



Together with Nextel

10 Industrial Ave, Suite 3  
Mahwah, NJ 07430  
Phone: (845)499-4712  
Jennifer Notaro  
Real Estate Consultant

8/7/14

**Hand Delivered**

Ms. Melanie A. Bachman  
Acting Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

CC to Property Owner  
JAY SHERWOOD  
PO BOX 48  
WESTPORT, CT 06881-0048

RE: Sprint Spectrum L.P. notice of intent to modify an existing telecommunications facility located at 20 Post office lane, Westport CT. Known to Sprint Spectrum L.P. as site CT03XC336.

Dear Ms. Bachman:

In order to accommodate technological changes, implement Code Division Multiple Access (“CDMA”) and/or Long Term Evolution (“LTE”) capabilities, and enhance system performance in the state of Connecticut, Sprint Spectrum L.P. plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and its attachments is being sent to the chief elected official of the municipality in which affected cell site is located.

CDMA employs Spread-Spectrum technology and special coding scheme to allow multiple users to be multiplexed over the same physical channel.

LTE is a new high-performance air interface for cellular mobile communications. It is designed to increase the capacity and speed of mobile telephone networks.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in Sprint’s operations at the site. Also included is

documentation of the structural sufficiency of the tower to accommodate the revised antenna configuration.

The changes to the facility do not constitute modification as defined Connecticut General Statutes (“C.G.S.”) Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for the R.C.S.A. Section 16-50j-72(b)(2).

1. The height of the overall structure will not be affected.
2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound.
3. The proposed changes will not increase the noise level at the existing facility by 6 decibels or more.
4. Radio Frequency power density may increase due to the use of one or more CDMA transmissions. Moreover, LTE will utilize additional radio frequencies newly licensed by the FCC for cellular mobile communications. However, the changes will not increase the calculated “worst case” power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons Sprint Spectrum L.P. respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (845)-499-4712 or email [JNotaro@Transcendwireless.com](mailto:JNotaro@Transcendwireless.com) with questions concerning this matter.  
Thank you for your consideration.

Sincerely,

Jennifer Notaro  
Real Estate Consultant

RADIO FREQUENCY FCC REGULATORY COMPLIANCE  
MAXIMUM PERMISSIBLE EXPOSURE (MPE) ASSESSMENT

Sprint Existing Facility

Site ID: CT03XC336

Turkey Hill

20 Post Office Lane  
Westport, CT 06880

**July 16, 2014**

**EBI Project Number: 62143793**

July 16, 2014

Sprint  
Attn: RF Engineering Manager  
1 International Boulevard, Suite 800  
Mahwah, NJ 07495

Re: Radio Frequency Maximum Permissible Exposure (MPE) Assessment for Site:  
**CT03XC336 - Turkey Hill**

**Site Total: 93.43% - MPE% in full compliance**

EBI Consulting was directed to analyze the proposed upgrades to the existing Sprint facility located at 20 Post Office Lane, Westport, CT, for the purpose of determining whether the radio frequency (RF) exposure levels from the proposed Sprint equipment upgrades on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ). The number of  $\mu\text{W}/\text{cm}^2$  calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ). The general population exposure limit for the cellular band (850 MHz Band) is approximately  $567 \mu\text{W}/\text{cm}^2$ , and the general population exposure limit for the 1900 MHz and 2500 MHz bands is  $1000 \mu\text{W}/\text{cm}^2$ . Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

## **CALCULATIONS**

Calculations were done for the proposed upgrades to the existing Sprint Wireless antenna facility located at 20 Post Office Lane, Westport, CT, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. All calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was focused at the base of the tower. For this report the sample point is the top of a 6 foot person standing at the base of the tower.

For all calculations, all emissions were calculated using the following assumptions:

- 1) 3 channels in the 1900 MHz Band were considered for each sector of the proposed installation.
- 2) 1 channel in the 800 MHz Band was considered for each sector of the proposed installation
- 3) 2 channels in the 2500 MHz Band were considered for each sector of the proposed installation.
- 4) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 5) For the following calculations the sample point was the top of a six foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufactures supplied specifications minus 10 dB was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

- 6) The antennas used in this modeling are the RFS APXVSPP18-C-A20 and the RFS APXVTM14-C-I20. This is based on feedback from the carrier with regards to anticipated antenna selection. The RFS APXVSPP18-C-A20 has a 15.9 dBd gain value at its main lobe at 1900 MHz and 13.4 dBd at its main lobe for 850 MHz. The RFS APXVTM14-C-I20 has a 15.9 dBd gain value at its main lobe at 2500 MHz. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 7) The antenna mounting height centerline for the proposed antennas is **120 feet** above ground level (AGL).
- 8) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

All calculation were done with respect to uncontrolled / general public threshold limits

Site ID	CT03XC336 - Turkey Hill
Site Address	20 Post Office Lane, Westport, CT, 06880
Site Type	Monopole

**Sector 1**

Antenna Number	Antenna Make	Antenna Model	Radio Type	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain (10 db reduction)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss (dB)	ERP	Power Density Percentage
1a	RFS	APXVSP18-C-A20	RRH	1900 MHz	CDMA / LTE	20	3	60	5.9	120	114	1/2 "	0.5	0	208.04	0.58%
1a	RFS	APXVSP18-C-A20	RRH	850 MHz	CDMA / LTE	20	1	20	3.4	120	114	1/2 "	0.5	0	39.00	0.19%
1B	RFS	APXVTMM14-C-120	RRH	2500 MHz	CDMA / LTE	20	2	40	5.9	120	114	1/2 "	0.5	0	138.69	0.68%
Sector total Power Density Value:																1.44%

**Sector 2**

Antenna Number	Antenna Make	Antenna Model	Radio Type	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain (10 db reduction)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss (dB)	ERP	Power Density Percentage
2a	RFS	APXVSP18-C-A20	RRH	1900 MHz	CDMA / LTE	20	3	60	5.9	120	114	1/2 "	0.5	0	208.04	0.58%
2a	RFS	APXVSP18-C-A20	RRH	850 MHz	CDMA / LTE	20	1	20	3.4	120	114	1/2 "	0.5	0	39.00	0.19%
2B	RFS	APXVTMM14-C-120	RRH	2500 MHz	CDMA / LTE	20	2	40	5.9	120	114	1/2 "	0.5	0	138.69	0.68%
Sector total Power Density Value:																1.44%

**Sector 3**

Antenna Number	Antenna Make	Antenna Model	Radio Type	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain (10 db reduction)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss (dB)	ERP	Power Density Percentage
3a	RFS	APXVSP18-C-A20	RRH	1900 MHz	CDMA / LTE	20	3	60	5.9	120	114	1/2 "	0.5	0	208.04	0.58%
3a	RFS	APXVSP18-C-A20	RRH	850 MHz	CDMA / LTE	20	1	20	3.4	120	114	1/2 "	0.5	0	39.00	0.19%
3B	RFS	APXVTMM14-C-120	RRH	2500 MHz	CDMA / LTE	20	2	40	5.9	120	114	1/2 "	0.5	0	138.69	0.68%
Sector total Power Density Value:																1.44%

Site Composite MPE %	
Carrier	MPE %
Sprint	4.33%
AT&T	16.83%
Verizon Wireless	55.04%
MetroPCS	11.33%
T-Mobile	0.43%
Clearwire	0.76%
Nextel	4.71%
<b>Total Site MPE %</b>	<b>93.43%</b>

## Summary

All calculations performed for this analysis yielded results that were well within the allowable limits for general public Maximum Permissible Exposure (MPE) to radio frequency energy.

The anticipated Maximum Composite contributions from the Sprint facility are **4.33%** (**1.44% from sector 1, 1.44% from sector 2 and 1.44% from sector 3**) of the allowable FCC established general public limit considering all three sectors simultaneously sampled at the ground level.

The anticipated composite MPE value for this site assuming all carriers present is **93.43%** of the allowable FCC established general public limit sampled at 6 feet above ground level. This total composite site value is based upon MPE values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.



**Scott Heffernan**  
RF Engineering Director

**EBI Consulting**  
21 B Street  
Burlington, MA 01803





**AMERICAN TOWER®**  
CORPORATION

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## Structural Analysis Report

**Structure** : 142 ft Monopole  
**ATC Site Name** : WSPT - South, CT  
**ATC Site Number** : 302511  
**Engineering Number** : 58995222  
**Proposed Carrier** : Sprint Nextel  
**Carrier Site Name** : WSPT - South  
**Carrier Site Number** : CT03XC336  
**Site Location** : 20 Post Office Lane  
Westport, CT 06880-6226  
41.123444,-73.313100  
**County** : Fairfield  
**Date** : July 17, 2014  
**Max Usage** : 90%  
**Result** : Pass

William Maynard, E.I.



Jul 17 2014 2:11 PM



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## Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 142 ft monopole to reflect the change in loading by Sprint Nextel.

## Supporting Documents

<b>Tower Drawings</b>	EEI Job #3502, dated March 2, 1998
<b>Foundation Drawing</b>	Walker Job #W0105-988RE, dated August 2, 2001
<b>Geotechnical Report</b>	MB&A Project #011105, dated July 17, 2001
<b>Modifications</b>	EEI Project #11753, dated July 25, 2003 SpectraSite Drawing #CT-0047-M1, dated August 12, 2005 ATC Job #42046633, dated October 16, 2008 ATC Job #46844332/46993332, dated April 15, 2011

## Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

<b>Basic Wind Speed:</b>	110 mph (3-Second Gust)
<b>Basic Wind Speed w/ Ice:</b>	50 mph (3-Second Gust) w/ 3/4" radial ice concurrent
<b>Code:</b>	ANSI/TIA-222-G / 2003 IBC w/ 2005 CT Supplement & 2009 CT Amendment
<b>Structure Class:</b>	II
<b>Exposure Category:</b>	B
<b>Topographic Category:</b>	1

## Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at [Engineering@americantower.com](mailto:Engineering@americantower.com). Please include the American Tower site name, site number, and engineering number in the subject line for any questions.



**Existing and Reserved Equipment**

Elevation <sup>1</sup> (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
136.0	140.0	3	Kathrein 742-218 / AP20-1940/0	Flush	(6) 1 5/8" Coax (1) 3/8" Coax	Metro PCS
	136.0	3	Generic RCU			
131.0	131.0	6	Powerwave LGP219nn	Platform w/ Handrails	(12) 1 1/4" Coax (2) 0.65" 8 AWG 2C (1) 0.28" RG-6 (1) 3" Conduit	AT&T Mobility
		6	Powerwave LGP21401			
		1	Raycap DC6-48-60-18-8F			
		6	Ericsson RRUS 11 (Band 4)			
		6	Powerwave 7770			
		3	Powerwave P65-16-XLH-RR			
120.0	120.0	2	DragonWave Horizon Compact	Platform w/ Handrails	(6) 5/16" Coax (3) 1 1/4" Hybriflex Cab (2) 1/2" Coax (1) 2" Conduit	Clearwire
		3	NextNet BTS-2500			
		3	Argus LLPX310R			
		2	DragonWave A-ANT-18G-2-C			Sprint Nextel
		3	Alcatel-Lucent 800MHz 2X50W RRH w/ Filter			
		3	Alcatel-Lucent 1900MHz 4x45 RRH			
110.0	110.0	9	48" x 12" Panel	Platform w/ Handrails	(12) 1 5/8" Coax	
		3	72" x 12" Panel			
100.0	100.0	6	RFS FD9R6004/1C-3L	Platform w/ Handrails	(12) 1 5/8" Coax (1) 1 5/8" Hybriflex	Verizon
		1	GPS			
		3	Alcatel-Lucent RRH2x40-AWS			
		3	Ryma MGD3-800TX			
		3	Antel BXA-171063/12CF_2FP			
		1	RFS DB-T1-6Z-8AB-0Z			
		3	Antel BXA-70080/6CF			
		3	Allgon P65-16-XL-2			
90.0	90.0	4	RFS ATMAA1412D-1A20	Platform w/ Handrails	(14) 1 5/8" Coax (1) 1 1/4" Fiber	T-Mobile
		4	Ericsson AIR 21, 1.3M, B2A B4P			
		3	Ericsson AIR 21, 1.3M, B4A B2P			
80.0	80.0	2	Diamond X50A	Stand-Offs	(2) 1/2" Coax	Enertrac
70.0	70.0	1	PCTEL GPS-TMG-HR-26N	Stand-Off	(1) 1/2" Coax	Sprint Nextel

**Equipment to be Removed**

Elevation <sup>1</sup> (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
120.0	120.0	6	Decibel DB980H80E-M	-	(6) 1 5/8" Coax	Sprint Nextel



**Proposed Equipment**

Elevation <sup>1</sup> (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
120.0	120.0	3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield	Platform w/ Handrails	(1) 1 1/4" Hybriflex	Sprint Nextel
		3	RFS APXV9TM14-ALU-I20			

<sup>1</sup>Mount elevation is defined as height above bottom of steel structure to the bottom of mount, RAD elevation is defined as center of antenna above ground level (AGL).

Install proposed coax inside the pole shaft.

**Structure Usages**

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	61%	Pass
Shaft	90%	Pass
Base Plate	49%	Pass
Reinforcement	78%	Pass

**Foundations**

Reaction Component	Analysis Reactions
Moment (Kips-Ft)	3,748.4
Axial (Kips)	50.3
Shear (Kips)	40.8

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

**Deflection and Sway\***

Antenna Elevation (ft)	Deflection (ft)	Sway (Rotation) (°)
120.0	1.218	1.230

\*Deflection and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-G



## Standard Conditions

All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

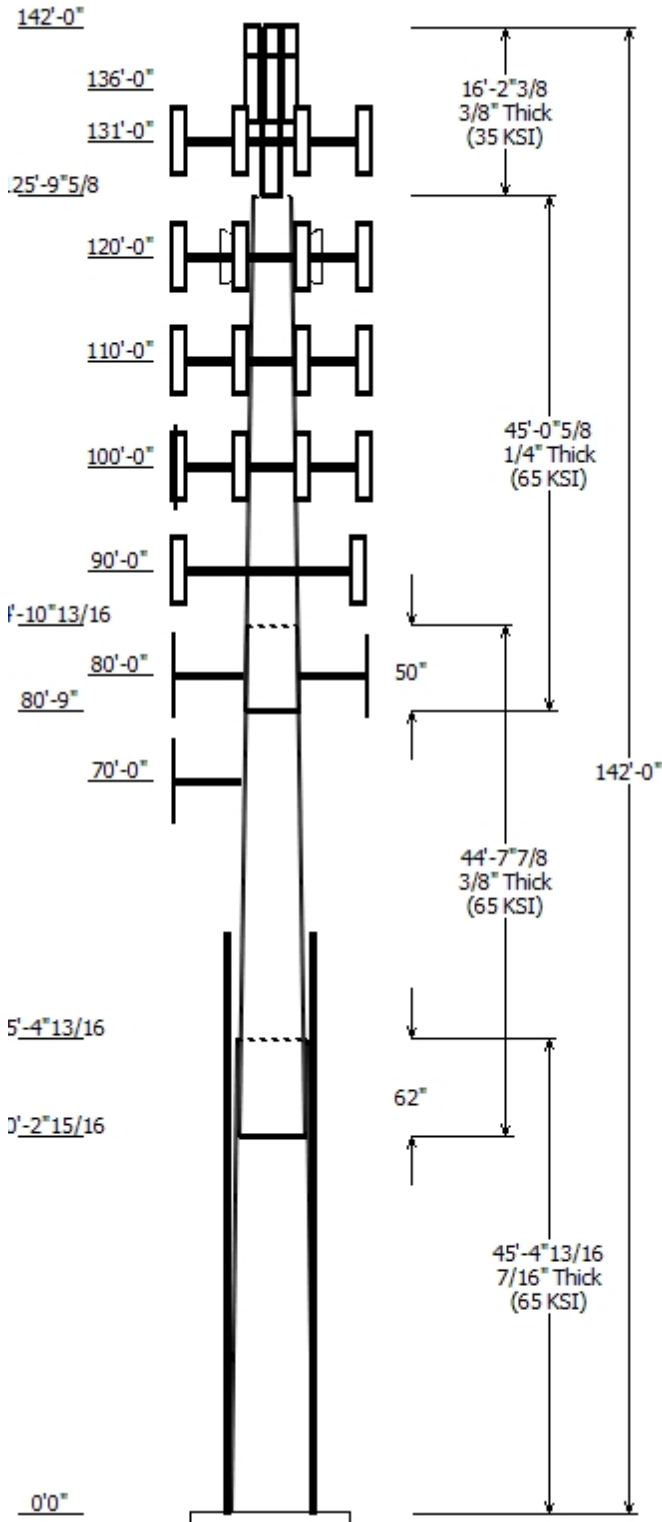
- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to ATC Tower Services, Inc. and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and that their capacity has not significantly changed from the "as new" condition.

Unless explicitly agreed by both the client and American Tower Corporation, all services will be performed in accordance with the current revision of ANSI/TIA -222. The design basic wind speed will be determined based on the minimum basic wind speed as prescribed in ANSI/TIA-222. Although every effort is taken to ensure that the loading considered is adequate to meet the requirements of all applicable regulatory entities, we can provide no assurance to meet any other local and state codes or requirements. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement.

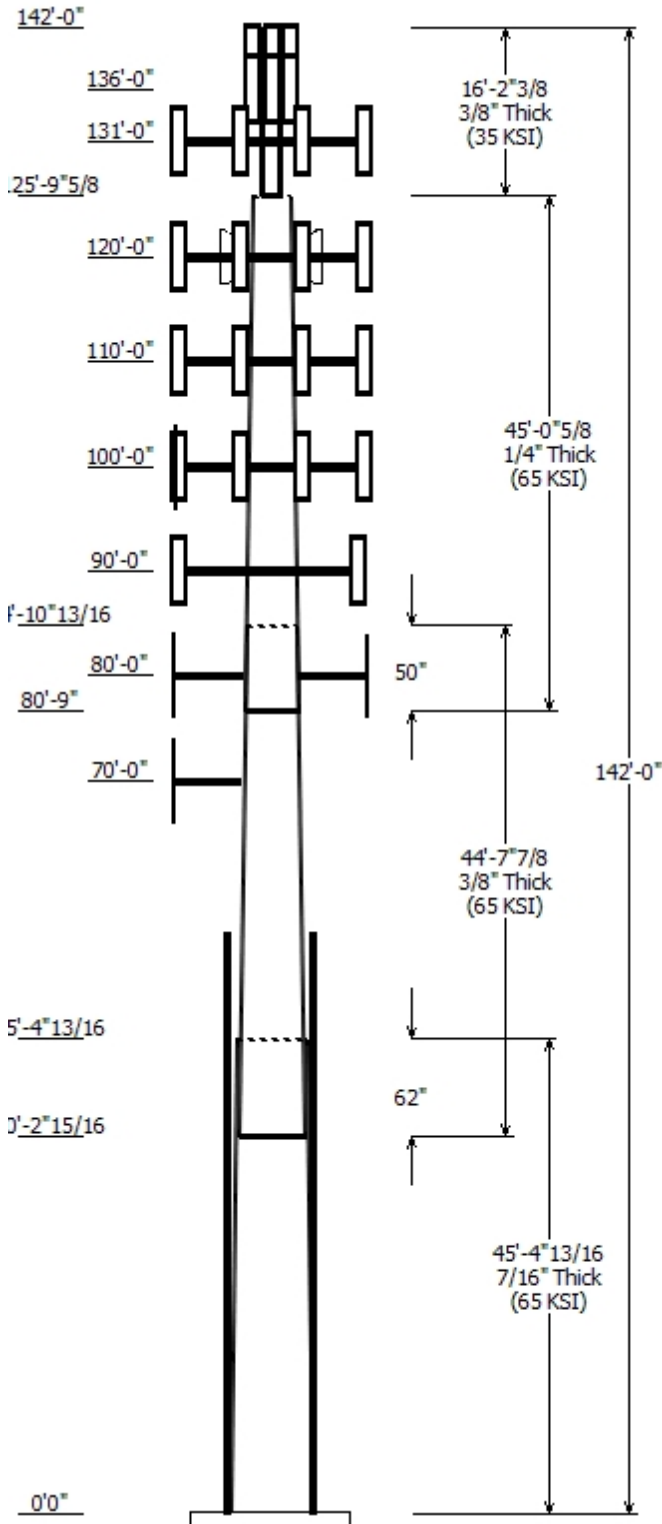
All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Tower Services, Inc. is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

Job Information	
Pole :	302511
Code :	ANSI/TIA-222 Rev G
Description :	142 ft EEI Monopole
Client :	Sprint Nextel
Struct Class :	II
Location :	WSPT - South, CT
Shape :	12 Sides
Exposure :	B
Height :	142.00 (ft)
Topo :	1
Base Elev (ft):	0.00
Taper:	0.21263(in/ft)



Sections Properties								
Shaft Section	Length (ft)	Diameter (in)		Thick (in)	Joint Type	Overlap		Steel Grade (ksi)
		Top	Bottom			Length (in)	Taper (in/ft)	
1	45.400	35.34	45.00	0.438		0.000	0.212638	65
2	44.656	27.69	37.19	0.375	Slip Joint	61.875	0.212638	65
3	45.052	19.50	29.08	0.250	Slip Joint	49.813	0.212638	65
4	16.200	10.75	10.75	0.375	Butt Joint	0.000	0.000000	35

Discrete Appurtenance				
Attach Elev (ft)	Force Elev (ft)	Qty	Description	
136.000	136.000	3	Generic RCU	
136.000	140.000	3	Kathrein 742-218 / AP20-1940/0	
131.000	131.000	1	Raycap DC6-48-60-18-8F	
131.000	131.000	6	Ericsson RRUS 11 (Band 4)	
131.000	131.000	3	Powerwave P65-16-XLH-RR	
131.000	131.000	6	Powerwave LGP219nn	
131.000	131.000	6	Powerwave LGP21401	
131.000	131.000	6	Powerwave 7770	
131.000	131.000	1	Flat Platform w/ Handrails	
120.000	120.000	3	RFS APXV9TM14-ALU-I20	
120.000	120.000	3	Alcatel-Lucent TD-RRH8x20-25	
120.000	120.000	3	Alcatel-Lucent 800 MHz 2X50W	
120.000	120.000	3	Alcatel-Lucent 1900 MHz 4x45	
120.000	120.000	3	RFS APXVSP18-C-A20	
120.000	120.000	3	Argus LLPX310R	
120.000	120.000	2	DragonWave Horizon Compact	
120.000	120.000	2	DragonWave A-ANT-18G-2-C	
120.000	120.000	3	NextNet BTS-2500	
120.000	120.000	1	Flat Platform w/ Handrails	
110.000	110.000	9	48" x 12" Panel	
110.000	110.000	3	72" x 12" Panel	
110.000	110.000	1	Flat Platform w/ Handrails	
100.000	100.000	1	GPS	
100.000	100.000	3	Antel BXA-171063/12CF_2FP	
100.000	100.000	3	Antel BXA-70080/6CF	
100.000	100.000	1	RFS DB-T1-6Z-8AB-0Z	
100.000	100.000	3	Alcatel-Lucent RRH2x40-AWS	
100.000	100.000	6	RFS FD9R6004/1C-3L	
100.000	100.000	3	Allgon P65-16-XL-2	
100.000	100.000	3	Rym sa MGD3-800TX	
100.000	100.000	1	Flat Platform w/ Handrails	
90.000	90.000	3	Ericsson AIR 21, 1.3M, B4A B2P	
90.000	90.000	4	Ericsson AIR 21, 1.3M, B2A B4P	
90.000	90.000	4	RFS ATMAA1412D-1A20	
90.000	90.000	1	Flat Platform w/ Handrails	
80.000	80.000	2	Stand-Offs	
80.000	80.000	2	Diamond X50A	
70.000	70.000	1	Stand-Off	
70.000	70.000	1	PCTEL GPS-TMG-HR-26N	



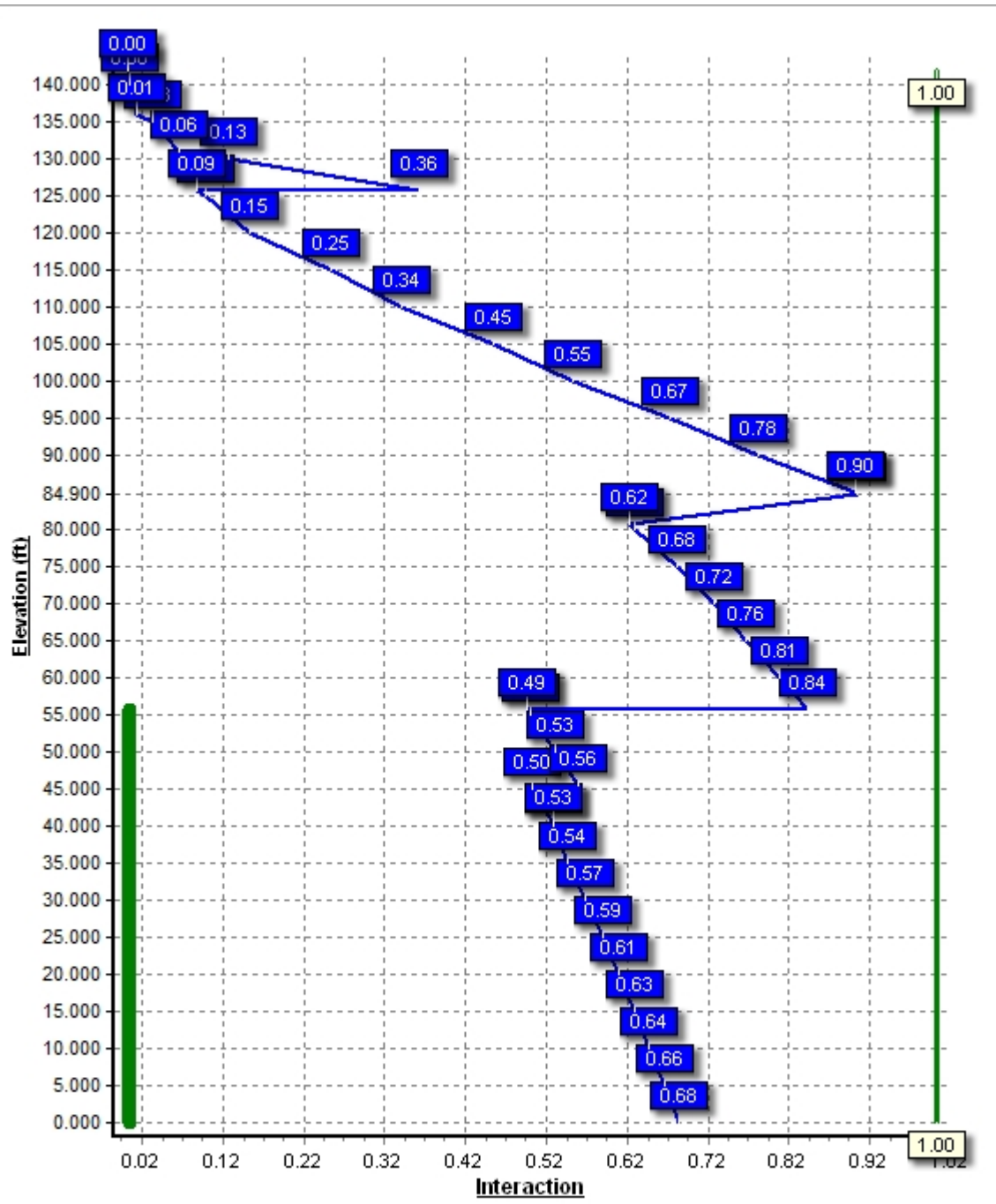
Linear Appurtenance			
Elev (ft)		Description	Exposed To Wind
From	To		
0.000	63.000	DYWIDAG	Yes
0.000	70.000	1/2" Coax	No
0.000	80.000	1/2" Coax	Yes
0.000	90.000	1 1/4" Fiber	Yes
0.000	90.000	1 5/8" Coax	Yes
0.000	100.0	1 5/8" Coax	No
0.000	100.0	1 5/8" Hybriflex	No
0.000	110.0	1 5/8" Coax	No
0.000	120.0	1 1/4" Hybriflex	No
0.000	120.0	1 1/4" Hybriflex	No
0.000	120.0	1/2" Coax	Yes
0.000	120.0	2" Conduit	Yes
0.000	120.0	5/16" Coax	Yes
0.000	131.0	0.28" RG-6	No
0.000	131.0	0.65" 8 AWG 2C	No
0.000	131.0	1 1/4" Coax	No
0.000	131.0	3" Conduit	No
0.000	136.0	1 5/8" Coax	Yes
0.000	136.0	3/8" Coax	Yes

Load Cases	
1.2D + 1.6W	110.00 mph with No Ice
0.9D + 1.6W	110.00 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice
1.0D + 1.0W	60.00 mph Serviceability

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	3748.35	40.83	50.34
0.9D + 1.6W	3623.95	38.87	38.67
1.2D + 1.0Di + 1.0Wi	673.48	6.79	84.61
1.0D + 1.0W	679.60	7.25	42.64

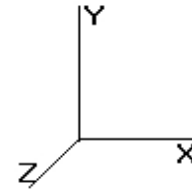
Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	120.00	14.624	1.228





Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



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**Shaft Section Properties**

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Slip		Weight (lb)	Bottom						Top							
				Joint Type	Joint Len (in)		Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Taper (in/ft)	
1-12	45.400	0.4375	65		0.00	8,648	45.00	0.00	62.78	15912.1	25.42	102.86	35.34	45.40	49.18	7649.3	19.50	80.79	0.212638	
2-12	44.656	0.3750	65	Slip	61.88	5,884	37.19	40.24	44.46	7692.0	24.43	99.18	27.69	84.90	32.99	3143.5	17.65	73.86	0.212638	
3-12	45.052	0.2500	65	Slip	49.81	2,967	29.08	80.75	23.21	2462.1	29.02	116.32	19.50	125.80	15.50	732.9	18.76	78.00	0.212638	
4-R	16.200	0.3750	35	Butt	0.00	674	10.75	125.80	12.22	164.6	0.00	28.67	10.75	142.00	12.22	164.6	0.00	28.67	0.000000	
Shaft Weight						18,173														

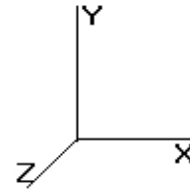
**Discrete Appurtenance Properties**

Attach Elev (ft)	Description	Qty	No Ice			Ice			Distance From Face (ft)	Vert Ecc (ft)
			Weight (lb)	EPAA (sf)	Orientation Factor	Weight (lb)	EPAA (sf)	Orientation Factor		
136.00	Generic RCU	3	1.00	0.160	0.50	11.02	0.359	0.50	0.000	0.000
136.00	Kathrein 742-218 / AP20-	3	22.50	3.850	0.73	110.55	4.763	0.73	0.000	4.000
131.00	Ericsson RRUS 11 (Band 4)	6	44.00	2.570	0.50	124.02	3.205	0.50	0.000	0.000
131.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,404.92	63.132	1.00	0.000	0.000
131.00	Powerwave 7770	6	35.00	5.510	0.65	167.86	6.545	0.65	0.000	0.000
131.00	Powerwave LGP21401	6	14.10	1.100	0.50	47.12	1.557	0.50	0.000	0.000
131.00	Powerwave LGP219nn	6	5.50	0.230	0.50	17.84	0.425	0.50	0.000	0.000
131.00	Powerwave P65-16-XLH-RR	3	53.00	8.130	0.67	241.57	9.411	0.67	0.000	0.000
131.00	Raycap DC6-48-60-18-8F	1	31.80	1.280	1.00	123.22	2.843	1.00	0.000	0.000
120.00	Alcatel-Lucent 1900 MHz	3	60.00	2.320	0.50	152.61	2.977	0.50	0.000	0.000
120.00	Alcatel-Lucent 800 MHz	3	64.00	2.060	0.50	152.36	2.641	0.50	0.000	0.000
120.00	Alcatel-Lucent TD-RRH8x20-	3	70.00	4.050	0.50	159.55	5.679	0.50	0.000	0.000
120.00	Argus LLPX310R	3	28.60	4.290	0.73	133.51	5.168	0.73	0.000	0.000
120.00	DragonWave A-ANT-18G-2-C	2	27.10	4.690	0.90	122.73	5.939	0.90	0.000	0.000
120.00	DragonWave Horizon	2	10.60	0.430	0.50	39.93	0.654	0.50	0.000	0.000
120.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,392.66	62.951	1.00	0.000	0.000
120.00	NextNet BTS-2500	3	35.00	1.820	0.50	91.20	2.384	0.50	0.000	0.000
120.00	RFS APXV9TM14-ALU-I20	3	55.10	6.340	0.78	210.92	7.066	0.78	0.000	0.000
120.00	RFS APXVSPP18-C-A20	3	57.00	8.020	0.69	251.45	9.284	0.69	0.000	0.000
110.00	48" x 12" Panel	9	30.00	5.070	0.66	158.39	6.020	0.66	0.000	0.000
110.00	72" x 12" Panel	3	45.00	8.130	0.67	229.67	9.387	0.67	0.000	0.000
110.00	Flat Platform w/ Handrails	1	2000.00	42.400	0.90	3,380.59	62.773	0.90	0.000	0.000
100.00	Alcatel-Lucent RRH2x40-AWS	3	44.00	2.160	0.50	113.88	2.776	0.50	0.000	0.000
100.00	Allgon P65-16-XL-2	3	33.00	8.130	0.75	206.09	9.374	0.75	0.000	0.000
100.00	Antel BXA-171063/12CF_2FP	3	15.00	4.790	0.72	129.08	5.936	0.72	0.000	0.000
100.00	Antel BXA-70080/6CF	3	18.00	5.840	0.88	161.83	7.033	0.88	0.000	0.000
100.00	Flat Platform w/ Handrails	1	2000.00	42.400	0.90	3,367.50	62.580	0.90	0.000	0.000
100.00	GPS	1	10.00	1.000	0.50	46.47	0.922	0.50	0.000	0.000
100.00	RFS DB-T1-6Z-8AB-0Z	1	44.00	4.800	1.00	175.46	5.637	1.00	0.000	0.000
100.00	RFS FD9R6004/1C-3L	6	3.10	0.370	0.50	15.44	0.569	0.50	0.000	0.000
100.00	Ryma MGD3-800TX	3	15.40	3.340	0.82	98.01	4.237	0.82	0.000	0.000
90.00	Ericsson AIR 21, 1.3M, B2A	4	83.00	6.050	0.71	242.07	7.090	0.71	0.000	0.000
90.00	Ericsson AIR 21, 1.3M, B4A	3	81.50	6.090	0.70	240.53	7.135	0.70	0.000	0.000
90.00	Flat Platform w/ Handrails	1	2000.00	42.400	0.90	3,353.16	62.368	0.90	0.000	0.000
90.00	RFS ATMAA1412D-1A20	4	13.00	1.000	0.50	45.81	1.408	0.50	0.000	0.000
80.00	Diamond X50A	2	2.30	1.120	1.00	57.21	2.431	1.00	0.000	0.000
80.00	Stand-Offs	2	50.00	3.000	1.00	72.94	4.475	1.00	0.000	0.000
70.00	PCTEL GPS-TMG-HR-26N	1	0.60	0.090	1.00	9.99	0.257	1.00	0.000	0.000
70.00	Stand-Off	1	30.00	1.000	1.00	43.58	1.485	1.00	0.000	0.000
Totals		116	13654.90			30,775.42			Number of Loadings : 39	

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)

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### Linear Appurtenance Properties

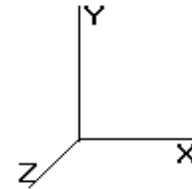
Elev From (ft)	Elev To (ft)	Description	Exposed Width (in)	Exposed To Wind
0.00	136.00	(6) 1 5/8" Coax	1.98	Y
0.00	136.00	(1) 3/8" Coax	0.00	Y
0.00	131.00	(1) 0.28" RG-6	0.00	N
0.00	131.00	(2) 0.65" 8 AWG 2C	0.00	N
0.00	131.00	(12) 1 1/4" Coax	0.00	N
0.00	131.00	(1) 3" Conduit	0.00	N
0.00	120.00	(1) 1 1/4" Hybriflex	0.00	N
0.00	120.00	(3) 1 1/4" Hybriflex Cab	0.00	N
0.00	120.00	(2) 1/2" Coax	0.00	Y
0.00	120.00	(1) 2" Conduit	0.00	Y
0.00	120.00	(6) 5/16" Coax	0.00	Y
0.00	110.00	(12) 1 5/8" Coax	0.00	N
0.00	100.00	(12) 1 5/8" Coax	0.00	N
0.00	100.00	(1) 1 5/8" Hybriflex	0.00	N
0.00	90.00	(1) 1 1/4" Fiber	0.00	Y
0.00	90.00	(14) 1 5/8" Coax	3.96	Y
0.00	80.00	(2) 1/2" Coax	0.00	Y
0.00	70.00	(1) 1/2" Coax	0.00	N
0.00	63.00	(4) DYWIDAG	1.46	Y

### Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	— Intermediate Connections —			Connectors	Continuation?
						Description	Spacing (in)	Len (in)		
0.00	55.68	4	SOL #20 All Thread	80	2.19	6" Angle Bracket	30.0	3.31	5/8" A36 U-Bolt	Yes

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



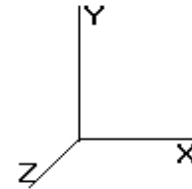
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**Segment Properties** (Max Len : 5 ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	S (in3)	Weight (lb)	Additional Reinforcing		
											Area (in^2)	Ix (in^4)	Weight (lb)
0.00		0.4375	45.000	62.777	15,912.1	25.42	102.86	77.0	683.1	0.0	19.64	6,615	0.0
5.00		0.4375	43.937	61.280	14,800.2	24.77	100.43	77.7	650.7	1,055.3	19.64	6,347	334.0
10.00		0.4375	42.874	59.782	13,741.3	24.11	98.00	78.4	619.2	1,029.9	19.64	6,084	334.0
15.00		0.4375	41.810	58.284	12,734.1	23.46	95.57	79.1	588.4	1,004.4	19.64	5,827	334.0
20.00		0.4375	40.747	56.786	11,777.4	22.81	93.14	79.8	558.4	978.9	19.64	5,576	334.0
25.00		0.4375	39.684	55.289	10,869.9	22.16	90.71	80.5	529.2	953.4	19.64	5,330	334.0
30.00		0.4375	38.621	53.791	10,010.2	21.51	88.28	81.3	500.7	927.9	19.64	5,090	334.0
35.00		0.4375	37.558	52.293	9,197.1	20.86	85.85	81.9	473.1	902.4	19.64	4,855	334.0
40.00		0.4375	36.494	50.795	8,429.2	20.21	83.42	81.9	446.2	877.0	19.64	4,626	334.0
40.24	Bot - Section 2	0.4375	36.443	50.722	8,392.9	20.18	83.30	81.9	444.9	42.1	19.64	4,615	16.3
45.00		0.4375	35.431	49.297	7,705.4	19.56	80.99	81.9	420.1	1,519.0	19.64	4,559	317.7
45.40	Top - Section 1	0.3750	36.096	43.133	7,025.1	23.65	96.26	78.9	376.0	125.8	19.64	4,542	26.7
50.00		0.3750	35.118	41.952	6,463.7	22.95	93.65	79.7	355.6	665.9	19.64	4,337	307.3
55.00		0.3750	34.055	40.668	5,888.2	22.19	90.81	80.5	334.0	702.9	19.64	4,121	334.0
55.68	Reinf. Top	0.3750	33.911	40.495	5,813.1	22.09	90.43	80.6	331.2	93.5	19.64	4,092	45.2
60.00		0.3750	32.992	39.385	5,348.0	21.43	87.98	81.3	313.2	587.5			
65.00		0.3750	31.929	38.101	4,841.9	20.67	85.14	81.9	293.0	659.2			
70.00		0.3750	30.865	36.817	4,368.8	19.91	82.31	81.9	273.4	637.3			
75.00		0.3750	29.802	35.533	3,927.5	19.15	79.47	81.9	254.6	615.5			
80.00		0.3750	28.739	34.249	3,517.0	18.39	76.64	81.9	236.4	593.6			
80.75	Bot - Section 3	0.3750	28.580	34.057	3,458.1	18.28	76.21	81.9	233.8	87.0			
84.90	Top - Section 2	0.2500	28.197	22.497	2,242.8	28.08	112.79	74.1	153.7	796.3			
85.00		0.2500	28.176	22.480	2,237.7	28.06	112.70	74.1	153.4	7.7			
90.00		0.2500	27.113	21.624	1,991.7	26.92	108.45	75.4	141.9	375.2			
95.00		0.2500	26.049	20.768	1,764.4	25.78	104.20	76.6	130.9	360.6			
100.0		0.2500	24.986	19.913	1,555.2	24.64	99.94	77.8	120.2	346.1			
105.0		0.2500	23.923	19.057	1,363.1	23.50	95.69	79.1	110.1	331.5			
110.0		0.2500	22.860	18.201	1,187.6	22.36	91.44	80.3	100.4	316.9			
115.0		0.2500	21.797	17.345	1,027.8	21.22	87.19	81.6	91.1	302.4			
120.0		0.2500	20.733	16.489	883.1	20.08	82.93	81.9	82.3	287.8			
125.0		0.2500	19.670	15.633	752.6	18.94	78.68	81.9	73.9	273.3			
125.8	Top - Section 3	0.2500	19.500	15.496	732.9	18.76	78.00	81.9	72.6	42.4			
125.8	Bot - Section 4	0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6				
130.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	174.7			
131.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	41.6			
135.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	166.4			
136.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	41.6			
140.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	166.4			
142.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	83.2			
										18,172.5			
											3,719.2		

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
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**Load Case:** 1.2D + 1.6W                      110.00 mph with No Ice                      25 Iterations

Gust Response Factor : 1.10                      Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

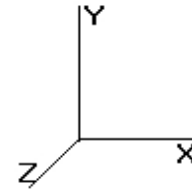
**Shaft Segment Forces (Factored)**

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	20.599	22.65	357.29	1.000	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	20.599	22.65	348.85	1.182	* 0.000	5.00	19.182	22.68	822.2	0.0	1,600.4
10.00		1.00	0.70	20.599	22.65	340.41	1.194	* 0.000	5.00	18.723	22.36	810.5	0.0	1,569.8
15.00		1.00	0.70	20.599	22.65	331.97	1.206	* 0.000	5.00	18.265	22.04	798.9	0.0	1,539.3
20.00		1.00	0.70	20.599	22.65	323.53	1.219	* 0.000	5.00	17.806	21.71	787.2	0.0	1,508.7
25.00		1.00	0.70	20.599	22.65	315.08	1.233	* 0.000	5.00	17.348	21.39	775.6	0.0	1,478.1
30.00		1.00	0.70	20.616	22.67	306.77	1.248	* 0.000	5.00	16.889	21.07	764.6	0.0	1,447.5
35.00		1.00	0.73	21.545	23.69	304.97	1.263	* 0.000	5.00	16.430	20.75	786.9	0.0	1,416.9
40.00		1.00	0.76	22.383	24.62	302.04	1.279	* 0.000	5.00	15.972	20.43	804.8	0.0	1,386.4
40.24	Bot - Section 2	1.00	0.76	22.421	24.66	301.88	1.288	* 0.000	0.24	0.767	0.99	39.0	0.0	66.8
45.00		1.00	0.78	23.149	25.46	298.22	1.297	* 0.000	4.76	15.054	19.52	795.3	0.0	2,140.6
45.40	Top - Section 1	1.00	0.78	23.207	25.52	297.88	1.200	* 0.000	0.40	1.247	1.50	61.1	0.0	177.6
50.00		1.00	0.81	23.856	26.24	300.07	1.200	* 0.000	4.60	14.131	16.96	712.0	0.0	1,106.4
55.00		1.00	0.83	24.515	26.96	294.97	1.200	* 0.000	5.00	14.919	17.90	772.5	0.0	1,177.4
55.68	Reinf. Top	1.00	0.83	24.600	27.06	294.24	1.200	* 0.000	0.68	1.985	2.38	103.1	0.0	157.4
60.00		1.00	0.85	25.132	27.64	289.34	1.200	* 0.000	4.32	12.476	14.97	662.2	0.0	705.0
65.00		1.00	0.87	25.713	28.28	283.23	1.200	* 0.000	5.00	14.002	16.80	760.4	0.0	791.0
70.00	Appertunance(s)	1.00	0.89	26.263	28.89	276.71	1.248	* 0.000	5.00	13.544	16.91	781.4	0.0	764.8
75.00		1.00	0.91	26.786	29.46	269.83	1.267	* 0.000	5.00	13.085	16.58	781.9	0.0	738.6
80.00	Appertunance(s)	1.00	0.92	27.285	30.01	262.61	1.288	* 0.000	5.00	12.626	16.26	781.0	0.0	712.4
80.75	Bot - Section 3	1.00	0.93	27.357	30.09	261.51	1.200	* 0.000	0.75	1.851	2.22	106.9	0.0	104.4
84.90	Top - Section 2	1.00	0.94	27.752	30.52	255.25	1.200	* 0.000	4.15	10.256	12.31	601.1	0.0	955.6
85.00		1.00	0.94	27.761	30.53	259.71	1.200	* 0.000	0.10	0.244	0.29	14.3	0.0	9.2
90.00	Appertunance(s)	1.00	0.95	28.219	31.04	251.95	1.200	* 0.000	5.00	11.925	14.31	710.7	0.0	450.2
95.00		1.00	0.97	28.658	31.52	243.95	1.000	0.000	5.00	11.466	11.47	578.3	0.0	432.8
100.00	Appertunance(s)	1.00	0.98	29.081	31.98	235.72	1.000	0.000	5.00	11.007	11.01	563.4	0.0	415.3
105.00		1.00	1.00	29.489	32.43	227.26	1.000	0.000	5.00	10.549	10.55	547.5	0.0	397.8
110.00	Appertunance(s)	1.00	1.01	29.884	32.87	218.61	1.000	0.000	5.00	10.090	10.09	530.7	0.0	380.3
115.00		1.00	1.02	30.266	33.29	209.77	1.000	0.000	5.00	9.632	9.63	513.1	0.0	362.9
120.00	Appertunance(s)	1.00	1.04	30.636	33.69	200.76	1.000	0.000	5.00	9.173	9.17	494.6	0.0	345.4
125.00		1.00	1.05	30.995	34.09	191.58	1.000	0.000	5.00	8.714	8.71	475.4	0.0	327.9
125.80	Top - Section 3	1.00	1.05	31.052	34.15	190.09	1.000	0.000	0.80	1.353	1.35	73.9	0.0	50.9
130.00		1.00	1.06	31.345	34.47	101.70	0.752	* 0.000	4.20	3.762	2.83	156.0	0.0	209.6
131.00	Appertunance(s)	1.00	1.06	31.413	34.55	101.81	0.752	* 0.000	1.00	0.896	0.67	37.2	0.0	49.9
135.00		1.00	1.07	31.684	34.85	102.25	0.752	* 0.000	4.00	3.583	2.69	150.2	0.0	199.6
136.00	Appertunance(s)	1.00	1.07	31.751	34.92	102.35	0.752	* 0.000	1.00	0.896	0.67	37.6	0.0	49.9
140.00		1.00	1.08	32.015	35.21	102.78	0.600	0.000	4.00	3.583	2.15	121.1	0.0	199.6
142.00		1.00	1.09	32.145	35.36	102.99	0.600	0.000	2.00	1.792	1.08	60.8	0.0	99.8
<b>Totals:</b>									142.00			18,373.4	0.0	25,526.3

\* = Cf Adjusted By Linear Load Ra Effect

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



**Load Case:** 1.2D + 1.6W                      110.00 mph with No Ice                      25 Iterations

Gust Response Factor : 1.10                      Wind Importance Factor : 1.00

Dead Load Factor : 1.20

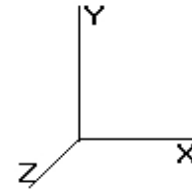
Wind Load Factor : 1.60

**Discrete Appurtenance Segment Forces (Factored)**

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orientation Factor	Ka	Total EPAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
70.00	PCTEL GPS-TMG-HR-	1	26.263	28.890	1.00	1.00	0.09	0.000	0.000	4.16	0.00	0.00	0.72
70.00	Stand-Off	1	26.263	28.890	1.00	1.00	1.00	0.000	0.000	46.22	0.00	0.00	36.00
80.00	Diamond X50A	2	27.285	30.013	1.00	1.00	2.24	0.000	0.000	107.57	0.00	0.00	5.52
80.00	Stand-Offs	2	27.285	30.013	1.00	1.00	6.00	0.000	0.000	288.13	0.00	0.00	120.00
90.00	Flat Platform w/ Han	1	28.219	31.040	0.90	1.00	38.16	0.000	0.000	1,895.20	0.00	0.00	2,400.00
90.00	RFS ATMAA1412D-	4	28.219	31.040	0.50	0.75	1.50	0.000	0.000	74.50	0.00	0.00	62.40
90.00	Ericsson AIR 21, 1.3	4	28.219	31.040	0.71	0.75	12.89	0.000	0.000	640.00	0.00	0.00	398.40
90.00	Ericsson AIR 21, 1.3	3	28.219	31.040	0.70	0.75	9.59	0.000	0.000	476.37	0.00	0.00	293.40
100.0	Flat Platform w/ Han	1	29.081	31.989	0.90	1.00	38.16	0.000	0.000	1,953.11	0.00	0.00	2,400.00
100.0	Rymosa MGD3-800TX	3	29.081	31.989	0.82	0.75	6.16	0.000	0.000	315.40	0.00	0.00	55.44
100.0	Allgon P65-16-XL-2	3	29.081	31.989	0.75	0.75	13.72	0.000	0.000	702.19	0.00	0.00	118.80
100.0	RFS FD9R6004/1C-3L	6	29.081	31.989	0.50	0.75	0.83	0.000	0.000	42.61	0.00	0.00	22.32
100.0	Alcatel-Lucent RRH2x	3	29.081	31.989	0.50	0.75	2.43	0.000	0.000	124.37	0.00	0.00	158.40
100.0	RFS DB-T1-6Z-8AB-0Z	1	29.081	31.989	1.00	0.75	3.60	0.000	0.000	184.26	0.00	0.00	52.80
100.0	Antel BXA-70080/6CF	3	29.081	31.989	0.88	0.75	11.56	0.000	0.000	591.83	0.00	0.00	64.80
100.0	Antel BXA-171063/12C	3	29.081	31.989	0.72	0.75	7.76	0.000	0.000	397.16	0.00	0.00	54.00
100.0	GPS	1	29.081	31.989	0.50	0.75	0.38	0.000	0.000	19.19	0.00	0.00	12.00
110.0	Flat Platform w/ Han	1	29.884	32.872	0.90	1.00	38.16	0.000	0.000	2,007.03	0.00	0.00	2,400.00
110.0	72" x 12" Panel	3	29.884	32.872	0.67	0.75	12.26	0.000	0.000	644.61	0.00	0.00	162.00
110.0	48" x 12" Panel	9	29.884	32.872	0.66	0.75	22.59	0.000	0.000	1,187.96	0.00	0.00	324.00
120.0	Flat Platform w/ Han	1	30.636	33.699	1.00	1.00	42.40	0.000	0.000	2,286.17	0.00	0.00	2,400.00
120.0	NextNet BTS-2500	3	30.636	33.699	0.50	0.75	2.05	0.000	0.000	110.40	0.00	0.00	126.00
120.0	DragonWave A-ANT-	2	30.636	33.699	0.90	0.75	6.33	0.000	0.000	341.39	0.00	0.00	65.04
120.0	DragonWave Horizon	2	30.636	33.699	0.50	0.75	0.32	0.000	0.000	17.39	0.00	0.00	25.44
120.0	Argus LLPX310R	3	30.636	33.699	0.73	0.75	7.05	0.000	0.000	379.93	0.00	0.00	102.96
120.0	RFS APXVSP18-C-	3	30.636	33.699	0.69	0.75	12.45	0.000	0.000	671.35	0.00	0.00	205.20
120.0	Alcatel-Lucent 1900	3	30.636	33.699	0.50	0.75	2.61	0.000	0.000	140.73	0.00	0.00	216.00
120.0	Alcatel-Lucent 800 M	3	30.636	33.699	0.50	0.75	2.32	0.000	0.000	124.96	0.00	0.00	230.40
120.0	Alcatel-Lucent TD-RR	3	30.636	33.699	0.50	0.75	4.56	0.000	0.000	245.67	0.00	0.00	252.00
120.0	RFS APXV9TM14-ALU-	3	30.636	33.699	0.78	0.75	11.13	0.000	0.000	599.94	0.00	0.00	198.36
131.0	Flat Platform w/ Han	1	31.413	34.555	1.00	1.00	42.40	0.000	0.000	2,344.18	0.00	0.00	2,400.00
131.0	Powerwave 7770	6	31.413	34.555	0.65	0.75	16.12	0.000	0.000	891.05	0.00	0.00	252.00
131.0	Powerwave LGP21401	6	31.413	34.555	0.50	0.75	2.48	0.000	0.000	136.84	0.00	0.00	101.52
131.0	Powerwave LGP219nn	6	31.413	34.555	0.50	0.75	0.52	0.000	0.000	28.61	0.00	0.00	39.60
131.0	Powerwave P65-16-	3	31.413	34.555	0.67	0.75	12.26	0.000	0.000	677.60	0.00	0.00	190.80
131.0	Ericsson RRUS 11 (Ba	6	31.413	34.555	0.50	0.75	5.78	0.000	0.000	319.70	0.00	0.00	316.80
131.0	Raycap DC6-48-60-18-	1	31.413	34.555	1.00	0.75	0.96	0.000	0.000	53.08	0.00	0.00	38.16
136.0	Kathrein 742-218 / A	3	32.015	35.217	0.73	0.80	6.75	0.000	4.000	380.07	0.00	1,520.29	81.00
136.0	Generic RCU	3	31.751	34.926	0.50	0.80	0.19	0.000	0.000	10.73	0.00	0.00	3.60
										21,461.66			16,385.88

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



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**Load Case:** 1.2D + 1.6W      110.00 mph with No Ice      25 Iterations

Gust Response Factor : 1.10      Wind Importance Factor : 1.00

Dead Load Factor : 1.20

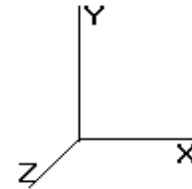
Wind Load Factor : 1.60

**Linear Appurtenance Segment Forces (Factored)**

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	FX (lb)	Dead Load (lb)
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.161	1.182	0.00	29.52
5.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	0.48
5.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	1.80
5.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	21.90
5.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	1.62
5.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	6.30
5.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.161	1.182	0.00	68.87
5.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	1.80
5.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.599	0.161	1.182	0.00	0.00
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.165	1.194	0.00	29.52
10.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	0.48
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	1.80
10.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	21.90
10.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	1.62
10.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	6.30
10.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.165	1.194	0.00	68.87
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	1.80
10.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.599	0.165	1.194	0.00	0.00
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.169	1.206	0.00	29.52
15.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	0.48
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	1.80
15.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	21.90
15.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	1.62
15.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	6.30
15.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.169	1.206	0.00	68.87
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	1.80
15.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.599	0.169	1.206	0.00	0.00
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.173	1.219	0.00	29.52
20.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	0.48
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	1.80
20.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	21.90
20.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	1.62
20.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	6.30
20.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.173	1.219	0.00	68.87
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	1.80
20.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.599	0.173	1.219	0.00	0.00
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.178	1.233	0.00	29.52
25.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	0.48
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	1.80
25.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	21.90
25.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	1.62
25.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	6.30
25.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.178	1.233	0.00	68.87
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	1.80
25.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.599	0.178	1.233	0.00	0.00
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.616	0.183	1.248	0.00	29.52
30.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	0.48
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	1.80
30.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	21.90
30.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	1.62
30.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	6.30

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



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**Load Case:** 1.2D + 1.6W      110.00 mph with No Ice      25 Iterations

Gust Response Factor : 1.10      Wind Importance Factor : 1.00

Dead Load Factor : 1.20

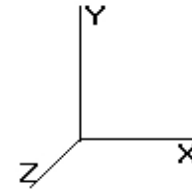
Wind Load Factor : 1.60

30.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.616	0.183	1.248	0.00	68.87
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	1.80
30.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.616	0.183	1.248	0.00	0.00
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	21.545	0.188	1.263	0.00	29.52
35.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	0.48
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	1.80
35.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	21.90
35.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	1.62
35.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	6.30
35.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	21.545	0.188	1.263	0.00	68.87
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	1.80
35.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	21.545	0.188	1.263	0.00	0.00
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	22.383	0.193	1.279	0.00	29.52
40.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	0.48
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	1.80
40.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	21.90
40.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	1.62
40.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	6.30
40.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	22.383	0.193	1.279	0.00	68.87
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	1.80
40.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	22.383	0.193	1.279	0.00	0.00
40.24	(6) 1 5/8" Coax	Yes	0.24	0.000	1.98	0.04	0.00	22.421	0.196	1.288	0.00	1.44
40.24	(1) 3/8" Coax	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.02
40.24	(2) 1/2" Coax	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.09
40.24	(1) 2" Conduit	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	1.07
40.24	(6) 5/16" Coax	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.08
40.24	(1) 1 1/4" Fiber	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.31
40.24	(14) 1 5/8" Coax	Yes	0.24	0.000	3.96	0.08	0.00	22.421	0.196	1.288	0.00	3.36
40.24	(2) 1/2" Coax	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.09
40.24	(4) DYWIDAG	Yes	0.24	0.000	1.46	0.03	0.00	22.421	0.196	1.288	0.00	0.00
45.00	(6) 1 5/8" Coax	Yes	4.76	0.000	1.98	0.78	0.00	23.149	0.199	1.297	0.00	28.08
45.00	(1) 3/8" Coax	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	0.46
45.00	(2) 1/2" Coax	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	1.71
45.00	(1) 2" Conduit	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	20.83
45.00	(6) 5/16" Coax	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	1.54
45.00	(1) 1 1/4" Fiber	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	5.99
45.00	(14) 1 5/8" Coax	Yes	4.76	0.000	3.96	1.57	0.00	23.149	0.199	1.297	0.00	65.52
45.00	(2) 1/2" Coax	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	1.71
45.00	(4) DYWIDAG	Yes	4.76	0.000	1.46	0.58	0.00	23.149	0.199	1.297	0.00	0.00
45.40	(6) 1 5/8" Coax	Yes	0.40	1.200	1.98	0.07	0.08	23.207	0.202	0.000	3.23	2.36
45.40	(1) 3/8" Coax	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	0.04
45.40	(2) 1/2" Coax	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	0.14
45.40	(1) 2" Conduit	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	1.75
45.40	(6) 5/16" Coax	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	0.13
45.40	(1) 1 1/4" Fiber	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	0.50
45.40	(14) 1 5/8" Coax	Yes	0.40	1.191	3.96	0.13	0.16	23.207	0.202	0.000	6.42	5.51
45.40	(2) 1/2" Coax	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	0.14
45.40	(4) DYWIDAG	Yes	0.40	1.200	1.46	0.05	0.06	23.207	0.202	0.000	2.38	0.00
50.00	(6) 1 5/8" Coax	Yes	4.60	1.200	1.98	0.76	0.91	23.856	0.201	0.000	38.24	27.16
50.00	(1) 3/8" Coax	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	0.44
50.00	(2) 1/2" Coax	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	1.66
50.00	(1) 2" Conduit	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	20.15
50.00	(6) 5/16" Coax	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	1.49
50.00	(1) 1 1/4" Fiber	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	5.80
50.00	(14) 1 5/8" Coax	Yes	4.60	1.175	3.96	1.52	1.78	23.856	0.201	0.000	74.88	63.36
50.00	(2) 1/2" Coax	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	1.66
50.00	(4) DYWIDAG	Yes	4.60	1.200	1.46	0.56	0.67	23.856	0.201	0.000	28.20	0.00



Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



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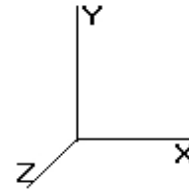
<b>Load Case:</b> 1.2D + 1.6W	110.00 mph with No Ice	25 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

55.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	24.515	0.207	0.000	42.71	29.52
55.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	0.48
55.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	1.80
55.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	21.90
55.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	1.62
55.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	6.30
55.00	(14) 1 5/8" Coax	Yes	5.00	1.159	3.96	1.65	1.91	24.515	0.207	0.000	82.51	68.87
55.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	1.80
55.00	(4) DYWIDAG	Yes	5.00	1.200	1.46	0.61	0.73	24.515	0.207	0.000	31.50	0.00
55.68	(6) 1 5/8" Coax	Yes	0.68	1.200	1.98	0.11	0.13	24.600	0.210	0.000	5.80	4.00
55.68	(1) 3/8" Coax	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	0.06
55.68	(2) 1/2" Coax	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	0.24
55.68	(1) 2" Conduit	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	2.97
55.68	(6) 5/16" Coax	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	0.22
55.68	(1) 1 1/4" Fiber	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	0.85
55.68	(14) 1 5/8" Coax	Yes	0.68	1.157	3.96	0.22	0.26	24.600	0.210	0.000	11.19	9.33
55.68	(2) 1/2" Coax	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	0.24
55.68	(4) DYWIDAG	Yes	0.68	1.200	1.46	0.08	0.10	24.600	0.210	0.000	4.28	0.00
60.00	(6) 1 5/8" Coax	Yes	4.32	1.200	1.98	0.71	0.86	25.132	0.214	0.000	37.86	25.52
60.00	(1) 3/8" Coax	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	0.42
60.00	(2) 1/2" Coax	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	1.56
60.00	(1) 2" Conduit	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	18.93
60.00	(6) 5/16" Coax	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	1.40
60.00	(1) 1 1/4" Fiber	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	5.45
60.00	(14) 1 5/8" Coax	Yes	4.32	1.145	3.96	1.43	1.63	25.132	0.214	0.000	72.23	59.55
60.00	(2) 1/2" Coax	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	1.56
60.00	(4) DYWIDAG	Yes	4.32	1.200	1.46	0.53	0.63	25.132	0.214	0.000	27.92	0.00
65.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	25.713	0.203	0.000	44.80	29.52
65.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	0.48
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	1.80
65.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	21.90
65.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	1.62
65.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	6.30
65.00	(14) 1 5/8" Coax	Yes	5.00	1.132	3.96	1.65	1.87	25.713	0.203	0.000	84.50	68.87
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	1.80
65.00	(4) DYWIDAG	Yes	3.00	1.200	1.46	0.37	0.44	25.713	0.203	0.000	19.82	0.00
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.263	0.183	1.248	0.00	29.52
70.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	0.48
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	1.80
70.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	21.90
70.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	1.62
70.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	6.30
70.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	26.263	0.183	1.248	0.00	68.87
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	1.80
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.786	0.189	1.267	0.00	29.52
75.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	0.48
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	1.80
75.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	21.90
75.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	1.62
75.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	6.30
75.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	26.786	0.189	1.267	0.00	68.87
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	1.80
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	27.285	0.196	1.288	0.00	29.52
80.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	0.48
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	1.80
80.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	21.90
80.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	1.62

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)

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7/17/2014 9:55:19 AM

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**Load Case: 1.2D + 1.6W**

110.00 mph with No Ice

25 Iterations

Gust Response Factor : 1.10  
 Dead Load Factor : 1.20  
 Wind Load Factor : 1.60

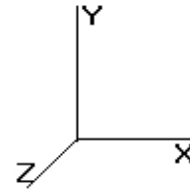
Wind Importance Factor : 1.00

80.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	6.30
80.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	27.285	0.196	1.288	0.00	68.87
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	1.80
80.75	(6) 1 5/8" Coax	Yes	0.75	1.200	1.98	0.12	0.15	27.357	0.200	0.000	7.14	4.42
80.75	(1) 3/8" Coax	Yes	0.75	0.000	0.00	0.00	0.00	27.357	0.200	0.000	0.00	0.07
80.75	(2) 1/2" Coax	Yes	0.75	0.000	0.00	0.00	0.00	27.357	0.200	0.000	0.00	0.27
80.75	(1) 2" Conduit	Yes	0.75	0.000	0.00	0.00	0.00	27.357	0.200	0.000	0.00	3.28
80.75	(6) 5/16" Coax	Yes	0.75	0.000	0.00	0.00	0.00	27.357	0.200	0.000	0.00	0.24
80.75	(1) 1 1/4" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	27.357	0.200	0.000	0.00	0.94
80.75	(14) 1 5/8" Coax	Yes	0.75	1.097	3.96	0.25	0.27	27.357	0.200	0.000	13.05	10.31
84.90	(6) 1 5/8" Coax	Yes	4.15	1.200	1.98	0.68	0.82	27.752	0.204	0.000	40.15	24.50
84.90	(1) 3/8" Coax	Yes	4.15	0.000	0.00	0.00	0.00	27.752	0.204	0.000	0.00	0.40
84.90	(2) 1/2" Coax	Yes	4.15	0.000	0.00	0.00	0.00	27.752	0.204	0.000	0.00	1.49
84.90	(1) 2" Conduit	Yes	4.15	0.000	0.00	0.00	0.00	27.752	0.204	0.000	0.00	18.18
84.90	(6) 5/16" Coax	Yes	4.15	0.000	0.00	0.00	0.00	27.752	0.204	0.000	0.00	1.34
84.90	(1) 1 1/4" Fiber	Yes	4.15	0.000	0.00	0.00	0.00	27.752	0.204	0.000	0.00	5.23
84.90	(14) 1 5/8" Coax	Yes	4.15	1.089	3.96	1.37	1.49	27.752	0.204	0.000	72.88	57.18
85.00	(6) 1 5/8" Coax	Yes	0.10	1.200	1.98	0.02	0.02	27.761	0.204	0.000	0.97	0.59
85.00	(1) 3/8" Coax	Yes	0.10	0.000	0.00	0.00	0.00	27.761	0.204	0.000	0.00	0.01
85.00	(2) 1/2" Coax	Yes	0.10	0.000	0.00	0.00	0.00	27.761	0.204	0.000	0.00	0.04
85.00	(1) 2" Conduit	Yes	0.10	0.000	0.00	0.00	0.00	27.761	0.204	0.000	0.00	0.44
85.00	(6) 5/16" Coax	Yes	0.10	0.000	0.00	0.00	0.00	27.761	0.204	0.000	0.00	0.03
85.00	(1) 1 1/4" Fiber	Yes	0.10	0.000	0.00	0.00	0.00	27.761	0.204	0.000	0.00	0.13
85.00	(14) 1 5/8" Coax	Yes	0.10	1.089	3.96	0.03	0.04	27.761	0.204	0.000	1.76	1.38
90.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	28.219	0.208	0.000	49.17	29.52
90.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.219	0.208	0.000	0.00	0.48
90.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.219	0.208	0.000	0.00	1.80
90.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	28.219	0.208	0.000	0.00	21.90
90.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.219	0.208	0.000	0.00	1.62
90.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	28.219	0.208	0.000	0.00	6.30
90.00	(14) 1 5/8" Coax	Yes	5.00	1.080	3.96	1.65	1.78	28.219	0.208	0.000	88.52	68.87
95.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.658	0.072	0.000	0.00	29.52
95.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.658	0.072	0.000	0.00	0.48
95.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.658	0.072	0.000	0.00	1.80
95.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	28.658	0.072	0.000	0.00	21.90
95.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.658	0.072	0.000	0.00	1.62
100.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	29.081	0.075	0.000	0.00	29.52
100.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.081	0.075	0.000	0.00	0.48
100.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.081	0.075	0.000	0.00	1.80
100.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	29.081	0.075	0.000	0.00	21.90
100.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.081	0.075	0.000	0.00	1.62
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	29.489	0.078	0.000	0.00	29.52
105.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.489	0.078	0.000	0.00	0.48
105.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.489	0.078	0.000	0.00	1.80
105.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	29.489	0.078	0.000	0.00	21.90
105.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.489	0.078	0.000	0.00	1.62
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	29.884	0.082	0.000	0.00	29.52
110.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.884	0.082	0.000	0.00	0.48
110.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.884	0.082	0.000	0.00	1.80
110.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	29.884	0.082	0.000	0.00	21.90
110.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.884	0.082	0.000	0.00	1.62
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	30.266	0.086	0.000	0.00	29.52
115.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.266	0.086	0.000	0.00	0.48
115.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.266	0.086	0.000	0.00	1.80
115.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	30.266	0.086	0.000	0.00	21.90
115.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.266	0.086	0.000	0.00	1.62
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	30.636	0.090	0.000	0.00	29.52

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)

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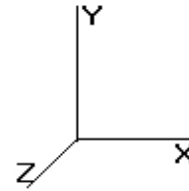
**Load Case:** 1.2D + 1.6W                      110.00 mph with No Ice                      25 Iterations  
 Gust Response Factor : 1.10                      Wind Importance Factor : 1.00  
 Dead Load Factor : 1.20  
 Wind Load Factor : 1.60

120.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.636	0.090	0.000	0.00	0.48
120.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.636	0.090	0.000	0.00	1.80
120.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	30.636	0.090	0.000	0.00	21.90
120.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.636	0.090	0.000	0.00	1.62
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	30.995	0.095	0.000	0.00	29.52
125.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.995	0.095	0.000	0.00	0.48
125.8	(6) 1 5/8" Coax	Yes	0.80	0.000	1.98	0.13	0.00	31.052	0.098	0.000	0.00	4.73
125.8	(1) 3/8" Coax	Yes	0.80	0.000	0.00	0.00	0.00	31.052	0.098	0.000	0.00	0.08
130.0	(6) 1 5/8" Coax	Yes	4.20	0.000	1.98	0.69	0.00	31.345	0.184	1.253	0.00	24.79
130.0	(1) 3/8" Coax	Yes	4.20	0.000	0.00	0.00	0.00	31.345	0.184	1.253	0.00	0.40
131.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	31.413	0.184	1.253	0.00	5.90
131.0	(1) 3/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.413	0.184	1.253	0.00	0.10
135.0	(6) 1 5/8" Coax	Yes	4.00	0.000	1.98	0.66	0.00	31.684	0.184	1.253	0.00	23.61
135.0	(1) 3/8" Coax	Yes	4.00	0.000	0.00	0.00	0.00	31.684	0.184	1.253	0.00	0.38
136.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	31.751	0.184	1.253	0.00	5.90
136.0	(1) 3/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.751	0.184	1.253	0.00	0.10
<b>Totals:</b>										892.14	2,805.47	

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)

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**Load Case:** 1.2D + 1.6W      110.00 mph with No Ice      25 Iterations

Gust Response Factor : 1.10      Wind Importance Factor : 1.00

Dead Load Factor : 1.20

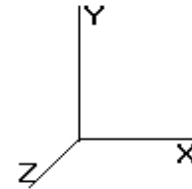
Wind Load Factor : 1.60

### Applied Segment Forces Summary

Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	822.16	1,978.19	0.00	0.00
10.00	810.52	1,947.61	0.00	0.00
15.00	798.88	1,917.04	0.00	0.00
20.00	787.24	1,886.46	0.00	0.00
25.00	775.60	1,855.88	0.00	0.00
30.00	764.61	1,825.30	0.00	0.00
35.00	786.86	1,794.72	0.00	0.00
40.00	804.82	1,764.14	0.00	0.00
40.24	38.96	85.19	0.00	0.00
45.00	795.31	2,499.95	0.00	0.00
45.40	73.15	207.85	0.00	0.00
50.00	853.31	1,453.96	0.00	0.00
55.00	929.17	1,555.20	0.00	0.00
55.68	124.40	208.56	0.00	0.00
60.00	800.21	1,031.65	0.00	0.00
65.00	909.53	1,168.78	0.00	0.00
70.00	831.81	1,179.29	0.00	0.00
75.00	781.85	1,115.46	0.00	0.00
80.00	1,176.68	1,214.77	0.00	0.00
80.75	127.11	160.53	0.00	0.00
84.90	714.17	1,267.00	0.00	0.00
85.00	17.06	16.76	0.00	0.00
90.00	3,934.44	3,979.51	0.00	0.00
95.00	578.32	732.67	0.00	0.00
100.0	4,893.52	3,653.75	0.00	0.00
105.0	547.49	630.89	0.00	0.00
110.0	4,370.30	3,499.41	0.00	0.00
115.0	513.05	536.91	0.00	0.00
120.0	5,412.53	4,340.83	0.00	0.00
125.0	475.38	452.64	0.00	0.00
125.8	73.92	70.84	0.00	0.00
130.0	155.97	314.35	0.00	0.00
131.0	4,488.28	3,413.73	0.00	0.00
135.0	150.17	223.64	0.00	0.00
136.0	428.42	140.51	0.00	1,520.29
140.0	121.15	199.64	0.00	0.00
142.0	60.82	99.82	0.00	0.00
<b>Totals:</b>	<b>40,727.17</b>	<b>50,423.41</b>	<b>0.00</b>	<b>1,520.29</b>

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



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**Load Case:** 1.2D + 1.6W                      110.00 mph with No Ice                      25 Iterations

Gust Response Factor : 1.10                      Wind Importance Factor : 1.00

Dead Load Factor : 1.20

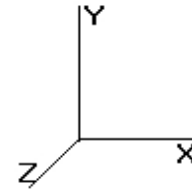
Wind Load Factor : 1.60

**Calculated Forces**

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-50.34	-40.83	0.00	-3,748.35	0.00	3,748.35	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.680
5.00	-48.20	-40.20	0.00	-3,544.20	0.00	3,544.20	4,285.51	2,142.75	7,679.11	3,792.42	0.12	-0.23	0.663
10.00	-46.10	-39.56	0.00	-3,343.20	0.00	3,343.20	4,218.97	2,109.49	7,373.27	3,641.38	0.49	-0.46	0.645
15.00	-44.03	-38.93	0.00	-3,145.39	0.00	3,145.39	4,150.52	2,075.26	7,070.06	3,491.64	1.10	-0.69	0.626
20.00	-42.00	-38.28	0.00	-2,950.76	0.00	2,950.76	4,080.16	2,040.08	6,769.73	3,343.32	1.95	-0.93	0.607
25.00	-40.01	-37.64	0.00	-2,759.35	0.00	2,759.35	4,007.88	2,003.94	6,472.54	3,196.54	3.05	-1.16	0.587
30.00	-38.05	-36.99	0.00	-2,571.16	0.00	2,571.16	3,933.69	1,966.85	6,178.73	3,051.44	4.40	-1.40	0.566
35.00	-36.13	-36.30	0.00	-2,386.22	0.00	2,386.22	3,854.52	1,927.26	5,883.88	2,905.83	5.99	-1.63	0.545
40.00	-34.31	-35.52	0.00	-2,204.72	0.00	2,204.72	3,744.12	1,872.06	5,549.75	2,740.81	7.82	-1.86	0.526
40.24	-34.16	-35.54	0.00	-2,196.07	0.00	2,196.07	3,738.74	1,869.37	5,533.72	2,732.90	7.91	-1.87	0.525
45.00	-31.61	-34.73	0.00	-2,027.01	0.00	2,027.01	3,633.72	1,816.86	5,225.39	2,580.62	9.89	-2.09	0.500
45.40	-31.34	-34.71	0.00	-2,013.13	0.00	2,013.13	3,063.79	1,531.89	4,506.32	2,225.50	10.07	-2.11	0.557
50.00	-29.79	-33.92	0.00	-1,853.47	0.00	1,853.47	3,008.67	1,504.34	4,302.82	2,125.00	12.21	-2.32	0.529
55.00	-28.20	-32.98	0.00	-1,683.89	0.00	1,683.89	2,946.93	1,473.46	4,084.17	2,017.02	14.76	-2.55	0.498
55.68	-27.93	-32.91	0.00	-1,661.56	0.00	1,661.56	2,938.42	1,469.21	4,054.78	2,002.51	15.13	-2.58	0.494
55.68	-27.93	-32.91	0.00	-1,661.56	0.00	1,661.56	2,938.42	1,469.21	4,054.78	2,002.51	15.13	-2.58	0.840
60.00	-26.77	-32.20	0.00	-1,519.30	0.00	1,519.30	2,883.27	1,441.64	3,868.42	1,910.47	17.56	-2.78	0.805
65.00	-25.45	-31.40	0.00	-1,358.32	0.00	1,358.32	2,808.41	1,404.21	3,643.77	1,799.52	20.68	-3.17	0.764
70.00	-24.12	-30.66	0.00	-1,201.34	0.00	1,201.34	2,713.79	1,356.89	3,400.96	1,679.60	24.20	-3.54	0.725
75.00	-22.87	-29.95	0.00	-1,048.07	0.00	1,048.07	2,619.16	1,309.58	3,166.52	1,563.83	28.10	-3.91	0.679
80.00	-21.64	-28.76	0.00	-898.34	0.00	898.34	2,524.53	1,262.26	2,940.46	1,452.18	32.38	-4.26	0.628
80.75	-21.41	-28.69	0.00	-876.81	0.00	876.81	2,510.36	1,255.18	2,907.34	1,435.82	33.06	-4.31	0.620
84.90	-20.13	-27.92	0.00	-757.73	0.00	757.73	1,500.18	750.09	1,728.96	853.87	36.93	-4.59	0.902
85.00	-20.00	-27.99	0.00	-754.93	0.00	754.93	1,499.54	749.77	1,726.89	852.85	37.03	-4.60	0.900
90.00	-16.20	-23.85	0.00	-615.00	0.00	615.00	1,466.64	733.32	1,624.12	802.09	42.08	-5.03	0.779
95.00	-15.37	-23.31	0.00	-495.75	0.00	495.75	1,431.82	715.91	1,522.23	751.77	47.56	-5.43	0.671
100.00	-12.11	-18.15	0.00	-379.22	0.00	379.22	1,395.09	697.54	1,421.47	702.01	53.44	-5.78	0.550
105.00	-11.45	-17.60	0.00	-288.47	0.00	288.47	1,356.44	678.22	1,322.10	652.93	59.65	-6.09	0.451
110.00	-8.40	-12.91	0.00	-200.50	0.00	200.50	1,315.88	657.94	1,224.36	604.67	66.16	-6.34	0.338
115.00	-7.88	-12.36	0.00	-135.97	0.00	135.97	1,273.40	636.70	1,128.51	557.33	72.91	-6.55	0.251
120.00	-4.18	-6.49	0.00	-74.18	0.00	74.18	1,215.41	607.71	1,023.36	505.40	79.83	-6.69	0.150
125.00	-3.78	-5.97	0.00	-41.73	0.00	41.73	1,152.33	576.16	919.28	454.00	86.88	-6.79	0.095
125.80	-3.72	-5.89	0.00	-36.95	0.00	36.95	1,142.23	571.11	903.13	446.02	88.02	-6.80	0.086
125.80	-3.72	-5.89	0.00	-36.95	0.00	36.95	385.02	192.51	160.54	106.00	88.02	-6.80	0.359
130.00	-3.42	-5.70	0.00	-12.22	0.00	12.22	385.02	192.51	160.54	106.00	94.00	-6.84	0.125
131.00	-0.57	-0.83	0.00	-6.53	0.00	6.53	385.02	192.51	160.54	106.00	95.43	-6.85	0.063
135.00	-0.36	-0.66	0.00	-3.19	0.00	3.19	385.02	192.51	160.54	106.00	101.18	-6.89	0.031
136.00	-0.28	-0.22	0.00	-1.01	0.00	1.01	385.02	192.51	160.54	106.00	102.62	-6.89	0.010
140.00	-0.09	-0.07	0.00	-0.14	0.00	0.14	385.02	192.51	160.54	106.00	108.38	-6.90	0.002
142.00	0.00	-0.06	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	111.26	-6.90	0.000

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



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**Load Case:** 0.9D + 1.6W      110.00 mph with No Ice (Reduced DL)      25 Iterations

Gust Response Factor : 1.10      Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

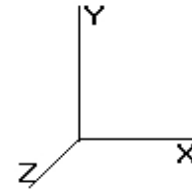
**Shaft Segment Forces (Factored)**

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	20.599	22.65	357.29	1.000	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	20.599	22.65	348.85	1.000	* 0.000	5.00	19.182	19.18	695.4	0.0	1,283.8
10.00		1.00	0.70	20.599	22.65	340.41	1.000	* 0.000	5.00	18.723	18.72	678.8	0.0	1,260.9
15.00		1.00	0.70	20.599	22.65	331.97	1.000	* 0.000	5.00	18.265	18.26	662.2	0.0	1,237.9
20.00		1.00	0.70	20.599	22.65	323.53	1.000	* 0.000	5.00	17.806	17.81	645.6	0.0	1,215.0
25.00		1.00	0.70	20.599	22.65	315.08	1.000	* 0.000	5.00	17.348	17.35	628.9	0.0	1,192.1
30.00		1.00	0.70	20.616	22.67	306.77	1.000	* 0.000	5.00	16.889	16.89	612.8	0.0	1,169.1
35.00		1.00	0.73	21.545	23.69	304.97	1.000	* 0.000	5.00	16.430	16.43	623.0	0.0	1,146.2
40.00		1.00	0.76	22.383	24.62	302.04	1.000	* 0.000	5.00	15.972	15.97	629.2	0.0	1,123.3
40.24	Bot - Section 2	1.00	0.76	22.421	24.66	301.88	1.000	* 0.000	0.24	0.767	0.77	30.3	0.0	54.2
45.00		1.00	0.78	23.149	25.46	298.22	1.000	* 0.000	4.76	15.054	15.05	613.3	0.0	1,684.9
45.40	Top - Section 1	1.00	0.78	23.207	25.52	297.88	1.200	* 0.000	0.40	1.247	1.50	61.1	0.0	139.9
50.00		1.00	0.81	23.856	26.24	300.07	1.200	* 0.000	4.60	14.131	16.96	712.0	0.0	906.6
55.00		1.00	0.83	24.515	26.96	294.97	1.200	* 0.000	5.00	14.919	17.90	772.5	0.0	966.6
55.68	Reinf. Top	1.00	0.83	24.600	27.06	294.24	1.200	* 0.000	0.68	1.985	2.38	103.1	0.0	129.4
60.00		1.00	0.85	25.132	27.64	289.34	1.200	* 0.000	4.32	12.476	14.97	662.2	0.0	528.8
65.00		1.00	0.87	25.713	28.28	283.23	1.200	* 0.000	5.00	14.002	16.80	760.4	0.0	593.2
70.00	Appertunance(s)	1.00	0.89	26.263	28.89	276.71	1.000	* 0.000	5.00	13.544	13.54	626.0	0.0	573.6
75.00		1.00	0.91	26.786	29.46	269.83	1.000	* 0.000	5.00	13.085	13.08	616.9	0.0	553.9
80.00	Appertunance(s)	1.00	0.92	27.285	30.01	262.61	1.000	* 0.000	5.00	12.626	12.63	606.3	0.0	534.3
80.75	Bot - Section 3	1.00	0.93	27.357	30.09	261.51	1.200	* 0.000	0.75	1.851	2.22	106.9	0.0	78.3
84.90	Top - Section 2	1.00	0.94	27.752	30.52	255.25	1.200	* 0.000	4.15	10.256	12.31	601.1	0.0	716.7
85.00		1.00	0.94	27.761	30.53	259.71	1.200	* 0.000	0.10	0.244	0.29	14.3	0.0	6.9
90.00	Appertunance(s)	1.00	0.95	28.219	31.04	251.95	1.200	* 0.000	5.00	11.925	14.31	710.7	0.0	337.7
95.00		1.00	0.97	28.658	31.52	243.95	1.000	0.000	5.00	11.466	11.47	578.3	0.0	324.6
100.0	Appertunance(s)	1.00	0.98	29.081	31.98	235.72	1.000	0.000	5.00	11.007	11.01	563.4	0.0	311.5
105.0		1.00	1.00	29.489	32.43	227.26	1.000	0.000	5.00	10.549	10.55	547.5	0.0	298.4
110.0	Appertunance(s)	1.00	1.01	29.884	32.87	218.61	1.000	0.000	5.00	10.090	10.09	530.7	0.0	285.3
115.0		1.00	1.02	30.266	33.29	209.77	1.000	0.000	5.00	9.632	9.63	513.1	0.0	272.1
120.0	Appertunance(s)	1.00	1.04	30.636	33.69	200.76	1.000	0.000	5.00	9.173	9.17	494.6	0.0	259.0
125.0		1.00	1.05	30.995	34.09	191.58	1.000	0.000	5.00	8.714	8.71	475.4	0.0	245.9
125.8	Top - Section 3	1.00	1.05	31.052	34.15	190.09	1.000	0.000	0.80	1.353	1.35	73.9	0.0	38.2
130.0		1.00	1.06	31.345	34.47	101.70	0.600	* 0.000	4.20	3.762	2.26	124.5	0.0	157.2
131.0	Appertunance(s)	1.00	1.06	31.413	34.55	101.81	0.600	* 0.000	1.00	0.896	0.54	29.7	0.0	37.4
135.0		1.00	1.07	31.684	34.85	102.25	0.600	* 0.000	4.00	3.583	2.15	119.9	0.0	149.7
136.0	Appertunance(s)	1.00	1.07	31.751	34.92	102.35	0.600	* 0.000	1.00	0.896	0.54	30.0	0.0	37.4
140.0		1.00	1.08	32.015	35.21	102.78	0.600	0.000	4.00	3.583	2.15	121.1	0.0	149.7
142.0		1.00	1.09	32.145	35.36	102.99	0.600	0.000	2.00	1.792	1.08	60.8	0.0	74.9
<b>Totals:</b>									142.00			16,436.1	0.0	20,074.5

\* = Cf Adjusted By Linear Load Ra Effect

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



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**Load Case:** 0.9D + 1.6W      110.00 mph with No Ice (Reduced DL)      25 Iterations

Gust Response Factor : 1.10      Wind Importance Factor : 1.00

Dead Load Factor : 0.90

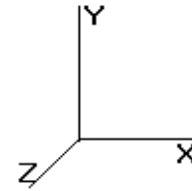
Wind Load Factor : 1.60

**Discrete Appurtenance Segment Forces (Factored)**

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orientation Factor	Ka	Total EPAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
70.00	PCTEL GPS-TMG-HR-	1	26.263	28.890	1.00	1.00	0.09	0.000	0.000	4.16	0.00	0.00	0.54
70.00	Stand-Off	1	26.263	28.890	1.00	1.00	1.00	0.000	0.000	46.22	0.00	0.00	27.00
80.00	Diamond X50A	2	27.285	30.013	1.00	1.00	2.24	0.000	0.000	107.57	0.00	0.00	4.14
80.00	Stand-Offs	2	27.285	30.013	1.00	1.00	6.00	0.000	0.000	288.13	0.00	0.00	90.00
90.00	Flat Platform w/ Han	1	28.219	31.040	0.90	1.00	38.16	0.000	0.000	1,895.20	0.00	0.00	1,800.00
90.00	RFS ATMAA1412D-	4	28.219	31.040	0.50	0.75	1.50	0.000	0.000	74.50	0.00	0.00	46.80
90.00	Ericsson AIR 21, 1.3	4	28.219	31.040	0.71	0.75	12.89	0.000	0.000	640.00	0.00	0.00	298.80
90.00	Ericsson AIR 21, 1.3	3	28.219	31.040	0.70	0.75	9.59	0.000	0.000	476.37	0.00	0.00	220.05
100.0	Flat Platform w/ Han	1	29.081	31.989	0.90	1.00	38.16	0.000	0.000	1,953.11	0.00	0.00	1,800.00
100.0	Rymsa MGD3-800TX	3	29.081	31.989	0.82	0.75	6.16	0.000	0.000	315.40	0.00	0.00	41.58
100.0	Allgon P65-16-XL-2	3	29.081	31.989	0.75	0.75	13.72	0.000	0.000	702.19	0.00	0.00	89.10
100.0	RFS FD9R6004/1C-3L	6	29.081	31.989	0.50	0.75	0.83	0.000	0.000	42.61	0.00	0.00	16.74
100.0	Alcatel-Lucent RRH2x	3	29.081	31.989	0.50	0.75	2.43	0.000	0.000	124.37	0.00	0.00	118.80
100.0	RFS DB-T1-6Z-8AB-0Z	1	29.081	31.989	1.00	0.75	3.60	0.000	0.000	184.26	0.00	0.00	39.60
100.0	Antel BXA-70080/6CF	3	29.081	31.989	0.88	0.75	11.56	0.000	0.000	591.83	0.00	0.00	48.60
100.0	Antel BXA-171063/12C	3	29.081	31.989	0.72	0.75	7.76	0.000	0.000	397.16	0.00	0.00	40.50
100.0	GPS	1	29.081	31.989	0.50	0.75	0.38	0.000	0.000	19.19	0.00	0.00	9.00
110.0	Flat Platform w/ Han	1	29.884	32.872	0.90	1.00	38.16	0.000	0.000	2,007.03	0.00	0.00	1,800.00
110.0	72" x 12" Panel	3	29.884	32.872	0.67	0.75	12.26	0.000	0.000	644.61	0.00	0.00	121.50
110.0	48" x 12" Panel	9	29.884	32.872	0.66	0.75	22.59	0.000	0.000	1,187.96	0.00	0.00	243.00
120.0	Flat Platform w/ Han	1	30.636	33.699	1.00	1.00	42.40	0.000	0.000	2,286.17	0.00	0.00	1,800.00
120.0	NextNet BTS-2500	3	30.636	33.699	0.50	0.75	2.05	0.000	0.000	110.40	0.00	0.00	94.50
120.0	DragonWave A-ANT-	2	30.636	33.699	0.90	0.75	6.33	0.000	0.000	341.39	0.00	0.00	48.78
120.0	DragonWave Horizon	2	30.636	33.699	0.50	0.75	0.32	0.000	0.000	17.39	0.00	0.00	19.08
120.0	Argus LLPX310R	3	30.636	33.699	0.73	0.75	7.05	0.000	0.000	379.93	0.00	0.00	77.22
120.0	RFS APXVSP18-C-	3	30.636	33.699	0.69	0.75	12.45	0.000	0.000	671.35	0.00	0.00	153.90
120.0	Alcatel-Lucent 1900	3	30.636	33.699	0.50	0.75	2.61	0.000	0.000	140.73	0.00	0.00	162.00
120.0	Alcatel-Lucent 800 M	3	30.636	33.699	0.50	0.75	2.32	0.000	0.000	124.96	0.00	0.00	172.80
120.0	Alcatel-Lucent TD-RR	3	30.636	33.699	0.50	0.75	4.56	0.000	0.000	245.67	0.00	0.00	189.00
120.0	RFS APXV9TM14-ALU-	3	30.636	33.699	0.78	0.75	11.13	0.000	0.000	599.94	0.00	0.00	148.77
131.0	Flat Platform w/ Han	1	31.413	34.555	1.00	1.00	42.40	0.000	0.000	2,344.18	0.00	0.00	1,800.00
131.0	Powerwave 7770	6	31.413	34.555	0.65	0.75	16.12	0.000	0.000	891.05	0.00	0.00	189.00
131.0	Powerwave LGP21401	6	31.413	34.555	0.50	0.75	2.48	0.000	0.000	136.84	0.00	0.00	76.14
131.0	Powerwave LGP219nn	6	31.413	34.555	0.50	0.75	0.52	0.000	0.000	28.61	0.00	0.00	29.70
131.0	Powerwave P65-16-	3	31.413	34.555	0.67	0.75	12.26	0.000	0.000	677.60	0.00	0.00	143.10
131.0	Ericsson RRUS 11 (Ba	6	31.413	34.555	0.50	0.75	5.78	0.000	0.000	319.70	0.00	0.00	237.60
131.0	Raycap DC6-48-60-18-	1	31.413	34.555	1.00	0.75	0.96	0.000	0.000	53.08	0.00	0.00	28.62
136.0	Kathrein 742-218 / A	3	32.015	35.217	0.73	0.80	6.75	0.000	4.000	380.07	0.00	1,520.29	60.75
136.0	Generic RCU	3	31.751	34.926	0.50	0.80	0.19	0.000	0.000	10.73	0.00	0.00	2.70
										21,461.66			12,289.41

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



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<b>Load Case:</b> 0.9D + 1.6W	110.00 mph with No Ice (Reduced DL)	25 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 0.90		
Wind Load Factor : 1.60		

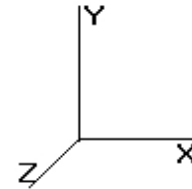
**Linear Appurtenance Segment Forces (Factored)**

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	FX (lb)	Dead Load (lb)
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.161	1.182	0.00	22.14
5.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	0.36
5.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	1.35
5.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	16.42
5.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	1.22
5.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	4.72
5.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.161	1.182	0.00	51.65
5.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	1.35
5.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.599	0.161	1.182	0.00	0.00
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.165	1.194	0.00	22.14
10.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	0.36
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	1.35
10.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	16.42
10.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	1.22
10.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	4.72
10.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.165	1.194	0.00	51.65
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	1.35
10.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.599	0.165	1.194	0.00	0.00
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.169	1.206	0.00	22.14
15.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	0.36
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	1.35
15.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	16.42
15.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	1.22
15.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	4.72
15.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.169	1.206	0.00	51.65
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	1.35
15.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.599	0.169	1.206	0.00	0.00
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.173	1.219	0.00	22.14
20.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	0.36
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	1.35
20.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	16.42
20.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	1.22
20.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	4.72
20.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.173	1.219	0.00	51.65
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	1.35
20.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.599	0.173	1.219	0.00	0.00
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.178	1.233	0.00	22.14
25.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	0.36
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	1.35
25.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	16.42
25.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	1.22
25.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	4.72
25.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.178	1.233	0.00	51.65
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	1.35
25.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.599	0.178	1.233	0.00	0.00
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.616	0.183	1.248	0.00	22.14
30.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	0.36
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	1.35
30.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	16.42
30.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	1.22
30.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	4.72



Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



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**Load Case:** 0.9D + 1.6W      110.00 mph with No Ice (Reduced DL)      25 Iterations

Gust Response Factor : 1.10      Wind Importance Factor : 1.00

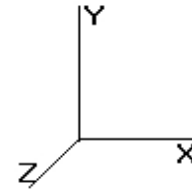
Dead Load Factor : 0.90

Wind Load Factor : 1.60

30.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.616	0.183	1.248	0.00	51.65
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	1.35
30.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.616	0.183	1.248	0.00	0.00
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	21.545	0.188	1.263	0.00	22.14
35.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	0.36
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	1.35
35.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	16.42
35.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	1.22
35.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	4.72
35.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	21.545	0.188	1.263	0.00	51.65
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	1.35
35.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	21.545	0.188	1.263	0.00	0.00
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	22.383	0.193	1.279	0.00	22.14
40.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	0.36
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	1.35
40.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	16.42
40.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	1.22
40.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	4.72
40.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	22.383	0.193	1.279	0.00	51.65
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	1.35
40.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	22.383	0.193	1.279	0.00	0.00
40.24	(6) 1 5/8" Coax	Yes	0.24	0.000	1.98	0.04	0.00	22.421	0.196	1.288	0.00	1.08
40.24	(1) 3/8" Coax	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.02
40.24	(2) 1/2" Coax	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.07
40.24	(1) 2" Conduit	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.80
40.24	(6) 5/16" Coax	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.06
40.24	(1) 1 1/4" Fiber	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.23
40.24	(14) 1 5/8" Coax	Yes	0.24	0.000	3.96	0.08	0.00	22.421	0.196	1.288	0.00	2.52
40.24	(2) 1/2" Coax	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.07
40.24	(4) DYWIDAG	Yes	0.24	0.000	1.46	0.03	0.00	22.421	0.196	1.288	0.00	0.00
45.00	(6) 1 5/8" Coax	Yes	4.76	0.000	1.98	0.78	0.00	23.149	0.199	1.297	0.00	21.06
45.00	(1) 3/8" Coax	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	0.34
45.00	(2) 1/2" Coax	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	1.28
45.00	(1) 2" Conduit	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	15.62
45.00	(6) 5/16" Coax	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	1.16
45.00	(1) 1 1/4" Fiber	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	4.49
45.00	(14) 1 5/8" Coax	Yes	4.76	0.000	3.96	1.57	0.00	23.149	0.199	1.297	0.00	49.14
45.00	(2) 1/2" Coax	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	1.28
45.00	(4) DYWIDAG	Yes	4.76	0.000	1.46	0.58	0.00	23.149	0.199	1.297	0.00	0.00
45.40	(6) 1 5/8" Coax	Yes	0.40	1.200	1.98	0.07	0.08	23.207	0.202	0.000	3.23	1.77
45.40	(1) 3/8" Coax	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	0.03
45.40	(2) 1/2" Coax	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	0.11
45.40	(1) 2" Conduit	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	1.31
45.40	(6) 5/16" Coax	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	0.10
45.40	(1) 1 1/4" Fiber	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	0.38
45.40	(14) 1 5/8" Coax	Yes	0.40	1.191	3.96	0.13	0.16	23.207	0.202	0.000	6.42	4.13
45.40	(2) 1/2" Coax	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	0.11
45.40	(4) DYWIDAG	Yes	0.40	1.200	1.46	0.05	0.06	23.207	0.202	0.000	2.38	0.00
50.00	(6) 1 5/8" Coax	Yes	4.60	1.200	1.98	0.76	0.91	23.856	0.201	0.000	38.24	20.37
50.00	(1) 3/8" Coax	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	0.33
50.00	(2) 1/2" Coax	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	1.24
50.00	(1) 2" Conduit	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	15.11
50.00	(6) 5/16" Coax	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	1.12
50.00	(1) 1 1/4" Fiber	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	4.35
50.00	(14) 1 5/8" Coax	Yes	4.60	1.175	3.96	1.52	1.78	23.856	0.201	0.000	74.88	47.52
50.00	(2) 1/2" Coax	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	1.24
50.00	(4) DYWIDAG	Yes	4.60	1.200	1.46	0.56	0.67	23.856	0.201	0.000	28.20	0.00

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



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**Load Case:** 0.9D + 1.6W      110.00 mph with No Ice (Reduced DL)      25 Iterations

Gust Response Factor : 1.10      Wind Importance Factor : 1.00

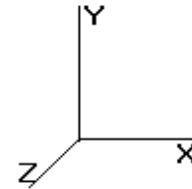
Dead Load Factor : 0.90

Wind Load Factor : 1.60

55.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	24.515	0.207	0.000	42.71	22.14
55.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	0.36
55.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	1.35
55.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	16.42
55.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	1.22
55.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	4.72
55.00	(14) 1 5/8" Coax	Yes	5.00	1.159	3.96	1.65	1.91	24.515	0.207	0.000	82.51	51.65
55.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	1.35
55.00	(4) DYWIDAG	Yes	5.00	1.200	1.46	0.61	0.73	24.515	0.207	0.000	31.50	0.00
55.68	(6) 1 5/8" Coax	Yes	0.68	1.200	1.98	0.11	0.13	24.600	0.210	0.000	5.80	3.00
55.68	(1) 3/8" Coax	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	0.05
55.68	(2) 1/2" Coax	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	0.18
55.68	(1) 2" Conduit	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	2.22
55.68	(6) 5/16" Coax	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	0.16
55.68	(1) 1 1/4" Fiber	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	0.64
55.68	(14) 1 5/8" Coax	Yes	0.68	1.157	3.96	0.22	0.26	24.600	0.210	0.000	11.19	6.99
55.68	(2) 1/2" Coax	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	0.18
55.68	(4) DYWIDAG	Yes	0.68	1.200	1.46	0.08	0.10	24.600	0.210	0.000	4.28	0.00
60.00	(6) 1 5/8" Coax	Yes	4.32	1.200	1.98	0.71	0.86	25.132	0.214	0.000	37.86	19.14
60.00	(1) 3/8" Coax	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	0.31
60.00	(2) 1/2" Coax	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	1.17
60.00	(1) 2" Conduit	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	14.20
60.00	(6) 5/16" Coax	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	1.05
60.00	(1) 1 1/4" Fiber	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	4.09
60.00	(14) 1 5/8" Coax	Yes	4.32	1.145	3.96	1.43	1.63	25.132	0.214	0.000	72.23	44.66
60.00	(2) 1/2" Coax	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	1.17
60.00	(4) DYWIDAG	Yes	4.32	1.200	1.46	0.53	0.63	25.132	0.214	0.000	27.92	0.00
65.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	25.713	0.203	0.000	44.80	22.14
65.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	0.36
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	1.35
65.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	16.42
65.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	1.22
65.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	4.72
65.00	(14) 1 5/8" Coax	Yes	5.00	1.132	3.96	1.65	1.87	25.713	0.203	0.000	84.50	51.65
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	1.35
65.00	(4) DYWIDAG	Yes	3.00	1.200	1.46	0.37	0.44	25.713	0.203	0.000	19.82	0.00
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.263	0.183	1.248	0.00	22.14
70.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	0.36
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	1.35
70.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	16.42
70.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	1.22
70.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	4.72
70.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	26.263	0.183	1.248	0.00	51.65
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	1.35
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.786	0.189	1.267	0.00	22.14
75.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	0.36
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	1.35
75.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	16.42
75.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	1.22
75.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	4.72
75.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	26.786	0.189	1.267	0.00	51.65
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	1.35
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	27.285	0.196	1.288	0.00	22.14
80.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	0.36
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	1.35
80.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	16.42
80.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	1.22

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



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**Load Case:** 0.9D + 1.6W      110.00 mph with No Ice (Reduced DL)      25 Iterations

Gust Response Factor : 1.10      Wind Importance Factor : 1.00

Dead Load Factor : 0.90

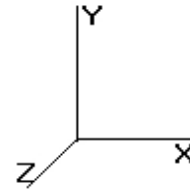
Wind Load Factor : 1.60

80.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	4.72
80.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	27.285	0.196	1.288	0.00	51.65
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	1.35
80.75	(6) 1 5/8" Coax	Yes	0.75	1.200	1.98	0.12	0.15	27.357	0.200	0.000	7.14	3.31
80.75	(1) 3/8" Coax	Yes	0.75	0.000	0.00	0.00	0.00	27.357	0.200	0.000	0.00	0.05
80.75	(2) 1/2" Coax	Yes	0.75	0.000	0.00	0.00	0.00	27.357	0.200	0.000	0.00	0.20
80.75	(1) 2" Conduit	Yes	0.75	0.000	0.00	0.00	0.00	27.357	0.200	0.000	0.00	2.46
80.75	(6) 5/16" Coax	Yes	0.75	0.000	0.00	0.00	0.00	27.357	0.200	0.000	0.00	0.18
80.75	(1) 1 1/4" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	27.357	0.200	0.000	0.00	0.71
80.75	(14) 1 5/8" Coax	Yes	0.75	1.097	3.96	0.25	0.27	27.357	0.200	0.000	13.05	7.73
84.90	(6) 1 5/8" Coax	Yes	4.15	1.200	1.98	0.68	0.82	27.752	0.204	0.000	40.15	18.38
84.90	(1) 3/8" Coax	Yes	4.15	0.000	0.00	0.00	0.00	27.752	0.204	0.000	0.00	0.30
84.90	(2) 1/2" Coax	Yes	4.15	0.000	0.00	0.00	0.00	27.752	0.204	0.000	0.00	1.12
84.90	(1) 2" Conduit	Yes	4.15	0.000	0.00	0.00	0.00	27.752	0.204	0.000	0.00	13.64
84.90	(6) 5/16" Coax	Yes	4.15	0.000	0.00	0.00	0.00	27.752	0.204	0.000	0.00	1.01
84.90	(1) 1 1/4" Fiber	Yes	4.15	0.000	0.00	0.00	0.00	27.752	0.204	0.000	0.00	3.92
84.90	(14) 1 5/8" Coax	Yes	4.15	1.089	3.96	1.37	1.49	27.752	0.204	0.000	72.88	42.88
85.00	(6) 1 5/8" Coax	Yes	0.10	1.200	1.98	0.02	0.02	27.761	0.204	0.000	0.97	0.44
85.00	(1) 3/8" Coax	Yes	0.10	0.000	0.00	0.00	0.00	27.761	0.204	0.000	0.00	0.01
85.00	(2) 1/2" Coax	Yes	0.10	0.000	0.00	0.00	0.00	27.761	0.204	0.000	0.00	0.03
85.00	(1) 2" Conduit	Yes	0.10	0.000	0.00	0.00	0.00	27.761	0.204	0.000	0.00	0.33
85.00	(6) 5/16" Coax	Yes	0.10	0.000	0.00	0.00	0.00	27.761	0.204	0.000	0.00	0.02
85.00	(1) 1 1/4" Fiber	Yes	0.10	0.000	0.00	0.00	0.00	27.761	0.204	0.000	0.00	0.09
85.00	(14) 1 5/8" Coax	Yes	0.10	1.089	3.96	0.03	0.04	27.761	0.204	0.000	1.76	1.04
90.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	28.219	0.208	0.000	49.17	22.14
90.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.219	0.208	0.000	0.00	0.36
90.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.219	0.208	0.000	0.00	1.35
90.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	28.219	0.208	0.000	0.00	16.42
90.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.219	0.208	0.000	0.00	1.22
90.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	28.219	0.208	0.000	0.00	4.72
90.00	(14) 1 5/8" Coax	Yes	5.00	1.080	3.96	1.65	1.78	28.219	0.208	0.000	88.52	51.65
95.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.658	0.072	0.000	0.00	22.14
95.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.658	0.072	0.000	0.00	0.36
95.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.658	0.072	0.000	0.00	1.35
95.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	28.658	0.072	0.000	0.00	16.42
95.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.658	0.072	0.000	0.00	1.22
100.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	29.081	0.075	0.000	0.00	22.14
100.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.081	0.075	0.000	0.00	0.36
100.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.081	0.075	0.000	0.00	1.35
100.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	29.081	0.075	0.000	0.00	16.42
100.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.081	0.075	0.000	0.00	1.22
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	29.489	0.078	0.000	0.00	22.14
105.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.489	0.078	0.000	0.00	0.36
105.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.489	0.078	0.000	0.00	1.35
105.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	29.489	0.078	0.000	0.00	16.42
105.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.489	0.078	0.000	0.00	1.22
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	29.884	0.082	0.000	0.00	22.14
110.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.884	0.082	0.000	0.00	0.36
110.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.884	0.082	0.000	0.00	1.35
110.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	29.884	0.082	0.000	0.00	16.42
110.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.884	0.082	0.000	0.00	1.22
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	30.266	0.086	0.000	0.00	22.14
115.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.266	0.086	0.000	0.00	0.36
115.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.266	0.086	0.000	0.00	1.35
115.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	30.266	0.086	0.000	0.00	16.42
115.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.266	0.086	0.000	0.00	1.22
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	30.636	0.090	0.000	0.00	22.14

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)

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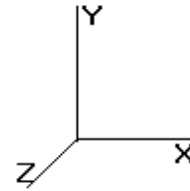
**Load Case:** 0.9D + 1.6W                      110.00 mph with No Ice (Reduced DL)                      25 Iterations  
 Gust Response Factor : 1.10                      Wind Importance Factor : 1.00  
 Dead Load Factor : 0.90  
 Wind Load Factor : 1.60

120.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.636	0.090	0.000	0.00	0.36
120.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.636	0.090	0.000	0.00	1.35
120.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	30.636	0.090	0.000	0.00	16.42
120.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.636	0.090	0.000	0.00	1.22
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	30.995	0.095	0.000	0.00	22.14
125.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.995	0.095	0.000	0.00	0.36
125.8	(6) 1 5/8" Coax	Yes	0.80	0.000	1.98	0.13	0.00	31.052	0.098	0.000	0.00	3.54
125.8	(1) 3/8" Coax	Yes	0.80	0.000	0.00	0.00	0.00	31.052	0.098	0.000	0.00	0.06
130.0	(6) 1 5/8" Coax	Yes	4.20	0.000	1.98	0.69	0.00	31.345	0.184	1.253	0.00	18.59
130.0	(1) 3/8" Coax	Yes	4.20	0.000	0.00	0.00	0.00	31.345	0.184	1.253	0.00	0.30
131.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	31.413	0.184	1.253	0.00	4.43
131.0	(1) 3/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.413	0.184	1.253	0.00	0.07
135.0	(6) 1 5/8" Coax	Yes	4.00	0.000	1.98	0.66	0.00	31.684	0.184	1.253	0.00	17.71
135.0	(1) 3/8" Coax	Yes	4.00	0.000	0.00	0.00	0.00	31.684	0.184	1.253	0.00	0.29
136.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	31.751	0.184	1.253	0.00	4.43
136.0	(1) 3/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.751	0.184	1.253	0.00	0.07
<b>Totals:</b>										<b>892.14</b>	<b>2,104.10</b>	

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)

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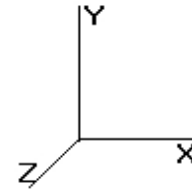
**Load Case:** 0.9D + 1.6W      110.00 mph with No Ice (Reduced DL)      25 Iterations  
 Gust Response Factor : 1.10      Wind Importance Factor : 1.00  
 Dead Load Factor : 0.90  
 Wind Load Factor : 1.60

### Applied Segment Forces Summary

Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	695.43	1,567.14	0.00	0.00
10.00	678.81	1,544.21	0.00	0.00
15.00	662.18	1,521.28	0.00	0.00
20.00	645.55	1,498.34	0.00	0.00
25.00	628.93	1,475.41	0.00	0.00
30.00	612.82	1,452.47	0.00	0.00
35.00	623.02	1,429.54	0.00	0.00
40.00	629.18	1,406.60	0.00	0.00
40.24	30.25	67.96	0.00	0.00
45.00	613.34	1,954.39	0.00	0.00
45.40	73.15	162.56	0.00	0.00
50.00	853.31	1,167.29	0.00	0.00
55.00	929.17	1,249.90	0.00	0.00
55.68	124.40	167.72	0.00	0.00
60.00	800.21	773.74	0.00	0.00
65.00	909.53	876.58	0.00	0.00
70.00	676.41	884.46	0.00	0.00
75.00	616.87	836.59	0.00	0.00
80.00	1,002.02	911.07	0.00	0.00
80.75	127.11	120.40	0.00	0.00
84.90	714.17	950.25	0.00	0.00
85.00	17.06	12.57	0.00	0.00
90.00	3,934.44	2,984.64	0.00	0.00
95.00	578.32	549.50	0.00	0.00
100.0	4,893.52	2,740.32	0.00	0.00
105.0	547.49	473.17	0.00	0.00
110.0	4,370.30	2,624.56	0.00	0.00
115.0	513.05	402.68	0.00	0.00
120.0	5,412.53	3,255.63	0.00	0.00
125.0	475.38	339.48	0.00	0.00
125.8	73.92	53.13	0.00	0.00
130.0	124.52	235.76	0.00	0.00
131.0	4,480.77	2,560.30	0.00	0.00
135.0	119.89	167.73	0.00	0.00
136.0	420.84	105.38	0.00	1,520.29
140.0	121.15	149.73	0.00	0.00
142.0	60.82	74.86	0.00	0.00
<b>Totals:</b>	<b>38,789.87</b>	<b>38,747.36</b>	<b>0.00</b>	<b>1,520.29</b>

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



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**Load Case:** 0.9D + 1.6W      110.00 mph with No Ice (Reduced DL)      25 Iterations

Gust Response Factor : 1.10      Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

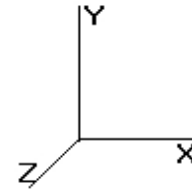
**Calculated Forces**

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-38.67	-38.87	0.00	-3,623.95	0.00	3,623.95	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.656
5.00	-36.95	-38.31	0.00	-3,429.62	0.00	3,429.62	4,285.51	2,142.75	7,679.11	3,792.42	0.12	-0.22	0.640
10.00	-35.27	-37.76	0.00	-3,238.06	0.00	3,238.06	4,218.97	2,109.49	7,373.27	3,641.38	0.47	-0.45	0.623
15.00	-33.61	-37.22	0.00	-3,049.24	0.00	3,049.24	4,150.52	2,075.26	7,070.06	3,491.64	1.06	-0.67	0.605
20.00	-31.97	-36.68	0.00	-2,863.15	0.00	2,863.15	4,080.16	2,040.08	6,769.73	3,343.32	1.89	-0.90	0.587
25.00	-30.36	-36.15	0.00	-2,679.75	0.00	2,679.75	4,007.88	2,003.94	6,472.54	3,196.54	2.96	-1.13	0.568
30.00	-28.78	-35.62	0.00	-2,499.02	0.00	2,499.02	3,933.69	1,966.85	6,178.73	3,051.44	4.26	-1.35	0.549
35.00	-27.23	-35.06	0.00	-2,320.94	0.00	2,320.94	3,854.52	1,927.26	5,883.88	2,905.83	5.80	-1.58	0.528
40.00	-25.77	-34.45	0.00	-2,145.61	0.00	2,145.61	3,744.12	1,872.06	5,549.75	2,740.81	7.58	-1.81	0.511
40.24	-25.64	-34.47	0.00	-2,137.22	0.00	2,137.22	3,738.74	1,869.37	5,533.72	2,732.90	7.67	-1.82	0.510
45.00	-23.64	-33.83	0.00	-1,973.29	0.00	1,973.29	3,633.72	1,816.86	5,225.39	2,580.62	9.59	-2.03	0.485
45.40	-23.41	-33.80	0.00	-1,959.76	0.00	1,959.76	3,063.79	1,531.89	4,506.32	2,225.50	9.76	-2.05	0.541
50.00	-22.15	-32.99	0.00	-1,804.27	0.00	1,804.27	3,008.67	1,504.34	4,302.82	2,125.00	11.84	-2.25	0.514
55.00	-20.87	-32.05	0.00	-1,639.34	0.00	1,639.34	2,946.93	1,473.46	4,084.17	2,017.02	14.32	-2.48	0.483
55.68	-20.65	-31.96	0.00	-1,617.64	0.00	1,617.64	2,938.42	1,469.21	4,054.78	2,002.51	14.67	-2.51	0.479
55.68	-20.65	-31.96	0.00	-1,617.64	0.00	1,617.64	2,938.42	1,469.21	4,054.78	2,002.51	14.67	-2.51	0.815
60.00	-19.76	-31.23	0.00	-1,479.46	0.00	1,479.46	2,883.27	1,441.64	3,868.42	1,910.47	17.04	-2.70	0.782
65.00	-18.73	-30.40	0.00	-1,323.32	0.00	1,323.32	2,808.41	1,404.21	3,643.77	1,799.52	20.07	-3.08	0.743
70.00	-17.70	-29.78	0.00	-1,171.34	0.00	1,171.34	2,713.79	1,356.89	3,400.96	1,679.60	23.48	-3.44	0.704
75.00	-16.72	-29.22	0.00	-1,022.43	0.00	1,022.43	2,619.16	1,309.58	3,166.52	1,563.83	27.28	-3.80	0.661
80.00	-15.79	-28.21	0.00	-876.34	0.00	876.34	2,524.53	1,262.26	2,940.46	1,452.18	31.44	-4.14	0.610
80.75	-15.60	-28.12	0.00	-855.23	0.00	855.23	2,510.36	1,255.18	2,907.34	1,435.82	32.10	-4.20	0.602
84.90	-14.64	-27.37	0.00	-738.51	0.00	738.51	1,500.18	750.09	1,728.96	853.87	35.86	-4.47	0.876
85.00	-14.52	-27.41	0.00	-735.76	0.00	735.76	1,499.54	749.77	1,726.89	852.85	35.96	-4.47	0.874
90.00	-11.70	-23.33	0.00	-598.72	0.00	598.72	1,466.64	733.32	1,624.12	802.09	40.87	-4.90	0.755
95.00	-11.06	-22.77	0.00	-482.10	0.00	482.10	1,431.82	715.91	1,522.23	751.77	46.21	-5.28	0.650
100.00	-8.70	-17.69	0.00	-368.24	0.00	368.24	1,395.09	697.54	1,421.47	702.01	51.93	-5.63	0.531
105.00	-8.21	-17.13	0.00	-279.80	0.00	279.80	1,356.44	678.22	1,322.10	652.93	57.97	-5.92	0.435
110.00	-6.01	-12.53	0.00	-194.13	0.00	194.13	1,315.88	657.94	1,224.36	604.67	64.31	-6.17	0.326
115.00	-5.63	-12.00	0.00	-131.46	0.00	131.46	1,273.40	636.70	1,128.51	557.33	70.87	-6.37	0.241
120.00	-2.99	-6.26	0.00	-71.47	0.00	71.47	1,215.41	607.71	1,023.36	505.40	77.60	-6.51	0.144
125.00	-2.70	-5.75	0.00	-40.17	0.00	40.17	1,152.33	576.16	919.28	454.00	84.45	-6.60	0.091
125.80	-2.66	-5.67	0.00	-35.57	0.00	35.57	1,142.23	571.11	903.13	446.02	85.56	-6.61	0.082
125.80	-2.66	-5.67	0.00	-35.57	0.00	35.57	385.02	192.51	160.54	106.00	85.56	-6.61	0.343
130.00	-2.43	-5.52	0.00	-11.75	0.00	11.75	385.02	192.51	160.54	106.00	91.38	-6.65	0.118
131.00	-0.41	-0.78	0.00	-6.23	0.00	6.23	385.02	192.51	160.54	106.00	92.77	-6.66	0.060
135.00	-0.26	-0.64	0.00	-3.12	0.00	3.12	385.02	192.51	160.54	106.00	98.35	-6.69	0.030
136.00	-0.20	-0.21	0.00	-0.97	0.00	0.97	385.02	192.51	160.54	106.00	99.75	-6.70	0.010
140.00	-0.07	-0.07	0.00	-0.14	0.00	0.14	385.02	192.51	160.54	106.00	105.35	-6.70	0.001
142.00	0.00	-0.06	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	108.15	-6.70	0.000

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)

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<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	24 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

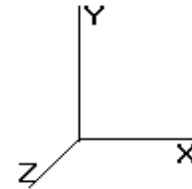
### Shaft Segment Forces (Factored)

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	4.256	4.682	0.000	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	4.256	4.682	0.000	1.200	* 1.242	5.00	20.217	24.26	113.6	363.4	1,963.8
10.00		1.00	0.70	4.256	4.682	0.000	1.200	* 1.331	5.00	19.833	23.80	111.4	381.0	1,950.9
15.00		1.00	0.70	4.256	4.682	0.000	1.200	* 1.386	5.00	19.420	23.30	109.1	387.7	1,927.0
20.00		1.00	0.70	4.256	4.682	0.000	1.200	* 1.427	5.00	18.995	22.79	106.7	389.6	1,898.3
25.00		1.00	0.70	4.256	4.682	0.000	1.200	* 1.459	5.00	18.563	22.28	104.3	388.6	1,866.7
30.00		1.00	0.70	4.260	4.686	0.000	1.200	* 1.486	5.00	18.127	21.75	101.9	385.8	1,833.3
35.00		1.00	0.73	4.451	4.897	0.000	1.200	* 1.509	5.00	17.688	21.23	103.9	381.6	1,798.5
40.00		1.00	0.76	4.625	5.087	0.000	1.200	* 1.529	5.00	17.246	20.70	105.3	376.4	1,762.7
40.24	Bot - Section 2	1.00	0.76	4.633	5.096	0.000	1.200	* 1.530	0.24	0.829	0.99	5.1	18.3	85.1
45.00		1.00	0.78	4.783	5.261	0.000	1.200	* 1.547	4.76	16.281	19.54	102.8	359.4	2,500.0
45.40	Top - Section 1	1.00	0.78	4.795	5.274	0.000	1.200	* 1.549	0.40	1.350	1.62	8.5	30.2	207.8
50.00		1.00	0.81	4.929	5.422	0.000	1.200	* 1.564	4.60	15.330	18.40	99.7	341.6	1,448.0
55.00		1.00	0.83	5.065	5.572	0.000	1.200	* 1.579	5.00	16.235	19.48	108.5	364.1	1,541.5
55.68	Reinf. Top	1.00	0.83	5.083	5.591	0.000	1.200	* 1.581	0.68	2.163	2.60	14.5	49.2	206.6
60.00		1.00	0.85	5.193	5.712	0.000	1.200	* 1.592	4.32	13.623	16.35	93.4	308.2	1,013.2
65.00		1.00	0.87	5.313	5.844	0.000	1.200	* 1.605	5.00	15.340	18.41	107.6	348.3	1,139.3
70.00	Appertunance(s)	1.00	0.89	5.426	5.969	0.000	1.200	* 1.617	5.00	14.891	17.87	106.7	339.9	1,104.7
75.00		1.00	0.91	5.534	6.088	0.000	1.200	* 1.628	5.00	14.442	17.33	105.5	331.2	1,069.7
80.00	Appertunance(s)	1.00	0.92	5.637	6.201	0.000	1.200	* 1.639	5.00	13.992	16.79	104.1	322.1	1,034.5
80.75	Bot - Section 3	1.00	0.93	5.652	6.218	0.000	1.200	* 1.640	0.75	2.055	2.47	15.3	48.0	152.4
84.90	Top - Section 2	1.00	0.94	5.734	6.307	0.000	1.200	* 1.649	4.15	11.397	13.68	86.3	264.3	1,219.9
85.00		1.00	0.94	5.736	6.309	0.000	1.200	* 1.649	0.10	0.272	0.33	2.1	6.4	15.6
90.00	Appertunance(s)	1.00	0.95	5.830	6.413	0.000	1.200	* 1.658	5.00	13.307	15.97	102.4	308.7	758.9
95.00		1.00	0.97	5.921	6.513	0.000	1.200	* 1.667	5.00	12.856	15.43	100.5	298.9	731.7
100.0	Appertunance(s)	1.00	0.98	6.008	6.609	0.000	1.200	* 1.676	5.00	12.404	14.88	98.4	289.0	704.3
105.0		1.00	1.00	6.093	6.702	0.000	1.200	* 1.684	5.00	11.952	14.34	96.1	278.9	676.7
110.0	Appertunance(s)	1.00	1.01	6.174	6.792	0.000	1.200	* 1.692	5.00	11.500	13.80	93.7	268.6	649.0
115.0		1.00	1.02	6.253	6.879	0.000	1.200	* 1.699	5.00	11.048	13.26	91.2	258.2	621.1
120.0	Appertunance(s)	1.00	1.04	6.330	6.963	0.000	1.200	* 1.707	5.00	10.595	12.71	88.5	247.6	593.0
125.0		1.00	1.05	6.404	7.044	0.000	1.200	* 1.714	5.00	10.142	12.17	85.7	236.9	564.8
125.8	Top - Section 3	1.00	1.05	6.416	7.057	0.000	1.200	* 1.715	0.80	1.581	1.90	13.4	37.6	88.5
130.0		1.00	1.06	6.476	7.124	0.000	1.200	* 1.720	4.20	4.966	5.96	42.5	110.0	319.6
131.0	Appertunance(s)	1.00	1.06	6.490	7.139	0.000	1.200	* 1.722	1.00	1.183	1.42	10.1	26.2	76.1
135.0		1.00	1.07	6.546	7.201	0.000	1.200	* 1.727	4.00	4.735	5.68	40.9	105.2	304.9
136.0	Appertunance(s)	1.00	1.07	6.560	7.216	0.000	1.200	* 1.728	1.00	1.184	1.42	10.3	26.3	76.2
140.0		1.00	1.08	6.615	7.276	0.000	1.200	* 1.733	4.00	4.739	5.69	41.4	105.7	305.3
142.0		1.00	1.09	6.642	7.306	0.000	1.200	* 1.736	2.00	2.370	2.84	20.8	52.9	152.7
								<b>Totals:</b>	142.00			2,752.2	8,836.1	34,362.3

\* = Cf Adjusted By Linear Load Ra Effect

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



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<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	24 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

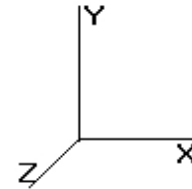
**Discrete Appurtenance Segment Forces (Factored)**

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orientation Factor	Ka	Total EPAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
70.00	PCTEL GPS-TMG-HR-	1	5.426	5.969	1.00	1.00	0.26	0.000	0.000	1.54	0.00	0.00	10.11
70.00	Stand-Off	1	5.426	5.969	1.00	1.00	1.49	0.000	0.000	8.86	0.00	0.00	29.58
80.00	Diamond X50A	2	5.637	6.201	1.00	1.00	4.86	0.000	0.000	30.15	0.00	0.00	115.34
80.00	Stand-Offs	2	5.637	6.201	1.00	1.00	8.95	0.000	0.000	55.50	0.00	0.00	265.89
90.00	Flat Platform w/ Han	1	5.830	6.413	0.90	1.00	56.13	0.000	0.000	359.99	0.00	0.00	3,303.16
90.00	RFS ATMAA1412D-	4	5.830	6.413	0.50	0.75	2.11	0.000	0.000	13.55	0.00	0.00	193.63
90.00	Ericsson AIR 21, 1.3	4	5.830	6.413	0.71	0.75	15.10	0.000	0.000	96.85	0.00	0.00	1,034.70
90.00	Ericsson AIR 21, 1.3	3	5.830	6.413	0.70	0.75	11.24	0.000	0.000	72.07	0.00	0.00	770.49
100.0	Flat Platform w/ Han	1	6.008	6.609	0.90	1.00	56.32	0.000	0.000	372.25	0.00	0.00	3,317.50
100.0	Rymosa MGD3-800TX	3	6.008	6.609	0.82	0.75	7.82	0.000	0.000	51.67	0.00	0.00	303.27
100.0	Allgon P65-16-XL-2	3	6.008	6.609	0.75	0.75	15.82	0.000	0.000	104.55	0.00	0.00	638.08
100.0	RFS FD9R6004/1C-3L	6	6.008	6.609	0.50	0.75	1.28	0.000	0.000	8.46	0.00	0.00	96.35
100.0	Alcatel-Lucent RRH2x	3	6.008	6.609	0.50	0.75	3.12	0.000	0.000	20.64	0.00	0.00	368.03
100.0	RFS DB-T1-6Z-8AB-0Z	1	6.008	6.609	1.00	0.75	4.23	0.000	0.000	27.94	0.00	0.00	184.26
100.0	Antel BXA-70080/6CF	3	6.008	6.609	0.88	0.75	13.93	0.000	0.000	92.04	0.00	0.00	496.30
100.0	Antel BXA-171063/12C	3	6.008	6.609	0.72	0.75	9.62	0.000	0.000	63.56	0.00	0.00	396.25
100.0	GPS	1	6.008	6.609	0.50	0.75	0.35	0.000	0.000	2.28	0.00	0.00	48.47
110.0	Flat Platform w/ Han	1	6.174	6.792	0.90	1.00	56.50	0.000	0.000	383.71	0.00	0.00	3,330.59
110.0	72" x 12" Panel	3	6.174	6.792	0.67	0.75	14.15	0.000	0.000	96.11	0.00	0.00	716.01
110.0	48" x 12" Panel	9	6.174	6.792	0.66	0.75	26.82	0.000	0.000	182.14	0.00	0.00	1,479.51
120.0	Flat Platform w/ Han	1	6.330	6.963	1.00	1.00	62.95	0.000	0.000	438.31	0.00	0.00	3,342.66
120.0	NextNet BTS-2500	3	6.330	6.963	0.50	0.75	2.68	0.000	0.000	18.67	0.00	0.00	294.60
120.0	DragonWave A-ANT-	2	6.330	6.963	0.90	0.75	8.02	0.000	0.000	55.82	0.00	0.00	200.30
120.0	DragonWave Horizon	2	6.330	6.963	0.50	0.75	0.49	0.000	0.000	3.41	0.00	0.00	84.11
120.0	Argus LLPX310R	3	6.330	6.963	0.73	0.75	8.49	0.000	0.000	59.10	0.00	0.00	417.68
120.0	RFS APXVSP18-C-	3	6.330	6.963	0.69	0.75	14.41	0.000	0.000	100.36	0.00	0.00	788.54
120.0	Alcatel-Lucent 1900	3	6.330	6.963	0.50	0.75	3.35	0.000	0.000	23.32	0.00	0.00	493.83
120.0	Alcatel-Lucent 800 M	3	6.330	6.963	0.50	0.75	2.97	0.000	0.000	20.69	0.00	0.00	495.48
120.0	Alcatel-Lucent TD-RR	3	6.330	6.963	0.50	0.75	6.39	0.000	0.000	44.48	0.00	0.00	442.06
120.0	RFS APXV9TM14-ALU-	3	6.330	6.963	0.78	0.75	12.40	0.000	0.000	86.34	0.00	0.00	665.81
131.0	Flat Platform w/ Han	1	6.490	7.139	1.00	1.00	63.13	0.000	0.000	450.73	0.00	0.00	3,354.92
131.0	Powerwave 7770	6	6.490	7.139	0.65	0.75	19.14	0.000	0.000	136.67	0.00	0.00	1,049.16
131.0	Powerwave LGP21401	6	6.490	7.139	0.50	0.75	3.50	0.000	0.000	25.01	0.00	0.00	299.65
131.0	Powerwave LGP219nn	6	6.490	7.139	0.50	0.75	0.96	0.000	0.000	6.83	0.00	0.00	113.67
131.0	Powerwave P65-16-	3	6.490	7.139	0.67	0.75	14.19	0.000	0.000	101.28	0.00	0.00	756.51
131.0	Ericsson RRUS 11 (Ba	6	6.490	7.139	0.50	0.75	7.21	0.000	0.000	51.48	0.00	0.00	796.92
131.0	Raycap DC6-48-60-18-	1	6.490	7.139	1.00	0.75	2.13	0.000	0.000	15.23	0.00	0.00	129.58
136.0	Kathrein 742-218 / A	3	6.615	7.276	0.73	0.80	8.34	0.000	4.000	60.71	0.00	242.86	345.16
136.0	Generic RCU	3	6.560	7.216	0.50	0.80	0.43	0.000	0.000	3.11	0.00	0.00	33.65
										3,745.42			31,201.80



Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



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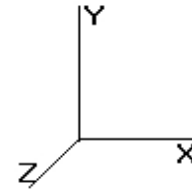
<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	24 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

**Linear Appurtenance Segment Forces (Factored)**

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	FX (lb)	Dead Load (lb)
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	1.86	0.00	4.256	0.161	1.182	0.00	106.14
5.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.161	1.182	0.00	12.11
5.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.161	1.182	0.00	17.64
5.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.161	1.182	0.00	45.18
5.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.161	1.182	0.00	20.42
5.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.161	1.182	0.00	22.41
5.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	2.69	0.00	4.256	0.161	1.182	0.00	235.09
5.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.161	1.182	0.00	17.64
5.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	1.64	0.00	4.256	0.161	1.182	0.00	68.16
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	1.93	0.00	4.256	0.165	1.194	0.00	111.66
10.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.165	1.194	0.00	13.66
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.165	1.194	0.00	19.48
10.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.165	1.194	0.00	47.41
10.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.165	1.194	0.00	22.48
10.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.165	1.194	0.00	24.25
10.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	2.76	0.00	4.256	0.165	1.194	0.00	246.10
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.165	1.194	0.00	19.48
10.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	1.72	0.00	4.256	0.165	1.194	0.00	73.03
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	1.98	0.00	4.256	0.169	1.206	0.00	115.12
15.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.169	1.206	0.00	14.67
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.169	1.206	0.00	20.66
15.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.169	1.206	0.00	48.83
15.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.169	1.206	0.00	23.80
15.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.169	1.206	0.00	25.43
15.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	2.81	0.00	4.256	0.169	1.206	0.00	252.95
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.169	1.206	0.00	20.66
15.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	1.76	0.00	4.256	0.169	1.206	0.00	76.08
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.01	0.00	4.256	0.173	1.219	0.00	117.68
20.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.173	1.219	0.00	15.44
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.173	1.219	0.00	21.56
20.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.173	1.219	0.00	49.90
20.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.173	1.219	0.00	24.79
20.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.173	1.219	0.00	26.32
20.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	2.84	0.00	4.256	0.173	1.219	0.00	258.01
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.173	1.219	0.00	21.56
20.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	1.80	0.00	4.256	0.173	1.219	0.00	78.35
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.04	0.00	4.256	0.178	1.233	0.00	119.74
25.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.178	1.233	0.00	16.06
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.178	1.233	0.00	22.28
25.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.178	1.233	0.00	50.77
25.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.178	1.233	0.00	25.59
25.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.178	1.233	0.00	27.05
25.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	2.87	0.00	4.256	0.178	1.233	0.00	262.05
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.178	1.233	0.00	22.28
25.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	1.82	0.00	4.256	0.178	1.233	0.00	80.17
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.06	0.00	4.260	0.183	1.248	0.00	121.46
30.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.260	0.183	1.248	0.00	16.59
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.260	0.183	1.248	0.00	22.90
30.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	4.260	0.183	1.248	0.00	51.50
30.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.260	0.183	1.248	0.00	26.27
30.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	4.260	0.183	1.248	0.00	27.66

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



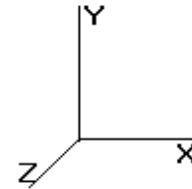
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<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	24 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

30.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	2.89	0.00	4.260	0.183	1.248	0.00	265.43
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.260	0.183	1.248	0.00	22.90
30.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	1.85	0.00	4.260	0.183	1.248	0.00	81.70
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.08	0.00	4.451	0.188	1.263	0.00	122.95
35.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.451	0.188	1.263	0.00	17.05
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.451	0.188	1.263	0.00	23.43
35.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	4.451	0.188	1.263	0.00	52.14
35.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.451	0.188	1.263	0.00	26.87
35.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	4.451	0.188	1.263	0.00	28.19
35.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	2.91	0.00	4.451	0.188	1.263	0.00	268.34
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.451	0.188	1.263	0.00	23.43
35.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	1.87	0.00	4.451	0.188	1.263	0.00	83.02
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.10	0.00	4.625	0.193	1.279	0.00	124.26
40.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.625	0.193	1.279	0.00	17.46
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.625	0.193	1.279	0.00	23.91
40.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	4.625	0.193	1.279	0.00	52.70
40.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.625	0.193	1.279	0.00	27.39
40.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	4.625	0.193	1.279	0.00	28.67
40.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	2.92	0.00	4.625	0.193	1.279	0.00	270.90
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.625	0.193	1.279	0.00	23.91
40.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	1.88	0.00	4.625	0.193	1.279	0.00	84.18
40.24	(6) 1 5/8" Coax	Yes	0.24	0.000	1.98	0.10	0.00	4.633	0.196	1.288	0.00	6.06
40.24	(1) 3/8" Coax	Yes	0.24	0.000	0.00	0.00	0.00	4.633	0.196	1.288	0.00	0.85
40.24	(2) 1/2" Coax	Yes	0.24	0.000	0.00	0.00	0.00	4.633	0.196	1.288	0.00	1.17
40.24	(1) 2" Conduit	Yes	0.24	0.000	0.00	0.00	0.00	4.633	0.196	1.288	0.00	2.57
40.24	(6) 5/16" Coax	Yes	0.24	0.000	0.00	0.00	0.00	4.633	0.196	1.288	0.00	1.34
40.24	(1) 1 1/4" Fiber	Yes	0.24	0.000	0.00	0.00	0.00	4.633	0.196	1.288	0.00	1.40
40.24	(14) 1 5/8" Coax	Yes	0.24	0.000	3.96	0.14	0.00	4.633	0.196	1.288	0.00	13.21
40.24	(2) 1/2" Coax	Yes	0.24	0.000	0.00	0.00	0.00	4.633	0.196	1.288	0.00	1.17
40.24	(4) DYWIDAG	Yes	0.24	0.000	1.46	0.09	0.00	4.633	0.196	1.288	0.00	4.10
45.00	(6) 1 5/8" Coax	Yes	4.76	0.000	1.98	2.01	0.00	4.783	0.199	1.297	0.00	119.33
45.00	(1) 3/8" Coax	Yes	4.76	0.000	0.00	0.00	0.00	4.783	0.199	1.297	0.00	16.96
45.00	(2) 1/2" Coax	Yes	4.76	0.000	0.00	0.00	0.00	4.783	0.199	1.297	0.00	23.15
45.00	(1) 2" Conduit	Yes	4.76	0.000	0.00	0.00	0.00	4.783	0.199	1.297	0.00	50.62
45.00	(6) 5/16" Coax	Yes	4.76	0.000	0.00	0.00	0.00	4.783	0.199	1.297	0.00	26.51
45.00	(1) 1 1/4" Fiber	Yes	4.76	0.000	0.00	0.00	0.00	4.783	0.199	1.297	0.00	27.68
45.00	(14) 1 5/8" Coax	Yes	4.76	0.000	3.96	2.80	0.00	4.783	0.199	1.297	0.00	259.88
45.00	(2) 1/2" Coax	Yes	4.76	0.000	0.00	0.00	0.00	4.783	0.199	1.297	0.00	23.15
45.00	(4) DYWIDAG	Yes	4.76	0.000	1.46	1.81	0.00	4.783	0.199	1.297	0.00	81.07
45.40	(6) 1 5/8" Coax	Yes	0.40	1.200	1.98	0.17	0.20	4.795	0.202	0.000	1.07	10.04
45.40	(1) 3/8" Coax	Yes	0.40	0.000	0.00	0.00	0.00	4.795	0.202	0.000	0.00	1.43
45.40	(2) 1/2" Coax	Yes	0.40	0.000	0.00	0.00	0.00	4.795	0.202	0.000	0.00	1.95
45.40	(1) 2" Conduit	Yes	0.40	0.000	0.00	0.00	0.00	4.795	0.202	0.000	0.00	4.26
45.40	(6) 5/16" Coax	Yes	0.40	0.000	0.00	0.00	0.00	4.795	0.202	0.000	0.00	2.23
45.40	(1) 1 1/4" Fiber	Yes	0.40	0.000	0.00	0.00	0.00	4.795	0.202	0.000	0.00	2.33
45.40	(14) 1 5/8" Coax	Yes	0.40	1.200	3.96	0.24	0.28	4.795	0.202	0.000	1.49	21.86
45.40	(2) 1/2" Coax	Yes	0.40	0.000	0.00	0.00	0.00	4.795	0.202	0.000	0.00	1.95
45.40	(4) DYWIDAG	Yes	0.40	1.200	1.46	0.15	0.18	4.795	0.202	0.000	0.96	6.82
50.00	(6) 1 5/8" Coax	Yes	4.60	1.200	1.98	1.96	2.35	4.929	0.201	0.000	12.74	116.39
50.00	(1) 3/8" Coax	Yes	4.60	0.000	0.00	0.00	0.00	4.929	0.201	0.000	0.00	16.72
50.00	(2) 1/2" Coax	Yes	4.60	0.000	0.00	0.00	0.00	4.929	0.201	0.000	0.00	22.75
50.00	(1) 2" Conduit	Yes	4.60	0.000	0.00	0.00	0.00	4.929	0.201	0.000	0.00	49.38
50.00	(6) 5/16" Coax	Yes	4.60	0.000	0.00	0.00	0.00	4.929	0.201	0.000	0.00	26.03
50.00	(1) 1 1/4" Fiber	Yes	4.60	0.000	0.00	0.00	0.00	4.929	0.201	0.000	0.00	27.13
50.00	(14) 1 5/8" Coax	Yes	4.60	1.200	3.96	2.72	3.26	4.929	0.201	0.000	17.68	253.25
50.00	(2) 1/2" Coax	Yes	4.60	0.000	0.00	0.00	0.00	4.929	0.201	0.000	0.00	22.75
50.00	(4) DYWIDAG	Yes	4.60	1.200	1.46	1.76	2.11	4.929	0.201	0.000	11.44	79.28

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



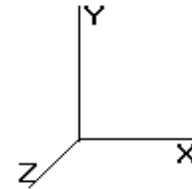
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<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	24 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

55.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	2.14	2.57	5.065	0.207	0.000	14.31	127.49
55.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.065	0.207	0.000	0.00	18.48
55.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.065	0.207	0.000	0.00	25.09
55.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	5.065	0.207	0.000	0.00	54.10
55.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.065	0.207	0.000	0.00	28.69
55.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	5.065	0.207	0.000	0.00	29.85
55.00	(14) 1 5/8" Coax	Yes	5.00	1.200	3.96	2.97	3.56	5.065	0.207	0.000	19.83	277.17
55.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.065	0.207	0.000	0.00	25.09
55.00	(4) DYWIDAG	Yes	5.00	1.200	1.46	1.92	2.31	5.065	0.207	0.000	12.86	87.05
55.68	(6) 1 5/8" Coax	Yes	0.68	1.200	1.98	0.29	0.35	5.083	0.210	0.000	1.95	17.28
55.68	(1) 3/8" Coax	Yes	0.68	0.000	0.00	0.00	0.00	5.083	0.210	0.000	0.00	2.51
55.68	(2) 1/2" Coax	Yes	0.68	0.000	0.00	0.00	0.00	5.083	0.210	0.000	0.00	3.40
55.68	(1) 2" Conduit	Yes	0.68	0.000	0.00	0.00	0.00	5.083	0.210	0.000	0.00	7.33
55.68	(6) 5/16" Coax	Yes	0.68	0.000	0.00	0.00	0.00	5.083	0.210	0.000	0.00	3.89
55.68	(1) 1 1/4" Fiber	Yes	0.68	0.000	0.00	0.00	0.00	5.083	0.210	0.000	0.00	4.05
55.68	(14) 1 5/8" Coax	Yes	0.68	1.200	3.96	0.40	0.48	5.083	0.210	0.000	2.70	37.56
55.68	(2) 1/2" Coax	Yes	0.68	0.000	0.00	0.00	0.00	5.083	0.210	0.000	0.00	3.40
55.68	(4) DYWIDAG	Yes	0.68	1.200	1.46	0.26	0.31	5.083	0.210	0.000	1.75	11.80
60.00	(6) 1 5/8" Coax	Yes	4.32	1.200	1.98	1.86	2.23	5.193	0.214	0.000	12.75	111.01
60.00	(1) 3/8" Coax	Yes	4.32	0.000	0.00	0.00	0.00	5.193	0.214	0.000	0.00	16.23
60.00	(2) 1/2" Coax	Yes	4.32	0.000	0.00	0.00	0.00	5.193	0.214	0.000	0.00	21.98
60.00	(1) 2" Conduit	Yes	4.32	0.000	0.00	0.00	0.00	5.193	0.214	0.000	0.00	47.11
60.00	(6) 5/16" Coax	Yes	4.32	0.000	0.00	0.00	0.00	5.193	0.214	0.000	0.00	25.13
60.00	(1) 1 1/4" Fiber	Yes	4.32	0.000	0.00	0.00	0.00	5.193	0.214	0.000	0.00	26.10
60.00	(14) 1 5/8" Coax	Yes	4.32	1.200	3.96	2.57	3.09	5.193	0.214	0.000	17.64	241.16
60.00	(2) 1/2" Coax	Yes	4.32	0.000	0.00	0.00	0.00	5.193	0.214	0.000	0.00	21.98
60.00	(4) DYWIDAG	Yes	4.32	1.200	1.46	1.67	2.01	5.193	0.214	0.000	11.47	75.95
65.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	2.16	2.60	5.313	0.203	0.000	15.17	129.23
65.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.313	0.203	0.000	0.00	19.05
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.313	0.203	0.000	0.00	25.74
65.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	5.313	0.203	0.000	0.00	54.86
65.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.313	0.203	0.000	0.00	29.41
65.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	5.313	0.203	0.000	0.00	30.50
65.00	(14) 1 5/8" Coax	Yes	5.00	1.200	3.96	2.99	3.59	5.313	0.203	0.000	20.95	280.56
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.313	0.203	0.000	0.00	25.74
65.00	(4) DYWIDAG	Yes	3.00	1.200	1.46	1.17	1.40	5.313	0.203	0.000	8.19	53.16
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.17	0.00	5.426	0.183	1.248	0.00	130.02
70.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.426	0.183	1.248	0.00	19.30
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.426	0.183	1.248	0.00	26.03
70.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	5.426	0.183	1.248	0.00	55.21
70.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.426	0.183	1.248	0.00	29.73
70.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	5.426	0.183	1.248	0.00	30.79
70.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.00	0.00	5.426	0.183	1.248	0.00	282.08
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.426	0.183	1.248	0.00	26.03
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.18	0.00	5.534	0.189	1.267	0.00	130.76
75.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.534	0.189	1.267	0.00	19.54
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.534	0.189	1.267	0.00	26.31
75.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	5.534	0.189	1.267	0.00	55.53
75.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.534	0.189	1.267	0.00	30.03
75.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	5.534	0.189	1.267	0.00	31.06
75.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.01	0.00	5.534	0.189	1.267	0.00	283.51
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.534	0.189	1.267	0.00	26.31
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.19	0.00	5.637	0.196	1.288	0.00	131.46
80.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.637	0.196	1.288	0.00	19.77
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.637	0.196	1.288	0.00	26.57
80.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	5.637	0.196	1.288	0.00	55.84
80.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.637	0.196	1.288	0.00	30.32

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev: 0.000 (ft)



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**Load Case:** 1.2D + 1.0Di + 1.0Wi      50.00 mph with 0.75 in Radial Ice      24 Iterations

Gust Response Factor : 1.10      Ice Dead Load Factor : 1.00      Wind Importance Factor : 1.00  
 Dead Load Factor : 1.20      Ice Importance Factor : 1.00

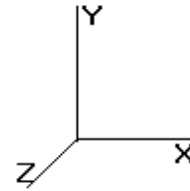
Wind Load Factor : 1.00

80.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	5.637	0.196	1.288	0.00	31.33
80.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.02	0.00	5.637	0.196	1.288	0.00	284.85
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.637	0.196	1.288	0.00	26.57
80.75	(6) 1 5/8" Coax	Yes	0.75	1.200	1.98	0.33	0.39	5.652	0.200	0.000	2.45	19.69
80.75	(1) 3/8" Coax	Yes	0.75	0.000	0.00	0.00	0.00	5.652	0.200	0.000	0.00	2.96
80.75	(2) 1/2" Coax	Yes	0.75	0.000	0.00	0.00	0.00	5.652	0.200	0.000	0.00	3.98
80.75	(1) 2" Conduit	Yes	0.75	0.000	0.00	0.00	0.00	5.652	0.200	0.000	0.00	8.37
80.75	(6) 5/16" Coax	Yes	0.75	0.000	0.00	0.00	0.00	5.652	0.200	0.000	0.00	4.55
80.75	(1) 1 1/4" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	5.652	0.200	0.000	0.00	4.70
80.75	(14) 1 5/8" Coax	Yes	0.75	1.200	3.96	0.45	0.54	5.652	0.200	0.000	3.37	42.67
84.90	(6) 1 5/8" Coax	Yes	4.15	1.200	1.98	1.83	2.19	5.734	0.204	0.000	13.82	109.67
84.90	(1) 3/8" Coax	Yes	4.15	0.000	0.00	0.00	0.00	5.734	0.204	0.000	0.00	16.59
84.90	(2) 1/2" Coax	Yes	4.15	0.000	0.00	0.00	0.00	5.734	0.204	0.000	0.00	22.26
84.90	(1) 2" Conduit	Yes	4.15	0.000	0.00	0.00	0.00	5.734	0.204	0.000	0.00	46.60
84.90	(6) 5/16" Coax	Yes	4.15	0.000	0.00	0.00	0.00	5.734	0.204	0.000	0.00	25.40
84.90	(1) 1 1/4" Fiber	Yes	4.15	0.000	0.00	0.00	0.00	5.734	0.204	0.000	0.00	26.21
84.90	(14) 1 5/8" Coax	Yes	4.15	1.200	3.96	2.51	3.01	5.734	0.204	0.000	19.00	237.53
85.00	(6) 1 5/8" Coax	Yes	0.10	1.200	1.98	0.04	0.05	5.736	0.204	0.000	0.33	2.65
85.00	(1) 3/8" Coax	Yes	0.10	0.000	0.00	0.00	0.00	5.736	0.204	0.000	0.00	0.40
85.00	(2) 1/2" Coax	Yes	0.10	0.000	0.00	0.00	0.00	5.736	0.204	0.000	0.00	0.54
85.00	(1) 2" Conduit	Yes	0.10	0.000	0.00	0.00	0.00	5.736	0.204	0.000	0.00	1.13
85.00	(6) 5/16" Coax	Yes	0.10	0.000	0.00	0.00	0.00	5.736	0.204	0.000	0.00	0.61
85.00	(1) 1 1/4" Fiber	Yes	0.10	0.000	0.00	0.00	0.00	5.736	0.204	0.000	0.00	0.63
85.00	(14) 1 5/8" Coax	Yes	0.10	1.200	3.96	0.06	0.07	5.736	0.204	0.000	0.46	5.75
90.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	2.21	2.65	5.830	0.208	0.000	16.98	132.74
90.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.830	0.208	0.000	0.00	20.20
90.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.830	0.208	0.000	0.00	27.05
90.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	5.830	0.208	0.000	0.00	56.41
90.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.830	0.208	0.000	0.00	30.86
90.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	5.830	0.208	0.000	0.00	31.81
90.00	(14) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.03	3.64	5.830	0.208	0.000	23.33	287.34
95.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.21	0.00	5.921	0.072	0.000	0.00	133.34
95.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.921	0.072	0.000	0.00	20.39
95.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.921	0.072	0.000	0.00	27.28
95.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	5.921	0.072	0.000	0.00	56.68
95.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.921	0.072	0.000	0.00	31.10
100.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.22	0.00	6.008	0.075	0.000	0.00	133.91
100.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.008	0.075	0.000	0.00	20.58
100.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.008	0.075	0.000	0.00	27.50
100.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.008	0.075	0.000	0.00	56.93
100.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.008	0.075	0.000	0.00	31.34
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.23	0.00	6.093	0.078	0.000	0.00	134.46
105.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.093	0.078	0.000	0.00	20.77
105.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.093	0.078	0.000	0.00	27.71
105.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.093	0.078	0.000	0.00	57.18
105.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.093	0.078	0.000	0.00	31.57
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.23	0.00	6.174	0.082	0.000	0.00	134.98
110.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.174	0.082	0.000	0.00	20.94
110.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.174	0.082	0.000	0.00	27.91
110.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.174	0.082	0.000	0.00	57.41
110.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.174	0.082	0.000	0.00	31.79
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.24	0.00	6.253	0.086	0.000	0.00	135.49
115.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.253	0.086	0.000	0.00	21.11
115.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.253	0.086	0.000	0.00	28.10
115.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.253	0.086	0.000	0.00	57.64
115.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.253	0.086	0.000	0.00	32.00
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.25	0.00	6.330	0.090	0.000	0.00	135.98

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)

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**Load Case:** 1.2D + 1.0Di + 1.0Wi      50.00 mph with 0.75 in Radial Ice      24 Iterations

Gust Response Factor : 1.10      Ice Dead Load Factor : 1.00      Wind Importance Factor : 1.00  
 Dead Load Factor : 1.20      Ice Importance Factor : 1.00

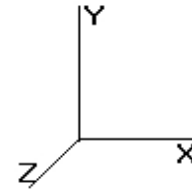
Wind Load Factor : 1.00

120.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.330	0.090	0.000	0.00	21.27
120.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.330	0.090	0.000	0.00	28.29
120.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.330	0.090	0.000	0.00	57.85
120.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.330	0.090	0.000	0.00	32.21
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.25	0.00	6.404	0.095	0.000	0.00	136.44
125.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.404	0.095	0.000	0.00	21.43
125.8	(6) 1 5/8" Coax	Yes	0.80	0.000	1.98	0.36	0.00	6.416	0.098	0.000	0.00	21.86
125.8	(1) 3/8" Coax	Yes	0.80	0.000	0.00	0.00	0.00	6.416	0.098	0.000	0.00	3.44
130.0	(6) 1 5/8" Coax	Yes	4.20	0.000	1.98	1.90	0.00	6.476	0.184	1.253	0.00	114.98
130.0	(1) 3/8" Coax	Yes	4.20	0.000	0.00	0.00	0.00	6.476	0.184	1.253	0.00	18.13
131.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.45	0.00	6.490	0.184	1.253	0.00	27.40
131.0	(1) 3/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.490	0.184	1.253	0.00	4.32
135.0	(6) 1 5/8" Coax	Yes	4.00	0.000	1.98	1.81	0.00	6.546	0.184	1.253	0.00	109.87
135.0	(1) 3/8" Coax	Yes	4.00	0.000	0.00	0.00	0.00	6.546	0.184	1.253	0.00	17.39
136.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.45	0.00	6.560	0.184	1.253	0.00	27.48
136.0	(1) 3/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.560	0.184	1.253	0.00	4.35
<b>Totals:</b>											<b>264.68</b>	<b>13,340.26</b>

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)

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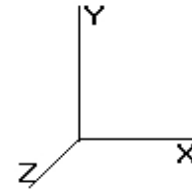
<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	24 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

### Applied Segment Forces Summary

Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	113.58	2,754.09	0.00	0.00
10.00	111.42	2,773.91	0.00	0.00
15.00	109.10	2,770.69	0.00	0.00
20.00	106.71	2,757.35	0.00	0.00
25.00	104.29	2,738.18	0.00	0.00
30.00	101.92	2,715.17	0.00	0.00
35.00	103.93	2,689.42	0.00	0.00
40.00	105.28	2,661.59	0.00	0.00
40.24	5.07	128.92	0.00	0.00
45.00	102.79	3,361.90	0.00	0.00
45.40	12.07	280.32	0.00	0.00
50.00	141.60	2,287.50	0.00	0.00
55.00	155.54	2,459.99	0.00	0.00
55.68	20.90	331.03	0.00	0.00
60.00	135.24	1,812.09	0.00	0.00
65.00	151.88	2,033.07	0.00	0.00
70.00	117.06	1,989.07	0.00	0.00
75.00	105.50	1,917.38	0.00	0.00
80.00	189.77	2,267.01	0.00	0.00
80.75	21.15	275.93	0.00	0.00
84.90	119.08	1,907.22	0.00	0.00
85.00	2.85	32.25	0.00	0.00
90.00	685.18	6,891.87	0.00	0.00
95.00	100.48	1,245.08	0.00	0.00
100.0	841.77	7,067.67	0.00	0.00
105.0	96.13	1,126.15	0.00	0.00
110.0	755.68	6,625.86	0.00	0.00
115.0	91.19	1,014.12	0.00	0.00
120.0	939.04	8,212.39	0.00	0.00
125.0	85.74	817.40	0.00	0.00
125.8	13.39	128.98	0.00	0.00
130.0	42.45	532.29	0.00	0.00
131.0	797.35	6,627.21	0.00	0.00
135.0	40.91	432.14	0.00	0.00
136.0	74.08	486.89	0.00	242.86
140.0	41.38	305.32	0.00	0.00
142.0	20.78	152.74	0.00	0.00
<b>Totals:</b>	<b>6,762.28</b>	<b>84,610.18</b>	<b>0.00</b>	<b>242.86</b>

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



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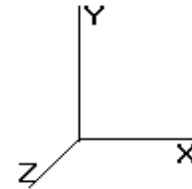
<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	24 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

**Calculated Forces**

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-84.61	-6.79	0.00	-673.48	0.00	673.48	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.135
5.00	-81.85	-6.74	0.00	-639.51	0.00	639.51	4,285.51	2,142.75	7,679.11	3,792.42	0.02	-0.04	0.132
10.00	-79.07	-6.68	0.00	-605.82	0.00	605.82	4,218.97	2,109.49	7,373.27	3,641.38	0.09	-0.08	0.129
15.00	-76.29	-6.62	0.00	-572.41	0.00	572.41	4,150.52	2,075.26	7,070.06	3,491.64	0.20	-0.13	0.126
20.00	-73.53	-6.57	0.00	-539.29	0.00	539.29	4,080.16	2,040.08	6,769.73	3,343.32	0.35	-0.17	0.123
25.00	-70.79	-6.51	0.00	-506.46	0.00	506.46	4,007.88	2,003.94	6,472.54	3,196.54	0.55	-0.21	0.119
30.00	-68.07	-6.44	0.00	-473.94	0.00	473.94	3,933.69	1,966.85	6,178.73	3,051.44	0.80	-0.25	0.116
35.00	-65.38	-6.38	0.00	-441.72	0.00	441.72	3,854.52	1,927.26	5,883.88	2,905.83	1.09	-0.30	0.112
40.00	-62.71	-6.28	0.00	-409.85	0.00	409.85	3,744.12	1,872.06	5,549.75	2,740.81	1.42	-0.34	0.109
40.24	-62.58	-6.30	0.00	-408.32	0.00	408.32	3,738.74	1,869.37	5,533.72	2,732.90	1.44	-0.34	0.108
45.00	-59.22	-6.20	0.00	-378.36	0.00	378.36	3,633.72	1,816.86	5,225.39	2,580.62	1.80	-0.38	0.104
45.40	-58.94	-6.20	0.00	-375.88	0.00	375.88	3,063.79	1,531.89	4,506.32	2,225.50	1.83	-0.39	0.116
50.00	-56.65	-6.09	0.00	-347.34	0.00	347.34	3,008.67	1,504.34	4,302.82	2,125.00	2.22	-0.43	0.111
55.00	-54.18	-5.94	0.00	-316.90	0.00	316.90	2,946.93	1,473.46	4,084.17	2,017.02	2.69	-0.47	0.105
55.68	-53.85	-5.93	0.00	-312.89	0.00	312.89	2,938.42	1,469.21	4,054.78	2,002.51	2.76	-0.48	0.104
55.68	-53.85	-5.93	0.00	-312.89	0.00	312.89	2,938.42	1,469.21	4,054.78	2,002.51	2.76	-0.48	0.175
60.00	-52.03	-5.83	0.00	-287.24	0.00	287.24	2,883.27	1,441.64	3,868.42	1,910.47	3.21	-0.51	0.168
65.00	-50.00	-5.72	0.00	-258.08	0.00	258.08	2,808.41	1,404.21	3,643.77	1,799.52	3.79	-0.59	0.161
70.00	-48.00	-5.64	0.00	-229.46	0.00	229.46	2,713.79	1,356.89	3,400.96	1,679.60	4.44	-0.66	0.154
75.00	-46.08	-5.57	0.00	-201.23	0.00	201.23	2,619.16	1,309.58	3,166.52	1,563.83	5.16	-0.73	0.146
80.00	-43.81	-5.38	0.00	-173.38	0.00	173.38	2,524.53	1,262.26	2,940.46	1,452.18	5.96	-0.79	0.137
80.75	-43.53	-5.38	0.00	-169.35	0.00	169.35	2,510.36	1,255.18	2,907.34	1,435.82	6.09	-0.81	0.135
84.90	-41.62	-5.25	0.00	-147.01	0.00	147.01	1,500.18	750.09	1,728.96	853.87	6.81	-0.86	0.200
85.00	-41.59	-5.28	0.00	-146.48	0.00	146.48	1,499.54	749.77	1,726.89	852.85	6.83	-0.86	0.200
90.00	-34.70	-4.54	0.00	-120.07	0.00	120.07	1,466.64	733.32	1,624.12	802.09	7.78	-0.95	0.173
95.00	-33.45	-4.46	0.00	-97.38	0.00	97.38	1,431.82	715.91	1,522.23	751.77	8.81	-1.02	0.153
100.00	-26.40	-3.52	0.00	-75.09	0.00	75.09	1,395.09	697.54	1,421.47	702.01	9.92	-1.09	0.126
105.00	-25.27	-3.42	0.00	-57.50	0.00	57.50	1,356.44	678.22	1,322.10	652.93	11.10	-1.15	0.107
110.00	-18.66	-2.55	0.00	-40.39	0.00	40.39	1,315.88	657.94	1,224.36	604.67	12.34	-1.20	0.081
115.00	-17.65	-2.44	0.00	-27.66	0.00	27.66	1,273.40	636.70	1,128.51	557.33	13.62	-1.25	0.063
120.00	-9.46	-1.33	0.00	-15.44	0.00	15.44	1,215.41	607.71	1,023.36	505.40	14.94	-1.27	0.038
125.00	-8.64	-1.23	0.00	-8.80	0.00	8.80	1,152.33	576.16	919.28	454.00	16.29	-1.29	0.027
125.80	-8.51	-1.21	0.00	-7.81	0.00	7.81	1,142.23	571.11	903.13	446.02	16.50	-1.30	0.025
125.80	-8.51	-1.21	0.00	-7.81	0.00	7.81	385.02	192.51	160.54	106.00	16.50	-1.30	0.096
130.00	-7.98	-1.16	0.00	-2.73	0.00	2.73	385.02	192.51	160.54	106.00	17.65	-1.31	0.047
131.00	-1.37	-0.21	0.00	-1.57	0.00	1.57	385.02	192.51	160.54	106.00	17.92	-1.31	0.018
135.00	-0.94	-0.16	0.00	-0.74	0.00	0.74	385.02	192.51	160.54	106.00	19.02	-1.32	0.009
136.00	-0.46	-0.07	0.00	-0.34	0.00	0.34	385.02	192.51	160.54	106.00	19.30	-1.32	0.004
140.00	-0.15	-0.02	0.00	-0.05	0.00	0.05	385.02	192.51	160.54	106.00	20.41	-1.32	0.001
142.00	0.00	-0.02	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	20.96	-1.32	0.000

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



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**Load Case:** 1.0D + 1.0W      60.00 mph Serviceability      23 Iterations

Gust Response Factor : 1.10      Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

**Shaft Segment Forces (Factored)**

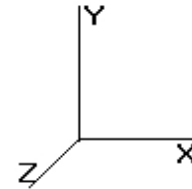
Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	6.129	6.742	194.88	1.000	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	6.129	6.742	190.28	1.000	* 0.000	5.00	19.182	19.18	129.3	0.0	1,389.3
10.00		1.00	0.70	6.129	6.742	185.68	1.000	* 0.000	5.00	18.723	18.72	126.2	0.0	1,363.9
15.00		1.00	0.70	6.129	6.742	181.07	1.000	* 0.000	5.00	18.265	18.26	123.1	0.0	1,338.4
20.00		1.00	0.70	6.129	6.742	176.47	1.000	* 0.000	5.00	17.806	17.81	120.0	0.0	1,312.9
25.00		1.00	0.70	6.129	6.742	171.86	1.000	* 0.000	5.00	17.348	17.35	116.9	0.0	1,287.4
30.00		1.00	0.70	6.134	6.747	167.33	1.000	* 0.000	5.00	16.889	16.89	114.0	0.0	1,261.9
35.00		1.00	0.73	6.410	7.051	166.34	1.000	* 0.000	5.00	16.430	16.43	115.9	0.0	1,236.4
40.00		1.00	0.76	6.659	7.325	164.75	1.000	* 0.000	5.00	15.972	15.97	117.0	0.0	1,211.0
40.24	Bot - Section 2	1.00	0.76	6.671	7.338	164.66	1.000	* 0.000	0.24	0.767	0.77	5.6	0.0	58.4
45.00		1.00	0.78	6.887	7.576	162.66	1.000	* 0.000	4.76	15.054	15.05	114.1	0.0	1,836.8
45.40	Top - Section 1	1.00	0.78	6.905	7.595	162.48	1.200	* 0.000	0.40	1.247	1.50	11.4	0.0	152.5
50.00		1.00	0.81	7.098	7.807	163.67	1.200	* 0.000	4.60	14.131	16.96	132.4	0.0	973.2
55.00		1.00	0.83	7.294	8.023	160.89	1.200	* 0.000	5.00	14.919	17.90	143.6	0.0	1,036.8
55.68	Reinf. Top	1.00	0.83	7.319	8.051	160.49	1.200	* 0.000	0.68	1.985	2.38	19.2	0.0	138.7
60.00		1.00	0.85	7.477	8.225	157.82	1.200	* 0.000	4.32	12.476	14.97	123.1	0.0	587.5
65.00		1.00	0.87	7.650	8.415	154.49	1.200	* 0.000	5.00	14.002	16.80	141.4	0.0	659.2
70.00	Appertunance(s)	1.00	0.89	7.814	8.595	150.93	1.000	* 0.000	5.00	13.544	13.54	116.4	0.0	637.3
75.00		1.00	0.91	7.969	8.766	147.18	1.000	* 0.000	5.00	13.085	13.08	114.7	0.0	615.5
80.00	Appertunance(s)	1.00	0.92	8.118	8.930	143.24	1.000	* 0.000	5.00	12.626	12.63	112.7	0.0	593.6
80.75	Bot - Section 3	1.00	0.93	8.139	8.953	142.64	1.200	* 0.000	0.75	1.851	2.22	19.9	0.0	87.0
84.90	Top - Section 2	1.00	0.94	8.257	9.082	139.23	1.200	* 0.000	4.15	10.256	12.31	111.8	0.0	796.3
85.00		1.00	0.94	8.260	9.086	141.66	1.200	* 0.000	0.10	0.244	0.29	2.7	0.0	7.7
90.00	Appertunance(s)	1.00	0.95	8.396	9.235	137.43	1.200	* 0.000	5.00	11.925	14.31	132.2	0.0	375.2
95.00		1.00	0.97	8.526	9.379	133.06	1.000	0.000	5.00	11.466	11.47	107.5	0.0	360.6
100.0	Appertunance(s)	1.00	0.98	8.652	9.517	128.57	1.000	0.000	5.00	11.007	11.01	104.8	0.0	346.1
105.0		1.00	1.00	8.774	9.651	123.96	1.000	0.000	5.00	10.549	10.55	101.8	0.0	331.5
110.0	Appertunance(s)	1.00	1.01	8.891	9.780	119.24	1.000	0.000	5.00	10.090	10.09	98.7	0.0	316.9
115.0		1.00	1.02	9.005	9.905	114.42	1.000	0.000	5.00	9.632	9.63	95.4	0.0	302.4
120.0	Appertunance(s)	1.00	1.04	9.115	10.02	109.50	1.000	0.000	5.00	9.173	9.17	92.0	0.0	287.8
125.0		1.00	1.05	9.222	10.14	104.49	1.000	0.000	5.00	8.714	8.71	88.4	0.0	273.3
125.8	Top - Section 3	1.00	1.05	9.239	10.16	103.68	1.000	0.000	0.80	1.353	1.35	13.7	0.0	42.4
130.0		1.00	1.06	9.326	10.25	55.473	0.692	* 0.000	4.20	3.762	2.60	26.7	0.0	174.7
131.0	Appertunance(s)	1.00	1.06	9.346	10.28	55.534	0.691	* 0.000	1.00	0.896	0.62	6.4	0.0	41.6
135.0		1.00	1.07	9.427	10.36	55.773	0.689	* 0.000	4.00	3.583	2.47	25.6	0.0	166.4
136.0	Appertunance(s)	1.00	1.07	9.447	10.39	55.832	0.688	* 0.000	1.00	0.896	0.62	6.4	0.0	41.6
140.0		1.00	1.08	9.525	10.47	56.064	0.685	0.000	4.00	3.583	2.45	25.7	0.0	166.4
142.0		1.00	1.09	9.564	10.52	56.178	0.684	0.000	2.00	1.792	1.22	12.9	0.0	83.2
<b>Totals:</b>									142.00			3,069.6	0.0	21,891.7

\* = Cf Adjusted By Linear Load Ra Effect



Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



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**Load Case:** 1.0D + 1.0W

60.00 mph Serviceability

23 Iterations

Gust Response Factor : 1.10  
 Dead Load Factor : 1.00  
 Wind Load Factor : 1.00

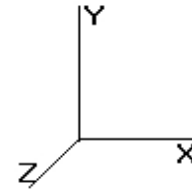
Wind Importance Factor : 1.00

**Discrete Appurtenance Segment Forces (Factored)**

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orientation Factor	Ka	Total EPAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
70.00	PCTEL GPS-TMG-HR-	1	7.814	8.595	1.00	1.00	0.09	0.000	0.000	0.77	0.00	0.00	0.60
70.00	Stand-Off	1	7.814	8.595	1.00	1.00	1.00	0.000	0.000	8.60	0.00	0.00	30.00
80.00	Diamond X50A	2	8.118	8.930	1.00	1.00	2.24	0.000	0.000	20.00	0.00	0.00	4.60
80.00	Stand-Offs	2	8.118	8.930	1.00	1.00	6.00	0.000	0.000	53.58	0.00	0.00	100.00
90.00	Flat Platform w/ Han	1	8.396	9.235	0.90	1.00	38.16	0.000	0.000	352.41	0.00	0.00	2,000.00
90.00	RFS ATMAA1412D-	4	8.396	9.235	0.50	0.75	1.50	0.000	0.000	13.85	0.00	0.00	52.00
90.00	Ericsson AIR 21, 1.3	4	8.396	9.235	0.71	0.75	12.89	0.000	0.000	119.01	0.00	0.00	332.00
90.00	Ericsson AIR 21, 1.3	3	8.396	9.235	0.70	0.75	9.59	0.000	0.000	88.58	0.00	0.00	244.50
100.0	Flat Platform w/ Han	1	8.652	9.517	0.90	1.00	38.16	0.000	0.000	363.18	0.00	0.00	2,000.00
100.0	Rymosa MGD3-800TX	3	8.652	9.517	0.82	0.75	6.16	0.000	0.000	58.65	0.00	0.00	46.20
100.0	Allgon P65-16-XL-2	3	8.652	9.517	0.75	0.75	13.72	0.000	0.000	130.57	0.00	0.00	99.00
100.0	RFS FD9R6004/1C-3L	6	8.652	9.517	0.50	0.75	0.83	0.000	0.000	7.92	0.00	0.00	18.60
100.0	Alcatel-Lucent RRH2x	3	8.652	9.517	0.50	0.75	2.43	0.000	0.000	23.13	0.00	0.00	132.00
100.0	RFS DB-T1-6Z-8AB-0Z	1	8.652	9.517	1.00	0.75	3.60	0.000	0.000	34.26	0.00	0.00	44.00
100.0	Antel BXA-70080/6CF	3	8.652	9.517	0.88	0.75	11.56	0.000	0.000	110.05	0.00	0.00	54.00
100.0	Antel BXA-171063/12C	3	8.652	9.517	0.72	0.75	7.76	0.000	0.000	73.85	0.00	0.00	45.00
100.0	GPS	1	8.652	9.517	0.50	0.75	0.38	0.000	0.000	3.57	0.00	0.00	10.00
110.0	Flat Platform w/ Han	1	8.891	9.780	0.90	1.00	38.16	0.000	0.000	373.21	0.00	0.00	2,000.00
110.0	72" x 12" Panel	3	8.891	9.780	0.67	0.75	12.26	0.000	0.000	119.86	0.00	0.00	135.00
110.0	48" x 12" Panel	9	8.891	9.780	0.66	0.75	22.59	0.000	0.000	220.90	0.00	0.00	270.00
120.0	Flat Platform w/ Han	1	9.115	10.026	1.00	1.00	42.40	0.000	0.000	425.11	0.00	0.00	2,000.00
120.0	NextNet BTS-2500	3	9.115	10.026	0.50	0.75	2.05	0.000	0.000	20.53	0.00	0.00	105.00
120.0	DragonWave A-ANT-	2	9.115	10.026	0.90	0.75	6.33	0.000	0.000	63.48	0.00	0.00	54.20
120.0	DragonWave Horizon	2	9.115	10.026	0.50	0.75	0.32	0.000	0.000	3.23	0.00	0.00	21.20
120.0	Argus LLPX310R	3	9.115	10.026	0.73	0.75	7.05	0.000	0.000	70.65	0.00	0.00	85.80
120.0	RFS APXVSP18-C-	3	9.115	10.026	0.69	0.75	12.45	0.000	0.000	124.84	0.00	0.00	171.00
120.0	Alcatel-Lucent 1900	3	9.115	10.026	0.50	0.75	2.61	0.000	0.000	26.17	0.00	0.00	180.00
120.0	Alcatel-Lucent 800 M	3	9.115	10.026	0.50	0.75	2.32	0.000	0.000	23.24	0.00	0.00	192.00
120.0	Alcatel-Lucent TD-RR	3	9.115	10.026	0.50	0.75	4.56	0.000	0.000	45.68	0.00	0.00	210.00
120.0	RFS APXV9TM14-ALU-	3	9.115	10.026	0.78	0.75	11.13	0.000	0.000	111.56	0.00	0.00	165.30
131.0	Flat Platform w/ Han	1	9.346	10.281	1.00	1.00	42.40	0.000	0.000	435.90	0.00	0.00	2,000.00
131.0	Powerwave 7770	6	9.346	10.281	0.65	0.75	16.12	0.000	0.000	165.69	0.00	0.00	210.00
131.0	Powerwave LGP21401	6	9.346	10.281	0.50	0.75	2.48	0.000	0.000	25.44	0.00	0.00	84.60
131.0	Powerwave LGP219nn	6	9.346	10.281	0.50	0.75	0.52	0.000	0.000	5.32	0.00	0.00	33.00
131.0	Powerwave P65-16-	3	9.346	10.281	0.67	0.75	12.26	0.000	0.000	126.00	0.00	0.00	159.00
131.0	Ericsson RRUS 11 (Ba	6	9.346	10.281	0.50	0.75	5.78	0.000	0.000	59.45	0.00	0.00	264.00
131.0	Raycap DC6-48-60-18-	1	9.346	10.281	1.00	0.75	0.96	0.000	0.000	9.87	0.00	0.00	31.80
136.0	Kathrein 742-218 / A	3	9.525	10.478	0.73	0.80	6.75	0.000	4.000	70.67	0.00	282.70	67.50
136.0	Generic RCU	3	9.447	10.391	0.50	0.80	0.19	0.000	0.000	2.00	0.00	0.00	3.00
										3,990.80			13,654.90

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
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 Shape : 12 Sides. Sect 4: Round  
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 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



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**Load Case:** 1.0D + 1.0W      60.00 mph Serviceability      23 Iterations

Gust Response Factor : 1.10      Wind Importance Factor : 1.00

Dead Load Factor : 1.00

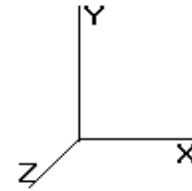
Wind Load Factor : 1.00

**Linear Appurtenance Segment Forces (Factored)**

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	FX (lb)	Dead Load (lb)
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.129	0.161	1.182	0.00	24.60
5.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.161	1.182	0.00	0.40
5.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.161	1.182	0.00	1.50
5.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.161	1.182	0.00	18.25
5.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.161	1.182	0.00	1.35
5.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.161	1.182	0.00	5.25
5.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.129	0.161	1.182	0.00	57.39
5.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.161	1.182	0.00	1.50
5.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	6.129	0.161	1.182	0.00	0.00
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.129	0.165	1.194	0.00	24.60
10.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.165	1.194	0.00	0.40
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.165	1.194	0.00	1.50
10.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.165	1.194	0.00	18.25
10.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.165	1.194	0.00	1.35
10.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.165	1.194	0.00	5.25
10.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.129	0.165	1.194	0.00	57.39
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.165	1.194	0.00	1.50
10.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	6.129	0.165	1.194	0.00	0.00
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.129	0.169	1.206	0.00	24.60
15.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.169	1.206	0.00	0.40
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.169	1.206	0.00	1.50
15.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.169	1.206	0.00	18.25
15.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.169	1.206	0.00	1.35
15.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.169	1.206	0.00	5.25
15.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.129	0.169	1.206	0.00	57.39
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.169	1.206	0.00	1.50
15.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	6.129	0.169	1.206	0.00	0.00
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.129	0.173	1.219	0.00	24.60
20.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.173	1.219	0.00	0.40
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.173	1.219	0.00	1.50
20.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.173	1.219	0.00	18.25
20.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.173	1.219	0.00	1.35
20.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.173	1.219	0.00	5.25
20.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.129	0.173	1.219	0.00	57.39
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.173	1.219	0.00	1.50
20.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	6.129	0.173	1.219	0.00	0.00
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.129	0.178	1.233	0.00	24.60
25.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.178	1.233	0.00	0.40
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.178	1.233	0.00	1.50
25.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.178	1.233	0.00	18.25
25.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.178	1.233	0.00	1.35
25.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.178	1.233	0.00	5.25
25.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.129	0.178	1.233	0.00	57.39
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.178	1.233	0.00	1.50
25.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	6.129	0.178	1.233	0.00	0.00
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.134	0.183	1.248	0.00	24.60
30.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.134	0.183	1.248	0.00	0.40
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.134	0.183	1.248	0.00	1.50
30.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.134	0.183	1.248	0.00	18.25
30.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.134	0.183	1.248	0.00	1.35
30.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	6.134	0.183	1.248	0.00	5.25

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



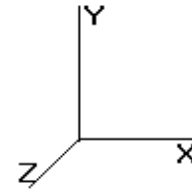
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<b>Load Case:</b> 1.0D + 1.0W	<b>60.00 mph Serviceability</b>	<b>23 Iterations</b>
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

30.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.134	0.183	1.248	0.00	57.39
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.134	0.183	1.248	0.00	1.50
30.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	6.134	0.183	1.248	0.00	0.00
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.410	0.188	1.263	0.00	24.60
35.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.410	0.188	1.263	0.00	0.40
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.410	0.188	1.263	0.00	1.50
35.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.410	0.188	1.263	0.00	18.25
35.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.410	0.188	1.263	0.00	1.35
35.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	6.410	0.188	1.263	0.00	5.25
35.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.410	0.188	1.263	0.00	57.39
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.410	0.188	1.263	0.00	1.50
35.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	6.410	0.188	1.263	0.00	0.00
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.659	0.193	1.279	0.00	24.60
40.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.659	0.193	1.279	0.00	0.40
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.659	0.193	1.279	0.00	1.50
40.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.659	0.193	1.279	0.00	18.25
40.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.659	0.193	1.279	0.00	1.35
40.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	6.659	0.193	1.279	0.00	5.25
40.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.659	0.193	1.279	0.00	57.39
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.659	0.193	1.279	0.00	1.50
40.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	6.659	0.193	1.279	0.00	0.00
40.24	(6) 1 5/8" Coax	Yes	0.24	0.000	1.98	0.04	0.00	6.671	0.196	1.288	0.00	1.20
40.24	(1) 3/8" Coax	Yes	0.24	0.000	0.00	0.00	0.00	6.671	0.196	1.288	0.00	0.02
40.24	(2) 1/2" Coax	Yes	0.24	0.000	0.00	0.00	0.00	6.671	0.196	1.288	0.00	0.07
40.24	(1) 2" Conduit	Yes	0.24	0.000	0.00	0.00	0.00	6.671	0.196	1.288	0.00	0.89
40.24	(6) 5/16" Coax	Yes	0.24	0.000	0.00	0.00	0.00	6.671	0.196	1.288	0.00	0.07
40.24	(1) 1 1/4" Fiber	Yes	0.24	0.000	0.00	0.00	0.00	6.671	0.196	1.288	0.00	0.26
40.24	(14) 1 5/8" Coax	Yes	0.24	0.000	3.96	0.08	0.00	6.671	0.196	1.288	0.00	2.80
40.24	(2) 1/2" Coax	Yes	0.24	0.000	0.00	0.00	0.00	6.671	0.196	1.288	0.00	0.07
40.24	(4) DYWIDAG	Yes	0.24	0.000	1.46	0.03	0.00	6.671	0.196	1.288	0.00	0.00
45.00	(6) 1 5/8" Coax	Yes	4.76	0.000	1.98	0.78	0.00	6.887	0.199	1.297	0.00	23.40
45.00	(1) 3/8" Coax	Yes	4.76	0.000	0.00	0.00	0.00	6.887	0.199	1.297	0.00	0.38
45.00	(2) 1/2" Coax	Yes	4.76	0.000	0.00	0.00	0.00	6.887	0.199	1.297	0.00	1.43
45.00	(1) 2" Conduit	Yes	4.76	0.000	0.00	0.00	0.00	6.887	0.199	1.297	0.00	17.36
45.00	(6) 5/16" Coax	Yes	4.76	0.000	0.00	0.00	0.00	6.887	0.199	1.297	0.00	1.28
45.00	(1) 1 1/4" Fiber	Yes	4.76	0.000	0.00	0.00	0.00	6.887	0.199	1.297	0.00	4.99
45.00	(14) 1 5/8" Coax	Yes	4.76	0.000	3.96	1.57	0.00	6.887	0.199	1.297	0.00	54.60
45.00	(2) 1/2" Coax	Yes	4.76	0.000	0.00	0.00	0.00	6.887	0.199	1.297	0.00	1.43
45.00	(4) DYWIDAG	Yes	4.76	0.000	1.46	0.58	0.00	6.887	0.199	1.297	0.00	0.00
45.40	(6) 1 5/8" Coax	Yes	0.40	1.200	1.98	0.07	0.08	6.905	0.202	0.000	0.60	1.97
45.40	(1) 3/8" Coax	Yes	0.40	0.000	0.00	0.00	0.00	6.905	0.202	0.000	0.00	0.03
45.40	(2) 1/2" Coax	Yes	0.40	0.000	0.00	0.00	0.00	6.905	0.202	0.000	0.00	0.12
45.40	(1) 2" Conduit	Yes	0.40	0.000	0.00	0.00	0.00	6.905	0.202	0.000	0.00	1.46
45.40	(6) 5/16" Coax	Yes	0.40	0.000	0.00	0.00	0.00	6.905	0.202	0.000	0.00	0.11
45.40	(1) 1 1/4" Fiber	Yes	0.40	0.000	0.00	0.00	0.00	6.905	0.202	0.000	0.00	0.42
45.40	(14) 1 5/8" Coax	Yes	0.40	1.200	3.96	0.13	0.16	6.905	0.202	0.000	1.20	4.59
45.40	(2) 1/2" Coax	Yes	0.40	0.000	0.00	0.00	0.00	6.905	0.202	0.000	0.00	0.12
45.40	(4) DYWIDAG	Yes	0.40	1.200	1.46	0.05	0.06	6.905	0.202	0.000	0.44	0.00
50.00	(6) 1 5/8" Coax	Yes	4.60	1.200	1.98	0.76	0.91	7.098	0.201	0.000	7.11	22.63
50.00	(1) 3/8" Coax	Yes	4.60	0.000	0.00	0.00	0.00	7.098	0.201	0.000	0.00	0.37
50.00	(2) 1/2" Coax	Yes	4.60	0.000	0.00	0.00	0.00	7.098	0.201	0.000	0.00	1.38
50.00	(1) 2" Conduit	Yes	4.60	0.000	0.00	0.00	0.00	7.098	0.201	0.000	0.00	16.79
50.00	(6) 5/16" Coax	Yes	4.60	0.000	0.00	0.00	0.00	7.098	0.201	0.000	0.00	1.24
50.00	(1) 1 1/4" Fiber	Yes	4.60	0.000	0.00	0.00	0.00	7.098	0.201	0.000	0.00	4.83
50.00	(14) 1 5/8" Coax	Yes	4.60	1.200	3.96	1.52	1.82	7.098	0.201	0.000	14.22	52.80
50.00	(2) 1/2" Coax	Yes	4.60	0.000	0.00	0.00	0.00	7.098	0.201	0.000	0.00	1.38
50.00	(4) DYWIDAG	Yes	4.60	1.200	1.46	0.56	0.67	7.098	0.201	0.000	5.24	0.00

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



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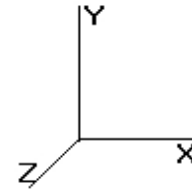
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<b>Load Case:</b> 1.0D + 1.0W	60.00 mph Serviceability	23 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

55.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	7.294	0.207	0.000	7.94	24.60
55.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.294	0.207	0.000	0.00	0.40
55.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.294	0.207	0.000	0.00	1.50
55.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	7.294	0.207	0.000	0.00	18.25
55.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.294	0.207	0.000	0.00	1.35
55.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.294	0.207	0.000	0.00	5.25
55.00	(14) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	7.294	0.207	0.000	15.89	57.39
55.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.294	0.207	0.000	0.00	1.50
55.00	(4) DYWIDAG	Yes	5.00	1.200	1.46	0.61	0.73	7.294	0.207	0.000	5.86	0.00
55.68	(6) 1 5/8" Coax	Yes	0.68	1.200	1.98	0.11	0.13	7.319	0.210	0.000	1.08	3.33
55.68	(1) 3/8" Coax	Yes	0.68	0.000	0.00	0.00	0.00	7.319	0.210	0.000	0.00	0.05
55.68	(2) 1/2" Coax	Yes	0.68	0.000	0.00	0.00	0.00	7.319	0.210	0.000	0.00	0.20
55.68	(1) 2" Conduit	Yes	0.68	0.000	0.00	0.00	0.00	7.319	0.210	0.000	0.00	2.47
55.68	(6) 5/16" Coax	Yes	0.68	0.000	0.00	0.00	0.00	7.319	0.210	0.000	0.00	0.18
55.68	(1) 1 1/4" Fiber	Yes	0.68	0.000	0.00	0.00	0.00	7.319	0.210	0.000	0.00	0.71
55.68	(14) 1 5/8" Coax	Yes	0.68	1.200	3.96	0.22	0.27	7.319	0.210	0.000	2.16	7.77
55.68	(2) 1/2" Coax	Yes	0.68	0.000	0.00	0.00	0.00	7.319	0.210	0.000	0.00	0.20
55.68	(4) DYWIDAG	Yes	0.68	1.200	1.46	0.08	0.10	7.319	0.210	0.000	0.80	0.00
60.00	(6) 1 5/8" Coax	Yes	4.32	1.200	1.98	0.71	0.86	7.477	0.214	0.000	7.04	21.27
60.00	(1) 3/8" Coax	Yes	4.32	0.000	0.00	0.00	0.00	7.477	0.214	0.000	0.00	0.35
60.00	(2) 1/2" Coax	Yes	4.32	0.000	0.00	0.00	0.00	7.477	0.214	0.000	0.00	1.30
60.00	(1) 2" Conduit	Yes	4.32	0.000	0.00	0.00	0.00	7.477	0.214	0.000	0.00	15.78
60.00	(6) 5/16" Coax	Yes	4.32	0.000	0.00	0.00	0.00	7.477	0.214	0.000	0.00	1.17
60.00	(1) 1 1/4" Fiber	Yes	4.32	0.000	0.00	0.00	0.00	7.477	0.214	0.000	0.00	4.54
60.00	(14) 1 5/8" Coax	Yes	4.32	1.200	3.96	1.43	1.71	7.477	0.214	0.000	14.08	49.62
60.00	(2) 1/2" Coax	Yes	4.32	0.000	0.00	0.00	0.00	7.477	0.214	0.000	0.00	1.30
60.00	(4) DYWIDAG	Yes	4.32	1.200	1.46	0.53	0.63	7.477	0.214	0.000	5.19	0.00
65.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	7.650	0.203	0.000	8.33	24.60
65.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.650	0.203	0.000	0.00	0.40
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.650	0.203	0.000	0.00	1.50
65.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	7.650	0.203	0.000	0.00	18.25
65.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.650	0.203	0.000	0.00	1.35
65.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.650	0.203	0.000	0.00	5.25
65.00	(14) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	7.650	0.203	0.000	16.66	57.39
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.650	0.203	0.000	0.00	1.50
65.00	(4) DYWIDAG	Yes	3.00	1.200	1.46	0.37	0.44	7.650	0.203	0.000	3.69	0.00
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.814	0.183	1.248	0.00	24.60
70.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.814	0.183	1.248	0.00	0.40
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.814	0.183	1.248	0.00	1.50
70.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	7.814	0.183	1.248	0.00	18.25
70.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.814	0.183	1.248	0.00	1.35
70.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.814	0.183	1.248	0.00	5.25
70.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	7.814	0.183	1.248	0.00	57.39
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.814	0.183	1.248	0.00	1.50
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.969	0.189	1.267	0.00	24.60
75.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.969	0.189	1.267	0.00	0.40
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.969	0.189	1.267	0.00	1.50
75.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	7.969	0.189	1.267	0.00	18.25
75.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.969	0.189	1.267	0.00	1.35
75.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.969	0.189	1.267	0.00	5.25
75.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	7.969	0.189	1.267	0.00	57.39
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.969	0.189	1.267	0.00	1.50
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.118	0.196	1.288	0.00	24.60
80.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.118	0.196	1.288	0.00	0.40
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.118	0.196	1.288	0.00	1.50
80.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	8.118	0.196	1.288	0.00	18.25
80.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.118	0.196	1.288	0.00	1.35

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)



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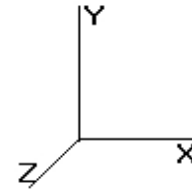
<b>Load Case:</b> 1.0D + 1.0W	60.00 mph Serviceability	23 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

80.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	8.118	0.196	1.288	0.00	5.25
80.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	8.118	0.196	1.288	0.00	57.39
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.118	0.196	1.288	0.00	1.50
80.75	(6) 1 5/8" Coax	Yes	0.75	1.200	1.98	0.12	0.15	8.139	0.200	0.000	1.33	3.68
80.75	(1) 3/8" Coax	Yes	0.75	0.000	0.00	0.00	0.00	8.139	0.200	0.000	0.00	0.06
80.75	(2) 1/2" Coax	Yes	0.75	0.000	0.00	0.00	0.00	8.139	0.200	0.000	0.00	0.22
80.75	(1) 2" Conduit	Yes	0.75	0.000	0.00	0.00	0.00	8.139	0.200	0.000	0.00	2.73
80.75	(6) 5/16" Coax	Yes	0.75	0.000	0.00	0.00	0.00	8.139	0.200	0.000	0.00	0.20
80.75	(1) 1 1/4" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	8.139	0.200	0.000	0.00	0.79
80.75	(14) 1 5/8" Coax	Yes	0.75	1.200	3.96	0.25	0.30	8.139	0.200	0.000	2.65	8.59
84.90	(6) 1 5/8" Coax	Yes	4.15	1.200	1.98	0.68	0.82	8.257	0.204	0.000	7.47	20.42
84.90	(1) 3/8" Coax	Yes	4.15	0.000	0.00	0.00	0.00	8.257	0.204	0.000	0.00	0.33
84.90	(2) 1/2" Coax	Yes	4.15	0.000	0.00	0.00	0.00	8.257	0.204	0.000	0.00	1.25
84.90	(1) 2" Conduit	Yes	4.15	0.000	0.00	0.00	0.00	8.257	0.204	0.000	0.00	15.15
84.90	(6) 5/16" Coax	Yes	4.15	0.000	0.00	0.00	0.00	8.257	0.204	0.000	0.00	1.12
84.90	(1) 1 1/4" Fiber	Yes	4.15	0.000	0.00	0.00	0.00	8.257	0.204	0.000	0.00	4.36
84.90	(14) 1 5/8" Coax	Yes	4.15	1.200	3.96	1.37	1.64	8.257	0.204	0.000	14.93	47.65
85.00	(6) 1 5/8" Coax	Yes	0.10	1.200	1.98	0.02	0.02	8.260	0.204	0.000	0.18	0.49
85.00	(1) 3/8" Coax	Yes	0.10	0.000	0.00	0.00	0.00	8.260	0.204	0.000	0.00	0.01
85.00	(2) 1/2" Coax	Yes	0.10	0.000	0.00	0.00	0.00	8.260	0.204	0.000	0.00	0.03
85.00	(1) 2" Conduit	Yes	0.10	0.000	0.00	0.00	0.00	8.260	0.204	0.000	0.00	0.37
85.00	(6) 5/16" Coax	Yes	0.10	0.000	0.00	0.00	0.00	8.260	0.204	0.000	0.00	0.03
85.00	(1) 1 1/4" Fiber	Yes	0.10	0.000	0.00	0.00	0.00	8.260	0.204	0.000	0.00	0.11
85.00	(14) 1 5/8" Coax	Yes	0.10	1.200	3.96	0.03	0.04	8.260	0.204	0.000	0.36	1.15
90.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	8.396	0.208	0.000	9.14	24.60
90.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.396	0.208	0.000	0.00	0.40
90.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.396	0.208	0.000	0.00	1.50
90.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	8.396	0.208	0.000	0.00	18.25
90.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.396	0.208	0.000	0.00	1.35
90.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	8.396	0.208	0.000	0.00	5.25
90.00	(14) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	8.396	0.208	0.000	18.29	57.39
95.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.526	0.072	0.000	0.00	24.60
95.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.526	0.072	0.000	0.00	0.40
95.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.526	0.072	0.000	0.00	1.50
95.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	8.526	0.072	0.000	0.00	18.25
95.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.526	0.072	0.000	0.00	1.35
100.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.652	0.075	0.000	0.00	24.60
100.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.652	0.075	0.000	0.00	0.40
100.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.652	0.075	0.000	0.00	1.50
100.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	8.652	0.075	0.000	0.00	18.25
100.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.652	0.075	0.000	0.00	1.35
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.774	0.078	0.000	0.00	24.60
105.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.774	0.078	0.000	0.00	0.40
105.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.774	0.078	0.000	0.00	1.50
105.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	8.774	0.078	0.000	0.00	18.25
105.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.774	0.078	0.000	0.00	1.35
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.891	0.082	0.000	0.00	24.60
110.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.891	0.082	0.000	0.00	0.40
110.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.891	0.082	0.000	0.00	1.50
110.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	8.891	0.082	0.000	0.00	18.25
110.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.891	0.082	0.000	0.00	1.35
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	9.005	0.086	0.000	0.00	24.60
115.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.005	0.086	0.000	0.00	0.40
115.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.005	0.086	0.000	0.00	1.50
115.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	9.005	0.086	0.000	0.00	18.25
115.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.005	0.086	0.000	0.00	1.35
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	9.115	0.090	0.000	0.00	24.60

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)

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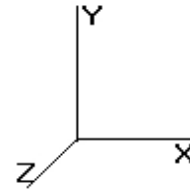
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<b>Load Case: 1.0D + 1.0W</b>		<b>60.00 mph Serviceability</b>										<b>23 Iterations</b>	
<b>Gust Response Factor : 1.10</b>												<b>Wind Importance Factor : 1.00</b>	
<b>Dead Load Factor : 1.00</b>													
<b>Wind Load Factor : 1.00</b>													
120.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.00	9.115	0.090	0.000	0.00	0.40
120.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.00	9.115	0.090	0.000	0.00	1.50
120.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.00	9.115	0.090	0.000	0.00	18.25
120.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.00	9.115	0.090	0.000	0.00	1.35
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.00	9.222	0.095	0.000	0.00	24.60
125.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.00	9.222	0.095	0.000	0.00	0.40
125.8	(6) 1 5/8" Coax	Yes	0.80	0.000	1.98	0.13	0.00	0.00	9.239	0.098	0.000	0.00	3.94
125.8	(1) 3/8" Coax	Yes	0.80	0.000	0.00	0.00	0.00	0.00	9.239	0.098	0.000	0.00	0.06
130.0	(6) 1 5/8" Coax	Yes	4.20	0.000	1.98	0.69	0.00	0.00	9.326	0.184	1.253	0.00	20.66
130.0	(1) 3/8" Coax	Yes	4.20	0.000	0.00	0.00	0.00	0.00	9.326	0.184	1.253	0.00	0.34
131.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.00	9.346	0.184	1.253	0.00	4.92
131.0	(1) 3/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.00	9.346	0.184	1.253	0.00	0.08
135.0	(6) 1 5/8" Coax	Yes	4.00	0.000	1.98	0.66	0.00	0.00	9.427	0.184	1.253	0.00	19.68
135.0	(1) 3/8" Coax	Yes	4.00	0.000	0.00	0.00	0.00	0.00	9.427	0.184	1.253	0.00	0.32
136.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.00	9.447	0.184	1.253	0.00	4.92
136.0	(1) 3/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.00	9.447	0.184	1.253	0.00	0.08
<b>Totals:</b>											<b>171.88</b>	<b>2,337.89</b>	

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)

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**Load Case:** 1.0D + 1.0W      60.00 mph Serviceability      23 Iterations

Gust Response Factor : 1.10      Wind Importance Factor : 1.00

Dead Load Factor : 1.00

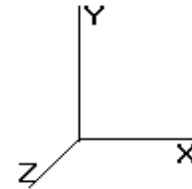
Wind Load Factor : 1.00

### Applied Segment Forces Summary

Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	129.32	1,704.16	0.00	0.00
10.00	126.22	1,678.68	0.00	0.00
15.00	123.13	1,653.20	0.00	0.00
20.00	120.04	1,627.71	0.00	0.00
25.00	116.95	1,602.23	0.00	0.00
30.00	113.95	1,576.75	0.00	0.00
35.00	115.85	1,551.26	0.00	0.00
40.00	117.00	1,525.78	0.00	0.00
40.24	5.63	73.70	0.00	0.00
45.00	114.05	2,136.25	0.00	0.00
45.40	13.61	177.66	0.00	0.00
50.00	158.97	1,262.85	0.00	0.00
55.00	173.32	1,351.66	0.00	0.00
55.68	23.21	181.34	0.00	0.00
60.00	149.45	859.71	0.00	0.00
65.00	170.08	973.98	0.00	0.00
70.00	125.78	982.74	0.00	0.00
75.00	114.71	929.55	0.00	0.00
80.00	186.33	1,012.30	0.00	0.00
80.75	23.86	133.77	0.00	0.00
84.90	134.18	1,055.83	0.00	0.00
85.00	3.21	13.97	0.00	0.00
90.00	733.44	3,316.26	0.00	0.00
95.00	107.54	610.56	0.00	0.00
100.0	909.95	3,044.80	0.00	0.00
105.0	101.81	525.74	0.00	0.00
110.0	812.66	2,916.18	0.00	0.00
115.0	95.40	447.42	0.00	0.00
120.0	1,006.46	3,617.36	0.00	0.00
125.0	88.40	377.20	0.00	0.00
125.8	13.75	59.04	0.00	0.00
130.0	26.71	261.96	0.00	0.00
131.0	834.04	2,844.78	0.00	0.00
135.0	25.58	186.36	0.00	0.00
136.0	79.07	117.09	0.00	282.70
140.0	25.72	166.37	0.00	0.00
142.0	12.88	83.18	0.00	0.00
<b>Totals:</b>	<b>7,232.25</b>	<b>42,639.37</b>	<b>0.00</b>	<b>282.70</b>

Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev: 0.000 (ft)



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<b>Load Case:</b> 1.0D + 1.0W	60.00 mph Serviceability	23 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

**Calculated Forces**

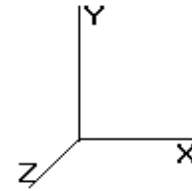
Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-42.64	-7.25	0.00	-679.60	0.00	679.60	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.129
5.00	-40.93	-7.15	0.00	-643.37	0.00	643.37	4,285.51	2,142.75	7,679.11	3,792.42	0.02	-0.04	0.126
10.00	-39.24	-7.05	0.00	-607.63	0.00	607.63	4,218.97	2,109.49	7,373.27	3,641.38	0.09	-0.08	0.123
15.00	-37.59	-6.95	0.00	-572.39	0.00	572.39	4,150.52	2,075.26	7,070.06	3,491.64	0.20	-0.13	0.119
20.00	-35.95	-6.85	0.00	-537.64	0.00	537.64	4,080.16	2,040.08	6,769.73	3,343.32	0.35	-0.17	0.116
25.00	-34.35	-6.76	0.00	-503.38	0.00	503.38	4,007.88	2,003.94	6,472.54	3,196.54	0.55	-0.21	0.112
30.00	-32.76	-6.66	0.00	-469.60	0.00	469.60	3,933.69	1,966.85	6,178.73	3,051.44	0.80	-0.25	0.108
35.00	-31.21	-6.56	0.00	-436.30	0.00	436.30	3,854.52	1,927.26	5,883.88	2,905.83	1.09	-0.30	0.104
40.00	-29.68	-6.45	0.00	-403.50	0.00	403.50	3,744.12	1,872.06	5,549.75	2,740.81	1.42	-0.34	0.101
40.24	-29.61	-6.45	0.00	-401.93	0.00	401.93	3,738.74	1,869.37	5,533.72	2,732.90	1.44	-0.34	0.101
45.00	-27.47	-6.33	0.00	-371.25	0.00	371.25	3,633.72	1,816.86	5,225.39	2,580.62	1.80	-0.38	0.096
45.40	-27.29	-6.33	0.00	-368.72	0.00	368.72	3,063.79	1,531.89	4,506.32	2,225.50	1.83	-0.39	0.107
50.00	-26.02	-6.18	0.00	-339.61	0.00	339.61	3,008.67	1,504.34	4,302.82	2,125.00	2.22	-0.42	0.102
55.00	-24.67	-6.01	0.00	-308.71	0.00	308.71	2,946.93	1,473.46	4,084.17	2,017.02	2.69	-0.47	0.096
55.68	-24.49	-5.99	0.00	-304.64	0.00	304.64	2,938.42	1,469.21	4,054.78	2,002.51	2.76	-0.47	0.095
55.68	-24.49	-5.99	0.00	-304.64	0.00	304.64	2,938.42	1,469.21	4,054.78	2,002.51	2.76	-0.47	0.160
60.00	-23.62	-5.86	0.00	-278.75	0.00	278.75	2,883.27	1,441.64	3,868.42	1,910.47	3.20	-0.51	0.154
65.00	-22.64	-5.70	0.00	-249.47	0.00	249.47	2,808.41	1,404.21	3,643.77	1,799.52	3.77	-0.58	0.147
70.00	-21.65	-5.59	0.00	-220.95	0.00	220.95	2,713.79	1,356.89	3,400.96	1,679.60	4.41	-0.65	0.140
75.00	-20.72	-5.49	0.00	-192.99	0.00	192.99	2,619.16	1,309.58	3,166.52	1,563.83	5.13	-0.71	0.131
80.00	-19.71	-5.30	0.00	-165.53	0.00	165.53	2,524.53	1,262.26	2,940.46	1,452.18	5.91	-0.78	0.122
80.75	-19.57	-5.29	0.00	-161.56	0.00	161.56	2,510.36	1,255.18	2,907.34	1,435.82	6.03	-0.79	0.120
84.90	-18.51	-5.15	0.00	-139.61	0.00	139.61	1,500.18	750.09	1,728.96	853.87	6.74	-0.84	0.176
85.00	-18.50	-5.16	0.00	-139.09	0.00	139.09	1,499.54	749.77	1,726.89	852.85	6.76	-0.84	0.175
90.00	-15.19	-4.39	0.00	-113.29	0.00	113.29	1,466.64	733.32	1,624.12	802.09	7.69	-0.92	0.152
95.00	-14.57	-4.29	0.00	-91.32	0.00	91.32	1,431.82	715.91	1,522.23	751.77	8.69	-1.00	0.132
100.00	-11.54	-3.34	0.00	-69.85	0.00	69.85	1,395.09	697.54	1,421.47	702.01	9.77	-1.06	0.108
105.00	-11.01	-3.24	0.00	-53.14	0.00	53.14	1,356.44	678.22	1,322.10	652.93	10.91	-1.12	0.090
110.00	-8.11	-2.38	0.00	-36.94	0.00	36.94	1,315.88	657.94	1,224.36	604.67	12.11	-1.16	0.067
115.00	-7.67	-2.28	0.00	-25.06	0.00	25.06	1,273.40	636.70	1,128.51	557.33	13.35	-1.20	0.051
120.00	-4.07	-1.19	0.00	-13.68	0.00	13.68	1,215.41	607.71	1,023.36	505.40	14.62	-1.23	0.030
125.00	-3.70	-1.10	0.00	-7.71	0.00	7.71	1,152.33	576.16	919.28	454.00	15.92	-1.24	0.020
125.80	-3.64	-1.08	0.00	-6.83	0.00	6.83	1,142.23	571.11	903.13	446.02	16.13	-1.25	0.019
125.80	-3.64	-1.08	0.00	-6.83	0.00	6.83	385.02	192.51	160.54	106.00	16.13	-1.25	0.074
130.00	-3.38	-1.05	0.00	-2.29	0.00	2.29	385.02	192.51	160.54	106.00	17.23	-1.25	0.030
131.00	-0.55	-0.16	0.00	-1.23	0.00	1.23	385.02	192.51	160.54	106.00	17.49	-1.26	0.013
135.00	-0.36	-0.13	0.00	-0.61	0.00	0.61	385.02	192.51	160.54	106.00	18.55	-1.26	0.007
136.00	-0.25	-0.04	0.00	-0.21	0.00	0.21	385.02	192.51	160.54	106.00	18.81	-1.26	0.003
140.00	-0.08	-0.01	0.00	-0.03	0.00	0.03	385.02	192.51	160.54	106.00	19.87	-1.27	0.000
142.00	0.00	-0.01	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	20.40	-1.27	0.000



Pole : 302511  
 Location : WSPT - South, CT  
 Height : 142.0 (ft)  
 Base Dia : 45.00 (in)  
 Top Dia : 10.75 (in)  
 Shape : 12 Sides. Sect 4: Round  
 Taper : 0.212638 (in/ft)

Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : B  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)

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7/17/2014 9:55:21 AM

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### Analysis Summary

Load Case	Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.6W	40.83	0.00	50.34	0.00	0.00	3748.35	84.90	0.90
0.9D + 1.6W	38.87	0.00	38.67	0.00	0.00	3623.95	84.90	0.88
1.2D + 1.0Di + 1.0Wi	6.79	0.00	84.61	0.00	0.00	673.48	84.90	0.20
1.0D + 1.0W	7.25	0.00	42.64	0.00	0.00	679.60	84.90	0.18

### Additional Steel Summary

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors			Upper Termination Connectors				Lower Termination Connectors				Max Member		
			VQ/I (lb/in)	Shear Applied (kips)	Shear phiVn (kips)	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Pu (kip)	phiPn (kip)	Ratio
0.00	55.6	(4) SOL-#20 All Thre	332.7	10.0	16.8	201.6	12.0	17	22	0.0	12.0	0	0	257.3	330.5	0.779

<b>Base/Flange Plate</b>	Plate Type	<b>Baseplate</b>
	Pole Diameter	45 in
	Pole Thickness	0.4375 in
	Plate Diameter	60 in
	Plate Thickness	2 in
	Plate Fy	60 ksi
	Weld Length	0.25 in
	$\phi_s$ Resistance	942.65 k-in
	Applied	461.86 k-in
<b>Stiffeners</b>	#	<b>16</b> Show
	Thickness	0.5 in
	Length	4 in
	Height	10 in
	Chamfer	0 in
	Offset Angle	0°
	Fy	36 ksi

<b>Bolts</b>	#	<b>16</b>
	Bolt Circle (R)adial / (S)quare	54 in R
	Diameter	2.25 in
	Hole Diameter	2.625 in
	Type	18J
	Fy	75 ksi
	Fu	100 ksi
	$\phi_s$ Resistance	259.82 k
	Applied	157.23 k
<b>Reinforcement</b>	#	<b>4</b>
	DYW. Circle	52 in
	Offset Angle	11.25°
	Type	#20
	Diameter	2.5 in
Fu	100 ksi	
<b>Extra Bolts O</b>	#	<b>0</b>

Code Rev. **G**

Moment **3748.4 k-ft**

Axial **50.3 k**

Date **7/17/2014**

Engineer **William Maynard**

Site # **302511**

Carrier **Sprint**

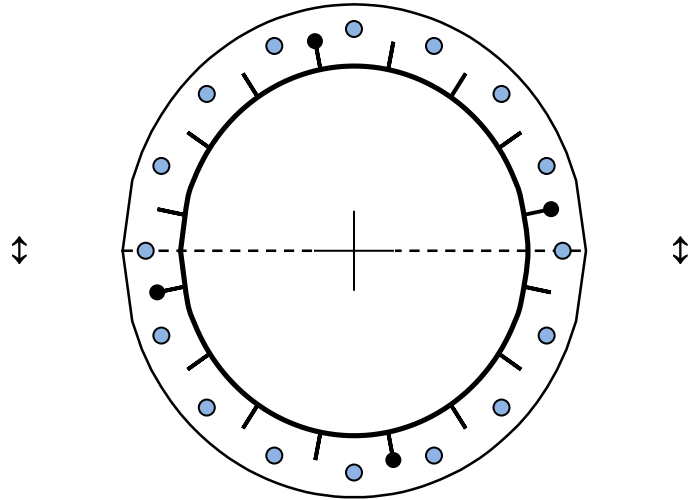
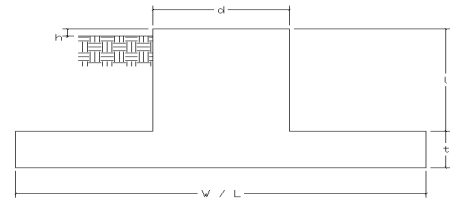


Plate Stress Ratio:  
**0.49** (Pass)

Bolt Stress Ratio:  
**0.61** (Pass)

Site Name: WSPT - South  
 Site Number: 302511  
 Engineering Number: 58995222  
 Engineer: William Maynard  
 Date: 07/17/14  
 Tower Type: MP

Program Last Updated: 11/15/2012



**Design Loads (Factored) - Analysis per TIA-222-G Standards**

Design / Analysis / Mapping:	Analysis		
Compression/Leg:	50.3 k	Concrete Strength ( $f'_c$ ):	4000 psi
Uplift/Leg:	0.0 k	Pad Tension Steel Depth:	32.00 in
Total Shear:	40.8 k	$\phi_{\text{Shear}}$ :	0.75
Moment:	3748.4 k-ft	$\phi_{\text{Flexure / Tension}}$ :	0.90
Tower + Appurtenance Weight:	42.6 k	$\phi_{\text{Compression}}$ :	0.65
Depth to Base of Foundation (l + t - h):	8.00 ft	$\beta$ :	0.85
Diameter of Pier (d):	6.50 ft	Bottom Pad Rebar Size #:	9
Height of Pier above Ground (h):	0.50	# of Bottom Pad Rebar:	40
Width of Pad (W):	18.00 ft	Pad Bottom Steel Area:	40.00 in <sup>2</sup>
Length of Pad (L):	22.00 ft	Pad Steel $F_y$ :	60000 psi
Thickness of Pad (t):	3.00 ft	Top Pad Rebar Size #:	9
Tower Leg Center to Center:	0.00 ft	# of Top Pad Rebar:	40
Number of Tower Legs:	1.0 (1 if MP or GT)	Pad Top Steel Area:	40.00 in <sup>2</sup>
Tower Center from Mat Center:	0.00 ft	Pier Rebar Size #:	9
Depth Below Ground Surface to Water Table:	9.50 ft	Pier Steel Area (Single Bar):	1.00 in <sup>2</sup>
Unit Weight of Concrete:	150.0 pcf	# of Pier Rebar:	32
Unit Weight of Soil Above Water Table:	120.0 pcf	Pier Steel $F_y$ :	60000 psi
Unit Weight of Water:	62.4 pcf	Pier Cage Diameter:	70.0 in
Unit Weight of Soil Below Water Table:	60.0 pcf	Rebar Strain Limit:	0.008
Friction Angle of Uplift:	34.0 Degrees	Steel Elastic Modulus:	29000 ksi
Ultimate Coefficient of Shear Friction:	0.35	Tie Rebar Size #:	5
Ultimate Compressive Bearing Pressure:	20000.0 psf	Tie Steel Area (Single Bar):	0.31 in <sup>2</sup>
Ultimate Passive Pressure on Pad Face:	500.0 psf	Tie Spacing:	12 in
$\phi_{\text{Soil and Concrete Weight}}$ :	0.9	Tie Steel $F_y$ :	60000 psi
$\phi_{\text{Soil}}$ :	0.75		

**Overturning Moment Usage**

Design OTM:	4095.4 k-ft
OTM Resistance:	4137.6 k-ft
Design OTM / OTM Resistance:	0.99 Result: OK

**Soil Bearing Pressure Usage**

Net Bearing Pressure:	7000 psf
Factored Nominal Bearing Pressure:	15000 psf
Net Bearing Pressure/Factored Nominal Bearing Pressure:	0.47 Result: OK
Load Direction Controlling Design Bearing Pressure:	Diagonal to Pad Edge

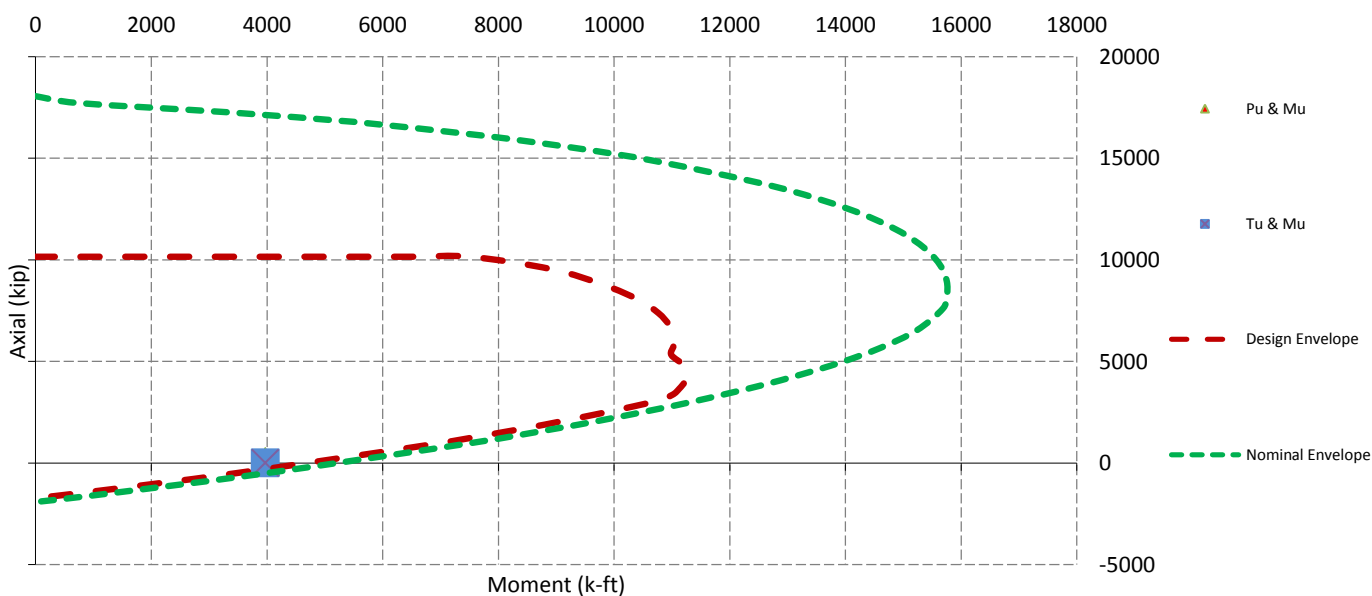
**Sliding Factor of Safety**

Total Factored Sliding Resistance:	142.7 k
Sliding Design / Sliding Resistance:	0.29 Result: OK

### One Way Shear, Flexural Capacity, and Punching Shear

Factored One Way Shear ( $V_u$ ):	201.2 k
One Way Shear Capacity ( $\phi V_c$ ):	496.3 k - ACI11.3.1.1
$V_u / \phi V_c$ :	0.41 Result: OK
Load Direction Controlling Shear Capacity:	Diagonal to Pad Edge
Lower Steel Pad Factored Moment ( $M_u$ ):	1197.6 k-ft
Lower Steel Pad Moment Capacity ( $\phi M_n$ ):	4686.4 k-ft - ACI10.3
$M_u / \phi M_n$ :	0.26 Result: OK
Load Direction Controlling Flexural Capacity:	Diagonal to Pad Edge
Upper Steel Pad Factored Moment ( $M_u$ ):	611.0 k-ft
Upper Steel Pad Moment Capacity ( $\phi M_n$ ):	5555.5 k-ft
$M_u / \phi M_n$ :	0.11 Result: OK
Lower Pad Flexural Reinforcement Ratio:	0.0047 OK - Minimum Reinforcement Ratio Met - ACI10.5.1
Upper Pad Flexural Reinforcement Ratio:	0.0047 OK - Minimum Reinforcement Ratio Met - ACI10.5.1
Lower Pad Reinforcement Spacing:	7 in - Pad Reinforcing Spacing OK - ACI7.12.2.2 & 10.5.4
Upper Pad Reinforcement Spacing:	7 in - Pad Reinforcing Spacing OK - ACI7.12.2.2 & 10.5.4
Factored Punching Shear ( $V_u$ ):	0.0 k
Nominal Punching Shear Capacity ( $\phi_c V_n$ ):	2098.2 k - ACI11.12.2.1
$V_u / \phi V_c$ :	0.00 Result: OK
Factored Moment in Pier ( $M_u$ ):	3972.9 k-ft
Pier Moment Capacity ( $\phi M_n$ ):	4931.7 k-ft
$M_u / \phi M_n$ :	0.81 Result: OK
Factored Shear in Pier ( $V_u$ ):	40.8 k
Pier Shear Capacity ( $\phi V_n$ ):	455.7 k
$V_u / \phi V_c$ :	0.09 Result: OK
Pier Shear Reinforcement Ratio:	0.0008 No Ties Necessary for Shear - ACI11.5.6.1
Factored Tension in Pier ( $T_u$ ):	0.0 k
Pier Tension Capacity ( $\phi T_n$ ):	1728.0 k
$T_u / \phi T_n$ :	0.00 Result: OK
Factored Compression in Pier ( $P_u$ ):	50.3 k
Pier Compression Capacity ( $\phi P_n$ ):	8391.6 k - ACI10.3.6.2
$P_u / \phi P_n$ :	0.01 Result: OK
Pier Compression Reinforcement Ratio:	0.007 OK - Reinforcement Ratio Met - ACI10.9.1 & 10.8.4
$M_u / \phi_B M_n + T_u / \phi_T T_n$ :	0.81 Result: OK

Nominal and Design Moment Capacity and Factored Design Loads



# Sprint



# AMERICAN TOWER CORPORATION

PROJECT: 2.5 EQUIPMENT DEPLOYMENT  
 SITE NAME: TURKEY HILL  
 SITE CASCADE: CT03XC336  
 SITE NUMBER: 302511  
 SITE ADDRESS: 20 POST OFFICE LANE  
 WESTPORT, CT 06880  
 SITE TYPE: MONOPOLE TOWER  
 MARKET: SOUTHERN CONNECTICUT

PLANS PREPARED FOR:

**Sprint**  
 6580 Sprint Parkway  
 Overland Park, Kansas 66251

PLANS PREPARED BY:

**INFINIGY** Design. Build. Deliver.  
 1033 Watervliet Shaker Rd  
 Albany, NY 12205  
 Office # (518) 690-0790  
 Fax # (518) 690-0793  
 JOB NUMBER 340-000

MLA PARTNER:

**AMERICAN TOWER CORPORATION**  
 10 PRESIDENTIAL WAY  
 WOBURN, MA 01801

ENGINEERING LICENSE:



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REVISIONS:

DESCRIPTION	DATE	BY	REV
FOR PERMIT	07/16/14	AHS	1
FOR PERMIT	07/10/14	ASW	0

SITE NAME:

**TURKEY HILL**

SITE CASCADE:

**CT03XC336**

SITE ADDRESS:

20 POST OFFICE LANE  
 WESTPORT, CT 06880

SHEET DESCRIPTION:

**TITLE SHEET & PROJECT DATA**

SHEET NUMBER:

**T-1**

**SITE INFORMATION**

**TOWER OWNER:**  
 AMERICAN TOWER CORPORATION  
 10 PRESIDENTIAL WAY  
 WOBURN, MA 01801

**LATITUDE (NAD83):**  
 41° 7' 24.27" N  
 41.123408°

**LONGITUDE (NAD83):**  
 73° 18' 46.93" W  
 -73.313036°

**COUNTY:**  
 FAIRFIELD

**ZONING JURISDICTION:**  
 CONNECTICUT SITING COUNCIL

**ZONING DISTRICT:**  
 RESIDENTIAL AAA

**POWER COMPANY:**  
 CL&P  
 (800) 286-2000

**AAV PROVIDER:**  
 AT&T  
 (800) 288-2020

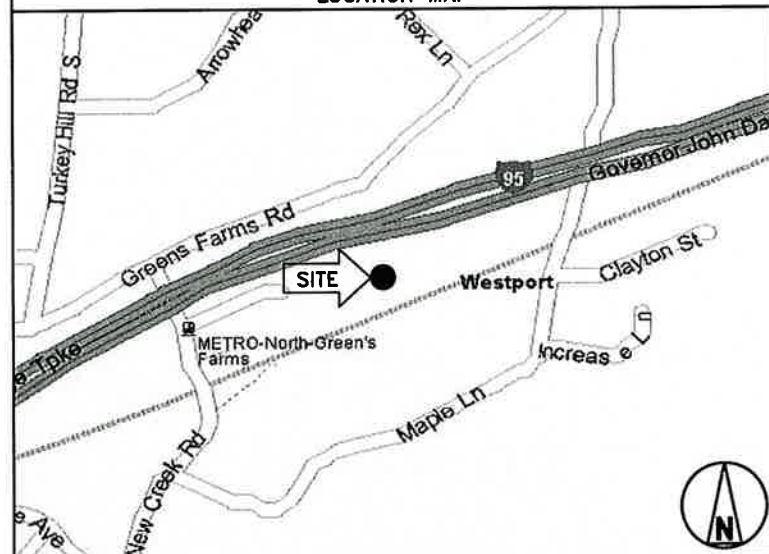
**SPRINT CM:**  
 GARY WOOD  
 (860) 940-9168  
 GARY.WOOD@SPRINT.COM

**AMERICAN TOWER PM:**  
 JOE SHANAHAN  
 (781) 926-4521  
 JOSEPH.SHANAHAN@AMERICANTOWER.COM

**AREA MAP**



**LOCATION MAP**



**PROJECT DESCRIPTION**

SPRINT PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY.

- INSTALL 2.5 EQUIPMENT IN EXISTING NV MMBS CABINET
- INSTALL (3) PANEL ANTENNAS
- INSTALL (3) RRU'S TO TOWER
- INSTALL (27) JUMPER CABLES
- INSTALL (1) FIBER CABLE
- INSTALL (4) BATTERIES IN EXISTING BATTERY CABINET

THESE PLANS HAVE BEEN DEVELOPED FOR THE MODIFICATION OF AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY OWNED OR LEASED BY SPRINT IN ACCORDANCE WITH THE SCOPE OF WORK PROVIDED BY SPRINT. INFINIGY HAS INCORPORATED THIS SCOPE OF WORK IN THE PLANS. THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS ACCOMPANIED BY A PASSING STRUCTURAL STABILITY ANALYSIS PREPARED BY A LICENSED STRUCTURAL ENGINEER. STRUCTURAL ANALYSIS MUST INCLUDE BOTH TOWER AND MOUNT.

**APPLICABLE CODES**

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALL IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. INTERNATIONAL BUILDING CODE (2012 IBC)
2. TIA-EIA-222-G OR LATEST EDITION
3. NFPA 780 - LIGHTNING PROTECTION CODE
4. 2011 NATIONAL ELECTRIC CODE OR LATEST EDITION
5. ANY OTHER NATIONAL OR LOCAL APPLICABLE CODES, MOST RECENT EDITIONS
6. CT BUILDING CODE
7. LOCAL BUILDING CODE
8. CITY/COUNTY ORDINANCES

**DRAWING INDEX**

SHEET NO.	SHEET TITLE	REV.
T-1	TITLE SHEET & PROJECT DATA	1
SP-1	SPRINT SPECIFICATIONS	1
SP-2	SPRINT SPECIFICATIONS	1
SP-3	SPRINT SPECIFICATIONS	1
A-1	SITE PLAN	1
A-1A	EXISTING EQUIPMENT DETAILS	1
A-2	TOWER ELEVATION & CABLE PLAN	1
A-3	ANTENNA LAYOUT & MOUNTING DETAILS	1
A-4	COLOR CODING & NOTES	1
A-5	EQUIPMENT & MOUNTING DETAILS	1
A-6	CIVIL DETAILS	1
A-7	PLUMBING DIAGRAM	1
E-1	ELECTRICAL & GROUNDING PLAN	1
E-2	ELECTRICAL & GROUNDING DETAILS	1



THESE OUTLINE SPECIFICATIONS IN CONJUNCTION WITH THE SPRINT STANDARD CONSTRUCTION SPECIFICATIONS, INCLUDING CONTRACT DOCUMENTS AND THE CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE PERFORMED BY THE CONTRACTOR.

**SECTION 01 100 - SCOPE OF WORK**

**PART 1 - GENERAL**

- 1.1 THE WORK: THESE STANDARD CONSTRUCTION SPECIFICATIONS IN CONJUNCTION WITH THE SPRINT CONSTRUCTION STANDARDS FOR WIRELESS SITES, CONTRACT DOCUMENTS AND THE CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE PERFORMED BY THE CONTRACTOR.
- 1.2 RELATED DOCUMENTS:
  - A. THE REQUIREMENTS OF THIS SECTION APPLY TO ALL SECTIONS IN THIS SPECIFICATION.
  - B. SPRINT "STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES" ARE INCLUDED IN AND MADE A PART OF THESE SPECIFICATIONS HEREWITH.
- 1.3 PRECEDENCE: SHOULD CONFLICTS OCCUR BETWEEN THE STANDARD CONSTRUCTION SPECIFICATIONS FOR WIRELESS SITES INCLUDING THE STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES AND THE CONSTRUCTION DRAWINGS, INFORMATION ON THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE. NOTIFY SPRINT CONSTRUCTION MANAGER IF THIS OCCURS.
- 1.4 NATIONALLY RECOGNIZED CODES AND STANDARDS:
  - A. THE WORK SHALL COMPLY WITH APPLICABLE NATIONAL AND LOCAL CODES AND STANDARDS, LATEST EDITION, AND PORTIONS THEREOF, INCLUDED BUT NOT LIMITED TO THE FOLLOWING:
    1. GR-63-CORE NEBS REQUIREMENTS: PHYSICAL PROTECTION
    5. GR-78-CORE GENERIC REQUIREMENTS FOR THE PHYSICAL DESIGN AND MANUFACTURE OF TELECOMMUNICATIONS EQUIPMENT.
    3. GR-1089 CORE, ELECTROMAGNETIC COMPATIBILITY AND ELECTRICAL SAFETY -GENERIC CRITERIA FOR NETWORK TELECOMMUNICATIONS EQUIPMENT.
    4. NATIONAL FIRE PROTECTION ASSOCIATION CODES AND STANDARDS (NFPA) INCLUDING NFPA 70 (NATIONAL ELECTRICAL CODE - "NEC") AND NFPA 101 (LIFE SAFETY CODE).
    5. AMERICAN SOCIETY FOR TESTING OF MATERIALS (ASTM)
    6. INSTITUTE OF ELECTRONIC AND ELECTRICAL ENGINEERS (IEEE)
    7. AMERICAN CONCRETE INSTITUTE (ACI)
    8. AMERICAN WIRE PRODUCERS ASSOCIATION (AWPA)
    9. CONCRETE REINFORCING STEEL INSTITUTE (CRSI)
    10. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO)
    11. PORTLAND CEMENT ASSOCIATION (PCA)
    12. NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA)
    13. BRICK INDUSTRY ASSOCIATION (BIA)
    14. AMERICAN WELDING SOCIETY (AWS)
    15. NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA)
    16. SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA)
    17. DOOR AND HARDWARE INSTITUTE (DHI)
    18. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
    19. APPLICABLE BUILDING CODES INCLUDING UNIFORM BUILDING CODE, SOUTHERN BUILDING CODE, BOCA, AND THE INTERNATIONAL BUILDING CODE.

**1.5 DEFINITIONS:**

- A. WORK: THE SUM OF TASKS AND RESPONSIBILITIES IDENTIFIED IN THE CONTRACT DOCUMENTS.
- B. COMPANY: SPRINT CORPORATION
- C. ENGINEER: SYNONYMOUS WITH ARCHITECT & ENGINEER AND "A&E". THE DESIGN PROFESSIONAL HAVING PROFESSIONAL RESPONSIBILITY FOR DESIGN OF THE PROJECT.
- D. CONTRACTOR: CONSTRUCTION CONTRACTOR; CONSTRUCTION VENDOR; INDIVIDUAL OR ENTITY WHO AFTER EXECUTION OF A CONTRACT IS BOUND TO ACCOMPLISH THE WORK.
- E. THIRD PARTY VENDOR OR AGENCY: A VENDOR OR AGENCY ENGAGED SEPARATELY BY THE COMPANY, A&E, OR CONTRACTOR TO PROVIDE MATERIALS OR TO ACCOMPLISH SPECIFIC TASKS RELATED TO BUT NOT INCLUDED IN THE WORK.
- F. OFCI: OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT.
- G. CONSTRUCTION MANAGER - ALL PROJECTS RELATED COMMUNICATION TO FLOW THROUGH SPRINT REPRESENTATIVE IN CHARGE OF PROJECT...

- 1.6 SITE FAMILIARITY: CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE SPRINT CONSTRUCTION MANAGER PRIOR TO THE COMMENCEMENT OF WORK. NO COMPENSATION WILL BE AWARDED BASED ON CLAIM OF LACK OF KNOWLEDGE OR FIELD CONDITIONS.
- 1.7 POINT OF CONTACT: COMMUNICATION BETWEEN SPRINT AND THE CONTRACTOR SHALL FLOW THROUGH THE SINGLE SPRINT CONSTRUCTION MANAGER APPOINTED TO MANAGE THE PROJECT FOR SPRINT.
- 1.8 ON-SITE SUPERVISION: THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL EMPLOY A COMPETENT SUPERINTENDENT WHO SHALL BE IN ATTENDANCE AT THE SITE AT ALL TIMES DURING PERFORMANCE OF THE WORK.
- 1.9 DRAWINGS, SPECIFICATIONS AND DETAILS REQUIRED AT JOBSITE: THE CONSTRUCTION CONTRACTOR SHALL MAINTAIN A FULL SET OF THE CONSTRUCTION DRAWINGS, STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES AND THE STANDARD CONSTRUCTION SPECIFICATIONS FOR WIRELESS SITES AT THE JOBSITE FROM MOBILIZATION THROUGH CONSTRUCTION COMPLETION.
  - A. THE JOBSITE DRAWINGS, SPECIFICATIONS AND DETAILS SHALL BE CLEARLY MARKED DAILY IN RED PENCIL WITH ANY CHANGES IN CONSTRUCTION OVER WHAT IS DEPICTED IN THE DOCUMENTS. AT CONSTRUCTION COMPLETION, THIS JOBSITE MARKUP SET SHALL BE DELIVERED TO THE COMPANY OR COMPANY'S DESIGNATED REPRESENTATIVE TO BE FORWARDED TO THE COMPANY'S A&E VENDOR FOR PRODUCTION OF "AS-BUILT" DRAWINGS.
  - B. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK. CONTRACTOR SHALL NOTIFY SPRINT CONSTRUCTION MANAGER OF ANY VARIATIONS PRIOR TO PROCEEDING WITH THE WORK.
  - C. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS NOTED OTHERWISE. SPACING BETWEEN EQUIPMENT IS THE REQUIRED CLEARANCE. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS AND/OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE SPRINT CONSTRUCTION MANAGER PRIOR TO PROCEEDING WITH THE WORK.
- 1.10 USE OF JOB SITE: THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION AND RELATED OPERATIONS INCLUDING STAGING AND STORAGE OF MATERIALS AND EQUIPMENT, PARKING, TEMPORARY FACILITIES, AND WASTE STORAGE TO THE LEASE PARCEL UNLESS OTHERWISE PERMITTED BY THE CONTRACT DOCUMENTS.
- 1.11 UTILITIES SERVICES: WHERE NECESSARY TO CUT EXISTING PIPES, ELECTRICAL WIRES, CONDUITS, CABLES, ETC., OF UTILITY SERVICES, OR OF FIRE PROTECTION OR COMMUNICATIONS SYSTEMS, THEY SHALL BE CUT AND CAPPED AT SUITABLE PLACES OR WHERE SHOWN. ALL SUCH ACTIONS SHALL BE COORDINATED WITH THE UTILITY COMPANY INVOLVED:
- 1.12 PERMITS / FEES: WHEN REQUIRED THAT A PERMIT OR CONNECTION FEE BE PAID TO A PUBLIC UTILITY PROVIDER FOR NEW SERVICE TO THE CONSTRUCTION PROJECT, PAYMENT OF SUCH FEE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 1.13 CONTRACTOR SHALL TAKE ALL MEASURES AND PROVIDE ALL MATERIAL NECESSARY FOR PROTECTING EXISTING EQUIPMENT AND PROPERTY.
- 1.14 METHODS OF PROCEDURE (MOPS) FOR CONSTRUCTION: CONTRACTOR SHALL PERFORM WORK AS DESCRIBED IN THE FOLLOWING INSTALLATION AND COMMISSIONING MOPS.
 

NOTE: IN SHORT-FORM SPECIFICATIONS ON THE DRAWINGS, A/E TO INSERT LIST OF APPLICABLE MOPS INCLUDING EN-2012-001, EN-2013-002, EL-0568, AND TS-0193
- 1.15 USE OF ELECTRONIC PROJECT MANAGEMENT SYSTEMS:

**PART 2 - PRODUCTS (NOT USED)**

**PART 3 - EXECUTION**

- 3.1 TEMPORARY UTILITIES AND FACILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY UTILITIES AND FACILITIES NECESSARY EXCEPT AS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS. TEMPORARY UTILITIES AND FACILITIES INCLUDE POTABLE WATER, HEAT, HVAC, ELECTRICITY, SANITARY FACILITIES, WASTE DISPOSAL FACILITIES, AND TELEPHONE/COMMUNICATION SERVICES. PROVIDE TEMPORARY UTILITIES AND FACILITIES IN ACCORDANCE WITH OSHA AND THE AUTHORITY HAVING JURISDICTION. CONTRACTOR MAY UTILIZE THE COMPANY ELECTRICAL SERVICE IN THE COMPLETION OF THE WORK WHEN IT BECOMES AVAILABLE. USE OF THE LESSORS OR SITE OWNER'S UTILITIES OR FACILITIES IS EXPRESSLY FORBIDDEN EXCEPT AS OTHERWISE ALLOWED IN THE CONTRACT DOCUMENTS.
- 3.2 ACCESS TO WORK: THE CONTRACTOR SHALL PROVIDE ACCESS TO THE JOB SITE FOR AUTHORIZED COMPANY PERSONNEL AND AUTHORIZED REPRESENTATIVES OF THE ARCHITECT/ENGINEER DURING ALL PHASES OF THE WORK.
- 3.3 TESTING: REQUIREMENTS FOR TESTING BY THIS CONTRACTOR SHALL BE AS INDICATED HEREWITH, ON THE CONSTRUCTION DRAWINGS, AND IN THE INDIVIDUAL SECTIONS OF THESE SPECIFICATIONS. SHOULD COMPANY CHOOSE TO ENGAGE ANY THIRD-PARTY TO CONDUCT ADDITIONAL TESTING, THE CONTRACTOR SHALL COOPERATE WITH AND PROVIDE A WORK AREA FOR COMPANY'S TEST AGENCY.
- 3.4 DIMENSIONS: VERIFY DIMENSIONS INDICATED ON DRAWINGS WITH FIELD DIMENSIONS BEFORE FABRICATION OR ORDERING OF MATERIALS. DO NOT SCALE DRAWINGS.

- 3.5 EXISTING CONDITIONS: NOTIFY THE SPRINT CONSTRUCTION MANAGER OF EXISTING CONDITIONS DIFFERING FROM THOSE INDICATED ON THE DRAWINGS. DO NOT REMOVE OR ALTER STRUCTURAL COMPONENTS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND ENGINEER.

**SECTION 01 200 - COMPANY FURNISHED MATERIAL AND EQUIPMENT**

**PART 1 - GENERAL**

- 1.1 THE WORK: THESE STANDARD CONSTRUCTION SPECIFICATIONS IN CONJUNCTION WITH THE OTHER CONTRACT DOCUMENTS AND THE CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE PERFORMED BY THE CONTRACTOR.
- 1.2 RELATED DOCUMENTS:
  - A. THE REQUIREMENTS OF THIS SECTION APPLY TO ALL SECTIONS IN THIS SPECIFICATION.
  - B. SPRINT "STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES" ARE INCLUDED IN AND MADE A PART OF THESE SPECIFICATIONS HEREWITH.

**PART 2 - PRODUCTS (NOT USED)**

**PART 3 - EXECUTION**

- 3.1 RECEIPT OF MATERIAL AND EQUIPMENT:
  - A. A COMPANY FURNISHED MATERIAL AND EQUIPMENT IS IDENTIFIED ON THE RF DATA SHEET IN THE CONSTRUCTION DOCUMENTS.
  - B. THE CONTRACTOR IS RESPONSIBLE FOR SPRINT PROVIDED MATERIAL AND EQUIPMENT AND UPON RECEIPT SHALL:
    1. ACCEPT DELIVERIES AS SHIPPED AND TAKE RECEIPT.
    2. VERIFY COMPLETENESS AND CONDITION OF ALL DELIVERIES.
    3. TAKE RESPONSIBILITY FOR EQUIPMENT AND PROVIDE INSURANCE PROTECTION AS REQUIRED IN AGREEMENT.
    4. RECORD ANY DEFECTS OR DAMAGES AND WITHIN TWENTY-FOUR HOURS AFTER RECEIPT, REPORT TO SPRINT OR ITS DESIGNATED PROJECT REPRESENTATIVE OF SUCH.
    5. PROVIDE SECURE AND NECESSARY WEATHER PROTECTED WAREHOUSING.
    6. COORDINATE SAFE AND SECURE TRANSPORTATION OF MATERIAL AND EQUIPMENT, DELIVERING AND OFF-LOADING FROM CONTRACTOR'S WAREHOUSE TO SITE.
- 3.2 DELIVERABLES:
  - A. COMPLETE SHIPPING AND RECEIPT DOCUMENTATION IN ACCORDANCE WITH COMPANY PRACTICE.
  - B. IF APPLICABLE, COMPLETE LOST/STOLEN/DAMAGED DOCUMENTATION REPORT AS NECESSARY IN ACCORDANCE WITH COMPANY PRACTICE, AND AS DIRECTED BY COMPANY.
  - C. UPLOAD DOCUMENTATION INTO SPRINT SITE MANAGEMENT SYSTEM (SMS) AND/OR PROVIDE HARD COPY DOCUMENTATION AS REQUESTED.

**SECTION 01 300 - CELL SITE CONSTRUCTION CO.**

**PART 1 - GENERAL**

- 1.1 THE WORK: THESE STANDARD CONSTRUCTION SPECIFICATIONS IN CONJUNCTION WITH THE OTHER CONTRACT DOCUMENTS AND THE CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE PERFORMED BY THE CONTRACTOR.
- 1.2 RELATED DOCUMENTS:
  - A. THE REQUIREMENTS OF THIS SECTION APPLY TO ALL SECTIONS IN THIS SPECIFICATION.
  - B. SPRINT "STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES" ARE INCLUDED IN AND MADE A PART OF THESE SPECIFICATIONS HEREWITH.
- 1.3 NOTICE TO PROCEED
  - A. NO WORK SHALL COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ISSUANCE OF THE WORK ORDER.
  - B. UPON RECEIVING NOTICE TO PROCEED, CONTRACTOR SHALL FULLY PERFORM ALL WORK NECESSARY TO PROVIDE SPRINT WITH AN OPERATIONAL WIRELESS FACILITY.

**PART 2 - PRODUCTS (NOT USED)**

**PART 3 - EXECUTION**

- 3.1 FUNCTIONAL REQUIREMENTS:
  - A. THE ACTIVITIES DESCRIBED IN THIS PARAGRAPH REPRESENT MINIMUM ACTIONS AND PROCESSES REQUIRED TO SUCCESSFULLY COMPLETE THE WORK. THE ACTIVITIES DESCRIBED ARE NOT EXHAUSTIVE, AND CONTRACTOR SHALL TAKE ANY AND ALL ACTIONS AS NECESSARY TO SUCCESSFULLY COMPLETE THE CONSTRUCTION OF A FULLY FUNCTIONING WIRELESS FACILITY AT THE SITE IN ACCORDANCE WITH COMPANY PROCESSES.
  - B. SUBMIT SPECIFIC DOCUMENTATION AS INDICATED HEREIN, AND OBTAIN REQUIRED APPROVALS WHILE THE WORK IS BEING PERFORMED.
  - C. MANAGE AND CONDUCT ALL FIELD CONSTRUCTION SERVICE RELATED ACTIVITIES
  - D. PROVIDE CONSTRUCTION ACTIVITIES TO THE EXTENT REQUIRED BY THE CONTRACT DOCUMENTS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

PLANS PREPARED FOR:



PLANS PREPARED BY:



MLA PARTNER:



ENGINEERING LICENSE:



DRAWING NOTICE:

THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE SOLE PROPERTY OF SPRINT AND MAY NOT BE REPRODUCED, DISSEMINATED OR REDISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF SPRINT.

REVISIONS:

DESCRIPTION	DATE	BY	REV
FOR PERMIT	07/16/14	AHS	1
FOR PERMIT	07/10/14	ASW	0

SITE NAME:

**TURKEY HILL**

SITE CASCADE:

**CT03XC336**

SITE ADDRESS:

**20 POST OFFICE LANE  
WESTPORT, CT 06880**

SHEET DESCRIPTION:

**SPRINT SPECIFICATIONS**

SHEET NUMBER:

**SP-1**

**CONTINUE FROM SP-1**

1. PERFORM ANY REQUIRED SITE ENVIRONMENTAL MITIGATION.
  2. PREPARE GROUND SITES; PROVIDE DE-GRUBBING; AND ROUGH AND FINAL GRADING, AND COMPOUND SURFACE TREATMENTS.
  3. MANAGE AND CONDUCT ALL ACTIVITIES FOR INSTALLATION OF UTILITIES INCLUDING ELECTRICAL AND TELCO BACKHAUL.
  4. INSTALL UNDERGROUND FACILITIES INCLUDING UNDERGROUND POWER AND COMMUNICATIONS CONDUITS, AND UNDERGROUND GROUNDING SYSTEM.
  5. INSTALL ABOVE GROUND GROUNDING SYSTEMS.
  6. PROVIDE NEW HVAC INSTALLATIONS AND MODIFICATIONS.
  7. INSTALL "H-FRAMES", CABINETS AND SHELTERS AS INDICATED.
  8. INSTALL ROADS, ACCESS WAYS, CURBS AND DRAINS AS INDICATED.
  9. ACCOMPLISH REQUIRED MODIFICATION OF EXISTING FACILITIES.
  10. PROVIDE ANTENNA SUPPORT STRUCTURE FOUNDATIONS.
  11. PROVIDE SLABS AND EQUIPMENT PLATFORMS.
  12. INSTALL COMPOUND FENCING, SIGHT SHIELDING, LANDSCAPING AND ACCESS BARRIERS.
  13. PERFORM INSPECTION AND MATERIAL TESTING AS REQUIRED HEREINAFTER.
  14. CONDUCT SITE RESISTANCE TO EARTH TESTING AS REQUIRED HEREINAFTER.
  15. INSTALL FIXED GENERATOR SETS AND OTHER STANDBY POWER SOLUTIONS.
  16. INSTALL TOWERS, ANTENNA SUPPORT STRUCTURES AND PLATFORMS ON EXISTING TOWERS AS REQUIRED.
  17. INSTALL CELL SITE RADIOS, MICROWAVE, GPS, COAXIAL MAINLINE, ANTENNAS, CROSS BAND COUPLERS, TOWER TOP AMPLIFIERS, LOW NOISE AMPLIFIERS AND RELATED EQUIPMENT.
  18. PERFORM, DOCUMENT, AND CLOSE OUT ANY CONSTRUCTION CONTROL DOCUMENTS THAT MAY BE REQUIRED BY GOVERNMENT AGENCIES AND LANDLORDS.
  19. PERFORM ANTENNA AND COAX SWEEP TESTING AND MAKE ANY AND ALL NECESSARY CORRECTIONS.
  20. REMAIN ON SITE MOBILIZED THROUGHOUT HAND-OFF AND INTEGRATION TO ASSIST AS NEEDED UNTIL SITE IS DEEMED SUBSTANTIALLY COMPLETE AND PLACED "ON AIR."
- 3.2 GENERAL REQUIREMENTS FOR CIVIL CONSTRUCTION:**
- A. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH, AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL REMOVE FROM THE SITE ALL REMAINING RUBBISH, IMPLEMENTS, TEMPORARY FACILITIES, AND SURPLUS MATERIALS.
- B. EQUIPMENT ROOMS SHALL AT ALL TIMES BE MAINTAINED "BROOM CLEAN" AND CLEAR OF DEBRIS.
- C. CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO DISCOVER AND LOCATE ANY HAZARDOUS CONDITION.
1. IN THE EVENT CONTRACTOR ENCOUNTERS ANY HAZARDOUS CONDITION WHICH HAS NOT BEEN ABATED OR OTHERWISE MITIGATED, CONTRACTOR AND ALL OTHER PERSONS SHALL IMMEDIATELY STOP WORK IN THE AFFECTED AREA AND NOTIFY COMPANY IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED EXCEPT BY WRITTEN NOTIFICATION BY COMPANY.
  2. CONTRACTOR AGREES TO USE CARE WHILE ON THE SITE AND SHALL NOT TAKE ANY ACTION THAT WILL OR MAY RESULT IN OR CAUSE THE HAZARDOUS CONDITION TO BE FURTHER RELEASED IN THE ENVIRONMENT, OR TO FURTHER EXPOSE INDIVIDUALS TO THE HAZARD.
- D. CONTRACTOR'S ACTIVITIES SHALL BE RESTRICTED TO THE PROJECT LIMITS. SHOULD AREAS OUTSIDE THE PROJECT LIMITS BE AFFECTED BY CONTRACTOR'S ACTIVITIES, CONTRACTOR SHALL IMMEDIATELY RETURN THEM TO ORIGINAL CONDITION
- E. CONDUCT TESTING AS REQUIRED HEREIN.
- 3.3 DELIVERABLES:**
- A. CONTRACTOR SHALL REVIEW, APPROVE, AND SUBMIT TO SPRINT SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND SIMILAR SUBMITTALS AS REQUIRED HEREINAFTER
- B. PROVIDE DOCUMENTATION INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING. DOCUMENTATION SHALL BE FORWARDED IN ORIGINAL FORMAT AND/OR UPLOADED INTO SMS.
1. ALL CORRESPONDENCE AND PRELIMINARY CONSTRUCTION REPORTS.
  2. PROJECT PROGRESS REPORTS.
  3. CIVIL CONSTRUCTION START DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).
  4. ELECTRICAL SERVICE COMPLETION DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).

5. LINES AND ANTENNA INSTALL DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).
6. POWER INSTALL DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).
7. TELCO READY DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).
8. PPC (OR SHELTER) INSTALL DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).
9. TOWER CONSTRUCTION START DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).
10. TOWER CONSTRUCTION COMPLETE DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).
11. BTS AND RADIO EQUIPMENT DELIVERED AT SITE DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).
12. NETWORK OPERATIONS HANDOFF CHECKLIST (HOC WALK) COMPLETE (UPLOAD FORM IN SMS)
13. CIVIL CONSTRUCTION COMPLETE DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).
14. SITE CONSTRUCTION PROGRESS PHOTOS UNLOADED INTO SMS.

**SECTION 01 400 - SUBMITTALS & TESTS**

**PART 1 - GENERAL**

- 1.1 THE WORK: THESE STANDARD CONSTRUCTION SPECIFICATIONS IN CONJUNCTION WITH THE OTHER CONTRACT DOCUMENTS AND THE CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE PERFORMED BY THE CONTRACTOR.
- 1.2 RELATED DOCUMENTS:
- A. THE REQUIREMENTS OF THIS SECTION APPLY TO ALL SECTIONS IN THIS SPECIFICATION.
- B. SPRINT "STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES" ARE INCLUDED IN AND MADE A PART OF THESE SPECIFICATIONS HERewith.
- 1.3 SUBMITTALS:
- A. THE WORK IN ALL ASPECTS SHALL COMPLY WITH THE CONSTRUCTION DRAWINGS AND THESE SPECIFICATIONS.
- B. SUBMIT THE FOLLOWING TO COMPANY REPRESENTATIVE FOR APPROVAL
1. CONCRETE MIX-DESIGNS FOR TOWER FOUNDATIONS, ANCHORS PIERS, AND CONCRETE PAVING.
  2. CONCRETE BREAK TESTS AS SPECIFIED HEREIN.
  3. SPECIAL FINISHES FOR INTERIOR SPACES, IF ANY.
  4. ALL EQUIPMENT AND MATERIALS SO IDENTIFIED ON THE CONSTRUCTION DRAWINGS.
  5. CHEMICAL GROUNDING DESIGN
- D. ALTERNATES: AT THE COMPANY'S REQUEST, ANY ALTERNATIVES TO THE MATERIALS OR METHODS SPECIFIED SHALL BE SUBMITTED TO SPRINT'S CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO BEING SHIPPED TO SITE. SPRINT WILL REVIEW AND APPROVE ONLY THOSE REQUESTS MADE IN WRITING. NO VERBAL APPROVALS WILL BE CONSIDERED. SUBMITTAL FOR APPROVAL SHALL INCLUDE A STATEMENT OF COST REDUCTION PROPOSED FOR USE OF ALTERNATE PRODUCT.

**1.4 TESTS AND INSPECTIONS:**

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION TESTS, INSPECTIONS AND PROJECT DOCUMENTATION.
- B. CONTRACTOR SHALL ACCOMPLISH TESTING INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
1. COAX SWEEPS AND FIBER TESTS PER TS-0200 REV 4 ANTENNA LINE ACCEPTANCE STANDARDS.
  2. AGL, AZIMUTH AND DOWNTILT USING ELECTRONIC COMMERCIAL MADE-FOR-THE-PURPOSE ANTENNA ALIGNMENT TOOL.
  3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CORRECTIONS TO ANY WORK IDENTIFIED AS UNACCEPTABLE IN SITE INSPECTION ACTIVITIES AND/OR AS A RESULT OF TESTING.
- C. REQUIRED CLOSEOUT DOCUMENTATION INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
1. AZIMUTH, DOWNTILT, AGL - UPLOAD REPORT FROM ANTENNA ALIGNMENT TOOL TO SITERRA TASK 465. INSTALLED AZIMUTH, DOWNTILT, AND AGL MUST CONFORM TO THE RF DATA SHEETS. SWEEP AND FIBER TESTS
  2. SCANABLE BARCODE PHOTOGRAPHS OF TOWER TOP AND INACCESSIBLE SERIALIZED EQUIPMENT
  3. ALL AVAILABLE JURISDICTIONAL INFORMATION
  4. PDF SCAN OF REDLINES PRODUCED IN FIELD

5. ELECTRONIC AS-BUILT DRAWINGS IN AUTOCAD AND PDF FORMATS. ANY FIELD CHANGE MUST BE REFLECTED BY MODIFYING THE PLANS, ELEVATIONS, AND DETAILS IN THE DRAWING SETS. GENERAL NOTES INDICATING MODIFICATIONS WILL NOT BE ACCEPTED. CHANGES SHALL BE HIGHLIGHTED AS "CLOUDS" IDENTIFIED AS THE "AS-BUILT" CONDITION.
6. LIEN WAIVERS
7. FINAL PAYMENT APPLICATION
8. REQUIRED FINAL CONSTRUCTION PHOTOS
9. CONSTRUCTION AND COMMISSIONING CHECKLIST COMPLETE WITH NO DEFICIENT ITEMS
10. ALL POST NTP TASKS INCLUDING DOCUMENT UPLOADS COMPLETED IN SITERRA (SPRINTS DOCUMENT REPOSITORY OF RECORD).

- 1.5 COMMISSIONING: PERFORM ALL COMMISSIONING AS REQUIRED BY APPLICABLE MOPs
- 1.6 INTEGRATION: PERFORM ALL INTEGRATION ACTIVITIES AS REQUIRED BY APPLICABLE MOPs

**PART 2 - PRODUCTS (NOT USED)**

**PART 3 - EXECUTION**

**3.1 REQUIREMENTS FOR TESTING:**

- A. THIRD PARTY TESTING AGENCY:
1. WHEN THE USE OF A THIRD PARTY INDEPENDENT TESTING AGENCY IS REQUIRED, THE AGENCY THAT IS SELECTED MUST PERFORM SUCH WORK ON A REGULAR BASIS IN THE STATE WHERE THE PROJECT IS LOCATED AND HAVE A THOROUGH UNDERSTANDING OF LOCAL AVAILABLE MATERIALS, INCLUDING THE SOIL, ROCK, AND GROUNDWATER CONDITIONS.
  2. THE THIRD PARTY TESTING AGENCY IS TO BE FAMILIAR WITH THE APPLICABLE REQUIREMENTS FOR THE TESTS TO BE DONE, EQUIPMENT TO BE USED, AND ASSOCIATED HEALTH AND SAFETY ISSUES.
  3. EXPERIENCE IN SOILS, CONCRETE, MASONRY, AGGREGATE, AND ASPHALT TESTING USING ASTM, AASJTO, AND OTHER METHODS IS NEEDED.
  4. EXPERIENCE IN SOILS, CONCRETE, MASONRY, AGGREGATE, AND ASPHALT TESTING USING ASTM, AASJTO, AND OTHER METHODS IS NEEDED.

**3.2 REQUIRED TESTS:**

- A. CONTRACTOR SHALL ACCOMPLISH TESTING INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
1. CONCRETE CYLINDER BREAK TESTS FOR THE TOWER AND ANCHOR FOUNDATIONS AS SPECIFIED IN SECTION: PORTLAND CEMENT CONCRETE PAVING.
  2. ASPHALT ROADWAY COMPACTED THICKNESS, SURFACE SMOOTHNESS, AND COMPACTED DENSITY TESTING AS SPECIFIED IN SECTION: HOT MIX ASPHALT PAVING.
  3. FIELD QUALITY CONTROL TESTING AS SPECIFIED IN SECTION: PORTLAND CEMENT CONCRETE PAVING.
  4. TESTING REQUIRED UNDER SECTION: AGGREGATE BASE FOR ACCESS ROADS, PADS AND ANCHOR LOCATIONS
  5. STRUCTURAL BACKFILL COMPACTION TESTS FOR THE TOWER FOUNDATION.
  6. SITE RESISTANCE TO EARTH TESTING PER EXHIBIT: CELL SITE GROUNDING SYSTEM DESIGN.
  7. ANTENNA AND COAX SWEEP TESTS PER EXHIBIT: ANTENNA TRANSMISSION LINE ACCEPTANCE STANDARDS.
  8. GROUNDING AT ANTENNA MASTS FOR GPS AND ANTENNAS
  9. ALL OTHER TESTS REQUIRED BY COMPANY OR JURISDICTION.

**3.3 REQUIRED INSPECTIONS**

- A. SCHEDULE INSPECTIONS WITH COMPANY REPRESENTATIVE.
- B. CONDUCT INSPECTIONS INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
1. GROUNDING SYSTEM INSTALLATION PRIOR TO EARTH CONCEALMENT DOCUMENTED WITH DIGITAL PHOTOGRAPHS BY CONTRACTOR, APPROVED BY A&E OR SPRINT REPRESENTATIVE.
  2. FORMING FOR CONCRETE AND REBAR PLACEMENT PRIOR TO POUR DOCUMENTED WITH DIGITAL PHOTOGRAPHS BY CONTRACTOR, APPROVED BY A&E OR SPRINT REPRESENTATIVE.
  3. COMPACTION OF BACKFILL MATERIALS; AGGREGATE BASE FOR ROADS, PADS, AND ANCHORS; ASPHALT PAVING; AND SHAFT BACKFILL FOR CONCRETE AND WOOD POLES, BY INDEPENDENT THIRD PARTY AGENCY.
  4. PRE- AND POST-CONSTRUCTION ROOFTOP AND STRUCTURAL INSPECTIONS ON EXISTING FACILITIES.
  5. TOWER ERECTION SECTION STACKING AND PLATFORM ATTACHMENT DOCUMENTED BY DIGITAL PHOTOGRAPHS BY THIRD PARTY AGENCY.
  6. ANTENNA AZIMUTH, DOWN TILT AND PER SUNLIGHT TOOL SUNSIGHT INSTRUMENTS - ANTENNAALIGN ALIGNMENT TOOL (AAT)

PLANS PREPARED FOR:



PLANS PREPARED BY:



MLA PARTNER:



ENGINEERING LICENSE:



DRAWING NOTICE:

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REVISIONS:

DESCRIPTION	DATE	BY	REV
FOR PERMIT	07/16/14	AHS	1
FOR PERMIT	07/10/14	ASW	0

SITE NAME:

**TURKEY HILL**

SITE CASCADE:

**CT03XC336**

SITE ADDRESS:

**20 POST OFFICE LANE  
WESTPORT, CT 06880**

SHEET DESCRIPTION:

**SPRINT SPECIFICATIONS**

SHEET NUMBER:

**SP-2**

**CONTINUE FROM SP-2**

7. VERIFICATION DOCUMENTED WITH THE ANTENNA CHECKLIST REPORT, BY A&E, SITE DEVELOPMENT REP, OR RF REP.
  8. FINAL INSPECTION CHECKLIST AND HANDOFF WALK (HOC). SIGNED FORM SHOWING ACCEPTANCE BY FIELD OPS IS TO BE UPLOADED INTO SMS.
  9. COAX SWEEP AND FIBER TESTING DOCUMENTS SUBMITTED VIA SMS FOR RF APPROVAL.
  10. SCAN-ABLE BARCODE PHOTOGRAPHS OF TOWER TOP AND INACCESSIBLE SERIALIZED EQUIPMENT
  11. ALL AVAILABLE JURISDICTIONAL INFORMATION
  12. PDF SCAN OF REDLINES PRODUCED IN FIELD
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CORRECTIONS TO ANY WORK IDENTIFIED AS UNACCEPTABLE IN SITE INSPECTION ACTIVITIES AND/OR AS A RESULT OF TESTING.
- D. CONSTRUCTION INSPECTIONS AND CORRECTIVE MEASURES SHALL BE DOCUMENTED BY THE CONTRACTOR WITH WRITTEN REPORTS AND PHOTOGRAPHS. PHOTOGRAPHS MUST BE DIGITAL AND OF SUFFICIENT QUALITY TO CLEARLY SHOW THE SITE CONSTRUCTION. PHOTOGRAPHS MUST CLEARLY IDENTIFY THE PHOTOGRAPHED ITEM AND BE LABELED WITH THE SITE CASCADE NUMBER, SITE NAME, DESCRIPTION, AND DATE.
- 3.4 DELIVERABLES: TEST AND INSPECTION REPORTS AND CLOSEOUT DOCUMENTATION SHALL BE UPLOADED TO THE SMS AND/OR FORWARDED TO SPRINT FOR INCLUSION INTO THE PERMANENT SITE FILES.
- A. THE FOLLOWING TEST AND INSPECTION REPORTS SHALL BE PROVIDED AS APPLICABLE.
1. CONCRETE MIX AND CYLINDER BREAK REPORTS.
  2. STRUCTURAL BACKFILL COMPACTION REPORTS.
  3. SITE RESISTANCE TO EARTH TEST.
  4. ANTENNA AZIMUTH AND DOWN TILT VERIFICATION
  5. TOWER ERECTION INSPECTIONS AND MEASUREMENTS DOCUMENTING TOWER INSTALLED PER SUPPLIER'S REQUIREMENTS AND THE APPLICABLE SECTIONS HEREIN.
  6. COAX CABLE SWEEP TESTS PER COMPANY'S "ANTENNA LINE ACCEPTANCE STANDARDS".
- B. REQUIRED CLOSEOUT DOCUMENTATION INCLUDES THE FOLLOWING:
1. TEST WELLS AND TRENCHES: PHOTOGRAPHS OF ALL TEST WELLS; PHOTOGRAPHS SHOWING ALL OPEN EXCAVATIONS AND TRENCHING PRIOR TO BACKFILLING SHOWING A TAPE MEASURE VISIBLE IN THE EXCAVATIONS INDICATING DEPTH.
  2. CONDUITS, CONDUCTORS AND GROUNDING: PHOTOGRAPHS SHOWING TYPICAL INSTALLATION OF CONDUCTORS AND CONNECTORS; PHOTOGRAPHS SHOWING TYPICAL BEND RADIUS OF INSTALLED GROUND WIRES AND GROUND ROD SPACING;
  3. CONCRETE FORMS AND REINFORCING: CONCRETE FORMING AT TOWER AND EQUIPMENT/SHELTER PAD/FOUNDATIONS - PHOTOGRAPHS SHOWING ALL REINFORCING STEEL, UTILITY AND CONDUIT STUB OUTS; PHOTOGRAPHS SHOWING CONCRETE POUR OF SHELTER SLAB/FOUNDATION, TOWER FOUNDATION AND GUY ANCHORS WITH VIBRATOR IN USE; PHOTOGRAPHS SHOWING EACH ANCHOR ON GUYED TOWERS, BEFORE CONCRETE POUR.
  4. TOWER, ANTENNAS AND MAINLINE: INSPECTION AND PHOTOGRAPHS OF SECTION STACKING; INSPECTION AND PHOTOGRAPHS OF PLATFORM COMPONENT ATTACHMENT POINTS; PHOTOGRAPHS OF TOWER TOP GROUNDING; PHOTOS OF TOWER COAX LINE COLOR CODING AT THE TOP AND AT GROUND LEVEL; INSPECTION AND PHOTOGRAPHS OF OPERATIONAL OF TOWER LIGHTING, AND PLACEMENT OF FAA REGISTRATION SIGN; PHOTOGRAPHS SHOWING ADDITIONAL GROUNDING POINTS FOR TOWERS GREATER THAN 200 FEET.; PHOTOS OF ANTENNA GROUND BAR, EQUIPMENT GROUND BAR, AND MASTER GROUND BAR; PHOTOS OF GPS ANTENNA(S); PHOTOS OF EACH SECTOR OF ANTENNAS; ONE PHOTOGRAPH LOOKING AT THE SECTOR AND ONE FROM BEHIND SHOWING THE PROJECTED COVERAGE AREA; PHOTOS OF COAX WEATHERPROOFING - TOP AND BOTTOM; PHOTOS OF COAX GROUNDING--TOP AND BOTTOM; PHOTOS OF ANTENNA AND MAST GROUNDING; PHOTOS OF COAX CABLE ENTRY INTO SHELTER; PHOTOS OF PLATFORM MECHANICAL CONNECTIONS TO TOWER/MONOPOLE.
  5. ROOF TOPS: PRE-CONSTRUCTION AND POST-CONSTRUCTION VISUAL INSPECTION AND PHOTOGRAPHS OF THE ROOF AND INTERIOR TO DETERMINE AND DOCUMENT CONDITIONS; ROOF TOP CONSTRUCTION INSPECTIONS AS REQUIRED BY THE JURISDICTION; PHOTOGRAPHS OF CABLE TRAY AND/OR ICE BRIDGE; PHOTOGRAPHS OF DOGHOUSE/CABLE EXIT FROM ROOF;
  6. SITE LAYOUT - PHOTOGRAPHS OF THE OVERALL COMPOUND, INCLUDING EQUIPMENT PLATFORM FROM ALL FOUR CORNERS.
  7. FINISHED UTILITIES: CLOSE-UP PHOTOGRAPHS OF THE PPC BREAKER PANEL; CLOSE-UP PHOTOGRAPH OF THE INSIDE OF THE TELCO PANEL AND NIU; CLOSE-UP PHOTOGRAPH OF THE POWER METER AND DISCONNECT; PHOTOS OF POWER AND TELCO ENTRANCE TO COMPANY ENCLOSURE; PHOTOGRAPHS AT METER BOX AND/OR FACILITY DISTRIBUTION PANEL
  8. REQUIRED MATERIALS CERTIFICATIONS: CONCRETE MIX DESIGNS; MILL CERTIFICATION FOR ALL REINFORCING AND STRUCTURAL STEEL; AND ASPHALT PAVING MIX DESIGN.
  9. ANY AND ALL SUBMITTALS BY THE JURISDICTION OR COMPANY.

**SECTION 01 400 - SUBMITTALS & TESTS**

**PART 1 - GENERAL**

- 1.1 THE WORK: THESE STANDARD CONSTRUCTION SPECIFICATIONS IN CONJUNCTION WITH THE OTHER CONTRACT DOCUMENTS AND THE CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE PERFORMED BY THE CONTRACTOR.
- 1.2 RELATED DOCUMENTS:
  - A. THE REQUIREMENTS OF THIS SECTION APPLY TO ALL SECTIONS IN THIS SPECIFICATION.
  - B. SPRINT "STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES" ARE INCLUDED IN AND MADE A PART OF THESE SPECIFICATIONS HERewith.

**PART 2 - PRODUCTS (NOT USED)**

**PART 3 - EXECUTION**

- 3.1 WEEKLY REPORTS:
  - A. CONTRACTOR SHALL PROVIDE SPRINT WITH WEEKLY REPORTS SHOWING PROJECT STATUS. THIS STATUS REPORT FORMAT WILL BE PROVIDED TO THE CONTRACTOR BY SPRINT. THE REPORT WILL CONTAIN SITE ID NUMBER, THE MILESTONES FOR EACH SITE, INCLUDING THE BASELINE DATE, ESTIMATED COMPLETION DATE AND ACTUAL COMPLETION DATE.
  - B. REPORT INFORMATION WILL BE TRANSMITTED TO SPRINT VIA ELECTRONIC MEANS AS REQUIRED. THIS INFORMATION WILL PROVIDE A BASIS FOR PROGRESS MONITORING AND PAYMENT.
- 3.2 PROJECT CONFERENCE CALLS:
  - A. SPRINT MAY HOLD WEEKLY PROJECT CONFERENCE CALLS. CONTRACTOR WILL BE REQUIRED TO COMMUNICATE SITE STATUS, MILESTONE COMPLETIONS AND UPCOMING MILESTONE PROJECTIONS, AND ANSWER ANY OTHER SITE STATUS QUESTIONS AS NECESSARY.
- 3.3 PROJECT TRACKING IN SMS:
  - A. CONTRACTOR SHALL PROVIDE SCHEDULE UPDATES AND PROJECTIONS IN THE SMS SYSTEM ON A WEEKLY BASIS.
- 3.4 ADDITIONAL REPORTING:
  - A. ADDITIONAL OR ALTERNATE REPORTING REQUIREMENTS MAY BE ADDED TO THE REPORT AS DETERMINED TO BE REASONABLY NECESSARY BY COMPANY.
- 3.5 PROJECT PHOTOGRAPHS:
  - A. FILE DIGITAL PHOTOGRAPHS OF COMPLETED SITE IN JPEG FORMAT IN THE SMS PHOTO LIBRARY FOR THE RESPECTIVE SITE. PHOTOGRAPHS SHALL BE CLEARLY LABELED WITH SITE NUMBER, NAME AND DESCRIPTION, AND SHALL INCLUDE AT A MINIMUM THE FOLLOWING AS APPLICABLE:
    1. SHELTER AND TOWER OVERVIEW.
    2. TOWER FOUNDATION(S) - FORMS AND STEEL BEFORE POUR (EACH ANCHOR ON GUYED TOWERS).
    3. TOWER FOUNDATION(S) POUR WITH VIBRATOR IN USE (EACH ANCHOR ON GUYED TOWERS).
    4. TOWER STEEL AS BEING INSTALLED INTO HOLE (SHOW ANCHOR STEEL ON GUYED TOWERS).
    5. PHOTOS OF TOWER SECTION STACKING.
    6. CONCRETE TESTING / SAMPLES.
    7. PLACING OF ANCHOR BOLTS IN TOWER FOUNDATION.
    8. BUILDING/WATER TANK FROM ROAD FOR TENANT IMPROVEMENTS OR COMMENTS.
    9. SHELTER FOUNDATION--FORMS AND STEEL BEFORE POURING.
    10. SHELTER FOUNDATION POUR WITH VIBRATOR IN USE.
    11. COAX CABLE ENTRY INTO SHELTER.
    12. PLATFORM MECHANICAL CONNECTIONS TO TOWER/MONOPOLE.
    13. ROOFTOP PRE AND POST CONSTRUCTION PHOTOS TO INCLUDE PENETRATIONS AND INTERIOR CEILING.
    14. PHOTOS OF TOWER TOP COAX LINE COLOR CODING AND COLOR CODING AT GROUND LEVEL.
    15. PHOTOS OF ALL APPROPRIATE COMPANY OR REGULATORY SIGNAGE.
    16. PHOTOS OF EQUIPMENT BOLT DOWN INSIDE SHELTER.
    17. POWER AND TELCO ENTRANCE TO COMPANY ENCLOSURE AND POWER AND TELCO SUPPLY LOCATIONS INCLUDING METER/DISCONNECT.
    18. ELECTRICAL TRENCH(S) WITH ELECTRICAL / CONDUIT BEFORE BACKFILL.
    19. ELECTRICAL TRENCH(S) WITH FOIL-BACKED TAPE BEFORE FURTHER BACKFILL.
    20. TELCO TRENCH WITH TELEPHONE / CONDUIT BEFORE BACKFILL.
    21. TELCO TRENCH WITH FOIL-BACKED TAPE BEFORE FURTHER BACKFILL.
    22. SHELTER GROUND-RING TRENCH WITH GROUND-WIRE BEFORE BACKFILL (SHOW ALL CAD WELDS AND BEND RADII).
    23. TOWER GROUND-RING TRENCH WITH GROUND-WIRE BEFORE BACKFILL (SHOW ALL CAD WELDS AND BEND RADII).

24. FENCE GROUND-RING TRENCH WITH GROUND-WIRE BEFORE BACKFILL (SHOW ALL CAD WELDS AND BEND RADII).
  25. ALL BTS GROUND CONNECTIONS.
  26. ALL GROUND TEST WELLS.
  27. ANTENNA GROUND BAR AND EQUIPMENT GROUND BAR.
  28. ADDITIONAL GROUNDING POINTS ON TOWERS ABOVE 200'.
  29. HVAC UNITS INCLUDING CONDENSERS ON SPLIT SYSTEMS.
  30. GPS ANTENNAS.
  31. CABLE TRAY AND/OR WAVEGUIDE BRIDGE.
  32. DOGHOUSE/CABLE EXIT FROM ROOF.
  33. EACH SECTOR OF ANTENNAS; ONE PHOTOGRAPH LOOKING AT THE SECTOR AND ONE FROM BEHIND SHOWING THE PROJECTED COVERAGE AREA.
  34. MASTER BUS BAR.
  35. TELCO BOARD AND NIU.
  36. ELECTRICAL DISTRIBUTION WALL.
  37. CABLE ENTRY WITH SURGE SUPPRESSION.
  38. ENTRANCE TO EQUIPMENT ROOM.
  39. COAX WEATHERPROOFING--TOP AND BOTTOM OF TOWER.
  40. COAX GROUNDING --TOP AND BOTTOM OF TOWER.
  41. ANTENNA AND MAST GROUNDING.
  42. LANDSCAPING - WHERE APPLICABLE.
- 3.6 FINAL PROJECT ACCEPTANCE: COMPLETE ALL REQUIRED REPORTING TASKS PER CONTRACT, CONTRACT DOCUMENTS OR THE SPRINT INTEGRATED CONSTRUCTION STANDARDS FOR WIRELESS SITES AND UPLOAD INTO SITERRA.

PLANS PREPARED FOR:



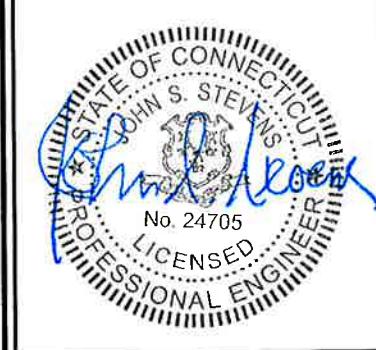
PLANS PREPARED BY:



MLA PARTNER:



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SITE NAME:

**TURKEY HILL**

SITE CASCADE:

**CT03XC336**

SITE ADDRESS:

**20 POST OFFICE LANE  
WESTPORT, CT 06880**

SHEET DESCRIPTION:

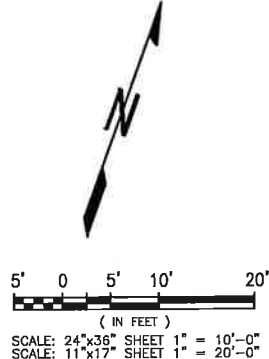
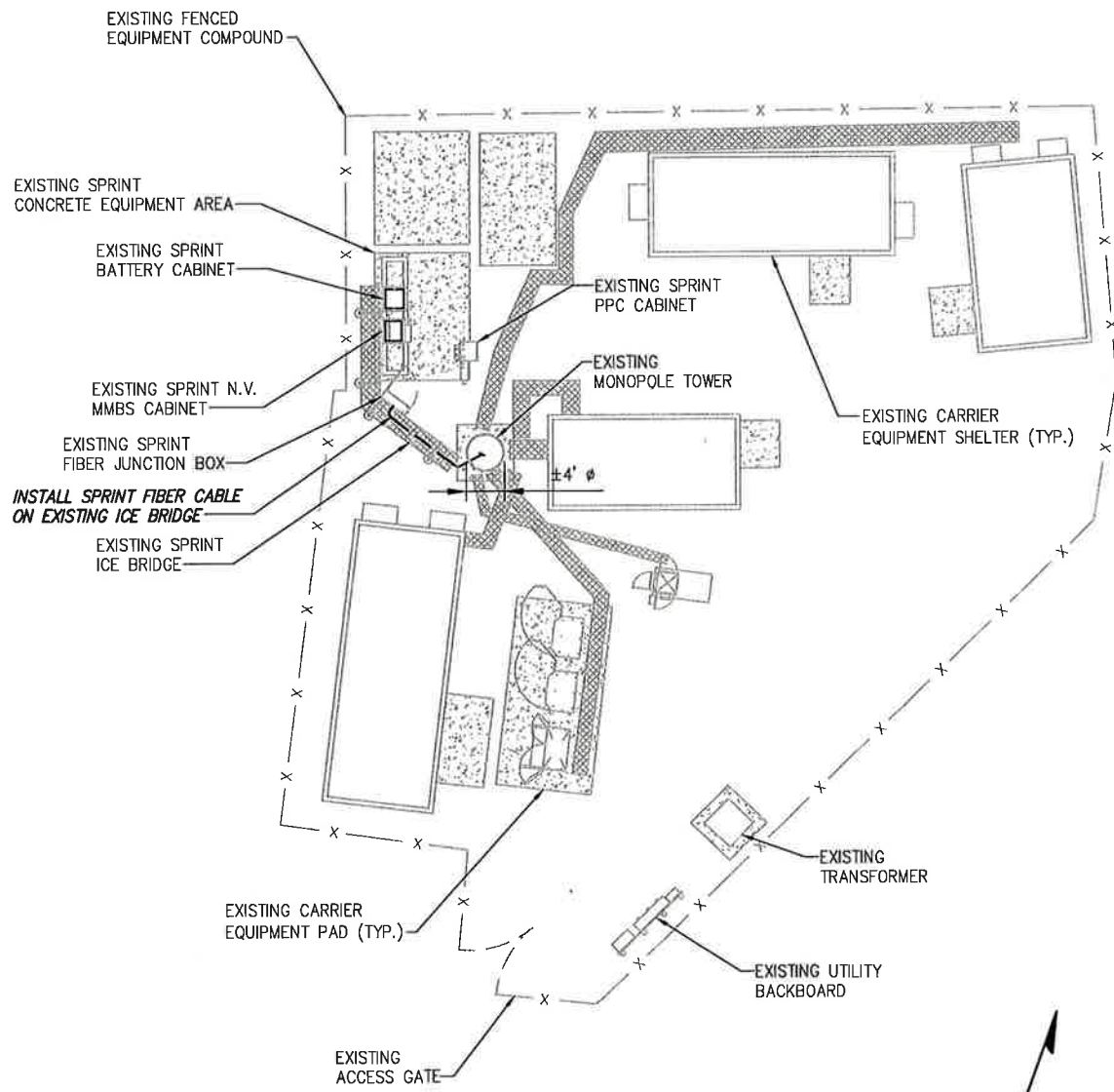
**SPRINT SPECIFICATIONS**

SHEET NUMBER:

**SP-3**

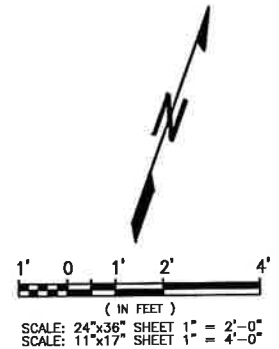
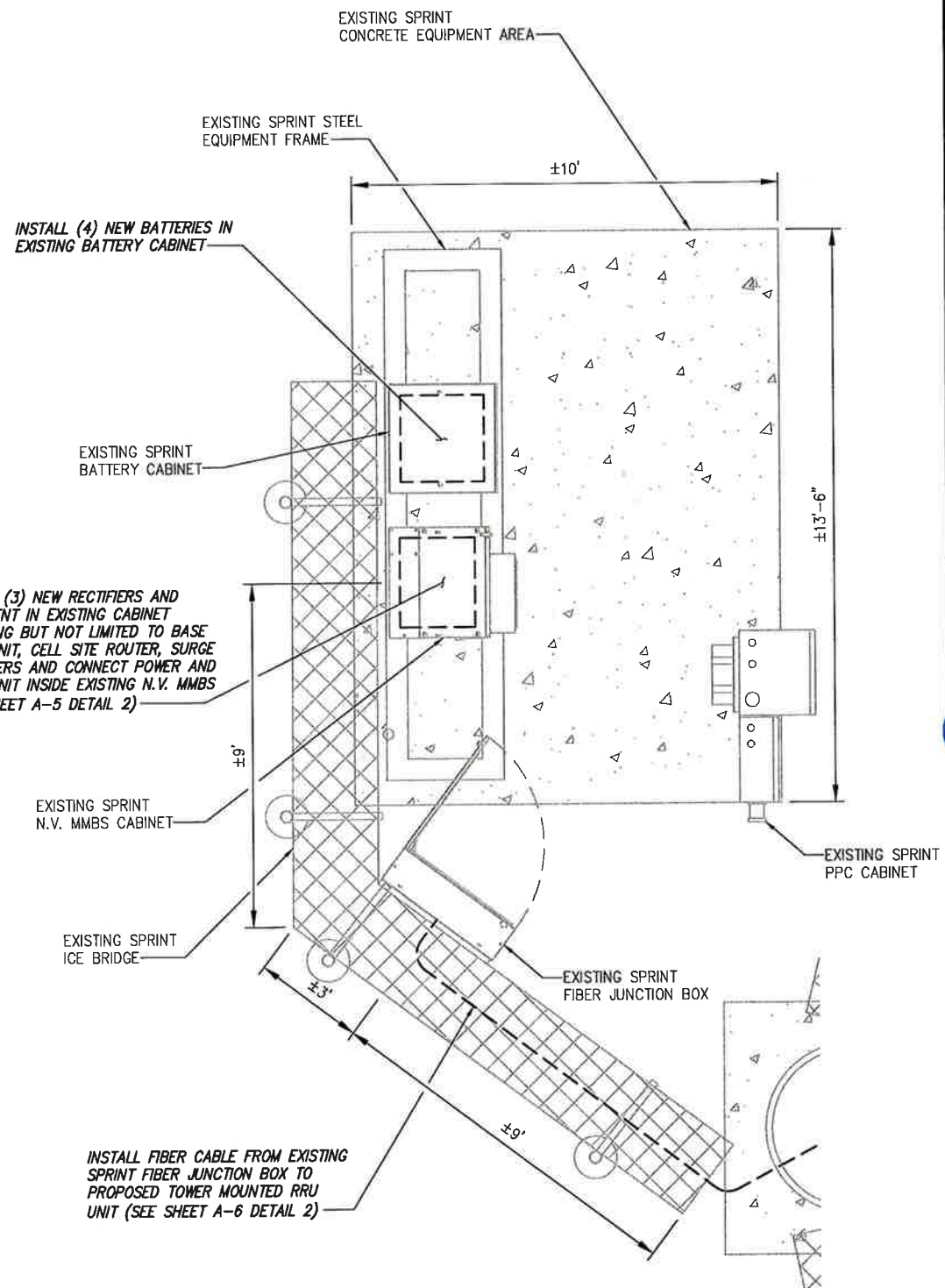


INFORMATION CONTAINED WITHIN DRAWINGS ARE BASED ON PROVIDED INFORMATION AND ARE NOT THE RESULT OF A FIELD SURVEY.



OVERALL SITE PLAN

SCALE: AS NOTED 1



SPRINT EQUIPMENT PLAN

SCALE: AS NOTED 2

PLANS PREPARED FOR:



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SITE NAME:

**TURKEY HILL**

SITE CASCADE:

**CT03XC336**

SITE ADDRESS:

**20 POST OFFICE LANE  
WESTPORT, CT 06880**

SHEET DESCRIPTION:

**SITE PLAN**

SHEET NUMBER:

**A-1**

PLANS PREPARED FOR:



PLANS PREPARED BY:

**INFINIGY** Design. Build. Deliver.  
 1033 Watervliet Shaker Rd  
 Albany, NY 12205  
 Office # (518) 690-0790  
 Fax # (518) 690-0793  
 JOB NUMBER 340-000

MLA PARTNER:

**AMERICAN TOWER CORPORATION**  
 10 PRESIDENTIAL WAY  
 WOBURN, MA 01801

ENGINEERING LICENSE:



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SITE NAME:

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SITE CASCADE:

**CT03XC336**

SITE ADDRESS:

**20 POST OFFICE LANE  
WESTPORT, CT 06880**

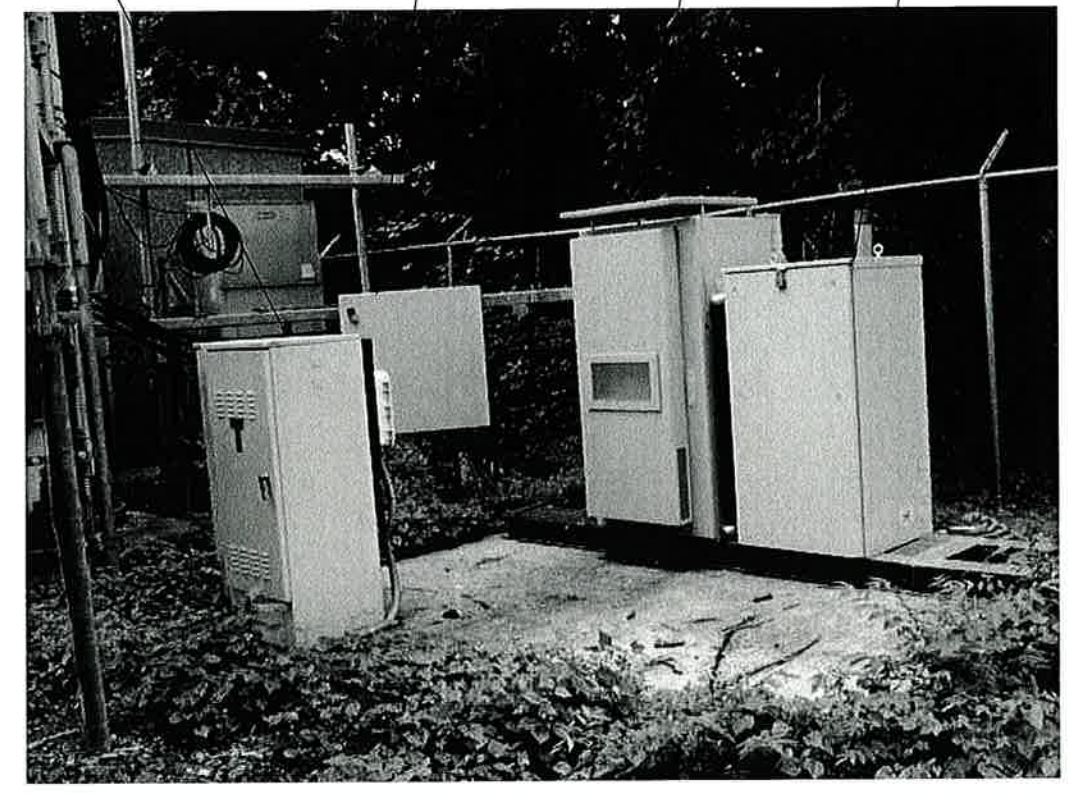
SHEET DESCRIPTION:

**EXISTING EQUIPMENT DETAILS**

SHEET NUMBER:

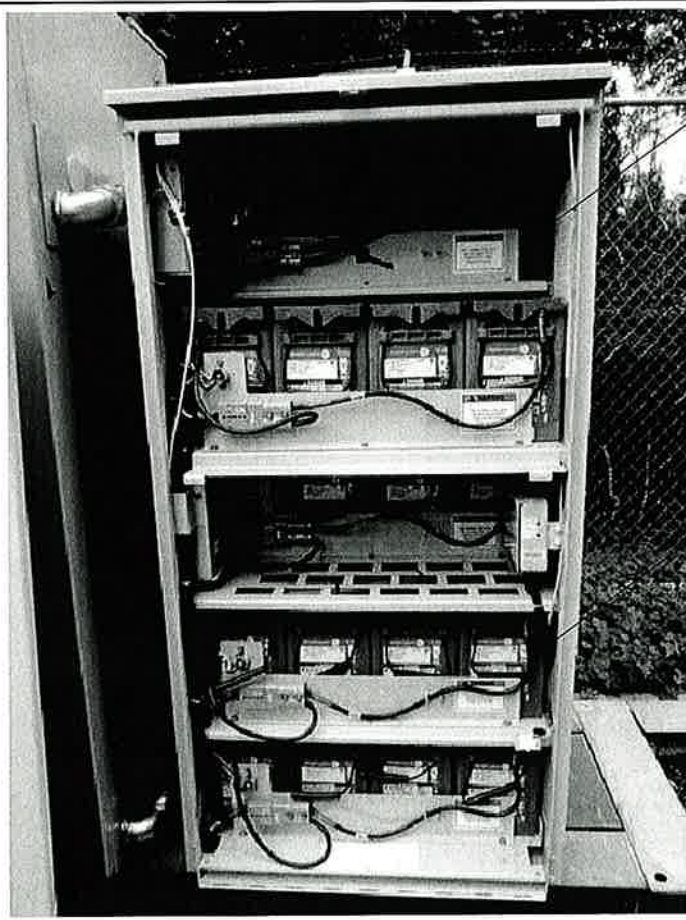
**A-1A**

EXISTING SPRINT PPC CABINET  
 EXISTING SPRINT FIBER JUNCTION BOX  
 EXISTING SPRINT N.V. MMBS CABINET  
 EXISTING SPRINT BATTERY CABINET



**EXISTING CABINET LINE-UP**

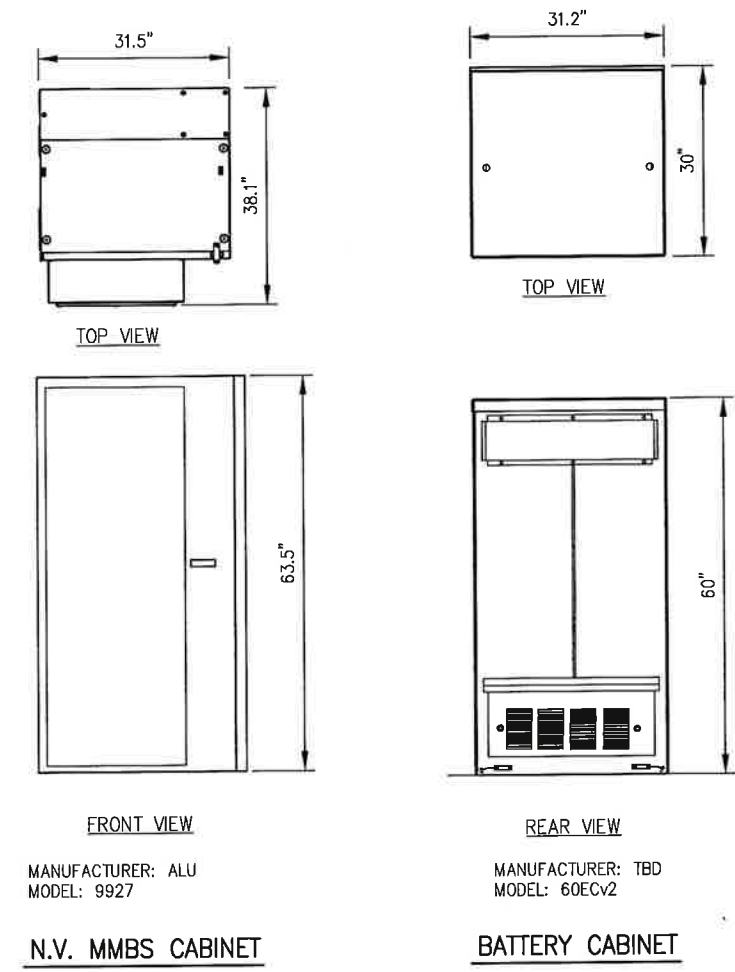
SCALE: AS NOTED 1



INSTALL (4) NEW BATTERIES IN EXISTING BATTERY CABINET  
 EXISTING SPRINT BATTERY CABINET  
 EXISTING BATTERY (TYP. OF (4) PER STRING)

**EXISTING BATTERY CABINET**

SCALE: AS NOTED 2



INFORMATION SHOWN ABOVE BASED ON INFORMATION CONTAINED WITHIN SPRINT N.V. CD'S. CONTRACTOR TO VERIFY IN FIELD EXACT MAKE AND MODEL.

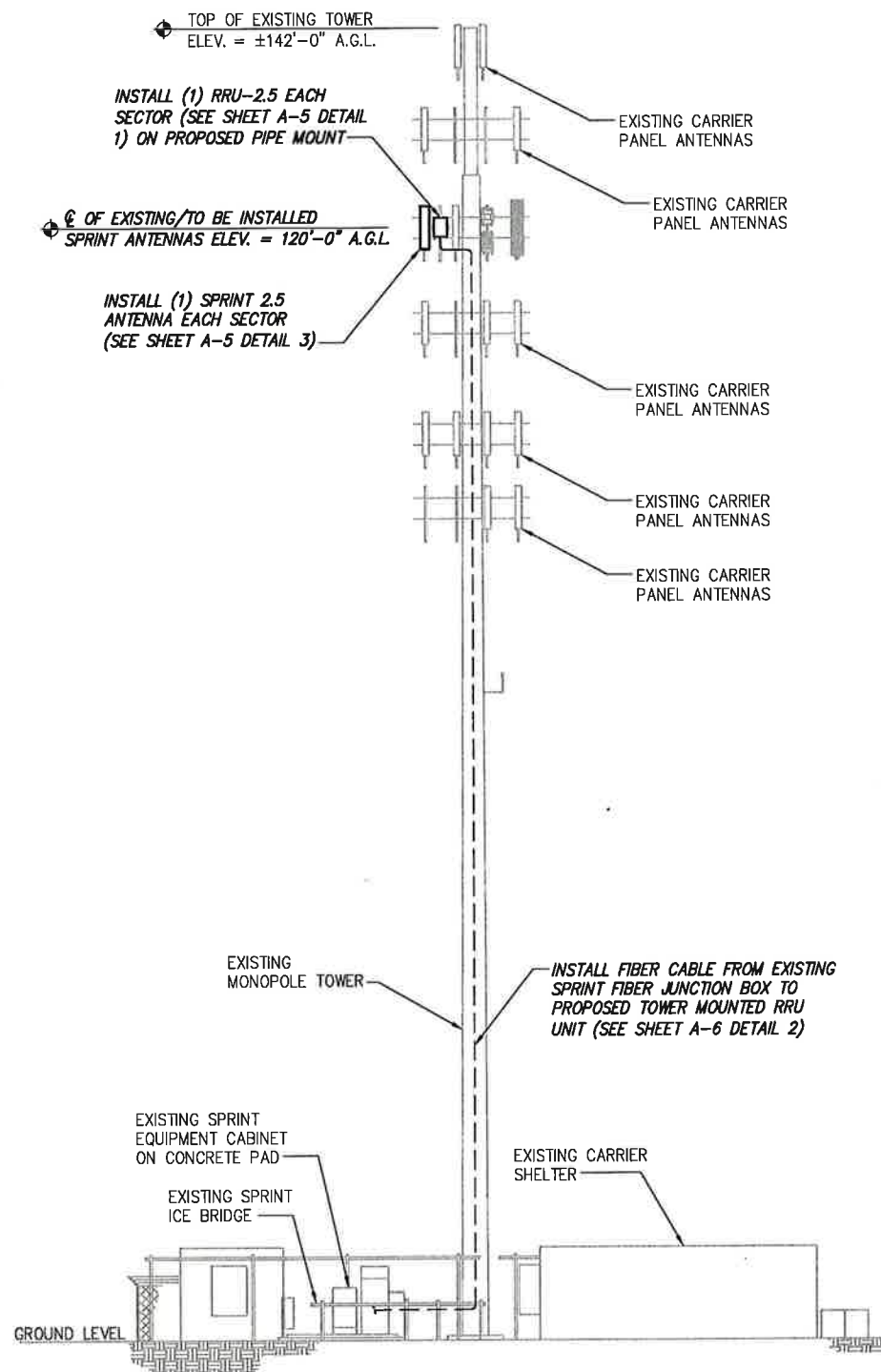
**EXISTING CABINET DETAIL**

SCALE: AS NOTED 3

**NOTE:**  
SPRINT TOWER TOP WORK CONTINGENT ON FOLLOWING:  
COMPLETION OF STRUCTURAL ANALYSIS PROVIDED BY  
AMERICAN TOWER CORP., COMPLETION OF ANTENNA/RRH  
MOUNTING ASSESSMENT (PROVIDED BY AE)

**NOTE:**  
INFINIGY ENGINEERING HAS NOT EVALUATED THE  
EXISTING TOWER OR MOUNT FOR THIS SITE, AND  
ASSUMES NO RESPONSIBILITY FOR ITS STRUCTURAL  
INTEGRITY. REFER TO STRUCTURAL ANALYSIS BY  
OTHERS PRIOR TO ANY CONSTRUCTION.

**NOTE:**  
SEE DETAIL 2 ON A-3  
FOR ANTENNA LAYOUT



NO PHOTO OF EXISTING PIPE MOUNT  
LOCATED WITHIN 2.5 AUDIT  
PACKAGE. LOCATION OF PROPOSED  
INSTALLATION BASED ON N.V. CDS

ALPHA

BETA



GAMMA

INSTALL (1) RRU-2.5 EACH  
SECTOR (SEE SHEET A-5 DETAIL  
1) ON PROPOSED PIPE MOUNT



INSTALL (1) RRU-2.5 EACH  
SECTOR (SEE SHEET A-5 DETAIL  
1) ON PROPOSED PIPE MOUNT

INSTALL (1) SPRINT 2.5  
ANTENNA EACH SECTOR  
(SEE SHEET A-5 DETAIL 3)

EXISTING EMPTY  
PIPE MOUNT

PLANS PREPARED FOR:

**Sprint**  
6580 Sprint Parkway  
Overland Park, Kansas 66251

PLANS PREPARED BY:

**INFINIGY** Design.  
Build.  
Deliver.  
1033 Watervliet Shaker Rd  
Albany, NY 12205  
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Fax # (518) 690-0793  
JOB NUMBER 340-000

MLA PARTNER:

**AMERICAN  
TOWER  
CORPORATION**  
10 PRESIDENTIAL WAY  
WOBURN, MA 01801

ENGINEERING LICENSE:



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FOR PERMIT	07/10/14	ASW	0

SITE NAME:

**TURKEY HILL**

SITE CASCADE:

**CT03XC336**

SITE ADDRESS:

**20 POST OFFICE LANE  
WESTPORT, CT 06880**

SHEET DESCRIPTION:

**TOWER ELEVATION  
& CABLE PLAN**

SHEET NUMBER:

**A-2**

TOWER ELEVATION

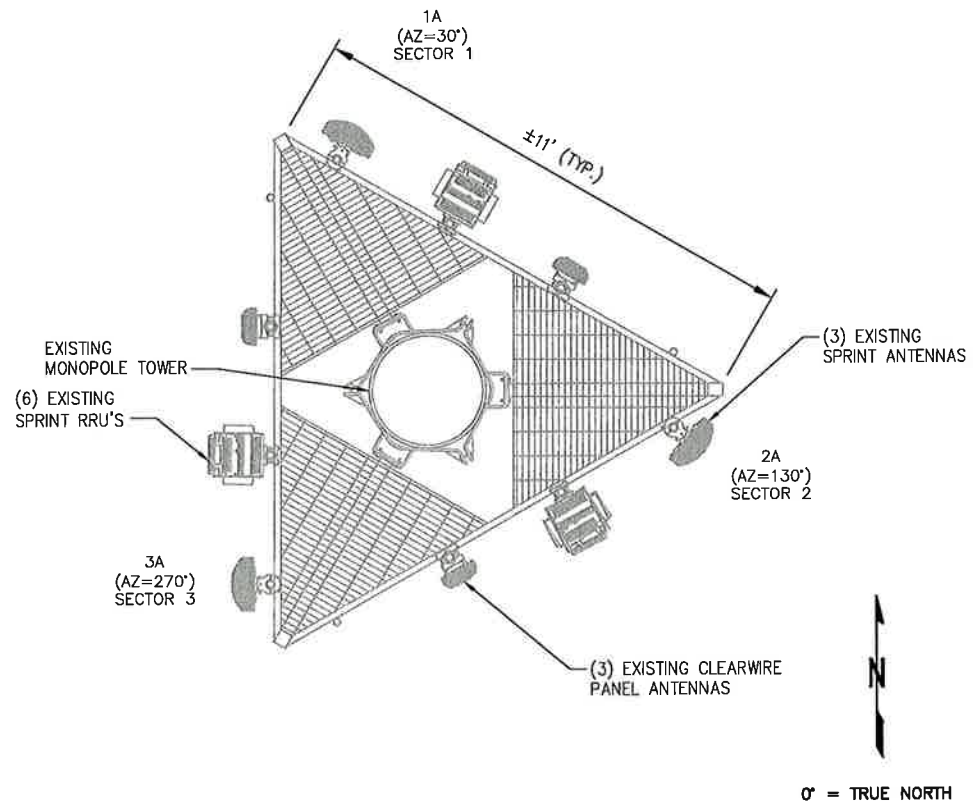
NO SCALE

1

PHOTOS

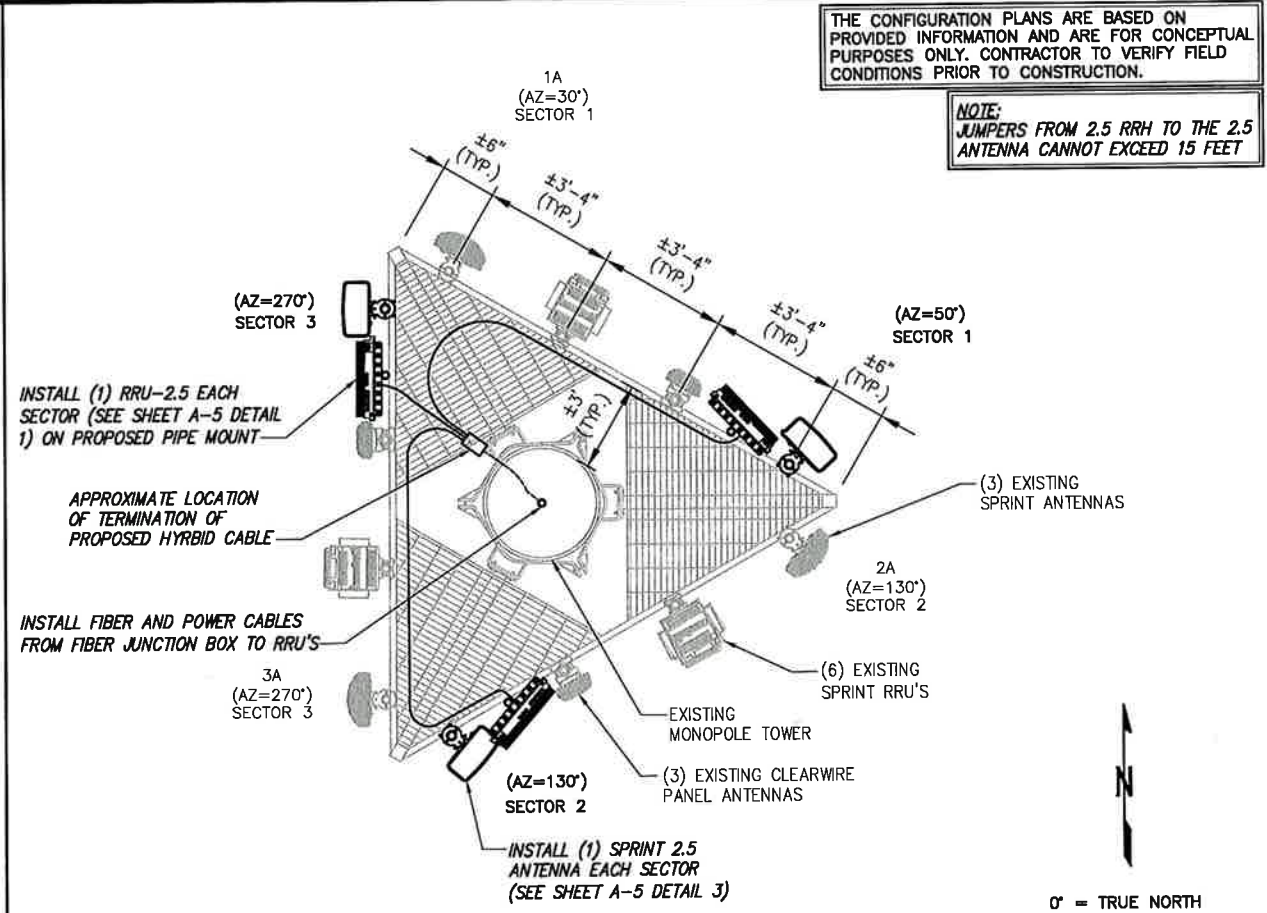
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2



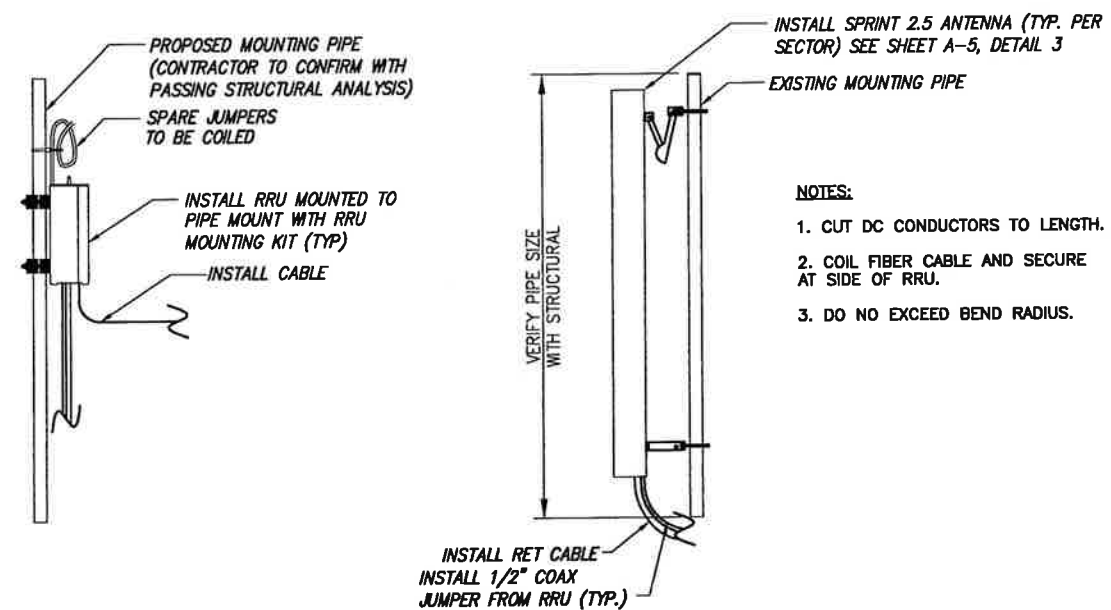
EXISTING ANTENNA & RRU LAYOUT

NO SCALE 1



FINAL ANTENNA LAYOUT

NO SCALE 2



- NOTES:**
1. CUT DC CONDUCTORS TO LENGTH.
  2. COIL FIBER CABLE AND SECURE AT SIDE OF RRU.
  3. DO NOT EXCEED BEND RADIUS.

**NOTE:** CONTRACTOR TO POSITION RRU ON MOUNT BEHIND ANTENNA SUCH THAT THE RRU DOES NOT INTERFERE WITH THE EXISTING PLATFORM/T-ARM MOUNTING HARDWARE.

**NOTE:** SPARE DC CABLES ARE COILED UP ON NV RRHS AT SPRINT ARRAY. THESE ARE TO BE USED TO POWER UP THE 2.5 RRHS AND TIED INTO EXISTING DC BREAKERS INSIDE THE FIBER JUNCTION BOX LOCATED AT EQUIPMENT.

**NOTE:** THE DIAGRAM IS FOR CONCEPTUAL PURPOSES ONLY. CONTRACTOR IS TO REFER TO PASSING STRUCTURAL ANALYSIS FOR ANTENNA AND RRU MOUNTING DETAILS.

DETAIL NOT USED

NO SCALE 3

TYPICAL ANTENNA & RRU MOUNTING DETAILS

NO SCALE 4

THE CONFIGURATION PLANS ARE BASED ON PROVIDED INFORMATION AND ARE FOR CONCEPTUAL PURPOSES ONLY. CONTRACTOR TO VERIFY FIELD CONDITIONS PRIOR TO CONSTRUCTION.

**NOTE:** JUMPERS FROM 2.5 RRU TO THE 2.5 ANTENNA CANNOT EXCEED 15 FEET

PLANS PREPARED FOR:

**Sprint**  
6580 Sprint Parkway  
Overland Park, Kansas 66251

PLANS PREPARED BY:

**INFINIGY** Design. Build. Deliver.  
1033 Watervliet Shaker Rd  
Albany, NY 12205  
Office # (518) 690-0790  
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MLA PARTNER:

**AMERICAN TOWER CORPORATION**  
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FOR PERMIT	07/10/14	ASW	0

SITE NAME:

**TURKEY HILL**

SITE CASCADE:

**CT03XC336**

SITE ADDRESS:

20 POST OFFICE LANE  
WESTPORT, CT 06880

SHEET DESCRIPTION:

**ANTENNA LAYOUT & MOUNTING DETAILS**

SHEET NUMBER:

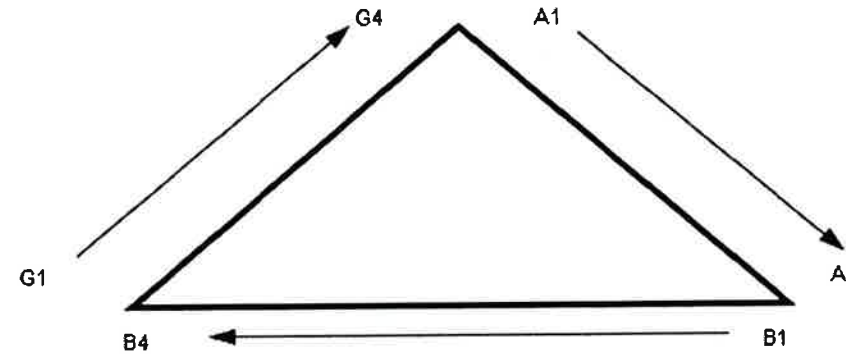
**A-3**

NV CABLES				
BAND	INDICATOR		PORT	COLOR
800-1	YEL	GRN	NV-1	GRN
1900-1	YEL	RED	NV-2	BLU
1900-2	YEL	BRN	NV-3	BRN
1900-3	YEL	BLU	NV-4	WHT
1900-4	YEL	SLT	NV-5	RED
800-2	YEL	ORG	NV-6	SLT
SPARE	YEL	WHT	NV-7	PP
2500	YEL	PPL	NV-8	ORG

HYBRID	
HYBRID	COLOR
1	GRN
2	BLU
3	BRN
4	WHT
5	RED
6	SLT
7	PP
8	ORG

2.5 Band		
2500 Radio 1	COLOR	
YEL	WHT	GRN
YEL	WHT	BLU
YEL	WHT	BRN
YEL	WHT	WHT
YEL	WHT	RED
YEL	WHT	SLT
YEL	WHT	PP
YEL	WHT	ORG

Figure 1: Antenna Orientation



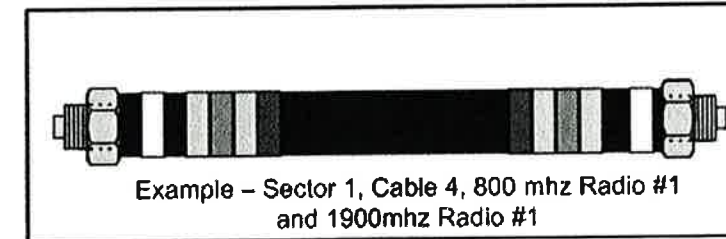
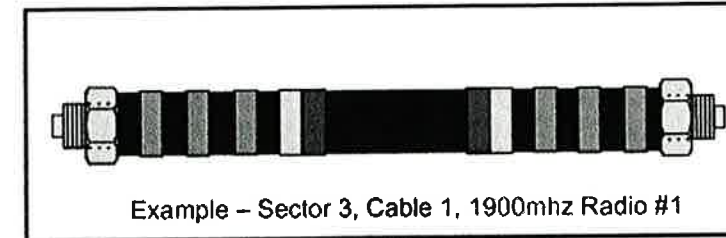
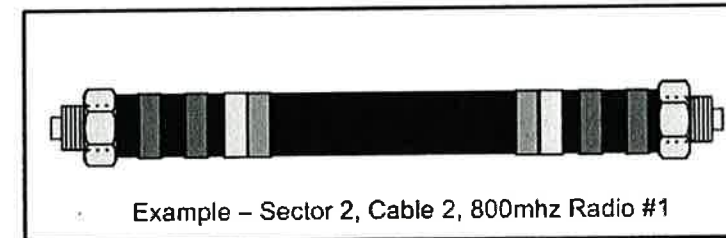
NOTES:

- ALL CABLES SHALL BE MARKED WITH 2" WIDE, UV STABILIZED, UL APPROVED TAPE.
- THE FIRST RING SHALL BE CLOSEST TO THE END OF THE CABLE AND SPACED APPROXIMATELY 2" FROM THE END CONNECTOR, WEATHERPROOFING, OR BREAK-OUT CYLINDER. THERE SHALL BE A 1" SPACE BETWEEN EACH RING FOR THE CABLE IDENTIFIER, AND NO SPACES BETWEEN THE FREQUENCY BANDS.
- A 2" GAP SHALL SEPARATE THE CABLE COLOR CODE FROM THE FREQUENCY COLOR CODE. THE 2" COLOR RINGS FOR THE FREQUENCY CODE SHALL BE PLACED NEXT TO EACH OTHER WITH NO SPACES.
- THE 2" COLORED TAPE(S) SHALL EACH BE WRAPPED A MINIMUM OF 3 TIMES AROUND THE INDIVIDUAL CABLES, AND THE TAPE SHALL BE KEPT IN THE SAME LOCATION AS MUCH AS POSSIBLE.
- SITES WITH MORE THAN FOUR (4) SECTORS WILL REQUIRE ADDITIONAL RINGS FOR EACH SECTOR, FOLLOWING THE PATTERN. HIGH CAPACITY SITES WILL USE THE NEXT COLOR IN THE SEQUENCE FOR ADDITIONAL CABLES IN EACH SECTOR.
- HYBRID FIBER CABLE SHALL BE SECTOR IDENTIFIED INSIDE THE CABINET ON FREQUENCY BUNDLES, ON THE SEALTITE, ON THE MAIN LINE UPON EXIT OF SEALTITE, AND BEFORE AND AFTER THE BREAKOUT UNIT (MEDUSA), AS WELL AS BEFORE AND AFTER ANY ENTRANCE OR EXIT.
- HFC "MAIN TRUNK" WILL NOT BE MARKED WITH THE FREQUENCY CODES, AS IT CONTAINS ALL FREQUENCIES.
- INDIVIDUAL POWER PAIRS AND FIBER BUNDLES SHALL BE LABELED WITH BOTH THE CABLE AND FREQUENCY.

