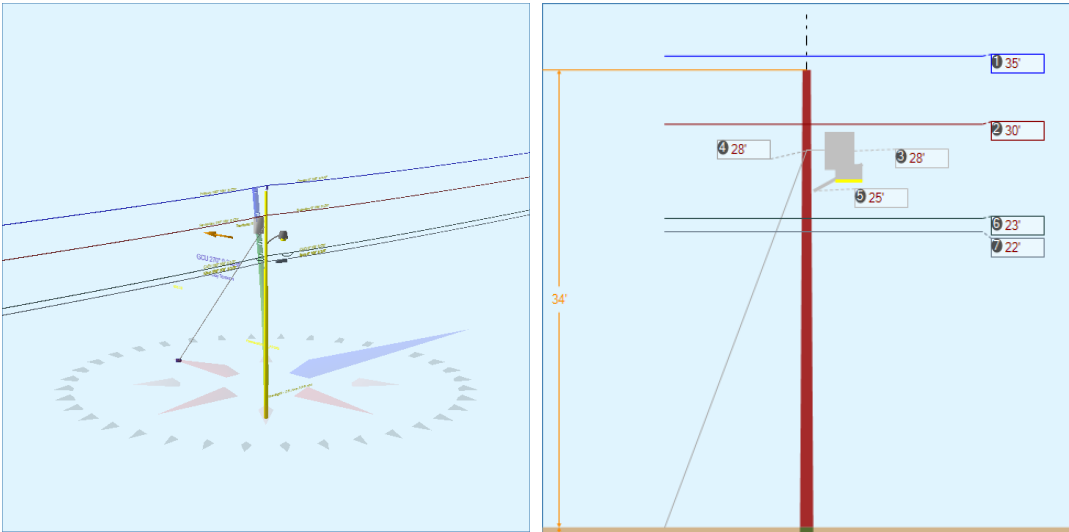


Pole Num:	93337445_P.F1203	Pole Length / Class:	40 / 5	Code:	NESC	Structure Type:	Guyed Tangent
Aux Data 1	Unset	Species:	SOUTHERN PINE	NESC Rule:	Rule 250B	Status	Guy Wires Adequate
Aux Data 2	Unset	Setting Depth (ft):	6.00	Construction Grade:	C	Pole Strength Factor:	0.85
Aux Data 3	Unset	G/L Circumference (in):	31.00	Loading District:	Light	Transverse Wind LF:	1.75
Aux Data 4	Unset	G/L Fiber Stress (psi):	8,000	Ice Thickness (in):	0.00	Wire Tension LF:	1.30
Aux Data 5	Unset	Allowable Stress (psi):	6,800	Wind Speed (mph):	59.29	Vertical LF:	1.90
Aux Data 6	Unset	Fiber Stress Ht. Reduc:	No	Wind Pressure (psf):	9.00		
Latitude:	0.000000 Deg	Longitude:	0.000000 Deg	Elevation:	0 Feet		



Pole Capacity Utilization (%)	Height (ft)	Wind Angle (deg)
Maximum	38.7	0.0 270.0
Groundline	38.7	0.0 270.0
Vertical	2.1	21.7 90.0

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	20,409	270.0 270.0
Groundline	20,409	270.0 270.0
GL Allowable	53,452	

Guy System Component Summary				Load From Worst Wind Angle 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	270.0		0.0	270.0	4.6	90.0
EHS 3/8 (Down)			28.0	0.0	270.0	7.3	90.0
System Capacity Summary:				Adequate		Adequate	

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 270.0°										
	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	150	16.7	4,785	23.4	9.0	609	228	3	612	9.0
Comms	247	27.5	5,333	26.1	10.0	678	342	4	683	10.0
GuyBraces	0	0.0	0	0.0	0.0	0	7	0	0	0.0
PowerEquipments	82	9.1	3,371	16.5	6.3	429	636	8	437	6.4
Pole	355	39.6	5,554	27.2	10.4	707	1,364	18	724	10.7
Streetlights	45	5.0	880	4.3	1.7	112	86	1	113	1.7
Insulators	18	2.1	486	2.4	0.9	62	28	0	62	0.9
Pole Load	896	100.0	20,409	100.0	38.2	2,596	2,691	35	2,632	38.7
Pole Reserve Capacity			33,043		61.8	4,204			4,168	61.3

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 270.0°										
	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	505	56.3	10,339	50.7	19.3	1,315	1,592	21	1,336	19.6
CATV	77	8.6	1,721	8.4	3.2	219	114	1	220	3.2
AT&T	169	18.9	3,611	17.7	6.8	459	228	3	462	6.8
<Undefined>	145	16.2	4,738	23.2	8.9	603	757	10	613	9.0
Totals:	896	100.0	20,409	100.0	38.2	2,596	2,691	35	2,632	38.7

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	0	-14	1,310	1,296
Primary	FPL	FPL	35.03	3.02	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	0	-14	1,310	1,296
Secondary	FPL	FPL	29.97	5.25	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	0	-25	1,121	1,096
Secondary	FPL	FPL	29.97	5.25	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	0	-25	1,121	1,096
Totals:											0	-78	4,863	4,785	

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	5.64	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	0	-27	888	861

CATV	CATV	CATV	22.97	5.64	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	0	-27	888	861
Telco	AT&T	AT&T	21.97	5.70	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	0	-27	1,254	1,227
Telco	AT&T	AT&T	21.97	5.70	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	0	-27	822	795
Telco	AT&T	AT&T	21.97	5.70	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	0	-27	822	795
Telco	AT&T	AT&T	21.97	5.70	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	0	-27	822	795
Totals:												0	-162	5,495	5,333

PowerEquipment		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Transformer	1PH-15KVA		28.00	20.36	270.0	270.0	335.00	34.00	--	22.00	--	1,080	2,291	3,371
Totals:												1,080	2,291	3,371

Streetlight	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
General	Streetlight - 3 ft. Arm	25.00	3.53	90.0	90.0	45.00	24.00	20.00	3.00	36.00	-235	1,116	880
Totals:											-235	1,116	880

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
Bolt	Deadend 12.75"	30.00	0.00	90.0	90.0	3.00	2.00	15.00	-2	98	96
Bolt	Deadend 12.75"	23.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	75	73
Bolt	Deadend 12.75"	22.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	72	69
Bolt	Deadend 12.75"	22.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	72	69
								Totals:	-12	498	486

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	28.00	0.00	23.00	0.375	75.00	270.0	50.4	0.273	34.56	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 GL ³ (ft-lb)
EHS 3/8	Down	2.30e+7	15,400	0.90	13,860	700	1,005	914	0	0	0	0
Totals:										0	0	0

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 Load ² (lbs)	Load at Pole MCU ³ (lbs)	Max Required Capacity ² (%)
Single Helix Anchor		18.00	23.00	270.0	20,000	1.00	20,000	914	0	4.6

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	21.73	33.71	9.04	7.31	6.05	9.87	1.60e+6	60.00	57.00	34.00	129,739	1281.66	47.62

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.		