

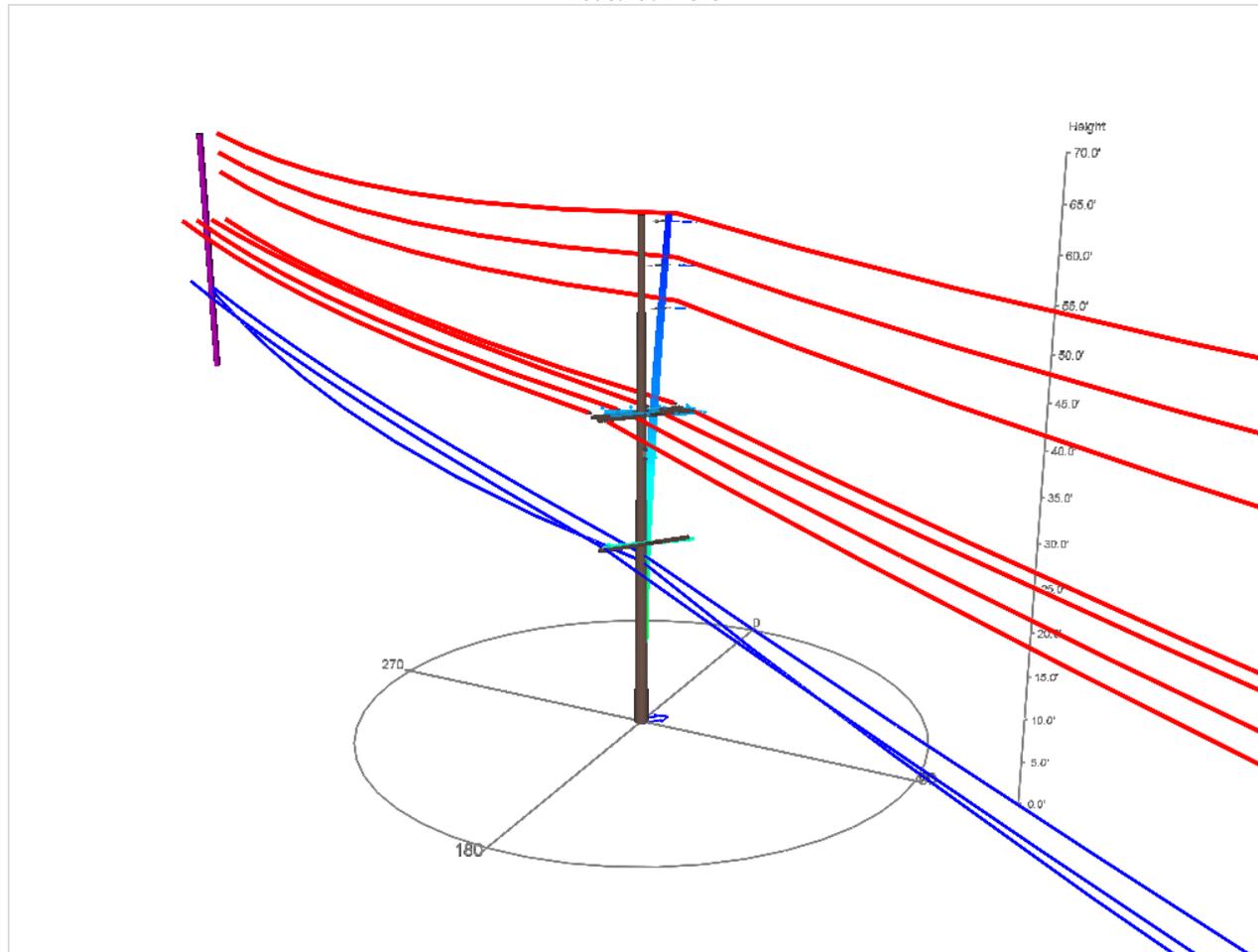
**Location Properties**

Technician:	Map Number:
Address:	Pole Tags:
City:	State:
County:	Zip Code:
Cross Street 1:	Cross Street 2:
Remedy:	Summary Notes:
Comments:	

**Location Analysis Summary**

Layer	Pole Length/Class	Minimum Safety Factor						Pole Strength Remaining	Loading Adjusted by Strength?	Clearance Violations Present?
		Pole	Guy	Anchor	Cross Arm	Insulator	Sidewalk Brace			
As Is	70'H4	3.15 from stress at 1' 0"	No Data	No Data	No Data	No Data	No Data	N	N	
As Designed	70'H4	3.09 from stress at 1' 0"	No Data	No Data	No Data	No Data	No Data	N	N	