Sector	Cable	First Ring	Second Ring	Third Ring
1 Alpha	1	Green	No Tape	No Tape
	2	Blue	No Tape	No Tape
	3	White	No Tape	No Tape
	4	White	No Tape	No Tape
	5	Red	No Tape	No Tape
	6	Grey	No Tape	No Tape
	7	Purple	No Tape	No Tape
	8	Orange	No Tape	No Tape
2 Beta	1	Green	Green	No Tape
	2	Blue	Blue	No Tape
	3	White	White	No Tape
	4	White	White	No Tape
	5	Red	Red	No Tape
	6	Grey	Grey	No Tape
	7	Purple	Purple	No Tape
	8	Orange	Orange	No Tape
3 Gamma	1	Green	Green	Green
	2	Blue	Blue	Blue
	3	White	White	White
	4	White	White	White
	5	Red	Red	Red
	6	Grey	Grey	Grey
	7	Purple	Purple	Purple
	8	Orange	Orange	Orange

NV FREQUENCY	INDICATOR	ID
800-1	YEL	GRN
1900-1	YEL	RED
1900-2	YEL	BRN
1900-3	YEL	BLU
1900-4	YEL	SLT
800-1	YEL	ORG
RESERVED	YEL	WHT
RESERVED	YEL	PPL

2.5 FREQUENCY	INDICATOR	ID
2500 -1	YEL	WHT
2500 -2	YEL	WHT
2500 -3	YEL	WHT
2500 -4	YEL	WHT
2500 -5	YEL	WHT
2500 -6	YEL	WHT
2500 -7	YEL	WHT
2500 -8	YEL	WHT



PLANS PREPARED FOR:

6580 Sprint Parkway  
Overland Park, Kansas 66251

PLANS PREPARED BY:

1033 Watervliet Shaker Rd  
Albany, NY 12205  
Office # (518) 690-0790  
Fax # (518) 690-0793  
JOB NUMBER 340-000

MLA PARTNER:

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**TURKEY HILL**

SITE CASCADE:

**CT03XC336**

SITE ADDRESS:

20 POST OFFICE LANE  
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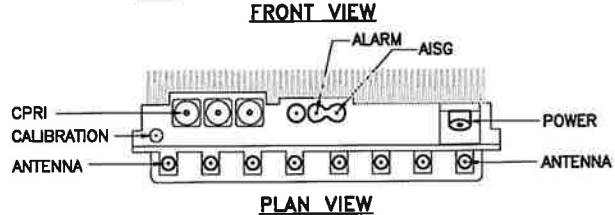
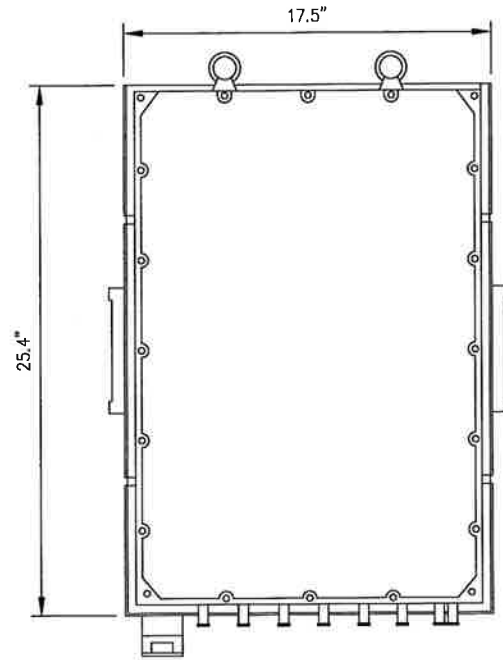
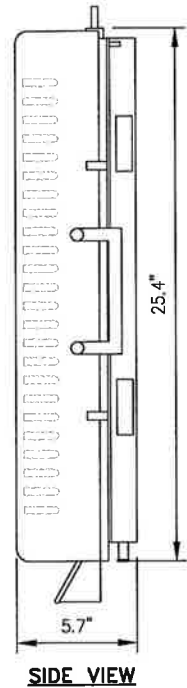
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**COLOR CODING AND NOTES**

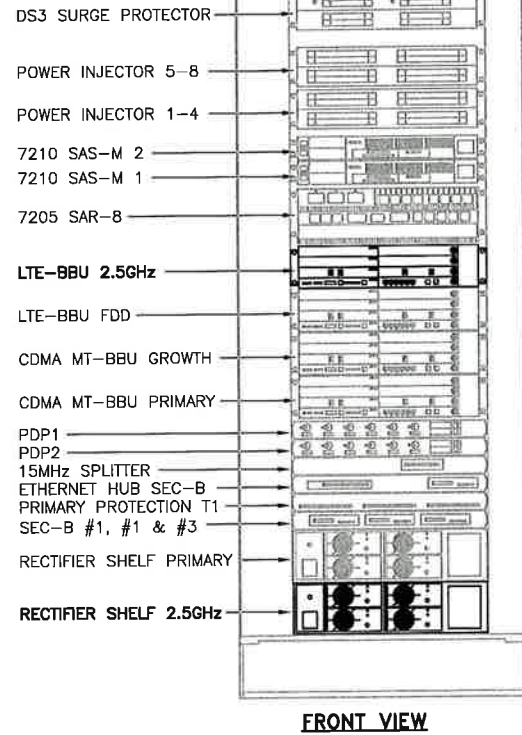
SHEET NUMBER:

**A-4**

RRU: ALCATEL LUCENT TD-RRH8X20  
 COLOR: LIGHT GREY  
 WEIGHT: 70 LBS.



**NOTES**  
 COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRU'S RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING. DO NOT OPEN RRU PACKAGES IN THE RAIN.



2.5 RRU

NO SCALE

1

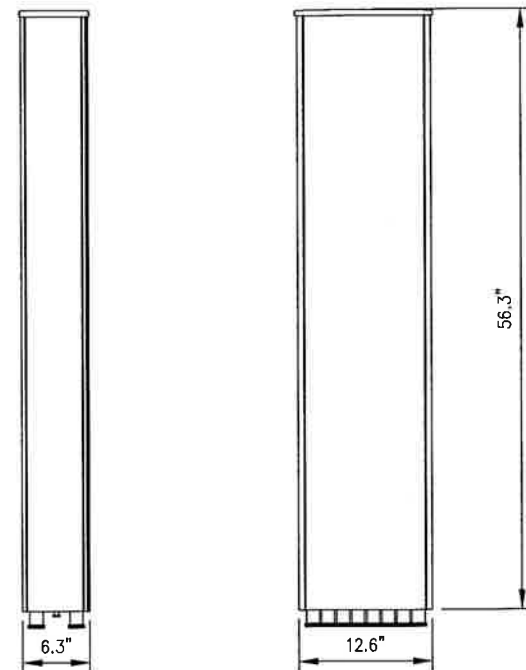
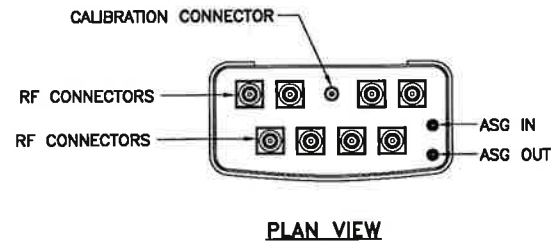
NEW EQUIPMENT IN EXISTING CABINET

NO SCALE

2

ANTENNA: RFS APXVTM14-C-I20

RADOME MATERIAL: ASA  
 RADOME COLOR: LIGHT GREY  
 DIMENSIONS, HxWxD.in(mim): 56.3"x12.6"x6.3" (1430x320x160mm)  
 WEIGHT: 52.9 lbs  
 CONNECTORS: (8) 4.1/9.5 DIN FEMALE  
 (1) NF - CALIBRATION CONNECTOR



2.5 ANTENNA

NO SCALE

3

**INFINIGY ESTIMATES**

* Riser Cable Length Estimate		
	Units	
At Grade	10	Feet
Vertical Rise	120	Feet
At Sprint Centerline	0	Feet
Sub-Total	130	Feet
15% Buffer	20	Feet
<b>Total</b>	<b>150</b>	<b>Feet</b>

ABOVE LENGTH IS AN ESTIMATE AND SHOULD BE VERIFIED IN FIELD PRIOR TO ORDERING MATERIALS.

** Hybrid/Fiber Jumper Length Estimate		
	Units	
From Connector To RRU	34	Feet

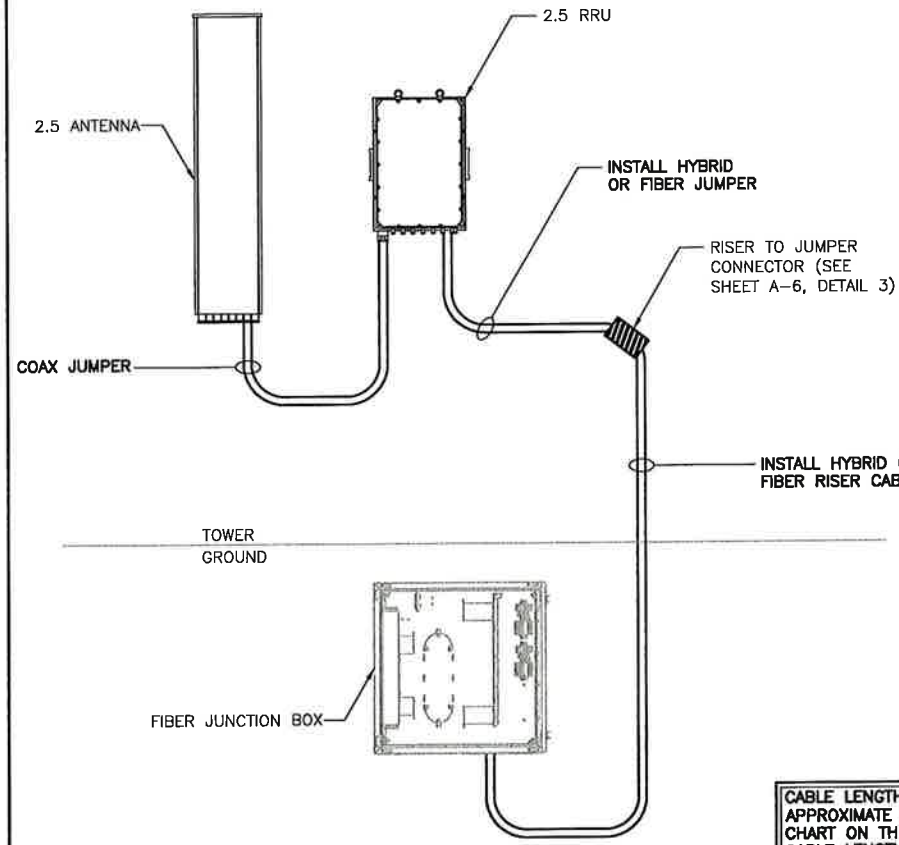
ABOVE LENGTH IS AN ESTIMATE AND SHOULD BE VERIFIED IN FIELD PRIOR TO ORDERING MATERIALS.

Coax Jumper Length Estimate		
	Units	
From RRU to Antenna	5	Feet

ABOVE LENGTH IS AN ESTIMATE AND SHOULD BE VERIFIED IN FIELD PRIOR TO ORDERING MATERIALS.

**NOTE:**  
 \* & \*\*: REFERENCE SHEET A-6, DETAIL 1 FOR CORRESPONDING PART NUMBERS.

**CABLE LENGTH NOTE:**  
 APPROXIMATE LENGTH OF NEW CABLE IS SHOWN IN CHART ON THIS SHEET. CONTRACTOR TO CONFIRM EXACT CABLE LENGTH REQUIRED PRIOR TO ORDERING MATERIALS.



CABLING SCHEMATIC

NO SCALE

4

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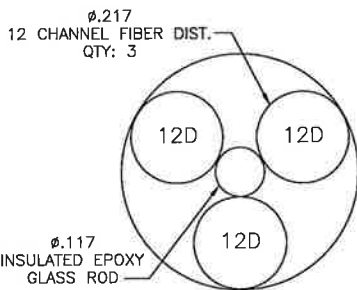
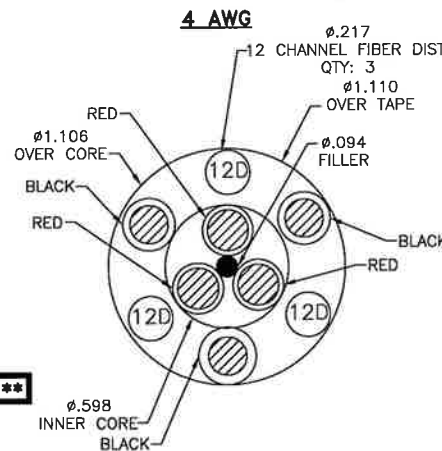
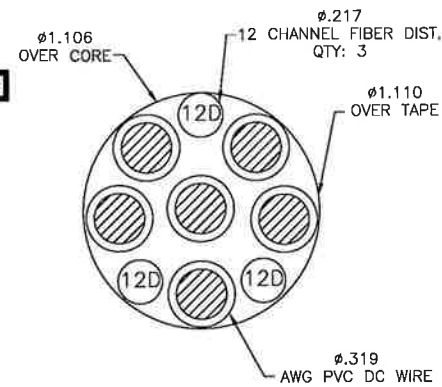
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SHEET DESCRIPTION:  
**EQUIPMENT & MOUNTING DETAILS**

SHEET NUMBER:  
**A-5**

**RFS HYBRIFLEX RISER CABLE SCHEDULE**

Fiber Only (Existing DC Power)	Hybrid cable MN: HB058-M12-050F 12x multi-mode fiber pairs, Top: Outdoor protected connectors, Bottom: LC Connectors, 5/8 cable, 50 ft	50 ft
	MN: HB058-M12-075F	75 ft
	MN: HB058-M12-100F	100 ft
	MN: HB058-M12-125F	125 ft
	MN: HB058-M12-150F	150 ft
	MN: HB058-M12-175F	175 ft
8 AWG Power	Hybrid cable MN: HB114-08U3M12-050F 3x 8 AWG power pairs, 12x multi-mode fiber pairs, Outdoor rated connectors & LC Connectors, 1 1/4 cable, 50 ft	50 ft
	MN: HB114-08U3M12-075F	75 ft
	MN: HB114-08U3M12-100F	100 ft
	MN: HB114-08U3M12-125F	125 ft
	MN: HB114-08U3M12-150F	150 ft
	MN: HB114-08U3M12-175F	175 ft
6 AWG Power	Hybrid cable MN: HB114-13U3M12-225F 3x 6 AWG power pair, 12x multi-mode fiber pairs, Outdoor rated connectors & LC Connectors, 1 1/4 cable, 225 ft	225 ft
	MN: HB114-13U3M12-250F	250 ft
	MN: HB114-13U3M12-275F	275 ft
	MN: HB114-13U3M12-300F	300 ft
4 AWG Power	Hybrid cable MN: HB114-21U3M12-325F 3x 4 AWG power pair, 12x multi-mode fiber pairs, Outdoor rated connectors & LC Connectors, 1 1/4 cable, 325 ft	325 ft
	MN: HB114-21U3M12-350F	350 ft
	MN: HB114-21U3M12-375F	375 ft



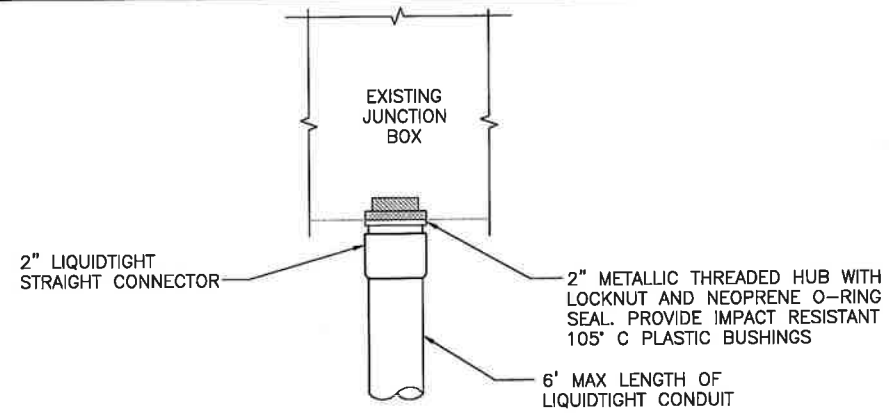
**RFS HYBRIFLEX JUMPER CABLE SCHEDULE**

Fiber Only	Hybrid Jumper cable MN: HBF012-M3-5F1 5 ft, 3x multi-mode fiber pairs, Outdoor & LC connectors, 1/2 cable	5 ft
	MN: HBF012-M3-10F1	10 ft
	MN: HBF012-M3-15F1	15 ft
	MN: HBF012-M3-20F1	20 ft
	MN: HBF012-M3-25F1	25 ft
	MN: HBF012-M3-30F1	30 ft
8 AWG Power	Hybrid Jumper cable MN: HBF058-08U1M3-5F1 5 ft, 1x 8 AWG power pair, 3x multi-mode fiber pairs, Outdoor & LC Connectors, 5/8 cable	5 ft
	MN: HBF058-08U1M3-10F1	10 ft
	MN: HBF058-08U1M3-15F1	15 ft
	MN: HBF058-08U1M3-20F1	20 ft
	MN: HBF058-08U1M3-25F1	25 ft
	MN: HBF058-08U1M3-30F1	30 ft
6 AWG Power	Hybrid Jumper cable MN: HBF058-13U1M3-5F1 5 ft, 1x 6 AWG power pair, 3x multi-mode fiber pairs, Outdoor & LC Connectors, 5/8 cable	5 ft
	MN: HBF058-13U1M3-10F1	10 ft
	MN: HBF058-13U1M3-15F1	15 ft
	MN: HBF058-13U1M3-20F1	20 ft
	MN: HBF058-13U1M3-25F1	25 ft
	MN: HBF058-13U1M3-30F1	30 ft
4 AWG Power	Hybrid Jumper cable MN: HBF078-21U1M3-5F1 5 ft, 1x 4 AWG power pair, 3x multi-mode fiber pairs, Outdoor & LC Connectors, 7/8 cable	5 ft
	MN: HBF078-21U1M3-10F1	10 ft
	MN: HBF078-21U1M3-15F1	15 ft
	MN: HBF078-21U1M3-20F1	20 ft
	MN: HBF078-21U1M3-25F1	25 ft
	MN: HBF078-21U1M3-30F1	30 ft

**NOTE:**  
SPRINT CM TO CONFIRM HYBRID OR FIBER RISER CABLE AND HYBRID OR FIBER JUMPER CABLE MODEL NUMBERS IF HYBRID CABLES ARE REQUIRED BEFORE PREPARING BOM.

**2.5 CABLE CROSS SECTION DATA**

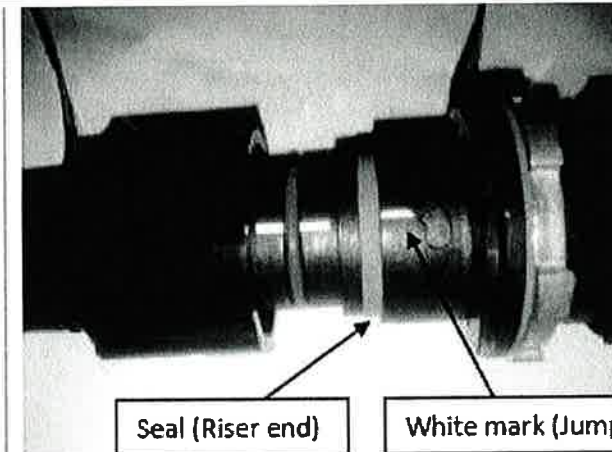
NO SCALE 1



**FIBER JUNCTION BOX PENETRATION**

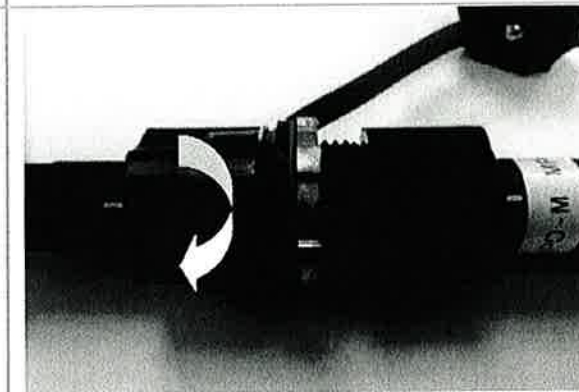
NO SCALE 2

**IMPORTANT!!** Line up white markings on jumper and riser IP-MPO connectors and slide the riser connector to the jumper connector. Push the white mark on the jumper connector flush again the red seal on the riser connector.



Seal (Riser end) White mark (Jumper end)

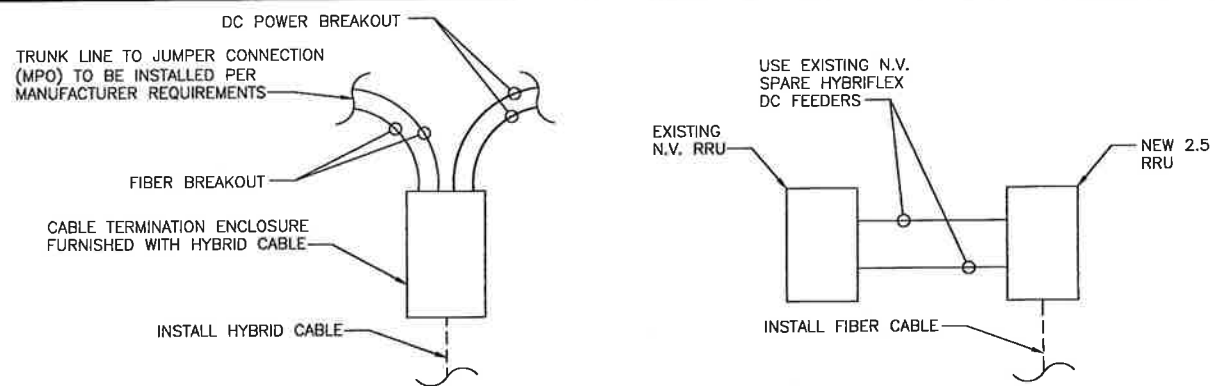
**IMPORTANT!!** Rotate the bayonet housing clock wise until you hear a click sound (means a good connection is in place).



INFORMATION BASED ON PROVIDED INFORMATION FROM ALCATEL-LUCENT 2.5 GHz UPGRADE INSTALLATION GUIDE.

**HYBRIFLEX RISER/JUMPER CONNECTION DETAIL**

NO SCALE 3



**2.5 HYBRID RISER CABLE (FIBER AND DC FEEDERS)**

**FIBER ONLY RISER CABLE**

**TRUNK LINE DETAIL (TYP.)**

NO SCALE 4

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SHEET NUMBER:

**A-6**



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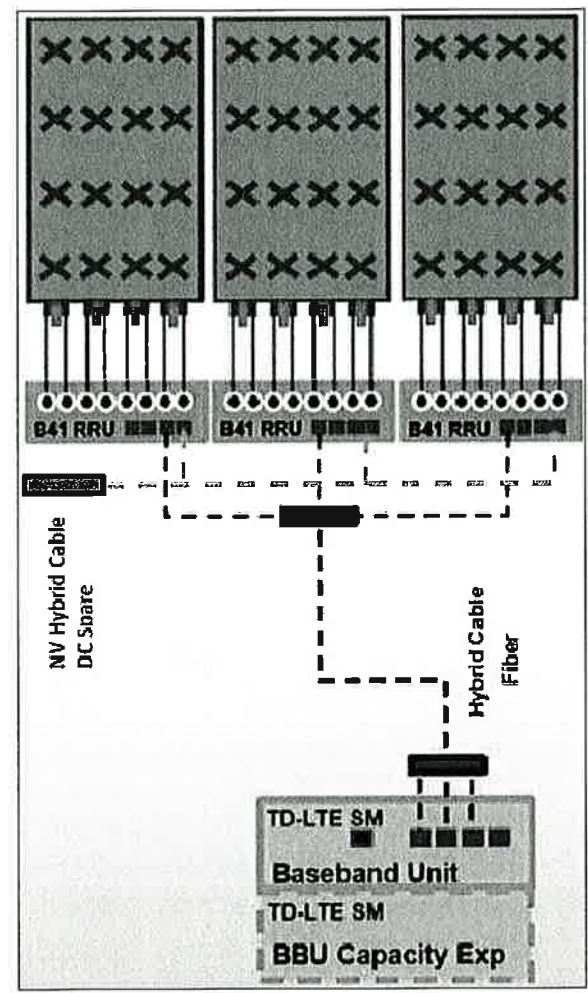
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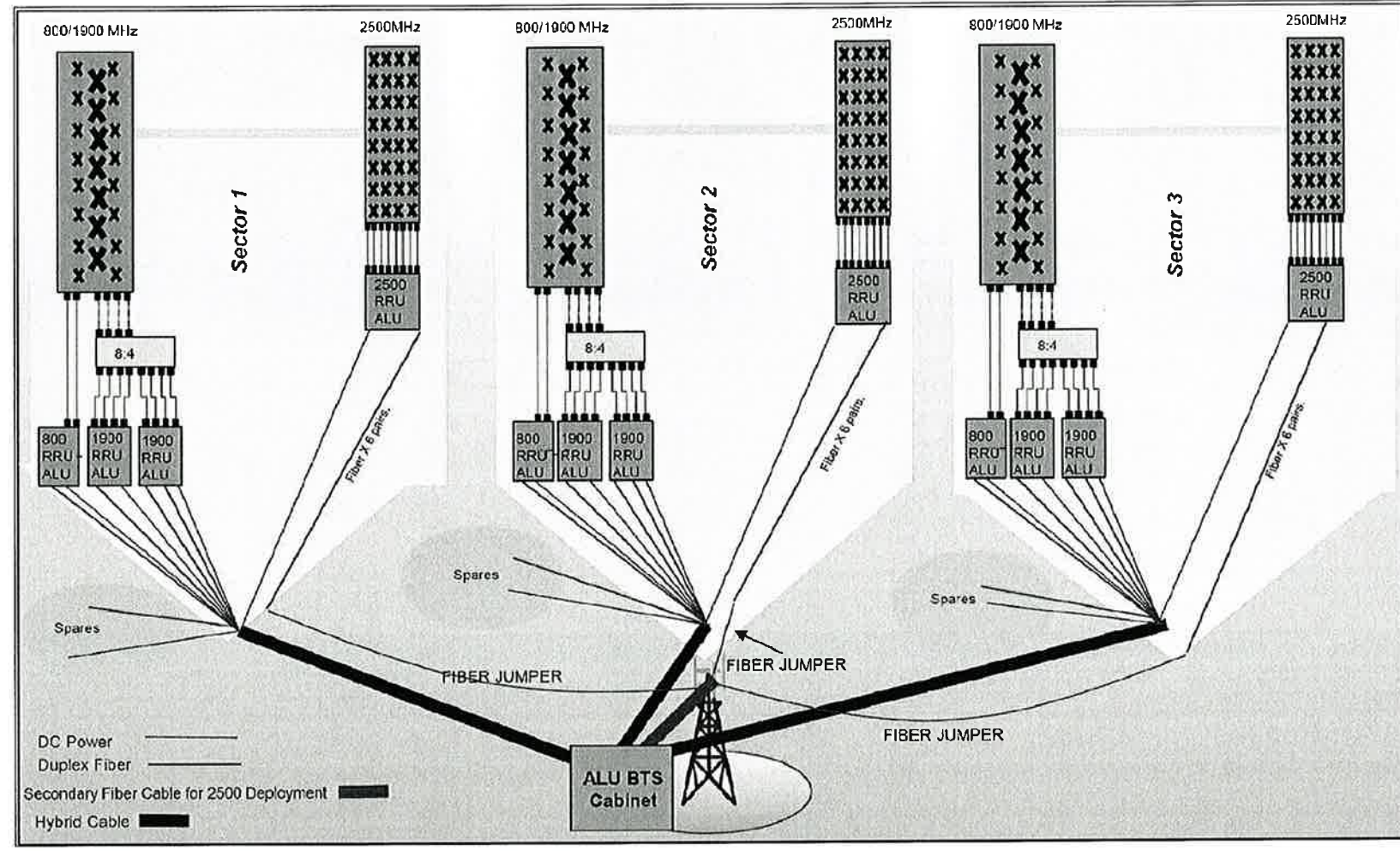
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**PLUMBING DIAGRAM**

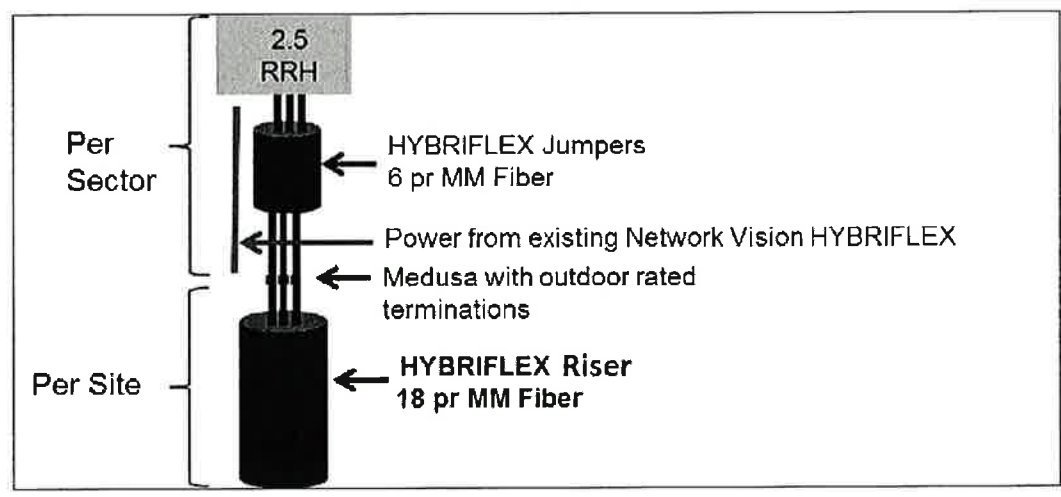
**A-7**



ALU 2.5 ALU SCENARIO 1



RAN WIRING DIAGRAM



RF 2.5 ALU SCENARIO 1

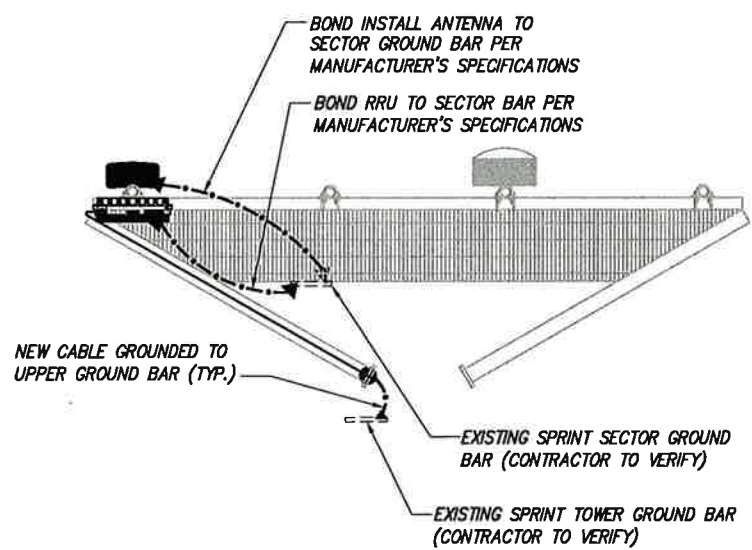




PLAN NOT USED

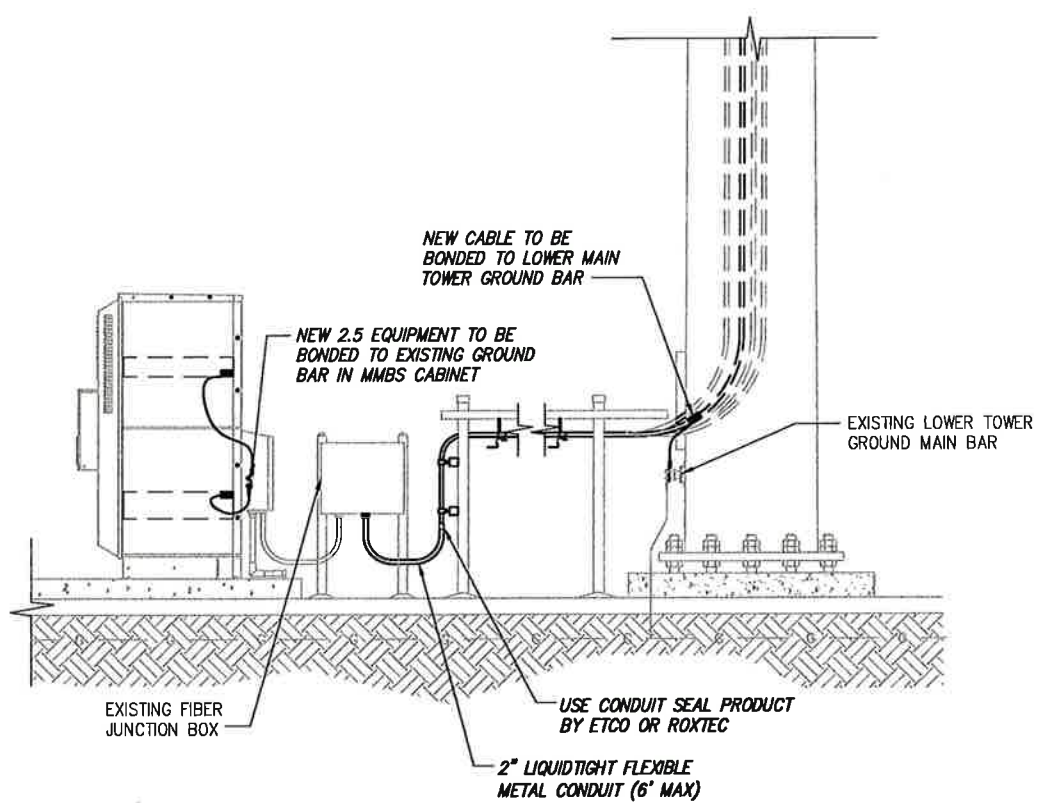
NO SCALE 1

- LEGEND:**
- ○ — EXISTING GROUND RING
  - CADWELD CONNECTION (EXOTHERMIC WELD)
  - ▲ MECHANICAL CONNECTION
  - ⊗ GROUND ROD
  - CABLE GROUND KIT



TYPICAL ANTENNA GROUNDING PLAN

NO SCALE 2



TYPICAL EQUIPMENT GROUNDING PLAN (ELEVATION)

NO SCALE 3

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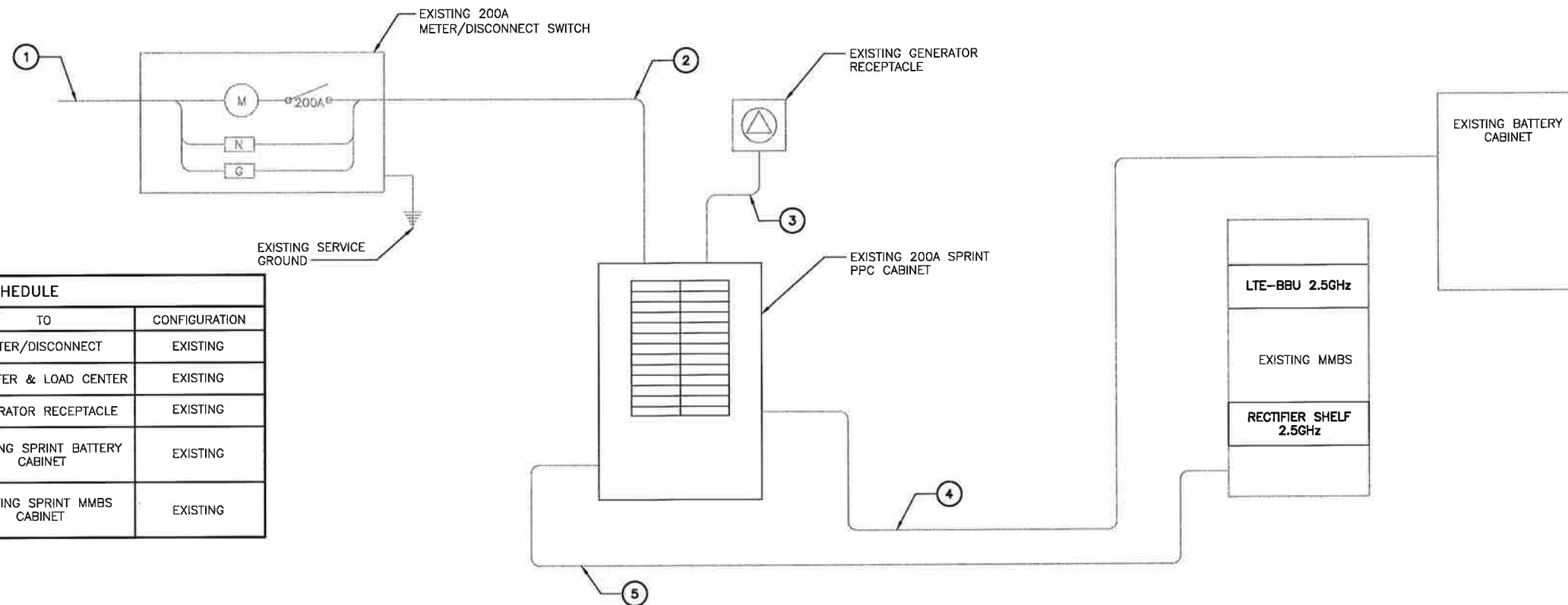
SHEET DESCRIPTION:

**ELECTRICAL & GROUNDING PLAN**

SHEET NUMBER:

**E-1**

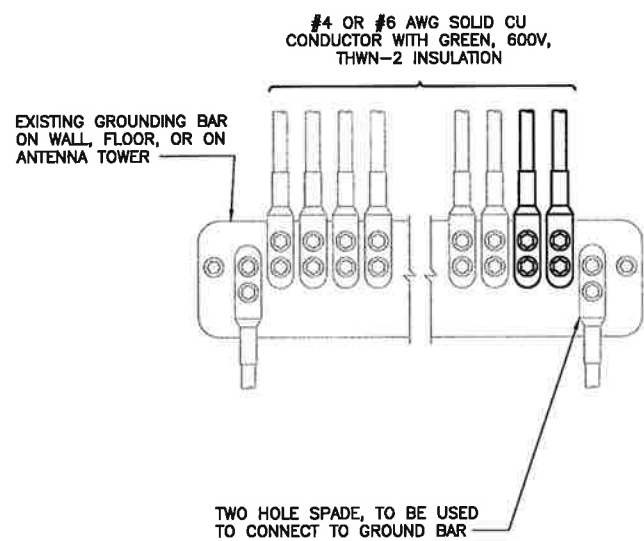
**NOTES**  
 CG SHALL REFERENCE ALL SPECS FOR "CONNECTING THE POWER SUPPLY" OF THE NEW INSTALLATION DOCUMENTS, FOR ALL CONNECTION SPECIFICATIONS.



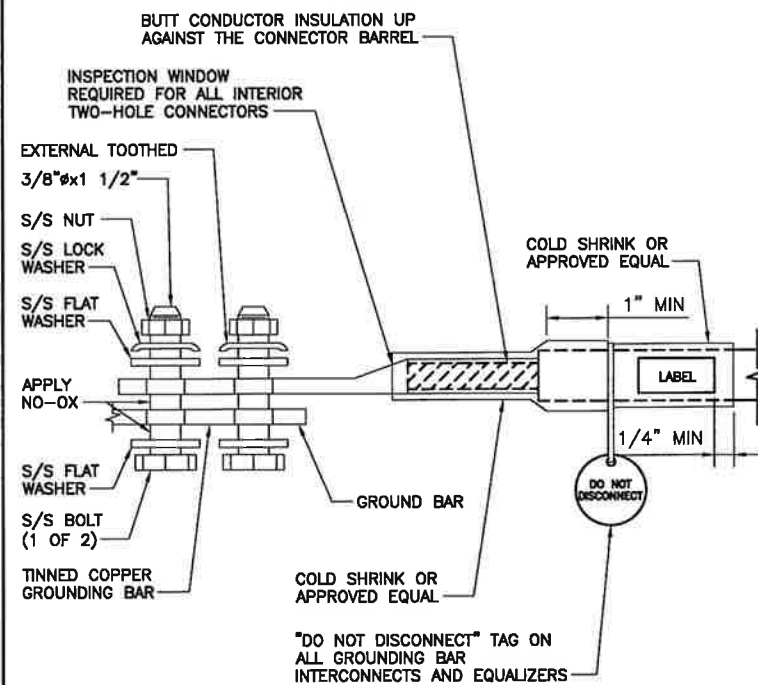
CIRCUIT SCHEDULE			
NO	FROM	TO	CONFIGURATION
1	UTILITY SOURCE	METER/DISCONNECT	EXISTING
2	METER/DISCONNECT	TRANSFER & LOAD CENTER	EXISTING
3	TRANSFER & LOAD CENTER	GENERATOR RECEPTACLE	EXISTING
4	TRANSFER & LOAD CENTER	EXISTING SPRINT BATTERY CABINET	EXISTING
5	TRANSFER & LOAD CENTER	EXISTING SPRINT MMBS CABINET	EXISTING

**ELECTRICAL ONE-LINE DIAGRAM**

NO SCALE 1

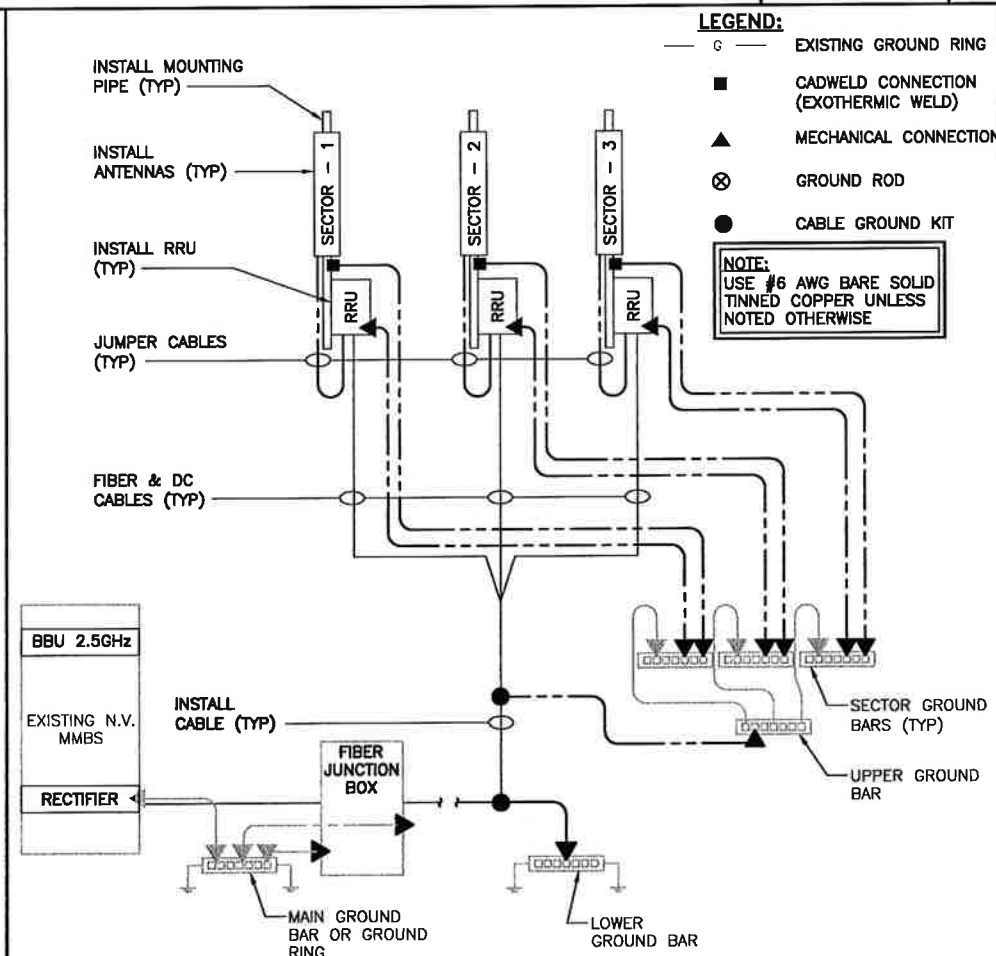


**NOTES**  
 1. APPLY NO-OX TO LUG AND BAR CONTACT SURFACE. DO NOT COAT INLINE LUG.  
 2. IF STOLEN GROUND BARS ARE ENCOUNTERED, CONTACT SPRINT CM FOR REPLACEMENT THREADED ROD KIT.



**TWO HOLE LUG**

NO SCALE 3



**GROUNDING RISER DIAGRAM**

NO SCALE 4

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 Fax # (518) 690-0793  
 JOB NUMBER 340-000

MLA PARTNER:  
**AMERICAN TOWER CORPORATION**  
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ENGINEERING LICENSE:  
  
 JOHN S. STEVENS  
 No. 24705  
 PROFESSIONAL ENGINEER

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SHEET DESCRIPTION:  
**ELECTRICAL & GROUNDING DETAILS**

SHEET NUMBER:  
**E-2**

**INSTALLATION OF GROUNDING CONDUCTOR TO GROUNDING BAR**

NO SCALE 2