

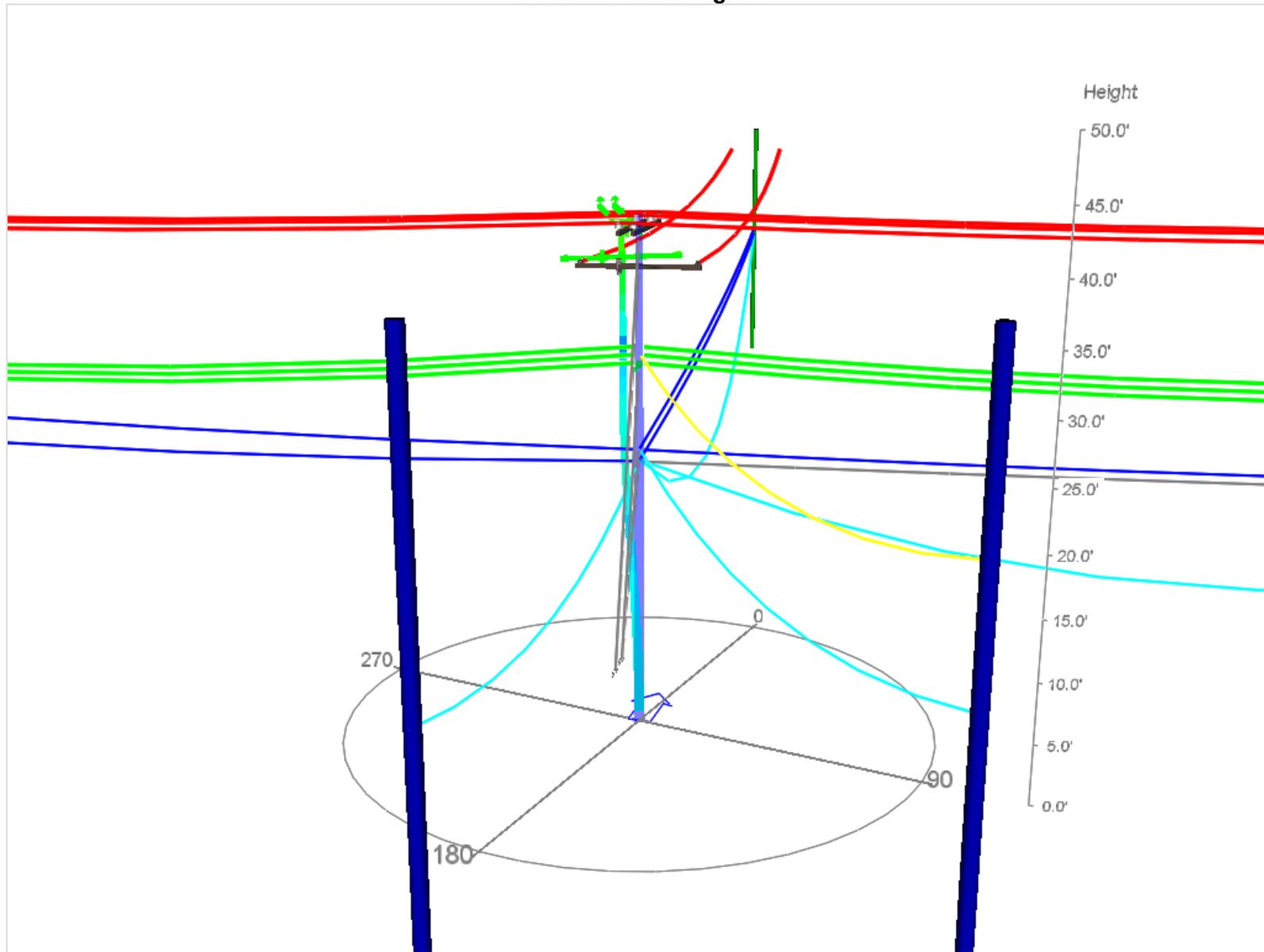
Location Properties

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	50/4	7.29 from stress at 41' 0"	2.06 (Guy#1)	No Data	No Data	No Data	No Data	100%	Y	N

Theoretical: As Designed



Analysis Results

Loading

Component	New, Heavy, 6 lb, Grade A (Governing Case)			Client File Maximum Rating
	Safety Factor	Load (Applied / Allowable)	Wind Direction	
Pole	7.29 from stress at 41' 0"	1043 / 7600 lbf/in ²	350 °	7600 lbf/in ²
Guy#1	2.06	5431 / 11200 lbf	60 °	11200 lbf
Guy#2	2.2	3029 / 6650 lbf	60 °	6650 lbf
Guy#4	2.93	5262 / 15400 lbf	350 °	15400 lbf
Guy#5	3	5136 / 15400 lbf	350 °	15400 lbf
Guy#6	2.37	3781 / 8950 lbf	350 °	8950 lbf

Wire End Points and Wires

WEP#1											
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground				
Other Pole	None	98'	70 °	Undefined.	0 °	N/A	N/A				
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	New, Heavy, 6 lb, Grade A	
										Tension	Sag
Wire#2	336.4 ACSR Tree Wire	SCE	Primary	Heavy Full	42' 9"	0' 0"	1	889 lbf*	Dynamic	2704.98 lbf**	0' 10"****
Wire#3	336.4 ACSR Tree Wire	SCE	Primary	Heavy Full	42' 9"	0' 0"	1	889 lbf*	Dynamic	2622.74 lbf**	0' 10"****
Wire#5	336.4 ACSR Tree Wire	SCE	Primary	Heavy Full	42' 9"	0' 0"	1	889 lbf*	Dynamic	2643.65 lbf**	0' 10"****
Wire#9	1/0 WP Al.	SCE	Secondary	Heavy Full	32' 6"	0' 0"	1	94 lbf*	Dynamic	709.35 lbf**	1' 9"****
Wire#13	1/0 WP Al.	SCE	Secondary	Heavy Full	31' 10"	0' 0"	1	94 lbf*	Dynamic	712.27 lbf**	1' 9"****
Wire#11	1/0 WP Al.	SCE	Secondary	Heavy Full	31' 2"	0' 0"	1	94 lbf*	Dynamic	715.26 lbf**	1' 9"****
Wire#15	.75" CATV 1/4" Messenger	Charter Communications	Communication	Heavy Full	24' 0"	0' 0"	1	727 lbf*	Dynamic	1438.58 lbf**	1' 2"****
Wire#19	5/16" EHS	Frontier	Guy	Heavy Full	23' 0"	0' 0"	1	1100 lbf*	Dynamic	1986 lbf**	0' 7"****
Wire#28	.25" TELCO Service	Frontier	Communication Service	Service	23' 0"	0' 0"	1	9 lbf*	Dynamic	107.86 lbf**	9' 1"****

WEP#4											
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground				
Building	None	54'	135 °	Undefined.	0 °	N/A	N/A				
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	New, Heavy, 6 lb, Grade A	
										Tension	Sag
Wire#27	4 Al. Triplex Service	SCE	Utility Service	Service	31' 10"	0' 0"	1	16 lbf*	Dynamic	85.67 lbf**	4' 0"****
Wire#18	.25" CATV Service	Charter Communications	Communication Service	Service	24' 0"	0' 0"	1	6 lbf*	Dynamic	51.82 lbf**	4' 1"****

WEP#5											
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground				
Building	None	52'	165 °	Undefined.	0 °	N/A	N/A				
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	New, Heavy, 6 lb, Grade A	
										Tension	Sag
Wire#22	.25" TELCO Service	Frontier	Communication Service	Service	23' 0"	0' 0"	1	6 lbf*	Dynamic	48.44 lbf**	3' 9"****

WEP#2											
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground				
Other Pole	None	174'	260 °	Undefined.	0 °	N/A	N/A				
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	New, Heavy, 6 lb, Grade A	
										Tension	Sag
Wire#1	336.4 ACSR Tree Wire	SCE	Primary	Heavy Full	42' 9"	0' 0"	1	891 lbf*	Dynamic	2717.94 lbf**	2' 6****
Wire#4	336.4 ACSR Tree Wire	SCE	Primary	Heavy Full	42' 9"	0' 0"	1	891 lbf*	Dynamic	2726.62 lbf**	2' 6****
Wire#6	336.4 ACSR Tree Wire	SCE	Primary	Heavy Full	42' 9"	0' 0"	1	891 lbf*	Dynamic	2698.29 lbf**	2' 7****
Wire#10	1/0 WP AL	SCE	Secondary	Heavy Full	32' 6"	0' 0"	1	93 lbf*	Dynamic	701.1 lbf**	5' 8****
Wire#14	1/0 WP AL	SCE	Secondary	Heavy Full	31' 10"	0' 0"	1	93 lbf*	Dynamic	700.74 lbf**	5' 8****
Wire#12	1/0 WP AL	SCE	Secondary	Heavy Full	31' 2"	0' 0"	1	93 lbf*	Dynamic	700.39 lbf**	5' 8****
Wire#16	.75" CATV 1/4" Messenger	Charter Communications	Communication	Heavy Full	24' 0"	0' 0"	1	714 lbf*	Dynamic	1585.39 lbf**	3' 5****
Wire#21	1.5" TELCO 5/16" Messenger	Frontier	Communication	Heavy Full	23' 0"	0' 0"	1	1279 lbf*	Dynamic	2452.85 lbf**	4' 2****

WEP#3											
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground				
Other Pole	None	180'	340 °	Undefined.	0 °	N/A	N/A				
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	New, Heavy, 6 lb, Grade A	
										Tension	Sag
Wire#7	1/0 ACSR Tree Wire XLPE	SCE	Primary	Heavy Full	39' 2"	0' 0"	0.31	336.66 lbf*	Dynamic	887.27 lbf**	4' 9****
Wire#8	1/0 ACSR Tree Wire XLPE	SCE	Primary	Heavy Full	39' 2"	0' 0"	0.31	336.66 lbf*	Dynamic	895.02 lbf**	4' 9****
Wire#17	.5" CATV 1/4" Messenger	Charter Communications	Communication	Heavy Full	24' 0"	0' 0"	1	665 lbf*	Dynamic	1198.14 lbf**	3' 0****
Wire#20	1" TELCO 5/16" Messenger	Frontier	Communication	Heavy Full	23' 0"	0' 0"	1	1300 lbf*	Dynamic	2097.21 lbf**	3' 1****
Wire#23	.25" TELCO Service	Frontier	Communication Service	Service	23' 0"	0' 0"	1	15 lbf*	Dynamic	119.2 lbf**	18' 5****
Wire#24	.25" TELCO Service	Frontier	Communication Service	Service	23' 0"	0' 0"	1	15 lbf*	Dynamic	119.2 lbf**	18' 5****
Wire#25	.25" TELCO Service	Frontier	Communication Service	Service	23' 0"	0' 0"	1	15 lbf*	Dynamic	119.2 lbf**	18' 5****
Wire#26	.25" TELCO Service	Frontier	Communication Service	Service	23' 0"	0' 0"	1	15 lbf*	Dynamic	119.2 lbf**	18' 5****

* 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 2 Cutouts	SCE	Cutout Arrestor	39' 0"	39' 0"	250 °

Anchors

Anchor#1											
Size	Owner	Lead	Direction	Height	Supporting						
10-Inch Double Helix 9 Pin - 1/2" Anchor Hub	SCE	10' 6"	160 °	10' 0"	Other						
ID	Size	Owner	Height	Angle	Brace ID	Brace Size	Brace Length	Brace Direction	New, Heavy, 6 lb, Grade A		
									Pretension	Tension	
Guy#6	9/32" EHS	SCE	30' 6"	27 °	N/A	N/A	N/A	N/A	950.77 lbf*	1.43 lbf**	
Guy#2	1/4" EHS	Charter Communications	24' 0"	37 °	N/A	N/A	N/A	N/A	1043.15 lbf*	0.55 lbf**	
Guy#1	5/16" EHS	Frontier	23' 0"	39 °	N/A	N/A	N/A	N/A	1941.05 lbf*	0.65 lbf**	

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

Anchor#2										
Size		Owner	Lead	Direction		Height		Supporting		
10-Inch Double Helix 9 Pin - 1/2" Anchor Hub		SCE	14' 0"	160 °		10' 6"		Other		
ID	Size	Owner	Height	Angle	Brace ID	Brace Size	Brace Length	Brace Direction	New, Heavy, 6 lb, Grade A	
Guy#4	3/8" EHS	SCE	41' 0"	25 °	N/A	N/A	N/A	N/A	Pretension	Tension
Guy#5	3/8" EHS	SCE	38' 6"	27 °	N/A	N/A	N/A	N/A	1240.34 lbf*	2.71 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#2	10 Foot Cross Arm	39' 0"	WEP#3	250 °	5' 0"	Insulator#4, Insulator#5
CrossArm#1	10 Foot Double Cross Arm	42' 0"	Bisector	345 °	5' 0"	Insulator#1, Insulator#2, Insulator#3

Insulators					
ID	Size	Direction	Offset	Wires	
Insulator#4	12 kV Deadend	340 °	0' 4"	Wire#7	
Insulator#5	12 kV Deadend	340 °	9' 8"	Wire#8	
Insulator#1	12 kV Pin (Cross Arm)	260 °	0' 4"	Wire#1, Wire#5	
Insulator#2	12 kV Pin (Cross Arm)	70 °	9' 8"	Wire#2, Wire#6	
Insulator#3	12 kV Pin (Cross Arm)	70 °	3' 5"	Wire#3, Wire#4	

Point Loads					
ID	Owner	Height	X Force	Y Force	Z Force
PointLoad#1	SCE	30' 6"	1463.61 lbf	530.2 lbf	-8.61 lbf

Location 1480868E Location Forms

SAP
<ul style="list-style-type: none"> Field Inspection Date: 03/17/2020 High Fire: No Special Project: No Associated Poles: Visible Damage: No Pole Type: ED District: 40 - Arrowhead Region: -- Above 3000 Ft Elevation: -- As Designed Work Type: Replace Access Notes:

Pole Info Form
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> QC Comments: