

Transcend Wireless
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Chris Bisson
Real Estate Consultant

05/01/2014

Hand Delivered

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

RE: T-Mobile Northeast LLC notice of intent to modify an existing telecommunications facility located at 202 North Wawecus Hill Road, Norwich, CT 06360. Known to T-Mobile Northeast LLC as site CT11463C.

Dear Ms. Bachman:

In order to accommodate technological changes, implement Global System for Mobile Communications Access ("GSM") and/or Long Term Evolution ("LTE") capabilities, and enhance system performance in the state of Connecticut, T-Mobile Northeast LLC 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.

GSM 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.

As part of the project the new multi-mode 800/1900 antenna will replace existing antennas. These antennas will provide more flexibility for optimization by allowing fast and easy electrical tilt adjustment from remote location and will enable the transmission of multiple technologies from a single antenna. As T-Mobile Northeast LLC network evolves to meet the demands of its customers, it is essential for T-Mobile Northeast LLC to install modern equipment and antennas in order to provide reliable wireless voice and data services. The proposed equipment will include multi-mode radios that will allow T-Mobile Northeast LLC to transmit at different frequencies using different technologies, including LTE technology. Likewise, the proposed antennas are quad-pole multi-band

high gain antennas that will allow T-Mobile Northeast LLC to operate using its multiple frequency bands and technologies, including LTE technology. The proposed equipment and antennas will improve the reliability, coverage and capacity of T-Mobile Northeast LLC voice and data networks across T-Mobile Northeast LLC various FCC licensed frequency bands and significantly increase the data speeds of T-Mobile Northeast LLC 's network by utilizing the latest LTE technology. Without the proposed modifications T-Mobile Northeast LLC will be unable to provide reliable wireless voice and data service using the latest technologies.

T-Mobile Northeast LLC will have an interim (testing) period during the modification/installation prior to the final configuration. This antenna configuration is shown on the attached drawings of the planned modifications. Also included is the power density calculation reflecting the change in T-Mobile Northeast LLC operations at the site and 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 GSM 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 T-Mobile Northeast LLC 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 (203) 217-6200 or email cbisson@transcendwireless.com with questions concerning this matter.

Thank you for your consideration.

Sincerely,

Chris Bisson
(203) 217-6200

RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL
TO NON-IONIZING EMISSIONS

T-Mobile Existing Facility

Site ID: CT11463C
Wawecus WP#2_FT

202 North Wawecus Hill Road
Norwich CT 06360

April 30, 2014

EBI Project Number: 62142702

April 30, 2014

T-Mobile USA
Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, CT 06002

Re: Emissions Values for Site: **CT11463C - Wawecus WP#2_FT**

EBI Consulting was directed to analyze the proposed T-Mobile facility located at 202 North Wawecus Hill Road, Norwich, CT, for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located 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 is $567 \mu\text{W}/\text{cm}^2$, and the general population exposure limit for the PCS and AWS 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 T-Mobile Wireless antenna facility located at 202 North Wawecus Hill Road, Norwich, CT using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, the actual antenna pattern gain value in the direction of the sample area was used. For this report the sample point is a 6 foot person standing at the base of the tower.

For all calculations, all equipment was calculated using the following assumptions:

- 1) 2 GSM / UMTS channels (1935.000 MHz to 1945.000 MHz / 1983.000 MHz to 1984.000 MHz) were considered for each sector of the proposed installation.
- 2) 4 UMTS / LTE channels (2110.000 to 2120.000 MHz / 2140.000 MHz to 2145.000 MHz) were considered for each sector of the proposed installation.
- 3) 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.
- 4) For the following calculations the sample point was the top of a six foot person standing at the base of the tower. The actual gain in this direction was used per the manufactures supplied specifications.
- 5) The antenna used in this modeling is the Ericsson AIR21 for LTE, UMTS and GSM. This is based on feedback from the carrier with regards to anticipated antenna selection. This antenna has a 15.6 dBd gain value at its main lobe. Actual antenna gain values were used for all calculations as per the manufacturers specifications.

- 6) The antenna mounting height centerline of the proposed antennas is **137 feet** above ground level (AGL).
- 7) 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 calculations were done with respect to uncontrolled / general public threshold limits.

Site ID	CT11463C - Wawecus WP#2_FT
Site Address	202 North Wawecus Hill Road, Norwich CT 06360
Site Type	Monopole

Sector 1

Antenna Number	Antenna Make	Antenna Model	Status	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBD)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
1a	Ericsson	AIR21 B4A/B2P	Active	AWS - 2100 MHz	LTE	60	2	120	-3.95	137	131	None	0	0	48.326044	1.012383	0.10124%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-			0	-3.95	137	131	None	0	0	0	0	0.00000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	137	131	1-5/8"	0	0	24.163022	0.506191	0.05062%
2B	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	137	131	1-5/8"	0	0	24.163022	0.506191	0.05062%

Sector total Power Density Value: 0.202%

Sector 2

Antenna Number	Antenna Make	Antenna Model	Status	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBD)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
1a	Ericsson	AIR21 B4A/B2P	Active	AWS - 2100 MHz	LTE	60	2	120	-3.95	137	131	None	0	0	48.326044	1.012383	0.10124%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-			0	-3.95	137	131	None	0	0	0	0	0.00000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	137	131	1-5/8"	0	0	24.163022	0.506191	0.05062%
2b	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	137	131	1-5/8"	0	0	24.163022	0.506191	0.05062%

Sector total Power Density Value: 0.202%

Sector 3

Antenna Number	Antenna Make	Antenna Model	Status	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBD)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
1a	Ericsson	AIR21 B4A/B2P	Active	AWS - 2100 MHz	LTE	60	2	120	-3.95	137	131	None	0	0	48.326044	1.012383	0.10124%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-			0	-3.95	137	131	None	0	0	0	0	0.00000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	137	131	1-5/8"	0	0	24.163022	0.506191	0.05062%
2b	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	137	131	1-5/8"	0	0	24.163022	0.506191	0.05062%

Sector total Power Density Value: 0.202%

Site Composite MPE %

Carrier	MPE %
T-Mobile	0.607%
Metro PCS	2.970%
Verizon	40.550%
Total Site MPE %	44.127%



Summary

All calculations performed for this analysis yielded results that were well within the allowable limits for general public exposure to RF Emissions.

The anticipated Maximum Composite contributions from the T-Mobile facility are **0.607% (0.202% from each sector)** 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 **44.127%** of the allowable FCC established general public limit sampled at the ground level. This is based upon 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



Structural Analysis Report

Structure : 140 ft Monopole
ATC Site Name : Norwich CT, CT
ATC Site Number : 311014
Engineering Number : 58044312
Proposed Carrier : T-Mobile
Carrier Site Name : Norwich CT
Carrier Site Number : CT11463C
Site Location : 202 N Wawecus Hill Rd
Norwich, CT 06360-4071
41.527069,-72.122594
County : New London
Date : April 10, 2014
Max Usage : 34%
Result : Pass

Amir H. Tabarestani, E.I.
Structural Engineer I



Apr 14 2014 11:41 AM



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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 140 ft monopole to reflect the change in loading by T-Mobile.

Supporting Documents

Tower Drawings	PennSummit, Paul J. Ford Job #29205-0119, dated June 1, 2005
Foundation Drawing	PennSummit, Paul J. Ford Job #29205-0119, dated June 1, 2005
Geotechnical Report	Clarence Welt Assoc. Geotechnical Study Report for Cell Tower 202 North Wawecus Hill Rd., dated October 3, 2005

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.

Basic Wind Speed:	110 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 3/4" radial ice concurrent
Code:	ANSI/TIA-222-G / 2003 IBC w/ 2005 CT Supplement & 2009 CT Amendment
Structure Class:	II
Exposure Category:	B
Topographic Category:	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. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.



Existing and Reserved Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
137.0	-	-	-	Low Profile Platform	(12) 1 5/8" Coax	T-Mobile
126.0	127.0	6	Kathrein 800 10504	Low Profile Platform	(6) 1 5/8" Coax (1) 3/8" Coax	Metro PCS
	126.0	3	RCU			
116.0	116.0	3	Alcatel-Lucent RRH2x40-07-U	Low Profile Platform	(12) 1 5/8" Coax	Verizon
		3	Alcatel-Lucent RRH2x40-AWS			
		6	Antel BXA-171063-12CF-EDIN-X			
		1	RFS DB-T1-6Z-8AB-0Z			
		6	Antel BXA-70063-6CF-EDIN-X			

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
137.0	137.0	3	RFS ATMPP1412D-1CWA	-	-	T-Mobile
		3	RFS ATMAA1412D-1A20			

Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
137.0	137.0	3	Ericsson KRY 112 144/1	Low Profile Platform	(1) 1 5/8" Hybriflex	T-Mobile
		3	Ericsson AIR 21, 1.3M, B2A B4P			
		3	Ericsson AIR 21, 1.3M, B4A B2P			

¹Mount 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	28%	Pass
Shaft	34%	Pass
Base Plate	18%	Pass

Foundations

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Moment (Kips-Ft)	5,050.0	6,817.5	2,286.8	34%
Shear (Kips)	43.0	58.1	24.7	43%

* The design reactions are factored by 1.35 per ANSI/TIA-222-G, Sec. 15.5.1

The structure base reactions resulting from this analysis are acceptable when compared to those shown on the original structure drawings, therefore no modification or reinforcement of the foundation will be required.

Deflection and Sway*

Antenna Elevation (ft)	Deflection (ft)	Sway (Rotation) (°)
137.0	0.490	0.350

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



Standard Conditions

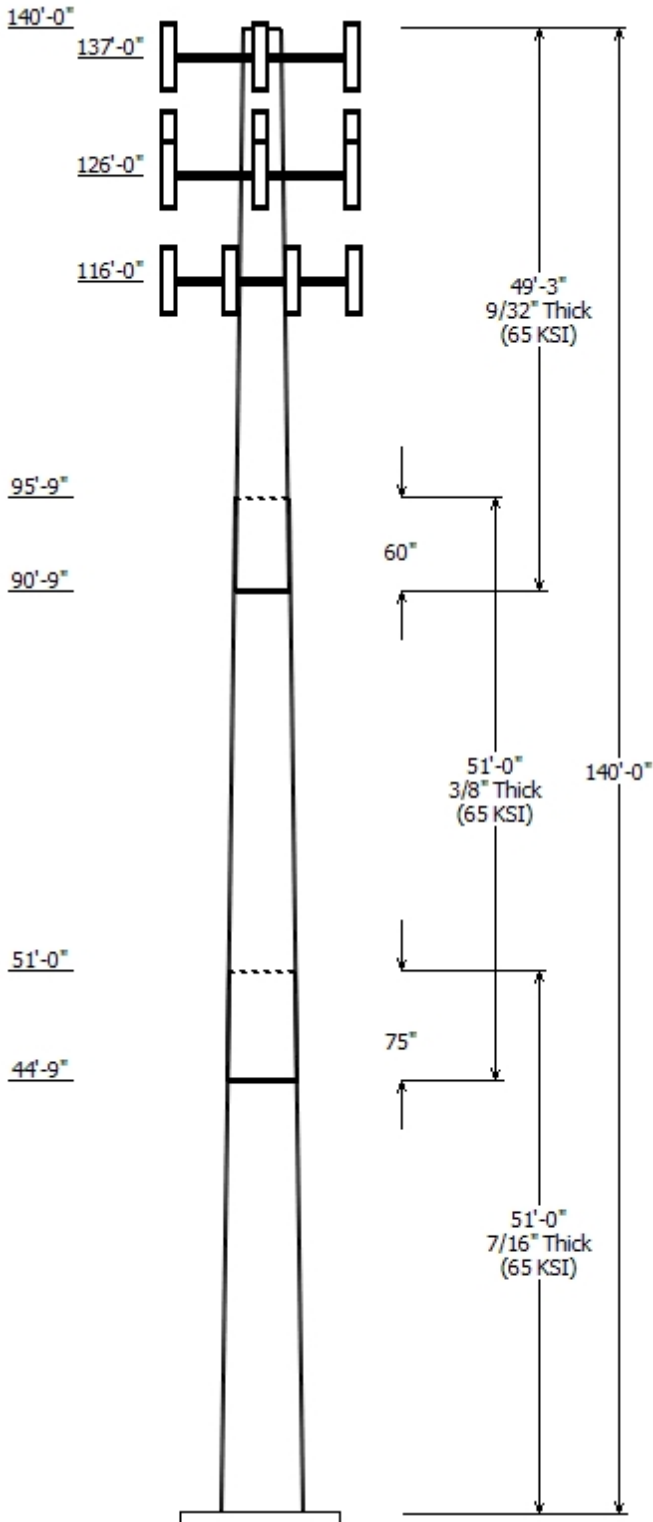
All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- 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 : 311014 Code: ANSI/TIA-222 Rev G
 Description : 140 ft PennSummit Monopole
 Client : Verizon Struct Class : II
 Location : Norwich CT, CT
 Shape : 18 Sides Exposure : B
 Height : 140.00 (ft) Topo : 1
 Base Elev (ft): 0.00
 Taper: 0.23420(in/ft)

Sections Properties

Shaft Section	Length (ft)	Diameter (in)		Joint Thick (in)	Joint Type	Overlap		Steel Grade
		Top	Bottom			Length (in)	Taper (in/ft)	
1	51.000	48.21	60.16	0.438		0.000	0.234203	65
2	51.000	38.48	50.42	0.375	Slip Joint	75.000	0.234203	65
3	49.250	28.68	40.21	0.281	Slip Joint	60.000	0.234203	65

Discrete Appurtenance

Attach Elev (ft)	Force Elev (ft)	Qty	Description
137.000	137.000	3	Ericsson KRY 112 144/1
137.000	137.000	3	Ericsson AIR 21, 1.3M, B2A B4P
137.000	137.000	1	Flat Low Profile Platform
137.000	137.000	3	Ericsson AIR 21, 1.3M, B4A B2P
126.000	126.000	3	RCU
126.000	127.000	6	Kathrein 800 10504
126.000	126.000	1	Flat Low Profile Platform
116.000	116.000	3	Alcatel-Lucent RRH2x40-AWS
116.000	116.000	6	Antel BXA-70063-6CF-EDIN-X
116.000	116.000	3	Alcatel-Lucent RRH2x40-07-U
116.000	116.000	6	Antel BXA-171063-12CF-EDIN-X
116.000	116.000	1	RFS DB-T1-6Z-8AB-0Z
116.000	116.000	1	Flat Low Profile Platform

Linear Appurtenance

Elev (ft)		Description	Exposed To Wind
From	To		
5.000	116.0	1 5/8" Coax	No
5.000	126.0	1 5/8" Coax	Yes
5.000	126.0	3/8" Coax	Yes
5.000	137.0	1 5/8" Coax	No
5.000	137.0	1 5/8" Hybriflex	No

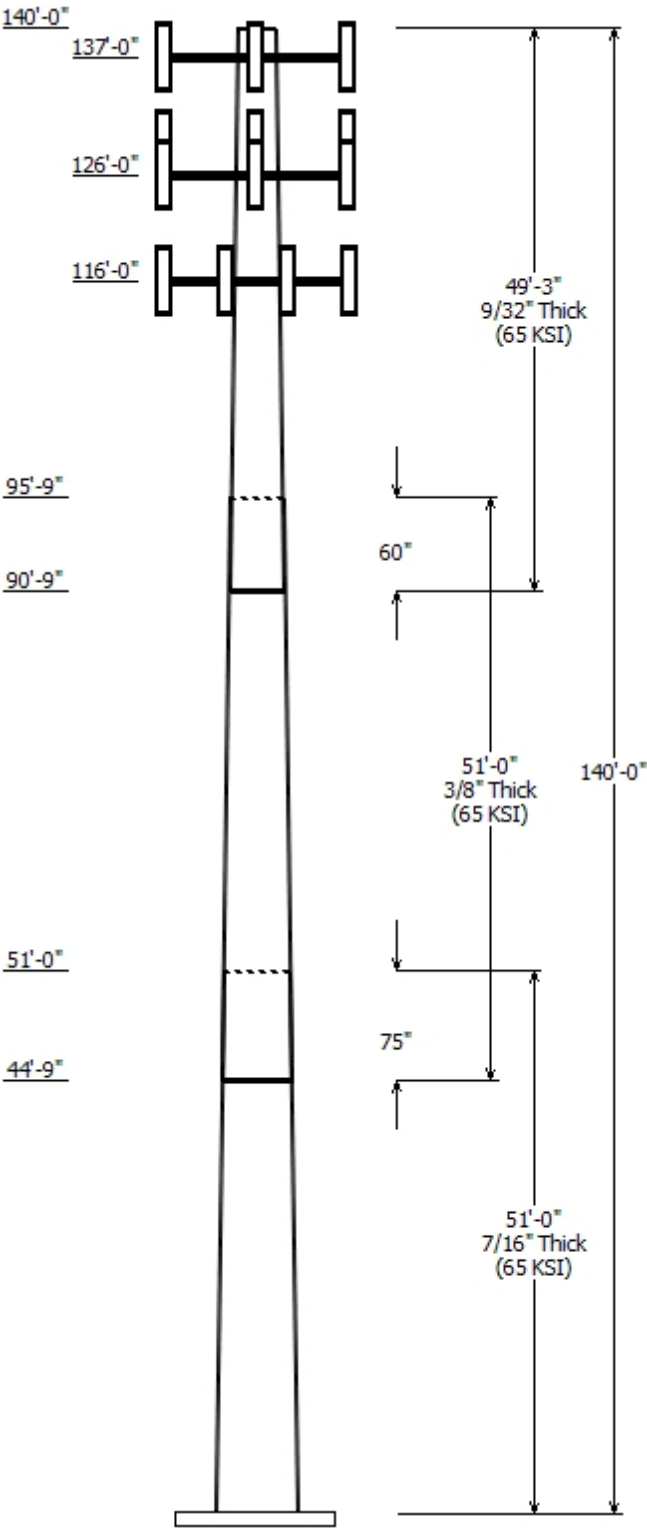
Load Cases

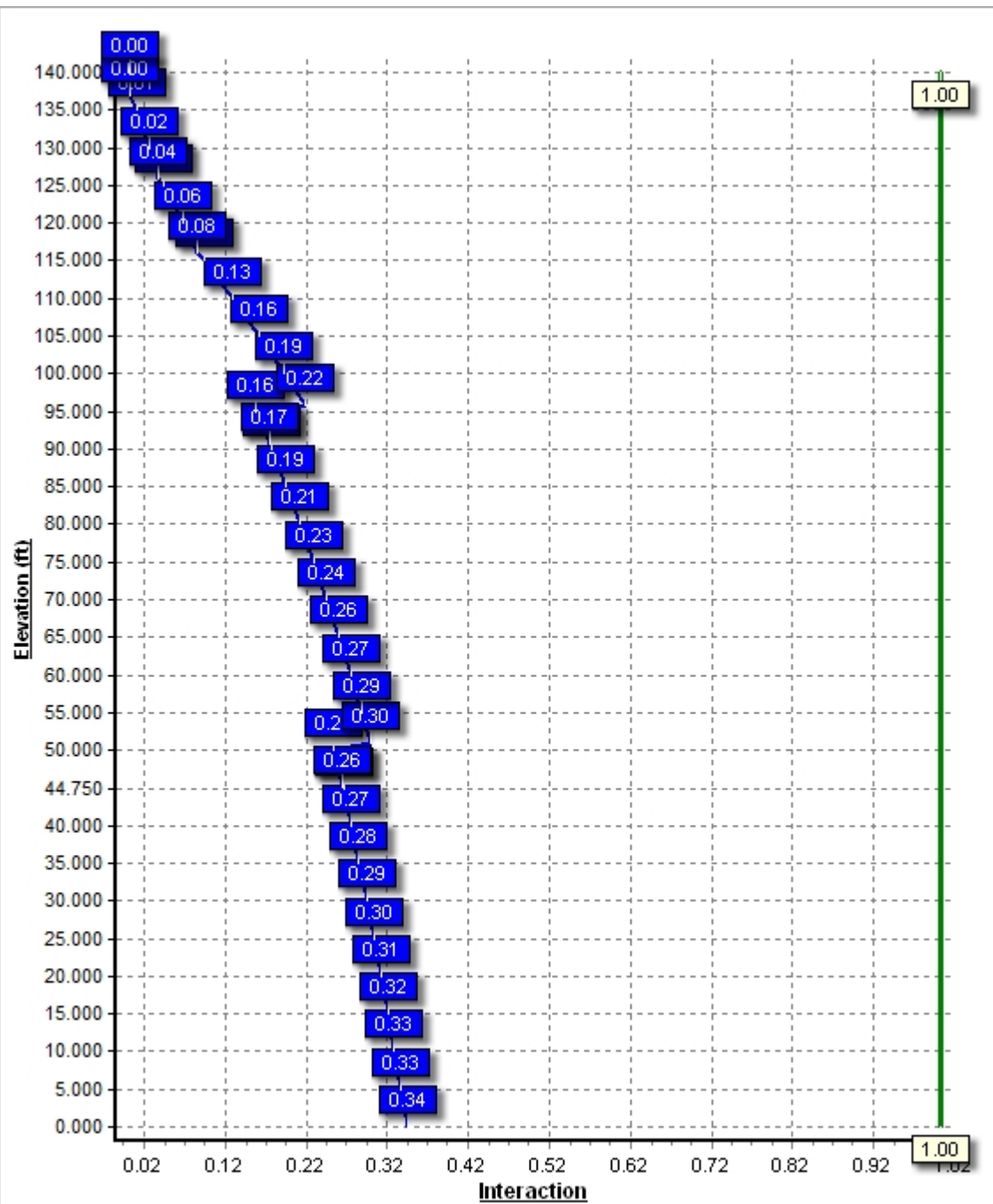
1.2D + 1.6W	110.00 mph with No Ice
0.9D + 1.6W	110.00 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice
1.0D + 1.0W	60.00 mph Serviceability

Reactions

Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	2286.77	24.69	43.17
0.9D + 1.6W	2276.13	24.68	32.37
1.2D + 1.0Di + 1.0Wi	511.75	5.67	65.35
1.0D + 1.0W	423.93	4.59	35.99

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
	0.00	0.000	0.000

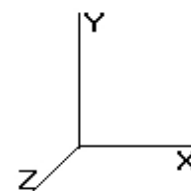




Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
 Taper : 0.234203 (in/ft)

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

Shaft Section Properties							Bottom							Top						
Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint Len (in)	Weight (lb)	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)	
1-18	51.000	0.4375	65		0.00	12,952	60.16	0.00	82.93	37371.0	22.84	137.51	48.21	51.00	66.34	19134.1	18.02	110.21	0.234203	
2-18	51.000	0.3750	65	Slip	75.00	9,105	50.42	44.75	59.57	18858.2	22.30	134.48	38.48	95.75	45.36	8323.2	16.69	102.63	0.234203	
3-18	49.250	0.2813	65	Slip	60.00	5,112	40.21	90.75	35.65	7184.0	23.80	143.00	28.68	140.00	25.35	2584.1	16.57	101.99	0.234203	
Shaft Weight						27,169														

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		
137.00	Ericsson AIR 21, 1.3M, B2A	3	83.00	6.050	0.86	250.22	7.138	0.86	0.000	0.000
137.00	Ericsson AIR 21, 1.3M, B4A	3	81.50	6.090	0.85	248.68	7.182	0.85	0.000	0.000
137.00	Ericsson KRY 112 144/1	3	11.00	0.410	0.50	27.16	0.632	0.50	0.000	0.000
137.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	2,143.36	45.058	1.00	0.000	0.000
126.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	2,138.00	44.900	1.00	0.000	0.000
126.00	Kathrein 800 10504	6	17.60	3.340	0.78	97.51	4.281	0.78	0.000	1.000
126.00	RCU	3	1.00	0.160	0.50	10.88	0.357	0.50	0.000	0.000
116.00	Alcatel-Lucent RRH2x40-07-U	3	50.70	1.930	0.50	119.28	2.478	0.50	0.000	0.000
116.00	Alcatel-Lucent RRH2x40-AWS	3	44.00	2.160	0.67	115.19	2.786	0.67	0.000	0.000
116.00	Antel BXA-171063-12CF-EDIN-	6	15.00	4.790	0.88	131.55	5.991	0.88	0.000	0.000
116.00	Antel BXA-70063-6CF-EDIN-X	6	17.00	7.570	0.77	185.67	8.785	0.77	0.000	0.000
116.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	2,132.74	44.746	1.00	0.000	0.000
116.00	RFS DB-T1-6Z-8AB-0Z	1	44.00	4.800	0.67	183.45	5.650	0.67	0.000	0.000
Totals		40	5655.20			11,400.13			Number of Loadings : 13	

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Exposed Width (in)	Exposed To Wind
5.00	137.00	(12) 1 5/8" Coax	0.00	N
5.00	137.00	(1) 1 5/8" Hybriflex	0.00	N
5.00	126.00	(6) 1 5/8" Coax	1.98	Y
5.00	126.00	(1) 3/8" Coax	0.44	Y
5.00	116.00	(12) 1 5/8" Coax	0.00	N

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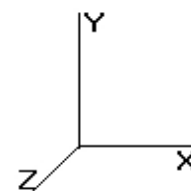
Page: 2

Seg Top		Thick	Flat	Area	Ix	W/t	D/t	Fy	S	Weight
Elev	Description	(in)	Dia	(in^2)	(in^4)	Ratio	Ratio	(ksi)	(in3)	(lb)
(ft)			(in)							
0.00		0.4375	60.160	82.929	37,371.0	22.84	137.51	74.5	1223.	0.0
5.00		0.4375	58.989	81.303	35,215.5	22.36	134.83	75.1	1175.	1,397.1
10.00		0.4375	57.818	79.677	33,144.6	21.89	132.16	75.7	1129.	1,369.4
15.00		0.4375	56.647	78.051	31,156.5	21.42	129.48	76.2	1083.	1,341.8
20.00		0.4375	55.476	76.425	29,249.5	20.95	126.80	76.8	1038.	1,314.1
25.00		0.4375	54.305	74.799	27,422.0	20.48	124.13	77.3	994.6	1,286.5
30.00		0.4375	53.134	73.173	25,672.2	20.00	121.45	77.9	951.6	1,258.8
35.00		0.4375	51.963	71.547	23,998.5	19.53	118.77	78.4	909.6	1,231.1
40.00		0.4375	50.792	69.921	22,399.2	19.06	116.10	79.0	868.6	1,203.5
44.75	Bot - Section 2	0.4375	49.679	68.376	20,947.1	18.61	113.55	79.5	830.5	1,117.7
45.00		0.4375	49.621	68.295	20,872.5	18.59	113.42	79.5	828.5	108.8
50.00		0.4375	48.450	66.669	19,416.8	18.12	110.74	80.1	789.3	2,148.7
51.00	Top - Section 1	0.3750	48.966	57.833	17,251.7	21.61	130.57	76.0	693.9	423.6
55.00		0.3750	48.029	56.718	16,273.0	21.17	128.08	76.5	667.3	779.6
60.00		0.3750	46.858	55.324	15,102.6	20.62	124.95	77.1	634.8	953.1
65.00		0.3750	45.687	53.930	13,989.7	20.07	121.83	77.8	603.1	929.4
70.00		0.3750	44.516	52.537	12,932.8	19.52	118.71	78.4	572.2	905.7
75.00		0.3750	43.345	51.143	11,930.6	18.97	115.59	79.1	542.1	882.0
80.00		0.3750	42.174	49.749	10,981.5	18.42	112.46	79.7	512.9	858.3
85.00		0.3750	41.003	48.355	10,084.2	17.87	109.34	80.4	484.4	834.6
90.00		0.3750	39.832	46.962	9,237.1	17.32	106.22	81.0	456.8	810.9
90.75	Bot - Section 3	0.3750	39.656	46.753	9,114.3	17.24	105.75	81.1	452.7	119.6
95.00		0.3750	38.661	45.568	8,438.8	16.77	103.10	81.7	429.9	1,176.7
95.75	Top - Section 2	0.2813	39.047	34.605	6,570.5	23.07	138.84	74.3	331.4	204.5
100.0		0.2813	38.052	33.716	6,077.3	22.45	135.30	75.0	314.6	494.0
105.0		0.2813	36.881	32.671	5,529.4	21.71	131.13	75.9	295.3	564.8
110.0		0.2813	35.710	31.626	5,015.4	20.98	126.97	76.7	276.6	547.0
115.0		0.2813	34.539	30.580	4,534.4	20.24	122.81	77.6	258.6	529.2
116.0		0.2813	34.305	30.371	4,442.0	20.10	121.97	77.8	255.0	103.7
120.0		0.2813	33.368	29.535	4,085.1	19.51	118.64	78.5	241.1	407.7
125.0		0.2813	32.197	28.490	3,666.5	18.78	114.48	79.3	224.3	493.6
126.0		0.2813	31.963	28.281	3,586.4	18.63	113.65	79.5	221.0	96.6
130.0		0.2813	31.026	27.444	3,277.6	18.04	110.31	80.2	208.1	379.2
135.0		0.2813	29.855	26.399	2,917.1	17.31	106.15	81.0	192.5	458.0

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
 Taper : 0.234203 (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

20 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

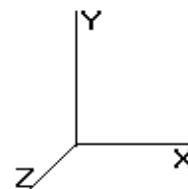
Shaft Segment Forces (Factored)

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	468.50	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	20.599	22.65	459.38	0.650	0.000	5.00	25.206	16.38	594.0	0.0	1,676.5
10.00		1.00	0.70	20.599	22.65	450.26	0.650	0.000	5.00	24.710	16.06	582.3	0.0	1,643.3
15.00		1.00	0.70	20.599	22.65	441.14	0.650	0.000	5.00	24.215	15.74	570.6	0.0	1,610.1
20.00		1.00	0.70	20.599	22.65	432.02	0.650	0.000	5.00	23.719	15.42	559.0	0.0	1,576.9
25.00		1.00	0.70	20.599	22.65	422.90	0.650	0.000	5.00	23.224	15.10	547.3	0.0	1,543.7
30.00		1.00	0.70	20.616	22.67	413.96	0.650	0.000	5.00	22.728	14.77	536.1	0.0	1,510.5
35.00		1.00	0.73	21.545	23.69	413.85	0.650	0.000	5.00	22.233	14.45	548.0	0.0	1,477.3
40.00		1.00	0.76	22.383	24.62	412.32	0.650	0.000	5.00	21.737	14.13	556.6	0.0	1,444.1
44.75	Bot - Section 2	1.00	0.78	23.112	25.42	409.80	0.650	0.000	4.75	20.192	13.12	533.9	0.0	1,341.2
45.00		1.00	0.78	23.149	25.46	409.64	0.650	0.000	0.25	1.066	0.69	28.2	0.0	130.5
50.00		1.00	0.81	23.856	26.24	406.04	0.650	0.000	5.00	21.064	13.69	574.9	0.0	2,578.4
51.00	Top - Section 1	1.00	0.81	23.991	26.39	405.22	0.650	0.000	1.00	4.153	2.70	114.0	0.0	508.3
55.00		1.00	0.83	24.515	26.96	408.03	0.650	0.000	4.00	16.415	10.67	460.4	0.0	935.5
60.00		1.00	0.85	25.132	27.64	403.06	0.650	0.000	5.00	20.073	13.05	577.1	0.0	1,143.8
65.00		1.00	0.87	25.713	28.28	397.51	0.650	0.000	5.00	19.578	12.73	575.9	0.0	1,115.3
70.00		1.00	0.89	26.263	28.89	391.44	0.650	0.000	5.00	19.082	12.40	573.3	0.0	1,086.8
75.00		1.00	0.91	26.786	29.46	384.92	0.650	0.000	5.00	18.587	12.08	569.6	0.0	1,058.4
80.00		1.00	0.92	27.285	30.01	377.99	0.650	0.000	5.00	18.091	11.76	564.7	0.0	1,029.9
85.00		1.00	0.94	27.761	30.53	370.69	0.650	0.000	5.00	17.596	11.44	558.8	0.0	1,001.5
90.00		1.00	0.95	28.219	31.04	363.06	0.650	0.000	5.00	17.100	11.12	552.0	0.0	973.0
90.75	Bot - Section 3	1.00	0.96	28.285	31.11	361.89	0.650	0.000	0.75	2.522	1.64	81.6	0.0	143.5
95.00		1.00	0.97	28.658	31.52	355.12	0.650	0.000	4.25	14.285	9.29	468.3	0.0	1,412.0
95.75	Top - Section 2	1.00	0.97	28.722	31.59	353.90	0.650	0.000	0.75	2.484	1.61	81.6	0.0	245.4
100.00		1.00	0.98	29.081	31.98	352.10	0.650	0.000	4.25	13.864	9.01	461.2	0.0	592.8
105.00		1.00	1.00	29.489	32.43	343.65	0.650	0.000	5.00	15.852	10.30	534.8	0.0	677.7
110.00		1.00	1.01	29.884	32.87	334.96	0.650	0.000	5.00	15.356	9.98	525.0	0.0	656.4
115.00		1.00	1.02	30.266	33.29	326.04	0.650	0.000	5.00	14.861	9.66	514.5	0.0	635.0
116.00	Appertunance(s)	1.00	1.03	30.341	33.37	324.23	0.650	0.000	1.00	2.913	1.89	101.1	0.0	124.4
120.00		1.00	1.04	30.636	33.69	316.90	0.650	0.000	4.00	11.453	7.44	401.4	0.0	489.2
125.00		1.00	1.05	30.995	34.09	307.57	0.650	0.000	5.00	13.870	9.02	491.8	0.0	592.3
126.00	Appertunance(s)	1.00	1.05	31.066	34.17	305.68	0.650	0.000	1.00	2.715	1.76	96.5	0.0	115.9
130.00		1.00	1.06	31.345	34.47	298.05	0.650	0.000	4.00	10.660	6.93	382.3	0.0	455.1
135.00		1.00	1.07	31.684	34.85	288.35	0.650	0.000	5.00	12.879	8.37	466.8	0.0	549.7
137.00	Appertunance(s)	1.00	1.08	31.818	35.00	284.42	0.650	0.000	2.00	5.013	3.26	182.5	0.0	213.9
140.00		1.00	1.08	32.015	35.21	278.48	0.650	0.000	3.00	7.371	4.79	270.0	0.0	314.4
Totals:									140.00			15,235.9	0.0	32,603.3

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
 Taper : 0.234203 (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

20 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

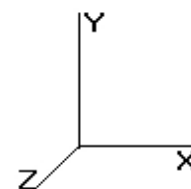
Discrete Appurtenance Segment Forces (Factored)

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)
116.0	Flat Low Profile Pla	1	30.341	33.375	1.00	1.00	26.10	0.000	0.000	1,393.73	0.00	0.00	1,800.00
116.0	RFS DB-T1-6Z-8AB-0Z	1	30.341	33.375	0.67	0.80	2.57	0.000	0.000	137.39	0.00	0.00	52.80
116.0	Antel BXA-171063-12C	6	30.341	33.375	0.88	0.80	20.23	0.000	0.000	1,080.43	0.00	0.00	108.00
116.0	Alcatel-Lucent RRH2x	3	30.341	33.375	0.50	0.80	2.32	0.000	0.000	123.67	0.00	0.00	182.52
116.0	Antel BXA-70063-6CF-	6	30.341	33.375	0.77	0.80	27.98	0.000	0.000	1,494.05	0.00	0.00	122.40
116.0	Alcatel-Lucent RRH2x	3	30.341	33.375	0.67	0.80	3.47	0.000	0.000	185.47	0.00	0.00	158.40
126.0	Flat Low Profile Pla	1	31.066	34.173	1.00	1.00	26.10	0.000	0.000	1,427.05	0.00	0.00	1,800.00
126.0	Kathrein 800 10504	6	31.136	34.250	0.78	0.80	12.50	0.000	1.000	685.27	0.00	685.27	126.72
126.0	RCU	3	31.066	34.173	0.50	0.80	0.19	0.000	0.000	10.50	0.00	0.00	3.60
137.0	Flat Low Profile Pla	1	31.818	35.000	1.00	1.00	26.10	0.000	0.000	1,461.58	0.00	0.00	1,800.00
137.0	Ericsson AIR 21, 1.3	3	31.818	35.000	0.86	0.80	12.49	0.000	0.000	699.28	0.00	0.00	298.80
137.0	Ericsson KRY 112 144	3	31.818	35.000	0.50	0.80	0.49	0.000	0.000	27.55	0.00	0.00	39.60
137.0	Ericsson AIR 21, 1.3	3	31.818	35.000	0.85	0.80	12.42	0.000	0.000	695.71	0.00	0.00	293.40
										9,421.67			6,786.24

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
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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

20 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

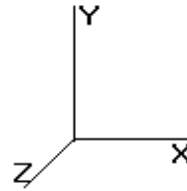
Wind Load Factor : 1.60

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)
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.041	0.000	0.00	29.52
10.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	20.599	0.041	0.000	0.00	0.48
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.042	0.000	0.00	29.52
15.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	20.599	0.042	0.000	0.00	0.48
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.043	0.000	0.00	29.52
20.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	20.599	0.043	0.000	0.00	0.48
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.043	0.000	0.00	29.52
25.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	20.599	0.043	0.000	0.00	0.48
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.616	0.044	0.000	0.00	29.52
30.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	20.616	0.044	0.000	0.00	0.48
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	21.545	0.045	0.000	0.00	29.52
35.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	21.545	0.045	0.000	0.00	0.48
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	22.383	0.046	0.000	0.00	29.52
40.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	22.383	0.046	0.000	0.00	0.48
44.75	(6) 1 5/8" Coax	Yes	4.75	0.000	1.98	0.78	0.00	23.112	0.047	0.000	0.00	28.04
44.75	(1) 3/8" Coax	Yes	4.75	0.000	0.44	0.17	0.00	23.112	0.047	0.000	0.00	0.46
45.00	(6) 1 5/8" Coax	Yes	0.25	0.000	1.98	0.04	0.00	23.149	0.048	0.000	0.00	1.48
45.00	(1) 3/8" Coax	Yes	0.25	0.000	0.44	0.01	0.00	23.149	0.048	0.000	0.00	0.02
50.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	23.856	0.049	0.000	0.00	29.52
50.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	23.856	0.049	0.000	0.00	0.48
51.00	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	23.991	0.049	0.000	0.00	5.90
51.00	(1) 3/8" Coax	Yes	1.00	0.000	0.44	0.04	0.00	23.991	0.049	0.000	0.00	0.10
55.00	(6) 1 5/8" Coax	Yes	4.00	0.000	1.98	0.66	0.00	24.515	0.049	0.000	0.00	23.62
55.00	(1) 3/8" Coax	Yes	4.00	0.000	0.44	0.15	0.00	24.515	0.049	0.000	0.00	0.38
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	25.132	0.050	0.000	0.00	29.52
60.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	25.132	0.050	0.000	0.00	0.48
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	25.713	0.052	0.000	0.00	29.52
65.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	25.713	0.052	0.000	0.00	0.48
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.263	0.053	0.000	0.00	29.52
70.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	26.263	0.053	0.000	0.00	0.48
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.786	0.054	0.000	0.00	29.52
75.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	26.786	0.054	0.000	0.00	0.48
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	27.285	0.056	0.000	0.00	29.52
80.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	27.285	0.056	0.000	0.00	0.48
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	27.761	0.057	0.000	0.00	29.52
85.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	27.761	0.057	0.000	0.00	0.48
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.219	0.059	0.000	0.00	29.52
90.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	28.219	0.059	0.000	0.00	0.48
90.75	(6) 1 5/8" Coax	Yes	0.75	0.000	1.98	0.12	0.00	28.285	0.060	0.000	0.00	4.43
90.75	(1) 3/8" Coax	Yes	0.75	0.000	0.44	0.03	0.00	28.285	0.060	0.000	0.00	0.07
95.00	(6) 1 5/8" Coax	Yes	4.25	0.000	1.98	0.70	0.00	28.658	0.061	0.000	0.00	25.09
95.00	(1) 3/8" Coax	Yes	4.25	0.000	0.44	0.16	0.00	28.658	0.061	0.000	0.00	0.41
95.75	(6) 1 5/8" Coax	Yes	0.75	0.000	1.98	0.12	0.00	28.722	0.062	0.000	0.00	4.43
95.75	(1) 3/8" Coax	Yes	0.75	0.000	0.44	0.03	0.00	28.722	0.062	0.000	0.00	0.07
100.0	(6) 1 5/8" Coax	Yes	4.25	0.000	1.98	0.70	0.00	29.081	0.062	0.000	0.00	25.09
100.0	(1) 3/8" Coax	Yes	4.25	0.000	0.44	0.16	0.00	29.081	0.062	0.000	0.00	0.41
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	29.489	0.064	0.000	0.00	29.52
105.0	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	29.489	0.064	0.000	0.00	0.48
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	29.884	0.066	0.000	0.00	29.52
110.0	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	29.884	0.066	0.000	0.00	0.48
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	30.266	0.068	0.000	0.00	29.52

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

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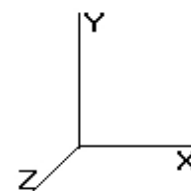


115.0	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	30.266	0.068	0.000	0.00	0.48
116.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	30.341	0.069	0.000	0.00	5.90
116.0	(1) 3/8" Coax	Yes	1.00	0.000	0.44	0.04	0.00	30.341	0.069	0.000	0.00	0.10
120.0	(6) 1 5/8" Coax	Yes	4.00	0.000	1.98	0.66	0.00	30.636	0.070	0.000	0.00	23.62
120.0	(1) 3/8" Coax	Yes	4.00	0.000	0.44	0.15	0.00	30.636	0.070	0.000	0.00	0.38
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	30.995	0.073	0.000	0.00	29.52
125.0	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	30.995	0.073	0.000	0.00	0.48
126.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	31.066	0.074	0.000	0.00	5.90
126.0	(1) 3/8" Coax	Yes	1.00	0.000	0.44	0.04	0.00	31.066	0.074	0.000	0.00	0.10
Totals:											0.00	726.00

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
 Taper : 0.234203 (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

20 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

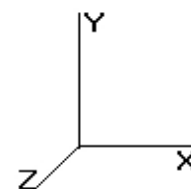
Applied Segment Forces Summary

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	593.98	1,676.54	0.00	0.00
10.00	582.30	1,799.21	0.00	0.00
15.00	570.63	1,766.01	0.00	0.00
20.00	558.95	1,732.81	0.00	0.00
25.00	547.28	1,699.61	0.00	0.00
30.00	536.05	1,666.42	0.00	0.00
35.00	547.98	1,633.22	0.00	0.00
40.00	556.60	1,600.02	0.00	0.00
44.75	533.87	1,489.27	0.00	0.00
45.00	28.24	138.33	0.00	0.00
50.00	574.86	2,734.30	0.00	0.00
51.00	113.99	539.46	0.00	0.00
55.00	460.36	1,060.20	0.00	0.00
60.00	577.11	1,299.63	0.00	0.00
65.00	575.89	1,271.18	0.00	0.00
70.00	573.33	1,242.72	0.00	0.00
75.00	569.56	1,214.27	0.00	0.00
80.00	564.69	1,185.81	0.00	0.00
85.00	558.82	1,157.36	0.00	0.00
90.00	552.03	1,128.90	0.00	0.00
90.75	81.62	166.88	0.00	0.00
95.00	468.32	1,544.53	0.00	0.00
95.75	81.61	268.83	0.00	0.00
100.0	461.22	725.32	0.00	0.00
105.0	534.77	833.58	0.00	0.00
110.0	524.99	812.24	0.00	0.00
115.0	514.55	790.89	0.00	0.00
116.0	4,515.83	2,579.74	0.00	0.00
120.0	401.39	566.70	0.00	0.00
125.0	491.82	689.17	0.00	0.00
126.0	2,219.29	2,065.59	0.00	685.27
130.0	382.25	508.56	0.00	0.00
135.0	466.83	616.49	0.00	0.00
137.0	3,066.59	2,672.42	0.00	0.00
140.0	269.96	314.43	0.00	0.00
Totals:	24,657.55	43,190.62	0.00	685.27

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
 Taper : 0.234203 (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

20 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

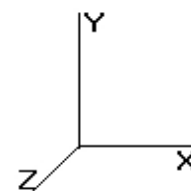
Calculated Forces

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	-43.17	-24.69	0.00	-2,286.77	0.00	2,286.77	5,563.50	2,781.75	13,660.1	6,840.21	0.00	0.00	0.342
5.00	-41.46	-24.16	0.00	-2,163.32	0.00	2,163.32	5,495.04	2,747.52	13,225.5	6,622.59	0.05	-0.08	0.334
10.00	-39.63	-23.63	0.00	-2,042.54	0.00	2,042.54	5,424.94	2,712.47	12,793.7	6,406.38	0.18	-0.17	0.326
15.00	-37.83	-23.11	0.00	-1,924.40	0.00	1,924.40	5,353.22	2,676.61	12,365.0	6,191.70	0.40	-0.25	0.318
20.00	-36.07	-22.59	0.00	-1,808.86	0.00	1,808.86	5,279.88	2,639.94	11,939.5	5,978.66	0.72	-0.34	0.309
25.00	-34.34	-22.09	0.00	-1,695.89	0.00	1,695.89	5,204.91	2,602.46	11,517.6	5,767.39	1.12	-0.43	0.301
30.00	-32.64	-21.58	0.00	-1,585.47	0.00	1,585.47	5,128.32	2,564.16	11,099.4	5,557.99	1.61	-0.51	0.292
35.00	-30.98	-21.07	0.00	-1,477.55	0.00	1,477.55	5,050.10	2,525.05	10,685.3	5,350.59	2.19	-0.60	0.282
40.00	-29.36	-20.53	0.00	-1,372.21	0.00	1,372.21	4,970.26	2,485.13	10,275.3	5,145.31	2.86	-0.68	0.273
44.75	-27.86	-20.00	0.00	-1,274.68	0.00	1,274.68	4,892.90	2,446.45	9,890.02	4,952.36	3.58	-0.76	0.263
45.00	-27.71	-19.99	0.00	-1,269.68	0.00	1,269.68	4,888.79	2,444.40	9,869.86	4,942.27	3.62	-0.76	0.263
50.00	-24.97	-19.40	0.00	-1,169.71	0.00	1,169.71	4,805.70	2,402.85	9,469.07	4,741.57	4.46	-0.85	0.252
51.00	-24.42	-19.30	0.00	-1,150.31	0.00	1,150.31	3,954.70	1,977.35	7,897.06	3,954.40	4.64	-0.86	0.297
55.00	-23.34	-18.85	0.00	-1,073.12	0.00	1,073.12	3,904.91	1,952.45	7,646.13	3,828.75	5.40	-0.93	0.286
60.00	-22.02	-18.29	0.00	-978.86	0.00	978.86	3,841.19	1,920.60	7,335.11	3,673.01	6.42	-1.02	0.272
65.00	-20.73	-17.72	0.00	-887.42	0.00	887.42	3,775.86	1,887.93	7,027.24	3,518.84	7.54	-1.11	0.258
70.00	-19.48	-17.15	0.00	-798.82	0.00	798.82	3,708.90	1,854.45	6,722.77	3,366.38	8.74	-1.19	0.243
75.00	-18.25	-16.58	0.00	-713.08	0.00	713.08	3,640.31	1,820.16	6,421.93	3,215.74	10.04	-1.28	0.227
80.00	-17.06	-16.01	0.00	-630.17	0.00	630.17	3,570.10	1,785.05	6,124.95	3,067.03	11.42	-1.36	0.210
85.00	-15.89	-15.45	0.00	-550.12	0.00	550.12	3,498.27	1,749.13	5,832.07	2,920.37	12.88	-1.43	0.193
90.00	-14.77	-14.88	0.00	-472.89	0.00	472.89	3,424.81	1,712.40	5,543.53	2,775.89	14.42	-1.51	0.175
90.75	-14.59	-14.80	0.00	-461.73	0.00	461.73	3,413.65	1,706.82	5,500.64	2,754.41	14.66	-1.52	0.172
95.00	-13.05	-14.30	0.00	-398.84	0.00	398.84	3,349.72	1,674.86	5,259.57	2,633.69	16.04	-1.57	0.155
95.75	-12.78	-14.21	0.00	-388.12	0.00	388.12	2,312.98	1,156.49	3,686.59	1,846.04	16.28	-1.58	0.216
100.00	-12.05	-13.75	0.00	-327.71	0.00	327.71	2,275.87	1,137.93	3,533.62	1,769.44	17.72	-1.64	0.191
105.00	-11.22	-13.20	0.00	-258.98	0.00	258.98	2,230.70	1,115.35	3,355.32	1,680.15	19.47	-1.70	0.159
110.00	-10.41	-12.66	0.00	-192.99	0.00	192.99	2,183.90	1,091.95	3,179.03	1,591.88	21.29	-1.76	0.126
115.00	-9.63	-12.12	0.00	-129.69	0.00	129.69	2,135.49	1,067.74	3,004.99	1,504.73	23.16	-1.81	0.091
116.00	-7.20	-7.53	0.00	-117.57	0.00	117.57	2,125.61	1,062.80	2,970.48	1,487.45	23.54	-1.82	0.082
120.00	-6.64	-7.12	0.00	-87.44	0.00	87.44	2,085.44	1,042.72	2,833.45	1,418.83	25.07	-1.84	0.065
125.00	-5.97	-6.60	0.00	-51.86	0.00	51.86	2,033.77	1,016.89	2,664.63	1,334.29	27.01	-1.87	0.042
126.00	-3.97	-4.32	0.00	-44.58	0.00	44.58	2,023.25	1,011.62	2,631.21	1,317.56	27.40	-1.87	0.036
130.00	-3.48	-3.92	0.00	-27.31	0.00	27.31	1,980.48	990.24	2,498.77	1,251.24	28.98	-1.88	0.024
135.00	-2.88	-3.43	0.00	-7.71	0.00	7.71	1,925.56	962.78	2,336.10	1,169.79	30.95	-1.89	0.008
137.00	-0.31	-0.28	0.00	-0.84	0.00	0.84	1,903.14	951.57	2,271.99	1,137.68	31.74	-1.89	0.001
140.00	0.00	-0.27	0.00	0.00	0.00	0.00	1,869.02	934.51	2,176.88	1,090.06	32.93	-1.89	0.000

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
 Taper : 0.234203 (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)

20 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

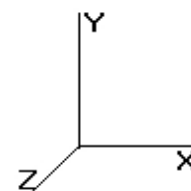
Shaft Segment Forces (Factored)

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	468.50	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	20.599	22.65	459.38	0.650	0.000	5.00	25.206	16.38	594.0	0.0	1,257.4
10.00		1.00	0.70	20.599	22.65	450.26	0.650	0.000	5.00	24.710	16.06	582.3	0.0	1,232.5
15.00		1.00	0.70	20.599	22.65	441.14	0.650	0.000	5.00	24.215	15.74	570.6	0.0	1,207.6
20.00		1.00	0.70	20.599	22.65	432.02	0.650	0.000	5.00	23.719	15.42	559.0	0.0	1,182.7
25.00		1.00	0.70	20.599	22.65	422.90	0.650	0.000	5.00	23.224	15.10	547.3	0.0	1,157.8
30.00		1.00	0.70	20.616	22.67	413.96	0.650	0.000	5.00	22.728	14.77	536.1	0.0	1,132.9
35.00		1.00	0.73	21.545	23.69	413.85	0.650	0.000	5.00	22.233	14.45	548.0	0.0	1,108.0
40.00		1.00	0.76	22.383	24.62	412.32	0.650	0.000	5.00	21.737	14.13	556.6	0.0	1,083.1
44.75	Bot - Section 2	1.00	0.78	23.112	25.42	409.80	0.650	0.000	4.75	20.192	13.12	533.9	0.0	1,005.9
45.00		1.00	0.78	23.149	25.46	409.64	0.650	0.000	0.25	1.066	0.69	28.2	0.0	97.9
50.00		1.00	0.81	23.856	26.24	406.04	0.650	0.000	5.00	21.064	13.69	574.9	0.0	1,933.8
51.00	Top - Section 1	1.00	0.81	23.991	26.39	405.22	0.650	0.000	1.00	4.153	2.70	114.0	0.0	381.2
55.00		1.00	0.83	24.515	26.96	408.03	0.650	0.000	4.00	16.415	10.67	460.4	0.0	701.6
60.00		1.00	0.85	25.132	27.64	403.06	0.650	0.000	5.00	20.073	13.05	577.1	0.0	857.8
65.00		1.00	0.87	25.713	28.28	397.51	0.650	0.000	5.00	19.578	12.73	575.9	0.0	836.5
70.00		1.00	0.89	26.263	28.89	391.44	0.650	0.000	5.00	19.082	12.40	573.3	0.0	815.1
75.00		1.00	0.91	26.786	29.46	384.92	0.650	0.000	5.00	18.587	12.08	569.6	0.0	793.8
80.00		1.00	0.92	27.285	30.01	377.99	0.650	0.000	5.00	18.091	11.76	564.7	0.0	772.5
85.00		1.00	0.94	27.761	30.53	370.69	0.650	0.000	5.00	17.596	11.44	558.8	0.0	751.1
90.00		1.00	0.95	28.219	31.04	363.06	0.650	0.000	5.00	17.100	11.12	552.0	0.0	729.8
90.75	Bot - Section 3	1.00	0.96	28.285	31.11	361.89	0.650	0.000	0.75	2.522	1.64	81.6	0.0	107.6
95.00		1.00	0.97	28.658	31.52	355.12	0.650	0.000	4.25	14.285	9.29	468.3	0.0	1,059.0
95.75	Top - Section 2	1.00	0.97	28.722	31.59	353.90	0.650	0.000	0.75	2.484	1.61	81.6	0.0	184.1
100.00		1.00	0.98	29.081	31.98	352.10	0.650	0.000	4.25	13.864	9.01	461.2	0.0	444.6
105.00		1.00	1.00	29.489	32.43	343.65	0.650	0.000	5.00	15.852	10.30	534.8	0.0	508.3
110.00		1.00	1.01	29.884	32.87	334.96	0.650	0.000	5.00	15.356	9.98	525.0	0.0	492.3
115.00		1.00	1.02	30.266	33.29	326.04	0.650	0.000	5.00	14.861	9.66	514.5	0.0	476.3
116.00	Appertunance(s)	1.00	1.03	30.341	33.37	324.23	0.650	0.000	1.00	2.913	1.89	101.1	0.0	93.3
120.00		1.00	1.04	30.636	33.69	316.90	0.650	0.000	4.00	11.453	7.44	401.4	0.0	366.9
125.00		1.00	1.05	30.995	34.09	307.57	0.650	0.000	5.00	13.870	9.02	491.8	0.0	444.3
126.00	Appertunance(s)	1.00	1.05	31.066	34.17	305.68	0.650	0.000	1.00	2.715	1.76	96.5	0.0	86.9
130.00		1.00	1.06	31.345	34.47	298.05	0.650	0.000	4.00	10.660	6.93	382.3	0.0	341.3
135.00		1.00	1.07	31.684	34.85	288.35	0.650	0.000	5.00	12.879	8.37	466.8	0.0	412.2
137.00	Appertunance(s)	1.00	1.08	31.818	35.00	284.42	0.650	0.000	2.00	5.013	3.26	182.5	0.0	160.4
140.00		1.00	1.08	32.015	35.21	278.48	0.650	0.000	3.00	7.371	4.79	270.0	0.0	235.8
Totals:									140.00			15,235.9	0.0	24,452.5

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
 Taper : 0.234203 (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)

20 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

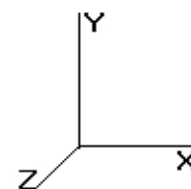
Discrete Appurtenance Segment Forces (Factored)

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)
116.0	Flat Low Profile Pla	1	30.341	33.375	1.00	1.00	26.10	0.000	0.000	1,393.73	0.00	0.00	1,350.00
116.0	RFS DB-T1-6Z-8AB-0Z	1	30.341	33.375	0.67	0.80	2.57	0.000	0.000	137.39	0.00	0.00	39.60
116.0	Antel BXA-171063-12C	6	30.341	33.375	0.88	0.80	20.23	0.000	0.000	1,080.43	0.00	0.00	81.00
116.0	Alcatel-Lucent RRH2x	3	30.341	33.375	0.50	0.80	2.32	0.000	0.000	123.67	0.00	0.00	136.89
116.0	Antel BXA-70063-6CF-	6	30.341	33.375	0.77	0.80	27.98	0.000	0.000	1,494.05	0.00	0.00	91.80
116.0	Alcatel-Lucent RRH2x	3	30.341	33.375	0.67	0.80	3.47	0.000	0.000	185.47	0.00	0.00	118.80
126.0	Flat Low Profile Pla	1	31.066	34.173	1.00	1.00	26.10	0.000	0.000	1,427.05	0.00	0.00	1,350.00
126.0	Kathrein 800 10504	6	31.136	34.250	0.78	0.80	12.50	0.000	1.000	685.27	0.00	685.27	95.04
126.0	RCU	3	31.066	34.173	0.50	0.80	0.19	0.000	0.000	10.50	0.00	0.00	2.70
137.0	Flat Low Profile Pla	1	31.818	35.000	1.00	1.00	26.10	0.000	0.000	1,461.58	0.00	0.00	1,350.00
137.0	Ericsson AIR 21, 1.3	3	31.818	35.000	0.86	0.80	12.49	0.000	0.000	699.28	0.00	0.00	224.10
137.0	Ericsson KRY 112 144	3	31.818	35.000	0.50	0.80	0.49	0.000	0.000	27.55	0.00	0.00	29.70
137.0	Ericsson AIR 21, 1.3	3	31.818	35.000	0.85	0.80	12.42	0.000	0.000	695.71	0.00	0.00	220.05
										9,421.67			5,089.68

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
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 Exposure Category : B
 Topographic Category : 1
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Load Case: 0.9D + 1.6W

110.00 mph with No Ice (Reduced DL)

20 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)
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.041	0.000	0.00	22.14
10.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	20.599	0.041	0.000	0.00	0.36
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.042	0.000	0.00	22.14
15.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	20.599	0.042	0.000	0.00	0.36
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.043	0.000	0.00	22.14
20.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	20.599	0.043	0.000	0.00	0.36
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.043	0.000	0.00	22.14
25.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	20.599	0.043	0.000	0.00	0.36
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.616	0.044	0.000	0.00	22.14
30.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	20.616	0.044	0.000	0.00	0.36
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	21.545	0.045	0.000	0.00	22.14
35.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	21.545	0.045	0.000	0.00	0.36
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	22.383	0.046	0.000	0.00	22.14
40.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	22.383	0.046	0.000	0.00	0.36
44.75	(6) 1 5/8" Coax	Yes	4.75	0.000	1.98	0.78	0.00	23.112	0.047	0.000	0.00	21.03
44.75	(1) 3/8" Coax	Yes	4.75	0.000	0.44	0.17	0.00	23.112	0.047	0.000	0.00	0.34
45.00	(6) 1 5/8" Coax	Yes	0.25	0.000	1.98	0.04	0.00	23.149	0.048	0.000	0.00	1.11
45.00	(1) 3/8" Coax	Yes	0.25	0.000	0.44	0.01	0.00	23.149	0.048	0.000	0.00	0.02
50.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	23.856	0.049	0.000	0.00	22.14
50.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	23.856	0.049	0.000	0.00	0.36
51.00	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	23.991	0.049	0.000	0.00	4.43
51.00	(1) 3/8" Coax	Yes	1.00	0.000	0.44	0.04	0.00	23.991	0.049	0.000	0.00	0.07
55.00	(6) 1 5/8" Coax	Yes	4.00	0.000	1.98	0.66	0.00	24.515	0.049	0.000	0.00	17.71
55.00	(1) 3/8" Coax	Yes	4.00	0.000	0.44	0.15	0.00	24.515	0.049	0.000	0.00	0.29
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	25.132	0.050	0.000	0.00	22.14
60.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	25.132	0.050	0.000	0.00	0.36
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	25.713	0.052	0.000	0.00	22.14
65.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	25.713	0.052	0.000	0.00	0.36
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.263	0.053	0.000	0.00	22.14
70.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	26.263	0.053	0.000	0.00	0.36
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.786	0.054	0.000	0.00	22.14
75.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	26.786	0.054	0.000	0.00	0.36
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	27.285	0.056	0.000	0.00	22.14
80.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	27.285	0.056	0.000	0.00	0.36
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	27.761	0.057	0.000	0.00	22.14
85.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	27.761	0.057	0.000	0.00	0.36
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.219	0.059	0.000	0.00	22.14
90.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	28.219	0.059	0.000	0.00	0.36
90.75	(6) 1 5/8" Coax	Yes	0.75	0.000	1.98	0.12	0.00	28.285	0.060	0.000	0.00	3.32
90.75	(1) 3/8" Coax	Yes	0.75	0.000	0.44	0.03	0.00	28.285	0.060	0.000	0.00	0.05
95.00	(6) 1 5/8" Coax	Yes	4.25	0.000	1.98	0.70	0.00	28.658	0.061	0.000	0.00	18.82
95.00	(1) 3/8" Coax	Yes	4.25	0.000	0.44	0.16	0.00	28.658	0.061	0.000	0.00	0.31
95.75	(6) 1 5/8" Coax	Yes	0.75	0.000	1.98	0.12	0.00	28.722	0.062	0.000	0.00	3.32
95.75	(1) 3/8" Coax	Yes	0.75	0.000	0.44	0.03	0.00	28.722	0.062	0.000	0.00	0.05
100.0	(6) 1 5/8" Coax	Yes	4.25	0.000	1.98	0.70	0.00	29.081	0.062	0.000	0.00	18.82
100.0	(1) 3/8" Coax	Yes	4.25	0.000	0.44	0.16	0.00	29.081	0.062	0.000	0.00	0.31
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	29.489	0.064	0.000	0.00	22.14
105.0	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	29.489	0.064	0.000	0.00	0.36
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	29.884	0.066	0.000	0.00	22.14
110.0	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	29.884	0.066	0.000	0.00	0.36
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	30.266	0.068	0.000	0.00	22.14

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

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20 Iterations

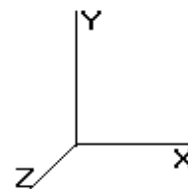
Wind Load Factor : 1.60

115.0	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	30.266	0.068	0.000	0.00	0.36
116.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	30.341	0.069	0.000	0.00	4.43
116.0	(1) 3/8" Coax	Yes	1.00	0.000	0.44	0.04	0.00	30.341	0.069	0.000	0.00	0.07
120.0	(6) 1 5/8" Coax	Yes	4.00	0.000	1.98	0.66	0.00	30.636	0.070	0.000	0.00	17.71
120.0	(1) 3/8" Coax	Yes	4.00	0.000	0.44	0.15	0.00	30.636	0.070	0.000	0.00	0.29
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	30.995	0.073	0.000	0.00	22.14
125.0	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	30.995	0.073	0.000	0.00	0.36
126.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	31.066	0.074	0.000	0.00	4.43
126.0	(1) 3/8" Coax	Yes	1.00	0.000	0.44	0.04	0.00	31.066	0.074	0.000	0.00	0.07
Totals:											0.00	544.50

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
 Taper : 0.234203 (in/ft)

Code: ANSI/TIA-222 Rev G
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Load Case: 0.9D + 1.6W

110.00 mph with No Ice (Reduced DL)

20 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

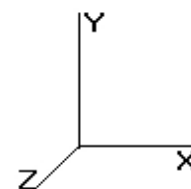
Applied Segment Forces Summary

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	593.98	1,257.40	0.00	0.00
10.00	582.30	1,349.41	0.00	0.00
15.00	570.63	1,324.51	0.00	0.00
20.00	558.95	1,299.61	0.00	0.00
25.00	547.28	1,274.71	0.00	0.00
30.00	536.05	1,249.81	0.00	0.00
35.00	547.98	1,224.91	0.00	0.00
40.00	556.60	1,200.01	0.00	0.00
44.75	533.87	1,116.95	0.00	0.00
45.00	28.24	103.75	0.00	0.00
50.00	574.86	2,050.72	0.00	0.00
51.00	113.99	404.60	0.00	0.00
55.00	460.36	795.15	0.00	0.00
60.00	577.11	974.73	0.00	0.00
65.00	575.89	953.38	0.00	0.00
70.00	573.33	932.04	0.00	0.00
75.00	569.56	910.70	0.00	0.00
80.00	564.69	889.36	0.00	0.00
85.00	558.82	868.02	0.00	0.00
90.00	552.03	846.67	0.00	0.00
90.75	81.62	125.16	0.00	0.00
95.00	468.32	1,158.40	0.00	0.00
95.75	81.61	201.62	0.00	0.00
100.0	461.22	543.99	0.00	0.00
105.0	534.77	625.18	0.00	0.00
110.0	524.99	609.18	0.00	0.00
115.0	514.55	593.17	0.00	0.00
116.0	4,515.83	1,934.80	0.00	0.00
120.0	401.39	425.03	0.00	0.00
125.0	491.82	516.88	0.00	0.00
126.0	2,219.29	1,549.19	0.00	685.27
130.0	382.25	381.42	0.00	0.00
135.0	466.83	462.37	0.00	0.00
137.0	3,066.59	2,004.31	0.00	0.00
140.0	269.96	235.82	0.00	0.00
Totals:	24,657.55	32,392.96	0.00	685.27

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
 Taper : 0.234203 (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)

20 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

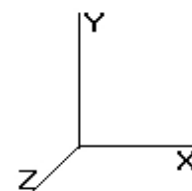
Calculated Forces

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	-32.37	-24.68	0.00	-2,276.13	0.00	2,276.13	5,563.50	2,781.75	13,660.1	6,840.21	0.00	0.00	0.339
5.00	-31.08	-24.13	0.00	-2,152.72	0.00	2,152.72	5,495.04	2,747.52	13,225.5	6,622.59	0.05	-0.08	0.331
10.00	-29.70	-23.59	0.00	-2,032.06	0.00	2,032.06	5,424.94	2,712.47	12,793.7	6,406.38	0.18	-0.17	0.323
15.00	-28.34	-23.06	0.00	-1,914.11	0.00	1,914.11	5,353.22	2,676.61	12,365.0	6,191.70	0.40	-0.25	0.315
20.00	-27.01	-22.53	0.00	-1,798.82	0.00	1,798.82	5,279.88	2,639.94	11,939.5	5,978.66	0.71	-0.34	0.306
25.00	-25.71	-22.01	0.00	-1,686.16	0.00	1,686.16	5,204.91	2,602.46	11,517.6	5,767.39	1.11	-0.42	0.297
30.00	-24.43	-21.50	0.00	-1,576.09	0.00	1,576.09	5,128.32	2,564.16	11,099.4	5,557.99	1.60	-0.51	0.288
35.00	-23.18	-20.98	0.00	-1,468.57	0.00	1,468.57	5,050.10	2,525.05	10,685.3	5,350.59	2.18	-0.59	0.279
40.00	-21.96	-20.44	0.00	-1,363.68	0.00	1,363.68	4,970.26	2,485.13	10,275.3	5,145.31	2.85	-0.68	0.270
44.75	-20.83	-19.91	0.00	-1,266.60	0.00	1,266.60	4,892.90	2,446.45	9,890.02	4,952.36	3.56	-0.76	0.260
45.00	-20.72	-19.89	0.00	-1,261.62	0.00	1,261.62	4,888.79	2,444.40	9,869.86	4,942.27	3.60	-0.76	0.260
50.00	-18.66	-19.31	0.00	-1,162.15	0.00	1,162.15	4,805.70	2,402.85	9,469.07	4,741.57	4.44	-0.84	0.249
51.00	-18.24	-19.20	0.00	-1,142.85	0.00	1,142.85	3,954.70	1,977.35	7,897.06	3,954.40	4.62	-0.86	0.294
55.00	-17.43	-18.75	0.00	-1,066.05	0.00	1,066.05	3,904.91	1,952.45	7,646.13	3,828.75	5.37	-0.92	0.283
60.00	-16.43	-18.18	0.00	-972.30	0.00	972.30	3,841.19	1,920.60	7,335.11	3,673.01	6.38	-1.01	0.269
65.00	-15.46	-17.61	0.00	-881.40	0.00	881.40	3,775.86	1,887.93	7,027.24	3,518.84	7.49	-1.10	0.255
70.00	-14.52	-17.04	0.00	-793.34	0.00	793.34	3,708.90	1,854.45	6,722.77	3,366.38	8.69	-1.19	0.240
75.00	-13.60	-16.47	0.00	-708.13	0.00	708.13	3,640.31	1,820.16	6,421.93	3,215.74	9.98	-1.27	0.224
80.00	-12.70	-15.90	0.00	-625.78	0.00	625.78	3,570.10	1,785.05	6,124.95	3,067.03	11.35	-1.35	0.208
85.00	-11.83	-15.34	0.00	-546.26	0.00	546.26	3,498.27	1,749.13	5,832.07	2,920.37	12.81	-1.42	0.191
90.00	-10.98	-14.77	0.00	-469.56	0.00	469.56	3,424.81	1,712.40	5,543.53	2,775.89	14.34	-1.50	0.172
90.75	-10.85	-14.70	0.00	-458.48	0.00	458.48	3,413.65	1,706.82	5,500.64	2,754.41	14.57	-1.51	0.170
95.00	-9.70	-14.20	0.00	-396.03	0.00	396.03	3,349.72	1,674.86	5,259.57	2,633.69	15.94	-1.56	0.153
95.75	-9.49	-14.12	0.00	-385.38	0.00	385.38	2,312.98	1,156.49	3,686.59	1,846.04	16.19	-1.57	0.213
100.00	-8.95	-13.65	0.00	-325.37	0.00	325.37	2,275.87	1,137.93	3,533.62	1,769.44	17.61	-1.62	0.188
105.00	-8.32	-13.11	0.00	-257.10	0.00	257.10	2,230.70	1,115.35	3,355.32	1,680.15	19.35	-1.69	0.157
110.00	-7.72	-12.57	0.00	-191.56	0.00	191.56	2,183.90	1,091.95	3,179.03	1,591.88	21.16	-1.75	0.124
115.00	-7.13	-12.04	0.00	-128.69	0.00	128.69	2,135.49	1,067.74	3,004.99	1,504.73	23.02	-1.80	0.089
116.00	-5.34	-7.47	0.00	-116.64	0.00	116.64	2,125.61	1,062.80	2,970.48	1,487.45	23.40	-1.80	0.081
120.00	-4.93	-7.06	0.00	-86.76	0.00	86.76	2,085.44	1,042.72	2,833.45	1,418.83	24.92	-1.83	0.064
125.00	-4.42	-6.55	0.00	-51.47	0.00	51.47	2,033.77	1,016.89	2,664.63	1,334.29	26.85	-1.85	0.041
126.00	-2.95	-4.28	0.00	-44.23	0.00	44.23	2,023.25	1,011.62	2,631.21	1,317.56	27.24	-1.86	0.035
130.00	-2.58	-3.89	0.00	-27.10	0.00	27.10	1,980.48	990.24	2,498.77	1,251.24	28.80	-1.87	0.023
135.00	-2.13	-3.41	0.00	-7.65	0.00	7.65	1,925.56	962.78	2,336.10	1,169.79	30.76	-1.88	0.008
137.00	-0.23	-0.28	0.00	-0.83	0.00	0.83	1,903.14	951.57	2,271.99	1,137.68	31.55	-1.88	0.001
140.00	0.00	-0.27	0.00	0.00	0.00	0.00	1,869.02	934.51	2,176.88	1,090.06	32.73	-1.88	0.000

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
 Taper : 0.234203 (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	19 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		

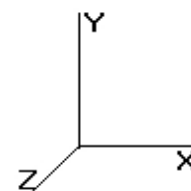
Shaft Segment Forces (Factored)

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	26.241	31.49	147.4	468.7	2,145.2
10.00		1.00	0.70	4.256	4.682	0.000	1.200	1.331	5.00	25.819	30.98	145.1	493.3	2,136.6
15.00		1.00	0.70	4.256	4.682	0.000	1.200	1.386	5.00	25.370	30.44	142.5	504.0	2,114.1
20.00		1.00	0.70	4.256	4.682	0.000	1.200	1.427	5.00	24.908	29.89	139.9	508.6	2,085.5
25.00		1.00	0.70	4.256	4.682	0.000	1.200	1.459	5.00	24.440	29.33	137.3	509.6	2,053.4
30.00		1.00	0.70	4.260	4.686	0.000	1.200	1.486	5.00	23.966	28.76	134.8	508.3	2,018.9
35.00		1.00	0.73	4.451	4.897	0.000	1.200	1.509	5.00	23.490	28.19	138.0	505.4	1,982.7
40.00		1.00	0.76	4.625	5.087	0.000	1.200	1.529	5.00	23.012	27.61	140.5	501.1	1,945.3
44.75	Bot - Section 2	1.00	0.78	4.775	5.253	0.000	1.200	1.546	4.75	21.416	25.70	135.0	471.4	1,812.6
45.00		1.00	0.78	4.783	5.261	0.000	1.200	1.547	0.25	1.131	1.36	7.1	25.2	155.7
50.00		1.00	0.81	4.929	5.422	0.000	1.200	1.564	5.00	22.367	26.84	145.5	497.2	3,075.6
51.00	Top - Section 1	1.00	0.81	4.957	5.453	0.000	1.200	1.567	1.00	4.414	5.30	28.9	99.2	607.5
55.00		1.00	0.83	5.065	5.572	0.000	1.200	1.579	4.00	17.468	20.96	116.8	392.4	1,327.9
60.00		1.00	0.85	5.193	5.712	0.000	1.200	1.592	5.00	21.400	25.68	146.7	483.2	1,627.0
65.00		1.00	0.87	5.313	5.844	0.000	1.200	1.605	5.00	20.915	25.10	146.7	475.5	1,590.8
70.00		1.00	0.89	5.426	5.969	0.000	1.200	1.617	5.00	20.430	24.52	146.3	467.3	1,554.1
75.00		1.00	0.91	5.534	6.088	0.000	1.200	1.628	5.00	19.944	23.93	145.7	458.7	1,517.1
80.00		1.00	0.92	5.637	6.201	0.000	1.200	1.639	5.00	19.457	23.35	144.8	449.7	1,479.7
85.00		1.00	0.94	5.736	6.309	0.000	1.200	1.649	5.00	18.970	22.76	143.6	440.4	1,441.9
90.00		1.00	0.95	5.830	6.413	0.000	1.200	1.658	5.00	18.482	22.18	142.2	430.9	1,403.9
90.75	Bot - Section 3	1.00	0.96	5.844	6.429	0.000	1.200	1.660	0.75	2.730	3.28	21.1	64.4	207.9
95.00		1.00	0.97	5.921	6.513	0.000	1.200	1.667	4.25	15.466	18.56	120.9	362.9	1,775.0
95.75	Top - Section 2	1.00	0.97	5.934	6.528	0.000	1.200	1.669	0.75	2.692	3.23	21.1	63.8	309.3
100.0		1.00	0.98	6.008	6.609	0.000	1.200	1.676	4.25	15.051	18.06	119.4	354.4	947.2
105.0		1.00	1.00	6.093	6.702	0.000	1.200	1.684	5.00	17.255	20.71	138.8	406.7	1,084.4
110.0		1.00	1.01	6.174	6.792	0.000	1.200	1.692	5.00	16.766	20.12	136.6	396.3	1,052.7
115.0		1.00	1.02	6.253	6.879	0.000	1.200	1.699	5.00	16.277	19.53	134.4	385.7	1,020.7
116.0	Appertunance(s)	1.00	1.03	6.269	6.896	0.000	1.200	1.701	1.00	3.196	3.84	26.4	76.7	201.1
120.0		1.00	1.04	6.330	6.963	0.000	1.200	1.707	4.00	12.591	15.11	105.2	299.9	789.1
125.0		1.00	1.05	6.404	7.044	0.000	1.200	1.714	5.00	15.298	18.36	129.3	363.9	956.2
126.0	Appertunance(s)	1.00	1.05	6.419	7.060	0.000	1.200	1.715	1.00	3.000	3.60	25.4	72.3	188.2
130.0		1.00	1.06	6.476	7.124	0.000	1.200	1.720	4.00	11.807	14.17	100.9	282.2	737.3
135.0		1.00	1.07	6.546	7.201	0.000	1.200	1.727	5.00	14.318	17.18	123.7	341.5	891.2
137.0	Appertunance(s)	1.00	1.08	6.574	7.231	0.000	1.200	1.729	2.00	5.589	6.71	48.5	134.8	348.7
140.0		1.00	1.08	6.615	7.276	0.000	1.200	1.733	3.00	8.237	9.88	71.9	198.1	512.5
Totals:									140.00			3,898.5	12,493.6	45,096.9

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
 Taper : 0.234203 (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	19 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		

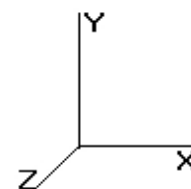
Discrete Appurtenance Segment Forces (Factored)

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)
116.0	Flat Low Profile Pla	1	6.269	6.896	1.00	1.00	44.75	0.000	0.000	308.55	0.00	0.00	3,932.75
116.0	RFS DB-T1-6Z-8AB-0Z	1	6.269	6.896	0.67	0.80	3.03	0.000	0.000	20.88	0.00	0.00	192.25
116.0	Antel BXA-171063-12C	6	6.269	6.896	0.88	0.80	25.31	0.000	0.000	174.51	0.00	0.00	807.27
116.0	Alcatel-Lucent RRH2x	3	6.269	6.896	0.50	0.80	2.97	0.000	0.000	20.51	0.00	0.00	388.27
116.0	Antel BXA-70063-6CF-	6	6.269	6.896	0.77	0.80	32.47	0.000	0.000	223.89	0.00	0.00	1,134.41
116.0	Alcatel-Lucent RRH2x	3	6.269	6.896	0.67	0.80	4.48	0.000	0.000	30.89	0.00	0.00	371.97
126.0	Flat Low Profile Pla	1	6.419	7.060	1.00	1.00	44.90	0.000	0.000	317.02	0.00	0.00	2,238.00
126.0	Kathrein 800 10504	6	6.433	7.076	0.78	0.80	16.03	0.000	1.000	113.43	0.00	113.43	606.16
126.0	RCU	3	6.419	7.060	0.50	0.80	0.43	0.000	0.000	3.03	0.00	0.00	33.25
137.0	Flat Low Profile Pla	1	6.574	7.231	1.00	1.00	45.06	0.000	0.000	325.83	0.00	0.00	2,243.36
137.0	Ericsson AIR 21, 1.3	3	6.574	7.231	0.86	0.80	14.73	0.000	0.000	106.53	0.00	0.00	800.46
137.0	Ericsson KRY 112 144	3	6.574	7.231	0.50	0.80	0.76	0.000	0.000	5.48	0.00	0.00	88.09
137.0	Ericsson AIR 21, 1.3	3	6.574	7.231	0.85	0.80	14.65	0.000	0.000	105.95	0.00	0.00	794.93
										1,756.49			13,631.18

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
 Taper : 0.234203 (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	19 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		

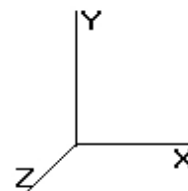
Linear Appurtenance Segment Forces (Factored)

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)
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	1.93	0.00	4.256	0.041	0.000	0.00	111.66
10.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	1.29	0.00	4.256	0.041	0.000	0.00	13.66
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	1.98	0.00	4.256	0.042	0.000	0.00	115.12
15.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	1.34	0.00	4.256	0.042	0.000	0.00	14.67
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.01	0.00	4.256	0.043	0.000	0.00	117.69
20.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	1.37	0.00	4.256	0.043	0.000	0.00	15.44
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.04	0.00	4.256	0.043	0.000	0.00	119.74
25.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	1.40	0.00	4.256	0.043	0.000	0.00	16.06
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.06	0.00	4.260	0.044	0.000	0.00	121.46
30.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	1.42	0.00	4.260	0.044	0.000	0.00	16.59
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.08	0.00	4.451	0.045	0.000	0.00	122.95
35.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	1.44	0.00	4.451	0.045	0.000	0.00	17.05
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.10	0.00	4.625	0.046	0.000	0.00	124.27
40.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	1.46	0.00	4.625	0.046	0.000	0.00	17.46
44.75	(6) 1 5/8" Coax	Yes	4.75	0.000	1.98	2.01	0.00	4.775	0.047	0.000	0.00	119.12
44.75	(1) 3/8" Coax	Yes	4.75	0.000	0.44	1.40	0.00	4.775	0.047	0.000	0.00	16.92
45.00	(6) 1 5/8" Coax	Yes	0.25	0.000	1.98	0.11	0.00	4.783	0.048	0.000	0.00	6.27
45.00	(1) 3/8" Coax	Yes	0.25	0.000	0.44	0.07	0.00	4.783	0.048	0.000	0.00	0.89
50.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.13	0.00	4.929	0.049	0.000	0.00	126.51
50.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	1.49	0.00	4.929	0.049	0.000	0.00	18.17
51.00	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.43	0.00	4.957	0.049	0.000	0.00	25.34
51.00	(1) 3/8" Coax	Yes	1.00	0.000	0.44	0.30	0.00	4.957	0.049	0.000	0.00	3.65
55.00	(6) 1 5/8" Coax	Yes	4.00	0.000	1.98	1.71	0.00	5.065	0.049	0.000	0.00	101.99
55.00	(1) 3/8" Coax	Yes	4.00	0.000	0.44	1.20	0.00	5.065	0.049	0.000	0.00	14.79
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.15	0.00	5.193	0.050	0.000	0.00	128.39
60.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	1.51	0.00	5.193	0.050	0.000	0.00	18.78
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.16	0.00	5.313	0.052	0.000	0.00	129.24
65.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	1.52	0.00	5.313	0.052	0.000	0.00	19.05
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.17	0.00	5.426	0.053	0.000	0.00	130.02
70.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	1.53	0.00	5.426	0.053	0.000	0.00	19.30
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.18	0.00	5.534	0.054	0.000	0.00	130.76
75.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	1.54	0.00	5.534	0.054	0.000	0.00	19.54
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.19	0.00	5.637	0.056	0.000	0.00	131.46
80.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	1.55	0.00	5.637	0.056	0.000	0.00	19.77
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.20	0.00	5.736	0.057	0.000	0.00	132.12
85.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	1.56	0.00	5.736	0.057	0.000	0.00	19.99
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.21	0.00	5.830	0.059	0.000	0.00	132.75
90.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	1.57	0.00	5.830	0.059	0.000	0.00	20.20
90.75	(6) 1 5/8" Coax	Yes	0.75	0.000	1.98	0.33	0.00	5.844	0.060	0.000	0.00	19.93
90.75	(1) 3/8" Coax	Yes	0.75	0.000	0.44	0.23	0.00	5.844	0.060	0.000	0.00	3.03
95.00	(6) 1 5/8" Coax	Yes	4.25	0.000	1.98	1.88	0.00	5.921	0.061	0.000	0.00	113.34
95.00	(1) 3/8" Coax	Yes	4.25	0.000	0.44	1.34	0.00	5.921	0.061	0.000	0.00	17.34
95.75	(6) 1 5/8" Coax	Yes	0.75	0.000	1.98	0.33	0.00	5.934	0.062	0.000	0.00	20.01
95.75	(1) 3/8" Coax	Yes	0.75	0.000	0.44	0.24	0.00	5.934	0.062	0.000	0.00	3.06
100.0	(6) 1 5/8" Coax	Yes	4.25	0.000	1.98	1.89	0.00	6.008	0.062	0.000	0.00	113.83
100.0	(1) 3/8" Coax	Yes	4.25	0.000	0.44	1.34	0.00	6.008	0.062	0.000	0.00	17.50
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.23	0.00	6.093	0.064	0.000	0.00	134.46
105.0	(1) 3/8" Coax	Yes	5.00	0.000	0.44	1.59	0.00	6.093	0.064	0.000	0.00	20.77
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.23	0.00	6.174	0.066	0.000	0.00	134.99
110.0	(1) 3/8" Coax	Yes	5.00	0.000	0.44	1.59	0.00	6.174	0.066	0.000	0.00	20.94
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.24	0.00	6.253	0.068	0.000	0.00	135.49

Pole : 311014
Location : Norwich CT, CT
Height : 140.0 (ft)
Base Dia : 60.16 (in)
Top Dia : 28.68 (in)
Shape : 18 Sides
Taper : 0.234203 (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 19 Iterations

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

Ice Dead Load Factor : 1.00

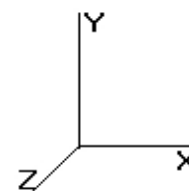
Wind Importance Factor : 1.00
Ice Importance Factor : 1.00

115.0	(1) 3/8" Coax	Yes	5.00	0.000	0.44	1.60	0.00	6.253	0.068	0.000	0.00	21.11
116.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.45	0.00	6.269	0.069	0.000	0.00	27.12
116.0	(1) 3/8" Coax	Yes	1.00	0.000	0.44	0.32	0.00	6.269	0.069	0.000	0.00	4.23
120.0	(6) 1 5/8" Coax	Yes	4.00	0.000	1.98	1.80	0.00	6.330	0.070	0.000	0.00	108.78
120.0	(1) 3/8" Coax	Yes	4.00	0.000	0.44	1.28	0.00	6.330	0.070	0.000	0.00	17.02
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.25	0.00	6.404	0.073	0.000	0.00	136.45
125.0	(1) 3/8" Coax	Yes	5.00	0.000	0.44	1.61	0.00	6.404	0.073	0.000	0.00	21.43
126.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.45	0.00	6.419	0.074	0.000	0.00	27.31
126.0	(1) 3/8" Coax	Yes	1.00	0.000	0.44	0.32	0.00	6.419	0.074	0.000	0.00	4.29
Totals:											0.00	3,551.29

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
 Taper : 0.234203 (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	19 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		

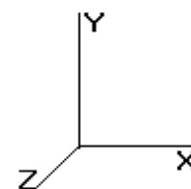
Applied Segment Forces Summary

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	147.42	2,145.19	0.00	0.00
10.00	145.05	2,387.79	0.00	0.00
15.00	142.53	2,369.77	0.00	0.00
20.00	139.93	2,344.50	0.00	0.00
25.00	137.30	2,315.04	0.00	0.00
30.00	134.76	2,282.81	0.00	0.00
35.00	138.03	2,248.60	0.00	0.00
40.00	140.47	2,212.89	0.00	0.00
44.75	134.99	2,068.19	0.00	0.00
45.00	7.14	169.16	0.00	0.00
50.00	145.52	3,346.17	0.00	0.00
51.00	28.88	661.63	0.00	0.00
55.00	116.78	1,545.38	0.00	0.00
60.00	146.68	1,900.05	0.00	0.00
65.00	146.67	1,864.94	0.00	0.00
70.00	146.33	1,829.31	0.00	0.00
75.00	145.69	1,793.24	0.00	0.00
80.00	144.78	1,756.76	0.00	0.00
85.00	143.63	1,719.92	0.00	0.00
90.00	142.24	1,682.75	0.00	0.00
90.75	21.06	249.76	0.00	0.00
95.00	120.88	2,012.64	0.00	0.00
95.75	21.09	351.23	0.00	0.00
100.0	119.37	1,185.56	0.00	0.00
105.0	138.78	1,365.53	0.00	0.00
110.0	136.65	1,334.45	0.00	0.00
115.0	134.36	1,303.16	0.00	0.00
116.0	805.67	7,084.58	0.00	0.00
120.0	105.20	968.39	0.00	0.00
125.0	129.32	1,180.94	0.00	0.00
126.0	458.90	3,110.63	0.00	113.43
130.0	100.93	790.77	0.00	0.00
135.0	123.73	957.98	0.00	0.00
137.0	592.30	4,302.24	0.00	0.00
140.0	71.92	512.48	0.00	0.00
Totals:	5,654.96	65,354.43	0.00	113.43

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
 Taper : 0.234203 (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	19 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		

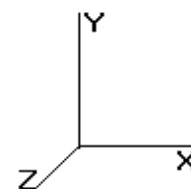
Calculated Forces

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	-65.35	-5.67	0.00	-511.75	0.00	511.75	5,563.50	2,781.75	13,660.1	6,840.21	0.00	0.00	0.087
5.00	-63.21	-5.54	0.00	-483.42	0.00	483.42	5,495.04	2,747.52	13,225.5	6,622.59	0.01	-0.02	0.085
10.00	-60.82	-5.41	0.00	-455.73	0.00	455.73	5,424.94	2,712.47	12,793.7	6,406.38	0.04	-0.04	0.082
15.00	-58.45	-5.29	0.00	-428.66	0.00	428.66	5,353.22	2,676.61	12,365.0	6,191.70	0.09	-0.06	0.080
20.00	-56.10	-5.16	0.00	-402.23	0.00	402.23	5,279.88	2,639.94	11,939.5	5,978.66	0.16	-0.08	0.078
25.00	-53.78	-5.04	0.00	-376.41	0.00	376.41	5,204.91	2,602.46	11,517.6	5,767.39	0.25	-0.09	0.076
30.00	-51.50	-4.92	0.00	-351.21	0.00	351.21	5,128.32	2,564.16	11,099.4	5,557.99	0.36	-0.11	0.073
35.00	-49.25	-4.79	0.00	-326.62	0.00	326.62	5,050.10	2,525.05	10,685.3	5,350.59	0.49	-0.13	0.071
40.00	-47.03	-4.66	0.00	-302.66	0.00	302.66	4,970.26	2,485.13	10,275.3	5,145.31	0.64	-0.15	0.068
44.75	-44.97	-4.53	0.00	-280.53	0.00	280.53	4,892.90	2,446.45	9,890.02	4,952.36	0.80	-0.17	0.066
45.00	-44.80	-4.53	0.00	-279.39	0.00	279.39	4,888.79	2,444.40	9,869.86	4,942.27	0.81	-0.17	0.066
50.00	-41.45	-4.38	0.00	-256.76	0.00	256.76	4,805.70	2,402.85	9,469.07	4,741.57	0.99	-0.19	0.063
51.00	-40.79	-4.35	0.00	-252.38	0.00	252.38	3,954.70	1,977.35	7,897.06	3,954.40	1.03	-0.19	0.074
55.00	-39.24	-4.24	0.00	-234.97	0.00	234.97	3,904.91	1,952.45	7,646.13	3,828.75	1.20	-0.21	0.071
60.00	-37.34	-4.10	0.00	-213.75	0.00	213.75	3,841.19	1,920.60	7,335.11	3,673.01	1.43	-0.23	0.068
65.00	-35.48	-3.96	0.00	-193.23	0.00	193.23	3,775.86	1,887.93	7,027.24	3,518.84	1.67	-0.24	0.064
70.00	-33.65	-3.82	0.00	-173.43	0.00	173.43	3,708.90	1,854.45	6,722.77	3,366.38	1.94	-0.26	0.061
75.00	-31.85	-3.67	0.00	-154.35	0.00	154.35	3,640.31	1,820.16	6,421.93	3,215.74	2.23	-0.28	0.057
80.00	-30.09	-3.53	0.00	-135.99	0.00	135.99	3,570.10	1,785.05	6,124.95	3,067.03	2.53	-0.30	0.053
85.00	-28.37	-3.38	0.00	-118.36	0.00	118.36	3,498.27	1,749.13	5,832.07	2,920.37	2.85	-0.32	0.049
90.00	-26.69	-3.23	0.00	-101.45	0.00	101.45	3,424.81	1,712.40	5,543.53	2,775.89	3.19	-0.33	0.044
90.75	-26.44	-3.22	0.00	-99.02	0.00	99.02	3,413.65	1,706.82	5,500.64	2,754.41	3.24	-0.33	0.044
95.00	-24.43	-3.09	0.00	-85.36	0.00	85.36	3,349.72	1,674.86	5,259.57	2,633.69	3.55	-0.35	0.040
95.75	-24.08	-3.07	0.00	-83.04	0.00	83.04	2,312.98	1,156.49	3,686.59	1,846.04	3.60	-0.35	0.055
100.00	-22.89	-2.94	0.00	-70.02	0.00	70.02	2,275.87	1,137.93	3,533.62	1,769.44	3.92	-0.36	0.050
105.00	-21.53	-2.80	0.00	-55.30	0.00	55.30	2,230.70	1,115.35	3,355.32	1,680.15	4.30	-0.37	0.043
110.00	-20.19	-2.66	0.00	-41.29	0.00	41.29	2,183.90	1,091.95	3,179.03	1,591.88	4.70	-0.39	0.035
115.00	-18.89	-2.52	0.00	-27.99	0.00	27.99	2,135.49	1,067.74	3,004.99	1,504.73	5.11	-0.40	0.027
116.00	-11.81	-1.66	0.00	-25.47	0.00	25.47	2,125.61	1,062.80	2,970.48	1,487.45	5.19	-0.40	0.023
120.00	-10.84	-1.55	0.00	-18.81	0.00	18.81	2,085.44	1,042.72	2,833.45	1,418.83	5.53	-0.40	0.018
125.00	-9.66	-1.42	0.00	-11.04	0.00	11.04	2,033.77	1,016.89	2,664.63	1,334.29	5.95	-0.41	0.013
126.00	-6.56	-0.94	0.00	-9.51	0.00	9.51	2,023.25	1,011.62	2,631.21	1,317.56	6.04	-0.41	0.010
130.00	-5.77	-0.83	0.00	-5.77	0.00	5.77	1,980.48	990.24	2,498.77	1,251.24	6.38	-0.41	0.008
135.00	-4.81	-0.70	0.00	-1.62	0.00	1.62	1,925.56	962.78	2,336.10	1,169.79	6.81	-0.41	0.004
137.00	-0.51	-0.08	0.00	-0.23	0.00	0.23	1,903.14	951.57	2,271.99	1,137.68	6.99	-0.41	0.000
140.00	0.00	-0.07	0.00	0.00	0.00	0.00	1,869.02	934.51	2,176.88	1,090.06	7.24	-0.41	0.000

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
 Taper : 0.234203 (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

19 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

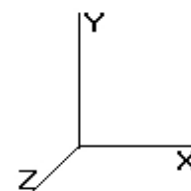
Shaft Segment Forces (Factored)

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	255.54	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	6.129	6.742	250.57	0.650	0.000	5.00	25.206	16.38	110.5	0.0	1,397.1
10.00		1.00	0.70	6.129	6.742	245.60	0.650	0.000	5.00	24.710	16.06	108.3	0.0	1,369.4
15.00		1.00	0.70	6.129	6.742	240.62	0.650	0.000	5.00	24.215	15.74	106.1	0.0	1,341.8
20.00		1.00	0.70	6.129	6.742	235.65	0.650	0.000	5.00	23.719	15.42	103.9	0.0	1,314.1
25.00		1.00	0.70	6.129	6.742	230.67	0.650	0.000	5.00	23.224	15.10	101.8	0.0	1,286.5
30.00		1.00	0.70	6.134	6.747	225.79	0.650	0.000	5.00	22.728	14.77	99.7	0.0	1,258.8
35.00		1.00	0.73	6.410	7.051	225.73	0.650	0.000	5.00	22.233	14.45	101.9	0.0	1,231.1
40.00		1.00	0.76	6.659	7.325	224.90	0.650	0.000	5.00	21.737	14.13	103.5	0.0	1,203.5
44.75	Bot - Section 2	1.00	0.78	6.876	7.564	223.53	0.650	0.000	4.75	20.192	13.12	99.3	0.0	1,117.7
45.00		1.00	0.78	6.887	7.576	223.44	0.650	0.000	0.25	1.066	0.69	5.3	0.0	108.8
50.00		1.00	0.81	7.098	7.807	221.48	0.650	0.000	5.00	21.064	13.69	106.9	0.0	2,148.7
51.00	Top - Section 1	1.00	0.81	7.138	7.852	221.03	0.650	0.000	1.00	4.153	2.70	21.2	0.0	423.6
55.00		1.00	0.83	7.294	8.023	222.56	0.650	0.000	4.00	16.415	10.67	85.6	0.0	779.6
60.00		1.00	0.85	7.477	8.225	219.85	0.650	0.000	5.00	20.073	13.05	107.3	0.0	953.1
65.00		1.00	0.87	7.650	8.415	216.82	0.650	0.000	5.00	19.578	12.73	107.1	0.0	929.4
70.00		1.00	0.89	7.814	8.595	213.51	0.650	0.000	5.00	19.082	12.40	106.6	0.0	905.7
75.00		1.00	0.91	7.969	8.766	209.95	0.650	0.000	5.00	18.587	12.08	105.9	0.0	882.0
80.00		1.00	0.92	8.118	8.930	206.17	0.650	0.000	5.00	18.091	11.76	105.0	0.0	858.3
85.00		1.00	0.94	8.260	9.086	202.19	0.650	0.000	5.00	17.596	11.44	103.9	0.0	834.6
90.00		1.00	0.95	8.396	9.235	198.03	0.650	0.000	5.00	17.100	11.12	102.7	0.0	810.9
90.75	Bot - Section 3	1.00	0.96	8.416	9.257	197.39	0.650	0.000	0.75	2.522	1.64	15.2	0.0	119.6
95.00		1.00	0.97	8.526	9.379	193.70	0.650	0.000	4.25	14.285	9.29	87.1	0.0	1,176.7
95.75	Top - Section 2	1.00	0.97	8.545	9.400	193.03	0.650	0.000	0.75	2.484	1.61	15.2	0.0	204.5
100.0		1.00	0.98	8.652	9.517	192.05	0.650	0.000	4.25	13.864	9.01	85.8	0.0	494.0
105.0		1.00	1.00	8.774	9.651	187.44	0.650	0.000	5.00	15.852	10.30	99.4	0.0	564.8
110.0		1.00	1.01	8.891	9.780	182.70	0.650	0.000	5.00	15.356	9.98	97.6	0.0	547.0
115.0		1.00	1.02	9.005	9.905	177.84	0.650	0.000	5.00	14.861	9.66	95.7	0.0	529.2
116.0	Appertunance(s)	1.00	1.03	9.027	9.930	176.85	0.650	0.000	1.00	2.913	1.89	18.8	0.0	103.7
120.0		1.00	1.04	9.115	10.02	172.85	0.650	0.000	4.00	11.453	7.44	74.6	0.0	407.7
125.0		1.00	1.05	9.222	10.14	167.76	0.650	0.000	5.00	13.870	9.02	91.5	0.0	493.6
126.0	Appertunance(s)	1.00	1.05	9.243	10.16	166.73	0.650	0.000	1.00	2.715	1.76	17.9	0.0	96.6
130.0		1.00	1.06	9.326	10.25	162.57	0.650	0.000	4.00	10.660	6.93	71.1	0.0	379.2
135.0		1.00	1.07	9.427	10.36	157.28	0.650	0.000	5.00	12.879	8.37	86.8	0.0	458.0
137.0	Appertunance(s)	1.00	1.08	9.466	10.41	155.14	0.650	0.000	2.00	5.013	3.26	33.9	0.0	178.2
140.0		1.00	1.08	9.525	10.47	151.90	0.650	0.000	3.00	7.371	4.79	50.2	0.0	262.0
Totals:									140.00			2,833.1	0.0	27,169.4

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
 Taper : 0.234203 (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

19 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

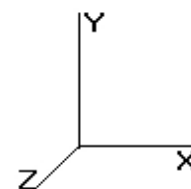
Discrete Appurtenance Segment Forces (Factored)

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)
116.0	Flat Low Profile Pla	1	9.027	9.930	1.00	1.00	26.10	0.000	0.000	259.16	0.00	0.00	1,500.00
116.0	RFS DB-T1-6Z-8AB-0Z	1	9.027	9.930	0.67	0.80	2.57	0.000	0.000	25.55	0.00	0.00	44.00
116.0	Antel BXA-171063-12C	6	9.027	9.930	0.88	0.80	20.23	0.000	0.000	200.91	0.00	0.00	90.00
116.0	Alcatel-Lucent RRH2x	3	9.027	9.930	0.50	0.80	2.32	0.000	0.000	23.00	0.00	0.00	152.10
116.0	Antel BXA-70063-6CF-	6	9.027	9.930	0.77	0.80	27.98	0.000	0.000	277.82	0.00	0.00	102.00
116.0	Alcatel-Lucent RRH2x	3	9.027	9.930	0.67	0.80	3.47	0.000	0.000	34.49	0.00	0.00	132.00
126.0	Flat Low Profile Pla	1	9.243	10.167	1.00	1.00	26.10	0.000	0.000	265.36	0.00	0.00	1,500.00
126.0	Kathrein 800 10504	6	9.264	10.190	0.78	0.80	12.50	0.000	1.000	127.43	0.00	127.43	105.60
126.0	RCU	3	9.243	10.167	0.50	0.80	0.19	0.000	0.000	1.95	0.00	0.00	3.00
137.0	Flat Low Profile Pla	1	9.466	10.413	1.00	1.00	26.10	0.000	0.000	271.78	0.00	0.00	1,500.00
137.0	Ericsson AIR 21, 1.3	3	9.466	10.413	0.86	0.80	12.49	0.000	0.000	130.03	0.00	0.00	249.00
137.0	Ericsson KRY 112 144	3	9.466	10.413	0.50	0.80	0.49	0.000	0.000	5.12	0.00	0.00	33.00
137.0	Ericsson AIR 21, 1.3	3	9.466	10.413	0.85	0.80	12.42	0.000	0.000	129.37	0.00	0.00	244.50
										1,751.96			5,655.20

