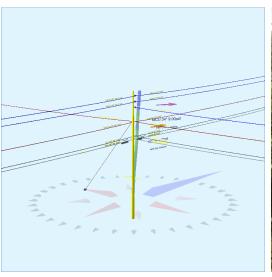
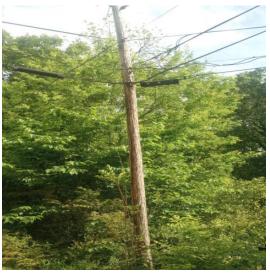
Pole Num:	91458483_P.F1	Pole Length	/ Class:	45 / 4	Code:	NESC	Structure Type:		Junction
Aux Data 1	Uns	et Species:	sou	THERN PINE	NESC Rule:	Rule 250B	Status	Guy Wir	es Adequate
Aux Data 2	Uns	<mark>et</mark> Setting Dept	h (ft):	6.50	Construction Grade:	C	Pole Strength Fact	or:	0.85
Aux Data 3	Uns	<mark>et</mark> G/L Circumfe	erence (in):	34.82	Loading District:	Light	Transverse Wind L	F:	1.75
Aux Data 4	Uns	<mark>et</mark> G/L Fiber Sti	ess (psi):	8,000	Ice Thickness (in):	0.00	Wire Tension LF:		1.30
Aux Data 5	Uns	<mark>et</mark> Allowable St	ress (psi):	6,800	Wind Speed (mph):	59.29	Vertical LF:		1.90
Aux Data 6	Uns	et Fiber Stress	Ht. Reduc:	No	Wind Pressure (psf):	9.00			
Latitude:		0.0000	<mark>00 Deg</mark> Longit	ude:		0.000000 Deg	Elevation:		0 Feet



Pole ID:Pole_91458483_P_F148_pplx.pplx



Pole Capacity Util	ization (%)	Height (ft)	Wind Angle (deg)
Maximum	39.5	22.0	34.4
Groundline	32.9	0.0	8.4
Vertical	9.2	26.5	90.0

Pole Moments (ft-	b)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	12,808	280.0	34.4
Groundline	23,528	49.7	8.4
GL Allowable	75,750		

Guy System Component Summary				Load From Angle o		Individual Maximum Load		
Description	Lead Length (ft)	Lead Angle (deg)	Height (ft)	Nominal Capacity (%)	Wind Angle (deg)	Max Load Capacity (%)	Wind Angle (deg)	
Single Helix Anchor	23.0	270.0		39.6	34.4	44.4	87.2	
EHS 3/8 (Down)			28.0	57.1	34.4	70.5	87.2	
		System Capac	ity Summary:	Adeq	_l uate	Adec	Juate	

Groundline Load Summar	y - Reporting A	Angle Mode: L	oad - Reportir	ng Angle: 49.7	70					
	Shear Load* (Ibs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
Powers	1,287	83.9	42,352	180.0	55.9	3,802	513	5	3,807	56.0
Comms	3,674	239.5	82,136	349.1	108.4	7,373	513	5	7,379	108.5
GuyBraces	-3,796	-247.4	-107,837	-458.3	-142.4	-9,680	9,237	96	-9,585	-141.0
Pole	337	22.0	5,957	25.3	7.9	535	1,928	20	555	8.2
Insulators	32	2.1	921	3.9	1.2	83	63	1	83	1.2
Pole Load	1,534	100.0	23,528	100.0	31.1	2,112	12,253	127	2,239	32.9
Pole Reserve Capacity			52,222		68.9	4,688			4,561	67.1

Load Summary by Owner	- Reporting An	gle Mode: Lo	ad - Reporting	Angle: 49.7°						
	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
FPL	1,625	105.9	48,309	205.3	63.8	4,337	2,441	25	4,362	64.1
CATV	1,224	79.8	28,172	119.7	37.2	2,529	171	2	2,531	37.2
AT&T	2,451	159.7	53,964	229.4	71.2	4,844	342	4	4,848	71.3
<undefined></undefined>	-3,765	-245.4	-106,917	-454.4	-141.1	-9,598	9,299	96	-9,501	-139.7
Totals:	1,534	100.0	23,528	100.0	31.1	2,112	12,253	127	2,239	32.9

Detailed Load Components:

Power	•	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Primary	FPL	FPL	36.97	16.18	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	37,273	12	155	37,440
Primary	FPL	FPL	36.97	16.18	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-37,273	12	155	-37,105
Primary	FPL	FPL	34.97	16.29	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	35,256	13	146	35,416
Primary	FPL	FPL	34.97	16.29	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-35,256	13	146	-35,097
Primary	FPL	FPL	32.97	16.41	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	39,246	13	788	40,047
Secondary	FPL	FPL	27.97	5.94	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	33,294	18	669	33,981
Secondary	FPL	FPL	27.97	5.94	0.5700	1.19	0.600	100.0	270.0	100.0	1,200	-33,294	18	669	-32,607
Secondary	FPL	FPL	27.97	5.94	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	28,199	22	117	28,337
Secondary	FPL	FPL	27.97	5.94	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-28,199	22	117	-28,060
											Totals:	39,246	143	2,963	42,352

O-Calc® Pro Analysis Report

Comm		Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
CATV	CATV	CATV	22.97	6.23	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	27,342	19	567	27,928
CATV	CATV	CATV	22.97	6.23	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	23,157	23	99	23,279
CATV	CATV	CATV	22.97	6.23	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-23,157	23	99	-23,035
Telco	AT&T	AT&T	21.97	6.28	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	26,151	19	525	26,696
Telco	AT&T	AT&T	21.97	6.28	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	26,151	19	525	26,696
Telco	AT&T	AT&T	21.97	6.28	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	22,149	23	140	22,312
Telco	AT&T	AT&T	21.97	6.28	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-22,149	23	157	-21,970
Telco	AT&T	AT&T	21.97	6.28	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	22,149	23	92	22,264
Telco	AT&T	AT&T	21.97	6.28	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-22,149	23	92	-22,034
											Totals:	79,644	194	2,298	82,136

Insulator		Owner	Height (ft)	Horiz. Offset	Offset Angle	Rotate Angle	Unit Weight	Unit Diameter	Unit Length	Offset Moment*	Wind Moment*	Moment at GL*
				(in)	(deg)	(deg)	(lbs)	(in)	(in)	(ft-lb)	(ft-lb)	(ft-lb)
Deadend	Deadend 12.75"		37.00	0.00	90.0	90.0	3.00	3.80	12.75	6	147	153
Deadend	Deadend 12.75"		35.00	0.00	90.0	90.0	3.00	3.80	12.75	6	139	145
Deadend	Deadend 12.75"		33.00	0.00	90.0	90.0	3.00	3.80	12.75	6	131	137
Bolt	Deadend 12.75"		28.00	0.00	0.0	0.0	3.00	2.00	15.00	2	69	71
Bolt	Deadend 12.75"		28.00	0.00	90.0	90.0	3.00	2.00	15.00	2	69	71
Bolt	Deadend 12.75"		23.00	0.00	0.0	0.0	3.00	2.00	15.00	2	57	59
Bolt	Deadend 12.75"		23.00	0.00	90.0	90.0	3.00	2.00	15.00	2	57	59
Bolt	Deadend 12.75"		22.00	0.00	0.0	0.0	3.00	2.00	15.00	2	54	56
Bolt	Deadend 12.75"		22.00	0.00	0.0	0.0	3.00	2.00	15.00	2	54	56
Bolt	Deadend 12.75"		22.00	0.00	90.0	90.0	3.00	2.00	15.00	2	54	57
Bolt	Deadend 12.75"		22.00	0.00	90.0	90.0	3.00	2.00	15.00	2	54	57
									Totals:	34	886	921

Guy Wire and Brad	ce	Owner	Attach Height (ft)	End Height (ft)	Lead/Span Length (ft)	Wire Diameter (in)	Percent Solid (%)	Lead Angle (deg)	Incline Angle (deg)	Wire Weight (lbs/ft)	Rest Length (ft)	Stretch Length (in)
EHS 3/8	Down		28.00	0.00	23.00	0.375	75.00	270.0	50.4	0.273	34.53	1.72

Guy Wire and Brac (Loads and Reaction		Elastic Modulus (psi)	Rated Tensile Strength (lbs)	Guy Strength Factor	Allowable Tension (lbs)	Initial Tension (lbs)	Loaded Tension* ² (lbs)	Maximum Tension ² (lbs)	Applied Tension³ (lbs)	Vertical Load (lbs)	Shear Load In Guy Dir (Ibs)	Shear Load At Report Angle (Ibs)	Moment at GL³ (ft-lb)
EHS 3/8	Down	2.30e+7	15,400	0.90	13,860	700	9,774	8,885	7,918	6,104	5,043	-3,848	-107,837
									Totals:	6,104	5,043	-3,848	-107,837

O-Calc® Pro Analysis Report

Anchor/Rod Load Summary	Owner	Rod Length AGL (in)	Lead Length (ft)	Lead Angle (deg)	Strength of Assembly (lbs)	Anchor/Rod Strength Factor	Allowable Load (lbs)	Max Load² (lbs)	Load at Pole MCU ³ (lbs)	Max Required Capacity² (%)
Single Helix Anchor		18.00	23.00	270.0	20,000	1.00	20,000	8,885	7,918	44.4

Pole Buckli	Pole Buckling												
Buckling Constant	Buckling Column Height* (ft)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Section Diameter (in)	Minimum Buckling Diameter at GL (in)	Diameter at Tip (in)	Diameter at GL (in)	Modulus of Elasticity (psi)	Pole Density (pcf)	Ice Density (pcf)	Pole Tip Height (ft)	Buckling Load Capacity at Height (lbs)	Buckling Load Applied at Height (lbs)	Buckling Load Factor of Safety
0.71	26.46	34.09	10.05	16.92	6.69	11.09	1.60e+6	60.00	57.00	38.50	133,453	1331.87	10.87

Notes							
Date	Author	Description					
1/27/2021		Power Company Request					
Power company load data has been requested. Email sent to Elmer Pole							
1/27/2021		General Description					
General Statement: Non-AT&T facilities may not be accurately identified pending attachment information from attaching party.							