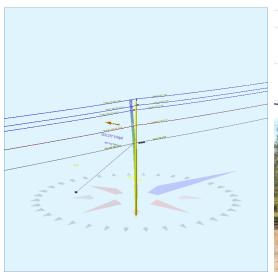
Pole Num:	93101044_	P.F614	Pole Length /	Class:	40 / 5	Code:	NESC	Structure Type:	Gu	yed Tangent
Aux Data 1		Unset	Species:	SOU	THERN PINE	NESC Rule:	Rule 250B	Status C	3uy Wir	es Adequate
Aux Data 2		Unset	Setting Depth	n (ft):	6.00	Construction Grade:	С	Pole Strength Facto	r:	0.85
Aux Data 3		Unset	G/L Circumfe	rence (in):	31.00	Loading District:	Light	Transverse Wind LF	₹:	1.75
Aux Data 4		Unset	G/L Fiber Stre	ess (psi):	8,000	Ice Thickness (in):	0.00	Wire Tension LF:		1.30
Aux Data 5		Unset	Allowable Str	ess (psi):	6,800	Wind Speed (mph):	59.29	Vertical LF:		1.90
Aux Data 6		Unset	Fiber Stress I	Ht. Reduc:	No	Wind Pressure (psf):	9.00			
Latitude:			0.00000	00 Deg Longit	ude:		0.000000 Deg	Elevation:		0 Feet





Pole Capacity Util	ization (%)	Height (ft)	Wind Angle (deg)
Maximum	35.8	0.0	270.0
Groundline	35.8	0.0	270.0
Vertical	1.3	20.2	65.0

Pole Moments (ft-	b)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	18,911	270.2	270.0
Groundline	18,911	270.2	270.0
GL Allowable	53,452		

Guy System Component Summary				Load From Angle o	Worst Wind on Pole	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	245.0		0.0	270.0	6.2	85.6	
EHS 3/8 (Down)			20.0	0.0	270.0	9.8	85.6	
	System Capac	ity Summary:	Aded	_l uate	Adequate			

Groundline Load Summary	y - Reporting A	Angle Mode: L	oad - Reportii	ng Angle: 270	.2°					
	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 (%)
Powers	299	35.0	9,268	49.0	17.3	1,179	456	6	1,185	17.4
Comms	173	20.2	3,336	17.6	6.2	424	228	3	427	6.3
GuyBraces	1	0.2	27	0.1	0.1	3	6	0	3	0.1
Pole	355	41.6	5,554	29.4	10.4	707	1,364	18	724	10.7
Insulators	26	3.0	726	3.8	1.4	92	34	0	93	1.4
Pole Load	854	100.0	18,911	100.0	35.4	2,406	2,088	27	2,433	35.8
Pole Reserve Capacity			34,541		64.6	4,394			4,367	64.2

Load Summary by Owner -	oad Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 270.2°														
	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	654	76.6	14,822	78.4	27.7	1,886	1,820	24	1,909	28.1					
AT&T	173	20.2	3,336	17.6	6.2	424	228	3	427	6.3					
<undefined></undefined>	27	3.2	753	4.0	1.4	96	40	1	96	1.4					
Totals:	854	100.0	18,911	100.0	35.4	2,406	2,088	27	2,433	35.8					

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	35.03	3.02	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	165	-14	1,310	1,461
Primary	FPL	FPL	35.03	3.02	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-165	-14	1,310	1,132
Primary	FPL	FPL	32.97	15.83	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	155	-15	1,233	1,374
Primary	FPL	FPL	32.97	15.83	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-155	-15	1,233	1,064
Primary	FPL	FPL	30.97	15.94	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	146	15	1,158	1,319
Primary	FPL	FPL	30.97	15.94	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-146	15	1,158	1,028
Secondary	FPL	FPL	25.97	5.47	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	122	-26	971	1,068
Secondary	FPL	FPL	25.97	5.47	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-122	-26	971	823
											Totals:	0	-79	9,347	9,268

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)
Telco	AT&T	AT&T	19.97	5.81	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	94	-28	747	813

Pole ID:Pole_93101044_P_F614_pplx.pplx	O-Calc® Pro Analysis Report	Monday, May 13, 2024 11:02 AM
--	-----------------------------	-------------------------------

Telco	AT&T	AT&T	19.97	5.81	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-94	-28	747	625
Telco	AT&T	AT&T	19.97	5.81	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	94	-28	1,206	1,272
Telco	AT&T	AT&T	19.97	5.81	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-94	-28	747	625
											Totals:	0	-110	3,446	3,336

Insulator		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Deadend	Deadend 12.75"		34.00	0.00	90.0	90.0	3.00	3.80	12.75	-1	180	179
Deadend	Deadend 12.75"		33.00	0.00	90.0	90.0	3.00	3.80	12.75	-8	175	167
Deadend	Deadend 12.75"		31.00	0.00	270.0	270.0	3.00	3.80	12.75	8	164	172
Bolt	Deadend 12.75"		26.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	85	83
Bolt	Deadend 12.75"		20.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	66	63
Bolt	Deadend 12.75"		20.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	66	63
									Totals:	-10	736	726

Guy Wire and Brace		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		20.00	0.00	23.00	0.375	75.00	245.0	40.9	0.273	28.74	0.00

Guy Wire and Brace (Loads and Reactions)		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 Tension ³ (lbs)	Vertical Load (lbs)	Shear Load In Guy Dir (lbs)	Shear Load At Report Angle (lbs)	Moment at GL³ (ft-lb)
EHS 3/8	Down	2.30e+7	15,400	0.90	13,860	700	1,361	1,237	0	0	0	0	27
									Totals:	0	0	0	27

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 Capacity ² (%)
Single Helix Anchor		18.00	23.00	245.0	20,000	1.00	20,000	1,237	0	6.2

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	20.18	33.45	9.11	6.27	6.05	9.87	1.60e+6	60.00	57.00	34.00	154,800	1606.26	76.92

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	O21 General Description							
General Statement: Non-AT&T facilities may not be accurately identified pending attachment information from attaching party.								