**Measured: As Is**



**Analysis Results**

Component	In Service, 12 lb, Grade A (Governing Case)			Client File Maximum Rating
	Safety Factor	Load (Applied / Allowable)	Wind Direction	
Pole	3.15 from stress at 1' 0"	20622 / 65000 lb/in <sup>2</sup>	40 °	65000 lb/in <sup>2</sup>

Wire End Points and Wires

WEP#1												
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground					
Next Pole	None	259'	306 °	Undefined.	0 °	N/A	N/A					
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	In Service, 12 lb. Grade A		
Wire#2	4/0 Copper Transmission	SCE	Primary	Light Full	62' 0"	0' 0"	1	1161 lbF	Dynamic	Tension	Sag	
Wire#4	4/0 Copper Transmission	SCE	Primary	Light Full	57' 0"	0' 0"	1	1161 lbF	Dynamic	1489.31 lbF**	4' 8"***	
Wire#6	4/0 Copper Transmission	SCE	Primary	Light Full	52' 0"	0' 0"	1	1161 lbF	Dynamic	1485.84 lbF**	4' 9"***	
Wire#13	653.9 ACSR	SCE	Primary	Light Full	39' 3"	0' 0"	1	1629 lbF	Dynamic	1482.63 lbF**	4' 9"***	
Wire#14	653.9 ACSR	SCE	Primary	Light Full	39' 3"	0' 0"	1	1629 lbF	Dynamic	2671.73 lbF**	3' 8"***	
Wire#8	336.4 ACSR Merlin	SCE	Primary	Light Full	39' 3"	0' 0"	1	1284 lbF	Dynamic	2666.29 lbF**	3' 8"***	
Wire#9	653.9 ACSR	SCE	Primary	Light Full	39' 3"	0' 0"	1	1629 lbF	Dynamic	2121.53 lbF**	3' 1"***	
Wire#15	Car. Sol. - 048 - 1000' - CNDB	Edison Camier Solution	Communication	Light Full	23' 7"	0' 0"	1	398 lbF	Dynamic	2661.48 lbF**	3' 8"***	
Wire#17	Car. Sol. - 048 - 1000' - CNDB	Edison Camier Solution	Communication	Light Full	21' 10"	0' 0"	1	398 lbF	Dynamic	700.9 lbF**	7' 0"***	
Wire#23	2" CATV 1/4" Messenger	Unknown	Communication	Light Full	20' 10"	0' 0"	1	1412 lbF	Dynamic	704.63 lbF**	6' 11"***	
									Dynamic	2268.38 lbF**	8' 7"***	

WEP#2												
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground					
Previous Pole	None	202'	126 °	Undefined.	0 °	N/A	N/A					
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	In Service, 12 lb. Grade A		
Wire#1	4/0 Copper Transmission	SCE	Primary	Light Full	62' 0"	0' 0"	1	1122 lbF	Dynamic	Tension	Sag	
Wire#3	4/0 Copper Transmission	SCE	Primary	Light Full	57' 0"	0' 0"	1	1122 lbF	Dynamic	1487.71 lbF**	2' 10"***	
Wire#5	4/0 Copper Transmission	SCE	Primary	Light Full	52' 0"	0' 0"	1	1122 lbF	Dynamic	1488.19 lbF**	2' 10"***	
Wire#10	653.9 ACSR	SCE	Primary	Light Full	39' 3"	0' 0"	1	1549 lbF	Dynamic	1489.07 lbF**	2' 10"***	
Wire#11	336.4 ACSR Merlin	SCE	Primary	Light Full	39' 3"	0' 0"	1	1254 lbF	Dynamic	2685.4 lbF**	2' 3"***	
Wire#12	653.9 ACSR	SCE	Primary	Light Full	39' 3"	0' 0"	1	1549 lbF	Dynamic	2069.31 lbF**	1' 11"***	
Wire#7	653.9 ACSR	SCE	Primary	Light Full	39' 3"	0' 0"	1	1549 lbF	Dynamic	2667.05 lbF**	2' 3"***	
Wire#16	Car. Sol. - 048 - 1000' - CNDB	Edison Camier Solution	Communication	Light Full	23' 7"	0' 0"	1	331 lbF	Dynamic	2675.93 lbF**	2' 3"***	
Wire#18	Car. Sol. - 048 - 1000' - CNDB	Edison Camier Solution	Communication	Light Full	21' 10"	0' 0"	1	331 lbF	Dynamic	637.41 lbF**	4' 8"***	
Wire#24	2" CATV 1/4" Messenger	Unknown	Communication	Light Full	20' 10"	0' 0"	1	1410 lbF	Dynamic	632.09 lbF**	4' 9"***	
									Dynamic	2155.04 lbF**	5' 6"***	

\*Tension value used in an analysis may vary dependent on 'Average Length on Main Span' setting in the Load Case.  
 \*\* Tension value is inclusive of environmental and load factors associated with the Load Case.  
 \*\*\* Sag value is inclusive of environmental and load factors associated with the Load Case.

