SPIDACalc

Location: 2, 4548126E

Project: TD2126796
Lead: 1, Section 3

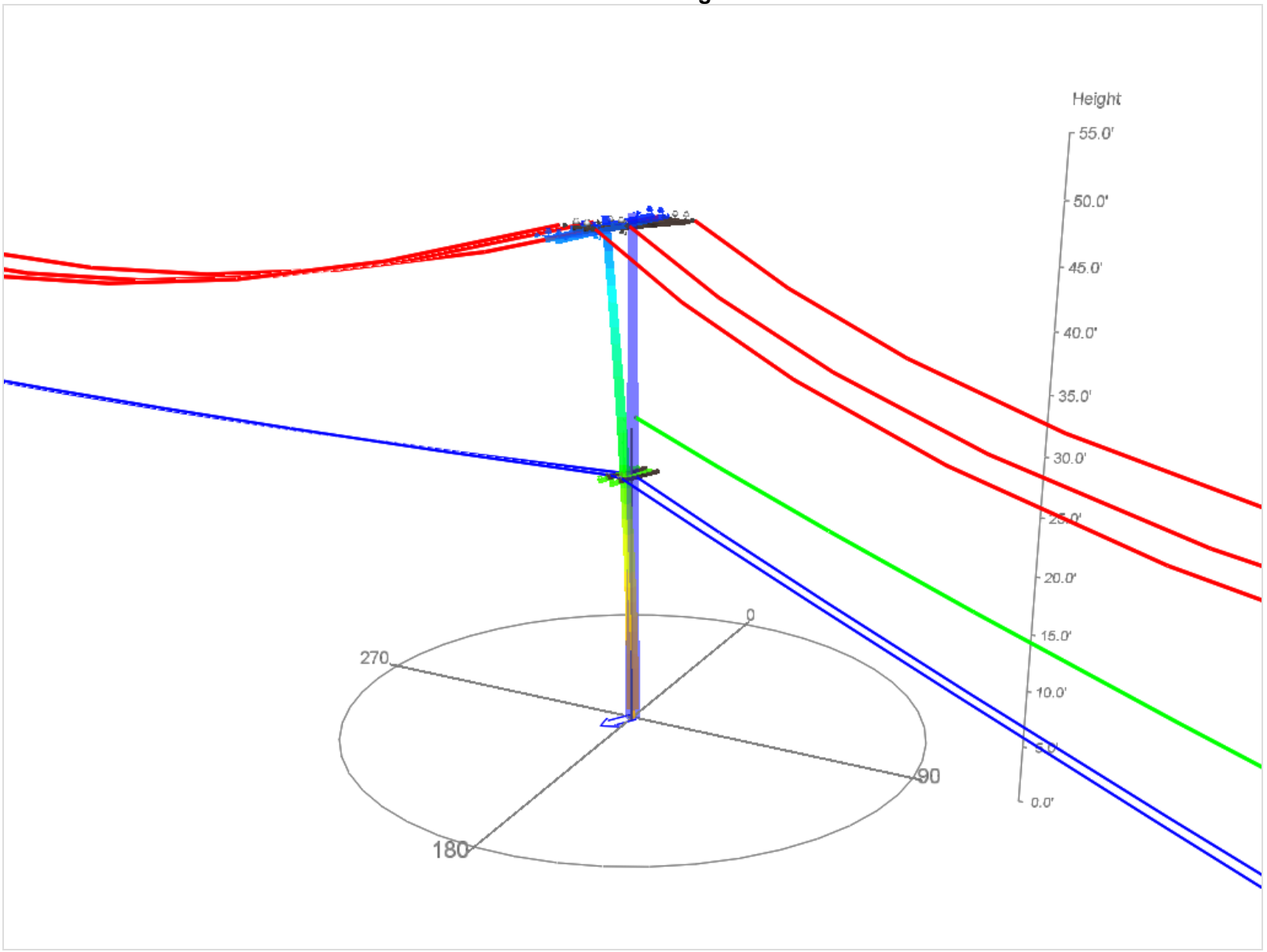
Location Properties

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 Designed	55'/H2	3.32 from stress at 3' 3"	No Data	No Data	No Data	No Data	No Data	100%	Y	N

Measured: As Designed



Analysis Results

Loading

Component	New, 12 lb, Grade A (Governing Case)			Client File Maximum Rating
	Safety Factor	Load (Applied / Allowable)	Wind Direction	
Pole	3.32 from stress at 3' 3"	2291 / 7600 lb/in²	210 °	7600 lb/in²

Wire End Points and Wires

WEP#1

Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground
Next Pole	None	159'	275 °	Undefined.	0 °	N/A	N/A

ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	New, 12 lb, Grade A	
										Tension	Sag
Wire#12	**1/0 ACSR Tree Wire XLPE**	**SCE**	**Primary**	**Light Reduced Unguyed**	**46' 9"**	**0' 0"**	**1**	**88 lbf***	**Dynamic**	**160.87 lbf****	**13' 0"***
Wire#3	**1/0 ACSR Tree Wire XLPE**	**SCE**	**Primary**	**Light Reduced Unguyed**	**46' 9"**	**0' 0"**	**1**	**88 lbf***	**Dynamic**	**161.47 lbf****	**13' 0"***
Wire#6	**1/0 ACSR Tree Wire XLPE**	**SCE**	**Primary**	**Light Reduced Unguyed**	**46' 9"**	**0' 0"**	**1**	**88 lbf***	**Dynamic**	**161.04 lbf****	**13' 0"***
Wire#11	.5" CATV 5/16" Messenger	Unknown	Communication	Light Full	24' 2"	0' 0"	1	1201 lbf*	Dynamic	799.05 lbf**	2' 3"*
Wire#9	1" CATV 1/4" Messenger	Unknown	Communication	Light Full	24' 0"	0' 0"	1	840 lbf*	Dynamic	935.98 lbf**	3' 2"*

WEP#2

Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground
Previous Pole	None	134'	129 °	Undefined.	0 °	N/A	N/A

ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	New, 12 lb, Grade A	
										Tension	Sag
Wire#13	**1/0 ACSR Tree Wire XLPE**	**SCE**	**Primary**	**Light Reduced Unguyed**	**46' 9"**	**0' 0"**	**1**	**73 lbf***	**Dynamic**	**171.95 lbf****	**9' 11"***
Wire#4	**1/0 ACSR Tree Wire XLPE**	**SCE**	**Primary**	**Light Reduced Unguyed**	**46' 9"**	**0' 0"**	**1**	**73 lbf***	**Dynamic**	**171.06 lbf****	**10' 0"***
Wire#5	**1/0 ACSR Tree Wire XLPE**	**SCE**	**Primary**	**Light Reduced Unguyed**	**46' 9"**	**0' 0"**	**1**	**73 lbf***	**Dynamic**	**172.38 lbf****	**9' 11"***
Wire#7	**4 Al. Triplex**	**SCE**	**Secondary**	**Light Full**	**29' 6"**	**0' 0"**	**1**	**282 lbf***	**Dynamic**	**385.12 lbf****	**3' 9"***
Wire#10	.5" CATV 5/16" Messenger	Unknown	Communication	Light Full	24' 2"	0' 0"	1	1201 lbf*	Dynamic	618.29 lbf**	2' 3"*
Wire#8	1" CATV 1/4" Messenger	Unknown	Communication	Light Full	24' 0"	0' 0"	1	840 lbf*	Dynamic	822.99 lbf**	2' 11"*

*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#1	**Fuse Arm with 3 Cutouts**	**SCE**	**Cutout Arrestor**	**46' 6"**	**46' 6"**	**202 °**
Equip#2	**2 PVC**	**SCE**	**Riser**	**28' 6"**	**0' 0"**	**165 °**

Cross Arms

ID	Size	Height	Association	Direction	Offset	Insulators
CrossArm#2	5 Foot Double Cross Arm	24' 0"	Other	199 °	2' 6"	Insulator#8
CrossArm#1	12 Foot Double Cross Arm	46' 6"	Bisector	202 °	6' 0"	Insulator#1, Insulator#2, Insulator#3, Insulator#4, Insulator#5, Insulator#6, Insulator#9, Insulator#10, Insulator#11

Insulators

ID	Size	Direction	Offset	Wires
Insulator#7	3" Spool Bolt	133 °	29' 6"	Wire#7
Insulator#8	3" Clevis Insulator	129 °	0' 4"	Wire#10, Wire#11
Insulator#1	16 kV Deadend	275 °	0' 4"	Wire#12
Insulator#2	16 kV Deadend	129 °	0' 4"	Wire#5
Insulator#3	16 kV Deadend	275 °	11' 8"	Wire#3
Insulator#4	16 kV Deadend	129 °	11' 8"	Wire#4
Insulator#5	16 kV Deadend	275 °	4' 1"	Wire#6
Insulator#6	16 kV Deadend	129 °	4' 1"	Wire#13
Insulator#9	16 kV Pin (Cross Arm)	0 °	0' 4"	
Insulator#10	16 kV Pin (Cross Arm)	0 °	4' 1"	
Insulator#11	16 kV Pin (Cross Arm)	0 °	11' 8"	

Location 4548126E Location Forms

SAP

- **Field Inspection Date:** 11/30/2022
- **High Fire:** Extreme
- **Special Project:** No
- **Associated Poles:**
- **Visible Damage:** No
- **Pole Type:** ED
- **District:** 59 - Valencia
- **Region:** --
- **Above 3000 Ft Elevation:** No
- **As Designed Work Type:** Replace
- **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:**