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
 Taper : 0.234203 (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

19 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

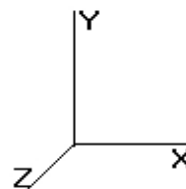
Wind Load Factor : 1.00

Linear Appurtenance Segment Forces (Factored)

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	FX (lb)	Dead Load (lb)
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.129	0.041	0.000	0.00	24.60
10.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	6.129	0.041	0.000	0.00	0.40
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.129	0.042	0.000	0.00	24.60
15.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	6.129	0.042	0.000	0.00	0.40
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.129	0.043	0.000	0.00	24.60
20.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	6.129	0.043	0.000	0.00	0.40
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.129	0.043	0.000	0.00	24.60
25.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	6.129	0.043	0.000	0.00	0.40
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.134	0.044	0.000	0.00	24.60
30.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	6.134	0.044	0.000	0.00	0.40
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.410	0.045	0.000	0.00	24.60
35.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	6.410	0.045	0.000	0.00	0.40
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.659	0.046	0.000	0.00	24.60
40.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	6.659	0.046	0.000	0.00	0.40
44.75	(6) 1 5/8" Coax	Yes	4.75	0.000	1.98	0.78	0.00	6.876	0.047	0.000	0.00	23.37
44.75	(1) 3/8" Coax	Yes	4.75	0.000	0.44	0.17	0.00	6.876	0.047	0.000	0.00	0.38
45.00	(6) 1 5/8" Coax	Yes	0.25	0.000	1.98	0.04	0.00	6.887	0.048	0.000	0.00	1.23
45.00	(1) 3/8" Coax	Yes	0.25	0.000	0.44	0.01	0.00	6.887	0.048	0.000	0.00	0.02
50.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.098	0.049	0.000	0.00	24.60
50.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	7.098	0.049	0.000	0.00	0.40
51.00	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	7.138	0.049	0.000	0.00	4.92
51.00	(1) 3/8" Coax	Yes	1.00	0.000	0.44	0.04	0.00	7.138	0.049	0.000	0.00	0.08
55.00	(6) 1 5/8" Coax	Yes	4.00	0.000	1.98	0.66	0.00	7.294	0.049	0.000	0.00	19.68
55.00	(1) 3/8" Coax	Yes	4.00	0.000	0.44	0.15	0.00	7.294	0.049	0.000	0.00	0.32
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.477	0.050	0.000	0.00	24.60
60.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	7.477	0.050	0.000	0.00	0.40
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.650	0.052	0.000	0.00	24.60
65.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	7.650	0.052	0.000	0.00	0.40
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.814	0.053	0.000	0.00	24.60
70.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	7.814	0.053	0.000	0.00	0.40
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.969	0.054	0.000	0.00	24.60
75.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	7.969	0.054	0.000	0.00	0.40
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.118	0.056	0.000	0.00	24.60
80.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	8.118	0.056	0.000	0.00	0.40
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.260	0.057	0.000	0.00	24.60
85.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	8.260	0.057	0.000	0.00	0.40
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.396	0.059	0.000	0.00	24.60
90.00	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	8.396	0.059	0.000	0.00	0.40
90.75	(6) 1 5/8" Coax	Yes	0.75	0.000	1.98	0.12	0.00	8.416	0.060	0.000	0.00	3.69
90.75	(1) 3/8" Coax	Yes	0.75	0.000	0.44	0.03	0.00	8.416	0.060	0.000	0.00	0.06
95.00	(6) 1 5/8" Coax	Yes	4.25	0.000	1.98	0.70	0.00	8.526	0.061	0.000	0.00	20.91
95.00	(1) 3/8" Coax	Yes	4.25	0.000	0.44	0.16	0.00	8.526	0.061	0.000	0.00	0.34
95.75	(6) 1 5/8" Coax	Yes	0.75	0.000	1.98	0.12	0.00	8.545	0.062	0.000	0.00	3.69
95.75	(1) 3/8" Coax	Yes	0.75	0.000	0.44	0.03	0.00	8.545	0.062	0.000	0.00	0.06
100.0	(6) 1 5/8" Coax	Yes	4.25	0.000	1.98	0.70	0.00	8.652	0.062	0.000	0.00	20.91
100.0	(1) 3/8" Coax	Yes	4.25	0.000	0.44	0.16	0.00	8.652	0.062	0.000	0.00	0.34
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.774	0.064	0.000	0.00	24.60
105.0	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	8.774	0.064	0.000	0.00	0.40
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.891	0.066	0.000	0.00	24.60
110.0	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	8.891	0.066	0.000	0.00	0.40
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	9.005	0.068	0.000	0.00	24.60

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

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19 Iterations

Wind Importance Factor : 1.00

Wind Load Factor : 1.00

Wind Load Factor : 1.00

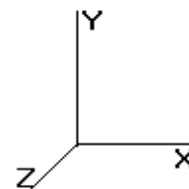
Wind Load Factor : 1.00

115.0	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	9.005	0.068	0.000	0.00	0.40
116.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	9.027	0.069	0.000	0.00	4.92
116.0	(1) 3/8" Coax	Yes	1.00	0.000	0.44	0.04	0.00	9.027	0.069	0.000	0.00	0.08
120.0	(6) 1 5/8" Coax	Yes	4.00	0.000	1.98	0.66	0.00	9.115	0.070	0.000	0.00	19.68
120.0	(1) 3/8" Coax	Yes	4.00	0.000	0.44	0.15	0.00	9.115	0.070	0.000	0.00	0.32
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	9.222	0.073	0.000	0.00	24.60
125.0	(1) 3/8" Coax	Yes	5.00	0.000	0.44	0.18	0.00	9.222	0.073	0.000	0.00	0.40
126.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	9.243	0.074	0.000	0.00	4.92
126.0	(1) 3/8" Coax	Yes	1.00	0.000	0.44	0.04	0.00	9.243	0.074	0.000	0.00	0.08
Totals:											0.00	605.00

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
 Taper : 0.234203 (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

19 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

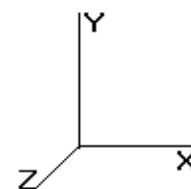
Applied Segment Forces Summary

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	110.45	1,397.11	0.00	0.00
10.00	108.28	1,499.34	0.00	0.00
15.00	106.11	1,471.68	0.00	0.00
20.00	103.94	1,444.01	0.00	0.00
25.00	101.77	1,416.35	0.00	0.00
30.00	99.68	1,388.68	0.00	0.00
35.00	101.90	1,361.01	0.00	0.00
40.00	103.50	1,333.35	0.00	0.00
44.75	99.27	1,241.06	0.00	0.00
45.00	5.25	115.28	0.00	0.00
50.00	106.90	2,278.58	0.00	0.00
51.00	21.20	449.55	0.00	0.00
55.00	85.60	883.50	0.00	0.00
60.00	107.31	1,083.03	0.00	0.00
65.00	107.09	1,059.32	0.00	0.00
70.00	106.61	1,035.60	0.00	0.00
75.00	105.91	1,011.89	0.00	0.00
80.00	105.00	988.18	0.00	0.00
85.00	103.91	964.46	0.00	0.00
90.00	102.65	940.75	0.00	0.00
90.75	15.18	139.07	0.00	0.00
95.00	87.08	1,287.11	0.00	0.00
95.75	15.18	224.02	0.00	0.00
100.0	85.76	604.43	0.00	0.00
105.0	99.44	694.65	0.00	0.00
110.0	97.62	676.86	0.00	0.00
115.0	95.68	659.08	0.00	0.00
116.0	839.72	2,149.78	0.00	0.00
120.0	74.64	472.25	0.00	0.00
125.0	91.45	574.31	0.00	0.00
126.0	412.68	1,721.33	0.00	127.43
130.0	71.08	423.80	0.00	0.00
135.0	86.81	513.74	0.00	0.00
137.0	570.23	2,227.02	0.00	0.00
140.0	50.20	262.02	0.00	0.00
Totals:	4,585.08	35,992.18	0.00	127.43

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
 Taper : 0.234203 (in/ft)

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 Topographic Category : 1
 Base Elev : 0.000 (ft)

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Load Case: 1.0D + 1.0W

60.00 mph Serviceability

19 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

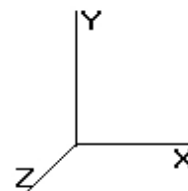
Calculated Forces

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	-35.99	-4.59	0.00	-423.93	0.00	423.93	5,563.50	2,781.75	13,660.1	6,840.21	0.00	0.00	0.068
5.00	-34.59	-4.49	0.00	-400.99	0.00	400.99	5,495.04	2,747.52	13,225.5	6,622.59	0.01	-0.02	0.067
10.00	-33.09	-4.39	0.00	-378.54	0.00	378.54	5,424.94	2,712.47	12,793.7	6,406.38	0.03	-0.03	0.065
15.00	-31.62	-4.29	0.00	-356.60	0.00	356.60	5,353.22	2,676.61	12,365.0	6,191.70	0.08	-0.05	0.064
20.00	-30.17	-4.19	0.00	-335.15	0.00	335.15	5,279.88	2,639.94	11,939.5	5,978.66	0.13	-0.06	0.062
25.00	-28.76	-4.10	0.00	-314.18	0.00	314.18	5,204.91	2,602.46	11,517.6	5,767.39	0.21	-0.08	0.060
30.00	-27.37	-4.00	0.00	-293.69	0.00	293.69	5,128.32	2,564.16	11,099.4	5,557.99	0.30	-0.09	0.058
35.00	-26.01	-3.91	0.00	-273.68	0.00	273.68	5,050.10	2,525.05	10,685.3	5,350.59	0.41	-0.11	0.056
40.00	-24.67	-3.81	0.00	-254.15	0.00	254.15	4,970.26	2,485.13	10,275.3	5,145.31	0.53	-0.13	0.054
44.75	-23.43	-3.71	0.00	-236.06	0.00	236.06	4,892.90	2,446.45	9,890.02	4,952.36	0.66	-0.14	0.052
45.00	-23.31	-3.71	0.00	-235.14	0.00	235.14	4,888.79	2,444.40	9,869.86	4,942.27	0.67	-0.14	0.052
50.00	-21.04	-3.60	0.00	-216.61	0.00	216.61	4,805.70	2,402.85	9,469.07	4,741.57	0.83	-0.16	0.050
51.00	-20.59	-3.58	0.00	-213.02	0.00	213.02	3,954.70	1,977.35	7,897.06	3,954.40	0.86	-0.16	0.059
55.00	-19.70	-3.49	0.00	-198.71	0.00	198.71	3,904.91	1,952.45	7,646.13	3,828.75	1.00	-0.17	0.057
60.00	-18.62	-3.39	0.00	-181.25	0.00	181.25	3,841.19	1,920.60	7,335.11	3,673.01	1.19	-0.19	0.054
65.00	-17.56	-3.28	0.00	-164.31	0.00	164.31	3,775.86	1,887.93	7,027.24	3,518.84	1.40	-0.21	0.051
70.00	-16.52	-3.18	0.00	-147.90	0.00	147.90	3,708.90	1,854.45	6,722.77	3,366.38	1.62	-0.22	0.048
75.00	-15.51	-3.07	0.00	-132.02	0.00	132.02	3,640.31	1,820.16	6,421.93	3,215.74	1.86	-0.24	0.045
80.00	-14.52	-2.96	0.00	-116.67	0.00	116.67	3,570.10	1,785.05	6,124.95	3,067.03	2.12	-0.25	0.042
85.00	-13.56	-2.86	0.00	-101.85	0.00	101.85	3,498.27	1,749.13	5,832.07	2,920.37	2.39	-0.27	0.039
90.00	-12.62	-2.75	0.00	-87.55	0.00	87.55	3,424.81	1,712.40	5,543.53	2,775.89	2.67	-0.28	0.035
90.75	-12.48	-2.74	0.00	-85.48	0.00	85.48	3,413.65	1,706.82	5,500.64	2,754.41	2.72	-0.28	0.035
95.00	-11.19	-2.65	0.00	-73.84	0.00	73.84	3,349.72	1,674.86	5,259.57	2,633.69	2.97	-0.29	0.031
95.75	-10.97	-2.63	0.00	-71.86	0.00	71.86	2,312.98	1,156.49	3,686.59	1,846.04	3.02	-0.29	0.044
100.00	-10.36	-2.55	0.00	-60.67	0.00	60.67	2,275.87	1,137.93	3,533.62	1,769.44	3.28	-0.30	0.039
105.00	-9.67	-2.44	0.00	-47.94	0.00	47.94	2,230.70	1,115.35	3,355.32	1,680.15	3.61	-0.32	0.033
110.00	-8.99	-2.34	0.00	-35.72	0.00	35.72	2,183.90	1,091.95	3,179.03	1,591.88	3.94	-0.33	0.027
115.00	-8.33	-2.25	0.00	-24.00	0.00	24.00	2,135.49	1,067.74	3,004.99	1,504.73	4.29	-0.33	0.020
116.00	-6.19	-1.39	0.00	-21.76	0.00	21.76	2,125.61	1,062.80	2,970.48	1,487.45	4.36	-0.34	0.018
120.00	-5.71	-1.32	0.00	-16.18	0.00	16.18	2,085.44	1,042.72	2,833.45	1,418.83	4.64	-0.34	0.014
125.00	-5.14	-1.22	0.00	-9.60	0.00	9.60	2,033.77	1,016.89	2,664.63	1,334.29	5.00	-0.35	0.010
126.00	-3.42	-0.80	0.00	-8.25	0.00	8.25	2,023.25	1,011.62	2,631.21	1,317.56	5.08	-0.35	0.008
130.00	-3.00	-0.73	0.00	-5.05	0.00	5.05	1,980.48	990.24	2,498.77	1,251.24	5.37	-0.35	0.006
135.00	-2.49	-0.64	0.00	-1.43	0.00	1.43	1,925.56	962.78	2,336.10	1,169.79	5.73	-0.35	0.003
137.00	-0.26	-0.05	0.00	-0.16	0.00	0.16	1,903.14	951.57	2,271.99	1,137.68	5.88	-0.35	0.000
140.00	0.00	-0.05	0.00	0.00	0.00	0.00	1,869.02	934.51	2,176.88	1,090.06	6.10	-0.35	0.000

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
 Taper : 0.234203 (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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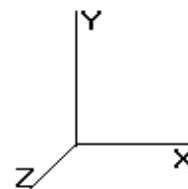
Analysis Summary

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	24.69	0.00	43.17	0.00	0.00	2286.77	0.00	0.34
0.9D + 1.6W	24.68	0.00	32.37	0.00	0.00	2276.13	0.00	0.34
1.2D + 1.0Di + 1.0Wi	5.67	0.00	65.35	0.00	0.00	511.75	0.00	0.09
1.0D + 1.0W	4.59	0.00	35.99	0.00	0.00	423.93	0.00	0.07

Pole : 311014
 Location : Norwich CT, CT
 Height : 140.0 (ft)
 Base Dia : 60.16 (in)
 Top Dia : 28.68 (in)
 Shape : 18 Sides
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 Exposure Category : B
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Base Summary

Reactions

Original Design			Analysis			Moment Design %
Moment (kip-ft)	Axial (kip)	Shear (kip)	Moment (kip-ft)	Axial (kip)	Shear (kip)	
5,050.00	42.00	43.00	2,286.77	65.35	24.69	33.54

Base Plate

Yield (ksi)	Thick (in)	Width (in)	Style	Poly Sides	Clip Len (in)	Effective Len (in)	Mu (kip-in)	Phi Mn (kip-in)	Ratio
50.0	3.000	69.000	Clipped	0	16.00	7.956	143.24	805.53	0.18

Anchor Bolts

Bolt Circle	Num Bolts	Bolt Type	Bolt Dia (in)	Yield (ksi)	Ultimate (ksi)	Arrange	Cluster Dist (in)	Start Angle (deg)	Compression			Tension		
									Force (kip)	Allow (kip)	Ratio	Force (kip)	Allow (kip)	Ratio
67.00	24	2.25" 18J	2.25	75.00	100.00	Clustered	6.00	45.0	70.98	260.00	0.28	65.54	260.00	0.26

T-MOBILE NORTHEAST LLC

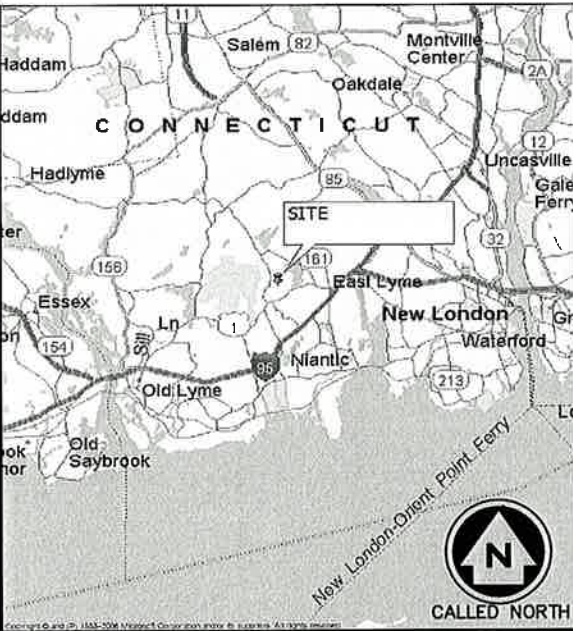
CT11463C

CT463/WAWECUS WP#2_FT

202 NORTH WAWECUS HILL ROAD
NORWICH, CT 06360

(2C CONFIGURATION)

VICINITY MAP



DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



CALL:

"CALL BEFORE YOU DIG"
WWW.CBYD.COM
CALL 811 OR 1-800-922-4455

CALL THREE WORKING DAYS PRIOR TO DIGGING

SAFETY PRECAUTIONS SHALL BE IMPLEMENTED BY CONTRACTORS AT ALL
TIMES IN ACCORDANCE WITH CURRENT OSHA STANDARDS.

COLOR CODE FOR UTILITY LOCATIONS

ELECTRIC - RED	SEWER	- GREEN
GAS/OIL - YELLOW	SURVEY	- PINK
TEL/CATV - ORANGE	PROPOSED EXCAVATION	- WHITE
WATER - BLUE	RECLAIMED WATER	- PURPLE

GENERAL NOTES

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES.
2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONSTRUCT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE T-MOBILE REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF THE CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES, THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXPENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING OF ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUM OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS AND INSPECTIONS WHICH ARE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY, OR LOCAL GOVERNMENT AUTHORITY.
11. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC., DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
12. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
13. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS, AS WELL AS THE LATEST EDITIONS OF ANY PERTINENT STATE SAFETY REGULATIONS.
14. THE CONTRACTOR SHALL NOTIFY THE T-MOBILE REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE T-MOBILE REPRESENTATIVE.
15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC., ON THE JOB.
16. THE CONTRACTOR SHALL RETURN ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITION AT THE COMPLETION OF WORK.

PROJECT SUMMARY

SITE NUMBER:	CT11463C	APPLICANT:	T-MOBILE NORTHEAST LLC
SITE NAME:	CT463/WAWECUS WP#2_FT		35 GRIFFIN ROAD SOUTH
SITE ADDRESS:	202 NORTH WAWECUS HILL ROAD		BLOOMFIELD, CT 06002
	NORWICH, CT 06360		(860)-692-7100
PROPERTY OWNER:	TBD	PROJECT MANAGER:	AMERICAN TOWER CORPORATION
			10 PRESIDENTIAL WAY
			WOBURN, MA 01801
PARCEL:	TBD	CONTACT:	TARA RUSSO
CURRENT ZONING:	TBD		717-695-2942
JURISDICTION:	TBD	ARCHITECT/ENGINEER:	INFINIGY ENGINEERING
ATC SITE NUMBER:	311014		1033 WATERVLIET SHAKER ROAD
LAT./LONG.:	N 41.52707154° / W -72.1226468°		ALBANY, NY 12205
CONSTRUCTION TYPE:	-	CONTACT:	AJ DESANTIS
USE GROUP:	-		518-690-0790

PROJECT DESCRIPTION

- | | | |
|---|---|---|
| ☒ EXISTING MONOPOLE | ☒ EXISTING CABINET(S) | ☒ OUTDOOR |
| ☐ EXISTING LATTICE TOWER | ☐ EXISTING RBS 2106 | ☐ INDOOR |
| ☐ EXISTING TRANSMISSION TOWER | ☐ EXISTING RBS 3106 | ☒ EXISTING CONCRETE PAD |
| ☐ EXISTING WATER TANK | ☒ PROPOSED RBS 3106 | ☐ EXISTING STEEL PLATFORM |
| ☐ EXISTING BUILDING | ☐ SITE SUPPORT KIT | ☒ EXISTING PPC |
| ☐ EXISTING FLAGPOLE | ☐ SITE SUPPORT CABINET | ☐ PANELBOARD |
| ☐ EXISTING FORT WORTH | ☒ GPS | |

T-MOBILE NORTHEAST LLC PROPOSES THE MODIFICATION OF AN UNMANNED WIRELESS BROADBAND FACILITY. REPLACEMENT OF EXISTING PANEL ANTENNAS & TMA'S WITH PROPOSED AIR21 PANEL ANTENNAS AND ASSOCIATED CABLING. REUSE EXISTING GPS ANTENNA AND, ADD PROPOSED RBS 6102 EQUIPMENT CABINET WITHIN EXISTING T-MOBILE LEASE AREA.

SHEET INDEX

SHEET	DESCRIPTION	REVISION
T-1	TITLE SHEET	0
C-1	SITE PLAN	0
C-2	COMPOUND PLAN & ELEVATION	0
C-3	ANTENNA DETAIL & RF SCHEDULE	0
S-1	EQUIPMENT SPECIFICATIONS	0
E-1	GROUNDING AND POWER DIAGRAMS	0
E-2	COAX/FIBER PLUMBING DIAGRAM	0
N-1	GENERAL AND ELECTRICAL NOTES	0

T-Mobile

T-MOBILE NORTHEAST LLC
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002

INFINIGY
Design: Build: Deliver:
1033 WATERVLIET SHAKER ROAD
ALBANY, NY 12205
OFFICE: (518) 680-0790
FAX: (518) 680-0793

SUBMITTALS

DATE	DESCRIPTION	REVISION
4/4/14	REVIEW	A
4/11/14	FOR PERMIT	0

DEPT.	DATE	APP'D	REVISIONS
R/E			
RF MAN.			
ZONING			
OPS			
CONSTR.			
SITE AC.			

PROJECT NO: 317-1182
DRAWN BY: JLM
CHECKED BY: AJD



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NOTE: IF DRAWINGS ARE 22"x34", USE GRAPHICAL SCALE AND/OR 1/2 TIMES OF THE NOTED SCALE.

SITE NAME

CT11463C

CT463/WAWECUS WP#2_FT
202 NORTH WAWECUS HILL ROAD
NORWICH, CT 06360

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

SHEET 1 OF 8 SHEETS



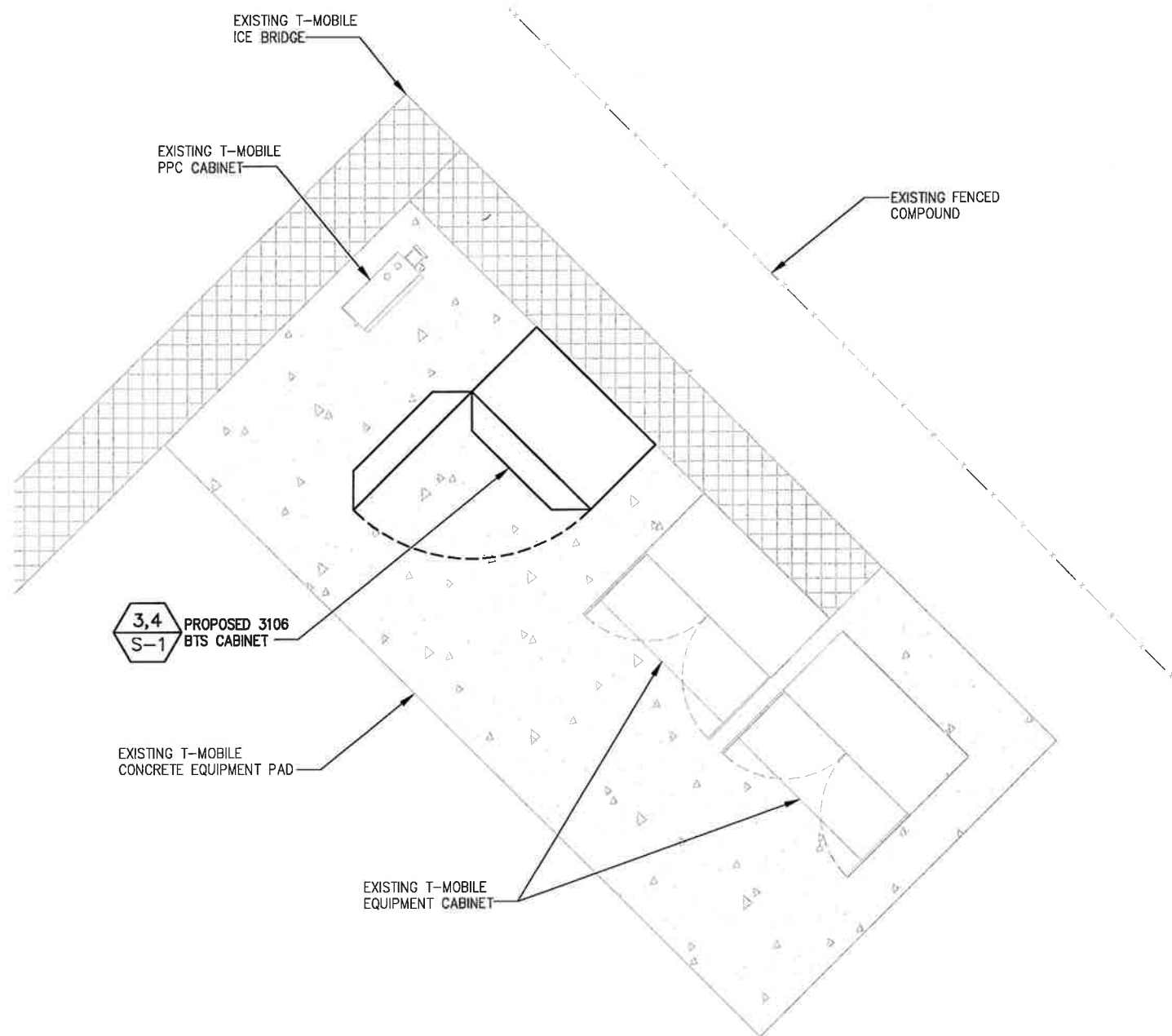
1 SITE PLAN
-- SCALE: AS NOTED

GRAPHIC SCALE

20' 10' 0 10' 20'

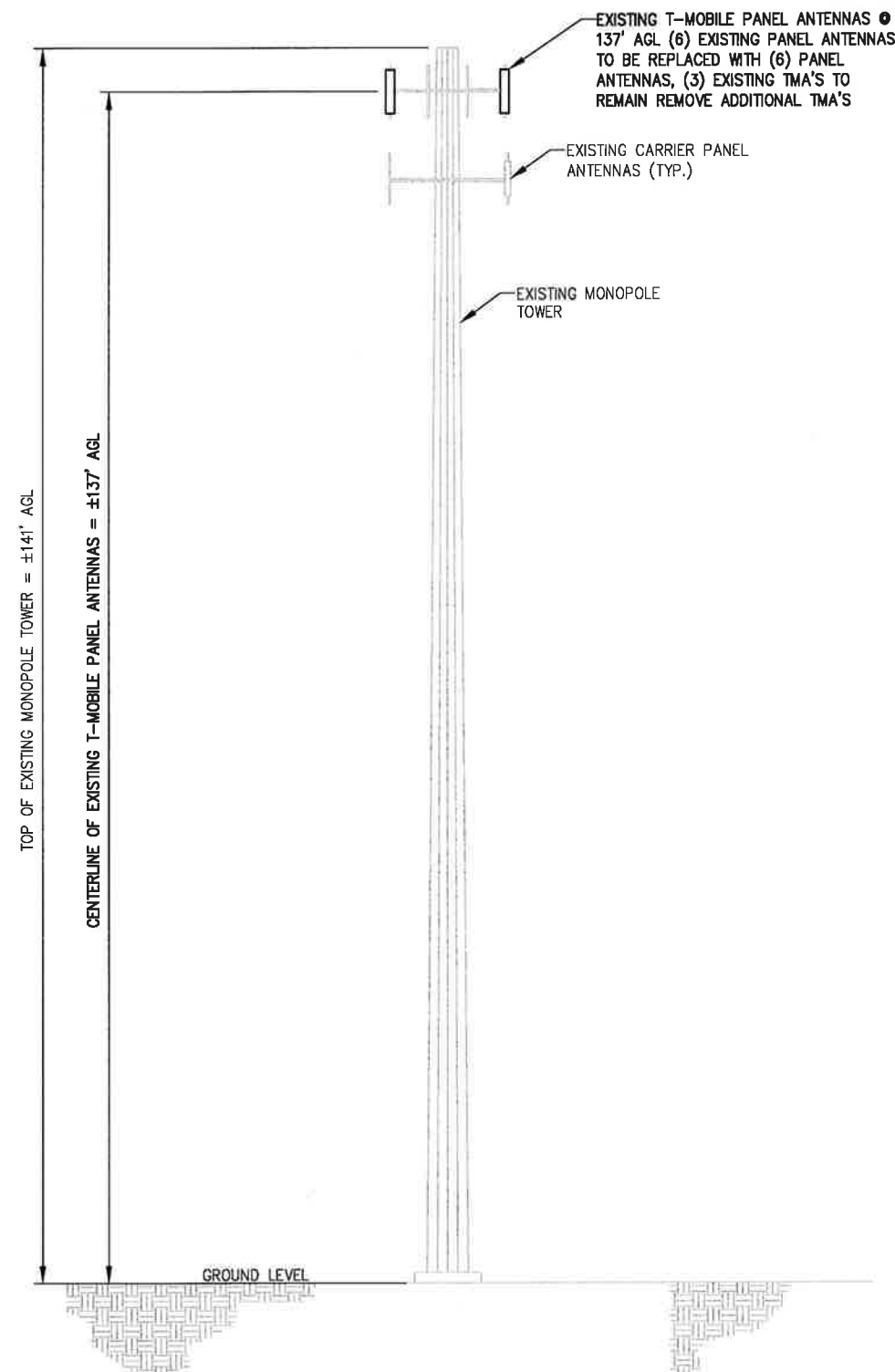
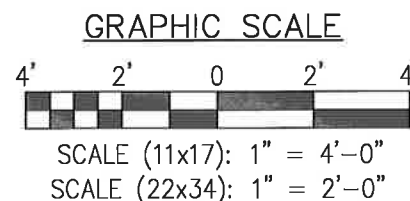
SCALE (11x17): 1" = 20'-0"

SCALE (22x34): 1" = 10'-0"



CALLLED NORTH

1 COMPOUND PLAN
SCALE: AS NOTED



2 TOWER ELEVATION
NOT TO SCALE

NOTE:
INFINIGY ENGINEERING HAS NOT EVALUATED THE TOWER OR LOADING FOR THIS SITE, AND ASSUMES NO RESPONSIBILITY FOR ITS STRUCTURAL INTEGRITY REGARDING ITS EXISTING OR PROPOSED LOADING. FINAL INSTALLATION TO COMPLY WITH RESULTS OF PASSING STRUCTURAL ANALYSIS.

T-Mobile
T-MOBILE NORTHEAST LLC
33 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002

Design:
Build:
Deliver:
INFINIGY
1033 WATERVLET SHAKER ROAD
ALBANY, NY 12205
OFFICE: (518) 682-0730
FAX: (518) 682-0733

SUBMITTALS		
DATE	DESCRIPTION	REVISION
4/4/14	REVIEW	A
4/11/14	FOR PERMIT	D

DEPT.	DATE	APP'D	REVISIONS
RFE			
RF MAN.			
ZONING			
OPS			
CONSTR.			
SITE AC			

PROJECT NO: 317-1182
DRAWN BY: JLM
CHECKED BY: AJD



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SITE NAME
CT11463C
CT463/WAWECUS WP#2_FT
202 NORTH WAWECUS HILL ROAD
NORWICH, CT 06360

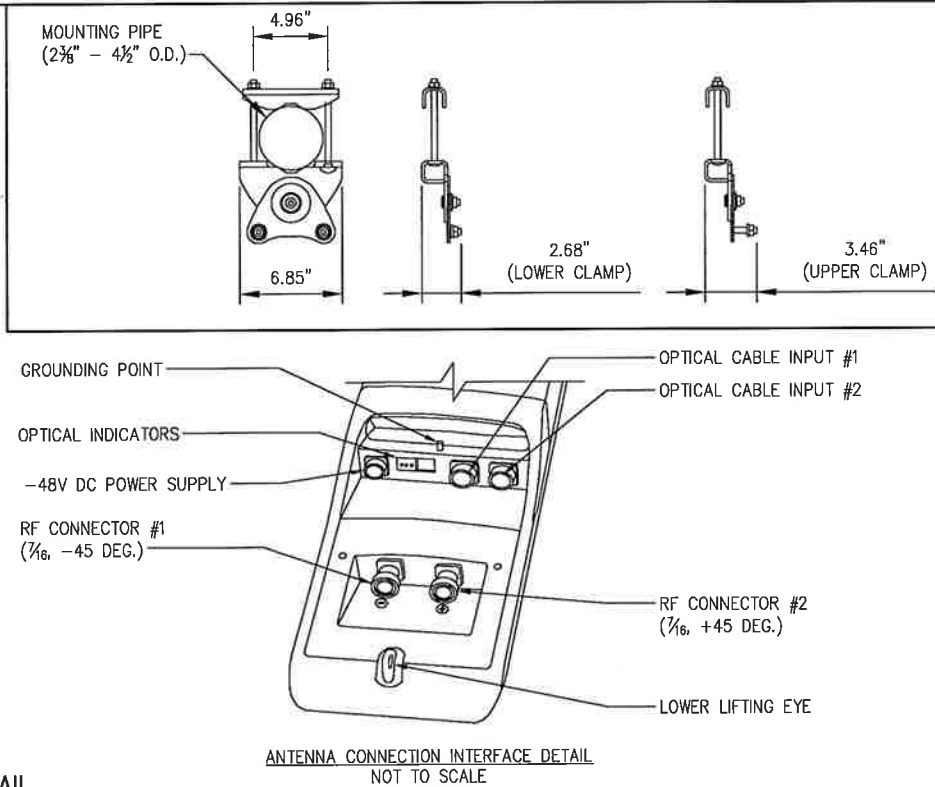
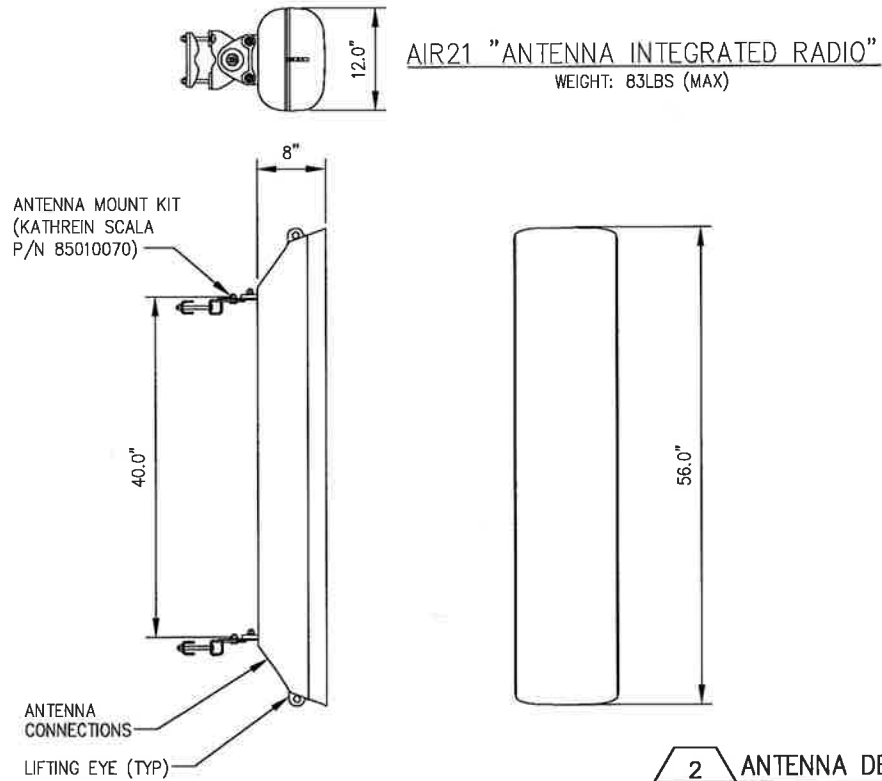
SHEET TITLE
COMPOUND PLAN & ELEVATION

SHEET NUMBER
C-2
SHEET 3 OF 8 SHEETS

RF SYSTEM SCHEDULE (2C CONFIGURATION)																					
SECTOR	TECHNOLOGY	ANTENNA PORT	BAND	ANTENNA MODEL #	VENDOR	AZIMUTH	M-TILT	E-TILT	ANTENNA CENTERLINE	TMA MODEL #	VENDOR	CABLE LENGTH	CABLE DIAMETER	CABLE TYPE	CABLE MODEL #	VENDOR	CABLE TAGGING	COLOR CODING	JUMPER TYPE	JUMPER TAGGING	COLOR CODING
A	UMTS AWS	RF #1	B4P	AIR21	ERICSSON	60°	0°	2°	137'–0"	KRY 112 144/1	N/A	EXISTING	1–5/8"	COAX	EXISTING	N/A	UMTS AWS A1	B	COAX	UMTS AWS A1	B
		RF #2										EXISTING	1–5/8"	COAX	EXISTING	N/A	UMTS AWS A2	B	COAX	UMTS AWS A2	B
	LMU	LMU #1	—							EXISTING	1–5/8"	COAX	EXISTING	N/A	LMU A1	—	COAX	LMU A1	—		
		LMU #2								EXISTING	1–5/8"	COAX	EXISTING	N/A	LMU A2	—	COAX	LMU A2	—		
	GSM	OPTICAL #1	B2A							—	—	196'±	—	HYBRID	MASTERLINE EXTREME HYBRID (9x18)	ERICSSON	FIBER 1	O	FIBER	GSM 1900 A1	R
	UMTS	OPTICAL #2																	FIBER	UMTS 1900 A2	G
	LTE AWS	OPTICAL #1	B4A	AIR21	ERICSSON	60°	0°	2°	137'–0"	—	—					FIBER	LTE FIBER 1	Y			
B	UMTS AWS	RF #1	B4P	AIR21	ERICSSON	180°	0°	2°	137'–0"	KRY 112 144/1	N/A	EXISTING	1–5/8"	COAX	EXISTING	N/A	UMTS AWS B1	BB	COAX	UMTS AWS B1	BB
		RF #2										EXISTING	1–5/8"	COAX	EXISTING	N/A	UMTS AWS B2	BB	COAX	UMTS AWS B2	BB
	LMU	LMU #1	—							EXISTING	1–5/8"	COAX	EXISTING	N/A	LMU B1	—	COAX	LMU B1	—		
		LMU #2								EXISTING	1–5/8"	COAX	EXISTING	N/A	LMU B2	—	COAX	LMU B2	—		
	GSM	OPTICAL #1	B2A							—	—	(ANTENNA CONNECTED VIA SINGLE SHARED MLE HYBRID GEN2 CABLE. SEE SECTOR "A")							HYBRID	GSM 1900 B1	RR
	UMTS	OPTICAL #2										HYBRID	UMTS 1900 B2	GG							
	LTE AWS	OPTICAL #1	B4A	AIR21	ERICSSON	180°	0°	2°	137'–0"	—	—					HYBRID	LTE FIBER 2	YY			
C	UMTS AWS	RF #1	B4P	AIR21	ERICSSON	300°	0°	2°	137'–0"	KRY 112 144/1	N/A	EXISTING	1–5/8"	COAX	EXISTING	N/A	UMTS AWS C1	BBB	COAX	UMTS AWS C1	BBB
		RF #2										EXISTING	1–5/8"	COAX	EXISTING	N/A	UMTS AWS C2	BBB	COAX	UMTS AWS C2	BBB
	LMU	LMU #1	—							EXISTING	1–5/8"	COAX	EXISTING	N/A	LMU C1	—	COAX	LMU C1	—		
		LMU #2								EXISTING	1–5/8"	COAX	EXISTING	N/A	LMU C2	—	COAX	LMU C2	—		
	GSM	OPTICAL #1	B2A							—	—	(ANTENNA CONNECTED VIA SINGLE SHARED MLE HYBRID GEN2 CABLE. SEE SECTOR "A")							HYBRID	GSM 1900 C1	RRR
	UMTS	OPTICAL #2										HYBRID	UMTS 1900 C2	GGG							
	LTE AWS	OPTICAL #1	B4A	AIR21	ERICSSON	300°	0°	2°	137'–0"	—	—					HYBRID	LTE FIBER 3	YYY			

1 RF SCHEDULE
--- NOT TO SCALE

KEY	
EXISTING	R - RED - GSM
PROPOSED	G - GREEN - UMTS 1900
FIBER CONNECTION	B - BLUE - UMTS AWS
	Y - YELLOW - LTE
	O - ORANGE - FIBER CABLE



METALLIC TAG NOTES:

- TWO METALLIC TAGS SHALL BE ATTACHED AT EACH END OF EVERY CABLE LONGER THAN (3) THREE FEET.
- CABLES LESS THAN (3) THREE FEET WILL HAVE TWO METALLIC TAGS ATTACHED AT THE CENTER OF THE CABLE.
- TAGS WILL BE FASTENED WITH STAINLESS STEEL ZIP TIES APPROPRIATE FOR CABLE DIAMETER.
- STANDARDIZED METALLIC TAG KITS WILL BE ASSEMBLED WITH TAGS ALREADY ENGRAVED TO ACCOMMODATE ALL CONFIGURATIONS.

3 METALLIC TAG DETAIL
--- NOT TO SCALE



SUBMITTALS		
DATE	DESCRIPTION	REVISION
4/2/14	REVIEW	A
4/11/14	FOR PERMIT	0

DEPT.	DATE	APP'D	REVISIONS
RFE			
RF MAN.			
ZONING			
OPS			
CONSTR.			
SITE AC.			

PROJECT NO: 317-1182
DRAWN BY: JLM
CHECKED BY: AJD



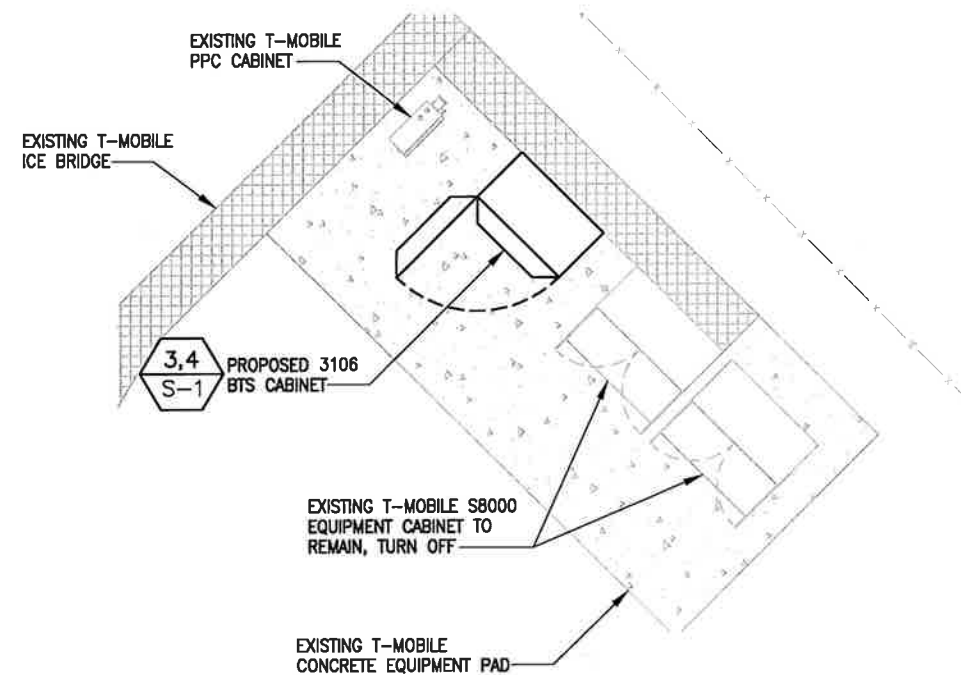
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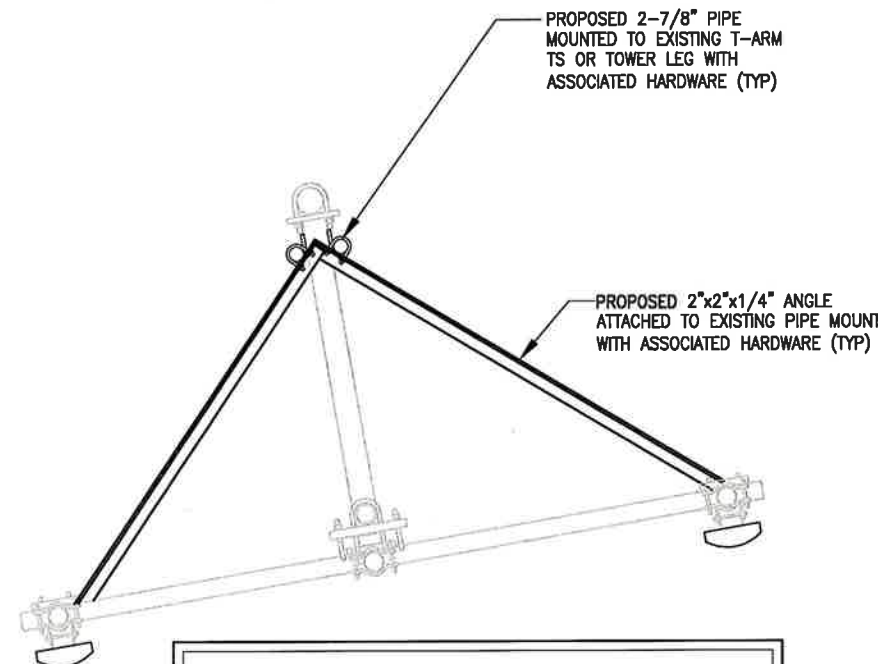
SITE NAME
CT11463C
CT463WAWECUS WP#2_FT
202 NORTH WAWECUS HILL ROAD
NORWICH, CT 06360

SHEET TITLE
ANTENNA DETAIL
& RF SCHEDULE

SHEET NUMBER
C-3
SHEET 4 OF 8 SHEETS



1 EQUIPMENT PAD LAYOUT PLAN
NOT TO SCALE



*USE WHEN EXISTING ANTENNA PIPE MOUNT HAS ONLY ONE POINT OF ATTACHMENT

2 ANTENNA REINFORCEMENT
NOT TO SCALE

- STRUCTURAL NOTES:
- SPECIFICATIONS / CODES:
 - CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE ACI CODE.
 - STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH AISC STEEL CONSTRUCTION MANUAL, 9TH EDITION.
 - WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.1-92 "STRUCTURAL WELDING" CODE-STEEL.
 - REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI), "MANUAL OF STANDARD PRACTICE."
 - MATERIALS:
 - CONCRETE: $f_c' = 3000$ psi. (MIN. U.N.O.)
 - REINFORCING STEEL: ASTM A615, GRADE 60.
 - WIRE MESH: ASTM A185.
 - STRUCTURAL STEEL: ASTM A36.
 - ELECTRODES FOR WELDING: E 70xx.
 - GALVANIZING: ASTM A153 (BOLTS) OR ASTM A123 (SHAPES, PLATES).
 - EXPANSION BOLTS: HILTI KWIK BOLT II, STAINLESS STEEL, 3/4"x43/4" EMBEDMENT OR AN APPROVED EQUAL.

T-Mobile

T-MOBILE NORTHEAST LLC
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002

Design.
Build.
Deliver.
INFINIGY8
1033 WATERVLET SPANER ROAD
OFFICE: (518) 680-0790
FAX: (518) 680-0793

SUBMITTALS

DATE	DESCRIPTION	REVISION
4/4/14	REVIEW	A
4/11/14	FOR PERMIT	0

DEPT.	DATE	APP'D	REVISIONS
RFE			
RF MAN.			
ZONING			
OPS			
CONSTR.			
SITE AC.			

PROJECT NO: 317-1182
DRAWN BY: JLM
CHECKED BY: AJD



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SITE NAME

CT11463C

CT463WAWECUS WP#2_FT
202 NORTH WAWECUS HILL ROAD
NORWICH, CT 06360

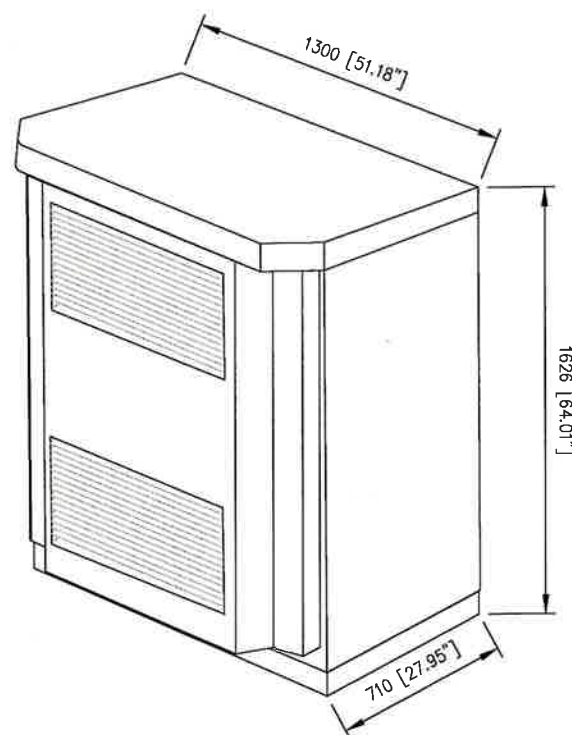
SHEET TITLE

EQUIPMENT SPECIFICATIONS

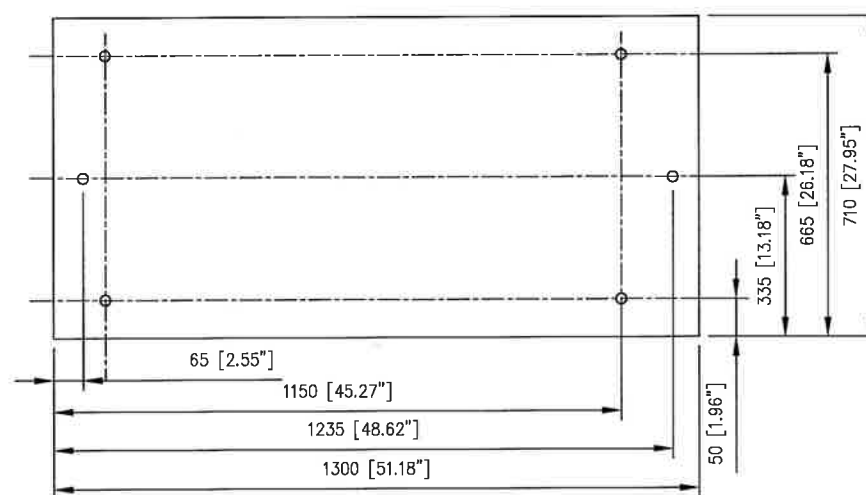
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S-1

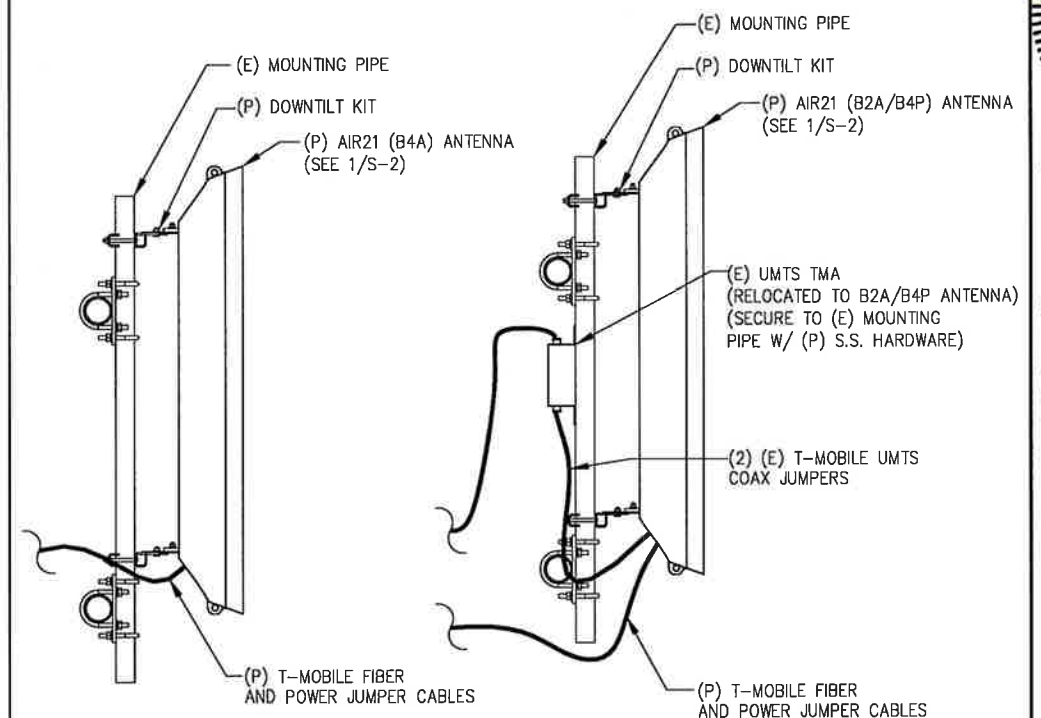
SHEET 5 OF 8 SHEETS



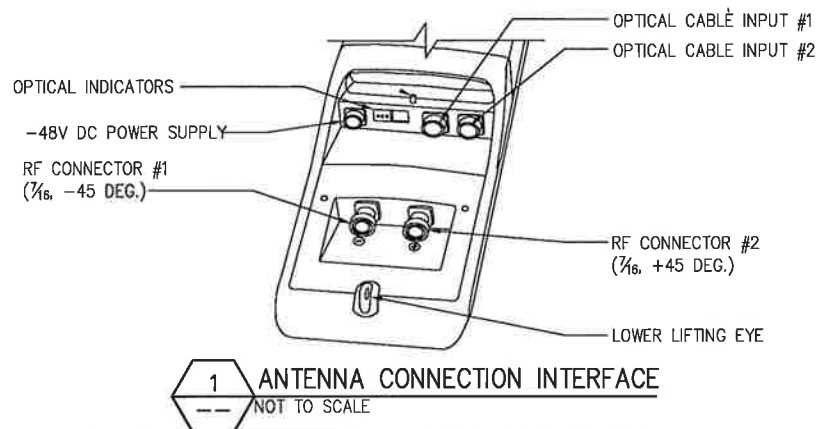
4 ERICSSON RBS 3106
NOT TO SCALE



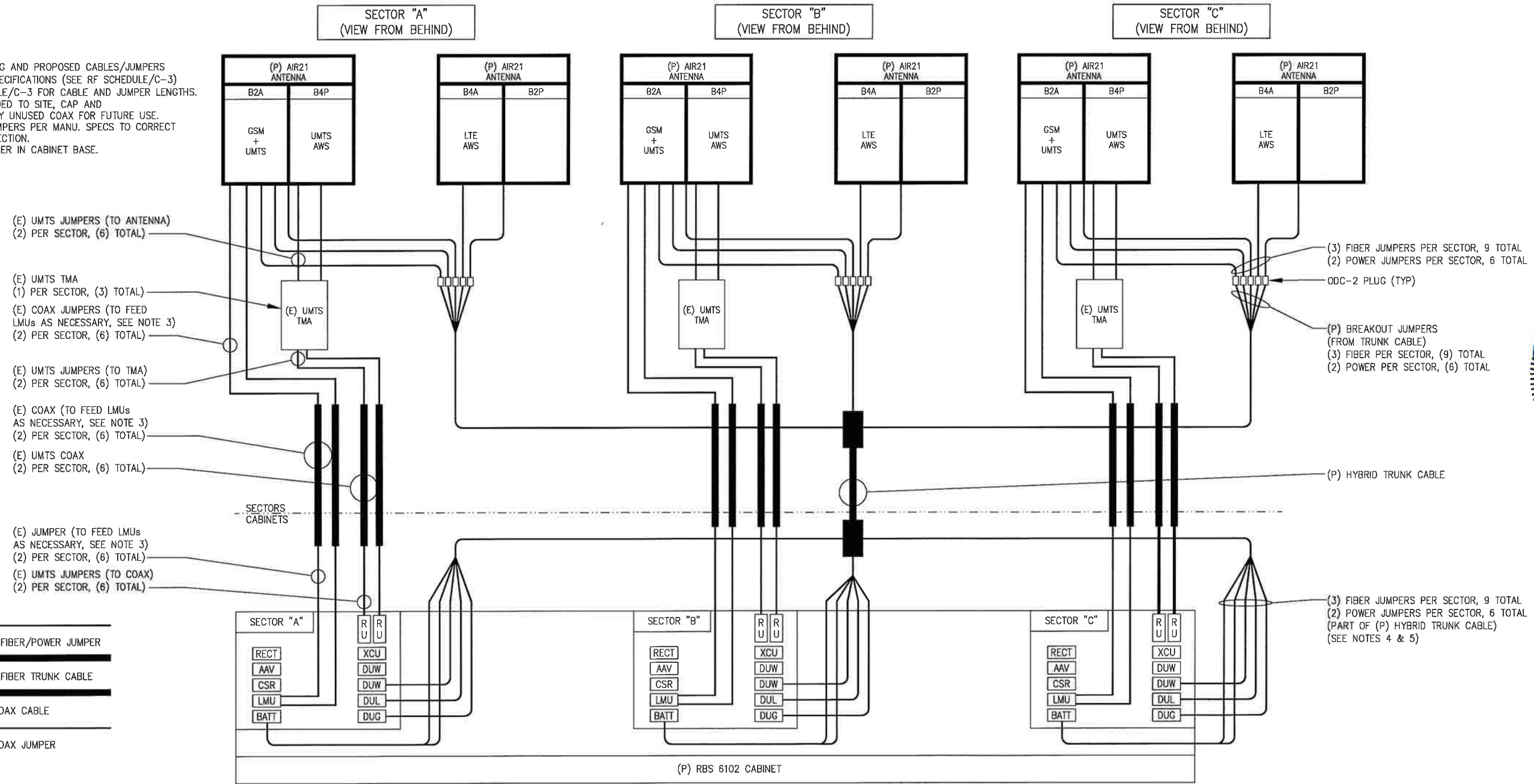
5 ERICSSON RBS 3106 BOLT HOLE DIAGRAM
NOT TO SCALE



5 ANTENNA MOUNTING DETAIL
NOT TO SCALE



- NOTES:
1. TAG ALL EXISTING AND PROPOSED CABLES/JUMPERS PER T-MOBILE SPECIFICATIONS (SEE RF SCHEDULE/C-3)
 2. SEE RF SCHEDULE/C-3 FOR CABLE AND JUMPER LENGTHS.
 3. IF NEW GPS ADDED TO SITE, CAP AND WEATHERPROOF ANY UNUSED COAX FOR FUTURE USE.
 4. TRIM POWER JUMPERS PER MANU. SPECS TO CORRECT LENGTH FOR CONNECTION.
 5. COIL EXCESS FIBER IN CABINET BASE.



2 2C CONFIGURATION COAX/FIBER PLUMBING DIAGRAM
NOT TO SCALE

SUBMITTALS		
DATE	DESCRIPTION	REVISION
4/4/14	REVIEW	A
4/11/14	FOR PERMIT	C

DEPT.	DATE	APP'D	REVISIONS
RFE			
RF MAN.			
ZONING			
OPS			
CONSTR.			
SITE AC.			
PROJECT NO:			317-1182
DRAWN BY:			JLM
CHECKED BY:			AJD



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CT11463C
CT463/WAWECUS WP#2_FT
202 NORTH WAWECUS HILL ROAD
NORWICH, CT 06360

SHEET TITLE
**COAX/FIBER
PLUMBING
DIAGRAM**

SHEET NUMBER
E-2
SHEET 7 OF 8 SHEETS

SHEET 8 OF 8 SHEETS