Equipment

ID	Size	Owner	Type	Height	Bottom Height	Direction
Equip#2	Raptor Protection Cover	SCE	Cutout Arrestor	39' 0"	39' 0"	36 °
Equip#3	Raptor Protection Cover	SCE	Cutout Arrestor	39' 0"	39' 0"	36 °
Equip#1	Omni Switch Horizontal	SCE	Switch	35' 0"	35' 0"	126 °

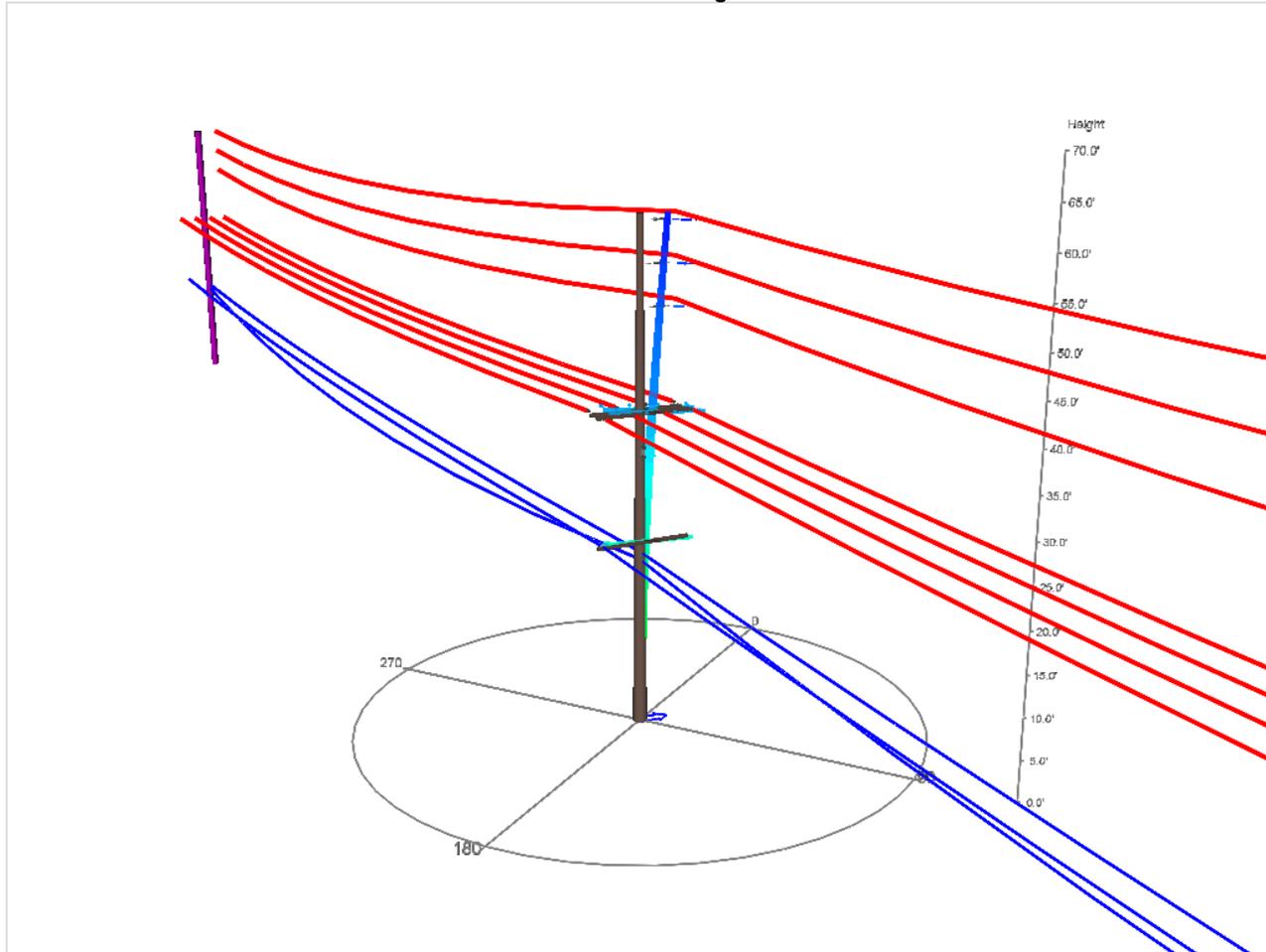
Cross Arms

ID	Size	Height	Association	Direction	Offset	Insulators
CrossArm#1	12 Foot Double Cross Arm	39' 0"	Other	216 °	6' 0"	Insulator#4, Insulator#5, Insulator#6, Insulator#7, Insulator#8, Insulator#9, Insulator#10, Insulator#11
CrossArm#2	12 Foot Cross Arm	23' 4"	Other	216 °	6' 0"	Insulator#12

