

## Location Properties

Technician:

Address:

City:

County:

Cross Street 1:

Remedy:

Comments:

Map Number:

Pole Tags:

State:

Zip Code:

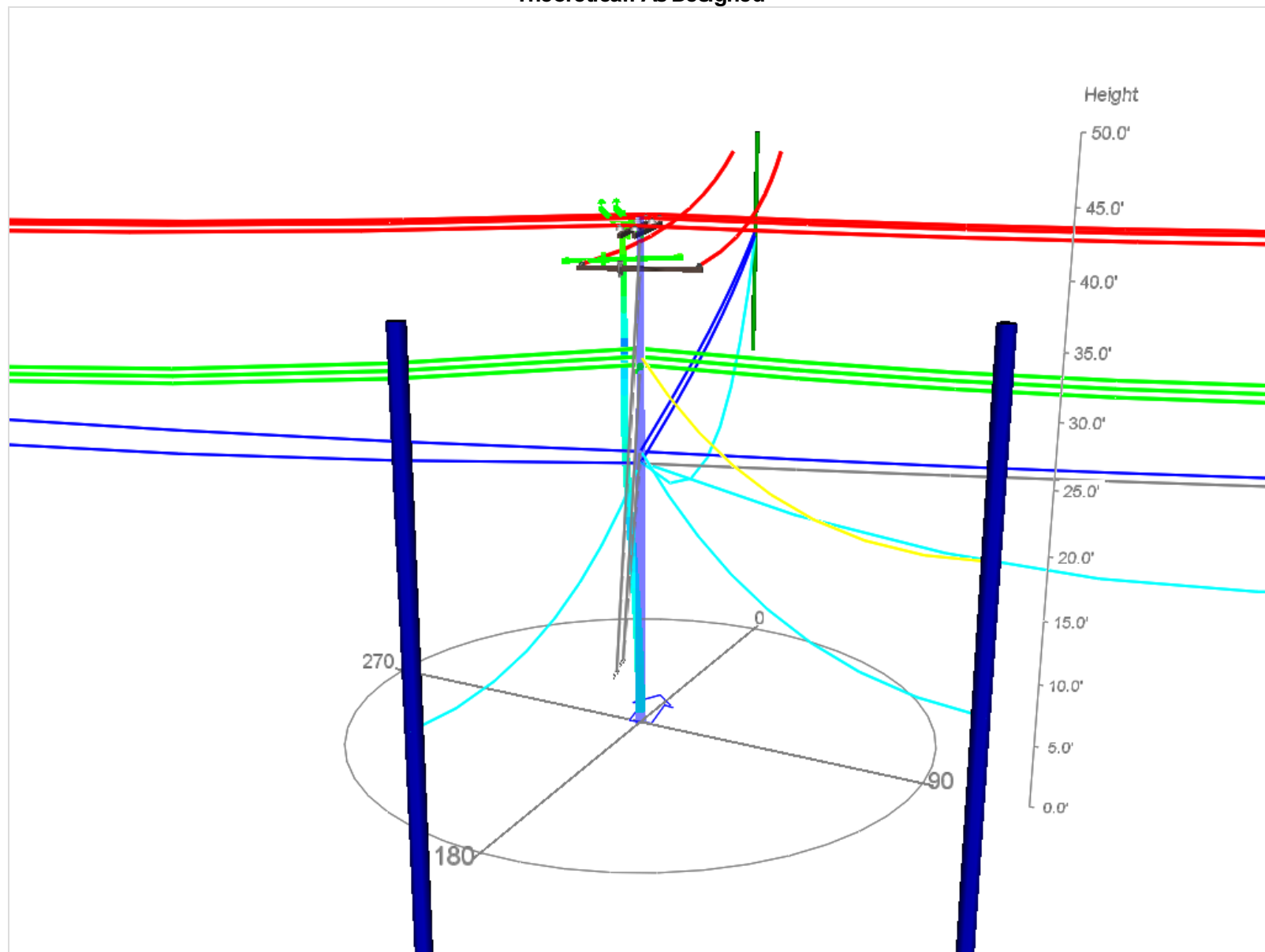
Cross Street 2:

Summary Notes:

## 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/in²	350 °	7600 lbf/in²
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 y Full	42' 9"	0' 0"	1	891 lbF*	Dynamic	2717.94 lbF**	2' 6"***
	Wire#4	336.4 ACSR Tree Wire	SCE	Primary	Heavy y Full	42' 9"	0' 0"	1	891 lbF*	Dynamic	2726.62 lbF**	2' 6"***
	Wire#6	336.4 ACSR Tree Wire	SCE	Primary	Heavy y Full	42' 9"	0' 0"	1	891 lbF*	Dynamic	2698.29 lbF**	2' 7"***
	Wire#10	1/0 WP Al.	SCE	Secondary	Heavy y Full	32' 6"	0' 0"	1	93 lbF*	Dynamic	701.1 lbF**	5' 8"***
	Wire#14	1/0 WP Al.	SCE	Secondary	Heavy y Full	31' 10"	0' 0"	1	93 lbF*	Dynamic	700.74 lbF**	5' 8"***
	Wire#12	1/0 WP Al.	SCE	Secondary	Heavy y 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 y 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 y 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 lb*	1.43 lb**
Guy#2	1/4" EHS	Charter Communications	24' 0"	37 °	N/A	N/A	N/A	N/A	1043.15 lb*	0.55 lb**
Guy#1	5/16" EHS	Frontier	23' 0"	39 °	N/A	N/A	N/A	N/A	1941.05 lb*	0.65 lb**

\* 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	Pretension	Tension
Guy#4	3/8" EHS	SCE	41' 0"	25 °	N/A	N/A	N/A	N/A		1240.34 lbf*	2.71 lbf**
Guy#5	3/8" EHS	SCE	38' 6"	27 °	N/A	N/A	N/A	N/A		1199.68 lbf*	2.49 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**

- 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**

- 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: