

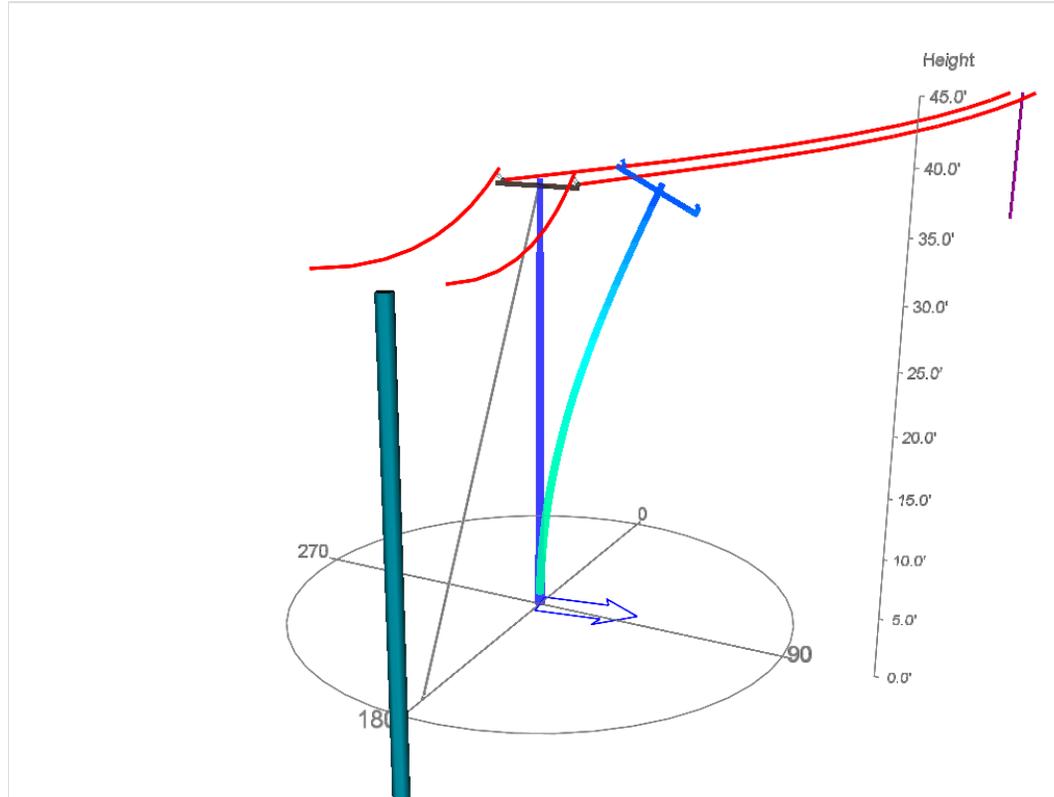
Location Properties

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	4574	5.84 from stress at 3' 3"	3.82 (Guy#1)	No Data	No Data	No Data	No Data	100%	Y	N
As Designed	4574	2.98 from stress at 11' 6"	2.57 (Guy#1)	No Data	No Data	No Data	No Data	100%	Y	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	5.84 from stress at 3' 3"	1369 / 8000 lbin ²	80 °	8000 lbin ²
Guy#1	3.82	2346 / 8950 lbf	280 °	8950 lbf

Wire End Points and Wires

WEP#1	Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground			
	Next Pole	None	316'	0°	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 ACSR	SCE	Primary	Light Full	37' 8"	0' 0"	1	277 lbf	Dynamic	571.41 lbf**	5' 5****
Wire#2	4 ACSR	SCE	Primary	Light Full	37' 8"	0' 0"	1	277 lbf	Dynamic	574.56 lbf**	5' 5****

WE#2												
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground					
Previous Pole	None	52'	160 °	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#3	4 ACSR	SCE	Primary	Light Reduced Unguyed	38' 9"	0' 0"	1	9 lb#	Dynamic	83.5 lb#*	1' 0"***	
Wire#4	4 ACSR	SCE	Primary	Light Reduced Unguyed	38' 9"	0' 0"	1	9 lb#	Dynamic	83.5 lb#*	1' 0"***	

* 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.

Anchors

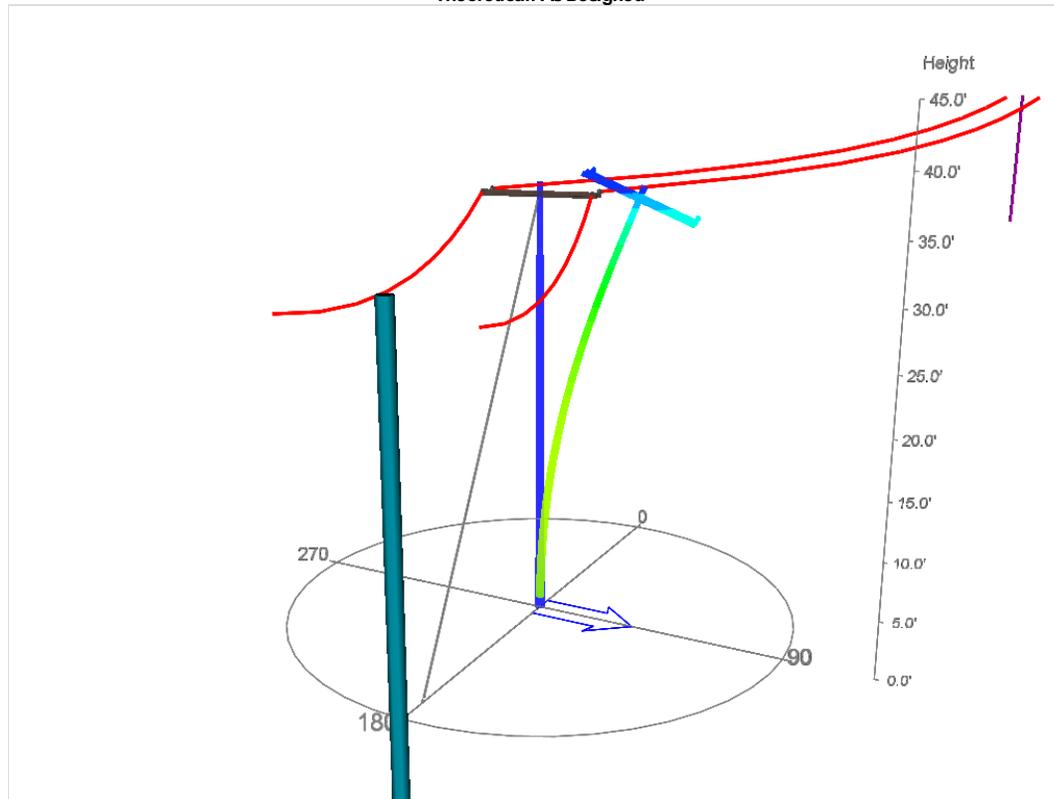
Anchor#1										
Size	Owner	Lead	Direction	Height	Supporting					
1" Triple Eye - Anchor Rod and Plate	SCE	19' 0"	181 °	0' 0"	Other					
ID	Size	Owner	Height	Angle	Brace ID	Brace Size	Brace Length	Brace Direction	In Service, 12 lb, Grade A	
Guy#1	9/32" EHS	SCE	37' 0"	27 °	N/A	N/A	N/A	N/A	1172.05 lb#*	1.02 lb#**

* Pretension values are calculated at 60°F (15.5°C) and without load factors.
 ** Tension value is calculated without load factors or wind.

Cross Arms						
ID	Size	Height	Association	Direction	Offset	Insulators
CrossArm#1	8 Foot Cross Arm	37' 6"	Other	275 °	4' 0"	Insulator#1, Insulator#2, Insulator#3, Insulator#4

Insulators						
ID	Size	Direction	Offset	Wires		
Insulator#1	12 KV Deadend	0 °	0' 4"	Wire#2		
Insulator#2	12 KV Post (Cross Arm)	160 °	0' 4"	Wire#3		
Insulator#3	12 KV Deadend	0 °	7' 8"	Wire#1		
Insulator#4	12 KV Post (Cross Arm)	160 °	7' 8"	Wire#4		

Theoretical: As Designed



Analysis Results

Component	In Service, 12 lb, Grade B (Governing Case)			Client File Maximum Rating
	Safety Factor	Load (Applied / Allowable)	Wind Direction	
Pole	2.98 from stress at 11' 6"	2682 / 8000 lb/in²	90 °	8000 lb/in²
Guy#1	2.57	5983 / 15400 lbf	280 °	15400 lbf

Wire End Points and Wires

WEP#1												
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground					
Next Pole	None	316'	0°	Undefined	0°	N/A	N/A					
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	In Service, 12 lb, Grade B		
Wire#1	1/0 ACSR Tree Wire XLPE	SCE	Primary	Light Full	37' 2"	0' 0"	1	818 lbF	Dynamic	Tension	Sag	
Wire#2	1/0 ACSR Tree Wire XLPE	SCE	Primary	Light Full	37' 2"	0' 0"	1	818 lbF	Dynamic	1519.08 lbF**	8' 5"***	
										1490.13 lbF**	8' 6"***	

WEP#2												
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground					
Previous Pole	None	52'	180°	Undefined	0°	N/A	N/A					
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	In Service, 12 lb, Grade B		
Wire#3	1/0 ACSR Tree Wire XLPE	SCE	Primary	Light Reduced Unguyed	37' 2"	0' 0"	1	35 lbF	Dynamic	Tension	Sag	
Wire#4	1/0 ACSR Tree Wire XLPE	SCE	Primary	Light Reduced Unguyed	37' 2"	0' 0"	1	35 lbF	Dynamic	273.35 lbF*	0' 10"***	
										273.35 lbF*	0' 10"***	

* 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.

Anchors

Anchor#1										
Size	Owner	Lead	Direction	Height	Supporting					
1" Triple Eye - Anchor Rod and Plate	SCE	19' 0"	181°	0' 0"	Other					
ID	Size	Owner	Height	Angle	Brace ID	Brace Size	Brace Length	Brace Direction	In Service, 12 lb, Grade B	
Guy#1	3/8" EHS	SCE	36' 6"	27°	N/A	N/A	N/A	N/A	Pretension	Tension
									3358.85 lbF*	1.29 lbF**

* Pretension values are calculated at 60°F (15.5°C) and without load factors.
 ** Tension value is calculated without load factors or wind.

Cross Arms							
ID	Size	Height	Association	Direction	Offset	Insulators	
CrossArm#1	10 Foot Double Cross Arm	37' 0"	Bisector	80°	5' 0"	Insulator#1, Insulator#2, Insulator#3, Insulator#4	

Insulators						
ID	Size	Direction	Offset	Wires		
Insulator#1	12 KV Deadend	0°	0' 4"	Wire#1		
Insulator#2	12 KV Deadend	180°	0' 4"	Wire#3		
Insulator#3	12 KV Deadend	0°	9' 8"	Wire#2		
Insulator#4	12 KV Deadend	180°	9' 8"	Wire#4		

Location 177544E Location Forms

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:
- FM:
- Location:
- City:
- Brand Height:
- Date Pole Load Performed:
- Comments:
- GPS Location: N/A

QC Comments

- QC Comments:

SAP

- Field Inspection Date: 10/19/2016
- High Fire: Extreme
- Special Project: No
- Associated Poles:
- Visible Damage: No
- Pole Type: ED
- District: -
- Region: -
- Above 3000 Ft Elevation: -
- As Designed Work Type: Existing
- Access Notes:

