1	20-1	20-2	20-2
300.00	23-7	23-7	23-8	23-9	23-9	23-10	23-11	23-11	24-0	24-1
325.00	27-8	27-9	27-10	27-11	27-11	28-0	28-1	28-2	28-3	28-3
350.00	32-2	32-3	32-4	32-5	32-6	32-7	32-8	32-8	32-9	32-10
375.00	37-0	37-1	37-2	37-3	37-4	37-5	37-6	37-7	37-8	37-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-8	10-8	10-8	10-9	10-9	10-9	10-9	10-9	10-9	10-10
225.00	13-6	13-6	13-7	13-7	13-7	13-7	13-8	13-8	13-8	13-8
250.00	16-9	16-9	16-9	16-9	16-10	16-10	16-10	16-10	16-11	16-11
275.00	20-3	20-3	20-4	20-4	20-4	20-5	20-5	20-5	20-6	20-6
300.00	24-2	24-2	24-2	24-3	24-3	24-3	24-4	24-4	24-5	24-5
325.00	28-4	28-5	28-5	28-6	28-6	28-7	28-7	28-8	28-8	28-8
350.00	32-11	33-0	33-0	33-1	33-1	33-2	33-3	33-3	33-4	33-4
375.00	37-11	37-11	38-0	38-0	38-1	38-2	38-2	38-3	38-3	38-4
400.00	43-2	43-3	43-4	43-4	43-5	43-6	43-6	43-7	43-8	43-8
425.00	48-10	48-11	49-0	49-0	49-1	49-2	49-3	49-4	49-4	49-5
450.00	54-10	54-11	55-0	55-1	55-2	55-3	55-4	55-5	55-6	55-6
475.00	61-3	61-4	61-5	61-6	61-7	61-8	61-9	61-10	61-11	62-0
500.00	68-1	68-2	68-3	68-4	68-5	68-6	68-7	68-8	68-9	68-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-8	10-8	10-9	10-9	10-9	10-9	10-9	10-9	10-10	10-10
225.00	13-6	13-7	13-7	13-7	13-7	13-7	13-8	13-8	13-8	13-8
250.00	16-9	16-9	16-9	16-10	16-10	16-10	16-10	16-11	16-11	16-11
275.00	20-3	20-3	20-4	20-4	20-4	20-5	20-5	20-5	20-6	20-6
300.00	24-2	24-2	24-3	24-3	24-3	24-4	24-4	24-4	24-5	24-5
325.00	28-5	28-5	28-5	28-6	28-6	28-7	28-7	28-8	28-8	28-9
350.00	33-0	33-0	33-1	33-1	33-2	33-2	33-3	33-3	33-4	33-4
375.00	37-11	38-0	38-0	38-1	38-1	38-2	38-3	38-3	38-4	38-4
400.00	43-3	43-3	43-4	43-5	43-5	43-6	43-7	43-7	43-8	43-9
425.00	48-11	48-11	49-0	49-1	49-2	49-2	49-3	49-4	49-5	49-6
450.00	54-11	55-0	55-1	55-2	55-2	55-3	55-4	55-5	55-6	55-7
475.00	61-4	61-5	61-6	61-7	61-8	61-9	61-10	61-11	62-0	62-1
500.00	68-1	68-2	68-3	68-4	68-6	68-7	68-8	68-9	68-10	68-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.206

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	17-2	17-2	17-2	17-2	17-2	17-3	17-3	17-3	17-3	17-3
275.00	20-9	20-9	20-10	20-10	20-10	20-10	20-10	20-11	20-11	20-11
300.00	24-9	24-9	24-10	24-10	24-10	24-10	24-10	24-11	24-11	24-11
325.00	29-1	29-1	29-2	29-2	29-2	29-3	29-3	29-3	29-3	29-4
350.00	33-10	33-10	33-10	33-11	33-11	33-11	34-0	34-0	34-0	34-1
375.00	38-10	38-11	38-11	39-0	39-0	39-0	39-1	39-1	39-1	39-2
400.00	44-4	44-4	44-5	44-5	44-6	44-6	44-6	44-7	44-7	44-8
425.00	50-2	50-2	50-3	50-3	50-4	50-4	50-4	50-5	50-5	50-6
450.00	56-4	56-4	56-5	56-6	56-6	56-7	56-7	56-8	56-8	56-9
475.00	62-11	62-11	63-0	63-1	63-1	63-2	63-2	63-3	63-4	63-4
500.00	69-10	69-11	70-0	70-0	70-1	70-2	70-2	70-3	70-4	70-4
525.00	77-3	77-3	77-4	77-5	77-6	77-6	77-7	77-8	77-9	77-9
550.00	85-0	85-0	85-1	85-2	85-3	85-4	85-5	85-6	85-6	85-7
575.00	93-2	93-2	93-3	93-4	93-5	93-6	93-7	93-8	93-9	93-10
600.00	101-8	101-9	101-10	101-11	102-0	102-1	102-2	102-4	102-5	102-5
625.00	110-8	110-9	110-10	111-0	111-1	111-2	111-3	111-4	111-5	111-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	17-2	17-2	17-2	17-2	17-2	17-3	17-3	17-3	17-3	17-3
275.00	20-9	20-10	20-10	20-10	20-10	20-10	20-11	20-11	20-11	20-11
300.00	24-9	24-9	24-10	24-10	24-10	24-10	24-11	24-11	24-11	24-11
325.00	29-1	29-2	29-2	29-2	29-2	29-3	29-3	29-3	29-4	29-4
350.00	33-10	33-10	33-10	33-11	33-11	33-11	34-0	34-0	34-0	34-1
375.00	38-11	38-11	38-11	39-0	39-0	39-1	39-1	39-1	39-2	39-2
400.00	44-4	44-4	44-5	44-5	44-6	44-6	44-7	44-7	44-7	44-8
425.00	50-2	50-2	50-3	50-3	50-4	50-4	50-5	50-5	50-6	50-6
450.00	56-4	56-5	56-5	56-6	56-6	56-7	56-7	56-8	56-9	56-9
475.00	62-11	63-0	63-0	63-1	63-2	63-2	63-3	63-3	63-4	63-5
500.00	69-11	69-11	70-0	70-1	70-1	70-2	70-3	70-3	70-4	70-5
525.00	77-3	77-4	77-5	77-5	77-6	77-7	77-8	77-8	77-9	77-10
550.00	85-0	85-1	85-2	85-3	85-3	85-4	85-5	85-6	85-7	85-8
575.00	93-2	93-3	93-4	93-5	93-6	93-7	93-8	93-8	93-9	93-10
600.00	101-9	101-10	101-11	102-0	102-1	102-2	102-3	102-4	102-5	102-6
625.00	110-9	110-10	110-11	111-0	111-1	111-2	111-3	111-4	111-6	111-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.207

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.13	1.96	2000	1.96	2000*
0	0	0	0	0.629	0.87	901	0.83	943
30	0	0	0	0.629	1.11	712	1.06	745
40	0	0	0	0.629	1.19	663	1.13	693
50	0	0	0	0.629	1.27	621	1.22	647
60	0	0	0	0.629	1.35	584	1.3	607
70	0	0	0	0.629	1.43	551	1.38	571
80	0	0	0	0.629	1.51	522	1.46	540
90	0	0	0	0.629	1.58	497	1.54	512
100	0	0	0	0.629	1.66	474	1.61	488
110	0	0	0	0.629	1.73	454	1.69	466
120	0	0	0	0.629	1.81	436	1.76	447
130	0	0	0	0.629	1.87	420	1.83	431
167	0	0	0	0.629	2.1	375	2.05	384
212	0	0	0	0.629	2.35	336	2.3	342

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.13	7.87	2000	7.87	2000*
0	0	0	0	0.629	6.76	467	6.69	472
30	0	0	0	0.629	7.01	451	6.94	455
40	0	0	0	0.629	7.09	446	7.03	450
50	0	0	0	0.629	7.17	441	7.11	445
60	0	0	0	0.629	7.25	436	7.19	440
70	0	0	0	0.629	7.33	432	7.27	435
80	0	0	0	0.629	7.4	427	7.35	430
90	0	0	0	0.629	7.48	423	7.43	426
100	0	0	0	0.629	7.56	419	7.51	421
110	0	0	0	0.629	7.63	414	7.59	417
120	0	0	0	0.629	7.71	410	7.66	413
130	0	0	0	0.629	7.78	407	7.73	409
167	0	0	0	0.629	8.03	394	7.97	397
212	0	0	0	0.629	8.32	381	8.27	383

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.208

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	3.13	17.86	2000	17.86	2000*
0	0	0	0	0.629	16.76	427	16.7	429
30	0	0	0	0.629	17	422	16.94	423
40	0	0	0	0.629	17.08	420	17.02	421
50	0	0	0	0.629	17.16	418	17.1	419
60	0	0	0	0.629	17.23	416	17.18	417
70	0	0	0	0.629	17.31	414	17.26	416
80	0	0	0	0.629	17.39	412	17.33	414
90	0	0	0	0.629	17.46	411	17.41	412
100	0	0	0	0.629	17.54	409	17.49	410
110	0	0	0	0.629	17.61	407	17.57	408
120	0	0	0	0.629	17.69	406	17.64	407
130	0	0	0	0.629	17.76	404	17.71	405
167	0	0	0	0.629	18.01	399	17.96	400
212	0	0	0	0.629	18.31	392	18.26	393

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	3.13	32.11	2000	32.11	2000*
0	0	0	0	0.629	31.03	415	30.96	416
30	0	0	0	0.629	31.26	412	31.2	413
40	0	0	0	0.629	31.33	411	31.27	412
50	0	0	0	0.629	31.41	410	31.35	411
60	0	0	0	0.629	31.49	409	31.43	410
70	0	0	0	0.629	31.56	409	31.51	409
80	0	0	0	0.629	31.64	408	31.59	408
90	0	0	0	0.629	31.71	407	31.66	407
100	0	0	0	0.629	31.79	406	31.74	406
110	0	0	0	0.629	31.86	405	31.82	405
120	0	0	0	0.629	31.94	404	31.89	405
130	0	0	0	0.629	32.01	403	31.96	404
167	0	0	0	0.629	32.27	400	32.21	401
212	0	0	0	0.629	32.57	397	32.52	397

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.13	50.94	2000	50.94	2000*
0	0	0	0	0.629	49.87	410	49.8	410
30	0	0	0	0.629	50.09	408	50.03	409
40	0	0	0	0.629	50.17	408	50.11	408
50	0	0	0	0.629	50.25	407	50.19	407
60	0	0	0	0.629	50.32	406	50.27	407
70	0	0	0	0.629	50.4	406	50.34	406
80	0	0	0	0.629	50.47	405	50.42	406
90	0	0	0	0.629	50.55	405	50.5	405
100	0	0	0	0.629	50.62	404	50.58	405
110	0	0	0	0.629	50.7	404	50.65	404
120	0	0	0	0.629	50.77	403	50.72	404
130	0	0	0	0.629	50.85	403	50.79	403
167	0	0	0	0.629	51.1	401	51.05	401
212	0	0	0	0.629	51.41	399	51.35	399

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.210

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11
100.00	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8
125.00	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-5	2-6	2-8
150.00	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-5	3-8	3-10
175.00	3-0	3-3	3-6	3-9	4-0	4-3	4-6	4-8	4-11	5-2
200.00	3-11	4-3	4-6	4-10	5-2	5-6	5-10	6-2	6-6	6-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-7	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0
100.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
125.00	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-6	2-7	2-9
150.00	2-4	2-6	2-8	2-10	3-0	3-3	3-5	3-7	3-9	3-11
175.00	3-2	3-5	3-8	3-11	4-2	4-5	4-7	4-10	5-1	5-4
200.00	4-1	4-5	4-9	5-1	5-5	5-9	6-0	6-4	6-8	6-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-9	1-10	1-10	1-10	1-10	1-10	1-11
125.00	2-8	2-9	2-9	2-9	2-10	2-10	2-10	2-11	2-11	3-0
150.00	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-2	4-3	4-3
175.00	5-3	5-4	5-5	5-5	5-6	5-7	5-8	5-8	5-9	5-10
200.00	6-10	6-11	7-0	7-1	7-2	7-3	7-4	7-5	7-6	7-7
225.00	8-8	8-10	8-11	9-0	9-1	9-2	9-4	9-5	9-6	9-7
250.00	10-9	10-10	11-0	11-1	11-3	11-4	11-6	11-7	11-9	11-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-9	1-10	1-10	1-10	1-10	1-11	1-11
125.00	2-8	2-9	2-9	2-10	2-10	2-10	2-11	2-11	2-11	3-0
150.00	3-11	3-11	4-0	4-0	4-1	4-1	4-2	4-2	4-3	4-3
175.00	5-4	5-4	5-5	5-6	5-7	5-7	5-8	5-9	5-9	5-10
200.00	6-11	7-0	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8
225.00	8-9	8-10	9-0	9-1	9-2	9-3	9-5	9-6	9-7	9-8
250.00	10-10	11-0	11-1	11-3	11-4	11-6	11-7	11-8	11-10	11-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-2	4-3	4-3	4-3	4-3	4-4	4-4	4-4	4-4	4-5
175.00	5-9	5-9	5-9	5-10	5-10	5-10	5-11	5-11	5-11	6-0
200.00	7-6	7-6	7-7	7-7	7-7	7-8	7-8	7-9	7-9	7-9
225.00	9-6	9-6	9-7	9-7	9-8	9-8	9-9	9-9	9-10	9-10
250.00	11-8	11-9	11-10	11-10	11-11	12-0	12-0	12-1	12-2	12-2
275.00	14-2	14-3	14-3	14-4	14-5	14-6	14-7	14-7	14-8	14-9
300.00	16-10	16-11	17-0	17-1	17-2	17-3	17-4	17-5	17-6	17-7
325.00	19-10	19-11	20-0	20-1	20-2	20-3	20-4	20-5	20-7	20-8
350.00	23-0	23-1	23-2	23-4	23-5	23-6	23-8	23-9	23-10	23-11
375.00	26-5	26-6	26-8	26-9	26-11	27-0	27-2	27-3	27-5	27-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-3	4-3	4-3	4-3	4-4	4-4	4-4	4-4	4-4	4-5
175.00	5-9	5-9	5-10	5-10	5-10	5-10	5-11	5-11	5-11	6-0
200.00	7-6	7-6	7-7	7-7	7-8	7-8	7-8	7-9	7-9	7-10
225.00	9-6	9-7	9-7	9-8	9-8	9-9	9-9	9-10	9-10	9-11
250.00	11-9	11-9	11-10	11-11	11-11	12-0	12-1	12-1	12-2	12-3
275.00	14-3	14-3	14-4	14-5	14-6	14-6	14-7	14-8	14-9	14-9
300.00	16-11	17-0	17-1	17-2	17-3	17-4	17-5	17-6	17-6	17-7
325.00	19-10	20-0	20-1	20-2	20-3	20-4	20-5	20-6	20-7	20-8
350.00	23-1	23-2	23-3	23-5	23-6	23-7	23-8	23-10	23-11	24-0
375.00	26-6	26-8	26-9	26-10	27-0	27-1	27-3	27-4	27-6	27-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.213

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-9	7-9	7-9	7-9	7-10	7-10	7-10	7-10	7-11	7-11
225.00	9-10	9-10	9-10	9-10	9-11	9-11	9-11	10-0	10-0	10-0
250.00	12-1	12-2	12-2	12-2	12-3	12-3	12-3	12-4	12-4	12-4
275.00	14-8	14-8	14-9	14-9	14-10	14-10	14-10	14-11	14-11	15-0
300.00	17-5	17-6	17-6	17-7	17-7	17-8	17-8	17-9	17-9	17-10
325.00	20-6	20-6	20-7	20-8	20-8	20-9	20-10	20-10	20-11	20-11
350.00	23-9	23-10	23-11	24-0	24-0	24-1	24-2	24-2	24-3	24-4
375.00	27-4	27-5	27-6	27-6	27-7	27-8	27-9	27-10	27-10	27-11
400.00	31-1	31-2	31-3	31-4	31-5	31-6	31-7	31-8	31-9	31-10
425.00	35-2	35-3	35-4	35-5	35-6	35-7	35-8	35-9	35-10	36-0
450.00	39-6	39-7	39-8	39-9	39-10	40-0	40-1	40-2	40-3	40-4
475.00	44-0	44-2	44-3	44-4	44-6	44-7	44-8	44-10	44-11	45-0
500.00	48-10	49-0	49-1	49-3	49-4	49-5	49-7	49-8	49-10	49-11

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-9	7-9	7-9	7-10	7-10	7-10	7-10	7-11	7-11	7-11
225.00	9-10	9-10	9-10	9-11	9-11	9-11	9-11	10-0	10-0	10-0
250.00	12-1	12-2	12-2	12-3	12-3	12-3	12-4	12-4	12-4	12-5
275.00	14-8	14-9	14-9	14-9	14-10	14-10	14-11	14-11	15-0	15-0
300.00	17-6	17-6	17-7	17-7	17-8	17-8	17-9	17-9	17-10	17-10
325.00	20-6	20-7	20-8	20-8	20-9	20-9	20-10	20-11	20-11	21-0
350.00	23-10	23-11	23-11	24-0	24-1	24-1	24-2	24-3	24-4	24-4
375.00	27-5	27-5	27-6	27-7	27-8	27-9	27-9	27-10	27-11	28-0
400.00	31-2	31-3	31-4	31-5	31-6	31-7	31-8	31-9	31-9	31-10
425.00	35-3	35-4	35-5	35-6	35-7	35-8	35-9	35-10	35-11	36-0
450.00	39-7	39-8	39-9	39-10	39-11	40-0	40-2	40-3	40-4	40-5
475.00	44-1	44-3	44-4	44-5	44-7	44-8	44-9	44-10	45-0	45-1
500.00	48-11	49-1	49-2	49-4	49-5	49-7	49-8	49-9	49-11	50-0

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STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.214

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	12-4	12-5	12-5	12-5	12-5	12-6	12-6	12-6	12-6	12-6
275.00	15-0	15-0	15-0	15-1	15-1	15-1	15-1	15-2	15-2	15-2
300.00	17-10	17-10	17-11	17-11	17-11	18-0	18-0	18-0	18-1	18-1
325.00	20-11	21-0	21-0	21-1	21-1	21-1	21-2	21-2	21-2	21-3
350.00	24-4	24-4	24-5	24-5	24-6	24-6	24-6	24-7	24-7	24-8
375.00	27-11	28-0	28-0	28-1	28-1	28-2	28-2	28-3	28-3	28-4
400.00	31-10	31-10	31-11	32-0	32-0	32-1	32-1	32-2	32-3	32-3
425.00	36-0	36-0	36-1	36-2	36-2	36-3	36-4	36-4	36-5	36-6
450.00	40-4	40-5	40-6	40-7	40-7	40-8	40-9	40-10	40-10	40-11
475.00	45-0	45-1	45-2	45-3	45-4	45-5	45-5	45-6	45-7	45-8
500.00	49-11	50-0	50-1	50-2	50-3	50-4	50-5	50-6	50-7	50-8
525.00	55-2	55-3	55-4	55-5	55-6	55-7	55-8	55-9	55-10	55-11
550.00	60-7	60-8	60-10	60-11	61-0	61-1	61-2	61-3	61-4	61-6
575.00	66-4	66-5	66-7	66-8	66-9	66-10	67-0	67-1	67-2	67-3
600.00	72-4	72-6	72-7	72-8	72-10	72-11	73-0	73-2	73-3	73-4
625.00	78-8	78-9	78-10	79-0	79-1	79-3	79-4	79-6	79-7	79-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	12-5	12-5	12-5	12-5	12-5	12-6	12-6	12-6	12-6	12-7
275.00	15-0	15-0	15-0	15-1	15-1	15-1	15-2	15-2	15-2	15-2
300.00	17-10	17-11	17-11	17-11	18-0	18-0	18-0	18-1	18-1	18-1
325.00	21-0	21-0	21-0	21-1	21-1	21-2	21-2	21-2	21-3	21-3
350.00	24-4	24-5	24-5	24-5	24-6	24-6	24-7	24-7	24-8	24-8
375.00	28-0	28-0	28-1	28-1	28-2	28-2	28-3	28-3	28-4	28-4
400.00	31-10	31-11	32-0	32-0	32-1	32-1	32-2	32-2	32-3	32-4
425.00	36-0	36-1	36-1	36-2	36-3	36-3	36-4	36-5	36-5	36-6
450.00	40-5	40-6	40-6	40-7	40-8	40-9	40-9	40-10	40-11	41-0
475.00	45-1	45-2	45-3	45-3	45-4	45-5	45-6	45-7	45-8	45-8
500.00	50-0	50-1	50-2	50-3	50-4	50-5	50-6	50-7	50-7	50-8
525.00	55-3	55-4	55-5	55-6	55-7	55-8	55-9	55-10	55-11	56-0
550.00	60-8	60-9	60-10	61-0	61-1	61-2	61-3	61-4	61-5	61-6
575.00	66-5	66-6	66-8	66-9	66-10	66-11	67-0	67-2	67-3	67-4
600.00	72-5	72-7	72-8	72-9	72-11	73-0	73-1	73-3	73-4	73-5
625.00	78-9	78-10	79-0	79-1	79-3	79-4	79-5	79-7	79-8	79-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.215

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 336.4 RTS TRIPLEX CONDUCTOR. CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION
- 1000 LB TENSION ---------- 823.2
- 1500 LB TENSION ---------- 823.10
- 2000 LB TENSION ---------- 823.18

G.O. 95 HEAVY LOADING CONDITION
- 1000 LB TENSION ---------- 823.26
- 1500 LB TENSION ---------- 823.32
- 2000 LB TENSION ---------- 823.40

SDG&E EXTRA HEAVY LOADING CONDITION
- 1000 LB TENSION ---------- 823.48
- 1500 LB TENSION ---------- 823.51
- 2000 LB TENSION ---------- 823.57

65 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 823.65
- 1500 LB TENSION ---------- 823.73
- 2000 LB TENSION ---------- 823.81

65 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 823.89
- 1500 LB TENSION ---------- 823.97
- 2000 LB TENSION ---------- 823.105

85 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 823.113
- 1500 LB TENSION ---------- 823.119
- 2000 LB TENSION ---------- 823.127

85 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 823.135
- 1500 LB TENSION ---------- 823.141
- 2000 LB TENSION ---------- 823.149

111 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 823.157
- 1500 LB TENSION ---------- 823.162
- 2000 LB TENSION ---------- 823.170

111 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 823.178
- 1500 LB TENSION ---------- 823.183
- 2000 LB TENSION ---------- 823.191

REFERENCE:

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

336.4 RTS TRIPLEX TABLE OF CONTENTS

OH823.1

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.746	2.28	960	2.19	1000*
25	0	0	0	1.12	2.16	651	2.03	691
30	0	0	0	1.12	2.2	638	2.07	678
40	0	0	0	1.12	2.28	616	2.15	652
50	0	0	0	1.12	2.36	595	2.23	629
60	0	0	0	1.12	2.44	576	2.31	608
70	0	0	0	1.12	2.51	559	2.38	589
80	0	0	0	1.12	2.59	543	2.46	571
90	0	0	0	1.12	2.66	528	2.53	555
100	0	0	0	1.12	2.73	514	2.6	540
110	0	0	0	1.12	2.8	502	2.67	526
120	0	0	0	1.12	2.87	490	2.74	513
130	0	0	0	1.12	2.92	481	2.81	500
167	0	0	0	1.12	3.07	458	3.05	461
212	0	0	0	1.12	3.24	433	3.23	435

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.746	8.92	987	8.8	1000*
25	0	0	0	1.12	8.78	643	8.63	654
30	0	0	0	1.12	8.82	640	8.67	651
40	0	0	0	1.12	8.91	633	8.76	644
50	0	0	0	1.12	9	627	8.85	638
60	0	0	0	1.12	9.09	621	8.93	632
70	0	0	0	1.12	9.18	615	9.02	626
80	0	0	0	1.12	9.26	610	9.1	620
90	0	0	0	1.12	9.35	604	9.19	615
100	0	0	0	1.12	9.43	599	9.27	609
110	0	0	0	1.12	9.52	594	9.36	604
120	0	0	0	1.12	9.6	589	9.44	599
130	0	0	0	1.12	9.68	584	9.52	593
167	0	0	0	1.12	9.92	570	9.82	576
212	0	0	0	1.12	10.15	557	10.13	558

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.2

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.746	20.12	994	20	1000*
25	0	0	0	1.12	19.98	642	19.82	647
30	0	0	0	1.12	20.02	641	19.87	645
40	0	0	0	1.12	20.11	638	19.96	643
50	0	0	0	1.12	20.2	635	20.04	640
60	0	0	0	1.12	20.3	632	20.13	637
70	0	0	0	1.12	20.39	630	20.22	634
80	0	0	0	1.12	20.48	627	20.31	632
90	0	0	0	1.12	20.56	624	20.4	629
100	0	0	0	1.12	20.65	622	20.48	627
110	0	0	0	1.12	20.74	619	20.57	624
120	0	0	0	1.12	20.83	617	20.66	621
130	0	0	0	1.12	20.92	614	20.75	619
167	0	0	0	1.12	21.19	606	21.06	610
212	0	0	0	1.12	21.45	599	21.43	600

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.746	36.19	997	36.07	1000*
25	0	0	0	1.12	36.05	642	35.89	644
30	0	0	0	1.12	36.09	641	35.94	644
40	0	0	0	1.12	36.19	639	36.03	642
50	0	0	0	1.12	36.28	638	36.12	641
60	0	0	0	1.12	36.37	636	36.2	639
70	0	0	0	1.12	36.46	635	36.29	638
80	0	0	0	1.12	36.55	633	36.38	636
90	0	0	0	1.12	36.64	632	36.47	635
100	0	0	0	1.12	36.73	630	36.56	633
110	0	0	0	1.12	36.82	629	36.65	632
120	0	0	0	1.12	36.91	628	36.74	630
130	0	0	0	1.12	37	626	36.83	629
167	0	0	0	1.12	37.3	622	37.15	624
212	0	0	0	1.12	37.56	617	37.54	618

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.3

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Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.746	57.6	998	57.47	1000*
25	0	0	0	1.12	57.45	641	57.3	643
30	0	0	0	1.12	57.5	641	57.34	643
40	0	0	0	1.12	57.59	640	57.43	642
50	0	0	0	1.12	57.68	639	57.52	641
60	0	0	0	1.12	57.78	638	57.61	640
70	0	0	0	1.12	57.87	637	57.7	639
80	0	0	0	1.12	57.96	636	57.79	638
90	0	0	0	1.12	58.05	636	57.88	637
100	0	0	0	1.12	58.14	635	57.97	636
110	0	0	0	1.12	58.23	634	58.06	636
120	0	0	0	1.12	58.32	633	58.15	635
130	0	0	0	1.12	58.41	632	58.23	634
167	0	0	0	1.12	58.72	629	58.56	631
212	0	0	0	1.12	58.98	627	58.96	627

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-1	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6
100.00	2-0	2-1	2-2	2-3	2-4	2-5	2-5	2-6	2-7	2-8
125.00	3-1	3-3	3-4	3-6	3-7	3-9	3-10	3-11	4-1	4-2
150.00	4-6	4-8	4-10	5-0	5-2	5-4	5-6	5-8	5-10	6-0
175.00	6-1	6-4	6-7	6-10	7-1	7-4	7-6	7-9	8-0	8-2
200.00	8-0	8-3	8-7	8-11	9-3	9-7	9-10	10-2	10-5	10-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7
100.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
125.00	3-4	3-5	3-7	3-8	3-10	3-11	4-1	4-2	4-3	4-5
150.00	4-9	4-11	5-2	5-4	5-6	5-8	5-10	6-0	6-2	6-4
175.00	6-6	6-9	7-0	7-3	7-6	7-8	7-11	8-2	8-5	8-7
200.00	8-6	8-10	9-2	9-5	9-9	10-1	10-4	10-8	10-11	11-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.5

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-2	2-2	2-2	2-2	2-3	2-3	2-3	2-4	2-4	2-4
125.00	3-4	3-5	3-5	3-5	3-6	3-6	3-7	3-7	3-7	3-8
150.00	4-10	4-10	4-11	5-0	5-0	5-1	5-1	5-2	5-3	5-3
175.00	6-7	6-8	6-8	6-9	6-10	6-11	7-0	7-0	7-1	7-2
200.00	8-7	8-8	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4
225.00	10-10	11-0	11-1	11-2	11-4	11-5	11-6	11-8	11-9	11-10
250.00	13-5	13-7	13-8	13-10	14-0	14-1	14-3	14-5	14-6	14-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-2	2-2	2-3	2-3	2-3	2-3	2-4	2-4	2-4	2-4
125.00	3-5	3-5	3-6	3-6	3-7	3-7	3-7	3-8	3-8	3-9
150.00	4-11	4-11	5-0	5-1	5-1	5-2	5-2	5-3	5-4	5-4
175.00	6-8	6-9	6-10	6-11	6-11	7-0	7-1	7-2	7-3	7-3
200.00	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6
225.00	11-1	11-2	11-3	11-5	11-6	11-7	11-9	11-10	11-11	12-1
250.00	13-8	13-10	13-11	14-1	14-3	14-4	14-6	14-8	14-9	14-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.6

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-11	4-11	5-0	5-0	5-0	5-0	5-1	5-1	5-1	5-1
175.00	6-8	6-9	6-9	6-10	6-10	6-10	6-11	6-11	6-11	7-0
200.00	8-9	8-10	8-10	8-11	8-11	8-11	9-0	9-0	9-1	9-1
225.00	11-1	11-2	11-2	11-3	11-4	11-4	11-5	11-5	11-6	11-6
250.00	13-9	13-9	13-10	13-11	13-11	14-0	14-1	14-2	14-2	14-3
275.00	16-7	16-8	16-9	16-10	16-11	17-0	17-1	17-1	17-2	17-3
300.00	19-9	19-10	19-11	20-1	20-2	20-3	20-4	20-5	20-6	20-7
325.00	23-3	23-4	23-5	23-7	23-8	23-9	23-10	24-0	24-1	24-2
350.00	27-0	27-1	27-3	27-4	27-6	27-7	27-8	27-10	27-11	28-1
375.00	31-0	31-2	31-3	31-5	31-7	31-8	31-10	32-0	32-1	32-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-0	5-0	5-0	5-0	5-1	5-1	5-1	5-1	5-2	5-2
175.00	6-9	6-9	6-10	6-10	6-11	6-11	6-11	7-0	7-0	7-0
200.00	8-10	8-10	8-11	8-11	9-0	9-0	9-1	9-1	9-2	9-2
225.00	11-2	11-3	11-3	11-4	11-5	11-5	11-6	11-6	11-7	11-8
250.00	13-10	13-11	13-11	14-0	14-1	14-2	14-2	14-3	14-4	14-5
275.00	16-9	16-10	16-11	17-0	17-0	17-1	17-2	17-3	17-4	17-5
300.00	19-11	20-0	20-1	20-2	20-4	20-5	20-6	20-7	20-8	20-9
325.00	23-5	23-6	23-8	23-9	23-10	23-11	24-1	24-2	24-3	24-4
350.00	27-2	27-4	27-5	27-7	27-8	27-10	27-11	28-1	28-2	28-4
375.00	31-3	31-5	31-6	31-8	31-10	32-0	32-1	32-3	32-5	32-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.7

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-11	8-11	8-11	8-11	9-0	9-0	9-0	9-1	9-1	9-1
225.00	11-3	11-3	11-4	11-4	11-4	11-5	11-5	11-5	11-6	11-6
250.00	13-11	13-11	14-0	14-0	14-1	14-1	14-1	14-2	14-2	14-3
275.00	16-10	16-11	16-11	17-0	17-0	17-1	17-1	17-2	17-2	17-3
300.00	20-1	20-1	20-2	20-3	20-3	20-4	20-4	20-5	20-6	20-6
325.00	23-7	23-8	23-8	23-9	23-10	23-10	23-11	24-0	24-1	24-1
350.00	27-5	27-5	27-6	27-7	27-8	27-9	27-9	27-10	27-11	28-0
375.00	31-6	31-7	31-7	31-8	31-9	31-10	31-11	32-0	32-1	32-2
400.00	35-10	35-11	36-0	36-1	36-2	36-4	36-5	36-6	36-7	36-8
425.00	40-6	40-7	40-9	40-10	40-11	41-0	41-2	41-3	41-4	41-5
450.00	45-6	45-7	45-9	45-10	45-11	46-1	46-2	46-4	46-5	46-6
475.00	50-9	50-11	51-0	51-2	51-3	51-5	51-6	51-8	51-9	51-11
500.00	56-4	56-6	56-8	56-9	56-11	57-1	57-2	57-4	57-6	57-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-11	8-11	9-0	9-0	9-0	9-0	9-1	9-1	9-1	9-2
225.00	11-4	11-4	11-4	11-5	11-5	11-5	11-6	11-6	11-6	11-7
250.00	14-0	14-0	14-1	14-1	14-1	14-2	14-2	14-3	14-3	14-3
275.00	16-11	17-0	17-0	17-1	17-1	17-2	17-2	17-3	17-3	17-4
300.00	20-2	20-3	20-3	20-4	20-4	20-5	20-6	20-6	20-7	20-7
325.00	23-8	23-9	23-10	23-10	23-11	24-0	24-0	24-1	24-2	24-3
350.00	27-6	27-7	27-8	27-8	27-9	27-10	27-11	28-0	28-1	28-1
375.00	31-7	31-8	31-9	31-10	31-11	32-0	32-1	32-2	32-3	32-4
400.00	36-0	36-1	36-2	36-3	36-4	36-6	36-7	36-8	36-9	36-10
425.00	40-8	40-10	40-11	41-0	41-1	41-3	41-4	41-5	41-6	41-8
450.00	45-8	45-10	45-11	46-1	46-2	46-3	46-5	46-6	46-8	46-9
475.00	51-0	51-1	51-3	51-5	51-6	51-8	51-9	51-11	52-0	52-2
500.00	56-7	56-9	56-11	57-0	57-2	57-4	57-6	57-7	57-9	57-11

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STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.8

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	14-2	14-2	14-2	14-2	14-3	14-3	14-3	14-3	14-4	14-4
275.00	17-1	17-2	17-2	17-2	17-3	17-3	17-3	17-4	17-4	17-4
300.00	20-5	20-5	20-5	20-6	20-6	20-7	20-7	20-7	20-8	20-8
325.00	23-11	24-0	24-0	24-1	24-1	24-2	24-2	24-3	24-3	24-3
350.00	27-10	27-10	27-11	27-11	28-0	28-0	28-1	28-1	28-2	28-2
375.00	32-0	32-0	32-1	32-1	32-2	32-3	32-3	32-4	32-4	32-5
400.00	36-5	36-6	36-6	36-7	36-8	36-8	36-9	36-10	36-10	36-11
425.00	41-2	41-3	41-4	41-4	41-5	41-6	41-7	41-7	41-8	41-9
450.00	46-3	46-4	46-4	46-5	46-6	46-7	46-8	46-9	46-10	46-10
475.00	51-7	51-8	51-9	51-10	51-11	52-0	52-1	52-2	52-3	52-4
500.00	57-3	57-4	57-5	57-6	57-7	57-8	57-9	57-11	58-0	58-1
525.00	63-3	63-4	63-5	63-6	63-8	63-9	63-10	63-11	64-0	64-1
550.00	69-6	69-8	69-9	69-10	69-11	70-1	70-2	70-3	70-5	70-6
575.00	76-2	76-3	76-4	76-6	76-7	76-9	76-10	77-0	77-1	77-3
600.00	83-1	83-2	83-4	83-5	83-7	83-9	83-10	84-0	84-1	84-3
625.00	90-4	90-5	90-7	90-9	90-11	91-0	91-2	91-4	91-5	91-7

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	14-2	14-2	14-3	14-3	14-3	14-3	14-4	14-4	14-4	14-4
275.00	17-2	17-2	17-3	17-3	17-3	17-4	17-4	17-4	17-5	17-5
300.00	20-5	20-6	20-6	20-6	20-7	20-7	20-8	20-8	20-8	20-9
325.00	24-0	24-1	24-1	24-2	24-2	24-2	24-3	24-3	24-4	24-4
350.00	27-11	27-11	28-0	28-0	28-1	28-1	28-2	28-2	28-3	28-3
375.00	32-1	32-1	32-2	32-2	32-3	32-4	32-4	32-5	32-5	32-6
400.00	36-6	36-7	36-8	36-8	36-9	36-10	36-10	36-11	37-0	37-0
425.00	41-3	41-4	41-5	41-6	41-7	41-7	41-8	41-9	41-10	41-10
450.00	46-4	46-5	46-6	46-7	46-8	46-9	46-10	46-10	46-11	47-0
475.00	51-9	51-10	51-11	52-0	52-1	52-2	52-3	52-4	52-5	52-6
500.00	57-5	57-6	57-7	57-8	57-9	57-10	58-0	58-1	58-2	58-3
525.00	63-5	63-6	63-7	63-8	63-10	63-11	64-0	64-1	64-3	64-4
550.00	69-9	69-10	69-11	70-1	70-2	70-3	70-5	70-6	70-7	70-9
575.00	76-4	76-6	76-7	76-8	76-10	76-11	77-1	77-2	77-4	77-5
600.00	83-3	83-5	83-7	83-8	83-10	84-0	84-1	84-3	84-4	84-6
625.00	90-7	90-8	90-10	91-0	91-2	91-4	91-5	91-7	91-9	91-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.9

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.746	1.57	1391	1.46	1500*
25	0	0	0	1.12	1.35	1034	1.18	1183
30	0	0	0	1.12	1.4	997	1.23	1141
40	0	0	0	1.12	1.5	932	1.32	1065
50	0	0	0	1.12	1.6	875	1.4	997
60	0	0	0	1.12	1.7	825	1.5	937
70	0	0	0	1.12	1.79	782	1.59	884
80	0	0	0	1.12	1.88	744	1.68	836
90	0	0	0	1.12	1.97	710	1.76	794
100	0	0	0	1.12	2.06	680	1.85	757
110	0	0	0	1.12	2.15	653	1.94	723
120	0	0	0	1.12	2.23	629	2.02	693
130	0	0	0	1.12	2.31	607	2.11	666
167	0	0	0	1.12	2.5	563	2.4	586
212	0	0	0	1.12	2.69	522	2.67	527

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.746	6.03	1453	5.84	1500*
25	0	0	0	1.12	5.74	978	5.46	1028
30	0	0	0	1.12	5.81	967	5.53	1016
40	0	0	0	1.12	5.93	947	5.65	994
50	0	0	0	1.12	6.06	928	5.77	973
60	0	0	0	1.12	6.18	909	5.89	954
70	0	0	0	1.12	6.3	892	6.01	935
80	0	0	0	1.12	6.42	876	6.13	917
90	0	0	0	1.12	6.54	860	6.24	900
100	0	0	0	1.12	6.65	845	6.36	884
110	0	0	0	1.12	6.77	831	6.47	869
120	0	0	0	1.12	6.88	818	6.59	854
130	0	0	0	1.12	6.99	805	6.7	840
167	0	0	0	1.12	7.39	762	7.1	793
212	0	0	0	1.12	7.68	733	7.56	745

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.10

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.746	13.42	1476	13.2	1500*
25	0	0	0	1.12	13.11	969	12.8	991
30	0	0	0	1.12	13.18	964	12.87	986
40	0	0	0	1.12	13.31	954	13	977
50	0	0	0	1.12	13.44	945	13.13	967
60	0	0	0	1.12	13.57	936	13.25	958
70	0	0	0	1.12	13.7	927	13.38	949
80	0	0	0	1.12	13.83	919	13.51	940
90	0	0	0	1.12	13.96	911	13.63	932
100	0	0	0	1.12	14.08	903	13.76	924
110	0	0	0	1.12	14.21	895	13.88	915
120	0	0	0	1.12	14.33	887	14	908
130	0	0	0	1.12	14.46	880	14.13	900
167	0	0	0	1.12	14.91	854	14.57	873
212	0	0	0	1.12	15.33	831	15.1	843

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.746	23.84	1486	23.61	1500*
25	0	0	0	1.12	23.52	965	23.21	978
30	0	0	0	1.12	23.59	963	23.27	976
40	0	0	0	1.12	23.73	957	23.4	970
50	0	0	0	1.12	23.86	952	23.54	965
60	0	0	0	1.12	24	947	23.67	960
70	0	0	0	1.12	24.13	942	23.8	955
80	0	0	0	1.12	24.26	937	23.93	950
90	0	0	0	1.12	24.39	932	24.06	945
100	0	0	0	1.12	24.53	927	24.19	940
110	0	0	0	1.12	24.66	922	24.31	935
120	0	0	0	1.12	24.79	918	24.44	930
130	0	0	0	1.12	24.92	913	24.57	925
167	0	0	0	1.12	25.39	896	25.04	909
212	0	0	0	1.12	25.88	880	25.6	889

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.11

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.746	37.42	1491	37.19	1500*
25	0	0	0	1.12	37.1	964	36.78	972
30	0	0	0	1.12	37.17	962	36.85	970
40	0	0	0	1.12	37.31	959	36.98	967
50	0	0	0	1.12	37.45	956	37.11	964
60	0	0	0	1.12	37.58	952	37.25	961
70	0	0	0	1.12	37.72	949	37.38	957
80	0	0	0	1.12	37.85	946	37.51	954
90	0	0	0	1.12	37.99	943	37.64	951
100	0	0	0	1.12	38.12	940	37.77	948
110	0	0	0	1.12	38.26	936	37.9	945
120	0	0	0	1.12	38.39	933	38.03	942
130	0	0	0	1.12	38.52	930	38.16	938
167	0	0	0	1.12	39.01	919	38.64	927
212	0	0	0	1.12	39.54	907	39.22	914

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.12

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1
100.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
125.00	1-9	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-11	3-0
150.00	2-7	2-9	3-0	3-2	3-4	3-7	3-9	4-0	4-2	4-4
175.00	3-6	3-9	4-0	4-4	4-7	4-10	5-2	5-5	5-8	5-11
200.00	4-7	4-11	5-3	5-7	6-0	6-4	6-9	7-1	7-5	7-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2
100.00	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2
125.00	2-0	2-2	2-4	2-6	2-8	2-10	2-11	3-1	3-3	3-4
150.00	2-11	3-2	3-5	3-7	3-10	4-0	4-3	4-5	4-8	4-10
175.00	4-0	4-4	4-7	4-11	5-2	5-6	5-9	6-1	6-4	6-7
200.00	5-3	5-7	6-0	6-5	6-10	7-2	7-7	7-11	8-3	8-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.13

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-5	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-7
125.00	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-5	2-6	2-6
150.00	3-0	3-1	3-2	3-3	3-4	3-5	3-5	3-6	3-7	3-8
175.00	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11
200.00	5-5	5-6	5-8	5-9	5-11	6-0	6-2	6-3	6-4	6-6
225.00	6-10	7-0	7-2	7-4	7-6	7-7	7-9	7-11	8-1	8-2
250.00	8-5	8-8	8-10	9-0	9-3	9-5	9-7	9-9	9-11	10-1

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-5	1-6	1-6	1-7	1-7	1-7	1-8	1-8	1-8
125.00	2-3	2-3	2-4	2-4	2-5	2-6	2-6	2-7	2-7	2-8
150.00	3-2	3-3	3-4	3-5	3-6	3-7	3-7	3-8	3-9	3-10
175.00	4-4	4-5	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-2
200.00	5-8	5-10	5-11	6-1	6-2	6-4	6-5	6-6	6-8	6-9
225.00	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-3	8-5	8-7
250.00	8-11	9-1	9-3	9-6	9-8	9-10	10-0	10-3	10-5	10-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-2	3-3	3-3	3-3	3-4	3-4	3-4	3-5	3-5	3-6
175.00	4-4	4-4	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9
200.00	5-8	5-9	5-9	5-10	5-11	5-11	6-0	6-1	6-1	6-2
225.00	7-2	7-3	7-4	7-5	7-5	7-6	7-7	7-8	7-9	7-10
250.00	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-6	9-7	9-8
275.00	10-8	10-10	10-11	11-0	11-2	11-3	11-4	11-5	11-7	11-8
300.00	12-9	12-10	13-0	13-2	13-3	13-5	13-6	13-8	13-9	13-11
325.00	14-11	15-1	15-3	15-5	15-7	15-9	15-10	16-0	16-2	16-4
350.00	17-4	17-6	17-8	17-11	18-1	18-3	18-5	18-7	18-9	18-11
375.00	19-11	20-2	20-4	20-6	20-9	20-11	21-2	21-4	21-6	21-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-3	3-3	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-7
175.00	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9	4-9	4-10
200.00	5-9	5-10	5-11	6-0	6-0	6-1	6-2	6-2	6-3	6-4
225.00	7-4	7-5	7-6	7-7	7-7	7-8	7-9	7-10	7-11	8-0
250.00	9-1	9-2	9-3	9-4	9-5	9-6	9-7	9-8	9-9	9-10
275.00	10-11	11-1	11-2	11-3	11-5	11-6	11-7	11-9	11-10	11-11
300.00	13-1	13-2	13-4	13-5	13-7	13-8	13-10	13-11	14-1	14-3
325.00	15-4	15-6	15-8	15-9	15-11	16-1	16-3	16-5	16-6	16-8
350.00	17-9	17-11	18-2	18-4	18-6	18-8	18-10	19-0	19-2	19-4
375.00	20-5	20-7	20-10	21-0	21-3	21-5	21-8	21-10	22-1	22-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.15

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-9	5-10	5-10	5-10	5-11	5-11	6-0	6-0	6-0	6-1
225.00	7-4	7-4	7-5	7-5	7-6	7-6	7-7	7-7	7-8	7-8
250.00	9-0	9-1	9-1	9-2	9-3	9-3	9-4	9-4	9-5	9-6
275.00	10-11	11-0	11-0	11-1	11-2	11-3	11-3	11-4	11-5	11-6
300.00	13-0	13-1	13-2	13-3	13-3	13-4	13-5	13-6	13-7	13-8
325.00	15-3	15-4	15-5	15-6	15-7	15-8	15-9	15-10	15-11	16-0
350.00	17-8	17-10	17-11	18-0	18-1	18-2	18-4	18-5	18-6	18-7
375.00	20-4	20-5	20-7	20-8	20-9	20-11	21-0	21-2	21-3	21-4
400.00	23-2	23-3	23-5	23-6	23-8	23-10	23-11	24-1	24-2	24-4
425.00	26-2	26-3	26-5	26-7	26-9	26-11	27-0	27-2	27-4	27-6
450.00	29-4	29-6	29-8	29-10	30-0	30-2	30-4	30-6	30-8	30-10
475.00	32-8	32-11	33-1	33-3	33-5	33-7	33-10	34-0	34-2	34-4
500.00	36-3	36-5	36-8	36-10	37-1	37-3	37-6	37-8	37-11	38-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-10	5-11	5-11	5-11	6-0	6-0	6-1	6-1	6-1	6-2
225.00	7-5	7-5	7-6	7-6	7-7	7-7	7-8	7-8	7-9	7-9
250.00	9-2	9-2	9-3	9-4	9-4	9-5	9-5	9-6	9-7	9-7
275.00	11-1	11-1	11-2	11-3	11-4	11-5	11-5	11-6	11-7	11-7
300.00	13-2	13-3	13-4	13-5	13-6	13-7	13-7	13-8	13-9	13-10
325.00	15-6	15-7	15-8	15-9	15-10	15-11	16-0	16-1	16-2	16-3
350.00	17-11	18-1	18-2	18-3	18-4	18-5	18-7	18-8	18-9	18-10
375.00	20-7	20-9	20-10	21-0	21-1	21-2	21-4	21-5	21-7	21-8
400.00	23-5	23-7	23-9	23-10	24-0	24-2	24-3	24-5	24-6	24-8
425.00	26-6	26-8	26-10	26-11	27-1	27-3	27-5	27-7	27-8	27-10
450.00	29-9	29-11	30-1	30-3	30-5	30-7	30-9	30-11	31-1	31-3
475.00	33-2	33-4	33-6	33-9	33-11	34-1	34-3	34-6	34-8	34-10
500.00	36-9	36-11	37-2	37-5	37-7	37-10	38-0	38-3	38-5	38-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.16

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-2	9-2	9-2	9-3	9-3	9-4	9-4	9-4	9-5	9-5
275.00	11-1	11-1	11-2	11-2	11-3	11-3	11-3	11-4	11-4	11-5
300.00	13-2	13-2	13-3	13-4	13-4	13-5	13-5	13-6	13-6	13-7
325.00	15-5	15-6	15-7	15-7	15-8	15-9	15-9	15-10	15-11	15-11
350.00	17-11	18-0	18-1	18-1	18-2	18-3	18-4	18-4	18-5	18-6
375.00	20-7	20-8	20-9	20-10	20-11	20-11	21-0	21-1	21-2	21-3
400.00	23-5	23-6	23-7	23-8	23-9	23-10	23-11	24-0	24-1	24-2
425.00	26-6	26-7	26-8	26-9	26-10	26-11	27-1	27-2	27-3	27-4
450.00	29-8	29-10	29-11	30-0	30-2	30-3	30-4	30-5	30-7	30-8
475.00	33-1	33-3	33-4	33-6	33-7	33-9	33-10	33-11	34-1	34-2
500.00	36-9	36-10	37-0	37-1	37-3	37-5	37-6	37-8	37-9	37-11
525.00	40-6	40-8	40-10	40-11	41-1	41-3	41-5	41-6	41-8	41-10
550.00	44-6	44-8	44-10	45-0	45-2	45-4	45-5	45-7	45-9	45-11
575.00	48-8	48-10	49-0	49-2	49-4	49-7	49-9	49-11	50-1	50-3
600.00	53-0	53-3	53-5	53-7	53-10	54-0	54-2	54-5	54-7	54-9
625.00	57-7	57-10	58-0	58-3	58-5	58-8	58-10	59-1	59-3	59-6

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9- 3	9- 3	9- 3	9- 4	9- 4	9- 5	9- 5	9- 5	9- 6	9- 6
275.00	11- 2	11- 2	11- 3	11- 3	11- 4	11- 4	11- 5	11- 5	11- 6	11- 6
300.00	13- 3	13- 4	13- 4	13- 5	13- 6	13- 6	13- 7	13- 7	13- 8	13- 8
325.00	15- 7	15- 8	15- 8	15- 9	15-10	15-10	15-11	16- 0	16- 0	16- 1
350.00	18- 1	18- 2	18- 3	18- 3	18- 4	18- 5	18- 6	18- 7	18- 7	18- 8
375.00	20- 9	20-10	20-11	21- 0	21- 1	21- 2	21- 3	21- 4	21- 4	21- 5
400.00	23- 8	23- 9	23-10	23-11	24- 0	24- 1	24- 2	24- 3	24- 4	24- 5
425.00	26- 8	26-10	26-11	27- 0	27- 1	27- 2	27- 3	27- 5	27- 6	27- 7
450.00	29-11	30- 1	30- 2	30- 3	30- 5	30- 6	30- 7	30- 9	30-10	30-11
475.00	33- 5	33- 6	33- 8	33- 9	33-11	34- 0	34- 2	34- 3	34- 5	34- 6
500.00	37- 0	37- 2	37- 4	37- 5	37- 7	37- 9	37-10	38- 0	38- 1	38- 3
525.00	40-10	41- 0	41- 2	41- 4	41- 6	41- 7	41- 9	41-11	42- 1	42- 3
550.00	44-11	45- 1	45- 3	45- 5	45- 7	45- 9	45-10	46- 0	46- 2	46- 4
575.00	49- 1	49- 3	49- 6	49- 8	49-10	50- 0	50- 2	50- 4	50- 6	50- 9
600.00	53- 6	53- 8	53-11	54- 1	54- 4	54- 6	54- 8	54-11	55- 1	55- 3
625.00	58- 1	58- 4	58- 6	58- 9	59- 0	59- 2	59- 5	59- 7	59-10	60- 0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.17

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.746	1.21	1808	1.09	2000*
25	0	0	0	1.12	0.94	1487	0.79	1764
30	0	0	0	1.12	0.99	1420	0.82	1702
40	0	0	0	1.12	1.08	1299	0.89	1581
50	0	0	0	1.12	1.17	1193	0.95	1467
60	0	0	0	1.12	1.27	1100	1.03	1360
70	0	0	0	1.12	1.37	1020	1.11	1262
80	0	0	0	1.12	1.47	952	1.19	1173
90	0	0	0	1.12	1.57	892	1.28	1092
100	0	0	0	1.12	1.67	840	1.37	1021
110	0	0	0	1.12	1.76	795	1.46	957
120	0	0	0	1.12	1.86	756	1.56	901
130	0	0	0	1.12	1.95	721	1.65	851
167	0	0	0	1.12	2.15	651	1.97	711
212	0	0	0	1.12	2.36	594	2.32	604

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.746	4.62	1894	4.37	2000*
25	0	0	0	1.12	4.17	1344	3.78	1484
30	0	0	0	1.12	4.25	1320	3.85	1457
40	0	0	0	1.12	4.4	1275	3.99	1407
50	0	0	0	1.12	4.55	1234	4.13	1359
60	0	0	0	1.12	4.7	1195	4.27	1315
70	0	0	0	1.12	4.84	1160	4.4	1274
80	0	0	0	1.12	4.98	1127	4.54	1235
90	0	0	0	1.12	5.12	1096	4.68	1200
100	0	0	0	1.12	5.26	1068	4.81	1166
110	0	0	0	1.12	5.39	1041	4.95	1135
120	0	0	0	1.12	5.53	1017	5.08	1105
130	0	0	0	1.12	5.66	993	5.21	1078
167	0	0	0	1.12	6.12	918	5.68	989
212	0	0	0	1.12	6.5	865	6.22	904

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.18

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.746	10.18	1940	9.87	2000*
25	0	0	0	1.12	9.66	1309	9.18	1378
30	0	0	0	1.12	9.75	1298	9.26	1366
40	0	0	0	1.12	9.92	1276	9.42	1343
50	0	0	0	1.12	10.08	1255	9.58	1320
60	0	0	0	1.12	10.25	1235	9.74	1299
70	0	0	0	1.12	10.41	1216	9.9	1278
80	0	0	0	1.12	10.57	1198	10.06	1258
90	0	0	0	1.12	10.73	1180	10.21	1239
100	0	0	0	1.12	10.89	1163	10.37	1221
110	0	0	0	1.12	11.04	1147	10.52	1203
120	0	0	0	1.12	11.2	1132	10.67	1186
130	0	0	0	1.12	11.35	1117	10.82	1170
167	0	0	0	1.12	11.9	1066	11.37	1114
212	0	0	0	1.12	12.5	1015	12.01	1056

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.746	17.94	1963	17.6	2000*
25	0	0	0	1.12	17.4	1297	16.88	1337
30	0	0	0	1.12	17.49	1291	16.96	1330
40	0	0	0	1.12	17.67	1278	17.13	1317
50	0	0	0	1.12	17.84	1266	17.3	1304
60	0	0	0	1.12	18.01	1254	17.47	1292
70	0	0	0	1.12	18.18	1242	17.64	1280
80	0	0	0	1.12	18.35	1231	17.8	1268
90	0	0	0	1.12	18.52	1220	17.97	1257
100	0	0	0	1.12	18.69	1209	18.13	1246
110	0	0	0	1.12	18.86	1198	18.29	1235
120	0	0	0	1.12	19.02	1188	18.46	1224
130	0	0	0	1.12	19.19	1178	18.62	1214
167	0	0	0	1.12	19.78	1143	19.21	1177
212	0	0	0	1.12	20.49	1105	19.91	1136

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.19

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.746	27.98	1975	27.62	2000*
25	0	0	0	1.12	27.43	1292	26.88	1317
30	0	0	0	1.12	27.52	1287	26.97	1313
40	0	0	0	1.12	27.69	1279	27.14	1305
50	0	0	0	1.12	27.87	1271	27.32	1297
60	0	0	0	1.12	28.05	1264	27.49	1289
70	0	0	0	1.12	28.23	1256	27.66	1281
80	0	0	0	1.12	28.4	1248	27.83	1273
90	0	0	0	1.12	28.58	1241	28	1266
100	0	0	0	1.12	28.75	1234	28.17	1258
110	0	0	0	1.12	28.92	1226	28.34	1251
120	0	0	0	1.12	29.09	1219	28.5	1244
130	0	0	0	1.12	29.26	1212	28.67	1237
167	0	0	0	1.12	29.89	1188	29.29	1212
212	0	0	0	1.12	30.63	1160	30.02	1183

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.20

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10
100.00	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-6
125.00	1-2	1-3	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-3
150.00	1-9	1-10	2-0	2-2	2-4	2-6	2-8	2-11	3-1	3-4
175.00	2-4	2-6	2-9	2-11	3-2	3-5	3-8	3-11	4-2	4-6
200.00	3-1	3-4	3-7	3-10	4-1	4-5	4-9	5-2	5-6	5-10

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0
100.00	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8	1-9
125.00	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-5	2-7	2-9
150.00	2-0	2-3	2-5	2-8	2-10	3-1	3-4	3-6	3-9	4-0
175.00	2-9	3-0	3-4	3-7	3-11	4-2	4-6	4-10	5-1	5-5
200.00	3-7	3-11	4-4	4-8	5-1	5-6	5-11	6-3	6-8	7-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.21

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	1-0	1-0	1-0	1-1	1-1	1-2	1-2	1-2	1-3
125.00	1-5	1-6	1-7	1-7	1-8	1-9	1-9	1-10	1-11	1-11
150.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9
175.00	2-10	2-11	3-1	3-2	3-3	3-4	3-6	3-7	3-8	3-9
200.00	3-9	3-10	4-0	4-2	4-3	4-5	4-7	4-8	4-10	4-11
225.00	4-8	4-10	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3
250.00	5-10	6-0	6-3	6-5	6-8	6-11	7-1	7-4	7-6	7-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-3	1-4	1-4
125.00	1-7	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-1	2-1
150.00	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0
175.00	3-2	3-3	3-4	3-6	3-7	3-8	3-10	3-11	4-0	4-2
200.00	4-1	4-3	4-5	4-7	4-8	4-10	5-0	5-1	5-3	5-5
225.00	5-2	5-5	5-7	5-9	5-11	6-2	6-4	6-6	6-8	6-10
250.00	6-5	6-8	6-11	7-1	7-4	7-7	7-9	8-0	8-3	8-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.22

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-8
175.00	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-6	3-6	3-7
200.00	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-6	4-7	4-8
225.00	5-1	5-2	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11
250.00	6-4	6-5	6-6	6-8	6-9	6-10	7-0	7-1	7-2	7-4
275.00	7-8	7-9	7-11	8-1	8-2	8-4	8-5	8-7	8-9	8-10
300.00	9-1	9-3	9-5	9-7	9-9	9-11	10-1	10-3	10-4	10-6
325.00	10-8	10-10	11-1	11-3	11-5	11-7	11-10	12-0	12-2	12-4
350.00	12-5	12-7	12-10	13-1	13-3	13-6	13-8	13-11	14-1	14-4
375.00	14-3	14-6	14-9	15-0	15-3	15-6	15-9	16-0	16-3	16-5

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-5	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-9	2-9
175.00	3-3	3-4	3-4	3-5	3-6	3-6	3-7	3-8	3-8	3-9
200.00	4-3	4-4	4-5	4-6	4-7	4-7	4-8	4-9	4-10	4-11
225.00	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2
250.00	6-8	6-9	6-11	7-0	7-1	7-3	7-4	7-5	7-7	7-8
275.00	8-1	8-2	8-4	8-6	8-7	8-9	8-11	9-0	9-2	9-3
300.00	9-7	9-9	9-11	10-1	10-3	10-5	10-7	10-9	10-11	11-1
325.00	11-3	11-5	11-8	11-10	12-0	12-3	12-5	12-7	12-9	13-0
350.00	13-1	13-3	13-6	13-9	13-11	14-2	14-5	14-7	14-10	15-0
375.00	15-0	15-3	15-6	15-9	16-0	16-3	16-6	16-9	17-0	17-3

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STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.23

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-2	4-3	4-3	4-4	4-4	4-5	4-5	4-6	4-6	4-7
225.00	5-4	5-4	5-5	5-6	5-6	5-7	5-7	5-8	5-9	5-9
250.00	6-7	6-7	6-8	6-9	6-10	6-11	6-11	7-0	7-1	7-2
275.00	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8
300.00	9-5	9-6	9-8	9-9	9-10	9-11	10-0	10-1	10-2	10-3
325.00	11-1	11-2	11-4	11-5	11-6	11-8	11-9	11-10	12-0	12-1
350.00	12-10	13-0	13-1	13-3	13-4	13-6	13-7	13-9	13-10	14-0
375.00	14-9	14-11	15-1	15-2	15-4	15-6	15-8	15-9	15-11	16-1
400.00	16-9	17-0	17-2	17-4	17-6	17-8	17-10	18-0	18-2	18-4
425.00	19-0	19-2	19-4	19-6	19-9	19-11	20-1	20-3	20-6	20-8
450.00	21-3	21-6	21-8	21-11	22-1	22-4	22-7	22-9	23-0	23-2
475.00	23-8	23-11	24-2	24-5	24-8	24-11	25-2	25-4	25-7	25-10
500.00	26-3	26-6	26-10	27-1	27-4	27-7	27-10	28-1	28-4	28-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8
225.00	5-6	5-6	5-7	5-8	5-8	5-9	5-10	5-10	5-11	5-11
250.00	6-9	6-10	6-11	6-11	7-0	7-1	7-2	7-3	7-3	7-4
275.00	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-11
300.00	9-9	9-10	9-11	10-0	10-1	10-3	10-4	10-5	10-6	10-7
325.00	11-5	11-6	11-8	11-9	11-11	12-0	12-1	12-3	12-4	12-5
350.00	13-3	13-5	13-6	13-8	13-9	13-11	14-1	14-2	14-4	14-5
375.00	15-3	15-4	15-6	15-8	15-10	16-0	16-2	16-3	16-5	16-7
400.00	17-4	17-6	17-8	17-10	18-0	18-2	18-4	18-6	18-8	18-10
425.00	19-7	19-9	19-11	20-2	20-4	20-6	20-9	20-11	21-1	21-4
450.00	21-11	22-2	22-4	22-7	22-10	23-0	23-3	23-6	23-8	23-11
475.00	24-5	24-8	24-11	25-2	25-5	25-8	25-11	26-2	26-5	26-7
500.00	27-1	27-4	27-8	27-11	28-2	28-5	28-9	29-0	29-3	29-6

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STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.24

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-8	6-9	6-9	6-10	6-10	6-11	6-11	7-0	7-0	7-1
275.00	8-1	8-2	8-2	8-3	8-4	8-4	8-5	8-5	8-6	8-7
300.00	9-7	9-8	9-9	9-10	9-10	9-11	10-0	10-1	10-1	10-2
325.00	11-4	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-10	11-11
350.00	13-1	13-2	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-10
375.00	15-1	15-2	15-3	15-4	15-5	15-6	15-8	15-9	15-10	15-11
400.00	17-2	17-3	17-4	17-5	17-7	17-8	17-9	17-11	18-0	18-1
425.00	19-4	19-6	19-7	19-9	19-10	20-0	20-1	20-2	20-4	20-5
450.00	21-8	21-10	22-0	22-1	22-3	22-5	22-6	22-8	22-10	22-11
475.00	24-2	24-4	24-6	24-8	24-10	24-11	25-1	25-3	25-5	25-7
500.00	26-10	27-0	27-2	27-4	27-6	27-8	27-10	28-0	28-2	28-4
525.00	29-7	29-9	29-11	30-2	30-4	30-6	30-8	30-11	31-1	31-3
550.00	32-5	32-8	32-10	33-1	33-3	33-6	33-8	33-11	34-1	34-4
575.00	35-6	35-9	35-11	36-2	36-5	36-8	36-10	37-1	37-4	37-6
600.00	38-8	38-11	39-2	39-5	39-8	39-11	40-2	40-5	40-8	40-11
625.00	41-11	42-3	42-6	42-9	43-1	43-4	43-7	43-10	44-1	44-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-10	6-10	6-11	6-11	7-0	7-0	7-1	7-1	7-2	7-2
275.00	8-3	8-4	8-4	8-5	8-6	8-6	8-7	8-7	8-8	8-9
300.00	9-10	9-11	9-11	10-0	10-1	10-2	10-2	10-3	10-4	10-5
325.00	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-1	12-2
350.00	13-4	13-5	13-7	13-8	13-9	13-10	13-11	14-0	14-1	14-2
375.00	15-4	15-5	15-7	15-8	15-9	15-10	15-11	16-1	16-2	16-3
400.00	17-6	17-7	17-8	17-10	17-11	18-0	18-2	18-3	18-4	18-6
425.00	19-9	19-10	20-0	20-1	20-3	20-4	20-6	20-7	20-9	20-10
450.00	22-2	22-3	22-5	22-7	22-8	22-10	23-0	23-2	23-3	23-5
475.00	24-8	24-10	25-0	25-2	25-4	25-6	25-7	25-9	25-11	26-1
500.00	27-4	27-6	27-8	27-10	28-1	28-3	28-5	28-7	28-9	28-11
525.00	30-2	30-4	30-7	30-9	30-11	31-2	31-4	31-6	31-9	31-11
550.00	33-1	33-4	33-6	33-9	34-0	34-2	34-5	34-7	34-10	35-0
575.00	36-2	36-5	36-8	36-11	37-2	37-5	37-7	37-10	38-1	38-4
600.00	39-5	39-8	39-11	40-3	40-6	40-9	41-0	41-3	41-6	41-9
625.00	42-10	43-1	43-4	43-8	43-11	44-2	44-6	44-9	45-0	45-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.25

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	3.074	3.89	994	3.87	1000*
0	0	0	0	1.12	3.75	376	3.69	382
30	0	0	0	1.12	3.9	361	3.84	367
40	0	0	0	1.12	3.95	356	3.89	362
50	0	0	0	1.12	4	352	3.94	357
60	0	0	0	1.12	4.05	348	3.99	353
70	0	0	0	1.12	4.1	344	4.04	349
80	0	0	0	1.12	4.15	340	4.09	345
90	0	0	0	1.12	4.2	336	4.14	341
100	0	0	0	1.12	4.25	332	4.18	337
110	0	0	0	1.12	4.28	329	4.23	333
120	0	0	0	1.12	4.31	327	4.28	330
130	0	0	0	1.12	4.34	325	4.32	326
167	0	0	0	1.12	4.45	317	4.44	318
212	0	0	0	1.12	4.58	308	4.57	309

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	3.074	15.78	998	15.75	1000*
0	0	0	0	1.12	15.63	367	15.58	368
30	0	0	0	1.12	15.79	363	15.73	365
40	0	0	0	1.12	15.84	362	15.78	364
50	0	0	0	1.12	15.9	361	15.83	363
60	0	0	0	1.12	15.95	360	15.88	361
70	0	0	0	1.12	16	359	15.93	360
80	0	0	0	1.12	16.05	358	15.98	359
90	0	0	0	1.12	16.1	357	16.03	358
100	0	0	0	1.12	16.15	356	16.09	357
110	0	0	0	1.12	16.2	355	16.14	356
120	0	0	0	1.12	16.24	354	16.19	355
130	0	0	0	1.12	16.27	353	16.24	354
167	0	0	0	1.12	16.39	351	16.38	351
212	0	0	0	1.12	16.54	348	16.53	348

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.26

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	3.074	36.69	999	36.66	1000*
0	0	0	0	1.12	36.54	365	36.48	366
30	0	0	0	1.12	36.7	364	36.64	365
40	0	0	0	1.12	36.75	364	36.69	364
50	0	0	0	1.12	36.8	363	36.74	364
60	0	0	0	1.12	36.86	363	36.79	363
70	0	0	0	1.12	36.91	362	36.84	363
80	0	0	0	1.12	36.96	362	36.89	362
90	0	0	0	1.12	37.01	361	36.94	362
100	0	0	0	1.12	37.06	361	36.99	361
110	0	0	0	1.12	37.12	360	37.05	361
120	0	0	0	1.12	37.15	360	37.1	361
130	0	0	0	1.12	37.18	360	37.15	360
167	0	0	0	1.12	37.31	359	37.3	359
212	0	0	0	1.12	37.46	357	37.45	357

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	3.074	68.86	1000	68.83	1000*
0	0	0	0	1.12	68.71	365	68.66	365
30	0	0	0	1.12	68.87	364	68.81	364
40	0	0	0	1.12	68.92	364	68.86	364
50	0	0	0	1.12	68.97	364	68.91	364
60	0	0	0	1.12	69.03	364	68.96	364
70	0	0	0	1.12	69.08	363	69.01	364
80	0	0	0	1.12	69.13	363	69.06	363
90	0	0	0	1.12	69.18	363	69.11	363
100	0	0	0	1.12	69.23	363	69.16	363
110	0	0	0	1.12	69.29	362	69.21	363
120	0	0	0	1.12	69.32	362	69.27	363
130	0	0	0	1.12	69.35	362	69.32	362
167	0	0	0	1.12	69.48	362	69.47	362
212	0	0	0	1.12	69.64	361	69.63	361

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.27

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-2	2-2	2-2	2-3	2-3	2-3	2-4	2-4	2-4	2-5
100.00	3-9	3-10	3-11	3-11	4-0	4-0	4-1	4-2	4-2	4-3
125.00	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-7
150.00	8-7	8-8	8-9	8-11	9-0	9-1	9-3	9-4	9-5	9-7
175.00	11-8	11-10	12-0	12-2	12-3	12-5	12-7	12-9	12-10	13-0
200.00	15-3	15-6	15-8	15-10	16-1	16-3	16-6	16-8	16-10	17-0

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-2	2-2	2-3	2-3	2-3	2-4	2-4	2-4	2-5	2-5
100.00	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-2	4-3	4-3
125.00	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-8
150.00	8-8	8-10	8-11	9-0	9-2	9-3	9-4	9-6	9-7	9-8
175.00	11-10	12-0	12-2	12-4	12-6	12-7	12-9	12-11	13-1	13-2
200.00	15-6	15-8	15-11	16-1	16-4	16-6	16-9	16-11	17-1	17-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.28

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-11	3-11	3-11	3-11	3-11	4-0	4-0	4-0	4-0	4-0
125.00	6-1	6-1	6-2	6-2	6-2	6-2	6-3	6-3	6-3	6-3
150.00	8-9	8-10	8-10	8-10	8-11	8-11	9-0	9-0	9-0	9-1
175.00	12-0	12-0	12-1	12-1	12-2	12-2	12-3	12-3	12-3	12-4
200.00	15-8	15-9	15-9	15-10	15-11	15-11	16-0	16-0	16-1	16-2
225.00	19-11	19-11	20-0	20-1	20-2	20-3	20-3	20-4	20-5	20-6
250.00	24-7	24-8	24-9	24-10	24-11	25-0	25-1	25-2	25-3	25-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-11	3-11	3-11	3-11	4-0	4-0	4-0	4-0	4-0	4-0
125.00	6-1	6-2	6-2	6-2	6-2	6-3	6-3	6-3	6-3	6-4
150.00	8-10	8-10	8-11	8-11	8-11	9-0	9-0	9-0	9-1	9-1
175.00	12-0	12-1	12-1	12-2	12-2	12-3	12-3	12-4	12-4	12-5
200.00	15-9	15-10	15-10	15-11	15-11	16-0	16-1	16-1	16-2	16-2
225.00	20-0	20-0	20-1	20-2	20-3	20-4	20-4	20-5	20-6	20-7
250.00	24-8	24-9	24-10	24-11	25-0	25-1	25-2	25-3	25-4	25-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.29

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	9-0	9-0	9-0	9-1	9-1	9-1	9-1	9-1	9-1	9-2
175.00	12-4	12-4	12-4	12-4	12-4	12-5	12-5	12-5	12-5	12-5
200.00	16-1	16-1	16-2	16-2	16-2	16-2	16-3	16-3	16-3	16-3
225.00	20-5	20-5	20-6	20-6	20-6	20-7	20-7	20-7	20-8	20-8
250.00	25-3	25-4	25-4	25-4	25-5	25-5	25-6	25-6	25-6	25-7
275.00	30-8	30-8	30-9	30-9	30-10	30-10	30-11	30-11	31-0	31-0
300.00	36-7	36-8	36-8	36-9	36-9	36-10	36-11	36-11	37-0	37-1
325.00	43-1	43-2	43-2	43-3	43-4	43-5	43-5	43-6	43-7	43-7
350.00	50-2	50-3	50-3	50-4	50-5	50-6	50-7	50-8	50-9	50-9
375.00	57-9	57-10	57-11	58-0	58-1	58-2	58-3	58-4	58-5	58-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	9-0	9-1	9-1	9-1	9-1	9-1	9-1	9-1	9-2	9-2
175.00	12-4	12-4	12-4	12-4	12-5	12-5	12-5	12-5	12-5	12-6
200.00	16-1	16-2	16-2	16-2	16-2	16-3	16-3	16-3	16-4	16-4
225.00	20-5	20-6	20-6	20-6	20-7	20-7	20-7	20-8	20-8	20-8
250.00	25-4	25-4	25-4	25-5	25-5	25-6	25-6	25-7	25-7	25-7
275.00	30-8	30-9	30-9	30-10	30-10	30-11	31-0	31-0	31-1	31-1
300.00	36-8	36-8	36-9	36-10	36-10	36-11	37-0	37-0	37-1	37-1
325.00	43-2	43-3	43-3	43-4	43-5	43-6	43-6	43-7	43-8	43-8
350.00	50-3	50-4	50-4	50-5	50-6	50-7	50-8	50-9	50-10	50-11
375.00	57-11	58-0	58-1	58-2	58-3	58-4	58-5	58-6	58-7	58-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.30

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	16-9	16-9	16-9	16-9	16-9	16-9	16-10	16-10	16-10	16-10
225.00	21-3	21-3	21-3	21-3	21-3	21-4	21-4	21-4	21-4	21-4
250.00	26-3	26-3	26-4	26-4	26-4	26-4	26-5	26-5	26-5	26-5
275.00	31-11	31-11	31-11	31-11	32-0	32-0	32-0	32-0	32-1	32-1
300.00	38-1	38-1	38-1	38-2	38-2	38-2	38-3	38-3	38-3	38-4
325.00	44-10	44-10	44-11	44-11	45-0	45-0	45-0	45-1	45-1	45-1
350.00	52-2	52-3	52-3	52-4	52-4	52-5	52-5	52-6	52-6	52-6
375.00	60-2	60-3	60-3	60-4	60-4	60-5	60-5	60-6	60-6	60-7
400.00	68-9	68-10	68-10	68-11	69-0	69-0	69-1	69-1	69-2	69-3
425.00	78-0	78-1	78-1	78-2	78-3	78-3	78-4	78-5	78-5	78-6
450.00	87-10	87-11	88-0	88-1	88-2	88-2	88-3	88-4	88-5	88-6
475.00	98-5	98-6	98-7	98-8	98-9	98-9	98-10	98-11	99-0	99-1
500.00	109-8	109-9	109-10	109-11	110-0	110-1	110-2	110-3	110-4	110-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	16-9	16-9	16-9	16-9	16-9	16-10	16-10	16-10	16-10	16-10
225.00	21-3	21-3	21-3	21-3	21-4	21-4	21-4	21-4	21-4	21-5
250.00	26-3	26-4	26-4	26-4	26-4	26-5	26-5	26-5	26-5	26-6
275.00	31-11	31-11	31-11	32-0	32-0	32-0	32-1	32-1	32-1	32-1
300.00	38-1	38-2	38-2	38-2	38-3	38-3	38-3	38-4	38-4	38-4
325.00	44-10	44-11	44-11	45-0	45-0	45-0	45-1	45-1	45-2	45-2
350.00	52-3	52-3	52-4	52-4	52-5	52-5	52-6	52-6	52-7	52-7
375.00	60-3	60-3	60-4	60-4	60-5	60-5	60-6	60-6	60-7	60-7
400.00	68-10	68-10	68-11	69-0	69-0	69-1	69-2	69-2	69-3	69-3
425.00	78-1	78-1	78-2	78-3	78-4	78-4	78-5	78-6	78-6	78-7
450.00	87-11	88-0	88-1	88-2	88-3	88-3	88-4	88-5	88-6	88-7
475.00	98-6	98-7	98-8	98-9	98-10	98-11	99-0	99-0	99-1	99-2
500.00	109-9	109-10	109-11	110-0	110-1	110-2	110-3	110-4	110-5	110-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.31

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	3.074	2.59	1487	2.57	1500*
0	0	0	0	1.12	2.27	617	2.17	648
30	0	0	0	1.12	2.51	560	2.4	585
40	0	0	0	1.12	2.58	544	2.47	568
50	0	0	0	1.12	2.65	529	2.54	552
60	0	0	0	1.12	2.72	515	2.61	537
70	0	0	0	1.12	2.79	503	2.68	523
80	0	0	0	1.12	2.86	491	2.75	510
90	0	0	0	1.12	2.93	480	2.82	498
100	0	0	0	1.12	2.99	469	2.88	487
110	0	0	0	1.12	3.06	459	2.95	476
120	0	0	0	1.12	3.12	450	3.01	466
130	0	0	0	1.12	3.16	444	3.07	457
167	0	0	0	1.12	3.3	426	3.29	427
212	0	0	0	1.12	3.47	406	3.46	407

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	3.074	10.39	1496	10.36	1500*
0	0	0	0	1.12	10.06	562	9.95	569
30	0	0	0	1.12	10.3	550	10.18	556
40	0	0	0	1.12	10.37	546	10.25	552
50	0	0	0	1.12	10.45	542	10.33	548
60	0	0	0	1.12	10.53	538	10.41	544
70	0	0	0	1.12	10.6	534	10.48	540
80	0	0	0	1.12	10.68	530	10.56	536
90	0	0	0	1.12	10.76	527	10.63	533
100	0	0	0	1.12	10.83	523	10.7	529
110	0	0	0	1.12	10.9	520	10.78	526
120	0	0	0	1.12	10.98	516	10.85	522
130	0	0	0	1.12	11.05	513	10.92	519
167	0	0	0	1.12	11.24	505	11.19	507
212	0	0	0	1.12	11.45	496	11.43	496

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.32

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	3.074	23.66	1498	23.63	1500*
0	0	0	0	1.12	23.33	553	23.22	556
30	0	0	0	1.12	23.57	548	23.45	550
40	0	0	0	1.12	23.65	546	23.53	549
50	0	0	0	1.12	23.73	544	23.6	547
60	0	0	0	1.12	23.8	543	23.68	545
70	0	0	0	1.12	23.88	541	23.75	544
80	0	0	0	1.12	23.96	539	23.83	542
90	0	0	0	1.12	24.04	538	23.91	540
100	0	0	0	1.12	24.11	536	23.98	539
110	0	0	0	1.12	24.19	534	24.06	537
120	0	0	0	1.12	24.27	533	24.13	536
130	0	0	0	1.12	24.34	531	24.21	534
167	0	0	0	1.12	24.55	527	24.49	528
212	0	0	0	1.12	24.77	523	24.76	523

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	3.074	42.91	1499	42.88	1500*
0	0	0	0	1.12	42.59	550	42.47	551
30	0	0	0	1.12	42.82	547	42.7	549
40	0	0	0	1.12	42.9	546	42.78	548
50	0	0	0	1.12	42.98	545	42.85	547
60	0	0	0	1.12	43.06	544	42.93	546
70	0	0	0	1.12	43.13	544	43.01	545
80	0	0	0	1.12	43.21	543	43.08	544
90	0	0	0	1.12	43.29	542	43.16	543
100	0	0	0	1.12	43.37	541	43.24	542
110	0	0	0	1.12	43.45	540	43.31	542
120	0	0	0	1.12	43.52	539	43.39	541
130	0	0	0	1.12	43.6	538	43.46	540
167	0	0	0	1.12	43.82	536	43.74	537
212	0	0	0	1.12	44.05	533	44.03	533

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.33

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	3.074	68.98	1499	68.95	1500*
0	0	0	0	1.12	68.65	548	68.54	549
30	0	0	0	1.12	68.89	547	68.77	548
40	0	0	0	1.12	68.97	546	68.84	547
50	0	0	0	1.12	69.04	546	68.92	547
60	0	0	0	1.12	69.12	545	69	546
70	0	0	0	1.12	69.2	545	69.07	546
80	0	0	0	1.12	69.28	544	69.15	545
90	0	0	0	1.12	69.36	544	69.23	545
100	0	0	0	1.12	69.43	543	69.3	544
110	0	0	0	1.12	69.51	543	69.38	544
120	0	0	0	1.12	69.59	542	69.45	543
130	0	0	0	1.12	69.67	542	69.53	543
167	0	0	0	1.12	69.89	540	69.81	541
212	0	0	0	1.12	70.12	539	70.1	539

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.34

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-7	1-8
100.00	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10	2-11	2-11
125.00	3-8	3-9	3-10	4-0	4-1	4-2	4-4	4-5	4-6	4-7
150.00	5-3	5-5	5-7	5-9	5-11	6-1	6-2	6-4	6-6	6-8
175.00	7-1	7-4	7-7	7-10	8-0	8-3	8-5	8-8	8-10	9-1
200.00	9-4	9-7	9-11	10-2	10-6	10-9	11-0	11-4	11-7	11-10

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-8	1-8	1-9
100.00	2-5	2-6	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-1
125.00	3-10	3-11	4-0	4-2	4-3	4-4	4-6	4-7	4-8	4-9
150.00	5-6	5-8	5-10	6-0	6-2	6-4	6-5	6-7	6-9	6-11
175.00	7-5	7-8	7-11	8-2	8-4	8-7	8-9	9-0	9-2	9-5
200.00	9-9	10-1	10-4	10-8	10-11	11-3	11-6	11-9	12-0	12-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.35

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-6	2-6	2-7	2-7	2-7	2-7	2-8	2-8	2-8	2-8
125.00	3-11	4-0	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-2
150.00	5-8	5-9	5-9	5-10	5-10	5-11	5-11	6-0	6-0	6-1
175.00	7-9	7-9	7-10	7-11	8-0	8-0	8-1	8-2	8-2	8-3
200.00	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-8	10-9
225.00	12-10	12-11	13-0	13-1	13-2	13-3	13-4	13-6	13-7	13-8
250.00	15-10	15-11	16-1	16-2	16-3	16-5	16-6	16-8	16-9	16-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-7	2-7	2-7	2-7	2-7	2-8	2-8	2-8	2-8	2-9
125.00	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-2	4-3	4-3
150.00	5-9	5-9	5-10	5-10	5-11	5-11	6-0	6-0	6-1	6-1
175.00	7-10	7-11	7-11	8-0	8-1	8-1	8-2	8-3	8-3	8-4
200.00	10-3	10-4	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-11
225.00	12-11	13-1	13-2	13-3	13-4	13-5	13-6	13-8	13-9	13-10
250.00	16-0	16-1	16-3	16-4	16-6	16-7	16-9	16-10	17-0	17-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.36

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-10	5-10	5-10	5-10	5-11	5-11	5-11	5-11	5-11	6-0
175.00	7-11	7-11	8-0	8-0	8-0	8-0	8-1	8-1	8-1	8-2
200.00	10-4	10-5	10-5	10-5	10-6	10-6	10-7	10-7	10-7	10-8
225.00	13-1	13-2	13-2	13-3	13-3	13-4	13-4	13-5	13-5	13-6
250.00	16-2	16-3	16-4	16-4	16-5	16-5	16-6	16-7	16-7	16-8
275.00	19-7	19-8	19-9	19-10	19-10	19-11	20-0	20-1	20-2	20-2
300.00	23-4	23-5	23-6	23-7	23-8	23-9	23-10	23-11	24-0	24-1
325.00	27-6	27-7	27-8	27-9	27-10	27-11	28-0	28-1	28-2	28-3
350.00	31-11	32-0	32-1	32-3	32-4	32-5	32-6	32-8	32-9	32-10
375.00	36-8	36-10	36-11	37-1	37-2	37-3	37-5	37-6	37-8	37-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-10	5-10	5-11	5-11	5-11	5-11	5-11	6-0	6-0	6-0
175.00	7-11	8-0	8-0	8-0	8-1	8-1	8-1	8-2	8-2	8-2
200.00	10-5	10-5	10-6	10-6	10-6	10-7	10-7	10-8	10-8	10-8
225.00	13-2	13-3	13-3	13-4	13-4	13-5	13-5	13-6	13-6	13-7
250.00	16-3	16-4	16-5	16-5	16-6	16-7	16-7	16-8	16-8	16-9
275.00	19-9	19-9	19-10	19-11	20-0	20-0	20-1	20-2	20-3	20-4
300.00	23-6	23-7	23-8	23-9	23-10	23-11	24-0	24-0	24-1	24-2
325.00	27-7	27-8	27-10	27-11	28-0	28-1	28-2	28-3	28-4	28-5
350.00	32-1	32-2	32-3	32-5	32-6	32-7	32-9	32-10	32-11	33-0
375.00	36-10	37-0	37-1	37-3	37-4	37-6	37-7	37-9	37-10	38-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.37

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-6	10-7	10-7	10-7	10-7	10-8	10-8	10-8	10-8	10-8
225.00	13-4	13-5	13-5	13-5	13-5	13-6	13-6	13-6	13-6	13-7
250.00	16-6	16-6	16-7	16-7	16-7	16-8	16-8	16-8	16-9	16-9
275.00	20-0	20-0	20-1	20-1	20-2	20-2	20-2	20-3	20-3	20-4
300.00	23-10	23-10	23-11	23-11	24-0	24-0	24-1	24-1	24-2	24-2
325.00	28-0	28-1	28-1	28-2	28-2	28-3	28-4	28-4	28-5	28-5
350.00	32-6	32-7	32-8	32-8	32-9	32-10	32-10	32-11	33-0	33-1
375.00	37-5	37-6	37-6	37-7	37-8	37-9	37-10	37-10	37-11	38-0
400.00	42-7	42-8	42-9	42-10	42-11	43-0	43-1	43-2	43-3	43-4
425.00	48-3	48-4	48-5	48-6	48-7	48-8	48-9	48-10	48-11	49-0
450.00	54-2	54-3	54-4	54-5	54-7	54-8	54-9	54-10	54-11	55-0
475.00	60-6	60-7	60-8	60-10	60-11	61-0	61-2	61-3	61-4	61-5
500.00	67-2	67-3	67-5	67-6	67-8	67-9	67-11	68-0	68-2	68-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-7	10-7	10-7	10-8	10-8	10-8	10-8	10-8	10-9	10-9
225.00	13-5	13-5	13-5	13-6	13-6	13-6	13-6	13-7	13-7	13-7
250.00	16-7	16-7	16-7	16-8	16-8	16-8	16-9	16-9	16-9	16-10
275.00	20-1	20-1	20-1	20-2	20-2	20-3	20-3	20-4	20-4	20-4
300.00	23-11	23-11	24-0	24-0	24-1	24-1	24-2	24-2	24-3	24-3
325.00	28-1	28-2	28-2	28-3	28-3	28-4	28-5	28-5	28-6	28-6
350.00	32-7	32-8	32-9	32-9	32-10	32-11	33-0	33-0	33-1	33-2
375.00	37-6	37-7	37-8	37-8	37-9	37-10	37-11	38-0	38-1	38-1
400.00	42-9	42-10	42-11	43-0	43-1	43-2	43-3	43-3	43-4	43-5
425.00	48-4	48-5	48-6	48-7	48-8	48-9	48-11	49-0	49-1	49-2
450.00	54-4	54-5	54-6	54-7	54-9	54-10	54-11	55-0	55-1	55-3
475.00	60-8	60-9	60-10	61-0	61-1	61-2	61-4	61-5	61-6	61-8
500.00	67-4	67-6	67-7	67-9	67-10	68-0	68-1	68-3	68-4	68-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.38

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	16-10	16-11	16-11	16-11	16-11	16-11	17-0	17-0	17-0	17-0
275.00	20-5	20-5	20-6	20-6	20-6	20-7	20-7	20-7	20-7	20-8
300.00	24-4	24-5	24-5	24-5	24-5	24-6	24-6	24-6	24-7	24-7
325.00	28-7	28-8	28-8	28-9	28-9	28-9	28-10	28-10	28-10	28-11
350.00	33-3	33-3	33-4	33-4	33-5	33-5	33-6	33-6	33-6	33-7
375.00	38-3	38-3	38-4	38-4	38-5	38-5	38-6	38-6	38-7	38-7
400.00	43-7	43-8	43-8	43-9	43-9	43-10	43-10	43-11	44-0	44-0
425.00	49-4	49-4	49-5	49-6	49-6	49-7	49-8	49-8	49-9	49-9
450.00	55-5	55-5	55-6	55-7	55-8	55-8	55-9	55-10	55-11	55-11
475.00	61-10	61-11	62-0	62-1	62-1	62-2	62-3	62-4	62-5	62-6
500.00	68-8	68-9	68-10	68-11	69-0	69-1	69-2	69-3	69-4	69-5
525.00	75-11	76-0	76-1	76-2	76-3	76-4	76-5	76-6	76-7	76-8
550.00	83-6	83-8	83-9	83-10	83-11	84-0	84-1	84-2	84-3	84-5
575.00	91-7	91-8	91-9	91-10	91-11	92-1	92-2	92-3	92-4	92-6
600.00	99-11	100-1	100-2	100-4	100-5	100-6	100-8	100-9	100-10	101-0
625.00	108-9	108-11	109-0	109-2	109-3	109-5	109-6	109-8	109-9	109-11

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	16-11	16-11	16-11	16-11	17-0	17-0	17-0	17-0	17-1	17-1
275.00	20-6	20-6	20-6	20-6	20-7	20-7	20-7	20-8	20-8	20-8
300.00	24-5	24-5	24-5	24-6	24-6	24-6	24-7	24-7	24-7	24-8
325.00	28-8	28-8	28-9	28-9	28-10	28-10	28-10	28-11	28-11	28-11
350.00	33-4	33-4	33-5	33-5	33-5	33-6	33-6	33-7	33-7	33-8
375.00	38-4	38-4	38-5	38-5	38-6	38-6	38-7	38-7	38-8	38-8
400.00	43-8	43-9	43-9	43-10	43-10	43-11	43-11	44-0	44-1	44-1
425.00	49-5	49-5	49-6	49-7	49-7	49-8	49-9	49-9	49-10	49-11
450.00	55-6	55-7	55-7	55-8	55-9	55-10	55-10	55-11	56-0	56-1
475.00	61-11	62-0	62-1	62-2	62-3	62-4	62-5	62-5	62-6	62-7
500.00	68-10	68-11	69-0	69-1	69-1	69-2	69-3	69-4	69-5	69-6
525.00	76-1	76-2	76-3	76-4	76-5	76-6	76-7	76-8	76-9	76-10
550.00	83-8	83-9	83-10	84-0	84-1	84-2	84-3	84-4	84-5	84-7
575.00	91-8	91-10	91-11	92-0	92-2	92-3	92-4	92-5	92-7	92-8
600.00	100-2	100-3	100-4	100-6	100-7	100-9	100-10	100-11	101-1	101-2
625.00	109-0	109-1	109-3	109-4	109-6	109-7	109-9	109-10	110-0	110-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.39

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	3.074	1.93	1989	1.92	2000*
0	0	0	0	1.12	1.41	996	1.27	1103
30	0	0	0	1.12	1.7	824	1.54	912
40	0	0	0	1.12	1.79	781	1.63	861
50	0	0	0	1.12	1.89	743	1.72	817
60	0	0	0	1.12	1.98	710	1.8	777
70	0	0	0	1.12	2.06	680	1.89	742
80	0	0	0	1.12	2.15	653	1.98	710
90	0	0	0	1.12	2.23	629	2.06	681
100	0	0	0	1.12	2.31	607	2.14	655
110	0	0	0	1.12	2.39	587	2.22	632
120	0	0	0	1.12	2.47	569	2.3	610
130	0	0	0	1.12	2.54	552	2.37	591
167	0	0	0	1.12	2.71	518	2.64	531
212	0	0	0	1.12	2.9	485	2.88	488

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	3.074	7.75	1996	7.73	2000*
0	0	0	0	1.12	7.17	785	6.98	806
30	0	0	0	1.12	7.49	752	7.29	772
40	0	0	0	1.12	7.59	742	7.39	761
50	0	0	0	1.12	7.69	732	7.49	751
60	0	0	0	1.12	7.79	723	7.59	742
70	0	0	0	1.12	7.89	714	7.69	732
80	0	0	0	1.12	7.99	705	7.79	723
90	0	0	0	1.12	8.09	697	7.89	714
100	0	0	0	1.12	8.19	689	7.98	706
110	0	0	0	1.12	8.28	681	8.08	698
120	0	0	0	1.12	8.38	673	8.17	690
130	0	0	0	1.12	8.47	666	8.27	682
167	0	0	0	1.12	8.77	643	8.6	656
212	0	0	0	1.12	9.02	626	9	627

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.40

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	3.074	17.55	1998	17.53	2000*
0	0	0	0	1.12	16.96	752	16.77	761
30	0	0	0	1.12	17.28	739	17.08	747
40	0	0	0	1.12	17.39	734	17.19	743
50	0	0	0	1.12	17.49	730	17.29	739
60	0	0	0	1.12	17.59	726	17.39	734
70	0	0	0	1.12	17.7	722	17.49	730
80	0	0	0	1.12	17.8	718	17.59	726
90	0	0	0	1.12	17.9	714	17.69	722
100	0	0	0	1.12	18	710	17.79	718
110	0	0	0	1.12	18.1	706	17.89	714
120	0	0	0	1.12	18.2	702	17.99	711
130	0	0	0	1.12	18.3	699	18.09	707
167	0	0	0	1.12	18.66	686	18.45	693
212	0	0	0	1.12	18.94	676	18.88	678

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	3.074	31.53	1999	31.51	2000*
0	0	0	0	1.12	30.94	741	30.75	746
30	0	0	0	1.12	31.26	734	31.06	739
40	0	0	0	1.12	31.36	732	31.16	736
50	0	0	0	1.12	31.47	729	31.26	734
60	0	0	0	1.12	31.57	727	31.37	732
70	0	0	0	1.12	31.68	725	31.47	730
80	0	0	0	1.12	31.78	723	31.57	727
90	0	0	0	1.12	31.88	720	31.67	725
100	0	0	0	1.12	31.99	718	31.77	723
110	0	0	0	1.12	32.09	716	31.87	721
120	0	0	0	1.12	32.19	714	31.97	719
130	0	0	0	1.12	32.29	712	32.07	716
167	0	0	0	1.12	32.67	704	32.44	709
212	0	0	0	1.12	32.97	698	32.89	700

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.41

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	3.074	49.98	1999	49.96	2000*
0	0	0	0	1.12	49.4	736	49.2	739
30	0	0	0	1.12	49.71	732	49.51	735
40	0	0	0	1.12	49.82	731	49.61	733
50	0	0	0	1.12	49.92	729	49.72	732
60	0	0	0	1.12	50.03	728	49.82	731
70	0	0	0	1.12	50.13	726	49.92	729
80	0	0	0	1.12	50.23	725	50.02	728
90	0	0	0	1.12	50.34	724	50.12	726
100	0	0	0	1.12	50.44	722	50.22	725
110	0	0	0	1.12	50.54	721	50.33	724
120	0	0	0	1.12	50.65	720	50.43	722
130	0	0	0	1.12	50.75	718	50.53	721
167	0	0	0	1.12	51.13	713	50.9	716
212	0	0	0	1.12	51.44	709	51.35	710

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.42

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
100.00	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3
125.00	2-3	2-5	2-7	2-8	2-10	2-11	3-1	3-3	3-4	3-6
150.00	3-3	3-6	3-8	3-10	4-1	4-3	4-5	4-8	4-10	5-0
175.00	4-5	4-9	5-0	5-3	5-6	5-10	6-1	6-4	6-7	6-10
200.00	5-10	6-2	6-6	6-10	7-3	7-7	7-11	8-3	8-7	8-11

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3	1-4	1-4
100.00	1-7	1-8	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
125.00	2-6	2-8	2-10	2-11	3-1	3-3	3-4	3-6	3-7	3-9
150.00	3-7	3-10	4-0	4-3	4-5	4-8	4-10	5-0	5-2	5-5
175.00	4-11	5-3	5-6	5-9	6-1	6-4	6-7	6-10	7-1	7-4
200.00	6-5	6-10	7-2	7-7	7-11	8-3	8-7	8-11	9-3	9-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.43

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-10	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0
125.00	2-10	2-10	2-11	2-11	3-0	3-0	3-0	3-1	3-1	3-2
150.00	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-5	4-6	4-6
175.00	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-0	6-1	6-2
200.00	7-2	7-4	7-5	7-6	7-7	7-8	7-9	7-11	8-0	8-1
225.00	9-1	9-3	9-4	9-6	9-7	9-9	9-10	10-0	10-1	10-3
250.00	11-3	11-5	11-7	11-9	11-11	12-0	12-2	12-4	12-6	12-8

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0	2-1	2-1
125.00	2-11	2-11	3-0	3-0	3-0	3-1	3-1	3-2	3-2	3-3
150.00	4-2	4-2	4-3	4-4	4-5	4-5	4-6	4-7	4-7	4-8
175.00	5-8	5-9	5-10	5-11	6-0	6-0	6-1	6-2	6-3	6-4
200.00	7-5	7-6	7-7	7-8	7-10	7-11	8-0	8-1	8-2	8-3
225.00	9-4	9-6	9-7	9-9	9-10	10-0	10-1	10-3	10-4	10-6
250.00	11-7	11-9	11-10	12-0	12-2	12-4	12-6	12-8	12-10	12-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.44

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-3	4-3	4-3	4-4	4-4	4-4	4-5	4-5	4-5	4-5
175.00	5-9	5-10	5-10	5-10	5-11	5-11	6-0	6-0	6-0	6-1
200.00	7-6	7-7	7-7	7-8	7-9	7-9	7-10	7-10	7-11	7-11
225.00	9-6	9-7	9-8	9-8	9-9	9-10	9-10	9-11	10-0	10-0
250.00	11-9	11-10	11-11	12-0	12-1	12-2	12-2	12-3	12-4	12-5
275.00	14-3	14-4	14-5	14-6	14-7	14-8	14-9	14-10	14-11	15-0
300.00	17-0	17-1	17-2	17-3	17-5	17-6	17-7	17-8	17-9	17-11
325.00	19-11	20-1	20-2	20-4	20-5	20-6	20-8	20-9	20-11	21-0
350.00	23-2	23-3	23-5	23-7	23-8	23-10	24-0	24-1	24-3	24-5
375.00	26-7	26-9	26-11	27-1	27-3	27-5	27-7	27-9	27-10	28-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-3	4-4	4-4	4-4	4-5	4-5	4-5	4-6	4-6	4-6
175.00	5-10	5-10	5-11	5-11	6-0	6-0	6-0	6-1	6-1	6-2
200.00	7-7	7-8	7-8	7-9	7-10	7-10	7-11	7-11	8-0	8-0
225.00	9-8	9-8	9-9	9-10	9-11	9-11	10-0	10-1	10-1	10-2
250.00	11-11	12-0	12-1	12-2	12-2	12-3	12-4	12-5	12-6	12-7
275.00	14-5	14-6	14-7	14-8	14-9	14-10	14-11	15-0	15-1	15-2
300.00	17-2	17-3	17-5	17-6	17-7	17-8	17-10	17-11	18-0	18-1
325.00	20-2	20-4	20-5	20-7	20-8	20-9	20-11	21-0	21-2	21-3
350.00	23-5	23-7	23-8	23-10	24-0	24-2	24-3	24-5	24-7	24-8
375.00	26-11	27-1	27-3	27-5	27-7	27-9	27-11	28-1	28-2	28-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.45

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-8	7-9	7-9	7-9	7-10	7-10	7-10	7-10	7-11	7-11
225.00	9-9	9-9	9-10	9-10	9-10	9-11	9-11	10-0	10-0	10-0
250.00	12-0	12-1	12-1	12-2	12-2	12-3	12-3	12-4	12-4	12-5
275.00	14-7	14-7	14-8	14-9	14-9	14-10	14-10	14-11	14-11	15-0
300.00	17-4	17-5	17-6	17-6	17-7	17-8	17-8	17-9	17-10	17-10
325.00	20-5	20-5	20-6	20-7	20-8	20-9	20-9	20-10	20-11	21-0
350.00	23-8	23-9	23-10	23-11	24-0	24-1	24-1	24-2	24-3	24-4
375.00	27-2	27-3	27-4	27-5	27-6	27-8	27-9	27-10	27-11	28-0
400.00	30-11	31-1	31-2	31-3	31-4	31-6	31-7	31-8	31-9	31-10
425.00	35-0	35-1	35-3	35-4	35-5	35-7	35-8	35-9	35-11	36-0
450.00	39-3	39-5	39-6	39-8	39-9	39-11	40-0	40-2	40-4	40-5
475.00	43-10	43-11	44-1	44-3	44-5	44-6	44-8	44-10	44-11	45-1
500.00	48-7	48-9	48-11	49-1	49-3	49-5	49-7	49-9	49-10	50-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-9	7-9	7-10	7-10	7-10	7-10	7-11	7-11	7-11	8-0
225.00	9-10	9-10	9-10	9-11	9-11	10-0	10-0	10-0	10-1	10-1
250.00	12-1	12-2	12-2	12-3	12-3	12-4	12-4	12-5	12-5	12-6
275.00	14-8	14-9	14-9	14-10	14-10	14-11	14-11	15-0	15-1	15-1
300.00	17-6	17-6	17-7	17-8	17-8	17-9	17-10	17-10	17-11	18-0
325.00	20-6	20-7	20-8	20-9	20-9	20-10	20-11	21-0	21-1	21-1
350.00	23-10	23-11	24-0	24-1	24-2	24-2	24-3	24-4	24-5	24-6
375.00	27-4	27-5	27-6	27-8	27-9	27-10	27-11	28-0	28-1	28-2
400.00	31-2	31-3	31-4	31-6	31-7	31-8	31-9	31-11	32-0	32-1
425.00	35-2	35-4	35-5	35-7	35-8	35-10	35-11	36-0	36-2	36-3
450.00	39-6	39-8	39-9	39-11	40-1	40-2	40-4	40-5	40-7	40-8
475.00	44-1	44-3	44-4	44-6	44-8	44-10	45-0	45-1	45-3	45-5
500.00	48-11	49-1	49-3	49-5	49-7	49-9	49-11	50-1	50-3	50-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.46

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	12-3	12-3	12-3	12-4	12-4	12-4	12-5	12-5	12-5	12-5
275.00	14-10	14-10	14-11	14-11	14-11	15-0	15-0	15-0	15-1	15-1
300.00	17-8	17-8	17-9	17-9	17-9	17-10	17-10	17-11	17-11	18-0
325.00	20-9	20-9	20-10	20-10	20-11	20-11	21-0	21-0	21-1	21-1
350.00	24-1	24-1	24-2	24-2	24-3	24-4	24-4	24-5	24-5	24-6
375.00	27-8	27-8	27-9	27-10	27-10	27-11	28-0	28-0	28-1	28-2
400.00	31-6	31-7	31-7	31-8	31-9	31-10	31-10	31-11	32-0	32-1
425.00	35-7	35-8	35-9	35-10	35-10	35-11	36-0	36-1	36-2	36-3
450.00	39-11	40-0	40-1	40-2	40-3	40-4	40-5	40-6	40-7	40-8
475.00	44-6	44-8	44-9	44-10	44-11	45-0	45-1	45-2	45-3	45-4
500.00	49-5	49-6	49-7	49-9	49-10	49-11	50-0	50-1	50-3	50-4
525.00	54-7	54-8	54-9	54-11	55-0	55-1	55-3	55-4	55-5	55-7
550.00	59-11	60-1	60-2	60-4	60-5	60-7	60-8	60-10	60-11	61-1
575.00	65-7	65-9	65-11	66-0	66-2	66-4	66-5	66-7	66-8	66-10
600.00	71-7	71-8	71-10	72-0	72-2	72-4	72-5	72-7	72-9	72-11
625.00	77-9	77-11	78-1	78-3	78-5	78-7	78-9	78-11	79-1	79-3

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	12-3	12-4	12-4	12-4	12-5	12-5	12-5	12-6	12-6	12-6
275.00	14-10	14-11	14-11	15-0	15-0	15-0	15-1	15-1	15-1	15-2
300.00	17-9	17-9	17-9	17-10	17-10	17-11	17-11	18-0	18-0	18-1
325.00	20-10	20-10	20-11	20-11	21-0	21-0	21-1	21-1	21-2	21-2
350.00	24-2	24-2	24-3	24-4	24-4	24-5	24-5	24-6	24-7	24-7
375.00	27-9	27-10	27-10	27-11	28-0	28-0	28-1	28-2	28-3	28-3
400.00	31-7	31-8	31-9	31-10	31-10	31-11	32-0	32-1	32-2	32-2
425.00	35-9	35-9	35-10	35-11	36-0	36-1	36-2	36-3	36-4	36-5
450.00	40-1	40-2	40-3	40-4	40-5	40-6	40-7	40-8	40-9	40-10
475.00	44-9	44-10	44-11	45-0	45-1	45-2	45-3	45-4	45-6	45-7
500.00	49-7	49-9	49-10	49-11	50-0	50-2	50-3	50-4	50-5	50-7
525.00	54-9	54-11	55-0	55-1	55-3	55-4	55-5	55-7	55-8	55-10
550.00	60-2	60-4	60-5	60-7	60-8	60-10	60-11	61-1	61-2	61-4
575.00	65-10	66-0	66-2	66-4	66-5	66-7	66-9	66-10	67-0	67-2
600.00	71-10	72-0	72-2	72-4	72-5	72-7	72-9	72-11	73-1	73-3
625.00	78-1	78-3	78-5	78-7	78-9	78-11	79-1	79-3	79-5	79-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.47

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	6.303	8.09	1000	8.09	1000*
0	0	0	0	1.12	7.99	180	7.96	180
30	0	0	0	1.12	8.07	178	8.05	178
40	0	0	0	1.12	8.1	177	8.07	178
50	0	0	0	1.12	8.12	177	8.1	177
60	0	0	0	1.12	8.15	176	8.12	177
70	0	0	0	1.12	8.17	176	8.15	176
80	0	0	0	1.12	8.2	175	8.17	176
90	0	0	0	1.12	8.21	175	8.2	175
100	0	0	0	1.12	8.23	175	8.22	175
110	0	0	0	1.12	8.25	174	8.24	175
120	0	0	0	1.12	8.26	174	8.26	174
130	0	0	0	1.12	8.28	174	8.27	174
167	0	0	0	1.12	8.34	173	8.34	173
212	0	0	0	1.12	8.41	171	8.41	171

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	6.303	35.53	1000	35.53	1000*
0	0	0	0	1.12	35.44	178	35.41	178
30	0	0	0	1.12	35.52	178	35.5	178
40	0	0	0	1.12	35.54	178	35.52	178
50	0	0	0	1.12	35.57	178	35.55	178
60	0	0	0	1.12	35.59	177	35.57	178
70	0	0	0	1.12	35.62	177	35.6	177
80	0	0	0	1.12	35.64	177	35.62	177
90	0	0	0	1.12	35.66	177	35.65	177
100	0	0	0	1.12	35.68	177	35.67	177
110	0	0	0	1.12	35.69	177	35.69	177
120	0	0	0	1.12	35.71	177	35.7	177
130	0	0	0	1.12	35.73	177	35.72	177
167	0	0	0	1.12	35.79	177	35.78	177
212	0	0	0	1.12	35.86	176	35.86	176

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.48

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	4-6	4-6	4-6	4-6	4-7	4-7	4-7	4-7	4-7	4-7
100.00	8-0	8-1	8-1	8-1	8-1	8-2	8-2	8-2	8-3	8-3
125.00	12-7	12-8	12-8	12-9	12-9	12-10	12-10	12-11	12-11	12-11
150.00	18-3	18-4	18-4	18-5	18-6	18-6	18-7	18-8	18-9	18-9
175.00	25-0	25-1	25-2	25-3	25-4	25-5	25-6	25-7	25-8	25-8
200.00	32-11	33-0	33-2	33-3	33-4	33-5	33-7	33-8	33-9	33-10

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	4-6	4-6	4-6	4-7	4-7	4-7	4-7	4-7	4-7	4-7
100.00	8-1	8-1	8-1	8-1	8-2	8-2	8-2	8-3	8-3	8-3
125.00	12-8	12-8	12-9	12-9	12-10	12-10	12-10	12-11	12-11	12-11
150.00	18-4	18-4	18-5	18-6	18-6	18-7	18-8	18-8	18-9	18-9
175.00	25-1	25-2	25-3	25-4	25-5	25-6	25-7	25-7	25-8	25-9
200.00	33-0	33-1	33-3	33-4	33-5	33-7	33-8	33-9	33-10	33-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.49

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	8-7	8-7	8-8	8-8	8-8	8-8	8-8	8-8	8-8	8-8
125.00	13-6	13-7	13-7	13-7	13-7	13-7	13-7	13-7	13-7	13-7
150.00	19-7	19-8	19-8	19-8	19-8	19-8	19-8	19-9	19-9	19-9
175.00	26-11	26-11	26-11	27-0	27-0	27-0	27-0	27-1	27-1	27-1
200.00	35-6	35-6	35-6	35-7	35-7	35-7	35-7	35-8	35-8	35-8
225.00	45-4	45-5	45-5	45-5	45-6	45-6	45-7	45-7	45-7	45-8
250.00	56-8	56-8	56-9	56-9	56-10	56-10	56-11	56-11	57-0	57-0

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	8-7	8-8	8-8	8-8	8-8	8-8	8-8	8-8	8-8	8-8
125.00	13-6	13-7	13-7	13-7	13-7	13-7	13-7	13-7	13-7	13-7
150.00	19-8	19-8	19-8	19-8	19-8	19-8	19-9	19-9	19-9	19-9
175.00	26-11	26-11	27-0	27-0	27-0	27-0	27-0	27-1	27-1	27-1
200.00	35-6	35-6	35-7	35-7	35-7	35-7	35-8	35-8	35-8	35-8
225.00	45-5	45-5	45-5	45-6	45-6	45-7	45-7	45-7	45-7	45-8
250.00	56-8	56-9	56-9	56-10	56-10	56-11	56-11	56-11	57-0	57-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.50

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	6.303	5.31	1500	5.31	1500*
0	0	0	0	1.120	5.10	277	5.04	281
30	0	0	0	1.120	5.22	271	5.17	274
40	0	0	0	1.120	5.26	269	5.21	272
50	0	0	0	1.120	5.30	267	5.24	270
60	0	0	0	1.120	5.33	265	5.28	268
70	0	0	0	1.120	5.37	264	5.32	266
80	0	0	0	1.120	5.41	262	5.36	264
90	0	0	0	1.120	5.44	261	5.39	263
100	0	0	0	1.120	5.46	259	5.43	261
110	0	0	0	1.120	5.48	258	5.47	259
120	0	0	0	1.120	5.51	257	5.50	257
130	0	0	0	1.120	5.53	256	5.53	256
167	0	0	0	1.120	5.62	252	5.62	252
212	0	0	0	1.120	5.73	248	5.72	248

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	6.303	22.03	1500	22.03	1500*
0	0	0	0	1.120	21.83	269	21.77	270
30	0	0	0	1.120	21.94	268	21.89	268
40	0	0	0	1.120	21.98	267	21.93	268
50	0	0	0	1.120	22.02	267	21.97	267
60	0	0	0	1.120	22.06	266	22.00	267
70	0	0	0	1.120	22.10	266	22.04	266
80	0	0	0	1.120	22.13	265	22.08	266
90	0	0	0	1.120	22.16	265	22.12	266
100	0	0	0	1.120	22.19	265	22.15	265
110	0	0	0	1.120	22.21	265	22.19	265
120	0	0	0	1.120	22.24	264	22.23	264
130	0	0	0	1.120	22.26	264	22.26	264
167	0	0	0	1.120	22.36	263	22.35	263
212	0	0	0	1.120	22.47	262	22.46	262

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.51

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	6.303	53.30	1500	53.30	1500*
0	0	0	0	1.120	53.09	267	53.03	268
30	0	0	0	1.120	53.21	267	53.15	267
40	0	0	0	1.120	53.24	267	53.19	267
50	0	0	0	1.120	53.28	267	53.23	267
60	0	0	0	1.120	53.32	266	53.27	267
70	0	0	0	1.120	53.36	266	53.30	267
80	0	0	0	1.120	53.40	266	53.34	266
90	0	0	0	1.120	53.42	266	53.38	266
100	0	0	0	1.120	53.45	266	53.42	266
110	0	0	0	1.120	53.47	266	53.45	266
120	0	0	0	1.120	53.50	266	53.49	266
130	0	0	0	1.120	53.52	266	53.52	266
167	0	0	0	1.120	53.62	265	53.61	265
212	0	0	0	1.120	53.73	265	53.73	265

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	6.303	109.85	1500	109.85	1500*
0	0	0	0	1.120	109.65	267	109.59	267
30	0	0	0	1.120	109.76	267	109.71	267
40	0	0	0	1.120	109.80	267	109.75	267
50	0	0	0	1.120	109.83	267	109.78	267
60	0	0	0	1.120	109.87	267	109.82	267
70	0	0	0	1.120	109.91	266	109.85	267
80	0	0	0	1.120	109.94	266	109.89	266
90	0	0	0	1.120	109.97	266	109.93	266
100	0	0	0	1.120	109.99	266	109.96	266
110	0	0	0	1.120	110.02	266	110.00	266
120	0	0	0	1.120	110.04	266	110.04	266
130	0	0	0	1.120	110.07	266	110.06	266
167	0	0	0	1.120	110.16	266	110.15	266
212	0	0	0	1.120	110.27	266	110.26	266

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.52

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-11	2-11	2-11	2-11	3-0	3-0	3-0	3-0	3-1	3-1
100.00	5-2	5-2	5-2	5-3	5-3	5-4	5-4	5-5	5-5	5-6
125.00	8-0	8-1	8-2	8-3	8-3	8-4	8-5	8-5	8-6	8-7
150.00	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-4
175.00	15-10	15-11	16-1	16-2	16-4	16-5	16-6	16-8	16-9	16-11
200.00	20-9	20-11	21-1	21-2	21-4	21-6	21-8	21-10	22-0	22-2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-11	2-11	2-11	3-0	3-0	3-0	3-0	3-1	3-1	3-1
100.00	5-2	5-3	5-3	5-4	5-4	5-4	5-5	5-5	5-6	5-6
125.00	8-1	8-2	8-3	8-4	8-4	8-5	8-6	8-6	8-7	8-7
150.00	11-8	11-10	11-11	12-0	12-1	12-2	12-3	12-3	12-4	12-5
175.00	16-0	16-1	16-3	16-4	16-6	16-7	16-8	16-9	16-10	16-11
200.00	20-11	21-1	21-3	21-5	21-7	21-9	21-11	22-0	22-1	22-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.53

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-6	5-6	5-6
125.00	8-5	8-6	8-6	8-6	8-6	8-6	8-7	8-7	8-7	8-7
150.00	12-3	12-3	12-3	12-3	12-4	12-4	12-4	12-4	12-5	12-5
175.00	16-8	16-8	16-9	16-9	16-9	16-10	16-10	16-10	16-11	16-11
200.00	21-10	21-11	21-11	22-0	22-0	22-0	22-1	22-1	22-2	22-2
225.00	27-9	27-10	27-10	27-11	28-0	28-0	28-1	28-1	28-2	28-2
250.00	34-5	34-6	34-7	34-7	34-8	34-9	34-10	34-10	34-11	35-0

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	5-5	5-5	5-5	5-5	5-5	5-6	5-6	5-6	5-6	5-6
125.00	8-6	8-6	8-6	8-6	8-6	8-7	8-7	8-7	8-7	8-7
150.00	12-3	12-3	12-3	12-4	12-4	12-4	12-4	12-5	12-5	12-5
175.00	16-9	16-9	16-9	16-10	16-10	16-10	16-11	16-11	16-11	16-11
200.00	21-11	21-11	22-0	22-0	22-1	22-1	22-2	22-2	22-2	22-3
225.00	27-10	27-11	27-11	28-0	28-0	28-1	28-2	28-2	28-2	28-3
250.00	34-6	34-7	34-8	34-9	34-9	34-10	34-11	34-11	35-0	35-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.54

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	12-11	12-11	12-11	12-11	12-11	12-11	12-11	13-0	13-0	13-0
175.00	17-7	17-8	17-8	17-8	17-8	17-8	17-8	17-8	17-9	17-9
200.00	23-1	23-1	23-2	23-2	23-2	23-2	23-2	23-3	23-3	23-3
225.00	29-5	29-5	29-5	29-5	29-6	29-6	29-6	29-6	29-6	29-7
250.00	36-5	36-6	36-6	36-6	36-7	36-7	36-7	36-8	36-8	36-8
275.00	44-4	44-5	44-5	44-5	44-6	44-6	44-7	44-7	44-7	44-8
300.00	53-1	53-2	53-2	53-3	53-3	53-4	53-4	53-5	53-5	53-5
325.00	62-9	62-10	62-10	62-11	62-11	63-0	63-0	63-1	63-1	63-2
350.00	73-4	73-4	73-5	73-6	73-6	73-7	73-7	73-8	73-9	73-9
375.00	84-10	84-10	84-11	85-0	85-1	85-1	85-2	85-3	85-4	85-4

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	12-11	12-11	12-11	12-11	12-11	12-11	13-0	13-0	13-0	13-0
175.00	17-8	17-8	17-8	17-8	17-8	17-8	17-9	17-9	17-9	17-9
200.00	23-2	23-2	23-2	23-2	23-2	23-3	23-3	23-3	23-3	23-3
225.00	29-5	29-5	29-5	29-6	29-6	29-6	29-6	29-7	29-7	29-7
250.00	36-6	36-6	36-6	36-7	36-7	36-7	36-8	36-8	36-8	36-8
275.00	44-5	44-5	44-6	44-6	44-6	44-7	44-7	44-7	44-8	44-8
300.00	53-2	53-2	53-3	53-3	53-4	53-4	53-5	53-5	53-5	53-6
325.00	62-10	62-10	62-11	62-11	63-0	63-1	63-1	63-1	63-2	63-2
350.00	73-5	73-5	73-6	73-6	73-7	73-8	73-8	73-9	73-9	73-10
375.00	84-11	84-11	85-0	85-1	85-2	85-2	85-3	85-4	85-4	85-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.55

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	25-9	25-9	25-9	25-9	25-9	25-9	25-10	25-10	25-10	25-10
225.00	32-9	32-9	32-9	32-10	32-10	32-10	32-10	32-10	32-10	32-10
250.00	40-9	40-9	40-9	40-9	40-9	40-9	40-9	40-10	40-10	40-10
275.00	49-7	49-7	49-8	49-8	49-8	49-8	49-8	49-8	49-9	49-9
300.00	59-6	59-6	59-6	59-6	59-7	59-7	59-7	59-7	59-7	59-8
325.00	70-4	70-5	70-5	70-5	70-6	70-6	70-6	70-6	70-7	70-7
350.00	82-4	82-4	82-5	82-5	82-5	82-6	82-6	82-6	82-7	82-7
375.00	95-5	95-5	95-6	95-6	95-7	95-7	95-7	95-8	95-8	95-8
400.00	109-8	109-9	109-9	109-9	109-10	109-10	109-11	109-11	110-0	110-0
425.00	125-2	125-2	125-3	125-3	125-4	125-4	125-5	125-5	125-6	125-6
450.00	141-11	141-11	142-0	142-1	142-1	142-2	142-2	142-3	142-4	142-4
475.00	160-0	160-1	160-2	160-2	160-3	160-4	160-4	160-5	160-6	160-6
500.00	179-7	179-7	179-8	179-9	179-10	179-10	179-11	180-0	180-1	180-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	25-9	25-9	25-9	25-9	25-9	25-10	25-10	25-10	25-10	25-10
225.00	32-9	32-10	32-10	32-10	32-10	32-10	32-10	32-10	32-10	32-10
250.00	40-9	40-9	40-9	40-9	40-9	40-9	40-10	40-10	40-10	40-10
275.00	49-7	49-8	49-8	49-8	49-8	49-8	49-9	49-9	49-9	49-9
300.00	59-6	59-6	59-6	59-7	59-7	59-7	59-7	59-8	59-8	59-8
325.00	70-5	70-5	70-5	70-6	70-6	70-6	70-6	70-7	70-7	70-7
350.00	82-5	82-5	82-5	82-5	82-6	82-6	82-6	82-7	82-7	82-7
375.00	95-6	95-6	95-6	95-7	95-7	95-7	95-8	95-8	95-8	95-9
400.00	109-9	109-9	109-10	109-10	109-10	109-11	109-11	110-0	110-0	110-0
425.00	125-2	125-3	125-3	125-4	125-4	125-5	125-6	125-6	125-6	125-7
450.00	142-0	142-0	142-1	142-1	142-2	142-3	142-3	142-4	142-4	142-4
475.00	160-1	160-2	160-2	160-3	160-4	160-5	160-5	160-6	160-6	160-7
500.00	179-8	179-8	179-9	179-10	179-11	180-0	180-0	180-1	180-1	180-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.56

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	6.303	3.96	2000	3.96	2000*
0	0	0	0	1.120	3.58	393	3.48	405
30	0	0	0	1.120	3.75	376	3.64	387
40	0	0	0	1.120	3.80	371	3.69	381
50	0	0	0	1.120	3.85	366	3.74	376
60	0	0	0	1.120	3.90	361	3.80	371
70	0	0	0	1.120	3.95	356	3.85	366
80	0	0	0	1.120	4.00	352	3.90	361
90	0	0	0	1.120	4.04	349	3.95	357
100	0	0	0	1.120	4.07	346	4.00	353
110	0	0	0	1.120	4.11	343	4.05	348
120	0	0	0	1.120	4.14	341	4.09	344
130	0	0	0	1.120	4.17	338	4.14	340
167	0	0	0	1.120	4.28	329	4.27	330
212	0	0	0	1.120	4.42	319	4.41	320

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	6.303	16.17	2000	16.17	2000*
0	0	0	0	1.120	15.80	363	15.70	366
30	0	0	0	1.120	15.95	360	15.85	362
40	0	0	0	1.120	16.01	359	15.90	361
50	0	0	0	1.120	16.06	358	15.95	360
60	0	0	0	1.120	16.11	357	16.00	359
70	0	0	0	1.120	16.16	356	16.05	358
80	0	0	0	1.120	16.21	355	16.10	357
90	0	0	0	1.120	16.25	354	16.15	356
100	0	0	0	1.120	16.29	353	16.20	355
110	0	0	0	1.120	16.32	352	16.25	354
120	0	0	0	1.120	16.35	352	16.30	353
130	0	0	0	1.120	16.39	351	16.35	352
167	0	0	0	1.120	16.51	348	16.50	349
212	0	0	0	1.120	16.66	346	16.65	346

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.57

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	6.303	37.71	2000	37.71	2000*
0	0	0	0	1.120	37.34	358	37.24	359
30	0	0	0	1.120	37.49	357	37.39	358
40	0	0	0	1.120	37.54	357	37.44	358
50	0	0	0	1.120	37.59	356	37.49	357
60	0	0	0	1.120	37.65	356	37.54	357
70	0	0	0	1.120	37.70	355	37.59	356
80	0	0	0	1.120	37.75	355	37.64	356
90	0	0	0	1.120	37.79	355	37.69	356
100	0	0	0	1.120	37.82	354	37.74	355
110	0	0	0	1.120	37.86	354	37.79	355
120	0	0	0	1.120	37.89	354	37.84	354
130	0	0	0	1.120	37.92	354	37.89	354
167	0	0	0	1.120	38.05	353	38.04	353
212	0	0	0	1.120	38.20	351	38.19	351

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	6.303	71.06	2000	71.06	2000*
0	0	0	0	1.120	70.70	357	70.60	357
30	0	0	0	1.120	70.85	356	70.75	357
40	0	0	0	1.120	70.90	356	70.80	356
50	0	0	0	1.120	70.95	356	70.85	356
60	0	0	0	1.120	71.00	356	70.90	356
70	0	0	0	1.120	71.05	355	70.95	356
80	0	0	0	1.120	71.10	355	71.00	356
90	0	0	0	1.120	71.14	355	71.05	355
100	0	0	0	1.120	71.18	355	71.10	355
110	0	0	0	1.120	71.21	355	71.15	355
120	0	0	0	1.120	71.25	355	71.19	355
130	0	0	0	1.120	71.28	355	71.24	355
167	0	0	0	1.120	71.40	354	71.39	354
212	0	0	0	1.120	71.55	353	71.54	354

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.58

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	6.303	122.49	2000	122.49	2000*
0	0	0	0	1.120	122.13	356	122.04	356
30	0	0	0	1.120	122.28	356	122.18	356
40	0	0	0	1.120	122.33	356	122.23	356
50	0	0	0	1.120	122.38	356	122.28	356
60	0	0	0	1.120	122.43	355	122.33	356
70	0	0	0	1.120	122.48	355	122.38	356
80	0	0	0	1.120	122.53	355	122.43	355
90	0	0	0	1.120	122.57	355	122.47	355
100	0	0	0	1.120	122.61	355	122.52	355
110	0	0	0	1.120	122.64	355	122.57	355
120	0	0	0	1.120	122.67	355	122.62	355
130	0	0	0	1.120	122.70	355	122.67	355
167	0	0	0	1.120	122.83	355	122.82	355
212	0	0	0	1.120	122.98	355	122.96	355

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.59

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-0	2-1	2-1	2-1	2-2	2-2	2-2	2-3	2-3	2-3
100.00	3-7	3-8	3-8	3-9	3-10	3-10	3-11	3-11	4-0	4-1
125.00	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4
150.00	8-1	8-2	8-4	8-5	8-7	8-8	8-9	8-11	9-0	9-2
175.00	11-0	11-2	11-4	11-6	11-8	11-10	12-0	12-2	12-4	12-5
200.00	14-5	14-8	14-10	15-1	15-3	15-6	15-8	15-11	16-1	16-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-1	2-1	2-2	2-2	2-2	2-3	2-3	2-3	2-3	2-4
100.00	3-8	3-9	3-10	3-10	3-11	3-11	4-0	4-1	4-1	4-1
125.00	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-4	6-5
150.00	8-4	8-5	8-7	8-8	8-10	8-11	9-0	9-1	9-2	9-3
175.00	11-4	11-6	11-8	11-10	12-0	12-2	12-4	12-5	12-6	12-8
200.00	14-10	15-1	15-3	15-6	15-8	15-11	16-1	16-3	16-5	16-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.60

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-11	3-11	3-11	4-0	4-0	4-0	4-0	4-0	4-0	4-0
125.00	6-2	6-2	6-2	6-2	6-3	6-3	6-3	6-3	6-4	6-4
150.00	8-10	8-11	8-11	8-11	9-0	9-0	9-0	9-1	9-1	9-1
175.00	12-1	12-1	12-2	12-2	12-3	12-3	12-4	12-4	12-5	12-5
200.00	15-10	15-10	15-11	15-11	16-0	16-1	16-1	16-2	16-2	16-3
225.00	20-0	20-1	20-2	20-3	20-4	20-4	20-5	20-6	20-7	20-7
250.00	24-10	24-11	25-0	25-0	25-1	25-2	25-3	25-4	25-5	25-6

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-11	4-0	4-0	4-0	4-0	4-0	4-0	4-0	4-1	4-1
125.00	6-2	6-2	6-3	6-3	6-3	6-3	6-4	6-4	6-4	6-4
150.00	8-11	8-11	9-0	9-0	9-0	9-1	9-1	9-1	9-2	9-2
175.00	12-2	12-2	12-3	12-3	12-4	12-4	12-5	12-5	12-5	12-6
200.00	15-11	15-11	16-0	16-1	16-1	16-2	16-3	16-3	16-3	16-4
225.00	20-2	20-3	20-4	20-4	20-5	20-6	20-7	20-7	20-8	20-8
250.00	25-0	25-1	25-2	25-3	25-3	25-4	25-5	25-6	25-7	25-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.61

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	9-2	9-3	9-3	9-3	9-3	9-3	9-3	9-3	9-4	9-4
175.00	12-6	12-7	12-7	12-7	12-7	12-7	12-8	12-8	12-8	12-8
200.00	16-5	16-5	16-5	16-6	16-6	16-6	16-7	16-7	16-7	16-7
225.00	20-10	20-10	20-11	20-11	20-11	21-0	21-0	21-0	21-1	21-1
250.00	25-9	25-10	25-10	25-11	25-11	25-11	26-0	26-0	26-1	26-1
275.00	31-3	31-4	31-4	31-5	31-5	31-6	31-6	31-7	31-7	31-8
300.00	37-4	37-5	37-5	37-6	37-6	37-7	37-8	37-8	37-9	37-9
325.00	44-0	44-0	44-1	44-2	44-3	44-3	44-4	44-5	44-5	44-6
350.00	51-2	51-3	51-4	51-5	51-6	51-6	51-7	51-8	51-9	51-10
375.00	59-0	59-1	59-2	59-3	59-4	59-5	59-6	59-7	59-8	59-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	9-3	9-3	9-3	9-3	9-3	9-3	9-4	9-4	9-4	9-4
175.00	12-7	12-7	12-7	12-7	12-8	12-8	12-8	12-8	12-8	12-9
200.00	16-5	16-6	16-6	16-6	16-7	16-7	16-7	16-7	16-7	16-8
225.00	20-11	20-11	20-11	21-0	21-0	21-0	21-1	21-1	21-1	21-1
250.00	25-10	25-11	25-11	25-11	26-0	26-0	26-1	26-1	26-1	26-2
275.00	31-4	31-5	31-5	31-6	31-6	31-7	31-7	31-8	31-8	31-8
300.00	37-5	37-6	37-7	37-7	37-8	37-8	37-9	37-9	37-10	37-10
325.00	44-1	44-2	44-3	44-3	44-4	44-5	44-5	44-6	44-7	44-7
350.00	51-4	51-5	51-6	51-6	51-7	51-8	51-9	51-10	51-10	51-11
375.00	59-2	59-3	59-4	59-5	59-6	59-7	59-8	59-9	59-9	59-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.62

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	17-2	17-2	17-2	17-2	17-3	17-3	17-3	17-3	17-3	17-3
225.00	21-9	21-10	21-10	21-10	21-10	21-10	21-11	21-11	21-11	21-11
250.00	27-0	27-0	27-0	27-0	27-1	27-1	27-1	27-1	27-1	27-2
275.00	32-9	32-9	32-9	32-10	32-10	32-10	32-11	32-11	32-11	32-11
300.00	39-1	39-2	39-2	39-2	39-3	39-3	39-3	39-4	39-4	39-4
325.00	46-1	46-1	46-2	46-2	46-2	46-3	46-3	46-3	46-4	46-4
350.00	53-8	53-8	53-9	53-9	53-10	53-10	53-10	53-11	53-11	54-0
375.00	61-10	61-11	61-11	62-0	62-0	62-1	62-1	62-2	62-2	62-3
400.00	70-8	70-9	70-10	70-10	70-11	70-11	71-0	71-1	71-1	71-2
425.00	80-2	80-3	80-4	80-5	80-5	80-6	80-7	80-7	80-8	80-9
450.00	90-5	90-5	90-6	90-7	90-8	90-9	90-9	90-10	90-11	91-0
475.00	101-3	101-4	101-5	101-6	101-7	101-8	101-9	101-9	101-10	101-11
500.00	112-10	112-11	113-0	113-1	113-2	113-3	113-4	113-5	113-6	113-7

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	17-2	17-2	17-3	17-3	17-3	17-3	17-3	17-3	17-3	17-3
225.00	21-10	21-10	21-10	21-10	21-11	21-11	21-11	21-11	21-11	21-11
250.00	27-0	27-0	27-1	27-1	27-1	27-1	27-2	27-2	27-2	27-2
275.00	32-10	32-10	32-10	32-10	32-11	32-11	32-11	32-11	33-0	33-0
300.00	39-2	39-2	39-3	39-3	39-3	39-4	39-4	39-4	39-4	39-5
325.00	46-2	46-2	46-2	46-3	46-3	46-4	46-4	46-4	46-4	46-5
350.00	53-9	53-9	53-10	53-10	53-10	53-11	53-11	54-0	54-0	54-0
375.00	61-11	62-0	62-0	62-1	62-1	62-2	62-2	62-3	62-3	62-4
400.00	70-10	70-10	70-11	70-11	71-0	71-1	71-1	71-2	71-2	71-3
425.00	80-4	80-5	80-5	80-6	80-7	80-7	80-8	80-9	80-9	80-10
450.00	90-6	90-7	90-8	90-9	90-9	90-10	90-11	91-0	91-0	91-1
475.00	101-5	101-6	101-7	101-8	101-9	101-10	101-10	101-11	102-0	102-0
500.00	113-0	113-1	113-2	113-3	113-4	113-5	113-6	113-7	113-8	113-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.63

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	29-0	29-0	29-0	29-0	29-0	29-1	29-1	29-1	29-1	29-1
275.00	35-3	35-3	35-3	35-3	35-3	35-3	35-4	35-4	35-4	35-4
300.00	42-1	42-1	42-1	42-1	42-2	42-2	42-2	42-2	42-2	42-3
325.00	49-7	49-7	49-8	49-8	49-8	49-8	49-8	49-9	49-9	49-9
350.00	57-9	57-10	57-10	57-10	57-10	57-11	57-11	57-11	58-0	58-0
375.00	66-8	66-8	66-9	66-9	66-9	66-10	66-10	66-10	66-10	66-11
400.00	76-3	76-3	76-4	76-4	76-5	76-5	76-5	76-6	76-6	76-6
425.00	86-7	86-7	86-8	86-8	86-9	86-9	86-9	86-10	86-10	86-11
450.00	97-8	97-8	97-9	97-9	97-10	97-10	97-11	97-11	97-11	98-0
475.00	109-6	109-6	109-7	109-7	109-8	109-8	109-9	109-10	109-10	109-11
500.00	122-2	122-2	122-3	122-3	122-4	122-5	122-5	122-6	122-6	122-7
525.00	135-7	135-8	135-8	135-9	135-10	135-10	135-11	136-0	136-0	136-1
550.00	149-11	150-0	150-0	150-1	150-2	150-3	150-3	150-4	150-5	150-6
575.00	165-1	165-2	165-3	165-4	165-5	165-5	165-6	165-7	165-8	165-9
600.00	181-3	181-4	181-5	181-5	181-6	181-7	181-8	181-9	181-10	181-11
625.00	198-3	198-4	198-5	198-6	198-7	198-9	198-10	198-11	199-0	199-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	29-0	29-0	29-1	29-1	29-1	29-1	29-1	29-1	29-1	29-1
275.00	35-3	35-3	35-3	35-3	35-4	35-4	35-4	35-4	35-4	35-4
300.00	42-1	42-1	42-2	42-2	42-2	42-2	42-2	42-3	42-3	42-3
325.00	49-8	49-8	49-8	49-8	49-9	49-9	49-9	49-9	49-9	49-9
350.00	57-10	57-10	57-11	57-11	57-11	57-11	58-0	58-0	58-0	58-0
375.00	66-9	66-9	66-9	66-10	66-10	66-10	66-11	66-11	66-11	66-11
400.00	76-4	76-4	76-5	76-5	76-5	76-6	76-6	76-6	76-7	76-7
425.00	86-8	86-8	86-9	86-9	86-9	86-10	86-10	86-11	86-11	86-11
450.00	97-9	97-9	97-10	97-10	97-11	97-11	98-0	98-0	98-0	98-1
475.00	109-7	109-7	109-8	109-9	109-9	109-10	109-10	109-11	109-11	109-11
500.00	122-3	122-3	122-4	122-5	122-5	122-6	122-6	122-7	122-7	122-8
525.00	135-9	135-9	135-10	135-11	135-11	136-0	136-1	136-1	136-2	136-2
550.00	150-0	150-1	150-2	150-3	150-3	150-4	150-5	150-6	150-6	150-7
575.00	165-3	165-4	165-5	165-6	165-6	165-7	165-8	165-9	165-9	165-10
600.00	181-5	181-6	181-6	181-7	181-8	181-9	181-10	181-11	182-0	182-0
625.00	198-6	198-7	198-8	198-9	198-10	198-11	199-0	199-1	199-1	199-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.64

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	2.128	2.74	972	2.67	1000*
20	0	0	0	1.12	2.37	591	2.26	621
30	0	0	0	1.12	2.45	573	2.34	600
40	0	0	0	1.12	2.53	556	2.41	582
50	0	0	0	1.12	2.6	540	2.49	565
60	0	0	0	1.12	2.67	526	2.56	549
70	0	0	0	1.12	2.74	512	2.63	534
80	0	0	0	1.12	2.81	500	2.7	520
90	0	0	0	1.12	2.88	488	2.77	508
100	0	0	0	1.12	2.95	477	2.83	496
110	0	0	0	1.12	3.01	467	2.9	485
120	0	0	0	1.12	3.07	457	2.96	474
130	0	0	0	1.12	3.12	451	3.03	464
167	0	0	0	1.12	3.26	431	3.25	433
212	0	0	0	1.12	3.43	410	3.41	412

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	2.128	10.85	992	10.76	1000*
20	0	0	0	1.12	10.46	541	10.35	547
30	0	0	0	1.12	10.54	537	10.42	543
40	0	0	0	1.12	10.62	533	10.5	539
50	0	0	0	1.12	10.69	530	10.57	536
60	0	0	0	1.12	10.77	526	10.65	532
70	0	0	0	1.12	10.84	523	10.72	528
80	0	0	0	1.12	10.92	519	10.79	525
90	0	0	0	1.12	10.99	516	10.87	521
100	0	0	0	1.12	11.06	512	10.94	518
110	0	0	0	1.12	11.14	509	11.01	515
120	0	0	0	1.12	11.21	506	11.08	512
130	0	0	0	1.12	11.28	503	11.15	508
167	0	0	0	1.12	11.46	495	11.41	497
212	0	0	0	1.12	11.66	487	11.65	487

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.65

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	2.128	24.67	997	24.58	1000*
20	0	0	0	1.12	24.28	533	24.17	535
30	0	0	0	1.12	24.36	531	24.24	533
40	0	0	0	1.12	24.43	529	24.32	532
50	0	0	0	1.12	24.51	528	24.39	530
60	0	0	0	1.12	24.59	526	24.47	529
70	0	0	0	1.12	24.66	525	24.54	527
80	0	0	0	1.12	24.74	523	24.61	526
90	0	0	0	1.12	24.81	522	24.69	524
100	0	0	0	1.12	24.89	520	24.76	523
110	0	0	0	1.12	24.96	519	24.83	521
120	0	0	0	1.12	25.03	517	24.91	520
130	0	0	0	1.12	25.11	516	24.98	518
167	0	0	0	1.12	25.3	512	25.25	513
212	0	0	0	1.12	25.52	508	25.51	508

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	2.128	44.77	998	44.69	1000*
20	0	0	0	1.12	44.39	530	44.27	531
30	0	0	0	1.12	44.46	529	44.35	530
40	0	0	0	1.12	44.54	528	44.42	529
50	0	0	0	1.12	44.62	527	44.5	528
60	0	0	0	1.12	44.69	526	44.57	528
70	0	0	0	1.12	44.77	526	44.64	527
80	0	0	0	1.12	44.84	525	44.72	526
90	0	0	0	1.12	44.92	524	44.79	525
100	0	0	0	1.12	44.99	523	44.87	524
110	0	0	0	1.12	45.07	522	44.94	524
120	0	0	0	1.12	45.14	522	45.01	523
130	0	0	0	1.12	45.22	521	45.09	522
167	0	0	0	1.12	45.42	519	45.36	519
212	0	0	0	1.12	45.64	516	45.63	517

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.66

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	2.128	72.13	999	72.05	1000*
20	0	0	0	1.12	71.75	528	71.64	529
30	0	0	0	1.12	71.83	528	71.71	528
40	0	0	0	1.12	71.9	527	71.78	528
50	0	0	0	1.12	71.98	527	71.86	528
60	0	0	0	1.12	72.05	526	71.93	527
70	0	0	0	1.12	72.13	526	72.01	527
80	0	0	0	1.12	72.2	525	72.08	526
90	0	0	0	1.12	72.28	525	72.15	526
100	0	0	0	1.12	72.35	525	72.23	525
110	0	0	0	1.12	72.43	524	72.3	525
120	0	0	0	1.12	72.5	524	72.37	524
130	0	0	0	1.12	72.58	523	72.45	524
167	0	0	0	1.12	72.78	522	72.72	522
212	0	0	0	1.12	73.01	521	72.99	521

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.67

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-8
100.00	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9	2-10	2-11
125.00	3-6	3-8	3-9	3-11	4-0	4-1	4-3	4-4	4-5	4-6
150.00	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-5	6-6
175.00	6-11	7-2	7-5	7-8	7-10	8-1	8-3	8-6	8-8	8-11
200.00	9-1	9-4	9-8	10-0	10-3	10-7	10-10	11-1	11-4	11-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-7	1-8	1-8
100.00	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0
125.00	3-9	3-10	3-11	4-1	4-2	4-3	4-5	4-6	4-7	4-8
150.00	5-4	5-6	5-8	5-10	6-0	6-2	6-4	6-6	6-8	6-9
175.00	7-3	7-6	7-9	8-0	8-2	8-5	8-8	8-10	9-1	9-3
200.00	9-6	9-10	10-2	10-5	10-9	11-0	11-3	11-7	11-10	12-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.68

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-7	2-7	2-7	2-8	2-8	2-8	2-8	2-9	2-9	2-9
125.00	4-0	4-1	4-1	4-1	4-2	4-2	4-2	4-3	4-3	4-3
150.00	5-10	5-10	5-11	5-11	6-0	6-0	6-1	6-1	6-2	6-2
175.00	7-11	8-0	8-0	8-1	8-2	8-2	8-3	8-4	8-4	8-5
200.00	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-10	10-11	11-0
225.00	13-1	13-2	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-11
250.00	16-2	16-4	16-5	16-7	16-8	16-9	16-11	17-0	17-2	17-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-7	2-8	2-8	2-8	2-8	2-8	2-9	2-9	2-9	2-9
125.00	4-1	4-1	4-2	4-2	4-2	4-3	4-3	4-3	4-4	4-4
150.00	5-11	5-11	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3
175.00	8-0	8-1	8-1	8-2	8-3	8-4	8-4	8-5	8-6	8-6
200.00	10-6	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2
225.00	13-3	13-4	13-5	13-7	13-8	13-9	13-10	13-11	14-0	14-1
250.00	16-5	16-6	16-7	16-9	16-10	17-0	17-1	17-3	17-4	17-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-0	6-0	6-0	6-1	6-1	6-1	6-1	6-2	6-2	6-2
175.00	8-2	8-2	8-3	8-3	8-3	8-4	8-4	8-4	8-5	8-5
200.00	10-8	10-9	10-9	10-9	10-10	10-10	10-11	10-11	10-11	11-0
225.00	13-7	13-7	13-8	13-8	13-9	13-9	13-9	13-10	13-10	13-11
250.00	16-9	16-9	16-10	16-11	16-11	17-0	17-1	17-1	17-2	17-2
275.00	20-3	20-4	20-5	20-6	20-6	20-7	20-8	20-9	20-9	20-10
300.00	24-2	24-3	24-4	24-5	24-6	24-6	24-7	24-8	24-9	24-10
325.00	28-5	28-6	28-7	28-8	28-9	28-10	28-11	29-0	29-1	29-2
350.00	33-0	33-1	33-2	33-4	33-5	33-6	33-7	33-9	33-10	33-11
375.00	37-11	38-1	38-2	38-4	38-5	38-6	38-8	38-9	38-11	39-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-0	6-1	6-1	6-1	6-1	6-1	6-2	6-2	6-2	6-2
175.00	8-3	8-3	8-3	8-4	8-4	8-4	8-4	8-5	8-5	8-5
200.00	10-9	10-9	10-10	10-10	10-10	10-11	10-11	11-0	11-0	11-0
225.00	13-7	13-8	13-8	13-9	13-9	13-10	13-10	13-11	13-11	14-0
250.00	16-10	16-10	16-11	17-0	17-0	17-1	17-2	17-2	17-3	17-3
275.00	20-4	20-5	20-6	20-7	20-8	20-8	20-9	20-10	20-11	20-11
300.00	24-3	24-4	24-5	24-6	24-7	24-8	24-9	24-10	24-11	25-0
325.00	28-6	28-8	28-9	28-10	28-11	29-0	29-1	29-2	29-3	29-4
350.00	33-2	33-3	33-4	33-6	33-7	33-8	33-9	33-11	34-0	34-1
375.00	38-1	38-3	38-4	38-6	38-7	38-9	38-10	39-0	39-1	39-2

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STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.70

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-11	10-11	11-0	11-0	11-0	11-0	11-1	11-1	11-1	11-1
225.00	13-10	13-11	13-11	13-11	13-11	14-0	14-0	14-0	14-0	14-1
250.00	17-2	17-2	17-2	17-3	17-3	17-3	17-4	17-4	17-4	17-5
275.00	20-9	20-9	20-10	20-10	20-11	20-11	20-11	21-0	21-0	21-1
300.00	24-9	24-9	24-10	24-10	24-11	24-11	25-0	25-0	25-1	25-1
325.00	29-1	29-1	29-2	29-3	29-3	29-4	29-4	29-5	29-5	29-6
350.00	33-9	33-10	33-11	33-11	34-0	34-1	34-1	34-2	34-3	34-3
375.00	38-10	38-11	39-0	39-0	39-1	39-2	39-3	39-4	39-4	39-5
400.00	44-3	44-4	44-5	44-6	44-7	44-8	44-9	44-10	44-10	44-11
425.00	50-1	50-2	50-3	50-4	50-5	50-6	50-7	50-8	50-9	50-10
450.00	56-3	56-4	56-6	56-7	56-8	56-9	56-10	56-11	57-0	57-1
475.00	62-10	62-11	63-1	63-2	63-3	63-4	63-6	63-7	63-8	63-10
500.00	69-10	69-11	70-0	70-2	70-3	70-5	70-6	70-8	70-9	70-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-0	11-0	11-0	11-0	11-0	11-1	11-1	11-1	11-1	11-2
225.00	13-11	13-11	13-11	14-0	14-0	14-0	14-0	14-1	14-1	14-1
250.00	17-2	17-2	17-3	17-3	17-3	17-4	17-4	17-4	17-5	17-5
275.00	20-10	20-10	20-11	20-11	20-11	21-0	21-0	21-1	21-1	21-1
300.00	24-10	24-10	24-11	24-11	25-0	25-0	25-1	25-1	25-2	25-2
325.00	29-2	29-2	29-3	29-4	29-4	29-5	29-5	29-6	29-6	29-7
350.00	33-10	33-11	34-0	34-0	34-1	34-2	34-2	34-3	34-4	34-4
375.00	38-11	39-0	39-1	39-2	39-2	39-3	39-4	39-5	39-6	39-6
400.00	44-5	44-6	44-6	44-7	44-8	44-9	44-10	44-11	45-0	45-1
425.00	50-3	50-4	50-5	50-6	50-7	50-8	50-9	50-10	50-11	51-0
450.00	56-5	56-6	56-7	56-8	56-10	56-11	57-0	57-1	57-2	57-3
475.00	63-0	63-1	63-3	63-4	63-5	63-7	63-8	63-9	63-10	64-0
500.00	70-0	70-1	70-3	70-4	70-6	70-7	70-8	70-10	70-11	71-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.71

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	17-7	17-7	17-7	17-7	17-8	17-8	17-8	17-8	17-8	17-9
275.00	21-3	21-4	21-4	21-4	21-4	21-5	21-5	21-5	21-5	21-6
300.00	25-4	25-5	25-5	25-5	25-6	25-6	25-6	25-7	25-7	25-7
325.00	29-10	29-10	29-11	29-11	29-11	30-0	30-0	30-0	30-1	30-1
350.00	34-8	34-8	34-9	34-9	34-9	34-10	34-10	34-11	34-11	34-11
375.00	39-10	39-11	39-11	40-0	40-0	40-1	40-1	40-1	40-2	40-2
400.00	45-5	45-6	45-6	45-7	45-7	45-8	45-8	45-9	45-9	45-10
425.00	51-5	51-5	51-6	51-7	51-7	51-8	51-8	51-9	51-10	51-10
450.00	57-9	57-10	57-10	57-11	58-0	58-0	58-1	58-2	58-3	58-3
475.00	64-6	64-7	64-7	64-8	64-9	64-10	64-11	64-11	65-0	65-1
500.00	71-8	71-9	71-9	71-10	71-11	72-0	72-1	72-2	72-3	72-4
525.00	79-2	79-3	79-4	79-5	79-6	79-7	79-8	79-9	79-10	79-11
550.00	87-2	87-3	87-4	87-5	87-6	87-7	87-8	87-9	87-11	88-0
575.00	95-6	95-8	95-9	95-10	95-11	96-0	96-2	96-3	96-4	96-5
600.00	104-4	104-5	104-7	104-8	104-9	104-11	105-0	105-1	105-3	105-4
625.00	113-7	113-8	113-10	113-11	114-1	114-2	114-3	114-5	114-6	114-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	17-7	17-7	17-8	17-8	17-8	17-8	17-8	17-9	17-9	17-9
275.00	21-4	21-4	21-4	21-5	21-5	21-5	21-5	21-6	21-6	21-6
300.00	25-5	25-5	25-5	25-6	25-6	25-6	25-7	25-7	25-7	25-8
325.00	29-10	29-11	29-11	29-11	30-0	30-0	30-1	30-1	30-1	30-2
350.00	34-8	34-9	34-9	34-10	34-10	34-10	34-11	34-11	35-0	35-0
375.00	39-11	39-11	40-0	40-0	40-1	40-1	40-2	40-2	40-3	40-3
400.00	45-6	45-6	45-7	45-8	45-8	45-9	45-9	45-10	45-10	45-11
425.00	51-6	51-6	51-7	51-8	51-8	51-9	51-9	51-10	51-11	51-11
450.00	57-10	57-11	57-11	58-0	58-1	58-2	58-2	58-3	58-4	58-4
475.00	64-7	64-8	64-9	64-10	64-10	64-11	65-0	65-1	65-2	65-2
500.00	71-9	71-10	71-11	72-0	72-1	72-2	72-2	72-3	72-4	72-5
525.00	79-4	79-5	79-6	79-7	79-8	79-9	79-10	79-11	80-0	80-1
550.00	87-3	87-5	87-6	87-7	87-8	87-9	87-10	87-11	88-0	88-1
575.00	95-8	95-9	95-11	96-0	96-1	96-2	96-4	96-5	96-6	96-7
600.00	104-6	104-7	104-9	104-10	104-11	105-1	105-2	105-3	105-5	105-6
625.00	113-9	113-11	114-0	114-1	114-3	114-4	114-6	114-7	114-9	114-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.72

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	2.128	1.89	1410	1.78	1500*
20	0	0	0	1.12	1.32	1063	1.15	1213
30	0	0	0	1.12	1.42	989	1.24	1130
40	0	0	0	1.12	1.52	924	1.33	1055
50	0	0	0	1.12	1.61	868	1.42	988
60	0	0	0	1.12	1.71	819	1.51	929
70	0	0	0	1.12	1.8	777	1.6	876
80	0	0	0	1.12	1.9	739	1.69	830
90	0	0	0	1.12	1.99	706	1.78	789
100	0	0	0	1.12	2.07	677	1.86	752
110	0	0	0	1.12	2.16	650	1.95	719
120	0	0	0	1.12	2.24	626	2.03	689
130	0	0	0	1.12	2.32	605	2.12	662
167	0	0	0	1.12	2.5	560	2.41	583
212	0	0	0	1.12	2.7	520	2.68	525

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	2.128	7.27	1471	7.13	1500*
20	0	0	0	1.12	6.6	853	6.37	883
30	0	0	0	1.12	6.71	838	6.48	867
40	0	0	0	1.12	6.82	824	6.59	853
50	0	0	0	1.12	6.94	811	6.7	839
60	0	0	0	1.12	7.05	799	6.81	826
70	0	0	0	1.12	7.16	787	6.92	813
80	0	0	0	1.12	7.26	775	7.03	801
90	0	0	0	1.12	7.37	764	7.13	789
100	0	0	0	1.12	7.47	754	7.23	778
110	0	0	0	1.12	7.58	743	7.34	767
120	0	0	0	1.12	7.68	734	7.44	757
130	0	0	0	1.12	7.78	724	7.54	747
167	0	0	0	1.12	8.12	694	7.9	713
212	0	0	0	1.12	8.39	672	8.33	677

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.73

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	2.128	16.29	1487	16.14	1500*
20	0	0	0	1.12	15.6	816	15.37	828
30	0	0	0	1.12	15.72	810	15.49	822
40	0	0	0	1.12	15.83	805	15.6	817
50	0	0	0	1.12	15.94	799	15.71	811
60	0	0	0	1.12	16.06	794	15.82	805
70	0	0	0	1.12	16.17	788	15.93	800
80	0	0	0	1.12	16.28	783	16.04	795
90	0	0	0	1.12	16.39	778	16.14	789
100	0	0	0	1.12	16.5	773	16.25	784
110	0	0	0	1.12	16.61	768	16.36	779
120	0	0	0	1.12	16.72	763	16.47	774
130	0	0	0	1.12	16.82	758	16.57	770
167	0	0	0	1.12	17.22	741	16.96	752
212	0	0	0	1.12	17.54	728	17.43	733

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	2.128	29.11	1493	28.96	1500*
20	0	0	0	1.12	28.42	804	28.19	810
30	0	0	0	1.12	28.54	801	28.3	807
40	0	0	0	1.12	28.65	798	28.42	804
50	0	0	0	1.12	28.76	795	28.53	801
60	0	0	0	1.12	28.88	792	28.64	798
70	0	0	0	1.12	28.99	789	28.75	795
80	0	0	0	1.12	29.1	786	28.86	792
90	0	0	0	1.12	29.21	783	28.97	790
100	0	0	0	1.12	29.33	780	29.08	787
110	0	0	0	1.12	29.44	777	29.19	784
120	0	0	0	1.12	29.55	775	29.29	781
130	0	0	0	1.12	29.66	772	29.4	778
167	0	0	0	1.12	30.06	762	29.8	768
212	0	0	0	1.12	30.42	753	30.28	757

* Design Condition

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DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.74

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	2.128	45.97	1495	45.82	1500*
20	0	0	0	1.12	45.28	798	45.05	802
30	0	0	0	1.12	45.39	797	45.16	800
40	0	0	0	1.12	45.5	795	45.27	799
50	0	0	0	1.12	45.62	793	45.38	797
60	0	0	0	1.12	45.73	791	45.49	795
70	0	0	0	1.12	45.84	789	45.6	793
80	0	0	0	1.12	45.96	787	45.71	791
90	0	0	0	1.12	46.07	786	45.82	790
100	0	0	0	1.12	46.18	784	45.93	788
110	0	0	0	1.12	46.29	782	46.04	786
120	0	0	0	1.12	46.41	780	46.15	784
130	0	0	0	1.12	46.52	779	46.26	783
167	0	0	0	1.12	46.93	772	46.66	776
212	0	0	0	1.12	47.3	766	47.15	769

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.75

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1
100.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
125.00	1-10	1-11	2-1	2-3	2-4	2-6	2-8	2-9	2-11	3-1
150.00	2-7	2-9	3-0	3-2	3-5	3-7	3-10	4-0	4-2	4-5
175.00	3-6	3-10	4-1	4-4	4-7	4-11	5-2	5-5	5-9	6-0
200.00	4-7	5-0	5-4	5-8	6-0	6-5	6-9	7-1	7-6	7-10

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-3
100.00	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-0	2-1	2-2
125.00	2-1	2-3	2-4	2-6	2-8	2-10	3-0	3-1	3-3	3-4
150.00	3-0	3-2	3-5	3-8	3-10	4-1	4-3	4-6	4-8	4-10
175.00	4-0	4-4	4-8	4-11	5-3	5-6	5-10	6-1	6-4	6-7
200.00	5-3	5-8	6-1	6-6	6-10	7-3	7-7	7-11	8-4	8-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.76

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-7	1-7	1-8	1-8	1-8	1-9	1-9	1-9	1-10	1-10
125.00	2-6	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-10	2-10
150.00	3-7	3-8	3-8	3-9	3-10	3-11	3-11	4-0	4-1	4-1
175.00	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-5	5-6	5-7
200.00	6-4	6-6	6-7	6-8	6-10	6-11	7-0	7-2	7-3	7-4
225.00	8-1	8-2	8-4	8-6	8-8	8-9	8-11	9-0	9-2	9-3
250.00	10-0	10-2	10-4	10-6	10-8	10-10	11-0	11-2	11-4	11-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-11
125.00	2-7	2-7	2-8	2-8	2-9	2-10	2-10	2-11	2-11	2-11
150.00	3-9	3-9	3-10	3-11	4-0	4-0	4-1	4-2	4-2	4-3
175.00	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10
200.00	6-7	6-9	6-10	6-11	7-1	7-2	7-3	7-4	7-6	7-7
225.00	8-4	8-6	8-8	8-9	8-11	9-1	9-2	9-4	9-6	9-7
250.00	10-4	10-6	10-8	10-10	11-0	11-2	11-4	11-6	11-8	11-10

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STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-10	3-10	3-11	3-11	3-11	4-0	4-0	4-0	4-1	4-1
175.00	5-3	5-3	5-4	5-4	5-4	5-5	5-5	5-6	5-6	5-7
200.00	6-10	6-10	6-11	7-0	7-0	7-1	7-1	7-2	7-2	7-3
225.00	8-8	8-8	8-9	8-10	8-11	8-11	9-0	9-1	9-2	9-2
250.00	10-8	10-9	10-10	10-11	11-0	11-1	11-1	11-2	11-3	11-4
275.00	12-11	13-0	13-1	13-2	13-3	13-5	13-6	13-7	13-8	13-9
300.00	15-4	15-6	15-7	15-8	15-10	15-11	16-0	16-2	16-3	16-4
325.00	18-1	18-2	18-4	18-5	18-7	18-8	18-10	19-0	19-1	19-3
350.00	20-11	21-1	21-3	21-5	21-7	21-8	21-10	22-0	22-2	22-4
375.00	24-1	24-3	24-5	24-7	24-9	24-11	25-1	25-3	25-5	25-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-11	3-11	3-11	4-0	4-0	4-0	4-1	4-1	4-1	4-2
175.00	5-4	5-4	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-8
200.00	6-11	7-0	7-0	7-1	7-1	7-2	7-3	7-3	7-4	7-4
225.00	8-9	8-10	8-11	8-11	9-0	9-1	9-2	9-2	9-3	9-4
250.00	10-10	10-11	11-0	11-1	11-2	11-3	11-4	11-4	11-5	11-6
275.00	13-1	13-2	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-11
300.00	15-7	15-9	15-10	15-11	16-1	16-2	16-3	16-5	16-6	16-7
325.00	18-4	18-5	18-7	18-9	18-10	19-0	19-1	19-3	19-5	19-6
350.00	21-3	21-5	21-7	21-9	21-11	22-0	22-2	22-4	22-6	22-8
375.00	24-5	24-7	24-9	25-0	25-2	25-4	25-6	25-8	25-10	26-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-0	7-0	7-1	7-1	7-1	7-2	7-2	7-2	7-3	7-3
225.00	8-11	8-11	8-11	9-0	9-0	9-1	9-1	9-1	9-2	9-2
250.00	11-0	11-0	11-1	11-1	11-2	11-2	11-3	11-3	11-4	11-4
275.00	13-3	13-4	13-5	13-5	13-6	13-6	13-7	13-8	13-8	13-9
300.00	15-10	15-11	15-11	16-0	16-1	16-1	16-2	16-3	16-4	16-4
325.00	18-7	18-8	18-9	18-9	18-10	18-11	19-0	19-1	19-2	19-3
350.00	21-7	21-8	21-9	21-10	21-11	22-0	22-1	22-2	22-3	22-4
375.00	24-9	24-10	24-11	25-1	25-2	25-3	25-4	25-5	25-6	25-8
400.00	28-2	28-4	28-5	28-6	28-8	28-9	28-10	29-0	29-1	29-2
425.00	31-10	32-0	32-1	32-3	32-4	32-6	32-7	32-9	32-10	33-0
450.00	35-9	35-11	36-0	36-2	36-4	36-5	36-7	36-9	36-10	37-0
475.00	39-10	40-0	40-2	40-4	40-6	40-8	40-10	41-0	41-1	41-3
500.00	44-3	44-5	44-7	44-9	44-11	45-1	45-3	45-5	45-7	45-9

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-1	7-1	7-2	7-2	7-2	7-3	7-3	7-3	7-4	7-4
225.00	8-11	9-0	9-0	9-1	9-1	9-2	9-2	9-2	9-3	9-3
250.00	11-1	11-1	11-2	11-2	11-3	11-3	11-4	11-4	11-5	11-5
275.00	13-5	13-5	13-6	13-7	13-7	13-8	13-8	13-9	13-10	13-10
300.00	15-11	16-0	16-1	16-2	16-2	16-3	16-4	16-5	16-5	16-6
325.00	18-9	18-10	18-10	18-11	19-0	19-1	19-2	19-3	19-4	19-5
350.00	21-9	21-10	21-11	22-0	22-1	22-2	22-3	22-4	22-5	22-6
375.00	25-0	25-1	25-2	25-3	25-4	25-6	25-7	25-8	25-9	25-10
400.00	28-5	28-6	28-8	28-9	28-11	29-0	29-1	29-3	29-4	29-5
425.00	32-1	32-3	32-4	32-6	32-8	32-9	32-11	33-0	33-2	33-3
450.00	36-0	36-2	36-4	36-6	36-7	36-9	36-11	37-1	37-2	37-4
475.00	40-2	40-4	40-6	40-8	40-10	41-0	41-2	41-4	41-6	41-8
500.00	44-7	44-9	44-11	45-1	45-4	45-6	45-8	45-10	46-0	46-2

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STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.79

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-2	11-2	11-3	11-3	11-3	11-4	11-4	11-4	11-5	11-5
275.00	13-6	13-7	13-7	13-8	13-8	13-8	13-9	13-9	13-9	13-10
300.00	16-1	16-2	16-2	16-3	16-3	16-4	16-4	16-5	16-5	16-5
325.00	18-11	19-0	19-0	19-1	19-1	19-2	19-2	19-3	19-3	19-4
350.00	21-11	22-0	22-1	22-1	22-2	22-3	22-3	22-4	22-5	22-5
375.00	25-3	25-3	25-4	25-5	25-6	25-6	25-7	25-8	25-9	25-9
400.00	28-9	28-9	28-10	28-11	29-0	29-1	29-2	29-3	29-3	29-4
425.00	32-5	32-6	32-7	32-8	32-9	32-10	32-11	33-0	33-1	33-2
450.00	36-5	36-6	36-7	36-8	36-9	36-10	36-11	37-0	37-2	37-3
475.00	40-7	40-9	40-10	40-11	41-0	41-1	41-3	41-4	41-5	41-6
500.00	45-1	45-2	45-3	45-5	45-6	45-7	45-9	45-10	45-11	46-0
525.00	49-9	49-10	50-0	50-1	50-3	50-4	50-5	50-7	50-8	50-10
550.00	54-8	54-9	54-11	55-0	55-2	55-4	55-5	55-7	55-8	55-10
575.00	59-9	59-11	60-1	60-3	60-4	60-6	60-8	60-10	61-0	61-1
600.00	65-2	65-4	65-6	65-8	65-10	66-0	66-2	66-4	66-6	66-7
625.00	70-10	71-0	71-2	71-4	71-6	71-8	71-10	72-0	72-3	72-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-3	11-3	11-3	11-4	11-4	11-4	11-5	11-5	11-5	11-6
275.00	13-7	13-8	13-8	13-8	13-9	13-9	13-10	13-10	13-10	13-11
300.00	16-2	16-3	16-3	16-4	16-4	16-5	16-5	16-6	16-6	16-7
325.00	19-0	19-1	19-1	19-2	19-2	19-3	19-4	19-4	19-5	19-5
350.00	22-1	22-1	22-2	22-3	22-3	22-4	22-5	22-5	22-6	22-7
375.00	25-4	25-5	25-6	25-6	25-7	25-8	25-9	25-9	25-10	25-11
400.00	28-10	28-11	29-0	29-1	29-2	29-3	29-4	29-4	29-5	29-6
425.00	32-7	32-8	32-9	32-10	32-11	33-0	33-1	33-2	33-3	33-4
450.00	36-7	36-8	36-9	36-10	37-0	37-1	37-2	37-3	37-4	37-5
475.00	40-10	40-11	41-0	41-2	41-3	41-4	41-5	41-6	41-8	41-9
500.00	45-3	45-5	45-6	45-7	45-9	45-10	45-11	46-1	46-2	46-4
525.00	50-0	50-1	50-3	50-4	50-6	50-7	50-9	50-10	51-0	51-1
550.00	54-11	55-1	55-2	55-4	55-6	55-7	55-9	55-10	56-0	56-2
575.00	60-1	60-3	60-5	60-6	60-8	60-10	61-0	61-2	61-4	61-5
600.00	65-6	65-8	65-10	66-0	66-2	66-4	66-6	66-8	66-10	67-0
625.00	71-2	71-4	71-6	71-9	71-11	72-1	72-3	72-5	72-7	72-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.80

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	2.128	1.47	1805	1.33	2000*
20	0	0	0	1.12	0.84	1665	0.72	1957
30	0	0	0	1.12	0.92	1518	0.77	1827
40	0	0	0	1.12	1.01	1385	0.82	1701
50	0	0	0	1.12	1.1	1268	0.89	1580
60	0	0	0	1.12	1.2	1166	0.96	1465
70	0	0	0	1.12	1.3	1077	1.03	1358
80	0	0	0	1.12	1.4	1001	1.11	1260
90	0	0	0	1.12	1.5	934	1.2	1171
100	0	0	0	1.12	1.6	877	1.28	1090
110	0	0	0	1.12	1.69	827	1.38	1019
120	0	0	0	1.12	1.79	784	1.47	956
130	0	0	0	1.12	1.88	745	1.56	899
167	0	0	0	1.12	2.09	670	1.89	742
212	0	0	0	1.12	2.3	610	2.26	621

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	2.128	5.53	1930	5.33	2000*
20	0	0	0	1.12	4.55	1232	4.2	1337
30	0	0	0	1.12	4.7	1194	4.33	1294
40	0	0	0	1.12	4.84	1159	4.47	1255
50	0	0	0	1.12	4.98	1126	4.61	1218
60	0	0	0	1.12	5.12	1096	4.74	1183
70	0	0	0	1.12	5.26	1067	4.88	1151
80	0	0	0	1.12	5.4	1041	5.01	1121
90	0	0	0	1.12	5.53	1016	5.14	1092
100	0	0	0	1.12	5.66	993	5.27	1066
110	0	0	0	1.12	5.79	971	5.4	1041
120	0	0	0	1.12	5.91	950	5.52	1017
130	0	0	0	1.12	6.04	931	5.65	995
167	0	0	0	1.12	6.48	867	6.1	922
212	0	0	0	1.12	6.84	823	6.61	850

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.81

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	2.128	12.25	1966	12.05	2000*
20	0	0	0	1.12	11.21	1130	10.83	1170
30	0	0	0	1.12	11.36	1115	10.97	1154
40	0	0	0	1.12	11.52	1101	11.12	1139
50	0	0	0	1.12	11.66	1087	11.27	1125
60	0	0	0	1.12	11.81	1073	11.41	1111
70	0	0	0	1.12	11.96	1060	11.55	1097
80	0	0	0	1.12	12.1	1048	11.69	1084
90	0	0	0	1.12	12.24	1036	11.83	1071
100	0	0	0	1.12	12.39	1024	11.97	1059
110	0	0	0	1.12	12.53	1013	12.11	1047
120	0	0	0	1.12	12.66	1002	12.25	1035
130	0	0	0	1.12	12.8	991	12.39	1024
167	0	0	0	1.12	13.3	955	12.88	985
212	0	0	0	1.12	13.81	920	13.47	943

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	2.128	21.74	1981	21.52	2000*
20	0	0	0	1.12	20.68	1095	20.29	1116
30	0	0	0	1.12	20.83	1087	20.43	1108
40	0	0	0	1.12	20.98	1079	20.58	1100
50	0	0	0	1.12	21.13	1072	20.73	1092
60	0	0	0	1.12	21.28	1065	20.87	1085
70	0	0	0	1.12	21.43	1057	21.02	1077
80	0	0	0	1.12	21.58	1050	21.16	1070
90	0	0	0	1.12	21.72	1043	21.31	1063
100	0	0	0	1.12	21.87	1037	21.45	1056
110	0	0	0	1.12	22.01	1030	21.59	1049
120	0	0	0	1.12	22.16	1023	21.73	1043
130	0	0	0	1.12	22.3	1017	21.88	1036
167	0	0	0	1.12	22.83	994	22.39	1013
212	0	0	0	1.12	23.42	969	23.01	986

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.82

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	2.128	34.07	1988	33.86	2000*
20	0	0	0	1.12	33	1079	32.61	1092
30	0	0	0	1.12	33.15	1074	32.76	1087
40	0	0	0	1.12	33.31	1070	32.91	1082
50	0	0	0	1.12	33.46	1065	33.05	1077
60	0	0	0	1.12	33.61	1060	33.2	1073
70	0	0	0	1.12	33.76	1056	33.35	1068
80	0	0	0	1.12	33.91	1051	33.49	1064
90	0	0	0	1.12	34.06	1047	33.64	1059
100	0	0	0	1.12	34.2	1042	33.78	1055
110	0	0	0	1.12	34.35	1038	33.93	1051
120	0	0	0	1.12	34.5	1034	34.07	1046
130	0	0	0	1.12	34.64	1030	34.21	1042
167	0	0	0	1.12	35.18	1015	34.74	1027
212	0	0	0	1.12	35.82	997	35.38	1009

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.83

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-5	0-6	0-6	0-6	0-7	0-8	0-8	0-9	0-9
100.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-5
125.00	1-1	1-2	1-3	1-5	1-6	1-7	1-9	1-10	2-0	2-2
150.00	1-7	1-9	1-10	2-0	2-2	2-4	2-6	2-8	2-11	3-1
175.00	2-2	2-4	2-6	2-9	2-11	3-2	3-5	3-8	3-11	4-3
200.00	2-10	3-1	3-4	3-7	3-10	4-2	4-5	4-9	5-2	5-6

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11
100.00	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-7	1-8
125.00	1-4	1-5	1-7	1-9	1-11	2-0	2-2	2-4	2-6	2-8
150.00	1-11	2-1	2-3	2-6	2-8	2-11	3-2	3-5	3-7	3-10
175.00	2-7	2-10	3-1	3-5	3-8	4-0	4-3	4-7	4-11	5-2
200.00	3-4	3-8	4-1	4-5	4-10	5-2	5-7	6-0	6-5	6-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.84

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-1	1-1	1-2	1-2	1-3	1-3	1-3	1-4	1-4
125.00	1-8	1-8	1-9	1-10	1-10	1-11	1-11	2-0	2-1	2-1
150.00	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-0
175.00	3-3	3-4	3-5	3-6	3-8	3-9	3-10	3-11	4-0	4-2
200.00	4-2	4-4	4-6	4-7	4-9	4-11	5-0	5-2	5-3	5-5
225.00	5-4	5-6	5-8	5-10	6-0	6-2	6-4	6-6	6-8	6-10
250.00	6-7	6-9	7-0	7-2	7-5	7-7	7-10	8-0	8-3	8-5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-5	1-5	1-5
125.00	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-3
150.00	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-3
175.00	3-6	3-7	3-8	3-10	3-11	4-0	4-2	4-3	4-4	4-5
200.00	4-7	4-8	4-10	5-0	5-1	5-3	5-5	5-6	5-8	5-9
225.00	5-9	5-11	6-2	6-4	6-6	6-8	6-10	7-0	7-2	7-4
250.00	7-1	7-4	7-7	7-10	8-0	8-3	8-5	8-8	8-10	9-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.85

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-8	2-9	2-9	2-10	2-10	2-11	2-11	2-11	3-0	3-0
175.00	3-8	3-9	3-9	3-10	3-11	3-11	4-0	4-0	4-1	4-1
200.00	4-10	4-10	4-11	5-0	5-1	5-2	5-2	5-3	5-4	5-5
225.00	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-10
250.00	7-6	7-7	7-9	7-10	7-11	8-0	8-1	8-3	8-4	8-5
275.00	9-1	9-3	9-4	9-6	9-7	9-8	9-10	9-11	10-1	10-2
300.00	10-10	11-0	11-1	11-3	11-5	11-7	11-8	11-10	12-0	12-1
325.00	12-9	12-11	13-1	13-3	13-5	13-7	13-9	13-11	14-1	14-3
350.00	14-9	14-11	15-2	15-4	15-6	15-9	15-11	16-1	16-4	16-6
375.00	16-11	17-2	17-5	17-7	17-10	18-1	18-4	18-6	18-9	18-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-10	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2
175.00	3-10	3-10	3-11	4-0	4-0	4-1	4-1	4-2	4-2	4-3
200.00	5-0	5-1	5-1	5-2	5-3	5-4	5-4	5-5	5-6	5-7
225.00	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-0
250.00	7-9	7-11	8-0	8-1	8-2	8-4	8-5	8-6	8-7	8-8
275.00	9-5	9-7	9-8	9-10	9-11	10-1	10-2	10-3	10-5	10-6
300.00	11-3	11-4	11-6	11-8	11-10	11-11	12-1	12-3	12-5	12-6
325.00	13-2	13-4	13-6	13-8	13-10	14-0	14-2	14-4	14-6	14-8
350.00	15-3	15-6	15-8	15-11	16-1	16-3	16-6	16-8	16-10	17-1
375.00	17-6	17-9	18-0	18-3	18-6	18-8	18-11	19-2	19-5	19-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.86

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-1	5-1	5-2	5-2	5-2	5-3	5-3	5-4	5-4	5-5
225.00	6-5	6-5	6-6	6-7	6-7	6-8	6-8	6-9	6-9	6-10
250.00	7-11	8-0	8-0	8-1	8-2	8-2	8-3	8-4	8-4	8-5
275.00	9-7	9-8	9-9	9-9	9-10	9-11	10-0	10-1	10-1	10-2
300.00	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2
325.00	13-5	13-6	13-7	13-8	13-9	13-10	13-11	14-1	14-2	14-3
350.00	15-6	15-8	15-9	15-10	16-0	16-1	16-2	16-4	16-5	16-6
375.00	17-10	17-11	18-1	18-3	18-4	18-6	18-7	18-9	18-10	19-0
400.00	20-3	20-5	20-7	20-9	20-10	21-0	21-2	21-4	21-5	21-7
425.00	22-11	23-1	23-3	23-5	23-7	23-9	23-11	24-1	24-3	24-5
450.00	25-8	25-11	26-1	26-3	26-5	26-8	26-10	27-0	27-2	27-4
475.00	28-8	28-10	29-1	29-3	29-6	29-8	29-11	30-1	30-4	30-6
500.00	31-9	32-0	32-3	32-5	32-8	32-11	33-2	33-4	33-7	33-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-2	5-2	5-3	5-3	5-4	5-4	5-5	5-5	5-5	5-6
225.00	6-6	6-7	6-7	6-8	6-9	6-9	6-10	6-10	6-11	6-11
250.00	8-1	8-1	8-2	8-3	8-4	8-4	8-5	8-6	8-6	8-7
275.00	9-9	9-10	9-11	10-0	10-0	10-1	10-2	10-3	10-4	10-5
300.00	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-4
325.00	13-8	13-9	13-10	13-11	14-0	14-2	14-3	14-4	14-5	14-6
350.00	15-10	15-11	16-1	16-2	16-3	16-5	16-6	16-7	16-9	16-10
375.00	18-2	18-4	18-5	18-7	18-8	18-10	18-11	19-1	19-3	19-4
400.00	20-8	20-10	21-0	21-2	21-3	21-5	21-7	21-9	21-10	22-0
425.00	23-4	23-6	23-8	23-10	24-0	24-2	24-4	24-6	24-8	24-10
450.00	26-2	26-5	26-7	26-9	27-0	27-2	27-4	27-6	27-8	27-11
475.00	29-2	29-5	29-8	29-10	30-1	30-3	30-6	30-8	30-11	31-1
500.00	32-4	32-7	32-10	33-1	33-4	33-7	33-9	34-0	34-3	34-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.87

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-1	8-2	8-2	8-3	8-3	8-4	8-4	8-4	8-5	8-5
275.00	9-10	9-10	9-11	10-0	10-0	10-1	10-1	10-2	10-2	10-3
300.00	11-8	11-9	11-10	11-10	11-11	12-0	12-0	12-1	12-1	12-2
325.00	13-9	13-10	13-10	13-11	14-0	14-0	14-1	14-2	14-3	14-3
350.00	15-11	16-0	16-1	16-2	16-3	16-3	16-4	16-5	16-6	16-7
375.00	18-4	18-5	18-6	18-7	18-8	18-9	18-9	18-10	18-11	19-0
400.00	20-10	20-11	21-0	21-1	21-2	21-4	21-5	21-6	21-7	21-8
425.00	23-6	23-8	23-9	23-10	23-11	24-1	24-2	24-3	24-4	24-6
450.00	26-5	26-6	26-8	26-9	26-10	27-0	27-1	27-3	27-4	27-5
475.00	29-5	29-7	29-8	29-10	29-11	30-1	30-3	30-4	30-6	30-7
500.00	32-7	32-9	32-11	33-1	33-2	33-4	33-6	33-8	33-9	33-11
525.00	36-0	36-2	36-4	36-6	36-7	36-9	36-11	37-1	37-3	37-5
550.00	39-6	39-8	39-10	40-1	40-3	40-5	40-7	40-9	40-11	41-1
575.00	43-2	43-5	43-7	43-10	44-0	44-2	44-5	44-7	44-9	44-11
600.00	47-1	47-3	47-6	47-9	47-11	48-2	48-4	48-7	48-9	49-0
625.00	51-1	51-4	51-7	51-10	52-1	52-3	52-6	52-9	53-0	53-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-3	8-3	8-3	8-4	8-4	8-5	8-5	8-6	8-6	8-7
275.00	9-11	10-0	10-0	10-1	10-1	10-2	10-3	10-3	10-4	10-4
300.00	11-10	11-11	11-11	12-0	12-1	12-1	12-2	12-3	12-3	12-4
325.00	13-11	14-0	14-0	14-1	14-2	14-3	14-3	14-4	14-5	14-6
350.00	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8	16-8	16-9
375.00	18-6	18-7	18-8	18-9	18-10	18-11	19-0	19-1	19-2	19-3
400.00	21-1	21-2	21-3	21-4	21-6	21-7	21-8	21-9	21-10	21-11
425.00	23-10	23-11	24-0	24-2	24-3	24-4	24-5	24-7	24-8	24-9
450.00	26-8	26-10	26-11	27-1	27-2	27-4	27-5	27-7	27-8	27-9
475.00	29-9	29-11	30-0	30-2	30-4	30-5	30-7	30-9	30-10	31-0
500.00	33-0	33-2	33-4	33-5	33-7	33-9	33-11	34-1	34-2	34-4
525.00	36-5	36-7	36-9	36-11	37-1	37-3	37-5	37-7	37-9	37-11
550.00	40-0	40-2	40-4	40-6	40-9	40-11	41-1	41-3	41-5	41-7
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600.00	47-8	47-10	48-1	48-4	48-6	48-9	48-11	49-2	49-5	49-7
625.00	51-9	52-0	52-3	52-5	52-8	52-11	53-2	53-5	53-8	53-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.88

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	2.128	2.73	977	2.67	1000*
0	0	0	0	1.12	2.43	576	2.34	601
30	0	0	0	1.12	2.66	528	2.56	549
40	0	0	0	1.12	2.73	515	2.63	534
50	0	0	0	1.12	2.8	502	2.7	521
60	0	0	0	1.12	2.87	490	2.76	508
70	0	0	0	1.12	2.93	479	2.83	496
80	0	0	0	1.12	3	469	2.9	485
90	0	0	0	1.12	3.06	459	2.96	475
100	0	0	0	1.12	3.13	450	3.02	465
110	0	0	0	1.12	3.19	441	3.09	455
120	0	0	0	1.12	3.25	433	3.15	447
130	0	0	0	1.12	3.28	428	3.21	438
167	0	0	0	1.12	3.42	411	3.41	413
212	0	0	0	1.12	3.58	393	3.57	394

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	2.128	10.84	993	10.76	1000*
0	0	0	0	1.12	10.53	538	10.42	543
30	0	0	0	1.12	10.76	527	10.65	532
40	0	0	0	1.12	10.83	523	10.72	528
50	0	0	0	1.12	10.91	520	10.79	525
60	0	0	0	1.12	10.98	516	10.86	522
70	0	0	0	1.12	11.05	513	10.94	518
80	0	0	0	1.12	11.13	510	11.01	515
90	0	0	0	1.12	11.2	506	11.08	512
100	0	0	0	1.12	11.27	503	11.15	508
110	0	0	0	1.12	11.34	500	11.22	505
120	0	0	0	1.12	11.41	497	11.29	502
130	0	0	0	1.12	11.48	494	11.36	499
167	0	0	0	1.12	11.66	487	11.62	489
212	0	0	0	1.12	11.86	479	11.84	479

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.89

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	2.128	24.66	997	24.58	1000*
0	0	0	0	1.12	24.35	531	24.24	533
30	0	0	0	1.12	24.58	526	24.46	529
40	0	0	0	1.12	24.65	525	24.54	527
50	0	0	0	1.12	24.73	523	24.61	526
60	0	0	0	1.12	24.8	522	24.68	524
70	0	0	0	1.12	24.88	520	24.76	523
80	0	0	0	1.12	24.95	519	24.83	521
90	0	0	0	1.12	25.03	518	24.9	520
100	0	0	0	1.12	25.1	516	24.98	518
110	0	0	0	1.12	25.17	515	25.05	517
120	0	0	0	1.12	25.25	513	25.12	516
130	0	0	0	1.12	25.32	512	25.19	514
167	0	0	0	1.12	25.51	508	25.46	509
212	0	0	0	1.12	25.73	504	25.71	504

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	2.128	44.76	998	44.69	1000*
0	0	0	0	1.12	44.46	529	44.35	530
30	0	0	0	1.12	44.68	526	44.57	528
40	0	0	0	1.12	44.76	526	44.64	527
50	0	0	0	1.12	44.83	525	44.72	526
60	0	0	0	1.12	44.91	524	44.79	525
70	0	0	0	1.12	44.98	523	44.86	525
80	0	0	0	1.12	45.06	522	44.94	524
90	0	0	0	1.12	45.13	522	45.01	523
100	0	0	0	1.12	45.21	521	45.08	522
110	0	0	0	1.12	45.28	520	45.16	521
120	0	0	0	1.12	45.36	519	45.23	521
130	0	0	0	1.12	45.43	519	45.3	520
167	0	0	0	1.12	45.63	517	45.58	517
212	0	0	0	1.12	45.85	514	45.84	514

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.90

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	2.128	72.12	999	72.05	1000*
0	0	0	0	1.12	71.82	528	71.71	528
30	0	0	0	1.12	72.04	526	71.93	527
40	0	0	0	1.12	72.12	526	72	527
50	0	0	0	1.12	72.19	525	72.08	526
60	0	0	0	1.12	72.27	525	72.15	526
70	0	0	0	1.12	72.35	525	72.22	525
80	0	0	0	1.12	72.42	524	72.3	525
90	0	0	0	1.12	72.5	524	72.37	524
100	0	0	0	1.12	72.57	523	72.45	524
110	0	0	0	1.12	72.65	523	72.52	524
120	0	0	0	1.12	72.72	522	72.59	523
130	0	0	0	1.12	72.8	522	72.67	523
167	0	0	0	1.12	73	521	72.94	521
212	0	0	0	1.12	73.22	519	73.21	519

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.91

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-5	1-5	1-6	1-6	1-7	1-7	1-8	1-8	1-8	1-9
100.00	2-6	2-7	2-8	2-8	2-9	2-10	2-11	3-0	3-0	3-1
125.00	3-11	4-0	4-1	4-3	4-4	4-5	4-6	4-8	4-9	4-10
150.00	5-7	5-9	5-11	6-1	6-3	6-5	6-6	6-8	6-10	6-11
175.00	7-7	7-10	8-1	8-3	8-6	8-8	8-11	9-1	9-3	9-6
200.00	10-0	10-3	10-6	10-10	11-1	11-4	11-7	11-11	12-2	12-5

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-5	1-6	1-6	1-7	1-7	1-8	1-8	1-9	1-9	1-10
100.00	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-1	3-2	3-2
125.00	4-0	4-2	4-3	4-4	4-6	4-7	4-8	4-9	4-11	5-0
150.00	5-10	6-0	6-2	6-4	6-5	6-7	6-9	6-11	7-1	7-2
175.00	7-11	8-2	8-4	8-7	8-10	9-0	9-2	9-5	9-7	9-9
200.00	10-4	10-8	10-11	11-3	11-6	11-9	12-0	12-4	12-7	12-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.92

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-8	2-8	2-8	2-8	2-8	2-9	2-9	2-9	2-9	2-10
125.00	4-1	4-2	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-4
150.00	5-11	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4
175.00	8-1	8-2	8-2	8-3	8-4	8-4	8-5	8-6	8-6	8-7
200.00	10-7	10-8	10-9	10-10	10-10	10-11	11-0	11-1	11-2	11-3
225.00	13-5	13-6	13-7	13-8	13-9	13-10	13-11	14-0	14-2	14-3
250.00	16-7	16-8	16-9	16-11	17-0	17-2	17-3	17-4	17-6	17-7

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-8	2-8	2-8	2-9	2-9	2-9	2-9	2-9	2-10	2-10
125.00	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-4	4-5	4-5
150.00	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4
175.00	8-2	8-3	8-3	8-4	8-5	8-5	8-6	8-7	8-7	8-8
200.00	10-8	10-9	10-10	10-11	11-0	11-1	11-2	11-2	11-3	11-4
225.00	13-6	13-8	13-9	13-10	13-11	14-0	14-1	14-2	14-3	14-4
250.00	16-9	16-10	17-0	17-1	17-2	17-4	17-5	17-6	17-8	17-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.93

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-1	6-1	6-1	6-1	6-2	6-2	6-2	6-2	6-2	6-3
175.00	8-3	8-3	8-4	8-4	8-4	8-5	8-5	8-5	8-5	8-6
200.00	10-9	10-10	10-10	10-11	10-11	10-11	11-0	11-0	11-1	11-1
225.00	13-8	13-8	13-9	13-9	13-10	13-10	13-11	13-11	14-0	14-0
250.00	16-11	16-11	17-0	17-1	17-1	17-2	17-2	17-3	17-4	17-4
275.00	20-6	20-6	20-7	20-8	20-9	20-9	20-10	20-11	20-11	21-0
300.00	24-5	24-6	24-6	24-7	24-8	24-9	24-10	24-11	25-0	25-1
325.00	28-8	28-9	28-10	28-11	29-0	29-1	29-2	29-3	29-4	29-5
350.00	33-4	33-5	33-6	33-7	33-8	33-10	33-11	34-0	34-1	34-2
375.00	38-4	38-5	38-6	38-8	38-9	38-11	39-0	39-1	39-3	39-4

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-1	6-1	6-1	6-2	6-2	6-2	6-2	6-3	6-3	6-3
175.00	8-3	8-4	8-4	8-4	8-5	8-5	8-5	8-6	8-6	8-6
200.00	10-10	10-10	10-11	10-11	11-0	11-0	11-0	11-1	11-1	11-2
225.00	13-9	13-9	13-10	13-10	13-11	13-11	14-0	14-0	14-1	14-1
250.00	17-0	17-0	17-1	17-2	17-2	17-3	17-3	17-4	17-5	17-5
275.00	20-7	20-7	20-8	20-9	20-10	20-10	20-11	21-0	21-1	21-1
300.00	24-6	24-7	24-8	24-9	24-10	24-11	24-11	25-0	25-1	25-2
325.00	28-10	28-11	29-0	29-1	29-2	29-3	29-4	29-5	29-6	29-7
350.00	33-5	33-7	33-8	33-9	33-10	34-0	34-1	34-2	34-3	34-5
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.94

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-0	11-0	11-0	11-1	11-1	11-1	11-1	11-1	11-2	11-2
225.00	13-11	13-11	14-0	14-0	14-0	14-0	14-1	14-1	14-1	14-2
250.00	17-3	17-3	17-3	17-4	17-4	17-4	17-5	17-5	17-5	17-6
275.00	20-10	20-11	20-11	20-11	21-0	21-0	21-1	21-1	21-2	21-2
300.00	24-10	24-11	24-11	25-0	25-0	25-1	25-1	25-2	25-2	25-3
325.00	29-3	29-3	29-4	29-4	29-5	29-5	29-6	29-7	29-7	29-8
350.00	33-11	34-0	34-1	34-1	34-2	34-3	34-3	34-4	34-5	34-5
375.00	39-0	39-1	39-2	39-3	39-3	39-4	39-5	39-6	39-7	39-7
400.00	44-6	44-7	44-8	44-9	44-9	44-10	44-11	45-0	45-1	45-2
425.00	50-4	50-5	50-6	50-7	50-8	50-9	50-10	50-11	51-0	51-1
450.00	56-7	56-8	56-9	56-10	56-11	57-0	57-1	57-3	57-4	57-5
475.00	63-2	63-3	63-4	63-6	63-7	63-8	63-10	63-11	64-0	64-1
500.00	70-2	70-3	70-5	70-6	70-7	70-9	70-10	71-0	71-1	71-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-0	11-0	11-1	11-1	11-1	11-1	11-2	11-2	11-2	11-2
225.00	14-0	14-0	14-0	14-0	14-1	14-1	14-1	14-1	14-2	14-2
250.00	17-3	17-3	17-4	17-4	17-4	17-5	17-5	17-5	17-6	17-6
275.00	20-11	20-11	21-0	21-0	21-1	21-1	21-1	21-2	21-2	21-3
300.00	24-11	24-11	25-0	25-0	25-1	25-1	25-2	25-2	25-3	25-3
325.00	29-3	29-4	29-5	29-5	29-6	29-6	29-7	29-8	29-8	29-9
350.00	34-0	34-1	34-2	34-2	34-3	34-4	34-4	34-5	34-6	34-6
375.00	39-2	39-2	39-3	39-4	39-5	39-6	39-6	39-7	39-8	39-9
400.00	44-7	44-8	44-9	44-10	44-11	45-0	45-1	45-2	45-3	45-3
425.00	50-6	50-7	50-8	50-9	50-10	50-11	51-0	51-1	51-2	51-3
450.00	56-8	56-10	56-11	57-0	57-1	57-2	57-3	57-4	57-6	57-7
475.00	63-4	63-5	63-6	63-8	63-9	63-10	64-0	64-1	64-2	64-3
500.00	70-4	70-5	70-7	70-8	70-10	70-11	71-1	71-2	71-4	71-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.95

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	17-7	17-8	17-8	17-8	17-8	17-8	17-9	17-9	17-9	17-9
275.00	21-4	21-4	21-5	21-5	21-5	21-5	21-6	21-6	21-6	21-6
300.00	25-5	25-6	25-6	25-6	25-7	25-7	25-7	25-7	25-8	25-8
325.00	29-11	29-11	30-0	30-0	30-0	30-1	30-1	30-1	30-2	30-2
350.00	34-9	34-9	34-10	34-10	34-11	34-11	34-11	35-0	35-0	35-1
375.00	40-0	40-0	40-1	40-1	40-1	40-2	40-2	40-3	40-3	40-4
400.00	45-7	45-7	45-8	45-8	45-9	45-9	45-10	45-11	45-11	46-0
425.00	51-7	51-7	51-8	51-8	51-9	51-10	51-10	51-11	52-0	52-0
450.00	57-11	58-0	58-0	58-1	58-2	58-3	58-3	58-4	58-5	58-5
475.00	64-8	64-9	64-10	64-11	64-11	65-0	65-1	65-2	65-3	65-3
500.00	71-10	71-11	72-0	72-1	72-2	72-3	72-4	72-4	72-5	72-6
525.00	79-5	79-6	79-7	79-8	79-9	79-10	79-11	80-0	80-1	80-2
550.00	87-5	87-6	87-7	87-8	87-9	87-10	88-0	88-1	88-2	88-3
575.00	95-10	95-11	96-0	96-2	96-3	96-4	96-5	96-6	96-8	96-9
600.00	104-8	104-9	104-11	105-0	105-1	105-3	105-4	105-5	105-6	105-8
625.00	113-11	114-1	114-2	114-3	114-5	114-6	114-8	114-9	114-11	115-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	17-8	17-8	17-8	17-8	17-9	17-9	17-9	17-9	17-9	17-10
275.00	21-5	21-5	21-5	21-5	21-6	21-6	21-6	21-6	21-7	21-7
300.00	25-6	25-6	25-6	25-7	25-7	25-7	25-8	25-8	25-8	25-9
325.00	29-11	30-0	30-0	30-1	30-1	30-1	30-2	30-2	30-2	30-3
350.00	34-10	34-10	34-10	34-11	34-11	35-0	35-0	35-1	35-1	35-1
375.00	40-0	40-1	40-1	40-2	40-2	40-3	40-3	40-4	40-4	40-5
400.00	45-8	45-8	45-9	45-9	45-10	45-10	45-11	45-11	46-0	46-1
425.00	51-7	51-8	51-9	51-9	51-10	51-11	51-11	52-0	52-1	52-1
450.00	58-0	58-1	58-2	58-2	58-3	58-4	58-4	58-5	58-6	58-7
475.00	64-9	64-10	64-11	65-0	65-1	65-1	65-2	65-3	65-4	65-5
500.00	72-0	72-1	72-1	72-2	72-3	72-4	72-5	72-6	72-7	72-8
525.00	79-7	79-8	79-9	79-10	79-11	80-0	80-1	80-2	80-3	80-4
550.00	87-7	87-8	87-9	87-10	87-11	88-0	88-1	88-2	88-4	88-5
575.00	96-0	96-1	96-2	96-3	96-5	96-6	96-7	96-8	96-10	96-11
600.00	104-10	104-11	105-1	105-2	105-3	105-5	105-6	105-7	105-9	105-10
625.00	114-1	114-3	114-4	114-6	114-7	114-9	114-10	115-0	115-1	115-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.96

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	2.128	1.86	1435	1.78	1500*
0	0	0	0	1.12	1.38	1019	1.24	1131
30	0	0	0	1.12	1.67	839	1.51	931
40	0	0	0	1.12	1.76	794	1.6	878
50	0	0	0	1.12	1.86	755	1.68	832
60	0	0	0	1.12	1.95	720	1.77	791
70	0	0	0	1.12	2.04	689	1.86	754
80	0	0	0	1.12	2.12	661	1.95	721
90	0	0	0	1.12	2.21	636	2.03	691
100	0	0	0	1.12	2.29	613	2.11	664
110	0	0	0	1.12	2.37	593	2.19	640
120	0	0	0	1.12	2.44	574	2.27	618
130	0	0	0	1.12	2.52	557	2.35	597
167	0	0	0	1.12	2.69	522	2.62	536
212	0	0	0	1.12	2.88	488	2.86	492

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	2.128	7.25	1476	7.13	1500*
0	0	0	0	1.12	6.69	841	6.48	868
30	0	0	0	1.12	7.02	801	6.81	826
40	0	0	0	1.12	7.13	789	6.91	814
50	0	0	0	1.12	7.24	778	7.02	802
60	0	0	0	1.12	7.35	767	7.13	790
70	0	0	0	1.12	7.45	756	7.23	779
80	0	0	0	1.12	7.55	746	7.33	768
90	0	0	0	1.12	7.66	736	7.43	757
100	0	0	0	1.12	7.76	726	7.53	747
110	0	0	0	1.12	7.86	717	7.63	738
120	0	0	0	1.12	7.96	708	7.73	729
130	0	0	0	1.12	8.06	700	7.83	720
167	0	0	0	1.12	8.38	673	8.18	689
212	0	0	0	1.12	8.64	653	8.6	656

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.97

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	2.128	16.27	1488	16.14	1500*
0	0	0	0	1.12	15.7	811	15.48	823
30	0	0	0	1.12	16.04	795	15.81	806
40	0	0	0	1.12	16.15	789	15.92	800
50	0	0	0	1.12	16.26	784	16.03	795
60	0	0	0	1.12	16.37	779	16.14	790
70	0	0	0	1.12	16.48	774	16.25	785
80	0	0	0	1.12	16.59	769	16.35	780
90	0	0	0	1.12	16.7	764	16.46	775
100	0	0	0	1.12	16.81	759	16.57	770
110	0	0	0	1.12	16.91	754	16.67	765
120	0	0	0	1.12	17.02	750	16.78	760
130	0	0	0	1.12	17.13	745	16.88	756
167	0	0	0	1.12	17.51	729	17.27	739
212	0	0	0	1.12	17.82	717	17.72	721

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	2.128	29.1	1493	28.96	1500*
0	0	0	0	1.12	28.52	801	28.3	807
30	0	0	0	1.12	28.86	792	28.63	798
40	0	0	0	1.12	28.97	789	28.74	795
50	0	0	0	1.12	29.09	786	28.85	793
60	0	0	0	1.12	29.2	784	28.96	790
70	0	0	0	1.12	29.31	781	29.07	787
80	0	0	0	1.12	29.42	778	29.18	784
90	0	0	0	1.12	29.53	775	29.29	781
100	0	0	0	1.12	29.64	772	29.4	778
110	0	0	0	1.12	29.75	770	29.5	776
120	0	0	0	1.12	29.86	767	29.61	773
130	0	0	0	1.12	29.97	764	29.72	770
167	0	0	0	1.12	30.37	755	30.12	761
212	0	0	0	1.12	30.72	746	30.59	749

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.98

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Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	2.128	45.95	1496	45.82	1500*
0	0	0	0	1.12	45.37	797	45.15	800
30	0	0	0	1.12	45.72	791	45.49	795
40	0	0	0	1.12	45.83	789	45.6	793
50	0	0	0	1.12	45.94	788	45.71	791
60	0	0	0	1.12	46.05	786	45.82	790
70	0	0	0	1.12	46.17	784	45.93	788
80	0	0	0	1.12	46.28	782	46.04	786
90	0	0	0	1.12	46.39	781	46.15	784
100	0	0	0	1.12	46.5	779	46.25	783
110	0	0	0	1.12	46.61	777	46.36	781
120	0	0	0	1.12	46.73	775	46.47	779
130	0	0	0	1.12	46.84	774	46.58	778
167	0	0	0	1.12	47.24	767	46.98	771
212	0	0	0	1.12	47.61	762	47.47	764

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.99

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3
100.00	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
125.00	2-3	2-4	2-6	2-8	2-9	2-11	3-0	3-2	3-4	3-5
150.00	3-2	3-5	3-7	3-10	4-0	4-2	4-5	4-7	4-9	4-11
175.00	4-4	4-7	4-11	5-2	5-5	5-8	6-0	6-3	6-6	6-9
200.00	5-8	6-0	6-5	6-9	7-1	7-5	7-10	8-2	8-6	8-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4
100.00	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
125.00	2-6	2-7	2-9	2-11	3-1	3-2	3-4	3-5	3-7	3-8
150.00	3-6	3-9	4-0	4-2	4-5	4-7	4-9	5-0	5-2	5-4
175.00	4-10	5-1	5-5	5-8	6-0	6-3	6-6	6-9	7-0	7-3
200.00	6-4	6-8	7-1	7-5	7-10	8-2	8-6	8-10	9-2	9-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.100

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11
125.00	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0
150.00	3-9	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-3	4-3
175.00	5-2	5-3	5-4	5-4	5-5	5-6	5-7	5-8	5-9	5-10
200.00	6-8	6-10	6-11	7-0	7-2	7-3	7-4	7-5	7-6	7-8
225.00	8-6	8-7	8-9	8-11	9-0	9-2	9-3	9-5	9-6	9-8
250.00	10-6	10-8	10-10	11-0	11-2	11-4	11-6	11-8	11-9	11-11

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11	1-11	2-0
125.00	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-1
150.00	3-11	3-11	4-0	4-1	4-2	4-2	4-3	4-4	4-4	4-5
175.00	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0
200.00	6-11	7-0	7-2	7-3	7-4	7-5	7-7	7-8	7-9	7-10
225.00	8-9	8-11	9-0	9-2	9-4	9-5	9-7	9-8	9-10	9-11
250.00	10-10	11-0	11-2	11-4	11-6	11-8	11-10	12-0	12-2	12-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.101

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-11	3-11	4-0	4-0	4-0	4-1	4-1	4-1	4-2	4-2
175.00	5-4	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-7	5-8
200.00	7-0	7-0	7-1	7-1	7-2	7-2	7-3	7-4	7-4	7-5
225.00	8-10	8-11	8-11	9-0	9-1	9-1	9-2	9-3	9-4	9-4
250.00	10-11	11-0	11-1	11-1	11-2	11-3	11-4	11-5	11-6	11-7
275.00	13-2	13-3	13-4	13-6	13-7	13-8	13-9	13-10	13-11	14-0
300.00	15-8	15-10	15-11	16-0	16-2	16-3	16-4	16-6	16-7	16-8
325.00	18-5	18-7	18-8	18-10	18-11	19-1	19-2	19-4	19-5	19-7
350.00	21-5	21-7	21-8	21-10	22-0	22-2	22-4	22-5	22-7	22-9
375.00	24-7	24-9	24-11	25-1	25-3	25-5	25-7	25-9	25-11	26-1

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-0	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-2	4-3
175.00	5-5	5-5	5-6	5-6	5-7	5-7	5-8	5-8	5-8	5-9
200.00	7-1	7-1	7-2	7-3	7-3	7-4	7-4	7-5	7-5	7-6
225.00	8-11	9-0	9-1	9-2	9-2	9-3	9-4	9-5	9-5	9-6
250.00	11-1	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9
275.00	13-4	13-6	13-7	13-8	13-9	13-10	13-11	14-0	14-1	14-2
300.00	15-11	16-0	16-2	16-3	16-4	16-6	16-7	16-8	16-10	16-11
325.00	18-8	18-10	19-0	19-1	19-3	19-4	19-6	19-7	19-9	19-10
350.00	21-8	21-10	22-0	22-2	22-4	22-6	22-7	22-9	22-11	23-1
375.00	24-11	25-1	25-3	25-6	25-8	25-10	26-0	26-2	26-4	26-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.102

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-1	7-1	7-2	7-2	7-2	7-3	7-3	7-3	7-4	7-4
225.00	9-0	9-0	9-1	9-1	9-1	9-2	9-2	9-3	9-3	9-3
250.00	11-1	11-2	11-2	11-3	11-3	11-4	11-4	11-5	11-5	11-6
275.00	13-5	13-6	13-6	13-7	13-8	13-8	13-9	13-10	13-10	13-11
300.00	16-0	16-1	16-1	16-2	16-3	16-4	16-4	16-5	16-6	16-7
325.00	18-9	18-10	18-11	19-0	19-1	19-2	19-3	19-3	19-4	19-5
350.00	21-10	21-11	22-0	22-1	22-2	22-3	22-4	22-5	22-6	22-7
375.00	25-1	25-2	25-3	25-4	25-5	25-6	25-7	25-9	25-10	25-11
400.00	28-6	28-8	28-9	28-10	29-0	29-1	29-2	29-3	29-5	29-6
425.00	32-3	32-4	32-6	32-7	32-9	32-10	33-0	33-1	33-3	33-4
450.00	36-2	36-4	36-5	36-7	36-9	36-10	37-0	37-2	37-3	37-5
475.00	40-4	40-6	40-8	40-10	40-11	41-1	41-3	41-5	41-7	41-9
500.00	44-9	44-11	45-1	45-3	45-5	45-7	45-9	45-11	46-1	46-3

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-2	7-2	7-2	7-3	7-3	7-3	7-4	7-4	7-4	7-5
225.00	9-1	9-1	9-1	9-2	9-2	9-3	9-3	9-4	9-4	9-4
250.00	11-2	11-3	11-3	11-4	11-4	11-5	11-5	11-6	11-6	11-7
275.00	13-6	13-7	13-8	13-8	13-9	13-10	13-10	13-11	13-11	14-0
300.00	16-1	16-2	16-3	16-4	16-4	16-5	16-6	16-7	16-7	16-8
325.00	18-11	19-0	19-1	19-2	19-3	19-4	19-5	19-5	19-6	19-7
350.00	22-0	22-1	22-2	22-3	22-4	22-5	22-6	22-7	22-8	22-9
375.00	25-3	25-4	25-5	25-7	25-8	25-9	25-10	25-11	26-0	26-2
400.00	28-9	28-10	29-0	29-1	29-2	29-4	29-5	29-6	29-8	29-9
425.00	32-6	32-7	32-9	32-10	33-0	33-1	33-3	33-4	33-6	33-7
450.00	36-5	36-7	36-9	36-11	37-0	37-2	37-4	37-5	37-7	37-9
475.00	40-8	40-10	41-0	41-2	41-4	41-5	41-7	41-9	41-11	42-1
500.00	45-1	45-3	45-5	45-7	45-10	46-0	46-2	46-4	46-6	46-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.103

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-3	11-3	11-4	11-4	11-4	11-5	11-5	11-5	11-6	11-6
275.00	13-7	13-8	13-8	13-9	13-9	13-9	13-10	13-10	13-11	13-11
300.00	16-3	16-3	16-4	16-4	16-5	16-5	16-5	16-6	16-6	16-7
325.00	19-1	19-1	19-2	19-2	19-3	19-3	19-4	19-4	19-5	19-6
350.00	22-1	22-2	22-3	22-3	22-4	22-5	22-5	22-6	22-6	22-7
375.00	25-5	25-6	25-6	25-7	25-8	25-9	25-9	25-10	25-11	25-11
400.00	28-11	29-0	29-1	29-2	29-2	29-3	29-4	29-5	29-6	29-7
425.00	32-8	32-9	32-10	32-11	33-0	33-1	33-2	33-3	33-4	33-5
450.00	36-8	36-9	36-10	36-11	37-0	37-1	37-3	37-4	37-5	37-6
475.00	40-11	41-0	41-1	41-2	41-4	41-5	41-6	41-7	41-8	41-10
500.00	45-5	45-6	45-7	45-8	45-10	45-11	46-0	46-2	46-3	46-4
525.00	50-1	50-2	50-4	50-5	50-7	50-8	50-10	50-11	51-1	51-2
550.00	55-0	55-2	55-4	55-5	55-7	55-8	55-10	56-0	56-1	56-3
575.00	60-3	60-4	60-6	60-8	60-10	60-11	61-1	61-3	61-5	61-6
600.00	65-8	65-10	66-0	66-2	66-4	66-5	66-7	66-9	66-11	67-1
625.00	71-4	71-6	71-8	71-10	72-0	72-2	72-5	72-7	72-9	72-11

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-4	11-4	11-4	11-5	11-5	11-5	11-6	11-6	11-6	11-7
275.00	13-8	13-9	13-9	13-9	13-10	13-10	13-11	13-11	13-11	14-0
300.00	16-4	16-4	16-5	16-5	16-6	16-6	16-7	16-7	16-7	16-8
325.00	19-2	19-2	19-3	19-3	19-4	19-5	19-5	19-6	19-6	19-7
350.00	22-3	22-3	22-4	22-5	22-5	22-6	22-7	22-7	22-8	22-9
375.00	25-6	25-7	25-8	25-9	25-9	25-10	25-11	26-0	26-0	26-1
400.00	29-1	29-2	29-3	29-3	29-4	29-5	29-6	29-7	29-8	29-9
425.00	32-10	32-11	33-0	33-1	33-2	33-3	33-4	33-5	33-6	33-7
450.00	36-10	36-11	37-1	37-2	37-3	37-4	37-5	37-6	37-7	37-8
475.00	41-1	41-3	41-4	41-5	41-6	41-7	41-9	41-10	41-11	42-0
500.00	45-7	45-9	45-10	45-11	46-1	46-2	46-3	46-5	46-6	46-7
525.00	50-4	50-5	50-7	50-8	50-10	50-11	51-1	51-2	51-4	51-5
550.00	55-4	55-5	55-7	55-9	55-10	56-0	56-2	56-3	56-5	56-6
575.00	60-6	60-8	60-10	61-0	61-1	61-3	61-5	61-7	61-9	61-10
600.00	66-0	66-2	66-4	66-6	66-8	66-10	67-0	67-2	67-4	67-6
625.00	71-8	71-10	72-1	72-3	72-5	72-7	72-9	72-11	73-1	73-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	2.128	1.41	1881	1.33	2000*
0	0	0	0	1.12	0.86	1628	0.77	1827
30	0	0	0	1.12	1.13	1242	0.95	1469
40	0	0	0	1.12	1.23	1143	1.03	1363
50	0	0	0	1.12	1.32	1057	1.11	1265
60	0	0	0	1.12	1.42	984	1.19	1176
70	0	0	0	1.12	1.52	920	1.28	1095
80	0	0	0	1.12	1.62	864	1.37	1024
90	0	0	0	1.12	1.72	816	1.46	960
100	0	0	0	1.12	1.81	774	1.55	904
110	0	0	0	1.12	1.9	737	1.64	854
120	0	0	0	1.12	1.99	704	1.73	810
130	0	0	0	1.12	2.08	675	1.82	770
167	0	0	0	1.12	2.28	615	2.13	658
212	0	0	0	1.12	2.48	565	2.45	572

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	2.128	5.48	1946	5.33	2000*
0	0	0	0	1.12	4.64	1209	4.33	1296
30	0	0	0	1.12	5.07	1107	4.74	1185
40	0	0	0	1.12	5.21	1078	4.87	1153
50	0	0	0	1.12	5.34	1051	5	1123
60	0	0	0	1.12	5.48	1025	5.13	1094
70	0	0	0	1.12	5.61	1001	5.26	1068
80	0	0	0	1.12	5.74	979	5.39	1042
90	0	0	0	1.12	5.87	958	5.51	1019
100	0	0	0	1.12	5.99	938	5.64	996
110	0	0	0	1.12	6.11	919	5.76	975
120	0	0	0	1.12	6.24	902	5.88	955
130	0	0	0	1.12	6.36	885	6	936
167	0	0	0	1.12	6.78	829	6.43	874
212	0	0	0	1.12	7.12	791	6.93	812

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.105

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	2.128	12.22	1972	12.05	2000*
0	0	0	0	1.12	11.32	1119	10.97	1155
30	0	0	0	1.12	11.77	1077	11.4	1111
40	0	0	0	1.12	11.92	1064	11.54	1098
50	0	0	0	1.12	12.06	1051	11.69	1085
60	0	0	0	1.12	12.21	1039	11.83	1072
70	0	0	0	1.12	12.35	1027	11.97	1060
80	0	0	0	1.12	12.49	1016	12.1	1048
90	0	0	0	1.12	12.63	1005	12.24	1036
100	0	0	0	1.12	12.77	994	12.38	1025
110	0	0	0	1.12	12.9	984	12.51	1014
120	0	0	0	1.12	13.04	974	12.64	1004
130	0	0	0	1.12	13.17	964	12.78	993
167	0	0	0	1.12	13.66	930	13.26	958
212	0	0	0	1.12	14.15	899	13.83	919

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	2.128	21.71	1983	21.52	2000*
0	0	0	0	1.12	20.79	1089	20.43	1108
30	0	0	0	1.12	21.25	1066	20.87	1085
40	0	0	0	1.12	21.4	1059	21.01	1078
50	0	0	0	1.12	21.54	1052	21.15	1071
60	0	0	0	1.12	21.69	1045	21.3	1064
70	0	0	0	1.12	21.84	1038	21.44	1057
80	0	0	0	1.12	21.98	1031	21.58	1050
90	0	0	0	1.12	22.13	1025	21.72	1043
100	0	0	0	1.12	22.27	1018	21.87	1037
110	0	0	0	1.12	22.41	1012	22.01	1030
120	0	0	0	1.12	22.55	1006	22.14	1024
130	0	0	0	1.12	22.7	1000	22.28	1018
167	0	0	0	1.12	23.21	978	22.79	996
212	0	0	0	1.12	23.79	955	23.4	970

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.106

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	2.128	34.04	1989	33.86	2000*
0	0	0	0	1.12	33.12	1075	32.75	1087
30	0	0	0	1.12	33.58	1061	33.19	1073
40	0	0	0	1.12	33.73	1057	33.34	1069
50	0	0	0	1.12	33.88	1052	33.48	1064
60	0	0	0	1.12	34.03	1048	33.63	1060
70	0	0	0	1.12	34.17	1043	33.77	1055
80	0	0	0	1.12	34.32	1039	33.92	1051
90	0	0	0	1.12	34.47	1035	34.06	1047
100	0	0	0	1.12	34.62	1031	34.2	1043
110	0	0	0	1.12	34.76	1026	34.35	1038
120	0	0	0	1.12	34.91	1022	34.49	1034
130	0	0	0	1.12	35.05	1018	34.63	1030
167	0	0	0	1.12	35.58	1004	35.15	1015
212	0	0	0	1.12	36.22	987	35.78	998

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.107

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-10	0-11
100.00	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8
125.00	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-3	2-5	2-7
150.00	2-0	2-2	2-4	2-6	2-8	2-11	3-1	3-3	3-6	3-8
175.00	2-9	2-11	3-2	3-5	3-8	3-11	4-2	4-6	4-9	5-0
200.00	3-6	3-10	4-1	4-5	4-9	5-1	5-6	5-10	6-2	6-7

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1
100.00	1-0	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	1-11
125.00	1-7	1-9	1-11	2-1	2-3	2-5	2-6	2-8	2-10	3-0
150.00	2-4	2-6	2-9	3-0	3-2	3-5	3-8	3-10	4-1	4-3
175.00	3-2	3-5	3-9	4-1	4-4	4-8	5-0	5-3	5-7	5-10
200.00	4-2	4-6	4-11	5-4	5-8	6-1	6-6	6-11	7-3	7-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.108

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-5	1-5	1-5
125.00	1-10	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-2	2-3
150.00	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-3
175.00	3-6	3-8	3-9	3-10	3-11	4-0	4-1	4-3	4-4	4-5
200.00	4-7	4-9	4-10	5-0	5-2	5-3	5-5	5-6	5-8	5-9
225.00	5-10	6-0	6-2	6-4	6-6	6-8	6-10	7-0	7-2	7-4
250.00	7-2	7-5	7-7	7-10	8-0	8-3	8-5	8-7	8-10	9-0

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-3	1-3	1-4	1-4	1-4	1-5	1-5	1-6	1-6	1-6
125.00	1-11	2-0	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-5
150.00	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-4	3-5
175.00	3-9	3-11	4-0	4-1	4-2	4-4	4-5	4-6	4-7	4-8
200.00	4-11	5-1	5-3	5-4	5-6	5-7	5-9	5-10	6-0	6-1
225.00	6-3	6-5	6-7	6-9	6-11	7-1	7-3	7-5	7-7	7-9
250.00	7-8	7-11	8-2	8-4	8-7	8-9	9-0	9-2	9-4	9-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.109

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-10	2-10	2-11	2-11	2-11	3-0	3-0	3-1	3-1	3-1
175.00	3-10	3-10	3-11	4-0	4-0	4-1	4-1	4-2	4-2	4-3
200.00	5-0	5-1	5-2	5-2	5-3	5-4	5-4	5-5	5-6	5-7
225.00	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11	6-11	7-0
250.00	7-10	7-11	8-0	8-1	8-2	8-4	8-5	8-6	8-7	8-8
275.00	9-5	9-7	9-8	9-10	9-11	10-1	10-2	10-3	10-5	10-6
300.00	11-3	11-5	11-7	11-8	11-10	12-0	12-1	12-3	12-5	12-6
325.00	13-3	13-5	13-7	13-9	13-11	14-1	14-3	14-4	14-6	14-8
350.00	15-4	15-6	15-9	15-11	16-1	16-4	16-6	16-8	16-10	17-1
375.00	17-7	17-10	18-1	18-3	18-6	18-9	18-11	19-2	19-4	19-7

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-11	2-11	3-0	3-0	3-1	3-1	3-1	3-2	3-2	3-3
175.00	3-11	4-0	4-1	4-1	4-2	4-2	4-3	4-3	4-4	4-5
200.00	5-2	5-3	5-3	5-4	5-5	5-6	5-7	5-7	5-8	5-9
225.00	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3
250.00	8-1	8-2	8-3	8-4	8-6	8-7	8-8	8-9	8-10	8-11
275.00	9-9	9-11	10-0	10-2	10-3	10-4	10-6	10-7	10-9	10-10
300.00	11-7	11-9	11-11	12-1	12-2	12-4	12-6	12-8	12-9	12-11
325.00	13-8	13-10	14-0	14-2	14-4	14-6	14-8	14-10	15-0	15-2
350.00	15-10	16-0	16-3	16-5	16-8	16-10	17-0	17-2	17-5	17-7
375.00	18-2	18-5	18-8	18-10	19-1	19-4	19-6	19-9	20-0	20-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-2	5-2	5-3	5-3	5-4	5-4	5-5	5-5	5-5	5-6
225.00	6-6	6-7	6-8	6-8	6-9	6-9	6-10	6-10	6-11	6-11
250.00	8-1	8-2	8-2	8-3	8-4	8-4	8-5	8-6	8-6	8-7
275.00	9-9	9-10	9-11	10-0	10-1	10-1	10-2	10-3	10-4	10-5
300.00	11-8	11-9	11-10	11-11	12-0	12-0	12-1	12-2	12-3	12-4
325.00	13-8	13-9	13-10	13-11	14-1	14-2	14-3	14-4	14-5	14-6
350.00	15-10	16-0	16-1	16-2	16-4	16-5	16-6	16-7	16-9	16-10
375.00	18-2	18-4	18-5	18-7	18-9	18-10	19-0	19-1	19-2	19-4
400.00	20-9	20-10	21-0	21-2	21-4	21-5	21-7	21-9	21-10	22-0
425.00	23-5	23-7	23-9	23-11	24-1	24-3	24-5	24-6	24-8	24-10
450.00	26-3	26-5	26-7	26-10	27-0	27-2	27-4	27-6	27-8	27-11
475.00	29-3	29-6	29-8	29-11	30-1	30-3	30-6	30-8	30-11	31-1
500.00	32-5	32-8	32-11	33-1	33-4	33-7	33-10	34-0	34-3	34-6

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-3	5-4	5-4	5-4	5-5	5-5	5-6	5-6	5-7	5-7
225.00	6-8	6-8	6-9	6-10	6-10	6-11	6-11	7-0	7-0	7-1
250.00	8-3	8-3	8-4	8-5	8-5	8-6	8-7	8-7	8-8	8-9
275.00	9-11	10-0	10-1	10-2	10-3	10-4	10-4	10-5	10-6	10-7
300.00	11-10	11-11	12-0	12-1	12-2	12-3	12-4	12-5	12-6	12-7
325.00	13-11	14-0	14-1	14-2	14-4	14-5	14-6	14-7	14-8	14-9
350.00	16-2	16-3	16-4	16-6	16-7	16-8	16-10	16-11	17-0	17-2
375.00	18-6	18-8	18-10	18-11	19-1	19-2	19-4	19-5	19-7	19-8
400.00	21-1	21-3	21-5	21-7	21-8	21-10	22-0	22-2	22-3	22-5
425.00	23-10	24-0	24-2	24-4	24-6	24-8	24-10	25-0	25-2	25-4
450.00	26-9	26-11	27-1	27-4	27-6	27-8	27-10	28-0	28-3	28-5
475.00	29-10	30-0	30-3	30-5	30-8	30-10	31-1	31-3	31-5	31-8
500.00	33-0	33-3	33-6	33-9	34-0	34-2	34-5	34-8	34-11	35-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.111

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-3	8-3	8-4	8-4	8-4	8-5	8-5	8-6	8-6	8-7
275.00	9-11	10-0	10-1	10-1	10-2	10-2	10-3	10-3	10-4	10-4
300.00	11-10	11-11	11-11	12-0	12-1	12-1	12-2	12-3	12-3	12-4
325.00	13-11	14-0	14-0	14-1	14-2	14-3	14-3	14-4	14-5	14-6
350.00	16-2	16-3	16-3	16-4	16-5	16-6	16-7	16-8	16-8	16-9
375.00	18-6	18-7	18-8	18-9	18-10	18-11	19-0	19-1	19-2	19-3
400.00	21-1	21-2	21-3	21-5	21-6	21-7	21-8	21-9	21-10	21-11
425.00	23-10	23-11	24-1	24-2	24-3	24-4	24-6	24-7	24-8	24-9
450.00	26-9	26-10	27-0	27-1	27-2	27-4	27-5	27-7	27-8	27-9
475.00	29-10	29-11	30-1	30-2	30-4	30-6	30-7	30-9	30-10	31-0
500.00	33-1	33-2	33-4	33-6	33-8	33-9	33-11	34-1	34-2	34-4
525.00	36-5	36-7	36-9	36-11	37-1	37-3	37-5	37-7	37-9	37-11
550.00	40-0	40-3	40-5	40-7	40-9	40-11	41-1	41-3	41-5	41-7
575.00	43-9	44-0	44-2	44-4	44-7	44-9	44-11	45-2	45-4	45-6
600.00	47-8	47-11	48-2	48-4	48-7	48-9	49-0	49-2	49-5	49-7
625.00	51-10	52-0	52-3	52-6	52-9	52-11	53-2	53-5	53-8	53-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-4	8-4	8-5	8-5	8-6	8-6	8-6	8-7	8-7	8-8
275.00	10-1	10-1	10-2	10-2	10-3	10-4	10-4	10-5	10-5	10-6
300.00	12-0	12-1	12-1	12-2	12-2	12-3	12-4	12-4	12-5	12-6
325.00	14-1	14-2	14-2	14-3	14-4	14-5	14-5	14-6	14-7	14-8
350.00	16-4	16-5	16-6	16-7	16-7	16-8	16-9	16-10	16-11	17-0
375.00	18-9	18-10	18-11	19-0	19-1	19-2	19-3	19-4	19-5	19-6
400.00	21-4	21-5	21-6	21-8	21-9	21-10	21-11	22-0	22-1	22-2
425.00	24-1	24-3	24-4	24-5	24-7	24-8	24-9	24-10	25-0	25-1
450.00	27-1	27-2	27-3	27-5	27-6	27-8	27-9	27-11	28-0	28-1
475.00	30-2	30-3	30-5	30-7	30-8	30-10	30-11	31-1	31-3	31-4
500.00	33-5	33-7	33-9	33-11	34-0	34-2	34-4	34-6	34-7	34-9
525.00	36-11	37-1	37-2	37-4	37-6	37-8	37-10	38-0	38-2	38-4
550.00	40-6	40-8	40-10	41-1	41-3	41-5	41-7	41-9	41-11	42-1
575.00	44-3	44-6	44-8	44-11	45-1	45-3	45-6	45-8	45-10	46-1
600.00	48-3	48-6	48-8	48-11	49-2	49-4	49-7	49-9	50-0	50-2
625.00	52-5	52-8	52-11	53-1	53-4	53-7	53-10	54-1	54-3	54-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.112

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	3.295	4.18	993	4.15	1000*
20	0	0	0	1.12	3.89	362	3.83	368
30	0	0	0	1.12	3.94	358	3.88	363
40	0	0	0	1.12	3.99	353	3.93	359
50	0	0	0	1.12	4.04	349	3.98	354
60	0	0	0	1.12	4.09	345	4.03	350
70	0	0	0	1.12	4.14	341	4.07	346
80	0	0	0	1.12	4.18	337	4.12	342
90	0	0	0	1.12	4.23	333	4.17	338
100	0	0	0	1.12	4.28	330	4.22	334
110	0	0	0	1.12	4.31	327	4.26	331
120	0	0	0	1.12	4.34	325	4.31	327
130	0	0	0	1.12	4.37	323	4.35	324
167	0	0	0	1.12	4.48	315	4.47	315
212	0	0	0	1.12	4.61	306	4.6	307

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	3.295	16.98	998	16.95	1000*
20	0	0	0	1.12	16.69	345	16.63	346
30	0	0	0	1.12	16.74	344	16.68	345
40	0	0	0	1.12	16.79	343	16.73	344
50	0	0	0	1.12	16.84	342	16.78	343
60	0	0	0	1.12	16.89	341	16.83	342
70	0	0	0	1.12	16.94	340	16.88	341
80	0	0	0	1.12	16.99	339	16.92	340
90	0	0	0	1.12	17.03	338	16.97	339
100	0	0	0	1.12	17.08	337	17.02	339
110	0	0	0	1.12	17.12	337	17.07	338
120	0	0	0	1.12	17.16	336	17.12	337
130	0	0	0	1.12	17.19	335	17.16	336
167	0	0	0	1.12	17.31	333	17.3	333
212	0	0	0	1.12	17.45	331	17.44	331

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.113

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Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	3.295	39.71	999	39.68	1000*
20	0	0	0	1.12	39.42	342	39.36	342
30	0	0	0	1.12	39.47	341	39.41	342
40	0	0	0	1.12	39.52	341	39.46	342
50	0	0	0	1.12	39.57	341	39.51	341
60	0	0	0	1.12	39.62	340	39.56	341
70	0	0	0	1.12	39.66	340	39.6	340
80	0	0	0	1.12	39.71	340	39.65	340
90	0	0	0	1.12	39.76	339	39.7	340
100	0	0	0	1.12	39.81	339	39.75	339
110	0	0	0	1.12	39.85	339	39.79	339
120	0	0	0	1.12	39.88	338	39.84	339
130	0	0	0	1.12	39.92	338	39.89	338
167	0	0	0	1.12	40.04	337	40.03	337
212	0	0	0	1.12	40.18	336	40.17	336

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	3.295	75.38	1000	75.35	1000*
20	0	0	0	1.12	75.09	341	75.04	341
30	0	0	0	1.12	75.14	341	75.09	341
40	0	0	0	1.12	75.19	340	75.13	341
50	0	0	0	1.12	75.24	340	75.18	340
60	0	0	0	1.12	75.29	340	75.23	340
70	0	0	0	1.12	75.34	340	75.28	340
80	0	0	0	1.12	75.38	340	75.32	340
90	0	0	0	1.12	75.43	340	75.37	340
100	0	0	0	1.12	75.48	339	75.42	340
110	0	0	0	1.12	75.52	339	75.47	340
120	0	0	0	1.12	75.55	339	75.51	339
130	0	0	0	1.12	75.59	339	75.56	339
167	0	0	0	1.12	75.71	339	75.7	339
212	0	0	0	1.12	75.85	338	75.84	338

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-2	2-2	2-2	2-3	2-3	2-3	2-4	2-4	2-4	2-5
100.00	3-10	3-11	3-11	4-0	4-0	4-1	4-1	4-2	4-3	4-3
125.00	6-0	6-1	6-2	6-3	6-4	6-4	6-5	6-6	6-7	6-8
150.00	8-8	8-9	8-10	9-0	9-1	9-2	9-4	9-5	9-6	9-7
175.00	11-9	11-11	12-1	12-3	12-5	12-6	12-8	12-10	13-0	13-1
200.00	15-5	15-7	15-10	16-0	16-3	16-5	16-7	16-10	17-0	17-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-2	2-3	2-3	2-3	2-4	2-4	2-4	2-5	2-5	2-5
100.00	3-11	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-3	4-4
125.00	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-7	6-8	6-9
150.00	8-9	8-11	9-0	9-1	9-3	9-4	9-5	9-7	9-8	9-9
175.00	11-11	12-1	12-3	12-5	12-7	12-9	12-10	13-0	13-2	13-3
200.00	15-8	15-10	16-1	16-3	16-5	16-8	16-10	17-1	17-3	17-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.115

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-3	4-3	4-3
125.00	6-6	6-6	6-6	6-6	6-6	6-7	6-7	6-7	6-7	6-8
150.00	9-4	9-4	9-4	9-5	9-5	9-5	9-6	9-6	9-6	9-7
175.00	12-9	12-9	12-9	12-10	12-10	12-11	12-11	13-0	13-0	13-0
200.00	16-8	16-8	16-9	16-9	16-10	16-11	16-11	17-0	17-0	17-1
225.00	21-1	21-2	21-3	21-3	21-4	21-5	21-6	21-6	21-7	21-8
250.00	26-1	26-2	26-3	26-4	26-5	26-6	26-7	26-8	26-9	26-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-2	4-2	4-2	4-2	4-2	4-2	4-3	4-3	4-3	4-3
125.00	6-6	6-6	6-6	6-6	6-7	6-7	6-7	6-7	6-8	6-8
150.00	9-4	9-5	9-5	9-5	9-6	9-6	9-6	9-7	9-7	9-7
175.00	12-9	12-9	12-10	12-10	12-11	12-11	13-0	13-0	13-1	13-1
200.00	16-8	16-9	16-9	16-10	16-11	16-11	17-0	17-0	17-1	17-1
225.00	21-2	21-3	21-4	21-4	21-5	21-6	21-7	21-7	21-8	21-9
250.00	26-3	26-4	26-4	26-5	26-6	26-7	26-8	26-9	26-10	26-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.116

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	9-8	9-8	9-8	9-9	9-9	9-9	9-9	9-9	9-9	9-9
175.00	13-2	13-3	13-3	13-3	13-3	13-3	13-4	13-4	13-4	13-4
200.00	17-3	17-4	17-4	17-4	17-4	17-5	17-5	17-5	17-5	17-6
225.00	21-11	21-11	22-0	22-0	22-0	22-1	22-1	22-1	22-2	22-2
250.00	27-2	27-2	27-3	27-3	27-3	27-4	27-4	27-5	27-5	27-5
275.00	33-0	33-0	33-0	33-1	33-1	33-2	33-2	33-3	33-3	33-4
300.00	39-4	39-5	39-6	39-6	39-7	39-7	39-8	39-8	39-9	39-10
325.00	46-4	46-5	46-6	46-7	46-7	46-8	46-9	46-9	46-10	46-11
350.00	54-0	54-1	54-2	54-2	54-3	54-4	54-5	54-6	54-6	54-7
375.00	62-3	62-4	62-5	62-6	62-7	62-8	62-9	62-10	62-11	63-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	9-8	9-8	9-9	9-9	9-9	9-9	9-9	9-9	9-9	9-10
175.00	13-3	13-3	13-3	13-3	13-3	13-4	13-4	13-4	13-4	13-4
200.00	17-4	17-4	17-4	17-4	17-5	17-5	17-5	17-5	17-6	17-6
225.00	22-0	22-0	22-0	22-1	22-1	22-1	22-1	22-2	22-2	22-2
250.00	27-2	27-3	27-3	27-3	27-4	27-4	27-5	27-5	27-5	27-6
275.00	33-0	33-1	33-1	33-2	33-2	33-3	33-3	33-4	33-4	33-4
300.00	39-5	39-6	39-6	39-7	39-7	39-8	39-9	39-9	39-10	39-10
325.00	46-5	46-6	46-7	46-7	46-8	46-9	46-9	46-10	46-11	46-11
350.00	54-1	54-2	54-3	54-3	54-4	54-5	54-6	54-7	54-8	54-8
375.00	62-4	62-5	62-6	62-7	62-8	62-9	62-10	62-11	63-0	63-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	18-2	18-2	18-2	18-2	18-3	18-3	18-3	18-3	18-3	18-3
225.00	23-1	23-1	23-1	23-1	23-1	23-2	23-2	23-2	23-2	23-2
250.00	28-7	28-7	28-7	28-7	28-8	28-8	28-8	28-8	28-8	28-9
275.00	34-8	34-8	34-9	34-9	34-9	34-9	34-10	34-10	34-10	34-10
300.00	41-5	41-5	41-6	41-6	41-6	41-7	41-7	41-7	41-8	41-8
325.00	48-10	48-10	48-11	48-11	48-11	49-0	49-0	49-0	49-1	49-1
350.00	56-11	56-11	56-11	57-0	57-0	57-1	57-1	57-2	57-2	57-2
375.00	65-7	65-8	65-8	65-9	65-9	65-10	65-10	65-11	65-11	66-0
400.00	75-0	75-1	75-2	75-2	75-3	75-3	75-4	75-4	75-5	75-6
425.00	85-2	85-3	85-3	85-4	85-5	85-5	85-6	85-7	85-7	85-8
450.00	96-1	96-1	96-2	96-3	96-4	96-4	96-5	96-6	96-7	96-7
475.00	107-8	107-9	107-10	107-11	108-0	108-0	108-1	108-2	108-3	108-4
500.00	120-1	120-2	120-3	120-4	120-5	120-6	120-7	120-8	120-9	120-10

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	18-2	18-2	18-2	18-3	18-3	18-3	18-3	18-3	18-3	18-3
225.00	23-1	23-1	23-1	23-1	23-2	23-2	23-2	23-2	23-2	23-2
250.00	28-7	28-7	28-7	28-8	28-8	28-8	28-8	28-8	28-9	28-9
275.00	34-8	34-9	34-9	34-9	34-9	34-10	34-10	34-10	34-10	34-11
300.00	41-5	41-6	41-6	41-6	41-7	41-7	41-7	41-8	41-8	41-8
325.00	48-10	48-11	48-11	48-11	49-0	49-0	49-0	49-1	49-1	49-2
350.00	56-11	56-11	57-0	57-0	57-1	57-1	57-2	57-2	57-2	57-3
375.00	65-8	65-8	65-9	65-9	65-10	65-10	65-11	65-11	66-0	66-0
400.00	75-1	75-2	75-2	75-3	75-3	75-4	75-5	75-5	75-6	75-6
425.00	85-3	85-4	85-4	85-5	85-6	85-6	85-7	85-8	85-8	85-9
450.00	96-1	96-2	96-3	96-4	96-5	96-5	96-6	96-7	96-8	96-8
475.00	107-9	107-10	107-11	108-0	108-1	108-1	108-2	108-3	108-4	108-5
500.00	120-2	120-3	120-4	120-5	120-6	120-7	120-8	120-9	120-10	120-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.118

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	3.295	2.79	1479	2.75	1500*
20	0	0	0	1.12	2.25	623	2.13	658
30	0	0	0	1.12	2.33	602	2.21	634
40	0	0	0	1.12	2.41	582	2.29	613
50	0	0	0	1.12	2.49	565	2.37	593
60	0	0	0	1.12	2.56	548	2.44	575
70	0	0	0	1.12	2.63	533	2.51	559
80	0	0	0	1.12	2.71	519	2.58	543
90	0	0	0	1.12	2.78	506	2.65	529
100	0	0	0	1.12	2.84	494	2.72	516
110	0	0	0	1.12	2.91	483	2.79	503
120	0	0	0	1.12	2.98	472	2.86	492
130	0	0	0	1.12	3.03	464	2.92	481
167	0	0	0	1.12	3.17	443	3.15	446
212	0	0	0	1.12	3.34	421	3.33	423

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	3.295	11.16	1495	11.12	1500*
20	0	0	0	1.12	10.62	533	10.5	539
30	0	0	0	1.12	10.69	530	10.58	535
40	0	0	0	1.12	10.77	526	10.65	532
50	0	0	0	1.12	10.84	523	10.73	528
60	0	0	0	1.12	10.92	519	10.8	525
70	0	0	0	1.12	10.99	516	10.87	521
80	0	0	0	1.12	11.06	512	10.94	518
90	0	0	0	1.12	11.14	509	11.02	515
100	0	0	0	1.12	11.21	506	11.09	511
110	0	0	0	1.12	11.28	503	11.16	508
120	0	0	0	1.12	11.35	500	11.23	505
130	0	0	0	1.12	11.42	497	11.3	502
167	0	0	0	1.12	11.6	489	11.56	491
212	0	0	0	1.12	11.8	481	11.79	482

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.119

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Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	3.295	25.46	1498	25.42	1500*
20	0	0	0	1.12	24.92	520	24.81	522
30	0	0	0	1.12	25	518	24.89	520
40	0	0	0	1.12	25.07	517	24.96	519
50	0	0	0	1.12	25.14	515	25.03	517
60	0	0	0	1.12	25.22	514	25.1	516
70	0	0	0	1.12	25.29	512	25.18	515
80	0	0	0	1.12	25.37	511	25.25	513
90	0	0	0	1.12	25.44	510	25.32	512
100	0	0	0	1.12	25.51	508	25.39	510
110	0	0	0	1.12	25.59	507	25.46	509
120	0	0	0	1.12	25.66	505	25.53	508
130	0	0	0	1.12	25.73	504	25.61	506
167	0	0	0	1.12	25.92	501	25.87	502
212	0	0	0	1.12	26.13	497	26.11	497

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	3.295	46.34	1499	46.3	1500*
20	0	0	0	1.12	45.8	515	45.69	516
30	0	0	0	1.12	45.87	514	45.76	515
40	0	0	0	1.12	45.94	513	45.83	515
50	0	0	0	1.12	46.02	513	45.91	514
60	0	0	0	1.12	46.09	512	45.98	513
70	0	0	0	1.12	46.17	511	46.05	512
80	0	0	0	1.12	46.24	510	46.12	512
90	0	0	0	1.12	46.31	510	46.19	511
100	0	0	0	1.12	46.39	509	46.26	510
110	0	0	0	1.12	46.46	508	46.34	509
120	0	0	0	1.12	46.53	508	46.41	509
130	0	0	0	1.12	46.6	507	46.48	508
167	0	0	0	1.12	46.79	505	46.74	505
212	0	0	0	1.12	47.01	503	47	503

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SHEET 120 OF 198

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.120

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	3.295	74.88	1499	74.84	1500*
20	0	0	0	1.12	74.34	513	74.23	513
30	0	0	0	1.12	74.41	512	74.31	513
40	0	0	0	1.12	74.49	512	74.38	513
50	0	0	0	1.12	74.56	511	74.45	512
60	0	0	0	1.12	74.63	511	74.52	512
70	0	0	0	1.12	74.71	511	74.59	511
80	0	0	0	1.12	74.78	510	74.66	511
90	0	0	0	1.12	74.85	510	74.74	510
100	0	0	0	1.12	74.93	509	74.81	510
110	0	0	0	1.12	75	509	74.88	510
120	0	0	0	1.12	75.07	509	74.95	509
130	0	0	0	1.12	75.15	508	75.02	509
167	0	0	0	1.12	75.34	507	75.29	507
212	0	0	0	1.12	75.55	506	75.54	506

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.121

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7
100.00	2-2	2-3	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-9
125.00	3-4	3-5	3-7	3-8	3-10	3-11	4-0	4-2	4-3	4-4
150.00	4-10	5-0	5-2	5-4	5-6	5-8	5-10	6-0	6-2	6-3
175.00	6-6	6-9	7-0	7-3	7-6	7-9	7-11	8-2	8-4	8-7
200.00	8-7	8-10	9-2	9-6	9-9	10-1	10-4	10-8	10-11	11-2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-8
100.00	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9	2-10	2-11
125.00	3-6	3-8	3-9	3-11	4-0	4-1	4-3	4-4	4-5	4-7
150.00	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-5	6-7
175.00	6-11	7-2	7-5	7-8	7-10	8-1	8-4	8-6	8-9	8-11
200.00	9-0	9-4	9-8	10-0	10-3	10-7	10-10	11-2	11-5	11-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.122

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-7	2-8	2-8	2-8	2-8	2-9	2-9	2-9	2-9	2-9
125.00	4-1	4-1	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-4
150.00	5-11	5-11	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3
175.00	8-0	8-1	8-2	8-2	8-3	8-4	8-4	8-5	8-6	8-6
200.00	10-6	10-7	10-8	10-9	10-10	10-10	10-11	11-0	11-1	11-2
225.00	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-11	14-1	14-2
250.00	16-5	16-7	16-8	16-10	16-11	17-0	17-2	17-3	17-4	17-6

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-8	2-8	2-8	2-8	2-9	2-9	2-9	2-9	2-10	2-10
125.00	4-2	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-4	4-5
150.00	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4
175.00	8-1	8-2	8-3	8-4	8-4	8-5	8-6	8-6	8-7	8-8
200.00	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2	11-2	11-3
225.00	13-5	13-7	13-8	13-9	13-10	13-11	14-0	14-1	14-2	14-4
250.00	16-7	16-9	16-10	17-0	17-1	17-3	17-4	17-5	17-7	17-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.123

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-2	6-2	6-2	6-3	6-3	6-3	6-3	6-3	6-4	6-4
175.00	8-5	8-5	8-5	8-6	8-6	8-6	8-6	8-7	8-7	8-7
200.00	11-0	11-0	11-0	11-1	11-1	11-2	11-2	11-2	11-3	11-3
225.00	13-11	13-11	14-0	14-0	14-1	14-1	14-2	14-2	14-3	14-3
250.00	17-2	17-3	17-3	17-4	17-5	17-5	17-6	17-6	17-7	17-8
275.00	20-10	20-11	20-11	21-0	21-1	21-1	21-2	21-3	21-4	21-4
300.00	24-10	24-11	25-0	25-0	25-1	25-2	25-3	25-4	25-5	25-6
325.00	29-2	29-3	29-4	29-5	29-6	29-7	29-8	29-9	29-10	29-11
350.00	33-11	34-0	34-1	34-2	34-3	34-5	34-6	34-7	34-8	34-9
375.00	39-0	39-1	39-2	39-4	39-5	39-6	39-8	39-9	39-11	40-0

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-2	6-2	6-3	6-3	6-3	6-3	6-4	6-4	6-4	6-4
175.00	8-5	8-5	8-6	8-6	8-6	8-7	8-7	8-7	8-8	8-8
200.00	11-0	11-1	11-1	11-1	11-2	11-2	11-3	11-3	11-3	11-4
225.00	14-0	14-0	14-1	14-1	14-2	14-2	14-3	14-3	14-3	14-4
250.00	17-3	17-4	17-4	17-5	17-6	17-6	17-7	17-7	17-8	17-9
275.00	20-11	21-0	21-0	21-1	21-2	21-3	21-3	21-4	21-5	21-6
300.00	24-11	25-0	25-1	25-2	25-3	25-4	25-4	25-5	25-6	25-7
325.00	29-4	29-5	29-6	29-7	29-8	29-9	29-10	29-11	30-0	30-1
350.00	34-0	34-2	34-3	34-4	34-5	34-6	34-8	34-9	34-10	34-11
375.00	39-2	39-3	39-4	39-6	39-7	39-9	39-10	40-0	40-1	40-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.124

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-3	11-4	11-4	11-4	11-4	11-4	11-5	11-5	11-5	11-5
225.00	14-3	14-4	14-4	14-4	14-5	14-5	14-5	14-5	14-6	14-6
250.00	17-8	17-8	17-9	17-9	17-9	17-10	17-10	17-10	17-11	17-11
275.00	21-5	21-5	21-6	21-6	21-6	21-7	21-7	21-8	21-8	21-8
300.00	25-6	25-7	25-7	25-8	25-8	25-9	25-9	25-9	25-10	25-10
325.00	30-0	30-0	30-1	30-2	30-2	30-3	30-3	30-4	30-4	30-5
350.00	34-10	34-11	34-11	35-0	35-1	35-1	35-2	35-3	35-3	35-4
375.00	40-1	40-2	40-2	40-3	40-4	40-5	40-5	40-6	40-7	40-8
400.00	45-8	45-9	45-10	45-11	46-0	46-1	46-1	46-2	46-3	46-4
425.00	51-8	51-9	51-10	51-11	52-0	52-1	52-2	52-3	52-4	52-5
450.00	58-1	58-2	58-3	58-4	58-5	58-7	58-8	58-9	58-10	58-11
475.00	64-10	65-0	65-1	65-2	65-3	65-5	65-6	65-7	65-8	65-10
500.00	72-1	72-2	72-4	72-5	72-6	72-8	72-9	72-10	73-0	73-1

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-4	11-4	11-4	11-4	11-5	11-5	11-5	11-5	11-5	11-6
225.00	14-4	14-4	14-4	14-5	14-5	14-5	14-6	14-6	14-6	14-6
250.00	17-8	17-9	17-9	17-9	17-10	17-10	17-10	17-11	17-11	17-11
275.00	21-5	21-6	21-6	21-7	21-7	21-7	21-8	21-8	21-9	21-9
300.00	25-7	25-7	25-8	25-8	25-9	25-9	25-10	25-10	25-11	25-11
325.00	30-1	30-1	30-2	30-2	30-3	30-4	30-4	30-5	30-5	30-6
350.00	34-11	35-0	35-0	35-1	35-2	35-2	35-3	35-4	35-4	35-5
375.00	40-2	40-3	40-4	40-4	40-5	40-6	40-7	40-7	40-8	40-9
400.00	45-10	45-10	45-11	46-0	46-1	46-2	46-3	46-4	46-5	46-5
425.00	51-10	51-11	52-0	52-1	52-2	52-3	52-4	52-5	52-6	52-7
450.00	58-3	58-4	58-5	58-6	58-7	58-8	58-9	58-11	59-0	59-1
475.00	65-0	65-2	65-3	65-4	65-5	65-7	65-8	65-9	65-10	66-0
500.00	72-3	72-4	72-6	72-7	72-9	72-10	72-11	73-1	73-2	73-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.125

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	18-2	18-2	18-3	18-3	18-3	18-3	18-3	18-4	18-4	18-4
275.00	22-0	22-1	22-1	22-1	22-1	22-2	22-2	22-2	22-2	22-3
300.00	26-3	26-3	26-4	26-4	26-4	26-5	26-5	26-5	26-5	26-6
325.00	30-10	30-11	30-11	30-11	31-0	31-0	31-0	31-1	31-1	31-2
350.00	35-10	35-11	35-11	36-0	36-0	36-0	36-1	36-1	36-2	36-2
375.00	41-3	41-4	41-4	41-4	41-5	41-5	41-6	41-6	41-7	41-7
400.00	47-0	47-1	47-2	47-2	47-3	47-3	47-4	47-4	47-5	47-5
425.00	53-3	53-3	53-4	53-5	53-5	53-6	53-6	53-7	53-8	53-8
450.00	59-10	59-10	59-11	60-0	60-1	60-1	60-2	60-3	60-3	60-4
475.00	66-10	66-11	66-11	67-0	67-1	67-2	67-2	67-3	67-4	67-5
500.00	74-3	74-4	74-5	74-5	74-6	74-7	74-8	74-9	74-10	74-11
525.00	82-1	82-2	82-3	82-4	82-5	82-6	82-7	82-8	82-9	82-9
550.00	90-4	90-5	90-6	90-7	90-8	90-9	90-10	91-0	91-1	91-2
575.00	99-1	99-2	99-3	99-4	99-5	99-6	99-8	99-9	99-10	99-11
600.00	108-2	108-4	108-5	108-6	108-8	108-9	108-10	108-11	109-1	109-2
625.00	117-10	117-11	118-0	118-2	118-3	118-5	118-6	118-8	118-9	118-10

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	18-2	18-3	18-3	18-3	18-3	18-3	18-4	18-4	18-4	18-4
275.00	22-1	22-1	22-1	22-1	22-2	22-2	22-2	22-2	22-3	22-3
300.00	26-3	26-4	26-4	26-4	26-5	26-5	26-5	26-6	26-6	26-6
325.00	30-11	30-11	31-0	31-0	31-0	31-1	31-1	31-1	31-2	31-2
350.00	35-11	35-11	36-0	36-0	36-1	36-1	36-1	36-2	36-2	36-3
375.00	41-4	41-4	41-5	41-5	41-6	41-6	41-7	41-7	41-8	41-8
400.00	47-1	47-2	47-2	47-3	47-3	47-4	47-5	47-5	47-6	47-6
425.00	53-4	53-4	53-5	53-5	53-6	53-7	53-7	53-8	53-9	53-9
450.00	59-11	59-11	60-0	60-1	60-2	60-2	60-3	60-4	60-4	60-5
475.00	66-11	67-0	67-1	67-1	67-2	67-3	67-4	67-4	67-5	67-6
500.00	74-4	74-5	74-6	74-7	74-8	74-8	74-9	74-10	74-11	75-0
525.00	82-2	82-3	82-4	82-5	82-6	82-7	82-8	82-9	82-10	82-11
550.00	90-6	90-7	90-8	90-9	90-10	90-11	91-0	91-1	91-2	91-3
575.00	99-2	99-4	99-5	99-6	99-7	99-8	99-10	99-11	100-0	100-1
600.00	108-4	108-6	108-7	108-8	108-10	108-11	109-0	109-2	109-3	109-4
625.00	118-0	118-1	118-3	118-4	118-6	118-7	118-8	118-10	118-11	119-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.126

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	3.295	2.12	1951	2.06	2000*
20	0	0	0	1.12	1.3	1075	1.14	1228
30	0	0	0	1.12	1.4	998	1.23	1143
40	0	0	0	1.12	1.5	933	1.31	1067
50	0	0	0	1.12	1.6	875	1.4	999
60	0	0	0	1.12	1.7	826	1.49	938
70	0	0	0	1.12	1.79	783	1.58	885
80	0	0	0	1.12	1.88	744	1.67	837
90	0	0	0	1.12	1.97	711	1.76	795
100	0	0	0	1.12	2.06	681	1.85	758
110	0	0	0	1.12	2.15	654	1.94	724
120	0	0	0	1.12	2.23	629	2.02	694
130	0	0	0	1.12	2.31	607	2.1	667
167	0	0	0	1.12	2.49	563	2.39	586
212	0	0	0	1.12	2.69	522	2.67	527

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	3.295	8.33	1991	8.29	2000*
20	0	0	0	1.12	7.46	755	7.27	774
30	0	0	0	1.12	7.57	744	7.38	763
40	0	0	0	1.12	7.67	734	7.48	753
50	0	0	0	1.12	7.77	725	7.58	743
60	0	0	0	1.12	7.87	716	7.67	734
70	0	0	0	1.12	7.97	707	7.77	725
80	0	0	0	1.12	8.07	699	7.87	716
90	0	0	0	1.12	8.16	690	7.96	708
100	0	0	0	1.12	8.26	683	8.06	699
110	0	0	0	1.12	8.36	675	8.15	691
120	0	0	0	1.12	8.45	668	8.25	684
130	0	0	0	1.12	8.54	660	8.34	676
167	0	0	0	1.12	8.84	639	8.68	650
212	0	0	0	1.12	9.09	621	9.07	623

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.127

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	3.295	18.86	1996	18.83	2000*
20	0	0	0	1.12	17.99	710	17.81	717
30	0	0	0	1.12	18.1	706	17.91	714
40	0	0	0	1.12	18.2	703	18.01	710
50	0	0	0	1.12	18.3	699	18.11	706
60	0	0	0	1.12	18.39	695	18.2	702
70	0	0	0	1.12	18.49	692	18.3	699
80	0	0	0	1.12	18.59	688	18.4	695
90	0	0	0	1.12	18.69	685	18.49	692
100	0	0	0	1.12	18.79	681	18.59	688
110	0	0	0	1.12	18.88	678	18.68	685
120	0	0	0	1.12	18.98	675	18.78	681
130	0	0	0	1.12	19.08	671	18.87	678
167	0	0	0	1.12	19.4	660	19.22	666
212	0	0	0	1.12	19.68	651	19.64	653

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	3.295	33.93	1998	33.9	2000*
20	0	0	0	1.12	33.07	696	32.89	700
30	0	0	0	1.12	33.17	694	32.99	698
40	0	0	0	1.12	33.27	692	33.08	696
50	0	0	0	1.12	33.37	690	33.18	694
60	0	0	0	1.12	33.46	688	33.28	692
70	0	0	0	1.12	33.56	686	33.37	690
80	0	0	0	1.12	33.66	684	33.47	688
90	0	0	0	1.12	33.76	682	33.56	686
100	0	0	0	1.12	33.86	681	33.66	684
110	0	0	0	1.12	33.95	679	33.76	683
120	0	0	0	1.12	34.05	677	33.85	681
130	0	0	0	1.12	34.15	675	33.95	679
167	0	0	0	1.12	34.49	669	34.3	672
212	0	0	0	1.12	34.77	664	34.72	665

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.128

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	3.295	53.92	1999	53.88	2000*
20	0	0	0	1.12	53.05	690	52.88	692
30	0	0	0	1.12	53.15	688	52.97	690
40	0	0	0	1.12	53.25	687	53.07	689
50	0	0	0	1.12	53.35	686	53.17	688
60	0	0	0	1.12	53.45	685	53.26	687
70	0	0	0	1.12	53.55	684	53.36	686
80	0	0	0	1.12	53.65	683	53.45	685
90	0	0	0	1.12	53.74	681	53.55	684
100	0	0	0	1.12	53.84	680	53.65	683
110	0	0	0	1.12	53.94	679	53.74	681
120	0	0	0	1.12	54.04	678	53.84	680
130	0	0	0	1.12	54.13	677	53.93	679
167	0	0	0	1.12	54.48	673	54.28	675
212	0	0	0	1.12	54.77	670	54.71	670

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.129

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Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1
100.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
125.00	1-9	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-11	3-0
150.00	2-7	2-9	2-11	3-2	3-4	3-7	3-9	4-0	4-2	4-4
175.00	3-6	3-9	4-0	4-4	4-7	4-10	5-2	5-5	5-8	5-11
200.00	4-7	4-11	5-3	5-7	6-0	6-4	6-8	7-1	7-5	7-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2
100.00	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-1	2-2
125.00	2-0	2-2	2-4	2-6	2-8	2-10	2-11	3-1	3-3	3-4
150.00	2-11	3-2	3-5	3-7	3-10	4-0	4-3	4-5	4-8	4-10
175.00	4-0	4-4	4-7	4-11	5-2	5-6	5-9	6-1	6-4	6-7
200.00	5-3	5-7	6-0	6-5	6-10	7-2	7-7	7-11	8-3	8-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0	2-0
125.00	2-10	2-11	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2
150.00	4-1	4-2	4-2	4-3	4-4	4-4	4-5	4-6	4-6	4-7
175.00	5-7	5-8	5-9	5-10	5-10	5-11	6-0	6-1	6-2	6-3
200.00	7-3	7-5	7-6	7-7	7-8	7-9	7-10	8-0	8-1	8-2
225.00	9-3	9-4	9-6	9-7	9-9	9-10	10-0	10-1	10-2	10-4
250.00	11-5	11-6	11-8	11-10	12-0	12-2	12-4	12-6	12-7	12-9

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-11	1-11	1-11	2-0	2-0	2-0	2-0	2-1	2-1
125.00	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3
150.00	4-2	4-3	4-4	4-4	4-5	4-6	4-6	4-7	4-8	4-8
175.00	5-9	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5
200.00	7-6	7-7	7-8	7-9	7-10	8-0	8-1	8-2	8-3	8-4
225.00	9-5	9-7	9-9	9-10	10-0	10-1	10-3	10-4	10-6	10-7
250.00	11-8	11-10	12-0	12-2	12-4	12-6	12-7	12-9	12-11	13-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-5	4-6	4-6	4-6	4-6	4-7	4-7	4-7	4-8	4-8
175.00	6-1	6-1	6-1	6-2	6-2	6-2	6-3	6-3	6-4	6-4
200.00	7-11	7-11	8-0	8-0	8-1	8-1	8-2	8-2	8-3	8-3
225.00	10-0	10-1	10-1	10-2	10-3	10-3	10-4	10-5	10-5	10-6
250.00	12-4	12-5	12-6	12-7	12-7	12-8	12-9	12-10	12-11	12-11
275.00	14-11	15-0	15-1	15-2	15-3	15-4	15-5	15-6	15-7	15-8
300.00	17-10	17-11	18-0	18-1	18-2	18-4	18-5	18-6	18-7	18-8
325.00	20-11	21-0	21-2	21-3	21-5	21-6	21-7	21-9	21-10	21-11
350.00	24-3	24-5	24-7	24-8	24-10	24-11	25-1	25-3	25-4	25-6
375.00	27-11	28-1	28-3	28-4	28-6	28-8	28-10	29-0	29-2	29-3

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-6	4-6	4-6	4-7	4-7	4-7	4-8	4-8	4-8	4-8
175.00	6-1	6-2	6-2	6-2	6-3	6-3	6-4	6-4	6-4	6-5
200.00	8-0	8-0	8-1	8-1	8-2	8-2	8-3	8-3	8-4	8-4
225.00	10-1	10-2	10-3	10-3	10-4	10-5	10-5	10-6	10-7	10-7
250.00	12-6	12-7	12-7	12-8	12-9	12-10	12-11	12-11	13-0	13-1
275.00	15-1	15-2	15-3	15-4	15-5	15-6	15-7	15-8	15-9	15-10
300.00	18-0	18-1	18-2	18-4	18-5	18-6	18-7	18-8	18-9	18-11
325.00	21-2	21-3	21-4	21-6	21-7	21-9	21-10	21-11	22-1	22-2
350.00	24-6	24-8	24-10	24-11	25-1	25-3	25-4	25-6	25-7	25-9
375.00	28-2	28-4	28-6	28-8	28-10	29-0	29-2	29-3	29-5	29-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-2	8-2	8-3	8-3	8-3	8-3	8-4	8-4	8-4	8-5
225.00	10-4	10-4	10-5	10-5	10-6	10-6	10-6	10-7	10-7	10-7
250.00	12-9	12-10	12-10	12-11	12-11	13-0	13-0	13-0	13-1	13-1
275.00	15-6	15-6	15-7	15-7	15-8	15-8	15-9	15-9	15-10	15-11
300.00	18-5	18-6	18-6	18-7	18-8	18-8	18-9	18-10	18-10	18-11
325.00	21-8	21-9	21-9	21-10	21-11	22-0	22-0	22-1	22-2	22-3
350.00	25-2	25-2	25-3	25-4	25-5	25-6	25-7	25-8	25-9	25-9
375.00	28-10	29-0	29-1	29-2	29-3	29-4	29-5	29-6	29-7	29-8
400.00	32-11	33-0	33-1	33-2	33-3	33-4	33-6	33-7	33-8	33-9
425.00	37-2	37-3	37-5	37-6	37-7	37-9	37-10	37-11	38-1	38-2
450.00	41-9	41-10	42-0	42-1	42-3	42-4	42-6	42-7	42-8	42-10
475.00	46-7	46-8	46-10	47-0	47-1	47-3	47-4	47-6	47-8	47-9
500.00	51-8	51-10	51-11	52-1	52-3	52-5	52-7	52-9	52-10	53-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-3	8-3	8-3	8-3	8-4	8-4	8-4	8-5	8-5	8-5
225.00	10-5	10-5	10-6	10-6	10-6	10-7	10-7	10-7	10-8	10-8
250.00	12-10	12-11	12-11	13-0	13-0	13-0	13-1	13-1	13-2	13-2
275.00	15-7	15-7	15-8	15-8	15-9	15-9	15-10	15-11	15-11	16-0
300.00	18-6	18-7	18-8	18-8	18-9	18-10	18-10	18-11	19-0	19-0
325.00	21-9	21-10	21-11	21-11	22-0	22-1	22-2	22-3	22-3	22-4
350.00	25-3	25-4	25-5	25-6	25-7	25-8	25-9	25-9	25-10	25-11
375.00	29-0	29-1	29-2	29-4	29-5	29-6	29-7	29-8	29-9	29-10
400.00	33-1	33-2	33-3	33-4	33-6	33-7	33-8	33-9	33-10	33-11
425.00	37-4	37-6	37-7	37-9	37-10	37-11	38-1	38-2	38-3	38-5
450.00	41-11	42-1	42-2	42-4	42-5	42-7	42-8	42-10	42-11	43-1
475.00	46-10	46-11	47-1	47-3	47-4	47-6	47-8	47-9	47-11	48-1
500.00	51-11	52-1	52-3	52-5	52-7	52-9	52-10	53-0	53-2	53-4

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STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	13-1	13-1	13-1	13-2	13-2	13-2	13-3	13-3	13-3	13-3
275.00	15-10	15-10	15-11	15-11	15-11	16-0	16-0	16-0	16-1	16-1
300.00	18-10	18-11	18-11	19-0	19-0	19-0	19-1	19-1	19-2	19-2
325.00	22-2	22-2	22-3	22-3	22-4	22-4	22-5	22-5	22-6	22-6
350.00	25-9	25-9	25-10	25-10	25-11	25-11	26-0	26-1	26-1	26-2
375.00	29-7	29-7	29-8	29-9	29-9	29-10	29-10	29-11	30-0	30-0
400.00	33-8	33-9	33-9	33-10	33-11	34-0	34-0	34-1	34-2	34-3
425.00	38-1	38-1	38-2	38-3	38-4	38-5	38-6	38-6	38-7	38-8
450.00	42-9	42-9	42-10	42-11	43-0	43-1	43-2	43-3	43-4	43-5
475.00	47-8	47-9	47-10	47-11	48-0	48-1	48-2	48-3	48-4	48-5
500.00	52-11	53-0	53-1	53-2	53-3	53-4	53-5	53-7	53-8	53-9
525.00	58-5	58-6	58-7	58-8	58-10	58-11	59-0	59-2	59-3	59-4
550.00	64-2	64-4	64-5	64-6	64-8	64-9	64-11	65-0	65-1	65-3
575.00	70-3	70-5	70-6	70-8	70-9	70-11	71-0	71-2	71-3	71-5
600.00	76-8	76-9	76-11	77-1	77-2	77-4	77-6	77-7	77-9	77-11
625.00	83-4	83-5	83-7	83-9	83-11	84-1	84-3	84-4	84-6	84-8

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	13-1	13-2	13-2	13-2	13-3	13-3	13-3	13-3	13-4	13-4
275.00	15-11	15-11	15-11	16-0	16-0	16-0	16-1	16-1	16-1	16-2
300.00	18-11	18-11	19-0	19-0	19-1	19-1	19-2	19-2	19-2	19-3
325.00	22-3	22-3	22-4	22-4	22-5	22-5	22-6	22-6	22-7	22-7
350.00	25-10	25-10	25-11	25-11	26-0	26-0	26-1	26-2	26-2	26-3
375.00	29-8	29-9	29-9	29-10	29-10	29-11	30-0	30-0	30-1	30-2
400.00	33-9	33-10	33-11	34-0	34-0	34-1	34-2	34-3	34-3	34-4
425.00	38-2	38-3	38-4	38-5	38-6	38-6	38-7	38-8	38-9	38-10
450.00	42-10	42-11	43-0	43-1	43-2	43-3	43-4	43-5	43-6	43-7
475.00	47-10	47-11	48-0	48-1	48-2	48-3	48-4	48-5	48-6	48-7
500.00	53-1	53-2	53-3	53-4	53-5	53-7	53-8	53-9	53-10	53-11
525.00	58-7	58-8	58-10	58-11	59-0	59-2	59-3	59-4	59-5	59-7
550.00	64-5	64-6	64-8	64-9	64-10	65-0	65-1	65-3	65-4	65-6
575.00	70-6	70-8	70-9	70-11	71-0	71-2	71-3	71-5	71-7	71-8
600.00	76-11	77-0	77-2	77-4	77-6	77-7	77-9	77-11	78-1	78-2
625.00	83-7	83-9	83-11	84-1	84-3	84-4	84-6	84-8	84-10	85-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	3.295	4.17	994	4.15	1000*
0	0	0	0	1.12	3.93	358	3.88	363
30	0	0	0	1.12	4.08	345	4.02	350
40	0	0	0	1.12	4.13	341	4.07	346
50	0	0	0	1.12	4.18	337	4.12	342
60	0	0	0	1.12	4.23	334	4.17	338
70	0	0	0	1.12	4.27	330	4.21	335
80	0	0	0	1.12	4.32	327	4.26	331
90	0	0	0	1.12	4.37	323	4.31	327
100	0	0	0	1.12	4.41	320	4.35	324
110	0	0	0	1.12	4.44	318	4.4	321
120	0	0	0	1.12	4.47	316	4.44	318
130	0	0	0	1.12	4.5	313	4.49	315
167	0	0	0	1.12	4.61	306	4.6	307
212	0	0	0	1.12	4.74	298	4.73	299

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	3.295	16.98	999	16.95	1000*
0	0	0	0	1.12	16.74	344	16.68	345
30	0	0	0	1.12	16.88	341	16.83	342
40	0	0	0	1.12	16.93	340	16.87	341
50	0	0	0	1.12	16.98	339	16.92	340
60	0	0	0	1.12	17.03	338	16.97	340
70	0	0	0	1.12	17.08	337	17.02	339
80	0	0	0	1.12	17.13	337	17.07	338
90	0	0	0	1.12	17.18	336	17.11	337
100	0	0	0	1.12	17.22	335	17.16	336
110	0	0	0	1.12	17.26	334	17.21	335
120	0	0	0	1.12	17.29	334	17.26	334
130	0	0	0	1.12	17.33	333	17.3	333
167	0	0	0	1.12	17.44	331	17.43	331
212	0	0	0	1.12	17.58	328	17.58	328

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.135

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	3.295	39.7	999	39.68	1000*
0	0	0	0	1.12	39.46	342	39.41	342
30	0	0	0	1.12	39.61	340	39.55	341
40	0	0	0	1.12	39.66	340	39.6	340
50	0	0	0	1.12	39.71	340	39.65	340
60	0	0	0	1.12	39.76	339	39.7	340
70	0	0	0	1.12	39.81	339	39.74	339
80	0	0	0	1.12	39.85	339	39.79	339
90	0	0	0	1.12	39.9	338	39.84	339
100	0	0	0	1.12	39.95	338	39.89	338
110	0	0	0	1.12	39.99	338	39.94	338
120	0	0	0	1.12	40.02	337	39.98	338
130	0	0	0	1.12	40.06	337	40.03	337
167	0	0	0	1.12	40.18	336	40.17	336
212	0	0	0	1.12	40.32	335	40.31	335

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	3.295	75.37	1000	75.35	1000*
0	0	0	0	1.12	75.14	341	75.08	341
30	0	0	0	1.12	75.28	340	75.23	340
40	0	0	0	1.12	75.33	340	75.27	340
50	0	0	0	1.12	75.38	340	75.32	340
60	0	0	0	1.12	75.43	340	75.37	340
70	0	0	0	1.12	75.48	339	75.42	340
80	0	0	0	1.12	75.52	339	75.46	340
90	0	0	0	1.12	75.57	339	75.51	339
100	0	0	0	1.12	75.62	339	75.56	339
110	0	0	0	1.12	75.66	339	75.61	339
120	0	0	0	1.12	75.69	339	75.65	339
130	0	0	0	1.12	75.73	339	75.7	339
167	0	0	0	1.12	75.84	338	75.84	338
212	0	0	0	1.12	75.99	338	75.98	338

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.136

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-3	2-3	2-3	2-4	2-4	2-4	2-5	2-5	2-5	2-6
100.00	4-0	4-0	4-1	4-1	4-2	4-3	4-3	4-4	4-4	4-5
125.00	6-3	6-4	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11
150.00	9-0	9-1	9-2	9-4	9-5	9-6	9-7	9-9	9-10	9-11
175.00	12-3	12-5	12-6	12-8	12-10	13-0	13-1	13-3	13-5	13-6
200.00	16-0	16-2	16-5	16-7	16-9	17-0	17-2	17-4	17-6	17-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-3	2-4	2-4	2-4	2-4	2-5	2-5	2-5	2-6	2-6
100.00	4-0	4-1	4-2	4-2	4-3	4-3	4-4	4-4	4-5	4-5
125.00	6-4	6-5	6-6	6-6	6-7	6-8	6-9	6-10	6-11	6-11
150.00	9-1	9-2	9-4	9-5	9-6	9-8	9-9	9-10	10-0	10-0
175.00	12-5	12-7	12-8	12-10	13-0	13-2	13-4	13-5	13-7	13-8
200.00	16-3	16-5	16-8	16-10	17-0	17-3	17-5	17-7	17-9	17-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.137

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-2	4-2	4-2	4-2	4-3	4-3	4-3	4-3	4-3	4-3
125.00	6-6	6-6	6-7	6-7	6-7	6-7	6-8	6-8	6-8	6-8
150.00	9-5	9-5	9-5	9-6	9-6	9-6	9-7	9-7	9-7	9-8
175.00	12-10	12-10	12-11	12-11	13-0	13-0	13-0	13-1	13-1	13-2
200.00	16-9	16-10	16-10	16-11	17-0	17-0	17-1	17-1	17-2	17-2
225.00	21-3	21-4	21-5	21-6	21-6	21-7	21-8	21-9	21-9	21-10
250.00	26-4	26-5	26-6	26-7	26-8	26-9	26-10	26-11	27-0	27-0

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-2	4-2	4-2	4-3	4-3	4-3	4-3	4-3	4-3	4-3
125.00	6-6	6-7	6-7	6-7	6-7	6-8	6-8	6-8	6-8	6-8
150.00	9-5	9-5	9-6	9-6	9-6	9-7	9-7	9-7	9-8	9-8
175.00	12-10	12-11	12-11	13-0	13-0	13-1	13-1	13-1	13-2	13-2
200.00	16-10	16-11	16-11	17-0	17-0	17-1	17-2	17-2	17-3	17-3
225.00	21-4	21-5	21-6	21-7	21-7	21-8	21-9	21-10	21-10	21-11
250.00	26-5	26-6	26-7	26-8	26-9	26-10	26-11	27-0	27-1	27-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.138

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	9-9	9-9	9-9	9-9	9-9	9-9	9-9	9-10	9-10	9-10
175.00	13-3	13-3	13-3	13-4	13-4	13-4	13-4	13-4	13-4	13-5
200.00	17-4	17-4	17-5	17-5	17-5	17-5	17-6	17-6	17-6	17-6
225.00	22-0	22-0	22-1	22-1	22-1	22-2	22-2	22-2	22-3	22-3
250.00	27-3	27-3	27-4	27-4	27-5	27-5	27-5	27-6	27-6	27-7
275.00	33-1	33-1	33-2	33-2	33-3	33-3	33-4	33-4	33-5	33-5
300.00	39-6	39-7	39-7	39-8	39-8	39-9	39-10	39-10	39-11	39-11
325.00	46-7	46-7	46-8	46-9	46-9	46-10	46-11	46-11	47-0	47-1
350.00	54-2	54-3	54-4	54-5	54-6	54-6	54-7	54-8	54-9	54-10
375.00	62-6	62-7	62-8	62-9	62-10	62-11	63-0	63-0	63-1	63-2

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	9-9	9-9	9-9	9-9	9-9	9-9	9-10	9-10	9-10	9-10
175.00	13-3	13-3	13-4	13-4	13-4	13-4	13-4	13-5	13-5	13-5
200.00	17-4	17-5	17-5	17-5	17-5	17-6	17-6	17-6	17-6	17-7
225.00	22-0	22-1	22-1	22-1	22-2	22-2	22-2	22-3	22-3	22-3
250.00	27-3	27-4	27-4	27-5	27-5	27-5	27-6	27-6	27-7	27-7
275.00	33-2	33-2	33-2	33-3	33-3	33-4	33-4	33-5	33-5	33-6
300.00	39-7	39-7	39-8	39-8	39-9	39-10	39-10	39-11	39-11	40-0
325.00	46-7	46-8	46-9	46-9	46-10	46-11	46-11	47-0	47-1	47-1
350.00	54-3	54-4	54-5	54-6	54-7	54-7	54-8	54-9	54-10	54-11
375.00	62-7	62-8	62-9	62-10	62-11	63-0	63-1	63-2	63-3	63-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.139

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	18-2	18-3	18-3	18-3	18-3	18-3	18-3	18-3	18-3	18-4
225.00	23-1	23-1	23-2	23-2	23-2	23-2	23-2	23-2	23-3	23-3
250.00	28-7	28-8	28-8	28-8	28-8	28-8	28-9	28-9	28-9	28-9
275.00	34-9	34-9	34-9	34-10	34-10	34-10	34-10	34-11	34-11	34-11
300.00	41-6	41-6	41-7	41-7	41-7	41-8	41-8	41-8	41-8	41-9
325.00	48-11	48-11	49-0	49-0	49-0	49-1	49-1	49-1	49-2	49-2
350.00	57-0	57-0	57-1	57-1	57-1	57-2	57-2	57-3	57-3	57-4
375.00	65-9	65-9	65-10	65-10	65-11	65-11	66-0	66-0	66-1	66-1
400.00	75-2	75-3	75-3	75-4	75-4	75-5	75-6	75-6	75-7	75-7
425.00	85-4	85-5	85-5	85-6	85-7	85-7	85-8	85-9	85-9	85-10
450.00	96-3	96-4	96-4	96-5	96-6	96-7	96-7	96-8	96-9	96-10
475.00	107-11	108-0	108-0	108-1	108-2	108-3	108-4	108-5	108-5	108-6
500.00	120-4	120-5	120-6	120-7	120-8	120-9	120-10	120-11	121-0	121-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	18-3	18-3	18-3	18-3	18-3	18-3	18-3	18-3	18-4	18-4
225.00	23-1	23-2	23-2	23-2	23-2	23-2	23-2	23-3	23-3	23-3
250.00	28-8	28-8	28-8	28-8	28-8	28-9	28-9	28-9	28-9	28-9
275.00	34-9	34-9	34-10	34-10	34-10	34-10	34-11	34-11	34-11	34-11
300.00	41-6	41-7	41-7	41-7	41-8	41-8	41-8	41-9	41-9	41-9
325.00	48-11	49-0	49-0	49-0	49-1	49-1	49-2	49-2	49-2	49-3
350.00	57-0	57-1	57-1	57-2	57-2	57-2	57-3	57-3	57-4	57-4
375.00	65-9	65-10	65-10	65-11	65-11	66-0	66-0	66-1	66-1	66-2
400.00	75-3	75-3	75-4	75-5	75-5	75-6	75-6	75-7	75-7	75-8
425.00	85-5	85-6	85-6	85-7	85-8	85-8	85-9	85-9	85-10	85-11
450.00	96-4	96-4	96-5	96-6	96-7	96-7	96-8	96-9	96-10	96-10
475.00	108-0	108-1	108-1	108-2	108-3	108-4	108-5	108-6	108-7	108-7
500.00	120-5	120-6	120-7	120-8	120-9	120-10	120-11	121-0	121-1	121-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.140

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	3.295	2.78	1486	2.75	1500*
0	0	0	0	1.12	2.31	607	2.21	635
30	0	0	0	1.12	2.54	552	2.44	576
40	0	0	0	1.12	2.62	536	2.51	559
50	0	0	0	1.12	2.69	522	2.58	544
60	0	0	0	1.12	2.76	509	2.65	530
70	0	0	0	1.12	2.83	497	2.72	516
80	0	0	0	1.12	2.9	485	2.79	504
90	0	0	0	1.12	2.96	474	2.85	492
100	0	0	0	1.12	3.03	464	2.92	481
110	0	0	0	1.12	3.09	455	2.98	471
120	0	0	0	1.12	3.15	446	3.05	461
130	0	0	0	1.12	3.19	440	3.11	452
167	0	0	0	1.12	3.33	422	3.32	424
212	0	0	0	1.12	3.5	402	3.48	404

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	3.295	11.15	1496	11.12	1500*
0	0	0	0	1.12	10.68	530	10.58	535
30	0	0	0	1.12	10.9	520	10.8	525
40	0	0	0	1.12	10.98	516	10.87	521
50	0	0	0	1.12	11.05	513	10.94	518
60	0	0	0	1.12	11.12	510	11.01	515
70	0	0	0	1.12	11.2	506	11.08	512
80	0	0	0	1.12	11.27	503	11.15	508
90	0	0	0	1.12	11.34	500	11.22	505
100	0	0	0	1.12	11.41	497	11.29	502
110	0	0	0	1.12	11.48	494	11.36	499
120	0	0	0	1.12	11.55	491	11.43	496
130	0	0	0	1.12	11.62	488	11.5	493
167	0	0	0	1.12	11.79	482	11.76	483
212	0	0	0	1.12	11.99	474	11.98	474

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.141

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	3.295	25.45	1498	25.42	1500*
0	0	0	0	1.12	24.99	518	24.88	520
30	0	0	0	1.12	25.21	514	25.1	516
40	0	0	0	1.12	25.28	513	25.17	515
50	0	0	0	1.12	25.36	511	25.24	513
60	0	0	0	1.12	25.43	510	25.32	512
70	0	0	0	1.12	25.5	508	25.39	511
80	0	0	0	1.12	25.58	507	25.46	509
90	0	0	0	1.12	25.65	506	25.53	508
100	0	0	0	1.12	25.72	504	25.6	507
110	0	0	0	1.12	25.79	503	25.67	505
120	0	0	0	1.12	25.86	502	25.74	504
130	0	0	0	1.12	25.94	500	25.81	503
167	0	0	0	1.12	26.12	497	26.08	498
212	0	0	0	1.12	26.33	493	26.32	494

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	3.295	46.33	1499	46.3	1500*
0	0	0	0	1.12	45.86	514	45.76	515
30	0	0	0	1.12	46.08	512	45.97	513
40	0	0	0	1.12	46.16	511	46.05	512
50	0	0	0	1.12	46.23	511	46.12	512
60	0	0	0	1.12	46.3	510	46.19	511
70	0	0	0	1.12	46.38	509	46.26	510
80	0	0	0	1.12	46.45	508	46.33	510
90	0	0	0	1.12	46.52	508	46.4	509
100	0	0	0	1.12	46.59	507	46.47	508
110	0	0	0	1.12	46.67	506	46.55	507
120	0	0	0	1.12	46.74	506	46.62	507
130	0	0	0	1.12	46.81	505	46.69	506
167	0	0	0	1.12	47	503	46.95	503
212	0	0	0	1.12	47.22	501	47.2	501

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.142

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	3.295	74.87	1500	74.84	1500*
0	0	0	0	1.12	74.4	512	74.3	513
30	0	0	0	1.12	74.62	511	74.52	512
40	0	0	0	1.12	74.7	511	74.59	511
50	0	0	0	1.12	74.77	510	74.66	511
60	0	0	0	1.12	74.84	510	74.73	510
70	0	0	0	1.12	74.92	509	74.8	510
80	0	0	0	1.12	74.99	509	74.87	510
90	0	0	0	1.12	75.06	509	74.95	509
100	0	0	0	1.12	75.14	508	75.02	509
110	0	0	0	1.12	75.21	508	75.09	508
120	0	0	0	1.12	75.28	507	75.16	508
130	0	0	0	1.12	75.35	507	75.23	508
167	0	0	0	1.12	75.54	506	75.49	506
212	0	0	0	1.12	75.76	505	75.75	505

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-8	1-8
100.00	2-4	2-5	2-6	2-7	2-8	2-9	2-9	2-10	2-11	3-0
125.00	3-8	3-10	3-11	4-0	4-2	4-3	4-4	4-6	4-7	4-8
150.00	5-4	5-6	5-8	5-10	6-0	6-2	6-3	6-5	6-7	6-9
175.00	7-3	7-6	7-8	7-11	8-2	8-4	8-7	8-9	8-11	9-2
200.00	9-6	9-9	10-1	10-4	10-8	10-11	11-2	11-5	11-9	12-0

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-5	1-5	1-6	1-6	1-7	1-7	1-8	1-8	1-8	1-9
100.00	2-6	2-7	2-7	2-8	2-9	2-10	2-11	3-0	3-0	3-1
125.00	3-10	4-0	4-1	4-2	4-4	4-5	4-6	4-8	4-9	4-10
150.00	5-7	5-9	5-11	6-1	6-3	6-4	6-6	6-8	6-10	7-0
175.00	7-7	7-10	8-0	8-3	8-6	8-8	8-11	9-1	9-4	9-6
200.00	9-11	10-2	10-6	10-9	11-1	11-4	11-7	11-11	12-2	12-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.144

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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-8	2-8	2-9	2-9	2-9	2-9	2-9	2-10	2-10	2-10
125.00	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-4	4-5	4-5
150.00	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5
175.00	8-2	8-3	8-4	8-4	8-5	8-6	8-6	8-7	8-8	8-8
200.00	10-9	10-10	10-10	10-11	11-0	11-1	11-2	11-3	11-4	11-4
225.00	13-7	13-8	13-9	13-10	13-11	14-1	14-2	14-3	14-4	14-5
250.00	16-9	16-11	17-0	17-2	17-3	17-4	17-6	17-7	17-8	17-10

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-8	2-9	2-9	2-9	2-9	2-9	2-10	2-10	2-10	2-10
125.00	4-3	4-3	4-3	4-4	4-4	4-4	4-5	4-5	4-5	4-6
150.00	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5	6-5
175.00	8-3	8-4	8-5	8-5	8-6	8-7	8-7	8-8	8-9	8-9
200.00	10-10	10-11	11-0	11-1	11-1	11-2	11-3	11-4	11-5	11-6
225.00	13-9	13-10	13-11	14-0	14-1	14-2	14-3	14-4	14-6	14-7
250.00	17-0	17-1	17-2	17-4	17-5	17-6	17-8	17-9	17-10	18-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.145

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-3	6-3	6-3	6-3	6-3	6-4	6-4	6-4	6-4	6-4
175.00	8-6	8-6	8-6	8-6	8-7	8-7	8-7	8-8	8-8	8-8
200.00	11-1	11-1	11-2	11-2	11-2	11-3	11-3	11-3	11-4	11-4
225.00	14-0	14-1	14-1	14-2	14-2	14-3	14-3	14-4	14-4	14-5
250.00	17-4	17-5	17-5	17-6	17-6	17-7	17-8	17-8	17-9	17-9
275.00	21-0	21-1	21-1	21-2	21-3	21-4	21-4	21-5	21-6	21-6
300.00	25-0	25-1	25-2	25-3	25-4	25-5	25-6	25-6	25-7	25-8
325.00	29-5	29-6	29-7	29-8	29-9	29-10	29-11	30-0	30-1	30-2
350.00	34-2	34-3	34-5	34-6	34-7	34-8	34-9	34-10	35-0	35-1
375.00	39-4	39-5	39-6	39-8	39-9	39-11	40-0	40-1	40-3	40-4

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-3	6-3	6-3	6-4	6-4	6-4	6-4	6-4	6-5	6-5
175.00	8-6	8-6	8-7	8-7	8-7	8-7	8-8	8-8	8-8	8-9
200.00	11-1	11-2	11-2	11-3	11-3	11-3	11-4	11-4	11-4	11-5
225.00	14-1	14-1	14-2	14-2	14-3	14-3	14-4	14-4	14-5	14-5
250.00	17-5	17-5	17-6	17-7	17-7	17-8	17-9	17-9	17-10	17-10
275.00	21-1	21-2	21-3	21-3	21-4	21-5	21-5	21-6	21-7	21-8
300.00	25-2	25-3	25-3	25-4	25-5	25-6	25-7	25-8	25-9	25-10
325.00	29-7	29-8	29-9	29-10	29-11	30-0	30-1	30-2	30-3	30-4
350.00	34-4	34-5	34-6	34-8	34-9	34-10	34-11	35-0	35-2	35-3
375.00	39-6	39-7	39-9	39-10	39-11	40-1	40-2	40-3	40-5	40-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-4	11-4	11-4	11-5	11-5	11-5	11-5	11-5	11-6	11-6
225.00	14-4	14-5	14-5	14-5	14-5	14-6	14-6	14-6	14-6	14-7
250.00	17-9	17-9	17-10	17-10	17-10	17-11	17-11	17-11	18-0	18-0
275.00	21-6	21-6	21-7	21-7	21-8	21-8	21-8	21-9	21-9	21-10
300.00	25-8	25-8	25-8	25-9	25-9	25-10	25-10	25-11	25-11	26-0
325.00	30-2	30-2	30-3	30-3	30-4	30-4	30-5	30-5	30-6	30-7
350.00	35-0	35-1	35-1	35-2	35-3	35-3	35-4	35-5	35-5	35-6
375.00	40-3	40-4	40-5	40-5	40-6	40-7	40-8	40-8	40-9	40-10
400.00	45-11	46-0	46-1	46-1	46-2	46-3	46-4	46-5	46-6	46-7
425.00	51-11	52-0	52-1	52-2	52-3	52-4	52-5	52-6	52-7	52-8
450.00	58-4	58-5	58-6	58-8	58-9	58-10	58-11	59-0	59-1	59-2
475.00	65-2	65-3	65-5	65-6	65-7	65-8	65-10	65-11	66-0	66-1
500.00	72-5	72-6	72-8	72-9	72-10	73-0	73-1	73-3	73-4	73-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-4	11-4	11-5	11-5	11-5	11-5	11-6	11-6	11-6	11-6
225.00	14-5	14-5	14-5	14-5	14-6	14-6	14-6	14-7	14-7	14-7
250.00	17-9	17-10	17-10	17-10	17-11	17-11	17-11	18-0	18-0	18-0
275.00	21-7	21-7	21-7	21-8	21-8	21-9	21-9	21-9	21-10	21-10
300.00	25-8	25-9	25-9	25-10	25-10	25-11	25-11	26-0	26-0	26-1
325.00	30-2	30-3	30-4	30-4	30-5	30-5	30-6	30-6	30-7	30-8
350.00	35-1	35-2	35-2	35-3	35-4	35-4	35-5	35-6	35-6	35-7
375.00	40-4	40-5	40-6	40-7	40-7	40-8	40-9	40-10	40-10	40-11
400.00	46-0	46-1	46-2	46-3	46-4	46-5	46-5	46-6	46-7	46-8
425.00	52-1	52-2	52-3	52-4	52-5	52-6	52-7	52-8	52-9	52-10
450.00	58-6	58-7	58-8	58-9	58-10	59-0	59-1	59-2	59-3	59-4
475.00	65-4	65-5	65-7	65-8	65-9	65-10	66-0	66-1	66-2	66-3
500.00	72-7	72-8	72-10	72-11	73-1	73-2	73-3	73-5	73-6	73-8

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.147

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	18-3	18-3	18-3	18-3	18-4	18-4	18-4	18-4	18-4	18-5
275.00	22-1	22-1	22-2	22-2	22-2	22-2	22-3	22-3	22-3	22-3
300.00	26-4	26-4	26-5	26-5	26-5	26-5	26-6	26-6	26-6	26-7
325.00	30-11	31-0	31-0	31-0	31-1	31-1	31-1	31-2	31-2	31-3
350.00	36-0	36-0	36-0	36-1	36-1	36-2	36-2	36-2	36-3	36-3
375.00	41-4	41-5	41-5	41-6	41-6	41-7	41-7	41-8	41-8	41-9
400.00	47-2	47-3	47-3	47-4	47-4	47-5	47-5	47-6	47-6	47-7
425.00	53-4	53-5	53-6	53-6	53-7	53-8	53-8	53-9	53-9	53-10
450.00	60-0	60-0	60-1	60-2	60-3	60-3	60-4	60-5	60-5	60-6
475.00	67-0	67-1	67-2	67-2	67-3	67-4	67-5	67-5	67-6	67-7
500.00	74-5	74-6	74-7	74-8	74-9	74-10	74-10	74-11	75-0	75-1
525.00	82-4	82-5	82-6	82-7	82-8	82-8	82-9	82-10	82-11	83-0
550.00	90-7	90-8	90-9	90-10	90-11	91-1	91-2	91-3	91-4	91-5
575.00	99-4	99-5	99-6	99-8	99-9	99-10	99-11	100-0	100-1	100-3
600.00	108-6	108-8	108-9	108-10	108-11	109-1	109-2	109-3	109-4	109-6
625.00	118-2	118-3	118-5	118-6	118-7	118-9	118-10	119-0	119-1	119-2

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	18-3	18-3	18-3	18-4	18-4	18-4	18-4	18-4	18-5	18-5
275.00	22-1	22-2	22-2	22-2	22-2	22-3	22-3	22-3	22-3	22-4
300.00	26-4	26-5	26-5	26-5	26-6	26-6	26-6	26-6	26-7	26-7
325.00	31-0	31-0	31-1	31-1	31-1	31-2	31-2	31-2	31-3	31-3
350.00	36-0	36-1	36-1	36-1	36-2	36-2	36-3	36-3	36-3	36-4
375.00	41-5	41-6	41-6	41-7	41-7	41-7	41-8	41-8	41-9	41-9
400.00	47-3	47-3	47-4	47-4	47-5	47-6	47-6	47-7	47-7	47-8
425.00	53-5	53-6	53-7	53-7	53-8	53-8	53-9	53-10	53-10	53-11
450.00	60-1	60-2	60-2	60-3	60-4	60-4	60-5	60-6	60-6	60-7
475.00	67-1	67-2	67-3	67-4	67-4	67-5	67-6	67-7	67-7	67-8
500.00	74-7	74-7	74-8	74-9	74-10	74-11	75-0	75-1	75-2	75-3
525.00	82-5	82-6	82-7	82-8	82-9	82-10	82-11	83-0	83-1	83-2
550.00	90-9	90-10	90-11	91-0	91-1	91-2	91-3	91-4	91-5	91-7
575.00	99-6	99-7	99-8	99-9	99-11	100-0	100-1	100-2	100-3	100-5
600.00	108-8	108-9	108-11	109-0	109-1	109-3	109-4	109-5	109-7	109-8
625.00	118-4	118-5	118-7	118-8	118-10	118-11	119-0	119-2	119-3	119-5

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SHEET 148 OF 198

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.148

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	3.295	2.08	1980	2.06	2000*
0	0	0	0	1.12	1.36	1032	1.22	1146
30	0	0	0	1.12	1.65	848	1.49	942
40	0	0	0	1.12	1.75	802	1.58	888
50	0	0	0	1.12	1.84	761	1.67	840
60	0	0	0	1.12	1.93	725	1.76	798
70	0	0	0	1.12	2.02	694	1.84	760
80	0	0	0	1.12	2.11	666	1.93	727
90	0	0	0	1.12	2.19	640	2.01	696
100	0	0	0	1.12	2.27	617	2.1	669
110	0	0	0	1.12	2.35	596	2.18	644
120	0	0	0	1.12	2.43	577	2.26	622
130	0	0	0	1.12	2.51	560	2.33	601
167	0	0	0	1.12	2.68	525	2.61	539
212	0	0	0	1.12	2.86	490	2.84	494

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	3.295	8.31	1996	8.29	2000*
0	0	0	0	1.12	7.54	747	7.37	764
30	0	0	0	1.12	7.85	718	7.67	735
40	0	0	0	1.12	7.95	709	7.76	726
50	0	0	0	1.12	8.05	701	7.86	717
60	0	0	0	1.12	8.14	692	7.96	708
70	0	0	0	1.12	8.24	684	8.05	700
80	0	0	0	1.12	8.33	677	8.15	692
90	0	0	0	1.12	8.43	669	8.24	684
100	0	0	0	1.12	8.52	662	8.33	677
110	0	0	0	1.12	8.61	655	8.42	670
120	0	0	0	1.12	8.71	648	8.51	663
130	0	0	0	1.12	8.8	642	8.6	656
167	0	0	0	1.12	9.08	622	8.93	632
212	0	0	0	1.12	9.33	606	9.3	607

* Design Condition

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SHEET 149 OF 198

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.149

TABLE OF CONTENTS

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	3.295	18.84	1998	18.83	2000*
0	0	0	0	1.12	18.08	707	17.9	714
30	0	0	0	1.12	18.38	696	18.2	703
40	0	0	0	1.12	18.47	692	18.29	699
50	0	0	0	1.12	18.57	689	18.39	695
60	0	0	0	1.12	18.67	685	18.49	692
70	0	0	0	1.12	18.77	682	18.58	689
80	0	0	0	1.12	18.87	678	18.68	685
90	0	0	0	1.12	18.96	675	18.77	682
100	0	0	0	1.12	19.06	672	18.86	678
110	0	0	0	1.12	19.15	669	18.96	675
120	0	0	0	1.12	19.25	665	19.05	672
130	0	0	0	1.12	19.34	662	19.15	669
167	0	0	0	1.12	19.66	652	19.49	657
212	0	0	0	1.12	19.93	643	19.9	644

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	3.295	33.92	1999	33.9	2000*
0	0	0	0	1.12	33.15	694	32.98	698
30	0	0	0	1.12	33.45	688	33.27	692
40	0	0	0	1.12	33.55	687	33.36	690
50	0	0	0	1.12	33.64	685	33.46	688
60	0	0	0	1.12	33.74	683	33.56	686
70	0	0	0	1.12	33.84	681	33.65	685
80	0	0	0	1.12	33.94	679	33.75	683
90	0	0	0	1.12	34.03	677	33.84	681
100	0	0	0	1.12	34.13	675	33.94	679
110	0	0	0	1.12	34.23	674	34.03	677
120	0	0	0	1.12	34.32	672	34.13	676
130	0	0	0	1.12	34.42	670	34.22	674
167	0	0	0	1.12	34.76	664	34.57	667
212	0	0	0	1.12	35.04	659	34.99	660

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.150

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	3.295	53.9	1999	53.88	2000*
0	0	0	0	1.12	53.14	689	52.97	691
30	0	0	0	1.12	53.43	685	53.25	687
40	0	0	0	1.12	53.53	684	53.35	686
50	0	0	0	1.12	53.63	683	53.45	685
60	0	0	0	1.12	53.73	682	53.54	684
70	0	0	0	1.12	53.83	681	53.64	683
80	0	0	0	1.12	53.92	679	53.73	682
90	0	0	0	1.12	54.02	678	53.83	680
100	0	0	0	1.12	54.12	677	53.92	679
110	0	0	0	1.12	54.21	676	54.02	678
120	0	0	0	1.12	54.31	675	54.11	677
130	0	0	0	1.12	54.41	674	54.21	676
167	0	0	0	1.12	54.75	670	54.56	672
212	0	0	0	1.12	55.04	667	54.98	667

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.151

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3
100.00	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
125.00	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-2	3-3	3-5
150.00	3-2	3-4	3-7	3-9	3-11	4-2	4-4	4-6	4-9	4-11
175.00	4-3	4-7	4-10	5-1	5-5	5-8	5-11	6-2	6-5	6-8
200.00	5-7	5-11	6-4	6-8	7-0	7-5	7-9	8-1	8-5	8-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-3	1-4
100.00	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
125.00	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-5	3-7	3-8
150.00	3-6	3-9	3-11	4-2	4-4	4-7	4-9	4-11	5-1	5-4
175.00	4-9	5-1	5-4	5-8	5-11	6-2	6-6	6-9	7-0	7-3
200.00	6-3	6-7	7-0	7-5	7-9	8-1	8-5	8-9	9-1	9-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-11	1-11	1-11	2-0	2-0	2-0	2-0	2-1	2-1	2-1
125.00	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-3
150.00	4-3	4-4	4-4	4-5	4-6	4-6	4-7	4-8	4-8	4-9
175.00	5-10	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-5
200.00	7-7	7-8	7-9	7-10	7-11	8-1	8-2	8-3	8-4	8-5
225.00	9-7	9-9	9-10	9-11	10-1	10-2	10-4	10-5	10-7	10-8
250.00	11-10	12-0	12-2	12-4	12-5	12-7	12-9	12-11	13-0	13-2

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-11	2-0	2-0	2-0	2-0	2-1	2-1	2-1	2-2	2-2
125.00	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-3	3-4	3-4
150.00	4-4	4-5	4-6	4-6	4-7	4-8	4-8	4-9	4-9	4-10
175.00	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-5	6-6	6-7
200.00	7-9	7-10	7-11	8-1	8-2	8-3	8-4	8-5	8-6	8-7
225.00	9-10	9-11	10-1	10-2	10-4	10-5	10-7	10-8	10-10	10-11
250.00	12-1	12-3	12-5	12-7	12-9	12-11	13-0	13-2	13-4	13-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.153

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-6	4-6	4-7	4-7	4-7	4-8	4-8	4-8	4-8	4-9
175.00	6-2	6-2	6-2	6-3	6-3	6-4	6-4	6-4	6-5	6-5
200.00	8-0	8-1	8-1	8-2	8-2	8-3	8-3	8-4	8-4	8-5
225.00	10-2	10-3	10-3	10-4	10-5	10-5	10-6	10-6	10-7	10-8
250.00	12-7	12-7	12-8	12-9	12-10	12-11	12-11	13-0	13-1	13-2
275.00	15-2	15-3	15-4	15-5	15-6	15-7	15-8	15-9	15-10	15-11
300.00	18-1	18-2	18-4	18-5	18-6	18-7	18-8	18-9	18-10	19-0
325.00	21-3	21-4	21-6	21-7	21-9	21-10	21-11	22-1	22-2	22-3
350.00	24-8	24-10	24-11	25-1	25-2	25-4	25-6	25-7	25-9	25-10
375.00	28-4	28-6	28-8	28-10	29-0	29-1	29-3	29-5	29-7	29-9

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-7	4-7	4-7	4-8	4-8	4-8	4-8	4-9	4-9	4-9
175.00	6-2	6-3	6-3	6-4	6-4	6-4	6-5	6-5	6-6	6-6
200.00	8-1	8-2	8-2	8-3	8-3	8-4	8-4	8-5	8-5	8-6
225.00	10-3	10-4	10-4	10-5	10-6	10-6	10-7	10-8	10-8	10-9
250.00	12-8	12-9	12-10	12-11	12-11	13-0	13-1	13-2	13-3	13-3
275.00	15-4	15-5	15-6	15-7	15-8	15-9	15-10	15-11	16-0	16-1
300.00	18-3	18-5	18-6	18-7	18-8	18-9	18-10	19-0	19-1	19-2
325.00	21-6	21-7	21-8	21-10	21-11	22-1	22-2	22-3	22-5	22-6
350.00	24-11	25-1	25-2	25-4	25-6	25-7	25-9	25-10	26-0	26-1
375.00	28-8	28-10	28-11	29-1	29-3	29-5	29-7	29-9	29-10	30-0