Insulators

ID	Size	Direction	Offset	Wires
Insulator#1	115 kV Horizontal Line Post	36 °	61' 2"	Wire#1, Wire#2
Insulator#2	115 kV Horizontal Line Post	36 °	56' 2"	Wire#3, Wire#4
Insulator#3	115 kV Horizontal Line Post	36 °	51' 2"	Wire#5, Wire#6
Insulator#4	16 kV Deadend	126 °	0' 4"	Wire#12
Insulator#5	16 kV Deadend	306 °	0' 4"	Wire#13
Insulator#6	16 kV Deadend	126 °	11' 8"	Wire#10
Insulator#7	16 kV Deadend	306 °	11' 8"	Wire#9
Insulator#8	16 kV Deadend	126 °	4' 1"	Wire#7
Insulator#9	16 kV Deadend	306 °	4' 1"	Wire#14
Insulator#10	16 kV Deadend	126 °	7' 11"	Wire#11
Insulator#11	16 kV Deadend	306 °	7' 11"	Wire#8
Insulator#12	3 Bolt Suspension Clamp	306 °	0' 7"	Wire#15, Wire#16

Theoretical: As Designed



Analysis Results

Loading

Component	In Service, 12 lb, Grade A (Governing Case)			Client File Maximum Rating
	Safety Factor	Load (Applied / Allowable)	Wind Direction	
Pole	3.09 from stress at 1' 0"	21022 / 65000 lb/ft <sup>2</sup>	40 °	65000 lb/ft <sup>2</sup>

Wire End Points and Wires

WEP#1												
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground					
Next Pole	None	259'	306 °	Undefined.	0 °	N/A	N/A					
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	In Service, 12 lb. Grade A		
Wire#2	4/0 Copper Transmission	SCE	Primary	Light Full	62' 0"	0' 0"	1	1161 lbF*	Dynamic	1486.7 lbF**	4' 9"***	
Wire#4	4/0 Copper Transmission	SCE	Primary	Light Full	57' 0"	0' 0"	1	1161 lbF*	Dynamic	1482.61 lbF**	4' 9"***	
Wire#6	4/0 Copper Transmission	SCE	Primary	Light Full	52' 0"	0' 0"	1	1161 lbF*	Dynamic	1478.83 lbF**	4' 9"***	
Wire#13	336.4 ACSR Tree Wire	SCE	Primary	Light Full	39' 3"	0' 0"	1	1763 lbF*	Dynamic	2742.97 lbF**	3' 7"***	
Wire#14	336.4 ACSR Tree Wire	SCE	Primary	Light Full	39' 3"	0' 0"	1	1763 lbF*	Dynamic	2748.84 lbF**	3' 6"***	
Wire#8	336.4 ACSR Tree Wire	SCE	Primary	Light Full	39' 3"	0' 0"	1	1763 lbF*	Dynamic	2745.16 lbF**	3' 6"***	
Wire#9	336.4 ACSR Tree Wire	SCE	Primary	Light Full	39' 3"	0' 0"	1	1763 lbF*	Dynamic	2737.35 lbF**	3' 7"***	
Wire#15	Car. Sol. - 048 - 1000' - CNDB	Edison Camier Solution	Communication	Light Full	23' 7"	0' 0"	1	398 lbF*	Dynamic	700.21 lbF**	7' 0"***	
Wire#17	Car. Sol. - 048 - 1000' - CNDB	Edison Camier Solution	Communication	Light Full	21' 10"	0' 0"	1	398 lbF*	Dynamic	703.97 lbF**	7' 0"***	
Wire#23	2" CATV 1/4" Messenger	Unknown	Communication	Light Full	20' 10"	0' 0"	1	1412 lbF*	Dynamic	2266.77 lbF**	8' 8"***	

