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Phone: (845) 499-4712
Jennifer Notaro
Real Estate Consultant

9/5/14

Hand Delivered

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

CC to Property Owner:
THE ORCHARDS AT EAST LYME INC.
2 ARBOR CROSSING,
EAST LYME, CT 06333

RE: T-Mobile Northeast LLC notice of intent to modify an existing telecommunications facility located at 2 Scott Road, East Lyme, CT 06333. Known to T-Mobile Northeast LLC as site CTNL010A

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 (845) 499-4712 or email jnotaro@transcendwireless.com with questions concerning this matter.
Thank you for your consideration.

Sincerely,

Jennifer Notaro
(845) 499-4712



EBI Consulting

environmental | engineering | due diligence

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

T-Mobile Existing Facility

Site ID: CTNL010A

Spectrasite East Lyme
2 Scott Road
East Lyme, CT 06333

May 14, 2014

EBI Project Number: 62142902

May 14, 2014

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

Re: Emissions Values for Site: CTNL010A - Spectrasite East Lyme

EBI Consulting was directed to analyze the proposed T-Mobile facility located at 2 Scott Road East Lyme, 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 2 Scott Road, East Lyme, 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 **142 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	CTM1010A - Spectracore East Lyme
Site Address	2 Scott Road, East Lyme, CT 06333
Site Type	Metropole

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 (dBi)	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	142	136	None	0	0	48.376044	0.939311	0.009393%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-	0	0	0	-3.95	142	136	None	0	0	0	0	0.000000%
2a	Ericsson	AIR21 B2A/B4P	Active	PCS -1950 MHz	GSM/LUMTS	30	2	60	-3.95	142	136	1.5/8"	0	0	24.183022	0.469856	0.04697%
2b	Ericsson	AIR21 B2A/B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	142	136	1.5/8"	0	0	24.183022	0.469856	0.04697%
Sector total Power Density Value:										0.188%							

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 (dBi)	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	142	136	None	0	0	48.376044	0.939311	0.009393%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-	0	0	0	-3.95	142	136	None	0	0	0	0	0.000000%
2a	Ericsson	AIR21 B2A/B4P	Active	PCS -1950 MHz	GSM/LUMTS	30	2	60	-3.95	142	136	1.5/8"	0	0	24.183022	0.469856	0.04697%
2b	Ericsson	AIR21 B2A/B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	142	136	1.5/8"	0	0	24.183022	0.469856	0.04697%
Sector total Power Density Value:										0.188%							

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 (dBi)	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	142	136	None	0	0	48.376044	0.939311	0.009393%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-	0	0	0	-3.95	142	136	None	0	0	0	0	0.000000%
2a	Ericsson	AIR21 B2A/B4P	Active	PCS -1950 MHz	GSM/LUMTS	30	2	60	-3.95	142	136	1.5/8"	0	0	24.183022	0.469856	0.04697%
2b	Ericsson	AIR21 B2A/B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	142	136	1.5/8"	0	0	24.183022	0.469856	0.04697%
Sector total Power Density Value:										0.188%							

Site Composite MPE %	
Carrier	MPE %
I-Mobile	0.564%
AT&T	18.620%
Metro PCS	2.790%
Total Site MPE %	21.974%

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 **0.564% (0.188% 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 **21.974%** 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



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 150 ft Monopole
ATC Site Name : East Lyme, CT
ATC Site Number : 302490
Engineering Number : 58044521
Proposed Carrier : T-Mobile
Carrier Site Name : East Lyme
Carrier Site Number : CTNL010A
Site Location : 2 Scott Rd
East Lyme, CT 06333-1129
41.367028,-72.242400
County : New London
Date : May 6, 2014
Max Usage : 89%
Result : Pass

Anil Ayalasomayajula
Structural Engineer III



ATC
Aug 26 2014 1:04 PM



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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 150 ft monopole to reflect the change in loading by T-Mobile.

Supporting Documents

Tower Drawings	AT&T Technologies Specification AT-8935, dated April 13, 1984
Foundation Drawing	Girard & Co. Engineers Drawing #10144, dated August 27, 1986
Geotechnical Report	AMEC Project #3-4917-0001-0015, dated June 14, 2006
Modifications	ATC Engineering #26846635, dated February 22, 2008 ATC Engineering #43492433, dated June 25, 2009

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:	115 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
Spectral Response:	$S_s = 0.27, S_1 = 0.058$
Site Class:	D - Stiff Soil

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					
150.0	152.0	6	Powerwave LGP13519	Platform w/ Handrails	(13) 1 1/4" Coax (2) 0.78" 8 AWG 6 (1) 1 5/8" Coax (1) 2" Conduit (1) 0.39" Fiber Trunk	AT&T Mobility
		6	CCI DTMABP7819VG12A			
		1	Raycap DC6-48-60-18-8F			
		6	Ericsson RRUS-11 800MHz			
		4	Powerwave 7770.00			
		2	KMW AM-X-CD-17-65-00T-RET			
	4	Powerwave P65-17-XLH-RR				
	154.0	1	8' Omni		(1) 7/8" Coax	USA Mobility
153.0	1	3' Yagi	(1) 1 5/8" Coax			
142.0	-	-	-	(12) 1 5/8" Coax	T-Mobile	
131.0	131.0	6	Kathrein RCU	T-Arms	(12) 1 5/8" Coax (6) 3/8" Coax	Metro PCS
		6	Kathrein 800 10504			
40.0	40.0	1	Channel Master Type 120	Pipe	(1) 0.28" RG-6	USA Mobility

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
142.0	142.0	6	Remec S20057A1	-	(1) 3/16" (0.19") Coax	T-Mobile

Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
142.0	142.0	3	Ericsson KRY 112 144/1	Sector Frame	(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	68%	Pass
Shaft	89%	Pass
Base Plate	48%	Pass
Flanges	37%	Pass
Reinforcement	80%	Pass

Foundations

Reaction Component	Analysis Reactions
Moment (Kips-Ft)	3,579.9
Axial (Kips)	64.3
Shear (Kips)	36.5

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

Deflection and Sway*

Antenna Elevation (ft)	Deflection (ft)	Sway (Rotation) (°)
142.0	1.416	1.200

*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:

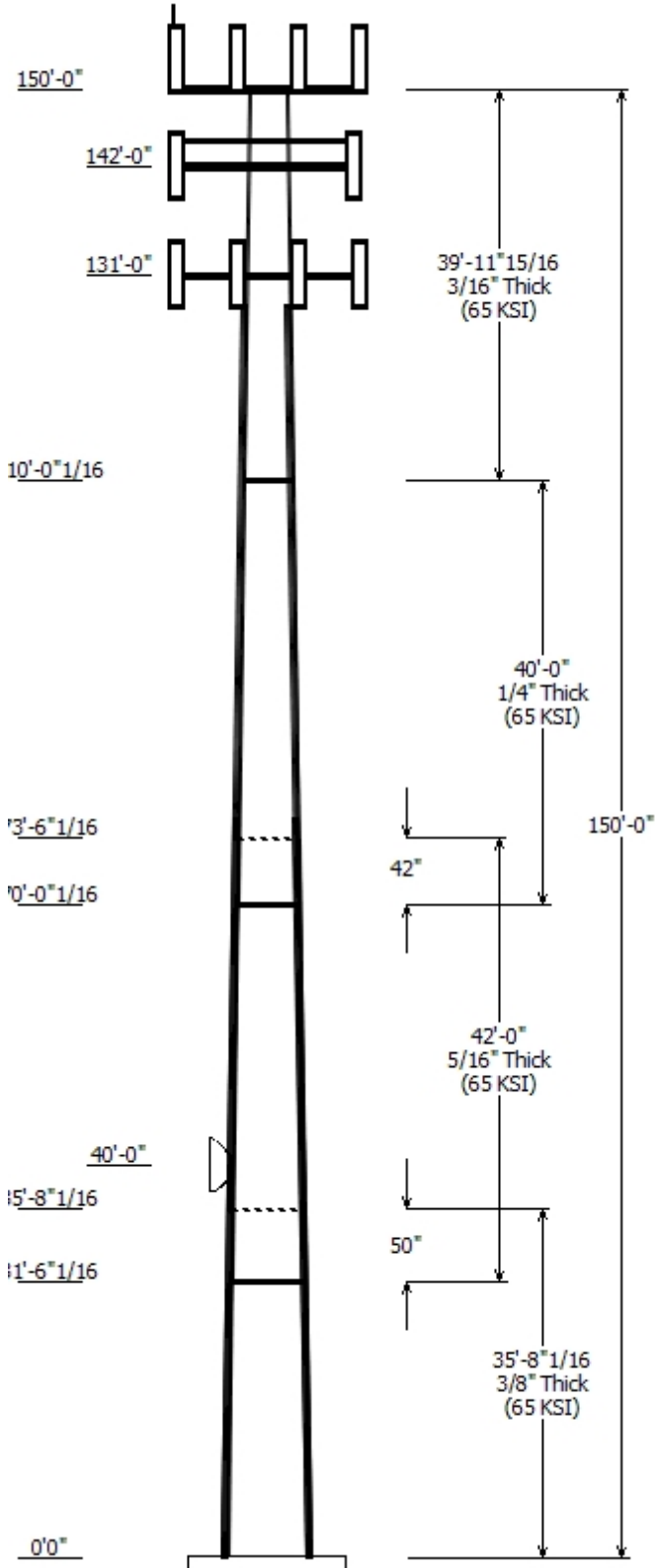
- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements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

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Job Information	
Pole :	302490
Code :	ANSI/TIA-222 Rev G
Description :	150 ft. ITT Meyer Monopole
Client :	T- Mobile
Struct Class :	II
Location :	East Lyme, CT
Shape :	12 Sides
Exposure :	B
Height :	150.00 (ft)
Topo :	1
Base Elev (ft):	0.00
Taper:	0.15670(in/ft)

Sections Properties								
Shaft Section	Length (ft)	Diameter (in)		Thick (in)	Joint Type	Overlap		Steel Grade (ksi)
		Top	Bottom			Length (in)	Taper (in/ft)	
1	35.670	31.79	37.38	0.375		0.000	0.156700	65
2	42.000	26.48	33.06	0.313	Slip Joint	50.000	0.156700	65
3	40.000	21.26	27.53	0.250	Slip Joint	42.000	0.156700	65
4	39.997	15.00	21.26	0.188	Butt Joint	0.000	0.156700	65

Discrete Appurtenance				
Attach Elev (ft)	Force Elev (ft)	Qty	Description	
150.000	152.000	6	CCI DTMABP7819VG12A	
150.000	152.000	6	Ericsson RRUS-11 800 MHz	
150.000	152.000	1	Raycap DC6-48-60-18-8F	
150.000	152.000	4	Powerwave 7770.00	
150.000	152.000	2	KMW AM-X-CD-17-65-00T-RET	
150.000	152.000	4	Powerwave P65-17-XLH-RR	
150.000	152.000	6	Powerwave LGP13519	
150.000	150.000	1	Flat Platform w/ Handrails	
150.000	153.000	1	3' Yagi	
150.000	154.000	1	8' Omni	
142.000	142.000	3	Ericsson AIR 21, 1.3M, B4A B2P	
142.000	142.000	3	Flat Light Sector Frame	
142.000	142.000	3	Ericsson AIR 21, 1.3M, B2A B4P	
142.000	142.000	3	Ericsson KRY 112 144/1	
131.000	131.000	3	Round T-Arm	
131.000	131.000	6	Kathrein RCU	
131.000	131.000	6	Kathrein 800 10504	
40.000	40.000	1	Channel Master Type 120	

Linear Appurtenance			
Elev (ft)		Description	Exposed To Wind
From	To		
10.000	40.000	0.28" RG-6	Yes
10.000	142.0	1 5/8" Coax	No
10.000	150.0	1 1/4" Coax	No
10.000	150.0	1 5/8" Coax	No
0.000	150.0	0.39" Fiber Trunk	No
0.000	150.0	0.78" 8 AWG 6	No
0.000	150.0	1 5/8" Coax	No
0.000	150.0	2" Conduit	No
0.000	150.0	7/8" Coax	No
0.000	80.000	#20 Dywidag bars	Yes
0.000	131.0	1 5/8" Coax	Yes
0.000	131.0	3/8" Coax	Yes
0.000	132.0	#20 Dywidag bars	Yes
0.000	142.0	1 5/8" Hybriflex	No

Load Cases	

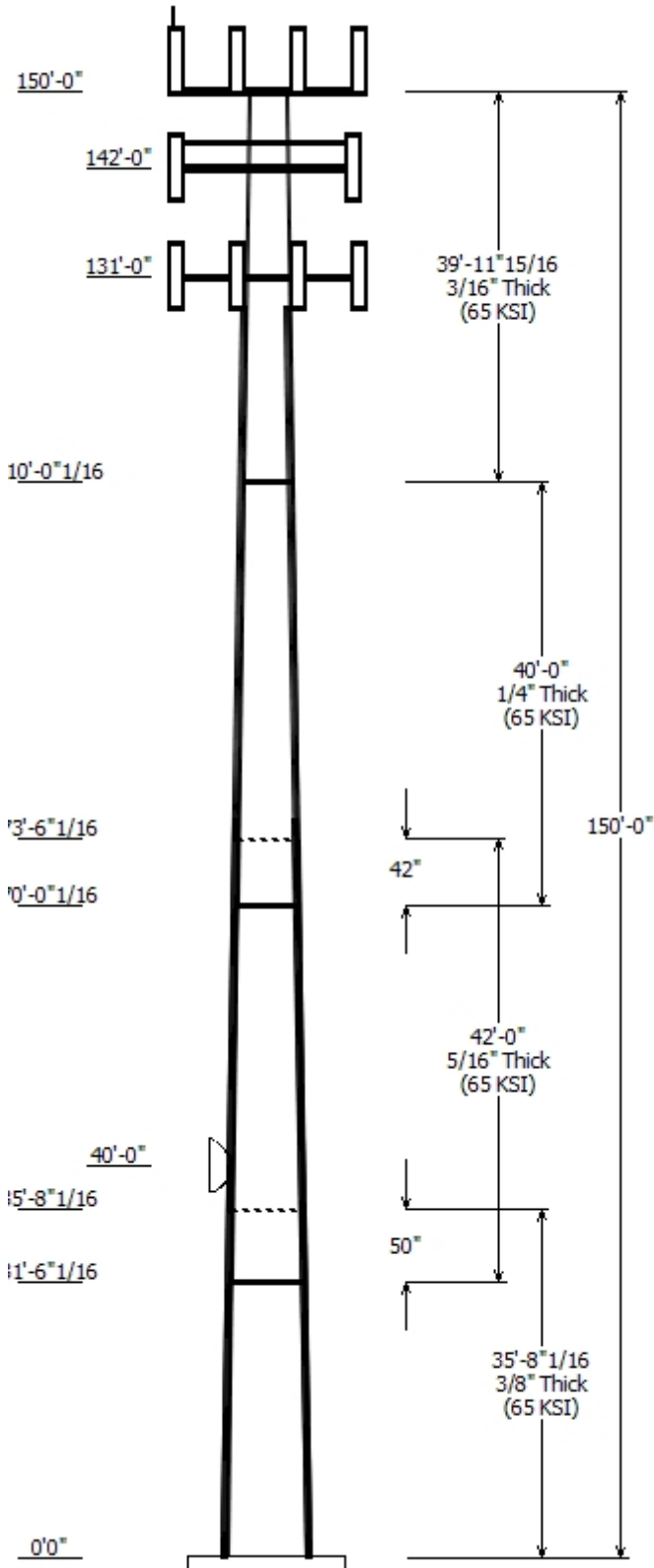
1.2D + 1.6W	115.00 mph with No Ice
0.9D + 1.6W	115.00 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice
1.0D + 1.0W	60.00 mph Serviceability

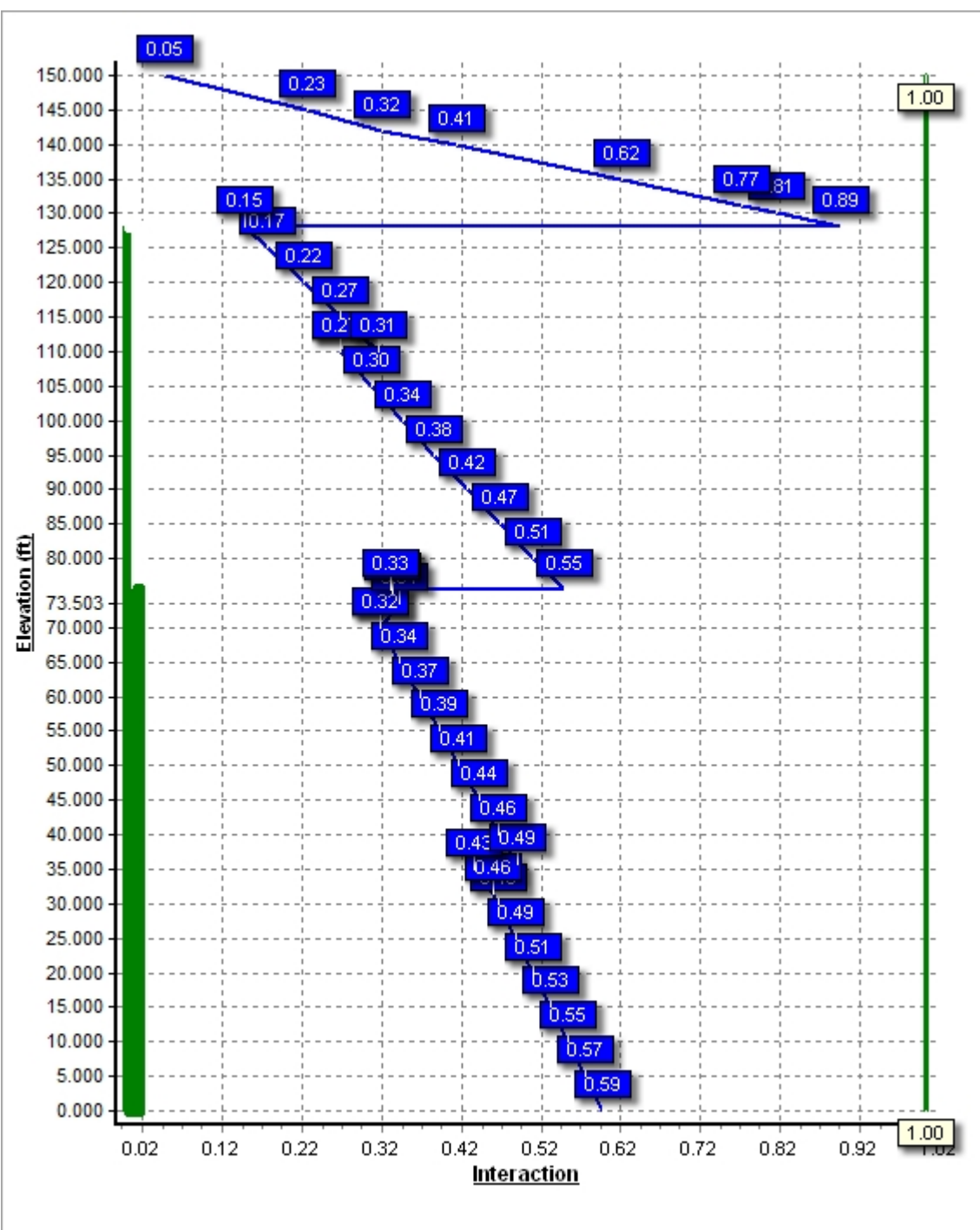
Reactions

Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	3579.93	36.51	42.68
0.9D + 1.6W	3552.59	36.50	35.42
1.2D + 1.0Di + 1.0Wi	618.77	6.04	64.30
1.0D + 1.0W	640.11	6.71	37.92

Dish Deflections

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	40.00	1.439	0.335

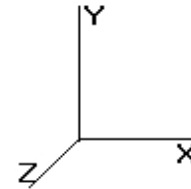




Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (in/ft)

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

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Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Slip		Weight (lb)	Bottom						Top							
				Joint Type	Joint Len (in)		Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Taper (in/ft)	
1-12	35.670	0.3750	65		0.00	5,014	37.38	0.00	44.68	7810.1	24.57	99.68	31.79	35.67	37.93	4778.7	20.57	84.77	0.156700	
2-12	42.000	0.3125	65	Slip	50.00	4,237	33.06	31.50	32.96	4514.0	26.21	105.82	26.48	73.50	26.34	2303.2	20.57	84.76	0.156700	
3-12	40.000	0.2500	65	Slip	42.00	2,646	27.53	70.00	21.96	2087.3	27.37	110.14	21.26	110.00	16.92	953.9	20.65	85.07	0.156700	
4-12	39.997	0.1875	65	Butt	0.00	1,475	21.26	110.00	12.73	721.9	28.25	113.43	15.00	150.00	8.94	250.5	19.29	80.00	0.156700	
Shaft Weight						13,372														

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		
150.00	3' Yagi	1	10.00	2.980	1.00	100.02	9.258	1.00	0.000	3.000
150.00	8' Omni	1	25.00	2.400	1.00	132.82	4.417	1.00	0.000	4.000
150.00	CCI DTMABP7819VG12A	6	19.20	0.970	0.50	53.00	1.393	0.50	0.000	2.000
150.00	Ericsson RRUS-11 800 MHz	6	54.00	2.520	0.67	143.33	3.178	0.67	0.000	2.000
150.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,424.08	63.415	1.00	0.000	0.000
150.00	KMW AM-X-CD-17-65-00T-	2	59.50	11.310	0.80	307.11	12.969	0.80	0.000	2.000
150.00	Powerwave 7770.00	4	35.00	5.510	0.77	170.17	6.565	0.77	0.000	2.000
150.00	Powerwave LGP13519	6	5.30	0.340	0.50	23.40	0.372	0.50	2.700	2.000
150.00	Powerwave P65-17-XLH-RR	4	59.00	11.470	0.80	309.00	13.122	0.80	0.000	2.000
150.00	Raycap DC6-48-60-18-8F	1	20.00	1.110	1.00	100.52	2.522	1.00	0.000	2.000
142.00	Ericsson AIR 21, 1.3M, B2A	3	83.00	6.050	0.86	250.94	7.142	0.86	0.000	0.000
142.00	Ericsson AIR 21, 1.3M, B4A	3	81.50	6.090	0.85	249.39	7.187	0.85	0.000	0.000
142.00	Ericsson KRY 112 144/1	3	11.00	0.410	0.50	27.25	0.633	0.50	0.000	0.000
142.00	Flat Light Sector Frame	3	400.00	17.900	0.75	699.92	32.937	0.75	0.000	0.000
131.00	Kathrein 800 10504	6	17.60	3.340	0.78	97.92	4.285	0.78	0.000	0.000
131.00	Kathrein RCU	6	10.00	0.160	0.50	20.08	0.376	0.50	0.000	0.000
131.00	Round T-Arm	3	250.00	9.700	0.67	456.61	17.850	0.67	0.000	0.000
40.00	Channel Master Type 120	1	126.00	20.190	1.00	306.57	22.833	1.00	0.000	0.000
Totals		60	5789.10			13,673.62			Number of Loadings : 18	

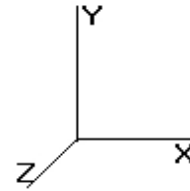
Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Exposed Width (in)	Exposed To Wind
0.00	150.00	(1) 0.39" Fiber Trunk	0.00	N
0.00	150.00	(2) 0.78" 8 AWG 6	0.00	N
0.00	150.00	(1) 1 5/8" Coax	0.00	N
0.00	150.00	(1) 2" Conduit	0.00	N
0.00	150.00	(1) 7/8" Coax	0.00	N
10.00	150.00	(13) 1 1/4" Coax	0.00	N
10.00	150.00	(1) 1 5/8" Coax	0.00	N
0.00	142.00	(1) 1 5/8" Hybriflex	0.00	N
10.00	142.00	(12) 1 5/8" Coax	0.00	N
0.00	132.00	(4) #20 Dywidag bars	6.70	Y
0.00	131.00	(12) 1 5/8" Coax	0.00	Y
0.00	131.00	(6) 3/8" Coax	0.00	Y
0.00	80.00	(4) #20 Dywidag bars	6.70	Y

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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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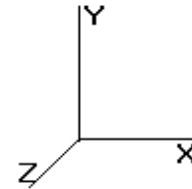
10.00 40.00 (1) 0.28" RG-6 0.00 Y

Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	— Intermediate Connections —			Connectors	Continuation?
						Description	Spacing (in)	Len (in)		
0.00	128.0	4	SOL #20 All Thread	80	5.15	6" T Bracket	30.0	3.31	5/8" A36 U-Bolt	No
0.00	75.50	4	SOL #20 All Thread	80	5.15	6" T Bracket	30.0	3.31	5/8" A36 U-Bolt	No

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (in/ft)

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



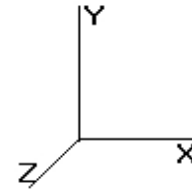
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Segment Properties (Max Len : 5 ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	S (in3)	Weight (lb)	Additional Reinforcing			
											Area (in^2)	Ix (in^4)	Weight (lb)	
0.00		0.3750	37.380	44.684	7,810.1	24.57	99.68	77.9	403.6	0.0	39.28	12,37	0.0	
5.00		0.3750	36.597	43.737	7,324.4	24.01	97.59	78.5	386.6	752.2	39.28	11,99	668.0	
10.00		0.3750	35.813	42.791	6,859.3	23.45	95.50	79.1	370.0	736.1	39.28	11,61	668.0	
15.00		0.3750	35.029	41.845	6,414.3	22.89	93.41	79.8	353.7	720.0	39.28	11,24	668.0	
20.00		0.3750	34.246	40.899	5,989.0	22.33	91.32	80.4	337.8	703.9	39.28	10,88	668.0	
25.00		0.3750	33.462	39.953	5,583.0	21.77	89.23	81.0	322.3	687.8	39.28	10,52	668.0	
30.00		0.3750	32.679	39.007	5,195.7	21.21	87.14	81.6	307.1	671.7	39.28	10,17	668.0	
31.50	Bot - Section 2	0.3750	32.443	38.723	5,082.8	21.04	86.52	81.8	302.7	198.8	39.28	10,06	200.8	
35.00		0.3750	31.895	38.061	4,826.7	20.65	85.05	81.9	292.3	845.7	39.28	10,10	467.2	
35.67	Top - Section 1	0.3125	32.416	32.304	4,249.4	25.65	103.73	76.7	253.3	160.4	39.28	10,05	89.5	
40.00		0.3125	31.737	31.621	3,985.6	25.07	101.56	77.4	242.6	470.9	39.28	9,754	578.5	
45.00		0.3125	30.953	30.833	3,694.9	24.40	99.05	78.1	230.6	531.3	39.28	9,414	668.0	
50.00		0.3125	30.170	30.044	3,418.6	23.73	96.54	78.8	218.9	517.9	39.28	9,081	668.0	
55.00		0.3125	29.386	29.256	3,156.5	23.05	94.04	79.6	207.5	504.5	39.28	8,753	668.0	
60.00		0.3125	28.603	28.467	2,908.1	22.38	91.53	80.3	196.4	491.0	39.28	8,432	668.0	
65.00		0.3125	27.819	27.679	2,673.1	21.71	89.02	81.0	185.6	477.6	39.28	8,116	668.0	
70.00		0.3125	27.036	26.891	2,451.2	21.04	86.52	81.8	175.1	464.2	39.28	7,807	668.0	
70.00	Bot - Section 3	0.3125	27.035	26.890	2,451.0	21.04	86.51	81.8	175.1	0.3	39.28	7,806	0.4	
73.50	Top - Section 2	0.2500	26.987	21.523	1,963.9	26.78	107.95	75.5	140.6	575.9	39.28	7,787	467.6	
75.00		0.2500	26.752	21.335	1,912.7	26.53	107.01	75.8	138.1	109.1	39.28	7,696	200.0	
75.50	Reinf. Top	0.2500	26.674	21.271	1,895.8	26.45	106.70	75.9	137.3	36.2	39.28	7,666	66.8	
80.00		0.2500	25.969	20.704	1,748.0	25.69	103.88	76.7	130.0	321.4	19.64	3,697	300.6	
85.00		0.2500	25.185	20.073	1,593.1	24.85	100.74	77.6	122.2	346.9	19.64	3,550	334.0	
90.00		0.2500	24.402	19.442	1,447.6	24.01	97.61	78.5	114.6	336.2	19.64	3,405	334.0	
95.00		0.2500	23.618	18.812	1,311.2	23.17	94.47	79.4	107.2	325.4	19.64	3,263	334.0	
100.00		0.2500	22.835	18.181	1,183.7	22.33	91.34	80.4	100.1	314.7	19.64	3,125	334.0	
105.00		0.2500	22.051	17.550	1,064.7	21.49	88.21	81.3	93.3	304.0	19.64	2,989	334.0	
110.00		0.2500	21.268	16.919	954.0	20.65	85.07	81.9	86.7	293.2	19.64	2,857	334.0	
110.00	Top - Section 3	0.2500	21.267	16.919	953.9	20.65	85.07	81.9	86.7	0.2	19.64	2,856	0.2	
110.00	Bot - Section 4	0.1875	21.267	12.727	721.9	28.25	113.43	73.9	65.6		19.64	2,856		
115.00		0.1875	20.484	12.254	644.4	27.13	109.25	75.1	60.8	212.4	19.64	2,727	333.8	
120.00		0.1875	19.701	11.781	572.6	26.01	105.07	76.3	56.1	204.5	19.64	2,600	334.0	
125.00		0.1875	18.917	11.308	506.4	24.89	100.89	77.6	51.7	196.4	19.64	2,477	334.0	
128.00	Reinf. Top	0.1875	18.447	11.024	469.2	24.22	98.39	78.3	49.1	114.0	19.64	2,477	334.0	
130.00		0.1875	18.134	10.835	445.4	23.77	96.71	78.8	47.5	74.4				
131.00		0.1875	17.977	10.741	433.9	23.55	95.88	79.0	46.6	36.7				
135.00		0.1875	17.350	10.362	389.6	22.65	92.54	80.0	43.4	143.6				
140.00		0.1875	16.567	9.889	338.6	21.53	88.36	81.2	39.5	172.3				
142.00		0.1875	16.254	9.700	319.6	21.08	86.69	81.7	38.0	66.7				
145.00		0.1875	15.783	9.416	292.3	20.41	84.18	81.9	35.8	97.6				
150.00		0.1875	15.000	8.943	250.5	19.29	80.00	81.9	32.3	156.2				
											13,372.3			13,727.

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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	115.00 mph with No Ice	24 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

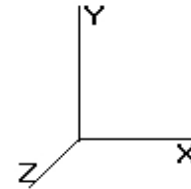
Shaft Segment Forces (Factored)

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	22.514	24.76	310.28	1.000	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	22.514	24.76	303.78	1.200	* 0.000	5.00	15.955	19.15	758.7	0.0	1,570.6
10.00		1.00	0.70	22.514	24.76	297.27	1.200	* 0.000	5.00	15.617	18.74	742.6	0.0	1,551.3
15.00		1.00	0.70	22.514	24.76	290.77	1.200	* 0.000	5.00	15.279	18.34	726.5	0.0	1,532.0
20.00		1.00	0.70	22.514	24.76	284.27	1.200	* 0.000	5.00	14.942	17.93	710.5	0.0	1,512.7
25.00		1.00	0.70	22.514	24.76	277.76	1.200	* 0.000	5.00	14.604	17.52	694.4	0.0	1,493.4
30.00		1.00	0.70	22.533	24.78	271.37	1.200	* 0.000	5.00	14.266	17.12	678.9	0.0	1,474.0
31.50	Bot - Section 2	1.00	0.71	22.850	25.13	271.31	1.200	* 0.000	1.50	4.223	5.07	203.8	0.0	439.4
35.00		1.00	0.73	23.548	25.90	270.76	1.200	* 0.000	3.50	9.893	11.87	492.0	0.0	1,482.0
35.67	Top - Section 1	1.00	0.73	23.676	26.04	270.60	1.200	* 0.000	0.67	1.877	2.25	93.8	0.0	282.0
40.00	Appertunance(s)	1.00	0.76	24.464	26.91	274.61	1.200	* 0.000	4.33	11.982	14.38	619.1	0.0	1,143.6
45.00		1.00	0.78	25.301	27.83	272.37	1.200	* 0.000	5.00	13.521	16.23	722.5	0.0	1,305.5
50.00		1.00	0.81	26.074	28.68	269.50	1.200	* 0.000	5.00	13.183	15.82	726.0	0.0	1,289.4
55.00		1.00	0.83	26.794	29.47	266.10	1.200	* 0.000	5.00	12.845	15.41	726.9	0.0	1,273.3
60.00		1.00	0.85	27.468	30.21	262.25	1.200	* 0.000	5.00	12.507	15.01	725.6	0.0	1,257.3
65.00		1.00	0.87	28.104	30.91	258.00	1.200	* 0.000	5.00	12.169	14.60	722.3	0.0	1,241.2
70.00		1.00	0.89	28.705	31.57	253.40	1.200	* 0.000	5.00	11.831	14.20	717.3	0.0	1,225.1
70.00	Bot - Section 3	1.00	0.89	28.706	31.57	253.40	1.200	* 0.000	0.00	0.008	0.01	0.5	0.0	0.8
73.50	Top - Section 2	1.00	0.90	29.108	32.01	249.99	1.200	* 0.000	3.50	8.232	9.88	506.1	0.0	1,158.7
75.00		1.00	0.91	29.277	32.20	253.23	1.200	* 0.000	1.50	3.469	4.16	214.5	0.0	330.9
75.50	Reinf. Top	1.00	0.91	29.332	32.26	252.73	1.200	* 0.000	0.50	1.152	1.38	71.4	0.0	110.3
80.00		1.00	0.92	29.821	32.80	248.09	1.200	* 0.000	4.50	10.219	12.26	643.6	0.0	686.2
85.00		1.00	0.94	30.343	33.37	242.70	1.200	* 0.000	5.00	11.033	13.24	707.0	0.0	750.3
90.00		1.00	0.95	30.842	33.92	237.07	1.200	* 0.000	5.00	10.695	12.83	696.7	0.0	737.4
95.00		1.00	0.97	31.322	34.45	231.24	1.200	* 0.000	5.00	10.357	12.43	685.2	0.0	724.5
100.00		1.00	0.98	31.785	34.96	225.21	1.200	* 0.000	5.00	10.019	12.02	672.6	0.0	711.6
105.00		1.00	1.00	32.231	35.45	219.01	1.200	* 0.000	5.00	9.681	11.62	659.0	0.0	698.8
110.00		1.00	1.01	32.662	35.92	212.63	1.200	* 0.000	5.00	9.343	11.21	644.5	0.0	685.9
110.00	Top - Section 3	1.00	1.01	32.662	35.92	212.63	1.200	* 0.000	0.00	0.006	0.01	0.4	0.0	0.5
115.00		1.00	1.02	33.080	36.38	206.11	1.200	* 0.000	5.00	8.999	10.80	628.7	0.0	588.6
120.00		1.00	1.04	33.484	36.83	199.43	1.200	* 0.000	5.00	8.667	10.40	612.9	0.0	579.4
125.00		1.00	1.05	33.877	37.26	192.62	1.200	* 0.000	5.00	8.329	10.00	596.0	0.0	569.7
128.00	Reinf. Top	1.00	1.06	34.107	37.51	188.47	1.200	* 0.000	3.00	4.835	5.80	348.3	0.0	470.8
130.00		1.00	1.06	34.259	37.68	185.68	1.200	* 0.000	2.00	3.156	3.79	228.4	0.0	89.3
131.00	Appertunance(s)	1.00	1.06	34.334	37.76	184.28	1.200	* 0.000	1.00	1.558	1.87	113.0	0.0	44.1
135.00		1.00	1.07	34.630	38.09	178.62	1.000	0.000	4.00	6.096	6.10	371.5	0.0	172.3
140.00		1.00	1.08	34.992	38.49	171.44	1.000	0.000	5.00	7.315	7.32	450.5	0.0	206.7
142.00	Appertunance(s)	1.00	1.09	35.134	38.64	168.54	1.000	0.000	2.00	2.832	2.83	175.1	0.0	80.0
145.00		1.00	1.09	35.345	38.87	164.15	1.000	0.000	3.00	4.146	4.15	257.9	0.0	117.1
150.00	Appertunance(s)	1.00	1.11	35.689	39.25	156.76	1.000	0.000	5.00	6.639	6.64	417.0	0.0	187.4
* = Cf Adjusted By Linear Load Ra Effect								Totals:	150.00			19,761.7	0.0	29,774.0

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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 115.00 mph with No Ice 24 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 1.20

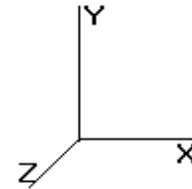
Wind Load Factor : 1.60

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)
40.00	Channel Master Type	1	24.464	26.910	1.00	1.00	20.19	0.000	0.000	869.30	0.00	0.00	151.20
131.0	Kathrein 800 10504	6	34.334	37.767	0.78	0.80	12.50	0.000	0.000	755.65	0.00	0.00	126.72
131.0	Kathrein RCU	6	34.334	37.767	0.50	0.80	0.38	0.000	0.000	23.20	0.00	0.00	72.00
131.0	Round T-Arm	3	34.334	37.767	0.67	0.75	14.62	0.000	0.000	883.61	0.00	0.00	900.00
142.0	Ericsson KRY 112 144	3	35.134	38.648	0.50	0.80	0.49	0.000	0.000	30.42	0.00	0.00	39.60
142.0	Ericsson AIR 21, 1.3	3	35.134	38.648	0.86	0.80	12.49	0.000	0.000	772.16	0.00	0.00	298.80
142.0	Flat Light Sector Fr	3	35.134	38.648	0.75	0.75	30.21	0.000	0.000	1,867.82	0.00	0.00	1,440.00
142.0	Ericsson AIR 21, 1.3	3	35.134	38.648	0.85	0.80	12.42	0.000	0.000	768.23	0.00	0.00	293.40
150.0	8' Omni	1	35.958	39.554	1.00	0.75	1.80	0.000	4.000	113.91	0.00	455.66	30.00
150.0	3' Yagi	1	35.891	39.480	1.00	0.75	2.24	0.000	3.000	141.18	0.00	423.54	12.00
150.0	Flat Platform w/ Han	1	35.689	39.257	1.00	1.00	42.40	0.000	0.000	2,663.22	0.00	0.00	2,400.00
150.0	Powerwave LGP13519	6	35.824	39.406	0.50	0.75	0.76	3.448	2.000	48.23	166.33	96.47	38.16
150.0	Powerwave P65-17-	4	35.824	39.406	0.80	0.75	27.53	0.000	2.000	1,735.64	0.00	3,471.29	283.20
150.0	KMW AM-X-CD-17-65-	2	35.824	39.406	0.80	0.75	13.57	0.000	2.000	855.72	0.00	1,711.43	142.80
150.0	Powerwave 7770.00	4	35.824	39.406	0.77	0.75	12.73	0.000	2.000	802.51	0.00	1,605.02	168.00
150.0	Raycap DC6-48-60-18-	1	35.824	39.406	1.00	0.75	0.83	0.000	2.000	52.49	0.00	104.98	24.00
150.0	Ericsson RRUS-11 800	6	35.824	39.406	0.67	0.75	7.60	0.000	2.000	479.04	0.00	958.08	388.80
150.0	CCI	6	35.824	39.406	0.50	0.75	2.18	0.000	2.000	137.61	0.00	275.21	138.24
										12,999.95			6,946.92

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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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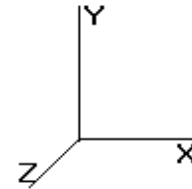
Load Case: 1.2D + 1.6W	115.00 mph with No Ice	24 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

Linear Appurtenance Segment Forces (Factored)

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	FX (lb)	Dead Load (lb)
5.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	2.00	22.514	0.350	0.000	79.07	0.00
5.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.350	0.000	0.00	59.03
5.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.350	0.000	0.00	2.88
5.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	2.00	22.514	0.350	0.000	79.07	0.00
10.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	2.00	22.514	0.358	0.000	79.07	0.00
10.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.358	0.000	0.00	59.03
10.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.358	0.000	0.00	2.88
10.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	2.00	22.514	0.358	0.000	79.07	0.00
15.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	2.00	22.514	0.365	0.000	79.07	0.00
15.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.365	0.000	0.00	59.03
15.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.365	0.000	0.00	2.88
15.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	2.00	22.514	0.365	0.000	79.07	0.00
15.00	(1) 0.28" RG-6	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.365	0.000	0.00	0.17
20.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	2.00	22.514	0.374	0.000	79.07	0.00
20.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.374	0.000	0.00	59.03
20.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.374	0.000	0.00	2.88
20.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	2.00	22.514	0.374	0.000	79.07	0.00
20.00	(1) 0.28" RG-6	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.374	0.000	0.00	0.17
25.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	2.00	22.514	0.382	0.000	79.07	0.00
25.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.382	0.000	0.00	59.03
25.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.382	0.000	0.00	2.88
25.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	2.00	22.514	0.382	0.000	79.07	0.00
25.00	(1) 0.28" RG-6	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.382	0.000	0.00	0.17
30.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	1.99	22.533	0.391	0.000	79.11	0.00
30.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.533	0.391	0.000	0.00	59.03
30.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.533	0.391	0.000	0.00	2.88
30.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	1.99	22.533	0.391	0.000	79.11	0.00
30.00	(1) 0.28" RG-6	Yes	5.00	0.000	0.00	0.00	0.00	22.533	0.391	0.000	0.00	0.17
31.50	(4) #20 Dywidag bars	Yes	1.50	0.710	6.70	0.84	0.60	22.850	0.398	0.000	23.95	0.00
31.50	(12) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	22.850	0.398	0.000	0.00	17.75
31.50	(6) 3/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	22.850	0.398	0.000	0.00	0.86
31.50	(4) #20 Dywidag bars	Yes	1.50	0.710	6.70	0.84	0.60	22.850	0.398	0.000	23.95	0.00
31.50	(1) 0.28" RG-6	Yes	1.50	0.000	0.00	0.00	0.00	22.850	0.398	0.000	0.00	0.05
35.00	(4) #20 Dywidag bars	Yes	3.50	0.699	6.70	1.95	1.36	23.548	0.402	0.000	56.55	0.00
35.00	(12) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	23.548	0.402	0.000	0.00	41.28
35.00	(6) 3/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	23.548	0.402	0.000	0.00	2.01
35.00	(4) #20 Dywidag bars	Yes	3.50	0.699	6.70	1.95	1.36	23.548	0.402	0.000	56.55	0.00
35.00	(1) 0.28" RG-6	Yes	3.50	0.000	0.00	0.00	0.00	23.548	0.402	0.000	0.00	0.12
35.67	(4) #20 Dywidag bars	Yes	0.67	0.697	6.70	0.37	0.26	23.676	0.406	0.000	10.87	0.00
35.67	(12) 1 5/8" Coax	Yes	0.67	0.000	0.00	0.00	0.00	23.676	0.406	0.000	0.00	7.91
35.67	(6) 3/8" Coax	Yes	0.67	0.000	0.00	0.00	0.00	23.676	0.406	0.000	0.00	0.39
35.67	(4) #20 Dywidag bars	Yes	0.67	0.697	6.70	0.37	0.26	23.676	0.406	0.000	10.87	0.00
35.67	(1) 0.28" RG-6	Yes	0.67	0.000	0.00	0.00	0.00	23.676	0.406	0.000	0.00	0.02
40.00	(4) #20 Dywidag bars	Yes	4.33	0.686	6.70	2.42	1.66	24.464	0.404	0.000	71.38	0.00
40.00	(12) 1 5/8" Coax	Yes	4.33	0.000	0.00	0.00	0.00	24.464	0.404	0.000	0.00	51.12
40.00	(6) 3/8" Coax	Yes	4.33	0.000	0.00	0.00	0.00	24.464	0.404	0.000	0.00	2.49
40.00	(4) #20 Dywidag bars	Yes	4.33	0.686	6.70	2.42	1.66	24.464	0.404	0.000	71.38	0.00
40.00	(1) 0.28" RG-6	Yes	4.33	0.000	0.00	0.00	0.00	24.464	0.404	0.000	0.00	0.15
45.00	(4) #20 Dywidag bars	Yes	5.00	0.674	6.70	2.79	1.88	25.301	0.413	0.000	83.82	0.00
45.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.301	0.413	0.000	0.00	59.03
45.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.301	0.413	0.000	0.00	2.88

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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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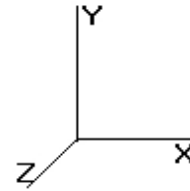
Load Case: 1.2D + 1.6W	115.00 mph with No Ice	24 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

45.00	(4) #20 Dywidag bars	Yes	5.00	0.674	6.70	2.79	1.88	25.301	0.413	0.000	83.82	0.00
50.00	(4) #20 Dywidag bars	Yes	5.00	0.664	6.70	2.79	1.85	26.074	0.424	0.000	85.09	0.00
50.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.074	0.424	0.000	0.00	59.03
50.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.074	0.424	0.000	0.00	2.88
50.00	(4) #20 Dywidag bars	Yes	5.00	0.664	6.70	2.79	1.85	26.074	0.424	0.000	85.09	0.00
55.00	(4) #20 Dywidag bars	Yes	5.00	0.655	6.70	2.79	1.83	26.794	0.435	0.000	86.26	0.00
55.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.794	0.435	0.000	0.00	59.03
55.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.794	0.435	0.000	0.00	2.88
55.00	(4) #20 Dywidag bars	Yes	5.00	0.655	6.70	2.79	1.83	26.794	0.435	0.000	86.26	0.00
60.00	(4) #20 Dywidag bars	Yes	5.00	0.647	6.70	2.79	1.81	27.468	0.446	0.000	87.34	0.00
60.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.468	0.446	0.000	0.00	59.03
60.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.468	0.446	0.000	0.00	2.88
60.00	(4) #20 Dywidag bars	Yes	5.00	0.647	6.70	2.79	1.81	27.468	0.446	0.000	87.34	0.00
65.00	(4) #20 Dywidag bars	Yes	5.00	0.640	6.70	2.79	1.79	28.104	0.459	0.000	88.34	0.00
65.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.104	0.459	0.000	0.00	59.03
65.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.104	0.459	0.000	0.00	2.88
65.00	(4) #20 Dywidag bars	Yes	5.00	0.640	6.70	2.79	1.79	28.104	0.459	0.000	88.34	0.00
70.00	(4) #20 Dywidag bars	Yes	5.00	0.633	6.70	2.79	1.77	28.705	0.472	0.000	89.28	0.00
70.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.705	0.472	0.000	0.00	59.03
70.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.705	0.472	0.000	0.00	2.88
70.00	(4) #20 Dywidag bars	Yes	5.00	0.633	6.70	2.79	1.77	28.705	0.472	0.000	89.28	0.00
70.00	(4) #20 Dywidag bars	Yes	0.00	0.633	6.70	0.00	0.00	28.706	0.479	0.000	0.06	0.00
70.00	(12) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	28.706	0.479	0.000	0.00	0.04
70.00	(6) 3/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	28.706	0.479	0.000	0.00	0.00
70.00	(4) #20 Dywidag bars	Yes	0.00	0.633	6.70	0.00	0.00	28.706	0.479	0.000	0.06	0.00
73.50	(4) #20 Dywidag bars	Yes	3.50	0.629	6.70	1.95	1.23	29.108	0.484	0.000	62.94	0.00
73.50	(12) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	29.108	0.484	0.000	0.00	41.32
73.50	(6) 3/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	29.108	0.484	0.000	0.00	2.01
73.50	(4) #20 Dywidag bars	Yes	3.50	0.629	6.70	1.95	1.23	29.108	0.484	0.000	62.94	0.00
75.00	(4) #20 Dywidag bars	Yes	1.50	0.627	6.70	0.84	0.52	29.277	0.482	0.000	26.99	0.00
75.00	(12) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	29.277	0.482	0.000	0.00	17.67
75.00	(6) 3/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	29.277	0.482	0.000	0.00	0.86
75.00	(4) #20 Dywidag bars	Yes	1.50	0.627	6.70	0.84	0.52	29.277	0.482	0.000	26.99	0.00
75.50	(4) #20 Dywidag bars	Yes	0.50	0.626	6.70	0.28	0.17	29.332	0.485	0.000	9.03	0.00
75.50	(12) 1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	29.332	0.485	0.000	0.00	5.90
75.50	(6) 3/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	29.332	0.485	0.000	0.00	0.29
75.50	(4) #20 Dywidag bars	Yes	0.50	0.626	6.70	0.28	0.17	29.332	0.485	0.000	9.03	0.00
80.00	(4) #20 Dywidag bars	Yes	4.50	0.621	6.70	2.51	1.56	29.821	0.492	0.000	81.90	0.00
80.00	(12) 1 5/8" Coax	Yes	4.50	0.000	0.00	0.00	0.00	29.821	0.492	0.000	0.00	53.13
80.00	(6) 3/8" Coax	Yes	4.50	0.000	0.00	0.00	0.00	29.821	0.492	0.000	0.00	2.59
80.00	(4) #20 Dywidag bars	Yes	4.50	0.621	6.70	2.51	1.56	29.821	0.492	0.000	81.90	0.00
85.00	(4) #20 Dywidag bars	Yes	5.00	0.616	6.70	2.79	1.72	30.343	0.253	0.000	91.80	0.00
85.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.343	0.253	0.000	0.00	59.03
85.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.343	0.253	0.000	0.00	2.88
90.00	(4) #20 Dywidag bars	Yes	5.00	0.611	6.70	2.79	1.70	30.842	0.261	0.000	92.55	0.00
90.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.842	0.261	0.000	0.00	59.03
90.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.842	0.261	0.000	0.00	2.88
95.00	(4) #20 Dywidag bars	Yes	5.00	0.606	6.70	2.79	1.69	31.322	0.270	0.000	93.27	0.00
95.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	31.322	0.270	0.000	0.00	59.03
95.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	31.322	0.270	0.000	0.00	2.88
100.0	(4) #20 Dywidag bars	Yes	5.00	0.602	6.70	2.79	1.68	31.785	0.279	0.000	93.95	0.00
100.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	31.785	0.279	0.000	0.00	59.03
100.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	31.785	0.279	0.000	0.00	2.88
105.0	(4) #20 Dywidag bars	Yes	5.00	0.600	6.70	2.79	1.67	32.231	0.288	0.000	95.02	0.00
105.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	32.231	0.288	0.000	0.00	59.03
105.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	32.231	0.288	0.000	0.00	2.88
110.0	(4) #20 Dywidag bars	Yes	5.00	0.600	6.70	2.79	1.67	32.662	0.299	0.000	96.29	0.00

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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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 Page: 8



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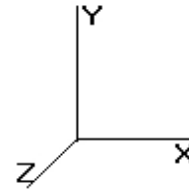
Load Case: 1.2D + 1.6W	115.00 mph with No Ice	24 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

110.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	32.662	0.299	0.000	0.00	59.03
110.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	32.662	0.299	0.000	0.00	2.88
110.0	(4) #20 Dywidag bars	Yes	0.00	0.600	6.70	0.00	0.00	32.662	0.304	0.000	0.06	0.00
110.0	(12) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	32.662	0.304	0.000	0.00	0.04
110.0	(6) 3/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	32.662	0.304	0.000	0.00	0.00
115.0	(4) #20 Dywidag bars	Yes	5.00	0.600	6.70	2.79	1.67	33.080	0.310	0.000	97.45	0.00
115.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	33.080	0.310	0.000	0.00	58.99
115.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	33.080	0.310	0.000	0.00	2.87
120.0	(4) #20 Dywidag bars	Yes	5.00	0.600	6.70	2.79	1.67	33.484	0.322	0.000	98.71	0.00
120.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	33.484	0.322	0.000	0.00	59.03
120.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	33.484	0.322	0.000	0.00	2.88
125.0	(4) #20 Dywidag bars	Yes	5.00	0.600	6.70	2.79	1.67	33.877	0.335	0.000	99.87	0.00
125.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	33.877	0.335	0.000	0.00	59.03
125.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	33.877	0.335	0.000	0.00	2.88
128.0	(4) #20 Dywidag bars	Yes	3.00	0.600	6.70	1.67	1.00	34.107	0.346	0.000	60.33	0.00
128.0	(12) 1 5/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	34.107	0.346	0.000	0.00	35.42
128.0	(6) 3/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	34.107	0.346	0.000	0.00	1.73
130.0	(4) #20 Dywidag bars	Yes	2.00	0.600	6.70	1.12	0.67	34.259	0.354	0.000	40.40	0.00
130.0	(12) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	34.259	0.354	0.000	0.00	23.61
130.0	(6) 3/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	34.259	0.354	0.000	0.00	1.15
131.0	(4) #20 Dywidag bars	Yes	1.00	0.600	6.70	0.56	0.34	34.334	0.358	0.000	20.24	0.00
131.0	(12) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	34.334	0.358	0.000	0.00	11.81
131.0	(6) 3/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	34.334	0.358	0.000	0.00	0.58
135.0	(4) #20 Dywidag bars	Yes	1.00	0.000	6.70	0.56	0.00	34.630	0.092	0.000	0.00	0.00
Totals:											3,656.49	1,623.06

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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 115.00 mph with No Ice 24 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 1.20

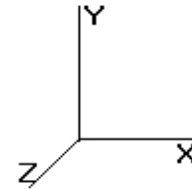
Wind Load Factor : 1.60

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	916.83	1,676.64	0.00	0.00
10.00	900.76	1,657.32	0.00	0.00
15.00	884.69	1,752.58	0.00	0.00
20.00	868.61	1,733.27	0.00	0.00
25.00	852.54	1,713.95	0.00	0.00
30.00	837.11	1,694.64	0.00	0.00
31.50	251.71	505.74	0.00	0.00
35.00	605.12	1,636.25	0.00	0.00
35.67	115.57	311.55	0.00	0.00
40.00	1,631.16	1,485.83	0.00	0.00
45.00	890.16	1,525.95	0.00	0.00
50.00	896.17	1,509.86	0.00	0.00
55.00	899.42	1,493.76	0.00	0.00
60.00	900.27	1,477.67	0.00	0.00
65.00	899.00	1,461.57	0.00	0.00
70.00	895.85	1,445.47	0.00	0.00
70.00	0.59	0.96	0.00	0.00
73.50	631.93	1,313.00	0.00	0.00
75.00	268.51	396.89	0.00	0.00
75.50	89.44	132.33	0.00	0.00
80.00	807.42	884.62	0.00	0.00
85.00	798.84	970.68	0.00	0.00
90.00	789.22	957.80	0.00	0.00
95.00	778.42	944.92	0.00	0.00
100.0	766.53	932.04	0.00	0.00
105.0	754.03	919.17	0.00	0.00
110.0	740.81	906.29	0.00	0.00
110.0	0.49	0.60	0.00	0.00
115.0	726.17	808.89	0.00	0.00
120.0	711.65	799.77	0.00	0.00
125.0	695.82	790.12	0.00	0.00
128.0	408.64	603.03	0.00	0.00
130.0	268.75	177.43	0.00	0.00
131.0	1,795.66	1,186.85	0.00	0.00
135.0	371.53	299.14	0.00	0.00
140.0	450.53	365.24	0.00	0.00
142.0	3,613.72	2,215.19	0.00	0.00
145.0	257.90	172.09	0.00	0.00
150.0	7,446.59	3,904.29	166.33	9,101.68
Totals:	36,418.16	42,763.39	166.33	9,101.68

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (in/ft)

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



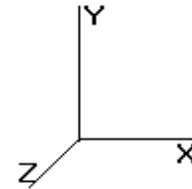
Load Case: 1.2D + 1.6W	115.00 mph with No Ice	24 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

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	-42.68	-36.51	-0.15	-3,579.93	-0.01	3,579.93	3,133.66	1,566.83	4,776.46	2,358.91	0.00	0.00	0.595
5.00	-40.86	-35.77	-0.15	-3,397.37	-0.01	3,397.37	3,091.35	1,545.67	4,611.19	2,277.30	0.13	-0.25	0.573
10.00	-39.06	-35.02	-0.15	-3,218.54	-0.01	3,218.54	3,047.99	1,524.00	4,447.17	2,196.29	0.52	-0.49	0.551
15.00	-37.17	-34.27	-0.15	-3,043.44	-0.01	3,043.44	3,003.60	1,501.80	4,284.50	2,115.95	1.17	-0.73	0.529
20.00	-35.31	-33.52	-0.15	-2,872.08	-0.01	2,872.08	2,958.17	1,479.08	4,123.27	2,036.33	2.06	-0.97	0.507
25.00	-33.48	-32.78	-0.15	-2,704.46	-0.01	2,704.46	2,911.70	1,455.85	3,963.58	1,957.46	3.20	-1.20	0.485
30.00	-31.72	-31.98	-0.15	-2,540.58	0.00	2,540.58	2,864.18	1,432.09	3,805.55	1,879.42	4.59	-1.44	0.463
31.50	-31.16	-31.78	-0.15	-2,492.50	0.00	2,492.50	2,849.69	1,424.85	3,758.37	1,856.12	5.05	-1.51	0.456
35.00	-29.49	-31.18	-0.15	-2,381.37	0.00	2,381.37	2,805.48	1,402.74	3,636.10	1,795.73	6.22	-1.67	0.434
35.67	-29.12	-31.11	-0.15	-2,360.48	0.00	2,360.48	2,231.05	1,115.53	2,951.35	1,457.56	6.45	-1.70	0.488
40.00	-27.58	-29.54	-0.15	-2,225.77	0.00	2,225.77	2,201.95	1,100.98	2,850.70	1,407.85	8.08	-1.89	0.465
45.00	-25.98	-28.69	-0.15	-2,078.10	0.00	2,078.10	2,167.39	1,083.69	2,735.30	1,350.86	10.18	-2.11	0.440
50.00	-24.40	-27.83	-0.15	-1,934.64	0.00	1,934.64	2,131.78	1,065.89	2,620.87	1,294.35	12.50	-2.33	0.414
55.00	-22.85	-26.95	-0.15	-1,795.49	0.00	1,795.49	2,095.13	1,047.56	2,507.52	1,238.37	15.06	-2.54	0.390
60.00	-21.32	-26.06	-0.15	-1,660.74	0.00	1,660.74	2,057.44	1,028.72	2,395.35	1,182.97	17.83	-2.75	0.365
65.00	-19.82	-25.16	-0.15	-1,530.44	0.00	1,530.44	2,018.71	1,009.36	2,284.46	1,128.21	20.81	-2.95	0.341
70.00	-18.38	-24.22	-0.15	-1,404.65	0.00	1,404.65	1,978.94	989.47	2,174.96	1,074.13	24.00	-3.14	0.317
70.00	-18.35	-24.24	-0.15	-1,404.57	0.00	1,404.57	1,978.92	989.46	2,174.88	1,074.09	24.00	-3.14	0.317
73.50	-17.04	-23.56	-0.15	-1,319.74	0.00	1,319.74	1,462.63	731.31	1,612.04	796.13	26.35	-3.27	0.339
75.00	-16.64	-23.28	-0.16	-1,284.48	0.00	1,284.48	1,455.06	727.53	1,589.51	785.00	27.39	-3.33	0.331
75.50	-16.48	-23.21	-0.16	-1,272.84	0.00	1,272.84	1,452.51	726.26	1,581.99	781.28	27.74	-3.35	0.328
75.50	-16.48	-23.21	-0.16	-1,272.84	0.00	1,272.84	1,452.51	726.26	1,581.99	781.28	27.74	-3.35	0.546
80.00	-15.55	-22.41	-0.16	-1,168.40	0.00	1,168.40	1,429.11	714.55	1,514.58	747.99	30.97	-3.51	0.508
85.00	-14.53	-21.63	-0.16	-1,056.33	0.00	1,056.33	1,402.12	701.06	1,440.27	711.29	34.80	-3.80	0.466
90.00	-13.53	-20.84	-0.16	-948.20	0.00	948.20	1,374.09	687.04	1,366.68	674.95	38.93	-4.08	0.425
95.00	-12.56	-20.05	-0.16	-844.01	0.00	844.01	1,345.02	672.51	1,293.93	639.02	43.34	-4.34	0.384
100.00	-11.61	-19.26	-0.16	-743.78	0.00	743.78	1,314.91	657.46	1,222.10	603.55	48.01	-4.59	0.344
105.00	-10.68	-18.47	-0.16	-647.48	0.00	647.48	1,283.76	641.88	1,151.31	568.59	52.94	-4.82	0.304
110.00	-9.81	-17.68	-0.16	-555.11	0.00	555.11	1,247.14	623.57	1,077.81	532.29	58.09	-5.03	0.266
110.00	-9.78	-17.69	-0.16	-555.06	0.00	555.06	1,247.10	623.55	1,077.76	532.26	58.09	-5.03	0.265
110.00	-9.78	-17.69	-0.16	-555.06	0.00	555.06	846.53	423.27	735.94	363.45	58.09	-5.03	0.314
115.00	-8.98	-16.93	-0.16	-466.66	0.00	466.66	828.55	414.27	693.31	342.40	63.45	-5.22	0.266
120.00	-8.21	-16.17	-0.16	-382.03	0.00	382.03	809.51	404.76	651.00	321.50	69.01	-5.40	0.220
125.00	-7.46	-15.41	-0.16	-301.20	0.00	301.20	789.44	394.72	609.12	300.82	74.74	-5.55	0.175
128.00	-6.88	-14.96	-0.16	-254.96	-0.01	254.96	776.89	388.45	584.25	288.54	78.25	-5.63	0.145
128.00	-6.88	-14.96	-0.16	-254.96	-0.01	254.96	776.89	388.45	584.25	288.54	78.25	-5.63	0.894
130.00	-6.71	-14.68	-0.16	-225.05	-0.01	225.05	768.32	384.16	567.78	280.41	80.62	-5.68	0.813
131.00	-5.63	-12.81	-0.16	-210.37	-0.01	210.37	763.98	381.99	559.59	276.36	81.82	-5.81	0.770
135.00	-5.27	-12.45	-0.16	-159.14	-0.01	159.14	746.17	373.08	527.09	260.31	86.90	-6.30	0.620
140.00	-4.90	-11.99	-0.16	-96.88	-0.01	96.88	722.98	361.49	487.14	240.58	93.75	-6.77	0.411
142.00	-3.11	-8.14	-0.17	-72.91	-0.01	72.91	713.41	356.70	471.39	232.80	96.61	-6.91	0.318
145.00	-2.95	-7.88	-0.17	-48.48	-0.02	48.48	694.06	347.03	445.03	219.78	101.00	-7.07	0.225
150.00	0.00	-7.45	-0.17	-9.10	0.00	9.10	659.19	329.60	401.19	198.13	108.48	-7.21	0.046

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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	115.00 mph with No Ice (Reduced DL)	24 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 0.90		
Wind Load Factor : 1.60		

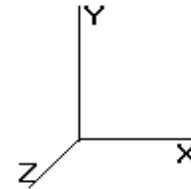
Shaft Segment Forces (Factored)

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	22.514	24.76	310.28	1.000	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	22.514	24.76	303.78	1.200	* 0.000	5.00	15.955	19.15	758.7	0.0	1,345.0
10.00		1.00	0.70	22.514	24.76	297.27	1.200	* 0.000	5.00	15.617	18.74	742.6	0.0	1,330.5
15.00		1.00	0.70	22.514	24.76	290.77	1.200	* 0.000	5.00	15.279	18.34	726.5	0.0	1,316.0
20.00		1.00	0.70	22.514	24.76	284.27	1.200	* 0.000	5.00	14.942	17.93	710.5	0.0	1,301.5
25.00		1.00	0.70	22.514	24.76	277.76	1.200	* 0.000	5.00	14.604	17.52	694.4	0.0	1,287.0
30.00		1.00	0.70	22.533	24.78	271.37	1.200	* 0.000	5.00	14.266	17.12	678.9	0.0	1,272.5
31.50	Bot - Section 2	1.00	0.71	22.850	25.13	271.31	1.200	* 0.000	1.50	4.223	5.07	203.8	0.0	379.8
35.00		1.00	0.73	23.548	25.90	270.76	1.200	* 0.000	3.50	9.893	11.87	492.0	0.0	1,228.3
35.67	Top - Section 1	1.00	0.73	23.676	26.04	270.60	1.200	* 0.000	0.67	1.877	2.25	93.8	0.0	233.9
40.00	Appertunance(s)	1.00	0.76	24.464	26.91	274.61	1.200	* 0.000	4.33	11.982	14.38	619.1	0.0	1,002.3
45.00		1.00	0.78	25.301	27.83	272.37	1.200	* 0.000	5.00	13.521	16.23	722.5	0.0	1,146.2
50.00		1.00	0.81	26.074	28.68	269.50	1.200	* 0.000	5.00	13.183	15.82	726.0	0.0	1,134.1
55.00		1.00	0.83	26.794	29.47	266.10	1.200	* 0.000	5.00	12.845	15.41	726.9	0.0	1,122.0
60.00		1.00	0.85	27.468	30.21	262.25	1.200	* 0.000	5.00	12.507	15.01	725.6	0.0	1,109.9
65.00		1.00	0.87	28.104	30.91	258.00	1.200	* 0.000	5.00	12.169	14.60	722.3	0.0	1,097.9
70.00		1.00	0.89	28.705	31.57	253.40	1.200	* 0.000	5.00	11.831	14.20	717.3	0.0	1,085.8
70.00	Bot - Section 3	1.00	0.89	28.706	31.57	253.40	1.200	* 0.000	0.00	0.008	0.01	0.5	0.0	0.7
73.50	Top - Section 2	1.00	0.90	29.108	32.01	249.99	1.200	* 0.000	3.50	8.232	9.88	506.1	0.0	985.9
75.00		1.00	0.91	29.277	32.20	253.23	1.200	* 0.000	1.50	3.469	4.16	214.5	0.0	298.2
75.50	Reinf. Top	1.00	0.91	29.332	32.26	252.73	1.200	* 0.000	0.50	1.152	1.38	71.4	0.0	99.4
80.00		1.00	0.92	29.821	32.80	248.09	1.200	* 0.000	4.50	10.219	12.26	643.6	0.0	589.8
85.00		1.00	0.94	30.343	33.37	242.70	1.200	* 0.000	5.00	11.033	13.24	707.0	0.0	646.2
90.00		1.00	0.95	30.842	33.92	237.07	1.200	* 0.000	5.00	10.695	12.83	696.7	0.0	636.5
95.00		1.00	0.97	31.322	34.45	231.24	1.200	* 0.000	5.00	10.357	12.43	685.2	0.0	626.9
100.0		1.00	0.98	31.785	34.96	225.21	1.200	* 0.000	5.00	10.019	12.02	672.6	0.0	617.2
105.0		1.00	1.00	32.231	35.45	219.01	1.200	* 0.000	5.00	9.681	11.62	659.0	0.0	607.6
110.0		1.00	1.01	32.662	35.92	212.63	1.200	* 0.000	5.00	9.343	11.21	644.5	0.0	597.9
110.0	Top - Section 3	1.00	1.01	32.662	35.92	212.63	1.200	* 0.000	0.00	0.006	0.01	0.4	0.0	0.4
115.0		1.00	1.02	33.080	36.38	206.11	1.200	* 0.000	5.00	8.999	10.80	628.7	0.0	524.9
120.0		1.00	1.04	33.484	36.83	199.43	1.200	* 0.000	5.00	8.667	10.40	612.9	0.0	518.0
125.0		1.00	1.05	33.877	37.26	192.62	1.200	* 0.000	5.00	8.329	10.00	596.0	0.0	510.8
128.0	Reinf. Top	1.00	1.06	34.107	37.51	188.47	1.200	* 0.000	3.00	4.835	5.80	348.3	0.0	436.6
130.0		1.00	1.06	34.259	37.68	185.68	1.200	* 0.000	2.00	3.156	3.79	228.4	0.0	66.9
131.0	Appertunance(s)	1.00	1.06	34.334	37.76	184.28	1.200	* 0.000	1.00	1.558	1.87	113.0	0.0	33.0
135.0		1.00	1.07	34.630	38.09	178.62	1.000	0.000	4.00	6.096	6.10	371.5	0.0	129.3
140.0		1.00	1.08	34.992	38.49	171.44	1.000	0.000	5.00	7.315	7.32	450.5	0.0	155.0
142.0	Appertunance(s)	1.00	1.09	35.134	38.64	168.54	1.000	0.000	2.00	2.832	2.83	175.1	0.0	60.0
145.0		1.00	1.09	35.345	38.87	164.15	1.000	0.000	3.00	4.146	4.15	257.9	0.0	87.8
150.0	Appertunance(s)	1.00	1.11	35.689	39.25	156.76	1.000	0.000	5.00	6.639	6.64	417.0	0.0	140.6
* = Cf Adjusted By Linear Load Ra Effect								Totals:	150.00			19,761.7	0.0	25,762.3

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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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 Page: 12



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Load Case: 0.9D + 1.6W 115.00 mph with No Ice (Reduced DL) 24 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 0.90

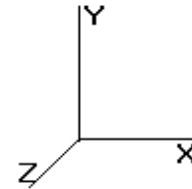
Wind Load Factor : 1.60

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)
40.00	Channel Master Type	1	24.464	26.910	1.00	1.00	20.19	0.000	0.000	869.30	0.00	0.00	113.40
131.0	Kathrein 800 10504	6	34.334	37.767	0.78	0.80	12.50	0.000	0.000	755.65	0.00	0.00	95.04
131.0	Kathrein RCU	6	34.334	37.767	0.50	0.80	0.38	0.000	0.000	23.20	0.00	0.00	54.00
131.0	Round T-Arm	3	34.334	37.767	0.67	0.75	14.62	0.000	0.000	883.61	0.00	0.00	675.00
142.0	Ericsson KRY 112 144	3	35.134	38.648	0.50	0.80	0.49	0.000	0.000	30.42	0.00	0.00	29.70
142.0	Ericsson AIR 21, 1.3	3	35.134	38.648	0.86	0.80	12.49	0.000	0.000	772.16	0.00	0.00	224.10
142.0	Flat Light Sector Fr	3	35.134	38.648	0.75	0.75	30.21	0.000	0.000	1,867.82	0.00	0.00	1,080.00
142.0	Ericsson AIR 21, 1.3	3	35.134	38.648	0.85	0.80	12.42	0.000	0.000	768.23	0.00	0.00	220.05
150.0	8' Omni	1	35.958	39.554	1.00	0.75	1.80	0.000	4.000	113.91	0.00	455.66	22.50
150.0	3' Yagi	1	35.891	39.480	1.00	0.75	2.24	0.000	3.000	141.18	0.00	423.54	9.00
150.0	Flat Platform w/ Han	1	35.689	39.257	1.00	1.00	42.40	0.000	0.000	2,663.22	0.00	0.00	1,800.00
150.0	Powerwave LGP13519	6	35.824	39.406	0.50	0.75	0.76	3.448	2.000	48.23	166.33	96.47	28.62
150.0	Powerwave P65-17-	4	35.824	39.406	0.80	0.75	27.53	0.000	2.000	1,735.64	0.00	3,471.29	212.40
150.0	KMW AM-X-CD-17-65-	2	35.824	39.406	0.80	0.75	13.57	0.000	2.000	855.72	0.00	1,711.43	107.10
150.0	Powerwave 7770.00	4	35.824	39.406	0.77	0.75	12.73	0.000	2.000	802.51	0.00	1,605.02	126.00
150.0	Raycap DC6-48-60-18-	1	35.824	39.406	1.00	0.75	0.83	0.000	2.000	52.49	0.00	104.98	18.00
150.0	Ericsson RRUS-11 800	6	35.824	39.406	0.67	0.75	7.60	0.000	2.000	479.04	0.00	958.08	291.60
150.0	CCI	6	35.824	39.406	0.50	0.75	2.18	0.000	2.000	137.61	0.00	275.21	103.68
										12,999.95			5,210.19

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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 115.00 mph with No Ice (Reduced DL) 24 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 0.90

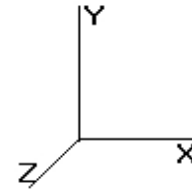
Wind Load Factor : 1.60

Linear Appurtenance Segment Forces (Factored)

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	FX (lb)	Dead Load (lb)
5.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	2.00	22.514	0.350	0.000	79.07	0.00
5.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.350	0.000	0.00	44.27
5.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.350	0.000	0.00	2.16
5.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	2.00	22.514	0.350	0.000	79.07	0.00
10.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	2.00	22.514	0.358	0.000	79.07	0.00
10.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.358	0.000	0.00	44.27
10.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.358	0.000	0.00	2.16
10.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	2.00	22.514	0.358	0.000	79.07	0.00
15.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	2.00	22.514	0.365	0.000	79.07	0.00
15.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.365	0.000	0.00	44.27
15.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.365	0.000	0.00	2.16
15.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	2.00	22.514	0.365	0.000	79.07	0.00
15.00	(1) 0.28" RG-6	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.365	0.000	0.00	0.13
20.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	2.00	22.514	0.374	0.000	79.07	0.00
20.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.374	0.000	0.00	44.27
20.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.374	0.000	0.00	2.16
20.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	2.00	22.514	0.374	0.000	79.07	0.00
20.00	(1) 0.28" RG-6	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.374	0.000	0.00	0.13
25.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	2.00	22.514	0.382	0.000	79.07	0.00
25.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.382	0.000	0.00	44.27
25.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.382	0.000	0.00	2.16
25.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	2.00	22.514	0.382	0.000	79.07	0.00
25.00	(1) 0.28" RG-6	Yes	5.00	0.000	0.00	0.00	0.00	22.514	0.382	0.000	0.00	0.13
30.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	1.99	22.533	0.391	0.000	79.11	0.00
30.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.533	0.391	0.000	0.00	44.27
30.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.533	0.391	0.000	0.00	2.16
30.00	(4) #20 Dywidag bars	Yes	5.00	0.715	6.70	2.79	1.99	22.533	0.391	0.000	79.11	0.00
30.00	(1) 0.28" RG-6	Yes	5.00	0.000	0.00	0.00	0.00	22.533	0.391	0.000	0.00	0.13
31.50	(4) #20 Dywidag bars	Yes	1.50	0.710	6.70	0.84	0.60	22.850	0.398	0.000	23.95	0.00
31.50	(12) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	22.850	0.398	0.000	0.00	13.31
31.50	(6) 3/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	22.850	0.398	0.000	0.00	0.65
31.50	(4) #20 Dywidag bars	Yes	1.50	0.710	6.70	0.84	0.60	22.850	0.398	0.000	23.95	0.00
31.50	(1) 0.28" RG-6	Yes	1.50	0.000	0.00	0.00	0.00	22.850	0.398	0.000	0.00	0.04
35.00	(4) #20 Dywidag bars	Yes	3.50	0.699	6.70	1.95	1.36	23.548	0.402	0.000	56.55	0.00
35.00	(12) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	23.548	0.402	0.000	0.00	30.96
35.00	(6) 3/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	23.548	0.402	0.000	0.00	1.51
35.00	(4) #20 Dywidag bars	Yes	3.50	0.699	6.70	1.95	1.36	23.548	0.402	0.000	56.55	0.00
35.00	(1) 0.28" RG-6	Yes	3.50	0.000	0.00	0.00	0.00	23.548	0.402	0.000	0.00	0.09
35.67	(4) #20 Dywidag bars	Yes	0.67	0.697	6.70	0.37	0.26	23.676	0.406	0.000	10.87	0.00
35.67	(12) 1 5/8" Coax	Yes	0.67	0.000	0.00	0.00	0.00	23.676	0.406	0.000	0.00	5.93
35.67	(6) 3/8" Coax	Yes	0.67	0.000	0.00	0.00	0.00	23.676	0.406	0.000	0.00	0.29
35.67	(4) #20 Dywidag bars	Yes	0.67	0.697	6.70	0.37	0.26	23.676	0.406	0.000	10.87	0.00
35.67	(1) 0.28" RG-6	Yes	0.67	0.000	0.00	0.00	0.00	23.676	0.406	0.000	0.00	0.02
40.00	(4) #20 Dywidag bars	Yes	4.33	0.686	6.70	2.42	1.66	24.464	0.404	0.000	71.38	0.00
40.00	(12) 1 5/8" Coax	Yes	4.33	0.000	0.00	0.00	0.00	24.464	0.404	0.000	0.00	38.34
40.00	(6) 3/8" Coax	Yes	4.33	0.000	0.00	0.00	0.00	24.464	0.404	0.000	0.00	1.87
40.00	(4) #20 Dywidag bars	Yes	4.33	0.686	6.70	2.42	1.66	24.464	0.404	0.000	71.38	0.00
40.00	(1) 0.28" RG-6	Yes	4.33	0.000	0.00	0.00	0.00	24.464	0.404	0.000	0.00	0.11
45.00	(4) #20 Dywidag bars	Yes	5.00	0.674	6.70	2.79	1.88	25.301	0.413	0.000	83.82	0.00
45.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.301	0.413	0.000	0.00	44.27
45.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.301	0.413	0.000	0.00	2.16

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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 115.00 mph with No Ice (Reduced DL) 24 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 0.90

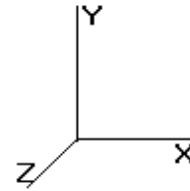
Wind Load Factor : 1.60

45.00	(4) #20 Dywidag bars	Yes	5.00	0.674	6.70	2.79	1.88	25.301	0.413	0.000	83.82	0.00
50.00	(4) #20 Dywidag bars	Yes	5.00	0.664	6.70	2.79	1.85	26.074	0.424	0.000	85.09	0.00
50.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.074	0.424	0.000	0.00	44.27
50.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.074	0.424	0.000	0.00	2.16
50.00	(4) #20 Dywidag bars	Yes	5.00	0.664	6.70	2.79	1.85	26.074	0.424	0.000	85.09	0.00
55.00	(4) #20 Dywidag bars	Yes	5.00	0.655	6.70	2.79	1.83	26.794	0.435	0.000	86.26	0.00
55.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.794	0.435	0.000	0.00	44.27
55.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.794	0.435	0.000	0.00	2.16
55.00	(4) #20 Dywidag bars	Yes	5.00	0.655	6.70	2.79	1.83	26.794	0.435	0.000	86.26	0.00
60.00	(4) #20 Dywidag bars	Yes	5.00	0.647	6.70	2.79	1.81	27.468	0.446	0.000	87.34	0.00
60.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.468	0.446	0.000	0.00	44.27
60.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.468	0.446	0.000	0.00	2.16
60.00	(4) #20 Dywidag bars	Yes	5.00	0.647	6.70	2.79	1.81	27.468	0.446	0.000	87.34	0.00
65.00	(4) #20 Dywidag bars	Yes	5.00	0.640	6.70	2.79	1.79	28.104	0.459	0.000	88.34	0.00
65.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.104	0.459	0.000	0.00	44.27
65.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.104	0.459	0.000	0.00	2.16
65.00	(4) #20 Dywidag bars	Yes	5.00	0.640	6.70	2.79	1.79	28.104	0.459	0.000	88.34	0.00
70.00	(4) #20 Dywidag bars	Yes	5.00	0.633	6.70	2.79	1.77	28.705	0.472	0.000	89.28	0.00
70.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.705	0.472	0.000	0.00	44.27
70.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.705	0.472	0.000	0.00	2.16
70.00	(4) #20 Dywidag bars	Yes	5.00	0.633	6.70	2.79	1.77	28.705	0.472	0.000	89.28	0.00
70.00	(4) #20 Dywidag bars	Yes	0.00	0.633	6.70	0.00	0.00	28.706	0.479	0.000	0.06	0.00
70.00	(12) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	28.706	0.479	0.000	0.00	0.03
70.00	(6) 3/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	28.706	0.479	0.000	0.00	0.00
70.00	(4) #20 Dywidag bars	Yes	0.00	0.633	6.70	0.00	0.00	28.706	0.479	0.000	0.06	0.00
73.50	(4) #20 Dywidag bars	Yes	3.50	0.629	6.70	1.95	1.23	29.108	0.484	0.000	62.94	0.00
73.50	(12) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	29.108	0.484	0.000	0.00	30.99
73.50	(6) 3/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	29.108	0.484	0.000	0.00	1.51
73.50	(4) #20 Dywidag bars	Yes	3.50	0.629	6.70	1.95	1.23	29.108	0.484	0.000	62.94	0.00
75.00	(4) #20 Dywidag bars	Yes	1.50	0.627	6.70	0.84	0.52	29.277	0.482	0.000	26.99	0.00
75.00	(12) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	29.277	0.482	0.000	0.00	13.25
75.00	(6) 3/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	29.277	0.482	0.000	0.00	0.65
75.00	(4) #20 Dywidag bars	Yes	1.50	0.627	6.70	0.84	0.52	29.277	0.482	0.000	26.99	0.00
75.50	(4) #20 Dywidag bars	Yes	0.50	0.626	6.70	0.28	0.17	29.332	0.485	0.000	9.03	0.00
75.50	(12) 1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	29.332	0.485	0.000	0.00	4.43
75.50	(6) 3/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	29.332	0.485	0.000	0.00	0.22
75.50	(4) #20 Dywidag bars	Yes	0.50	0.626	6.70	0.28	0.17	29.332	0.485	0.000	9.03	0.00
80.00	(4) #20 Dywidag bars	Yes	4.50	0.621	6.70	2.51	1.56	29.821	0.492	0.000	81.90	0.00
80.00	(12) 1 5/8" Coax	Yes	4.50	0.000	0.00	0.00	0.00	29.821	0.492	0.000	0.00	39.85
80.00	(6) 3/8" Coax	Yes	4.50	0.000	0.00	0.00	0.00	29.821	0.492	0.000	0.00	1.94
80.00	(4) #20 Dywidag bars	Yes	4.50	0.621	6.70	2.51	1.56	29.821	0.492	0.000	81.90	0.00
85.00	(4) #20 Dywidag bars	Yes	5.00	0.616	6.70	2.79	1.72	30.343	0.253	0.000	91.80	0.00
85.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.343	0.253	0.000	0.00	44.27
85.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.343	0.253	0.000	0.00	2.16
90.00	(4) #20 Dywidag bars	Yes	5.00	0.611	6.70	2.79	1.70	30.842	0.261	0.000	92.55	0.00
90.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.842	0.261	0.000	0.00	44.27
90.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.842	0.261	0.000	0.00	2.16
95.00	(4) #20 Dywidag bars	Yes	5.00	0.606	6.70	2.79	1.69	31.322	0.270	0.000	93.27	0.00
95.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	31.322	0.270	0.000	0.00	44.27
95.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	31.322	0.270	0.000	0.00	2.16
100.0	(4) #20 Dywidag bars	Yes	5.00	0.602	6.70	2.79	1.68	31.785	0.279	0.000	93.95	0.00
100.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	31.785	0.279	0.000	0.00	44.27
100.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	31.785	0.279	0.000	0.00	2.16
105.0	(4) #20 Dywidag bars	Yes	5.00	0.600	6.70	2.79	1.67	32.231	0.288	0.000	95.02	0.00
105.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	32.231	0.288	0.000	0.00	44.27
105.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	32.231	0.288	0.000	0.00	2.16
110.0	(4) #20 Dywidag bars	Yes	5.00	0.600	6.70	2.79	1.67	32.662	0.299	0.000	96.29	0.00

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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 115.00 mph with No Ice (Reduced DL) 24 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 0.90

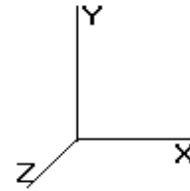
Wind Load Factor : 1.60

110.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	32.662	0.299	0.000	0.00	44.27
110.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	32.662	0.299	0.000	0.00	2.16
110.0	(4) #20 Dywidag bars	Yes	0.00	0.600	6.70	0.00	0.00	32.662	0.304	0.000	0.06	0.00
110.0	(12) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	32.662	0.304	0.000	0.00	0.03
110.0	(6) 3/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	32.662	0.304	0.000	0.00	0.00
115.0	(4) #20 Dywidag bars	Yes	5.00	0.600	6.70	2.79	1.67	33.080	0.310	0.000	97.45	0.00
115.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	33.080	0.310	0.000	0.00	44.25
115.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	33.080	0.310	0.000	0.00	2.16
120.0	(4) #20 Dywidag bars	Yes	5.00	0.600	6.70	2.79	1.67	33.484	0.322	0.000	98.71	0.00
120.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	33.484	0.322	0.000	0.00	44.27
120.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	33.484	0.322	0.000	0.00	2.16
125.0	(4) #20 Dywidag bars	Yes	5.00	0.600	6.70	2.79	1.67	33.877	0.335	0.000	99.87	0.00
125.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	33.877	0.335	0.000	0.00	44.27
125.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	33.877	0.335	0.000	0.00	2.16
128.0	(4) #20 Dywidag bars	Yes	3.00	0.600	6.70	1.67	1.00	34.107	0.346	0.000	60.33	0.00
128.0	(12) 1 5/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	34.107	0.346	0.000	0.00	26.56
128.0	(6) 3/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	34.107	0.346	0.000	0.00	1.29
130.0	(4) #20 Dywidag bars	Yes	2.00	0.600	6.70	1.12	0.67	34.259	0.354	0.000	40.40	0.00
130.0	(12) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	34.259	0.354	0.000	0.00	17.71
130.0	(6) 3/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	34.259	0.354	0.000	0.00	0.86
131.0	(4) #20 Dywidag bars	Yes	1.00	0.600	6.70	0.56	0.34	34.334	0.358	0.000	20.24	0.00
131.0	(12) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	34.334	0.358	0.000	0.00	8.85
131.0	(6) 3/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	34.334	0.358	0.000	0.00	0.43
135.0	(4) #20 Dywidag bars	Yes	1.00	0.000	6.70	0.56	0.00	34.630	0.092	0.000	0.00	0.00
Totals:											3,656.49	1,217.30

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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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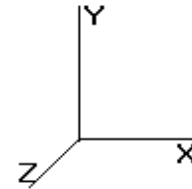
Load Case: 0.9D + 1.6W 115.00 mph with No Ice (Reduced DL) 24 Iterations
 Gust Response Factor : 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 0.90
 Wind Load Factor : 1.60

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	916.83	1,424.48	0.00	0.00
10.00	900.76	1,409.99	0.00	0.00
15.00	884.69	1,481.44	0.00	0.00
20.00	868.61	1,466.95	0.00	0.00
25.00	852.54	1,452.46	0.00	0.00
30.00	837.11	1,437.98	0.00	0.00
31.50	251.71	429.52	0.00	0.00
35.00	605.12	1,343.98	0.00	0.00
35.67	115.57	256.04	0.00	0.00
40.00	1,631.16	1,259.00	0.00	0.00
45.00	890.16	1,311.46	0.00	0.00
50.00	896.17	1,299.39	0.00	0.00
55.00	899.42	1,287.32	0.00	0.00
60.00	900.27	1,275.25	0.00	0.00
65.00	899.00	1,263.18	0.00	0.00
70.00	895.85	1,251.10	0.00	0.00
70.00	0.59	0.83	0.00	0.00
73.50	631.93	1,101.65	0.00	0.00
75.00	268.51	347.66	0.00	0.00
75.50	89.44	115.95	0.00	0.00
80.00	807.42	738.61	0.00	0.00
85.00	798.84	811.51	0.00	0.00
90.00	789.22	801.85	0.00	0.00
95.00	778.42	792.19	0.00	0.00
100.0	766.53	782.53	0.00	0.00
105.0	754.03	772.87	0.00	0.00
110.0	740.81	763.22	0.00	0.00
110.0	0.49	0.51	0.00	0.00
115.0	726.17	690.11	0.00	0.00
120.0	711.65	683.33	0.00	0.00
125.0	695.82	676.09	0.00	0.00
128.0	408.64	535.77	0.00	0.00
130.0	268.75	133.07	0.00	0.00
131.0	1,795.66	890.14	0.00	0.00
135.0	371.53	224.36	0.00	0.00
140.0	450.53	273.93	0.00	0.00
142.0	3,613.72	1,661.39	0.00	0.00
145.0	257.90	129.07	0.00	0.00
150.0	7,446.59	2,928.22	166.33	9,101.68
Totals:	36,418.16	35,504.37	166.33	9,101.68

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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 115.00 mph with No Ice (Reduced DL) 24 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 0.90

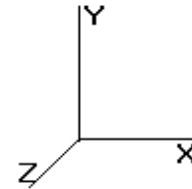
Wind Load Factor : 1.60

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	-35.42	-36.50	-0.15	-3,552.59	-0.01	3,552.59	3,133.66	1,566.83	4,776.46	2,358.91	0.00	0.00	0.589
5.00	-33.85	-35.72	-0.15	-3,370.11	-0.01	3,370.11	3,091.35	1,545.67	4,611.19	2,277.30	0.13	-0.24	0.567
10.00	-32.30	-34.95	-0.15	-3,191.52	-0.01	3,191.52	3,047.99	1,524.00	4,447.17	2,196.29	0.52	-0.49	0.545
15.00	-30.69	-34.17	-0.15	-3,016.79	0.00	3,016.79	3,003.60	1,501.80	4,284.50	2,115.95	1.16	-0.72	0.524
20.00	-29.10	-33.40	-0.15	-2,845.93	0.00	2,845.93	2,958.17	1,479.08	4,123.27	2,036.33	2.04	-0.96	0.502
25.00	-27.53	-32.63	-0.15	-2,678.93	0.00	2,678.93	2,911.70	1,455.85	3,963.58	1,957.46	3.18	-1.19	0.480
30.00	-26.03	-31.83	-0.15	-2,515.76	0.00	2,515.76	2,864.18	1,432.09	3,805.55	1,879.42	4.55	-1.42	0.458
31.50	-25.54	-31.62	-0.15	-2,467.91	0.00	2,467.91	2,849.69	1,424.85	3,758.37	1,856.12	5.01	-1.49	0.451
35.00	-24.16	-31.02	-0.15	-2,357.35	0.00	2,357.35	2,805.48	1,402.74	3,636.10	1,795.73	6.16	-1.65	0.429
35.67	-23.85	-30.94	-0.15	-2,336.57	0.00	2,336.57	2,231.05	1,115.53	2,951.35	1,457.56	6.40	-1.68	0.482
40.00	-22.54	-29.35	-0.15	-2,202.60	0.00	2,202.60	2,201.95	1,100.98	2,850.70	1,407.85	8.01	-1.87	0.459
45.00	-21.15	-28.50	-0.15	-2,055.85	0.00	2,055.85	2,167.39	1,083.69	2,735.30	1,350.86	10.09	-2.09	0.434
50.00	-19.79	-27.63	-0.15	-1,913.36	0.00	1,913.36	2,131.78	1,065.89	2,620.87	1,294.35	12.39	-2.30	0.409
55.00	-18.44	-26.74	-0.15	-1,775.24	0.00	1,775.24	2,095.13	1,047.56	2,507.52	1,238.37	14.92	-2.51	0.384
60.00	-17.12	-25.84	-0.15	-1,641.55	0.00	1,641.55	2,057.44	1,028.72	2,395.35	1,182.97	17.67	-2.72	0.360
65.00	-15.82	-24.94	-0.15	-1,512.34	0.00	1,512.34	2,018.71	1,009.36	2,284.46	1,128.21	20.62	-2.92	0.336
70.00	-14.57	-24.00	-0.15	-1,387.66	0.00	1,387.66	1,978.94	989.47	2,174.96	1,074.13	23.78	-3.11	0.312
70.00	-14.55	-24.02	-0.16	-1,387.58	0.00	1,387.58	1,978.92	989.46	2,174.88	1,074.09	23.78	-3.11	0.312
73.50	-13.44	-23.34	-0.16	-1,303.53	0.00	1,303.53	1,462.63	731.31	1,612.04	796.13	26.11	-3.24	0.334
75.00	-13.10	-23.07	-0.16	-1,268.59	0.00	1,268.59	1,455.06	727.53	1,589.51	785.00	27.13	-3.29	0.326
75.50	-12.95	-22.99	-0.16	-1,257.06	0.00	1,257.06	1,452.51	726.26	1,581.99	781.28	27.48	-3.31	0.323
75.50	-12.95	-22.99	-0.16	-1,257.06	0.00	1,257.06	1,452.51	726.26	1,581.99	781.28	27.48	-3.31	0.538
80.00	-12.17	-22.19	-0.16	-1,153.61	0.00	1,153.61	1,429.11	714.55	1,514.58	747.99	30.68	-3.47	0.500
85.00	-11.31	-21.40	-0.16	-1,042.67	0.00	1,042.67	1,402.12	701.06	1,440.27	711.29	34.47	-3.76	0.459
90.00	-10.47	-20.60	-0.16	-935.69	0.00	935.69	1,374.09	687.04	1,366.68	674.95	38.55	-4.03	0.418
95.00	-9.65	-19.81	-0.16	-832.68	0.00	832.68	1,345.02	672.51	1,293.93	639.02	42.92	-4.29	0.378
100.00	-8.85	-19.02	-0.16	-733.63	0.00	733.63	1,314.91	657.46	1,222.10	603.55	47.54	-4.54	0.338
105.00	-8.07	-18.24	-0.16	-638.52	0.00	638.52	1,283.76	641.88	1,151.31	568.59	52.41	-4.76	0.299
110.00	-7.34	-17.45	-0.16	-547.32	0.00	547.32	1,247.14	623.57	1,077.81	532.29	57.51	-4.97	0.261
110.00	-7.31	-17.46	-0.16	-547.26	0.00	547.26	1,247.10	623.55	1,077.76	532.26	57.51	-4.97	0.261
110.00	-7.31	-17.46	-0.16	-547.26	0.00	547.26	846.53	423.27	735.94	363.45	57.51	-4.97	0.309
115.00	-6.63	-16.70	-0.16	-460.02	0.00	460.02	828.55	414.27	693.31	342.40	62.81	-5.16	0.261
120.00	-5.97	-15.94	-0.16	-376.53	0.00	376.53	809.51	404.76	651.00	321.50	68.31	-5.33	0.216
125.00	-5.34	-15.20	-0.16	-296.81	0.00	296.81	789.44	394.72	609.12	300.82	73.97	-5.49	0.171
128.00	-4.83	-14.74	-0.16	-251.21	0.00	251.21	776.89	388.45	584.25	288.54	77.45	-5.56	0.142
128.00	-4.83	-14.74	-0.16	-251.21	0.00	251.21	776.89	388.45	584.25	288.54	77.45	-5.56	0.878
130.00	-4.70	-14.47	-0.16	-221.72	-0.01	221.72	768.32	384.16	567.78	280.41	79.78	-5.61	0.798
131.00	-3.92	-12.62	-0.16	-207.25	-0.01	207.25	763.98	381.99	559.59	276.36	80.97	-5.75	0.756
135.00	-3.63	-12.26	-0.16	-156.78	-0.01	156.78	746.17	373.08	527.09	260.31	85.99	-6.22	0.608
140.00	-3.35	-11.80	-0.16	-95.49	-0.01	95.49	722.98	361.49	487.14	240.58	92.76	-6.68	0.403
142.00	-2.11	-8.02	-0.17	-71.90	-0.01	71.90	713.41	356.70	471.39	232.80	95.59	-6.83	0.312
145.00	-1.99	-7.75	-0.17	-47.85	-0.02	47.85	694.06	347.03	445.03	219.78	99.92	-6.99	0.221
150.00	0.00	-7.45	-0.17	-9.10	0.00	9.10	659.19	329.60	401.19	198.13	107.31	-7.12	0.046

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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	23 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		

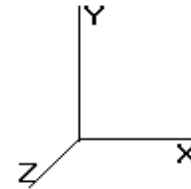
Shaft Segment Forces (Factored)

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	16.990	20.39	95.5	304.3	1,874.9
10.00		1.00	0.70	4.256	4.682	0.000	1.200	* 1.331	5.00	16.727	20.07	94.0	320.1	1,871.4
15.00		1.00	0.70	4.256	4.682	0.000	1.200	* 1.386	5.00	16.435	19.72	92.3	326.8	1,858.8
20.00		1.00	0.70	4.256	4.682	0.000	1.200	* 1.427	5.00	16.130	19.36	90.6	329.5	1,842.1
25.00		1.00	0.70	4.256	4.682	0.000	1.200	* 1.459	5.00	15.819	18.98	88.9	329.8	1,823.1
30.00		1.00	0.70	4.260	4.686	0.000	1.200	* 1.486	5.00	15.504	18.60	87.2	328.5	1,802.6
31.50	Bot - Section 2	1.00	0.71	4.320	4.751	0.000	1.200	* 1.493	1.50	4.597	5.52	26.2	98.6	538.0
35.00		1.00	0.73	4.451	4.897	0.000	1.200	* 1.509	3.50	10.772	12.93	63.3	232.4	1,714.4
35.67	Top - Section 1	1.00	0.73	4.476	4.923	0.000	1.200	* 1.512	0.67	2.046	2.45	12.1	44.5	326.5
40.00	Appertunance(s)	1.00	0.76	4.625	5.087	0.000	1.200	* 1.529	4.33	13.086	15.70	79.9	285.1	1,428.7
45.00		1.00	0.78	4.783	5.261	0.000	1.200	* 1.547	5.00	14.811	17.77	93.5	325.4	1,631.0
50.00		1.00	0.81	4.929	5.422	0.000	1.200	* 1.564	5.00	14.486	17.38	94.3	321.1	1,610.5
55.00		1.00	0.83	5.065	5.572	0.000	1.200	* 1.579	5.00	14.161	16.99	94.7	316.3	1,589.6
60.00		1.00	0.85	5.193	5.712	0.000	1.200	* 1.592	5.00	13.834	16.60	94.8	311.1	1,568.4
65.00		1.00	0.87	5.313	5.844	0.000	1.200	* 1.605	5.00	13.507	16.21	94.7	305.6	1,546.7
70.00		1.00	0.89	5.426	5.969	0.000	1.200	* 1.617	5.00	13.179	15.81	94.4	299.8	1,524.8
70.00	Bot - Section 3	1.00	0.89	5.426	5.969	0.000	1.200	* 1.617	0.00	0.009	0.01	0.1	0.2	1.0
73.50	Top - Section 2	1.00	0.90	5.503	6.053	0.000	1.200	* 1.625	3.50	9.180	11.02	66.7	210.6	1,369.3
75.00		1.00	0.91	5.534	6.088	0.000	1.200	* 1.628	1.50	3.876	4.65	28.3	89.5	420.4
75.50	Reinf. Top	1.00	0.91	5.545	6.099	0.000	1.200	* 1.629	0.50	1.288	1.55	9.4	29.8	140.1
80.00		1.00	0.92	5.637	6.201	0.000	1.200	* 1.639	4.50	11.448	13.74	85.2	263.4	949.7
85.00		1.00	0.94	5.736	6.309	0.000	1.200	* 1.649	5.00	12.407	14.89	93.9	286.2	1,036.5
90.00		1.00	0.95	5.830	6.413	0.000	1.200	* 1.658	5.00	12.077	14.49	92.9	279.5	1,016.9
95.00		1.00	0.97	5.921	6.513	0.000	1.200	* 1.667	5.00	11.747	14.10	91.8	272.7	997.2
100.00		1.00	0.98	6.008	6.609	0.000	1.200	* 1.676	5.00	11.416	13.70	90.5	265.6	977.3
105.00		1.00	1.00	6.093	6.702	0.000	1.200	* 1.684	5.00	11.085	13.30	89.1	258.5	957.2
110.00		1.00	1.01	6.174	6.792	0.000	1.200	* 1.692	5.00	10.753	12.90	87.6	251.2	937.0
110.00	Top - Section 3	1.00	1.01	6.174	6.792	0.000	1.200	* 1.692	0.00	0.007	0.01	0.1	0.2	0.6
115.00		1.00	1.02	6.253	6.879	0.000	1.200	* 1.699	5.00	10.414	12.50	86.0	243.6	832.2
120.00		1.00	1.04	6.330	6.963	0.000	1.200	* 1.707	5.00	10.090	12.11	84.3	236.2	815.5
125.00		1.00	1.05	6.404	7.044	0.000	1.200	* 1.714	5.00	9.757	11.71	82.5	228.5	798.2
128.00	Reinf. Top	1.00	1.06	6.448	7.092	0.000	1.200	* 1.718	3.00	5.694	6.83	48.5	134.3	605.1
130.00		1.00	1.06	6.476	7.124	0.000	1.200	* 1.720	2.00	3.729	4.48	31.9	88.3	177.6
131.00	Appertunance(s)	1.00	1.06	6.490	7.139	0.000	1.200	* 1.722	1.00	1.845	2.21	15.8	43.8	87.9
135.00		1.00	1.07	6.546	7.201	0.000	1.200	* 1.727	4.00	7.247	8.70	62.6	170.3	342.7
140.00		1.00	1.08	6.615	7.276	0.000	1.200	* 1.733	5.00	8.760	10.51	76.5	204.9	411.7
142.00	Appertunance(s)	1.00	1.09	6.642	7.306	0.000	1.200	* 1.736	2.00	3.410	4.09	29.9	80.7	160.7
145.00		1.00	1.09	6.681	7.350	0.000	1.200	* 1.739	3.00	5.016	6.02	44.2	118.1	235.2
150.00	Appertunance(s)	1.00	1.11	6.746	7.421	0.000	1.200	* 1.745	5.00	8.094	9.71	72.1	188.8	376.2
* = Cf Adjusted By Linear Load Ra Effect								Totals:	150.00			2,666.2	8,423.8	38,197.8

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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 23 Iterations

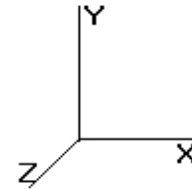
Gust Response Factor : 1.10 Ice Dead Load Factor : 1.00 Wind Importance Factor : 1.00
 Dead Load Factor : 1.20 Ice Importance Factor : 1.00
 Wind Load Factor : 1.00

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)
40.00	Channel Master Type	1	4.625	5.087	1.00	1.00	22.83	0.000	0.000	116.15	0.00	0.00	272.77
131.0	Kathrein 800 10504	6	6.490	7.139	0.78	0.80	16.04	0.000	0.000	114.54	0.00	0.00	608.66
131.0	Kathrein RCU	6	6.490	7.139	0.50	0.80	0.90	0.000	0.000	6.45	0.00	0.00	132.47
131.0	Round T-Arm	3	6.490	7.139	0.67	0.75	26.91	0.000	0.000	192.11	0.00	0.00	1,327.83
142.0	Ericsson KRY 112 144	3	6.642	7.306	0.50	0.80	0.76	0.000	0.000	5.55	0.00	0.00	88.36
142.0	Ericsson AIR 21, 1.3	3	6.642	7.306	0.86	0.80	14.74	0.000	0.000	107.69	0.00	0.00	802.61
142.0	Flat Light Sector Fr	3	6.642	7.306	0.75	0.75	55.58	0.000	0.000	406.06	0.00	0.00	2,009.77
142.0	Ericsson AIR 21, 1.3	3	6.642	7.306	0.85	0.80	14.66	0.000	0.000	107.11	0.00	0.00	797.07
150.0	8' Omni	1	6.797	7.477	1.00	0.75	3.31	0.000	4.000	24.77	0.00	99.09	137.82
150.0	3' Yagi	1	6.785	7.463	1.00	0.75	6.94	0.000	3.000	51.82	0.00	155.47	76.32
150.0	Flat Platform w/ Han	1	6.746	7.421	1.00	1.00	63.42	0.000	0.000	470.61	0.00	0.00	3,374.08
150.0	Powerwave LGP13519	6	6.772	7.449	0.50	0.75	0.84	3.448	2.000	6.24	21.50	12.47	146.74
150.0	Powerwave P65-17-	4	6.772	7.449	0.80	0.75	31.49	0.000	2.000	234.60	0.00	469.19	1,283.19
150.0	KMW AM-X-CD-17-65-	2	6.772	7.449	0.80	0.75	15.56	0.000	2.000	115.93	0.00	231.87	638.02
150.0	Powerwave 7770.00	4	6.772	7.449	0.77	0.75	15.17	0.000	2.000	112.97	0.00	225.94	708.69
150.0	Raycap DC6-48-60-18-	1	6.772	7.449	1.00	0.75	1.89	0.000	2.000	14.09	0.00	28.18	104.52
150.0	Ericsson RRUS-11 800	6	6.772	7.449	0.67	0.75	9.58	0.000	2.000	71.38	0.00	142.75	924.79
150.0	CCI	6	6.772	7.449	0.50	0.75	3.13	0.000	2.000	23.35	0.00	46.70	341.03
										2,181.41			13,774.74

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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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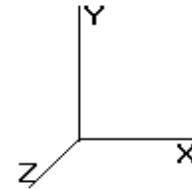
Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	23 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

Linear Appurtenance Segment Forces (Factored)

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	FX (lb)	Dead Load (lb)
5.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	3.83	4.59	4.256	0.350	0.000	21.50	9.42
5.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.350	0.000	0.00	202.85
5.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.350	0.000	0.00	25.53
5.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	3.83	4.59	4.256	0.350	0.000	21.50	9.42
10.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	3.90	4.68	4.256	0.358	0.000	21.92	10.82
10.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.358	0.000	0.00	212.49
10.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.358	0.000	0.00	27.85
10.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	3.90	4.68	4.256	0.358	0.000	21.92	10.82
15.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	3.95	4.74	4.256	0.365	0.000	22.17	11.74
15.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.365	0.000	0.00	218.49
15.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.365	0.000	0.00	29.33
15.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	3.95	4.74	4.256	0.365	0.000	22.17	11.74
15.00	(1) 0.28" RG-6	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.365	0.000	0.00	13.43
20.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	3.98	4.78	4.256	0.374	0.000	22.36	12.43
20.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.374	0.000	0.00	222.93
20.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.374	0.000	0.00	30.44
20.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	3.98	4.78	4.256	0.374	0.000	22.36	12.43
20.00	(1) 0.28" RG-6	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.374	0.000	0.00	14.17
25.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.01	4.81	4.256	0.382	0.000	22.51	13.00
25.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.382	0.000	0.00	226.47
25.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.382	0.000	0.00	31.34
25.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.01	4.81	4.256	0.382	0.000	22.51	13.00
25.00	(1) 0.28" RG-6	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.382	0.000	0.00	14.77
30.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.03	4.84	4.260	0.391	0.000	22.66	13.48
30.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.260	0.391	0.000	0.00	229.43
30.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.260	0.391	0.000	0.00	32.10
30.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.03	4.84	4.260	0.391	0.000	22.66	13.48
30.00	(1) 0.28" RG-6	Yes	5.00	0.000	0.00	0.00	0.00	4.260	0.391	0.000	0.00	15.28
31.50	(4) #20 Dywidag bars	Yes	1.50	1.200	6.70	1.21	1.46	4.320	0.398	0.000	6.92	4.09
31.50	(12) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	4.320	0.398	0.000	0.00	69.23
31.50	(6) 3/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	4.320	0.398	0.000	0.00	9.71
31.50	(4) #20 Dywidag bars	Yes	1.50	1.200	6.70	1.21	1.46	4.320	0.398	0.000	6.92	4.09
31.50	(1) 0.28" RG-6	Yes	1.50	0.000	0.00	0.00	0.00	4.320	0.398	0.000	0.00	4.64
35.00	(4) #20 Dywidag bars	Yes	3.50	1.200	6.70	2.83	3.40	4.451	0.402	0.000	16.64	9.73
35.00	(12) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	4.451	0.402	0.000	0.00	162.24
35.00	(6) 3/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	4.451	0.402	0.000	0.00	22.91
35.00	(4) #20 Dywidag bars	Yes	3.50	1.200	6.70	2.83	3.40	4.451	0.402	0.000	16.64	9.73
35.00	(1) 0.28" RG-6	Yes	3.50	0.000	0.00	0.00	0.00	4.451	0.402	0.000	0.00	11.00
35.67	(4) #20 Dywidag bars	Yes	0.67	1.200	6.70	0.54	0.65	4.476	0.406	0.000	3.21	1.87
35.67	(12) 1 5/8" Coax	Yes	0.67	0.000	0.00	0.00	0.00	4.476	0.406	0.000	0.00	31.13
35.67	(6) 3/8" Coax	Yes	0.67	0.000	0.00	0.00	0.00	4.476	0.406	0.000	0.00	4.40
35.67	(4) #20 Dywidag bars	Yes	0.67	1.200	6.70	0.54	0.65	4.476	0.406	0.000	3.21	1.87
35.67	(1) 0.28" RG-6	Yes	0.67	0.000	0.00	0.00	0.00	4.476	0.406	0.000	0.00	2.11
40.00	(4) #20 Dywidag bars	Yes	4.33	1.200	6.70	3.52	4.23	4.625	0.404	0.000	21.49	12.37
40.00	(12) 1 5/8" Coax	Yes	4.33	0.000	0.00	0.00	0.00	4.625	0.404	0.000	0.00	202.85
40.00	(6) 3/8" Coax	Yes	4.33	0.000	0.00	0.00	0.00	4.625	0.404	0.000	0.00	28.87
40.00	(4) #20 Dywidag bars	Yes	4.33	1.200	6.70	3.52	4.23	4.625	0.404	0.000	21.49	12.37
40.00	(1) 0.28" RG-6	Yes	4.33	0.000	0.00	0.00	0.00	4.625	0.404	0.000	0.00	13.96
45.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.08	4.90	4.783	0.413	0.000	25.76	14.62
45.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.783	0.413	0.000	0.00	236.25
45.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.783	0.413	0.000	0.00	33.87

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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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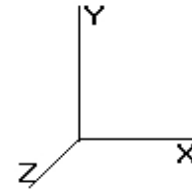
Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	23 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

45.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.08	4.90	4.783	0.413	0.000	25.76	14.62
50.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.09	4.91	4.929	0.424	0.000	26.64	14.94
50.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.929	0.424	0.000	0.00	238.08
50.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.929	0.424	0.000	0.00	34.35
50.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.09	4.91	4.929	0.424	0.000	26.64	14.94
55.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.11	4.93	5.065	0.435	0.000	27.46	15.22
55.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.065	0.435	0.000	0.00	239.75
55.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.065	0.435	0.000	0.00	34.79
55.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.11	4.93	5.065	0.435	0.000	27.46	15.22
60.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.12	4.94	5.193	0.446	0.000	28.23	15.49
60.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.193	0.446	0.000	0.00	241.29
60.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.193	0.446	0.000	0.00	35.20
60.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.12	4.94	5.193	0.446	0.000	28.23	15.49
65.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.13	4.96	5.313	0.459	0.000	28.96	15.74
65.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.313	0.459	0.000	0.00	242.73
65.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.313	0.459	0.000	0.00	35.58
65.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.13	4.96	5.313	0.459	0.000	28.96	15.74
70.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.14	4.97	5.426	0.472	0.000	29.65	15.98
70.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.426	0.472	0.000	0.00	244.06
70.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.426	0.472	0.000	0.00	35.93
70.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.14	4.97	5.426	0.472	0.000	29.65	15.98
70.00	(4) #20 Dywidag bars	Yes	0.00	1.200	6.70	0.00	0.00	5.426	0.479	0.000	0.02	0.01
70.00	(12) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	5.426	0.479	0.000	0.00	0.16
70.00	(6) 3/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	5.426	0.479	0.000	0.00	0.02
70.00	(4) #20 Dywidag bars	Yes	0.00	1.200	6.70	0.00	0.00	5.426	0.479	0.000	0.02	0.01
73.50	(4) #20 Dywidag bars	Yes	3.50	1.200	6.70	2.90	3.48	5.503	0.484	0.000	21.08	11.29
73.50	(12) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	5.503	0.484	0.000	0.00	171.47
73.50	(6) 3/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	5.503	0.484	0.000	0.00	25.32
73.50	(4) #20 Dywidag bars	Yes	3.50	1.200	6.70	2.90	3.48	5.503	0.484	0.000	21.08	11.29
75.00	(4) #20 Dywidag bars	Yes	1.50	1.200	6.70	1.24	1.49	5.534	0.482	0.000	9.07	4.85
75.00	(12) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	5.534	0.482	0.000	0.00	73.43
75.00	(6) 3/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	5.534	0.482	0.000	0.00	10.86
75.00	(4) #20 Dywidag bars	Yes	1.50	1.200	6.70	1.24	1.49	5.534	0.482	0.000	9.07	4.85
75.50	(4) #20 Dywidag bars	Yes	0.50	1.200	6.70	0.41	0.50	5.545	0.485	0.000	3.04	1.62
75.50	(12) 1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	5.545	0.485	0.000	0.00	24.54
75.50	(6) 3/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	5.545	0.485	0.000	0.00	3.63
75.50	(4) #20 Dywidag bars	Yes	0.50	1.200	6.70	0.41	0.50	5.545	0.485	0.000	3.04	1.62
80.00	(4) #20 Dywidag bars	Yes	4.50	1.200	6.70	3.74	4.49	5.637	0.492	0.000	27.84	14.77
80.00	(12) 1 5/8" Coax	Yes	4.50	0.000	0.00	0.00	0.00	5.637	0.492	0.000	0.00	221.85
80.00	(6) 3/8" Coax	Yes	4.50	0.000	0.00	0.00	0.00	5.637	0.492	0.000	0.00	32.93
80.00	(4) #20 Dywidag bars	Yes	4.50	1.200	6.70	3.74	4.49	5.637	0.492	0.000	27.84	14.77
85.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.17	5.00	5.736	0.253	0.000	31.54	16.61
85.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.736	0.253	0.000	0.00	247.63
85.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.736	0.253	0.000	0.00	36.89
90.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.17	5.01	5.830	0.261	0.000	32.12	16.80
90.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.830	0.261	0.000	0.00	248.69
90.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.830	0.261	0.000	0.00	37.18
95.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.18	5.02	5.921	0.270	0.000	32.68	16.98
95.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.921	0.270	0.000	0.00	249.70
95.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.921	0.270	0.000	0.00	37.46
100.0	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.19	5.03	6.008	0.279	0.000	33.22	17.16
100.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.008	0.279	0.000	0.00	250.67
100.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.008	0.279	0.000	0.00	37.72
105.0	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.20	5.03	6.093	0.288	0.000	33.74	17.32
105.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.093	0.288	0.000	0.00	251.60
105.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.093	0.288	0.000	0.00	37.97
110.0	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.20	5.04	6.174	0.299	0.000	34.24	17.49

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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 23 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

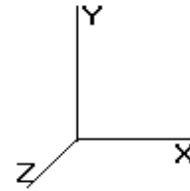
Wind Load Factor : 1.00

110.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.174	0.299	0.000	0.00	252.48
110.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.174	0.299	0.000	0.00	38.21
110.0	(4) #20 Dywidag bars	Yes	0.00	1.200	6.70	0.00	0.00	6.174	0.304	0.000	0.02	0.01
110.0	(12) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	6.174	0.304	0.000	0.00	0.17
110.0	(6) 3/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	6.174	0.304	0.000	0.00	0.03
115.0	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.21	5.05	6.253	0.310	0.000	34.71	17.63
115.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.253	0.310	0.000	0.00	253.17
115.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.253	0.310	0.000	0.00	38.42
120.0	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.21	5.06	6.330	0.322	0.000	35.21	17.79
120.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.330	0.322	0.000	0.00	254.16
120.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.330	0.322	0.000	0.00	38.67
125.0	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	4.22	5.06	6.404	0.335	0.000	35.67	17.94
125.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.404	0.335	0.000	0.00	254.95
125.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.404	0.335	0.000	0.00	38.89
128.0	(4) #20 Dywidag bars	Yes	3.00	1.200	6.70	2.53	3.04	6.448	0.346	0.000	21.57	10.81
128.0	(12) 1 5/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	6.448	0.346	0.000	0.00	153.25
128.0	(6) 3/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	6.448	0.346	0.000	0.00	23.41
130.0	(4) #20 Dywidag bars	Yes	2.00	1.200	6.70	1.69	2.03	6.476	0.354	0.000	14.45	7.23
130.0	(12) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.476	0.354	0.000	0.00	102.28
130.0	(6) 3/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.476	0.354	0.000	0.00	15.64
131.0	(4) #20 Dywidag bars	Yes	1.00	1.200	6.70	0.85	1.01	6.490	0.358	0.000	7.24	3.62
131.0	(12) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.490	0.358	0.000	0.00	51.17
131.0	(6) 3/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.490	0.358	0.000	0.00	7.83
135.0	(4) #20 Dywidag bars	Yes	1.00	0.000	6.70	0.85	0.00	6.546	0.092	0.000	0.00	3.64
Totals:										1,164.67	7,912.31	

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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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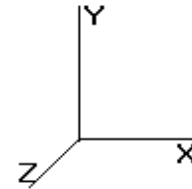
Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	23 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

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	138.45	2,166.25	0.00	0.00
10.00	137.80	2,177.52	0.00	0.00
15.00	136.68	2,302.03	0.00	0.00
20.00	135.35	2,293.04	0.00	0.00
25.00	133.90	2,280.22	0.00	0.00
30.00	132.49	2,264.88	0.00	0.00
31.50	40.05	677.44	0.00	0.00
35.00	96.57	2,040.83	0.00	0.00
35.67	18.50	389.09	0.00	0.00
40.00	239.02	2,109.16	0.00	0.00
45.00	145.03	2,088.84	0.00	0.00
50.00	147.53	2,071.34	0.00	0.00
55.00	149.60	2,053.14	0.00	0.00
60.00	151.28	2,034.34	0.00	0.00
65.00	152.64	2,015.04	0.00	0.00
70.00	153.69	1,995.29	0.00	0.00
70.00	0.10	1.33	0.00	0.00
73.50	108.83	1,699.60	0.00	0.00
75.00	46.46	561.84	0.00	0.00
75.50	15.50	187.40	0.00	0.00
80.00	140.87	1,376.64	0.00	0.00
85.00	125.48	1,496.09	0.00	0.00
90.00	125.06	1,478.08	0.00	0.00
95.00	124.49	1,459.81	0.00	0.00
100.0	123.76	1,441.32	0.00	0.00
105.0	122.89	1,422.62	0.00	0.00
110.0	121.88	1,403.73	0.00	0.00
110.0	0.08	0.93	0.00	0.00
115.0	120.67	1,299.82	0.00	0.00
120.0	119.51	1,284.67	0.00	0.00
125.0	118.15	1,268.51	0.00	0.00
128.0	70.03	887.68	0.00	0.00
130.0	46.33	366.12	0.00	0.00
131.0	336.15	2,251.16	0.00	0.00
135.0	62.62	473.10	0.00	0.00
140.0	76.49	570.17	0.00	0.00
142.0	656.30	3,921.90	0.00	0.00
145.0	44.23	290.22	0.00	0.00
150.0	1,197.83	8,203.04	21.50	1,411.65
Totals:	6,012.29	64,304.24	21.50	1,411.65

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (in/ft)

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



Load Case: 1.2D + 1.0Di + 1.0Wi 50.00 mph with 0.75 in Radial Ice 23 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

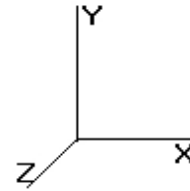
Calculated Forces

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	-64.30	-6.04	-0.02	-618.77	0.00	618.77	3,133.66	1,566.83	4,776.46	2,358.91	0.00	0.00	0.112
5.00	-62.13	-5.94	-0.02	-588.59	0.00	588.59	3,091.35	1,545.67	4,611.19	2,277.30	0.02	-0.04	0.109
10.00	-59.95	-5.85	-0.02	-558.87	0.00	558.87	3,047.99	1,524.00	4,447.17	2,196.29	0.09	-0.08	0.105
15.00	-57.64	-5.75	-0.02	-529.64	0.00	529.64	3,003.60	1,501.80	4,284.50	2,115.95	0.20	-0.13	0.101
20.00	-55.35	-5.65	-0.02	-500.90	0.00	500.90	2,958.17	1,479.08	4,123.27	2,036.33	0.36	-0.17	0.097
25.00	-53.06	-5.54	-0.02	-472.67	0.00	472.67	2,911.70	1,455.85	3,963.58	1,957.46	0.56	-0.21	0.093
30.00	-50.80	-5.42	-0.02	-444.95	0.00	444.95	2,864.18	1,432.09	3,805.55	1,879.42	0.80	-0.25	0.089
31.50	-50.12	-5.40	-0.02	-436.80	0.00	436.80	2,849.69	1,424.85	3,758.37	1,856.12	0.88	-0.26	0.088
35.00	-48.08	-5.31	-0.02	-417.92	0.00	417.92	2,805.48	1,402.74	3,636.10	1,795.73	1.08	-0.29	0.084
35.67	-47.68	-5.30	-0.02	-414.37	0.00	414.37	2,231.05	1,115.53	2,951.35	1,457.56	1.12	-0.30	0.094
40.00	-45.57	-5.08	-0.02	-391.41	0.00	391.41	2,201.95	1,100.98	2,850.70	1,407.85	1.40	-0.33	0.090
45.00	-43.48	-4.95	-0.02	-366.00	0.00	366.00	2,167.39	1,083.69	2,735.30	1,350.86	1.77	-0.37	0.085
50.00	-41.41	-4.82	-0.02	-341.24	0.00	341.24	2,131.78	1,065.89	2,620.87	1,294.35	2.18	-0.41	0.081
55.00	-39.35	-4.68	-0.02	-317.15	0.00	317.15	2,095.13	1,047.56	2,507.52	1,238.37	2.62	-0.44	0.076
60.00	-37.32	-4.53	-0.02	-293.76	0.00	293.76	2,057.44	1,028.72	2,395.35	1,182.97	3.11	-0.48	0.071
65.00	-35.30	-4.39	-0.02	-271.08	0.00	271.08	2,018.71	1,009.36	2,284.46	1,128.21	3.63	-0.52	0.067
70.00	-33.31	-4.22	-0.02	-249.15	0.00	249.15	1,978.94	989.47	2,174.96	1,074.13	4.19	-0.55	0.062
70.00	-33.30	-4.23	-0.02	-249.14	0.00	249.14	1,978.92	989.46	2,174.88	1,074.09	4.19	-0.55	0.062
73.50	-31.60	-4.11	-0.02	-234.33	0.00	234.33	1,462.63	731.31	1,612.04	796.13	4.60	-0.57	0.067
75.00	-31.04	-4.07	-0.02	-228.18	0.00	228.18	1,455.06	727.53	1,589.51	785.00	4.78	-0.58	0.065
75.50	-30.85	-4.06	-0.02	-226.14	0.00	226.14	1,452.51	726.26	1,581.99	781.28	4.85	-0.59	0.065
75.50	-30.85	-4.06	-0.02	-226.14	0.00	226.14	1,452.51	726.26	1,581.99	781.28	4.85	-0.59	0.107
80.00	-29.48	-3.92	-0.02	-207.89	0.00	207.89	1,429.11	714.55	1,514.58	747.99	5.41	-0.62	0.100
85.00	-27.98	-3.80	-0.02	-188.28	0.00	188.28	1,402.12	701.06	1,440.27	711.29	6.09	-0.67	0.092
90.00	-26.50	-3.68	-0.02	-169.25	0.00	169.25	1,374.09	687.04	1,366.68	674.95	6.81	-0.72	0.084
95.00	-25.04	-3.56	-0.02	-150.83	0.00	150.83	1,345.02	672.51	1,293.93	639.02	7.59	-0.76	0.077
100.00	-23.60	-3.43	-0.02	-133.03	0.00	133.03	1,314.91	657.46	1,222.10	603.55	8.41	-0.81	0.069
105.00	-22.17	-3.31	-0.02	-115.86	0.00	115.86	1,283.76	641.88	1,151.31	568.59	9.28	-0.85	0.062
110.00	-20.77	-3.17	-0.02	-99.32	0.00	99.32	1,247.14	623.57	1,077.81	532.29	10.19	-0.89	0.054
110.00	-20.77	-3.18	-0.02	-99.31	0.00	99.31	1,247.10	623.55	1,077.76	532.26	10.19	-0.89	0.054
110.00	-20.77	-3.18	-0.02	-99.31	0.00	99.31	846.53	423.27	735.94	363.45	10.19	-0.89	0.065
115.00	-19.47	-3.05	-0.02	-83.44	0.00	83.44	828.55	414.27	693.31	342.40	11.14	-0.92	0.056
120.00	-18.19	-2.92	-0.02	-68.21	0.00	68.21	809.51	404.76	651.00	321.50	12.12	-0.95	0.047
125.00	-16.92	-2.78	-0.02	-53.63	0.00	53.63	789.44	394.72	609.12	300.82	13.14	-0.98	0.038
128.00	-16.03	-2.70	-0.02	-45.29	0.00	45.29	776.89	388.45	584.25	288.54	13.76	-0.99	0.032
128.00	-16.03	-2.70	-0.02	-45.29	0.00	45.29	776.89	388.45	584.25	288.54	13.76	-0.99	0.178
130.00	-15.67	-2.65	-0.02	-39.89	0.00	39.89	768.32	384.16	567.78	280.41	14.18	-1.00	0.163
131.00	-13.42	-2.29	-0.02	-37.24	0.00	37.24	763.98	381.99	559.59	276.36	14.39	-1.03	0.152
135.00	-12.94	-2.24	-0.02	-28.08	0.00	28.08	746.17	373.08	527.09	260.31	15.29	-1.11	0.125
140.00	-12.37	-2.16	-0.02	-16.90	0.00	16.90	722.98	361.49	487.14	240.58	16.50	-1.20	0.087
142.00	-8.46	-1.42	-0.02	-12.58	0.00	12.58	713.41	356.70	471.39	232.80	17.01	-1.22	0.066
145.00	-8.17	-1.38	-0.02	-8.30	0.00	8.30	694.06	347.03	445.03	219.78	17.78	-1.25	0.050
150.00	0.00	-1.20	-0.02	-1.41	0.00	1.41	659.19	329.60	401.19	198.13	19.10	-1.27	0.007

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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 + 1.0E	Dead Load with Seismic	0 Iterations
Gust Response Factor : 1.10	Sds : 0.29	Ss : 0.27
Dead Load Factor : 1.20	Seismic Load Factor : 1.00	Sd1 : 0.09
Wind Load Factor : 0.00	Structure Frequency : 0.2385	SA : 0.02
	Seismic Importance Factor : 1.00	

Total Segment Forces (Factored)

R : 1.50

Seg Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)
0.00		0.00	0.00	0.00	0.00	0.00
5.00		752.19	0.00	0.03	0.02	30.07
10.00		736.10	0.01	0.05	0.03	38.56
15.00		720.00	0.02	0.06	0.04	41.70
20.00		703.90	0.03	0.07	0.04	42.69
25.00		687.81	0.05	0.07	0.04	42.86
30.00		671.71	0.08	0.07	0.04	42.89
31.50	Bot - Section 2	198.81	0.08	0.07	0.04	12.79
35.00		845.70	0.10	0.07	0.04	55.52
35.67	Top - Section 1	160.40	0.11	0.07	0.04	10.57
40.00	Appertunance(s)	495.93	0.13	0.07	0.03	33.62
45.00		531.29	0.17	0.07	0.03	37.16
50.00		517.87	0.21	0.06	0.02	36.97
55.00		504.46	0.25	0.05	0.02	35.71
60.00		491.05	0.30	0.04	0.01	32.35
65.00		477.63	0.35	0.03	0.01	25.40
70.00		464.22	0.41	0.01	0.01	13.45
70.00	Bot - Section 3	0.31	0.41	0.01	0.01	0.01
73.50	Top - Section 2	575.93	0.45	0.00	0.01	3.02
75.00		109.13	0.47	-0.01	0.01	-0.64
75.50	Reinf. Top	36.24	0.48	-0.01	0.01	-0.35
80.00		321.37	0.54	-0.03	0.01	-13.31
85.00		346.89	0.61	-0.06	0.02	-23.36
90.00		336.16	0.68	-0.08	0.03	-27.28
95.00		325.42	0.76	-0.10	0.04	-27.57
100.0		314.69	0.84	-0.12	0.07	-25.18
105.0		303.96	0.93	-0.12	0.10	-20.70
110.0		293.23	1.02	-0.11	0.14	-14.51
110.0	Top - Section 3	0.19	1.02	-0.11	0.14	-0.01
115.0		212.37	1.11	-0.06	0.19	-5.14
120.0		204.47	1.21	0.01	0.26	1.59
125.0		196.42	1.31	0.14	0.35	9.18
128.0	Reinf. Top	113.99	1.38	0.24	0.41	8.38
130.0		74.38	1.42	0.32	0.45	6.90
131.0	Appertunance(s)	2071.71	1.44	0.37	0.48	213.18
135.0		143.62	1.53	0.58	0.58	21.01
140.0		172.28	1.65	0.93	0.73	35.73
142.0	Appertunance(s)	2133.46	1.69	1.10	0.81	499.37
145.0		97.57	1.77	1.39	0.92	26.97
150.0	Appertunance(s)	3177.18	1.89	1.98	1.14	1123.41
	Totals:	20,520.05				2,323.02

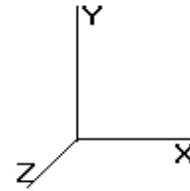
Total Wind : 36,418.2

Seismic Base Shear Is Less Than 50% Of Wind Force - Analysis Not Required

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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 + 1.0E	Dead Load with Seismic (Reduced DL)	0 Iterations
Gust Response Factor : 1.10	Sds : 0.29	Ss : 0.27
Dead Load Factor : 0.90	Seismic Load Factor : 1.00	Sd1 : 0.09
Wind Load Factor : 0.00	Structure Frequency : 0.2385	SA : 0.02
		Seismic Importance Factor : 1.00

Total Segment Forces (Factored)

R : 1.50

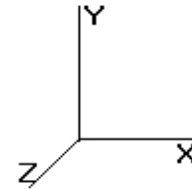
Seg Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)
0.00		0.00	0.00	0.00	0.00	0.00
5.00		752.19	0.00	0.03	0.02	30.07
10.00		736.10	0.01	0.05	0.03	38.56
15.00		720.00	0.02	0.06	0.04	41.70
20.00		703.90	0.03	0.07	0.04	42.69
25.00		687.81	0.05	0.07	0.04	42.86
30.00		671.71	0.08	0.07	0.04	42.89
31.50	Bot - Section 2	198.81	0.08	0.07	0.04	12.79
35.00		845.70	0.10	0.07	0.04	55.52
35.67	Top - Section 1	160.40	0.11	0.07	0.04	10.57
40.00	Appertunance(s)	495.93	0.13	0.07	0.03	33.62
45.00		531.29	0.17	0.07	0.03	37.16
50.00		517.87	0.21	0.06	0.02	36.97
55.00		504.46	0.25	0.05	0.02	35.71
60.00		491.05	0.30	0.04	0.01	32.35
65.00		477.63	0.35	0.03	0.01	25.40
70.00		464.22	0.41	0.01	0.01	13.45
70.00	Bot - Section 3	0.31	0.41	0.01	0.01	0.01
73.50	Top - Section 2	575.93	0.45	0.00	0.01	3.02
75.00		109.13	0.47	-0.01	0.01	-0.64
75.50	Reinf. Top	36.24	0.48	-0.01	0.01	-0.35
80.00		321.37	0.54	-0.03	0.01	-13.31
85.00		346.89	0.61	-0.06	0.02	-23.36
90.00		336.16	0.68	-0.08	0.03	-27.28
95.00		325.42	0.76	-0.10	0.04	-27.57
100.0		314.69	0.84	-0.12	0.07	-25.18
105.0		303.96	0.93	-0.12	0.10	-20.70
110.0		293.23	1.02	-0.11	0.14	-14.51
110.0	Top - Section 3	0.19	1.02	-0.11	0.14	-0.01
115.0		212.37	1.11	-0.06	0.19	-5.14
120.0		204.47	1.21	0.01	0.26	1.59
125.0		196.42	1.31	0.14	0.35	9.18
128.0	Reinf. Top	113.99	1.38	0.24	0.41	8.38
130.0		74.38	1.42	0.32	0.45	6.90
131.0	Appertunance(s)	2071.71	1.44	0.37	0.48	213.18
135.0		143.62	1.53	0.58	0.58	21.01
140.0		172.28	1.65	0.93	0.73	35.73
142.0	Appertunance(s)	2133.46	1.69	1.10	0.81	499.37
145.0		97.57	1.77	1.39	0.92	26.97
150.0	Appertunance(s)	3177.18	1.89	1.98	1.14	1123.41
	Totals:	20,520.05				2,323.02

Total Wind : 36,418.2

Seismic Base Shear Is Less Than 50% Of Wind Force - Analysis Not Required

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (in/ft)

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



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

Shaft Segment Forces (Factored)

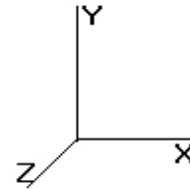
Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	6.129	6.742	161.88	1.000	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	6.129	6.742	158.49	1.200	* 0.000	5.00	15.955	19.15	129.1	0.0	1,420.2
10.00		1.00	0.70	6.129	6.742	155.10	1.200	* 0.000	5.00	15.617	18.74	126.3	0.0	1,404.1
15.00		1.00	0.70	6.129	6.742	151.70	1.200	* 0.000	5.00	15.279	18.34	123.6	0.0	1,388.0
20.00		1.00	0.70	6.129	6.742	148.31	1.200	* 0.000	5.00	14.942	17.93	120.9	0.0	1,371.9
25.00		1.00	0.70	6.129	6.742	144.92	1.200	* 0.000	5.00	14.604	17.52	118.1	0.0	1,355.8
30.00		1.00	0.70	6.134	6.747	141.58	1.200	* 0.000	5.00	14.266	17.12	115.5	0.0	1,339.7
31.50	Bot - Section 2	1.00	0.71	6.220	6.842	141.55	1.200	* 0.000	1.50	4.223	5.07	34.7	0.0	399.7
35.00		1.00	0.73	6.410	7.051	141.27	1.200	* 0.000	3.50	9.893	11.87	83.7	0.0	1,312.9
35.67	Top - Section 1	1.00	0.73	6.445	7.089	141.18	1.200	* 0.000	0.67	1.877	2.25	16.0	0.0	249.9
40.00	Appertunance(s)	1.00	0.76	6.659	7.325	143.27	1.200	* 0.000	4.33	11.982	14.38	105.3	0.0	1,049.4
45.00		1.00	0.78	6.887	7.576	142.11	1.200	* 0.000	5.00	13.521	16.23	122.9	0.0	1,199.3
50.00		1.00	0.81	7.098	7.807	140.61	1.200	* 0.000	5.00	13.183	15.82	123.5	0.0	1,185.9
55.00		1.00	0.83	7.294	8.023	138.83	1.200	* 0.000	5.00	12.845	15.41	123.7	0.0	1,172.5
60.00		1.00	0.85	7.477	8.225	136.82	1.200	* 0.000	5.00	12.507	15.01	123.4	0.0	1,159.0
65.00		1.00	0.87	7.650	8.415	134.61	1.200	* 0.000	5.00	12.169	14.60	122.9	0.0	1,145.6
70.00		1.00	0.89	7.814	8.595	132.21	1.200	* 0.000	5.00	11.831	14.20	122.0	0.0	1,132.2
70.00	Bot - Section 3	1.00	0.89	7.814	8.595	132.21	1.200	* 0.000	0.00	0.008	0.01	0.1	0.0	0.8
73.50	Top - Section 2	1.00	0.90	7.924	8.716	130.43	1.200	* 0.000	3.50	8.232	9.88	86.1	0.0	1,043.5
75.00		1.00	0.91	7.969	8.766	132.12	1.200	* 0.000	1.50	3.469	4.16	36.5	0.0	309.1
75.50	Reinf. Top	1.00	0.91	7.985	8.783	131.85	1.200	* 0.000	0.50	1.152	1.38	12.1	0.0	103.0
80.00		1.00	0.92	8.118	8.930	129.43	1.200	* 0.000	4.50	10.219	12.26	109.5	0.0	622.0
85.00		1.00	0.94	8.260	9.086	126.62	1.200	* 0.000	5.00	11.033	13.24	120.3	0.0	680.9
90.00		1.00	0.95	8.396	9.235	123.69	1.200	* 0.000	5.00	10.695	12.83	118.5	0.0	670.2
95.00		1.00	0.97	8.526	9.379	120.64	1.200	* 0.000	5.00	10.357	12.43	116.6	0.0	659.4
100.00		1.00	0.98	8.652	9.517	117.50	1.200	* 0.000	5.00	10.019	12.02	114.4	0.0	648.7
105.00		1.00	1.00	8.774	9.651	114.26	1.200	* 0.000	5.00	9.681	11.62	112.1	0.0	638.0
110.00		1.00	1.01	8.891	9.780	110.94	1.200	* 0.000	5.00	9.343	11.21	109.7	0.0	627.2
110.00	Top - Section 3	1.00	1.01	8.891	9.780	110.94	1.200	* 0.000	0.00	0.006	0.01	0.1	0.0	0.4
115.00		1.00	1.02	9.005	9.905	107.53	1.200	* 0.000	5.00	8.999	10.80	107.0	0.0	546.1
120.00		1.00	1.04	9.115	10.02	104.05	1.200	* 0.000	5.00	8.667	10.40	104.3	0.0	538.5
125.00		1.00	1.05	9.222	10.14	100.49	1.200	* 0.000	5.00	8.329	10.00	101.4	0.0	530.4
128.00	Reinf. Top	1.00	1.06	9.284	10.21	98.335	1.200	* 0.000	3.00	4.835	5.80	59.3	0.0	448.0
130.00		1.00	1.06	9.326	10.25	96.878	1.200	* 0.000	2.00	3.156	3.79	38.8	0.0	74.4
131.00	Appertunance(s)	1.00	1.06	9.346	10.28	96.146	1.200	* 0.000	1.00	1.558	1.87	19.2	0.0	36.7
135.00		1.00	1.07	9.427	10.36	93.194	1.000	0.000	4.00	6.096	6.10	63.2	0.0	143.6
140.00		1.00	1.08	9.525	10.47	89.449	1.000	0.000	5.00	7.315	7.32	76.6	0.0	172.3
142.00	Appertunance(s)	1.00	1.09	9.564	10.52	87.935	1.000	0.000	2.00	2.832	2.83	29.8	0.0	66.7
145.00		1.00	1.09	9.621	10.58	85.647	1.000	0.000	3.00	4.146	4.15	43.9	0.0	97.6
150.00	Appertunance(s)	1.00	1.11	9.715	10.68	81.790	1.000	0.000	5.00	6.639	6.64	71.0	0.0	156.2
								Totals:	450.00			76,198.4	0.0	82,635.9

* = Cf Adjusted By Linear Load Ra Effect

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (in/ft)

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

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

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 1.00

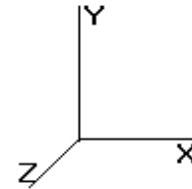
Wind Load Factor : 1.00

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)
40.00	Channel Master Type	1	6.659	7.325	1.00	1.00	20.19	0.000	0.000	147.90	0.00	0.00	126.00
131.0	Kathrein 800 10504	6	9.346	10.281	0.78	0.80	12.50	0.000	0.000	128.56	0.00	0.00	105.60
131.0	Kathrein RCU	6	9.346	10.281	0.50	0.80	0.38	0.000	0.000	3.95	0.00	0.00	60.00
131.0	Round T-Arm	3	9.346	10.281	0.67	0.75	14.62	0.000	0.000	150.33	0.00	0.00	750.00
142.0	Ericsson KRY 112 144	3	9.564	10.520	0.50	0.80	0.49	0.000	0.000	5.18	0.00	0.00	33.00
142.0	Ericsson AIR 21, 1.3	3	9.564	10.520	0.86	0.80	12.49	0.000	0.000	131.37	0.00	0.00	249.00
142.0	Flat Light Sector Fr	3	9.564	10.520	0.75	0.75	30.21	0.000	0.000	317.78	0.00	0.00	1,200.00
142.0	Ericsson AIR 21, 1.3	3	9.564	10.520	0.85	0.80	12.42	0.000	0.000	130.70	0.00	0.00	244.50
150.0	8' Omni	1	9.788	10.767	1.00	0.75	1.80	0.000	4.000	19.38	0.00	77.52	25.00
150.0	3' Yagi	1	9.770	10.747	1.00	0.75	2.24	0.000	3.000	24.02	0.00	72.06	10.00
150.0	Flat Platform w/ Han	1	9.715	10.686	1.00	1.00	42.40	0.000	0.000	453.10	0.00	0.00	2,000.00
150.0	Powerwave LGP13519	6	9.752	10.727	0.50	0.75	0.76	3.448	2.000	8.21	28.30	16.41	31.80
150.0	Powerwave P65-17-	4	9.752	10.727	0.80	0.75	27.53	0.000	2.000	295.29	0.00	590.58	236.00
150.0	KMW AM-X-CD-17-65-	2	9.752	10.727	0.80	0.75	13.57	0.000	2.000	145.58	0.00	291.17	119.00
150.0	Powerwave 7770.00	4	9.752	10.727	0.77	0.75	12.73	0.000	2.000	136.53	0.00	273.07	140.00
150.0	Raycap DC6-48-60-18-	1	9.752	10.727	1.00	0.75	0.83	0.000	2.000	8.93	0.00	17.86	20.00
150.0	Ericsson RRUS-11 800	6	9.752	10.727	0.67	0.75	7.60	0.000	2.000	81.50	0.00	163.00	324.00
150.0	CCI	6	9.752	10.727	0.50	0.75	2.18	0.000	2.000	23.41	0.00	46.82	115.20
										2,211.71			5,789.10

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (in/ft)

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



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

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 1.00

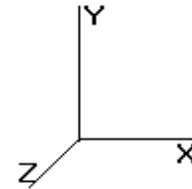
Wind Load Factor : 1.00

Linear Appurtenance Segment Forces (Factored)

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	FX (lb)	Dead Load (lb)
5.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	6.129	0.350	0.000	22.58	0.00
5.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.350	0.000	0.00	49.19
5.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.350	0.000	0.00	2.40
5.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	6.129	0.350	0.000	22.58	0.00
10.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	6.129	0.358	0.000	22.58	0.00
10.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.358	0.000	0.00	49.19
10.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.358	0.000	0.00	2.40
10.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	6.129	0.358	0.000	22.58	0.00
15.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	6.129	0.365	0.000	22.58	0.00
15.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.365	0.000	0.00	49.19
15.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.365	0.000	0.00	2.40
15.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	6.129	0.365	0.000	22.58	0.00
15.00	(1) 0.28" RG-6	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.365	0.000	0.00	0.14
20.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	6.129	0.374	0.000	22.58	0.00
20.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.374	0.000	0.00	49.19
20.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.374	0.000	0.00	2.40
20.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	6.129	0.374	0.000	22.58	0.00
20.00	(1) 0.28" RG-6	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.374	0.000	0.00	0.14
25.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	6.129	0.382	0.000	22.58	0.00
25.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.382	0.000	0.00	49.19
25.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.382	0.000	0.00	2.40
25.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	6.129	0.382	0.000	22.58	0.00
25.00	(1) 0.28" RG-6	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.382	0.000	0.00	0.14
30.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	6.134	0.391	0.000	22.60	0.00
30.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.134	0.391	0.000	0.00	49.19
30.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.134	0.391	0.000	0.00	2.40
30.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	6.134	0.391	0.000	22.60	0.00
30.00	(1) 0.28" RG-6	Yes	5.00	0.000	0.00	0.00	0.00	6.134	0.391	0.000	0.00	0.14
31.50	(4) #20 Dywidag bars	Yes	1.50	1.200	6.70	0.84	1.01	6.220	0.398	0.000	6.89	0.00
31.50	(12) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	6.220	0.398	0.000	0.00	14.79
31.50	(6) 3/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	6.220	0.398	0.000	0.00	0.72
31.50	(4) #20 Dywidag bars	Yes	1.50	1.200	6.70	0.84	1.01	6.220	0.398	0.000	6.89	0.00
31.50	(1) 0.28" RG-6	Yes	1.50	0.000	0.00	0.00	0.00	6.220	0.398	0.000	0.00	0.04
35.00	(4) #20 Dywidag bars	Yes	3.50	1.200	6.70	1.95	2.34	6.410	0.402	0.000	16.52	0.00
35.00	(12) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	6.410	0.402	0.000	0.00	34.40
35.00	(6) 3/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	6.410	0.402	0.000	0.00	1.68
35.00	(4) #20 Dywidag bars	Yes	3.50	1.200	6.70	1.95	2.34	6.410	0.402	0.000	16.52	0.00
35.00	(1) 0.28" RG-6	Yes	3.50	0.000	0.00	0.00	0.00	6.410	0.402	0.000	0.00	0.10
35.67	(4) #20 Dywidag bars	Yes	0.67	1.200	6.70	0.37	0.45	6.445	0.406	0.000	3.18	0.00
35.67	(12) 1 5/8" Coax	Yes	0.67	0.000	0.00	0.00	0.00	6.445	0.406	0.000	0.00	6.59
35.67	(6) 3/8" Coax	Yes	0.67	0.000	0.00	0.00	0.00	6.445	0.406	0.000	0.00	0.32
35.67	(4) #20 Dywidag bars	Yes	0.67	1.200	6.70	0.37	0.45	6.445	0.406	0.000	3.18	0.00
35.67	(1) 0.28" RG-6	Yes	0.67	0.000	0.00	0.00	0.00	6.445	0.406	0.000	0.00	0.02
40.00	(4) #20 Dywidag bars	Yes	4.33	1.200	6.70	2.42	2.90	6.659	0.404	0.000	21.25	0.00
40.00	(12) 1 5/8" Coax	Yes	4.33	0.000	0.00	0.00	0.00	6.659	0.404	0.000	0.00	42.60
40.00	(6) 3/8" Coax	Yes	4.33	0.000	0.00	0.00	0.00	6.659	0.404	0.000	0.00	2.08
40.00	(4) #20 Dywidag bars	Yes	4.33	1.200	6.70	2.42	2.90	6.659	0.404	0.000	21.25	0.00
40.00	(1) 0.28" RG-6	Yes	4.33	0.000	0.00	0.00	0.00	6.659	0.404	0.000	0.00	0.13
45.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	6.887	0.413	0.000	25.38	0.00
45.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.887	0.413	0.000	0.00	49.19
45.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.887	0.413	0.000	0.00	2.40

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (in/ft)

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



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

Gust Response Factor : 1.10 **Wind Importance Factor : 1.00**

Dead Load Factor : 1.00

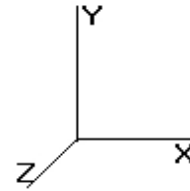
Wind Load Factor : 1.00

45.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	6.887	0.413	0.000	25.38	0.00
50.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	7.098	0.424	0.000	26.15	0.00
50.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.098	0.424	0.000	0.00	49.19
50.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.098	0.424	0.000	0.00	2.40
50.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	7.098	0.424	0.000	26.15	0.00
55.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	7.294	0.435	0.000	26.88	0.00
55.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.294	0.435	0.000	0.00	49.19
55.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.294	0.435	0.000	0.00	2.40
55.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	7.294	0.435	0.000	26.88	0.00
60.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	7.477	0.446	0.000	27.55	0.00
60.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.477	0.446	0.000	0.00	49.19
60.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.477	0.446	0.000	0.00	2.40
60.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	7.477	0.446	0.000	27.55	0.00
65.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	7.650	0.459	0.000	28.19	0.00
65.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.650	0.459	0.000	0.00	49.19
65.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.650	0.459	0.000	0.00	2.40
65.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	7.650	0.459	0.000	28.19	0.00
70.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	7.814	0.472	0.000	28.79	0.00
70.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.814	0.472	0.000	0.00	49.19
70.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.814	0.472	0.000	0.00	2.40
70.00	(4) #20 Dywidag bars	Yes	5.00	1.200	6.70	2.79	3.35	7.814	0.472	0.000	28.79	0.00
70.00	(4) #20 Dywidag bars	Yes	0.00	1.200	6.70	0.00	0.00	7.814	0.479	0.000	0.02	0.00
70.00	(12) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	7.814	0.479	0.000	0.00	0.03
70.00	(6) 3/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	7.814	0.479	0.000	0.00	0.00
70.00	(4) #20 Dywidag bars	Yes	0.00	1.200	6.70	0.00	0.00	7.814	0.479	0.000	0.02	0.00
73.50	(4) #20 Dywidag bars	Yes	3.50	1.200	6.70	1.95	2.35	7.924	0.484	0.000	20.44	0.00
73.50	(12) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	7.924	0.484	0.000	0.00	34.44
73.50	(6) 3/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	7.924	0.484	0.000	0.00	1.68
73.50	(4) #20 Dywidag bars	Yes	3.50	1.200	6.70	1.95	2.35	7.924	0.484	0.000	20.44	0.00
75.00	(4) #20 Dywidag bars	Yes	1.50	1.200	6.70	0.84	1.00	7.969	0.482	0.000	8.79	0.00
75.00	(12) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	7.969	0.482	0.000	0.00	14.73
75.00	(6) 3/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	7.969	0.482	0.000	0.00	0.72
75.00	(4) #20 Dywidag bars	Yes	1.50	1.200	6.70	0.84	1.00	7.969	0.482	0.000	8.79	0.00
75.50	(4) #20 Dywidag bars	Yes	0.50	1.200	6.70	0.28	0.34	7.985	0.485	0.000	2.94	0.00
75.50	(12) 1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	7.985	0.485	0.000	0.00	4.92
75.50	(6) 3/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	7.985	0.485	0.000	0.00	0.24
75.50	(4) #20 Dywidag bars	Yes	0.50	1.200	6.70	0.28	0.34	7.985	0.485	0.000	2.94	0.00
80.00	(4) #20 Dywidag bars	Yes	4.50	1.190	6.70	2.51	2.99	8.118	0.492	0.000	26.71	0.00
80.00	(12) 1 5/8" Coax	Yes	4.50	0.000	0.00	0.00	0.00	8.118	0.492	0.000	0.00	44.27
80.00	(6) 3/8" Coax	Yes	4.50	0.000	0.00	0.00	0.00	8.118	0.492	0.000	0.00	2.16
80.00	(4) #20 Dywidag bars	Yes	4.50	1.190	6.70	2.51	2.99	8.118	0.492	0.000	26.71	0.00
85.00	(4) #20 Dywidag bars	Yes	5.00	1.180	6.70	2.79	3.29	8.260	0.253	0.000	29.93	0.00
85.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.260	0.253	0.000	0.00	49.19
85.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.260	0.253	0.000	0.00	2.40
90.00	(4) #20 Dywidag bars	Yes	5.00	1.171	6.70	2.79	3.27	8.396	0.261	0.000	30.18	0.00
90.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.396	0.261	0.000	0.00	49.19
90.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.396	0.261	0.000	0.00	2.40
95.00	(4) #20 Dywidag bars	Yes	5.00	1.162	6.70	2.79	3.24	8.526	0.270	0.000	30.41	0.00
95.00	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.526	0.270	0.000	0.00	49.19
95.00	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.526	0.270	0.000	0.00	2.40
100.0	(4) #20 Dywidag bars	Yes	5.00	1.153	6.70	2.79	3.22	8.652	0.279	0.000	30.64	0.00
100.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.652	0.279	0.000	0.00	49.19
100.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.652	0.279	0.000	0.00	2.40
105.0	(4) #20 Dywidag bars	Yes	5.00	1.145	6.70	2.79	3.20	8.774	0.288	0.000	30.85	0.00
105.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.774	0.288	0.000	0.00	49.19
105.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.774	0.288	0.000	0.00	2.40
110.0	(4) #20 Dywidag bars	Yes	5.00	1.137	6.70	2.79	3.18	8.891	0.299	0.000	31.06	0.00

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (in/ft)

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

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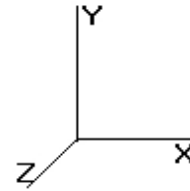
Load Case: 1.0D + 1.0W	60.00 mph Serviceability	23 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

110.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.891	0.299	0.000	0.00	49.19
110.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.891	0.299	0.000	0.00	2.40
110.0	(4) #20 Dywidag bars	Yes	0.00	1.137	6.70	0.00	0.00	8.891	0.304	0.000	0.02	0.00
110.0	(12) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	8.891	0.304	0.000	0.00	0.03
110.0	(6) 3/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	8.891	0.304	0.000	0.00	0.00
115.0	(4) #20 Dywidag bars	Yes	5.00	1.130	6.70	2.79	3.15	9.005	0.310	0.000	31.23	0.00
115.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.005	0.310	0.000	0.00	49.16
115.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.005	0.310	0.000	0.00	2.40
120.0	(4) #20 Dywidag bars	Yes	5.00	1.123	6.70	2.79	3.14	9.115	0.322	0.000	31.44	0.00
120.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.115	0.322	0.000	0.00	49.19
120.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.115	0.322	0.000	0.00	2.40
125.0	(4) #20 Dywidag bars	Yes	5.00	1.117	6.70	2.79	3.12	9.222	0.335	0.000	31.63	0.00
125.0	(12) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.222	0.335	0.000	0.00	49.19
125.0	(6) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.222	0.335	0.000	0.00	2.40
128.0	(4) #20 Dywidag bars	Yes	3.00	1.113	6.70	1.67	1.86	9.284	0.346	0.000	19.04	0.00
128.0	(12) 1 5/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	9.284	0.346	0.000	0.00	29.52
128.0	(6) 3/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	9.284	0.346	0.000	0.00	1.44
130.0	(4) #20 Dywidag bars	Yes	2.00	1.111	6.70	1.12	1.24	9.326	0.354	0.000	12.72	0.00
130.0	(12) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.326	0.354	0.000	0.00	19.68
130.0	(6) 3/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.326	0.354	0.000	0.00	0.96
131.0	(4) #20 Dywidag bars	Yes	1.00	1.109	6.70	0.56	0.62	9.346	0.358	0.000	6.37	0.00
131.0	(12) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.346	0.358	0.000	0.00	9.84
131.0	(6) 3/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.346	0.358	0.000	0.00	0.48
135.0	(4) #20 Dywidag bars	Yes	1.00	0.000	6.70	0.56	0.00	9.427	0.092	0.000	0.00	0.00
Totals:											1,125.96	1,352.55

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (in/ft)

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

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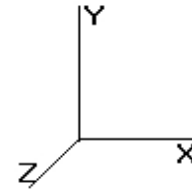
Load Case: 1.0D + 1.0W	60.00 mph Serviceability	23 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	174.24	1,508.53	0.00	0.00
10.00	171.51	1,492.43	0.00	0.00
15.00	168.78	1,571.82	0.00	0.00
20.00	166.04	1,555.72	0.00	0.00
25.00	163.31	1,539.63	0.00	0.00
30.00	160.71	1,523.53	0.00	0.00
31.50	48.46	454.93	0.00	0.00
35.00	116.74	1,441.40	0.00	0.00
35.67	22.33	274.54	0.00	0.00
40.00	295.73	1,334.61	0.00	0.00
45.00	173.68	1,382.96	0.00	0.00
50.00	175.82	1,369.55	0.00	0.00
55.00	177.42	1,356.13	0.00	0.00
60.00	178.55	1,342.72	0.00	0.00
65.00	179.27	1,329.31	0.00	0.00
70.00	179.62	1,315.89	0.00	0.00
70.00	0.12	0.87	0.00	0.00
73.50	126.98	1,172.10	0.00	0.00
75.00	54.08	364.07	0.00	0.00
75.50	18.03	121.41	0.00	0.00
80.00	162.91	787.28	0.00	0.00
85.00	150.22	864.56	0.00	0.00
90.00	148.70	853.83	0.00	0.00
95.00	146.98	843.10	0.00	0.00
100.0	145.06	832.37	0.00	0.00
105.0	142.97	821.64	0.00	0.00
110.0	140.71	810.91	0.00	0.00
110.0	0.09	0.54	0.00	0.00
115.0	138.20	729.70	0.00	0.00
120.0	135.73	722.15	0.00	0.00
125.0	133.02	714.10	0.00	0.00
128.0	78.30	558.19	0.00	0.00
130.0	51.57	147.85	0.00	0.00
131.0	308.42	989.04	0.00	0.00
135.0	63.21	249.29	0.00	0.00
140.0	76.65	304.36	0.00	0.00
142.0	614.81	1,845.99	0.00	0.00
145.0	43.88	143.41	0.00	0.00
150.0	1,266.91	3,253.57	28.30	1,548.49
Totals:	6,699.78	37,924.04	28.30	1,548.49

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (in/ft)

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



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

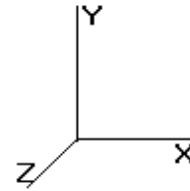
Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-37.92	-6.71	-0.03	-640.11	0.00	640.11	3,133.66	1,566.83	4,776.46	2,358.91	0.00	0.00	0.111
5.00	-36.41	-6.57	-0.03	-606.54	0.00	606.54	3,091.35	1,545.67	4,611.19	2,277.30	0.02	-0.04	0.107
10.00	-34.91	-6.42	-0.03	-573.71	0.00	573.71	3,047.99	1,524.00	4,447.17	2,196.29	0.09	-0.09	0.103
15.00	-33.33	-6.27	-0.03	-541.61	0.00	541.61	3,003.60	1,501.80	4,284.50	2,115.95	0.21	-0.13	0.099
20.00	-31.77	-6.13	-0.03	-510.24	0.00	510.24	2,958.17	1,479.08	4,123.27	2,036.33	0.37	-0.17	0.094
25.00	-30.23	-5.98	-0.03	-479.61	0.00	479.61	2,911.70	1,455.85	3,963.58	1,957.46	0.57	-0.21	0.090
30.00	-28.71	-5.83	-0.03	-449.71	0.00	449.71	2,864.18	1,432.09	3,805.55	1,879.42	0.82	-0.26	0.086
31.50	-28.25	-5.79	-0.03	-440.95	0.00	440.95	2,849.69	1,424.85	3,758.37	1,856.12	0.90	-0.27	0.085
35.00	-26.81	-5.67	-0.03	-420.72	0.00	420.72	2,805.48	1,402.74	3,636.10	1,795.73	1.11	-0.30	0.080
35.67	-26.53	-5.65	-0.03	-416.92	0.00	416.92	2,231.05	1,115.53	2,951.35	1,457.56	1.15	-0.30	0.090
40.00	-25.19	-5.37	-0.03	-392.43	0.00	392.43	2,201.95	1,100.98	2,850.70	1,407.85	1.44	-0.34	0.086
45.00	-23.81	-5.20	-0.03	-365.60	0.00	365.60	2,167.39	1,083.69	2,735.30	1,350.86	1.81	-0.37	0.081
50.00	-22.44	-5.03	-0.03	-339.59	0.00	339.59	2,131.78	1,065.89	2,620.87	1,294.35	2.22	-0.41	0.076
55.00	-21.08	-4.86	-0.03	-314.43	0.00	314.43	2,095.13	1,047.56	2,507.52	1,238.37	2.68	-0.45	0.072
60.00	-19.74	-4.68	-0.03	-290.14	0.00	290.14	2,057.44	1,028.72	2,395.35	1,182.97	3.17	-0.49	0.067
65.00	-18.40	-4.50	-0.03	-266.75	0.00	266.75	2,018.71	1,009.36	2,284.46	1,128.21	3.70	-0.52	0.062
70.00	-17.09	-4.31	-0.03	-244.25	0.00	244.25	1,978.94	989.47	2,174.96	1,074.13	4.26	-0.55	0.058
70.00	-17.09	-4.32	-0.03	-244.23	0.00	244.23	1,978.92	989.46	2,174.88	1,074.09	4.26	-0.55	0.058
73.50	-15.92	-4.18	-0.03	-229.13	0.00	229.13	1,462.63	731.31	1,612.04	796.13	4.68	-0.58	0.062
75.00	-15.55	-4.13	-0.03	-222.87	0.00	222.87	1,455.06	727.53	1,589.51	785.00	4.86	-0.59	0.060
75.50	-15.43	-4.11	-0.03	-220.80	0.00	220.80	1,452.51	726.26	1,581.99	781.28	4.92	-0.59	0.060
75.50	-15.43	-4.11	-0.03	-220.80	0.00	220.80	1,452.51	726.26	1,581.99	781.28	4.92	-0.59	0.099
80.00	-14.64	-3.95	-0.03	-202.30	0.00	202.30	1,429.11	714.55	1,514.58	747.99	5.49	-0.62	0.092
85.00	-13.77	-3.80	-0.03	-182.55	0.00	182.55	1,402.12	701.06	1,440.27	711.29	6.17	-0.67	0.084
90.00	-12.92	-3.65	-0.03	-163.54	0.00	163.54	1,374.09	687.04	1,366.68	674.95	6.89	-0.72	0.077
95.00	-12.08	-3.50	-0.03	-145.28	0.00	145.28	1,345.02	672.51	1,293.93	639.02	7.67	-0.76	0.070
100.00	-11.24	-3.36	-0.03	-127.75	0.00	127.75	1,314.91	657.46	1,222.10	603.55	8.49	-0.80	0.062
105.00	-10.42	-3.21	-0.03	-110.97	0.00	110.97	1,283.76	641.88	1,151.31	568.59	9.35	-0.84	0.055
110.00	-9.61	-3.06	-0.03	-94.93	0.00	94.93	1,247.14	623.57	1,077.81	532.29	10.26	-0.88	0.048
110.00	-9.61	-3.06	-0.03	-94.92	0.00	94.92	1,247.10	623.55	1,077.76	532.26	10.26	-0.88	0.048
110.00	-9.61	-3.06	-0.03	-94.92	0.00	94.92	846.53	423.27	735.94	363.45	10.26	-0.88	0.057
115.00	-8.88	-2.92	-0.03	-79.62	0.00	79.62	828.55	414.27	693.31	342.40	11.20	-0.91	0.049
120.00	-8.16	-2.77	-0.03	-65.04	0.00	65.04	809.51	404.76	651.00	321.50	12.17	-0.94	0.040
125.00	-7.45	-2.63	-0.03	-51.17	0.00	51.17	789.44	394.72	609.12	300.82	13.17	-0.97	0.032
128.00	-6.89	-2.54	-0.03	-43.28	0.00	43.28	776.89	388.45	584.25	288.54	13.79	-0.98	0.027
128.00	-6.89	-2.54	-0.03	-43.28	0.00	43.28	776.89	388.45	584.25	288.54	13.79	-0.98	0.159
130.00	-6.74	-2.49	-0.03	-38.19	0.00	38.19	768.32	384.16	567.78	280.41	14.20	-0.99	0.145
131.00	-5.76	-2.17	-0.03	-35.70	0.00	35.70	763.98	381.99	559.59	276.36	14.41	-1.01	0.137
135.00	-5.51	-2.11	-0.03	-27.01	0.00	27.01	746.17	373.08	527.09	260.31	15.30	-1.10	0.111
140.00	-5.20	-2.03	-0.03	-16.45	0.00	16.45	722.98	361.49	487.14	240.58	16.49	-1.18	0.076
142.00	-3.37	-1.38	-0.03	-12.38	0.00	12.38	713.41	356.70	471.39	232.80	16.99	-1.20	0.058
145.00	-3.23	-1.34	-0.03	-8.23	0.00	8.23	694.06	347.03	445.03	219.78	17.75	-1.23	0.042
150.00	0.00	-1.27	-0.03	-1.55	0.00	1.55	659.19	329.60	401.19	198.13	19.05	-1.25	0.008

Pole : 302490
 Location : East Lyme, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156700 (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

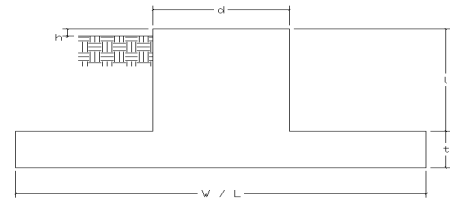
Load Case	Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.6W	36.51	0.00	42.68	0.01	0.15	3579.93	128.00	0.89
0.9D + 1.6W	36.50	0.00	35.42	0.01	0.15	3552.59	128.00	0.88
1.2D + 1.0Di + 1.0Wi	6.04	0.00	64.30	0.00	0.02	618.77	128.00	0.18
1.0D + 1.0W	6.71	0.00	37.92	0.00	0.03	640.11	128.00	0.16

Additional Steel Summary

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors			Upper Termination Connectors				Lower Termination Connectors				Max Member		
			VQ/I (lb/in)	Shear Applied (kips)	Shear phiVn (kips)	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Pu (kip)	phiPn (kip)	Ratio
0.00	128.00	(4) SOL-#20 All Thre	410.2	12.3	16.8	80.9	12.0	7	8	0.0	12.0	0	0	264.6	330.5	0.801
0.00	75.5	(4) SOL-#20 All Thre	235.3	7.1	16.8	154.8	12.0	13	20	0.0	12.0	0	0	264.6	330.5	0.801

Site Name: East Lyme, CT
 Site Number: 302490
 Engineering Number: 58044521
 Engineer: Anil Ayalasomayajula
 Date: 05/05/14
 Tower Type: MP

Program Last Updated: 6/1/2010



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

Foundation Mapped:	Y
Compression/Leg:	42.7 k
Uplift/Leg:	0.0 k
Total Shear:	36.5 k
Moment:	356.7 k-ft
Tower + Appurtenance Weight:	64.3 k
Depth to Base of Foundation (l + t - h):	7.00 ft
Diameter of Pier (d):	9.02 ft
Height of Pier above Ground (h):	0.50
Width of Pad (W):	13.50 ft
Length of Pad (L):	13.50 ft
Thickness of Pad (t):	3.50 ft
Tower Leg Center to Center:	0.00 ft
Number of Tower Legs:	1.0 (1 if MP or GT)
Tower Center from Mat Center:	0.00 ft
Depth Below Ground Surface to Water Table:	20.00 ft
Unit Weight of Concrete:	150.0 pcf
Unit Weight of Soil Above Water Table:	100.0 pcf
Unit Weight of Water:	62.4 pcf
Unit Weight of Soil Below Water Table:	50.0 pcf
Friction Angle of Uplift:	15.0 Degrees
Ultimate Coefficient of Shear Friction:	0.35
Ultimate Compressive Bearing Pressure:	15000.0 psf
Ultimate Passive Pressure on Pad Face:	0.0 psf
$\phi_{\text{Soil and Concrete Weight}}$:	0.9
ϕ_{Soil} :	0.75

Overturing Moment Usage

Design OTM:	630.6 k-ft
OTM Resistance:	1504.0 k-ft
Design OTM / OTM Resistance:	0.42 Result: OK

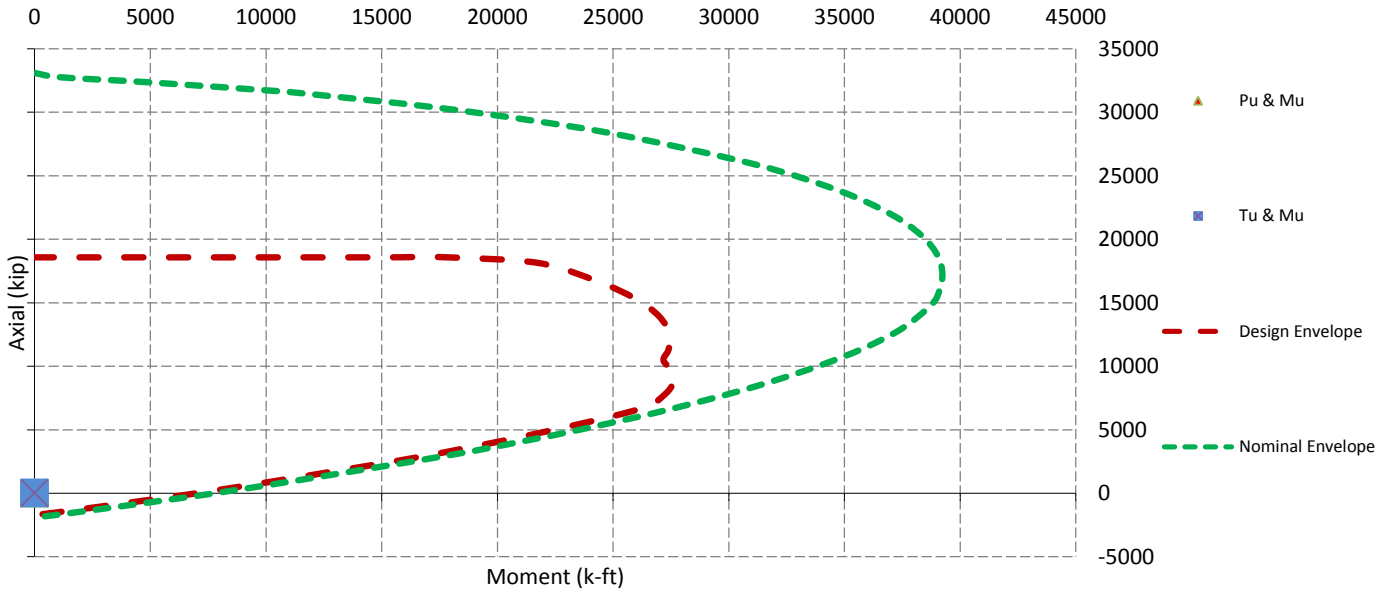
Soil Bearing Pressure Usage:

Net Bearing Pressure:	3075 psf
Nominal Bearing Pressure:	11250 psf
Net Bearing Pressure/Nominal Bearing Pressure:	0.27 Result: OK
Load Direction Controlling Design Bearing Pressure:	Diagonal to Pad Edge

Sliding Factor of Safety

Total Factored Sliding Resistance:	60.1 k
Sliding Design / Sliding Resistance:	0.61 Result: OK

Nominal and Design Moment Capacity and Factored Design Loads



Base/Flange Plate	Plate Type	Baseplate
	Pole Diameter	37.38 in
	Pole Thickness	0.375 in
	Plate Length	44 in
	Plate Thickness	2.5 in
	Plate Fy	60 ksi
	Weld Length	0.25 in
	ϕ_s Resistance	1400.64 k-in
Applied	659.81 k-in	
Stiffeners	#	0

Code Rev. **G**

Date **5/7/2014**
 Engineer **Anil Ayalasomayajula**
 Site # **302490**
 Carrier **AT&T Mobility**

Moment **3579.9 k-ft**
 Axial **42.7 k**

Bolts	#	8
	Bolt Circle	44 in
	(R)adial / (S)quare	S
	Bolt Gap	6 in
	Diameter	2.25 in
	Hole Diameter	2.3125 in
	Type	ASTM A615
	Fy	75 ksi
Fu	100 ksi	
ϕ_s Resistance	259.82 k	
Applied	173.29 k	
Reinforcement	#	8
	DYW. Circle	49.02 in
	Offset Angle	22.5 °
	Type	#20
	Diameter	2.5 in
Fu	100 ksi	
Extra Bolts O	#	0

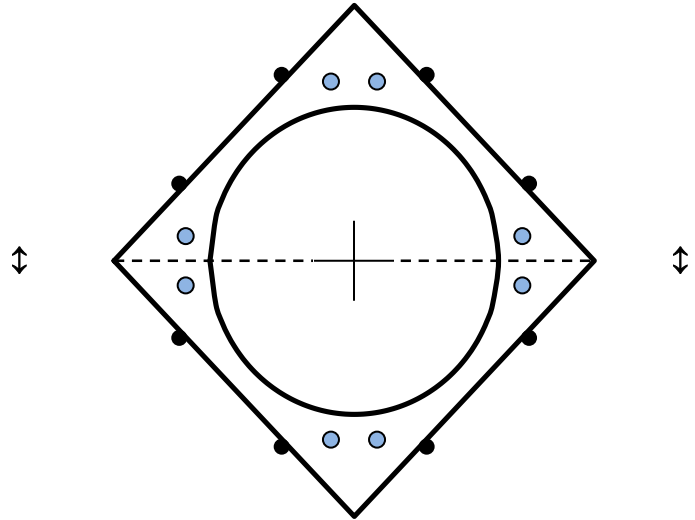


Plate Stress Ratio:
0.47 (Pass)

Bolt Stress Ratio:
0.67 (Pass)

Base/Flange Plate	Plate Type	Flange @ 110.0 ft
	Pole Diameter	20.53 in
	Pole Thickness	0.1875 in
	Plate Diameter	28.5 in
	Plate Thickness	1 in
	Plate Fy	60 ksi
	Weld Length	0.25 in
	ϕ_s Resistance	72.56 k-in
	Applied	27.02 k-in
	Stiffeners	#

Code Rev. **G**

Date **5/7/2014**
 Engineer **Anil Ayalasomayajula**
 Site # **302490**
 Carrier **AT&T Mobility**

Moment **555.1 k-ft**
 Axial **9.8 k**

Required Flange Thickness:
0.61 in OK

Bolts	#	12
	Bolt Circle	25.75 in
	(R)adial / (S)quare	R
	Diameter	1 in
	Hole Diameter	1.0625 in
	Type	A325
	Fy	92 ksi
	Fu	120 ksi
	ϕ_s Resistance	54.52 k
	Applied	14.77 k
Reinforcement	#	4
	DYW. Circle	33.3 in
	Offset Angle	22.5°
	Type	#20
	Diameter	2.5 in
Fu	100 ksi	
Extra Bolts	#	0

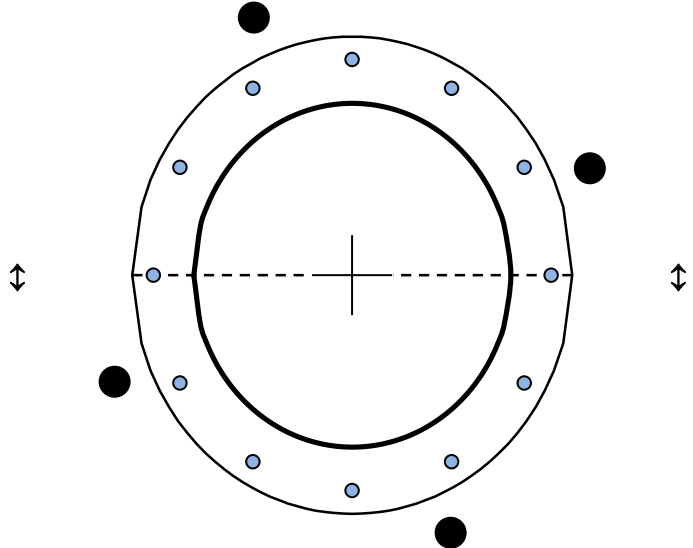
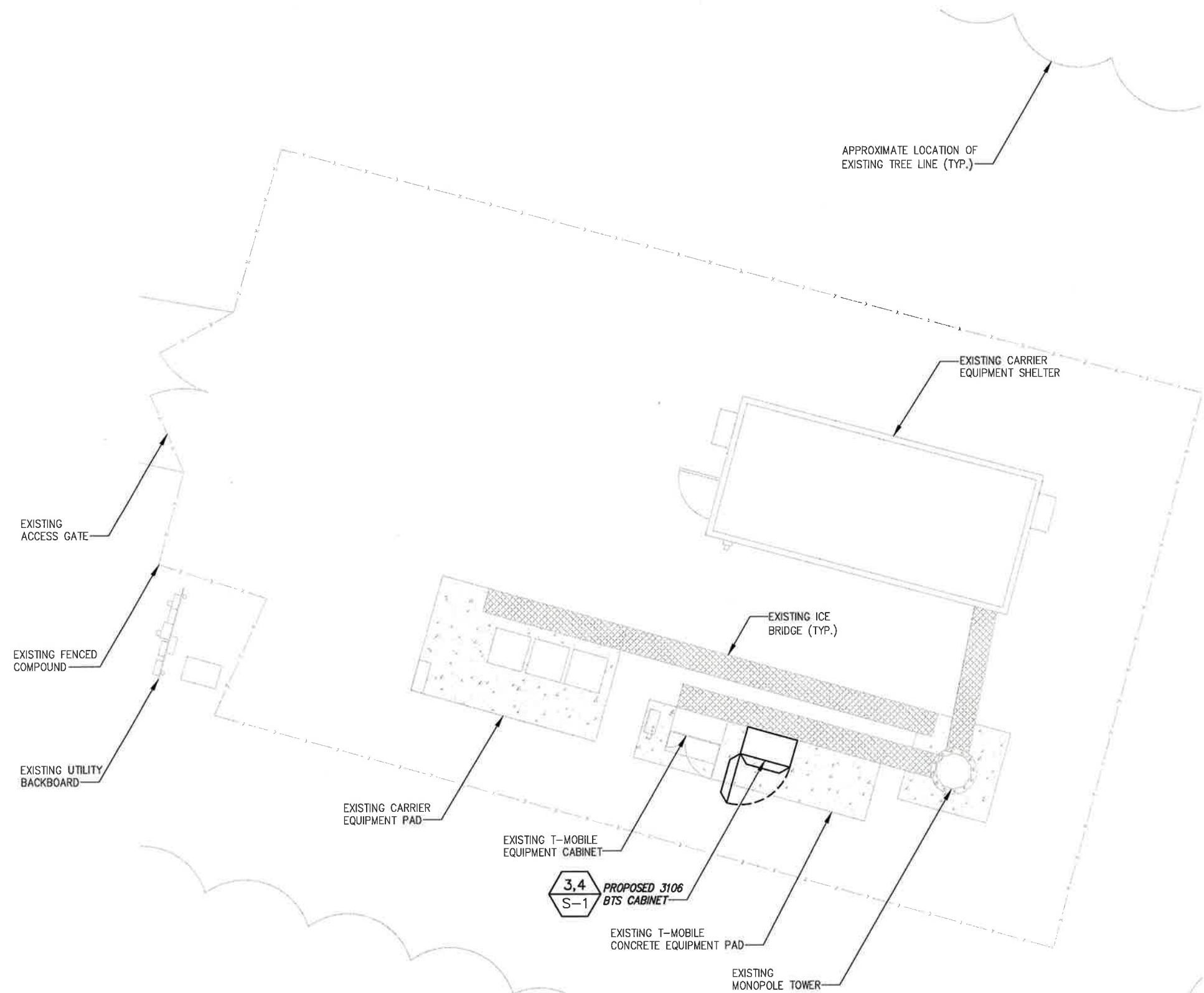


Plate Stress Ratio:
0.37 (Pass)

Bolt Stress Ratio:
0.27 (Pass)



GENERAL SITE NOTES:

1. A COMPLETE BOUNDARY SURVEY OF THE HOST PARCEL HAS NOT BEEN PERFORMED BY INFINIGY ENGINEERING. BOUNDARY INFORMATION WAS OBTAINED FROM INFORMATION PROVIDED BY OTHERS. PROPERTY IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
2. BASEMAPPING INFORMATION BASED ON PROVIDED INFORMATION.
3. CONTRACTOR TO FIELD VERIFY DIMENSIONS AS NECESSARY BEFORE CONSTRUCTION.
4. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE SIGNS OF ADVERTISING.
5. THE PROPOSED DEVELOPMENT IS UNMANNED AND THEREFORE DOES NOT REQUIRE A MEANS OF WATER SUPPLY OR SEWAGE DISPOSAL.
6. NO LANDSCAPING WORK IS PROPOSED IN CONJUNCTION WITH THIS DEVELOPMENT OTHER THAN THAT WHICH IS SHOWN.
7. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES.
8. UTILITIES SHOWN ON PLAN ARE TAKEN FROM OWNERS RECORDS AND FIELD LOCATION OF VISIBLE SURFACE FEATURES. THE EXISTENCE, EXTENT AND EXACT HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES HAS NOT BEEN VERIFIED. ANY CONTRACTOR PERFORMING WORK ON THIS SITE MUST CONTACT MISS UTILITY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.
9. ALL OBSOLETE OR UNUSED FACILITIES SHALL BE REMOVED WITHIN 12 MONTHS OF CESSATION OF OPERATIONS.

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

INFINIGY
 Design Build Deliver
 1033 WATERBURY SHAKER ROAD
 OFFICE: (518) 680-0790
 FAX: (518) 680-0783

SUBMITTALS

DATE	DESCRIPTION	REVISION
4/3/14	REVIEW	A
4/8/14	FOR PERMIT	0
5/16/14	REVISED PER COMMENTS	1

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

PROJECT NO: 317-1179
 DRAWN BY: JLM
 CHECKED BY: AJD

SITE LEGEND

- SITE PROPERTY LINE
- STREET OR ROAD
- - - CHAIN LINK FENCE
- OPAQUE WOODEN FENCE
- BOARD ON BOARD FENCE
- ⊙ DECIDUOUS TREES/SHRUBS
- ⊙ EVERGREEN TREES/SHRUBS
- TREE LINE
- ⊗ UTILITY POLE
- (E) EXISTING
- (N) NEW
- (P) PROPOSED
- (F) FUTURE
- ◐ PROP. GSM ANTENNA
- ◑ PROP. UMTS ANTENNA
- ◒ EX. GSM ANTENNA
- ◓ EX. UMTS ANTENNA



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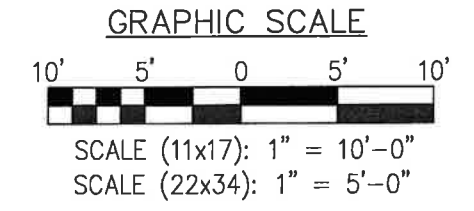
SITE NAME
 CTNL010A
 NL010/SPECTRASITE
 2 SCOTT ROAD
 EAST LYME, CT 06333

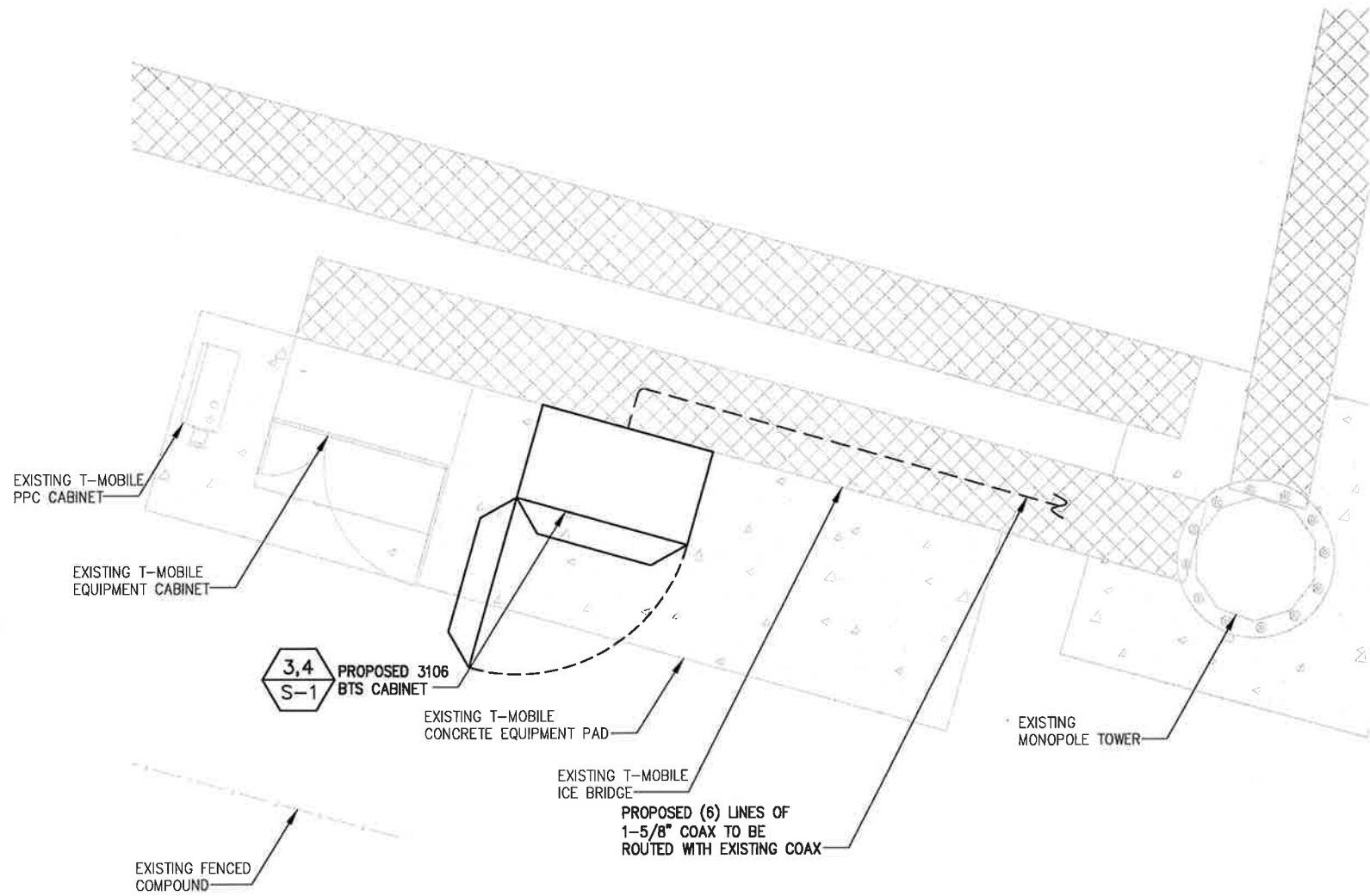
SHEET TITLE
 SITE PLAN

SHEET NUMBER
 C-1
 SHEET 2 OF 8 SHEETS

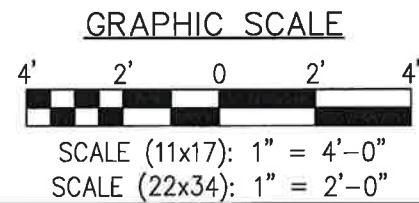


1 SITE PLAN
 SCALE: AS NOTED

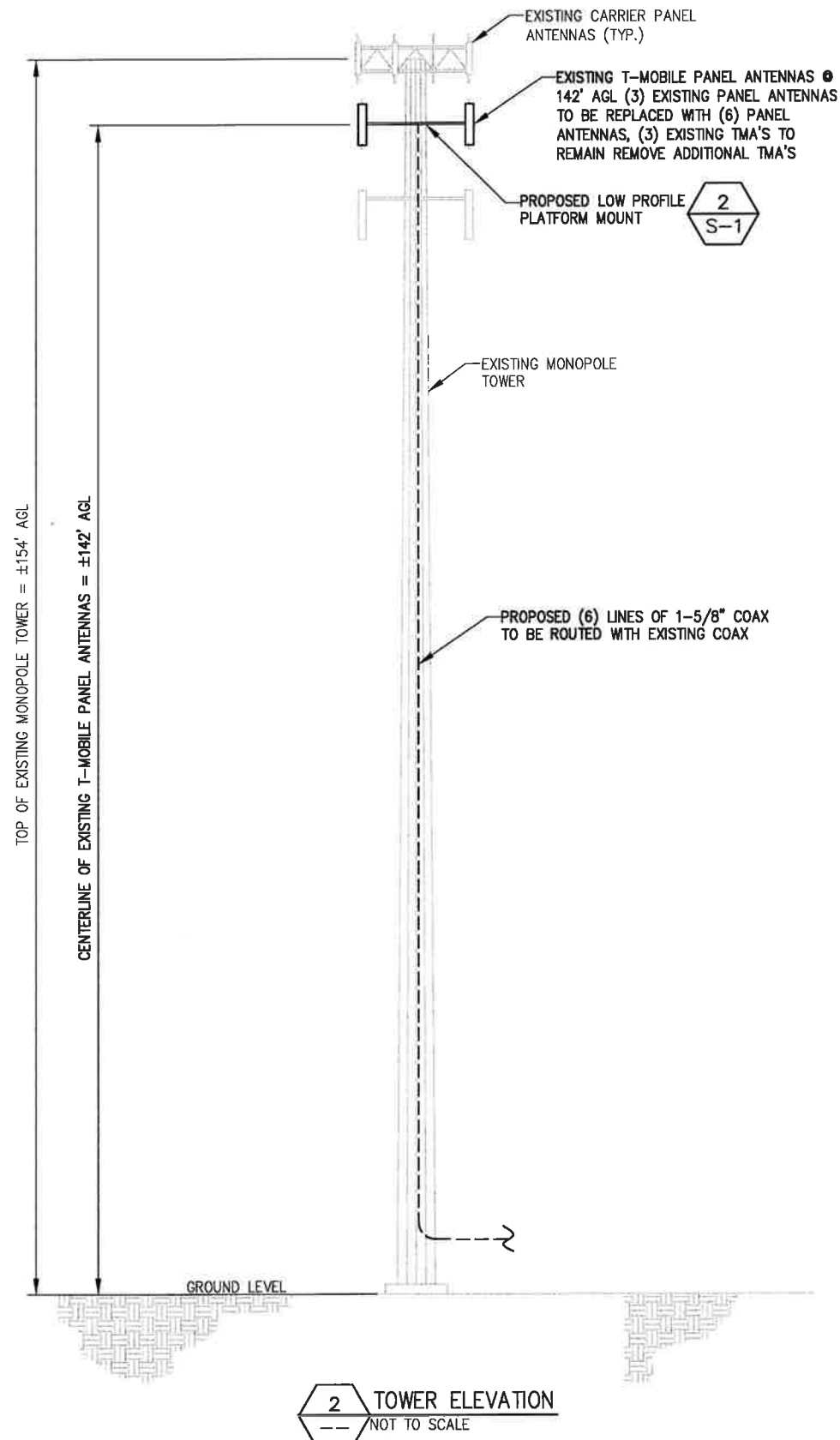




1 COMPOUND PLAN
SCALE: AS NOTED



NOTE:
INFINIGY8 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 NORTHEAST LLC
35 ORFEN ROAD SOUTH
BLOOMFIELD, CT 06002

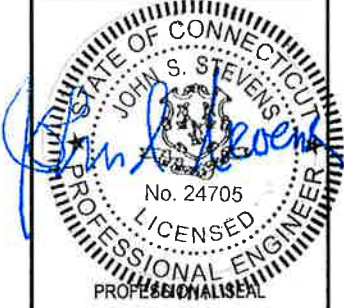
Design:
INFINIGY8
1033 WATERVLIET SHAKER ROAD
OFFICE: 618-680-0790
FAX: (518) 680-0793

SUBMITTALS

DATE	DESCRIPTION	REVISION
4/3/14	REVIEW	A
4/9/14	FOR PERMIT	D
5/15/14	REVISED PER COMMENTS	1

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

PROJECT NO: 317-1179
DRAWN BY: JLM
CHECKED BY: AJD



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SITE NAME
CTNL010A
NL010/SPECTRASITE
2 SCOTT ROAD
EAST LYME, CT 06333

SHEET TITLE
COMPOUND PLAN & ELEVATION

SHEET NUMBER
C-2
SHEET 3 OF 8 SHEETS

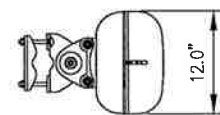
RF SYSTEM SCHEDULE (2C CONFIGURATION)

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	100°	0°	2'	142'-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	-									(P)178±	1-5/8"	COAX	TBD	N/A	LMU A1	-	COAX	LMU A1	-
		LMU #2										(P)178±	1-5/8"	COAX	TBD	N/A	LMU A2	-	COAX	LMU A2	-
	GSM	OPTICAL #1	B2A									178±	-	HYBRID	MASTERLINE EXTREME HYBRID (9x18)	ERICSSON	FIBER 1	0	FIBER	GSM 1900 A1	R
	UMTS	OPTICAL #2																	FIBER	UMTS 1900 A2	G
LTE AWS	OPTICAL #1	B4A	AIR21	ERICSSON	100°	0°	2'	142'-0"	-	-	-	FIBER	LTE FIBER 1	Y							
B	UMTS AWS	RF #1	B4P	AIR21	ERICSSON	220°	0°	2'	142'-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	-									(P)178±	1-5/8"	COAX	TBD	N/A	LMU B1	-	COAX	LMU B1	-
		LMU #2										(P)178±	1-5/8"	COAX	TBD	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	220°	0°	2'	142'-0"	-	-	-	HYBRID	LTE FIBER 2	YY							
C	UMTS AWS	RF #1	B4P	AIR21	ERICSSON	340°	0°	2'	142'-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	-									(P)178±	1-5/8"	COAX	TBD	N/A	LMU C1	-	COAX	LMU C1	-
		LMU #2										(P)178±	1-5/8"	COAX	TBD	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	340°	0°	2'	142'-0"	-	-	-	HYBRID	LTE FIBER 3	YYY							

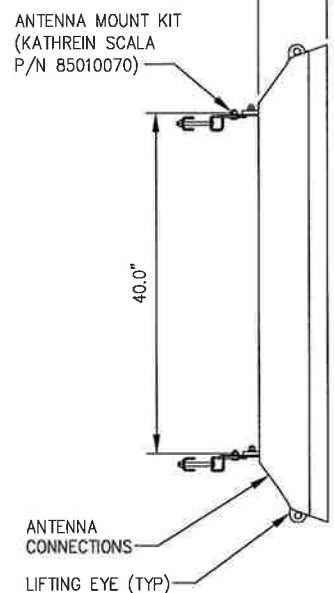
1 RF SCHEDULE
NOT TO SCALE

KEY

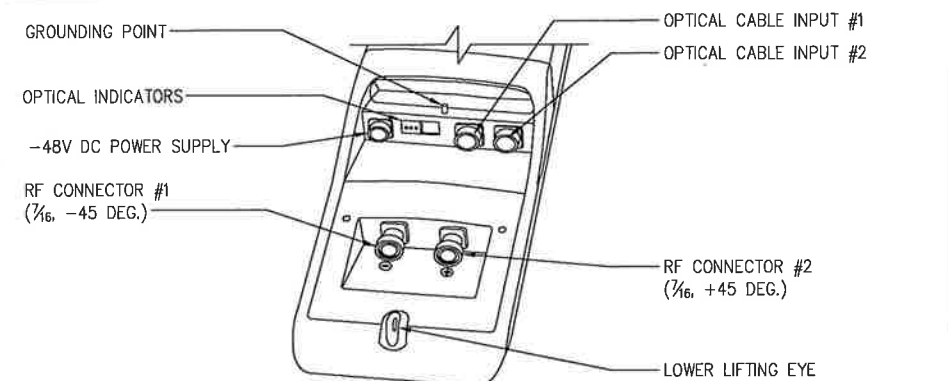
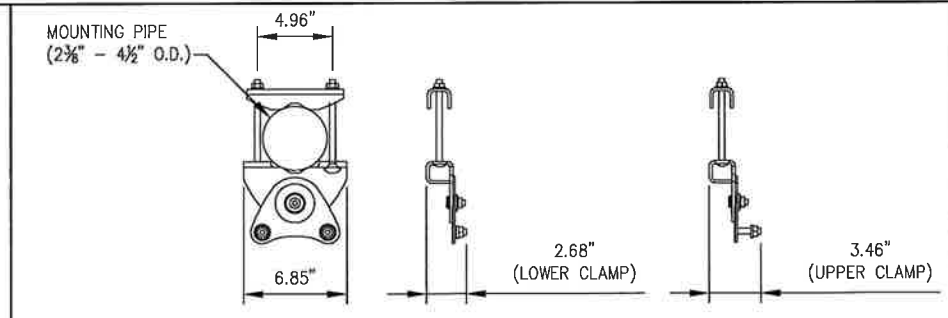
EXISTING	R - RED - GSM
PROPOSED	G - GREEN - UMS 1900
FIBER CONNECTION	B - BLUE - UMS AWS
	Y - YELLOW - LTE
	O - ORANGE - FIBER CABLE



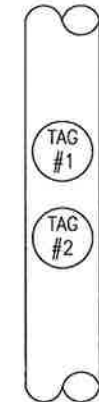
AIR21 "ANTENNA INTEGRATED RADIO"
WEIGHT: 83LBS (MAX)



2 ANTENNA DETAIL
NOT TO SCALE



ANTENNA CONNECTION INTERFACE DETAIL
NOT TO SCALE



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
4/3/14	REVIEW	A
4/8/14	FOR PERMIT	D
5/16/14	REVISED PER COMMENTS	1

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

PROJECT NO: 317-1179
DRAWN BY: JLM
CHECKED BY: AJD



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SITE NAME
CTNL010A
NL010/SPECTRASITE
2 SCOTT ROAD
EAST LYME, CT 06333

SHEET TITLE
ANTENNA DETAIL & RF SCHEDULE

SHEET NUMBER
C-3
SHEET 4 OF 8 SHEETS

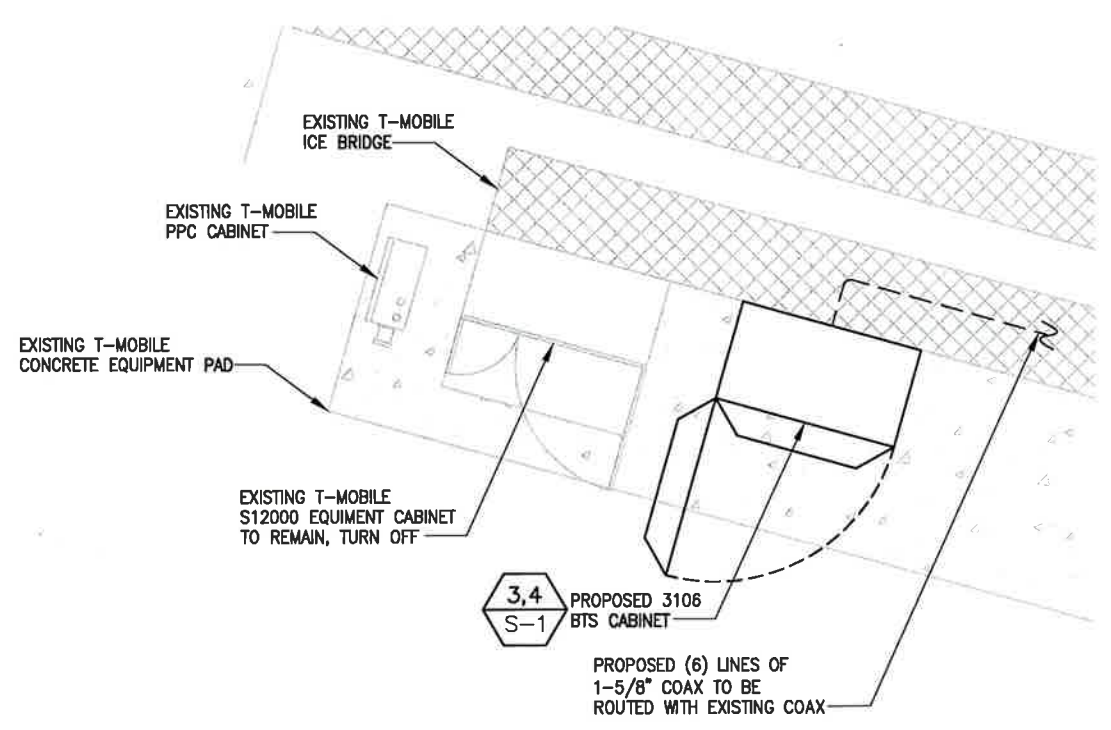
STRUCTURAL NOTES:
 1. SPECIFICATIONS / CODES:
 -CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE ACI CODE.
 -STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH AISC STEEL CONSTRUCTION MANUAL, 9TH EDITION.
 -WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (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."
 2. MATERIALS:
 -CONCRETE: f_c' - 3000psi. (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"Øx43/4" EMBEDMENT OR AN APPROVED EQUAL.

SUBMITTALS

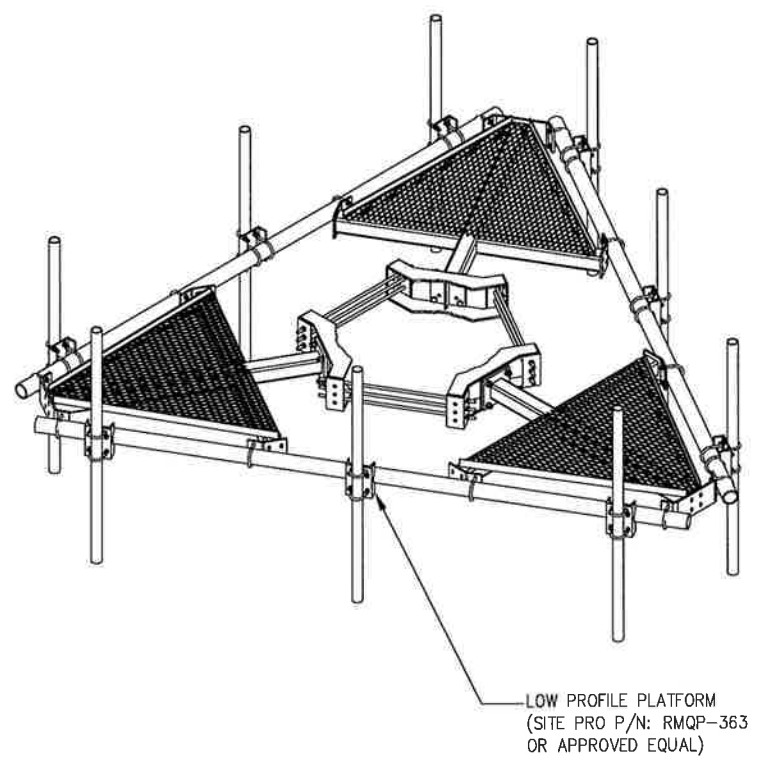
DATE	DESCRIPTION	REVISION
4/3/14	REVIEW	A
4/9/14	FOR PERMIT	0
5/16/14	REVISED PER COMMENTS	1

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

PROJECT NO: 317-1179
 DRAWN BY: JLM
 CHECKED BY: AJD

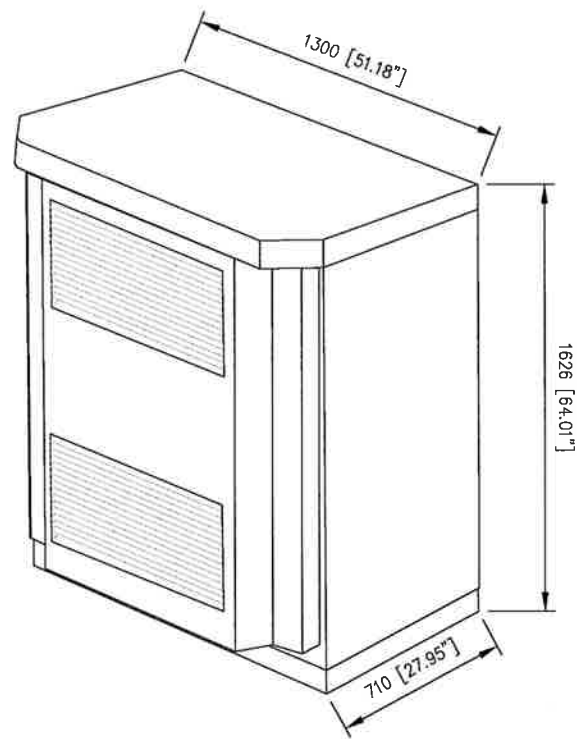


1 EQUIPMENT PAD LAYOUT PLAN
 NOT TO SCALE

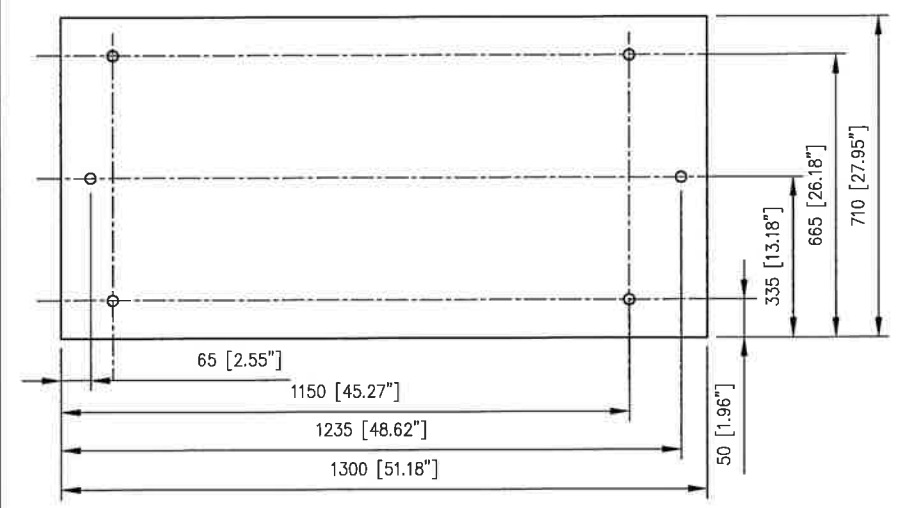


2 LOW PROFILE PLATFORM MOUNT
 NOT TO SCALE

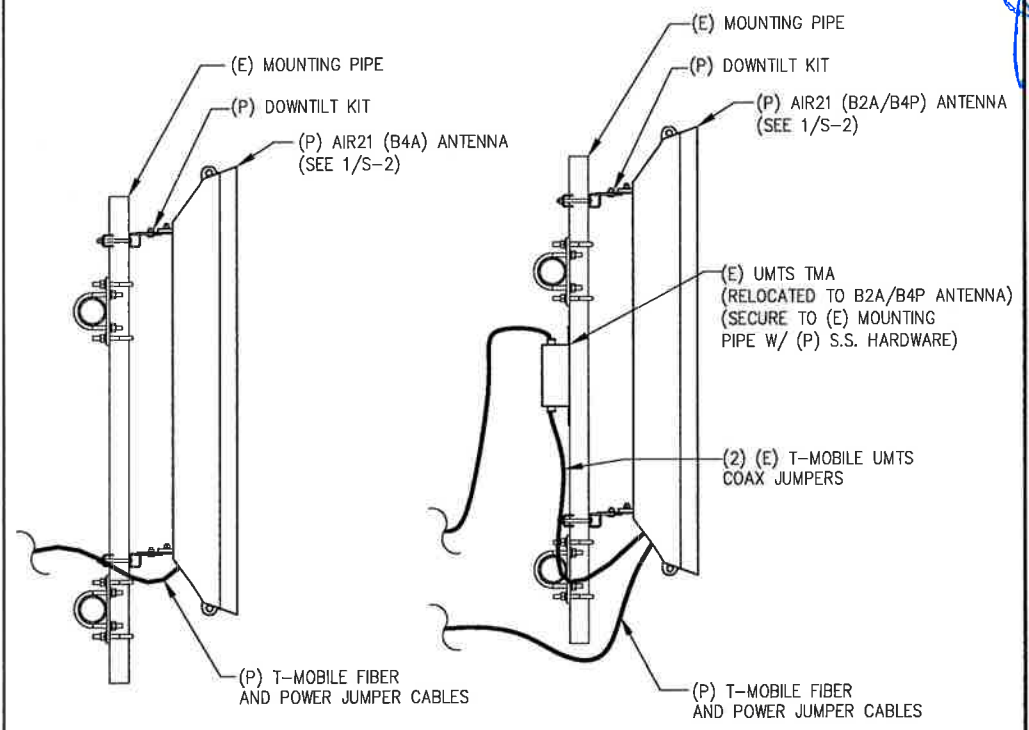
NOTE:
 IF OBSTRUCTIONS TO LEFT OF CABINET EXIST,
 PROVIDE 8" OF CLEARANCE FOR DOOR SWING.



4 ERICSSON RBS 3106
 NOT TO SCALE



5 ERICSSON RBS 3106 BOLT HOLE DIAGRAM
 NOT TO SCALE



5 ANTENNA MOUNTING DETAIL
 NOT TO SCALE



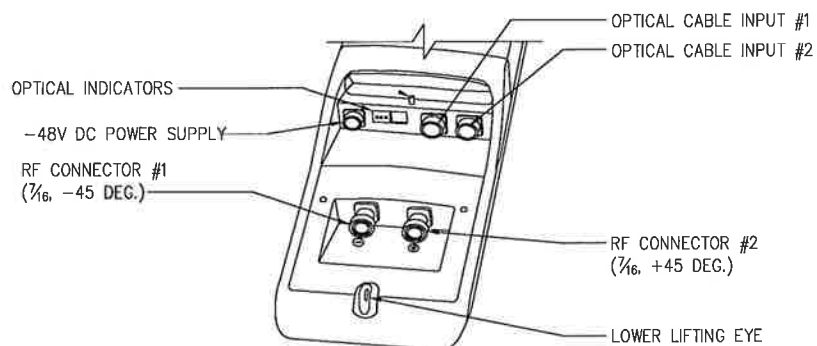
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SITE NAME
CTNL010A
 NL010/SPECTRASITE
 2 SCOTT ROAD
 EAST LYME, CT 06333

SHEET TITLE
EQUIPMENT SPECIFICATIONS

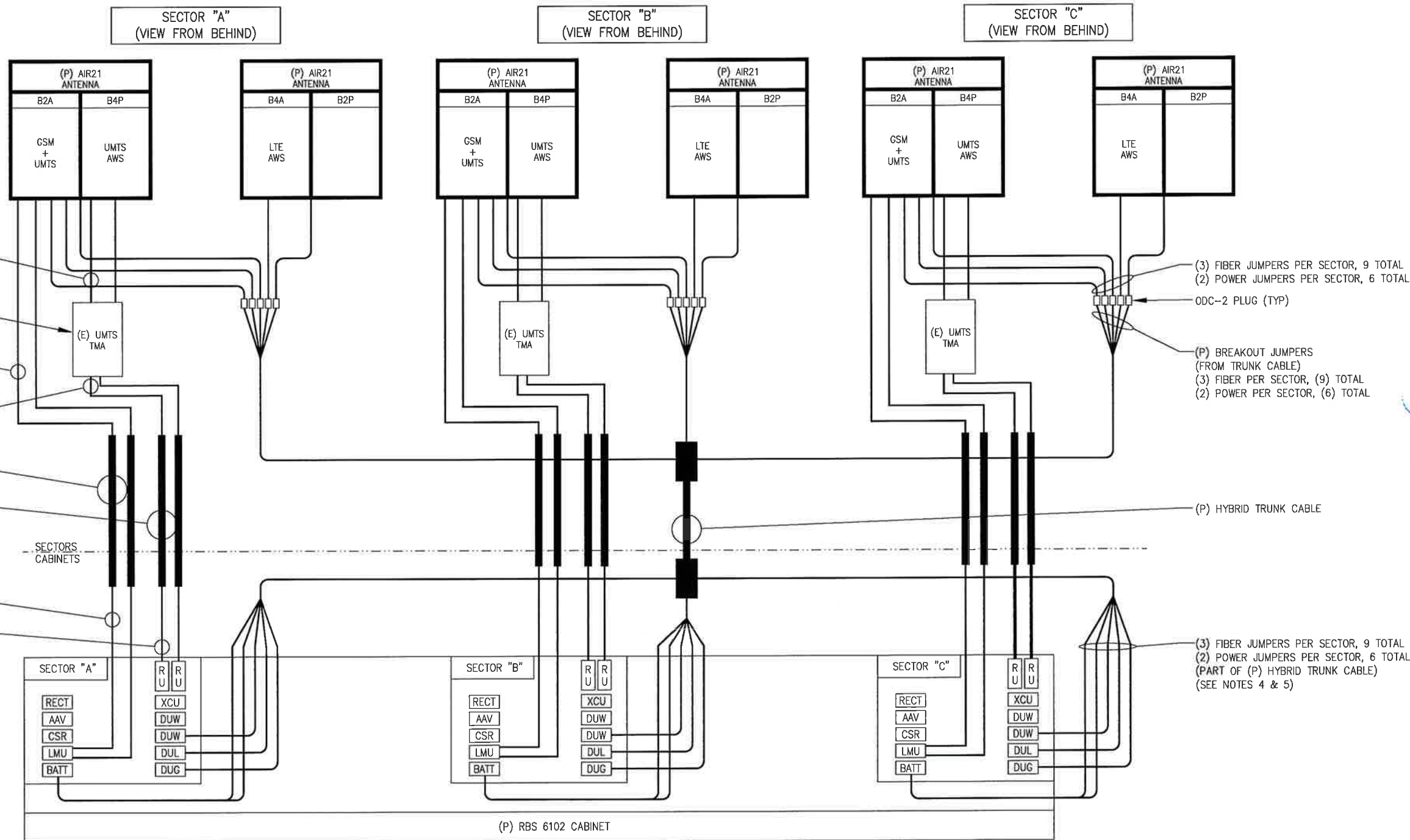
SHEET NUMBER
S-1
 SHEET 5 OF 8 SHEETS



1 ANTENNA CONNECTION INTERFACE
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.



- PROPOSED FIBER/POWER JUMPER
- PROPOSED FIBER TRUNK CABLE
- EXISTING COAX CABLE
- EXISTING COAX JUMPER

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

SUBMITTALS		
DATE	DESCRIPTION	REVISION
4/3/14	REVIEW	A
4/9/14	FOR PERMIT	0
5/15/14	REVISED PER COMMENTS	1

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

PROJECT NO: 317-1179
DRAWN BY: JLM
CHECKED BY: AJD



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CTNL010A
NL010/SPECTRASITE
2 SCOTT ROAD
EAST LYME, CT 06333

SHEET TITLE
COAX/FIBER PLUMBING DIAGRAM

SHEET NUMBER
E-2
SHEET 7 OF 8 SHEETS