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STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-3	8-3	8-3	8-4	8-4	8-4	8-5	8-5	8-5	8-5
225.00	10-5	10-6	10-6	10-6	10-7	10-7	10-7	10-8	10-8	10-8
250.00	12-11	12-11	13-0	13-0	13-0	13-1	13-1	13-2	13-2	13-3
275.00	15-7	15-8	15-8	15-9	15-9	15-10	15-10	15-11	16-0	16-0
300.00	18-7	18-8	18-8	18-9	18-10	18-10	18-11	19-0	19-0	19-1
325.00	21-10	21-11	21-11	22-0	22-1	22-2	22-2	22-3	22-4	22-5
350.00	25-4	25-5	25-6	25-7	25-8	25-9	25-9	25-10	25-11	26-0
375.00	29-1	29-2	29-4	29-5	29-6	29-7	29-8	29-9	29-10	29-11
400.00	33-2	33-3	33-4	33-6	33-7	33-8	33-9	33-10	33-11	34-0
425.00	37-6	37-7	37-9	37-10	37-11	38-0	38-2	38-3	38-4	38-6
450.00	42-1	42-2	42-4	42-5	42-7	42-8	42-10	42-11	43-1	43-2
475.00	46-11	47-1	47-3	47-4	47-6	47-8	47-9	47-11	48-0	48-2
500.00	52-1	52-3	52-5	52-7	52-8	52-10	53-0	53-2	53-4	53-5

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-3	8-4	8-4	8-4	8-5	8-5	8-5	8-5	8-6	8-6
225.00	10-6	10-6	10-7	10-7	10-7	10-8	10-8	10-8	10-9	10-9
250.00	12-11	13-0	13-0	13-1	13-1	13-2	13-2	13-3	13-3	13-4
275.00	15-8	15-9	15-9	15-10	15-10	15-11	16-0	16-0	16-1	16-1
300.00	18-8	18-9	18-10	18-10	18-11	18-11	19-0	19-1	19-1	19-2
325.00	21-11	22-0	22-1	22-2	22-2	22-3	22-4	22-5	22-6	22-6
350.00	25-6	25-7	25-8	25-8	25-9	25-10	25-11	26-0	26-1	26-2
375.00	29-3	29-4	29-5	29-6	29-7	29-8	29-10	29-11	30-0	30-1
400.00	33-4	33-5	33-7	33-8	33-9	33-10	33-11	34-0	34-2	34-3
425.00	37-8	37-10	37-11	38-0	38-2	38-3	38-4	38-6	38-7	38-8
450.00	42-4	42-5	42-7	42-8	42-10	42-11	43-1	43-2	43-4	43-5
475.00	47-2	47-4	47-6	47-7	47-9	47-11	48-0	48-2	48-4	48-5
500.00	52-4	52-6	52-8	52-10	53-0	53-2	53-4	53-6	53-7	53-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.155

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	13-2	13-2	13-2	13-3	13-3	13-3	13-3	13-4	13-4	13-4
275.00	15-11	15-11	16-0	16-0	16-0	16-1	16-1	16-1	16-2	16-2
300.00	19-0	19-0	19-0	19-1	19-1	19-2	19-2	19-2	19-3	19-3
325.00	22-3	22-4	22-4	22-5	22-5	22-6	22-6	22-7	22-7	22-7
350.00	25-10	25-11	25-11	26-0	26-0	26-1	26-2	26-2	26-3	26-3
375.00	29-9	29-9	29-10	29-10	29-11	30-0	30-0	30-1	30-2	30-2
400.00	33-10	33-11	34-0	34-0	34-1	34-2	34-2	34-3	34-4	34-5
425.00	38-3	38-4	38-5	38-5	38-6	38-7	38-8	38-9	38-10	38-10
450.00	42-11	43-0	43-1	43-2	43-3	43-4	43-5	43-6	43-7	43-8
475.00	47-11	48-0	48-1	48-2	48-3	48-4	48-5	48-6	48-7	48-8
500.00	53-2	53-3	53-4	53-5	53-7	53-8	53-9	53-10	53-11	54-0
525.00	58-8	58-10	58-11	59-0	59-1	59-3	59-4	59-5	59-7	59-8
550.00	64-6	64-8	64-9	64-10	65-0	65-1	65-3	65-4	65-5	65-7
575.00	70-8	70-9	70-11	71-0	71-2	71-3	71-5	71-6	71-8	71-9
600.00	77-1	77-2	77-4	77-6	77-7	77-9	77-11	78-0	78-2	78-4
625.00	83-9	83-11	84-1	84-2	84-4	84-6	84-8	84-10	85-0	85-1

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	13-2	13-3	13-3	13-3	13-3	13-4	13-4	13-4	13-5	13-5
275.00	16-0	16-0	16-0	16-1	16-1	16-1	16-2	16-2	16-2	16-3
300.00	19-0	19-1	19-1	19-1	19-2	19-2	19-3	19-3	19-4	19-4
325.00	22-4	22-5	22-5	22-6	22-6	22-7	22-7	22-8	22-8	22-8
350.00	25-11	26-0	26-0	26-1	26-2	26-2	26-3	26-3	26-4	26-4
375.00	29-10	29-10	29-11	30-0	30-0	30-1	30-2	30-2	30-3	30-4
400.00	33-11	34-0	34-1	34-2	34-2	34-3	34-4	34-5	34-5	34-6
425.00	38-5	38-5	38-6	38-7	38-8	38-9	38-10	38-10	38-11	39-0
450.00	43-1	43-2	43-3	43-4	43-5	43-6	43-7	43-8	43-9	43-9
475.00	48-1	48-2	48-3	48-4	48-5	48-6	48-7	48-8	48-9	48-10
500.00	53-4	53-5	53-6	53-8	53-9	53-10	53-11	54-0	54-1	54-3
525.00	58-11	59-0	59-1	59-3	59-4	59-5	59-6	59-8	59-9	59-10
550.00	64-9	64-10	65-0	65-1	65-3	65-4	65-5	65-7	65-8	65-10
575.00	70-10	71-0	71-2	71-3	71-5	71-6	71-8	71-9	71-11	72-1
600.00	77-4	77-5	77-7	77-9	77-11	78-0	78-2	78-4	78-5	78-7
625.00	84-0	84-2	84-4	84-6	84-8	84-10	85-0	85-1	85-3	85-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SHEET 156 OF 198

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.156

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	5.394	6.88	999	6.87	1000*
20	0	0	0	1.12	6.68	213	6.65	214
30	0	0	0	1.12	6.71	212	6.69	213
40	0	0	0	1.12	6.74	211	6.72	212
50	0	0	0	1.12	6.77	210	6.75	211
60	0	0	0	1.12	6.81	210	6.78	210
70	0	0	0	1.12	6.84	209	6.8	210
80	0	0	0	1.12	6.87	208	6.83	209
90	0	0	0	1.12	6.89	207	6.86	208
100	0	0	0	1.12	6.91	207	6.89	207
110	0	0	0	1.12	6.93	206	6.92	206
120	0	0	0	1.12	6.95	205	6.94	206
130	0	0	0	1.12	6.97	205	6.96	205
167	0	0	0	1.12	7.04	203	7.03	203
212	0	0	0	1.12	7.12	201	7.12	201

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	5.394	29.31	1000	29.3	1000*
20	0	0	0	1.12	29.12	209	29.09	209
30	0	0	0	1.12	29.15	209	29.12	209
40	0	0	0	1.12	29.18	208	29.15	209
50	0	0	0	1.12	29.21	208	29.18	208
60	0	0	0	1.12	29.24	208	29.21	208
70	0	0	0	1.12	29.27	208	29.24	208
80	0	0	0	1.12	29.3	208	29.26	208
90	0	0	0	1.12	29.32	208	29.29	208
100	0	0	0	1.12	29.34	207	29.32	208
110	0	0	0	1.12	29.36	207	29.35	207
120	0	0	0	1.12	29.38	207	29.37	207
130	0	0	0	1.12	29.4	207	29.39	207
167	0	0	0	1.12	29.47	207	29.46	207
212	0	0	0	1.12	29.56	206	29.55	206

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.157

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	5.394	76.89	1000	76.88	1000*
20	0	0	0	1.12	76.7	208	76.67	208
30	0	0	0	1.12	76.73	208	76.7	208
40	0	0	0	1.12	76.76	208	76.73	208
50	0	0	0	1.12	76.79	208	76.76	208
60	0	0	0	1.12	76.82	208	76.79	208
70	0	0	0	1.12	76.85	208	76.82	208
80	0	0	0	1.12	76.88	208	76.85	208
90	0	0	0	1.12	76.9	208	76.87	208
100	0	0	0	1.12	76.92	208	76.9	208
110	0	0	0	1.12	76.94	208	76.93	208
120	0	0	0	1.12	76.96	208	76.95	208
130	0	0	0	1.12	76.97	208	76.97	208
167	0	0	0	1.12	77.05	207	77.04	207
212	0	0	0	1.12	77.13	207	77.13	207

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.158

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	3-9	3-9	3-9	3-9	3-10	3-10	3-10	3-10	3-10	3-11
100.00	6-8	6-8	6-9	6-9	6-9	6-10	6-10	6-10	6-11	6-11
125.00	10-5	10-6	10-6	10-7	10-7	10-8	10-9	10-9	10-10	10-10
150.00	15-1	15-2	15-3	15-3	15-4	15-5	15-6	15-7	15-8	15-8
175.00	20-7	20-9	20-10	20-11	21-0	21-1	21-2	21-3	21-5	21-6
200.00	27-1	27-3	27-4	27-6	27-7	27-9	27-10	28-0	28-1	28-3

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	3-9	3-9	3-9	3-10	3-10	3-10	3-10	3-10	3-10	3-11
100.00	6-8	6-9	6-9	6-9	6-10	6-10	6-10	6-11	6-11	6-11
125.00	10-6	10-6	10-7	10-7	10-8	10-9	10-9	10-10	10-10	10-10
150.00	15-2	15-3	15-3	15-4	15-5	15-6	15-7	15-7	15-8	15-8
175.00	20-9	20-10	20-11	21-0	21-1	21-2	21-4	21-4	21-5	21-6
200.00	27-2	27-4	27-6	27-7	27-9	27-10	28-0	28-1	28-2	28-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.159

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-2
125.00	11-2	11-2	11-2	11-3	11-3	11-3	11-3	11-3	11-3	11-3
150.00	16-2	16-2	16-2	16-3	16-3	16-3	16-3	16-3	16-4	16-4
175.00	22-2	22-2	22-2	22-2	22-3	22-3	22-3	22-3	22-4	22-4
200.00	29-1	29-1	29-2	29-2	29-2	29-3	29-3	29-4	29-4	29-4
225.00	37-1	37-1	37-2	37-2	37-3	37-3	37-4	37-4	37-5	37-5
250.00	46-2	46-2	46-3	46-3	46-4	46-4	46-5	46-6	46-6	46-7

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-2
125.00	11-2	11-2	11-3	11-3	11-3	11-3	11-3	11-3	11-3	11-3
150.00	16-2	16-2	16-3	16-3	16-3	16-3	16-3	16-4	16-4	16-4
175.00	22-2	22-2	22-2	22-3	22-3	22-3	22-3	22-4	22-4	22-4
200.00	29-1	29-2	29-2	29-2	29-3	29-3	29-4	29-4	29-4	29-4
225.00	37-1	37-2	37-2	37-3	37-3	37-4	37-4	37-4	37-5	37-5
250.00	46-2	46-3	46-3	46-4	46-4	46-5	46-6	46-6	46-6	46-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.160

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	18-2	18-2	18-2	18-2	18-2	18-2	18-2	18-2	18-2	18-2
175.00	24-10	24-10	24-10	24-10	24-11	24-11	24-11	24-11	24-11	24-11
200.00	32-8	32-9	32-9	32-9	32-9	32-9	32-9	32-9	32-9	32-10
225.00	41-9	41-9	41-9	41-10	41-10	41-10	41-10	41-10	41-10	41-11
250.00	52-1	52-1	52-1	52-1	52-2	52-2	52-2	52-2	52-2	52-3
275.00	63-8	63-8	63-9	63-9	63-9	63-9	63-10	63-10	63-10	63-11
300.00	76-8	76-8	76-9	76-9	76-9	76-10	76-10	76-10	76-11	76-11
325.00	91-2	91-2	91-3	91-3	91-3	91-4	91-4	91-5	91-5	91-5
350.00	107-2	107-3	107-3	107-4	107-4	107-5	107-5	107-6	107-6	107-7
375.00	124-10	124-11	125-0	125-0	125-1	125-1	125-2	125-3	125-3	125-4

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	18-2	18-2	18-2	18-2	18-2	18-2	18-2	18-2	18-2	18-2
175.00	24-10	24-10	24-10	24-11	24-11	24-11	24-11	24-11	24-11	24-11
200.00	32-9	32-9	32-9	32-9	32-9	32-9	32-9	32-9	32-10	32-10
225.00	41-9	41-9	41-10	41-10	41-10	41-10	41-10	41-10	41-11	41-11
250.00	52-1	52-1	52-1	52-2	52-2	52-2	52-2	52-2	52-3	52-3
275.00	63-8	63-9	63-9	63-9	63-9	63-10	63-10	63-10	63-10	63-11
300.00	76-8	76-9	76-9	76-9	76-10	76-10	76-11	76-11	76-11	76-11
325.00	91-2	91-3	91-3	91-3	91-4	91-4	91-5	91-5	91-5	91-6
350.00	107-3	107-3	107-4	107-4	107-5	107-5	107-6	107-6	107-6	107-7
375.00	124-11	125-0	125-0	125-1	125-1	125-2	125-3	125-3	125-4	125-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	5.394	4.53	1499	4.53	1500*
20	0	0	0	1.12	4.15	339	4.1	344
30	0	0	0	1.12	4.2	336	4.15	340
40	0	0	0	1.12	4.25	332	4.2	336
50	0	0	0	1.12	4.3	328	4.24	332
60	0	0	0	1.12	4.34	325	4.29	329
70	0	0	0	1.12	4.39	321	4.33	326
80	0	0	0	1.12	4.43	318	4.38	322
90	0	0	0	1.12	4.48	315	4.42	319
100	0	0	0	1.12	4.52	312	4.47	316
110	0	0	0	1.12	4.55	310	4.51	313
120	0	0	0	1.12	4.58	308	4.56	310
130	0	0	0	1.12	4.61	306	4.6	307
167	0	0	0	1.12	4.72	300	4.71	300
212	0	0	0	1.12	4.84	292	4.83	292

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	5.394	18.6	1500	18.6	1500*
20	0	0	0	1.12	18.23	317	18.18	318
30	0	0	0	1.12	18.28	317	18.23	317
40	0	0	0	1.12	18.32	316	18.27	317
50	0	0	0	1.12	18.37	315	18.32	316
60	0	0	0	1.12	18.42	314	18.36	315
70	0	0	0	1.12	18.46	314	18.41	315
80	0	0	0	1.12	18.51	313	18.45	314
90	0	0	0	1.12	18.55	312	18.49	313
100	0	0	0	1.12	18.6	312	18.54	312
110	0	0	0	1.12	18.63	311	18.58	312
120	0	0	0	1.12	18.66	311	18.63	311
130	0	0	0	1.12	18.69	310	18.67	310
167	0	0	0	1.12	18.79	309	18.79	309
212	0	0	0	1.12	18.93	307	18.92	307

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.162

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	5.394	43.95	1500	43.95	1500*
20	0	0	0	1.12	43.58	314	43.53	314
30	0	0	0	1.12	43.63	313	43.58	314
40	0	0	0	1.12	43.67	313	43.62	313
50	0	0	0	1.12	43.72	313	43.67	313
60	0	0	0	1.12	43.76	313	43.71	313
70	0	0	0	1.12	43.81	312	43.75	313
80	0	0	0	1.12	43.85	312	43.8	312
90	0	0	0	1.12	43.9	312	43.84	312
100	0	0	0	1.12	43.94	312	43.89	312
110	0	0	0	1.12	43.97	311	43.93	312
120	0	0	0	1.12	44	311	43.97	311
130	0	0	0	1.12	44.03	311	44.02	311
167	0	0	0	1.12	44.14	310	44.13	310
212	0	0	0	1.12	44.27	310	44.27	310

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	5.394	85.1	1500	85.1	1500*
20	0	0	0	1.12	84.74	312	84.69	313
30	0	0	0	1.12	84.78	312	84.73	312
40	0	0	0	1.12	84.83	312	84.78	312
50	0	0	0	1.12	84.87	312	84.82	312
60	0	0	0	1.12	84.91	312	84.86	312
70	0	0	0	1.12	84.96	312	84.91	312
80	0	0	0	1.12	85	312	84.95	312
90	0	0	0	1.12	85.05	312	84.99	312
100	0	0	0	1.12	85.09	311	85.04	312
110	0	0	0	1.12	85.12	311	85.08	312
120	0	0	0	1.12	85.15	311	85.12	311
130	0	0	0	1.12	85.18	311	85.17	311
167	0	0	0	1.12	85.29	311	85.28	311
212	0	0	0	1.12	85.42	311	85.41	311

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.163

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	5.394	158.51	1500	158.51	1500*
20	0	0	0	1.12	158.17	312	158.12	312
30	0	0	0	1.12	158.21	312	158.16	312
40	0	0	0	1.12	158.25	312	158.2	312
50	0	0	0	1.12	158.29	312	158.25	312
60	0	0	0	1.12	158.34	312	158.29	312
70	0	0	0	1.12	158.38	312	158.33	312
80	0	0	0	1.12	158.42	312	158.37	312
90	0	0	0	1.12	158.46	312	158.41	312
100	0	0	0	1.12	158.51	311	158.45	312
110	0	0	0	1.12	158.54	311	158.49	311
120	0	0	0	1.12	158.56	311	158.54	311
130	0	0	0	1.12	158.59	311	158.58	311
167	0	0	0	1.12	158.7	311	158.69	311
212	0	0	0	1.12	158.82	311	158.81	311

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.164

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-4	2-4	2-4	2-5	2-5	2-5	2-6	2-6	2-6	2-6
100.00	4-1	4-2	4-2	4-3	4-3	4-4	4-5	4-5	4-6	4-6
125.00	6-5	6-6	6-7	6-8	6-9	6-9	6-10	6-11	7-0	7-1
150.00	9-3	9-4	9-6	9-7	9-8	9-9	9-11	10-0	10-1	10-2
175.00	12-7	12-9	12-11	13-1	13-2	13-4	13-6	13-7	13-9	13-11
200.00	16-6	16-8	16-11	17-1	17-3	17-6	17-8	17-10	18-0	18-2

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-4	2-4	2-5	2-5	2-5	2-6	2-6	2-6	2-7	2-7
100.00	4-2	4-2	4-3	4-4	4-4	4-5	4-5	4-6	4-6	4-7
125.00	6-6	6-7	6-8	6-9	6-10	6-10	6-11	7-0	7-1	7-2
150.00	9-4	9-6	9-7	9-8	9-10	9-11	10-0	10-1	10-3	10-3
175.00	12-9	12-11	13-1	13-3	13-4	13-6	13-8	13-10	13-11	14-0
200.00	16-9	16-11	17-1	17-4	17-6	17-8	17-11	18-1	18-3	18-4

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-6	4-6	4-6	4-7	4-7	4-7	4-7	4-7	4-7	4-7
125.00	7-1	7-1	7-1	7-1	7-1	7-2	7-2	7-2	7-2	7-3
150.00	10-2	10-2	10-3	10-3	10-3	10-4	10-4	10-4	10-5	10-5
175.00	13-11	13-11	13-11	14-0	14-0	14-1	14-1	14-1	14-2	14-2
200.00	18-2	18-3	18-3	18-4	18-4	18-5	18-5	18-6	18-6	18-7
225.00	23-1	23-2	23-2	23-3	23-4	23-4	23-5	23-6	23-6	23-7
250.00	28-7	28-8	28-9	28-10	28-10	28-11	29-0	29-1	29-2	29-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-6	4-6	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7
125.00	7-1	7-1	7-1	7-2	7-2	7-2	7-2	7-2	7-3	7-3
150.00	10-2	10-3	10-3	10-3	10-4	10-4	10-4	10-5	10-5	10-5
175.00	13-11	14-0	14-0	14-0	14-1	14-1	14-2	14-2	14-2	14-3
200.00	18-3	18-3	18-4	18-4	18-5	18-6	18-6	18-7	18-7	18-8
225.00	23-2	23-2	23-3	23-4	23-4	23-5	23-6	23-7	23-7	23-8
250.00	28-8	28-9	28-10	28-11	28-11	29-0	29-1	29-2	29-3	29-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	10-8	10-8	10-8	10-8	10-9	10-9	10-9	10-9	10-9	10-9
175.00	14-7	14-7	14-7	14-7	14-7	14-8	14-8	14-8	14-8	14-8
200.00	19-1	19-1	19-1	19-1	19-2	19-2	19-2	19-2	19-3	19-3
225.00	24-2	24-3	24-3	24-3	24-4	24-4	24-4	24-4	24-5	24-5
250.00	30-0	30-0	30-1	30-1	30-1	30-2	30-2	30-2	30-3	30-3
275.00	36-5	36-6	36-6	36-6	36-7	36-7	36-8	36-8	36-9	36-9
300.00	43-6	43-7	43-7	43-8	43-9	43-9	43-10	43-10	43-11	43-11
325.00	51-4	51-5	51-5	51-6	51-6	51-7	51-8	51-8	51-9	51-10
350.00	59-10	59-11	59-11	60-0	60-1	60-2	60-2	60-3	60-4	60-5
375.00	69-0	69-1	69-2	69-3	69-4	69-5	69-6	69-7	69-7	69-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	10-8	10-8	10-8	10-9	10-9	10-9	10-9	10-9	10-9	10-9
175.00	14-7	14-7	14-7	14-7	14-8	14-8	14-8	14-8	14-8	14-8
200.00	19-1	19-1	19-1	19-2	19-2	19-2	19-2	19-3	19-3	19-3
225.00	24-3	24-3	24-3	24-4	24-4	24-4	24-5	24-5	24-5	24-5
250.00	30-0	30-1	30-1	30-1	30-2	30-2	30-2	30-3	30-3	30-3
275.00	36-6	36-6	36-6	36-7	36-7	36-8	36-8	36-9	36-9	36-9
300.00	43-7	43-8	43-8	43-9	43-9	43-10	43-10	43-11	43-11	44-0
325.00	51-5	51-5	51-6	51-7	51-7	51-8	51-8	51-9	51-10	51-10
350.00	59-11	59-11	60-0	60-1	60-2	60-2	60-3	60-4	60-5	60-5
375.00	69-1	69-2	69-3	69-4	69-5	69-6	69-7	69-8	69-8	69-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	20-4	20-4	20-4	20-4	20-5	20-5	20-5	20-5	20-5	20-5
225.00	25-10	25-10	25-10	25-10	25-11	25-11	25-11	25-11	25-11	25-11
250.00	32-0	32-0	32-1	32-1	32-1	32-1	32-1	32-2	32-2	32-2
275.00	38-11	38-11	38-11	39-0	39-0	39-0	39-0	39-1	39-1	39-1
300.00	46-6	46-7	46-7	46-7	46-8	46-8	46-8	46-8	46-9	46-9
325.00	54-11	54-11	55-0	55-0	55-0	55-1	55-1	55-1	55-1	55-2
350.00	64-0	64-1	64-1	64-2	64-2	64-2	64-3	64-3	64-4	64-4
375.00	73-11	74-0	74-0	74-1	74-1	74-2	74-2	74-3	74-3	74-4
400.00	84-8	84-9	84-9	84-10	84-10	84-11	84-11	85-0	85-0	85-1
425.00	96-3	96-4	96-4	96-5	96-6	96-6	96-7	96-7	96-8	96-9
450.00	108-8	108-9	108-10	108-11	108-11	109-0	109-1	109-1	109-2	109-3
475.00	122-1	122-1	122-2	122-3	122-4	122-5	122-5	122-6	122-7	122-8
500.00	136-4	136-5	136-6	136-7	136-8	136-8	136-9	136-10	136-11	137-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	20-4	20-4	20-4	20-5	20-5	20-5	20-5	20-5	20-5	20-5
225.00	25-10	25-10	25-11	25-11	25-11	25-11	25-11	25-11	25-11	26-0
250.00	32-1	32-1	32-1	32-1	32-1	32-1	32-2	32-2	32-2	32-2
275.00	38-11	39-0	39-0	39-0	39-0	39-0	39-1	39-1	39-1	39-1
300.00	46-7	46-7	46-7	46-8	46-8	46-8	46-8	46-9	46-9	46-9
325.00	54-11	55-0	55-0	55-0	55-1	55-1	55-1	55-2	55-2	55-2
350.00	64-1	64-1	64-2	64-2	64-2	64-3	64-3	64-4	64-4	64-4
375.00	74-0	74-0	74-1	74-1	74-2	74-2	74-3	74-3	74-4	74-4
400.00	84-9	84-9	84-10	84-10	84-11	85-0	85-0	85-1	85-1	85-1
425.00	96-4	96-4	96-5	96-6	96-6	96-7	96-7	96-8	96-9	96-9
450.00	108-9	108-10	108-11	108-11	109-0	109-1	109-1	109-2	109-3	109-3
475.00	122-1	122-2	122-3	122-4	122-5	122-5	122-6	122-7	122-8	122-8
500.00	136-5	136-6	136-7	136-8	136-9	136-9	136-10	136-11	137-0	137-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	36-6	36-6	36-6	36-6	36-6	36-7	36-7	36-7	36-7	36-7
275.00	44-5	44-5	44-5	44-5	44-5	44-6	44-6	44-6	44-6	44-6
300.00	53-2	53-2	53-2	53-3	53-3	53-3	53-3	53-3	53-3	53-4
325.00	62-10	62-10	62-10	62-11	62-11	62-11	62-11	62-11	62-11	63-0
350.00	73-5	73-5	73-5	73-5	73-6	73-6	73-6	73-6	73-6	73-7
375.00	84-11	84-11	84-11	85-0	85-0	85-0	85-0	85-1	85-1	85-1
400.00	97-5	97-5	97-6	97-6	97-6	97-6	97-7	97-7	97-7	97-8
425.00	110-11	111-0	111-0	111-0	111-1	111-1	111-1	111-2	111-2	111-2
450.00	125-6	125-7	125-7	125-8	125-8	125-8	125-9	125-9	125-9	125-10
475.00	141-3	141-3	141-4	141-4	141-5	141-5	141-6	141-6	141-6	141-7
500.00	158-1	158-2	158-2	158-3	158-3	158-4	158-4	158-5	158-5	158-6
525.00	176-3	176-3	176-4	176-4	176-5	176-5	176-6	176-7	176-7	176-8
550.00	195-7	195-8	195-9	195-9	195-10	195-10	195-11	196-0	196-0	196-1
575.00	216-4	216-5	216-5	216-6	216-7	216-8	216-8	216-9	216-10	216-10
600.00	238-6	238-6	238-7	238-8	238-9	238-10	238-10	238-11	239-0	239-1
625.00	262-1	262-2	262-3	262-4	262-5	262-5	262-6	262-7	262-8	262-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	36-6	36-6	36-6	36-6	36-7	36-7	36-7	36-7	36-7	36-7
275.00	44-5	44-5	44-5	44-5	44-6	44-6	44-6	44-6	44-6	44-6
300.00	53-2	53-3	53-3	53-3	53-3	53-3	53-3	53-3	53-4	53-4
325.00	62-10	62-10	62-11	62-11	62-11	62-11	62-11	62-11	63-0	63-0
350.00	73-5	73-5	73-5	73-6	73-6	73-6	73-6	73-7	73-7	73-7
375.00	84-11	84-11	85-0	85-0	85-0	85-1	85-1	85-1	85-1	85-1
400.00	97-5	97-6	97-6	97-6	97-6	97-7	97-7	97-7	97-8	97-8
425.00	111-0	111-0	111-0	111-1	111-1	111-1	111-2	111-2	111-2	111-3
450.00	125-7	125-7	125-8	125-8	125-8	125-9	125-9	125-10	125-10	125-10
475.00	141-3	141-4	141-4	141-5	141-5	141-6	141-6	141-7	141-7	141-7
500.00	158-2	158-3	158-3	158-4	158-4	158-5	158-5	158-6	158-6	158-6
525.00	176-3	176-4	176-4	176-5	176-6	176-6	176-7	176-7	176-8	176-8
550.00	195-8	195-9	195-9	195-10	195-11	195-11	196-0	196-1	196-1	196-2
575.00	216-5	216-5	216-6	216-7	216-8	216-8	216-9	216-10	216-11	216-11
600.00	238-6	238-7	238-8	238-9	238-10	238-11	238-11	239-0	239-1	239-2
625.00	262-2	262-3	262-4	262-5	262-6	262-7	262-7	262-8	262-9	262-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.169

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	5.394	3.39	2000	3.39	2000*
20	0	0	0	1.12	2.76	510	2.64	531
30	0	0	0	1.12	2.82	497	2.71	518
40	0	0	0	1.12	2.89	486	2.78	505
50	0	0	0	1.12	2.96	475	2.85	494
60	0	0	0	1.12	3.02	465	2.91	483
70	0	0	0	1.12	3.09	455	2.97	472
80	0	0	0	1.12	3.15	446	3.04	463
90	0	0	0	1.12	3.21	438	3.1	453
100	0	0	0	1.12	3.27	430	3.16	445
110	0	0	0	1.12	3.33	422	3.22	437
120	0	0	0	1.12	3.37	417	3.28	429
130	0	0	0	1.12	3.41	413	3.34	421
167	0	0	0	1.12	3.54	397	3.53	399
212	0	0	0	1.12	3.7	381	3.68	382

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	5.394	13.74	2000	13.74	2000*
20	0	0	0	1.12	13.13	434	13.03	437
30	0	0	0	1.12	13.2	432	13.09	435
40	0	0	0	1.12	13.26	430	13.15	433
50	0	0	0	1.12	13.32	428	13.21	431
60	0	0	0	1.12	13.38	426	13.27	429
70	0	0	0	1.12	13.44	424	13.33	427
80	0	0	0	1.12	13.5	422	13.39	426
90	0	0	0	1.12	13.56	420	13.45	424
100	0	0	0	1.12	13.62	419	13.51	422
110	0	0	0	1.12	13.68	417	13.57	420
120	0	0	0	1.12	13.72	416	13.63	419
130	0	0	0	1.12	13.76	415	13.69	417
167	0	0	0	1.12	13.9	411	13.89	411
212	0	0	0	1.12	14.08	406	14.06	406

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.170

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	5.394	31.7	2000	31.7	2000*
20	0	0	0	1.12	31.1	423	31	424
30	0	0	0	1.12	31.16	422	31.06	423
40	0	0	0	1.12	31.22	421	31.12	422
50	0	0	0	1.12	31.28	420	31.18	422
60	0	0	0	1.12	31.34	420	31.24	421
70	0	0	0	1.12	31.4	419	31.3	420
80	0	0	0	1.12	31.46	418	31.36	419
90	0	0	0	1.12	31.52	417	31.41	419
100	0	0	0	1.12	31.58	417	31.47	418
110	0	0	0	1.12	31.64	416	31.53	417
120	0	0	0	1.12	31.68	416	31.59	417
130	0	0	0	1.12	31.72	415	31.65	416
167	0	0	0	1.12	31.87	413	31.85	413
212	0	0	0	1.12	32.04	411	32.03	411

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	5.394	58.6	2000	58.6	2000*
20	0	0	0	1.12	58.01	419	57.9	419
30	0	0	0	1.12	58.07	419	57.96	419
40	0	0	0	1.12	58.13	418	58.02	419
50	0	0	0	1.12	58.19	418	58.08	418
60	0	0	0	1.12	58.25	417	58.14	418
70	0	0	0	1.12	58.3	417	58.2	418
80	0	0	0	1.12	58.36	417	58.26	417
90	0	0	0	1.12	58.42	416	58.31	417
100	0	0	0	1.12	58.48	416	58.37	417
110	0	0	0	1.12	58.54	416	58.43	416
120	0	0	0	1.12	58.58	415	58.49	416
130	0	0	0	1.12	58.62	415	58.55	416
167	0	0	0	1.12	58.77	414	58.75	414
212	0	0	0	1.12	58.94	413	58.93	413

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.171

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	5.394	97.14	2000	97.14	2000*
20	0	0	0	1.12	96.55	417	96.45	417
30	0	0	0	1.12	96.61	417	96.51	417
40	0	0	0	1.12	96.67	417	96.57	417
50	0	0	0	1.12	96.73	417	96.63	417
60	0	0	0	1.12	96.79	416	96.68	417
70	0	0	0	1.12	96.85	416	96.74	417
80	0	0	0	1.12	96.91	416	96.8	416
90	0	0	0	1.12	96.97	416	96.86	416
100	0	0	0	1.12	97.02	416	96.92	416
110	0	0	0	1.12	97.08	415	96.97	416
120	0	0	0	1.12	97.12	415	97.03	416
130	0	0	0	1.12	97.16	415	97.09	415
167	0	0	0	1.12	97.31	415	97.29	415
212	0	0	0	1.12	97.48	414	97.47	414

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.172

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-6	1-6	1-7	1-7	1-8	1-8	1-8	1-9	1-9	1-10
100.00	2-8	2-9	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3
125.00	4-2	4-3	4-4	4-5	4-7	4-8	4-9	4-10	4-11	5-0
150.00	5-11	6-1	6-3	6-5	6-7	6-8	6-10	7-0	7-1	7-3
175.00	8-1	8-4	8-6	8-9	8-11	9-2	9-4	9-6	9-8	9-11
200.00	10-7	10-11	11-2	11-5	11-8	11-11	12-2	12-5	12-8	12-11

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-7	1-7	1-8	1-8	1-8	1-9	1-9	1-10	1-10	1-10
100.00	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-3	3-3	3-4
125.00	4-4	4-5	4-6	4-8	4-9	4-10	4-11	5-0	5-1	5-3
150.00	6-2	6-4	6-6	6-8	6-10	6-11	7-1	7-3	7-4	7-6
175.00	8-5	8-8	8-11	9-1	9-3	9-6	9-8	9-10	10-1	10-3
200.00	11-1	11-4	11-7	11-10	12-2	12-5	12-8	12-11	13-2	13-5

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-3	3-3	3-3	3-3	3-4	3-4	3-4	3-4	3-4	3-5
125.00	5-1	5-1	5-1	5-2	5-2	5-2	5-3	5-3	5-3	5-3
150.00	7-4	7-4	7-5	7-5	7-5	7-6	7-6	7-7	7-7	7-7
175.00	10-0	10-0	10-1	10-1	10-2	10-2	10-3	10-3	10-4	10-5
200.00	13-0	13-1	13-2	13-3	13-3	13-4	13-5	13-5	13-6	13-7
225.00	16-6	16-7	16-8	16-9	16-10	16-11	17-0	17-1	17-2	17-2
250.00	20-5	20-6	20-7	20-9	20-10	20-11	21-0	21-1	21-2	21-3

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-3	3-3	3-4	3-4	3-4	3-4	3-4	3-5	3-5	3-5
125.00	5-1	5-2	5-2	5-2	5-2	5-3	5-3	5-3	5-4	5-4
150.00	7-4	7-5	7-5	7-6	7-6	7-6	7-7	7-7	7-8	7-8
175.00	10-1	10-1	10-2	10-2	10-3	10-3	10-4	10-4	10-5	10-6
200.00	13-2	13-2	13-3	13-4	13-5	13-5	13-6	13-7	13-7	13-8
225.00	16-8	16-9	16-10	16-11	17-0	17-0	17-1	17-2	17-3	17-4
250.00	20-7	20-8	20-9	20-11	21-0	21-1	21-2	21-3	21-4	21-5

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STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-8	7-8	7-8	7-9	7-9	7-9	7-9	7-9	7-9	7-10
175.00	10-5	10-6	10-6	10-6	10-6	10-7	10-7	10-7	10-7	10-8
200.00	13-8	13-8	13-9	13-9	13-9	13-10	13-10	13-10	13-11	13-11
225.00	17-4	17-4	17-5	17-5	17-6	17-6	17-6	17-7	17-7	17-8
250.00	21-5	21-6	21-6	21-7	21-7	21-8	21-8	21-9	21-9	21-10
275.00	26-0	26-0	26-1	26-2	26-2	26-3	26-3	26-4	26-5	26-5
300.00	31-0	31-1	31-1	31-2	31-3	31-4	31-4	31-5	31-6	31-6
325.00	36-6	36-6	36-7	36-8	36-9	36-10	36-11	37-0	37-0	37-1
350.00	42-5	42-6	42-7	42-8	42-9	42-10	42-11	43-0	43-1	43-2
375.00	48-10	48-11	49-0	49-1	49-2	49-3	49-5	49-6	49-7	49-8

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-8	7-9	7-9	7-9	7-9	7-9	7-9	7-10	7-10	7-10
175.00	10-6	10-6	10-6	10-7	10-7	10-7	10-7	10-8	10-8	10-8
200.00	13-9	13-9	13-9	13-10	13-10	13-10	13-10	13-11	13-11	13-11
225.00	17-5	17-5	17-5	17-6	17-6	17-7	17-7	17-7	17-8	17-8
250.00	21-6	21-7	21-7	21-8	21-8	21-9	21-9	21-10	21-10	21-11
275.00	26-1	26-2	26-2	26-3	26-3	26-4	26-5	26-5	26-6	26-6
300.00	31-1	31-2	31-3	31-3	31-4	31-5	31-6	31-6	31-7	31-8
325.00	36-7	36-8	36-9	36-10	36-11	36-11	37-0	37-1	37-2	37-3
350.00	42-7	42-8	42-9	42-10	42-11	43-0	43-1	43-2	43-3	43-4
375.00	49-0	49-1	49-2	49-3	49-4	49-6	49-7	49-8	49-9	49-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	14-2	14-2	14-3	14-3	14-3	14-3	14-3	14-3	14-4	14-4
225.00	18-0	18-0	18-0	18-1	18-1	18-1	18-1	18-1	18-2	18-2
250.00	22-3	22-3	22-4	22-4	22-4	22-4	22-5	22-5	22-5	22-5
275.00	27-0	27-0	27-1	27-1	27-1	27-1	27-2	27-2	27-2	27-3
300.00	32-2	32-3	32-3	32-4	32-4	32-4	32-5	32-5	32-5	32-6
325.00	37-11	37-11	38-0	38-0	38-0	38-1	38-1	38-2	38-2	38-3
350.00	44-1	44-1	44-2	44-2	44-3	44-3	44-4	44-4	44-5	44-5
375.00	50-9	50-9	50-10	50-11	50-11	51-0	51-0	51-1	51-2	51-2
400.00	57-11	58-0	58-0	58-1	58-2	58-2	58-3	58-4	58-4	58-5
425.00	65-7	65-8	65-9	65-9	65-10	65-11	66-0	66-1	66-2	66-2
450.00	73-10	73-11	73-11	74-0	74-1	74-2	74-3	74-4	74-5	74-6
475.00	82-6	82-8	82-9	82-10	82-11	83-0	83-1	83-2	83-3	83-4
500.00	91-10	91-11	92-0	92-1	92-2	92-4	92-5	92-6	92-7	92-8

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	14-3	14-3	14-3	14-3	14-3	14-3	14-4	14-4	14-4	14-4
225.00	18-0	18-1	18-1	18-1	18-1	18-1	18-2	18-2	18-2	18-2
250.00	22-4	22-4	22-4	22-4	22-5	22-5	22-5	22-5	22-6	22-6
275.00	27-0	27-1	27-1	27-1	27-2	27-2	27-2	27-3	27-3	27-3
300.00	32-3	32-3	32-4	32-4	32-5	32-5	32-5	32-6	32-6	32-7
325.00	37-11	38-0	38-0	38-1	38-1	38-2	38-2	38-3	38-3	38-4
350.00	44-2	44-2	44-3	44-3	44-4	44-4	44-5	44-5	44-6	44-6
375.00	50-10	50-10	50-11	51-0	51-0	51-1	51-2	51-2	51-3	51-3
400.00	58-0	58-1	58-2	58-2	58-3	58-4	58-4	58-5	58-6	58-7
425.00	65-8	65-9	65-10	65-11	66-0	66-1	66-1	66-2	66-3	66-4
450.00	73-11	74-0	74-1	74-2	74-3	74-4	74-5	74-6	74-7	74-7
475.00	82-8	82-9	82-10	82-11	83-0	83-1	83-3	83-4	83-5	83-6
500.00	92-0	92-1	92-2	92-3	92-5	92-6	92-7	92-8	92-9	92-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.176

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	23-4	23-4	23-4	23-4	23-4	23-5	23-5	23-5	23-5	23-5
275.00	28-3	28-3	28-4	28-4	28-4	28-4	28-4	28-5	28-5	28-5
300.00	33-9	33-9	33-9	33-10	33-10	33-10	33-10	33-10	33-11	33-11
325.00	39-8	39-9	39-9	39-9	39-10	39-10	39-10	39-10	39-11	39-11
350.00	46-2	46-3	46-3	46-3	46-4	46-4	46-4	46-4	46-5	46-5
375.00	53-2	53-3	53-3	53-3	53-4	53-4	53-5	53-5	53-5	53-6
400.00	60-9	60-9	60-10	60-10	60-11	60-11	60-11	61-0	61-0	61-1
425.00	68-10	68-10	68-11	68-11	69-0	69-0	69-1	69-1	69-2	69-2
450.00	77-6	77-6	77-7	77-7	77-8	77-8	77-9	77-9	77-10	77-10
475.00	86-8	86-9	86-9	86-10	86-10	86-11	87-0	87-0	87-1	87-2
500.00	96-5	96-6	96-7	96-8	96-8	96-9	96-10	96-10	96-11	97-0
525.00	106-10	106-11	106-11	107-0	107-1	107-2	107-3	107-3	107-4	107-5
550.00	117-10	117-11	117-11	118-0	118-1	118-2	118-3	118-4	118-5	118-6
575.00	129-5	129-6	129-7	129-8	129-9	129-10	129-11	130-0	130-1	130-2
600.00	141-8	141-9	141-10	141-11	142-0	142-1	142-2	142-3	142-4	142-5
625.00	154-7	154-8	154-9	154-10	154-11	155-0	155-2	155-3	155-4	155-5

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	23-4	23-4	23-4	23-4	23-5	23-5	23-5	23-5	23-5	23-5
275.00	28-4	28-4	28-4	28-4	28-4	28-5	28-5	28-5	28-5	28-5
300.00	33-9	33-9	33-10	33-10	33-10	33-10	33-11	33-11	33-11	33-11
325.00	39-9	39-9	39-9	39-10	39-10	39-10	39-11	39-11	39-11	39-11
350.00	46-3	46-3	46-3	46-4	46-4	46-4	46-5	46-5	46-5	46-6
375.00	53-3	53-3	53-4	53-4	53-5	53-5	53-5	53-6	53-6	53-6
400.00	60-10	60-10	60-10	60-11	60-11	61-0	61-0	61-1	61-1	61-1
425.00	68-11	68-11	69-0	69-0	69-1	69-1	69-2	69-2	69-3	69-3
450.00	77-6	77-7	77-8	77-8	77-9	77-9	77-10	77-10	77-11	78-0
475.00	86-9	86-10	86-10	86-11	87-0	87-0	87-1	87-2	87-2	87-3
500.00	96-7	96-7	96-8	96-9	96-9	96-10	96-11	97-0	97-0	97-1
525.00	106-11	107-0	107-1	107-2	107-2	107-3	107-4	107-5	107-6	107-6
550.00	117-11	118-0	118-1	118-2	118-3	118-4	118-5	118-5	118-6	118-7
575.00	129-7	129-8	129-9	129-10	129-11	130-0	130-1	130-1	130-2	130-3
600.00	141-10	141-11	142-0	142-1	142-2	142-3	142-4	142-5	142-6	142-7
625.00	154-9	154-10	154-11	155-0	155-1	155-3	155-4	155-5	155-6	155-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.177

Span = 100 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	5.394	6.88	999	6.87	1000*
0	0	0	0	1.12	6.71	212	6.67	214
30	0	0	0	1.12	6.8	210	6.77	210
40	0	0	0	1.12	6.83	209	6.8	210
50	0	0	0	1.12	6.86	208	6.83	209
60	0	0	0	1.12	6.89	207	6.86	208
70	0	0	0	1.12	6.92	206	6.89	207
80	0	0	0	1.12	6.95	205	6.92	206
90	0	0	0	1.12	6.97	205	6.95	205
100	0	0	0	1.12	6.99	204	6.98	205
110	0	0	0	1.12	7.01	204	7.01	204
120	0	0	0	1.12	7.03	203	7.03	203
130	0	0	0	1.12	7.05	203	7.04	203
167	0	0	0	1.12	7.12	201	7.12	201
212	0	0	0	1.12	7.21	198	7.2	198

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	5.394	29.31	1000	29.3	1000*
0	0	0	0	1.12	29.14	209	29.1	209
30	0	0	0	1.12	29.23	208	29.2	208
40	0	0	0	1.12	29.26	208	29.23	208
50	0	0	0	1.12	29.29	208	29.26	208
60	0	0	0	1.12	29.32	208	29.29	208
70	0	0	0	1.12	29.35	207	29.32	208
80	0	0	0	1.12	29.38	207	29.35	207
90	0	0	0	1.12	29.4	207	29.38	207
100	0	0	0	1.12	29.42	207	29.41	207
110	0	0	0	1.12	29.44	207	29.44	207
120	0	0	0	1.12	29.46	207	29.46	207
130	0	0	0	1.12	29.48	207	29.48	207
167	0	0	0	1.12	29.55	206	29.55	206
212	0	0	0	1.12	29.64	206	29.64	206

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.178

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	5.394	76.89	1000	76.88	1000*
0	0	0	0	1.12	76.73	208	76.69	208
30	0	0	0	1.12	76.82	208	76.79	208
40	0	0	0	1.12	76.84	208	76.82	208
50	0	0	0	1.12	76.87	208	76.85	208
60	0	0	0	1.12	76.9	208	76.87	208
70	0	0	0	1.12	76.93	208	76.9	208
80	0	0	0	1.12	76.96	208	76.93	208
90	0	0	0	1.12	76.98	207	76.96	208
100	0	0	0	1.12	77	207	76.99	207
110	0	0	0	1.12	77.02	207	77.01	207
120	0	0	0	1.12	77.04	207	77.03	207
130	0	0	0	1.12	77.06	207	77.05	207
167	0	0	0	1.12	77.13	207	77.12	207
212	0	0	0	1.12	77.22	207	77.21	207

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.179

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	3-9	3-10	3-10	3-10	3-10	3-10	3-11	3-11	3-11	3-11
100.00	6-9	6-9	6-10	6-10	6-10	6-11	6-11	6-11	7-0	7-0
125.00	10-7	10-7	10-8	10-9	10-9	10-10	10-10	10-11	10-11	11-0
150.00	15-3	15-4	15-5	15-6	15-7	15-8	15-8	15-9	15-10	15-11
175.00	20-11	21-0	21-1	21-2	21-3	21-5	21-6	21-7	21-8	21-9
200.00	27-5	27-7	27-9	27-10	28-0	28-1	28-3	28-4	28-5	28-7

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	3-10	3-10	3-10	3-10	3-10	3-11	3-11	3-11	3-11	3-11
100.00	6-9	6-10	6-10	6-10	6-11	6-11	6-11	7-0	7-0	7-0
125.00	10-7	10-8	10-9	10-9	10-10	10-10	10-11	10-11	11-0	11-0
150.00	15-4	15-5	15-6	15-7	15-8	15-8	15-9	15-10	15-10	15-11
175.00	21-0	21-1	21-2	21-3	21-5	21-6	21-7	21-8	21-8	21-9
200.00	27-7	27-8	27-10	28-0	28-1	28-3	28-4	28-5	28-6	28-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.180

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-3
125.00	11-3	11-3	11-3	11-3	11-3	11-3	11-3	11-3	11-4	11-4
150.00	16-3	16-3	16-3	16-3	16-3	16-4	16-4	16-4	16-4	16-4
175.00	22-2	22-3	22-3	22-3	22-3	22-4	22-4	22-4	22-4	22-5
200.00	29-2	29-2	29-3	29-3	29-4	29-4	29-4	29-5	29-5	29-5
225.00	37-2	37-3	37-3	37-4	37-4	37-5	37-5	37-5	37-6	37-6
250.00	46-3	46-4	46-4	46-5	46-6	46-6	46-7	46-7	46-8	46-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-3
125.00	11-3	11-3	11-3	11-3	11-3	11-3	11-3	11-4	11-4	11-4
150.00	16-3	16-3	16-3	16-3	16-4	16-4	16-4	16-4	16-4	16-4
175.00	22-3	22-3	22-3	22-3	22-4	22-4	22-4	22-4	22-5	22-5
200.00	29-2	29-3	29-3	29-4	29-4	29-4	29-5	29-5	29-5	29-5
225.00	37-3	37-3	37-4	37-4	37-5	37-5	37-5	37-6	37-6	37-6
250.00	46-4	46-4	46-5	46-6	46-6	46-7	46-7	46-8	46-8	46-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.181

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	18-2	18-2	18-2	18-2	18-2	18-2	18-2	18-2	18-2	18-2
175.00	24-10	24-11	24-11	24-11	24-11	24-11	24-11	24-11	24-11	24-11
200.00	32-9	32-9	32-9	32-9	32-9	32-9	32-10	32-10	32-10	32-10
225.00	41-10	41-10	41-10	41-10	41-10	41-10	41-11	41-11	41-11	41-11
250.00	52-1	52-2	52-2	52-2	52-2	52-2	52-3	52-3	52-3	52-3
275.00	63-9	63-9	63-9	63-10	63-10	63-10	63-11	63-11	63-11	63-11
300.00	76-9	76-9	76-10	76-10	76-10	76-11	76-11	77-0	77-0	77-0
325.00	91-3	91-3	91-4	91-4	91-5	91-5	91-5	91-6	91-6	91-7
350.00	107-4	107-4	107-5	107-5	107-6	107-6	107-7	107-7	107-8	107-8
375.00	125-0	125-1	125-1	125-2	125-3	125-3	125-4	125-4	125-5	125-6

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	18-2	18-2	18-2	18-2	18-2	18-2	18-2	18-2	18-2	18-2
175.00	24-11	24-11	24-11	24-11	24-11	24-11	24-11	24-11	24-11	24-11
200.00	32-9	32-9	32-9	32-9	32-9	32-10	32-10	32-10	32-10	32-10
225.00	41-10	41-10	41-10	41-10	41-10	41-11	41-11	41-11	41-11	41-11
250.00	52-2	52-2	52-2	52-2	52-2	52-3	52-3	52-3	52-3	52-3
275.00	63-9	63-9	63-10	63-10	63-10	63-11	63-11	63-11	63-11	63-11
300.00	76-9	76-10	76-10	76-10	76-11	76-11	77-0	77-0	77-0	77-0
325.00	91-3	91-4	91-4	91-5	91-5	91-6	91-6	91-6	91-7	91-7
350.00	107-4	107-5	107-5	107-6	107-6	107-7	107-7	107-8	107-8	107-8
375.00	125-1	125-1	125-2	125-3	125-3	125-4	125-4	125-5	125-5	125-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	5.394	4.53	1500	4.53	1500*
0	0	0	0	1.12	4.2	336	4.14	340
30	0	0	0	1.12	4.34	325	4.28	329
40	0	0	0	1.12	4.39	322	4.33	326
50	0	0	0	1.12	4.43	318	4.38	322
60	0	0	0	1.12	4.48	315	4.42	319
70	0	0	0	1.12	4.52	312	4.46	316
80	0	0	0	1.12	4.57	309	4.51	313
90	0	0	0	1.12	4.61	306	4.55	310
100	0	0	0	1.12	4.65	304	4.6	307
110	0	0	0	1.12	4.67	302	4.64	304
120	0	0	0	1.12	4.7	300	4.68	302
130	0	0	0	1.12	4.73	299	4.72	299
167	0	0	0	1.12	4.83	292	4.83	293
212	0	0	0	1.12	4.95	285	4.95	286

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	5.394	18.6	1500	18.6	1500*
0	0	0	0	1.12	18.28	317	18.22	318
30	0	0	0	1.12	18.41	314	18.36	315
40	0	0	0	1.12	18.46	314	18.4	315
50	0	0	0	1.12	18.5	313	18.45	314
60	0	0	0	1.12	18.55	312	18.49	313
70	0	0	0	1.12	18.59	312	18.54	313
80	0	0	0	1.12	18.64	311	18.58	312
90	0	0	0	1.12	18.68	310	18.62	311
100	0	0	0	1.12	18.72	310	18.67	310
110	0	0	0	1.12	18.75	309	18.71	310
120	0	0	0	1.12	18.78	309	18.76	309
130	0	0	0	1.12	18.81	308	18.8	308
167	0	0	0	1.12	18.92	307	18.91	307
212	0	0	0	1.12	19.05	305	19.04	305

* Design Condition

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SHEET 183 OF 198

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.183

Span = 300 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	5.394	43.95	1500	43.95	1500*
0	0	0	0	1.12	43.63	313	43.57	314
30	0	0	0	1.12	43.76	313	43.71	313
40	0	0	0	1.12	43.81	312	43.75	313
50	0	0	0	1.12	43.85	312	43.79	312
60	0	0	0	1.12	43.9	312	43.84	312
70	0	0	0	1.12	43.94	312	43.88	312
80	0	0	0	1.12	43.99	311	43.93	312
90	0	0	0	1.12	44.03	311	43.97	311
100	0	0	0	1.12	44.07	311	44.01	311
110	0	0	0	1.12	44.1	311	44.06	311
120	0	0	0	1.12	44.13	310	44.1	311
130	0	0	0	1.12	44.16	310	44.15	310
167	0	0	0	1.12	44.27	310	44.26	310
212	0	0	0	1.12	44.4	309	44.39	309

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	5.394	85.1	1500	85.1	1500*
0	0	0	0	1.12	84.78	312	84.72	312
30	0	0	0	1.12	84.91	312	84.86	312
40	0	0	0	1.12	84.96	312	84.9	312
50	0	0	0	1.12	85	312	84.95	312
60	0	0	0	1.12	85.05	312	84.99	312
70	0	0	0	1.12	85.09	311	85.03	312
80	0	0	0	1.12	85.13	311	85.08	312
90	0	0	0	1.12	85.18	311	85.12	311
100	0	0	0	1.12	85.22	311	85.16	311
110	0	0	0	1.12	85.25	311	85.21	311
120	0	0	0	1.12	85.27	311	85.25	311
130	0	0	0	1.12	85.3	311	85.29	311
167	0	0	0	1.12	85.41	311	85.41	311
212	0	0	0	1.12	85.54	310	85.54	310

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.184

TABLE OF CONTENTS

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	5.394	158.51	1500	158.51	1500*
0	0	0	0	1.12	158.21	312	158.15	312
30	0	0	0	1.12	158.34	312	158.28	312
40	0	0	0	1.12	158.38	312	158.33	312
50	0	0	0	1.12	158.42	312	158.37	312
60	0	0	0	1.12	158.46	312	158.41	312
70	0	0	0	1.12	158.51	311	158.45	312
80	0	0	0	1.12	158.55	311	158.49	311
90	0	0	0	1.12	158.59	311	158.53	311
100	0	0	0	1.12	158.63	311	158.57	311
110	0	0	0	1.12	158.65	311	158.62	311
120	0	0	0	1.12	158.68	311	158.66	311
130	0	0	0	1.12	158.71	311	158.7	311
167	0	0	0	1.12	158.81	311	158.81	311
212	0	0	0	1.12	158.94	311	158.94	311

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.185

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-5	2-5	2-5	2-5	2-6	2-6	2-6	2-7	2-7	2-7
100.00	4-3	4-3	4-4	4-5	4-5	4-6	4-6	4-7	4-7	4-8
125.00	6-8	6-8	6-9	6-10	6-11	7-0	7-1	7-1	7-2	7-3
150.00	9-7	9-8	9-9	9-11	10-0	10-1	10-2	10-3	10-5	10-6
175.00	13-1	13-2	13-4	13-6	13-7	13-9	13-11	14-0	14-2	14-3
200.00	17-1	17-3	17-5	17-8	17-10	18-0	18-2	18-4	18-6	18-9

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-5	2-5	2-6	2-6	2-6	2-6	2-7	2-7	2-7	2-8
100.00	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8
125.00	6-9	6-10	6-10	6-11	7-0	7-1	7-2	7-3	7-3	7-4
150.00	9-8	9-10	9-11	10-0	10-1	10-3	10-4	10-5	10-6	10-7
175.00	13-3	13-4	13-6	13-8	13-9	13-11	14-1	14-2	14-4	14-5
200.00	17-4	17-6	17-8	17-10	18-1	18-3	18-5	18-7	18-9	18-10

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.186

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-6	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-8	4-8
125.00	7-1	7-1	7-2	7-2	7-2	7-2	7-2	7-3	7-3	7-3
150.00	10-3	10-3	10-4	10-4	10-4	10-5	10-5	10-5	10-5	10-6
175.00	14-0	14-0	14-1	14-1	14-1	14-2	14-2	14-3	14-3	14-3
200.00	18-4	18-4	18-5	18-5	18-6	18-6	18-7	18-7	18-8	18-9
225.00	23-3	23-4	23-4	23-5	23-6	23-6	23-7	23-8	23-8	23-9
250.00	28-10	28-10	28-11	29-0	29-1	29-2	29-3	29-3	29-4	29-5

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-8	4-8	4-8
125.00	7-2	7-2	7-2	7-2	7-2	7-3	7-3	7-3	7-3	7-3
150.00	10-3	10-4	10-4	10-4	10-5	10-5	10-5	10-5	10-6	10-6
175.00	14-0	14-1	14-1	14-2	14-2	14-2	14-3	14-3	14-4	14-4
200.00	18-4	18-5	18-6	18-6	18-7	18-7	18-8	18-8	18-9	18-9
225.00	23-4	23-4	23-5	23-6	23-7	23-7	23-8	23-9	23-9	23-10
250.00	28-11	28-11	29-0	29-1	29-2	29-3	29-4	29-5	29-5	29-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	10-8	10-9	10-9	10-9	10-9	10-9	10-9	10-9	10-9	10-10
175.00	14-7	14-7	14-8	14-8	14-8	14-8	14-8	14-8	14-9	14-9
200.00	19-1	19-2	19-2	19-2	19-2	19-3	19-3	19-3	19-3	19-3
225.00	24-3	24-4	24-4	24-4	24-4	24-5	24-5	24-5	24-6	24-6
250.00	30-1	30-1	30-2	30-2	30-2	30-3	30-3	30-3	30-4	30-4
275.00	36-6	36-7	36-7	36-8	36-8	36-9	36-9	36-9	36-10	36-10
300.00	43-8	43-8	43-9	43-10	43-10	43-11	43-11	44-0	44-0	44-1
325.00	51-6	51-6	51-7	51-8	51-8	51-9	51-10	51-10	51-11	51-11
350.00	60-0	60-1	60-2	60-2	60-3	60-4	60-4	60-5	60-6	60-7
375.00	69-3	69-4	69-5	69-6	69-6	69-7	69-8	69-9	69-10	69-11

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	10-9	10-9	10-9	10-9	10-9	10-9	10-9	10-9	10-10	10-10
175.00	14-7	14-8	14-8	14-8	14-8	14-8	14-8	14-9	14-9	14-9
200.00	19-2	19-2	19-2	19-2	19-3	19-3	19-3	19-3	19-4	19-4
225.00	24-4	24-4	24-4	24-5	24-5	24-5	24-5	24-6	24-6	24-6
250.00	30-1	30-2	30-2	30-2	30-3	30-3	30-4	30-4	30-4	30-4
275.00	36-7	36-7	36-8	36-8	36-9	36-9	36-10	36-10	36-10	36-11
300.00	43-9	43-9	43-10	43-10	43-11	43-11	44-0	44-0	44-1	44-1
325.00	51-7	51-7	51-8	51-8	51-9	51-10	51-10	51-11	52-0	52-0
350.00	60-1	60-2	60-2	60-3	60-4	60-5	60-5	60-6	60-7	60-7
375.00	69-4	69-5	69-6	69-7	69-8	69-8	69-9	69-10	69-11	70-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.188

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Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	20-4	20-5	20-5	20-5	20-5	20-5	20-5	20-5	20-5	20-5
225.00	25-10	25-11	25-11	25-11	25-11	25-11	25-11	26-0	26-0	26-0
250.00	32-1	32-1	32-1	32-1	32-2	32-2	32-2	32-2	32-2	32-2
275.00	39-0	39-0	39-0	39-0	39-1	39-1	39-1	39-1	39-2	39-2
300.00	46-7	46-8	46-8	46-8	46-8	46-9	46-9	46-9	46-9	46-10
325.00	55-0	55-0	55-0	55-1	55-1	55-1	55-2	55-2	55-2	55-3
350.00	64-2	64-2	64-2	64-3	64-3	64-3	64-4	64-4	64-5	64-5
375.00	74-1	74-1	74-2	74-2	74-3	74-3	74-3	74-4	74-4	74-5
400.00	84-10	84-10	84-11	84-11	85-0	85-0	85-1	85-1	85-2	85-2
425.00	96-5	96-6	96-6	96-7	96-7	96-8	96-9	96-9	96-10	96-10
450.00	108-10	108-11	109-0	109-1	109-1	109-2	109-3	109-3	109-4	109-5
475.00	122-3	122-4	122-4	122-5	122-6	122-7	122-8	122-8	122-9	122-10
500.00	136-7	136-7	136-8	136-9	136-10	136-11	137-0	137-1	137-2	137-2

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	20-5	20-5	20-5	20-5	20-5	20-5	20-5	20-5	20-6	20-6
225.00	25-11	25-11	25-11	25-11	25-11	25-11	26-0	26-0	26-0	26-0
250.00	32-1	32-1	32-1	32-2	32-2	32-2	32-2	32-2	32-3	32-3
275.00	39-0	39-0	39-0	39-1	39-1	39-1	39-1	39-2	39-2	39-2
300.00	46-8	46-8	46-8	46-8	46-9	46-9	46-9	46-10	46-10	46-10
325.00	55-0	55-1	55-1	55-1	55-2	55-2	55-2	55-3	55-3	55-3
350.00	64-2	64-2	64-3	64-3	64-4	64-4	64-4	64-5	64-5	64-5
375.00	74-1	74-2	74-2	74-3	74-3	74-4	74-4	74-5	74-5	74-5
400.00	84-10	84-11	85-0	85-0	85-1	85-1	85-2	85-2	85-3	85-3
425.00	96-6	96-6	96-7	96-7	96-8	96-9	96-9	96-10	96-10	96-11
450.00	108-11	109-0	109-1	109-1	109-2	109-3	109-4	109-4	109-5	109-5
475.00	122-4	122-5	122-5	122-6	122-7	122-8	122-9	122-9	122-10	122-11
500.00	136-8	136-9	136-9	136-10	136-11	137-0	137-1	137-2	137-3	137-3

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	36-6	36-6	36-6	36-7	36-7	36-7	36-7	36-7	36-7	36-7
275.00	44-5	44-5	44-6	44-6	44-6	44-6	44-6	44-6	44-6	44-6
300.00	53-3	53-3	53-3	53-3	53-3	53-3	53-4	53-4	53-4	53-4
325.00	62-11	62-11	62-11	62-11	62-11	62-11	63-0	63-0	63-0	63-0
350.00	73-5	73-6	73-6	73-6	73-6	73-6	73-7	73-7	73-7	73-7
375.00	85-0	85-0	85-0	85-0	85-1	85-1	85-1	85-1	85-2	85-2
400.00	97-6	97-6	97-6	97-7	97-7	97-7	97-8	97-8	97-8	97-8
425.00	111-0	111-1	111-1	111-1	111-2	111-2	111-2	111-3	111-3	111-3
450.00	125-8	125-8	125-8	125-9	125-9	125-9	125-10	125-10	125-11	125-11
475.00	141-4	141-5	141-5	141-6	141-6	141-6	141-7	141-7	141-8	141-8
500.00	158-3	158-3	158-4	158-4	158-5	158-5	158-6	158-6	158-7	158-7
525.00	176-4	176-5	176-5	176-6	176-7	176-7	176-8	176-8	176-9	176-9
550.00	195-9	195-10	195-10	195-11	196-0	196-0	196-1	196-2	196-2	196-3
575.00	216-6	216-7	216-7	216-8	216-9	216-10	216-10	216-11	217-0	217-0
600.00	238-8	238-9	238-10	238-10	238-11	239-0	239-1	239-2	239-2	239-3
625.00	262-4	262-5	262-5	262-6	262-7	262-8	262-9	262-10	262-11	263-0

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	36-6	36-7	36-7	36-7	36-7	36-7	36-7	36-7	36-7	36-7
275.00	44-5	44-6	44-6	44-6	44-6	44-6	44-6	44-6	44-6	44-7
300.00	53-3	53-3	53-3	53-3	53-3	53-4	53-4	53-4	53-4	53-4
325.00	62-11	62-11	62-11	62-11	62-11	63-0	63-0	63-0	63-0	63-0
350.00	73-6	73-6	73-6	73-6	73-7	73-7	73-7	73-7	73-7	73-8
375.00	85-0	85-0	85-0	85-1	85-1	85-1	85-2	85-2	85-2	85-2
400.00	97-6	97-6	97-7	97-7	97-7	97-8	97-8	97-8	97-8	97-9
425.00	111-1	111-1	111-1	111-2	111-2	111-2	111-3	111-3	111-3	111-4
450.00	125-8	125-8	125-9	125-9	125-10	125-10	125-10	125-11	125-11	125-11
475.00	141-5	141-5	141-6	141-6	141-7	141-7	141-7	141-8	141-8	141-9
500.00	158-4	158-4	158-5	158-5	158-6	158-6	158-7	158-7	158-8	158-8
525.00	176-5	176-6	176-6	176-7	176-7	176-8	176-8	176-9	176-10	176-10
550.00	195-10	195-11	195-11	196-0	196-0	196-1	196-2	196-2	196-3	196-3
575.00	216-7	216-8	216-8	216-9	216-10	216-11	216-11	217-0	217-1	217-1
600.00	238-9	238-10	238-11	238-11	239-0	239-1	239-2	239-3	239-3	239-4
625.00	262-5	262-6	262-7	262-7	262-8	262-9	262-10	262-11	263-0	263-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	5.394	3.39	2000	3.39	2000*
0	0	0	0	1.12	2.82	497	2.71	519
30	0	0	0	1.12	3.02	465	2.9	484
40	0	0	0	1.12	3.09	455	2.97	473
50	0	0	0	1.12	3.15	446	3.03	464
60	0	0	0	1.12	3.21	438	3.09	454
70	0	0	0	1.12	3.27	430	3.15	446
80	0	0	0	1.12	3.33	422	3.21	437
90	0	0	0	1.12	3.39	415	3.27	430
100	0	0	0	1.12	3.45	408	3.33	422
110	0	0	0	1.12	3.49	404	3.39	415
120	0	0	0	1.12	3.52	399	3.44	408
130	0	0	0	1.12	3.56	396	3.5	402
167	0	0	0	1.12	3.69	382	3.67	383
212	0	0	0	1.12	3.84	367	3.83	368

* Design Condition

Span = 200 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	5.394	13.74	2000	13.74	2000*
0	0	0	0	1.12	13.2	432	13.09	435
30	0	0	0	1.12	13.38	426	13.27	430
40	0	0	0	1.12	13.44	424	13.33	428
50	0	0	0	1.12	13.5	422	13.39	426
60	0	0	0	1.12	13.56	420	13.45	424
70	0	0	0	1.12	13.62	419	13.51	422
80	0	0	0	1.12	13.68	417	13.57	420
90	0	0	0	1.12	13.74	415	13.62	419
100	0	0	0	1.12	13.8	413	13.68	417
110	0	0	0	1.12	13.85	412	13.74	415
120	0	0	0	1.12	13.89	411	13.8	414
130	0	0	0	1.12	13.92	410	13.86	412
167	0	0	0	1.12	14.07	406	14.05	406
212	0	0	0	1.12	14.24	401	14.23	402

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.191

Span = 300 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	5.394	31.7	2000	31.7	2000*
0	0	0	0	1.12	31.16	422	31.05	423
30	0	0	0	1.12	31.34	420	31.23	421
40	0	0	0	1.12	31.4	419	31.29	420
50	0	0	0	1.12	31.46	418	31.35	420
60	0	0	0	1.12	31.52	417	31.41	419
70	0	0	0	1.12	31.58	417	31.47	418
80	0	0	0	1.12	31.64	416	31.53	417
90	0	0	0	1.12	31.7	415	31.58	417
100	0	0	0	1.12	31.76	415	31.64	416
110	0	0	0	1.12	31.81	414	31.7	415
120	0	0	0	1.12	31.85	414	31.76	415
130	0	0	0	1.12	31.89	413	31.82	414
167	0	0	0	1.12	32.03	411	32.02	411
212	0	0	0	1.12	32.21	409	32.2	409

* Design Condition

Span = 400 ft

Design Condition					Final		Initial	
Cond. ˚F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	5.394	58.6	2000	58.6	2000*
0	0	0	0	1.12	58.07	419	57.96	419
30	0	0	0	1.12	58.25	417	58.13	418
40	0	0	0	1.12	58.3	417	58.19	418
50	0	0	0	1.12	58.36	417	58.25	417
60	0	0	0	1.12	58.42	416	58.31	417
70	0	0	0	1.12	58.48	416	58.37	417
80	0	0	0	1.12	58.54	416	58.43	416
90	0	0	0	1.12	58.6	415	58.48	416
100	0	0	0	1.12	58.66	415	58.54	416
110	0	0	0	1.12	58.71	415	58.6	415
120	0	0	0	1.12	58.75	414	58.66	415
130	0	0	0	1.12	58.79	414	58.72	415
167	0	0	0	1.12	58.93	413	58.92	413
212	0	0	0	1.12	59.11	412	59.1	412

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.192

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
˚F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	5.394	97.14	2000	97.14	2000*
0	0	0	0	1.12	96.61	417	96.5	417
30	0	0	0	1.12	96.79	416	96.68	417
40	0	0	0	1.12	96.85	416	96.74	417
50	0	0	0	1.12	96.91	416	96.79	416
60	0	0	0	1.12	96.97	416	96.85	416
70	0	0	0	1.12	97.02	416	96.91	416
80	0	0	0	1.12	97.08	415	96.97	416
90	0	0	0	1.12	97.14	415	97.03	416
100	0	0	0	1.12	97.2	415	97.08	415
110	0	0	0	1.12	97.25	415	97.14	415
120	0	0	0	1.12	97.29	415	97.2	415
130	0	0	0	1.12	97.33	415	97.26	415
167	0	0	0	1.12	97.47	414	97.46	414
212	0	0	0	1.12	97.65	414	97.63	414

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.193

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-7	1-8	1-8	1-8	1-9	1-9	1-10	1-10	1-10	1-11
100.00	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3	3-4	3-5
125.00	4-5	4-6	4-8	4-9	4-10	4-11	5-0	5-1	5-3	5-4
150.00	6-5	6-7	6-8	6-10	7-0	7-1	7-3	7-5	7-6	7-8
175.00	8-9	8-11	9-1	9-4	9-6	9-8	9-10	10-1	10-3	10-5
200.00	11-5	11-8	11-11	12-2	12-5	12-8	12-11	13-2	13-5	13-7

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-8	1-8	1-9	1-9	1-10	1-10	1-10	1-11	1-11	2-0
100.00	2-11	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-5	3-6
125.00	4-8	4-9	4-10	4-11	5-0	5-1	5-3	5-4	5-5	5-5
150.00	6-8	6-10	6-11	7-1	7-3	7-4	7-6	7-8	7-9	7-10
175.00	9-1	9-3	9-6	9-8	9-10	10-1	10-3	10-5	10-7	10-9
200.00	11-10	12-2	12-5	12-8	12-11	13-2	13-5	13-7	13-10	14-0

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-3	3-4	3-4	3-4	3-4	3-4	3-5	3-5	3-5	3-5
125.00	5-2	5-2	5-2	5-3	5-3	5-3	5-3	5-4	5-4	5-4
150.00	7-5	7-5	7-6	7-6	7-7	7-7	7-7	7-8	7-8	7-9
175.00	10-1	10-2	10-2	10-3	10-3	10-4	10-4	10-5	10-6	10-6
200.00	13-2	13-3	13-4	13-5	13-5	13-6	13-7	13-7	13-8	13-9
225.00	16-9	16-10	16-11	17-0	17-1	17-1	17-2	17-3	17-4	17-5
250.00	20-8	20-10	20-11	21-0	21-1	21-2	21-3	21-4	21-5	21-7

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-4	3-4	3-4	3-4	3-5	3-5	3-5	3-5	3-5	3-5
125.00	5-2	5-2	5-3	5-3	5-3	5-4	5-4	5-4	5-4	5-5
150.00	7-6	7-6	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-9
175.00	10-2	10-3	10-3	10-4	10-4	10-5	10-6	10-6	10-7	10-7
200.00	13-4	13-5	13-5	13-6	13-7	13-7	13-8	13-9	13-10	13-10
225.00	16-11	17-0	17-0	17-1	17-2	17-3	17-4	17-5	17-6	17-7
250.00	20-11	21-0	21-1	21-2	21-3	21-4	21-5	21-7	21-8	21-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.195

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-9	7-9	7-9	7-9	7-9	7-9	7-10	7-10	7-10	7-10
175.00	10-6	10-6	10-7	10-7	10-7	10-7	10-8	10-8	10-8	10-8
200.00	13-9	13-9	13-10	13-10	13-10	13-11	13-11	13-11	13-11	14-0
225.00	17-5	17-6	17-6	17-6	17-7	17-7	17-7	17-8	17-8	17-9
250.00	21-7	21-7	21-8	21-8	21-9	21-9	21-10	21-10	21-11	21-11
275.00	26-2	26-2	26-3	26-3	26-4	26-5	26-5	26-6	26-6	26-7
300.00	31-2	31-3	31-3	31-4	31-5	31-6	31-6	31-7	31-8	31-8
325.00	36-8	36-9	36-10	36-11	36-11	37-0	37-1	37-2	37-3	37-4
350.00	42-8	42-9	42-10	42-11	43-0	43-1	43-2	43-3	43-4	43-5
375.00	49-1	49-2	49-3	49-4	49-6	49-7	49-8	49-9	49-10	49-11

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-9	7-9	7-9	7-9	7-10	7-10	7-10	7-10	7-10	7-10
175.00	10-7	10-7	10-7	10-7	10-8	10-8	10-8	10-8	10-8	10-9
200.00	13-10	13-10	13-10	13-10	13-11	13-11	13-11	14-0	14-0	14-0
225.00	17-6	17-6	17-7	17-7	17-7	17-8	17-8	17-9	17-9	17-9
250.00	21-8	21-8	21-9	21-9	21-10	21-10	21-11	21-11	22-0	22-0
275.00	26-3	26-3	26-4	26-5	26-5	26-6	26-6	26-7	26-8	26-8
300.00	31-3	31-4	31-5	31-6	31-6	31-7	31-8	31-8	31-9	31-10
325.00	36-10	36-11	36-11	37-0	37-1	37-2	37-3	37-4	37-4	37-5
350.00	42-10	42-11	43-0	43-1	43-2	43-3	43-4	43-5	43-6	43-6
375.00	49-3	49-4	49-6	49-7	49-8	49-9	49-10	49-11	50-0	50-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	14-3	14-3	14-3	14-3	14-3	14-4	14-4	14-4	14-4	14-4
225.00	18-1	18-1	18-1	18-1	18-1	18-2	18-2	18-2	18-2	18-2
250.00	22-4	22-4	22-4	22-5	22-5	22-5	22-5	22-6	22-6	22-6
275.00	27-1	27-1	27-1	27-2	27-2	27-2	27-3	27-3	27-3	27-4
300.00	32-3	32-4	32-4	32-5	32-5	32-5	32-6	32-6	32-7	32-7
325.00	38-0	38-0	38-1	38-1	38-2	38-2	38-3	38-3	38-4	38-4
350.00	44-2	44-3	44-3	44-4	44-4	44-5	44-5	44-6	44-6	44-7
375.00	50-11	50-11	51-0	51-0	51-1	51-2	51-2	51-3	51-3	51-4
400.00	58-1	58-2	58-2	58-3	58-4	58-4	58-5	58-6	58-7	58-7
425.00	65-9	65-10	65-11	66-0	66-1	66-1	66-2	66-3	66-4	66-5
450.00	74-0	74-1	74-2	74-3	74-4	74-5	74-6	74-7	74-7	74-8
475.00	82-9	82-10	83-0	83-1	83-2	83-3	83-4	83-5	83-6	83-7
500.00	92-1	92-2	92-4	92-5	92-6	92-7	92-8	92-9	92-10	93-0

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	14-3	14-3	14-3	14-4	14-4	14-4	14-4	14-4	14-4	14-5
225.00	18-1	18-1	18-1	18-2	18-2	18-2	18-2	18-2	18-3	18-3
250.00	22-4	22-5	22-5	22-5	22-5	22-6	22-6	22-6	22-6	22-7
275.00	27-1	27-2	27-2	27-2	27-3	27-3	27-3	27-4	27-4	27-4
300.00	32-4	32-5	32-5	32-5	32-6	32-6	32-7	32-7	32-7	32-8
325.00	38-1	38-1	38-2	38-2	38-3	38-3	38-4	38-4	38-4	38-5
350.00	44-3	44-4	44-4	44-5	44-5	44-6	44-6	44-7	44-8	44-8
375.00	51-0	51-0	51-1	51-2	51-2	51-3	51-3	51-4	51-5	51-5
400.00	58-2	58-3	58-4	58-4	58-5	58-6	58-7	58-7	58-8	58-8
425.00	65-11	66-0	66-1	66-1	66-2	66-3	66-4	66-5	66-5	66-6
450.00	74-2	74-3	74-4	74-5	74-6	74-7	74-8	74-8	74-9	74-10
475.00	82-11	83-0	83-1	83-3	83-4	83-5	83-6	83-7	83-8	83-9
500.00	92-3	92-5	92-6	92-7	92-8	92-9	92-10	93-0	93-1	93-2

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.197

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Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	23-4	23-4	23-5	23-5	23-5	23-5	23-5	23-5	23-5	23-6
275.00	28-4	28-4	28-4	28-4	28-5	28-5	28-5	28-5	28-5	28-6
300.00	33-9	33-10	33-10	33-10	33-10	33-11	33-11	33-11	33-11	34-0
325.00	39-9	39-10	39-10	39-10	39-10	39-11	39-11	39-11	39-11	40-0
350.00	46-3	46-4	46-4	46-4	46-4	46-5	46-5	46-5	46-6	46-6
375.00	53-3	53-4	53-4	53-5	53-5	53-5	53-6	53-6	53-6	53-7
400.00	60-10	60-11	60-11	60-11	61-0	61-0	61-1	61-1	61-1	61-2
425.00	68-11	69-0	69-0	69-1	69-1	69-2	69-2	69-3	69-3	69-4
450.00	77-7	77-8	77-8	77-9	77-9	77-10	77-10	77-11	78-0	78-0
475.00	86-10	86-10	86-11	87-0	87-0	87-1	87-2	87-2	87-3	87-3
500.00	96-7	96-8	96-9	96-10	96-10	96-11	97-0	97-0	97-1	97-2
525.00	107-0	107-1	107-2	107-3	107-3	107-4	107-5	107-6	107-6	107-7
550.00	118-0	118-1	118-2	118-3	118-4	118-5	118-5	118-6	118-7	118-8
575.00	129-8	129-9	129-10	129-11	130-0	130-1	130-2	130-2	130-3	130-4
600.00	141-11	142-0	142-1	142-2	142-3	142-4	142-5	142-6	142-7	142-8
625.00	154-10	154-11	155-0	155-2	155-3	155-4	155-5	155-6	155-7	155-9

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	23-4	23-5	23-5	23-5	23-5	23-5	23-5	23-6	23-6	23-6
275.00	28-4	28-4	28-5	28-5	28-5	28-5	28-5	28-6	28-6	28-6
300.00	33-10	33-10	33-10	33-11	33-11	33-11	33-11	34-0	34-0	34-0
325.00	39-10	39-10	39-10	39-11	39-11	39-11	39-11	40-0	40-0	40-0
350.00	46-4	46-4	46-4	46-5	46-5	46-5	46-6	46-6	46-6	46-7
375.00	53-4	53-5	53-5	53-5	53-6	53-6	53-6	53-7	53-7	53-7
400.00	60-11	60-11	61-0	61-0	61-1	61-1	61-1	61-2	61-2	61-3
425.00	69-0	69-1	69-1	69-2	69-2	69-3	69-3	69-4	69-4	69-5
450.00	77-8	77-9	77-9	77-10	77-10	77-11	78-0	78-0	78-1	78-1
475.00	86-11	87-0	87-0	87-1	87-2	87-2	87-3	87-3	87-4	87-5
500.00	96-9	96-9	96-10	96-11	97-0	97-0	97-1	97-2	97-2	97-3
525.00	107-2	107-2	107-3	107-4	107-5	107-6	107-6	107-7	107-8	107-9
550.00	118-2	118-3	118-4	118-5	118-5	118-6	118-7	118-8	118-9	118-10
575.00	129-10	129-11	130-0	130-1	130-1	130-2	130-3	130-4	130-5	130-6
600.00	142-1	142-2	142-3	142-4	142-5	142-6	142-7	142-9	142-10	142-10
625.00	155-0	155-1	155-3	155-4	155-5	155-6	155-7	155-9	155-10	155-11

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.198

SCOPE: THIS STANDARD DESCRIBES THE CRITERIA FOR DESIGNING A "REDUCED TENSION SPAN".

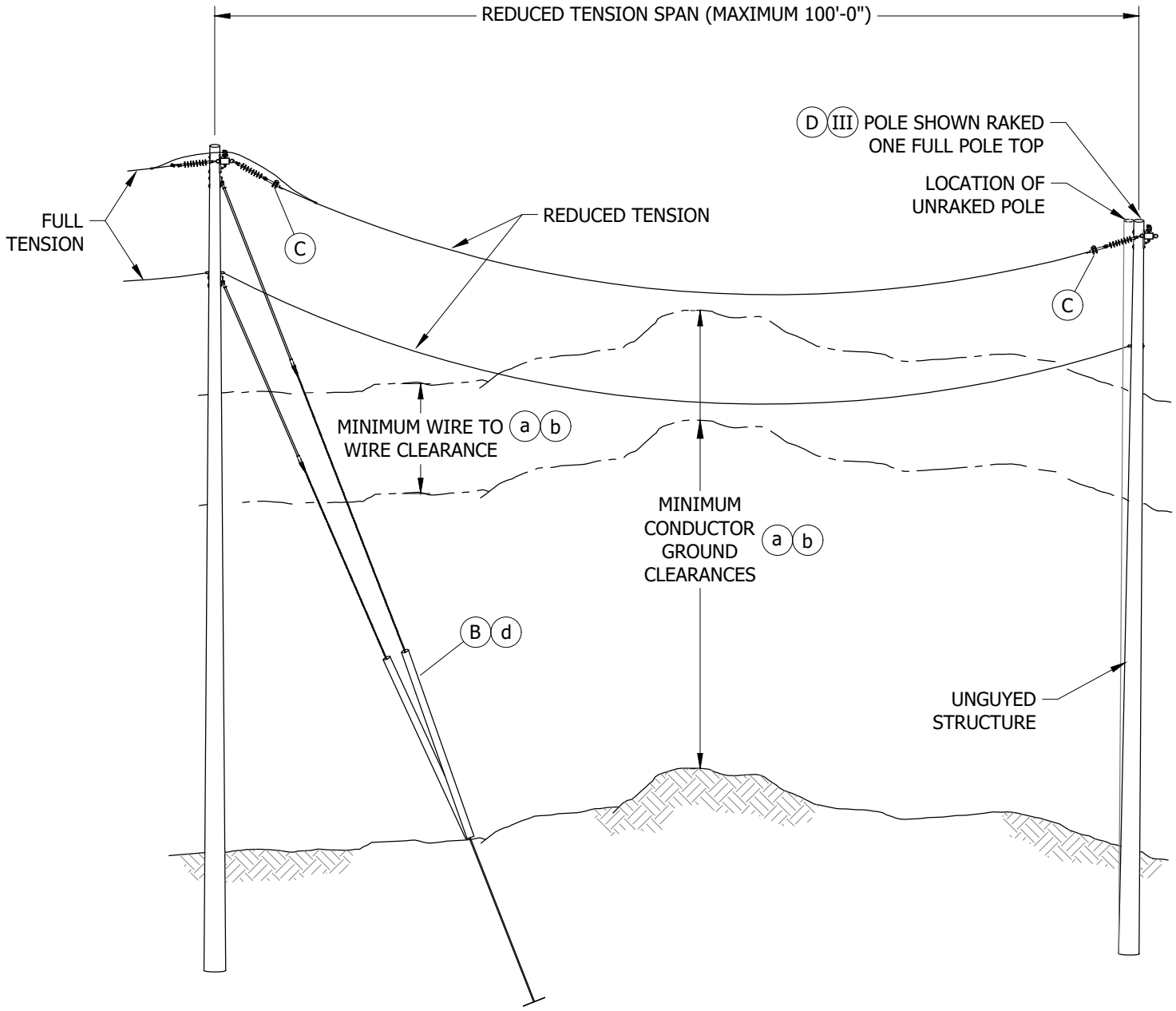


FIGURE 1

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C	COMPLETELY REVISED	EDM	MRF	JES	KRG	07/14/2022	F						
B	EDITORIAL CHANGES	-	GW	JS	CZH	07/17/2018	E						
A	REVISION REASON	-	-	-	PIA/MC	06/17/2009	D						

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

REDUCED TENSION SPAN CONSTRUCTION SINGLE/DOUBLE CROSSARMS

OH824.1

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INSTALLATION:

A. IF A STRUCTURE REQUIRES GUYING, HOWEVER SPACE LIMITATIONS, PERMITTING RESTRICTIONS, ETC. PREVENT THE USE OF A STANDARD DOWN GUY, A REDUCED TENSION SPAN MAY BE UTILIZED. FOR THIS STANDARD, REDUCED TENSION SPAN SHALL BE DEFINED AS A SPAN WHERE ***ALL CONDUCTORS*** IN THE SPAN ARE AT THEIR MINIMUM TENSIONS TO MEET ALL HORIZONTAL AND VERTICAL CLEARANCES. THE INSTALLATION TENSION IS NOT TO EXCEED THE WEIGHT OF THE CONDUCTOR BEING INSTALLED. THE PHRASE "***ALL CONDUCTORS***" INCLUDES ALL ELECTRIC AND COMMUNICATION CONDUCTORS IN THE RESPECTIVE SPAN. (I) (II) (V)

(B) DOWN GUYING SHALL BE ADDED TO ADJACENT STRUCTURE IN THE DIRECTION OF UN-GUYED STRUCTURE (FIGURE 1).

(C) BOLT-STYLE DEADEND SHOES SHALL BE ADDED TO BOTH STRUCTURES (FIGURE 1).

(D) UN-GUYED STRUCTURE SHALL BE RAKED BACK APPROXIMATELY ONE HALF TO ONE FULL POLE TOP (FIGURE 1).

E. CONDUCTOR TENSIONS WITHIN THE SPAN SHALL BE REDUCED UNTIL ALL HORIZONTAL AND VERTICAL CLEARANCES ARE MET AT THE LOWEST POSSIBLE TENSIONS. (IV)

BILL OF MATERIALS: NONE

NOTES:

(I) SPAN LENGTH LIMITED TO 100 FEET.

(II) REDUCED TENSIONS ARE TO BE APPLIED TO INDIVIDUAL SPANS ONLY (NOT ALLOWED ON CONSECUTIVE SPANS).

(III) RAKING ENSURES POLE WILL REMAIN PLUMB OVER TIME UNDER FULL LOADING CONDITIONS.

(IV) PARALLEL WIRE CATENARIES TO REMAIN LEVEL WHILE MEETING MINIMUM WIRE TO WIRE AND GROUND CLEARANCES. (a) (b)

(V) THIS STANDARD MUST BE USED IN CONJUNCTION WITH APPLICABLE CONSTRUCTION STANDARDS AND DESIGN CALCULATION REQUIREMENTS TO ENSURE CAPACITY, DEFLECTION, AND CLEARANCE REQUIREMENTS ARE MET FOR POLE, FOUNDATION, CROSSARMS, CONDUCTORS, GUYS, AND ALL ASSOCIATED HARDWARE.

REFERENCE:

(a) SEE G.O. 95, RULE 37: MINIMUM CLEARANCE OF WIRES ABOVE RAILROADS, THOROUGHFARES, BUILDINGS, ETC.

(b) SEE OH220: VERTICAL SEPARATION AND CLEARANCE OF CIRCUITS, CROSSARMS AND WIRES.

c. SEE OH711: WIRE TABLES.

(d) FOR GUYING, SEE OH SECTION 900.

e. SEE SDG&E CROSSARM LOADING SPREADSHEET.

f. SEE TE12100: DIRECT BURIED POLE SELECTION AND LOADING CRITERIA.

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B	EDITORIAL CHANGES	-	GW	JS	CZH	07/17/2018	E						
A	REVISION REASON	-	-	-	PIA/MC	06/17/2009	D						

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

REDUCED TENSION SPAN CONSTRUCTION SINGLE/DOUBLE CROSSARMS

OH824.2

SCOPE: THIS STANDARD DESCRIBES HOW TO DETERMINE HORIZONTAL CONDUCTOR SPACING FOR OPEN WIRE CONDUCTORS.

INSTALLATION:

A. THE FOLLOWING PROCEDURES ARE REQUIRED TO DETERMINE HORIZONTAL CONDUCTOR SPACING:

STEP 1: DETERMINE THE CONDUCTOR SIZE AND TYPE TO BE INSTALLED. (d)

STEP 2: DETERMINE THE RULING SPAN LOADING DISTRICT AND FINAL SAG. (e)

STEP 3: DETERMINE THE REQUIRED HORIZONTAL CONDUCTOR SPACING (IN INCHES) USING THE FOLLOWING APPLICABLE VALVE OR FORMULA:

TABLE 1

		REQUIRED MINIMUM CONDUCTOR SPACING (IN)	
		LARGER OF:	
BARE WIRE < AWG. NO.2	4kV	11.5	0.3 IN PER KV + 4.04 $\sqrt{S-24}$
	12kV	17.5	
BARE WIRE ≥ AWG. NO.2	4kV	11.5	0.3 IN PER KV + 8 $\sqrt{S/12}$
	12kV	17.5	

(a)

WHERE:

S = FINAL CONDUCTOR SAG IN INCHES AT MAX OPERATING TEMPERATURE. IN A GIVEN POLE LINE, THE HORIZONTAL CONDUCTOR SPACING SHALL BE BASED ON THE WORST CASE FINAL SAG OF THE ADJACENT SPANS AND ACCOUNT FOR ALIGNMENT LINE ANGLES.

STEP 4: SELECT THE CROSSARM FROM OH379, OR OH380, OR OH385 WHICH WILL PROVIDE EQUAL OR GREATER SPACING THAN DETERMINED IN STEP 3, BASED ON ECONOMICS AND DESIGN REQUIREMENTS.

STEP 5: VERIFY DESIGN LOADS DO NOT EXCEED ALLOWABLE LOAD CAPACITIES (f) AND UTILIZATION RATIOS CONFORM TO EQUATIONS SHOWN IN OH379, OH380, OR OH385.

EXAMPLE:

DETERMINE THE REQUIRED HORIZONTAL CONDUCTOR SPACING AT A POLE (D) (SEE FIGURE 1).

GIVEN: G.O. 95 LIGHT LOADING DISTRICT AND 65 MPH KNOWN LOCAL WIND.

WIRE TO BE STRUNG = 4 12KV CONDUCTORS, #2 - 5/2 AWAC.

SPAN LENGTHS ARE 300', 250', 350', AND 400'.

PROPOSED DESIGN TENSION = 1,600 LBS ALIGNMENT ANGLE AT POLE D = 30°.

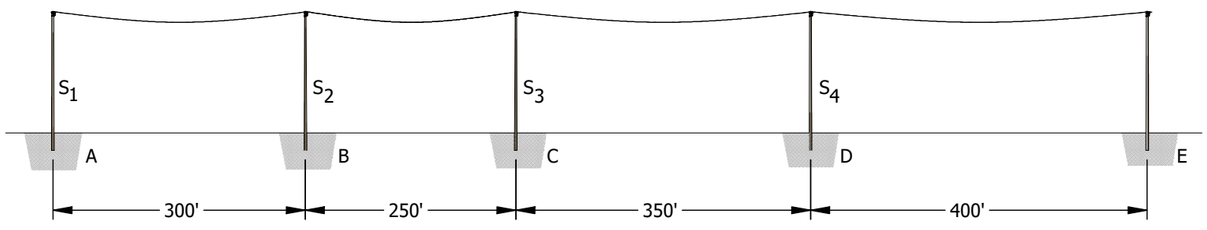


FIGURE 1

SOLUTION: 1) CALCULATE THE RULING SPAN USING THE FORMULA: $RS=\sqrt{\frac{\sum S^3}{\sum S}}=\sqrt{\frac{S_1^3}{S_1}+\frac{S_2^3}{S_2}+\ldots+\frac{S_N^3}{S_N}}$ (b)

WHERE $RS=\sqrt{\frac{300^3+250^3+350^3+400^3}{300+250+350+400}}=339'$

USE THE 300' RULING SPAN TABLES.

INSTALLATION (CONT'D):

SOLUTION (CONT'D): 2) FROM OH814, IN THE FINAL SAG TABLE FOR #2 - 5/2 AWAC, G.O. LIGHT LOADING, 1,600 LBS TENSION, FIND THE FINAL RULING SPAN SAG FOR 300' RULING SPAN AT 167°F = 4.32' = 51.84" AND 65 MPH KNOWN LOCAL WIND, 1,600 LBS TENSION, FIND THE FINAL RULING SPAN SAG FOR 300' RULING SPAN AT 167°F = 4.00' = 48.00".

3) CHOOSE THE LARGER APPLICABLE FINAL RULING SPAN SAG AND CONVERT TO ACTUAL SPAN SAG USING THE FOLLOWING FORMULA:

$$\text{ACTUAL SPAN SAG} = \text{RULING SPAN SAG} * \left(\frac{\text{SPAN LENGTH}}{\text{RULING SPAN}}\right)^2$$

$$\text{ACTUAL SPAN SAG} = 51.84" * \left(\frac{400'}{339'}\right)^2 = 72.17"$$

NOTE: ACTUAL SPAN SAG VALUES (IF KNOWN) MAY BE TAKEN DIRECTLY FROM A SOFTWARE (E.G., PLS-CADD) IN LIEU OF CONVERTING FROM RULING SPAN TO ACTUAL SPAN SAGS.

4) DETERMINE REQUIRED MINIMUM HORIZONTAL CONDUCTOR SPACING (IN INCHES) USING THE APPLICABLE FORMULA FROM THE TABLE ABOVE. (c)

$$PS = 0.3\ \text{IN/KV} * \text{VOLTAGE KV} + 8\sqrt{S/12}$$

$$PS = (0.3 * 12KV) + 8\sqrt{72.17"/12} = 23.22"$$

ACCOUNT FOR ADDITIONAL REQUIRED HORIZONTAL CONDUCTOR SPACING DUE TO THE ALIGNMENT LINE ANGLE USING THE FOLLOWING FORMULA.

NOTE: THE CROSSARM IS ORIENTED TO BISECT THE ALIGNMENT THUS THE CONDUCTOR HAS AN ARM TAKE OFF ANGLE (ΘL) OF 15° IN BOTH THE AHEAD AND BACK SPAN DIRECTIONS.

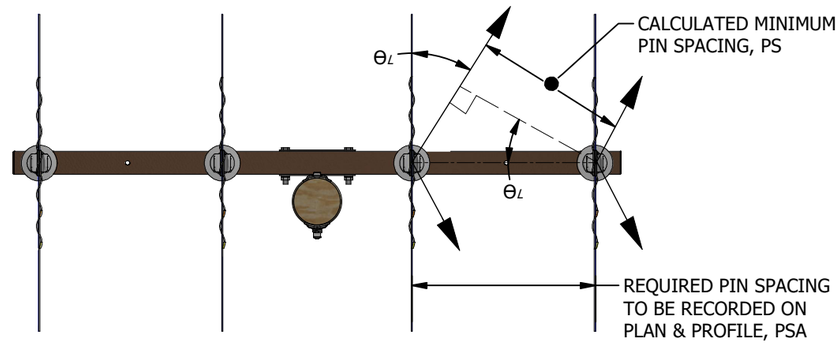


FIGURE 2

$$\cos\Theta L = \frac{PS}{PSA} \rightarrow PSA = \frac{PS}{\cos\Theta L}$$

$$PSA = \frac{23.22"}{\cos 15°} = 24.04"$$

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B						
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

HORIZONTAL CONDUCTOR SPACING GENERAL INFORMATION

SCALE: NOT TO SCALE

DRAWING NO: OH825.1

SHEET: 1 OF 2

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INSTALLATION (CONT'D):

SOLUTION (CONT'D): 5) SELECT AN APPLICABLE CROSSARM FROM OH379, OH380 OR OH385 WITH HORIZONTAL CONDUCTOR SPACING EQUAL TO OR GREATER THAN 24.04".

CONCLUSION. A 10-FOOT COMPOSITE CROSSARM (WIRE CONFIGURATION 5), WITH AVAILABLE MAXIMUM HORIZONTAL CONDUCTOR SPACING OF 30 INCHES MEETS THE REQUIREMENTS OF THE EXAMPLE PROBLEM.

6) CHECK CROSSARM STRENGTH UTILIZATION (10-FOOT ARMS ARE PREFERRED).

BILL OF MATERIALS: NONE

NOTES: NONE

REFERENCE:

(a) SEE NESC 2023 235B1-b1 and 235B1-b2 FOR HORIZONTAL CLEARANCE BETWEEN LINE CONDUCTORS.

(b) SEE UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICES BULLETIN 1724E-152 FOR THE MECHANICS OF OVERHEAD DISTRIBUTION LINE CONDUCTOR.

(c) SEE UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICES BULLETIN 1724E-154 FOR DISTRIBUTION CONDUCTOR CLEARANCES AND SPAN LIMITATIONS.

(d) SEE OH711 FOR WIRE TABLES.

(e) SEE OH800 FOR OVERHEAD SAG AND TENSION STANDARDS.

(f) SEE OH379, OH381, OH382, OH383, OR OH385.

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SDGE™

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

HORIZONTAL CONDUCTOR SPACING GENERAL INFORMATION

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