WEP#2												
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground					
Previous Pole	None	202'	126 °	Undefined.	0 °	N/A	N/A					
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	In Service, 12 lb. Grade A		
Wire#1	4/0 Copper Transmission	SCE	Primary	Light Full	62' 0"	0' 0"	1	1122 lbF*	Dynamic	1493.44 lbF**	2' 10"***	
Wire#3	4/0 Copper Transmission	SCE	Primary	Light Full	57' 0"	0' 0"	1	1122 lbF*	Dynamic	1494.89 lbF**	2' 10"***	
Wire#5	4/0 Copper Transmission	SCE	Primary	Light Full	52' 0"	0' 0"	1	1122 lbF*	Dynamic	1496.71 lbF**	2' 10"***	
Wire#10	336.4 ACSR Tree Wire	SCE	Primary	Light Full	39' 3"	0' 0"	1	1753 lbF*	Dynamic	2725.44 lbF**	2' 2"***	
Wire#11	336.4 ACSR Tree Wire	SCE	Primary	Light Full	39' 3"	0' 0"	1	1753 lbF*	Dynamic	2712.44 lbF**	2' 2"***	
Wire#12	336.4 ACSR Tree Wire	SCE	Primary	Light Full	39' 3"	0' 0"	1	1753 lbF*	Dynamic	2716.42 lbF**	2' 2"***	
Wire#7	336.4 ACSR Tree Wire	SCE	Primary	Light Full	39' 3"	0' 0"	1	1753 lbF*	Dynamic	2706.67 lbF**	2' 2"***	
Wire#16	Car. Sol. - 048 - 1000' - CNDB	Edison Camier Solution	Communication	Light Full	23' 7"	0' 0"	1	331 lbF*	Dynamic	638.42 lbF**	4' 8"***	
Wire#18	Car. Sol. - 048 - 1000' - CNDB	Edison Camier Solution	Communication	Light Full	21' 10"	0' 0"	1	331 lbF*	Dynamic	633.01 lbF**	4' 9"***	
Wire#24	2" CATV 1/4" Messenger	Unknown	Communication	Light Full	20' 10"	0' 0"	1	1410 lbF*	Dynamic	2157.62 lbF**	5' 6"***	

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 \*\* Tension value is inclusive of environmental and load factors associated with the Load Case.  
 \*\*\* Sag value is inclusive of environmental and load factors associated with the Load Case.

Equipment

ID	Size	Owner	Type	Height	Bottom Height	Direction
Equip#1	Omni Switch Horizontal	SCE	Switch	35' 0"	35' 0"	126 °

Cross Arms

ID	Size	Height	Association	Direction	Offset	Insulators
CrossArm#1	12 Foot Double Cross Arm	39' 0"	Other	216 °	6' 0"	Insulator#4, Insulator#5, Insulator#6, Insulator#7, Insulator#8, Insulator#9, Insulator#10, Insulator#11
CrossArm#2	12 Foot Cross Arm	23' 4"	Other	216 °	6' 0"	Insulator#12

Insulators

ID	Size	Direction	Offset	Wires
Insulator#1	115 kV Horizontal Line Post	36 °	61' 2"	Wire#1, Wire#2
Insulator#2	115 kV Horizontal Line Post	36 °	56' 2"	Wire#3, Wire#4
Insulator#3	115 kV Horizontal Line Post	36 °	51' 2"	Wire#5, Wire#6
Insulator#4	16 kV Deadend	126 °	0' 4"	Wire#12
Insulator#5	16 kV Deadend	306 °	0' 4"	Wire#13
Insulator#6	16 kV Deadend	126 °	11' 8"	Wire#10
Insulator#7	16 kV Deadend	306 °	11' 8"	Wire#9
Insulator#8	16 kV Deadend	126 °	4' 1"	Wire#7
Insulator#9	16 kV Deadend	306 °	4' 1"	Wire#14
Insulator#10	16 kV Deadend	126 °	7' 11"	Wire#11
Insulator#11	16 kV Deadend	306 °	7' 11"	Wire#8
Insulator#12	3 Bolt Suspension Clamp	306 °	0' 7"	Wire#15, Wire#16

## Location 885161E Location Forms

## SAP

- Field Inspection Date: 03/23/2023
- High Fire: Extreme
- Special Project: No
- Associated Poles:
- Visible Damage: No
- Pole Type: ED
- District: 59 - Valencia
- Region: ED-NW-NORTHCOA
- Above 3000 Ft Elevation: No
- As Designed Work Type: Existing
- Access Notes:

## Pole Info Form

- Pole Equipment #:
- Previous Inspection Date:
- Year Installed:
- As Is POA Height:
- As Is POA Diameter:
- As Designed POA Height:
- As Designed POA Diameter:
- Thomas Guide/Quadrant:
- Circuit:
- Substation:
- FIM:
- Location:
- City:
- Brand Height:
- Date Pole Load Performed:
- Comments:
- GPS Location: N/A

## QC Comments

- QC Comments: