STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL
Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
www.ct.gov/csc

July 6, 2012

Lauren Groppi
TRM, Inc.
16 Chestnut Street
Foxborough, MA 02035

RE: **EM-AT&T-049-120619** – AT&T Mobility notice of intent to modify an existing telecommunications facility located at Town Farm Road, Enfield, Connecticut.

Dear Ms. Groppi:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

- Additional reinforcements to the tower be added in accordance with the recommendations made in the Structural Analysis Report prepared by American Tower Engineering Services dated March 26, 2012 , and stamped by Raphael Mohamed; and
- Prior to antenna installation, a signed letter from a Professional Engineer duly licensed in the State of Connecticut shall be submitted to the Council to certify that the recommended modifications have been completed and the tower and foundation will not exceed 100 percent of the post-construction structural rating.
- Any deviation from the proposed modification as specified in this notice and supporting materials with Council shall render this acknowledgement invalid;
- Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- Not less than 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration;

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated June 19, 2012. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has

also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Very truly yours,

Linda Roberts/AAB

Linda Roberts
Executive Director

LR/CDM/cm

c: The Honorable Scott Kaupin, Mayor, Town of Enfield
Matthew W. Coppler, Town Manager, Town of Enfield
Jose Giner, Director of Planning and Community Development, Town of Enfield

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June 19, 2012

The Honorable Scott Kaupin
Mayor
Town of Enfield
820 Enfield Street
Enfield, CT 06082

RE: **EM-AT&T-049-120619** – AT&T Mobility notice of intent to modify an existing telecommunications facility located at Town Farm Road, Enfield, Connecticut.

Dear Mayor Kaupin:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

If you have any questions or comments regarding this proposal, please call me or inform the Council by July 3, 2012.

Thank you for your cooperation and consideration.

Very truly yours,

Linda Roberts

Linda Roberts
Executive Director

LR/cm

Enclosure: Notice of Intent

c: Matthew W. Coppler, Town Manager, Town of Enfield
Jose Giner, Director of Planning and Community Development, Town of Enfield

CSC
CONNECTICUT SITING COUNCIL

EM-AT&T-049-120619

June 19, 2012

Ms. Linda Roberts, Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RECEIVED
JUN 19 2012
CONNECTICUT
SITING COUNCIL

RE: AT&T Exempt Modification Acknowledgement
Town Farm Road, Enfield, CT

Dear Ms. Roberts:

Enclosed please find an original and 5 copies of the above noted Applications and the corresponding filing fee on behalf of AT&T.

The proposed installation consists of adding three (3) antennas and a surge arrestor to AT&T's existing installation on the existing Monopole with supporting ground equipment.

Please do not hesitate to contact me with any questions or concerns.

Thank you.

Sincerely,

Lauren Groppi
TRM, Inc.
16 Chestnut Street
Foxborough, MA 02035
lgroppi@trmcom.com

June 19, 2012

American Tower Corporation
Attn: Andrew Gilbert
10 Presidential Way
Woburn, MA 01801

RE: AT&T Exempt Modification Application
Town Farm Road, Enfield, CT

Dear Sir/Madam:

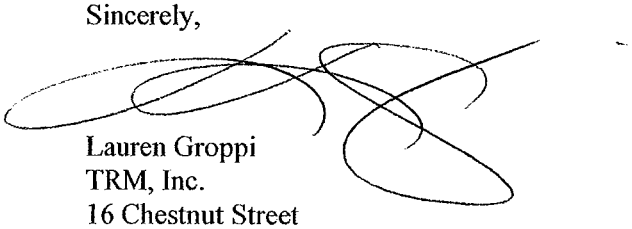
This letter is being sent to you on behalf of AT&T. AT&T filed an Exempt Modification Application with the Connecticut Siting Council on June 19, 2012, seeking acknowledgement to modify their existing installation on the existing Monopole at Town Farm Road, Enfield, CT.

AT&T seeks to install three additional antennas and a surge arrestor on the monopole with accompanying ground equipment.

If you have any questions or concerns, please do not hesitate to contact me.

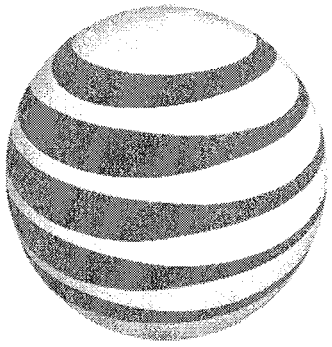
Thank you.

Sincerely,



Lauren Groppi
TRM, Inc.
16 Chestnut Street
Foxborough, MA 02035
lgroppi@trmcom.com

Cc: Linda Roberts, Executive Director, Connecticut Siting Council



at&t

Request of AT&T

For the Acknowledgement to Modify
An Existing Installation on an existing Monopole
Located at Town Farm Road, Enfield, CT

Table of Contents

1. Project Narrative and Summary

2. Exhibits
    A. Site Plan with American Tower Corporation Modification Plan

    B. Structural Analysis

    C. Radio Frequency Electromagnetic Power Density Reports

CONNECTICUT SITING COUNCIL

Request of AT&T	:	
For Acknowledgement of an Exempt	:	
Modification to an Existing Installation	:	June 19, 2012
On an Existing Monopole Located at	:	
Town Farm Road, Enfield, CT	:	

EXEMPT MODIFICATION APPLICATION
TO MODIFY AN INSTALLATION ON AN EXISTING MONOPOLE
AT TOWN FARM ROAD, ENFIELD, CT

1. Introduction

Pursuant to Section 16-50j-72 and 16-50j-73 of the Connecticut General Statutes (the "Statute"), AT&T requests that the Connecticut Siting Council (the "Council") acknowledge this Exempt Modification Application to modify an existing installation on an existing monopole. The existing Monopole is located at Town Farm Road, Enfield, CT and is owned by American Tower Corporation.

The AT&T modification involves adding three (3) antennas on an existing one hundred fifty foot (150') monopole at one hundred fifty four feet (154') centerline above ground level along with accompanying ground equipment.

The modification will not cause substantial adverse environmental effect. The Site is technically feasible, environmentally feasible and avoids the unnecessary siting of additional tower facilities within the Town of Enfield.

2. Proposed AT&T Installation

AT&T is licensed to provide wireless telecommunication services to the State of Connecticut by the Federal Communications Commission ("FCC").

The existing monopole is located at Town Farm Road (Latitude: 41° 57' 57.3" N, Longitude: 72° 33' 9.7" W).

The AT&T installation is proposed at one seventy feet (154') above ground level. The ground equipment will be located within AT&T's existing equipment room. The proposed AT&T installation will not interfere with the other existing facilities.

AT&T intends to install one (1) Commscope SBNH-1D6565C antenna and two (2) P65-16-XHL-RR antennas, six (6) Ericsson RRU11 remote radio heads and one (1) DC6-48-60-18-8F Surge Arrestor on the existing monopole. In addition to the antennas and surge

arrestor, one (1) 3/8" fiber cables will be run to serve all of the new antennas along with two (2) 5/8" DC cables. These cables will be placed on the interior of the monopole along the same route as the existing coax cables.

AT&T proposes to place the ground equipment in the existing equipment room. The ground installation includes one (1) RBS6601 LTE cabinet on a 23" equipment rack. Further details can be seen on the Site Plan attached as Exhibit A.

A. Technical Feasibility

The existing monopole is capable of supporting AT&T's proposed installation with minor modifications. American Tower Corporation performed a structural assessment on the monopole and provided a full report to AT&T. Based on their review, American Tower Corporation determined that the existing monopole will satisfy the requirements of applicable codes and standards, consistent with the requirement of the Statute with minor modifications. The modifications include installing four (4) #20 DYWIDAG Reinforcement Bars from Elevation -7.5 feet to 31.7 feet to the monopole. Please see Exhibit B for the Structural Analysis and Modification Plans.

B. Environmental Feasibility

The proposed installation will have negligible impact. The environmental impact to the Town of East Hartford is reduced by carriers collocating on an existing installation on an existing structure. AT&T proposes to collocate at approximately 154' above ground level on the existing monopole, which will not increase the height of the monopole and have little or no increase in visibility to the Town.

AT&T's proposed installation will not impact wetlands or water resources.

AT&T's proposed facilities will not create air pollutants nor increase the impact on air quality during normal operation of the facility. There will only be a slight increase in noise pollution during site construction.

There will be a small amount of traffic generated at the Site during construction as workers arrive and depart the site and materials are delivered. When construction is complete, the traffic will be minimal with an average of one maintenance visit per month.

C. Public Safety Concerns

The proposed installation will not have an adverse impact to the health and safety of the surrounding residences and businesses.

The total radio frequency electromagnetic power density at the Site will not be increased above the standard adopted by the Connecticut Department of

Environmental Protection as set forth in Section 22a-162 of the Connecticut General Statutes and the MPE limits established by the Federal Communications Commission. These findings are noted in the power density report included as Exhibit C.

With the proposed installation, AT&T will better serve its customers including local residences and businesses. By seeking to expand their LTE network in Connecticut, AT&T will be able to provide more reliable wireless service to their customers in the East Hartford area, fulfilling their coverage goals to comply with their FCC License.

3. Conclusion

The proposed installation will comply with all the requirements set forth by the Statute. In accordance with RCSA § 16-50j-73, the proposed installation does not increase the tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by 6 decibels, nor will it add radio frequency sending or receiving capability to or above the standard adopted by the State Department of Environmental Protection pursuant to Section 22a-162 of the Connecticut General Statutes. Therefore, AT&T respectfully requests that the Council an approval of this Exempt Modification Application at Town Farm Road, Enfield, CT.

Respectfully Submitted,

Lauren Groppi, TRM, Inc.
On behalf of AT&T

Cc: Matthew W. Coppler, Town Manager, Town of Enfield
American Tower Corporation, C/O Andrew Gilbert
Linda Roberts, Executive Director, Connecticut Siting Council

Certificate of Service

This is to certify that on this 19th day of June, 2012 the foregoing Application was sent via first class mail, to the following:

Matthew W. Coppler
Town Manager
820 Enfield Street
Enfield, CT 06082

By: _____
Lauren Groppi

AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure	:	**150 ft ITT Meyer Monopole**
ATC Site Name	:	**Enfd - Enfield, CT**
ATC Site Number	:	**302489**
Proposed Carrier	:	**AT&T Mobility**
Carrier Site Name	:	**Enfield**
Carrier Site Number	:	**10034985**
County	:	**Hartford**
Engineering Number	:	**48982621**
Date	:	**March 26, 2012**
Usage	:	**106%**
Portholes Required	:	**No**
Result	:	**Fail**

Submitted by:
Christopher L. Jolly
Project Engineer

American Tower Engineering Services
400 Regency Forest Drive
Cary, NC 27518
Phone: 919-468-0112

Introduction

The purpose of this report is to summarize results of the structural analysis performed on the 150 ft ITT Meyer Monopole located at 5 town Farm Road, Enfield, Connecticut, 06082, Hartford County (ATC Site No. 302489). The tower was originally designed and manufactured by ITT Meyer (AT&T Spec Sheet AT-8935, Type "B", dated April 13, 1984). The tower has since been modified per design by ATC (Project No. 40071639, dated December 6, 2007).

Analysis

The tower was analyzed using Semaan Engineering Solutions, Inc., Software.

Basic Wind Speed:	97 mph (3-Second Gust)
Radial Ice:	50 mph (3-Second Gust) w/ 1.25" ice
Code:	TIA-222-G / 2003 IBC with 2005 CT Supplement and 2009 CT Amendments

Antenna Loads

The following antenna loads were used in the tower analysis.

Existing Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax	Carrier
154.0	6	ADC DD1900	Platform w/ Handrails	(12) 1 5/8"	AT&T Mobility
	6	Allgon 7770.00			
150.0	1	Decibel DB809KE-SY		(1) 1 5/8"	USA Mobility
144.0	2	Diamond X50A	Side Arms	(2) 1/2"	Enertrac
140.0	6	Andrew Dual Duplex TMA	Low Profile Platform	(14) 1 5/8"	T-Mobile
	3	EMS RR90-17-02DP			
	3	RFS APX16DWV-16DWV-S-E-ACU			
130.0	3	Antel BXA-171085-12CF-EDIN-X	Low Profile Platform	(12) 1 5/8"	Verizon
	3	Antel BXA-70063-4CF-EDIN-10			
	6	Antel LPA-80080/6CF			
	6	RFS FD9R6004/2C-3L			
122.0	3	RFS APXV18-206517S-C	Flush	(6) 1 5/8"	Youghiogheny
112.0	1	24" x 24" Junction Box	Side Arms	(4) 1/2" (6) 5/16" (2) 2" Conduit	Clearwire
	3	Argus LLPX310R			
	2	DragonWave A-ANT-11G-2-C			
	2	DragonWave Horizon Compact			
	3	NextNet BTS-2500			
56.0	1	Channel Master Type 120	Dish	(1) RG6	USA Mobility

Proposed Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax	Carrier
154.0	1	Andrew SBNH-1D6565C	Platform w/ Handrails	--	AT&T Mobility
	2	Powerwave P65-17-XLH-RR			
152.0	6	Ericsson RRUS 11 (Band 12)		(2) 19.7 mm	
	1	Raycap DC6-48-60-18-8F		(1) 10 mm	

Install proposed coax on outside of monopole.

Results

The maximum structure usage is: 106%

Additional exit and/or entry ports may be required to accommodate the running of the proposed lines to the proposed antennas. These additional ports **may not** be installed without installation drawings providing the location, size and welding requirements of each port.

To ensure compliance with all conditions of this structural analysis, port installation drawings shall be provided by American Tower's Engineering Department under a subsequent project.

Pole Reactions	Current Analysis Reactions
Moment (ft-kips)	3,339.0
Shear (kips)	32.2

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information. Factor of safety with respect to bearing and overturning exceed two. Therefore no modification or reinforcement of the foundation will be required. These calculations are located after the software output within this analysis.

Conclusion

Based on the analysis results, the structure does not meet the requirements per the TIA-222-G standard and the 2003 IBC with 2005 CT Supplements and 2009 CT Amendments. The tower and foundation can support the existing and proposed equipment after the modifications listed below are completed.

- Add additional reinforcement from 0' to 20'.

If you have any questions or require additional information, please call 919-466-5007.

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, the antenna 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 Engineering Services 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.

All services will be performed to the codes specified by the client, and we do not imply to meet any other codes or requirements unless explicitly agreed in writing. 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. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/EIA-222.

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

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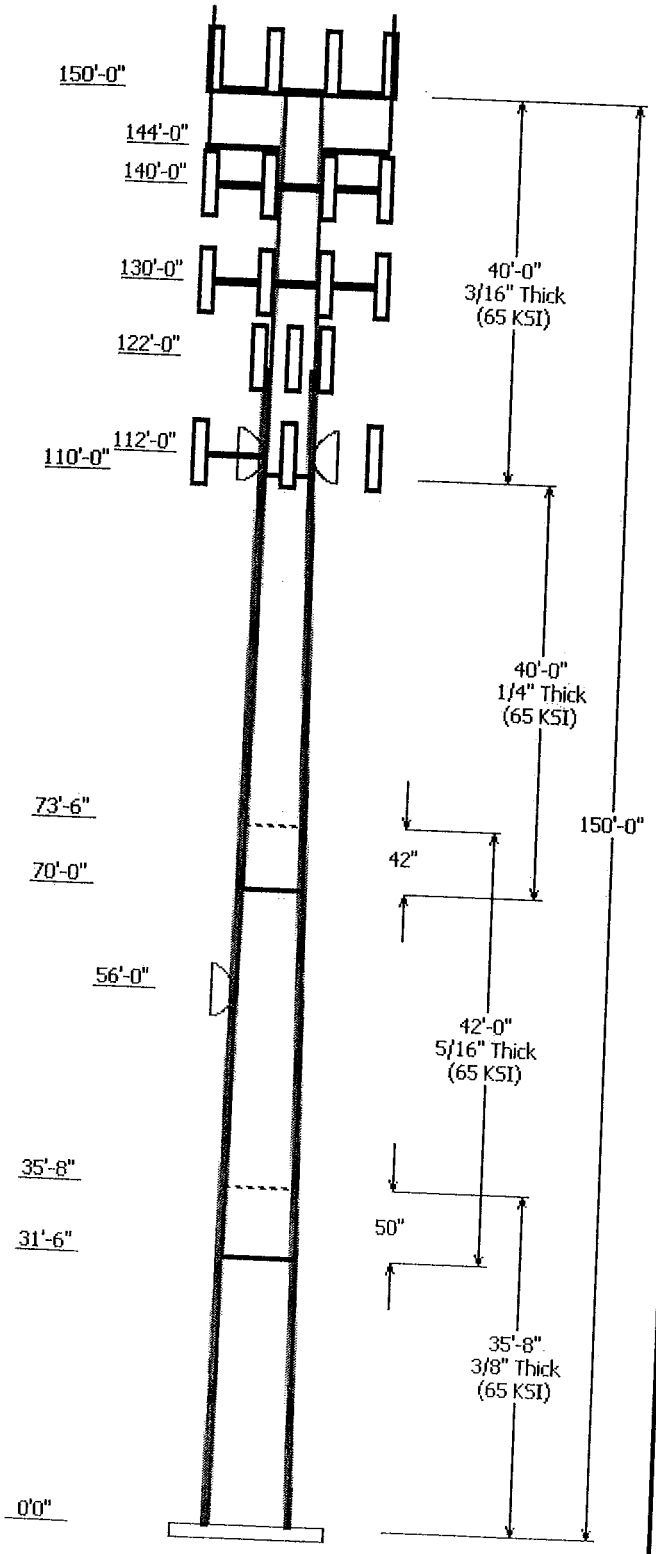
Job Information

Pole :	302489	Code: ANSI/TIA-222 Rev G	
Description :	150' ITT Meyer Type "B" Monopole		Struct Class : II
Client :	AT&T Mobility		Exposure : B
Location :	Enfd - Enfield, CT		Topo : 1
Shape :	12 Sides	Base Elev (ft): 0.00	
Height :	150.00 (ft)	Taper: 0.156700(in/ft)	



Sections Properties

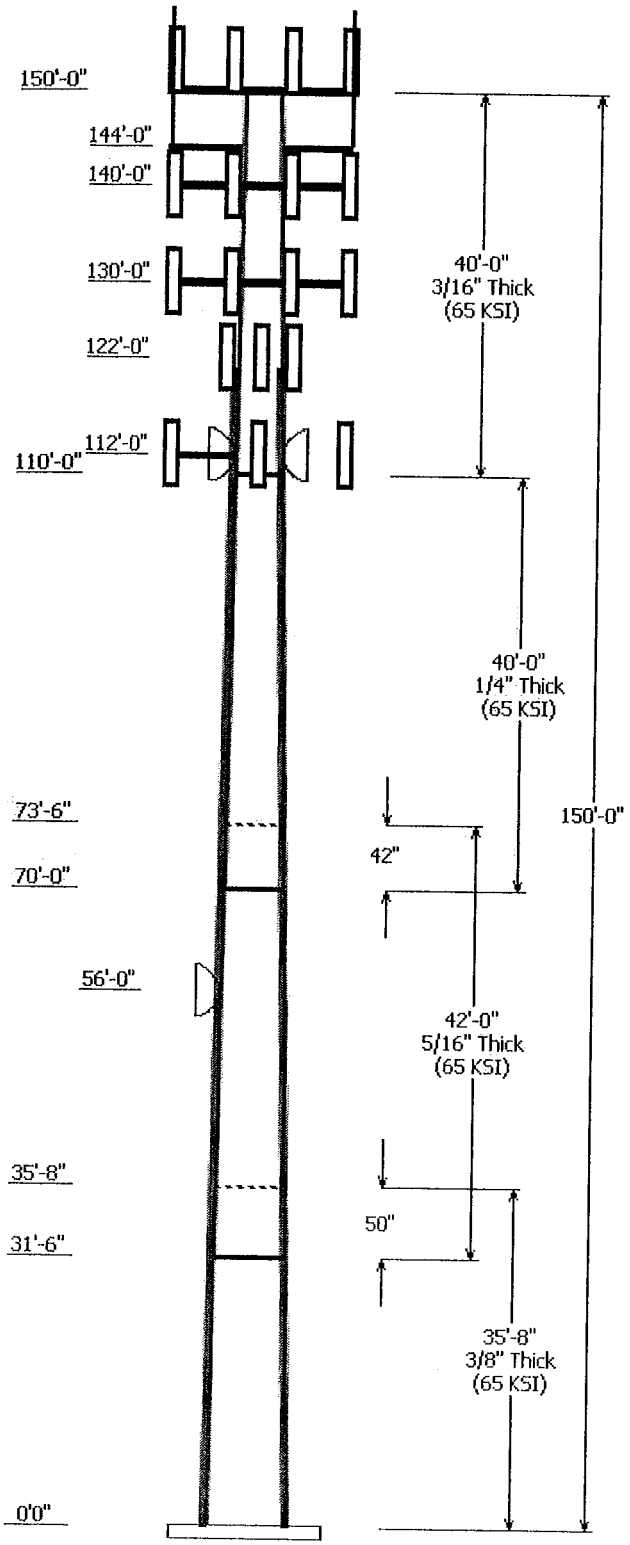
Shaft Section	Length (ft)	Diameter (in) Across Flats Top	Bottom	Thick (in)	Joint Type	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
1	35.667	31.79	37.38	0.375		0.000	0.156700	65
2	42.000	26.48	33.06	0.313	Slip Joint	50.000	0.156700	65
3	40.000	21.26	27.53	0.250	Slip Joint	42.000	0.156700	65
4	40.000	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	155.000	1	Andrew SBNH-1D6565C
150.000	155.000	2	Powerwave P65-17-XLH-RR
150.000	152.000	6	Ericsson RRUS 11
150.000	152.000	1	Raycap DC6-48-60-18-8F
150.000	155.000	6	ADC DD1900
150.000	155.000	6	Allgon 7770.00
150.000	155.667	1	Decibel DB809KE-SY
150.000	150.000	1	Flat Platform w/ Handrails
144.000	144.000	2	Flat Side Arm
144.000	146.800	2	Diamond X50A
140.000	140.000	6	Andrew Dual Duplex TMA
140.000	140.000	3	RFS APX16DWV-16DWV-S-E-
140.000	140.000	3	EMS RR90-17-02DP
140.000	140.000	1	Flat Low Profile Platform
130.000	130.000	1	Round Low Profile Platform
130.000	130.000	6	Antel LPA-80080/6CF
130.000	130.000	6	RFS FD9R6004/2C-3L
130.000	130.000	3	Antel BXA-171085-12CF-EDIN-X
130.000	130.000	3	Antel BXA-70063-4CF-EDIN-10
122.000	122.000	1	Flush Mounts
122.000	122.000	3	RFS APXV18-206517S-C
112.000	112.000	1	24" x 24" Junction Box
112.000	112.000	2	DragonWave Horizon Compact
112.000	112.000	2	DragonWave A-ANT-11G-2-C
112.000	112.000	3	Argus LLPX310R
112.000	112.000	3	NextNet BTS-2500
112.000	112.000	1	Collar
56.000	56.000	1	Channel Master Type 120

Linear Appurtenance

Elev (ft) From	To	Description	Exposed To Wind
0.000	56.000	RG6	Yes
0.000	112.0	1/2" Coax	Yes
0.000	112.0	2" Cond.	Yes
0.000	112.0	5/16" Coax	No
0.000	122.0	1 5/8" Coax	Yes
0.000	125.5	#20 Dywidag bars	Yes
0.000	130.0	1 5/8" Coax	Yes
0.000	140.0	1 5/8" Coax	Yes
0.000	140.0	1 5/8" Coax	Yes
0.000	144.0	1/2" Coax	Yes
0.000	150.0	1 5/8" Coax	No
0.000	150.0	1 5/8" Coax	No



0.000	150.0	1 5/8" Coax	Yes
0.000	150.0	10 mm Cable	Yes
0.000	150.0	19.7 mm Cable	Yes

Load Cases

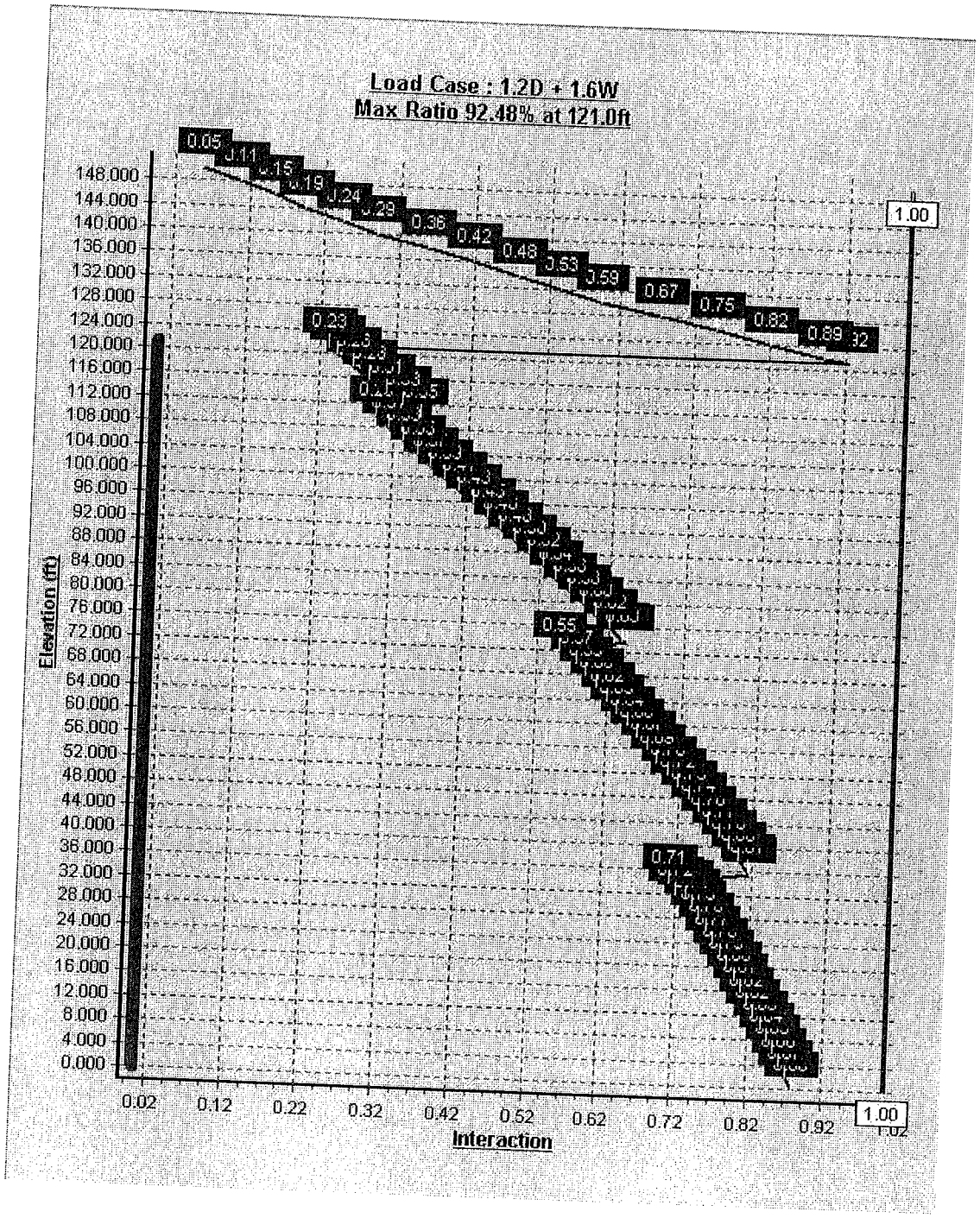
1.2D + 1.6W	97.00 mph with No Ice
0.9D + 1.6W	97.00 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50.00 mph with 1.00 in Radial Ice
1.0D + 1.0W	60.00 mph Serviceability

Reactions

Load Case	Moment (Kip-ft)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W	3338.97	32.15	50.36
0.9D + 1.6W	3281.13	32.14	39.78
1.2D + 1.0Di + 1.0Wi	1009.83	8.44	107.07
1.0D + 1.0W	811.22	7.90	43.34

Dish Deflections

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	56.00	5.930	1.013
1.0D + 1.0W	112.00	23.198	1.863


Load Case : 1.2D + 1.6W
Max Ratio 92.48% at 121.0ft
Elevation (ft)
148.000
144.000
140.000
136.000
132.000
128.000
124.000
120.000
116.000
112.000
108.000
104.000
100.000
96.000
92.000
88.000
84.000
80.000
76.000
72.000
68.000
64.000
60.000
56.000
52.000
48.000
44.000
40.000
36.000
32.000
28.000
24.000
20.000
16.000
12.000
8.000
4.000
0.000
0.05
0.11
0.15
0.19
0.24
0.29
0.36
0.42
0.48
0.53
0.59
0.67
0.75
0.82
0.89
0.23
0.55
0.71
1.00
0.02
0.12
0.22
0.32
0.42
0.52
0.62
0.72
0.82
0.92
1.00
Interaction

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:33 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 1
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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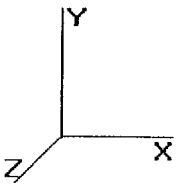


Shaft Section Properties

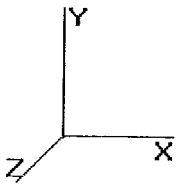
Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint Len (in)	Weight (lb)	Bottom Dia (in)	Bottom Elev (ft)	Bottom Area (sqin)	Bottom Ix (in^4)	Bottom W/t Ratio	Bottom D/t Ratio	Top Dia (in)	Top Elev (ft)	Top Area (sqin)	Top Ix (in^4)	Top W/t Ratio	Top D/t Ratio	Taper (in/ft)
1-12	35.667	0.3750	65		0.00	5,014	37.38	0.00	44.68	7810.1	24.57	99.68	31.79	35.67	37.93	4778.9	20.57	84.78	0.156700
2-12	42.000	0.3125	65	Slip	50.00	4,237	33.06	31.50	32.96	4514.2	26.21	105.82	26.48	73.50	26.34	2303.3	20.57	84.76	0.156700
3-12	40.000	0.2500	65	Slip	42.00	2,646	27.53	70.00	21.97	2087.4	27.37	110.14	21.26	110.00	16.92	954.0	20.65	85.07	0.156700
4-12	40.000	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 Weight (lb)	No Ice CaAa (sf)	No Ice CaAa Factor	Ice Weight (lb)	Ice CaAa (sf)	Ice CaAa Factor	Distance From Face (ft)	Vert Ecc (ft)
150.00	ADC DD1900	6	12.10	1.280	0.50	62.43	1.716	0.50	0.000	5.000
150.00	Allgon 7770.00	6	35.00	5.510	0.65	229.00	6.946	0.66	0.000	5.000
150.00	Andrew SBNH-1D6565C	1	66.10	11.450	0.75	439.21	13.677	0.75	0.000	5.000
150.00	Decibel DB809KE-SY	1	26.00	3.400	1.00	253.36	7.871	1.00	0.000	5.667
150.00	Ericsson RRUS 11	6	55.00	2.940	0.50	171.00	3.408	0.50	0.000	2.000
150.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,898.78	70.420	1.00	0.000	0.000
150.00	Powerwave P65-17-XLH-RR	2	59.00	11.470	0.85	413.76	13.695	0.85	0.000	5.000
150.00	Raycap DC6-48-60-18-8F	1	31.80	1.470	1.00	165.24	3.097	1.00	0.000	2.000
144.00	Diamond X50A	2	2.30	1.120	1.00	96.07	2.929	1.00	0.000	2.800
144.00	Flat Side Arm	2	150.00	6.300	1.00	247.33	9.570	1.00	0.000	0.000
140.00	Andrew Dual Duplex TMA	6	11.00	0.670	0.50	47.21	1.051	0.50	0.000	0.000
140.00	EMS RR90-17-02DP	3	18.00	4.360	0.64	160.97	5.711	0.64	0.000	0.000
140.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	2,359.68	51.433	1.00	0.000	0.000
140.00	RFS APX16DWV-16DWV-S-E-	3	39.60	6.080	0.66	225.67	7.537	0.69	0.000	0.000
130.00	Antel BXA-171085-12CF-EDIN-	3	15.00	4.790	0.72	187.98	6.444	0.72	0.000	0.000
130.00	Antel BXA-70063-4CF-EDIN-10	3	9.90	4.710	0.77	180.78	5.999	0.79	0.000	0.000
130.00	Antel LPA-80080/6CF	6	21.00	4.320	1.50	293.23	5.929	1.43	0.000	0.000
130.00	RFS FD9R6004/2C-3L	6	2.60	0.370	0.50	23.49	0.691	0.50	0.000	0.000
130.00	Round Low Profile Platform	1	1500.00	21.700	1.00	2,353.33	46.986	1.00	0.000	0.000
122.00	Flush Mounts	1	200.00	3.500	1.00	655.87	8.287	1.00	0.000	0.000
122.00	RFS APXV18-206517S-C	3	26.40	5.170	0.80	194.28	6.817	0.82	0.000	0.000
112.00	24" x 24" Junction Box	1	20.00	4.800	1.00	200.69	5.954	1.00	0.000	0.000
112.00	Argus LLPX310R	3	5.36	4.290	0.73	155.01	5.479	0.73	0.000	0.000
112.00	Collar	1	40.00	8.500	1.00	83.39	17.721	1.00	0.000	0.000
112.00	DragonWave A-ANT-11G-2-C	2	27.00	4.690	0.90	153.46	6.344	0.90	0.000	0.000
112.00	DragonWave Horizon	2	10.60	0.430	0.50	54.49	0.771	0.50	0.000	0.000
112.00	NextNet BTS-2500	3	35.00	1.820	0.67	116.42	2.589	0.67	0.000	0.000
56.00	Channel Master Type 120	1	126.00	20.190	1.00	375.00	23.834	1.00	0.000	0.000
	Totals	77	7275.68			21,336.19			Number of Loadings :	28

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Exposed Width (in)	Exposed To Wind
0.00	150.00	(1) 1 5/8" Coax	0.00	N
0.00	150.00	(4) 1 5/8" Coax	0.00	N
0.00	150.00	(8) 1 5/8" Coax	3.96	Y
0.00	150.00	(1) 10 mm Cable	0.00	Y
0.00	150.00	(2) 19.7 mm Cable	0.00	Y



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0.00	144.00	(2) 1/2" Coax	0.63	Y
0.00	140.00	(6) 1 5/8" Coax	0.00	Y
0.00	140.00	(8) 1 5/8" Coax	5.94	Y
0.00	130.00	(12) 1 5/8" Coax	1.98	Y
0.00	125.51	(4) #20 Dywidag bars	0.00	Y
0.00	122.00	(6) 1 5/8" Coax	0.00	Y
0.00	112.00	(4) 1/2" Coax	0.00	Y
0.00	112.00	(2) 2" Cond.	0.00	Y
0.00	112.00	(6) 5/16" Coax	0.00	N
0.00	56.00	(1) RG6	0.00	Y

Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	— Intermediate Connections — Description	Spacing (in)	Len (in)	Connectors	Continuation?
0.00	121.0	4	SOL #20 All Thread	80	2.19	6" Angle Bracket	30.0	3.31	5/8" A36 U-Bolt	No

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:33 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 3
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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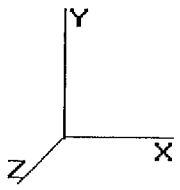
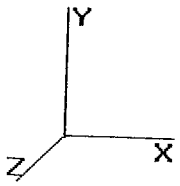


Segment Properties (Max Len : 2 ft)

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)	Additional Reinforcing Ix (in^4)	Additional Reinforcing Weight (lb)
0.00		0.3750	37.380	44.684	7,810.1	24.57	99.68	77.9	403.6	0.0	19.64	4,958	0.0
2.00		0.3750	37.067	44.305	7,613.3	24.34	98.84	78.2	396.8	302.8	19.64	4,887	133.6
4.00		0.3750	36.753	43.927	7,419.9	24.12	98.01	78.4	390.0	300.2	19.64	4,816	133.6
6.00		0.3750	36.440	43.548	7,229.8	23.89	97.17	78.7	383.3	297.7	19.64	4,746	133.6
8.00		0.3750	36.126	43.170	7,042.9	23.67	96.34	78.9	376.6	295.1	19.64	4,676	133.6
10.00		0.3750	35.813	42.791	6,859.3	23.45	95.50	79.1	370.0	292.5	19.64	4,607	133.6
12.00		0.3750	35.500	42.413	6,678.9	23.22	94.67	79.4	363.5	289.9	19.64	4,539	133.6
14.00		0.3750	35.186	42.035	6,501.7	23.00	93.83	79.6	357.0	287.4	19.64	4,470	133.6
16.00		0.3750	34.873	41.656	6,327.7	22.77	92.99	79.9	350.5	284.8	19.64	4,403	133.6
18.00		0.3750	34.559	41.278	6,156.8	22.55	92.16	80.1	344.2	282.2	19.64	4,336	133.6
20.00		0.3750	34.246	40.899	5,989.0	22.33	91.32	80.4	337.8	279.6	19.64	4,269	133.6
22.00		0.3750	33.933	40.521	5,824.3	22.10	90.49	80.6	331.6	277.1	19.64	4,203	133.6
24.00		0.3750	33.619	40.142	5,662.7	21.88	89.65	80.9	325.4	274.5	19.64	4,137	133.6
26.00		0.3750	33.306	39.764	5,504.0	21.65	88.82	81.1	319.3	271.9	19.64	4,072	133.6
28.00		0.3750	32.992	39.386	5,348.4	21.43	87.98	81.3	313.2	269.3	19.64	4,008	133.6
30.00		0.3750	32.679	39.007	5,195.7	21.21	87.14	81.6	307.1	266.8	19.64	3,943	133.6
31.50	Bot - Section 2	0.3750	32.444	38.723	5,083.1	21.04	86.52	81.8	302.7	198.4	19.64	3,896	100.2
32.00		0.3750	32.366	38.629	5,045.9	20.98	86.31	81.8	301.2	121.7	19.64	4,007	33.4
34.00		0.3750	32.052	38.250	4,899.1	20.76	85.47	81.9	295.3	484.3	19.64	3,943	133.6
35.67	Top - Section 1	0.3125	32.416	32.304	4,249.6	25.65	103.73	76.7	253.3	400.1	19.64	3,890	111.4
36.00		0.3125	32.364	32.252	4,228.9	25.61	103.56	76.8	252.4	36.6	19.64	3,880	22.2
38.00		0.3125	32.050	31.936	4,106.1	25.34	102.56	77.1	247.5	218.4	19.64	3,817	133.6
40.00		0.3125	31.737	31.621	3,985.6	25.07	101.56	77.4	242.6	216.3	19.64	3,754	133.6
42.00		0.3125	31.424	31.306	3,867.6	24.80	100.56	77.7	237.8	214.1	19.64	3,692	133.6
44.00		0.3125	31.110	30.990	3,751.9	24.53	99.55	78.0	233.0	212.0	19.64	3,631	133.6
46.00		0.3125	30.797	30.675	3,638.5	24.26	98.55	78.3	228.2	209.8	19.64	3,570	133.6
48.00		0.3125	30.483	30.359	3,527.4	23.99	97.55	78.5	223.5	207.7	19.64	3,509	133.6
50.00		0.3125	30.170	30.044	3,418.6	23.73	96.54	78.8	218.9	205.5	19.64	3,449	133.6
52.00		0.3125	29.857	29.729	3,312.1	23.46	95.54	79.1	214.3	203.4	19.64	3,390	133.6
54.00		0.3125	29.543	29.413	3,207.8	23.19	94.54	79.4	209.8	201.2	19.64	3,331	133.6
56.00		0.3125	29.230	29.098	3,105.7	22.92	93.54	79.7	205.3	199.1	19.64	3,273	133.6
58.00		0.3125	28.916	28.783	3,005.9	22.65	92.53	80.0	200.8	197.0	19.64	3,215	133.6
60.00		0.3125	28.603	28.467	2,908.1	22.38	91.53	80.3	196.4	194.8	19.64	3,158	133.6
62.00		0.3125	28.290	28.152	2,812.5	22.11	90.53	80.6	192.1	192.7	19.64	3,101	133.6
64.00		0.3125	27.976	27.837	2,719.1	21.84	89.52	80.9	187.8	190.5	19.64	3,044	133.6
66.00		0.3125	27.663	27.521	2,627.7	21.58	88.52	81.2	183.5	188.4	19.64	2,989	133.6
68.00		0.3125	27.349	27.206	2,538.4	21.31	87.52	81.5	179.3	186.2	19.64	2,933	133.6
70.00		0.3125	27.036	26.891	2,451.2	21.04	86.52	81.8	175.1	184.1	19.64	2,879	133.6
70.00	Bot - Section 3	0.3125	27.036	26.890	2,451.1	21.04	86.52	81.8	175.1	0.0	19.64	2,879	0.0
72.00		0.3125	26.723	26.575	2,365.9	20.77	85.51	81.9	171.0	330.5	19.64	2,911	133.6
73.50	Top - Section 2	0.2500	26.987	21.524	1,964.0	26.78	107.95	75.5	140.6	245.4	19.64	2,870	100.2
74.00		0.2500	26.909	21.461	1,946.8	26.70	107.64	75.6	139.8	36.5	19.64	2,857	33.4
76.00		0.2500	26.596	21.208	1,879.0	26.36	106.38	76.0	136.5	145.2	19.64	2,803	133.6
78.00		0.2500	26.282	20.956	1,812.7	26.03	105.13	76.3	133.2	143.5	19.64	2,749	133.6
80.00		0.2500	25.969	20.704	1,748.0	25.69	103.88	76.7	130.0	141.8	19.64	2,696	133.6
82.00		0.2500	25.656	20.452	1,684.9	25.35	102.62	77.1	126.9	140.0	19.64	2,644	133.6
84.00		0.2500	25.342	20.199	1,623.3	25.02	101.37	77.4	123.7	138.3	19.64	2,592	133.6
86.00		0.2500	25.029	19.947	1,563.2	24.68	100.12	77.8	120.7	136.6	19.64	2,540	133.6
88.00		0.2500	24.715	19.695	1,504.7	24.35	98.86	78.2	117.6	134.9	19.64	2,489	133.6
90.00		0.2500	24.402	19.442	1,447.6	24.01	97.61	78.5	114.6	133.2	19.64	2,439	133.6
92.00		0.2500	24.089	19.190	1,392.0	23.67	96.35	78.9	111.6	131.5	19.64	2,389	133.6
94.00		0.2500	23.775	18.938	1,337.8	23.34	95.10	79.3	108.7	129.7	19.64	2,340	133.6
96.00		0.2500	23.462	18.685	1,285.0	23.00	93.85	79.6	105.8	128.0	19.64	2,291	133.6
98.00		0.2500	23.148	18.433	1,233.7	22.67	92.59	80.0	103.0	126.3	19.64	2,243	133.6
100.0		0.2500	22.835	18.181	1,183.7	22.33	91.34	80.4	100.1	124.6	19.64	2,195	133.6
102.0		0.2500	22.522	17.929	1,135.1	21.99	90.09	80.7	97.4	122.9	19.64	2,147	133.6
104.0		0.2500	22.208	17.676	1,087.9	21.66	88.83	81.1	94.6	121.2	19.64	2,101	133.6
106.0		0.2500	21.895	17.424	1,041.9	21.32	87.58	81.5	91.9	119.4	19.64	2,054	133.6

Pole : 302489
Location : Enfd - Enfield, 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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108.0													
110.0		0.2500	21.581	17.172	997.3	20.99	86.33	81.8	89.3	117.7	19.64	2,009	133.6
110.0	Top - Section 3	0.2500	21.268	16.919	954.0	20.65	85.07	81.9	86.7	116.0	19.64	1,963	133.6
110.0	Bot - Section 4	0.2500	21.268	16.919	954.0	20.65	85.07	81.9	86.7	0.0	19.64	1,963	0.0
112.0		0.1875	21.268	12.727	721.9	28.25	113.43	73.9	65.6		19.64	1,963	
114.0		0.1875	20.955	12.538	690.2	27.80	111.76	74.4	63.6	86.0	19.64	1,919	133.6
116.0		0.1875	20.641	12.349	659.4	27.35	110.09	74.9	61.7	84.7	19.64	1,875	133.6
118.0		0.1875	20.328	12.160	629.6	26.91	108.41	75.4	59.8	83.4	19.64	1,831	133.6
120.0		0.1875	20.014	11.970	600.6	26.46	106.74	75.9	58.0	82.1	19.64	1,788	133.6
121.0	Reinf. Top	0.1875	19.701	11.781	572.6	26.01	105.07	76.3	56.1	80.8	19.64	1,745	133.6
122.0		0.1875	19.544	11.687	558.9	25.79	104.24	76.6	55.2	39.9	19.64	1,724	66.8
124.0		0.1875	19.388	11.592	545.4	25.56	103.40	76.8	54.4	39.6			
126.0		0.1875	19.074	11.403	519.2	25.11	101.73	77.3	52.6	78.2			
128.0		0.1875	18.761	11.214	493.8	24.67	100.06	77.8	50.8	77.0			
130.0		0.1875	18.447	11.024	469.2	24.22	98.39	78.3	49.1	75.7			
132.0		0.1875	18.134	10.835	445.4	23.77	96.71	78.8	47.5	74.4			
134.0		0.1875	17.821	10.646	422.5	23.32	95.04	79.3	45.8	73.1			
136.0		0.1875	17.507	10.457	400.4	22.88	93.37	79.8	44.2	71.8			
138.0		0.1875	17.194	10.268	379.0	22.43	91.70	80.3	42.6	70.5			
140.0		0.1875	16.880	10.078	358.5	21.98	90.03	80.7	41.0	69.2			
142.0		0.1875	16.567	9.889	338.6	21.53	88.36	81.2	39.5	67.9			
144.0		0.1875	16.254	9.700	319.6	21.08	86.69	81.7	38.0	66.7			
146.0		0.1875	15.940	9.511	301.2	20.64	85.01	81.9	36.5	65.4			
148.0		0.1875	15.627	9.321	283.6	20.19	83.34	81.9	35.1	64.1			
150.0		0.1875	15.313	9.132	266.7	19.74	81.67	81.9	33.6	62.8			
		0.1875	15.000	8.943	250.5	19.29	80.00	81.9	32.3	61.5			
										13,372.1			8,082.8

Pole : 302489
Location : Enfd - Enfield, 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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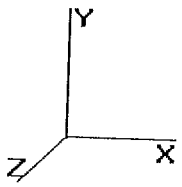


Load Case: 1.2D + 1.6W — 97.00 mph with No Ice

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

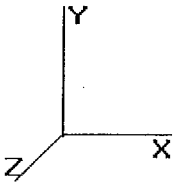
31 Iterations
Wind Importance Factor : 1.00

Shaft Segment Forces (Factored)

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)		Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	16.018	17.62	261.71	1.000		0.000	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.70	16.018	17.62	259.52	1.200	*	0.000	2.00	6.423	7.71	217.3	0.0	497.0
4.00		1.00	0.70	16.018	17.62	257.33	1.200	*	0.000	2.00	6.369	7.64	215.5	0.0	493.9
6.00		1.00	0.70	16.018	17.62	255.13	1.200	*	0.000	2.00	6.315	7.58	213.6	0.0	490.8
8.00		1.00	0.70	16.018	17.62	252.94	1.200	*	0.000	2.00	6.261	7.51	211.8	0.0	487.7
10.00		1.00	0.70	16.018	17.62	250.74	1.200	*	0.000	2.00	6.206	7.45	210.0	0.0	484.6
12.00		1.00	0.70	16.018	17.62	248.55	1.200	*	0.000	2.00	6.152	7.38	208.1	0.0	481.5
14.00		1.00	0.70	16.018	17.62	246.35	1.200	*	0.000	2.00	6.098	7.32	206.3	0.0	478.4
16.00		1.00	0.70	16.018	17.62	244.16	1.200	*	0.000	2.00	6.044	7.25	204.5	0.0	475.3
18.00		1.00	0.70	16.018	17.62	241.97	1.200	*	0.000	2.00	5.990	7.19	202.6	0.0	472.2
20.00		1.00	0.70	16.018	17.62	239.77	1.200	*	0.000	2.00	5.936	7.12	200.8	0.0	469.2
22.00		1.00	0.70	16.018	17.62	237.58	1.200	*	0.000	2.00	5.882	7.06	199.0	0.0	466.1
24.00		1.00	0.70	16.018	17.62	235.38	1.200	*	0.000	2.00	5.828	6.99	197.2	0.0	463.0
26.00		1.00	0.70	16.018	17.62	233.19	1.200	*	0.000	2.00	5.774	6.93	195.3	0.0	459.9
28.00		1.00	0.70	16.018	17.62	230.99	1.200	*	0.000	2.00	5.720	6.86	193.5	0.0	456.8
30.00		1.00	0.70	16.031	17.63	228.90	1.200	*	0.000	2.00	5.666	6.80	191.8	0.0	453.7
31.50	Bot - Section 2	1.00	0.71	16.257	17.88	228.84	1.200	*	0.000	1.50	4.215	5.06	144.7	0.0	338.3
32.00		1.00	0.71	16.330	17.96	228.80	1.200	*	0.000	0.50	1.424	1.71	49.1	0.0	179.5
34.00		1.00	0.72	16.615	18.27	228.56	1.200	*	0.000	2.00	5.665	6.80	198.8	0.0	714.8
35.67	Top - Section 1	1.00	0.73	16.844	18.52	228.25	1.200	*	0.000	1.67	4.681	5.62	166.5	0.0	591.4
36.00		1.00	0.73	16.889	18.57	232.67	1.200	*	0.000	0.33	0.931	1.12	33.2	0.0	66.1
38.00		1.00	0.75	17.152	18.86	232.20	1.200	*	0.000	2.00	5.557	6.67	201.3	0.0	395.7
40.00		1.00	0.76	17.405	19.14	231.62	1.200	*	0.000	2.00	5.503	6.60	202.3	0.0	393.1
42.00		1.00	0.77	17.649	19.41	230.94	1.200	*	0.000	2.00	5.449	6.54	203.1	0.0	390.5
44.00		1.00	0.78	17.885	19.67	230.16	1.200	*	0.000	2.00	5.395	6.47	203.8	0.0	388.0
46.00		1.00	0.79	18.114	19.92	229.30	1.200	*	0.000	2.00	5.341	6.41	204.3	0.0	385.4
48.00		1.00	0.80	18.335	20.16	228.35	1.200	*	0.000	2.00	5.287	6.34	204.7	0.0	382.8
50.00		1.00	0.81	18.551	20.40	227.32	1.200	*	0.000	2.00	5.233	6.28	205.0	0.0	380.2
52.00		1.00	0.82	18.760	20.63	226.22	1.200	*	0.000	2.00	5.179	6.21	205.2	0.0	377.7
54.00		1.00	0.82	18.963	20.85	225.06	1.200	*	0.000	2.00	5.125	6.15	205.2	0.0	375.1
56.00	Appertunance(s)	1.00	0.83	19.161	21.07	223.83	1.200	*	0.000	2.00	5.071	6.08	205.2	0.0	372.5
58.00		1.00	0.84	19.354	21.29	222.54	1.200	*	0.000	2.00	5.016	6.02	205.1	0.0	369.9
60.00		1.00	0.85	19.543	21.49	221.20	1.200	*	0.000	2.00	4.962	5.95	204.8	0.0	367.4
62.00		1.00	0.86	19.726	21.69	219.80	1.200	*	0.000	2.00	4.908	5.89	204.5	0.0	364.8
64.00		1.00	0.87	19.906	21.89	218.36	1.200	*	0.000	2.00	4.854	5.83	204.1	0.0	362.2
66.00		1.00	0.87	20.082	22.09	216.86	1.200	*	0.000	2.00	4.800	5.76	203.6	0.0	359.6
68.00		1.00	0.88	20.254	22.27	215.32	1.200	*	0.000	2.00	4.746	5.70	203.0	0.0	357.1
70.00		1.00	0.89	20.422	22.46	213.74	1.200	*	0.000	2.00	4.692	5.63	202.4	0.0	354.5
70.00	Bot - Section 3	1.00	0.89	20.422	22.46	213.74	1.200	*	0.000	0.00	0.001	0.00	0.0	0.0	0.1
72.00		1.00	0.90	20.587	22.64	212.11	1.200	*	0.000	2.00	4.723	5.67	205.4	0.0	530.2
73.50	Top - Section 2	1.00	0.90	20.709	22.78	210.87	1.200	*	0.000	1.50	3.508	4.21	153.5	0.0	394.7
74.00		1.00	0.90	20.749	22.82	214.43	1.200	*	0.000	0.50	1.162	1.39	50.9	0.0	77.2
76.00		1.00	0.91	20.908	22.99	212.74	1.200	*	0.000	2.00	4.616	5.54	203.8	0.0	307.8
78.00		1.00	0.92	21.064	23.17	211.02	1.200	*	0.000	2.00	4.562	5.47	202.9	0.0	305.8
80.00		1.00	0.92	21.217	23.33	209.26	1.200	*	0.000	2.00	4.508	5.41	202.0	0.0	303.7
82.00		1.00	0.93	21.367	23.50	207.46	1.200	*	0.000	2.00	4.454	5.34	201.0	0.0	301.6
84.00		1.00	0.94	21.514	23.66	205.63	1.200	*	0.000	2.00	4.400	5.28	199.9	0.0	299.6
86.00		1.00	0.94	21.660	23.82	203.77	1.200	*	0.000	2.00	4.346	5.21	198.8	0.0	297.5
88.00		1.00	0.95	21.802	23.98	201.88	1.200	*	0.000	2.00	4.292	5.15	197.6	0.0	295.5
90.00		1.00	0.95	21.943	24.13	199.97	1.200	*	0.000	2.00	4.238	5.09	196.4	0.0	293.4
92.00		1.00	0.96	22.081	24.28	198.02	1.200	*	0.000	2.00	4.183	5.02	195.1	0.0	291.3

Pole : 302489
Location : Enfd - Enfield, 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 — 97.00 mph with No Ice — 31 Iterations

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

Wind Importance Factor : 1.00

94.00		1.00	0.97	22.217	24.43	196.04	1.200 *	0.000	2.00	4.129	4.96	193.8	0.0	289.3
96.00		1.00	0.97	22.351	24.58	194.04	1.200 *	0.000	2.00	4.075	4.89	192.4	0.0	287.2
98.00		1.00	0.98	22.483	24.73	192.01	1.200 *	0.000	2.00	4.021	4.83	190.9	0.0	285.2
100.0		1.00	0.98	22.613	24.87	189.96	1.200 *	0.000	2.00	3.967	4.76	189.5	0.0	283.1
102.0		1.00	0.99	22.742	25.01	187.89	1.200 *	0.000	2.00	3.913	4.70	187.9	0.0	281.0
104.0		1.00	0.99	22.868	25.15	185.79	1.200 *	0.000	2.00	3.859	4.63	186.4	0.0	279.0
106.0		1.00	1.00	22.993	25.29	183.66	1.200 *	0.000	2.00	3.805	4.57	184.8	0.0	276.9
108.0		1.00	1.01	23.116	25.42	181.52	1.200 *	0.000	2.00	3.751	4.50	183.1	0.0	274.9
110.0		1.00	1.01	23.238	25.56	179.35	1.200 *	0.000	2.00	3.697	4.44	181.4	0.0	272.8
110.0	Top - Section 3	1.00	1.01	23.238	25.56	179.35	1.200 *	0.000	0.00	0.001	0.00	0.0	0.0	0.0
112.0	Appertunance(s)	1.00	1.02	23.358	25.69	177.16	1.200 *	0.000	2.00	3.642	4.37	179.7	0.0	236.7
114.0		1.00	1.02	23.476	25.82	174.96	1.200 *	0.000	2.00	3.589	4.31	177.9	0.0	235.2
116.0		1.00	1.03	23.593	25.95	172.73	1.200 *	0.000	2.00	3.535	4.24	176.1	0.0	233.7
118.0		1.00	1.03	23.708	26.07	170.48	1.200 *	0.000	2.00	3.480	4.18	174.3	0.0	232.1
120.0		1.00	1.04	23.823	26.20	168.21	1.200 *	0.000	2.00	3.426	4.11	172.4	0.0	230.6
121.0	Reinf. Top	1.00	1.04	23.879	26.26	167.07	1.200 *	0.000	1.00	1.693	2.03	85.4	0.0	114.7
122.0	Appertunance(s)	1.00	1.04	23.935	26.32	165.93	1.200 *	0.000	1.00	1.679	2.02	84.9	0.0	47.5
124.0		1.00	1.05	24.047	26.45	163.63	1.200 *	0.000	2.00	3.318	3.98	168.5	0.0	93.9
126.0		1.00	1.05	24.157	26.57	161.31	1.200 *	0.000	2.00	3.264	3.92	166.5	0.0	92.4
128.0		1.00	1.06	24.266	26.69	158.97	1.200 *	0.000	2.00	3.210	3.85	164.5	0.0	90.8
130.0	Appertunance(s)	1.00	1.06	24.374	26.81	156.62	1.200 *	0.000	2.00	3.156	3.79	162.5	0.0	89.3
132.0		1.00	1.07	24.480	26.92	154.24	1.200 *	0.000	2.00	3.102	3.72	160.4	0.0	87.7
134.0		1.00	1.07	24.586	27.04	151.86	1.200 *	0.000	2.00	3.048	3.66	158.3	0.0	86.2
136.0		1.00	1.07	24.690	27.15	149.46	1.200 *	0.000	2.00	2.994	3.59	156.1	0.0	84.6
138.0		1.00	1.08	24.793	27.27	147.04	1.200 *	0.000	2.00	2.940	3.53	153.9	0.0	83.1
140.0	Appertunance(s)	1.00	1.08	24.895	27.38	144.60	1.200 *	0.000	2.00	2.886	3.46	151.7	0.0	81.5
142.0		1.00	1.09	24.996	27.49	142.16	1.200 *	0.000	2.00	2.832	3.40	149.5	0.0	80.0
144.0	Appertunance(s)	1.00	1.09	25.096	27.60	139.69	1.200 *	0.000	2.00	2.777	3.33	147.2	0.0	78.4
146.0		1.00	1.10	25.196	27.71	137.22	1.200 *	0.000	2.00	2.723	3.27	144.9	0.0	76.9
148.0		1.00	1.10	25.294	27.82	134.73	1.200 *	0.000	2.00	2.669	3.20	142.6	0.0	75.4
150.0	Appertunance(s)	1.00	1.11	25.391	27.93	132.22	1.200 *	0.000	2.00	2.615	3.14	140.2	0.0	73.8
* = Cf Adjusted By Linear Load Ra Effect							Totals:		150.00			14,242.3	0.0	24,129.3

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:33 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 7
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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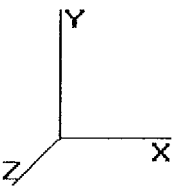


Load Case: 1.2D + 1.6W — 97.00 mph with No Ice — 31 Iterations

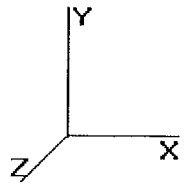
Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

Discrete Appurtenance Segment Forces (Factored)

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Ka	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
56.00	Channel Master Type	1	19.161	21.077	1.00	1.00	20.19	0.000	0.000	680.88	0.00	0.00	151.20
112.0	24" x 24" Junction	1	23.358	25.693	0.80	0.80	3.84	0.000	0.000	157.86	0.00	0.00	24.00
112.0	Argus LLPX310R	3	23.358	25.693	0.58	0.80	7.52	0.000	0.000	308.98	0.00	0.00	19.30
112.0	Collar	1	23.358	25.693	1.00	1.00	8.50	0.000	0.000	349.43	0.00	0.00	48.00
112.0	DragonWave A-ANT-	2	23.358	25.693	0.72	0.80	6.75	0.000	0.000	277.64	0.00	0.00	64.80
112.0	DragonWave Horizon	2	23.358	25.693	0.40	0.80	0.34	0.000	0.000	14.14	0.00	0.00	25.44
112.0	NextNet BTS-2500	3	23.358	25.693	0.54	0.80	2.93	0.000	0.000	120.31	0.00	0.00	126.00
122.0	Flush Mounts	1	23.935	26.329	1.00	1.00	3.50	0.000	0.000	147.44	0.00	0.00	240.00
122.0	RFS APXV18-206517S-	3	23.935	26.329	0.64	0.80	9.93	0.000	0.000	418.16	0.00	0.00	95.04
130.0	Antel BXA-171085-12C	3	24.374	26.811	0.58	0.80	8.28	0.000	0.000	355.07	0.00	0.00	54.00
130.0	Antel BXA-70063-4CF-	3	24.374	26.811	0.62	0.80	8.70	0.000	0.000	373.38	0.00	0.00	35.64
130.0	Antel LPA-80080/6CF	6	24.374	26.811	1.20	0.80	31.10	0.000	0.000	1,334.29	0.00	0.00	151.20
130.0	RFS FD9R6004/2C-3L	6	24.374	26.811	0.40	0.80	0.89	0.000	0.000	38.09	0.00	0.00	18.72
130.0	Round Low Profile Pl	1	24.374	26.811	1.00	1.00	21.70	0.000	0.000	930.87	0.00	0.00	1,800.00
140.0	Andrew Dual Duplex T	6	24.895	27.385	0.40	0.80	1.61	0.000	0.000	70.46	0.00	0.00	79.20
140.0	EMS RR90-17-02DP	3	24.895	27.385	0.51	0.80	6.70	0.000	0.000	293.43	0.00	0.00	64.80
140.0	Flat Low Profile Pla	1	24.895	27.385	1.00	1.00	26.10	0.000	0.000	1,143.59	0.00	0.00	1,800.00
140.0	RFS APX16DWV-	3	24.895	27.385	0.53	0.80	9.63	0.000	0.000	421.98	0.00	0.00	142.56
144.0	Diamond X50A	2	25.235	27.758	1.00	1.00	2.24	0.000	2.800	99.49	0.00	278.56	5.52
144.0	Flat Side Arm	2	25.096	27.606	1.00	1.00	12.60	0.000	0.000	556.54	0.00	0.00	360.00
150.0	ADC DD1900	6	25.630	28.193	0.38	0.75	2.88	0.000	5.000	129.91	0.00	649.56	87.12
150.0	Allgon 7770.00	6	25.630	28.193	0.49	0.75	16.12	0.000	5.000	727.00	0.00	3,635.02	252.00
150.0	Andrew SBNH-	1	25.630	28.193	0.56	0.75	6.44	0.000	5.000	290.53	0.00	1,452.64	79.32
150.0	Decibel DB809KE-SY	1	25.661	28.227	1.00	1.00	3.40	0.000	5.667	153.56	0.00	870.13	31.20
150.0	Ericsson RRUS 11	6	25.487	28.036	0.50	1.00	8.82	0.000	2.000	395.64	0.00	791.28	396.00
150.0	Flat Platform w/ Han	1	25.391	27.930	1.00	1.00	42.40	0.000	0.000	1,894.76	0.00	0.00	2,400.00
150.0	Powerwave P65-17-	2	25.630	28.193	0.64	0.75	14.62	0.000	5.000	659.68	0.00	3,298.39	141.60
150.0	Raycap DC6-48-60-18-	1	25.487	28.036	1.00	1.00	1.47	0.000	2.000	65.94	0.00	131.88	38.16
										12,409.05			8,730.82

Pole : 302489
Location : Enfd - Enfield, 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 — 97.00 mph with No Ice — 31 Iterations

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

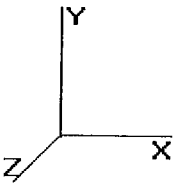
Wind Importance Factor : 1.00

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)
2.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.325	0.000	22.33	15.74
2.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.325	0.000	0.00	0.17
2.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.325	0.000	0.00	2.83
2.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.325	0.000	3.55	0.72
2.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.325	0.000	0.00	11.81
2.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.325	0.000	26.68	15.74
2.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.325	0.000	11.16	23.61
2.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.325	0.000	0.00	160.32
2.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.325	0.000	0.00	11.81
2.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.325	0.000	0.00	1.44
2.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.325	0.000	0.00	17.52
2.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.325	0.000	0.00	0.07
4.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.327	0.000	22.33	15.74
4.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.327	0.000	0.00	0.17
4.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.327	0.000	0.00	2.83
4.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.327	0.000	3.55	0.72
4.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.327	0.000	0.00	11.81
4.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.327	0.000	26.68	15.74
4.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.327	0.000	11.16	23.61
4.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.327	0.000	0.00	160.32
4.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.327	0.000	0.00	11.81
4.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.327	0.000	0.00	1.44
4.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.327	0.000	0.00	17.52
4.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.327	0.000	0.00	0.07
6.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.330	0.000	22.33	15.74
6.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.330	0.000	0.00	0.17
6.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.330	0.000	0.00	2.83
6.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.330	0.000	3.55	0.72
6.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.330	0.000	0.00	11.81
6.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.330	0.000	26.68	15.74
6.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.330	0.000	11.16	23.61
6.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.330	0.000	0.00	160.32
6.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.330	0.000	0.00	11.81
6.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.330	0.000	0.00	1.44
6.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.330	0.000	0.00	17.52
6.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.330	0.000	0.00	0.07
8.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.333	0.000	22.33	15.74
8.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.333	0.000	0.00	0.17
8.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.333	0.000	0.00	2.83
8.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.333	0.000	3.55	0.72
8.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.333	0.000	0.00	11.81
8.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.333	0.000	26.68	15.74
8.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.333	0.000	11.16	23.61
8.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.333	0.000	0.00	160.32
8.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.333	0.000	0.00	11.81
8.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.333	0.000	0.00	1.44
8.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.333	0.000	0.00	17.52
8.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.333	0.000	0.00	0.07
10.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.336	0.000	22.33	15.74
10.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.336	0.000	0.00	0.17
10.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.336	0.000	0.00	2.83

Pole : 302489
Location : Enfd - Enfield, 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 — 97.00 mph with No Ice — 31 Iterations

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

Wind Importance Factor : 1.00

10.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.336	0.000	3.55	0.72
10.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.336	0.000	0.00	11.81
10.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.336	0.000	26.68	15.74
10.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.336	0.000	11.16	23.61
10.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.336	0.000	0.00	160.32
10.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.336	0.000	0.00	11.81
10.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.336	0.000	0.00	1.44
10.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.336	0.000	0.00	17.52
10.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.336	0.000	0.00	0.07
12.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.339	0.000	22.33	15.74
12.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.339	0.000	0.00	0.17
12.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.339	0.000	0.00	2.83
12.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.339	0.000	3.55	0.72
12.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.339	0.000	0.00	11.81
12.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.339	0.000	26.68	15.74
12.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.339	0.000	11.16	23.61
12.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.339	0.000	0.00	160.32
12.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.339	0.000	0.00	11.81
12.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.339	0.000	0.00	1.44
12.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.339	0.000	0.00	17.52
12.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.339	0.000	0.00	0.07
14.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.342	0.000	22.33	15.74
14.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.342	0.000	0.00	0.17
14.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.342	0.000	0.00	2.83
14.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.342	0.000	3.55	0.72
14.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.342	0.000	0.00	11.81
14.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.342	0.000	26.68	15.74
14.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.342	0.000	11.16	23.61
14.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.342	0.000	0.00	160.32
14.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.342	0.000	0.00	11.81
14.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.342	0.000	0.00	1.44
14.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.342	0.000	0.00	17.52
14.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.342	0.000	0.00	0.07
16.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.345	0.000	22.33	15.74
16.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.345	0.000	0.00	0.17
16.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.345	0.000	0.00	2.83
16.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.345	0.000	3.55	0.72
16.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.345	0.000	0.00	11.81
16.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.345	0.000	26.68	15.74
16.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.345	0.000	11.16	23.61
16.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.345	0.000	0.00	160.32
16.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.345	0.000	0.00	11.81
16.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.345	0.000	0.00	1.44
16.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.345	0.000	0.00	17.52
16.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.345	0.000	0.00	0.07
18.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.348	0.000	22.33	15.74
18.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.348	0.000	0.00	0.17
18.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.348	0.000	0.00	2.83
18.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.348	0.000	3.55	0.72
18.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.348	0.000	0.00	11.81
18.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.348	0.000	26.68	15.74
18.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.348	0.000	11.16	23.61
18.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.348	0.000	0.00	160.32
18.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.348	0.000	0.00	11.81
18.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.348	0.000	0.00	1.44
18.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.348	0.000	0.00	17.52
18.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.348	0.000	0.00	0.07

Pole :	302489				Code: ANSI/TIA-222 Rev G						3/27/2012 1:57:33 PM	
Location :	Enfd - Enfield, CT				Struct Class : II						Page: 10	
Height :	150.0 (ft)				Exposure Category : B							
Base Dia :	37.38 (in)				Topographic Category : 1							
Top Dia :	15.00 (in)				Base Elev : 0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156700 (in/ft)											

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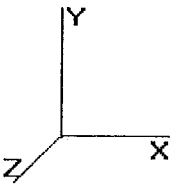


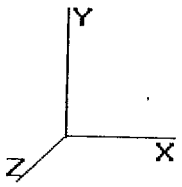
Load Case: 1.2D + 1.6W — 97.00 mph with No Ice — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

20.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.351	0.000	22.33	15.74
20.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.351	0.000	0.00	0.17
20.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.351	0.000	0.00	2.83
20.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.351	0.000	3.55	0.72
20.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.351	0.000	0.00	11.81
20.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.351	0.000	26.68	15.74
20.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.351	0.000	11.16	23.61
20.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.351	0.000	0.00	160.32
20.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.351	0.000	0.00	11.81
20.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.351	0.000	0.00	1.44
20.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.351	0.000	0.00	17.52
20.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.351	0.000	0.00	0.07
22.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.354	0.000	22.33	15.74
22.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.354	0.000	0.00	0.17
22.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.354	0.000	0.00	2.83
22.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.354	0.000	3.55	0.72
22.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.354	0.000	0.00	11.81
22.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.354	0.000	26.68	15.74
22.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.354	0.000	11.16	23.61
22.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.354	0.000	0.00	160.32
22.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.354	0.000	0.00	11.81
22.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.354	0.000	0.00	1.44
22.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.354	0.000	0.00	17.52
22.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.354	0.000	0.00	0.07
24.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.358	0.000	22.33	15.74
24.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.358	0.000	0.00	0.17
24.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.358	0.000	0.00	2.83
24.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.358	0.000	3.55	0.72
24.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.358	0.000	0.00	11.81
24.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.358	0.000	26.68	15.74
24.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.358	0.000	11.16	23.61
24.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.358	0.000	0.00	160.32
24.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.358	0.000	0.00	11.81
24.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.358	0.000	0.00	1.44
24.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.358	0.000	0.00	17.52
24.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.358	0.000	0.00	0.07
26.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.361	0.000	22.33	15.74
26.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.361	0.000	0.00	0.17
26.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.361	0.000	0.00	2.83
26.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.361	0.000	3.55	0.72
26.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.361	0.000	0.00	11.81
26.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.361	0.000	26.68	15.74
26.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.361	0.000	11.16	23.61
26.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.361	0.000	0.00	160.32
26.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.361	0.000	0.00	11.81
26.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.361	0.000	0.00	1.44
26.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.361	0.000	0.00	17.52
26.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.361	0.000	0.00	0.07
28.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.365	0.000	22.33	15.74
28.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.365	0.000	0.00	0.17
28.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.365	0.000	0.00	2.83
28.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.365	0.000	3.55	0.72
28.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.365	0.000	0.00	11.81
28.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.365	0.000	26.68	15.74
28.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.365	0.000	11.16	23.61
28.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.365	0.000	0.00	160.32
28.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.365	0.000	0.00	11.81

Pole : 302489
Location : Enfd - Enfield, 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 — 97.00 mph with No Ice — 31 Iterations

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

Wind Importance Factor : 1.00

28.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.365	0.000	0.00	1.44
28.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.365	0.000	0.00	17.52
28.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.365	0.000	0.00	0.07
30.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.031	0.368	0.000	22.35	15.74
30.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.031	0.368	0.000	0.00	0.17
30.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.031	0.368	0.000	0.00	2.83
30.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.031	0.368	0.000	3.56	0.72
30.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.031	0.368	0.000	0.00	11.81
30.00	(8) 1 5/8" Coax	Yes	2.00	0.955	5.94	0.99	0.95	16.031	0.368	0.000	26.69	15.74
30.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.031	0.368	0.000	11.17	23.61
30.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.031	0.368	0.000	0.00	160.32
30.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.031	0.368	0.000	0.00	11.81
30.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.031	0.368	0.000	0.00	1.44
30.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.031	0.368	0.000	0.00	17.52
30.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.031	0.368	0.000	0.00	0.07
31.50	(8) 1 5/8" Coax	Yes	1.50	1.200	3.96	0.50	0.59	16.257	0.371	0.000	17.00	11.81
31.50	(1) 10 mm Cable	Yes	1.50	0.000	0.00	0.00	0.00	16.257	0.371	0.000	0.00	0.13
31.50	(2) 19.7 mm Cable	Yes	1.50	0.000	0.00	0.00	0.00	16.257	0.371	0.000	0.00	2.12
31.50	(2) 1/2" Coax	Yes	1.50	1.200	0.63	0.08	0.09	16.257	0.371	0.000	2.70	0.54
31.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	16.257	0.371	0.000	0.00	8.86
31.50	(8) 1 5/8" Coax	Yes	1.50	0.949	5.94	0.74	0.70	16.257	0.371	0.000	20.16	11.81
31.50	(12) 1 5/8" Coax	Yes	1.50	1.200	1.98	0.25	0.30	16.257	0.371	0.000	8.50	17.71
31.50	(4) #20 Dywidag bars	Yes	1.50	0.000	0.00	0.00	0.00	16.257	0.371	0.000	0.00	120.27
31.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	16.257	0.371	0.000	0.00	8.86
31.50	(4) 1/2" Coax	Yes	1.50	0.000	0.00	0.00	0.00	16.257	0.371	0.000	0.00	1.08
31.50	(2) 2" Cond.	Yes	1.50	0.000	0.00	0.00	0.00	16.257	0.371	0.000	0.00	13.14
31.50	(1) RG6	Yes	1.50	0.000	0.00	0.00	0.00	16.257	0.371	0.000	0.00	0.05
32.00	(8) 1 5/8" Coax	Yes	0.50	1.200	3.96	0.16	0.20	16.330	0.373	0.000	5.69	3.93
32.00	(1) 10 mm Cable	Yes	0.50	0.000	0.00	0.00	0.00	16.330	0.373	0.000	0.00	0.04
32.00	(2) 19.7 mm Cable	Yes	0.50	0.000	0.00	0.00	0.00	16.330	0.373	0.000	0.00	0.71
32.00	(2) 1/2" Coax	Yes	0.50	1.200	0.63	0.03	0.03	16.330	0.373	0.000	0.90	0.18
32.00	(6) 1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	16.330	0.373	0.000	0.00	2.95
32.00	(8) 1 5/8" Coax	Yes	0.50	0.947	5.94	0.25	0.23	16.330	0.373	0.000	6.73	3.93
32.00	(12) 1 5/8" Coax	Yes	0.50	1.200	1.98	0.08	0.10	16.330	0.373	0.000	2.84	5.90
32.00	(4) #20 Dywidag bars	Yes	0.50	0.000	0.00	0.00	0.00	16.330	0.373	0.000	0.00	40.05
32.00	(6) 1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	16.330	0.373	0.000	0.00	2.95
32.00	(4) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	16.330	0.373	0.000	0.00	0.36
32.00	(2) 2" Cond.	Yes	0.50	0.000	0.00	0.00	0.00	16.330	0.373	0.000	0.00	4.38
32.00	(1) RG6	Yes	0.50	0.000	0.00	0.00	0.00	16.330	0.373	0.000	0.00	0.02
34.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.615	0.375	0.000	23.16	15.74
34.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.615	0.375	0.000	0.00	0.17
34.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.615	0.375	0.000	0.00	2.83
34.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.615	0.375	0.000	3.68	0.72
34.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.615	0.375	0.000	0.00	11.81
34.00	(8) 1 5/8" Coax	Yes	2.00	0.939	5.94	0.99	0.93	16.615	0.375	0.000	27.17	15.74
34.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.615	0.375	0.000	11.58	23.61
34.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.615	0.375	0.000	0.00	160.32
34.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.615	0.375	0.000	0.00	11.81
34.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.615	0.375	0.000	0.00	1.44
34.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.615	0.375	0.000	0.00	17.52
34.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.615	0.375	0.000	0.00	0.07
35.67	(8) 1 5/8" Coax	Yes	1.67	1.200	3.96	0.55	0.66	16.844	0.379	0.000	19.57	13.12
35.67	(1) 10 mm Cable	Yes	1.67	0.000	0.00	0.00	0.00	16.844	0.379	0.000	0.00	0.14
35.67	(2) 19.7 mm Cable	Yes	1.67	0.000	0.00	0.00	0.00	16.844	0.379	0.000	0.00	2.36
35.67	(2) 1/2" Coax	Yes	1.67	1.200	0.63	0.09	0.11	16.844	0.379	0.000	3.11	0.60
35.67	(6) 1 5/8" Coax	Yes	1.67	0.000	0.00	0.00	0.00	16.844	0.379	0.000	0.00	9.84
35.67	(8) 1 5/8" Coax	Yes	1.67	0.932	5.94	0.83	0.77	16.844	0.379	0.000	22.80	13.12

Pole :	302489			Code: ANSI/TIA-222 Rev G							3/27/2012 1:57:34 PM	
Location :	Enfd - Enfield, CT			Struct Class : II							Page: 12	
Height :	150.0 (ft)			Exposure Category : B								
Base Dia :	37.38 (in)			Topographic Category : 1								
Top Dia :	15.00 (in)			Base Elev : 0.000 (ft)								
Shape :	12 Sides											
Taper :	0.156700 (in/ft)											

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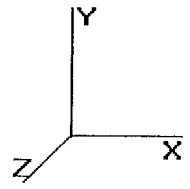

Load Case: 1.2D + 1.6W — 97.00 mph with No Ice — 31 Iterations

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

Wind Importance Factor : 1.00

35.67	(12) 1 5/8" Coax	Yes	1.67	1.200	1.98	0.28	0.33	16.844	0.379	0.000	9.78	19.68
35.67	(4) #20 Dywidag bars	Yes	1.67	0.000	0.00	0.00	0.00	16.844	0.379	0.000	0.00	133.63
35.67	(6) 1 5/8" Coax	Yes	1.67	0.000	0.00	0.00	0.00	16.844	0.379	0.000	0.00	9.84
35.67	(4) 1/2" Coax	Yes	1.67	0.000	0.00	0.00	0.00	16.844	0.379	0.000	0.00	1.20
35.67	(2) 2" Cond.	Yes	1.67	0.000	0.00	0.00	0.00	16.844	0.379	0.000	0.00	14.60
35.67	(1) RG6	Yes	1.67	0.000	0.00	0.00	0.00	16.844	0.379	0.000	0.00	0.06
36.00	(8) 1 5/8" Coax	Yes	0.33	1.200	3.96	0.11	0.13	16.889	0.373	0.000	3.92	2.62
36.00	(1) 10 mm Cable	Yes	0.33	0.000	0.00	0.00	0.00	16.889	0.373	0.000	0.00	0.03
36.00	(2) 19.7 mm Cable	Yes	0.33	0.000	0.00	0.00	0.00	16.889	0.373	0.000	0.00	0.47
36.00	(2) 1/2" Coax	Yes	0.33	1.200	0.63	0.02	0.02	16.889	0.373	0.000	0.62	0.12
36.00	(6) 1 5/8" Coax	Yes	0.33	0.000	0.00	0.00	0.00	16.889	0.373	0.000	0.00	1.97
36.00	(8) 1 5/8" Coax	Yes	0.33	0.931	5.94	0.16	0.15	16.889	0.373	0.000	4.56	2.62
36.00	(12) 1 5/8" Coax	Yes	0.33	1.200	1.98	0.05	0.07	16.889	0.373	0.000	1.96	3.93
36.00	(4) #20 Dywidag bars	Yes	0.33	0.000	0.00	0.00	0.00	16.889	0.373	0.000	0.00	26.69
36.00	(6) 1 5/8" Coax	Yes	0.33	0.000	0.00	0.00	0.00	16.889	0.373	0.000	0.00	1.97
36.00	(4) 1/2" Coax	Yes	0.33	0.000	0.00	0.00	0.00	16.889	0.373	0.000	0.00	0.24
36.00	(2) 2" Cond.	Yes	0.33	0.000	0.00	0.00	0.00	16.889	0.373	0.000	0.00	2.92
36.00	(1) RG6	Yes	0.33	0.000	0.00	0.00	0.00	16.889	0.373	0.000	0.00	0.01
38.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	17.152	0.375	0.000	23.91	15.74
38.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	17.152	0.375	0.000	0.00	0.17
38.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	17.152	0.375	0.000	0.00	2.83
38.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	17.152	0.375	0.000	3.80	0.72
38.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.152	0.375	0.000	0.00	11.81
38.00	(8) 1 5/8" Coax	Yes	2.00	0.924	5.94	0.99	0.91	17.152	0.375	0.000	27.61	15.74
38.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	17.152	0.375	0.000	11.95	23.61
38.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	17.152	0.375	0.000	0.00	160.32
38.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.152	0.375	0.000	0.00	11.81
38.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.152	0.375	0.000	0.00	1.44
38.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	17.152	0.375	0.000	0.00	17.52
38.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	17.152	0.375	0.000	0.00	0.07
40.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	17.405	0.379	0.000	24.26	15.74
40.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	17.405	0.379	0.000	0.00	0.17
40.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	17.405	0.379	0.000	0.00	2.83
40.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	17.405	0.379	0.000	3.86	0.72
40.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.405	0.379	0.000	0.00	11.81
40.00	(8) 1 5/8" Coax	Yes	2.00	0.917	5.94	0.99	0.91	17.405	0.379	0.000	27.81	15.74
40.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	17.405	0.379	0.000	12.13	23.61
40.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	17.405	0.379	0.000	0.00	160.32
40.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.405	0.379	0.000	0.00	11.81
40.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.405	0.379	0.000	0.00	1.44
40.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	17.405	0.379	0.000	0.00	17.52
40.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	17.405	0.379	0.000	0.00	0.07
42.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	17.649	0.383	0.000	24.60	15.74
42.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	17.649	0.383	0.000	0.00	0.17
42.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	17.649	0.383	0.000	0.00	2.83
42.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	17.649	0.383	0.000	3.91	0.72
42.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.649	0.383	0.000	0.00	11.81
42.00	(8) 1 5/8" Coax	Yes	2.00	0.911	5.94	0.99	0.90	17.649	0.383	0.000	28.00	15.74
42.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	17.649	0.383	0.000	12.30	23.61
42.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	17.649	0.383	0.000	0.00	160.32
42.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.649	0.383	0.000	0.00	11.81
42.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.649	0.383	0.000	0.00	1.44
42.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	17.649	0.383	0.000	0.00	17.52
42.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	17.649	0.383	0.000	0.00	0.07
44.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	17.885	0.386	0.000	24.93	15.74
44.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	17.885	0.386	0.000	0.00	0.17
44.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	17.885	0.386	0.000	0.00	2.83

Pole :	302489	Code: ANSI/TIA-222 Rev G			3/27/2012 1:57:34 PM
Location :	Enfd - Enfield, CT	Struct Class : II			Page: 13
Height :	150.0 (ft)	Exposure Category : B			
Base Dia :	37.38 (in)	Topographic Category : 1			
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)			
Shape :	12 Sides				
Taper :	0.156700 (in/ft)				

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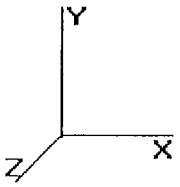


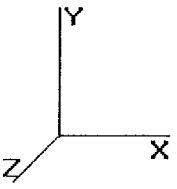
Load Case: 1.2D + 1.6W — 97.00 mph with No Ice — 31 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

44.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	17.885	0.386	0.000	3.97	0.72
44.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.885	0.386	0.000	0.00	11.81
44.00	(8) 1 5/8" Coax	Yes	2.00	0.905	5.94	0.99	0.90	17.885	0.386	0.000	28.19	15.74
44.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	17.885	0.386	0.000	12.47	23.61
44.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	17.885	0.386	0.000	0.00	160.32
44.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.885	0.386	0.000	0.00	11.81
44.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.885	0.386	0.000	0.00	1.44
44.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	17.885	0.386	0.000	0.00	17.52
44.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	17.885	0.386	0.000	0.00	0.07
46.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	18.114	0.390	0.000	25.25	15.74
46.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	18.114	0.390	0.000	0.00	0.17
46.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	18.114	0.390	0.000	0.00	2.83
46.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	18.114	0.390	0.000	4.02	0.72
46.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.114	0.390	0.000	0.00	11.81
46.00	(8) 1 5/8" Coax	Yes	2.00	0.899	5.94	0.99	0.89	18.114	0.390	0.000	28.37	15.74
46.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	18.114	0.390	0.000	12.62	23.61
46.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	18.114	0.390	0.000	0.00	160.32
46.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.114	0.390	0.000	0.00	11.81
46.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.114	0.390	0.000	0.00	1.44
46.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	18.114	0.390	0.000	0.00	17.52
46.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	18.114	0.390	0.000	0.00	0.07
48.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	18.335	0.394	0.000	25.56	15.74
48.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	18.335	0.394	0.000	0.00	0.17
48.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	18.335	0.394	0.000	0.00	2.83
48.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	18.335	0.394	0.000	4.07	0.72
48.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.335	0.394	0.000	0.00	11.81
48.00	(8) 1 5/8" Coax	Yes	2.00	0.893	5.94	0.99	0.88	18.335	0.394	0.000	28.54	15.74
48.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	18.335	0.394	0.000	12.78	23.61
48.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	18.335	0.394	0.000	0.00	160.32
48.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.335	0.394	0.000	0.00	11.81
48.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.335	0.394	0.000	0.00	1.44
48.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	18.335	0.394	0.000	0.00	17.52
48.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	18.335	0.394	0.000	0.00	0.07
50.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	18.551	0.398	0.000	25.86	15.74
50.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	18.551	0.398	0.000	0.00	0.17
50.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	18.551	0.398	0.000	0.00	2.83
50.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	18.551	0.398	0.000	4.11	0.72
50.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.551	0.398	0.000	0.00	11.81
50.00	(8) 1 5/8" Coax	Yes	2.00	0.888	5.94	0.99	0.88	18.551	0.398	0.000	28.71	15.74
50.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	18.551	0.398	0.000	12.93	23.61
50.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	18.551	0.398	0.000	0.00	160.32
50.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.551	0.398	0.000	0.00	11.81
50.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.551	0.398	0.000	0.00	1.44
50.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	18.551	0.398	0.000	0.00	17.52
50.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	18.551	0.398	0.000	0.00	0.07
52.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	18.760	0.403	0.000	26.15	15.74
52.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	18.760	0.403	0.000	0.00	0.17
52.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	18.760	0.403	0.000	0.00	2.83
52.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	18.760	0.403	0.000	4.16	0.72
52.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.760	0.403	0.000	0.00	11.81
52.00	(8) 1 5/8" Coax	Yes	2.00	0.883	5.94	0.99	0.87	18.760	0.403	0.000	28.87	15.74
52.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	18.760	0.403	0.000	13.07	23.61
52.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	18.760	0.403	0.000	0.00	160.32
52.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.760	0.403	0.000	0.00	11.81
52.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.760	0.403	0.000	0.00	1.44
52.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	18.760	0.403	0.000	0.00	17.52
52.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	18.760	0.403	0.000	0.00	0.07



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Load Case: 1.2D + 1.6W — 97.00 mph with No Ice — 31 Iterations

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

Wind Importance Factor : 1.00

54.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	18.963	0.407	0.000	26.43	15.74
54.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	18.963	0.407	0.000	0.00	0.17
54.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	18.963	0.407	0.000	0.00	2.83
54.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	18.963	0.407	0.000	4.21	0.72
54.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.963	0.407	0.000	0.00	11.81
54.00	(8) 1 5/8" Coax	Yes	2.00	0.879	5.94	0.99	0.87	18.963	0.407	0.000	29.03	15.74
54.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	18.963	0.407	0.000	13.22	23.61
54.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	18.963	0.407	0.000	0.00	160.32
54.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.963	0.407	0.000	0.00	11.81
54.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.963	0.407	0.000	0.00	1.44
54.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	18.963	0.407	0.000	0.00	17.52
54.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	18.963	0.407	0.000	0.00	0.07
56.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	19.161	0.411	0.000	26.71	15.74
56.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	19.161	0.411	0.000	0.00	0.17
56.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	19.161	0.411	0.000	0.00	2.83
56.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	19.161	0.411	0.000	4.25	0.72
56.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.161	0.411	0.000	0.00	11.81
56.00	(8) 1 5/8" Coax	Yes	2.00	0.874	5.94	0.99	0.87	19.161	0.411	0.000	29.18	15.74
56.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	19.161	0.411	0.000	13.35	23.61
56.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	19.161	0.411	0.000	0.00	160.32
56.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.161	0.411	0.000	0.00	11.81
56.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.161	0.411	0.000	0.00	1.44
56.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	19.161	0.411	0.000	0.00	17.52
56.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	19.161	0.411	0.000	0.00	0.07
58.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	19.354	0.416	0.000	26.98	15.74
58.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	19.354	0.416	0.000	0.00	0.17
58.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	19.354	0.416	0.000	0.00	2.83
58.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	19.354	0.416	0.000	4.29	0.72
58.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.354	0.416	0.000	0.00	11.81
58.00	(8) 1 5/8" Coax	Yes	2.00	0.870	5.94	0.99	0.86	19.354	0.416	0.000	29.33	15.74
58.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	19.354	0.416	0.000	13.49	23.61
58.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	19.354	0.416	0.000	0.00	160.32
58.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.354	0.416	0.000	0.00	11.81
58.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.354	0.416	0.000	0.00	1.44
58.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	19.354	0.416	0.000	0.00	17.52
60.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	19.543	0.420	0.000	27.24	15.74
60.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	19.543	0.420	0.000	0.00	0.17
60.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	19.543	0.420	0.000	0.00	2.83
60.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	19.543	0.420	0.000	4.33	0.72
60.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.543	0.420	0.000	0.00	11.81
60.00	(8) 1 5/8" Coax	Yes	2.00	0.865	5.94	0.99	0.86	19.543	0.420	0.000	29.47	15.74
60.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	19.543	0.420	0.000	13.62	23.61
60.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	19.543	0.420	0.000	0.00	160.32
60.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.543	0.420	0.000	0.00	11.81
60.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.543	0.420	0.000	0.00	1.44
60.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	19.543	0.420	0.000	0.00	17.52
62.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	19.726	0.425	0.000	27.50	15.74
62.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	19.726	0.425	0.000	0.00	0.17
62.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	19.726	0.425	0.000	0.00	2.83
62.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	19.726	0.425	0.000	4.37	0.72
62.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.726	0.425	0.000	0.00	11.81
62.00	(8) 1 5/8" Coax	Yes	2.00	0.861	5.94	0.99	0.85	19.726	0.425	0.000	29.61	15.74
62.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	19.726	0.425	0.000	13.75	23.61
62.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	19.726	0.425	0.000	0.00	160.32
62.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.726	0.425	0.000	0.00	11.81
62.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.726	0.425	0.000	0.00	1.44
62.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	19.726	0.425	0.000	0.00	17.52

Pole :	302489				Code: ANSI/TIA-222 Rev G						3/27/2012 1:57:34 PM	
Location :	Enfd - Enfield, CT				Struct Class : II						Page: 15	
Height :	150.0 (ft)				Exposure Category : B							
Base Dia :	37.38 (in)				Topographic Category : 1							
Top Dia :	15.00 (in)				Base Elev : 0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156700 (in/ft)											

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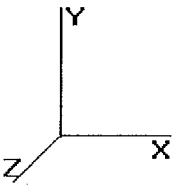


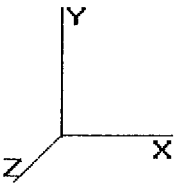
Load Case: 1.2D + 1.6W — 97.00 mph with No Ice — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

64.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	19.906	0.430	0.000	27.75	15.74
64.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	19.906	0.430	0.000	0.00	0.17
64.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	19.906	0.430	0.000	0.00	2.83
64.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	19.906	0.430	0.000	4.41	0.72
64.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.906	0.430	0.000	0.00	11.81
64.00	(8) 1 5/8" Coax	Yes	2.00	0.857	5.94	0.99	0.85	19.906	0.430	0.000	29.74	15.74
64.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	19.906	0.430	0.000	13.87	23.61
64.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	19.906	0.430	0.000	0.00	160.32
64.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.906	0.430	0.000	0.00	11.81
64.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.906	0.430	0.000	0.00	1.44
64.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	19.906	0.430	0.000	0.00	17.52
66.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	20.082	0.434	0.000	27.99	15.74
66.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	20.082	0.434	0.000	0.00	0.17
66.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	20.082	0.434	0.000	0.00	2.83
66.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	20.082	0.434	0.000	4.45	0.72
66.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.082	0.434	0.000	0.00	11.81
66.00	(8) 1 5/8" Coax	Yes	2.00	0.854	5.94	0.99	0.85	20.082	0.434	0.000	29.87	15.74
66.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	20.082	0.434	0.000	14.00	23.61
66.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	20.082	0.434	0.000	0.00	160.32
66.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.082	0.434	0.000	0.00	11.81
66.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.082	0.434	0.000	0.00	1.44
66.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	20.082	0.434	0.000	0.00	17.52
68.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	20.254	0.439	0.000	28.23	15.74
68.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	20.254	0.439	0.000	0.00	0.17
68.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	20.254	0.439	0.000	0.00	2.83
68.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	20.254	0.439	0.000	4.49	0.72
68.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.254	0.439	0.000	0.00	11.81
68.00	(8) 1 5/8" Coax	Yes	2.00	0.850	5.94	0.99	0.84	20.254	0.439	0.000	30.00	15.74
68.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	20.254	0.439	0.000	14.12	23.61
68.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	20.254	0.439	0.000	0.00	160.32
68.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.254	0.439	0.000	0.00	11.81
68.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.254	0.439	0.000	0.00	1.44
68.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	20.254	0.439	0.000	0.00	17.52
70.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	20.422	0.444	0.000	28.47	15.74
70.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	20.422	0.444	0.000	0.00	0.17
70.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	20.422	0.444	0.000	0.00	2.83
70.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	20.422	0.444	0.000	4.53	0.72
70.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.422	0.444	0.000	0.00	11.81
70.00	(8) 1 5/8" Coax	Yes	2.00	0.847	5.94	0.99	0.84	20.422	0.444	0.000	30.12	15.74
70.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	20.422	0.444	0.000	14.23	23.61
70.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	20.422	0.444	0.000	0.00	160.32
70.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.422	0.444	0.000	0.00	11.81
70.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.422	0.444	0.000	0.00	1.44
70.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	20.422	0.444	0.000	0.00	17.52
70.00	(8) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	20.422	0.447	0.000	0.00	0.00
70.00	(1) 10 mm Cable	Yes	0.00	0.000	0.00	0.00	0.00	20.422	0.447	0.000	0.00	0.00
70.00	(2) 19.7 mm Cable	Yes	0.00	0.000	0.00	0.00	0.00	20.422	0.447	0.000	0.00	0.00
70.00	(2) 1/2" Coax	Yes	0.00	1.200	0.63	0.00	0.00	20.422	0.447	0.000	0.00	0.00
70.00	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	20.422	0.447	0.000	0.00	0.00
70.00	(8) 1 5/8" Coax	Yes	0.00	0.847	5.94	0.00	0.00	20.422	0.447	0.000	0.01	0.00
70.00	(12) 1 5/8" Coax	Yes	0.00	1.200	1.98	0.00	0.00	20.422	0.447	0.000	0.00	0.00
70.00	(4) #20 Dywidag bars	Yes	0.00	0.000	0.00	0.00	0.00	20.422	0.447	0.000	0.00	0.03
70.00	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	20.422	0.447	0.000	0.00	0.00
70.00	(4) 1/2" Coax	Yes	0.00	0.000	0.00	0.00	0.00	20.422	0.447	0.000	0.00	0.00
70.00	(2) 2" Cond.	Yes	0.00	0.000	0.00	0.00	0.00	20.422	0.447	0.000	0.00	0.00
72.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	20.587	0.450	0.000	28.69	15.74
72.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	20.587	0.450	0.000	0.00	0.17

Pole : 302489
Location : Enfd - Enfield, 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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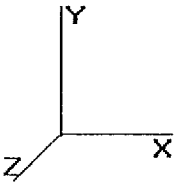
Load Case: 1.2D + 1.6W — 97.00 mph with No Ice — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

72.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	20.587	0.450	0.000	0.00	2.83
72.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	20.587	0.450	0.000	4.56	0.72
72.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.587	0.450	0.000	0.00	11.80
72.00	(8) 1 5/8" Coax	Yes	2.00	0.843	5.94	0.99	0.83	20.587	0.450	0.000	30.24	15.74
72.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	20.587	0.450	0.000	14.35	23.61
72.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	20.587	0.450	0.000	0.00	160.29
72.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.587	0.450	0.000	0.00	11.80
72.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.587	0.450	0.000	0.00	1.44
72.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	20.587	0.450	0.000	0.00	17.52
73.50	(8) 1 5/8" Coax	Yes	1.50	1.200	3.96	0.50	0.59	20.709	0.454	0.000	21.66	11.81
73.50	(1) 10 mm Cable	Yes	1.50	0.000	0.00	0.00	0.00	20.709	0.454	0.000	0.00	0.13
73.50	(2) 19.7 mm Cable	Yes	1.50	0.000	0.00	0.00	0.00	20.709	0.454	0.000	0.00	2.12
73.50	(2) 1/2" Coax	Yes	1.50	1.200	0.63	0.08	0.09	20.709	0.454	0.000	3.45	0.54
73.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	20.709	0.454	0.000	0.00	8.86
73.50	(8) 1 5/8" Coax	Yes	1.50	0.841	5.94	0.74	0.62	20.709	0.454	0.000	22.76	11.81
73.50	(12) 1 5/8" Coax	Yes	1.50	1.200	1.98	0.25	0.30	20.709	0.454	0.000	10.83	17.71
73.50	(4) #20 Dywidag bars	Yes	1.50	0.000	0.00	0.00	0.00	20.709	0.454	0.000	0.00	120.27
73.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	20.709	0.454	0.000	0.00	8.86
73.50	(4) 1/2" Coax	Yes	1.50	0.000	0.00	0.00	0.00	20.709	0.454	0.000	0.00	1.08
73.50	(2) 2" Cond.	Yes	1.50	0.000	0.00	0.00	0.00	20.709	0.454	0.000	0.00	13.14
74.00	(8) 1 5/8" Coax	Yes	0.50	1.200	3.96	0.16	0.20	20.749	0.448	0.000	7.23	3.93
74.00	(1) 10 mm Cable	Yes	0.50	0.000	0.00	0.00	0.00	20.749	0.448	0.000	0.00	0.04
74.00	(2) 19.7 mm Cable	Yes	0.50	0.000	0.00	0.00	0.00	20.749	0.448	0.000	0.00	0.71
74.00	(2) 1/2" Coax	Yes	0.50	1.200	0.63	0.03	0.03	20.749	0.448	0.000	1.15	0.18
74.00	(6) 1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	20.749	0.448	0.000	0.00	2.95
74.00	(8) 1 5/8" Coax	Yes	0.50	0.840	5.94	0.25	0.21	20.749	0.448	0.000	7.59	3.93
74.00	(12) 1 5/8" Coax	Yes	0.50	1.200	1.98	0.08	0.10	20.749	0.448	0.000	3.61	5.90
74.00	(4) #20 Dywidag bars	Yes	0.50	0.000	0.00	0.00	0.00	20.749	0.448	0.000	0.00	40.05
74.00	(6) 1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	20.749	0.448	0.000	0.00	2.95
74.00	(4) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	20.749	0.448	0.000	0.00	0.36
74.00	(2) 2" Cond.	Yes	0.50	0.000	0.00	0.00	0.00	20.749	0.448	0.000	0.00	4.38
76.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	20.908	0.452	0.000	29.14	15.74
76.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	20.908	0.452	0.000	0.00	0.17
76.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	20.908	0.452	0.000	0.00	2.83
76.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	20.908	0.452	0.000	4.64	0.72
76.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.908	0.452	0.000	0.00	11.81
76.00	(8) 1 5/8" Coax	Yes	2.00	0.837	5.94	0.99	0.83	20.908	0.452	0.000	30.48	15.74
76.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	20.908	0.452	0.000	14.57	23.61
76.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	20.908	0.452	0.000	0.00	160.32
76.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.908	0.452	0.000	0.00	11.81
76.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.908	0.452	0.000	0.00	1.44
76.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	20.908	0.452	0.000	0.00	17.52
78.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	21.064	0.457	0.000	29.36	15.74
78.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.064	0.457	0.000	0.00	0.17
78.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.064	0.457	0.000	0.00	2.83
78.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	21.064	0.457	0.000	4.67	0.72
78.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.064	0.457	0.000	0.00	11.81
78.00	(8) 1 5/8" Coax	Yes	2.00	0.834	5.94	0.99	0.83	21.064	0.457	0.000	30.59	15.74
78.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	21.064	0.457	0.000	14.68	23.61
78.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	21.064	0.457	0.000	0.00	160.32
78.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.064	0.457	0.000	0.00	11.81
78.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.064	0.457	0.000	0.00	1.44
78.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	21.064	0.457	0.000	0.00	17.52
80.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	21.217	0.463	0.000	29.57	15.74
80.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.217	0.463	0.000	0.00	0.17
80.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.217	0.463	0.000	0.00	2.83
80.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	21.217	0.463	0.000	4.71	0.72

Pole : 302489
Location : Enfd - Enfield, 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 — 97.00 mph with No Ice — 31 Iterations

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

Wind Importance Factor : 1.00

80.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.217	0.463	0.000	0.00	11.81
80.00	(8) 1 5/8" Coax	Yes	2.00	0.831	5.94	0.99	0.82	21.217	0.463	0.000	30.70	15.74
80.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	21.217	0.463	0.000	14.79	23.61
80.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	21.217	0.463	0.000	0.00	160.32
80.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.217	0.463	0.000	0.00	11.81
80.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.217	0.463	0.000	0.00	1.44
80.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	21.217	0.463	0.000	0.00	17.52
82.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	21.367	0.468	0.000	29.78	15.74
82.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.367	0.468	0.000	0.00	0.17
82.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.367	0.468	0.000	0.00	2.83
82.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	21.367	0.468	0.000	4.74	0.72
82.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.367	0.468	0.000	0.00	11.81
82.00	(8) 1 5/8" Coax	Yes	2.00	0.828	5.94	0.99	0.82	21.367	0.468	0.000	30.81	15.74
82.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	21.367	0.468	0.000	14.89	23.61
82.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	21.367	0.468	0.000	0.00	160.32
82.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.367	0.468	0.000	0.00	11.81
82.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.367	0.468	0.000	0.00	1.44
82.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	21.367	0.468	0.000	0.00	17.52
84.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	21.514	0.474	0.000	29.99	15.74
84.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.514	0.474	0.000	0.00	0.17
84.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.514	0.474	0.000	0.00	2.83
84.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	21.514	0.474	0.000	4.77	0.72
84.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.514	0.474	0.000	0.00	11.81
84.00	(8) 1 5/8" Coax	Yes	2.00	0.825	5.94	0.99	0.82	21.514	0.474	0.000	30.92	15.74
84.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	21.514	0.474	0.000	14.99	23.61
84.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	21.514	0.474	0.000	0.00	160.32
84.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.514	0.474	0.000	0.00	11.81
84.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.514	0.474	0.000	0.00	1.44
84.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	21.514	0.474	0.000	0.00	17.52
86.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	21.660	0.480	0.000	30.19	15.74
86.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.660	0.480	0.000	0.00	0.17
86.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.660	0.480	0.000	0.00	2.83
86.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	21.660	0.480	0.000	4.80	0.72
86.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.660	0.480	0.000	0.00	11.81
86.00	(8) 1 5/8" Coax	Yes	2.00	0.822	5.94	0.99	0.81	21.660	0.480	0.000	31.02	15.74
86.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	21.660	0.480	0.000	15.10	23.61
86.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	21.660	0.480	0.000	0.00	160.32
86.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.660	0.480	0.000	0.00	11.81
86.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.660	0.480	0.000	0.00	1.44
86.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	21.660	0.480	0.000	0.00	17.52
88.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	21.802	0.486	0.000	30.39	15.74
88.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.802	0.486	0.000	0.00	0.17
88.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.802	0.486	0.000	0.00	2.83
88.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	21.802	0.486	0.000	4.83	0.72
88.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.802	0.486	0.000	0.00	11.81
88.00	(8) 1 5/8" Coax	Yes	2.00	0.819	5.94	0.99	0.81	21.802	0.486	0.000	31.12	15.74
88.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	21.802	0.486	0.000	15.20	23.61
88.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	21.802	0.486	0.000	0.00	160.32
88.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.802	0.486	0.000	0.00	11.81
88.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.802	0.486	0.000	0.00	1.44
88.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	21.802	0.486	0.000	0.00	17.52
90.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	21.943	0.492	0.000	30.59	15.74
90.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.943	0.492	0.000	0.00	0.17
90.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.943	0.492	0.000	0.00	2.83
90.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	21.943	0.492	0.000	4.87	0.72
90.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.943	0.492	0.000	0.00	11.81
90.00	(8) 1 5/8" Coax	Yes	2.00	0.817	5.94	0.99	0.81	21.943	0.492	0.000	31.22	15.74

Pole :	302489	Code: ANSI/TIA-222 Rev G			3/27/2012 1:57:35 PM
Location :	Enfd - Enfield, CT	Struct Class : II			Page: 18
Height :	150.0 (ft)	Exposure Category : B			
Base Dia :	37.38 (in)	Topographic Category : 1			
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)			
Shape :	12 Sides				
Taper :	0.156700 (in/ft)				

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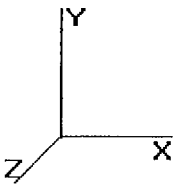

Load Case: 1.2D + 1.6W — 97.00 mph with No Ice — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

90.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	21.943	0.492	0.000	15.29	23.61
90.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	21.943	0.492	0.000	0.00	160.32
90.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.943	0.492	0.000	0.00	11.81
90.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.943	0.492	0.000	0.00	1.44
90.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	21.943	0.492	0.000	0.00	17.52
92.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	22.081	0.498	0.000	30.78	15.74
92.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.081	0.498	0.000	0.00	0.17
92.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.081	0.498	0.000	0.00	2.83
92.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	22.081	0.498	0.000	4.90	0.72
92.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.081	0.498	0.000	0.00	11.81
92.00	(8) 1 5/8" Coax	Yes	2.00	0.814	5.94	0.99	0.81	22.081	0.498	0.000	31.32	15.74
92.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	22.081	0.498	0.000	15.39	23.61
92.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	22.081	0.498	0.000	0.00	160.32
92.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.081	0.498	0.000	0.00	11.81
92.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.081	0.498	0.000	0.00	1.44
92.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	22.081	0.498	0.000	0.00	17.52
94.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	22.217	0.505	0.000	30.97	15.74
94.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.217	0.505	0.000	0.00	0.17
94.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.217	0.505	0.000	0.00	2.83
94.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	22.217	0.505	0.000	4.93	0.72
94.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.217	0.505	0.000	0.00	11.81
94.00	(8) 1 5/8" Coax	Yes	2.00	0.812	5.94	0.99	0.80	22.217	0.505	0.000	31.42	15.74
94.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	22.217	0.505	0.000	15.48	23.61
94.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	22.217	0.505	0.000	0.00	160.32
94.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.217	0.505	0.000	0.00	11.81
94.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.217	0.505	0.000	0.00	1.44
94.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	22.217	0.505	0.000	0.00	17.52
96.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	22.351	0.512	0.000	31.16	15.74
96.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.351	0.512	0.000	0.00	0.17
96.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.351	0.512	0.000	0.00	2.83
96.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	22.351	0.512	0.000	4.96	0.72
96.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.351	0.512	0.000	0.00	11.81
96.00	(8) 1 5/8" Coax	Yes	2.00	0.809	5.94	0.99	0.80	22.351	0.512	0.000	31.51	15.74
96.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	22.351	0.512	0.000	15.58	23.61
96.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	22.351	0.512	0.000	0.00	160.32
96.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.351	0.512	0.000	0.00	11.81
96.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.351	0.512	0.000	0.00	1.44
96.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	22.351	0.512	0.000	0.00	17.52
98.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	22.483	0.519	0.000	31.34	15.74
98.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.483	0.519	0.000	0.00	0.17
98.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.483	0.519	0.000	0.00	2.83
98.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	22.483	0.519	0.000	4.99	0.72
98.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.483	0.519	0.000	0.00	11.81
98.00	(8) 1 5/8" Coax	Yes	2.00	0.807	5.94	0.99	0.80	22.483	0.519	0.000	31.61	15.74
98.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	22.483	0.519	0.000	15.67	23.61
98.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	22.483	0.519	0.000	0.00	160.32
98.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.483	0.519	0.000	0.00	11.81
98.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.483	0.519	0.000	0.00	1.44
98.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	22.483	0.519	0.000	0.00	17.52
100.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	22.613	0.526	0.000	31.52	15.74
100.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.613	0.526	0.000	0.00	0.17
100.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.613	0.526	0.000	0.00	2.83
100.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	22.613	0.526	0.000	5.01	0.72
100.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.613	0.526	0.000	0.00	11.81
100.0	(8) 1 5/8" Coax	Yes	2.00	0.804	5.94	0.99	0.80	22.613	0.526	0.000	31.70	15.74
100.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	22.613	0.526	0.000	15.76	23.61
100.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	22.613	0.526	0.000	0.00	160.32

Pole :	302489	Code: ANSI/TIA-222 Rev G		3/27/2012 1:57:35 PM
Location :	Enfd - Enfield, CT	Struct Class : II		Page: 19
Height :	150.0 (ft)	Exposure Category : B		
Base Dia :	37.38 (in)	Topographic Category : 1		
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)		
Shape :	12 Sides			
Taper :	0.156700 (in/ft)			

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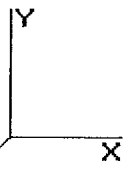

Load Case: 1.2D + 1.6W — 97.00 mph with No Ice — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

100.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.613	0.526	0.000	0.00	11.81
100.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.613	0.526	0.000	0.00	1.44
100.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	22.613	0.526	0.000	0.00	17.52
102.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	22.742	0.533	0.000	31.70	15.74
102.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.742	0.533	0.000	0.00	0.17
102.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.742	0.533	0.000	0.00	2.83
102.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	22.742	0.533	0.000	5.04	0.72
102.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.742	0.533	0.000	0.00	11.81
102.0	(8) 1 5/8" Coax	Yes	2.00	0.802	5.94	0.99	0.79	22.742	0.533	0.000	31.79	15.74
102.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	22.742	0.533	0.000	15.85	23.61
102.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	22.742	0.533	0.000	0.00	160.32
102.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.742	0.533	0.000	0.00	11.81
102.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.742	0.533	0.000	0.00	1.44
102.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	22.742	0.533	0.000	0.00	17.52
104.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	22.868	0.540	0.000	31.88	15.74
104.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.868	0.540	0.000	0.00	0.17
104.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.868	0.540	0.000	0.00	2.83
104.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	22.868	0.540	0.000	5.07	0.72
104.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.868	0.540	0.000	0.00	11.81
104.0	(8) 1 5/8" Coax	Yes	2.00	0.800	5.94	0.99	0.79	22.868	0.540	0.000	31.88	15.74
104.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	22.868	0.540	0.000	15.94	23.61
104.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	22.868	0.540	0.000	0.00	160.32
104.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.868	0.540	0.000	0.00	11.81
104.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.868	0.540	0.000	0.00	1.44
104.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	22.868	0.540	0.000	0.00	17.52
106.0	(8) 1 5/8" Coax	Yes	2.00	1.197	3.96	0.66	0.79	22.993	0.548	0.000	31.96	15.74
106.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.993	0.548	0.000	0.00	0.17
106.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.993	0.548	0.000	0.00	2.83
106.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	22.993	0.548	0.000	5.10	0.72
106.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.993	0.548	0.000	0.00	11.81
106.0	(8) 1 5/8" Coax	Yes	2.00	0.798	5.94	0.99	0.79	22.993	0.548	0.000	31.96	15.74
106.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	22.993	0.548	0.000	16.03	23.61
106.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	22.993	0.548	0.000	0.00	160.32
106.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.993	0.548	0.000	0.00	11.81
106.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.993	0.548	0.000	0.00	1.44
106.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	22.993	0.548	0.000	0.00	17.52
108.0	(8) 1 5/8" Coax	Yes	2.00	1.194	3.96	0.66	0.79	23.116	0.556	0.000	32.05	15.74
108.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.116	0.556	0.000	0.00	0.17
108.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.116	0.556	0.000	0.00	2.83
108.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	23.116	0.556	0.000	5.13	0.72
108.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.116	0.556	0.000	0.00	11.81
108.0	(8) 1 5/8" Coax	Yes	2.00	0.796	5.94	0.99	0.79	23.116	0.556	0.000	32.05	15.74
108.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	23.116	0.556	0.000	16.11	23.61
108.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	23.116	0.556	0.000	0.00	160.32
108.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.116	0.556	0.000	0.00	11.81
108.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.116	0.556	0.000	0.00	1.44
108.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	23.116	0.556	0.000	0.00	17.52
110.0	(8) 1 5/8" Coax	Yes	2.00	1.190	3.96	0.66	0.79	23.238	0.564	0.000	32.13	15.74
110.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.238	0.564	0.000	0.00	0.17
110.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.238	0.564	0.000	0.00	2.83
110.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	23.238	0.564	0.000	5.15	0.72
110.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.238	0.564	0.000	0.00	11.81
110.0	(8) 1 5/8" Coax	Yes	2.00	0.794	5.94	0.99	0.79	23.238	0.564	0.000	32.13	15.74
110.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	23.238	0.564	0.000	16.20	23.61
110.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	23.238	0.564	0.000	0.00	160.32
110.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.238	0.564	0.000	0.00	11.81
110.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.238	0.564	0.000	0.00	1.44

Pole :	302489	Code: ANSI/TIA-222 Rev G			3/27/2012 1:57:35 PM
Location :	Enfd - Enfield, CT	Struct Class : II			Page: 20
Height :	150.0 (ft)	Exposure Category : B			
Base Dia :	37.38 (in)	Topographic Category : 1			
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)			
Shape :	12 Sides				
Taper :	0.156700 (in/ft)				

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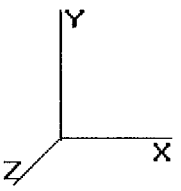

Load Case: 1.2D + 1.6W — 97.00 mph with No Ice — 31 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

110.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	23.238	0.564	0.000	0.00	17.52
110.0	(8) 1 5/8" Coax	Yes	0.00	1.190	3.96	0.00	0.00	23.238	0.568	0.000	0.01	0.00
110.0	(1) 10 mm Cable	Yes	0.00	0.000	0.00	0.00	0.00	23.238	0.568	0.000	0.00	0.00
110.0	(2) 19.7 mm Cable	Yes	0.00	0.000	0.00	0.00	0.00	23.238	0.568	0.000	0.00	0.00
110.0	(2) 1/2" Coax	Yes	0.00	1.200	0.63	0.00	0.00	23.238	0.568	0.000	0.00	0.00
110.0	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	23.238	0.568	0.000	0.00	0.00
110.0	(8) 1 5/8" Coax	Yes	0.00	0.794	5.94	0.00	0.00	23.238	0.568	0.000	0.01	0.00
110.0	(12) 1 5/8" Coax	Yes	0.00	1.200	1.98	0.00	0.00	23.238	0.568	0.000	0.00	0.00
110.0	(4) #20 Dywidag bars	Yes	0.00	0.000	0.00	0.00	0.00	23.238	0.568	0.000	0.00	0.03
110.0	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	23.238	0.568	0.000	0.00	0.00
110.0	(4) 1/2" Coax	Yes	0.00	0.000	0.00	0.00	0.00	23.238	0.568	0.000	0.00	0.00
110.0	(2) 2" Cond.	Yes	0.00	0.000	0.00	0.00	0.00	23.238	0.568	0.000	0.00	0.00
112.0	(8) 1 5/8" Coax	Yes	2.00	1.187	3.96	0.66	0.78	23.358	0.572	0.000	32.21	15.74
112.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.358	0.572	0.000	0.00	0.17
112.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.358	0.572	0.000	0.00	2.83
112.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	23.358	0.572	0.000	5.18	0.72
112.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.358	0.572	0.000	0.00	11.80
112.0	(8) 1 5/8" Coax	Yes	2.00	0.792	5.94	0.99	0.78	23.358	0.572	0.000	32.21	15.74
112.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	23.358	0.572	0.000	16.28	23.61
112.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	23.358	0.572	0.000	0.00	160.29
112.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.358	0.572	0.000	0.00	11.80
112.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.358	0.572	0.000	0.00	1.44
112.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	23.358	0.572	0.000	0.00	17.52
114.0	(8) 1 5/8" Coax	Yes	2.00	1.184	3.96	0.66	0.78	23.476	0.581	0.000	32.30	15.74
114.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.476	0.581	0.000	0.00	0.17
114.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.476	0.581	0.000	0.00	2.83
114.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	23.476	0.581	0.000	5.21	0.72
114.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.476	0.581	0.000	0.00	11.81
114.0	(8) 1 5/8" Coax	Yes	2.00	0.790	5.94	0.99	0.78	23.476	0.581	0.000	32.30	15.74
114.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	23.476	0.581	0.000	16.36	23.61
114.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	23.476	0.581	0.000	0.00	160.32
114.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.476	0.581	0.000	0.00	11.81
116.0	(8) 1 5/8" Coax	Yes	2.00	1.181	3.96	0.66	0.78	23.593	0.590	0.000	32.38	15.74
116.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.593	0.590	0.000	0.00	0.17
116.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.593	0.590	0.000	0.00	2.83
116.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	23.593	0.590	0.000	5.23	0.72
116.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.593	0.590	0.000	0.00	11.81
116.0	(8) 1 5/8" Coax	Yes	2.00	0.788	5.94	0.99	0.78	23.593	0.590	0.000	32.38	15.74
116.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	23.593	0.590	0.000	16.44	23.61
116.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	23.593	0.590	0.000	0.00	160.32
116.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.593	0.590	0.000	0.00	11.81
118.0	(8) 1 5/8" Coax	Yes	2.00	1.179	3.96	0.66	0.78	23.708	0.599	0.000	32.46	15.74
118.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.708	0.599	0.000	0.00	0.17
118.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.708	0.599	0.000	0.00	2.83
118.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	23.708	0.599	0.000	5.26	0.72
118.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.708	0.599	0.000	0.00	11.81
118.0	(8) 1 5/8" Coax	Yes	2.00	0.786	5.94	0.99	0.78	23.708	0.599	0.000	32.46	15.74
118.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	23.708	0.599	0.000	16.52	23.61
118.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	23.708	0.599	0.000	0.00	160.32
118.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.708	0.599	0.000	0.00	11.81
120.0	(8) 1 5/8" Coax	Yes	2.00	1.176	3.96	0.66	0.78	23.823	0.609	0.000	32.53	15.74
120.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.823	0.609	0.000	0.00	0.17
120.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.823	0.609	0.000	0.00	2.83
120.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	23.823	0.609	0.000	5.28	0.72
120.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.823	0.609	0.000	0.00	11.81
120.0	(8) 1 5/8" Coax	Yes	2.00	0.784	5.94	0.99	0.78	23.823	0.609	0.000	32.53	15.74
120.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	23.823	0.609	0.000	16.60	23.61

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:35 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 21
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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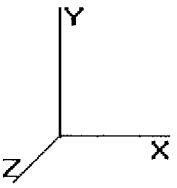

Load Case: 1.2D + 1.6W — 97.00 mph with No Ice — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

120.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	23.823	0.609	0.000	0.00	160.32
120.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.823	0.609	0.000	0.00	11.81
121.0	(8) 1 5/8" Coax	Yes	1.00	1.174	3.96	0.33	0.39	23.879	0.616	0.000	16.29	7.87
121.0	(1) 10 mm Cable	Yes	1.00	0.000	0.00	0.00	0.00	23.879	0.616	0.000	0.00	0.08
121.0	(2) 19.7 mm Cable	Yes	1.00	0.000	0.00	0.00	0.00	23.879	0.616	0.000	0.00	1.42
121.0	(2) 1/2" Coax	Yes	1.00	1.200	0.63	0.05	0.06	23.879	0.616	0.000	2.65	0.36
121.0	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.879	0.616	0.000	0.00	5.90
121.0	(8) 1 5/8" Coax	Yes	1.00	0.783	5.94	0.50	0.39	23.879	0.616	0.000	16.29	7.87
121.0	(12) 1 5/8" Coax	Yes	1.00	1.200	1.98	0.17	0.20	23.879	0.616	0.000	8.32	11.81
121.0	(4) #20 Dywidag bars	Yes	1.00	0.000	0.00	0.00	0.00	23.879	0.616	0.000	0.00	80.16
121.0	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.879	0.616	0.000	0.00	5.90
122.0	(8) 1 5/8" Coax	Yes	1.00	1.173	3.96	0.33	0.39	23.935	0.621	0.000	16.31	7.87
122.0	(1) 10 mm Cable	Yes	1.00	0.000	0.00	0.00	0.00	23.935	0.621	0.000	0.00	0.08
122.0	(2) 19.7 mm Cable	Yes	1.00	0.000	0.00	0.00	0.00	23.935	0.621	0.000	0.00	1.42
122.0	(2) 1/2" Coax	Yes	1.00	1.200	0.63	0.05	0.06	23.935	0.621	0.000	2.65	0.36
122.0	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.935	0.621	0.000	0.00	5.90
122.0	(8) 1 5/8" Coax	Yes	1.00	0.782	5.94	0.50	0.39	23.935	0.621	0.000	16.31	7.87
122.0	(12) 1 5/8" Coax	Yes	1.00	1.200	1.98	0.17	0.20	23.935	0.621	0.000	8.34	11.81
122.0	(4) #20 Dywidag bars	Yes	1.00	0.000	0.00	0.00	0.00	23.935	0.621	0.000	0.00	80.16
122.0	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.935	0.621	0.000	0.00	5.90
124.0	(8) 1 5/8" Coax	Yes	2.00	1.170	3.96	0.66	0.77	24.047	0.628	0.000	32.69	15.74
124.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.047	0.628	0.000	0.00	0.17
124.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.047	0.628	0.000	0.00	2.83
124.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	24.047	0.628	0.000	5.33	0.72
124.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.047	0.628	0.000	0.00	11.81
124.0	(8) 1 5/8" Coax	Yes	2.00	0.780	5.94	0.99	0.77	24.047	0.628	0.000	32.69	15.74
124.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	24.047	0.628	0.000	16.76	23.61
124.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	24.047	0.628	0.000	0.00	160.32
126.0	(8) 1 5/8" Coax	Yes	2.00	1.168	3.96	0.66	0.77	24.157	0.639	0.000	32.76	15.74
126.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.157	0.639	0.000	0.00	0.17
126.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.157	0.639	0.000	0.00	2.83
126.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	24.157	0.639	0.000	5.36	0.72
126.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.157	0.639	0.000	0.00	11.81
126.0	(8) 1 5/8" Coax	Yes	2.00	0.778	5.94	0.99	0.77	24.157	0.639	0.000	32.76	15.74
126.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	24.157	0.639	0.000	16.84	23.61
126.0	(4) #20 Dywidag bars	Yes	1.51	0.000	0.00	0.00	0.00	24.157	0.639	0.000	0.00	121.04
128.0	(8) 1 5/8" Coax	Yes	2.00	1.165	3.96	0.66	0.77	24.266	0.650	0.000	32.84	15.74
128.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.266	0.650	0.000	0.00	0.17
128.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.266	0.650	0.000	0.00	2.83
128.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	24.266	0.650	0.000	5.38	0.72
128.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.266	0.650	0.000	0.00	11.81
128.0	(8) 1 5/8" Coax	Yes	2.00	0.777	5.94	0.99	0.77	24.266	0.650	0.000	32.84	15.74
128.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	24.266	0.650	0.000	16.91	23.61
130.0	(8) 1 5/8" Coax	Yes	2.00	1.162	3.96	0.66	0.77	24.374	0.661	0.000	32.91	15.74
130.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.374	0.661	0.000	0.00	0.17
130.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.374	0.661	0.000	0.00	2.83
130.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	24.374	0.661	0.000	5.41	0.72
130.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.374	0.661	0.000	0.00	11.81
130.0	(8) 1 5/8" Coax	Yes	2.00	0.775	5.94	0.99	0.77	24.374	0.661	0.000	32.91	15.74
130.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	24.374	0.661	0.000	16.99	23.61
132.0	(8) 1 5/8" Coax	Yes	2.00	1.160	3.96	0.66	0.77	24.480	0.566	0.000	32.98	15.74
132.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.480	0.566	0.000	0.00	0.17
132.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.480	0.566	0.000	0.00	2.83
132.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	24.480	0.566	0.000	5.43	0.72
132.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.480	0.566	0.000	0.00	11.81
132.0	(8) 1 5/8" Coax	Yes	2.00	0.773	5.94	0.99	0.77	24.480	0.566	0.000	32.98	15.74
134.0	(8) 1 5/8" Coax	Yes	2.00	1.157	3.96	0.66	0.76	24.586	0.576	0.000	33.05	15.74

Pole :	302489	Code:	ANSI/TIA-222 Rev G		3/27/2012 1:57:35 PM
Location :	Enfd - Enfield, CT	Struct Class :	II		Page: 22
Height :	150.0 (ft)	Exposure Category :	B		
Base Dia :	37.38 (in)	Topographic Category :	1		
Top Dia :	15.00 (in)	Base Elev :	0.000 (ft)		
Shape :	12 Sides				
Taper :	0.156700 (in/ft)				

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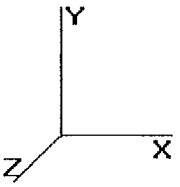


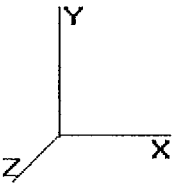
Load Case: 1.2D + 1.6W — 97.00 mph with No Ice — 31 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

134.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.586	0.576	0.000	0.00	0.17
134.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.586	0.576	0.000	0.00	2.83
134.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	24.586	0.576	0.000	5.45	0.72
134.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.586	0.576	0.000	0.00	11.81
134.0	(8) 1 5/8" Coax	Yes	2.00	0.772	5.94	0.99	0.76	24.586	0.576	0.000	33.05	15.74
136.0	(8) 1 5/8" Coax	Yes	2.00	1.155	3.96	0.66	0.76	24.690	0.586	0.000	33.12	15.74
136.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.690	0.586	0.000	0.00	0.17
136.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.690	0.586	0.000	0.00	2.83
136.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	24.690	0.586	0.000	5.48	0.72
136.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.690	0.586	0.000	0.00	11.81
136.0	(8) 1 5/8" Coax	Yes	2.00	0.770	5.94	0.99	0.76	24.690	0.586	0.000	33.12	15.74
138.0	(8) 1 5/8" Coax	Yes	2.00	1.152	3.96	0.66	0.76	24.793	0.597	0.000	33.19	15.74
138.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.793	0.597	0.000	0.00	0.17
138.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.793	0.597	0.000	0.00	2.83
138.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	24.793	0.597	0.000	5.50	0.72
138.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.793	0.597	0.000	0.00	11.81
138.0	(8) 1 5/8" Coax	Yes	2.00	0.768	5.94	0.99	0.76	24.793	0.597	0.000	33.19	15.74
140.0	(8) 1 5/8" Coax	Yes	2.00	1.150	3.96	0.66	0.76	24.895	0.608	0.000	33.26	15.74
140.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.895	0.608	0.000	0.00	0.17
140.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.895	0.608	0.000	0.00	2.83
140.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	24.895	0.608	0.000	5.52	0.72
140.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.895	0.608	0.000	0.00	11.81
140.0	(8) 1 5/8" Coax	Yes	2.00	0.767	5.94	0.99	0.76	24.895	0.608	0.000	33.26	15.74
142.0	(8) 1 5/8" Coax	Yes	2.00	1.148	3.96	0.66	0.76	24.996	0.270	0.000	33.33	15.74
142.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.996	0.270	0.000	0.00	0.17
142.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.996	0.270	0.000	0.00	2.83
142.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	24.996	0.270	0.000	5.54	0.72
144.0	(8) 1 5/8" Coax	Yes	2.00	1.145	3.96	0.66	0.76	25.096	0.275	0.000	33.39	15.74
144.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	25.096	0.275	0.000	0.00	0.17
144.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	25.096	0.275	0.000	0.00	2.83
144.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	25.096	0.275	0.000	5.57	0.72
146.0	(8) 1 5/8" Coax	Yes	2.00	1.143	3.96	0.66	0.75	25.196	0.242	0.000	33.46	15.74
146.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	25.196	0.242	0.000	0.00	0.17
146.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	25.196	0.242	0.000	0.00	2.83
148.0	(8) 1 5/8" Coax	Yes	2.00	1.141	3.96	0.66	0.75	25.294	0.247	0.000	33.52	15.74
148.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	25.294	0.247	0.000	0.00	0.17
148.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	25.294	0.247	0.000	0.00	2.83
150.0	(8) 1 5/8" Coax	Yes	2.00	1.139	3.96	0.66	0.75	25.391	0.252	0.000	33.59	15.74
150.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	25.391	0.252	0.000	0.00	0.17
150.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	25.391	0.252	0.000	0.00	2.83
										Totals:	5,436.06	16,765.48



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Load Case: 1.2D + 1.6W — 97.00 mph with No Ice — 31 Iterations

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

Wind Importance 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
2.00	281.00	769.24	0.00	0.00
4.00	279.17	766.14	0.00	0.00
6.00	277.34	763.05	0.00	0.00
8.00	275.51	759.96	0.00	0.00
10.00	273.68	756.87	0.00	0.00
12.00	271.85	753.78	0.00	0.00
14.00	270.03	750.69	0.00	0.00
16.00	268.20	747.60	0.00	0.00
18.00	266.37	744.51	0.00	0.00
20.00	264.54	741.42	0.00	0.00
22.00	262.71	738.33	0.00	0.00
24.00	260.88	735.24	0.00	0.00
26.00	259.05	732.15	0.00	0.00
28.00	257.22	729.06	0.00	0.00
30.00	255.59	725.97	0.00	0.00
31.50	193.07	542.57	0.00	0.00
32.00	65.27	247.48	0.00	0.00
34.00	264.40	987.04	0.00	0.00
35.67	221.78	818.37	0.00	0.00
36.00	44.25	111.47	0.00	0.00
38.00	268.58	667.97	0.00	0.00
40.00	270.35	665.39	0.00	0.00
42.00	271.93	662.81	0.00	0.00
44.00	273.34	660.24	0.00	0.00
46.00	274.58	657.66	0.00	0.00
48.00	275.68	655.09	0.00	0.00
50.00	276.62	652.51	0.00	0.00
52.00	277.44	649.94	0.00	0.00
54.00	278.12	647.36	0.00	0.00
56.00	959.56	795.99	0.00	0.00
58.00	279.14	642.14	0.00	0.00
60.00	279.48	639.57	0.00	0.00
62.00	279.72	636.99	0.00	0.00
64.00	279.86	634.42	0.00	0.00
66.00	279.90	631.84	0.00	0.00
68.00	279.86	629.26	0.00	0.00
70.00	279.73	626.69	0.00	0.00
70.00	0.05	0.10	0.00	0.00
72.00	283.22	802.33	0.00	0.00
73.50	212.13	598.94	0.00	0.00
74.00	70.48	145.23	0.00	0.00
76.00	282.67	580.03	0.00	0.00
78.00	282.25	577.97	0.00	0.00
80.00	281.77	575.91	0.00	0.00
82.00	281.21	573.85	0.00	0.00
84.00	280.59	571.79	0.00	0.00
86.00	279.91	569.73	0.00	0.00
88.00	279.16	567.67	0.00	0.00
90.00	278.35	565.60	0.00	0.00

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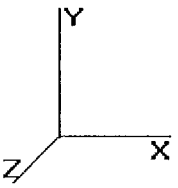

Load Case: 1.2D + 1.6W — 97.00 mph with No Ice — 31 Iterations

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

Wind Importance Factor : 1.00

92.00	277.48	563.54	0.00	0.00
94.00	276.56	561.48	0.00	0.00
96.00	275.58	559.42	0.00	0.00
98.00	274.55	557.36	0.00	0.00
100.0	273.46	555.30	0.00	0.00
102.0	272.33	553.24	0.00	0.00
104.0	271.14	551.18	0.00	0.00
106.0	269.82	549.12	0.00	0.00
108.0	268.46	547.06	0.00	0.00
110.0	267.04	545.00	0.00	0.00
110.0	0.04	0.09	0.00	0.00
112.0	1,493.90	816.41	0.00	0.00
114.0	264.09	487.81	0.00	0.00
116.0	262.55	486.26	0.00	0.00
118.0	260.97	484.72	0.00	0.00
120.0	259.35	483.17	0.00	0.00
121.0	128.92	241.01	0.00	0.00
122.0	694.11	508.86	0.00	0.00
124.0	255.99	334.68	0.00	0.00
126.0	254.25	293.85	0.00	0.00
128.0	252.48	171.27	0.00	0.00
130.0	3,282.38	2,229.28	0.00	0.00
132.0	231.77	144.56	0.00	0.00
134.0	229.81	143.02	0.00	0.00
136.0	227.83	141.47	0.00	0.00
138.0	225.81	139.93	0.00	0.00
140.0	2,153.21	2,224.94	0.00	0.00
142.0	188.35	109.29	0.00	0.00
144.0	842.20	473.26	0.00	278.56
146.0	178.38	105.48	0.00	0.00
148.0	176.12	103.93	0.00	0.00
150.0	4,490.86	3,527.79	0.00	10,828.90
Totals:	32,087.39	50,399.78	0.00	11,107.47

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:36 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 25
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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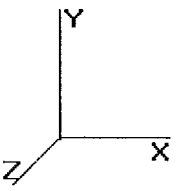

Load Case: 1.2D + 1.6W — 97.00 mph with No Ice — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60
Wind Importance 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	-50.36	-32.15	0.00	-3,338.97	0.00	3,338.97	3,133.66	1,566.83	4,776.46	2,358.91	0.00	0.00	0.877
2.00	-49.51	-32.00	0.00	-3,274.67	0.00	3,274.67	3,116.86	1,558.43	4,710.21	2,326.20	0.03	-0.15	0.869
4.00	-48.66	-31.84	0.00	-3,210.67	0.00	3,210.67	3,099.89	1,549.95	4,644.15	2,293.57	0.13	-0.29	0.860
6.00	-47.82	-31.68	0.00	-3,146.99	0.00	3,146.99	3,082.76	1,541.38	4,578.29	2,261.04	0.28	-0.44	0.851
8.00	-46.98	-31.52	0.00	-3,083.62	0.00	3,083.62	3,065.46	1,532.73	4,512.63	2,228.62	0.50	-0.59	0.842
10.00	-46.14	-31.36	0.00	-3,020.57	0.00	3,020.57	3,047.99	1,524.00	4,447.17	2,196.29	0.78	-0.74	0.833
12.00	-45.31	-31.20	0.00	-2,957.86	0.00	2,957.86	3,030.36	1,515.18	4,381.94	2,164.07	1.12	-0.89	0.824
14.00	-44.49	-31.03	0.00	-2,895.47	0.00	2,895.47	3,012.56	1,506.28	4,316.92	2,131.97	1.53	-1.04	0.815
16.00	-43.66	-30.86	0.00	-2,833.41	0.00	2,833.41	2,994.60	1,497.30	4,252.13	2,099.97	1.99	-1.18	0.806
18.00	-42.85	-30.69	0.00	-2,771.70	0.00	2,771.70	2,976.47	1,488.23	4,187.58	2,068.09	2.52	-1.33	0.797
20.00	-42.03	-30.51	0.00	-2,710.32	0.00	2,710.32	2,958.17	1,479.08	4,123.27	2,036.33	3.11	-1.48	0.787
22.00	-41.22	-30.34	0.00	-2,649.30	0.00	2,649.30	2,939.70	1,469.85	4,059.20	2,004.69	3.76	-1.63	0.777
24.00	-40.42	-30.16	0.00	-2,588.62	0.00	2,588.62	2,921.07	1,460.54	3,995.39	1,973.17	4.48	-1.78	0.768
26.00	-39.62	-29.98	0.00	-2,528.31	0.00	2,528.31	2,902.28	1,451.14	3,931.84	1,941.79	5.26	-1.93	0.758
28.00	-38.82	-29.80	0.00	-2,468.35	0.00	2,468.35	2,883.31	1,441.66	3,868.56	1,910.53	6.10	-2.08	0.748
30.00	-38.04	-29.60	0.00	-2,408.75	0.00	2,408.75	2,864.18	1,432.09	3,805.55	1,879.42	7.00	-2.22	0.738
31.50	-37.46	-29.44	0.00	-2,364.34	0.00	2,364.34	2,849.72	1,424.86	3,758.46	1,856.16	7.71	-2.34	0.730
32.00	-37.17	-29.42	0.00	-2,349.63	0.00	2,349.63	2,844.89	1,422.44	3,742.82	1,848.44	7.96	-2.37	0.718
34.00	-36.13	-29.20	0.00	-2,290.79	0.00	2,290.79	2,819.42	1,409.71	3,672.56	1,813.74	8.99	-2.52	0.709
35.67	-35.29	-28.98	0.00	-2,242.12	0.00	2,242.12	2,231.07	1,115.54	2,951.42	1,457.59	9.89	-2.64	0.814
36.00	-35.13	-28.99	0.00	-2,232.47	0.00	2,232.47	2,228.86	1,114.43	2,943.66	1,453.76	10.07	-2.66	0.811
38.00	-34.40	-28.78	0.00	-2,174.49	0.00	2,174.49	2,215.49	1,107.75	2,897.11	1,430.77	11.22	-2.82	0.798
40.00	-33.67	-28.57	0.00	-2,116.92	0.00	2,116.92	2,201.95	1,100.98	2,850.70	1,407.85	12.44	-2.97	0.784
42.00	-32.95	-28.35	0.00	-2,059.78	0.00	2,059.78	2,188.25	1,094.13	2,804.43	1,385.00	13.72	-3.13	0.771
44.00	-32.23	-28.13	0.00	-2,003.08	0.00	2,003.08	2,174.38	1,087.19	2,758.30	1,362.22	15.06	-3.28	0.757
46.00	-31.52	-27.90	0.00	-1,946.83	0.00	1,946.83	2,160.35	1,080.17	2,712.33	1,339.52	16.47	-3.43	0.743
48.00	-30.81	-27.66	0.00	-1,891.03	0.00	1,891.03	2,146.14	1,073.07	2,666.52	1,316.89	17.94	-3.58	0.729
50.00	-30.10	-27.43	0.00	-1,835.71	0.00	1,835.71	2,131.78	1,065.89	2,620.87	1,294.35	19.47	-3.73	0.715
52.00	-29.40	-27.18	0.00	-1,780.86	0.00	1,780.86	2,117.24	1,058.62	2,575.40	1,271.89	21.06	-3.88	0.701
54.00	-28.70	-26.93	0.00	-1,726.49	0.00	1,726.49	2,102.54	1,051.27	2,530.10	1,249.52	22.72	-4.03	0.687
56.00	-27.91	-25.99	0.00	-1,672.62	0.00	1,672.62	2,087.67	1,043.84	2,484.99	1,227.24	24.44	-4.18	0.672
58.00	-27.23	-25.74	0.00	-1,620.64	0.00	1,620.64	2,072.64	1,036.32	2,440.07	1,205.06	26.23	-4.33	0.658
60.00	-26.54	-25.48	0.00	-1,569.17	0.00	1,569.17	2,057.44	1,028.72	2,395.35	1,182.97	28.07	-4.47	0.644
62.00	-25.87	-25.21	0.00	-1,518.22	0.00	1,518.22	2,042.07	1,021.04	2,350.84	1,160.99	29.97	-4.62	0.630
64.00	-25.20	-24.94	0.00	-1,467.80	0.00	1,467.80	2,026.54	1,013.27	2,306.53	1,139.11	31.94	-4.76	0.616
66.00	-24.53	-24.67	0.00	-1,417.91	0.00	1,417.91	2,010.84	1,005.42	2,262.45	1,117.34	33.96	-4.90	0.601
68.00	-23.87	-24.40	0.00	-1,368.57	0.00	1,368.57	1,994.98	997.49	2,218.59	1,095.68	36.04	-5.05	0.587
70.00	-23.24	-24.09	0.00	-1,319.77	0.00	1,319.77	1,978.94	989.47	2,174.96	1,074.13	38.18	-5.19	0.572
70.00	-23.21	-24.12	0.00	-1,319.76	0.00	1,319.76	1,978.94	989.47	2,174.95	1,074.12	38.18	-5.19	0.572
72.00	-22.39	-23.81	0.00	-1,271.53	0.00	1,271.53	1,958.85	979.43	2,127.34	1,050.61	40.38	-5.32	0.550
73.50	-21.78	-23.57	0.00	-1,235.81	0.00	1,235.81	1,462.64	731.32	1,612.09	796.15	42.07	-5.42	0.639
74.00	-21.61	-23.52	0.00	-1,224.03	0.00	1,224.03	1,460.13	730.06	1,604.56	792.43	42.64	-5.46	0.635
76.00	-21.00	-23.23	0.00	-1,177.00	0.00	1,177.00	1,449.95	724.98	1,574.48	777.57	44.96	-5.60	0.616
78.00	-20.40	-22.94	0.00	-1,130.53	0.00	1,130.53	1,439.61	719.81	1,544.48	762.76	47.33	-5.74	0.597
80.00	-19.80	-22.65	0.00	-1,084.64	0.00	1,084.64	1,429.11	714.55	1,514.58	747.99	49.76	-5.88	0.578
82.00	-19.21	-22.36	0.00	-1,039.34	0.00	1,039.34	1,418.44	709.22	1,484.77	733.27	52.25	-6.02	0.560
84.00	-18.62	-22.06	0.00	-994.62	0.00	994.62	1,407.60	703.80	1,455.07	718.61	54.79	-6.15	0.541
86.00	-18.03	-21.76	0.00	-950.49	0.00	950.49	1,396.60	698.30	1,425.49	704.00	57.39	-6.28	0.522
88.00	-17.45	-21.46	0.00	-906.97	0.00	906.97	1,385.43	692.71	1,396.02	689.44	60.05	-6.41	0.503
90.00	-16.87	-21.16	0.00	-864.04	0.00	864.04	1,374.09	687.04	1,366.68	674.95	62.76	-6.54	0.484
92.00	-16.30	-20.85	0.00	-821.72	0.00	821.72	1,362.59	681.29	1,337.48	660.53	65.51	-6.66	0.465

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:36 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 26
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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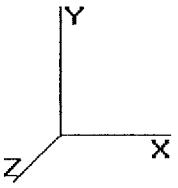

Load Case: 1.2D + 1.6W — 97.00 mph with No Ice — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

94.00	-15.73	-20.55	0.00	-780.02	0.00	780.02	1,350.92	675.46	1,308.41	646.17	68.32	-6.78	0.446
96.00	-15.17	-20.24	0.00	-738.93	0.00	738.93	1,339.08	669.54	1,279.49	631.89	71.18	-6.90	0.427
98.00	-14.61	-19.93	0.00	-698.46	0.00	698.46	1,327.08	663.54	1,250.72	617.68	74.09	-7.01	0.407
100.00	-14.06	-19.61	0.00	-658.61	0.00	658.61	1,314.91	657.46	1,222.10	603.55	77.05	-7.12	0.388
102.00	-13.51	-19.30	0.00	-619.38	0.00	619.38	1,302.58	651.29	1,193.66	589.50	80.05	-7.23	0.369
104.00	-12.96	-18.98	0.00	-580.79	0.00	580.79	1,290.07	645.04	1,165.38	575.54	83.09	-7.33	0.350
106.00	-12.42	-18.67	0.00	-542.82	0.00	542.82	1,277.41	638.70	1,137.28	561.66	86.18	-7.43	0.331
108.00	-11.88	-18.35	0.00	-505.49	0.00	505.49	1,264.57	632.29	1,109.37	547.87	89.30	-7.53	0.311
110.00	-11.36	-18.02	0.00	-468.80	0.00	468.80	1,247.14	623.57	1,077.81	532.29	92.47	-7.62	0.293
110.00	-11.35	-18.03	0.00	-468.79	0.00	468.79	1,247.13	623.57	1,077.80	532.29	92.47	-7.62	0.293
110.00	-11.35	-18.03	0.00	-468.79	0.00	468.79	846.54	423.27	735.96	363.46	92.47	-7.62	0.354
112.00	-10.71	-16.46	0.00	-432.74	0.00	432.74	839.47	419.74	718.87	355.02	95.67	-7.71	0.329
114.00	-10.24	-16.14	0.00	-399.83	0.00	399.83	832.23	416.12	701.82	346.60	98.91	-7.80	0.306
116.00	-9.77	-15.83	0.00	-367.54	0.00	367.54	824.82	412.41	684.82	338.21	102.19	-7.89	0.284
118.00	-9.30	-15.52	0.00	-335.88	0.00	335.88	817.25	408.63	667.88	329.84	105.50	-7.97	0.262
120.00	-8.85	-15.20	0.00	-304.84	0.00	304.84	809.51	404.76	651.00	321.50	108.85	-8.04	0.240
121.00	-8.62	-15.05	0.00	-289.64	0.00	289.64	805.58	402.79	642.58	317.35	110.53	-8.08	0.229
121.00	-8.62	-15.05	0.00	-289.64	0.00	289.64	805.58	402.79	642.58	317.35	110.53	-8.08	0.925
122.00	-8.17	-14.31	0.00	-274.59	0.00	274.59	801.61	400.80	634.19	313.20	112.23	-8.12	0.888
124.00	-7.81	-14.05	0.00	-245.97	0.00	245.97	793.54	396.77	617.45	304.94	115.67	-8.39	0.818
126.00	-7.50	-13.78	0.00	-217.87	0.00	217.87	785.30	392.65	600.81	296.72	119.23	-8.64	0.745
128.00	-7.32	-13.54	0.00	-190.31	0.00	190.31	776.89	388.45	584.25	288.54	122.89	-8.88	0.670
130.00	-5.59	-9.97	0.00	-163.24	0.00	163.24	768.32	384.16	567.78	280.41	126.64	-9.09	0.590
132.00	-5.46	-9.73	0.00	-143.31	0.00	143.31	759.59	379.79	551.42	272.33	130.47	-9.29	0.534
134.00	-5.32	-9.50	0.00	-123.84	0.00	123.84	750.68	375.34	535.17	264.30	134.39	-9.47	0.476
136.00	-5.20	-9.26	0.00	-104.85	0.00	104.85	741.61	370.81	519.04	256.33	138.37	-9.63	0.417
138.00	-5.08	-9.03	0.00	-86.32	0.00	86.32	732.38	366.19	503.02	248.42	142.42	-9.77	0.355
140.00	-3.24	-6.53	0.00	-68.26	0.00	68.26	722.98	361.49	487.14	240.58	146.52	-9.90	0.289
142.00	-3.15	-6.33	0.00	-55.19	0.00	55.19	713.41	356.70	471.39	232.80	150.67	-10.00	0.242
144.00	-2.83	-5.43	0.00	-42.25	0.00	42.25	701.03	350.52	454.07	224.25	154.85	-10.09	0.193
146.00	-2.75	-5.24	0.00	-31.39	0.00	31.39	687.09	343.54	436.08	215.36	159.07	-10.16	0.150
148.00	-2.67	-5.05	0.00	-20.92	0.00	20.92	673.14	336.57	418.45	206.66	163.32	-10.21	0.105
150.00	0.00	-4.49	0.00	-10.83	0.00	10.83	659.19	329.60	401.19	198.13	167.58	-10.24	0.055

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:36 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 27
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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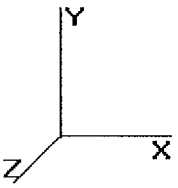

Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance 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)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	16.018	17.62	261.71		1.000	0.000	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.70	16.018	17.62	259.52		1.200	* 0.000	2.00	6.423	7.71	217.3	0.0	406.1
4.00		1.00	0.70	16.018	17.62	257.33		1.200	* 0.000	2.00	6.369	7.64	215.5	0.0	403.8
6.00		1.00	0.70	16.018	17.62	255.13		1.200	* 0.000	2.00	6.315	7.58	213.6	0.0	401.5
8.00		1.00	0.70	16.018	17.62	252.94		1.200	* 0.000	2.00	6.261	7.51	211.8	0.0	399.2
10.00		1.00	0.70	16.018	17.62	250.74		1.200	* 0.000	2.00	6.206	7.45	210.0	0.0	396.9
12.00		1.00	0.70	16.018	17.62	248.55		1.200	* 0.000	2.00	6.152	7.38	208.1	0.0	394.5
14.00		1.00	0.70	16.018	17.62	246.35		1.200	* 0.000	2.00	6.098	7.32	206.3	0.0	392.2
16.00		1.00	0.70	16.018	17.62	244.16		1.200	* 0.000	2.00	6.044	7.25	204.5	0.0	389.9
18.00		1.00	0.70	16.018	17.62	241.97		1.200	* 0.000	2.00	5.990	7.19	202.6	0.0	387.6
20.00		1.00	0.70	16.018	17.62	239.77		1.200	* 0.000	2.00	5.936	7.12	200.8	0.0	385.3
22.00		1.00	0.70	16.018	17.62	237.58		1.200	* 0.000	2.00	5.882	7.06	199.0	0.0	382.9
24.00		1.00	0.70	16.018	17.62	235.38		1.200	* 0.000	2.00	5.828	6.99	197.2	0.0	380.6
26.00		1.00	0.70	16.018	17.62	233.19		1.200	* 0.000	2.00	5.774	6.93	195.3	0.0	378.3
28.00		1.00	0.70	16.018	17.62	230.99		1.200	* 0.000	2.00	5.720	6.86	193.5	0.0	376.0
30.00		1.00	0.70	16.031	17.63	228.90		1.200	* 0.000	2.00	5.666	6.80	191.8	0.0	373.7
31.50	Bot - Section 2	1.00	0.71	16.257	17.88	228.84		1.200	* 0.000	1.50	4.215	5.06	144.7	0.0	278.8
32.00		1.00	0.71	16.330	17.96	228.80		1.200	* 0.000	0.50	1.424	1.71	49.1	0.0	142.9
34.00		1.00	0.72	16.615	18.27	228.56		1.200	* 0.000	2.00	5.665	6.80	198.8	0.0	569.5
35.67	Top - Section 1	1.00	0.73	16.844	18.52	228.25		1.200	* 0.000	1.67	4.681	5.62	166.5	0.0	471.4
36.00		1.00	0.73	16.889	18.57	232.67		1.200	* 0.000	0.33	0.931	1.12	33.2	0.0	55.2
38.00		1.00	0.75	17.152	18.86	232.20		1.200	* 0.000	2.00	5.557	6.67	201.3	0.0	330.2
40.00		1.00	0.76	17.405	19.14	231.62		1.200	* 0.000	2.00	5.503	6.60	202.3	0.0	328.2
42.00		1.00	0.77	17.649	19.41	230.94		1.200	* 0.000	2.00	5.449	6.54	203.1	0.0	326.3
44.00		1.00	0.78	17.885	19.67	230.16		1.200	* 0.000	2.00	5.395	6.47	203.8	0.0	324.4
46.00		1.00	0.79	18.114	19.92	229.30		1.200	* 0.000	2.00	5.341	6.41	204.3	0.0	322.4
48.00		1.00	0.80	18.335	20.16	228.35		1.200	* 0.000	2.00	5.287	6.34	204.7	0.0	320.5
50.00		1.00	0.81	18.551	20.40	227.32		1.200	* 0.000	2.00	5.233	6.28	205.0	0.0	318.6
52.00		1.00	0.82	18.760	20.63	226.22		1.200	* 0.000	2.00	5.179	6.21	205.2	0.0	316.7
54.00		1.00	0.82	18.963	20.85	225.06		1.200	* 0.000	2.00	5.125	6.15	205.2	0.0	314.7
56.00	Appertunance(s)	1.00	0.83	19.161	21.07	223.83		1.200	* 0.000	2.00	5.071	6.08	205.2	0.0	312.8
58.00		1.00	0.84	19.354	21.29	222.54		1.200	* 0.000	2.00	5.016	6.02	205.1	0.0	310.9
60.00		1.00	0.85	19.543	21.49	221.20		1.200	* 0.000	2.00	4.962	5.95	204.8	0.0	308.9
62.00		1.00	0.86	19.726	21.69	219.80		1.200	* 0.000	2.00	4.908	5.89	204.5	0.0	307.0
64.00		1.00	0.87	19.906	21.89	218.36		1.200	* 0.000	2.00	4.854	5.83	204.1	0.0	305.1
66.00		1.00	0.87	20.082	22.09	216.86		1.200	* 0.000	2.00	4.800	5.76	203.6	0.0	303.1
68.00		1.00	0.88	20.254	22.27	215.32		1.200	* 0.000	2.00	4.746	5.70	203.0	0.0	301.2
70.00		1.00	0.89	20.422	22.46	213.74		1.200	* 0.000	2.00	4.692	5.63	202.4	0.0	299.3
70.00	Bot - Section 3	1.00	0.89	20.422	22.46	213.74		1.200	* 0.000	0.00	0.001	0.00	0.0	0.0	0.1
72.00		1.00	0.90	20.587	22.64	212.11		1.200	* 0.000	2.00	4.723	5.67	205.4	0.0	431.0
73.50	Top - Section 2	1.00	0.90	20.709	22.78	210.87		1.200	* 0.000	1.50	3.508	4.21	153.5	0.0	321.1
74.00		1.00	0.90	20.749	22.82	214.43		1.200	* 0.000	0.50	1.162	1.39	50.9	0.0	66.3
76.00		1.00	0.91	20.908	22.99	212.74		1.200	* 0.000	2.00	4.616	5.54	203.8	0.0	264.3
78.00		1.00	0.92	21.064	23.17	211.02		1.200	* 0.000	2.00	4.562	5.47	202.9	0.0	262.7
80.00		1.00	0.92	21.217	23.33	209.26		1.200	* 0.000	2.00	4.508	5.41	202.0	0.0	261.2
82.00		1.00	0.93	21.367	23.50	207.46		1.200	* 0.000	2.00	4.454	5.34	201.0	0.0	259.6
84.00		1.00	0.94	21.514	23.66	205.63		1.200	* 0.000	2.00	4.400	5.28	199.9	0.0	258.1
86.00		1.00	0.94	21.660	23.82	203.77		1.200	* 0.000	2.00	4.346	5.21	198.8	0.0	256.5
88.00		1.00	0.95	21.802	23.98	201.88		1.200	* 0.000	2.00	4.292	5.15	197.6	0.0	255.0
90.00		1.00	0.95	21.943	24.13	199.97		1.200	* 0.000	2.00	4.238	5.09	196.4	0.0	253.5
92.00		1.00	0.96	22.081	24.28	198.02		1.200	* 0.000	2.00	4.183	5.02	195.1	0.0	251.9

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:36 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 28
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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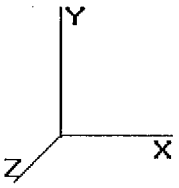

Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

94.00		1.00	0.97	22.217	24.43	196.04	1.200 *	0.000	2.00	4.129	4.96	193.8	0.0	250.4
96.00		1.00	0.97	22.351	24.58	194.04	1.200 *	0.000	2.00	4.075	4.89	192.4	0.0	248.8
98.00		1.00	0.98	22.483	24.73	192.01	1.200 *	0.000	2.00	4.021	4.83	190.9	0.0	247.3
100.0		1.00	0.98	22.613	24.87	189.96	1.200 *	0.000	2.00	3.967	4.76	189.5	0.0	245.7
102.0		1.00	0.99	22.742	25.01	187.89	1.200 *	0.000	2.00	3.913	4.70	187.9	0.0	244.2
104.0		1.00	0.99	22.868	25.15	185.79	1.200 *	0.000	2.00	3.859	4.63	186.4	0.0	242.6
106.0		1.00	1.00	22.993	25.29	183.66	1.200 *	0.000	2.00	3.805	4.57	184.8	0.0	241.1
108.0		1.00	1.01	23.116	25.42	181.52	1.200 *	0.000	2.00	3.751	4.50	183.1	0.0	239.5
110.0		1.00	1.01	23.238	25.56	179.35	1.200 *	0.000	2.00	3.697	4.44	181.4	0.0	238.0
110.0	Top - Section 3	1.00	1.01	23.238	25.56	179.35	1.200 *	0.000	0.00	0.001	0.00	0.0	0.0	0.0
112.0	Appertunance(s)	1.00	1.02	23.358	25.69	177.16	1.200 *	0.000	2.00	3.642	4.37	179.7	0.0	210.9
114.0		1.00	1.02	23.476	25.82	174.96	1.200 *	0.000	2.00	3.589	4.31	177.9	0.0	209.8
116.0		1.00	1.03	23.593	25.95	172.73	1.200 *	0.000	2.00	3.535	4.24	176.1	0.0	208.7
118.0		1.00	1.03	23.708	26.07	170.48	1.200 *	0.000	2.00	3.480	4.18	174.3	0.0	207.5
120.0		1.00	1.04	23.823	26.20	168.21	1.200 *	0.000	2.00	3.426	4.11	172.4	0.0	206.3
121.0	Reinf. Top	1.00	1.04	23.879	26.26	167.07	1.200 *	0.000	1.00	1.693	2.03	85.4	0.0	102.7
122.0	Appertunance(s)	1.00	1.04	23.935	26.32	165.93	1.200 *	0.000	1.00	1.679	2.02	84.9	0.0	35.6
124.0		1.00	1.05	24.047	26.45	163.63	1.200 *	0.000	2.00	3.318	3.98	168.5	0.0	70.4
126.0		1.00	1.05	24.157	26.57	161.31	1.200 *	0.000	2.00	3.264	3.92	166.5	0.0	69.3
128.0		1.00	1.06	24.266	26.69	158.97	1.200 *	0.000	2.00	3.210	3.85	164.5	0.0	68.1
130.0	Appertunance(s)	1.00	1.06	24.374	26.81	156.62	1.200 *	0.000	2.00	3.156	3.79	162.5	0.0	66.9
132.0		1.00	1.07	24.480	26.92	154.24	1.200 *	0.000	2.00	3.102	3.72	160.4	0.0	65.8
134.0		1.00	1.07	24.586	27.04	151.86	1.200 *	0.000	2.00	3.048	3.66	158.3	0.0	64.6
136.0		1.00	1.07	24.690	27.15	149.46	1.200 *	0.000	2.00	2.994	3.59	156.1	0.0	63.5
138.0		1.00	1.08	24.793	27.27	147.04	1.200 *	0.000	2.00	2.940	3.53	153.9	0.0	62.3
140.0	Appertunance(s)	1.00	1.08	24.895	27.38	144.60	1.200 *	0.000	2.00	2.886	3.46	151.7	0.0	61.2
142.0		1.00	1.09	24.996	27.49	142.16	1.200 *	0.000	2.00	2.832	3.40	149.5	0.0	60.0
144.0	Appertunance(s)	1.00	1.09	25.096	27.60	139.69	1.200 *	0.000	2.00	2.777	3.33	147.2	0.0	58.8
146.0		1.00	1.10	25.196	27.71	137.22	1.200 *	0.000	2.00	2.723	3.27	144.9	0.0	57.7
148.0		1.00	1.10	25.294	27.82	134.73	1.200 *	0.000	2.00	2.669	3.20	142.6	0.0	56.5
150.0	Appertunance(s)	1.00	1.11	25.391	27.93	132.22	1.200 *	0.000	2.00	2.615	3.14	140.2	0.0	55.4
* = Cf Adjusted By Linear Load Ra Effect							Totals:		150.00			14,242.3	0.0	20,117.7

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:36 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 29
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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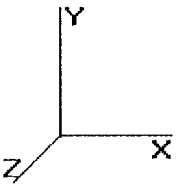


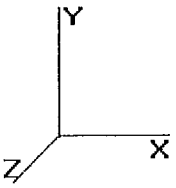
Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Discrete Appurtenance Segment Forces (Factored)

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Ka	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
56.00	Channel Master Type	1	19.161	21.077	1.00	1.00	20.19	0.000	0.000	680.88	0.00	0.00	113.40
112.0	24" x 24" Junction	1	23.358	25.693	0.80	0.80	3.84	0.000	0.000	157.86	0.00	0.00	18.00
112.0	Argus LLPX310R	3	23.358	25.693	0.58	0.80	7.52	0.000	0.000	308.98	0.00	0.00	14.47
112.0	Collar	1	23.358	25.693	1.00	1.00	8.50	0.000	0.000	349.43	0.00	0.00	36.00
112.0	DragonWave A-ANT-	2	23.358	25.693	0.72	0.80	6.75	0.000	0.000	277.64	0.00	0.00	48.60
112.0	DragonWave Horizon	2	23.358	25.693	0.40	0.80	0.34	0.000	0.000	14.14	0.00	0.00	19.08
112.0	NextNet BTS-2500	3	23.358	25.693	0.54	0.80	2.93	0.000	0.000	120.31	0.00	0.00	94.50
122.0	Flush Mounts	1	23.935	26.329	1.00	1.00	3.50	0.000	0.000	147.44	0.00	0.00	180.00
122.0	RFS APXV18-206517S-	3	23.935	26.329	0.64	0.80	9.93	0.000	0.000	418.16	0.00	0.00	71.28
130.0	Antel BXA-171085-12C	3	24.374	26.811	0.58	0.80	8.28	0.000	0.000	355.07	0.00	0.00	40.50
130.0	Antel BXA-70063-4CF-	3	24.374	26.811	0.62	0.80	8.70	0.000	0.000	373.38	0.00	0.00	26.73
130.0	Antel LPA-80080/6CF	6	24.374	26.811	1.20	0.80	31.10	0.000	0.000	1,334.29	0.00	0.00	113.40
130.0	RFS FD9R6004/2C-3L	6	24.374	26.811	0.40	0.80	0.89	0.000	0.000	38.09	0.00	0.00	14.04
130.0	Round Low Profile Pl	1	24.374	26.811	1.00	1.00	21.70	0.000	0.000	930.87	0.00	0.00	1,350.00
140.0	Andrew Dual Duplex T	6	24.895	27.385	0.40	0.80	1.61	0.000	0.000	70.46	0.00	0.00	59.40
140.0	EMS RR90-17-02DP	3	24.895	27.385	0.51	0.80	6.70	0.000	0.000	293.43	0.00	0.00	48.60
140.0	Flat Low Profile Pla	1	24.895	27.385	1.00	1.00	26.10	0.000	0.000	1,143.59	0.00	0.00	1,350.00
140.0	RFS APX16DWV-	3	24.895	27.385	0.53	0.80	9.63	0.000	0.000	421.98	0.00	0.00	106.92
144.0	Diamond X50A	2	25.235	27.758	1.00	1.00	2.24	0.000	2.800	99.49	0.00	278.56	4.14
144.0	Flat Side Arm	2	25.096	27.606	1.00	1.00	12.60	0.000	0.000	556.54	0.00	0.00	270.00
150.0	ADC DD1900	6	25.630	28.193	0.38	0.75	2.88	0.000	5.000	129.91	0.00	649.56	65.34
150.0	Allgon 7770.00	6	25.630	28.193	0.49	0.75	16.12	0.000	5.000	727.00	0.00	3,635.02	189.00
150.0	Andrew SBNH-	1	25.630	28.193	0.56	0.75	6.44	0.000	5.000	290.53	0.00	1,452.64	59.49
150.0	Decibel DB809KE-SY	1	25.661	28.227	1.00	1.00	3.40	0.000	5.667	153.56	0.00	870.13	23.40
150.0	Ericsson RRUS 11	6	25.487	28.036	0.50	1.00	8.82	0.000	2.000	395.64	0.00	791.28	297.00
150.0	Flat Platform w/ Han	1	25.391	27.930	1.00	1.00	42.40	0.000	0.000	1,894.76	0.00	0.00	1,800.00
150.0	Powerwave P65-17-	2	25.630	28.193	0.64	0.75	14.62	0.000	5.000	659.68	0.00	3,298.39	106.20
150.0	Raycap DC6-48-60-18-	1	25.487	28.036	1.00	1.00	1.47	0.000	2.000	65.94	0.00	131.88	28.62
										12,409.05			6,548.11



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Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance 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	F X (lb)	Dead Load (lb)
2.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.325	0.000	22.33	11.81
2.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.325	0.000	0.00	0.13
2.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.325	0.000	0.00	2.12
2.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.325	0.000	3.55	0.54
2.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.325	0.000	0.00	8.85
2.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.325	0.000	26.68	11.81
2.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.325	0.000	11.16	17.71
2.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.325	0.000	0.00	120.24
2.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.325	0.000	0.00	8.85
2.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.325	0.000	0.00	1.08
2.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.325	0.000	0.00	13.14
2.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.325	0.000	0.00	0.05
4.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.327	0.000	22.33	11.81
4.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.327	0.000	0.00	0.13
4.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.327	0.000	0.00	2.12
4.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.327	0.000	3.55	0.54
4.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.327	0.000	0.00	8.85
4.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.327	0.000	26.68	11.81
4.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.327	0.000	11.16	17.71
4.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.327	0.000	0.00	120.24
4.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.327	0.000	0.00	8.85
4.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.327	0.000	0.00	1.08
4.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.327	0.000	0.00	13.14
4.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.327	0.000	0.00	0.05
6.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.330	0.000	22.33	11.81
6.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.330	0.000	0.00	0.13
6.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.330	0.000	0.00	2.12
6.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.330	0.000	3.55	0.54
6.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.330	0.000	0.00	8.85
6.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.330	0.000	26.68	11.81
6.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.330	0.000	11.16	17.71
6.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.330	0.000	0.00	120.24
6.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.330	0.000	0.00	8.85
6.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.330	0.000	0.00	1.08
6.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.330	0.000	0.00	13.14
6.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.330	0.000	0.00	0.05
8.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.333	0.000	22.33	11.81
8.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.333	0.000	0.00	0.13
8.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.333	0.000	0.00	2.12
8.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.333	0.000	3.55	0.54
8.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.333	0.000	0.00	8.85
8.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.333	0.000	26.68	11.81
8.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.333	0.000	11.16	17.71
8.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.333	0.000	0.00	120.24
8.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.333	0.000	0.00	8.85
8.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.333	0.000	0.00	1.08
8.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.333	0.000	0.00	13.14
8.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.333	0.000	0.00	0.05
10.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.336	0.000	22.33	11.81
10.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.336	0.000	0.00	0.13
10.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.336	0.000	0.00	2.12

Pole :	302489				Code: ANSI/TIA-222 Rev G						3/27/2012 1:57:36 PM	
Location :	Enfd - Enfield, CT				Struct Class : II						Page: 31	
Height :	150.0 (ft)				Exposure Category : B							
Base Dia :	37.38 (in)				Topographic Category : 1							
Top Dia :	15.00 (in)				Base Elev : 0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156700 (in/ft)											

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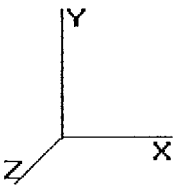

Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

10.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.336	0.000	3.55	0.54
10.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.336	0.000	0.00	8.85
10.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.336	0.000	26.68	11.81
10.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.336	0.000	11.16	17.71
10.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.336	0.000	0.00	120.24
10.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.336	0.000	0.00	8.85
10.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.336	0.000	0.00	1.08
10.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.336	0.000	0.00	13.14
10.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.336	0.000	0.00	0.05
12.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.339	0.000	22.33	11.81
12.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.339	0.000	0.00	0.13
12.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.339	0.000	0.00	2.12
12.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.339	0.000	3.55	0.54
12.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.339	0.000	0.00	8.85
12.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.339	0.000	26.68	11.81
12.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.339	0.000	11.16	17.71
12.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.339	0.000	0.00	120.24
12.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.339	0.000	0.00	8.85
12.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.339	0.000	0.00	1.08
12.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.339	0.000	0.00	13.14
12.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.339	0.000	0.00	0.05
14.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.342	0.000	22.33	11.81
14.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.342	0.000	0.00	0.13
14.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.342	0.000	0.00	2.12
14.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.342	0.000	3.55	0.54
14.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.342	0.000	0.00	8.85
14.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.342	0.000	26.68	11.81
14.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.342	0.000	11.16	17.71
14.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.342	0.000	0.00	120.24
14.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.342	0.000	0.00	8.85
14.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.342	0.000	0.00	1.08
14.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.342	0.000	0.00	13.14
14.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.342	0.000	0.00	0.05
16.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.345	0.000	22.33	11.81
16.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.345	0.000	0.00	0.13
16.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.345	0.000	0.00	2.12
16.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.345	0.000	3.55	0.54
16.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.345	0.000	0.00	8.85
16.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.345	0.000	26.68	11.81
16.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.345	0.000	11.16	17.71
16.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.345	0.000	0.00	120.24
16.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.345	0.000	0.00	8.85
16.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.345	0.000	0.00	1.08
16.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.345	0.000	0.00	13.14
16.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.345	0.000	0.00	0.05
18.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.348	0.000	22.33	11.81
18.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.348	0.000	0.00	0.13
18.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.348	0.000	0.00	2.12
18.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.348	0.000	3.55	0.54
18.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.348	0.000	0.00	8.85
18.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.348	0.000	26.68	11.81
18.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.348	0.000	11.16	17.71
18.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.348	0.000	0.00	120.24
18.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.348	0.000	0.00	8.85
18.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.348	0.000	0.00	1.08
18.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.348	0.000	0.00	13.14
18.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.348	0.000	0.00	0.05

Pole :	302489			Code: ANSI/TIA-222 Rev G						3/27/2012 1:57:36 PM	
Location :	Enfd - Enfield, CT			Struct Class : II						Page: 32	
Height :	150.0 (ft)			Exposure Category : B							
Base Dia :	37.38 (in)			Topographic Category : 1							
Top Dia :	15.00 (in)			Base Elev : 0.000 (ft)							
Shape :	12 Sides										
Taper :	0.156700 (in/ft)										

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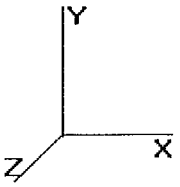

Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

20.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.351	0.000	22.33	11.81
20.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.351	0.000	0.00	0.13
20.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.351	0.000	0.00	2.12
20.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.351	0.000	3.55	0.54
20.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.351	0.000	0.00	8.85
20.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.351	0.000	26.68	11.81
20.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.351	0.000	11.16	17.71
20.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.351	0.000	0.00	120.24
20.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.351	0.000	0.00	8.85
20.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.351	0.000	0.00	1.08
20.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.351	0.000	0.00	13.14
20.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.351	0.000	0.00	0.05
22.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.354	0.000	22.33	11.81
22.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.354	0.000	0.00	0.13
22.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.354	0.000	0.00	2.12
22.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.354	0.000	3.55	0.54
22.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.354	0.000	0.00	8.85
22.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.354	0.000	26.68	11.81
22.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.354	0.000	11.16	17.71
22.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.354	0.000	0.00	120.24
22.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.354	0.000	0.00	8.85
22.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.354	0.000	0.00	1.08
22.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.354	0.000	0.00	13.14
22.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.354	0.000	0.00	0.05
24.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.358	0.000	22.33	11.81
24.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.358	0.000	0.00	0.13
24.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.358	0.000	0.00	2.12
24.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.358	0.000	3.55	0.54
24.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.358	0.000	0.00	8.85
24.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.358	0.000	26.68	11.81
24.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.358	0.000	11.16	17.71
24.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.358	0.000	0.00	120.24
24.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.358	0.000	0.00	8.85
24.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.358	0.000	0.00	1.08
24.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.358	0.000	0.00	13.14
24.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.358	0.000	0.00	0.05
26.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.361	0.000	22.33	11.81
26.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.361	0.000	0.00	0.13
26.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.361	0.000	0.00	2.12
26.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.361	0.000	3.55	0.54
26.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.361	0.000	0.00	8.85
26.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.361	0.000	26.68	11.81
26.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.361	0.000	11.16	17.71
26.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.361	0.000	0.00	120.24
26.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.361	0.000	0.00	8.85
26.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.361	0.000	0.00	1.08
26.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.361	0.000	0.00	13.14
26.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.361	0.000	0.00	0.05
28.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.018	0.365	0.000	22.33	11.81
28.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.365	0.000	0.00	0.13
28.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.365	0.000	0.00	2.12
28.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.018	0.365	0.000	3.55	0.54
28.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.365	0.000	0.00	8.85
28.00	(8) 1 5/8" Coax	Yes	2.00	0.956	5.94	0.99	0.95	16.018	0.365	0.000	26.68	11.81
28.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.018	0.365	0.000	11.16	17.71
28.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.365	0.000	0.00	120.24
28.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.365	0.000	0.00	8.85

Pole :	302489				Code: ANSI/TIA-222 Rev G						3/27/2012 1:57:37 PM	
Location :	Enfd - Enfield, CT				Struct Class : II						Page: 33	
Height :	150.0 (ft)				Exposure Category : B							
Base Dia :	37.38 (in)				Topographic Category : 1							
Top Dia :	15.00 (in)				Base Elev : 0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156700 (in/ft)											

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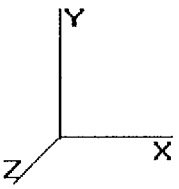


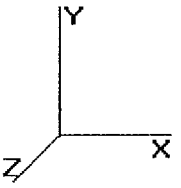
Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

28.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.365	0.000	0.00	1.08
28.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.365	0.000	0.00	13.14
28.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.018	0.365	0.000	0.00	0.05
30.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.031	0.368	0.000	22.35	11.81
30.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.031	0.368	0.000	0.00	0.13
30.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.031	0.368	0.000	0.00	2.12
30.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.031	0.368	0.000	3.56	0.54
30.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.031	0.368	0.000	0.00	8.85
30.00	(8) 1 5/8" Coax	Yes	2.00	0.955	5.94	0.99	0.95	16.031	0.368	0.000	26.69	11.81
30.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.031	0.368	0.000	11.17	17.71
30.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.031	0.368	0.000	0.00	120.24
30.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.031	0.368	0.000	0.00	8.85
30.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.031	0.368	0.000	0.00	1.08
30.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.031	0.368	0.000	0.00	13.14
30.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.031	0.368	0.000	0.00	0.05
31.50	(8) 1 5/8" Coax	Yes	1.50	1.200	3.96	0.50	0.59	16.257	0.371	0.000	17.00	8.86
31.50	(1) 10 mm Cable	Yes	1.50	0.000	0.00	0.00	0.00	16.257	0.371	0.000	0.00	0.09
31.50	(2) 19.7 mm Cable	Yes	1.50	0.000	0.00	0.00	0.00	16.257	0.371	0.000	0.00	1.59
31.50	(2) 1/2" Coax	Yes	1.50	1.200	0.63	0.08	0.09	16.257	0.371	0.000	2.70	0.41
31.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	16.257	0.371	0.000	0.00	6.64
31.50	(8) 1 5/8" Coax	Yes	1.50	0.949	5.94	0.74	0.70	16.257	0.371	0.000	20.16	8.86
31.50	(12) 1 5/8" Coax	Yes	1.50	1.200	1.98	0.25	0.30	16.257	0.371	0.000	8.50	13.29
31.50	(4) #20 Dywidag bars	Yes	1.50	0.000	0.00	0.00	0.00	16.257	0.371	0.000	0.00	90.20
31.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	16.257	0.371	0.000	0.00	6.64
31.50	(4) 1/2" Coax	Yes	1.50	0.000	0.00	0.00	0.00	16.257	0.371	0.000	0.00	0.81
31.50	(2) 2" Cond.	Yes	1.50	0.000	0.00	0.00	0.00	16.257	0.371	0.000	0.00	9.86
31.50	(1) RG6	Yes	1.50	0.000	0.00	0.00	0.00	16.257	0.371	0.000	0.00	0.04
32.00	(8) 1 5/8" Coax	Yes	0.50	1.200	3.96	0.16	0.20	16.330	0.373	0.000	5.69	2.95
32.00	(1) 10 mm Cable	Yes	0.50	0.000	0.00	0.00	0.00	16.330	0.373	0.000	0.00	0.03
32.00	(2) 19.7 mm Cable	Yes	0.50	0.000	0.00	0.00	0.00	16.330	0.373	0.000	0.00	0.53
32.00	(2) 1/2" Coax	Yes	0.50	1.200	0.63	0.03	0.03	16.330	0.373	0.000	0.90	0.13
32.00	(6) 1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	16.330	0.373	0.000	0.00	2.21
32.00	(8) 1 5/8" Coax	Yes	0.50	0.947	5.94	0.25	0.23	16.330	0.373	0.000	6.73	2.95
32.00	(12) 1 5/8" Coax	Yes	0.50	1.200	1.98	0.08	0.10	16.330	0.373	0.000	2.84	4.42
32.00	(4) #20 Dywidag bars	Yes	0.50	0.000	0.00	0.00	0.00	16.330	0.373	0.000	0.00	30.04
32.00	(6) 1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	16.330	0.373	0.000	0.00	2.21
32.00	(4) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	16.330	0.373	0.000	0.00	0.27
32.00	(2) 2" Cond.	Yes	0.50	0.000	0.00	0.00	0.00	16.330	0.373	0.000	0.00	3.28
32.00	(1) RG6	Yes	0.50	0.000	0.00	0.00	0.00	16.330	0.373	0.000	0.00	0.01
34.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	16.615	0.375	0.000	23.16	11.81
34.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.615	0.375	0.000	0.00	0.13
34.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	16.615	0.375	0.000	0.00	2.12
34.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	16.615	0.375	0.000	3.68	0.54
34.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.615	0.375	0.000	0.00	8.85
34.00	(8) 1 5/8" Coax	Yes	2.00	0.939	5.94	0.99	0.93	16.615	0.375	0.000	27.17	11.81
34.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	16.615	0.375	0.000	11.58	17.71
34.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	16.615	0.375	0.000	0.00	120.24
34.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.615	0.375	0.000	0.00	8.85
34.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	16.615	0.375	0.000	0.00	1.08
34.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	16.615	0.375	0.000	0.00	13.14
34.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	16.615	0.375	0.000	0.00	0.05
35.67	(8) 1 5/8" Coax	Yes	1.67	1.200	3.96	0.55	0.66	16.844	0.379	0.000	19.57	9.84
35.67	(1) 10 mm Cable	Yes	1.67	0.000	0.00	0.00	0.00	16.844	0.379	0.000	0.00	0.11
35.67	(2) 19.7 mm Cable	Yes	1.67	0.000	0.00	0.00	0.00	16.844	0.379	0.000	0.00	1.77
35.67	(2) 1/2" Coax	Yes	1.67	1.200	0.63	0.09	0.11	16.844	0.379	0.000	3.11	0.45
35.67	(6) 1 5/8" Coax	Yes	1.67	0.000	0.00	0.00	0.00	16.844	0.379	0.000	0.00	7.38
35.67	(8) 1 5/8" Coax	Yes	1.67	0.932	5.94	0.83	0.77	16.844	0.379	0.000	22.80	9.84



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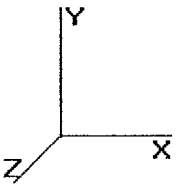
Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

35.67	(12) 1 5/8" Coax	Yes	1.67	1.200	1.98	0.28	0.33	16.844	0.379	0.000	9.78	14.76
35.67	(4) #20 Dywidag bars	Yes	1.67	0.000	0.00	0.00	0.00	16.844	0.379	0.000	0.00	100.22
35.67	(6) 1 5/8" Coax	Yes	1.67	0.000	0.00	0.00	0.00	16.844	0.379	0.000	0.00	7.38
35.67	(4) 1/2" Coax	Yes	1.67	0.000	0.00	0.00	0.00	16.844	0.379	0.000	0.00	0.90
35.67	(2) 2" Cond.	Yes	1.67	0.000	0.00	0.00	0.00	16.844	0.379	0.000	0.00	10.95
35.67	(1) RG6	Yes	1.67	0.000	0.00	0.00	0.00	16.844	0.379	0.000	0.00	0.04
36.00	(8) 1 5/8" Coax	Yes	0.33	1.200	3.96	0.11	0.13	16.889	0.373	0.000	3.92	1.97
36.00	(1) 10 mm Cable	Yes	0.33	0.000	0.00	0.00	0.00	16.889	0.373	0.000	0.00	0.02
36.00	(2) 19.7 mm Cable	Yes	0.33	0.000	0.00	0.00	0.00	16.889	0.373	0.000	0.00	0.35
36.00	(2) 1/2" Coax	Yes	0.33	1.200	0.63	0.02	0.02	16.889	0.373	0.000	0.62	0.09
36.00	(6) 1 5/8" Coax	Yes	0.33	0.000	0.00	0.00	0.00	16.889	0.373	0.000	0.00	1.47
36.00	(8) 1 5/8" Coax	Yes	0.33	0.931	5.94	0.16	0.15	16.889	0.373	0.000	4.56	1.97
36.00	(12) 1 5/8" Coax	Yes	0.33	1.200	1.98	0.05	0.07	16.889	0.373	0.000	1.96	2.95
36.00	(4) #20 Dywidag bars	Yes	0.33	0.000	0.00	0.00	0.00	16.889	0.373	0.000	0.00	20.02
36.00	(6) 1 5/8" Coax	Yes	0.33	0.000	0.00	0.00	0.00	16.889	0.373	0.000	0.00	1.47
36.00	(4) 1/2" Coax	Yes	0.33	0.000	0.00	0.00	0.00	16.889	0.373	0.000	0.00	0.18
36.00	(2) 2" Cond.	Yes	0.33	0.000	0.00	0.00	0.00	16.889	0.373	0.000	0.00	2.19
36.00	(1) RG6	Yes	0.33	0.000	0.00	0.00	0.00	16.889	0.373	0.000	0.00	0.01
38.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	17.152	0.375	0.000	23.91	11.81
38.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	17.152	0.375	0.000	0.00	0.13
38.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	17.152	0.375	0.000	0.00	2.12
38.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	17.152	0.375	0.000	3.80	0.54
38.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.152	0.375	0.000	0.00	8.85
38.00	(8) 1 5/8" Coax	Yes	2.00	0.924	5.94	0.99	0.91	17.152	0.375	0.000	27.61	11.81
38.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	17.152	0.375	0.000	11.95	17.71
38.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	17.152	0.375	0.000	0.00	120.24
38.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.152	0.375	0.000	0.00	8.85
38.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.152	0.375	0.000	0.00	1.08
38.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	17.152	0.375	0.000	0.00	13.14
38.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	17.152	0.375	0.000	0.00	0.05
40.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	17.405	0.379	0.000	24.26	11.81
40.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	17.405	0.379	0.000	0.00	0.13
40.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	17.405	0.379	0.000	0.00	2.12
40.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	17.405	0.379	0.000	3.86	0.54
40.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.405	0.379	0.000	0.00	8.85
40.00	(8) 1 5/8" Coax	Yes	2.00	0.917	5.94	0.99	0.91	17.405	0.379	0.000	27.81	11.81
40.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	17.405	0.379	0.000	12.13	17.71
40.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	17.405	0.379	0.000	0.00	120.24
40.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.405	0.379	0.000	0.00	8.85
40.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.405	0.379	0.000	0.00	1.08
40.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	17.405	0.379	0.000	0.00	13.14
40.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	17.405	0.379	0.000	0.00	0.05
42.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	17.649	0.383	0.000	24.60	11.81
42.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	17.649	0.383	0.000	0.00	0.13
42.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	17.649	0.383	0.000	0.00	2.12
42.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	17.649	0.383	0.000	3.91	0.54
42.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.649	0.383	0.000	0.00	8.85
42.00	(8) 1 5/8" Coax	Yes	2.00	0.911	5.94	0.99	0.90	17.649	0.383	0.000	28.00	11.81
42.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	17.649	0.383	0.000	12.30	17.71
42.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	17.649	0.383	0.000	0.00	120.24
42.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.649	0.383	0.000	0.00	8.85
42.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.649	0.383	0.000	0.00	1.08
42.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	17.649	0.383	0.000	0.00	13.14
42.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	17.649	0.383	0.000	0.00	0.05
44.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	17.885	0.386	0.000	24.93	11.81
44.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	17.885	0.386	0.000	0.00	0.13
44.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	17.885	0.386	0.000	0.00	2.12



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Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

44.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	17.885	0.386	0.000	3.97	0.54
44.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.885	0.386	0.000	0.00	8.85
44.00	(8) 1 5/8" Coax	Yes	2.00	0.905	5.94	0.99	0.90	17.885	0.386	0.000	28.19	11.81
44.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	17.885	0.386	0.000	12.47	17.71
44.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	17.885	0.386	0.000	0.00	120.24
44.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.885	0.386	0.000	0.00	8.85
44.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	17.885	0.386	0.000	0.00	1.08
44.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	17.885	0.386	0.000	0.00	13.14
44.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	17.885	0.386	0.000	0.00	0.05
46.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	18.114	0.390	0.000	25.25	11.81
46.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	18.114	0.390	0.000	0.00	0.13
46.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	18.114	0.390	0.000	0.00	2.12
46.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	18.114	0.390	0.000	4.02	0.54
46.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.114	0.390	0.000	0.00	8.85
46.00	(8) 1 5/8" Coax	Yes	2.00	0.899	5.94	0.99	0.89	18.114	0.390	0.000	28.37	11.81
46.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	18.114	0.390	0.000	12.62	17.71
46.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	18.114	0.390	0.000	0.00	120.24
46.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.114	0.390	0.000	0.00	8.85
46.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.114	0.390	0.000	0.00	1.08
46.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	18.114	0.390	0.000	0.00	13.14
46.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	18.114	0.390	0.000	0.00	0.05
48.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	18.335	0.394	0.000	25.56	11.81
48.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	18.335	0.394	0.000	0.00	0.13
48.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	18.335	0.394	0.000	0.00	2.12
48.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	18.335	0.394	0.000	4.07	0.54
48.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.335	0.394	0.000	0.00	8.85
48.00	(8) 1 5/8" Coax	Yes	2.00	0.893	5.94	0.99	0.88	18.335	0.394	0.000	28.54	11.81
48.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	18.335	0.394	0.000	12.78	17.71
48.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	18.335	0.394	0.000	0.00	120.24
48.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.335	0.394	0.000	0.00	8.85
48.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.335	0.394	0.000	0.00	1.08
48.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	18.335	0.394	0.000	0.00	13.14
48.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	18.335	0.394	0.000	0.00	0.05
50.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	18.551	0.398	0.000	25.86	11.81
50.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	18.551	0.398	0.000	0.00	0.13
50.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	18.551	0.398	0.000	0.00	2.12
50.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	18.551	0.398	0.000	4.11	0.54
50.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.551	0.398	0.000	0.00	8.85
50.00	(8) 1 5/8" Coax	Yes	2.00	0.888	5.94	0.99	0.88	18.551	0.398	0.000	28.71	11.81
50.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	18.551	0.398	0.000	12.93	17.71
50.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	18.551	0.398	0.000	0.00	120.24
50.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.551	0.398	0.000	0.00	8.85
50.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.551	0.398	0.000	0.00	1.08
50.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	18.551	0.398	0.000	0.00	13.14
50.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	18.551	0.398	0.000	0.00	0.05
52.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	18.760	0.403	0.000	26.15	11.81
52.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	18.760	0.403	0.000	0.00	0.13
52.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	18.760	0.403	0.000	0.00	2.12
52.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	18.760	0.403	0.000	4.16	0.54
52.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.760	0.403	0.000	0.00	8.85
52.00	(8) 1 5/8" Coax	Yes	2.00	0.883	5.94	0.99	0.87	18.760	0.403	0.000	28.87	11.81
52.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	18.760	0.403	0.000	13.07	17.71
52.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	18.760	0.403	0.000	0.00	120.24
52.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.760	0.403	0.000	0.00	8.85
52.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.760	0.403	0.000	0.00	1.08
52.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	18.760	0.403	0.000	0.00	13.14
52.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	18.760	0.403	0.000	0.00	0.05

Pole :	302489			Code: ANSI/TIA-222 Rev G						3/27/2012 1:57:37 PM	
Location :	Enfd - Enfield, CT			Struct Class : II						Page: 36	
Height :	150.0 (ft)			Exposure Category : B							
Base Dia :	37.38 (in)			Topographic Category : 1							
Top Dia :	15.00 (in)			Base Elev : 0.000 (ft)							
Shape :	12 Sides										
Taper :	0.156700 (in/ft)										

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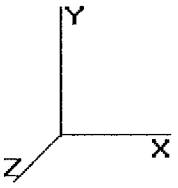

Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

54.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	18.963	0.407	0.000	26.43	11.81
54.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	18.963	0.407	0.000	0.00	0.13
54.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	18.963	0.407	0.000	0.00	2.12
54.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	18.963	0.407	0.000	4.21	0.54
54.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.963	0.407	0.000	0.00	8.85
54.00	(8) 1 5/8" Coax	Yes	2.00	0.879	5.94	0.99	0.87	18.963	0.407	0.000	29.03	11.81
54.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	18.963	0.407	0.000	13.22	17.71
54.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	18.963	0.407	0.000	0.00	120.24
54.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.963	0.407	0.000	0.00	8.85
54.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	18.963	0.407	0.000	0.00	1.08
54.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	18.963	0.407	0.000	0.00	13.14
54.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	18.963	0.407	0.000	0.00	0.05
56.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	19.161	0.411	0.000	26.71	11.81
56.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	19.161	0.411	0.000	0.00	0.13
56.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	19.161	0.411	0.000	0.00	2.12
56.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	19.161	0.411	0.000	4.25	0.54
56.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.161	0.411	0.000	0.00	8.85
56.00	(8) 1 5/8" Coax	Yes	2.00	0.874	5.94	0.99	0.87	19.161	0.411	0.000	29.18	11.81
56.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	19.161	0.411	0.000	13.35	17.71
56.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	19.161	0.411	0.000	0.00	120.24
56.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.161	0.411	0.000	0.00	8.85
56.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.161	0.411	0.000	0.00	1.08
56.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	19.161	0.411	0.000	0.00	13.14
56.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	19.161	0.411	0.000	0.00	0.05
58.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	19.354	0.416	0.000	26.98	11.81
58.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	19.354	0.416	0.000	0.00	0.13
58.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	19.354	0.416	0.000	0.00	2.12
58.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	19.354	0.416	0.000	4.29	0.54
58.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.354	0.416	0.000	0.00	8.85
58.00	(8) 1 5/8" Coax	Yes	2.00	0.870	5.94	0.99	0.86	19.354	0.416	0.000	29.33	11.81
58.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	19.354	0.416	0.000	13.49	17.71
58.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	19.354	0.416	0.000	0.00	120.24
58.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.354	0.416	0.000	0.00	8.85
58.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.354	0.416	0.000	0.00	1.08
58.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	19.354	0.416	0.000	0.00	13.14
60.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	19.543	0.420	0.000	27.24	11.81
60.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	19.543	0.420	0.000	0.00	0.13
60.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	19.543	0.420	0.000	0.00	2.12
60.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	19.543	0.420	0.000	4.33	0.54
60.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.543	0.420	0.000	0.00	8.85
60.00	(8) 1 5/8" Coax	Yes	2.00	0.865	5.94	0.99	0.86	19.543	0.420	0.000	29.47	11.81
60.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	19.543	0.420	0.000	13.62	17.71
60.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	19.543	0.420	0.000	0.00	120.24
60.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.543	0.420	0.000	0.00	8.85
60.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.543	0.420	0.000	0.00	1.08
60.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	19.543	0.420	0.000	0.00	13.14
62.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	19.726	0.425	0.000	27.50	11.81
62.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	19.726	0.425	0.000	0.00	0.13
62.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	19.726	0.425	0.000	0.00	2.12
62.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	19.726	0.425	0.000	4.37	0.54
62.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.726	0.425	0.000	0.00	8.85
62.00	(8) 1 5/8" Coax	Yes	2.00	0.861	5.94	0.99	0.85	19.726	0.425	0.000	29.61	11.81
62.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	19.726	0.425	0.000	13.75	17.71
62.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	19.726	0.425	0.000	0.00	120.24
62.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.726	0.425	0.000	0.00	8.85
62.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.726	0.425	0.000	0.00	1.08
62.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	19.726	0.425	0.000	0.00	13.14

Pole :	302489				Code: ANSI/TIA-222 Rev G						3/27/2012 1:57:37 PM	
Location :	Enfd - Enfield, CT				Struct Class : II						Page: 37	
Height :	150.0 (ft)				Exposure Category : B							
Base Dia :	37.38 (in)				Topographic Category : 1							
Top Dia :	15.00 (in)				Base Elev : 0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156700 (in/ft)											

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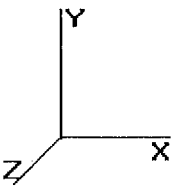

Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

64.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	19.906	0.430	0.000	27.75	11.81
64.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	19.906	0.430	0.000	0.00	0.13
64.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	19.906	0.430	0.000	0.00	2.12
64.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	19.906	0.430	0.000	4.41	0.54
64.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.906	0.430	0.000	0.00	8.85
64.00	(8) 1 5/8" Coax	Yes	2.00	0.857	5.94	0.99	0.85	19.906	0.430	0.000	29.74	11.81
64.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	19.906	0.430	0.000	13.87	17.71
64.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	19.906	0.430	0.000	0.00	120.24
64.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.906	0.430	0.000	0.00	8.85
64.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	19.906	0.430	0.000	0.00	1.08
64.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	19.906	0.430	0.000	0.00	13.14
66.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	20.082	0.434	0.000	27.99	11.81
66.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	20.082	0.434	0.000	0.00	0.13
66.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	20.082	0.434	0.000	0.00	2.12
66.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	20.082	0.434	0.000	4.45	0.54
66.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.082	0.434	0.000	0.00	8.85
66.00	(8) 1 5/8" Coax	Yes	2.00	0.854	5.94	0.99	0.85	20.082	0.434	0.000	29.87	11.81
66.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	20.082	0.434	0.000	14.00	17.71
66.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	20.082	0.434	0.000	0.00	120.24
66.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.082	0.434	0.000	0.00	8.85
66.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.082	0.434	0.000	0.00	1.08
66.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	20.082	0.434	0.000	0.00	13.14
68.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	20.254	0.439	0.000	28.23	11.81
68.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	20.254	0.439	0.000	0.00	0.13
68.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	20.254	0.439	0.000	0.00	2.12
68.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	20.254	0.439	0.000	4.49	0.54
68.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.254	0.439	0.000	0.00	8.85
68.00	(8) 1 5/8" Coax	Yes	2.00	0.850	5.94	0.99	0.84	20.254	0.439	0.000	30.00	11.81
68.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	20.254	0.439	0.000	14.12	17.71
68.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	20.254	0.439	0.000	0.00	120.24
68.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.254	0.439	0.000	0.00	8.85
68.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.254	0.439	0.000	0.00	1.08
68.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	20.254	0.439	0.000	0.00	13.14
70.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	20.422	0.444	0.000	28.47	11.81
70.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	20.422	0.444	0.000	0.00	0.13
70.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	20.422	0.444	0.000	0.00	2.12
70.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	20.422	0.444	0.000	4.53	0.54
70.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.422	0.444	0.000	0.00	8.85
70.00	(8) 1 5/8" Coax	Yes	2.00	0.847	5.94	0.99	0.84	20.422	0.444	0.000	30.12	11.81
70.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	20.422	0.444	0.000	14.23	17.71
70.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	20.422	0.444	0.000	0.00	120.24
70.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.422	0.444	0.000	0.00	8.85
70.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.422	0.444	0.000	0.00	1.08
70.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	20.422	0.444	0.000	0.00	13.14
70.00	(8) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	20.422	0.447	0.000	0.00	0.00
70.00	(1) 10 mm Cable	Yes	0.00	0.000	0.00	0.00	0.00	20.422	0.447	0.000	0.00	0.00
70.00	(2) 19.7 mm Cable	Yes	0.00	0.000	0.00	0.00	0.00	20.422	0.447	0.000	0.00	0.00
70.00	(2) 1/2" Coax	Yes	0.00	1.200	0.63	0.00	0.00	20.422	0.447	0.000	0.00	0.00
70.00	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	20.422	0.447	0.000	0.00	0.00
70.00	(8) 1 5/8" Coax	Yes	0.00	0.847	5.94	0.00	0.00	20.422	0.447	0.000	0.01	0.00
70.00	(12) 1 5/8" Coax	Yes	0.00	1.200	1.98	0.00	0.00	20.422	0.447	0.000	0.00	0.00
70.00	(4) #20 Dywidag bars	Yes	0.00	0.000	0.00	0.00	0.00	20.422	0.447	0.000	0.00	0.02
70.00	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	20.422	0.447	0.000	0.00	0.00
70.00	(4) 1/2" Coax	Yes	0.00	0.000	0.00	0.00	0.00	20.422	0.447	0.000	0.00	0.00
70.00	(2) 2" Cond.	Yes	0.00	0.000	0.00	0.00	0.00	20.422	0.447	0.000	0.00	0.00
72.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	20.587	0.450	0.000	28.69	11.80
72.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	20.587	0.450	0.000	0.00	0.13

Pole :	302489			Code: ANSI/TIA-222 Rev G							3/27/2012 1:57:38 PM	
Location :	Enfd - Enfield, CT			Struct Class : II							Page: 38	
Height :	150.0 (ft)			Exposure Category : B								
Base Dia :	37.38 (in)			Topographic Category : 1								
Top Dia :	15.00 (in)			Base Elev : 0.000 (ft)								
Shape :	12 Sides											
Taper :	0.156700 (in/ft)											

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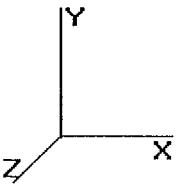

Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

72.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	20.587	0.450	0.000	0.00	2.12
72.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	20.587	0.450	0.000	4.56	0.54
72.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.587	0.450	0.000	0.00	8.85
72.00	(8) 1 5/8" Coax	Yes	2.00	0.843	5.94	0.99	0.83	20.587	0.450	0.000	30.24	11.80
72.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	20.587	0.450	0.000	14.35	17.71
72.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	20.587	0.450	0.000	0.00	120.22
72.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.587	0.450	0.000	0.00	8.85
72.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.587	0.450	0.000	0.00	1.08
72.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	20.587	0.450	0.000	0.00	13.14
73.50	(8) 1 5/8" Coax	Yes	1.50	1.200	3.96	0.50	0.59	20.709	0.454	0.000	21.66	8.86
73.50	(1) 10 mm Cable	Yes	1.50	0.000	0.00	0.00	0.00	20.709	0.454	0.000	0.00	0.09
73.50	(2) 19.7 mm Cable	Yes	1.50	0.000	0.00	0.00	0.00	20.709	0.454	0.000	0.00	1.59
73.50	(2) 1/2" Coax	Yes	1.50	1.200	0.63	0.08	0.09	20.709	0.454	0.000	3.45	0.41
73.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	20.709	0.454	0.000	0.00	6.64
73.50	(8) 1 5/8" Coax	Yes	1.50	0.841	5.94	0.74	0.62	20.709	0.454	0.000	22.76	8.86
73.50	(12) 1 5/8" Coax	Yes	1.50	1.200	1.98	0.25	0.30	20.709	0.454	0.000	10.83	13.29
73.50	(4) #20 Dywidag bars	Yes	1.50	0.000	0.00	0.00	0.00	20.709	0.454	0.000	0.00	90.20
73.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	20.709	0.454	0.000	0.00	6.64
73.50	(4) 1/2" Coax	Yes	1.50	0.000	0.00	0.00	0.00	20.709	0.454	0.000	0.00	0.81
73.50	(2) 2" Cond.	Yes	1.50	0.000	0.00	0.00	0.00	20.709	0.454	0.000	0.00	9.86
74.00	(8) 1 5/8" Coax	Yes	0.50	1.200	3.96	0.16	0.20	20.749	0.448	0.000	7.23	2.95
74.00	(1) 10 mm Cable	Yes	0.50	0.000	0.00	0.00	0.00	20.749	0.448	0.000	0.00	0.03
74.00	(2) 19.7 mm Cable	Yes	0.50	0.000	0.00	0.00	0.00	20.749	0.448	0.000	0.00	0.53
74.00	(2) 1/2" Coax	Yes	0.50	1.200	0.63	0.03	0.03	20.749	0.448	0.000	1.15	0.13
74.00	(6) 1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	20.749	0.448	0.000	0.00	2.21
74.00	(8) 1 5/8" Coax	Yes	0.50	0.840	5.94	0.25	0.21	20.749	0.448	0.000	7.59	2.95
74.00	(12) 1 5/8" Coax	Yes	0.50	1.200	1.98	0.08	0.10	20.749	0.448	0.000	3.61	4.42
74.00	(4) #20 Dywidag bars	Yes	0.50	0.000	0.00	0.00	0.00	20.749	0.448	0.000	0.00	30.04
74.00	(6) 1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	20.749	0.448	0.000	0.00	2.21
74.00	(4) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	20.749	0.448	0.000	0.00	0.27
74.00	(2) 2" Cond.	Yes	0.50	0.000	0.00	0.00	0.00	20.749	0.448	0.000	0.00	3.28
76.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	20.908	0.452	0.000	29.14	11.81
76.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	20.908	0.452	0.000	0.00	0.13
76.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	20.908	0.452	0.000	0.00	2.12
76.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	20.908	0.452	0.000	4.64	0.54
76.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.908	0.452	0.000	0.00	8.85
76.00	(8) 1 5/8" Coax	Yes	2.00	0.837	5.94	0.99	0.83	20.908	0.452	0.000	30.48	11.81
76.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	20.908	0.452	0.000	14.57	17.71
76.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	20.908	0.452	0.000	0.00	120.24
76.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.908	0.452	0.000	0.00	8.85
76.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	20.908	0.452	0.000	0.00	1.08
76.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	20.908	0.452	0.000	0.00	13.14
78.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	21.064	0.457	0.000	29.36	11.81
78.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.064	0.457	0.000	0.00	0.13
78.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.064	0.457	0.000	0.00	2.12
78.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	21.064	0.457	0.000	4.67	0.54
78.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.064	0.457	0.000	0.00	8.85
78.00	(8) 1 5/8" Coax	Yes	2.00	0.834	5.94	0.99	0.83	21.064	0.457	0.000	30.59	11.81
78.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	21.064	0.457	0.000	14.68	17.71
78.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	21.064	0.457	0.000	0.00	120.24
78.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.064	0.457	0.000	0.00	8.85
78.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.064	0.457	0.000	0.00	1.08
78.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	21.064	0.457	0.000	0.00	13.14
80.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	21.217	0.463	0.000	29.57	11.81
80.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.217	0.463	0.000	0.00	0.13
80.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.217	0.463	0.000	0.00	2.12
80.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	21.217	0.463	0.000	4.71	0.54

Pole :	302489				Code: ANSI/TIA-222 Rev G						3/27/2012 1:57:38 PM	
Location :	Enfd - Enfield, CT				Struct Class : II						Page: 39	
Height :	150.0 (ft)				Exposure Category : B							
Base Dia :	37.38 (in)				Topographic Category : 1							
Top Dia :	15.00 (in)				Base Elev : 0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156700 (in/ft)											

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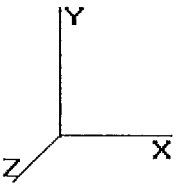

Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

80.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.217	0.463	0.000	0.00	8.85
80.00	(8) 1 5/8" Coax	Yes	2.00	0.831	5.94	0.99	0.82	21.217	0.463	0.000	30.70	11.81
80.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	21.217	0.463	0.000	14.79	17.71
80.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	21.217	0.463	0.000	0.00	120.24
80.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.217	0.463	0.000	0.00	8.85
80.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.217	0.463	0.000	0.00	1.08
80.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	21.217	0.463	0.000	0.00	13.14
82.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	21.367	0.468	0.000	29.78	11.81
82.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.367	0.468	0.000	0.00	0.13
82.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.367	0.468	0.000	0.00	2.12
82.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	21.367	0.468	0.000	4.74	0.54
82.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.367	0.468	0.000	0.00	8.85
82.00	(8) 1 5/8" Coax	Yes	2.00	0.828	5.94	0.99	0.82	21.367	0.468	0.000	30.81	11.81
82.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	21.367	0.468	0.000	14.89	17.71
82.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	21.367	0.468	0.000	0.00	120.24
82.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.367	0.468	0.000	0.00	8.85
82.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.367	0.468	0.000	0.00	1.08
82.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	21.367	0.468	0.000	0.00	13.14
84.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	21.514	0.474	0.000	29.99	11.81
84.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.514	0.474	0.000	0.00	0.13
84.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.514	0.474	0.000	0.00	2.12
84.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	21.514	0.474	0.000	4.77	0.54
84.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.514	0.474	0.000	0.00	8.85
84.00	(8) 1 5/8" Coax	Yes	2.00	0.825	5.94	0.99	0.82	21.514	0.474	0.000	30.92	11.81
84.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	21.514	0.474	0.000	14.99	17.71
84.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	21.514	0.474	0.000	0.00	120.24
84.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.514	0.474	0.000	0.00	8.85
84.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.514	0.474	0.000	0.00	1.08
84.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	21.514	0.474	0.000	0.00	13.14
86.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	21.660	0.480	0.000	30.19	11.81
86.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.660	0.480	0.000	0.00	0.13
86.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.660	0.480	0.000	0.00	2.12
86.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	21.660	0.480	0.000	4.80	0.54
86.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.660	0.480	0.000	0.00	8.85
86.00	(8) 1 5/8" Coax	Yes	2.00	0.822	5.94	0.99	0.81	21.660	0.480	0.000	31.02	11.81
86.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	21.660	0.480	0.000	15.10	17.71
86.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	21.660	0.480	0.000	0.00	120.24
86.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.660	0.480	0.000	0.00	8.85
86.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.660	0.480	0.000	0.00	1.08
86.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	21.660	0.480	0.000	0.00	13.14
88.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	21.802	0.486	0.000	30.39	11.81
88.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.802	0.486	0.000	0.00	0.13
88.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.802	0.486	0.000	0.00	2.12
88.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	21.802	0.486	0.000	4.83	0.54
88.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.802	0.486	0.000	0.00	8.85
88.00	(8) 1 5/8" Coax	Yes	2.00	0.819	5.94	0.99	0.81	21.802	0.486	0.000	31.12	11.81
88.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	21.802	0.486	0.000	15.20	17.71
88.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	21.802	0.486	0.000	0.00	120.24
88.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.802	0.486	0.000	0.00	8.85
88.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.802	0.486	0.000	0.00	1.08
88.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	21.802	0.486	0.000	0.00	13.14
90.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	21.943	0.492	0.000	30.59	11.81
90.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.943	0.492	0.000	0.00	0.13
90.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	21.943	0.492	0.000	0.00	2.12
90.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	21.943	0.492	0.000	4.87	0.54
90.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.943	0.492	0.000	0.00	8.85
90.00	(8) 1 5/8" Coax	Yes	2.00	0.817	5.94	0.99	0.81	21.943	0.492	0.000	31.22	11.81

Pole :	302489				Code: ANSI/TIA-222 Rev G						3/27/2012 1:57:38 PM	
Location :	Enfd - Enfield, CT				Struct Class : II						Page: 40	
Height :	150.0 (ft)				Exposure Category : B							
Base Dia :	37.38 (in)				Topographic Category : 1							
Top Dia :	15.00 (in)				Base Elev : 0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156700 (in/ft)											

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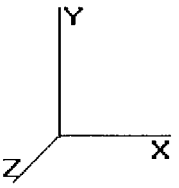

Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

90.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	21.943	0.492	0.000	15.29	17.71
90.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	21.943	0.492	0.000	0.00	120.24
90.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.943	0.492	0.000	0.00	8.85
90.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	21.943	0.492	0.000	0.00	1.08
90.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	21.943	0.492	0.000	0.00	13.14
92.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	22.081	0.498	0.000	30.78	11.81
92.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.081	0.498	0.000	0.00	0.13
92.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.081	0.498	0.000	0.00	2.12
92.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	22.081	0.498	0.000	4.90	0.54
92.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.081	0.498	0.000	0.00	8.85
92.00	(8) 1 5/8" Coax	Yes	2.00	0.814	5.94	0.99	0.81	22.081	0.498	0.000	31.32	11.81
92.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	22.081	0.498	0.000	15.39	17.71
92.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	22.081	0.498	0.000	0.00	120.24
92.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.081	0.498	0.000	0.00	8.85
92.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.081	0.498	0.000	0.00	1.08
92.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	22.081	0.498	0.000	0.00	13.14
94.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	22.217	0.505	0.000	30.97	11.81
94.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.217	0.505	0.000	0.00	0.13
94.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.217	0.505	0.000	0.00	2.12
94.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	22.217	0.505	0.000	4.93	0.54
94.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.217	0.505	0.000	0.00	8.85
94.00	(8) 1 5/8" Coax	Yes	2.00	0.812	5.94	0.99	0.80	22.217	0.505	0.000	31.42	11.81
94.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	22.217	0.505	0.000	15.48	17.71
94.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	22.217	0.505	0.000	0.00	120.24
94.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.217	0.505	0.000	0.00	8.85
94.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.217	0.505	0.000	0.00	1.08
94.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	22.217	0.505	0.000	0.00	13.14
96.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	22.351	0.512	0.000	31.16	11.81
96.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.351	0.512	0.000	0.00	0.13
96.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.351	0.512	0.000	0.00	2.12
96.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	22.351	0.512	0.000	4.96	0.54
96.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.351	0.512	0.000	0.00	8.85
96.00	(8) 1 5/8" Coax	Yes	2.00	0.809	5.94	0.99	0.80	22.351	0.512	0.000	31.51	11.81
96.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	22.351	0.512	0.000	15.58	17.71
96.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	22.351	0.512	0.000	0.00	120.24
96.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.351	0.512	0.000	0.00	8.85
96.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.351	0.512	0.000	0.00	1.08
96.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	22.351	0.512	0.000	0.00	13.14
98.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	22.483	0.519	0.000	31.34	11.81
98.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.483	0.519	0.000	0.00	0.13
98.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.483	0.519	0.000	0.00	2.12
98.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	22.483	0.519	0.000	4.99	0.54
98.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.483	0.519	0.000	0.00	8.85
98.00	(8) 1 5/8" Coax	Yes	2.00	0.807	5.94	0.99	0.80	22.483	0.519	0.000	31.61	11.81
98.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	22.483	0.519	0.000	15.67	17.71
98.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	22.483	0.519	0.000	0.00	120.24
98.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.483	0.519	0.000	0.00	8.85
98.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.483	0.519	0.000	0.00	1.08
98.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	22.483	0.519	0.000	0.00	13.14
100.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	22.613	0.526	0.000	31.52	11.81
100.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.613	0.526	0.000	0.00	0.13
100.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.613	0.526	0.000	0.00	2.12
100.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	22.613	0.526	0.000	5.01	0.54
100.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.613	0.526	0.000	0.00	8.85
100.0	(8) 1 5/8" Coax	Yes	2.00	0.804	5.94	0.99	0.80	22.613	0.526	0.000	31.70	11.81
100.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	22.613	0.526	0.000	15.76	17.71
100.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	22.613	0.526	0.000	0.00	120.24

Pole :	302489	Code:	ANSI/TIA-222 Rev G		3/27/2012 1:57:38 PM
Location :	Enfd - Enfield, CT	Struct Class :	II		Page: 41
Height :	150.0 (ft)	Exposure Category :	B		
Base Dia :	37.38 (in)	Topographic Category :	1		
Top Dia :	15.00 (in)	Base Elev :	0.000 (ft)		
Shape :	12 Sides				
Taper :	0.156700 (in/ft)				

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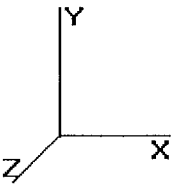


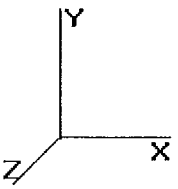
Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

100.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.613	0.526	0.000	0.00	8.85
100.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.613	0.526	0.000	0.00	1.08
100.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	22.613	0.526	0.000	0.00	13.14
102.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	22.742	0.533	0.000	31.70	11.81
102.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.742	0.533	0.000	0.00	0.13
102.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.742	0.533	0.000	0.00	2.12
102.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	22.742	0.533	0.000	5.04	0.54
102.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.742	0.533	0.000	0.00	8.85
102.0	(8) 1 5/8" Coax	Yes	2.00	0.802	5.94	0.99	0.79	22.742	0.533	0.000	31.79	11.81
102.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	22.742	0.533	0.000	15.85	17.71
102.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	22.742	0.533	0.000	0.00	120.24
102.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.742	0.533	0.000	0.00	8.85
102.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.742	0.533	0.000	0.00	1.08
102.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	22.742	0.533	0.000	0.00	13.14
104.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	22.868	0.540	0.000	31.88	11.81
104.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.868	0.540	0.000	0.00	0.13
104.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.868	0.540	0.000	0.00	2.12
104.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	22.868	0.540	0.000	5.07	0.54
104.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.868	0.540	0.000	0.00	8.85
104.0	(8) 1 5/8" Coax	Yes	2.00	0.800	5.94	0.99	0.79	22.868	0.540	0.000	31.88	11.81
104.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	22.868	0.540	0.000	15.94	17.71
104.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	22.868	0.540	0.000	0.00	120.24
104.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.868	0.540	0.000	0.00	8.85
104.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.868	0.540	0.000	0.00	1.08
104.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	22.868	0.540	0.000	0.00	13.14
106.0	(8) 1 5/8" Coax	Yes	2.00	1.197	3.96	0.66	0.79	22.993	0.548	0.000	31.96	11.81
106.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.993	0.548	0.000	0.00	0.13
106.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	22.993	0.548	0.000	0.00	2.12
106.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	22.993	0.548	0.000	5.10	0.54
106.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.993	0.548	0.000	0.00	8.85
106.0	(8) 1 5/8" Coax	Yes	2.00	0.798	5.94	0.99	0.79	22.993	0.548	0.000	31.96	11.81
106.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	22.993	0.548	0.000	16.03	17.71
106.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	22.993	0.548	0.000	0.00	120.24
106.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.993	0.548	0.000	0.00	8.85
106.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.993	0.548	0.000	0.00	1.08
106.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	22.993	0.548	0.000	0.00	13.14
108.0	(8) 1 5/8" Coax	Yes	2.00	1.194	3.96	0.66	0.79	23.116	0.556	0.000	32.05	11.81
108.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.116	0.556	0.000	0.00	0.13
108.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.116	0.556	0.000	0.00	2.12
108.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	23.116	0.556	0.000	5.13	0.54
108.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.116	0.556	0.000	0.00	8.85
108.0	(8) 1 5/8" Coax	Yes	2.00	0.796	5.94	0.99	0.79	23.116	0.556	0.000	32.05	11.81
108.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	23.116	0.556	0.000	16.11	17.71
108.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	23.116	0.556	0.000	0.00	120.24
108.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.116	0.556	0.000	0.00	8.85
108.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.116	0.556	0.000	0.00	1.08
108.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	23.116	0.556	0.000	0.00	13.14
110.0	(8) 1 5/8" Coax	Yes	2.00	1.190	3.96	0.66	0.79	23.238	0.564	0.000	32.13	11.81
110.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.238	0.564	0.000	0.00	0.13
110.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.238	0.564	0.000	0.00	2.12
110.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	23.238	0.564	0.000	5.15	0.54
110.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.238	0.564	0.000	0.00	8.85
110.0	(8) 1 5/8" Coax	Yes	2.00	0.794	5.94	0.99	0.79	23.238	0.564	0.000	32.13	11.81
110.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	23.238	0.564	0.000	16.20	17.71
110.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	23.238	0.564	0.000	0.00	120.24
110.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.238	0.564	0.000	0.00	8.85
110.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.238	0.564	0.000	0.00	1.08



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Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00
Dead Load Factor : 0.90
Wind Load Factor : 1.60

110.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	23.238	0.564	0.000	0.00	13.14
110.0	(8) 1 5/8" Coax	Yes	0.00	1.190	3.96	0.00	0.00	23.238	0.568	0.000	0.01	0.00
110.0	(1) 10 mm Cable	Yes	0.00	0.000	0.00	0.00	0.00	23.238	0.568	0.000	0.00	0.00
110.0	(2) 19.7 mm Cable	Yes	0.00	0.000	0.00	0.00	0.00	23.238	0.568	0.000	0.00	0.00
110.0	(2) 1/2" Coax	Yes	0.00	1.200	0.63	0.00	0.00	23.238	0.568	0.000	0.00	0.00
110.0	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	23.238	0.568	0.000	0.00	0.00
110.0	(8) 1 5/8" Coax	Yes	0.00	0.794	5.94	0.00	0.00	23.238	0.568	0.000	0.01	0.00
110.0	(12) 1 5/8" Coax	Yes	0.00	1.200	1.98	0.00	0.00	23.238	0.568	0.000	0.00	0.00
110.0	(4) #20 Dywidag bars	Yes	0.00	0.000	0.00	0.00	0.00	23.238	0.568	0.000	0.00	0.02
110.0	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	23.238	0.568	0.000	0.00	0.00
110.0	(4) 1/2" Coax	Yes	0.00	0.000	0.00	0.00	0.00	23.238	0.568	0.000	0.00	0.00
110.0	(2) 2" Cond.	Yes	0.00	0.000	0.00	0.00	0.00	23.238	0.568	0.000	0.00	0.00
112.0	(8) 1 5/8" Coax	Yes	2.00	1.187	3.96	0.66	0.78	23.358	0.572	0.000	32.21	11.80
112.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.358	0.572	0.000	0.00	0.13
112.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.358	0.572	0.000	0.00	2.12
112.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	23.358	0.572	0.000	5.18	0.54
112.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.358	0.572	0.000	0.00	8.85
112.0	(8) 1 5/8" Coax	Yes	2.00	0.792	5.94	0.99	0.78	23.358	0.572	0.000	32.21	11.80
112.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	23.358	0.572	0.000	16.28	17.71
112.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	23.358	0.572	0.000	0.00	120.22
112.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.358	0.572	0.000	0.00	8.85
112.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.358	0.572	0.000	0.00	1.08
112.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	23.358	0.572	0.000	0.00	13.14
114.0	(8) 1 5/8" Coax	Yes	2.00	1.184	3.96	0.66	0.78	23.476	0.581	0.000	32.30	11.81
114.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.476	0.581	0.000	0.00	0.13
114.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.476	0.581	0.000	0.00	2.12
114.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	23.476	0.581	0.000	5.21	0.54
114.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.476	0.581	0.000	0.00	8.85
114.0	(8) 1 5/8" Coax	Yes	2.00	0.790	5.94	0.99	0.78	23.476	0.581	0.000	32.30	11.81
114.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	23.476	0.581	0.000	16.36	17.71
114.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	23.476	0.581	0.000	0.00	120.24
114.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.476	0.581	0.000	0.00	8.85
116.0	(8) 1 5/8" Coax	Yes	2.00	1.181	3.96	0.66	0.78	23.593	0.590	0.000	32.38	11.81
116.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.593	0.590	0.000	0.00	0.13
116.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.593	0.590	0.000	0.00	2.12
116.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	23.593	0.590	0.000	5.23	0.54
116.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.593	0.590	0.000	0.00	8.85
116.0	(8) 1 5/8" Coax	Yes	2.00	0.788	5.94	0.99	0.78	23.593	0.590	0.000	32.38	11.81
116.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	23.593	0.590	0.000	16.44	17.71
116.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	23.593	0.590	0.000	0.00	120.24
116.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.593	0.590	0.000	0.00	8.85
118.0	(8) 1 5/8" Coax	Yes	2.00	1.179	3.96	0.66	0.78	23.708	0.599	0.000	32.46	11.81
118.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.708	0.599	0.000	0.00	0.13
118.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.708	0.599	0.000	0.00	2.12
118.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	23.708	0.599	0.000	5.26	0.54
118.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.708	0.599	0.000	0.00	8.85
118.0	(8) 1 5/8" Coax	Yes	2.00	0.786	5.94	0.99	0.78	23.708	0.599	0.000	32.46	11.81
118.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	23.708	0.599	0.000	16.52	17.71
118.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	23.708	0.599	0.000	0.00	120.24
118.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.708	0.599	0.000	0.00	8.85
120.0	(8) 1 5/8" Coax	Yes	2.00	1.176	3.96	0.66	0.78	23.823	0.609	0.000	32.53	11.81
120.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.823	0.609	0.000	0.00	0.13
120.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	23.823	0.609	0.000	0.00	2.12
120.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	23.823	0.609	0.000	5.28	0.54
120.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.823	0.609	0.000	0.00	8.85
120.0	(8) 1 5/8" Coax	Yes	2.00	0.784	5.94	0.99	0.78	23.823	0.609	0.000	32.53	11.81
120.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	23.823	0.609	0.000	16.60	17.71

Pole :	302489	Code: ANSI/TIA-222 Rev G			3/27/2012 1:57:38 PM
Location :	Enfd - Enfield, CT	Struct Class : II			Page: 43
Height :	150.0 (ft)	Exposure Category : B			
Base Dia :	37.38 (in)	Topographic Category : 1			
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)			
Shape :	12 Sides				
Taper :	0.156700 (in/ft)				

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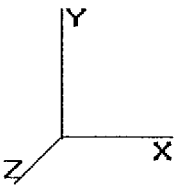

Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

120.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	23.823	0.609	0.000	0.00	120.24
120.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.823	0.609	0.000	0.00	8.85
121.0	(8) 1 5/8" Coax	Yes	1.00	1.174	3.96	0.33	0.39	23.879	0.616	0.000	16.29	5.90
121.0	(1) 10 mm Cable	Yes	1.00	0.000	0.00	0.00	0.00	23.879	0.616	0.000	0.00	0.06
121.0	(2) 19.7 mm Cable	Yes	1.00	0.000	0.00	0.00	0.00	23.879	0.616	0.000	0.00	1.06
121.0	(2) 1/2" Coax	Yes	1.00	1.200	0.63	0.05	0.06	23.879	0.616	0.000	2.65	0.27
121.0	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.879	0.616	0.000	0.00	4.43
121.0	(8) 1 5/8" Coax	Yes	1.00	0.783	5.94	0.50	0.39	23.879	0.616	0.000	16.29	5.90
121.0	(12) 1 5/8" Coax	Yes	1.00	1.200	1.98	0.17	0.20	23.879	0.616	0.000	8.32	8.85
121.0	(4) #20 Dywidag bars	Yes	1.00	0.000	0.00	0.00	0.00	23.879	0.616	0.000	0.00	60.12
121.0	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.879	0.616	0.000	0.00	4.43
122.0	(8) 1 5/8" Coax	Yes	1.00	1.173	3.96	0.33	0.39	23.935	0.621	0.000	16.31	5.90
122.0	(1) 10 mm Cable	Yes	1.00	0.000	0.00	0.00	0.00	23.935	0.621	0.000	0.00	0.06
122.0	(2) 19.7 mm Cable	Yes	1.00	0.000	0.00	0.00	0.00	23.935	0.621	0.000	0.00	1.06
122.0	(2) 1/2" Coax	Yes	1.00	1.200	0.63	0.05	0.06	23.935	0.621	0.000	2.65	0.27
122.0	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.935	0.621	0.000	0.00	4.43
122.0	(8) 1 5/8" Coax	Yes	1.00	0.782	5.94	0.50	0.39	23.935	0.621	0.000	16.31	5.90
122.0	(12) 1 5/8" Coax	Yes	1.00	1.200	1.98	0.17	0.20	23.935	0.621	0.000	8.34	8.85
122.0	(4) #20 Dywidag bars	Yes	1.00	0.000	0.00	0.00	0.00	23.935	0.621	0.000	0.00	60.12
122.0	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.935	0.621	0.000	0.00	4.43
124.0	(8) 1 5/8" Coax	Yes	2.00	1.170	3.96	0.66	0.77	24.047	0.628	0.000	32.69	11.81
124.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.047	0.628	0.000	0.00	0.13
124.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.047	0.628	0.000	0.00	2.12
124.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	24.047	0.628	0.000	5.33	0.54
124.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.047	0.628	0.000	0.00	8.85
124.0	(8) 1 5/8" Coax	Yes	2.00	0.780	5.94	0.99	0.77	24.047	0.628	0.000	32.69	11.81
124.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	24.047	0.628	0.000	16.76	17.71
124.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	24.047	0.628	0.000	0.00	120.24
126.0	(8) 1 5/8" Coax	Yes	2.00	1.168	3.96	0.66	0.77	24.157	0.639	0.000	32.76	11.81
126.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.157	0.639	0.000	0.00	0.13
126.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.157	0.639	0.000	0.00	2.12
126.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	24.157	0.639	0.000	5.36	0.54
126.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.157	0.639	0.000	0.00	8.85
126.0	(8) 1 5/8" Coax	Yes	2.00	0.778	5.94	0.99	0.77	24.157	0.639	0.000	32.76	11.81
126.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	24.157	0.639	0.000	16.84	17.71
126.0	(4) #20 Dywidag bars	Yes	1.51	0.000	0.00	0.00	0.00	24.157	0.639	0.000	0.00	90.78
128.0	(8) 1 5/8" Coax	Yes	2.00	1.165	3.96	0.66	0.77	24.266	0.650	0.000	32.84	11.81
128.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.266	0.650	0.000	0.00	0.13
128.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.266	0.650	0.000	0.00	2.12
128.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	24.266	0.650	0.000	5.38	0.54
128.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.266	0.650	0.000	0.00	8.85
128.0	(8) 1 5/8" Coax	Yes	2.00	0.777	5.94	0.99	0.77	24.266	0.650	0.000	32.84	11.81
128.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	24.266	0.650	0.000	16.91	17.71
130.0	(8) 1 5/8" Coax	Yes	2.00	1.162	3.96	0.66	0.77	24.374	0.661	0.000	32.91	11.81
130.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.374	0.661	0.000	0.00	0.13
130.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.374	0.661	0.000	0.00	2.12
130.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	24.374	0.661	0.000	5.41	0.54
130.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.374	0.661	0.000	0.00	8.85
130.0	(8) 1 5/8" Coax	Yes	2.00	0.775	5.94	0.99	0.77	24.374	0.661	0.000	32.91	11.81
130.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	24.374	0.661	0.000	16.99	17.71
132.0	(8) 1 5/8" Coax	Yes	2.00	1.160	3.96	0.66	0.77	24.480	0.566	0.000	32.98	11.81
132.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.480	0.566	0.000	0.00	0.13
132.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.480	0.566	0.000	0.00	2.12
132.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	24.480	0.566	0.000	5.43	0.54
132.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.480	0.566	0.000	0.00	8.85
132.0	(8) 1 5/8" Coax	Yes	2.00	0.773	5.94	0.99	0.77	24.480	0.566	0.000	32.98	11.81
134.0	(8) 1 5/8" Coax	Yes	2.00	1.157	3.96	0.66	0.76	24.586	0.576	0.000	33.05	11.81

Pole :	302489	Code:	ANSI/TIA-222 Rev G		3/27/2012 1:57:39 PM
Location :	Enfd - Enfield, CT	Struct Class :	II		Page: 44
Height :	150.0 (ft)	Exposure Category :	B		
Base Dia :	37.38 (in)	Topographic Category :	1		
Top Dia :	15.00 (in)	Base Elev :	0.000 (ft)		
Shape :	12 Sides				
Taper :	0.156700 (in/ft)				

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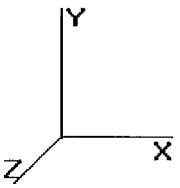

Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

134.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.586	0.576	0.000	0.00	0.13
134.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.586	0.576	0.000	0.00	2.12
134.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	24.586	0.576	0.000	5.45	0.54
134.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.586	0.576	0.000	0.00	8.85
134.0	(8) 1 5/8" Coax	Yes	2.00	0.772	5.94	0.99	0.76	24.586	0.576	0.000	33.05	11.81
136.0	(8) 1 5/8" Coax	Yes	2.00	1.155	3.96	0.66	0.76	24.690	0.586	0.000	33.12	11.81
136.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.690	0.586	0.000	0.00	0.13
136.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.690	0.586	0.000	0.00	2.12
136.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	24.690	0.586	0.000	5.48	0.54
136.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.690	0.586	0.000	0.00	8.85
136.0	(8) 1 5/8" Coax	Yes	2.00	0.770	5.94	0.99	0.76	24.690	0.586	0.000	33.12	11.81
138.0	(8) 1 5/8" Coax	Yes	2.00	1.152	3.96	0.66	0.76	24.793	0.597	0.000	33.19	11.81
138.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.793	0.597	0.000	0.00	0.13
138.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.793	0.597	0.000	0.00	2.12
138.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	24.793	0.597	0.000	5.50	0.54
138.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.793	0.597	0.000	0.00	8.85
138.0	(8) 1 5/8" Coax	Yes	2.00	0.768	5.94	0.99	0.76	24.793	0.597	0.000	33.19	11.81
140.0	(8) 1 5/8" Coax	Yes	2.00	1.150	3.96	0.66	0.76	24.895	0.608	0.000	33.26	11.81
140.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.895	0.608	0.000	0.00	0.13
140.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.895	0.608	0.000	0.00	2.12
140.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	24.895	0.608	0.000	5.52	0.54
140.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.895	0.608	0.000	0.00	8.85
140.0	(8) 1 5/8" Coax	Yes	2.00	0.767	5.94	0.99	0.76	24.895	0.608	0.000	33.26	11.81
142.0	(8) 1 5/8" Coax	Yes	2.00	1.148	3.96	0.66	0.76	24.996	0.270	0.000	33.33	11.81
142.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.996	0.270	0.000	0.00	0.13
142.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	24.996	0.270	0.000	0.00	2.12
142.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	24.996	0.270	0.000	5.54	0.54
144.0	(8) 1 5/8" Coax	Yes	2.00	1.145	3.96	0.66	0.76	25.096	0.275	0.000	33.39	11.81
144.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	25.096	0.275	0.000	0.00	0.13
144.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	25.096	0.275	0.000	0.00	2.12
144.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	25.096	0.275	0.000	5.57	0.54
146.0	(8) 1 5/8" Coax	Yes	2.00	1.143	3.96	0.66	0.75	25.196	0.242	0.000	33.46	11.81
146.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	25.196	0.242	0.000	0.00	0.13
146.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	25.196	0.242	0.000	0.00	2.12
148.0	(8) 1 5/8" Coax	Yes	2.00	1.141	3.96	0.66	0.75	25.294	0.247	0.000	33.52	11.81
148.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	25.294	0.247	0.000	0.00	0.13
148.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	25.294	0.247	0.000	0.00	2.12
150.0	(8) 1 5/8" Coax	Yes	2.00	1.139	3.96	0.66	0.75	25.391	0.252	0.000	33.59	11.81
150.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	25.391	0.252	0.000	0.00	0.13
150.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	25.391	0.252	0.000	0.00	2.12
										Totals:	5,436.06	12,574.11

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:39 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 45
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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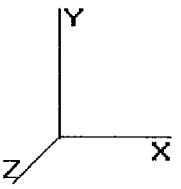

Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60
Wind Importance 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
2.00	281.00	610.33	0.00	0.00
4.00	279.17	608.01	0.00	0.00
6.00	277.34	605.69	0.00	0.00
8.00	275.51	603.37	0.00	0.00
10.00	273.68	601.05	0.00	0.00
12.00	271.85	598.74	0.00	0.00
14.00	270.03	596.42	0.00	0.00
16.00	268.20	594.10	0.00	0.00
18.00	266.37	591.78	0.00	0.00
20.00	264.54	589.47	0.00	0.00
22.00	262.71	587.15	0.00	0.00
24.00	260.88	584.83	0.00	0.00
26.00	259.05	582.51	0.00	0.00
28.00	257.22	580.19	0.00	0.00
30.00	255.59	577.88	0.00	0.00
31.50	193.07	431.98	0.00	0.00
32.00	65.27	193.95	0.00	0.00
34.00	264.40	773.68	0.00	0.00
35.67	221.78	641.61	0.00	0.00
36.00	44.25	89.16	0.00	0.00
38.00	268.58	534.37	0.00	0.00
40.00	270.35	532.44	0.00	0.00
42.00	271.93	530.51	0.00	0.00
44.00	273.34	528.58	0.00	0.00
46.00	274.58	526.65	0.00	0.00
48.00	275.68	524.72	0.00	0.00
50.00	276.62	522.78	0.00	0.00
52.00	277.44	520.85	0.00	0.00
54.00	278.12	518.92	0.00	0.00
56.00	959.56	630.39	0.00	0.00
58.00	279.14	515.01	0.00	0.00
60.00	279.48	513.07	0.00	0.00
62.00	279.72	511.14	0.00	0.00
64.00	279.86	509.21	0.00	0.00
66.00	279.90	507.28	0.00	0.00
68.00	279.86	505.35	0.00	0.00
70.00	279.73	503.42	0.00	0.00
70.00	0.05	0.08	0.00	0.00
72.00	283.22	635.14	0.00	0.00
73.50	212.13	474.26	0.00	0.00
74.00	70.48	117.27	0.00	0.00
76.00	282.67	468.42	0.00	0.00
78.00	282.25	466.87	0.00	0.00
80.00	281.77	465.33	0.00	0.00
82.00	281.21	463.78	0.00	0.00
84.00	280.59	462.24	0.00	0.00
86.00	279.91	460.69	0.00	0.00
88.00	279.16	459.15	0.00	0.00
90.00	278.35	457.60	0.00	0.00

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:39 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 46
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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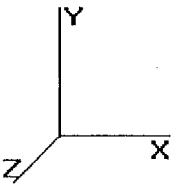

Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

92.00		277.48	456.06	0.00	0.00
94.00		276.56	454.51	0.00	0.00
96.00		275.58	452.97	0.00	0.00
98.00		274.55	451.42	0.00	0.00
100.0		273.46	449.88	0.00	0.00
102.0		272.33	448.33	0.00	0.00
104.0		271.14	446.79	0.00	0.00
106.0		269.82	445.24	0.00	0.00
108.0		268.46	443.70	0.00	0.00
110.0		267.04	442.15	0.00	0.00
110.0		0.04	0.07	0.00	0.00
112.0		1,493.90	645.70	0.00	0.00
114.0		264.09	399.26	0.00	0.00
116.0		262.55	398.10	0.00	0.00
118.0		260.97	396.94	0.00	0.00
120.0		259.35	395.78	0.00	0.00
121.0		128.92	197.46	0.00	0.00
122.0		694.11	381.65	0.00	0.00
124.0		255.99	251.01	0.00	0.00
126.0		254.25	220.39	0.00	0.00
128.0		252.48	128.45	0.00	0.00
130.0		3,282.38	1,671.96	0.00	0.00
132.0		231.77	108.42	0.00	0.00
134.0		229.81	107.26	0.00	0.00
136.0		227.83	106.11	0.00	0.00
138.0		225.81	104.95	0.00	0.00
140.0		2,153.21	1,668.71	0.00	0.00
142.0		188.35	81.97	0.00	0.00
144.0		842.20	354.95	0.00	278.56
146.0		178.38	79.11	0.00	0.00
148.0		176.12	77.95	0.00	0.00
150.0		4,490.86	2,645.84	0.00	10,828.90
	Totals:	32,087.39	39,820.52	0.00	11,107.47

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:39 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 47
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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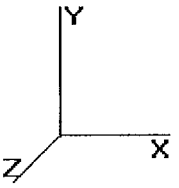

Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60
Wind Importance 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	-39.78	-32.14	0.00	-3,281.13	0.00	3,281.13	3,133.66	1,566.83	4,776.46	2,358.91	0.00	0.00	0.860
2.00	-39.09	-31.96	0.00	-3,216.86	0.00	3,216.86	3,116.86	1,558.43	4,710.21	2,326.20	0.03	-0.14	0.851
4.00	-38.40	-31.77	0.00	-3,152.95	0.00	3,152.95	3,099.89	1,549.95	4,644.15	2,293.57	0.12	-0.29	0.843
6.00	-37.72	-31.59	0.00	-3,089.40	0.00	3,089.40	3,082.76	1,541.38	4,578.29	2,261.04	0.28	-0.43	0.834
8.00	-37.04	-31.40	0.00	-3,026.23	0.00	3,026.23	3,065.46	1,532.73	4,512.63	2,228.62	0.49	-0.58	0.825
10.00	-36.36	-31.21	0.00	-2,963.44	0.00	2,963.44	3,047.99	1,524.00	4,447.17	2,196.29	0.77	-0.73	0.816
12.00	-35.69	-31.02	0.00	-2,901.01	0.00	2,901.01	3,030.36	1,515.18	4,381.94	2,164.07	1.10	-0.87	0.807
14.00	-35.02	-30.83	0.00	-2,838.97	0.00	2,838.97	3,012.56	1,506.28	4,316.92	2,131.97	1.50	-1.02	0.797
16.00	-34.35	-30.64	0.00	-2,777.31	0.00	2,777.31	2,994.60	1,497.30	4,252.13	2,099.97	1.96	-1.16	0.788
18.00	-33.69	-30.45	0.00	-2,716.03	0.00	2,716.03	2,976.47	1,488.23	4,187.58	2,068.09	2.47	-1.31	0.779
20.00	-33.03	-30.25	0.00	-2,655.14	0.00	2,655.14	2,958.17	1,479.08	4,123.27	2,036.33	3.05	-1.45	0.769
22.00	-32.37	-30.06	0.00	-2,594.64	0.00	2,594.64	2,939.70	1,469.85	4,059.20	2,004.69	3.69	-1.60	0.760
24.00	-31.72	-29.86	0.00	-2,534.53	0.00	2,534.53	2,921.07	1,460.54	3,995.39	1,973.17	4.40	-1.74	0.750
26.00	-31.07	-29.66	0.00	-2,474.82	0.00	2,474.82	2,902.28	1,451.14	3,931.84	1,941.79	5.16	-1.89	0.740
28.00	-30.42	-29.46	0.00	-2,415.50	0.00	2,415.50	2,883.31	1,441.66	3,868.56	1,910.53	5.98	-2.04	0.730
30.00	-29.79	-29.25	0.00	-2,356.58	0.00	2,356.58	2,864.18	1,432.09	3,805.55	1,879.42	6.87	-2.18	0.720
31.50	-29.33	-29.08	0.00	-2,312.70	0.00	2,312.70	2,849.72	1,424.86	3,758.46	1,856.16	7.57	-2.29	0.713
32.00	-29.09	-29.05	0.00	-2,298.17	0.00	2,298.17	2,844.89	1,422.44	3,742.82	1,848.44	7.81	-2.33	0.700
34.00	-28.26	-28.82	0.00	-2,240.07	0.00	2,240.07	2,819.42	1,409.71	3,672.56	1,813.74	8.82	-2.47	0.691
35.67	-27.60	-28.60	0.00	-2,192.04	0.00	2,192.04	2,231.07	1,115.54	2,951.42	1,457.59	9.70	-2.59	0.793
36.00	-27.47	-28.60	0.00	-2,182.51	0.00	2,182.51	2,228.86	1,114.43	2,943.66	1,453.76	9.88	-2.61	0.791
38.00	-26.87	-28.37	0.00	-2,125.32	0.00	2,125.32	2,215.49	1,107.75	2,897.11	1,430.77	11.01	-2.76	0.778
40.00	-26.28	-28.15	0.00	-2,068.58	0.00	2,068.58	2,201.95	1,100.98	2,850.70	1,407.85	12.20	-2.91	0.765
42.00	-25.69	-27.91	0.00	-2,012.29	0.00	2,012.29	2,188.25	1,094.13	2,804.43	1,385.00	13.45	-3.06	0.751
44.00	-25.11	-27.68	0.00	-1,956.46	0.00	1,956.46	2,174.38	1,087.19	2,758.30	1,362.22	14.77	-3.21	0.738
46.00	-24.52	-27.44	0.00	-1,901.11	0.00	1,901.11	2,160.35	1,080.17	2,712.33	1,339.52	16.14	-3.36	0.724
48.00	-23.95	-27.19	0.00	-1,846.23	0.00	1,846.23	2,146.14	1,073.07	2,666.52	1,316.89	17.58	-3.51	0.710
50.00	-23.37	-26.94	0.00	-1,791.85	0.00	1,791.85	2,131.78	1,065.89	2,620.87	1,294.35	19.08	-3.66	0.696
52.00	-22.80	-26.69	0.00	-1,737.97	0.00	1,737.97	2,117.24	1,058.62	2,575.40	1,271.89	20.65	-3.80	0.682
54.00	-22.24	-26.43	0.00	-1,684.59	0.00	1,684.59	2,102.54	1,051.27	2,530.10	1,249.52	22.27	-3.95	0.668
56.00	-21.61	-25.49	0.00	-1,631.72	0.00	1,631.72	2,087.67	1,043.84	2,484.99	1,227.24	23.95	-4.09	0.654
58.00	-21.06	-25.22	0.00	-1,580.75	0.00	1,580.75	2,072.64	1,036.32	2,440.07	1,205.06	25.70	-4.24	0.640
60.00	-20.51	-24.96	0.00	-1,530.30	0.00	1,530.30	2,057.44	1,028.72	2,395.35	1,182.97	27.50	-4.38	0.627
62.00	-19.96	-24.69	0.00	-1,480.39	0.00	1,480.39	2,042.07	1,021.04	2,350.84	1,160.99	29.36	-4.52	0.613
64.00	-19.41	-24.41	0.00	-1,431.02	0.00	1,431.02	2,026.54	1,013.27	2,306.53	1,139.11	31.29	-4.66	0.599
66.00	-18.87	-24.14	0.00	-1,382.19	0.00	1,382.19	2,010.84	1,005.42	2,262.45	1,117.34	33.27	-4.80	0.585
68.00	-18.33	-23.86	0.00	-1,333.91	0.00	1,333.91	1,994.98	997.49	2,218.59	1,095.68	35.30	-4.94	0.571
70.00	-17.83	-23.56	0.00	-1,286.19	0.00	1,286.19	1,978.94	989.47	2,174.96	1,074.13	37.40	-5.07	0.556
70.00	-17.80	-23.58	0.00	-1,286.18	0.00	1,286.18	1,978.94	989.47	2,174.95	1,074.12	37.40	-5.07	0.556
72.00	-17.15	-23.28	0.00	-1,239.02	0.00	1,239.02	1,958.85	979.43	2,127.34	1,050.61	39.55	-5.21	0.534
73.50	-16.67	-23.04	0.00	-1,204.10	0.00	1,204.10	1,462.64	731.32	1,612.09	796.15	41.20	-5.30	0.621
74.00	-16.52	-22.99	0.00	-1,192.59	0.00	1,192.59	1,460.13	730.06	1,604.56	792.43	41.76	-5.34	0.617
76.00	-16.03	-22.70	0.00	-1,146.62	0.00	1,146.62	1,449.95	724.98	1,574.48	777.57	44.02	-5.48	0.598
78.00	-15.54	-22.41	0.00	-1,101.22	0.00	1,101.22	1,439.61	719.81	1,544.48	762.76	46.34	-5.61	0.580
80.00	-15.05	-22.12	0.00	-1,056.40	0.00	1,056.40	1,429.11	714.55	1,514.58	747.99	48.72	-5.75	0.562
82.00	-14.57	-21.82	0.00	-1,012.17	0.00	1,012.17	1,418.44	709.22	1,484.77	733.27	51.15	-5.88	0.543
84.00	-14.09	-21.53	0.00	-968.52	0.00	968.52	1,407.60	703.80	1,455.07	718.61	53.64	-6.01	0.525
86.00	-13.61	-21.23	0.00	-925.46	0.00	925.46	1,396.60	698.30	1,425.49	704.00	56.18	-6.14	0.507
88.00	-13.14	-20.93	0.00	-882.99	0.00	882.99	1,385.43	692.71	1,396.02	689.44	58.77	-6.26	0.488
90.00	-12.68	-20.63	0.00	-841.13	0.00	841.13	1,374.09	687.04	1,366.68	674.95	61.42	-6.39	0.470
92.00	-12.21	-20.33	0.00	-799.86	0.00	799.86	1,362.59	681.29	1,337.48	660.53	64.12	-6.51	0.451

Pole :	302489		Code: ANSI/TIA-222 Rev G		3/27/2012 1:57:39 PM
Location :	Enfd - Enfield, CT		Struct Class : II		Page: 48
Height :	150.0 (ft)		Exposure Category : B		
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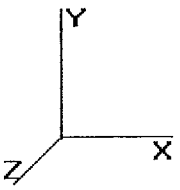

Load Case: 0.9D + 1.6W — 97.00 mph with No Ice (Reduced DL) — 31 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

94.00	-11.75	-20.03	0.00	-759.20	0.00	759.20	1,350.92	675.46	1,308.41	646.17	66.86	-6.62	0.432
96.00	-11.29	-19.73	0.00	-719.14	0.00	719.14	1,339.08	669.54	1,279.49	631.89	69.66	-6.74	0.414
98.00	-10.84	-19.42	0.00	-679.69	0.00	679.69	1,327.08	663.54	1,250.72	617.68	72.50	-6.85	0.395
100.00	-10.39	-19.11	0.00	-640.85	0.00	640.85	1,314.91	657.46	1,222.10	603.55	75.38	-6.96	0.377
102.00	-9.95	-18.81	0.00	-602.62	0.00	602.62	1,302.58	651.29	1,193.66	589.50	78.31	-7.06	0.358
104.00	-9.50	-18.50	0.00	-565.01	0.00	565.01	1,290.07	645.04	1,165.38	575.54	81.29	-7.16	0.339
106.00	-9.07	-18.19	0.00	-528.01	0.00	528.01	1,277.41	638.70	1,137.28	561.66	84.30	-7.26	0.320
108.00	-8.63	-17.88	0.00	-491.63	0.00	491.63	1,264.57	632.29	1,109.37	547.87	87.36	-7.35	0.302
110.00	-8.21	-17.57	0.00	-455.87	0.00	455.87	1,247.14	623.57	1,077.81	532.29	90.45	-7.44	0.284
110.00	-8.20	-17.57	0.00	-455.86	0.00	455.86	1,247.13	623.57	1,077.80	532.29	90.45	-7.44	0.284
110.00	-8.20	-17.57	0.00	-455.86	0.00	455.86	846.54	423.27	735.96	363.46	90.45	-7.44	0.343
112.00	-7.73	-16.02	0.00	-420.73	0.00	420.73	839.47	419.74	718.87	355.02	93.58	-7.53	0.318
114.00	-7.35	-15.72	0.00	-388.69	0.00	388.69	832.23	416.12	701.82	346.60	96.74	-7.62	0.297
116.00	-6.97	-15.41	0.00	-357.26	0.00	357.26	824.82	412.41	684.82	338.21	99.95	-7.70	0.275
118.00	-6.59	-15.11	0.00	-326.43	0.00	326.43	817.25	408.63	667.88	329.84	103.18	-7.78	0.253
120.00	-6.22	-14.80	0.00	-296.22	0.00	296.22	809.51	404.76	651.00	321.50	106.45	-7.85	0.232
121.00	-6.03	-14.65	0.00	-281.41	0.00	281.41	805.58	402.79	642.58	317.35	108.09	-7.89	0.221
121.00	-6.03	-14.65	0.00	-281.41	0.00	281.41	805.58	402.79	642.58	317.35	108.09	-7.89	0.896
122.00	-5.71	-13.93	0.00	-266.76	0.00	266.76	801.61	400.80	634.19	313.20	109.74	-7.92	0.860
124.00	-5.44	-13.66	0.00	-238.91	0.00	238.91	793.54	396.77	617.45	304.94	113.11	-8.19	0.791
126.00	-5.20	-13.40	0.00	-211.58	0.00	211.58	785.30	392.65	600.81	296.72	116.58	-8.43	0.721
128.00	-5.06	-13.15	0.00	-184.78	0.00	184.78	776.89	388.45	584.25	288.54	120.15	-8.66	0.648
130.00	-3.88	-9.67	0.00	-158.47	0.00	158.47	768.32	384.16	567.78	280.41	123.81	-8.87	0.571
132.00	-3.77	-9.43	0.00	-139.14	0.00	139.14	759.59	379.79	551.42	272.33	127.56	-9.06	0.517
134.00	-3.68	-9.20	0.00	-120.27	0.00	120.27	750.68	375.34	535.17	264.30	131.38	-9.24	0.461
136.00	-3.59	-8.97	0.00	-101.88	0.00	101.88	741.61	370.81	519.04	256.33	135.26	-9.39	0.403
138.00	-3.50	-8.74	0.00	-83.94	0.00	83.94	732.38	366.19	503.02	248.42	139.21	-9.53	0.343
140.00	-2.20	-6.34	0.00	-66.47	0.00	66.47	722.98	361.49	487.14	240.58	143.21	-9.65	0.280
142.00	-2.14	-6.14	0.00	-53.80	0.00	53.80	713.41	356.70	471.39	232.80	147.26	-9.75	0.234
144.00	-1.93	-5.25	0.00	-41.23	0.00	41.23	701.03	350.52	454.07	224.25	151.34	-9.84	0.187
146.00	-1.88	-5.07	0.00	-30.73	0.00	30.73	687.09	343.54	436.08	215.36	155.46	-9.91	0.146
148.00	-1.83	-4.88	0.00	-20.59	0.00	20.59	673.14	336.57	418.45	206.66	159.60	-9.96	0.103
150.00	0.00	-4.49	0.00	-10.83	0.00	10.83	659.19	329.60	401.19	198.13	163.76	-9.99	0.055

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:39 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 49
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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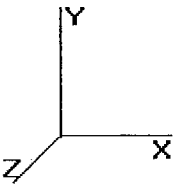

Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 31 Iterations

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)	Aa (sf)	CfAa (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
2.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.511	2.00	6.926	8.31	38.9	150.9	647.9
4.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.620	2.00	6.908	8.29	38.8	160.9	654.8
6.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.687	2.00	6.877	8.25	38.6	166.5	657.3
8.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.736	2.00	6.839	8.21	38.4	170.1	657.8
10.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.775	2.00	6.798	8.16	38.2	172.7	657.3
12.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.808	2.00	6.755	8.11	37.9	174.6	656.1
14.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.836	2.00	6.710	8.05	37.7	175.9	654.3
16.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.860	2.00	6.664	8.00	37.4	176.9	652.2
18.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.882	2.00	6.618	7.94	37.2	177.5	649.8
20.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.902	2.00	6.570	7.88	36.9	178.0	647.1
22.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.921	2.00	6.522	7.83	36.6	178.2	644.3
24.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.937	2.00	6.474	7.77	36.4	178.3	641.2
26.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.953	2.00	6.425	7.71	36.1	178.2	638.1
28.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.967	2.00	6.376	7.65	35.8	178.0	634.8
30.00		1.00	0.70	4.260	4.686	0.000	1.200	*	1.981	2.00	6.326	7.59	35.6	177.7	631.4
31.50	Bot - Section 2	1.00	0.71	4.319	4.751	0.000	1.200	*	1.991	1.50	4.712	5.65	26.9	133.1	471.4
32.00		1.00	0.71	4.339	4.773	0.000	1.200	*	1.994	0.50	1.590	1.91	9.1	45.1	224.6
34.00		1.00	0.72	4.415	4.856	0.000	1.200	*	2.006	2.00	6.334	7.60	36.9	180.0	894.8
35.67	Top - Section 1	1.00	0.73	4.475	4.923	0.000	1.200	*	2.016	1.67	5.241	6.29	31.0	149.7	741.1
36.00		1.00	0.73	4.487	4.936	0.000	1.200	*	2.017	0.33	1.042	1.25	6.2	29.9	96.0
38.00		1.00	0.75	4.557	5.013	0.000	1.200	*	2.028	2.00	6.233	7.48	37.5	178.9	574.6
40.00		1.00	0.76	4.625	5.087	0.000	1.200	*	2.039	2.00	6.183	7.42	37.7	178.2	571.3
42.00		1.00	0.77	4.689	5.158	0.000	1.200	*	2.049	2.00	6.132	7.36	38.0	177.4	568.0
44.00		1.00	0.78	4.752	5.227	0.000	1.200	*	2.058	2.00	6.081	7.30	38.1	176.6	564.6
46.00		1.00	0.79	4.813	5.294	0.000	1.200	*	2.068	2.00	6.030	7.24	38.3	175.8	561.2
48.00		1.00	0.80	4.872	5.359	0.000	1.200	*	2.076	2.00	5.979	7.17	38.4	174.9	557.7
50.00		1.00	0.81	4.929	5.422	0.000	1.200	*	2.085	2.00	5.928	7.11	38.6	174.0	554.2
52.00		1.00	0.82	4.984	5.483	0.000	1.200	*	2.093	2.00	5.876	7.05	38.7	173.0	550.7
54.00		1.00	0.82	5.039	5.542	0.000	1.200	*	2.101	2.00	5.825	6.99	38.7	172.0	547.1
56.00	Appertunance(s)	1.00	0.83	5.091	5.600	0.000	1.200	*	2.109	2.00	5.773	6.93	38.8	170.9	543.5
58.00		1.00	0.84	5.142	5.657	0.000	1.200	*	2.116	2.00	5.722	6.87	38.8	169.9	539.8
60.00		1.00	0.85	5.193	5.712	0.000	1.200	*	2.123	2.00	5.670	6.80	38.9	168.8	536.1
62.00		1.00	0.86	5.241	5.766	0.000	1.200	*	2.130	2.00	5.618	6.74	38.9	167.6	532.4
64.00		1.00	0.87	5.289	5.818	0.000	1.200	*	2.137	2.00	5.567	6.68	38.9	166.4	528.7
66.00		1.00	0.87	5.336	5.869	0.000	1.200	*	2.144	2.00	5.515	6.62	38.8	165.3	524.9
68.00		1.00	0.88	5.382	5.920	0.000	1.200	*	2.150	2.00	5.463	6.56	38.8	164.0	521.1
70.00		1.00	0.89	5.426	5.969	0.000	1.200	*	2.156	2.00	5.411	6.49	38.8	162.8	517.3
70.00	Bot - Section 3	1.00	0.89	5.426	5.969	0.000	1.200	*	2.156	0.00	0.001	0.00	0.0	0.0	0.1
72.00		1.00	0.90	5.470	6.017	0.000	1.200	*	2.162	2.00	5.444	6.53	39.3	164.3	694.5
73.50	Top - Section 2	1.00	0.90	5.502	6.053	0.000	1.200	*	2.167	1.50	4.050	4.86	29.4	122.6	517.3
74.00		1.00	0.90	5.513	6.064	0.000	1.200	*	2.168	0.50	1.342	1.61	9.8	40.7	118.0
76.00		1.00	0.91	5.555	6.111	0.000	1.200	*	2.174	2.00	5.341	6.41	39.2	161.8	469.6
78.00		1.00	0.92	5.597	6.156	0.000	1.200	*	2.180	2.00	5.289	6.35	39.1	160.4	466.2
80.00		1.00	0.92	5.637	6.201	0.000	1.200	*	2.185	2.00	5.236	6.28	39.0	159.1	462.8
82.00		1.00	0.93	5.677	6.245	0.000	1.200	*	2.191	2.00	5.184	6.22	38.8	157.7	459.4
84.00		1.00	0.94	5.716	6.288	0.000	1.200	*	2.196	2.00	5.132	6.16	38.7	156.4	455.9
86.00		1.00	0.94	5.755	6.331	0.000	1.200	*	2.201	2.00	5.079	6.10	38.6	155.0	452.5
88.00		1.00	0.95	5.793	6.372	0.000	1.200	*	2.206	2.00	5.027	6.03	38.4	153.6	449.0
90.00		1.00	0.95	5.830	6.413	0.000	1.200	*	2.211	2.00	4.975	5.97	38.3	152.1	445.5
92.00		1.00	0.96	5.867	6.454	0.000	1.200	*	2.216	2.00	4.922	5.91	38.1	150.7	442.0

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:39 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 50
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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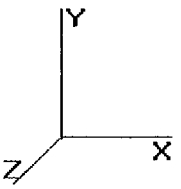

Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 31 Iterations

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

94.00		1.00	0.97	5.903	6.493	0.000	1.200 *	2.221	2.00	4.870	5.84	37.9	149.2	438.5
96.00		1.00	0.97	5.939	6.533	0.000	1.200 *	2.225	2.00	4.817	5.78	37.8	147.8	435.0
98.00		1.00	0.98	5.974	6.571	0.000	1.200 *	2.230	2.00	4.765	5.72	37.6	146.3	431.5
100.0		1.00	0.98	6.008	6.609	0.000	1.200 *	2.234	2.00	4.712	5.65	37.4	144.8	427.9
102.0		1.00	0.99	6.043	6.647	0.000	1.200 *	2.239	2.00	4.659	5.59	37.2	143.3	424.3
104.0		1.00	0.99	6.076	6.684	0.000	1.200 *	2.243	2.00	4.607	5.53	36.9	141.8	420.8
106.0		1.00	1.00	6.109	6.720	0.000	1.200 *	2.248	2.00	4.554	5.46	36.7	140.2	417.2
108.0		1.00	1.01	6.142	6.756	0.000	1.200 *	2.252	2.00	4.501	5.40	36.5	138.7	413.6
110.0		1.00	1.01	6.174	6.792	0.000	1.200 *	2.256	2.00	4.449	5.34	36.3	137.1	409.9
110.0	Top - Section 3	1.00	1.01	6.174	6.792	0.000	1.200 *	2.256	0.00	0.001	0.00	0.0	0.0	0.1
112.0	Appertunance(s)	1.00	1.02	6.206	6.827	0.000	1.200 *	2.260	2.00	4.395	5.27	36.0	135.6	372.3
114.0		1.00	1.02	6.238	6.861	0.000	1.200 *	2.264	2.00	4.343	5.21	35.8	134.0	369.2
116.0		1.00	1.03	6.269	6.896	0.000	1.200 *	2.268	2.00	4.290	5.15	35.5	132.4	366.1
118.0		1.00	1.03	6.299	6.929	0.000	1.200 *	2.272	2.00	4.238	5.09	35.2	130.8	362.9
120.0		1.00	1.04	6.330	6.963	0.000	1.200 *	2.276	2.00	4.185	5.02	35.0	129.2	359.8
121.0	Reinf. Top	1.00	1.04	6.345	6.979	0.000	1.200 *	2.277	1.00	2.072	2.49	17.4	64.2	178.9
122.0	Appertunance(s)	1.00	1.04	6.360	6.996	0.000	1.200 *	2.279	1.00	2.059	2.47	17.3	63.8	111.3
124.0		1.00	1.05	6.389	7.028	0.000	1.200 *	2.283	2.00	4.079	4.90	34.4	126.0	219.9
126.0		1.00	1.05	6.419	7.060	0.000	1.200 *	2.287	2.00	4.026	4.83	34.1	124.3	216.7
128.0		1.00	1.06	6.448	7.092	0.000	1.200 *	2.290	2.00	3.974	4.77	33.8	122.7	213.5
130.0	Appertunance(s)	1.00	1.06	6.476	7.124	0.000	1.200 *	2.294	2.00	3.921	4.70	33.5	121.0	210.3
132.0		1.00	1.07	6.504	7.155	0.000	1.200 *	2.297	2.00	3.868	4.64	33.2	119.4	207.1
134.0		1.00	1.07	6.532	7.186	0.000	1.200 *	2.301	2.00	3.815	4.58	32.9	117.7	203.9
136.0		1.00	1.07	6.560	7.216	0.000	1.200 *	2.304	2.00	3.762	4.51	32.6	116.0	200.6
138.0		1.00	1.08	6.588	7.246	0.000	1.200 *	2.308	2.00	3.709	4.45	32.3	114.3	197.4
140.0	Appertunance(s)	1.00	1.08	6.615	7.276	0.000	1.200 *	2.311	2.00	3.656	4.39	31.9	112.6	194.2
142.0		1.00	1.09	6.642	7.306	0.000	1.200 *	2.314	2.00	3.603	4.32	31.6	110.9	190.9
144.0	Appertunance(s)	1.00	1.09	6.668	7.335	0.000	1.200 *	2.317	2.00	3.550	4.26	31.2	109.2	187.7
146.0		1.00	1.10	6.695	7.364	0.000	1.200 *	2.321	2.00	3.497	4.20	30.9	107.5	184.4
148.0		1.00	1.10	6.721	7.393	0.000	1.200 *	2.324	2.00	3.444	4.13	30.6	105.8	181.1
150.0	Appertunance(s)	1.00	1.11	6.746	7.421	0.000	1.200 *	2.327	2.00	3.391	4.07	30.2	104.1	177.9
* = Cf Adjusted By Linear Load Ra Effect							Totals:		150.00			2,751.6	11,473.8	35,603.1

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:39 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 51
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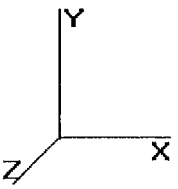

Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 31 Iterations

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)	CaAa Factor	Ka	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
56.00	Channel Master Type	1	5.091	5.600	1.00	1.00	23.83	0.000	0.000	133.48	0.00	0.00	341.20
112.0	24" x 24" Junction	1	6.206	6.827	0.80	0.80	4.76	0.000	0.000	32.52	0.00	0.00	204.69
112.0	Argus LLPX310R	3	6.206	6.827	0.58	0.80	9.60	0.000	0.000	65.54	0.00	0.00	468.24
112.0	Collar	1	6.206	6.827	1.00	1.00	17.72	0.000	0.000	120.98	0.00	0.00	81.39
112.0	DragonWave A-ANT-	2	6.206	6.827	0.72	0.80	9.13	0.000	0.000	62.36	0.00	0.00	371.71
112.0	DragonWave Horizon	2	6.206	6.827	0.40	0.80	0.62	0.000	0.000	4.21	0.00	0.00	113.22
112.0	NextNet BTS-2500	3	6.206	6.827	0.54	0.80	4.16	0.000	0.000	28.42	0.00	0.00	370.26
122.0	Flush Mounts	1	6.360	6.996	1.00	1.00	8.29	0.000	0.000	57.97	0.00	0.00	595.87
122.0	RFS APXV18-206517S-	3	6.360	6.996	0.66	0.80	13.42	0.000	0.000	93.85	0.00	0.00	598.69
130.0	Antel BXA-171085-12C	3	6.476	7.124	0.58	0.80	11.13	0.000	0.000	79.32	0.00	0.00	572.93
130.0	Antel BXA-70063-4CF-	3	6.476	7.124	0.63	0.80	11.37	0.000	0.000	81.02	0.00	0.00	548.29
130.0	Antel LPA-80080/6CF	6	6.476	7.124	1.14	0.80	40.69	0.000	0.000	289.89	0.00	0.00	1,784.59
130.0	RFS FD9R6004/2C-3L	6	6.476	7.124	0.40	0.80	1.66	0.000	0.000	11.81	0.00	0.00	144.06
130.0	Round Low Profile Pl	1	6.476	7.124	1.00	1.00	46.99	0.000	0.000	334.72	0.00	0.00	2,453.33
140.0	Andrew Dual Duplex T	6	6.615	7.276	0.40	0.80	2.52	0.000	0.000	18.35	0.00	0.00	296.45
140.0	EMS RR90-17-02DP	3	6.615	7.276	0.51	0.80	8.77	0.000	0.000	63.82	0.00	0.00	493.70
140.0	Flat Low Profile Pla	1	6.615	7.276	1.00	1.00	51.43	0.000	0.000	374.24	0.00	0.00	2,459.68
140.0	RFS APX16DWV-	3	6.615	7.276	0.55	0.80	12.48	0.000	0.000	90.81	0.00	0.00	700.76
144.0	Diamond X50A	2	6.705	7.375	1.00	1.00	5.86	0.000	2.800	43.21	0.00	120.99	193.07
144.0	Flat Side Arm	2	6.668	7.335	1.00	1.00	19.14	0.000	0.000	140.40	0.00	0.00	394.67
150.0	ADC DD1900	6	6.810	7.491	0.38	0.75	3.86	0.000	5.000	28.92	0.00	144.58	389.09
150.0	Allgon 7770.00	6	6.810	7.491	0.50	0.75	20.63	0.000	5.000	154.53	0.00	772.67	1,415.97
150.0	Andrew SBNH-	1	6.810	7.491	0.56	0.75	7.69	0.000	5.000	57.63	0.00	288.15	452.43
150.0	Decibel DB809KE-SY	1	6.818	7.500	1.00	1.00	7.87	0.000	5.667	59.03	0.00	334.50	258.56
150.0	Ericsson RRUS 11	6	6.772	7.449	0.50	1.00	10.22	0.000	2.000	76.15	0.00	152.31	1,092.01
150.0	Flat Platform w/ Han	1	6.746	7.421	1.00	1.00	70.42	0.000	0.000	522.59	0.00	0.00	3,848.78
150.0	Powerwave P65-17-	2	6.810	7.491	0.64	0.75	17.46	0.000	5.000	130.80	0.00	654.02	851.12
150.0	Raycap DC6-48-60-18-	1	6.772	7.449	1.00	1.00	2.18	0.000	2.000	16.24	0.00	32.48	171.60
										3,172.81			21,666.33

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:39 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 52
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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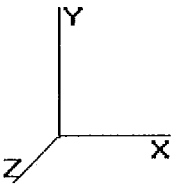


Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 31 Iterations

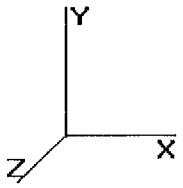
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

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)
2.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.16	1.40	4.256	0.325	0.000	6.54	63.79
2.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.325	0.000	0.00	6.69
2.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.325	0.000	0.00	12.28
2.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.61	0.73	4.256	0.325	0.000	3.42	9.39
2.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.325	0.000	0.00	49.24
2.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.49	1.79	4.256	0.325	0.000	8.39	63.79
2.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.83	1.00	4.256	0.325	0.000	4.68	92.89
2.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.325	0.000	0.00	193.58
2.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.325	0.000	0.00	49.24
2.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.325	0.000	0.00	13.21
2.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.325	0.000	0.00	35.99
2.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.325	0.000	0.00	6.31
4.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.20	1.44	4.256	0.327	0.000	6.74	67.29
4.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.327	0.000	0.00	7.58
4.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.327	0.000	0.00	13.37
4.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.64	0.77	4.256	0.327	0.000	3.62	10.43
4.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.327	0.000	0.00	52.07
4.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.53	1.84	4.256	0.327	0.000	8.59	67.29
4.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.87	1.04	4.256	0.327	0.000	4.89	97.73
4.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.327	0.000	0.00	196.09
4.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.327	0.000	0.00	52.07
4.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.327	0.000	0.00	14.46
4.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.327	0.000	0.00	37.61
4.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.327	0.000	0.00	7.18
6.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.22	1.47	4.256	0.330	0.000	6.87	69.48
6.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.330	0.000	0.00	8.17
6.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.330	0.000	0.00	14.08
6.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.67	0.80	4.256	0.330	0.000	3.75	11.11
6.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.330	0.000	0.00	53.85
6.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.55	1.86	4.256	0.330	0.000	8.72	69.48
6.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.89	1.07	4.256	0.330	0.000	5.01	100.75
6.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.330	0.000	0.00	197.68
6.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.330	0.000	0.00	53.85
6.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.330	0.000	0.00	15.27
6.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.330	0.000	0.00	38.64
6.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.330	0.000	0.00	7.75
8.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.24	1.49	4.256	0.333	0.000	6.96	71.11
8.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.333	0.000	0.00	8.61
8.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.333	0.000	0.00	14.61
8.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.68	0.82	4.256	0.333	0.000	3.84	11.62
8.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.333	0.000	0.00	55.17
8.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.57	1.88	4.256	0.333	0.000	8.81	71.11
8.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.91	1.09	4.256	0.333	0.000	5.10	102.98
8.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.333	0.000	0.00	198.85
8.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.333	0.000	0.00	55.17
8.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.333	0.000	0.00	15.87
8.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.333	0.000	0.00	39.42
8.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.333	0.000	0.00	8.19
10.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.25	1.50	4.256	0.336	0.000	7.03	72.41
10.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.336	0.000	0.00	8.97
10.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.336	0.000	0.00	15.04



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Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 31 Iterations

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

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
Ice Importance Factor : 1.00

10.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.70	0.84	4.256	0.336	0.000	3.91	12.03
10.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.336	0.000	0.00	56.23
10.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.58	1.90	4.256	0.336	0.000	8.89	72.41
10.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.92	1.11	4.256	0.336	0.000	5.18	104.76
10.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.336	0.000	0.00	199.80
10.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.336	0.000	0.00	56.23
10.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.336	0.000	0.00	16.36
10.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.336	0.000	0.00	40.04
10.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.336	0.000	0.00	8.54
12.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.26	1.52	4.256	0.339	0.000	7.09	73.50
12.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.339	0.000	0.00	9.27
12.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.339	0.000	0.00	15.41
12.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.71	0.85	4.256	0.339	0.000	3.97	12.38
12.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.339	0.000	0.00	57.12
12.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.59	1.91	4.256	0.339	0.000	8.95	73.50
12.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.93	1.12	4.256	0.339	0.000	5.24	106.26
12.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.339	0.000	0.00	200.59
12.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.339	0.000	0.00	57.12
12.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.339	0.000	0.00	16.77
12.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.339	0.000	0.00	40.56
12.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.339	0.000	0.00	8.84
14.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.27	1.53	4.256	0.342	0.000	7.15	74.44
14.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.342	0.000	0.00	9.54
14.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.342	0.000	0.00	15.72
14.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.72	0.86	4.256	0.342	0.000	4.03	12.68
14.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.342	0.000	0.00	57.89
14.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.60	1.92	4.256	0.342	0.000	9.00	74.44
14.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.94	1.13	4.256	0.342	0.000	5.29	107.54
14.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.342	0.000	0.00	201.28
14.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.342	0.000	0.00	57.89
14.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.342	0.000	0.00	17.13
14.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.342	0.000	0.00	41.02
14.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.342	0.000	0.00	9.10
16.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.28	1.54	4.256	0.345	0.000	7.19	75.27
16.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.345	0.000	0.00	9.78
16.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.345	0.000	0.00	16.01
16.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.73	0.87	4.256	0.345	0.000	4.07	12.95
16.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.345	0.000	0.00	58.57
16.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.61	1.93	4.256	0.345	0.000	9.05	75.27
16.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.95	1.14	4.256	0.345	0.000	5.34	108.68
16.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.345	0.000	0.00	201.89
16.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.345	0.000	0.00	58.57
16.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.345	0.000	0.00	17.45
16.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.345	0.000	0.00	41.42
16.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.345	0.000	0.00	9.33
18.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.29	1.54	4.256	0.348	0.000	7.23	76.02
18.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.348	0.000	0.00	9.99
18.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.348	0.000	0.00	16.26
18.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.73	0.88	4.256	0.348	0.000	4.11	13.20
18.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.348	0.000	0.00	59.18
18.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.62	1.94	4.256	0.348	0.000	9.09	76.02
18.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.96	1.15	4.256	0.348	0.000	5.38	109.70
18.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.348	0.000	0.00	202.43
18.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.348	0.000	0.00	59.18
18.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.348	0.000	0.00	17.74
18.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.348	0.000	0.00	41.78
18.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.348	0.000	0.00	9.55

Pole :	302489	Code: ANSI/TIA-222 Rev G			3/27/2012 1:57:40 PM
Location :	Enfd - Enfield, CT	Struct Class : II			Page: 54
Height :	150.0 (ft)	Exposure Category : B			
Base Dia :	37.38 (in)	Topographic Category : 1			
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)			
Shape :	12 Sides				
Taper :	0.156700 (in/ft)				

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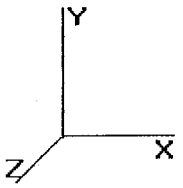


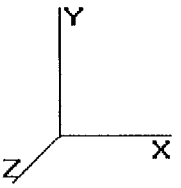
Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 31 Iterations

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

20.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.29	1.55	4.256	0.351	0.000	7.27	76.69
20.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.351	0.000	0.00	10.19
20.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.351	0.000	0.00	16.49
20.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.74	0.89	4.256	0.351	0.000	4.15	13.42
20.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.351	0.000	0.00	59.73
20.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.62	1.95	4.256	0.351	0.000	9.12	76.69
20.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.96	1.16	4.256	0.351	0.000	5.42	110.62
20.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.351	0.000	0.00	202.93
20.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.351	0.000	0.00	59.73
20.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.351	0.000	0.00	18.00
20.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.351	0.000	0.00	42.11
20.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.351	0.000	0.00	9.74
22.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.30	1.56	4.256	0.354	0.000	7.30	77.31
22.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.354	0.000	0.00	10.37
22.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.354	0.000	0.00	16.71
22.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.75	0.89	4.256	0.354	0.000	4.19	13.63
22.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.354	0.000	0.00	60.24
22.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.63	1.96	4.256	0.354	0.000	9.16	77.31
22.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.97	1.16	4.256	0.354	0.000	5.45	111.46
22.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.354	0.000	0.00	203.38
22.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.354	0.000	0.00	60.24
22.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.354	0.000	0.00	18.24
22.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.354	0.000	0.00	42.42
22.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.354	0.000	0.00	9.92
24.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.31	1.57	4.256	0.358	0.000	7.34	77.88
24.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.358	0.000	0.00	10.54
24.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.358	0.000	0.00	16.91
24.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.75	0.90	4.256	0.358	0.000	4.22	13.82
24.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.358	0.000	0.00	60.71
24.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.64	1.96	4.256	0.358	0.000	9.19	77.88
24.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.98	1.17	4.256	0.358	0.000	5.48	112.24
24.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.358	0.000	0.00	203.80
24.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.358	0.000	0.00	60.71
24.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.358	0.000	0.00	18.47
24.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.358	0.000	0.00	42.70
24.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.358	0.000	0.00	10.08
26.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.31	1.57	4.256	0.361	0.000	7.36	78.41
26.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.361	0.000	0.00	10.70
26.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.361	0.000	0.00	17.09
26.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.76	0.91	4.256	0.361	0.000	4.25	14.00
26.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.361	0.000	0.00	61.14
26.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.64	1.97	4.256	0.361	0.000	9.22	78.41
26.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.98	1.18	4.256	0.361	0.000	5.51	112.96
26.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.361	0.000	0.00	204.19
26.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.361	0.000	0.00	61.14
26.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.361	0.000	0.00	18.68
26.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.361	0.000	0.00	42.96
26.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.361	0.000	0.00	10.24
28.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.32	1.58	4.256	0.365	0.000	7.39	78.91
28.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.365	0.000	0.00	10.84
28.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.365	0.000	0.00	17.27
28.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.76	0.91	4.256	0.365	0.000	4.27	14.17
28.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.365	0.000	0.00	61.55
28.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.65	1.97	4.256	0.365	0.000	9.25	78.91
28.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.99	1.18	4.256	0.365	0.000	5.54	113.64
28.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.365	0.000	0.00	204.55
28.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.365	0.000	0.00	61.55



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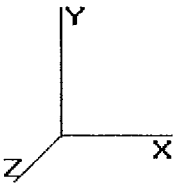
Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 31 Iterations

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

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
Ice Importance Factor : 1.00

28.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.365	0.000	0.00	18.87
28.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.365	0.000	0.00	43.21
28.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.256	0.365	0.000	0.00	10.38
30.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.32	1.58	4.260	0.368	0.000	7.42	79.38
30.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.260	0.368	0.000	0.00	10.98
30.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.260	0.368	0.000	0.00	17.43
30.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.77	0.92	4.260	0.368	0.000	4.30	14.32
30.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.260	0.368	0.000	0.00	61.93
30.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.65	1.98	4.260	0.368	0.000	9.28	79.38
30.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.99	1.19	4.260	0.368	0.000	5.57	114.27
30.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.260	0.368	0.000	0.00	204.90
30.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.260	0.368	0.000	0.00	61.93
30.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.260	0.368	0.000	0.00	19.06
30.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.260	0.368	0.000	0.00	43.44
30.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.260	0.368	0.000	0.00	10.52
31.50	(8) 1 5/8" Coax	Yes	1.50	1.200	3.96	0.99	1.19	4.319	0.371	0.000	5.66	59.80
31.50	(1) 10 mm Cable	Yes	1.50	0.000	0.00	0.00	0.00	4.319	0.371	0.000	0.00	8.32
31.50	(2) 19.7 mm Cable	Yes	1.50	0.000	0.00	0.00	0.00	4.319	0.371	0.000	0.00	13.16
31.50	(2) 1/2" Coax	Yes	1.50	1.200	0.63	0.58	0.69	4.319	0.371	0.000	3.29	10.83
31.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	4.319	0.371	0.000	0.00	46.66
31.50	(8) 1 5/8" Coax	Yes	1.50	1.200	5.94	1.24	1.49	4.319	0.371	0.000	7.07	59.80
31.50	(12) 1 5/8" Coax	Yes	1.50	1.200	1.98	0.75	0.89	4.319	0.371	0.000	4.25	86.06
31.50	(4) #20 Dywidag bars	Yes	1.50	0.000	0.00	0.00	0.00	4.319	0.371	0.000	0.00	153.89
31.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	4.319	0.371	0.000	0.00	46.66
31.50	(4) 1/2" Coax	Yes	1.50	0.000	0.00	0.00	0.00	4.319	0.371	0.000	0.00	14.40
31.50	(2) 2" Cond.	Yes	1.50	0.000	0.00	0.00	0.00	4.319	0.371	0.000	0.00	32.71
31.50	(1) RG6	Yes	1.50	0.000	0.00	0.00	0.00	4.319	0.371	0.000	0.00	7.96
32.00	(8) 1 5/8" Coax	Yes	0.50	1.200	3.96	0.33	0.40	4.339	0.373	0.000	1.90	19.94
32.00	(1) 10 mm Cable	Yes	0.50	0.000	0.00	0.00	0.00	4.339	0.373	0.000	0.00	2.78
32.00	(2) 19.7 mm Cable	Yes	0.50	0.000	0.00	0.00	0.00	4.339	0.373	0.000	0.00	4.39
32.00	(2) 1/2" Coax	Yes	0.50	1.200	0.63	0.19	0.23	4.339	0.373	0.000	1.10	3.62
32.00	(6) 1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	4.339	0.373	0.000	0.00	15.56
32.00	(8) 1 5/8" Coax	Yes	0.50	1.200	5.94	0.41	0.50	4.339	0.373	0.000	2.37	19.94
32.00	(12) 1 5/8" Coax	Yes	0.50	1.200	1.98	0.25	0.30	4.339	0.373	0.000	1.42	28.70
32.00	(4) #20 Dywidag bars	Yes	0.50	0.000	0.00	0.00	0.00	4.339	0.373	0.000	0.00	51.27
32.00	(6) 1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	4.339	0.373	0.000	0.00	15.56
32.00	(4) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	4.339	0.373	0.000	0.00	4.81
32.00	(2) 2" Cond.	Yes	0.50	0.000	0.00	0.00	0.00	4.339	0.373	0.000	0.00	10.91
32.00	(1) RG6	Yes	0.50	0.000	0.00	0.00	0.00	4.339	0.373	0.000	0.00	2.66
34.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.33	1.59	4.415	0.375	0.000	7.74	80.24
34.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.415	0.375	0.000	0.00	11.24
34.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.415	0.375	0.000	0.00	17.74
34.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.77	0.93	4.415	0.375	0.000	4.51	14.62
34.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.415	0.375	0.000	0.00	62.64
34.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.66	1.99	4.415	0.375	0.000	9.67	80.24
34.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.00	1.20	4.415	0.375	0.000	5.82	115.44
34.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.415	0.375	0.000	0.00	205.53
34.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.415	0.375	0.000	0.00	62.64
34.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.415	0.375	0.000	0.00	19.40
34.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.415	0.375	0.000	0.00	43.86
34.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.415	0.375	0.000	0.00	10.77
35.67	(8) 1 5/8" Coax	Yes	1.67	1.200	3.96	1.11	1.33	4.475	0.379	0.000	6.56	67.15
35.67	(1) 10 mm Cable	Yes	1.67	0.000	0.00	0.00	0.00	4.475	0.379	0.000	0.00	9.45
35.67	(2) 19.7 mm Cable	Yes	1.67	0.000	0.00	0.00	0.00	4.475	0.379	0.000	0.00	14.88
35.67	(2) 1/2" Coax	Yes	1.67	1.200	0.63	0.65	0.78	4.475	0.379	0.000	3.83	12.28
35.67	(6) 1 5/8" Coax	Yes	1.67	0.000	0.00	0.00	0.00	4.475	0.379	0.000	0.00	52.43
35.67	(8) 1 5/8" Coax	Yes	1.67	1.200	5.94	1.39	1.66	4.475	0.379	0.000	8.18	67.15



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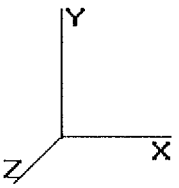
Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 31 Iterations

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

35.67	(12) 1 5/8" Coax	Yes	1.67	1.200	1.98	0.84	1.00	4.475	0.379	0.000	4.93	96.59
35.67	(4) #20 Dywidag bars	Yes	1.67	0.000	0.00	0.00	0.00	4.475	0.379	0.000	0.00	171.51
35.67	(6) 1 5/8" Coax	Yes	1.67	0.000	0.00	0.00	0.00	4.475	0.379	0.000	0.00	52.43
35.67	(4) 1/2" Coax	Yes	1.67	0.000	0.00	0.00	0.00	4.475	0.379	0.000	0.00	16.28
35.67	(2) 2" Cond.	Yes	1.67	0.000	0.00	0.00	0.00	4.475	0.379	0.000	0.00	36.70
35.67	(1) RG6	Yes	1.67	0.000	0.00	0.00	0.00	4.475	0.379	0.000	0.00	9.06
36.00	(8) 1 5/8" Coax	Yes	0.33	1.200	3.96	0.22	0.27	4.487	0.373	0.000	1.31	13.43
36.00	(1) 10 mm Cable	Yes	0.33	0.000	0.00	0.00	0.00	4.487	0.373	0.000	0.00	1.89
36.00	(2) 19.7 mm Cable	Yes	0.33	0.000	0.00	0.00	0.00	4.487	0.373	0.000	0.00	2.98
36.00	(2) 1/2" Coax	Yes	0.33	1.200	0.63	0.13	0.16	4.487	0.373	0.000	0.77	2.46
36.00	(6) 1 5/8" Coax	Yes	0.33	0.000	0.00	0.00	0.00	4.487	0.373	0.000	0.00	10.48
36.00	(8) 1 5/8" Coax	Yes	0.33	1.200	5.94	0.28	0.33	4.487	0.373	0.000	1.64	13.43
36.00	(12) 1 5/8" Coax	Yes	0.33	1.200	1.98	0.17	0.20	4.487	0.373	0.000	0.99	19.31
36.00	(4) #20 Dywidag bars	Yes	0.33	0.000	0.00	0.00	0.00	4.487	0.373	0.000	0.00	34.27
36.00	(6) 1 5/8" Coax	Yes	0.33	0.000	0.00	0.00	0.00	4.487	0.373	0.000	0.00	10.48
36.00	(4) 1/2" Coax	Yes	0.33	0.000	0.00	0.00	0.00	4.487	0.373	0.000	0.00	3.26
36.00	(2) 2" Cond.	Yes	0.33	0.000	0.00	0.00	0.00	4.487	0.373	0.000	0.00	7.34
36.00	(1) RG6	Yes	0.33	0.000	0.00	0.00	0.00	4.487	0.373	0.000	0.00	1.81
38.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.34	1.60	4.557	0.375	0.000	8.04	81.01
38.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.557	0.375	0.000	0.00	11.48
38.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.557	0.375	0.000	0.00	18.01
38.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.78	0.94	4.557	0.375	0.000	4.70	14.88
38.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.557	0.375	0.000	0.00	63.27
38.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.67	2.00	4.557	0.375	0.000	10.02	81.01
38.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.01	1.21	4.557	0.375	0.000	6.05	116.49
38.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.557	0.375	0.000	0.00	206.10
38.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.557	0.375	0.000	0.00	63.27
38.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.557	0.375	0.000	0.00	19.71
38.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.557	0.375	0.000	0.00	44.25
38.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.557	0.375	0.000	0.00	11.00
40.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.34	1.61	4.625	0.379	0.000	8.18	81.37
40.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.625	0.379	0.000	0.00	11.59
40.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.625	0.379	0.000	0.00	18.14
40.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.78	0.94	4.625	0.379	0.000	4.79	15.01
40.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.625	0.379	0.000	0.00	63.57
40.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.67	2.00	4.625	0.379	0.000	10.19	81.37
40.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.01	1.21	4.625	0.379	0.000	6.16	116.98
40.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.625	0.379	0.000	0.00	206.36
40.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.625	0.379	0.000	0.00	63.57
40.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.625	0.379	0.000	0.00	19.85
40.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.625	0.379	0.000	0.00	44.43
40.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.625	0.379	0.000	0.00	11.11
42.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.34	1.61	4.689	0.383	0.000	8.31	81.72
42.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.689	0.383	0.000	0.00	11.69
42.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.689	0.383	0.000	0.00	18.26
42.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.79	0.95	4.689	0.383	0.000	4.88	15.12
42.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.689	0.383	0.000	0.00	63.85
42.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.67	2.01	4.689	0.383	0.000	10.36	81.72
42.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.01	1.22	4.689	0.383	0.000	6.27	117.45
42.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.689	0.383	0.000	0.00	206.62
42.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.689	0.383	0.000	0.00	63.85
42.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.689	0.383	0.000	0.00	19.99
42.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.689	0.383	0.000	0.00	44.60
42.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.689	0.383	0.000	0.00	11.22
44.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.35	1.62	4.752	0.386	0.000	8.44	82.05
44.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.752	0.386	0.000	0.00	11.79
44.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.752	0.386	0.000	0.00	18.38

Pole : 302489
Location : Enfd - Enfield, 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 1.00 in Radial Ice — 31 Iterations

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

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
Ice Importance Factor : 1.00

44.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.79	0.95	4.752	0.386	0.000	4.96	15.24
44.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.752	0.386	0.000	0.00	64.12
44.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.68	2.01	4.752	0.386	0.000	10.51	82.05
44.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.02	1.22	4.752	0.386	0.000	6.37	117.90
44.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.752	0.386	0.000	0.00	206.86
44.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.752	0.386	0.000	0.00	64.12
44.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.752	0.386	0.000	0.00	20.13
44.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.752	0.386	0.000	0.00	44.77
44.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.752	0.386	0.000	0.00	11.32
46.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.35	1.62	4.813	0.390	0.000	8.57	82.37
46.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.813	0.390	0.000	0.00	11.89
46.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.813	0.390	0.000	0.00	18.50
46.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.79	0.95	4.813	0.390	0.000	5.05	15.35
46.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.813	0.390	0.000	0.00	64.39
46.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.68	2.02	4.813	0.390	0.000	10.67	82.37
46.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.02	1.22	4.813	0.390	0.000	6.47	118.33
46.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.813	0.390	0.000	0.00	207.10
46.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.813	0.390	0.000	0.00	64.39
46.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.813	0.390	0.000	0.00	20.25
46.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.813	0.390	0.000	0.00	44.92
46.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.813	0.390	0.000	0.00	11.41
48.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.35	1.62	4.872	0.394	0.000	8.70	82.67
48.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.872	0.394	0.000	0.00	11.99
48.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.872	0.394	0.000	0.00	18.61
48.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.80	0.96	4.872	0.394	0.000	5.13	15.46
48.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.872	0.394	0.000	0.00	64.64
48.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.68	2.02	4.872	0.394	0.000	10.82	82.67
48.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.02	1.23	4.872	0.394	0.000	6.57	118.74
48.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.872	0.394	0.000	0.00	207.33
48.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.872	0.394	0.000	0.00	64.64
48.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.872	0.394	0.000	0.00	20.38
48.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.872	0.394	0.000	0.00	45.08
48.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.872	0.394	0.000	0.00	11.50
50.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.35	1.63	4.929	0.398	0.000	8.82	82.97
50.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.929	0.398	0.000	0.00	12.08
50.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.929	0.398	0.000	0.00	18.72
50.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.80	0.96	4.929	0.398	0.000	5.20	15.56
50.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.929	0.398	0.000	0.00	64.88
50.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.68	2.02	4.929	0.398	0.000	10.96	82.97
50.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.02	1.23	4.929	0.398	0.000	6.67	119.14
50.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.929	0.398	0.000	0.00	207.54
50.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.929	0.398	0.000	0.00	64.88
50.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.929	0.398	0.000	0.00	20.50
50.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.929	0.398	0.000	0.00	45.23
50.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.929	0.398	0.000	0.00	11.59
52.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.36	1.63	4.984	0.403	0.000	8.93	83.25
52.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.984	0.403	0.000	0.00	12.17
52.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	4.984	0.403	0.000	0.00	18.82
52.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.80	0.96	4.984	0.403	0.000	5.28	15.66
52.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.984	0.403	0.000	0.00	65.12
52.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.69	2.03	4.984	0.403	0.000	11.10	83.25
52.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.03	1.23	4.984	0.403	0.000	6.76	119.53
52.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	4.984	0.403	0.000	0.00	207.75
52.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.984	0.403	0.000	0.00	65.12
52.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	4.984	0.403	0.000	0.00	20.61
52.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	4.984	0.403	0.000	0.00	45.37
52.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	4.984	0.403	0.000	0.00	11.68

Pole :	302489				Code: ANSI/TIA-222 Rev G						3/27/2012 1:57:40 PM	
Location :	Enfd - Enfield, CT				Struct Class : II						Page: 58	
Height :	150.0 (ft)				Exposure Category : B							
Base Dia :	37.38 (in)				Topographic Category : 1							
Top Dia :	15.00 (in)				Base Elev : 0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156700 (in/ft)											

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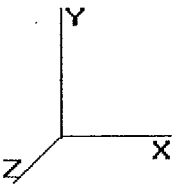

Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 31 Iterations

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

54.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.36	1.63	5.039	0.407	0.000	9.05	83.53
54.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.039	0.407	0.000	0.00	12.25
54.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.039	0.407	0.000	0.00	18.92
54.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.81	0.97	5.039	0.407	0.000	5.36	15.76
54.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.039	0.407	0.000	0.00	65.34
54.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.69	2.03	5.039	0.407	0.000	11.24	83.53
54.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.03	1.24	5.039	0.407	0.000	6.85	119.90
54.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.039	0.407	0.000	0.00	207.96
54.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.039	0.407	0.000	0.00	65.34
54.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.039	0.407	0.000	0.00	20.72
54.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.039	0.407	0.000	0.00	45.51
54.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	5.039	0.407	0.000	0.00	11.77
56.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.36	1.64	5.091	0.411	0.000	9.16	83.80
56.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.091	0.411	0.000	0.00	12.34
56.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.091	0.411	0.000	0.00	19.02
56.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.81	0.97	5.091	0.411	0.000	5.43	15.85
56.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.091	0.411	0.000	0.00	65.56
56.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.69	2.03	5.091	0.411	0.000	11.38	83.80
56.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.03	1.24	5.091	0.411	0.000	6.94	120.26
56.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.091	0.411	0.000	0.00	208.16
56.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.091	0.411	0.000	0.00	65.56
56.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.091	0.411	0.000	0.00	20.83
56.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.091	0.411	0.000	0.00	45.64
56.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	5.091	0.411	0.000	0.00	11.85
58.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.37	1.64	5.142	0.416	0.000	9.27	84.06
58.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.142	0.416	0.000	0.00	12.42
58.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.142	0.416	0.000	0.00	19.11
58.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.81	0.97	5.142	0.416	0.000	5.50	15.94
58.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.142	0.416	0.000	0.00	65.78
58.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.70	2.03	5.142	0.416	0.000	11.51	84.06
58.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.04	1.24	5.142	0.416	0.000	7.03	120.61
58.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.142	0.416	0.000	0.00	208.35
58.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.142	0.416	0.000	0.00	65.78
58.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.142	0.416	0.000	0.00	20.94
58.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.142	0.416	0.000	0.00	45.77
60.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.37	1.64	5.193	0.420	0.000	9.37	84.31
60.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.193	0.420	0.000	0.00	12.50
60.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.193	0.420	0.000	0.00	19.20
60.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.81	0.98	5.193	0.420	0.000	5.57	16.03
60.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.193	0.420	0.000	0.00	65.98
60.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.70	2.04	5.193	0.420	0.000	11.64	84.31
60.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.04	1.25	5.193	0.420	0.000	7.11	120.95
60.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.193	0.420	0.000	0.00	208.53
60.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.193	0.420	0.000	0.00	65.98
60.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.193	0.420	0.000	0.00	21.04
60.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.193	0.420	0.000	0.00	45.90
62.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.37	1.64	5.241	0.425	0.000	9.48	84.55
62.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.241	0.425	0.000	0.00	12.57
62.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.241	0.425	0.000	0.00	19.29
62.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.82	0.98	5.241	0.425	0.000	5.64	16.11
62.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.241	0.425	0.000	0.00	66.19
62.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.70	2.04	5.241	0.425	0.000	11.76	84.55
62.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.04	1.25	5.241	0.425	0.000	7.20	121.28
62.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.241	0.425	0.000	0.00	208.72
62.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.241	0.425	0.000	0.00	66.19
62.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.241	0.425	0.000	0.00	21.14
62.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.241	0.425	0.000	0.00	46.03

Pole :	302489				Code: ANSI/TIA-222 Rev G						3/27/2012 1:57:40 PM	
Location :	Enfd - Enfield, CT				Struct Class : II						Page: 59	
Height :	150.0 (ft)				Exposure Category : B							
Base Dia :	37.38 (in)				Topographic Category : 1							
Top Dia :	15.00 (in)				Base Elev : 0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156700 (in/ft)											

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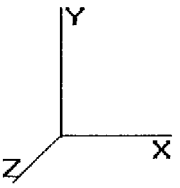

Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 31 Iterations

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

64.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.37	1.65	5.289	0.430	0.000	9.58	84.79
64.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.289	0.430	0.000	0.00	12.65
64.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.289	0.430	0.000	0.00	19.38
64.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.82	0.98	5.289	0.430	0.000	5.71	16.20
64.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.289	0.430	0.000	0.00	66.38
64.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.70	2.04	5.289	0.430	0.000	11.89	84.79
64.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.04	1.25	5.289	0.430	0.000	7.28	121.61
64.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.289	0.430	0.000	0.00	208.89
64.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.289	0.430	0.000	0.00	66.38
64.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.289	0.430	0.000	0.00	21.24
64.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.289	0.430	0.000	0.00	46.15
66.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.37	1.65	5.336	0.434	0.000	9.68	85.02
66.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.336	0.434	0.000	0.00	12.72
66.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.336	0.434	0.000	0.00	19.46
66.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.82	0.98	5.336	0.434	0.000	5.77	16.28
66.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.336	0.434	0.000	0.00	66.57
66.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.70	2.05	5.336	0.434	0.000	12.01	85.02
66.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.04	1.25	5.336	0.434	0.000	7.36	121.92
66.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.336	0.434	0.000	0.00	209.06
66.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.336	0.434	0.000	0.00	66.57
66.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.336	0.434	0.000	0.00	21.33
66.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.336	0.434	0.000	0.00	46.26
68.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.38	1.65	5.382	0.439	0.000	9.78	85.25
68.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.382	0.439	0.000	0.00	12.79
68.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.382	0.439	0.000	0.00	19.55
68.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.82	0.99	5.382	0.439	0.000	5.84	16.36
68.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.382	0.439	0.000	0.00	66.76
68.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.71	2.05	5.382	0.439	0.000	12.12	85.25
68.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.05	1.26	5.382	0.439	0.000	7.44	122.22
68.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.382	0.439	0.000	0.00	209.23
68.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.382	0.439	0.000	0.00	66.76
68.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.382	0.439	0.000	0.00	21.43
68.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.382	0.439	0.000	0.00	46.38
70.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.38	1.65	5.426	0.444	0.000	9.88	85.47
70.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.426	0.444	0.000	0.00	12.86
70.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.426	0.444	0.000	0.00	19.63
70.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.82	0.99	5.426	0.444	0.000	5.90	16.44
70.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.426	0.444	0.000	0.00	66.94
70.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.71	2.05	5.426	0.444	0.000	12.24	85.47
70.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.05	1.26	5.426	0.444	0.000	7.51	122.52
70.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.426	0.444	0.000	0.00	209.39
70.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.426	0.444	0.000	0.00	66.94
70.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.426	0.444	0.000	0.00	21.52
70.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.426	0.444	0.000	0.00	46.49
70.00	(8) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	5.426	0.447	0.000	0.00	0.01
70.00	(1) 10 mm Cable	Yes	0.00	0.000	0.00	0.00	0.00	5.426	0.447	0.000	0.00	0.00
70.00	(2) 19.7 mm Cable	Yes	0.00	0.000	0.00	0.00	0.00	5.426	0.447	0.000	0.00	0.00
70.00	(2) 1/2" Coax	Yes	0.00	1.200	0.63	0.00	0.00	5.426	0.447	0.000	0.00	0.00
70.00	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	5.426	0.447	0.000	0.00	0.01
70.00	(8) 1 5/8" Coax	Yes	0.00	1.200	5.94	0.00	0.00	5.426	0.447	0.000	0.00	0.01
70.00	(12) 1 5/8" Coax	Yes	0.00	1.200	1.98	0.00	0.00	5.426	0.447	0.000	0.00	0.02
70.00	(4) #20 Dywidag bars	Yes	0.00	0.000	0.00	0.00	0.00	5.426	0.447	0.000	0.00	0.04
70.00	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	5.426	0.447	0.000	0.00	0.01
70.00	(4) 1/2" Coax	Yes	0.00	0.000	0.00	0.00	0.00	5.426	0.447	0.000	0.00	0.00
70.00	(2) 2" Cond.	Yes	0.00	0.000	0.00	0.00	0.00	5.426	0.447	0.000	0.00	0.01
72.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.38	1.66	5.470	0.450	0.000	9.97	85.67
72.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.470	0.450	0.000	0.00	12.93

Pole :	302489	Code: ANSI/TIA-222 Rev G			3/27/2012 1:57:41 PM
Location :	Enfd - Enfield, CT	Struct Class : II			Page: 60
Height :	150.0 (ft)	Exposure Category : B			
Base Dia :	37.38 (in)	Topographic Category : 1			
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)			
Shape :	12 Sides				
Taper :	0.156700 (in/ft)				

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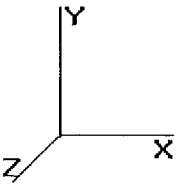

Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 31 Iterations

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

72.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.470	0.450	0.000	0.00	19.70
72.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.83	0.99	5.470	0.450	0.000	5.96	16.51
72.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.470	0.450	0.000	0.00	67.10
72.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.71	2.05	5.470	0.450	0.000	12.35	85.67
72.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.05	1.26	5.470	0.450	0.000	7.59	122.79
72.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.470	0.450	0.000	0.00	209.52
72.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.470	0.450	0.000	0.00	67.10
72.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.470	0.450	0.000	0.00	21.60
72.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.470	0.450	0.000	0.00	46.59
73.50	(8) 1 5/8" Coax	Yes	1.50	1.200	3.96	1.04	1.24	5.502	0.454	0.000	7.53	64.39
73.50	(1) 10 mm Cable	Yes	1.50	0.000	0.00	0.00	0.00	5.502	0.454	0.000	0.00	9.74
73.50	(2) 19.7 mm Cable	Yes	1.50	0.000	0.00	0.00	0.00	5.502	0.454	0.000	0.00	14.83
73.50	(2) 1/2" Coax	Yes	1.50	1.200	0.63	0.62	0.74	5.502	0.454	0.000	4.51	12.43
73.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	5.502	0.454	0.000	0.00	50.45
73.50	(8) 1 5/8" Coax	Yes	1.50	1.200	5.94	1.28	1.54	5.502	0.454	0.000	9.33	64.39
73.50	(12) 1 5/8" Coax	Yes	1.50	1.200	1.98	0.79	0.95	5.502	0.454	0.000	5.73	92.29
73.50	(4) #20 Dywidag bars	Yes	1.50	0.000	0.00	0.00	0.00	5.502	0.454	0.000	0.00	157.29
73.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	5.502	0.454	0.000	0.00	50.45
73.50	(4) 1/2" Coax	Yes	1.50	0.000	0.00	0.00	0.00	5.502	0.454	0.000	0.00	16.26
73.50	(2) 2" Cond.	Yes	1.50	0.000	0.00	0.00	0.00	5.502	0.454	0.000	0.00	35.02
74.00	(8) 1 5/8" Coax	Yes	0.50	1.200	3.96	0.35	0.41	5.513	0.448	0.000	2.51	21.46
74.00	(1) 10 mm Cable	Yes	0.50	0.000	0.00	0.00	0.00	5.513	0.448	0.000	0.00	3.25
74.00	(2) 19.7 mm Cable	Yes	0.50	0.000	0.00	0.00	0.00	5.513	0.448	0.000	0.00	4.94
74.00	(2) 1/2" Coax	Yes	0.50	1.200	0.63	0.21	0.25	5.513	0.448	0.000	1.50	4.14
74.00	(6) 1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	5.513	0.448	0.000	0.00	16.81
74.00	(8) 1 5/8" Coax	Yes	0.50	1.200	5.94	0.43	0.51	5.513	0.448	0.000	3.11	21.46
74.00	(12) 1 5/8" Coax	Yes	0.50	1.200	1.98	0.26	0.32	5.513	0.448	0.000	1.91	30.75
74.00	(4) #20 Dywidag bars	Yes	0.50	0.000	0.00	0.00	0.00	5.513	0.448	0.000	0.00	52.39
74.00	(6) 1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	5.513	0.448	0.000	0.00	16.81
74.00	(4) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	5.513	0.448	0.000	0.00	5.42
74.00	(2) 2" Cond.	Yes	0.50	0.000	0.00	0.00	0.00	5.513	0.448	0.000	0.00	11.67
76.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.38	1.66	5.555	0.452	0.000	10.15	86.09
76.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.555	0.452	0.000	0.00	13.06
76.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.555	0.452	0.000	0.00	19.86
76.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.83	1.00	5.555	0.452	0.000	6.08	16.66
76.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.555	0.452	0.000	0.00	67.46
76.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.71	2.06	5.555	0.452	0.000	12.57	86.09
76.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.05	1.27	5.555	0.452	0.000	7.73	123.37
76.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.555	0.452	0.000	0.00	209.86
76.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.555	0.452	0.000	0.00	67.46
76.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.555	0.452	0.000	0.00	21.77
76.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.555	0.452	0.000	0.00	46.81
78.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.39	1.66	5.597	0.457	0.000	10.24	86.29
78.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.597	0.457	0.000	0.00	13.12
78.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.597	0.457	0.000	0.00	19.93
78.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.83	1.00	5.597	0.457	0.000	6.14	16.73
78.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.597	0.457	0.000	0.00	67.62
78.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.72	2.06	5.597	0.457	0.000	12.68	86.29
78.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.06	1.27	5.597	0.457	0.000	7.81	123.63
78.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.597	0.457	0.000	0.00	210.01
78.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.597	0.457	0.000	0.00	67.62
78.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.597	0.457	0.000	0.00	21.86
78.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.597	0.457	0.000	0.00	46.91
80.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.39	1.67	5.637	0.463	0.000	10.33	86.49
80.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.637	0.463	0.000	0.00	13.19
80.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.637	0.463	0.000	0.00	20.01
80.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.83	1.00	5.637	0.463	0.000	6.20	16.80

Pole :	302489				Code: ANSI/TIA-222 Rev G						3/27/2012 1:57:41 PM	
Location :	Enfd - Enfield, CT				Struct Class : II						Page: 61	
Height :	150.0 (ft)				Exposure Category : B							
Base Dia :	37.38 (in)				Topographic Category : 1							
Top Dia :	15.00 (in)				Base Elev : 0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156700 (in/ft)											

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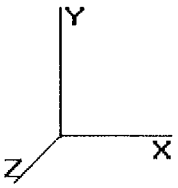

Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 31 Iterations

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

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

80.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.637	0.463	0.000	0.00	67.78
80.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.72	2.06	5.637	0.463	0.000	12.79	86.49
80.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.06	1.27	5.637	0.463	0.000	7.88	123.90
80.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.637	0.463	0.000	0.00	210.15
80.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.637	0.463	0.000	0.00	67.78
80.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.637	0.463	0.000	0.00	21.94
80.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.637	0.463	0.000	0.00	47.01
82.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.39	1.67	5.677	0.468	0.000	10.42	86.68
82.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.677	0.468	0.000	0.00	13.25
82.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.677	0.468	0.000	0.00	20.08
82.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.84	1.00	5.677	0.468	0.000	6.26	16.87
82.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.677	0.468	0.000	0.00	67.94
82.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.72	2.06	5.677	0.468	0.000	12.89	86.68
82.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.06	1.27	5.677	0.468	0.000	7.95	124.15
82.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.677	0.468	0.000	0.00	210.29
82.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.677	0.468	0.000	0.00	67.94
82.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.677	0.468	0.000	0.00	22.02
82.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.677	0.468	0.000	0.00	47.10
84.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.39	1.67	5.716	0.474	0.000	10.50	86.87
84.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.716	0.474	0.000	0.00	13.31
84.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.716	0.474	0.000	0.00	20.15
84.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.84	1.00	5.716	0.474	0.000	6.32	16.94
84.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.716	0.474	0.000	0.00	68.09
84.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.72	2.07	5.716	0.474	0.000	12.99	86.87
84.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.06	1.27	5.716	0.474	0.000	8.01	124.41
84.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.716	0.474	0.000	0.00	210.43
84.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.716	0.474	0.000	0.00	68.09
84.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.716	0.474	0.000	0.00	22.09
84.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.716	0.474	0.000	0.00	47.20
86.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.39	1.67	5.755	0.480	0.000	10.59	87.05
86.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.755	0.480	0.000	0.00	13.37
86.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.755	0.480	0.000	0.00	20.21
86.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.84	1.01	5.755	0.480	0.000	6.37	17.00
86.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.755	0.480	0.000	0.00	68.25
86.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.72	2.07	5.755	0.480	0.000	13.09	87.05
86.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.06	1.28	5.755	0.480	0.000	8.08	124.65
86.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.755	0.480	0.000	0.00	210.57
86.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.755	0.480	0.000	0.00	68.25
86.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.755	0.480	0.000	0.00	22.17
86.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.755	0.480	0.000	0.00	47.29
88.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.40	1.67	5.793	0.486	0.000	10.67	87.23
88.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.793	0.486	0.000	0.00	13.42
88.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.793	0.486	0.000	0.00	20.28
88.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.84	1.01	5.793	0.486	0.000	6.43	17.07
88.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.793	0.486	0.000	0.00	68.39
88.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.73	2.07	5.793	0.486	0.000	13.19	87.23
88.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.07	1.28	5.793	0.486	0.000	8.15	124.90
88.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.793	0.486	0.000	0.00	210.70
88.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.793	0.486	0.000	0.00	68.39
88.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.793	0.486	0.000	0.00	22.24
88.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.793	0.486	0.000	0.00	47.38
90.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.40	1.68	5.830	0.492	0.000	10.75	87.40
90.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.830	0.492	0.000	0.00	13.48
90.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.830	0.492	0.000	0.00	20.35
90.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.84	1.01	5.830	0.492	0.000	6.48	17.13
90.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.830	0.492	0.000	0.00	68.54
90.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.73	2.07	5.830	0.492	0.000	13.29	87.40

Pole :	302489				Code: ANSI/TIA-222 Rev G						3/27/2012 1:57:41 PM	
Location :	Enfd - Enfield, CT				Struct Class : II						Page: 62	
Height :	150.0 (ft)				Exposure Category : B							
Base Dia :	37.38 (in)				Topographic Category : 1							
Top Dia :	15.00 (in)				Base Elev : 0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156700 (in/ft)											

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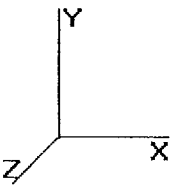

Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 31 Iterations

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

90.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.07	1.28	5.830	0.492	0.000	8.21	125.13
90.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.830	0.492	0.000	0.00	210.83
90.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.830	0.492	0.000	0.00	68.54
90.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.830	0.492	0.000	0.00	22.32
90.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.830	0.492	0.000	0.00	47.47
92.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.40	1.68	5.867	0.498	0.000	10.83	87.58
92.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.867	0.498	0.000	0.00	13.54
92.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.867	0.498	0.000	0.00	20.41
92.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.84	1.01	5.867	0.498	0.000	6.53	17.19
92.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.867	0.498	0.000	0.00	68.68
92.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.73	2.07	5.867	0.498	0.000	13.39	87.58
92.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.07	1.28	5.867	0.498	0.000	8.28	125.36
92.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.867	0.498	0.000	0.00	210.96
92.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.867	0.498	0.000	0.00	68.68
92.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.867	0.498	0.000	0.00	22.39
92.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.867	0.498	0.000	0.00	47.56
94.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.40	1.68	5.903	0.505	0.000	10.91	87.75
94.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.903	0.505	0.000	0.00	13.59
94.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.903	0.505	0.000	0.00	20.47
94.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.85	1.01	5.903	0.505	0.000	6.59	17.25
94.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.903	0.505	0.000	0.00	68.82
94.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.73	2.08	5.903	0.505	0.000	13.48	87.75
94.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.07	1.28	5.903	0.505	0.000	8.34	125.59
94.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.903	0.505	0.000	0.00	211.09
94.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.903	0.505	0.000	0.00	68.82
94.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.903	0.505	0.000	0.00	22.46
94.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.903	0.505	0.000	0.00	47.65
96.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.40	1.68	5.939	0.512	0.000	10.99	87.91
96.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.939	0.512	0.000	0.00	13.64
96.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.939	0.512	0.000	0.00	20.54
96.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.85	1.02	5.939	0.512	0.000	6.64	17.31
96.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.939	0.512	0.000	0.00	68.96
96.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.73	2.08	5.939	0.512	0.000	13.58	87.91
96.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.07	1.29	5.939	0.512	0.000	8.40	125.82
96.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.939	0.512	0.000	0.00	211.21
96.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.939	0.512	0.000	0.00	68.96
96.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.939	0.512	0.000	0.00	22.53
96.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.939	0.512	0.000	0.00	47.73
98.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.40	1.68	5.974	0.519	0.000	11.07	88.07
98.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.974	0.519	0.000	0.00	13.70
98.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	5.974	0.519	0.000	0.00	20.60
98.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.85	1.02	5.974	0.519	0.000	6.69	17.37
98.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.974	0.519	0.000	0.00	69.09
98.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.73	2.08	5.974	0.519	0.000	13.67	88.07
98.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.07	1.29	5.974	0.519	0.000	8.46	126.04
98.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	5.974	0.519	0.000	0.00	211.33
98.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.974	0.519	0.000	0.00	69.09
98.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	5.974	0.519	0.000	0.00	22.60
98.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	5.974	0.519	0.000	0.00	47.82
100.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.40	1.69	6.008	0.526	0.000	11.14	88.23
100.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.008	0.526	0.000	0.00	13.75
100.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.008	0.526	0.000	0.00	20.66
100.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.85	1.02	6.008	0.526	0.000	6.74	17.43
100.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.008	0.526	0.000	0.00	69.23
100.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.73	2.08	6.008	0.526	0.000	13.76	88.23
100.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.07	1.29	6.008	0.526	0.000	8.52	126.25
100.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.008	0.526	0.000	0.00	211.45

Pole :	302489			Code: ANSI/TIA-222 Rev G						3/27/2012 1:57:41 PM	
Location :	Enfd - Enfield, CT			Struct Class : II						Page: 63	
Height :	150.0 (ft)			Exposure Category : B							
Base Dia :	37.38 (in)			Topographic Category : 1							
Top Dia :	15.00 (in)			Base Elev : 0.000 (ft)							
Shape :	12 Sides										
Taper :	0.156700 (in/ft)										

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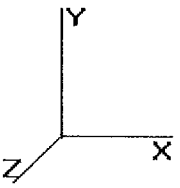


Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 31 Iterations

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

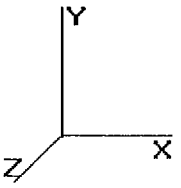
Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

100.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.008	0.526	0.000	0.00	69.23
100.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.008	0.526	0.000	0.00	22.66
100.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.008	0.526	0.000	0.00	47.90
102.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.41	1.69	6.043	0.533	0.000	11.22	88.39
102.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.043	0.533	0.000	0.00	13.80
102.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.043	0.533	0.000	0.00	20.72
102.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.85	1.02	6.043	0.533	0.000	6.79	17.49
102.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.043	0.533	0.000	0.00	69.36
102.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.74	2.08	6.043	0.533	0.000	13.85	88.39
102.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.08	1.29	6.043	0.533	0.000	8.58	126.46
102.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.043	0.533	0.000	0.00	211.57
102.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.043	0.533	0.000	0.00	69.36
102.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.043	0.533	0.000	0.00	22.73
102.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.043	0.533	0.000	0.00	47.98
104.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.41	1.69	6.076	0.540	0.000	11.29	88.55
104.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.076	0.540	0.000	0.00	13.85
104.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.076	0.540	0.000	0.00	20.77
104.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.85	1.02	6.076	0.540	0.000	6.84	17.54
104.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.076	0.540	0.000	0.00	69.48
104.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.74	2.09	6.076	0.540	0.000	13.94	88.55
104.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.08	1.29	6.076	0.540	0.000	8.64	126.67
104.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.076	0.540	0.000	0.00	211.68
104.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.076	0.540	0.000	0.00	69.48
104.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.076	0.540	0.000	0.00	22.79
104.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.076	0.540	0.000	0.00	48.06
106.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.41	1.69	6.109	0.548	0.000	11.36	88.70
106.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.109	0.548	0.000	0.00	13.90
106.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.109	0.548	0.000	0.00	20.83
106.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.85	1.03	6.109	0.548	0.000	6.89	17.60
106.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.109	0.548	0.000	0.00	69.61
106.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.74	2.09	6.109	0.548	0.000	14.03	88.70
106.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.08	1.30	6.109	0.548	0.000	8.70	126.88
106.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.109	0.548	0.000	0.00	211.80
106.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.109	0.548	0.000	0.00	69.61
106.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.109	0.548	0.000	0.00	22.86
106.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.109	0.548	0.000	0.00	48.14
108.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.41	1.69	6.142	0.556	0.000	11.44	88.85
108.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.142	0.556	0.000	0.00	13.95
108.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.142	0.556	0.000	0.00	20.89
108.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.86	1.03	6.142	0.556	0.000	6.94	17.65
108.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.142	0.556	0.000	0.00	69.73
108.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.74	2.09	6.142	0.556	0.000	14.11	88.85
108.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.08	1.30	6.142	0.556	0.000	8.76	127.08
108.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.142	0.556	0.000	0.00	211.91
108.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.142	0.556	0.000	0.00	69.73
108.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.142	0.556	0.000	0.00	22.92
108.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.142	0.556	0.000	0.00	48.22
110.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.41	1.69	6.174	0.564	0.000	11.51	89.00
110.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.174	0.564	0.000	0.00	14.00
110.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.174	0.564	0.000	0.00	20.94
110.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.86	1.03	6.174	0.564	0.000	6.98	17.71
110.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.174	0.564	0.000	0.00	69.86
110.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.74	2.09	6.174	0.564	0.000	14.20	89.00
110.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.08	1.30	6.174	0.564	0.000	8.82	127.28
110.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.174	0.564	0.000	0.00	212.02
110.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.174	0.564	0.000	0.00	69.86
110.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.174	0.564	0.000	0.00	22.98

Pole : 302489
Location : Enfd - Enfield, 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 1.00 in Radial Ice — 31 Iterations

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

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
Ice Importance Factor : 1.00

110.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.174	0.564	0.000	0.00	48.29
110.0	(8) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	6.174	0.568	0.000	0.00	0.01
110.0	(1) 10 mm Cable	Yes	0.00	0.000	0.00	0.00	0.00	6.174	0.568	0.000	0.00	0.00
110.0	(2) 19.7 mm Cable	Yes	0.00	0.000	0.00	0.00	0.00	6.174	0.568	0.000	0.00	0.00
110.0	(2) 1/2" Coax	Yes	0.00	1.200	0.63	0.00	0.00	6.174	0.568	0.000	0.00	0.00
110.0	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	6.174	0.568	0.000	0.00	0.01
110.0	(8) 1 5/8" Coax	Yes	0.00	1.200	5.94	0.00	0.00	6.174	0.568	0.000	0.00	0.01
110.0	(12) 1 5/8" Coax	Yes	0.00	1.200	1.98	0.00	0.00	6.174	0.568	0.000	0.00	0.02
110.0	(4) #20 Dywidag bars	Yes	0.00	0.000	0.00	0.00	0.00	6.174	0.568	0.000	0.00	0.04
110.0	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	6.174	0.568	0.000	0.00	0.01
110.0	(4) 1/2" Coax	Yes	0.00	0.000	0.00	0.00	0.00	6.174	0.568	0.000	0.00	0.00
110.0	(2) 2" Cond.	Yes	0.00	0.000	0.00	0.00	0.00	6.174	0.568	0.000	0.00	0.01
112.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.41	1.70	6.206	0.572	0.000	11.58	89.13
112.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.206	0.572	0.000	0.00	14.04
112.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.206	0.572	0.000	0.00	21.00
112.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.86	1.03	6.206	0.572	0.000	7.03	17.76
112.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.206	0.572	0.000	0.00	69.96
112.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.74	2.09	6.206	0.572	0.000	14.28	89.13
112.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.08	1.30	6.206	0.572	0.000	8.87	127.45
112.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.206	0.572	0.000	0.00	212.09
112.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.206	0.572	0.000	0.00	69.96
112.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.206	0.572	0.000	0.00	23.04
112.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.206	0.572	0.000	0.00	48.36
114.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.41	1.70	6.238	0.581	0.000	11.65	89.29
114.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.238	0.581	0.000	0.00	14.09
114.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.238	0.581	0.000	0.00	21.05
114.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.86	1.03	6.238	0.581	0.000	7.08	17.81
114.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.238	0.581	0.000	0.00	70.09
114.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.74	2.09	6.238	0.581	0.000	14.36	89.29
114.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.08	1.30	6.238	0.581	0.000	8.93	127.67
114.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.238	0.581	0.000	0.00	212.23
114.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.238	0.581	0.000	0.00	70.09
116.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.42	1.70	6.269	0.590	0.000	11.72	89.43
116.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.269	0.590	0.000	0.00	14.14
116.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.269	0.590	0.000	0.00	21.11
116.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.86	1.03	6.269	0.590	0.000	7.12	17.86
116.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.269	0.590	0.000	0.00	70.21
116.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.75	2.10	6.269	0.590	0.000	14.45	89.43
116.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.09	1.30	6.269	0.590	0.000	8.99	127.85
116.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.269	0.590	0.000	0.00	212.34
116.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.269	0.590	0.000	0.00	70.21
118.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.42	1.70	6.299	0.599	0.000	11.78	89.56
118.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.299	0.599	0.000	0.00	14.18
118.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.299	0.599	0.000	0.00	21.16
118.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.86	1.03	6.299	0.599	0.000	7.17	17.92
118.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.299	0.599	0.000	0.00	70.33
118.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.75	2.10	6.299	0.599	0.000	14.53	89.56
118.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.09	1.30	6.299	0.599	0.000	9.04	128.04
118.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.299	0.599	0.000	0.00	212.44
118.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.299	0.599	0.000	0.00	70.33
120.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.42	1.70	6.330	0.609	0.000	11.85	89.70
120.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.330	0.609	0.000	0.00	14.23
120.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.330	0.609	0.000	0.00	21.21
120.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.86	1.04	6.330	0.609	0.000	7.22	17.97
120.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.330	0.609	0.000	0.00	70.44
120.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.75	2.10	6.330	0.609	0.000	14.61	89.70
120.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.09	1.31	6.330	0.609	0.000	9.09	128.22

Pole :	302489	Code: ANSI/TIA-222 Rev G			3/27/2012 1:57:41 PM
Location :	Enfd - Enfield, CT	Struct Class : II			Page: 65
Height :	150.0 (ft)	Exposure Category : B			
Base Dia :	37.38 (in)	Topographic Category : 1			
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)			
Shape :	12 Sides				
Taper :	0.156700 (in/ft)				

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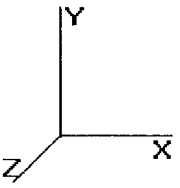

Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 31 Iterations

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

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

120.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.330	0.609	0.000	0.00	212.54
120.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.330	0.609	0.000	0.00	70.44
121.0	(8) 1 5/8" Coax	Yes	1.00	1.200	3.96	0.71	0.85	6.345	0.616	0.000	5.94	44.88
121.0	(1) 10 mm Cable	Yes	1.00	0.000	0.00	0.00	0.00	6.345	0.616	0.000	0.00	7.12
121.0	(2) 19.7 mm Cable	Yes	1.00	0.000	0.00	0.00	0.00	6.345	0.616	0.000	0.00	10.62
121.0	(2) 1/2" Coax	Yes	1.00	1.200	0.63	0.43	0.52	6.345	0.616	0.000	3.62	8.99
121.0	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.345	0.616	0.000	0.00	35.25
121.0	(8) 1 5/8" Coax	Yes	1.00	1.200	5.94	0.87	1.05	6.345	0.616	0.000	7.32	44.88
121.0	(12) 1 5/8" Coax	Yes	1.00	1.200	1.98	0.54	0.65	6.345	0.616	0.000	4.56	64.16
121.0	(4) #20 Dywidag bars	Yes	1.00	0.000	0.00	0.00	0.00	6.345	0.616	0.000	0.00	106.30
121.0	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.345	0.616	0.000	0.00	35.25
122.0	(8) 1 5/8" Coax	Yes	1.00	1.200	3.96	0.71	0.85	6.360	0.621	0.000	5.96	44.92
122.0	(1) 10 mm Cable	Yes	1.00	0.000	0.00	0.00	0.00	6.360	0.621	0.000	0.00	7.14
122.0	(2) 19.7 mm Cable	Yes	1.00	0.000	0.00	0.00	0.00	6.360	0.621	0.000	0.00	10.63
122.0	(2) 1/2" Coax	Yes	1.00	1.200	0.63	0.43	0.52	6.360	0.621	0.000	3.63	9.01
122.0	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.360	0.621	0.000	0.00	35.28
122.0	(8) 1 5/8" Coax	Yes	1.00	1.200	5.94	0.87	1.05	6.360	0.621	0.000	7.34	44.92
122.0	(12) 1 5/8" Coax	Yes	1.00	1.200	1.98	0.54	0.65	6.360	0.621	0.000	4.57	64.20
122.0	(4) #20 Dywidag bars	Yes	1.00	0.000	0.00	0.00	0.00	6.360	0.621	0.000	0.00	106.32
122.0	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.360	0.621	0.000	0.00	35.28
124.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.42	1.71	6.389	0.628	0.000	11.98	89.97
124.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.389	0.628	0.000	0.00	14.31
124.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.389	0.628	0.000	0.00	21.31
124.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.87	1.04	6.389	0.628	0.000	7.30	18.06
124.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.389	0.628	0.000	0.00	70.66
124.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.75	2.10	6.389	0.628	0.000	14.77	89.97
124.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.09	1.31	6.389	0.628	0.000	9.20	128.58
124.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.389	0.628	0.000	0.00	212.74
126.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.42	1.71	6.419	0.639	0.000	12.05	90.10
126.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.419	0.639	0.000	0.00	14.36
126.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.419	0.639	0.000	0.00	21.36
126.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.87	1.04	6.419	0.639	0.000	7.35	18.11
126.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.419	0.639	0.000	0.00	70.77
126.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.75	2.10	6.419	0.639	0.000	14.85	90.10
126.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.09	1.31	6.419	0.639	0.000	9.25	128.76
126.0	(4) #20 Dywidag bars	Yes	1.51	0.000	0.00	0.00	0.00	6.419	0.639	0.000	0.00	160.69
128.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.42	1.71	6.448	0.650	0.000	12.11	90.23
128.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.448	0.650	0.000	0.00	14.40
128.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.448	0.650	0.000	0.00	21.41
128.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.87	1.04	6.448	0.650	0.000	7.39	18.16
128.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.448	0.650	0.000	0.00	70.88
128.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.75	2.10	6.448	0.650	0.000	14.92	90.23
128.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.09	1.31	6.448	0.650	0.000	9.31	128.93
130.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.42	1.71	6.476	0.661	0.000	12.18	90.36
130.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.476	0.661	0.000	0.00	14.44
130.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.476	0.661	0.000	0.00	21.46
130.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.87	1.04	6.476	0.661	0.000	7.43	18.21
130.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.476	0.661	0.000	0.00	70.98
130.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.75	2.11	6.476	0.661	0.000	15.00	90.36
130.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.09	1.31	6.476	0.661	0.000	9.36	129.11
132.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.43	1.71	6.504	0.566	0.000	12.24	90.48
132.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.504	0.566	0.000	0.00	14.48
132.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.504	0.566	0.000	0.00	21.51
132.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.87	1.04	6.504	0.566	0.000	7.48	18.25
132.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.504	0.566	0.000	0.00	71.09
132.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.76	2.11	6.504	0.566	0.000	15.08	90.48
134.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.43	1.71	6.532	0.576	0.000	12.30	90.61

Pole :	302489	Code: ANSI/TIA-222 Rev G			3/27/2012 1:57:42 PM
Location :	Enfd - Enfield, CT	Struct Class : II			Page: 66
Height :	150.0 (ft)	Exposure Category : B			
Base Dia :	37.38 (in)	Topographic Category : 1			
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)			
Shape :	12 Sides				
Taper :	0.156700 (in/ft)				

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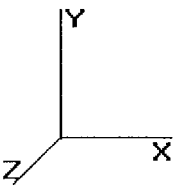

Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 31 Iterations

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

134.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.532	0.576	0.000	0.00	14.52
134.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.532	0.576	0.000	0.00	21.55
134.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.87	1.05	6.532	0.576	0.000	7.52	18.30
134.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.532	0.576	0.000	0.00	71.19
134.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.76	2.11	6.532	0.576	0.000	15.15	90.61
136.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.43	1.71	6.560	0.586	0.000	12.37	90.73
136.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.560	0.586	0.000	0.00	14.57
136.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.560	0.586	0.000	0.00	21.60
136.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.87	1.05	6.560	0.586	0.000	7.56	18.34
136.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.560	0.586	0.000	0.00	71.29
136.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.76	2.11	6.560	0.586	0.000	15.22	90.73
138.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.43	1.72	6.588	0.597	0.000	12.43	90.85
138.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.588	0.597	0.000	0.00	14.61
138.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.588	0.597	0.000	0.00	21.65
138.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.87	1.05	6.588	0.597	0.000	7.60	18.39
138.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.588	0.597	0.000	0.00	71.39
138.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.76	2.11	6.588	0.597	0.000	15.30	90.85
140.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.43	1.72	6.615	0.608	0.000	12.49	90.97
140.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.615	0.608	0.000	0.00	14.64
140.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.615	0.608	0.000	0.00	21.69
140.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.88	1.05	6.615	0.608	0.000	7.64	18.43
140.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.615	0.608	0.000	0.00	71.49
140.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	1.76	2.11	6.615	0.608	0.000	15.37	90.97
142.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.43	1.72	6.642	0.270	0.000	12.55	91.09
142.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.642	0.270	0.000	0.00	14.68
142.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.642	0.270	0.000	0.00	21.74
142.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.88	1.05	6.642	0.270	0.000	7.68	18.47
144.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.43	1.72	6.668	0.275	0.000	12.61	91.20
144.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.668	0.275	0.000	0.00	14.72
144.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.668	0.275	0.000	0.00	21.78
144.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.88	1.05	6.668	0.275	0.000	7.72	18.52
146.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.43	1.72	6.695	0.242	0.000	12.67	91.32
146.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.695	0.242	0.000	0.00	14.76
146.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.695	0.242	0.000	0.00	21.83
148.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.43	1.72	6.721	0.247	0.000	12.73	91.43
148.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.721	0.247	0.000	0.00	14.80
148.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.721	0.247	0.000	0.00	21.87
150.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.44	1.72	6.746	0.252	0.000	12.78	91.54
150.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.746	0.252	0.000	0.00	14.84
150.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.746	0.252	0.000	0.00	21.91
										Totals:	2,473.61	49,025.25

Pole :	302489	Code: ANSI/TIA-222 Rev G	
Location :	Enfd - Enfield, CT	Struct Class : II	3/27/2012 1:57:42 PM
Height :	150.0 (ft)	Exposure Category : B	Page: 67
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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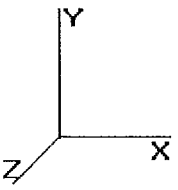

Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 31 Iterations

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

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
Ice Importance Factor : 1.00

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
2.00	61.94	1,254.78	0.00	0.00
4.00	62.66	1,288.46	0.00	0.00
6.00	62.98	1,307.85	0.00	0.00
8.00	63.14	1,321.01	0.00	0.00
10.00	63.20	1,330.61	0.00	0.00
12.00	63.20	1,337.88	0.00	0.00
14.00	63.16	1,343.50	0.00	0.00
16.00	63.09	1,347.89	0.00	0.00
18.00	62.99	1,351.31	0.00	0.00
20.00	62.87	1,353.96	0.00	0.00
22.00	62.74	1,355.98	0.00	0.00
24.00	62.59	1,357.46	0.00	0.00
26.00	62.44	1,358.49	0.00	0.00
28.00	62.27	1,359.12	0.00	0.00
30.00	62.14	1,359.42	0.00	0.00
31.50	47.14	1,019.52	0.00	0.00
32.00	15.89	407.31	0.00	0.00
34.00	64.65	1,629.63	0.00	0.00
35.67	54.46	1,355.79	0.00	0.00
36.00	10.88	218.89	0.00	0.00
38.00	66.31	1,315.53	0.00	0.00
40.00	67.06	1,315.14	0.00	0.00
42.00	67.77	1,314.57	0.00	0.00
44.00	68.44	1,313.83	0.00	0.00
46.00	69.07	1,312.94	0.00	0.00
48.00	69.66	1,311.92	0.00	0.00
50.00	70.22	1,310.76	0.00	0.00
52.00	70.74	1,309.49	0.00	0.00
54.00	71.24	1,308.11	0.00	0.00
56.00	205.18	1,647.82	0.00	0.00
58.00	72.14	1,293.11	0.00	0.00
60.00	72.56	1,291.35	0.00	0.00
62.00	72.95	1,289.52	0.00	0.00
64.00	73.31	1,287.60	0.00	0.00
66.00	73.66	1,285.61	0.00	0.00
68.00	73.98	1,283.55	0.00	0.00
70.00	74.28	1,281.42	0.00	0.00
70.00	0.01	0.21	0.00	0.00
72.00	75.18	1,460.14	0.00	0.00
73.50	56.52	1,092.68	0.00	0.00
74.00	18.81	309.68	0.00	0.00
76.00	75.71	1,238.55	0.00	0.00
78.00	75.94	1,236.71	0.00	0.00
80.00	76.16	1,234.82	0.00	0.00
82.00	76.36	1,232.87	0.00	0.00
84.00	76.55	1,230.88	0.00	0.00
86.00	76.72	1,228.84	0.00	0.00
88.00	76.88	1,226.76	0.00	0.00
90.00	77.02	1,224.63	0.00	0.00

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:42 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 68
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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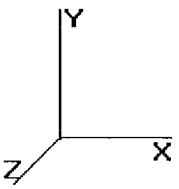

Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 31 Iterations

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

92.00		77.15	1,222.46	0.00	0.00
94.00		77.26	1,220.26	0.00	0.00
96.00		77.37	1,218.02	0.00	0.00
98.00		77.46	1,215.74	0.00	0.00
100.0		77.54	1,213.42	0.00	0.00
102.0		77.60	1,211.07	0.00	0.00
104.0		77.66	1,208.69	0.00	0.00
106.0		77.71	1,206.28	0.00	0.00
108.0		77.74	1,203.83	0.00	0.00
110.0		77.76	1,201.36	0.00	0.00
110.0		0.01	0.20	0.00	0.00
112.0		391.78	2,774.20	0.00	0.00
114.0		77.78	1,090.68	0.00	0.00
116.0		77.78	1,088.50	0.00	0.00
118.0		77.76	1,086.30	0.00	0.00
120.0		77.74	1,084.08	0.00	0.00
121.0		38.80	541.29	0.00	0.00
122.0		190.61	1,668.49	0.00	0.00
124.0		77.66	875.31	0.00	0.00
126.0		77.61	820.77	0.00	0.00
128.0		77.55	657.56	0.00	0.00
130.0		874.25	6,158.23	0.00	0.00
132.0		68.00	523.21	0.00	0.00
134.0		67.87	520.48	0.00	0.00
136.0		67.73	517.74	0.00	0.00
138.0		67.58	514.98	0.00	0.00
140.0		614.64	4,462.79	0.00	0.00
142.0		51.82	346.75	0.00	0.00
144.0		235.19	931.47	0.00	120.99
146.0		43.57	322.16	0.00	0.00
148.0		43.28	319.08	0.00	0.00
150.0		1,088.88	8,795.54	0.00	2,378.70
	Totals:	8,398.03	107,068.8	0.00	2,499.69

Pole :	302489	Code:	ANSI/TIA-222 Rev G		3/27/2012 1:57:42 PM
Location :	Enfd - Enfield, CT	Struct Class :	II		Page: 69
Height :	150.0 (ft)	Exposure Category :	B		
Base Dia :	37.38 (in)	Topographic Category :	1		
Top Dia :	15.00 (in)	Base Elev :	0.000 (ft)		
Shape :	12 Sides				
Taper :	0.156700 (in/ft)				

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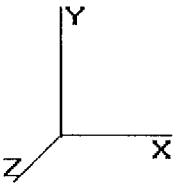

Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 31 Iterations

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	-107.07	-8.44	0.00	-1,009.83	0.00	1,009.83	3,133.66	1,566.83	4,776.46	2,358.91	0.00	0.00	0.286
2.00	-105.80	-8.46	0.00	-992.95	0.00	992.95	3,116.86	1,558.43	4,710.21	2,326.20	0.01	-0.04	0.284
4.00	-104.51	-8.48	0.00	-976.03	0.00	976.03	3,099.89	1,549.95	4,644.15	2,293.57	0.04	-0.09	0.281
6.00	-103.19	-8.49	0.00	-959.07	0.00	959.07	3,082.76	1,541.38	4,578.29	2,261.04	0.09	-0.13	0.279
8.00	-101.87	-8.51	0.00	-942.09	0.00	942.09	3,065.46	1,532.73	4,512.63	2,228.62	0.15	-0.18	0.277
10.00	-100.53	-8.52	0.00	-925.07	0.00	925.07	3,047.99	1,524.00	4,447.17	2,196.29	0.24	-0.22	0.275
12.00	-99.19	-8.53	0.00	-908.03	0.00	908.03	3,030.36	1,515.18	4,381.94	2,164.07	0.34	-0.27	0.272
14.00	-97.84	-8.54	0.00	-890.98	0.00	890.98	3,012.56	1,506.28	4,316.92	2,131.97	0.46	-0.32	0.270
16.00	-96.48	-8.54	0.00	-873.90	0.00	873.90	2,994.60	1,497.30	4,252.13	2,099.97	0.61	-0.36	0.267
18.00	-95.12	-8.55	0.00	-856.82	0.00	856.82	2,976.47	1,488.23	4,187.58	2,068.09	0.77	-0.41	0.265
20.00	-93.76	-8.55	0.00	-839.72	0.00	839.72	2,958.17	1,479.08	4,123.27	2,036.33	0.95	-0.45	0.262
22.00	-92.40	-8.55	0.00	-822.62	0.00	822.62	2,939.70	1,469.85	4,059.20	2,004.69	1.15	-0.50	0.260
24.00	-91.04	-8.55	0.00	-805.52	0.00	805.52	2,921.07	1,460.54	3,995.39	1,973.17	1.37	-0.55	0.257
26.00	-89.67	-8.55	0.00	-788.43	0.00	788.43	2,902.28	1,451.14	3,931.84	1,941.79	1.61	-0.59	0.254
28.00	-88.31	-8.54	0.00	-771.34	0.00	771.34	2,883.31	1,441.66	3,868.56	1,910.53	1.86	-0.64	0.251
30.00	-86.94	-8.52	0.00	-754.26	0.00	754.26	2,864.18	1,432.09	3,805.55	1,879.42	2.14	-0.68	0.248
31.50	-85.92	-8.50	0.00	-741.47	0.00	741.47	2,849.72	1,424.86	3,758.46	1,856.16	2.36	-0.72	0.246
32.00	-85.51	-8.52	0.00	-737.22	0.00	737.22	2,844.89	1,422.44	3,742.82	1,848.44	2.44	-0.73	0.242
34.00	-83.87	-8.50	0.00	-720.18	0.00	720.18	2,819.42	1,409.71	3,672.56	1,813.74	2.76	-0.78	0.240
35.67	-82.52	-8.46	0.00	-706.02	0.00	706.02	2,231.07	1,115.54	2,951.42	1,457.59	3.03	-0.82	0.276
36.00	-82.29	-8.48	0.00	-703.21	0.00	703.21	2,228.86	1,114.43	2,943.66	1,453.76	3.09	-0.82	0.275
38.00	-80.97	-8.47	0.00	-686.24	0.00	686.24	2,215.49	1,107.75	2,897.11	1,430.77	3.45	-0.87	0.271
40.00	-79.65	-8.45	0.00	-669.31	0.00	669.31	2,201.95	1,100.98	2,850.70	1,407.85	3.82	-0.92	0.267
42.00	-78.33	-8.42	0.00	-652.42	0.00	652.42	2,188.25	1,094.13	2,804.43	1,385.00	4.22	-0.97	0.263
44.00	-77.01	-8.40	0.00	-635.57	0.00	635.57	2,174.38	1,087.19	2,758.30	1,362.22	4.64	-1.02	0.259
46.00	-75.69	-8.37	0.00	-618.78	0.00	618.78	2,160.35	1,080.17	2,712.33	1,339.52	5.07	-1.07	0.255
48.00	-74.37	-8.34	0.00	-602.05	0.00	602.05	2,146.14	1,073.07	2,666.52	1,316.89	5.53	-1.11	0.250
50.00	-73.06	-8.30	0.00	-585.38	0.00	585.38	2,131.78	1,065.89	2,620.87	1,294.35	6.01	-1.16	0.246
52.00	-71.74	-8.26	0.00	-568.78	0.00	568.78	2,117.24	1,058.62	2,575.40	1,271.89	6.50	-1.21	0.241
54.00	-70.43	-8.22	0.00	-552.26	0.00	552.26	2,102.54	1,051.27	2,530.10	1,249.52	7.02	-1.26	0.237
56.00	-68.78	-8.04	0.00	-535.81	0.00	535.81	2,087.67	1,043.84	2,484.99	1,227.24	7.56	-1.31	0.232
58.00	-67.48	-7.99	0.00	-519.74	0.00	519.74	2,072.64	1,036.32	2,440.07	1,205.06	8.12	-1.35	0.228
60.00	-66.19	-7.94	0.00	-503.77	0.00	503.77	2,057.44	1,028.72	2,395.35	1,182.97	8.69	-1.40	0.223
62.00	-64.89	-7.89	0.00	-487.89	0.00	487.89	2,042.07	1,021.04	2,350.84	1,160.99	9.29	-1.45	0.219
64.00	-63.60	-7.83	0.00	-472.12	0.00	472.12	2,026.54	1,013.27	2,306.53	1,139.11	9.90	-1.49	0.214
66.00	-62.31	-7.77	0.00	-456.45	0.00	456.45	2,010.84	1,005.42	2,262.45	1,117.34	10.54	-1.54	0.209
68.00	-61.03	-7.71	0.00	-440.91	0.00	440.91	1,994.98	997.49	2,218.59	1,095.68	11.19	-1.58	0.204
70.00	-59.75	-7.63	0.00	-425.48	0.00	425.48	1,978.94	989.47	2,174.96	1,074.13	11.87	-1.63	0.200
70.00	-59.74	-7.65	0.00	-425.48	0.00	425.48	1,978.94	989.47	2,174.95	1,074.12	11.87	-1.63	0.200
72.00	-58.28	-7.57	0.00	-410.19	0.00	410.19	1,958.85	979.43	2,127.34	1,050.61	12.56	-1.67	0.192
73.50	-57.19	-7.50	0.00	-398.83	0.00	398.83	1,462.64	731.32	1,612.09	796.15	13.09	-1.71	0.224
74.00	-56.87	-7.50	0.00	-395.08	0.00	395.08	1,460.13	730.06	1,604.56	792.43	13.27	-1.72	0.222
76.00	-55.63	-7.44	0.00	-380.07	0.00	380.07	1,449.95	724.98	1,574.48	777.57	14.00	-1.76	0.216
78.00	-54.39	-7.36	0.00	-365.20	0.00	365.20	1,439.61	719.81	1,544.48	762.76	14.74	-1.81	0.210
80.00	-53.15	-7.29	0.00	-350.47	0.00	350.47	1,429.11	714.55	1,514.58	747.99	15.51	-1.85	0.203
82.00	-51.92	-7.21	0.00	-335.89	0.00	335.89	1,418.44	709.22	1,484.77	733.27	16.30	-1.90	0.197
84.00	-50.69	-7.13	0.00	-321.47	0.00	321.47	1,407.60	703.80	1,455.07	718.61	17.10	-1.94	0.191
86.00	-49.46	-7.05	0.00	-307.20	0.00	307.20	1,396.60	698.30	1,425.49	704.00	17.92	-1.98	0.184
88.00	-48.23	-6.97	0.00	-293.10	0.00	293.10	1,385.43	692.71	1,396.02	689.44	18.76	-2.02	0.178
90.00	-47.00	-6.88	0.00	-279.17	0.00	279.17	1,374.09	687.04	1,366.68	674.95	19.62	-2.06	0.171
92.00	-45.78	-6.79	0.00	-265.42	0.00	265.42	1,362.59	681.29	1,337.48	660.53	20.49	-2.10	0.165

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:42 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 70
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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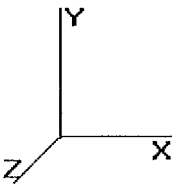

Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 31 Iterations

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

94.00	-44.56	-6.69	0.00	-251.84	0.00	251.84	1,350.92	675.46	1,308.41	646.17	21.38	-2.14	0.158
96.00	-43.34	-6.60	0.00	-238.46	0.00	238.46	1,339.08	669.54	1,279.49	631.89	22.29	-2.18	0.151
98.00	-42.12	-6.50	0.00	-225.26	0.00	225.26	1,327.08	663.54	1,250.72	617.68	23.21	-2.22	0.145
100.00	-40.91	-6.40	0.00	-212.25	0.00	212.25	1,314.91	657.46	1,222.10	603.55	24.15	-2.25	0.138
102.00	-39.70	-6.30	0.00	-199.45	0.00	199.45	1,302.58	651.29	1,193.66	589.50	25.10	-2.29	0.132
104.00	-38.49	-6.20	0.00	-186.84	0.00	186.84	1,290.07	645.04	1,165.38	575.54	26.06	-2.32	0.125
106.00	-37.28	-6.09	0.00	-174.45	0.00	174.45	1,277.41	638.70	1,137.28	561.66	27.04	-2.35	0.118
108.00	-36.08	-5.98	0.00	-162.27	0.00	162.27	1,264.57	632.29	1,109.37	547.87	28.04	-2.38	0.112
110.00	-34.88	-5.86	0.00	-150.31	0.00	150.31	1,247.14	623.57	1,077.81	532.29	29.04	-2.41	0.105
110.00	-34.88	-5.87	0.00	-150.31	0.00	150.31	1,247.13	623.57	1,077.80	532.29	29.04	-2.41	0.105
110.00	-34.88	-5.87	0.00	-150.31	0.00	150.31	846.54	423.27	735.96	363.46	29.04	-2.41	0.128
112.00	-32.12	-5.38	0.00	-138.56	0.00	138.56	839.47	419.74	718.87	355.02	30.06	-2.44	0.118
114.00	-31.04	-5.27	0.00	-127.81	0.00	127.81	832.23	416.12	701.82	346.60	31.09	-2.47	0.110
116.00	-29.95	-5.16	0.00	-117.27	0.00	117.27	824.82	412.41	684.82	338.21	32.13	-2.50	0.103
118.00	-28.86	-5.05	0.00	-106.95	0.00	106.95	817.25	408.63	667.88	329.84	33.18	-2.52	0.095
120.00	-27.78	-4.93	0.00	-96.86	0.00	96.86	809.51	404.76	651.00	321.50	34.24	-2.55	0.087
121.00	-27.24	-4.87	0.00	-91.93	0.00	91.93	805.58	402.79	642.58	317.35	34.78	-2.56	0.084
121.00	-27.24	-4.87	0.00	-91.93	0.00	91.93	805.58	402.79	642.58	317.35	34.78	-2.56	0.324
122.00	-25.58	-4.63	0.00	-87.06	0.00	87.06	801.61	400.80	634.19	313.20	35.32	-2.57	0.310
124.00	-24.70	-4.55	0.00	-77.80	0.00	77.80	793.54	396.77	617.45	304.94	36.41	-2.66	0.286
126.00	-23.88	-4.46	0.00	-68.71	0.00	68.71	785.30	392.65	600.81	296.72	37.54	-2.74	0.262
128.00	-23.22	-4.38	0.00	-59.79	0.00	59.79	776.89	388.45	584.25	288.54	38.71	-2.81	0.237
130.00	-17.11	-3.22	0.00	-51.02	0.00	51.02	768.32	384.16	567.78	280.41	39.90	-2.88	0.204
132.00	-16.59	-3.14	0.00	-44.58	0.00	44.58	759.59	379.79	551.42	272.33	41.12	-2.94	0.186
134.00	-16.07	-3.06	0.00	-38.29	0.00	38.29	750.68	375.34	535.17	264.30	42.36	-3.00	0.166
136.00	-15.56	-2.98	0.00	-32.16	0.00	32.16	741.61	370.81	519.04	256.33	43.63	-3.05	0.147
138.00	-15.04	-2.90	0.00	-26.20	0.00	26.20	732.38	366.19	503.02	248.42	44.91	-3.09	0.126
140.00	-10.62	-2.05	0.00	-20.40	0.00	20.40	722.98	361.49	487.14	240.58	46.22	-3.13	0.100
142.00	-10.27	-1.98	0.00	-16.31	0.00	16.31	713.41	356.70	471.39	232.80	47.53	-3.16	0.084
144.00	-9.36	-1.70	0.00	-12.22	0.00	12.22	701.03	350.52	454.07	224.25	48.86	-3.18	0.068
146.00	-9.04	-1.64	0.00	-8.82	0.00	8.82	687.09	343.54	436.08	215.36	50.20	-3.20	0.054
148.00	-8.72	-1.58	0.00	-5.54	0.00	5.54	673.14	336.57	418.45	206.66	51.54	-3.22	0.040
150.00	0.00	-1.09	0.00	-2.38	0.00	2.38	659.19	329.60	401.19	198.13	52.89	-3.23	0.012

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:42 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 71
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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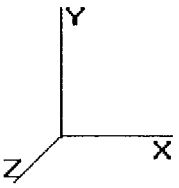

Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

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

Wind Importance 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)	Aa (sf)	CfAa (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
2.00		1.00	0.70	6.129	6.742	160.53		1.200	* 0.000	2.00	6.423	7.71	52.0	0.0	436.4
4.00		1.00	0.70	6.129	6.742	159.17		1.200	* 0.000	2.00	6.369	7.64	51.5	0.0	433.8
6.00		1.00	0.70	6.129	6.742	157.81		1.200	* 0.000	2.00	6.315	7.58	51.1	0.0	431.3
8.00		1.00	0.70	6.129	6.742	156.45		1.200	* 0.000	2.00	6.261	7.51	50.6	0.0	428.7
10.00		1.00	0.70	6.129	6.742	155.10		1.200	* 0.000	2.00	6.206	7.45	50.2	0.0	426.1
12.00		1.00	0.70	6.129	6.742	153.74		1.200	* 0.000	2.00	6.152	7.38	49.8	0.0	423.5
14.00		1.00	0.70	6.129	6.742	152.38		1.200	* 0.000	2.00	6.098	7.32	49.3	0.0	421.0
16.00		1.00	0.70	6.129	6.742	151.03		1.200	* 0.000	2.00	6.044	7.25	48.9	0.0	418.4
18.00		1.00	0.70	6.129	6.742	149.67		1.200	* 0.000	2.00	5.990	7.19	48.5	0.0	415.8
20.00		1.00	0.70	6.129	6.742	148.31		1.200	* 0.000	2.00	5.936	7.12	48.0	0.0	413.2
22.00		1.00	0.70	6.129	6.742	146.95		1.200	* 0.000	2.00	5.882	7.06	47.6	0.0	410.7
24.00		1.00	0.70	6.129	6.742	145.60		1.200	* 0.000	2.00	5.828	6.99	47.1	0.0	408.1
26.00		1.00	0.70	6.129	6.742	144.24		1.200	* 0.000	2.00	5.774	6.93	46.7	0.0	405.5
28.00		1.00	0.70	6.129	6.742	142.88		1.200	* 0.000	2.00	5.720	6.86	46.3	0.0	402.9
30.00		1.00	0.70	6.134	6.747	141.58		1.200	* 0.000	2.00	5.666	6.80	45.9	0.0	400.4
31.50	Bot - Section 2	1.00	0.71	6.220	6.842	141.55		1.200	* 0.000	1.50	4.215	5.06	34.6	0.0	298.6
32.00		1.00	0.71	6.248	6.873	141.52		1.200	* 0.000	0.50	1.424	1.71	11.7	0.0	155.1
34.00		1.00	0.72	6.357	6.993	141.37		1.200	* 0.000	2.00	5.665	6.80	47.5	0.0	617.9
35.67	Top - Section 1	1.00	0.73	6.445	7.089	141.18		1.200	* 0.000	1.67	4.681	5.62	39.8	0.0	511.4
36.00		1.00	0.73	6.462	7.108	143.92		1.200	* 0.000	0.33	0.931	1.12	7.9	0.0	58.8
38.00		1.00	0.75	6.562	7.219	143.63		1.200	* 0.000	2.00	5.557	6.67	48.1	0.0	352.0
40.00		1.00	0.76	6.659	7.325	143.27		1.200	* 0.000	2.00	5.503	6.60	48.4	0.0	349.9
42.00		1.00	0.77	6.753	7.428	142.85		1.200	* 0.000	2.00	5.449	6.54	48.6	0.0	347.7
44.00		1.00	0.78	6.843	7.527	142.37		1.200	* 0.000	2.00	5.395	6.47	48.7	0.0	345.6
46.00		1.00	0.79	6.931	7.624	141.83		1.200	* 0.000	2.00	5.341	6.41	48.9	0.0	343.4
48.00		1.00	0.80	7.015	7.717	141.24		1.200	* 0.000	2.00	5.287	6.34	49.0	0.0	341.3
50.00		1.00	0.81	7.098	7.807	140.61		1.200	* 0.000	2.00	5.233	6.28	49.0	0.0	339.1
52.00		1.00	0.82	7.178	7.895	139.93		1.200	* 0.000	2.00	5.179	6.21	49.1	0.0	337.0
54.00		1.00	0.82	7.255	7.981	139.21		1.200	* 0.000	2.00	5.125	6.15	49.1	0.0	334.8
56.00	Appertunance(s)	1.00	0.83	7.331	8.064	138.45		1.200	* 0.000	2.00	5.071	6.08	49.1	0.0	332.7
58.00		1.00	0.84	7.405	8.146	137.65		1.200	* 0.000	2.00	5.016	6.02	49.0	0.0	330.6
60.00		1.00	0.85	7.477	8.225	136.82		1.200	* 0.000	2.00	4.962	5.95	49.0	0.0	328.4
62.00		1.00	0.86	7.548	8.302	135.96		1.200	* 0.000	2.00	4.908	5.89	48.9	0.0	326.3
64.00		1.00	0.87	7.616	8.378	135.06		1.200	* 0.000	2.00	4.854	5.83	48.8	0.0	324.1
66.00		1.00	0.87	7.684	8.452	134.14		1.200	* 0.000	2.00	4.800	5.76	48.7	0.0	322.0
68.00		1.00	0.88	7.749	8.524	133.19		1.200	* 0.000	2.00	4.746	5.70	48.5	0.0	319.8
70.00		1.00	0.89	7.814	8.595	132.21		1.200	* 0.000	2.00	4.692	5.63	48.4	0.0	317.7
70.00	Bot - Section 3	1.00	0.89	7.814	8.595	132.21		1.200	* 0.000	0.00	0.001	0.00	0.0	0.0	0.1
72.00		1.00	0.90	7.877	8.665	131.20		1.200	* 0.000	2.00	4.723	5.67	49.1	0.0	464.1
73.50	Top - Section 2	1.00	0.90	7.924	8.716	130.43		1.200	* 0.000	1.50	3.508	4.21	36.7	0.0	345.7
74.00		1.00	0.90	7.939	8.733	132.64		1.200	* 0.000	0.50	1.162	1.39	12.2	0.0	69.9
76.00		1.00	0.91	8.000	8.800	131.59		1.200	* 0.000	2.00	4.616	5.54	48.7	0.0	278.8
78.00		1.00	0.92	8.059	8.865	130.52		1.200	* 0.000	2.00	4.562	5.47	48.5	0.0	277.1
80.00		1.00	0.92	8.118	8.930	129.43		1.200	* 0.000	2.00	4.508	5.41	48.3	0.0	275.4
82.00		1.00	0.93	8.175	8.993	128.32		1.200	* 0.000	2.00	4.454	5.34	48.1	0.0	273.6
84.00		1.00	0.94	8.232	9.055	127.19		1.200	* 0.000	2.00	4.400	5.28	47.8	0.0	271.9
86.00		1.00	0.94	8.287	9.116	126.04		1.200	* 0.000	2.00	4.346	5.21	47.5	0.0	270.2
88.00		1.00	0.95	8.342	9.176	124.88		1.200	* 0.000	2.00	4.292	5.15	47.3	0.0	268.5
90.00		1.00	0.95	8.396	9.235	123.69		1.200	* 0.000	2.00	4.238	5.09	47.0	0.0	266.8
92.00		1.00	0.96	8.448	9.293	122.48		1.200	* 0.000	2.00	4.183	5.02	46.7	0.0	265.1

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:42 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 72
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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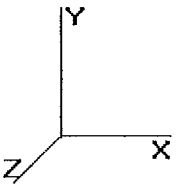

Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

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

Wind Importance Factor : 1.00

94.00		1.00	0.97	8.501	9.351	121.26	1.200	* 0.000	2.00	4.129	4.96	46.3	0.0	263.3
96.00		1.00	0.97	8.552	9.407	120.02	1.200	* 0.000	2.00	4.075	4.89	46.0	0.0	261.6
98.00		1.00	0.98	8.602	9.463	118.77	1.200	* 0.000	2.00	4.021	4.83	45.7	0.0	259.9
100.0		1.00	0.98	8.652	9.517	117.50	1.200	* 0.000	2.00	3.967	4.76	45.3	0.0	258.2
102.0		1.00	0.99	8.701	9.571	116.22	1.200	* 0.000	2.00	3.913	4.70	44.9	0.0	256.5
104.0		1.00	0.99	8.750	9.625	114.92	1.200	* 0.000	2.00	3.859	4.63	44.6	0.0	254.8
106.0		1.00	1.00	8.797	9.677	113.60	1.200	* 0.000	2.00	3.805	4.57	44.2	0.0	253.0
108.0		1.00	1.01	8.845	9.729	112.28	1.200	* 0.000	2.00	3.751	4.50	43.8	0.0	251.3
110.0		1.00	1.01	8.891	9.780	110.94	1.200	* 0.000	2.00	3.697	4.44	43.4	0.0	249.6
110.0	Top - Section 3	1.00	1.01	8.891	9.780	110.94	1.200	* 0.000	0.00	0.001	0.00	0.0	0.0	0.0
112.0	Appertunance(s)	1.00	1.02	8.937	9.831	109.58	1.200	* 0.000	2.00	3.642	4.37	43.0	0.0	219.5
114.0		1.00	1.02	8.982	9.880	108.22	1.200	* 0.000	2.00	3.589	4.31	42.5	0.0	218.3
116.0		1.00	1.03	9.027	9.930	106.84	1.200	* 0.000	2.00	3.535	4.24	42.1	0.0	217.0
118.0		1.00	1.03	9.071	9.978	105.45	1.200	* 0.000	2.00	3.480	4.18	41.7	0.0	215.7
120.0		1.00	1.04	9.115	10.02	104.05	1.200	* 0.000	2.00	3.426	4.11	41.2	0.0	214.4
121.0	Reinf. Top	1.00	1.04	9.136	10.05	103.34	1.200	* 0.000	1.00	1.693	2.03	20.4	0.0	106.7
122.0	Appertunance(s)	1.00	1.04	9.158	10.07	102.64	1.200	* 0.000	1.00	1.679	2.02	20.3	0.0	39.6
124.0		1.00	1.05	9.201	10.12	101.21	1.200	* 0.000	2.00	3.318	3.98	40.3	0.0	78.2
126.0		1.00	1.05	9.243	10.16	99.780	1.200	* 0.000	2.00	3.264	3.92	39.8	0.0	77.0
128.0		1.00	1.06	9.284	10.21	98.335	1.200	* 0.000	2.00	3.210	3.85	39.3	0.0	75.7
130.0	Appertunance(s)	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
132.0		1.00	1.07	9.366	10.30	95.412	1.200	* 0.000	2.00	3.102	3.72	38.4	0.0	73.1
134.0		1.00	1.07	9.407	10.34	93.936	1.200	* 0.000	2.00	3.048	3.66	37.8	0.0	71.8
136.0		1.00	1.07	9.447	10.39	92.449	1.200	* 0.000	2.00	2.994	3.59	37.3	0.0	70.5
138.0		1.00	1.08	9.486	10.43	90.954	1.200	* 0.000	2.00	2.940	3.53	36.8	0.0	69.2
140.0	Appertunance(s)	1.00	1.08	9.525	10.47	89.449	1.200	* 0.000	2.00	2.886	3.46	36.3	0.0	67.9
142.0		1.00	1.09	9.564	10.52	87.935	1.200	* 0.000	2.00	2.832	3.40	35.7	0.0	66.7
144.0	Appertunance(s)	1.00	1.09	9.602	10.56	86.412	1.200	* 0.000	2.00	2.777	3.33	35.2	0.0	65.4
146.0		1.00	1.10	9.640	10.60	84.880	1.200	* 0.000	2.00	2.723	3.27	34.7	0.0	64.1
148.0		1.00	1.10	9.678	10.64	83.339	1.200	* 0.000	2.00	2.669	3.20	34.1	0.0	62.8
150.0	Appertunance(s)	1.00	1.11	9.715	10.68	81.790	1.200	* 0.000	2.00	2.615	3.14	33.5	0.0	61.5
* = Cf Adjusted By Linear Load Ra Effect							Totals:		150.00			3,405.8	0.0	21,454.9

Pole : 302489
Location : Enfd - Enfield, 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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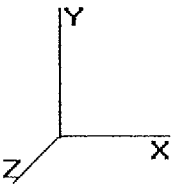


Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

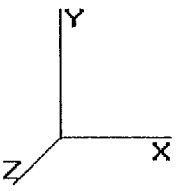
Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.00

Discrete Appurtenance Segment Forces (Factored)

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Ka	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
56.00	Channel Master Type	1	7.331	8.064	1.00	1.00	20.19	0.000	0.000	162.82	0.00	0.00	126.00
112.0	24" x 24" Junction	1	8.937	9.831	0.80	0.80	3.84	0.000	0.000	37.75	0.00	0.00	20.00
112.0	Argus LLPX310R	3	8.937	9.831	0.58	0.80	7.52	0.000	0.000	73.89	0.00	0.00	16.08
112.0	Collar	1	8.937	9.831	1.00	1.00	8.50	0.000	0.000	83.56	0.00	0.00	40.00
112.0	DragonWave A-ANT-	2	8.937	9.831	0.72	0.80	6.75	0.000	0.000	66.39	0.00	0.00	54.00
112.0	DragonWave Horizon	2	8.937	9.831	0.40	0.80	0.34	0.000	0.000	3.38	0.00	0.00	21.20
112.0	NextNet BTS-2500	3	8.937	9.831	0.54	0.80	2.93	0.000	0.000	28.77	0.00	0.00	105.00
122.0	Flush Mounts	1	9.158	10.074	1.00	1.00	3.50	0.000	0.000	35.26	0.00	0.00	200.00
122.0	RFS APXV18-206517S-	3	9.158	10.074	0.64	0.80	9.93	0.000	0.000	100.00	0.00	0.00	79.20
130.0	Antel BXA-171085-12C	3	9.326	10.258	0.58	0.80	8.28	0.000	0.000	84.91	0.00	0.00	45.00
130.0	Antel BXA-70063-4CF-	3	9.326	10.258	0.62	0.80	8.70	0.000	0.000	89.29	0.00	0.00	29.70
130.0	Antel LPA-80080/6CF	6	9.326	10.258	1.20	0.80	31.10	0.000	0.000	319.07	0.00	0.00	126.00
130.0	RFS FD9R6004/2C-3L	6	9.326	10.258	0.40	0.80	0.89	0.000	0.000	9.11	0.00	0.00	15.60
130.0	Round Low Profile Pl	1	9.326	10.258	1.00	1.00	21.70	0.000	0.000	222.60	0.00	0.00	1,500.00
140.0	Andrew Dual Duplex T	6	9.525	10.478	0.40	0.80	1.61	0.000	0.000	16.85	0.00	0.00	66.00
140.0	EMS RR90-17-02DP	3	9.525	10.478	0.51	0.80	6.70	0.000	0.000	70.17	0.00	0.00	54.00
140.0	Flat Low Profile Pla	1	9.525	10.478	1.00	1.00	26.10	0.000	0.000	273.47	0.00	0.00	1,500.00
140.0	RFS APX16DWV-	3	9.525	10.478	0.53	0.80	9.63	0.000	0.000	100.91	0.00	0.00	118.80
144.0	Diamond X50A	2	9.655	10.621	1.00	1.00	2.24	0.000	2.800	23.79	0.00	66.61	4.60
144.0	Flat Side Arm	2	9.602	10.562	1.00	1.00	12.60	0.000	0.000	133.09	0.00	0.00	300.00
150.0	ADC DD1900	6	9.806	10.787	0.38	0.75	2.88	0.000	5.000	31.07	0.00	155.33	72.60
150.0	Allgon 7770.00	6	9.806	10.787	0.49	0.75	16.12	0.000	5.000	173.85	0.00	869.25	210.00
150.0	Andrew SBNH-	1	9.806	10.787	0.56	0.75	6.44	0.000	5.000	69.47	0.00	347.37	66.10
150.0	Decibel DB809KE-SY	1	9.818	10.800	1.00	1.00	3.40	0.000	5.667	36.72	0.00	208.08	26.00
150.0	Ericsson RRUS 11	6	9.752	10.727	0.50	1.00	8.82	0.000	2.000	94.61	0.00	189.22	330.00
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 P65-17-	2	9.806	10.787	0.64	0.75	14.62	0.000	5.000	157.75	0.00	788.75	118.00
150.0	Raycap DC6-48-60-18-	1	9.752	10.727	1.00	1.00	1.47	0.000	2.000	15.77	0.00	31.54	31.80
										2,967.41			7,275.68

Pole : 302489	Code: ANSI/TIA-222 Rev G		3/27/2012 1:57:42 PM
Location : Enfd - Enfield, CT	Struct Class : II		Page: 74
Height : 150.0 (ft)	Exposure Category : B		
Base Dia : 37.38 (in)	Topographic Category : 1		
Top Dia : 15.00 (in)	Base Elev : 0.000 (ft)		
Shape : 12 Sides			
Taper : 0.156700 (in/ft)	Copyright © 2007 - 2011 by American Tower Corporation. All rights reserved.		



Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 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)
2.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.129	0.325	0.000	5.34	13.12
2.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.325	0.000	0.00	0.14
2.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.325	0.000	0.00	2.36
2.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.129	0.325	0.000	0.85	0.60
2.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.325	0.000	0.00	9.84
2.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.129	0.325	0.000	8.01	13.12
2.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.129	0.325	0.000	2.67	19.68
2.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.325	0.000	0.00	133.60
2.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.325	0.000	0.00	9.84
2.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.325	0.000	0.00	1.20
2.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.325	0.000	0.00	14.60
2.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.325	0.000	0.00	0.06
4.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.129	0.327	0.000	5.34	13.12
4.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.327	0.000	0.00	0.14
4.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.327	0.000	0.00	2.36
4.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.129	0.327	0.000	0.85	0.60
4.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.327	0.000	0.00	9.84
4.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.129	0.327	0.000	8.01	13.12
4.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.129	0.327	0.000	2.67	19.68
4.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.327	0.000	0.00	133.60
4.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.327	0.000	0.00	9.84
4.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.327	0.000	0.00	1.20
4.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.327	0.000	0.00	14.60
4.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.327	0.000	0.00	0.06
6.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.129	0.330	0.000	5.34	13.12
6.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.330	0.000	0.00	0.14
6.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.330	0.000	0.00	2.36
6.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.129	0.330	0.000	0.85	0.60
6.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.330	0.000	0.00	9.84
6.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.129	0.330	0.000	8.01	13.12
6.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.129	0.330	0.000	2.67	19.68
6.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.330	0.000	0.00	133.60
6.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.330	0.000	0.00	9.84
6.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.330	0.000	0.00	1.20
6.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.330	0.000	0.00	14.60
6.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.330	0.000	0.00	0.06
8.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.129	0.333	0.000	5.34	13.12
8.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.333	0.000	0.00	0.14
8.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.333	0.000	0.00	2.36
8.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.129	0.333	0.000	0.85	0.60
8.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.333	0.000	0.00	9.84
8.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.129	0.333	0.000	8.01	13.12
8.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.129	0.333	0.000	2.67	19.68
8.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.333	0.000	0.00	133.60
8.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.333	0.000	0.00	9.84
8.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.333	0.000	0.00	1.20
8.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.333	0.000	0.00	14.60
8.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.333	0.000	0.00	0.06
10.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.129	0.336	0.000	5.34	13.12
10.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.336	0.000	0.00	0.14
10.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.336	0.000	0.00	2.36

Pole :	302489			Code: ANSI/TIA-222 Rev G						3/27/2012 1:57:43 PM	
Location :	Enfd - Enfield, CT			Struct Class : II						Page: 75	
Height :	150.0 (ft)			Exposure Category : B							
Base Dia :	37.38 (in)			Topographic Category : 1							
Top Dia :	15.00 (in)			Base Elev : 0.000 (ft)							
Shape :	12 Sides										
Taper :	0.156700 (in/ft)										

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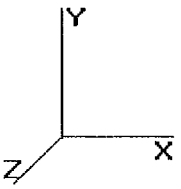

Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

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

Wind Importance Factor : 1.00

10.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.129	0.336	0.000	0.85	0.60
10.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.336	0.000	0.00	9.84
10.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.129	0.336	0.000	8.01	13.12
10.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.129	0.336	0.000	2.67	19.68
10.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.336	0.000	0.00	133.60
10.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.336	0.000	0.00	9.84
10.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.336	0.000	0.00	1.20
10.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.336	0.000	0.00	14.60
10.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.336	0.000	0.00	0.06
12.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.129	0.339	0.000	5.34	13.12
12.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.339	0.000	0.00	0.14
12.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.339	0.000	0.00	2.36
12.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.129	0.339	0.000	0.85	0.60
12.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.339	0.000	0.00	9.84
12.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.129	0.339	0.000	8.01	13.12
12.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.129	0.339	0.000	2.67	19.68
12.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.339	0.000	0.00	133.60
12.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.339	0.000	0.00	9.84
12.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.339	0.000	0.00	1.20
12.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.339	0.000	0.00	14.60
12.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.339	0.000	0.00	0.06
14.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.129	0.342	0.000	5.34	13.12
14.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.342	0.000	0.00	0.14
14.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.342	0.000	0.00	2.36
14.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.129	0.342	0.000	0.85	0.60
14.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.342	0.000	0.00	9.84
14.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.129	0.342	0.000	8.01	13.12
14.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.129	0.342	0.000	2.67	19.68
14.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.342	0.000	0.00	133.60
14.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.342	0.000	0.00	9.84
14.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.342	0.000	0.00	1.20
14.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.342	0.000	0.00	14.60
14.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.342	0.000	0.00	0.06
16.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.129	0.345	0.000	5.34	13.12
16.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.345	0.000	0.00	0.14
16.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.345	0.000	0.00	2.36
16.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.129	0.345	0.000	0.85	0.60
16.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.345	0.000	0.00	9.84
16.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.129	0.345	0.000	8.01	13.12
16.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.129	0.345	0.000	2.67	19.68
16.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.345	0.000	0.00	133.60
16.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.345	0.000	0.00	9.84
16.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.345	0.000	0.00	1.20
16.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.345	0.000	0.00	14.60
16.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.345	0.000	0.00	0.06
18.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.129	0.348	0.000	5.34	13.12
18.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.348	0.000	0.00	0.14
18.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.348	0.000	0.00	2.36
18.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.129	0.348	0.000	0.85	0.60
18.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.348	0.000	0.00	9.84
18.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.129	0.348	0.000	8.01	13.12
18.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.129	0.348	0.000	2.67	19.68
18.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.348	0.000	0.00	133.60
18.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.348	0.000	0.00	9.84
18.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.348	0.000	0.00	1.20
18.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.348	0.000	0.00	14.60
18.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.348	0.000	0.00	0.06

Pole :	302489			Code: ANSI/TIA-222 Rev G						3/27/2012 1:57:43 PM	
Location :	Enfd - Enfield, CT			Struct Class : II						Page: 76	
Height :	150.0 (ft)			Exposure Category : B							
Base Dia :	37.38 (in)			Topographic Category : 1							
Top Dia :	15.00 (in)			Base Elev : 0.000 (ft)							
Shape :	12 Sides										
Taper :	0.156700 (in/ft)										

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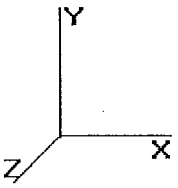

Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

20.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.129	0.351	0.000	5.34	13.12
20.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.351	0.000	0.00	0.14
20.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.351	0.000	0.00	2.36
20.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.129	0.351	0.000	0.85	0.60
20.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.351	0.000	0.00	9.84
20.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.129	0.351	0.000	8.01	13.12
20.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.129	0.351	0.000	2.67	19.68
20.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.351	0.000	0.00	133.60
20.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.351	0.000	0.00	9.84
20.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.351	0.000	0.00	1.20
20.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.351	0.000	0.00	14.60
20.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.351	0.000	0.00	0.06
22.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.129	0.354	0.000	5.34	13.12
22.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.354	0.000	0.00	0.14
22.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.354	0.000	0.00	2.36
22.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.129	0.354	0.000	0.85	0.60
22.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.354	0.000	0.00	9.84
22.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.129	0.354	0.000	8.01	13.12
22.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.129	0.354	0.000	2.67	19.68
22.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.354	0.000	0.00	133.60
22.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.354	0.000	0.00	9.84
22.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.354	0.000	0.00	1.20
22.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.354	0.000	0.00	14.60
22.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.354	0.000	0.00	0.06
24.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.129	0.358	0.000	5.34	13.12
24.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.358	0.000	0.00	0.14
24.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.358	0.000	0.00	2.36
24.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.129	0.358	0.000	0.85	0.60
24.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.358	0.000	0.00	9.84
24.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.129	0.358	0.000	8.01	13.12
24.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.129	0.358	0.000	2.67	19.68
24.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.358	0.000	0.00	133.60
24.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.358	0.000	0.00	9.84
24.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.358	0.000	0.00	1.20
24.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.358	0.000	0.00	14.60
24.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.358	0.000	0.00	0.06
26.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.129	0.361	0.000	5.34	13.12
26.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.361	0.000	0.00	0.14
26.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.361	0.000	0.00	2.36
26.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.129	0.361	0.000	0.85	0.60
26.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.361	0.000	0.00	9.84
26.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.129	0.361	0.000	8.01	13.12
26.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.129	0.361	0.000	2.67	19.68
26.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.361	0.000	0.00	133.60
26.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.361	0.000	0.00	9.84
26.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.361	0.000	0.00	1.20
26.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.361	0.000	0.00	14.60
26.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.361	0.000	0.00	0.06
28.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.129	0.365	0.000	5.34	13.12
28.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.365	0.000	0.00	0.14
28.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.365	0.000	0.00	2.36
28.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.129	0.365	0.000	0.85	0.60
28.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.365	0.000	0.00	9.84
28.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.129	0.365	0.000	8.01	13.12
28.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.129	0.365	0.000	2.67	19.68
28.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.365	0.000	0.00	133.60
28.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.365	0.000	0.00	9.84

Pole :	302489				Code: ANSI/TIA-222 Rev G						3/27/2012 1:57:43 PM	
Location :	Enfd - Enfield, CT				Struct Class : II						Page: 77	
Height :	150.0 (ft)				Exposure Category : B							
Base Dia :	37.38 (in)				Topographic Category : 1							
Top Dia :	15.00 (in)				Base Elev : 0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156700 (in/ft)											

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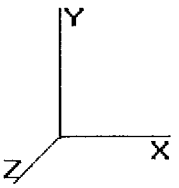


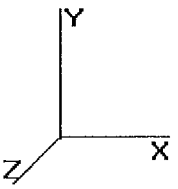
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

28.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.365	0.000	0.00	1.20
28.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.365	0.000	0.00	14.60
28.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.129	0.365	0.000	0.00	0.06
30.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.134	0.368	0.000	5.34	13.12
30.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.134	0.368	0.000	0.00	0.14
30.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.134	0.368	0.000	0.00	2.36
30.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.134	0.368	0.000	0.85	0.60
30.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.134	0.368	0.000	0.00	9.84
30.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.134	0.368	0.000	8.02	13.12
30.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.134	0.368	0.000	2.67	19.68
30.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.134	0.368	0.000	0.00	133.60
30.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.134	0.368	0.000	0.00	9.84
30.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.134	0.368	0.000	0.00	1.20
30.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.134	0.368	0.000	0.00	14.60
30.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.134	0.368	0.000	0.00	0.06
31.50	(8) 1 5/8" Coax	Yes	1.50	1.200	3.96	0.50	0.59	6.220	0.371	0.000	4.07	9.84
31.50	(1) 10 mm Cable	Yes	1.50	0.000	0.00	0.00	0.00	6.220	0.371	0.000	0.00	0.11
31.50	(2) 19.7 mm Cable	Yes	1.50	0.000	0.00	0.00	0.00	6.220	0.371	0.000	0.00	1.77
31.50	(2) 1/2" Coax	Yes	1.50	1.200	0.63	0.08	0.09	6.220	0.371	0.000	0.65	0.45
31.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	6.220	0.371	0.000	0.00	7.38
31.50	(8) 1 5/8" Coax	Yes	1.50	1.200	5.94	0.74	0.89	6.220	0.371	0.000	6.10	9.84
31.50	(12) 1 5/8" Coax	Yes	1.50	1.200	1.98	0.25	0.30	6.220	0.371	0.000	2.03	14.76
31.50	(4) #20 Dywidag bars	Yes	1.50	0.000	0.00	0.00	0.00	6.220	0.371	0.000	0.00	100.22
31.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	6.220	0.371	0.000	0.00	7.38
31.50	(4) 1/2" Coax	Yes	1.50	0.000	0.00	0.00	0.00	6.220	0.371	0.000	0.00	0.90
31.50	(2) 2" Cond.	Yes	1.50	0.000	0.00	0.00	0.00	6.220	0.371	0.000	0.00	10.95
31.50	(1) RG6	Yes	1.50	0.000	0.00	0.00	0.00	6.220	0.371	0.000	0.00	0.04
32.00	(8) 1 5/8" Coax	Yes	0.50	1.200	3.96	0.16	0.20	6.248	0.373	0.000	1.36	3.28
32.00	(1) 10 mm Cable	Yes	0.50	0.000	0.00	0.00	0.00	6.248	0.373	0.000	0.00	0.03
32.00	(2) 19.7 mm Cable	Yes	0.50	0.000	0.00	0.00	0.00	6.248	0.373	0.000	0.00	0.59
32.00	(2) 1/2" Coax	Yes	0.50	1.200	0.63	0.03	0.03	6.248	0.373	0.000	0.22	0.15
32.00	(6) 1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	6.248	0.373	0.000	0.00	2.46
32.00	(8) 1 5/8" Coax	Yes	0.50	1.200	5.94	0.25	0.30	6.248	0.373	0.000	2.04	3.28
32.00	(12) 1 5/8" Coax	Yes	0.50	1.200	1.98	0.08	0.10	6.248	0.373	0.000	0.68	4.92
32.00	(4) #20 Dywidag bars	Yes	0.50	0.000	0.00	0.00	0.00	6.248	0.373	0.000	0.00	33.38
32.00	(6) 1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	6.248	0.373	0.000	0.00	2.46
32.00	(4) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	6.248	0.373	0.000	0.00	0.30
32.00	(2) 2" Cond.	Yes	0.50	0.000	0.00	0.00	0.00	6.248	0.373	0.000	0.00	3.65
32.00	(1) RG6	Yes	0.50	0.000	0.00	0.00	0.00	6.248	0.373	0.000	0.00	0.01
34.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.357	0.375	0.000	5.54	13.12
34.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.357	0.375	0.000	0.00	0.14
34.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.357	0.375	0.000	0.00	2.36
34.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.357	0.375	0.000	0.88	0.60
34.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.357	0.375	0.000	0.00	9.84
34.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.357	0.375	0.000	8.31	13.12
34.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.357	0.375	0.000	2.77	19.68
34.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.357	0.375	0.000	0.00	133.60
34.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.357	0.375	0.000	0.00	9.84
34.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.357	0.375	0.000	0.00	1.20
34.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.357	0.375	0.000	0.00	14.60
34.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.357	0.375	0.000	0.00	0.06
35.67	(8) 1 5/8" Coax	Yes	1.67	1.200	3.96	0.55	0.66	6.445	0.379	0.000	4.68	10.93
35.67	(1) 10 mm Cable	Yes	1.67	0.000	0.00	0.00	0.00	6.445	0.379	0.000	0.00	0.12
35.67	(2) 19.7 mm Cable	Yes	1.67	0.000	0.00	0.00	0.00	6.445	0.379	0.000	0.00	1.97
35.67	(2) 1/2" Coax	Yes	1.67	1.200	0.63	0.09	0.11	6.445	0.379	0.000	0.74	0.50
35.67	(6) 1 5/8" Coax	Yes	1.67	0.000	0.00	0.00	0.00	6.445	0.379	0.000	0.00	8.20
35.67	(8) 1 5/8" Coax	Yes	1.67	1.200	5.94	0.83	0.99	6.445	0.379	0.000	7.02	10.93



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Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

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

Wind Importance Factor : 1.00

35.67	(12) 1 5/8" Coax	Yes	1.67	1.200	1.98	0.28	0.33	6.445	0.379	0.000	2.34	16.40
35.67	(4) #20 Dywidag bars	Yes	1.67	0.000	0.00	0.00	0.00	6.445	0.379	0.000	0.00	111.35
35.67	(6) 1 5/8" Coax	Yes	1.67	0.000	0.00	0.00	0.00	6.445	0.379	0.000	0.00	8.20
35.67	(4) 1/2" Coax	Yes	1.67	0.000	0.00	0.00	0.00	6.445	0.379	0.000	0.00	1.00
35.67	(2) 2" Cond.	Yes	1.67	0.000	0.00	0.00	0.00	6.445	0.379	0.000	0.00	12.17
35.67	(1) RG6	Yes	1.67	0.000	0.00	0.00	0.00	6.445	0.379	0.000	0.00	0.05
36.00	(8) 1 5/8" Coax	Yes	0.33	1.200	3.96	0.11	0.13	6.462	0.373	0.000	0.94	2.18
36.00	(1) 10 mm Cable	Yes	0.33	0.000	0.00	0.00	0.00	6.462	0.373	0.000	0.00	0.02
36.00	(2) 19.7 mm Cable	Yes	0.33	0.000	0.00	0.00	0.00	6.462	0.373	0.000	0.00	0.39
36.00	(2) 1/2" Coax	Yes	0.33	1.200	0.63	0.02	0.02	6.462	0.373	0.000	0.15	0.10
36.00	(6) 1 5/8" Coax	Yes	0.33	0.000	0.00	0.00	0.00	6.462	0.373	0.000	0.00	1.64
36.00	(8) 1 5/8" Coax	Yes	0.33	1.200	5.94	0.16	0.20	6.462	0.373	0.000	1.41	2.18
36.00	(12) 1 5/8" Coax	Yes	0.33	1.200	1.98	0.05	0.07	6.462	0.373	0.000	0.47	3.28
36.00	(4) #20 Dywidag bars	Yes	0.33	0.000	0.00	0.00	0.00	6.462	0.373	0.000	0.00	22.24
36.00	(6) 1 5/8" Coax	Yes	0.33	0.000	0.00	0.00	0.00	6.462	0.373	0.000	0.00	1.64
36.00	(4) 1/2" Coax	Yes	0.33	0.000	0.00	0.00	0.00	6.462	0.373	0.000	0.00	0.20
36.00	(2) 2" Cond.	Yes	0.33	0.000	0.00	0.00	0.00	6.462	0.373	0.000	0.00	2.43
36.00	(1) RG6	Yes	0.33	0.000	0.00	0.00	0.00	6.462	0.373	0.000	0.00	0.01
38.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.562	0.375	0.000	5.72	13.12
38.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.562	0.375	0.000	0.00	0.14
38.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.562	0.375	0.000	0.00	2.36
38.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.562	0.375	0.000	0.91	0.60
38.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.562	0.375	0.000	0.00	9.84
38.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.562	0.375	0.000	8.58	13.12
38.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.562	0.375	0.000	2.86	19.68
38.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.562	0.375	0.000	0.00	133.60
38.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.562	0.375	0.000	0.00	9.84
38.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.562	0.375	0.000	0.00	1.20
38.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.562	0.375	0.000	0.00	14.60
38.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.562	0.375	0.000	0.00	0.06
40.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.659	0.379	0.000	5.80	13.12
40.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.659	0.379	0.000	0.00	0.14
40.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.659	0.379	0.000	0.00	2.36
40.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.659	0.379	0.000	0.92	0.60
40.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.659	0.379	0.000	0.00	9.84
40.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.659	0.379	0.000	8.70	13.12
40.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.659	0.379	0.000	2.90	19.68
40.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.659	0.379	0.000	0.00	133.60
40.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.659	0.379	0.000	0.00	9.84
40.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.659	0.379	0.000	0.00	1.20
40.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.659	0.379	0.000	0.00	14.60
40.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.659	0.379	0.000	0.00	0.06
42.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.753	0.383	0.000	5.88	13.12
42.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.753	0.383	0.000	0.00	0.14
42.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.753	0.383	0.000	0.00	2.36
42.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.753	0.383	0.000	0.94	0.60
42.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.753	0.383	0.000	0.00	9.84
42.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.753	0.383	0.000	8.82	13.12
42.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.753	0.383	0.000	2.94	19.68
42.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.753	0.383	0.000	0.00	133.60
42.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.753	0.383	0.000	0.00	9.84
42.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.753	0.383	0.000	0.00	1.20
42.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.753	0.383	0.000	0.00	14.60
42.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.753	0.383	0.000	0.00	0.06
44.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.843	0.386	0.000	5.96	13.12
44.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.843	0.386	0.000	0.00	0.14
44.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.843	0.386	0.000	0.00	2.36

Pole :	302489	Code: ANSI/TIA-222 Rev G			3/27/2012 1:57:43 PM
Location :	Enfd - Enfield, CT	Struct Class : II			Page: 79
Height :	150.0 (ft)	Exposure Category : B			
Base Dia :	37.38 (in)	Topographic Category : 1			
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)			
Shape :	12 Sides				
Taper :	0.156700 (in/ft)				

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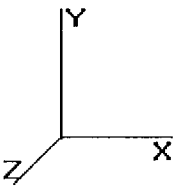

Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

44.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.843	0.386	0.000	0.95	0.60
44.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.843	0.386	0.000	0.00	9.84
44.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.843	0.386	0.000	8.94	13.12
44.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.843	0.386	0.000	2.98	19.68
44.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.843	0.386	0.000	0.00	133.60
44.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.843	0.386	0.000	0.00	9.84
44.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.843	0.386	0.000	0.00	1.20
44.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.843	0.386	0.000	0.00	14.60
44.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.843	0.386	0.000	0.00	0.06
46.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	6.931	0.390	0.000	6.04	13.12
46.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.931	0.390	0.000	0.00	0.14
46.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	6.931	0.390	0.000	0.00	2.36
46.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	6.931	0.390	0.000	0.96	0.60
46.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.931	0.390	0.000	0.00	9.84
46.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	6.931	0.390	0.000	9.06	13.12
46.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	6.931	0.390	0.000	3.02	19.68
46.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	6.931	0.390	0.000	0.00	133.60
46.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.931	0.390	0.000	0.00	9.84
46.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.931	0.390	0.000	0.00	1.20
46.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	6.931	0.390	0.000	0.00	14.60
46.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.931	0.390	0.000	0.00	0.06
48.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	7.015	0.394	0.000	6.11	13.12
48.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.015	0.394	0.000	0.00	0.14
48.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.015	0.394	0.000	0.00	2.36
48.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	7.015	0.394	0.000	0.97	0.60
48.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.015	0.394	0.000	0.00	9.84
48.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	7.015	0.394	0.000	9.17	13.12
48.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	7.015	0.394	0.000	3.06	19.68
48.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	7.015	0.394	0.000	0.00	133.60
48.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.015	0.394	0.000	0.00	9.84
48.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.015	0.394	0.000	0.00	1.20
48.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	7.015	0.394	0.000	0.00	14.60
48.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	7.015	0.394	0.000	0.00	0.06
50.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	7.098	0.398	0.000	6.18	13.12
50.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.098	0.398	0.000	0.00	0.14
50.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.098	0.398	0.000	0.00	2.36
50.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	7.098	0.398	0.000	0.98	0.60
50.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.098	0.398	0.000	0.00	9.84
50.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	7.098	0.398	0.000	9.28	13.12
50.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	7.098	0.398	0.000	3.09	19.68
50.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	7.098	0.398	0.000	0.00	133.60
50.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.098	0.398	0.000	0.00	9.84
50.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.098	0.398	0.000	0.00	1.20
50.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	7.098	0.398	0.000	0.00	14.60
50.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	7.098	0.398	0.000	0.00	0.06
52.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	7.178	0.403	0.000	6.25	13.12
52.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.178	0.403	0.000	0.00	0.14
52.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.178	0.403	0.000	0.00	2.36
52.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	7.178	0.403	0.000	0.99	0.60
52.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.178	0.403	0.000	0.00	9.84
52.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	7.178	0.403	0.000	9.38	13.12
52.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	7.178	0.403	0.000	3.13	19.68
52.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	7.178	0.403	0.000	0.00	133.60
52.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.178	0.403	0.000	0.00	9.84
52.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.178	0.403	0.000	0.00	1.20
52.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	7.178	0.403	0.000	0.00	14.60
52.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	7.178	0.403	0.000	0.00	0.06

Pole :	302489	Code: ANSI/TIA-222 Rev G			3/27/2012 1:57:43 PM
Location :	Enfd - Enfield, CT	Struct Class : II			Page: 80
Height :	150.0 (ft)	Exposure Category : B			
Base Dia :	37.38 (in)	Topographic Category : 1			
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)			
Shape :	12 Sides				
Taper :	0.156700 (in/ft)				

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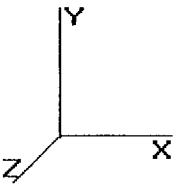

Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

54.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	7.255	0.407	0.000	6.32	13.12
54.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.255	0.407	0.000	0.00	0.14
54.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.255	0.407	0.000	0.00	2.36
54.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	7.255	0.407	0.000	1.01	0.60
54.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.255	0.407	0.000	0.00	9.84
54.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	7.255	0.407	0.000	9.48	13.12
54.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	7.255	0.407	0.000	3.16	19.68
54.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	7.255	0.407	0.000	0.00	133.60
54.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.255	0.407	0.000	0.00	9.84
54.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.255	0.407	0.000	0.00	1.20
54.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	7.255	0.407	0.000	0.00	14.60
54.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	7.255	0.407	0.000	0.00	0.06
56.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	7.331	0.411	0.000	6.39	13.12
56.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.331	0.411	0.000	0.00	0.14
56.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.331	0.411	0.000	0.00	2.36
56.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	7.331	0.411	0.000	1.02	0.60
56.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.331	0.411	0.000	0.00	9.84
56.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	7.331	0.411	0.000	9.58	13.12
56.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	7.331	0.411	0.000	3.19	19.68
56.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	7.331	0.411	0.000	0.00	133.60
56.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.331	0.411	0.000	0.00	9.84
56.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.331	0.411	0.000	0.00	1.20
56.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	7.331	0.411	0.000	0.00	14.60
56.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	7.331	0.411	0.000	0.00	0.06
58.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	7.405	0.416	0.000	6.45	13.12
58.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.405	0.416	0.000	0.00	0.14
58.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.405	0.416	0.000	0.00	2.36
58.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	7.405	0.416	0.000	1.03	0.60
58.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.405	0.416	0.000	0.00	9.84
58.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	7.405	0.416	0.000	9.68	13.12
58.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	7.405	0.416	0.000	3.23	19.68
58.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	7.405	0.416	0.000	0.00	133.60
58.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.405	0.416	0.000	0.00	9.84
58.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.405	0.416	0.000	0.00	1.20
58.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	7.405	0.416	0.000	0.00	14.60
60.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	7.477	0.420	0.000	6.51	13.12
60.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.477	0.420	0.000	0.00	0.14
60.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.477	0.420	0.000	0.00	2.36
60.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	7.477	0.420	0.000	1.04	0.60
60.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.477	0.420	0.000	0.00	9.84
60.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	7.477	0.420	0.000	9.77	13.12
60.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	7.477	0.420	0.000	3.26	19.68
60.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	7.477	0.420	0.000	0.00	133.60
60.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.477	0.420	0.000	0.00	9.84
60.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.477	0.420	0.000	0.00	1.20
60.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	7.477	0.420	0.000	0.00	14.60
62.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	7.548	0.425	0.000	6.58	13.12
62.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.548	0.425	0.000	0.00	0.14
62.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.548	0.425	0.000	0.00	2.36
62.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	7.548	0.425	0.000	1.05	0.60
62.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.548	0.425	0.000	0.00	9.84
62.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	7.548	0.425	0.000	9.86	13.12
62.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	7.548	0.425	0.000	3.29	19.68
62.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	7.548	0.425	0.000	0.00	133.60
62.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.548	0.425	0.000	0.00	9.84
62.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.548	0.425	0.000	0.00	1.20
62.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	7.548	0.425	0.000	0.00	14.60

Pole :	302489				Code: ANSI/TIA-222 Rev G						3/27/2012 1:57:44 PM	
Location :	Enfd - Enfield, CT				Struct Class : II						Page: 81	
Height :	150.0 (ft)				Exposure Category : B							
Base Dia :	37.38 (in)				Topographic Category : 1							
Top Dia :	15.00 (in)				Base Elev : 0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156700 (in/ft)											

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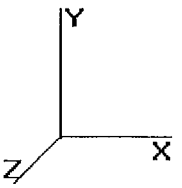

Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

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

64.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	7.616	0.430	0.000	6.64	13.12
64.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.616	0.430	0.000	0.00	0.14
64.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.616	0.430	0.000	0.00	2.36
64.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	7.616	0.430	0.000	1.06	0.60
64.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.616	0.430	0.000	0.00	9.84
64.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	7.616	0.430	0.000	9.95	13.12
64.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	7.616	0.430	0.000	3.32	19.68
64.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	7.616	0.430	0.000	0.00	133.60
64.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.616	0.430	0.000	0.00	9.84
64.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.616	0.430	0.000	0.00	1.20
64.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	7.616	0.430	0.000	0.00	14.60
66.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	7.684	0.434	0.000	6.69	13.12
66.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.684	0.434	0.000	0.00	0.14
66.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.684	0.434	0.000	0.00	2.36
66.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	7.684	0.434	0.000	1.06	0.60
66.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.684	0.434	0.000	0.00	9.84
66.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	7.684	0.434	0.000	10.04	13.12
66.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	7.684	0.434	0.000	3.35	19.68
66.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	7.684	0.434	0.000	0.00	133.60
66.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.684	0.434	0.000	0.00	9.84
66.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.684	0.434	0.000	0.00	1.20
66.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	7.684	0.434	0.000	0.00	14.60
68.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	7.749	0.439	0.000	6.75	13.12
68.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.749	0.439	0.000	0.00	0.14
68.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.749	0.439	0.000	0.00	2.36
68.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	7.749	0.439	0.000	1.07	0.60
68.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.749	0.439	0.000	0.00	9.84
68.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	7.749	0.439	0.000	10.13	13.12
68.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	7.749	0.439	0.000	3.38	19.68
68.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	7.749	0.439	0.000	0.00	133.60
68.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.749	0.439	0.000	0.00	9.84
68.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.749	0.439	0.000	0.00	1.20
68.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	7.749	0.439	0.000	0.00	14.60
70.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	7.814	0.444	0.000	6.81	13.12
70.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.814	0.444	0.000	0.00	0.14
70.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.814	0.444	0.000	0.00	2.36
70.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	7.814	0.444	0.000	1.08	0.60
70.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.814	0.444	0.000	0.00	9.84
70.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	7.814	0.444	0.000	10.21	13.12
70.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	7.814	0.444	0.000	3.40	19.68
70.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	7.814	0.444	0.000	0.00	133.60
70.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.814	0.444	0.000	0.00	9.84
70.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.814	0.444	0.000	0.00	1.20
70.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	7.814	0.444	0.000	0.00	14.60
70.00	(8) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	7.814	0.447	0.000	0.00	0.00
70.00	(1) 10 mm Cable	Yes	0.00	0.000	0.00	0.00	0.00	7.814	0.447	0.000	0.00	0.00
70.00	(2) 19.7 mm Cable	Yes	0.00	0.000	0.00	0.00	0.00	7.814	0.447	0.000	0.00	0.00
70.00	(2) 1/2" Coax	Yes	0.00	1.200	0.63	0.00	0.00	7.814	0.447	0.000	0.00	0.00
70.00	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	7.814	0.447	0.000	0.00	0.00
70.00	(8) 1 5/8" Coax	Yes	0.00	1.200	5.94	0.00	0.00	7.814	0.447	0.000	0.00	0.00
70.00	(12) 1 5/8" Coax	Yes	0.00	1.200	1.98	0.00	0.00	7.814	0.447	0.000	0.00	0.00
70.00	(4) #20 Dywidag bars	Yes	0.00	0.000	0.00	0.00	0.00	7.814	0.447	0.000	0.00	0.02
70.00	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	7.814	0.447	0.000	0.00	0.00
70.00	(4) 1/2" Coax	Yes	0.00	0.000	0.00	0.00	0.00	7.814	0.447	0.000	0.00	0.00
70.00	(2) 2" Cond.	Yes	0.00	0.000	0.00	0.00	0.00	7.814	0.447	0.000	0.00	0.00
72.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	7.877	0.450	0.000	6.86	13.12
72.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.877	0.450	0.000	0.00	0.14

Pole :	302489				Code: ANSI/TIA-222 Rev G						3/27/2012 1:57:44 PM	
Location :	Enfd - Enfield, CT				Struct Class : II						Page: 82	
Height :	150.0 (ft)				Exposure Category : B							
Base Dia :	37.38 (in)				Topographic Category : 1							
Top Dia :	15.00 (in)				Base Elev : 0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156700 (in/ft)											

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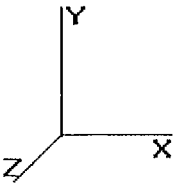

Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

72.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	7.877	0.450	0.000	0.00	2.36
72.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	7.877	0.450	0.000	1.09	0.60
72.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.877	0.450	0.000	0.00	9.84
72.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	7.877	0.450	0.000	10.29	13.12
72.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	7.877	0.450	0.000	3.43	19.67
72.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	7.877	0.450	0.000	0.00	133.58
72.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.877	0.450	0.000	0.00	9.84
72.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.877	0.450	0.000	0.00	1.20
72.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	7.877	0.450	0.000	0.00	14.60
73.50	(8) 1 5/8" Coax	Yes	1.50	1.200	3.96	0.50	0.59	7.924	0.454	0.000	5.18	9.84
73.50	(1) 10 mm Cable	Yes	1.50	0.000	0.00	0.00	0.00	7.924	0.454	0.000	0.00	0.11
73.50	(2) 19.7 mm Cable	Yes	1.50	0.000	0.00	0.00	0.00	7.924	0.454	0.000	0.00	1.77
73.50	(2) 1/2" Coax	Yes	1.50	1.200	0.63	0.08	0.09	7.924	0.454	0.000	0.82	0.45
73.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	7.924	0.454	0.000	0.00	7.38
73.50	(8) 1 5/8" Coax	Yes	1.50	1.200	5.94	0.74	0.89	7.924	0.454	0.000	7.77	9.84
73.50	(12) 1 5/8" Coax	Yes	1.50	1.200	1.98	0.25	0.30	7.924	0.454	0.000	2.59	14.76
73.50	(4) #20 Dywidag bars	Yes	1.50	0.000	0.00	0.00	0.00	7.924	0.454	0.000	0.00	100.22
73.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	7.924	0.454	0.000	0.00	7.38
73.50	(4) 1/2" Coax	Yes	1.50	0.000	0.00	0.00	0.00	7.924	0.454	0.000	0.00	0.90
73.50	(2) 2" Cond.	Yes	1.50	0.000	0.00	0.00	0.00	7.924	0.454	0.000	0.00	10.95
74.00	(8) 1 5/8" Coax	Yes	0.50	1.200	3.96	0.16	0.20	7.939	0.448	0.000	1.73	3.28
74.00	(1) 10 mm Cable	Yes	0.50	0.000	0.00	0.00	0.00	7.939	0.448	0.000	0.00	0.03
74.00	(2) 19.7 mm Cable	Yes	0.50	0.000	0.00	0.00	0.00	7.939	0.448	0.000	0.00	0.59
74.00	(2) 1/2" Coax	Yes	0.50	1.200	0.63	0.03	0.03	7.939	0.448	0.000	0.27	0.15
74.00	(6) 1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	7.939	0.448	0.000	0.00	2.46
74.00	(8) 1 5/8" Coax	Yes	0.50	1.200	5.94	0.25	0.30	7.939	0.448	0.000	2.59	3.28
74.00	(12) 1 5/8" Coax	Yes	0.50	1.200	1.98	0.08	0.10	7.939	0.448	0.000	0.86	4.92
74.00	(4) #20 Dywidag bars	Yes	0.50	0.000	0.00	0.00	0.00	7.939	0.448	0.000	0.00	33.38
74.00	(6) 1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	7.939	0.448	0.000	0.00	2.46
74.00	(4) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	7.939	0.448	0.000	0.00	0.30
74.00	(2) 2" Cond.	Yes	0.50	0.000	0.00	0.00	0.00	7.939	0.448	0.000	0.00	3.65
76.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	8.000	0.452	0.000	6.97	13.12
76.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.000	0.452	0.000	0.00	0.14
76.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.000	0.452	0.000	0.00	2.36
76.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	8.000	0.452	0.000	1.11	0.60
76.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.000	0.452	0.000	0.00	9.84
76.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	8.000	0.452	0.000	10.45	13.12
76.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	8.000	0.452	0.000	3.48	19.68
76.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	8.000	0.452	0.000	0.00	133.60
76.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.000	0.452	0.000	0.00	9.84
76.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.000	0.452	0.000	0.00	1.20
76.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	8.000	0.452	0.000	0.00	14.60
78.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	8.059	0.457	0.000	7.02	13.12
78.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.059	0.457	0.000	0.00	0.14
78.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.059	0.457	0.000	0.00	2.36
78.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	8.059	0.457	0.000	1.12	0.60
78.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.059	0.457	0.000	0.00	9.84
78.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	8.059	0.457	0.000	10.53	13.12
78.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	8.059	0.457	0.000	3.51	19.68
78.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	8.059	0.457	0.000	0.00	133.60
78.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.059	0.457	0.000	0.00	9.84
78.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.059	0.457	0.000	0.00	1.20
78.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	8.059	0.457	0.000	0.00	14.60
80.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	8.118	0.463	0.000	7.07	13.12
80.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.118	0.463	0.000	0.00	0.14
80.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.118	0.463	0.000	0.00	2.36
80.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	8.118	0.463	0.000	1.13	0.60

Pole :	302489	Code: ANSI/TIA-222 Rev G			3/27/2012 1:57:44 PM
Location :	Enfd - Enfield, CT	Struct Class : II			Page: 83
Height :	150.0 (ft)	Exposure Category : B			
Base Dia :	37.38 (in)	Topographic Category : 1			
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)			
Shape :	12 Sides				
Taper :	0.156700 (in/ft)				

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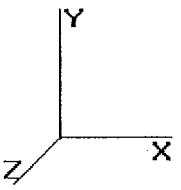


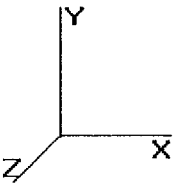
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

80.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.118	0.463	0.000	0.00	9.84
80.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	8.118	0.463	0.000	10.61	13.12
80.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	8.118	0.463	0.000	3.54	19.68
80.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	8.118	0.463	0.000	0.00	133.60
80.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.118	0.463	0.000	0.00	9.84
80.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.118	0.463	0.000	0.00	1.20
80.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	8.118	0.463	0.000	0.00	14.60
82.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	8.175	0.468	0.000	7.12	13.12
82.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.175	0.468	0.000	0.00	0.14
82.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.175	0.468	0.000	0.00	2.36
82.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	8.175	0.468	0.000	1.13	0.60
82.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.175	0.468	0.000	0.00	9.84
82.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	8.175	0.468	0.000	10.68	13.12
82.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	8.175	0.468	0.000	3.56	19.68
82.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	8.175	0.468	0.000	0.00	133.60
82.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.175	0.468	0.000	0.00	9.84
82.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.175	0.468	0.000	0.00	1.20
82.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	8.175	0.468	0.000	0.00	14.60
84.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	8.232	0.474	0.000	7.17	13.12
84.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.232	0.474	0.000	0.00	0.14
84.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.232	0.474	0.000	0.00	2.36
84.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	8.232	0.474	0.000	1.14	0.60
84.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.232	0.474	0.000	0.00	9.84
84.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	8.232	0.474	0.000	10.76	13.12
84.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	8.232	0.474	0.000	3.59	19.68
84.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	8.232	0.474	0.000	0.00	133.60
84.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.232	0.474	0.000	0.00	9.84
84.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.232	0.474	0.000	0.00	1.20
84.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	8.232	0.474	0.000	0.00	14.60
86.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	8.287	0.480	0.000	7.22	13.12
86.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.287	0.480	0.000	0.00	0.14
86.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.287	0.480	0.000	0.00	2.36
86.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	8.287	0.480	0.000	1.15	0.60
86.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.287	0.480	0.000	0.00	9.84
86.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	8.287	0.480	0.000	10.83	13.12
86.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	8.287	0.480	0.000	3.61	19.68
86.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	8.287	0.480	0.000	0.00	133.60
86.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.287	0.480	0.000	0.00	9.84
86.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.287	0.480	0.000	0.00	1.20
86.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	8.287	0.480	0.000	0.00	14.60
88.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	8.342	0.486	0.000	7.27	13.12
88.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.342	0.486	0.000	0.00	0.14
88.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.342	0.486	0.000	0.00	2.36
88.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	8.342	0.486	0.000	1.16	0.60
88.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.342	0.486	0.000	0.00	9.84
88.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	8.342	0.486	0.000	10.90	13.12
88.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	8.342	0.486	0.000	3.63	19.68
88.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	8.342	0.486	0.000	0.00	133.60
88.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.342	0.486	0.000	0.00	9.84
88.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.342	0.486	0.000	0.00	1.20
88.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	8.342	0.486	0.000	0.00	14.60
90.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	8.396	0.492	0.000	7.31	13.12
90.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.396	0.492	0.000	0.00	0.14
90.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.396	0.492	0.000	0.00	2.36
90.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	8.396	0.492	0.000	1.16	0.60
90.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.396	0.492	0.000	0.00	9.84
90.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	8.396	0.492	0.000	10.97	13.12



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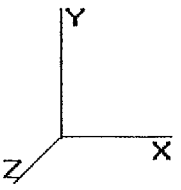
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

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

Wind Importance Factor : 1.00

90.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	8.396	0.492	0.000	3.66	19.68
90.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	8.396	0.492	0.000	0.00	133.60
90.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.396	0.492	0.000	0.00	9.84
90.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.396	0.492	0.000	0.00	1.20
90.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	8.396	0.492	0.000	0.00	14.60
92.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	8.448	0.498	0.000	7.36	13.12
92.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.448	0.498	0.000	0.00	0.14
92.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.448	0.498	0.000	0.00	2.36
92.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	8.448	0.498	0.000	1.17	0.60
92.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.448	0.498	0.000	0.00	9.84
92.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	8.448	0.498	0.000	11.04	13.12
92.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	8.448	0.498	0.000	3.68	19.68
92.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	8.448	0.498	0.000	0.00	133.60
92.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.448	0.498	0.000	0.00	9.84
92.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.448	0.498	0.000	0.00	1.20
92.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	8.448	0.498	0.000	0.00	14.60
94.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	8.501	0.505	0.000	7.41	13.12
94.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.501	0.505	0.000	0.00	0.14
94.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.501	0.505	0.000	0.00	2.36
94.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	8.501	0.505	0.000	1.18	0.60
94.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.501	0.505	0.000	0.00	9.84
94.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	8.501	0.505	0.000	11.11	13.12
94.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	8.501	0.505	0.000	3.70	19.68
94.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	8.501	0.505	0.000	0.00	133.60
94.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.501	0.505	0.000	0.00	9.84
94.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.501	0.505	0.000	0.00	1.20
94.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	8.501	0.505	0.000	0.00	14.60
96.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	8.552	0.512	0.000	7.45	13.12
96.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.552	0.512	0.000	0.00	0.14
96.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.552	0.512	0.000	0.00	2.36
96.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	8.552	0.512	0.000	1.19	0.60
96.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.552	0.512	0.000	0.00	9.84
96.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	8.552	0.512	0.000	11.18	13.12
96.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	8.552	0.512	0.000	3.73	19.68
96.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	8.552	0.512	0.000	0.00	133.60
96.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.552	0.512	0.000	0.00	9.84
96.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.552	0.512	0.000	0.00	1.20
96.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	8.552	0.512	0.000	0.00	14.60
98.00	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	8.602	0.519	0.000	7.49	13.12
98.00	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.602	0.519	0.000	0.00	0.14
98.00	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.602	0.519	0.000	0.00	2.36
98.00	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	8.602	0.519	0.000	1.19	0.60
98.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.602	0.519	0.000	0.00	9.84
98.00	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	8.602	0.519	0.000	11.24	13.12
98.00	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	8.602	0.519	0.000	3.75	19.68
98.00	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	8.602	0.519	0.000	0.00	133.60
98.00	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.602	0.519	0.000	0.00	9.84
98.00	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.602	0.519	0.000	0.00	1.20
98.00	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	8.602	0.519	0.000	0.00	14.60
100.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	8.652	0.526	0.000	7.54	13.12
100.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.652	0.526	0.000	0.00	0.14
100.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.652	0.526	0.000	0.00	2.36
100.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	8.652	0.526	0.000	1.20	0.60
100.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.652	0.526	0.000	0.00	9.84
100.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	8.652	0.526	0.000	11.31	13.12
100.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	8.652	0.526	0.000	3.77	19.68
100.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	8.652	0.526	0.000	0.00	133.60



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Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

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

Wind Importance Factor : 1.00

100.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.652	0.526	0.000	0.00	9.84
100.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.652	0.526	0.000	0.00	1.20
100.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	8.652	0.526	0.000	0.00	14.60
102.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	8.701	0.533	0.000	7.58	13.12
102.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.701	0.533	0.000	0.00	0.14
102.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.701	0.533	0.000	0.00	2.36
102.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	8.701	0.533	0.000	1.21	0.60
102.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.701	0.533	0.000	0.00	9.84
102.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	8.701	0.533	0.000	11.37	13.12
102.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	8.701	0.533	0.000	3.79	19.68
102.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	8.701	0.533	0.000	0.00	133.60
102.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.701	0.533	0.000	0.00	9.84
102.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.701	0.533	0.000	0.00	1.20
102.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	8.701	0.533	0.000	0.00	14.60
104.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	8.750	0.540	0.000	7.62	13.12
104.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.750	0.540	0.000	0.00	0.14
104.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.750	0.540	0.000	0.00	2.36
104.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	8.750	0.540	0.000	1.21	0.60
104.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.750	0.540	0.000	0.00	9.84
104.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	8.750	0.540	0.000	11.43	13.12
104.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	8.750	0.540	0.000	3.81	19.68
104.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	8.750	0.540	0.000	0.00	133.60
104.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.750	0.540	0.000	0.00	9.84
104.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.750	0.540	0.000	0.00	1.20
104.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	8.750	0.540	0.000	0.00	14.60
106.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	8.797	0.548	0.000	7.66	13.12
106.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.797	0.548	0.000	0.00	0.14
106.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.797	0.548	0.000	0.00	2.36
106.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	8.797	0.548	0.000	1.22	0.60
106.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.797	0.548	0.000	0.00	9.84
106.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	8.797	0.548	0.000	11.50	13.12
106.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	8.797	0.548	0.000	3.83	19.68
106.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	8.797	0.548	0.000	0.00	133.60
106.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.797	0.548	0.000	0.00	9.84
106.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.797	0.548	0.000	0.00	1.20
106.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	8.797	0.548	0.000	0.00	14.60
108.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	8.845	0.556	0.000	7.71	13.12
108.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.845	0.556	0.000	0.00	0.14
108.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.845	0.556	0.000	0.00	2.36
108.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	8.845	0.556	0.000	1.23	0.60
108.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.845	0.556	0.000	0.00	9.84
108.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	8.845	0.556	0.000	11.56	13.12
108.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	8.845	0.556	0.000	3.85	19.68
108.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	8.845	0.556	0.000	0.00	133.60
108.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.845	0.556	0.000	0.00	9.84
108.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.845	0.556	0.000	0.00	1.20
108.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	8.845	0.556	0.000	0.00	14.60
110.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	8.891	0.564	0.000	7.75	13.12
110.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.891	0.564	0.000	0.00	0.14
110.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.891	0.564	0.000	0.00	2.36
110.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	8.891	0.564	0.000	1.23	0.60
110.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.891	0.564	0.000	0.00	9.84
110.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	8.891	0.564	0.000	11.62	13.12
110.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	8.891	0.564	0.000	3.87	19.68
110.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	8.891	0.564	0.000	0.00	133.60
110.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.891	0.564	0.000	0.00	9.84
110.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.891	0.564	0.000	0.00	1.20

Pole :	302489	Code: ANSI/TIA-222 Rev G			3/27/2012 1:57:44 PM
Location :	Enfd - Enfield, CT	Struct Class : II			Page: 86
Height :	150.0 (ft)	Exposure Category : B			
Base Dia :	37.38 (in)	Topographic Category : 1			
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)			
Shape :	12 Sides				
Taper :	0.156700 (in/ft)				

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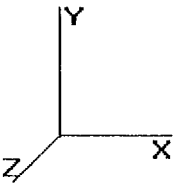

Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

110.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	8.891	0.564	0.000	0.00	14.60
110.0	(8) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	8.891	0.568	0.000	0.00	0.00
110.0	(1) 10 mm Cable	Yes	0.00	0.000	0.00	0.00	0.00	8.891	0.568	0.000	0.00	0.00
110.0	(2) 19.7 mm Cable	Yes	0.00	0.000	0.00	0.00	0.00	8.891	0.568	0.000	0.00	0.00
110.0	(2) 1/2" Coax	Yes	0.00	1.200	0.63	0.00	0.00	8.891	0.568	0.000	0.00	0.00
110.0	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	8.891	0.568	0.000	0.00	0.00
110.0	(8) 1 5/8" Coax	Yes	0.00	1.200	5.94	0.00	0.00	8.891	0.568	0.000	0.00	0.00
110.0	(12) 1 5/8" Coax	Yes	0.00	1.200	1.98	0.00	0.00	8.891	0.568	0.000	0.00	0.00
110.0	(4) #20 Dywidag bars	Yes	0.00	0.000	0.00	0.00	0.00	8.891	0.568	0.000	0.00	0.02
110.0	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	8.891	0.568	0.000	0.00	0.00
110.0	(4) 1/2" Coax	Yes	0.00	0.000	0.00	0.00	0.00	8.891	0.568	0.000	0.00	0.00
110.0	(2) 2" Cond.	Yes	0.00	0.000	0.00	0.00	0.00	8.891	0.568	0.000	0.00	0.00
112.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	8.937	0.572	0.000	7.78	13.12
112.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.937	0.572	0.000	0.00	0.14
112.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.937	0.572	0.000	0.00	2.36
112.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	8.937	0.572	0.000	1.24	0.60
112.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.937	0.572	0.000	0.00	9.84
112.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	8.937	0.572	0.000	11.68	13.12
112.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	8.937	0.572	0.000	3.89	19.67
112.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	8.937	0.572	0.000	0.00	133.58
112.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.937	0.572	0.000	0.00	9.84
112.0	(4) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.937	0.572	0.000	0.00	1.20
112.0	(2) 2" Cond.	Yes	2.00	0.000	0.00	0.00	0.00	8.937	0.572	0.000	0.00	14.60
114.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	8.982	0.581	0.000	7.83	13.12
114.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.982	0.581	0.000	0.00	0.14
114.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	8.982	0.581	0.000	0.00	2.36
114.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	8.982	0.581	0.000	1.24	0.60
114.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.982	0.581	0.000	0.00	9.84
114.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	8.982	0.581	0.000	11.74	13.12
114.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	8.982	0.581	0.000	3.91	19.68
114.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	8.982	0.581	0.000	0.00	133.60
114.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	8.982	0.581	0.000	0.00	9.84
116.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.027	0.590	0.000	7.86	13.12
116.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.027	0.590	0.000	0.00	0.14
116.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.027	0.590	0.000	0.00	2.36
116.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	9.027	0.590	0.000	1.25	0.60
116.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.027	0.590	0.000	0.00	9.84
116.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	9.027	0.590	0.000	11.80	13.12
116.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	9.027	0.590	0.000	3.93	19.68
116.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	9.027	0.590	0.000	0.00	133.60
116.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.027	0.590	0.000	0.00	9.84
118.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.071	0.599	0.000	7.90	13.12
118.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.071	0.599	0.000	0.00	0.14
118.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.071	0.599	0.000	0.00	2.36
118.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	9.071	0.599	0.000	1.26	0.60
118.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.071	0.599	0.000	0.00	9.84
118.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	9.071	0.599	0.000	11.85	13.12
118.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	9.071	0.599	0.000	3.95	19.68
118.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	9.071	0.599	0.000	0.00	133.60
118.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.071	0.599	0.000	0.00	9.84
120.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.115	0.609	0.000	7.94	13.12
120.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.115	0.609	0.000	0.00	0.14
120.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.115	0.609	0.000	0.00	2.36
120.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	9.115	0.609	0.000	1.26	0.60
120.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.115	0.609	0.000	0.00	9.84
120.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	9.115	0.609	0.000	11.91	13.12
120.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	9.115	0.609	0.000	3.97	19.68

Pole :	302489				Code: ANSI/TIA-222 Rev G						3/27/2012 1:57:45 PM	
Location :	Enfd - Enfield, CT				Struct Class : II						Page: 87	
Height :	150.0 (ft)				Exposure Category : B							
Base Dia :	37.38 (in)				Topographic Category : 1							
Top Dia :	15.00 (in)				Base Elev : 0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156700 (in/ft)											

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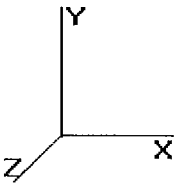

Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

120.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	9.115	0.609	0.000	0.00	133.60
120.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.115	0.609	0.000	0.00	9.84
121.0	(8) 1 5/8" Coax	Yes	1.00	1.200	3.96	0.33	0.40	9.136	0.616	0.000	3.98	6.56
121.0	(1) 10 mm Cable	Yes	1.00	0.000	0.00	0.00	0.00	9.136	0.616	0.000	0.00	0.07
121.0	(2) 19.7 mm Cable	Yes	1.00	0.000	0.00	0.00	0.00	9.136	0.616	0.000	0.00	1.18
121.0	(2) 1/2" Coax	Yes	1.00	1.200	0.63	0.05	0.06	9.136	0.616	0.000	0.63	0.30
121.0	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.136	0.616	0.000	0.00	4.92
121.0	(8) 1 5/8" Coax	Yes	1.00	1.200	5.94	0.50	0.59	9.136	0.616	0.000	5.97	6.56
121.0	(12) 1 5/8" Coax	Yes	1.00	1.200	1.98	0.17	0.20	9.136	0.616	0.000	1.99	9.84
121.0	(4) #20 Dywidag bars	Yes	1.00	0.000	0.00	0.00	0.00	9.136	0.616	0.000	0.00	66.80
121.0	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.136	0.616	0.000	0.00	4.92
122.0	(8) 1 5/8" Coax	Yes	1.00	1.200	3.96	0.33	0.40	9.158	0.621	0.000	3.99	6.56
122.0	(1) 10 mm Cable	Yes	1.00	0.000	0.00	0.00	0.00	9.158	0.621	0.000	0.00	0.07
122.0	(2) 19.7 mm Cable	Yes	1.00	0.000	0.00	0.00	0.00	9.158	0.621	0.000	0.00	1.18
122.0	(2) 1/2" Coax	Yes	1.00	1.200	0.63	0.05	0.06	9.158	0.621	0.000	0.63	0.30
122.0	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.158	0.621	0.000	0.00	4.92
122.0	(8) 1 5/8" Coax	Yes	1.00	1.200	5.94	0.50	0.59	9.158	0.621	0.000	5.98	6.56
122.0	(12) 1 5/8" Coax	Yes	1.00	1.200	1.98	0.17	0.20	9.158	0.621	0.000	1.99	9.84
122.0	(4) #20 Dywidag bars	Yes	1.00	0.000	0.00	0.00	0.00	9.158	0.621	0.000	0.00	66.80
122.0	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.158	0.621	0.000	0.00	4.92
124.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.201	0.628	0.000	8.02	13.12
124.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.201	0.628	0.000	0.00	0.14
124.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.201	0.628	0.000	0.00	2.36
124.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	9.201	0.628	0.000	1.28	0.60
124.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.201	0.628	0.000	0.00	9.84
124.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	9.201	0.628	0.000	12.02	13.12
124.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	9.201	0.628	0.000	4.01	19.68
124.0	(4) #20 Dywidag bars	Yes	2.00	0.000	0.00	0.00	0.00	9.201	0.628	0.000	0.00	133.60
126.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.243	0.639	0.000	8.05	13.12
126.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.243	0.639	0.000	0.00	0.14
126.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.243	0.639	0.000	0.00	2.36
126.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	9.243	0.639	0.000	1.28	0.60
126.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.243	0.639	0.000	0.00	9.84
126.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	9.243	0.639	0.000	12.08	13.12
126.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	9.243	0.639	0.000	4.03	19.68
126.0	(4) #20 Dywidag bars	Yes	1.51	0.000	0.00	0.00	0.00	9.243	0.639	0.000	0.00	100.87
128.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.284	0.650	0.000	8.09	13.12
128.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.284	0.650	0.000	0.00	0.14
128.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.284	0.650	0.000	0.00	2.36
128.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	9.284	0.650	0.000	1.29	0.60
128.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.284	0.650	0.000	0.00	9.84
128.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	9.284	0.650	0.000	12.13	13.12
128.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	9.284	0.650	0.000	4.04	19.68
130.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.326	0.661	0.000	8.12	13.12
130.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.326	0.661	0.000	0.00	0.14
130.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.326	0.661	0.000	0.00	2.36
130.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	9.326	0.661	0.000	1.29	0.60
130.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.326	0.661	0.000	0.00	9.84
130.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	9.326	0.661	0.000	12.19	13.12
130.0	(12) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	9.326	0.661	0.000	4.06	19.68
132.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.366	0.566	0.000	8.16	13.12
132.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.366	0.566	0.000	0.00	0.14
132.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.366	0.566	0.000	0.00	2.36
132.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	9.366	0.566	0.000	1.30	0.60
132.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.366	0.566	0.000	0.00	9.84
132.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	9.366	0.566	0.000	12.24	13.12
134.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.407	0.576	0.000	8.20	13.12

Pole :	302489	Code: ANSI/TIA-222 Rev G			3/27/2012 1:57:45 PM
Location :	Enfd - Enfield, CT	Struct Class : II			Page: 88
Height :	150.0 (ft)	Exposure Category : B			
Base Dia :	37.38 (in)	Topographic Category : 1			
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)			
Shape :	12 Sides				
Taper :	0.156700 (in/ft)				

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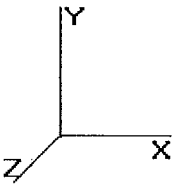

Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

134.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.407	0.576	0.000	0.00	0.14
134.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.407	0.576	0.000	0.00	2.36
134.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	9.407	0.576	0.000	1.30	0.60
134.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.407	0.576	0.000	0.00	9.84
134.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	9.407	0.576	0.000	12.29	13.12
136.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.447	0.586	0.000	8.23	13.12
136.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.447	0.586	0.000	0.00	0.14
136.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.447	0.586	0.000	0.00	2.36
136.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	9.447	0.586	0.000	1.31	0.60
136.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.447	0.586	0.000	0.00	9.84
136.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	9.447	0.586	0.000	12.34	13.12
138.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.486	0.597	0.000	8.26	13.12
138.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.486	0.597	0.000	0.00	0.14
138.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.486	0.597	0.000	0.00	2.36
138.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	9.486	0.597	0.000	1.31	0.60
138.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.486	0.597	0.000	0.00	9.84
138.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	9.486	0.597	0.000	12.40	13.12
140.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.525	0.608	0.000	8.30	13.12
140.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.525	0.608	0.000	0.00	0.14
140.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.525	0.608	0.000	0.00	2.36
140.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	9.525	0.608	0.000	1.32	0.60
140.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.525	0.608	0.000	0.00	9.84
140.0	(8) 1 5/8" Coax	Yes	2.00	1.200	5.94	0.99	1.19	9.525	0.608	0.000	12.45	13.12
142.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.564	0.270	0.000	8.33	13.12
142.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.564	0.270	0.000	0.00	0.14
142.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.564	0.270	0.000	0.00	2.36
142.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	9.564	0.270	0.000	1.33	0.60
144.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.602	0.275	0.000	8.37	13.12
144.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.602	0.275	0.000	0.00	0.14
144.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.602	0.275	0.000	0.00	2.36
144.0	(2) 1/2" Coax	Yes	2.00	1.200	0.63	0.10	0.13	9.602	0.275	0.000	1.33	0.60
146.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.640	0.242	0.000	8.40	13.12
146.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.640	0.242	0.000	0.00	0.14
146.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.640	0.242	0.000	0.00	2.36
148.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.678	0.247	0.000	8.43	13.12
148.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.678	0.247	0.000	0.00	0.14
148.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.678	0.247	0.000	0.00	2.36
150.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.715	0.252	0.000	8.46	13.12
150.0	(1) 10 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.715	0.252	0.000	0.00	0.14
150.0	(2) 19.7 mm Cable	Yes	2.00	0.000	0.00	0.00	0.00	9.715	0.252	0.000	0.00	2.36
										Totals:	1,511.92	13,971.23

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:45 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 89
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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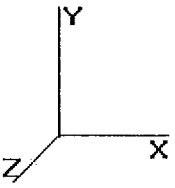

Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

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

Wind Importance 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
2.00	68.83	663.30	0.00	0.00
4.00	68.39	660.72	0.00	0.00
6.00	67.95	658.14	0.00	0.00
8.00	67.51	655.57	0.00	0.00
10.00	67.08	652.99	0.00	0.00
12.00	66.64	650.42	0.00	0.00
14.00	66.20	647.84	0.00	0.00
16.00	65.76	645.27	0.00	0.00
18.00	65.33	642.69	0.00	0.00
20.00	64.89	640.12	0.00	0.00
22.00	64.45	637.54	0.00	0.00
24.00	64.01	634.97	0.00	0.00
26.00	63.58	632.39	0.00	0.00
28.00	63.14	629.82	0.00	0.00
30.00	62.75	627.24	0.00	0.00
31.50	47.45	468.84	0.00	0.00
32.00	16.04	211.79	0.00	0.00
34.00	65.04	844.80	0.00	0.00
35.67	54.60	700.53	0.00	0.00
36.00	10.90	96.60	0.00	0.00
38.00	66.20	578.90	0.00	0.00
40.00	66.70	576.76	0.00	0.00
42.00	67.16	574.61	0.00	0.00
44.00	67.57	572.47	0.00	0.00
46.00	67.93	570.32	0.00	0.00
48.00	68.27	568.17	0.00	0.00
50.00	68.56	566.03	0.00	0.00
52.00	68.82	563.88	0.00	0.00
54.00	69.05	561.73	0.00	0.00
56.00	232.07	685.59	0.00	0.00
58.00	69.42	557.38	0.00	0.00
60.00	69.56	555.24	0.00	0.00
62.00	69.67	553.09	0.00	0.00
64.00	69.76	550.95	0.00	0.00
66.00	69.83	548.80	0.00	0.00
68.00	69.88	546.65	0.00	0.00
70.00	69.90	544.51	0.00	0.00
70.00	0.01	0.09	0.00	0.00
72.00	70.79	690.87	0.00	0.00
73.50	53.05	515.82	0.00	0.00
74.00	17.63	126.59	0.00	0.00
76.00	70.76	505.62	0.00	0.00
78.00	70.71	503.91	0.00	0.00
80.00	70.65	502.19	0.00	0.00
82.00	70.56	500.47	0.00	0.00
84.00	70.46	498.75	0.00	0.00
86.00	70.35	497.04	0.00	0.00
88.00	70.21	495.32	0.00	0.00
90.00	70.07	493.60	0.00	0.00

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:45 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 90
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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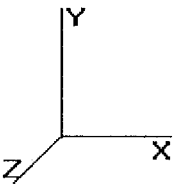

Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

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

Wind Importance Factor : 1.00

92.00		69.91	491.89	0.00	0.00
94.00		69.73	490.17	0.00	0.00
96.00		69.54	488.45	0.00	0.00
98.00		69.34	486.74	0.00	0.00
100.0		69.12	485.02	0.00	0.00
102.0		68.89	483.30	0.00	0.00
104.0		68.65	481.59	0.00	0.00
106.0		68.40	479.87	0.00	0.00
108.0		68.13	478.15	0.00	0.00
110.0		67.86	476.43	0.00	0.00
110.0		0.01	0.08	0.00	0.00
112.0		361.30	702.61	0.00	0.00
114.0		67.27	428.77	0.00	0.00
116.0		66.96	427.49	0.00	0.00
118.0		66.64	426.20	0.00	0.00
120.0		66.31	424.91	0.00	0.00
121.0		32.99	211.97	0.00	0.00
122.0		168.16	424.05	0.00	0.00
124.0		65.62	278.90	0.00	0.00
126.0		65.26	244.88	0.00	0.00
128.0		64.89	142.72	0.00	0.00
130.0		789.50	1,857.74	0.00	0.00
132.0		60.05	120.47	0.00	0.00
134.0		59.64	119.18	0.00	0.00
136.0		59.22	117.89	0.00	0.00
138.0		58.79	116.61	0.00	0.00
140.0		519.74	1,854.12	0.00	0.00
142.0		45.40	91.07	0.00	0.00
144.0		201.78	394.39	0.00	66.61
146.0		43.05	87.90	0.00	0.00
148.0		42.53	86.61	0.00	0.00
150.0		1,074.34	2,939.82	0.00	2,589.55
	Totals:	7,885.12	43,346.94	0.00	2,656.16

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:45 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 91
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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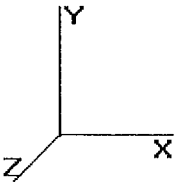

Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00
Wind Importance 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	-43.34	-7.90	0.00	-811.22	0.00	811.22	3,133.66	1,566.83	4,776.46	2,358.91	0.00	0.00	0.220
2.00	-42.68	-7.86	0.00	-795.42	0.00	795.42	3,116.86	1,558.43	4,710.21	2,326.20	0.01	-0.04	0.218
4.00	-42.01	-7.81	0.00	-779.71	0.00	779.71	3,099.89	1,549.95	4,644.15	2,293.57	0.03	-0.07	0.216
6.00	-41.35	-7.77	0.00	-764.09	0.00	764.09	3,082.76	1,541.38	4,578.29	2,261.04	0.07	-0.11	0.213
8.00	-40.69	-7.73	0.00	-748.55	0.00	748.55	3,065.46	1,532.73	4,512.63	2,228.62	0.12	-0.14	0.211
10.00	-40.03	-7.68	0.00	-733.10	0.00	733.10	3,047.99	1,524.00	4,447.17	2,196.29	0.19	-0.18	0.209
12.00	-39.37	-7.64	0.00	-717.73	0.00	717.73	3,030.36	1,515.18	4,381.94	2,164.07	0.27	-0.22	0.206
14.00	-38.72	-7.59	0.00	-702.46	0.00	702.46	3,012.56	1,506.28	4,316.92	2,131.97	0.37	-0.25	0.204
16.00	-38.07	-7.55	0.00	-687.27	0.00	687.27	2,994.60	1,497.30	4,252.13	2,099.97	0.48	-0.29	0.202
18.00	-37.43	-7.50	0.00	-672.17	0.00	672.17	2,976.47	1,488.23	4,187.58	2,068.09	0.61	-0.32	0.199
20.00	-36.78	-7.46	0.00	-657.16	0.00	657.16	2,958.17	1,479.08	4,123.27	2,036.33	0.76	-0.36	0.197
22.00	-36.14	-7.41	0.00	-642.25	0.00	642.25	2,939.70	1,469.85	4,059.20	2,004.69	0.91	-0.40	0.194
24.00	-35.50	-7.37	0.00	-627.42	0.00	627.42	2,921.07	1,460.54	3,995.39	1,973.17	1.09	-0.43	0.192
26.00	-34.86	-7.32	0.00	-612.69	0.00	612.69	2,902.28	1,451.14	3,931.84	1,941.79	1.28	-0.47	0.189
28.00	-34.23	-7.27	0.00	-598.05	0.00	598.05	2,883.31	1,441.66	3,868.56	1,910.53	1.48	-0.50	0.187
30.00	-33.60	-7.22	0.00	-583.51	0.00	583.51	2,864.18	1,432.09	3,805.55	1,879.42	1.70	-0.54	0.184
31.50	-33.13	-7.18	0.00	-572.67	0.00	572.67	2,849.72	1,424.86	3,758.46	1,856.16	1.87	-0.57	0.182
32.00	-32.91	-7.18	0.00	-569.09	0.00	569.09	2,844.89	1,422.44	3,742.82	1,848.44	1.93	-0.58	0.179
34.00	-32.07	-7.12	0.00	-554.74	0.00	554.74	2,819.42	1,409.71	3,672.56	1,813.74	2.18	-0.61	0.177
35.67	-31.36	-7.07	0.00	-542.87	0.00	542.87	2,231.07	1,115.54	2,951.42	1,457.59	2.40	-0.64	0.203
36.00	-31.27	-7.07	0.00	-540.52	0.00	540.52	2,228.86	1,114.43	2,943.66	1,453.76	2.44	-0.65	0.203
38.00	-30.68	-7.01	0.00	-526.38	0.00	526.38	2,215.49	1,107.75	2,897.11	1,430.77	2.72	-0.68	0.199
40.00	-30.10	-6.96	0.00	-512.35	0.00	512.35	2,201.95	1,100.98	2,850.70	1,407.85	3.02	-0.72	0.196
42.00	-29.52	-6.90	0.00	-498.43	0.00	498.43	2,188.25	1,094.13	2,804.43	1,385.00	3.33	-0.76	0.192
44.00	-28.95	-6.85	0.00	-484.63	0.00	484.63	2,174.38	1,087.19	2,758.30	1,362.22	3.65	-0.80	0.189
46.00	-28.37	-6.79	0.00	-470.93	0.00	470.93	2,160.35	1,080.17	2,712.33	1,339.52	4.00	-0.83	0.185
48.00	-27.80	-6.73	0.00	-457.35	0.00	457.35	2,146.14	1,073.07	2,666.52	1,316.89	4.35	-0.87	0.182
50.00	-27.23	-6.67	0.00	-443.89	0.00	443.89	2,131.78	1,065.89	2,620.87	1,294.35	4.72	-0.91	0.178
52.00	-26.67	-6.61	0.00	-430.55	0.00	430.55	2,117.24	1,058.62	2,575.40	1,271.89	5.11	-0.94	0.175
54.00	-26.10	-6.55	0.00	-417.33	0.00	417.33	2,102.54	1,051.27	2,530.10	1,249.52	5.51	-0.98	0.171
56.00	-25.42	-6.32	0.00	-404.23	0.00	404.23	2,087.67	1,043.84	2,484.99	1,227.24	5.93	-1.01	0.168
58.00	-24.86	-6.26	0.00	-391.60	0.00	391.60	2,072.64	1,036.32	2,440.07	1,205.06	6.36	-1.05	0.164
60.00	-24.30	-6.19	0.00	-379.09	0.00	379.09	2,057.44	1,028.72	2,395.35	1,182.97	6.81	-1.08	0.161
62.00	-23.74	-6.12	0.00	-366.70	0.00	366.70	2,042.07	1,021.04	2,350.84	1,160.99	7.27	-1.12	0.157
64.00	-23.19	-6.06	0.00	-354.46	0.00	354.46	2,026.54	1,013.27	2,306.53	1,139.11	7.75	-1.15	0.154
66.00	-22.64	-5.99	0.00	-342.34	0.00	342.34	2,010.84	1,005.42	2,262.45	1,117.34	8.24	-1.19	0.150
68.00	-22.09	-5.92	0.00	-330.36	0.00	330.36	1,994.98	997.49	2,218.59	1,095.68	8.74	-1.22	0.146
70.00	-21.55	-5.85	0.00	-318.52	0.00	318.52	1,978.94	989.47	2,174.96	1,074.13	9.26	-1.26	0.143
70.00	-21.55	-5.85	0.00	-318.51	0.00	318.51	1,978.94	989.47	2,174.95	1,074.12	9.26	-1.26	0.143
72.00	-20.85	-5.78	0.00	-306.81	0.00	306.81	1,958.85	979.43	2,127.34	1,050.61	9.80	-1.29	0.137
73.50	-20.34	-5.72	0.00	-298.14	0.00	298.14	1,462.64	731.32	1,612.09	796.15	10.20	-1.31	0.159
74.00	-20.21	-5.71	0.00	-295.28	0.00	295.28	1,460.13	730.06	1,604.56	792.43	10.34	-1.32	0.158
76.00	-19.70	-5.63	0.00	-283.87	0.00	283.87	1,449.95	724.98	1,574.48	777.57	10.90	-1.36	0.154
78.00	-19.20	-5.56	0.00	-272.60	0.00	272.60	1,439.61	719.81	1,544.48	762.76	11.48	-1.39	0.149
80.00	-18.69	-5.49	0.00	-261.48	0.00	261.48	1,429.11	714.55	1,514.58	747.99	12.07	-1.42	0.144
82.00	-18.19	-5.42	0.00	-250.50	0.00	250.50	1,418.44	709.22	1,484.77	733.27	12.67	-1.46	0.140
84.00	-17.69	-5.34	0.00	-239.66	0.00	239.66	1,407.60	703.80	1,455.07	718.61	13.29	-1.49	0.135
86.00	-17.19	-5.27	0.00	-228.97	0.00	228.97	1,396.60	698.30	1,425.49	704.00	13.92	-1.52	0.130
88.00	-16.70	-5.20	0.00	-218.43	0.00	218.43	1,385.43	692.71	1,396.02	689.44	14.56	-1.55	0.125
90.00	-16.20	-5.12	0.00	-208.04	0.00	208.04	1,374.09	687.04	1,366.68	674.95	15.22	-1.58	0.121
92.00	-15.71	-5.05	0.00	-197.79	0.00	197.79	1,362.59	681.29	1,337.48	660.53	15.89	-1.61	0.116

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:45 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 92
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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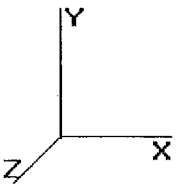

Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 29 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

94.00	-15.22	-4.97	0.00	-187.70	0.00	187.70	1,350.92	675.46	1,308.41	646.17	16.57	-1.64	0.111
96.00	-14.73	-4.89	0.00	-177.76	0.00	177.76	1,339.08	669.54	1,279.49	631.89	17.26	-1.67	0.106
98.00	-14.25	-4.82	0.00	-167.98	0.00	167.98	1,327.08	663.54	1,250.72	617.68	17.97	-1.70	0.102
100.00	-13.76	-4.74	0.00	-158.34	0.00	158.34	1,314.91	657.46	1,222.10	603.55	18.68	-1.72	0.097
102.00	-13.28	-4.66	0.00	-148.86	0.00	148.86	1,302.58	651.29	1,193.66	589.50	19.41	-1.75	0.092
104.00	-12.80	-4.58	0.00	-139.54	0.00	139.54	1,290.07	645.04	1,165.38	575.54	20.15	-1.77	0.087
106.00	-12.32	-4.51	0.00	-130.37	0.00	130.37	1,277.41	638.70	1,137.28	561.66	20.90	-1.80	0.083
108.00	-11.84	-4.43	0.00	-121.36	0.00	121.36	1,264.57	632.29	1,109.37	547.87	21.65	-1.82	0.078
110.00	-11.36	-4.35	0.00	-112.51	0.00	112.51	1,247.14	623.57	1,077.81	532.29	22.42	-1.84	0.073
110.00	-11.36	-4.35	0.00	-112.51	0.00	112.51	1,247.13	623.57	1,077.80	532.29	22.42	-1.84	0.073
110.00	-11.36	-4.35	0.00	-112.51	0.00	112.51	846.54	423.27	735.96	363.46	22.42	-1.84	0.089
112.00	-10.67	-3.97	0.00	-103.81	0.00	103.81	839.47	419.74	718.87	355.02	23.20	-1.86	0.082
114.00	-10.24	-3.89	0.00	-95.87	0.00	95.87	832.23	416.12	701.82	346.60	23.98	-1.89	0.077
116.00	-9.82	-3.81	0.00	-88.09	0.00	88.09	824.82	412.41	684.82	338.21	24.78	-1.91	0.071
118.00	-9.39	-3.74	0.00	-80.46	0.00	80.46	817.25	408.63	667.88	329.84	25.58	-1.93	0.066
120.00	-8.97	-3.66	0.00	-72.99	0.00	72.99	809.51	404.76	651.00	321.50	26.39	-1.94	0.060
121.00	-8.76	-3.62	0.00	-69.33	0.00	69.33	805.58	402.79	642.58	317.35	26.80	-1.95	0.058
121.00	-8.76	-3.62	0.00	-69.33	0.00	69.33	805.58	402.79	642.58	317.35	26.80	-1.95	0.229
122.00	-8.34	-3.44	0.00	-65.72	0.00	65.72	801.61	400.80	634.19	313.20	27.21	-1.96	0.220
124.00	-8.06	-3.38	0.00	-58.83	0.00	58.83	793.54	396.77	617.45	304.94	28.05	-2.03	0.203
126.00	-7.81	-3.31	0.00	-52.08	0.00	52.08	785.30	392.65	600.81	296.72	28.91	-2.09	0.186
128.00	-7.67	-3.25	0.00	-45.46	0.00	45.46	776.89	388.45	584.25	288.54	29.79	-2.14	0.168
130.00	-5.84	-2.39	0.00	-38.97	0.00	38.97	768.32	384.16	567.78	280.41	30.70	-2.19	0.147
132.00	-5.72	-2.33	0.00	-34.19	0.00	34.19	759.59	379.79	551.42	272.33	31.63	-2.24	0.133
134.00	-5.60	-2.27	0.00	-29.52	0.00	29.52	750.68	375.34	535.17	264.30	32.58	-2.28	0.119
136.00	-5.48	-2.21	0.00	-24.98	0.00	24.98	741.61	370.81	519.04	256.33	33.54	-2.32	0.105
138.00	-5.37	-2.15	0.00	-20.56	0.00	20.56	732.38	366.19	503.02	248.42	34.52	-2.36	0.090
140.00	-3.54	-1.56	0.00	-16.26	0.00	16.26	722.98	361.49	487.14	240.58	35.52	-2.39	0.072
142.00	-3.45	-1.51	0.00	-13.15	0.00	13.15	713.41	356.70	471.39	232.80	36.52	-2.41	0.061
144.00	-3.06	-1.29	0.00	-10.06	0.00	10.06	701.03	350.52	454.07	224.25	37.54	-2.43	0.049
146.00	-2.98	-1.25	0.00	-7.48	0.00	7.48	687.09	343.54	436.08	215.36	38.56	-2.45	0.039
148.00	-2.89	-1.20	0.00	-4.99	0.00	4.99	673.14	336.57	418.45	206.66	39.59	-2.46	0.028
150.00	0.00	-1.07	0.00	-2.59	0.00	2.59	659.19	329.60	401.19	198.13	40.62	-2.47	0.013

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/27/2012 1:57:45 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 93
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.38 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

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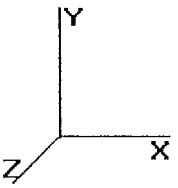


Analysis Summary

Load Case	Reactions Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Max Usage Elev (ft)	Interaction Ratio
1.2D + 1.6W	32.15	0.00	50.36	0.00	0.00	3338.97	121.00	0.92
0.9D + 1.6W	32.14	0.00	39.78	0.00	0.00	3281.13	121.00	0.90
1.2D + 1.0Di + 1.0Wi	8.44	0.00	107.07	0.00	0.00	1009.83	121.00	0.32
1.0D + 1.0W	7.90	0.00	43.34	0.00	0.00	811.22	121.00	0.23

Additional Steel Summary

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors VQ/I (lb/in)	Shear Applied (kips)	Shear phiVn (kips)	Upper Termination Connectors MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Lower Termination Connectors MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Max Member Pu (kip)	phiPn (kip)	Ratio
0.00	121.	(4) SOL-#20 All Thre	432.0	13.0	16.8	98.8	12.0	9	10	0.0	12.0	0	0	349.8	330.5	1.058

Base/Flange Plate	Plate Type	***Baseplate***	
	Pole Diameter	37.38	in
	Pole Thickness		in
	Plate Length	44	in
	Plate Thickness	2.5	in
	Plate Fy	60	ksi
	Weld Length	0.3125	in
	ϕ_s Resistance	1228.77	k-in
	Applied	852.69	k-in
Stiffeners	#	***0***	

Bolts ●	#	***8***	
	Bolt Circle	44	in
	(R)adial / (S)quare	S	
	Bolt Gap	6	in
	Diameter	2.25	in
	Hole Diameter	2.625	in
	Type	A615-75	
	Fy	75	ksi
	Fu	100	ksi
	ϕ_s Resistance	259.82	k
	Applied	253.02	k
Reinforcement ●	#	***4***	
	DYW. Circle	46	in
	Offset Angle	0	°
	Type	#20	
	Diameter	2.5	in
	Fu	100	ksi
Extra Bolts O	#	***0***	

Code Rev. ***G***

Moment 3339.0 k-ft

Axial 50.4 k

Date 3/26/2012

Engineer CLJ

Site # 302489

Carrier AT&T Mobility

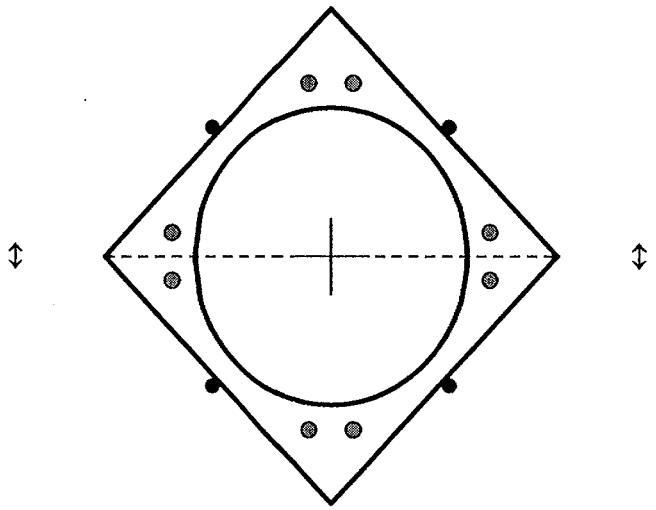


Plate Stress Ratio:

0.69 (Pass)

Bolt Stress Ratio:

0.97 (Pass)

Base/Flange Plate	Plate Type	*Flange @ 110.0 ft*	
	Pole Diameter	21.25	in
	Pole Thickness		in
	Plate Diameter	28.5	in
	Plate Thickness	1	in
	Plate Fy	60	ksi
	Weld Length	0.1875	in
	ϕ_s Resistance	96.45	k-in
	Applied	26.07	k-in
Stiffeners	#	*0*	

Bolts ●	#	*8*	
	Bolt Circle	25.75	in
	(R)adial / (S)quare	R	
	Diameter	1	in
	Hole Diameter	1.125	in
	Type	A325	
	Fy	92	ksi
	Fu	120	ksi
	ϕ_s Resistance	54.52	k
	Applied	17.38	k
Reinforcement ●	#	*4*	
	DYW. Circle	28	in
	Offset Angle	0	°
	Type	#20	
	Diameter	2.5	in
	Fu	100	ksi
Extra Bolts O	#	*0*	

Code Rev. *G*

Moment 468.8 k-ft
Axial 11.4 k

Date 3/26/2012
Engineer CLJ
Site # 302489
Carrier AT&T Mobility

Required Flange Thickness:
0.52 in OK

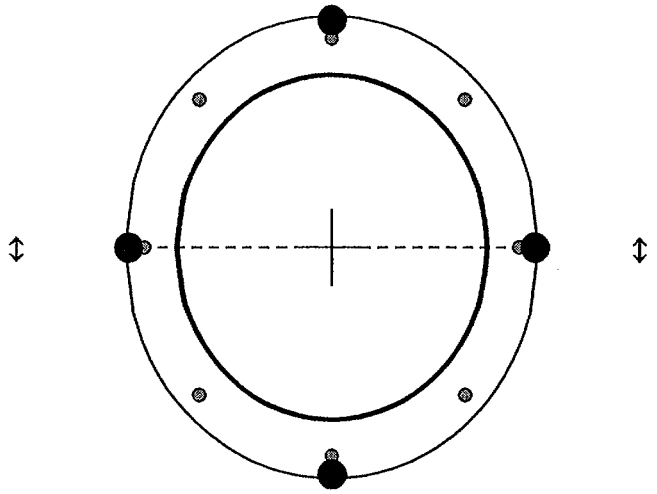
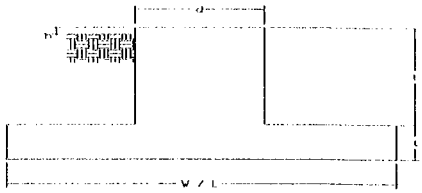


Plate Stress Ratio:
0.27 (Pass)

Bolt Stress Ratio:
0.32 (Pass)

Site Name:	Enfd - Enfield, CT	*Program Last Updated:*	*6/1/2010*
Site Number:	302489		
Engineering Number:	48982621		
Engineer:	C. Jolly		
Date:	03/26/12		
Tower Type:	MP		



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

Foundation Mapped:	N				
Compression/Leg:	0.0	k	Concrete Strength (f'_c):	3000	psi
Uplift/Leg:	0.0	k	Pad Tension Steel Depth:	32.00	in
Total Shear:	32.2	k	ϕ_{Shear}:	0.75	
Moment:	3339.0	k-ft	$\phi_{Flexure\ /\ Tension}$:	0.90	
Tower + Appurtenance Weight:	50.4	k	$\phi_{Compression}$:	0.65	
Depth to Base of Foundation (l + t - h):	8.00	ft	β:	0.85	
Diameter of Pier (d):	5.64	ft	Bottom Pad Rebar Size #:	10	
Height of Pier above Ground (h):	0.50		# of Bottom Pad Rebar:	34	
Width of Pad (W):	18.00	ft	Pad Bottom Steel Area:	43.18	in^2
Length of Pad (L):	18.00	ft	Pad Steel F_y:	60000	psi
Thickness of Pad (t):	3.00	ft	Top Pad Rebar Size #:	10	
Tower Leg Center to Center:	3.00	ft	# of Top Pad Rebar:	34	
Number of Tower Legs:	1.0	(1 if MP or GT)	Pad Top Steel Area:	43.18	in^2
Tower Center from Mat Center:	0.00	ft	Pier Rebar Size #:	11	
Depth Below Ground Surface to Water Table:	50.00	ft	Pier Steel Area (Single Bar):	1.56	in^2
Unit Weight of Concrete:	150.0	pcf	# of Pier Rebar:	52	
Unit Weight of Soil Above Water Table:	115.0	pcf	Pier Steel F_y:	60000	psi
Unit Weight of Water:	62.4	pcf	Pier Cage Diameter:	59.7	in
Unit Weight of Soil Below Water Table:	50.0	pcf	Rebar Strain Limit:	0.008	
Friction Angle of Uplift:	15.0	Degrees	Steel Elastic Modulus:	29000	ksi
Ultimate Coefficient of Shear Friction:	0.30		Tie Rebar Size #:	4	
Ultimate Compressive Bearing Pressure:	10000.0	psf	Tie Steel Area (Single Bar):	0.20	in^2
Ultimate Passive Pressure on Pad Face:	0.0	psf	Tie Spacing:	12	in
$\phi_{Soil\ and\ Concrete\ Weight}$:	0.9		Tie Steel F_y:	60000	psi
ϕ_{Soil}:	0.75				

Overturning Moment Usage

Design OTM:	3612.2	k-ft
OTM Resistance:	4655.3	k-ft
Design OTM / OTM Resistance:	0.78	Result: OK

Soil Bearing Pressure Usage:

Total Weight (Foundation, Soil, Tower):	537.8	k
Net Bearing Pressure:	6921	psf
Nominal Bearing Pressure:	7500	psf
Net Bearing Pressure/Nominal Bearing Pressure:	0.92	Result: OK
Load Direction Controling Design Bearing Pressure:	Diagonal to Pad Edge	

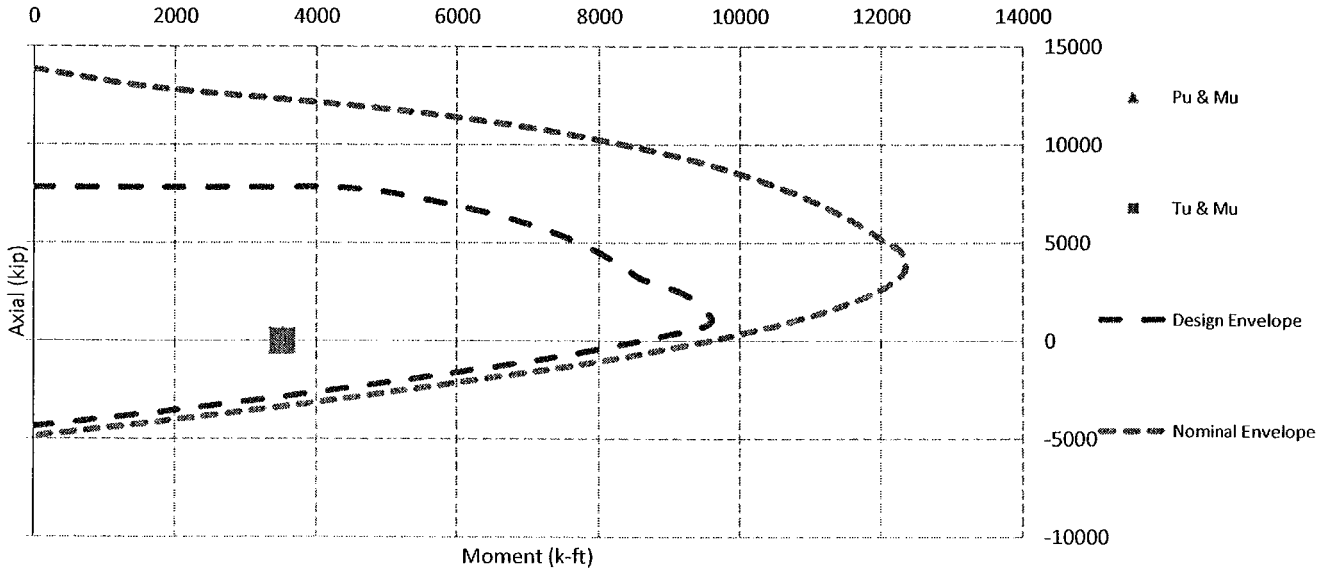
Sliding Factor of Safety

Total Factored Sliding Resistance:	121.0	k
Sliding Design / Sliding Resistance:	0.27	Result: OK

One Way Shear, Flexual Capacity, and Punching Shear

Factored One Way Shear (V_u):	244.8	k
One Way Shear Capacity (ϕV_c):	456.8	k - ACI11.3.1.1
V_u / ϕV_c:	0.54	Result: OK
Load Direction Controling Shear Capacity:	Diagonal to Pad Edge	
Lower Steel Pad Factored Moment (M_u):	1431.5	k-ft
Lower Steel Pad Moment Capacity (ϕM_n):	5829.5	k-ft - ACI10.3
M_u / ϕM_n:	0.25	Result: OK
Load Direction Controling Flexural Capacity:	Parallel to Pad Edge	
Upper Steel Pad Factored Moment (M_u):	535.8	k-ft
Upper Steel Pad Moment Capacity (ϕM_n):	5829.5	k-ft
M_u / ϕM_n:	0.09	Result: OK
Lower Pad Flexural Reinforcement Ratio:	0.0062	OK - Minimum Reinforcement Ratio Met - ACI10.5.1
Upper Pad Flexural Reinforcement Ratio:	0.0062	OK - Minimum Reinforcement Ratio Met - ACI10.5.1
Lower Pad Reinforcement Spacing:	6	in - Pad Reinforcing Spacing OK - ACI7.12.2.2 & 10.5.4
Upper Pad Reinforcement Spacing:	6	in - Pad Reinforcing Spacing OK - ACI7.12.2.2 & 10.5.4
Factored Punching Shear (V_u):	0.0	k
Nominal Punching Shear Capacity ($\phi_c V_n$):	1647.0	k - ACI11.12.2.1
V_u / ϕV_c:	0.00	Result: OK
Factored Moment in Pier (M_u):	3515.8	k-ft
Pier Moment Capacity (ϕM_n):	10656.2	k-ft
M_u / ϕM_n:	0.33	Result: OK
Factored Shear in Pier (V_u):	32.2	k
Pier Shear Capacity (ϕV_n):	295.8	k
V_u / ϕV_c:	0.11	Result: OK
Pier Shear Reinforcement Ratio:	0.0006	No Ties Necessary for Shear - ACI11.5.6.1
Factored Tension in Pier (T_u):	0.0	k
Pier Tension Capacity (ϕT_n):	4380.5	k
T_u / ϕT_n:	0.00	Result: OK
Factored Compression in Pier (P_u):	0.0	k
Pier Compression Capacity (ϕP_n):	7197.0	k - ACI10.3.6.2
P_u / ϕP_n:	0.00	Result: OK
Pier Compression Reinforcement Ratio:	0.023	OK - Reinforcement Ratio Met - ACI10.9.1 & 10.8.4
$M_u/\phi_B M_n + T_u/\phi_T T_n$:	0.33	Result: OK

Nominal and Design Moment Capacity and Factored Design Loads



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Calculated Radio Frequency Emissions

CT1021

(Enfield)

Town Farm Road, Enfield, CT 06082

April 24, 2012

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1. Introduction

The purpose of this report is to investigate compliance with applicable FCC regulations for the proposed modifications to the existing AT&T antenna arrays mounted on the monopole tower located off Town Farm Road in Enfield, CT. The coordinates of the tower are 41-57-57.27 N, 72-33-09.69 W.

AT&T is proposing the following modifications:

1) Install three 700 MHz LTE antennas (one per sector).

2. FCC Guidelines for Evaluating RF Radiation Exposure Limits

In 1985, the FCC established rules to regulate radio frequency (RF) exposure from FCC licensed antenna facilities. In 1996, the FCC updated these rules, which were further amended in August 1997 by OET Bulletin 65 Edition 97-01. These new rules include Maximum Permissible Exposure (MPE) limits for transmitters operating between 300 kHz and 100 GHz. The FCC MPE limits are based upon those recommended by the National Council on Radiation Protection and Measurements (NCRP), developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI).

The FCC general population/uncontrolled limits set the maximum exposure to which most people may be subjected. General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Public exposure to radio frequencies is regulated and enforced in units of milliwatts per square centimeter (mW/cm^2). The general population exposure limits for the various frequency ranges are defined in the attached "FCC Limits for Maximum Permissible Exposure (MPE)" in Attachment B of this report.

Higher exposure limits are permitted under the occupational/controlled exposure category, but only for persons who are exposed as a consequence of their employment and who have been made fully aware of the potential for exposure, and they must be able to exercise control over their exposure. General population/uncontrolled limits are five times more stringent than the levels that are acceptable for occupational, or radio frequency trained individuals. Attachment B contains excerpts from OET Bulletin 65 and defines the Maximum Exposure Limit.

Finally, it should be noted that the MPE limits adopted by the FCC for both general population/uncontrolled exposure and for occupational/controlled exposure incorporate a substantial margin of safety and have been established to be well below levels generally accepted as having the potential to cause adverse health effects.

3. RF Exposure Prediction Methods

The emission field calculation results displayed in the following figures were generated using the following formula as outlined in FCC bulletin OET 65:

$$\text{Power Density} = \left(\frac{1.6^2 \times EIRP}{4\pi \times R^2} \right) \text{x Off Beam Loss}$$

Where:

EIRP = Effective Isotropic Radiated Power

R = Radial Distance = $\sqrt{(H^2 + V^2)}$

H = Horizontal Distance from antenna in meters

V = Vertical Distance from radiation center of antenna in meters

Ground reflection factor of 1.6

Off Beam Loss is determined by the selected antenna pattern

These calculations assume that the antennas are operating at 100 percent capacity and power, and that all channels are transmitting simultaneously. Obstructions (trees, buildings, etc.) that would normally attenuate the signal are not taken into account. The calculations assume even terrain in the area of study and do not take into account actual terrain elevations which could attenuate the signal. As a result, the predicted signal levels reported below are much higher than the actual signal levels will be from the finished modifications.

4. Calculation Results

Table 1 below outlines the power density information for the site. Because the proposed AT&T antennas are directional in nature, the majority of the RF power is focused out towards the horizon. As a result, there will be less RF power directed below the antennas relative to the horizon, and consequently lower power density levels around the base of the tower. Please refer to Attachment C for the vertical pattern of the proposed AT&T antennas. The calculated results for AT&T in Table 1 include a nominal 10 dB off-beam pattern loss to account for the lower relative gain below the antennas.

Carrier	Antenna Height (Feet)	Operating Frequency (MHz)	Number of Trans.	ERP Per Transmitter (Watts)	Power Density (mw/cm^2)	Limit	%MPE
Cingular UMTS	154	880	1	500	0.0070	0.5867	1.29%
Cingular GSM	154	880	4	296	0.0180	0.5867	3.06%
Cingular GSM	154	1900	2	427	0.0129	1.0000	1.29%
Clearwire	112	2496	2	153	0.0088	1.0000	0.88%
Clearwire	112	11000	1	211	0.0060	1.0000	0.60%
Pocket	122	2130	3	631	0.0457	1.0000	4.57%
SNET Paging	161	930.9	N/A	N/A	0.0216	0.6206	3.48%
T-Mobile GSM	140	1945	8	126	0.0185	1.0000	1.85%
T-Mobile UMTS	140	2100	2	711	0.0261	1.0000	2.61%
Verizon Cellular	130	869	9	305	0.0584	0.5793	10.08%
Verizon PCS	130	1970	7	228	0.0340	1.0000	3.40%
Verizon AWS	130	2145	1	571	0.0121	1.0000	1.21%
Verizon LTE	130	698	1	713	0.0152	0.4653	3.26%
AT&T UMTS	152	880	2	565	0.0018	0.5867	0.30%
AT&T UMTS	152	1900	2	875	0.0027	1.0000	0.27%
AT&T LTE	154	734	1	1615	0.0024	0.4893	0.50%
AT&T GSM	152	880	1	283	0.0004	0.5867	0.08%
AT&T GSM	152	1900	4	525	0.0033	1.0000	0.33%
						Total	**33.42%**

Table 1: Carrier Information[1, 2]

[1] The existing CSC filing for Cingular should be removed and replaced with the updated AT&T technologies and values provided in Table 1. The power density information for carriers other than AT&T was taken directly from the CSC database dated 3/29/2012. Please note that %MPE values listed are rounded to two decimal points. The total %MPE listed is a summation of each unrounded contribution. Therefore, summing each rounded value may not identically match the total value reflected in the table.

[2] In the case where antenna models are not uniform across all 3 sectors for the same frequency band, the antenna model with the highest gain was used for the calculations to present a worse-case scenario.

5. Conclusion

The above analysis verifies that emissions from the existing site will be below the maximum power density levels as outlined by the FCC in the OET Bulletin 65 Ed. 97-01. Even when using conservative methods, the cumulative power density from the proposed transmit antennas at the existing facility is well below the limits for the general public. The highest expected percent of Maximum Permissible Exposure at ground level is **33.42% of the FCC limit**.

As noted previously, obstructions (trees, buildings, etc.) that would normally attenuate the signal are not taken into account. As a result, the predicted signal levels are more conservative (higher) than the actual signal levels will be from the finished modifications.

6. Statement of Certification

I certify to the best of my knowledge that the statements in this report are true and accurate. The calculations follow guidelines set forth in ANSI/IEEE Std. C95.3, ANSI/IEEE Std. C95.1 and FCC OET Bulletin 65 Edition 97-01.

Daniel L. Goulet
C Squared Systems, LLC

April 24, 2012
Date

Attachment A: References

OET Bulletin 65 - Edition 97-01 - August 1997 Federal Communications Commission Office of Engineering & Technology

ANSI C95.1-1982, American National Standard Safety Levels With Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 300 kHz to 100 GHz. IEEE-SA Standards Board

IEEE Std C95.3-1991 (Reaff 1997), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave. IEEE-SA Standards Board

Attachment B: FCC Limits for Maximum Permissible Exposure (MPE)

(A) Limits for Occupational/Controlled Exposure[3]

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $|E|^2$, $|H|^2$ or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	($900/f^2$)*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	f/300	6
1500-100,000	-	-	5	6

(B) Limits for General Population/Uncontrolled Exposure[4]

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $|E|^2$, $|H|^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

f = frequency in MHz * Plane-wave equivalent power density

Table 2: FCC Limits for Maximum Permissible Exposure (MPE)

[3] Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure

[4] General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure

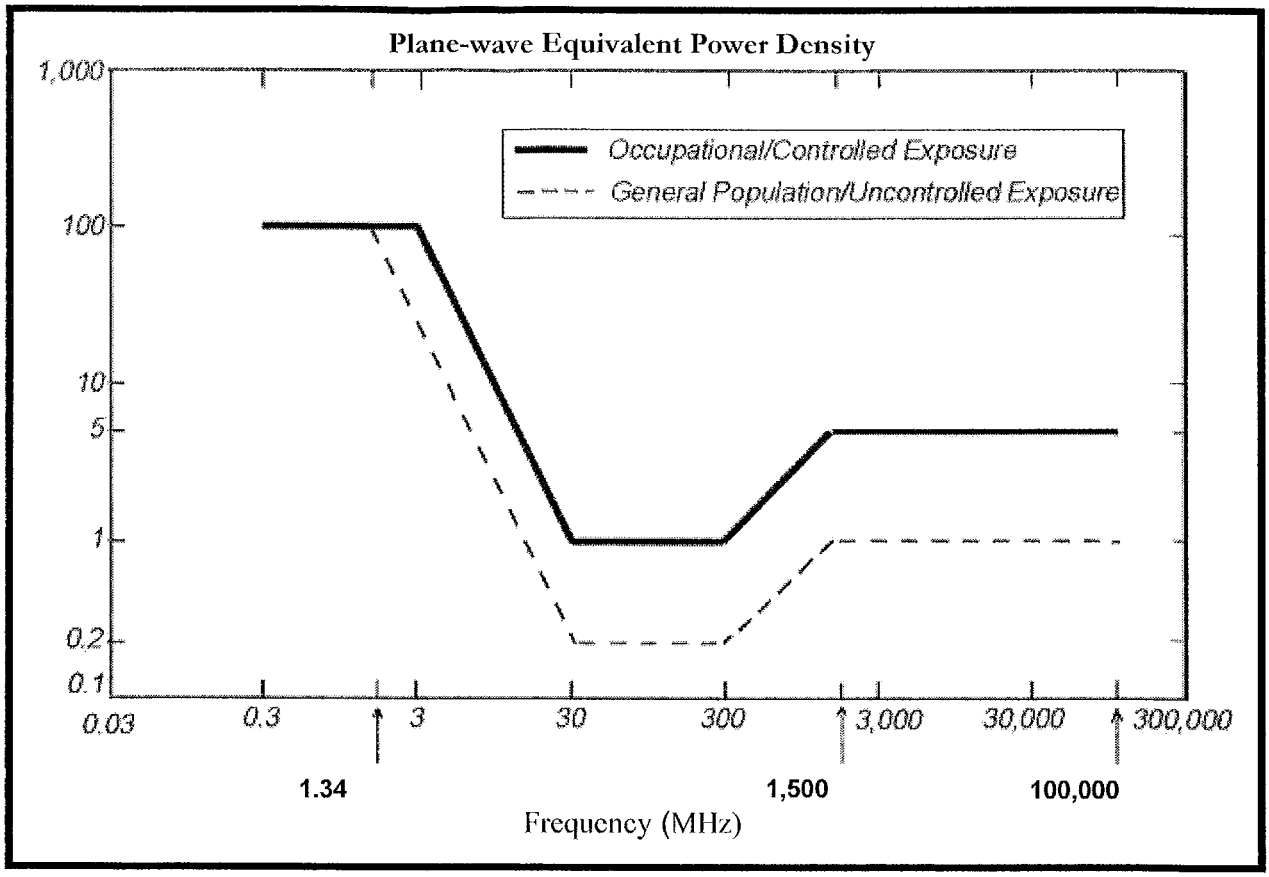
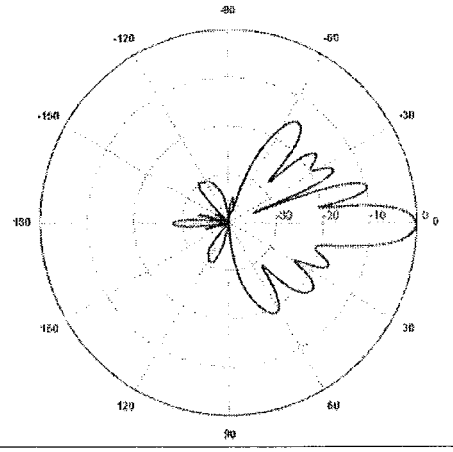


Figure 1: Graph of FCC Limits for Maximum Permissible Exposure (MPE)

Attachment C: AT&T Antenna Data Sheets and Electrical Patterns

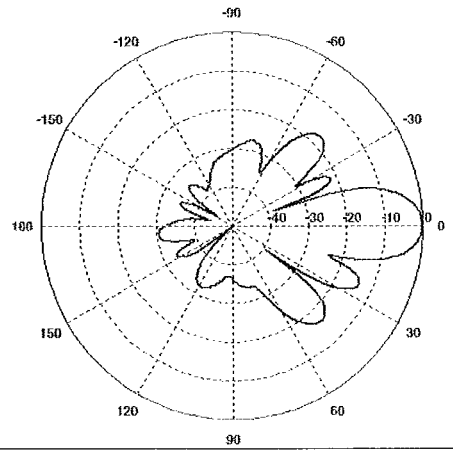
700 MHz

Manufacturer:	Powerwave
Model #:	P65-17-XLH-RR
Frequency Band:	698-806 MHz
Gain:	14.3 dBd
Vertical Beamwidth:	8.4°
Horizontal Beamwidth:	70°
Polarization:	Dual Linear ±45°
Size L x W x D:	96.0" x 12.0" x 6.0"



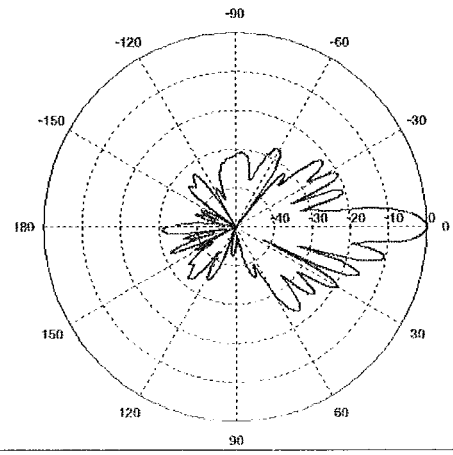
850 MHz

Manufacturer:	Powerwave
Model #:	7770.00
Frequency Band:	824-896 MHz
Gain:	11.4 dBd
Vertical Beamwidth:	15°
Horizontal Beamwidth:	85°
Polarization:	Dual Linear ±45°
Size L x W x D:	55.4" x 11.0" x 5.0"



1900 MHz

Manufacturer:	Powerwave
Model #:	7770.00
Frequency Band:	1850-1990 MHz
Gain:	13.4 dBd
Vertical Beamwidth:	7°
Horizontal Beamwidth:	90°
Polarization:	Dual Linear ±45°
Size L x W x D:	55.4" x 11.0" x 5.0"



PROJECT INFORMATION

SCOPE OF WORK:	UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS
SITE ADDRESS:	TOWN FARM ROAD ENFIELD, CT 06082
LATITUDE:	41.965917 N 41° 57' 57.3" N
LONGITUDE:	72.552694 W 72° 33' 9.7" W
JURISDICTION:	NATIONAL, STATE & LOCAL CODES OR ORDINANCES
CURRENT USE:	TELECOMMUNICATIONS FACILITY
PROPOSED USE:	TELECOMMUNICATIONS FACILITY
MAP / LOT:	71 / 3
ZONE:	R-88
PROPERTY OWNER:	TOWN OF ENFIELD 820 ENFIELD STREET ENFIELD, CT 06082

at&t

SITE NUMBER: CT1021
SITE NAME: ENFIELD

DRAWING INDEX

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T-1	TITLE SHEET	1
GN-1	GENERAL NOTES	1
A-1	COMPOUND & EQUIPMENT PLAN	1
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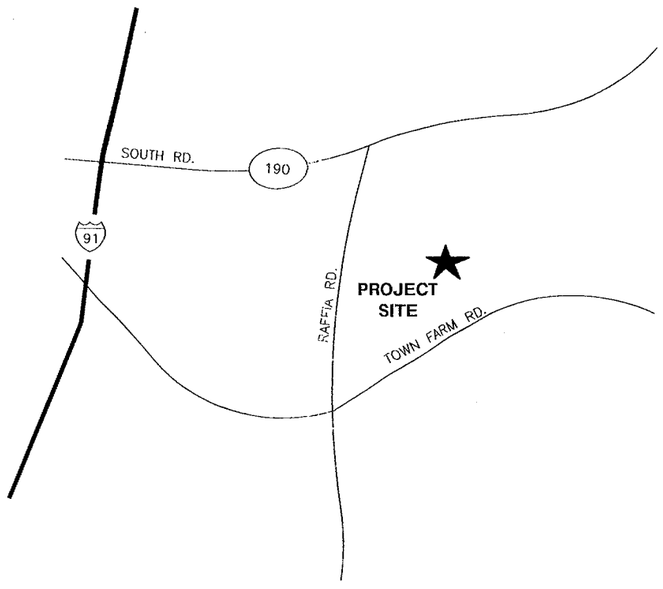
A-3	DETAILS	1
G-1	PLUMBING DIAGRAM & GROUNDING DETAILS	1

VICINITY MAP

DIRECTION TO SITE:
FROM ROCKY HILL, CT: MERGE ONTO I-91 N TOWARD HARTFORD. 19.4 MILES TAKE THE CT-140 EXIT- EXIT 45- TOWARD WAREHOUSE PT / ELLINGTON. 0.1 MILES TURN RIGHT ONTO BRIDGE ST / CT-140. CONTINUE TO FOLLOW CT-140. 2.3 MILES STAY STRAIGHT TO GO ONTO MELROSE RD. 0.2 MILES TURN LEFT ONTO YOSKY RD. <0.1 MILES YOSKY RD BECOMES SIMON RD. 0.8 MILES TURN RIGHT ONTO WEYMOUTH SCHOOL RD. 0.1 MILES TURN SLIGHT RIGHT ONTO POST OFFICE RD. 0.3 MILES POST OFFICE RD BECOMES TOWN FARM RD. 0.1 MILES TOWN FARM RD ENFIELD, CT 06082



GENERAL NOTES

1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
2. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

72 HOURS

BEFORE YOU DIG

CALL TOLL FREE 800-922-4455

UNDERGROUND SERVICE ALERT

Hudson Design Group LLC
1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 2-101
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

NEXLINK GLOBAL SERVICES
a UniTek GLOBAL SERVICES company
800 MARSHALL PHELPS ROAD UNIT#: 2A
WINDSOR, CT 06095

SITE NUMBER: CT1021
SITE NAME: ENFIELD
TOWN FARM ROAD
ENFIELD, CT 06082
HARTFORD COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	04/04/12	FOR CONSTRUCTION	DH	DC	DPH
0	03/02/12	ISSUED FOR REVIEW	DB	DC	DPH

SCALE: AS SHOWN | DESIGNED BY: DC | DRAWN BY: DB

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

AT&T

TITLE SHEET
(LTE)

JOB NUMBER	DRAWING NUMBER	REV
1021.01	T-1	1

GROUNDING NOTES

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.

2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.

3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.

4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.

5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS 2 AWG STRANDED COPPER FOR OUTDOOR BTS.

6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.

7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.

8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.

9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.

10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.

11. METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWS COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.

12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR – NEXLINK
SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
OWNER – AT&T MOBILITY

2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.

3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.

5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.

7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.

9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.

10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.

11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.

13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.

14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.

15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.

16. CONSTRUCTION SHALL COMPLY WITH UMTS SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T MOBILITY SITES."

17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.

19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

20. APPLICABLE BUILDING CODES:
SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
BUILDING CODE: 2003 IBC WITH 2005 CT SUPPLEMENT & 2009 CT AMENDMENTS
ELECTRICAL CODE: REFER TO ELECTRICAL DRAWINGS
LIGHTENING CODE: REFER TO ELECTRICAL DRAWINGS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION;

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARDS FOR STEEL

ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	G.C.	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
AWG	AMERICAN WIRE GAUGE	MGB	MASTER GROUND BUS		
BCW	BARE COPPER WIRE	MIN	MINIMUM	TBD	TO BE DETERMINED
BTS	BASE TRANSCEIVER STATION	PROPOSED	NEW	TBR	TO BE REMOVED
EXISTING	EXISTING	N.T.S.	NOT TO SCALE	TBRR	TO BE REMOVED AND REPLACED
EG	EQUIPMENT GROUND	REF.	REFERENCE	TYP	TYPICAL
EGR	EQUIPMENT GROUND RING	REQ.	REQUIRED		

Hudson Design Groupe LLC
1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 2-101
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

NEXLINK GLOBAL SERVICES
a UniTek GLOBAL SERVICES company
800 MARSHALL PHELPS ROAD UNIT#: 2A
WINDSOR, CT 06095

SITE NUMBER: CT1021
SITE NAME: ENFIELD
TOWN FARM ROAD
ENFIELD, CT 06082
HARTFORD COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	04/04/12	FOR CONSTRUCTION	DB	DC	DPH
0	03/02/12	ISSUED FOR REVIEW			

SCALE: AS SHOWN | DESIGNED BY: DC | DRAWN BY: DB

STATE OF CONNECTICUT · DANIEL P. HAMM · No. 21178 · LICENSED PROFESSIONAL ENGINEER

AT&T

GENERAL NOTES (LTE)

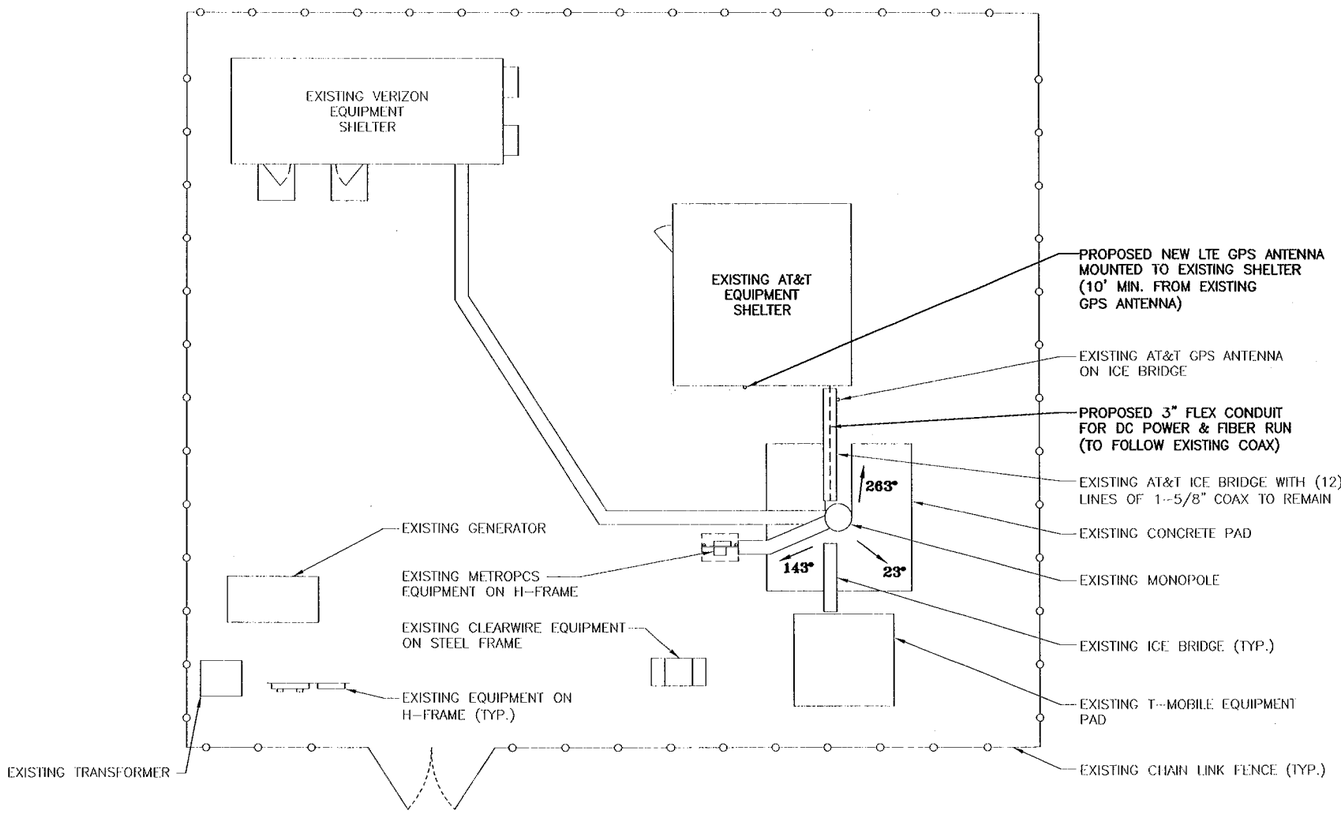
JOB NUMBER	DRAWING NUMBER	REV
1021.01	GN-1	1

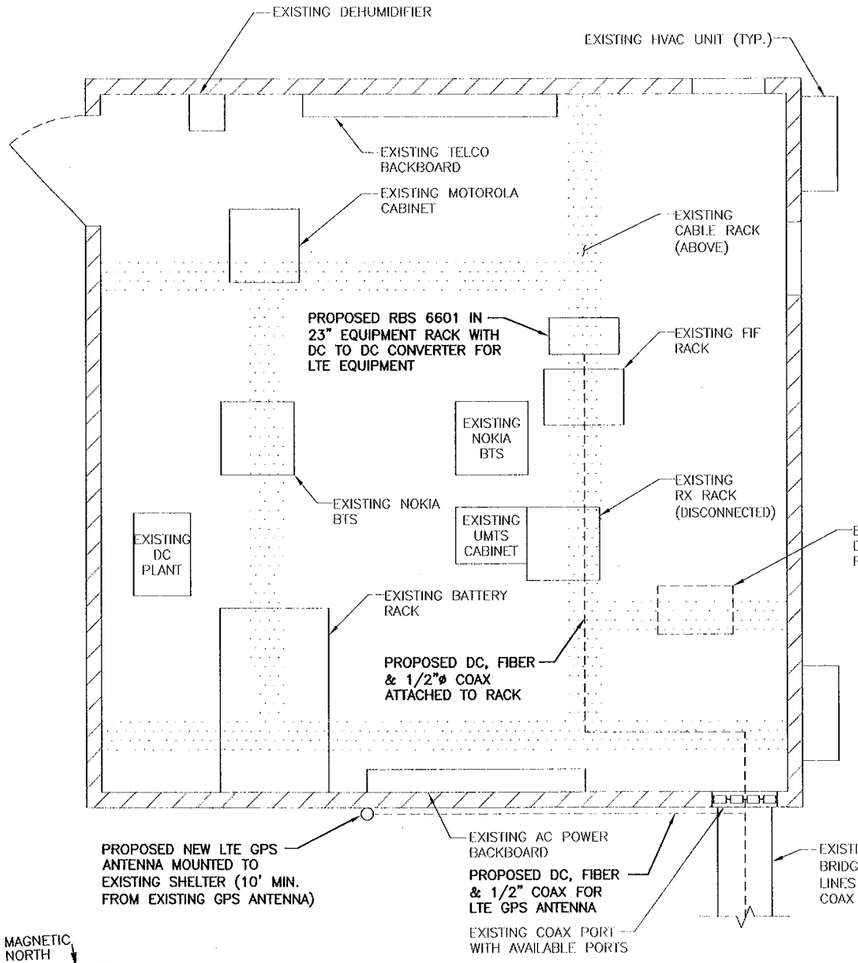
NOTE:

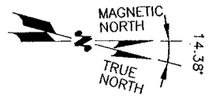
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:

AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.



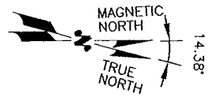




COMPOUND PLAN

SCALE: 3/16"=1'-0"

0 2'-8" 5'-4" 10'-8" 16'-0"



EQUIPMENT PLAN

SCALE: 1/2"=1'-0"

0 1'-0" 2'-0" 4'-0" 6'-0"

Hudson Design Groupe LLC
1400 OSGOOD STREET
BUILDING 20 NORTH, SUITE 2-101
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

NEXLINK GLOBAL SERVICES
a UniTek GLOBAL SERVICES company
800 MARSHALL PHELPS ROAD UNIT#: 2A
WINDSOR, CT 06095

SITE NUMBER: CT1021
SITE NAME: ENFIELD
TOWN FARM ROAD
ENFIELD, CT 06082
HARTFORD COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	04/04/12	FOR CONSTRUCTION	DB	DC	DPH
0	03/02/12	ISSUED FOR REVIEW	DB	DC	DPH

SCALE: AS SHOWN | DESIGNED BY: DC | DRAWN BY: DB

STATE OF CONNECTICUT DANIEL P. HAMM No. 21178 LICENSED PROFESSIONAL ENGINEER

AT&T

COMPOUND & EQUIPMENT PLAN (LTE)

JOB NUMBER	DRAWING NUMBER	REV
1021.01	A-1	1

PROJECT INFORMATION

SCOPE OF WORK:	UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS
SITE ADDRESS:	TOWN FARM ROAD ENFIELD, CT 06082
LATITUDE:	41.965917° N 41° 57' 57.3" N
LONGITUDE:	72.552694° W 72° 33' 9.7" W
JURISDICTION:	NATIONAL, STATE & LOCAL CODES OR ORDINANCES
CURRENT USE:	TELECOMMUNICATIONS FACILITY
PROPOSED USE:	TELECOMMUNICATIONS FACILITY
MAP / LOT:	71 / 3
ZONE:	R-88
PROPERTY OWNER:	TOWN OF ENFIELD 820 ENFIELD STREET ENFIELD, CT 06082

SITE NUMBER: CT1021
SITE NAME: ENFIELD

DRAWING INDEX

		REV
T-1	TITLE SHEET	1
GN-1	GENERAL NOTES	1
A-1	COMPOUND & EQUIPMENT PLAN	1
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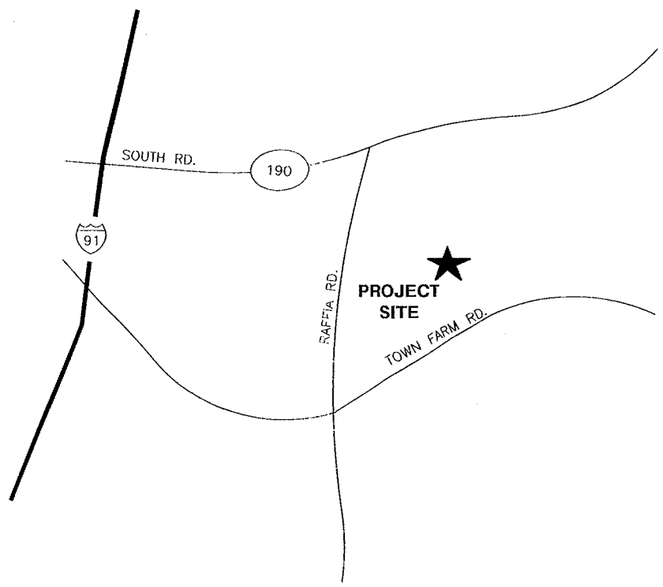
G-1	PLUMBING DIAGRAM & GROUNDING DETAILS	1

VICINITY MAP

DIRECTION TO SITE:
FROM ROCKY HILL, CT: MERGE ONTO I-91 N TOWARD HARTFORD. 19.4 MILES TAKE THE CT-140 EXIT- EXIT 45- TOWARD WAREHOUSE PT / ELLINGTON. 0.1 MILES TURN RIGHT ONTO BRIDGE ST / CT-140. CONTINUE TO FOLLOW CT-140. 2.3 MILES STAY STRAIGHT TO GO ONTO MELROSE RD. 0.2 MILES TURN LEFT ONTO YOSKY RD. <0.1 MILES YOSKY RD BECOMES SIMON RD. 0.8 MILES TURN RIGHT ONTO WEYMOUTH SCHOOL RD. 0.1 MILES TURN SLIGHT RIGHT ONTO POST OFFICE RD. 0.3 MILES POST OFFICE RD BECOMES TOWN FARM RD. 0.1 MILES TOWN FARM RD ENFIELD, CT 06082



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2. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

72 HOURS

BEFORE YOU DIG

CALL TOLL FREE 800-922-4455

UNDERGROUND SERVICE ALERT

Hudson Design Group LLC
1600 OSGOOD STREET
BUILDING 35 NORTH, SUITE 2-101
N. ANDOVER, MA 01845
PH: (978) 557-5553
FAX: (978) 336-5586

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SCALE: AS SHOWN | DESIGNED BY: DC | DRAWN BY: DB

Daniel P. Hamm
No. 21178
LICENSED PROFESSIONAL ENGINEER

AT&T

TITLE SHEET
(LTE)

JOB NUMBER	DRAWING NUMBER	REV
1021.01	T-1	1

GROUNDING NOTES

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.

2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.

3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.

4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.

5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS 2 AWG STRANDED COPPER FOR OUTDOOR BTS.

6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.

7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.

8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.

9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.

10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.

11. METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWS COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.

12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR – NEXLINK
SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
OWNER – AT&T MOBILITY

2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.

3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.

5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.

7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.

9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.

10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.

11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.

13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.

14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.

15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.

16. CONSTRUCTION SHALL COMPLY WITH UMTS SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T MOBILITY SITES."

17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.

19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

20. APPLICABLE BUILDING CODES:
SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
BUILDING CODE: 2003 IBC WITH 2005 CT SUPPLEMENT & 2009 CT AMENDMENTS
ELECTRICAL CODE: REFER TO ELECTRICAL DRAWINGS
LIGHTENING CODE: REFER TO ELECTRICAL DRAWINGS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION;

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARDS FOR STEEL

ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	G.C.	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
AWG	AMERICAN WIRE GAUGE	MGB	MASTER GROUND BUS		
BCW	BARE COPPER WIRE	MIN	MINIMUM	TBD	TO BE DETERMINED
BTS	BASE TRANSCEIVER STATION	PROPOSED	NEW	TBR	TO BE REMOVED
EXISTING	EXISTING	N.T.S.	NOT TO SCALE	TBRR	TO BE REMOVED AND REPLACED
EG	EQUIPMENT GROUND	REF.	REFERENCE	TYP	TYPICAL
EGR	EQUIPMENT GROUND RING	REQ.	REQUIRED		

Hudson Design Groupe LLC
1609 OSGOOD STREET
BUILDING 20 NORTH, SUITE 2-101
N. ANDOVER, MA 01845
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NEXLINK GLOBAL SERVICES
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NO.	DATE	REVISIONS	BY	CHK	APP'D
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SCALE: AS SHOWN | DESIGNED BY: DC | DRAWN BY: DB

STATE OF CONNECTICUT · DANIEL P. HAMM · No. 21178 · LICENSED PROFESSIONAL ENGINEER

AT&T

GENERAL NOTES (LTE)

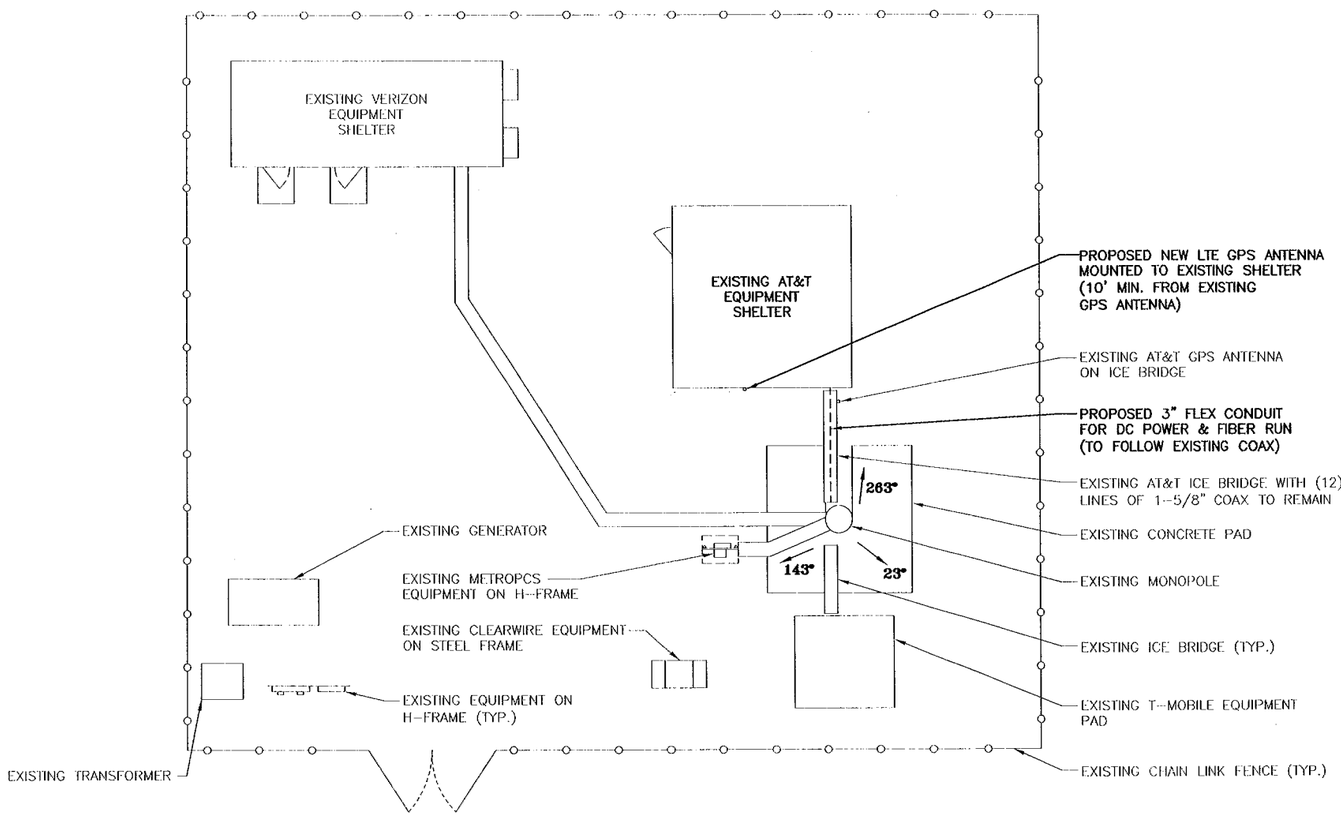
JOB NUMBER	DRAWING NUMBER	REV
1021.01	GN-1	1

NOTE:

REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:

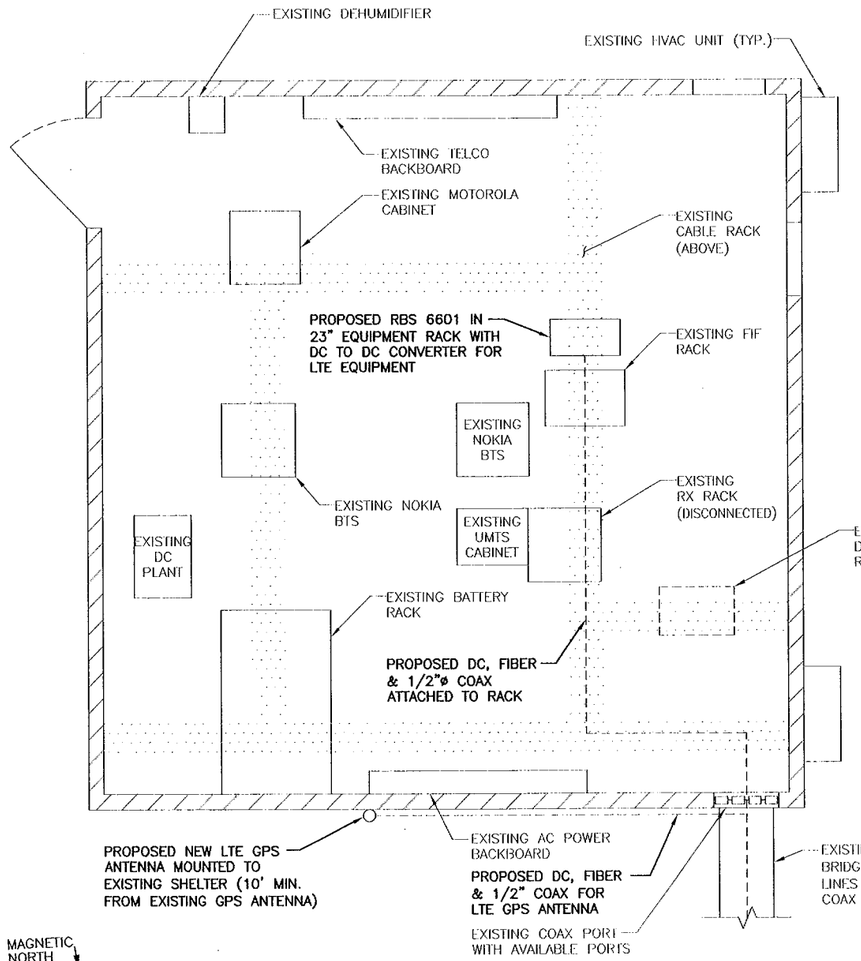
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.



COMPOUND PLAN

SCALE: 3/16"=1'-0"

0 2'-8" 5'-4" 10'-8" 16'-0"



EQUIPMENT PLAN

SCALE: 1/2"=1'-0"

0 1'-0" 2'-0" 4'-0" 6'-0"

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STATE OF CONNECTICUT — DANIEL P. HAMM — No. 21178 — LICENSED PROFESSIONAL ENGINEER

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COMPOUND & EQUIPMENT PLAN (LTE)

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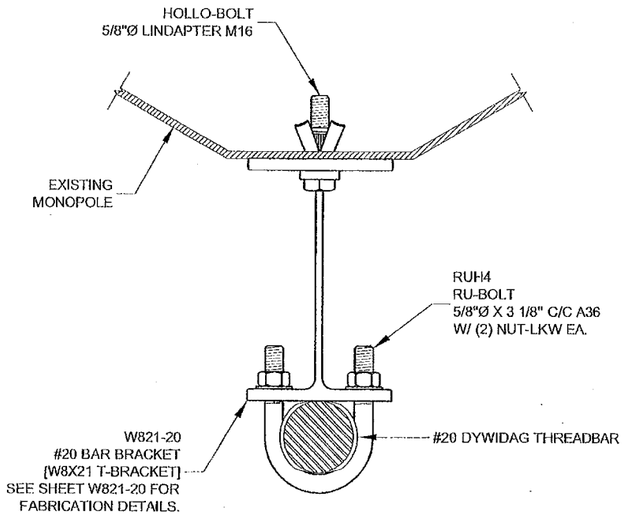
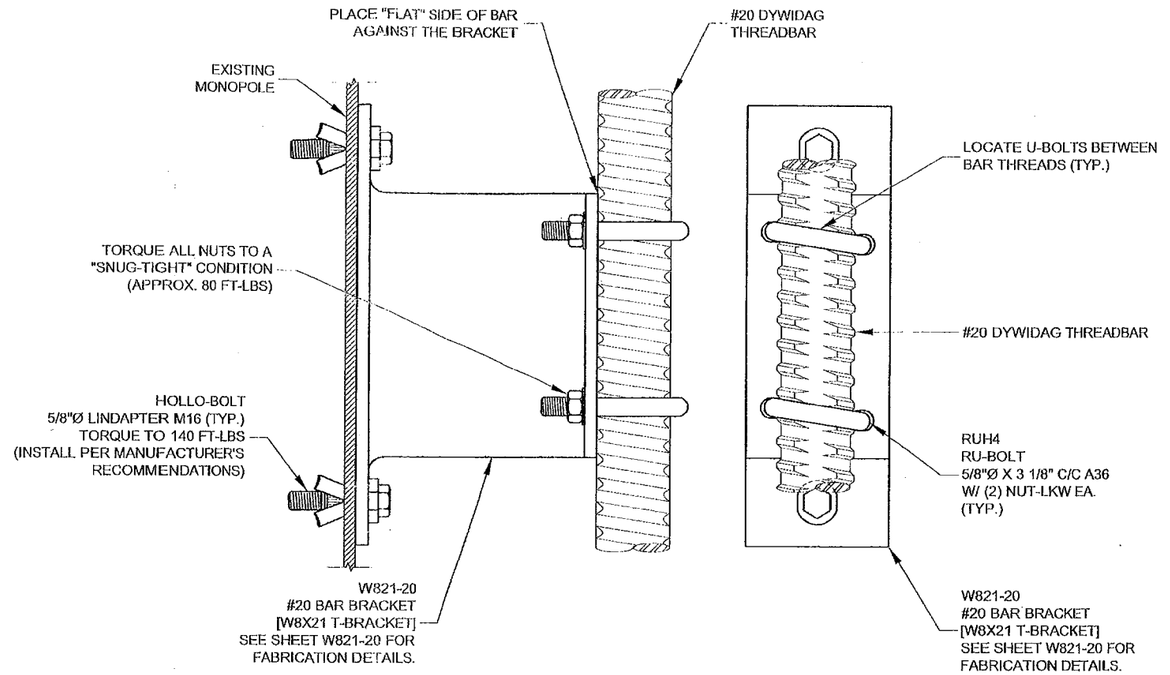
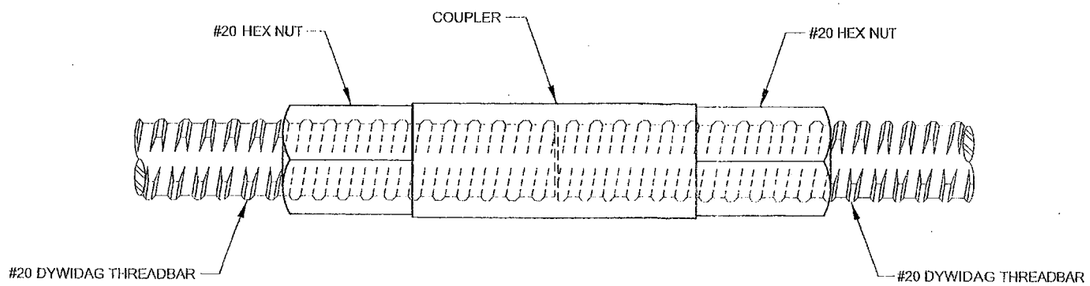


PLAN VIEW
#20 BAR BRACKET ORIENTATION
[W8X21 T-BRACKET]



ELEVATION VIEW
#20 BAR BRACKET ORIENTATION
[W8X21 T-BRACKET]



COUPLER DETAIL
TYPICAL

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REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CB	04/25/12

ATC SITE NUMBER:
302489

ATC SITE NAME:
ENFD-ENFIELD
CONNECTICUT

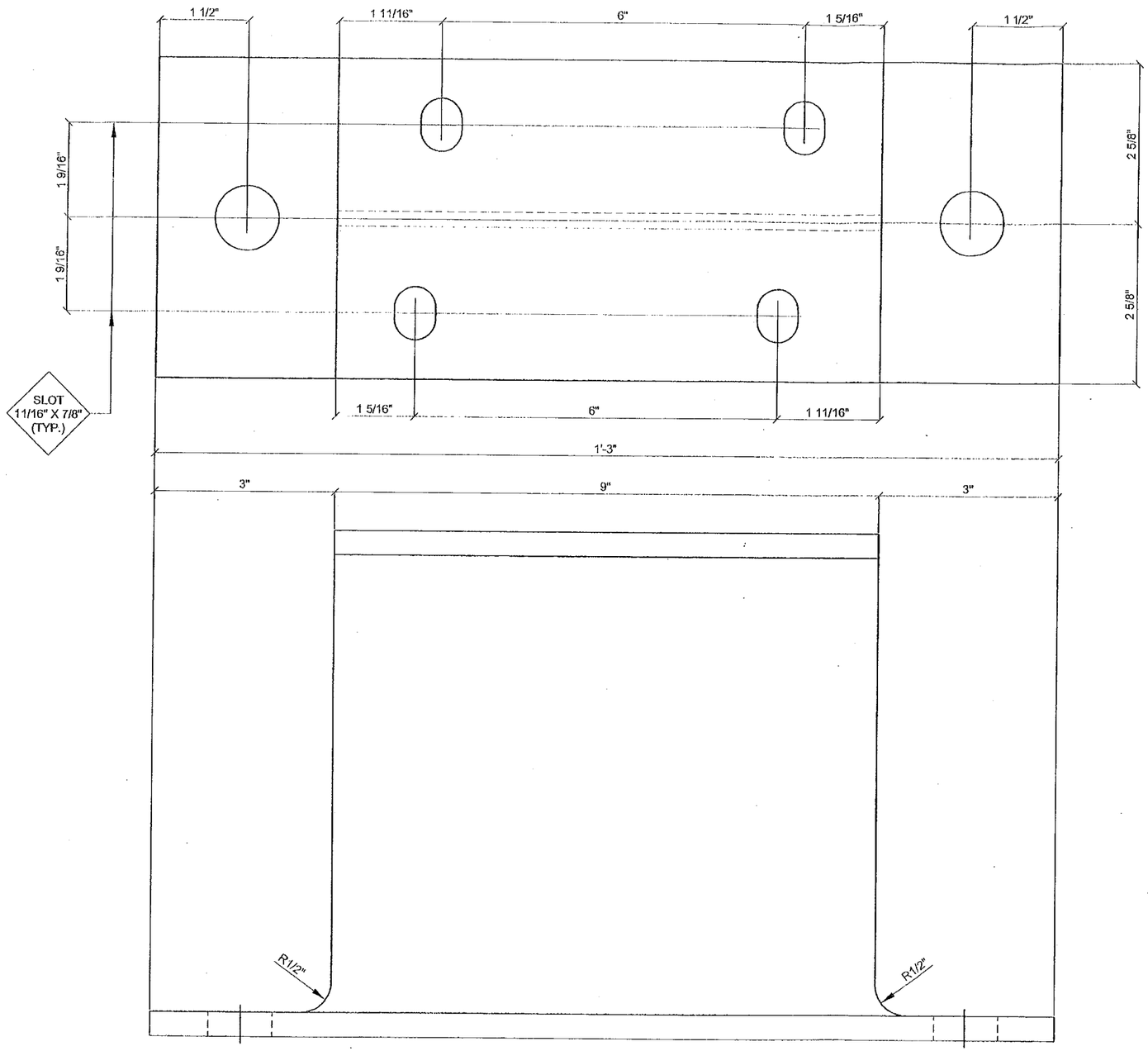
SITE ADDRESS:
TOWN FARM ROAD
ENFIELD, CT 06082

STATE OF CONNECTICUT
RAPHAEL I. MOHAMED
No. 25112
LICENSED
PROFESSIONAL ENGINEER
4/30/12

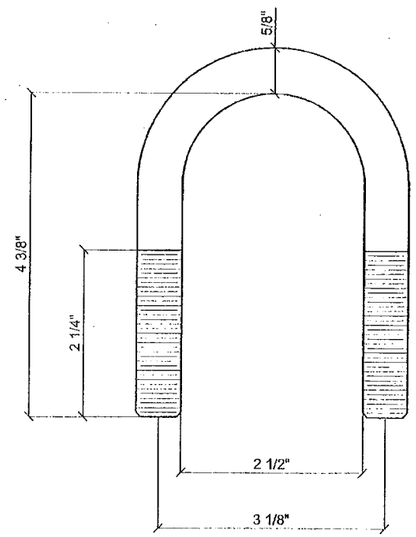
DRAWN BY:	CB
APPROVED BY:	CCS/RMS
DATE DRAWN:	04/25/12
ATC JOB NO:	48982632

SHEET TITLE:
REINFORCEMENT
INSTALLATION DETAILS
(CONT.)

SHEET NUMBER:	REV. #
A-3A	0



W821-20
#20 BAR BRACKET
[T-BRACKET]



RUH4
RU-BOLT 5/8"Ø X 3 1/8" C/C

W821-20	W8X21	1'-3"		26.3#	27.6#
PART NO.	DESCRIPTION	LENGTH	NOTES	BLK WT	GALV WT
MATERIAL: A36	FINISH: GALVANIZED		HOLES: 1 1/16"Ø U.N.O.		

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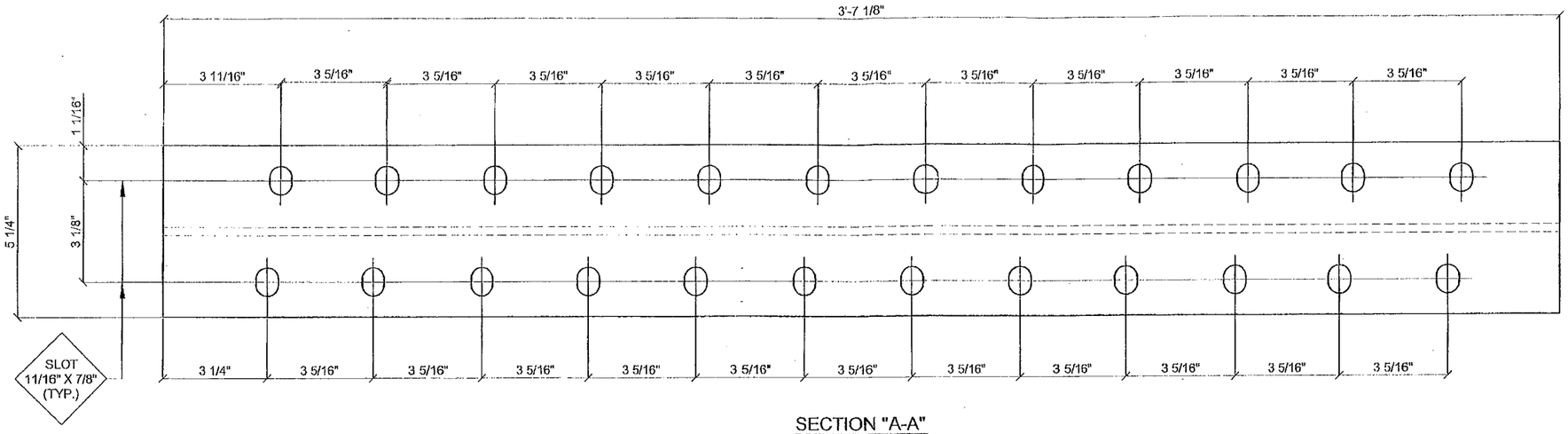
STATE OF CONNECTICUT
RAPHAEL I. MOHAMED
No. 25112
LICENSED
PROFESSIONAL ENGINEER
4/30/12

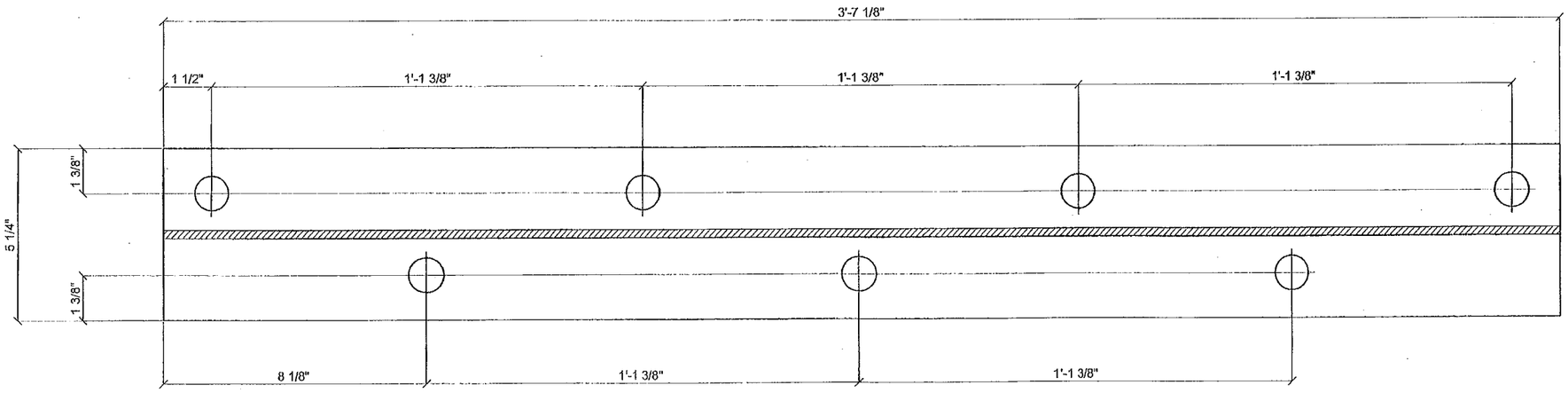
DRAWN BY:	CB
APPROVED BY:	CLJ/JMS
DATE DRAWN:	04/25/12
ATC JOB NO:	48982632

SHEET TITLE:
#20 BAR BRACKET
[W8X21 T-BRACKET]

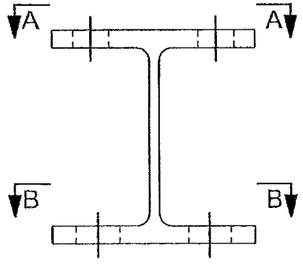
SHEET NUMBER:	REV. #
W821-20	0



SECTION "A-A"
OUTER FLANGE VIEW



SECTION "B-B"
INNER FLANGE VIEW



W821-12U
(NTS)

W821-12U	W8X21	3'-7 1/8"		75.5#	79.2#
PART NO.	DESCRIPTION	LENGTH	NOTES	BLK WT	GALV WT
MATERIAL: A36		FINISH: GALVANIZED		HOLES: 1 1/16"Ø U.N.O.	

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SUITE 300
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REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CB	04/25/12

ATC SITE NUMBER:
302489

ATC SITE NAME:
ENFD-ENFILED
CONNECTICUT

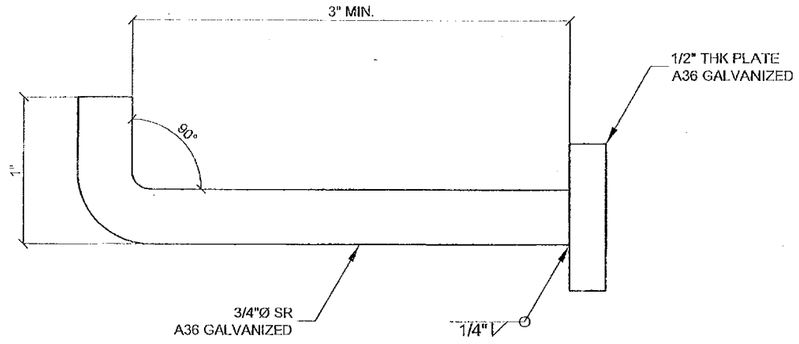
SITE ADDRESS:
TOWN FARM ROAD
ENFILED, CT 06082

STATE OF CONNECTICUT
RAPHAEL T. MOHAMED
No. 25112
LICENSED
PROFESSIONAL ENGINEER
4/30/12

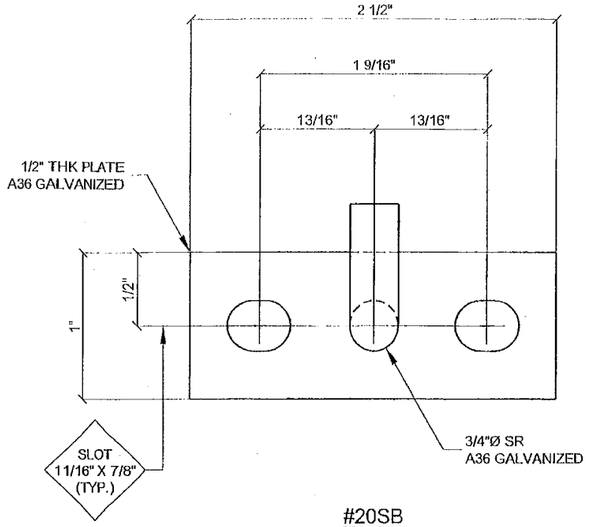
DRAWN BY:	CB
APPROVED BY:	CCS/JMS
DATE DRAWN:	04/25/12
ATC JOB NO:	48982632

SHEET TITLE:
TERMINATION BRACKET DETAILS

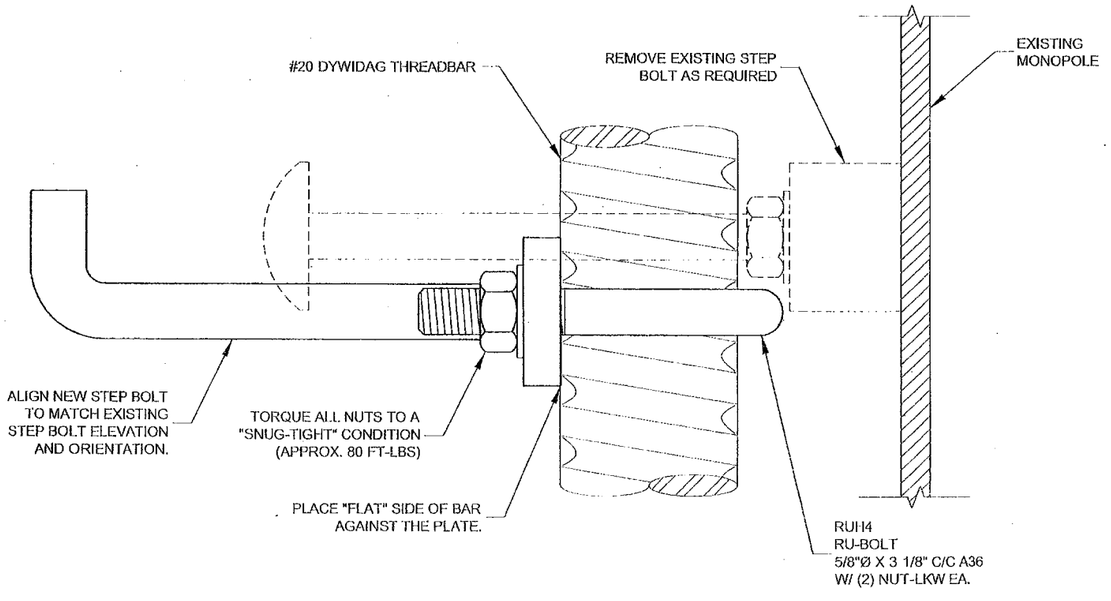
SHEET NUMBER: W821-12U
REV. # 0



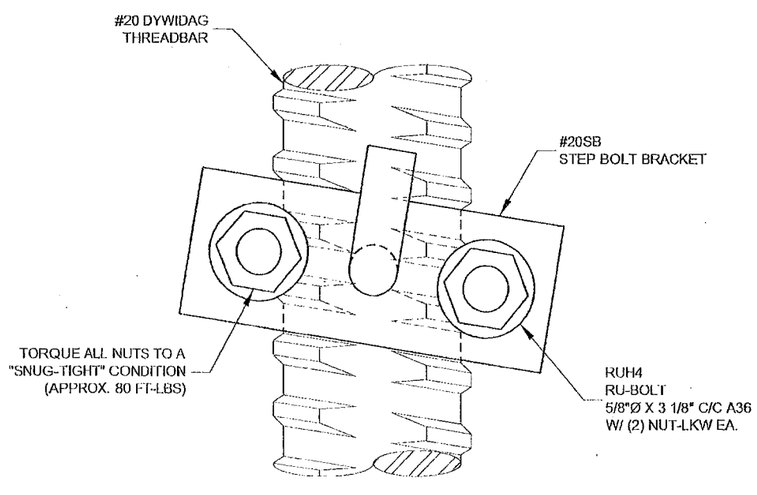
#20SB
SIDE VIEW



#20SB
FRONT VIEW



#20SB INSTALLATION DETAILS
SIDE VIEW



#20SB INSTALLATION DETAILS
FRONT VIEW

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REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CB	04/25/12

ATC SITE NUMBER:
302489

ATC SITE NAME:
ENFD-ENFIELD
CONNECTICUT

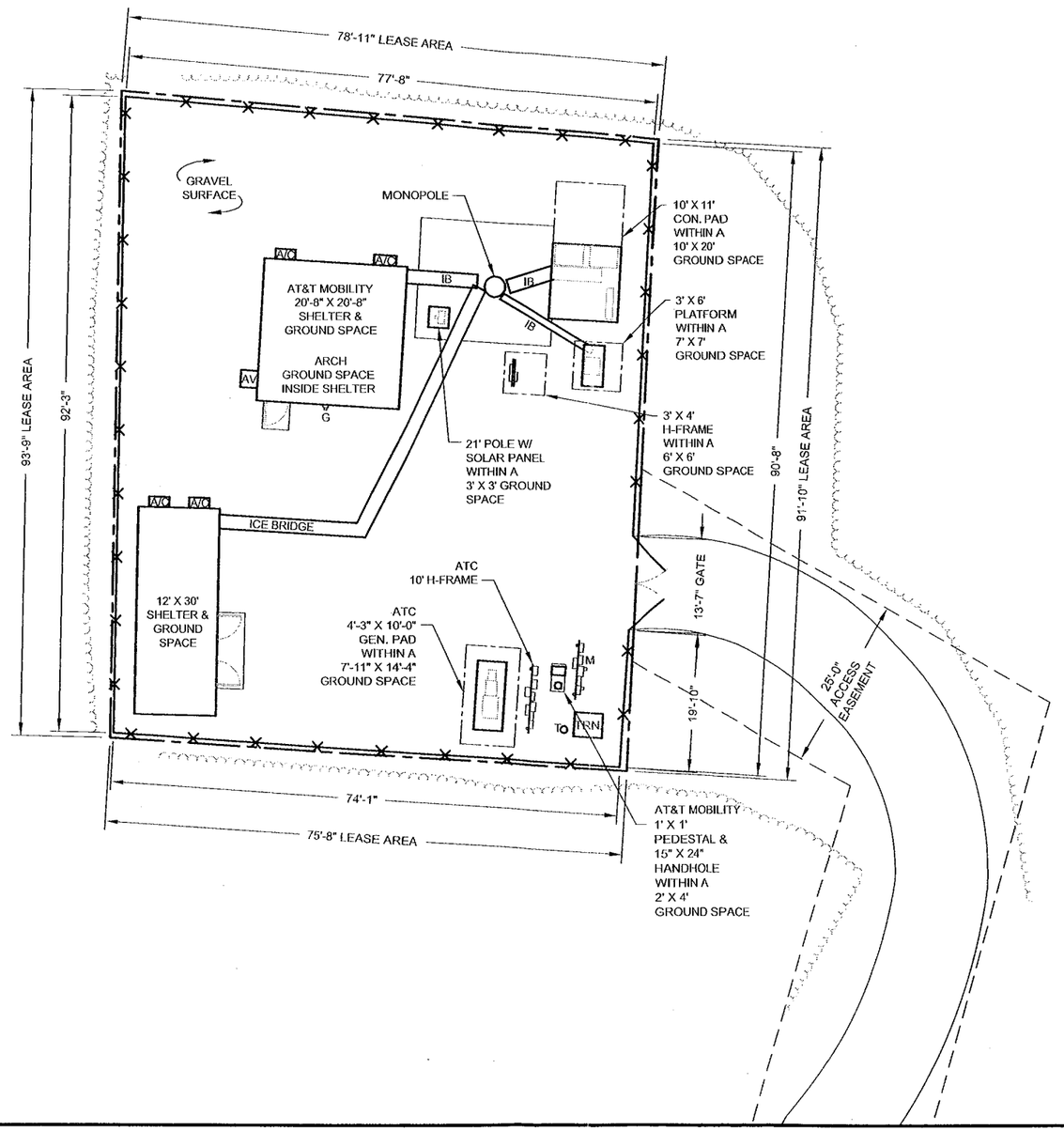
SITE ADDRESS:
TOWN FARM ROAD
ENFIELD, CT 06082

STATE OF CONNECTICUT
RAPHAEL I. MOHAMED
No. 25112
LICENSED
PROFESSIONAL ENGINEER
4/30/12

DRAWN BY:	CB
APPROVED BY:	ECJ RIM
DATE DRAWN:	04/25/12
ATC JOB NO:	48982632

SHEET TITLE:
#20 STEP BOLT BRACKET FABRICATION AND INSTALLATION DETAILS

SHEET NUMBER: #20SB
REV. # 0



GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 UNIT = 20 FEET

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DESCRIPTION
PROPOSAL

SITE NUMBER
302489

SITE NAME
ENFD - ENFIELD
CONNECTICUT

DRAWN BY:	E. L. SCHROEDER
DATE DRAWN:	6/13/2012
CUSTOMER:	AT&T MOBILITY
COLLOCATION NO.	489826

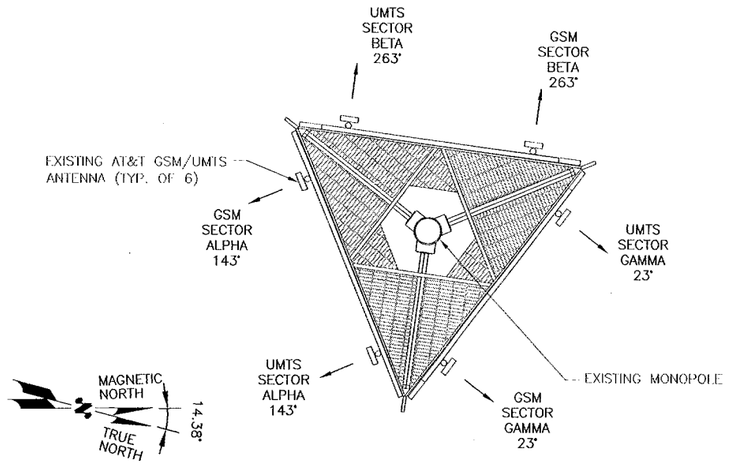
LEGEND

⊗	GROUNDING TEST WELL
A/C	AIR CONDITIONING UNIT
A/V	AIR VENT
B	BOLLARD
C	CABINET
CS	COAX SHROUD
CFC	FIBER OPTIC CABINET
E	ELECTRICAL
F	FIBER
HH	HAND HOLE
GEN	GENERATOR
G	GENERATOR RECEPTACLE
IB	ICE BRIDGE
LC	LIGHTING CONTROL
LPG	LIQUID PROPANE GAS
M	METER
OHW	OVERHEAD WIRE
P	POWER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
W	WATER VALVE
– – – –	BUFFER
—·—·—	GROUND SPACE (LEASE AREA)
– – – –	EASEMENT

DIMENSIONS NOT VERIFIED BY LICENSED SURVEYOR

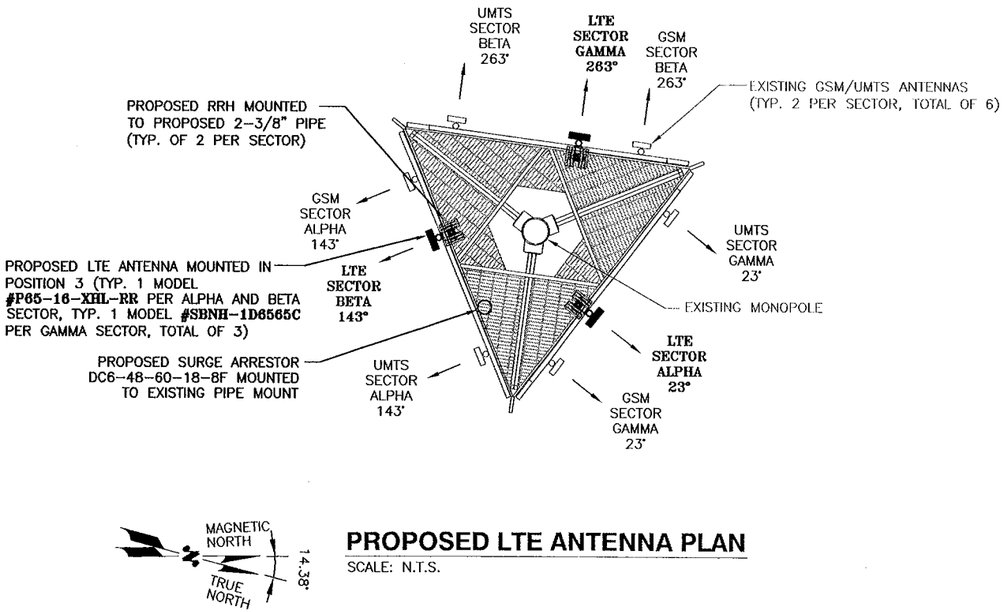
SHEET TITLE:
SITE PLAN LAYOUT

SHEET NUMBER:	SITE AUDITED BY
SP-1	ELS ON 6/13/2012



EXISTING GSM/UMTS ANTENNA PLAN

SCALE: N.T.S.



PROPOSED LTE ANTENNA PLAN

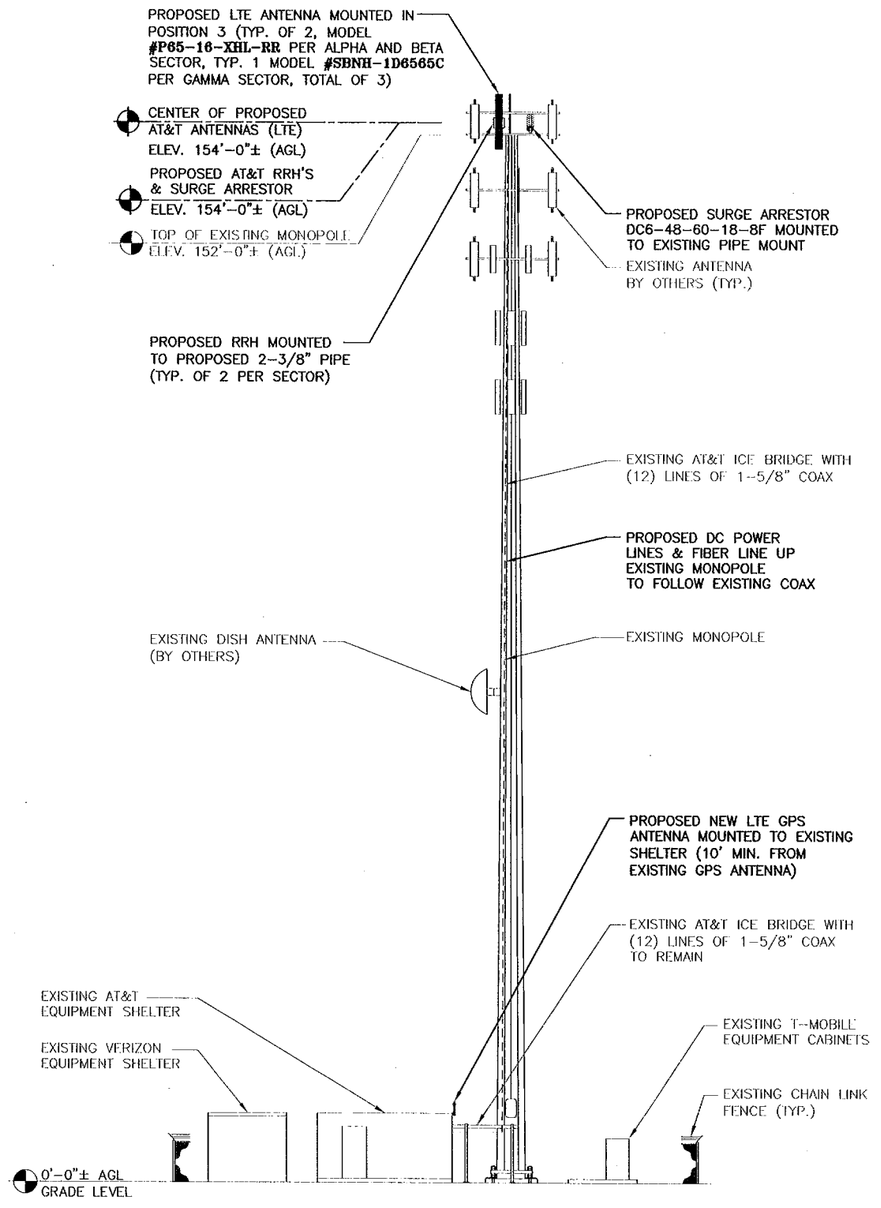
SCALE: N.T.S.

NOTE:

REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:

AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.



SOUTH ELEVATION

SCALE: 3/32"=1'-0"

0 5'-4" 10'-8" 21'-4" 32'-0"

Hudson Design Groupe
1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 2-101
N. ANDOVER, MA 01845
TEL: (978) 557-5552
FAX: (978) 336-5586

NEXLINK GLOBAL SERVICES
a UniTek GLOBAL SERVICES company
800 MARSHALL PHELPS ROAD UNIT#: 2A
WINDSOR, CT 06095

SITE NUMBER: CT1021
SITE NAME: ENFIELD
TOWN FARM ROAD
ENFIELD, CT 06082
HARTFORD COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

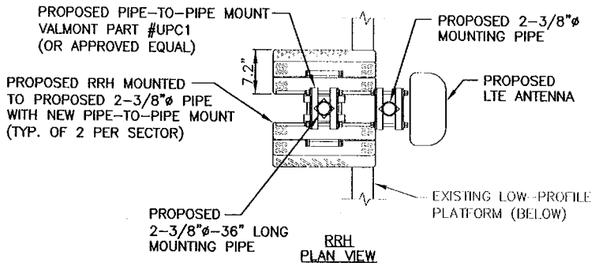
NO.	DATE	REVISIONS	BY	CHK	APP'D
1	04/04/12	FOR CONSTRUCTION			
0	03/02/12	ISSUED FOR REVIEW	DB	DC	DPH

SCALE: AS SHOWN | DESIGNED BY: DC | DRAWN BY: DB

STATE OF CONNECTICUT DANIEL P. HAMM No. 24178 LICENSED PROFESSIONAL ENGINEER

AT&T
ANTENNA LAYOUT AND ELEVATION (LTE)

JOB NUMBER	DRAWING NUMBER	REV
1021.01	A-2	1



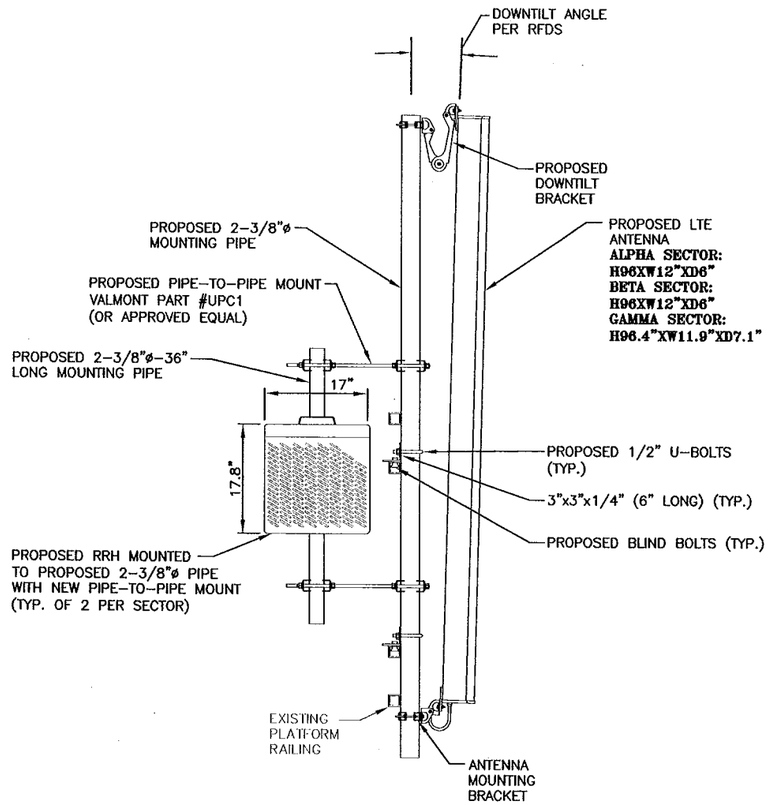
RRH
PLAN VIEW

NOTE:

REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

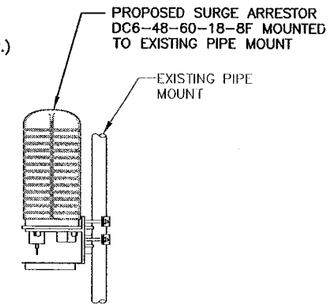
NOTE:

AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.

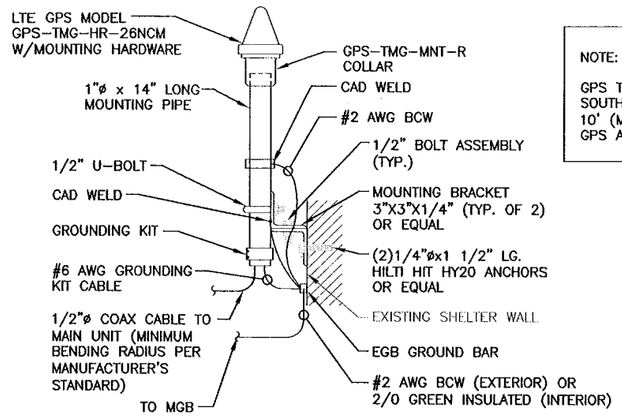


PROPOSED RRH & SURGE ARRESTOR MOUNTING DETAIL

SCALE: N.T.S.



SURGE ARRESTOR
SIDE VIEW

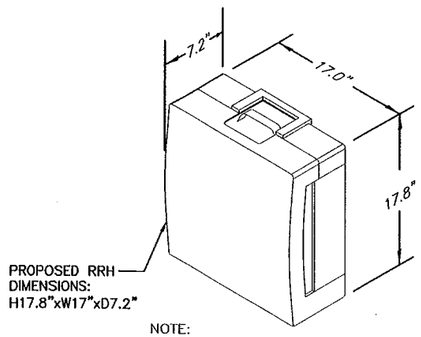


NOTE:

GPS TO BE MOUNTED WITH SOUTHWESTERN EXPOSURE, 10' (MIN.) FROM EXISTING GPS ANTENNA.

GPS MOUNTED TO WALL

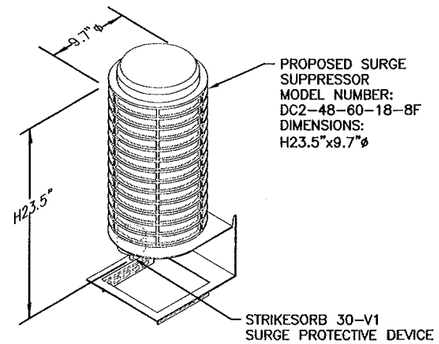
SCALE: N.T.S.



NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

RRH DETAIL

SCALE: N.T.S.



NOTE:
MOUNT PER MANUFACTURE'S SPECIFICATIONS.

DC SURGE SUPPRESSOR DETAIL

SCALE: N.T.S.

Hudson Design Group LLC
1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 2-101
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5566

NEXLINK GLOBAL SERVICES
a UniTek GLOBAL SERVICES company
800 MARSHALL PHELPS ROAD UNIT#: 2A
WINDSOR, CT 06095

SITE NUMBER: CT1021
SITE NAME: ENFIELD
TOWN FARM ROAD
ENFIELD, CT 06082
HARTFORD COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	04/04/12	FOR CONSTRUCTION	DB	DC	DPH
0	03/02/12	ISSUED FOR REVIEW	DB	DC	DPH

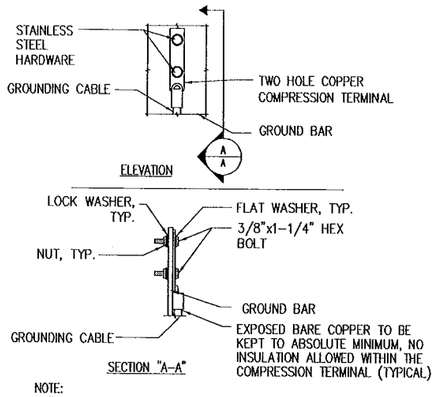
SCALE: AS SHOWN | DESIGNED BY: DC | DRAWN BY: DB

STATE OF CONNECTICUT · TANNER P. HAMM · No. 21178 · LICENSED PROFESSIONAL ENGINEER

AT&T

DETAILS
(LTE)

JOB NUMBER	DRAWING NUMBER	REV
1021.01	A-3	1

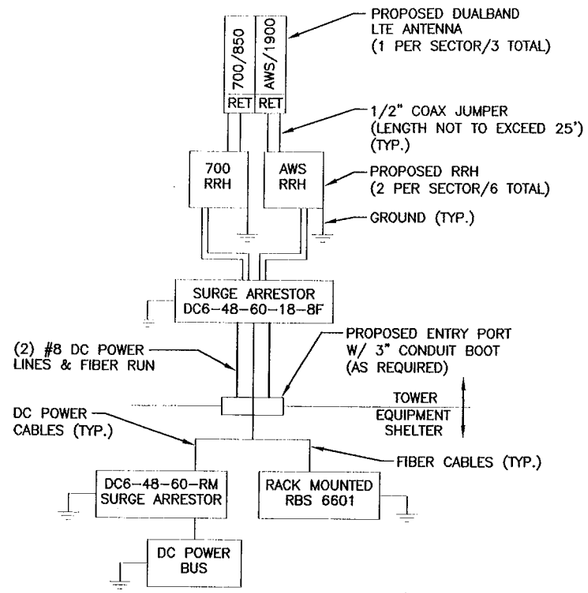


NOTE:
1. "DOUBLING UP" OR "STACKING " OF CONNECTION IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
3. CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB, AND MGB.

TYPICAL GROUND BAR CONNECTION DETAIL

1

N.T.S.



NOTES:

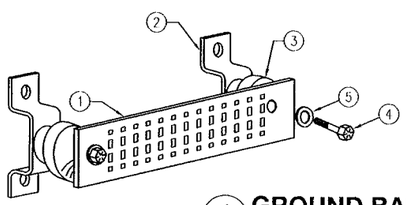
1. CONTRACTOR TO CONFIRM ALL PARTS.
2. INSTALL ALL EQUIPMENT TO MANUFACTURER'S RECOMMENDATIONS.

PLUMBING DIAGRAM

2

N.T.S.

WIRELESS SOLUTIONS INC.			
NO.	REQ.	PART NO.	DESCRIPTION
1	1	HLGB-0420-IS	SOLID GND. BAR (20"x4"x1/4")
2	2	———	WALL MTG. BRKT.
3	2	———	INSULATORS
4	4	———	5/8"-11x1" H.H.C.S.
5	4	———	5/8 LOCKWASHER



EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

SECTION "P" - SURGE PRODUCERS

CABLE ENTRY PORTS (HATCH PLATES) (#2)
GENERATOR FRAMEWORK (IF AVAILABLE) (#2)
TELCO GROUND BAR
COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
+24V POWER SUPPLY RETURN BAR (#2)
-48V POWER SUPPLY RETURN BAR (#2)
RECTIFIER FRAMES.

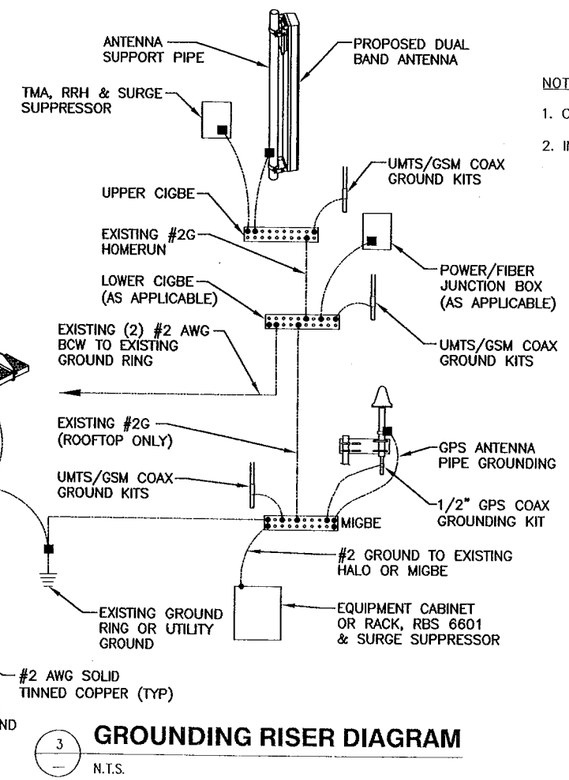
SECTION "A" - SURGE ABSORBERS

INTERIOR GROUND RING (#2)
EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2)
METALLIC COLD WATER PIPE (IF AVAILABLE) (#2)
BUILDING STEEL (IF AVAILABLE) (#2)

GROUND BAR - DETAIL

4

N.T.S.



GROUNDING RISER DIAGRAM

3

N.T.S.

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1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 2-101
N. ANDOVER, MA 01845
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FAX: (978) 336-5586

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a UniTek GLOBAL SERVICES company
800 MARSHALL PHELPS ROAD UNIT#: 2A
WINDSOR, CT 06095

SITE NUMBER: CT1021
SITE NAME: ENFIELD
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HARTFORD COUNTY

at&t
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ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	04/04/12	FOR CONSTRUCTION	DB	DC	DPH
0	03/02/12	ISSUED FOR REVIEW	DB	DC	DPH

SCALE: AS SHOWN | DESIGNED BY: DC | DRAWN BY: DB

STATE OF CONNECTICUT — DANIEL P. HEHIR — No. 21178 — LICENSED PROFESSIONAL ENGINEER

AT&T

PLUMBING DIAGRAM & GROUNDING DETAILS (LTE)

JOB NUMBER	DRAWING NUMBER	REV
1021.01	G-1	1

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302489 - ENFD-ENFIELD, CONNECTICUT

150 FT ITT MEYER MONOPOLE MODIFICATIONS

PROJECT DESCRIPTION:

THE MODIFICATIONS PRESENTED ON THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE STRUCTURAL ANALYSIS COMPLETED UNDER ENGINEERING PROJECT NUMBER 48982621 DATED 03/26/12. SATISFACTORY COMPLETION OF THE WORK INDICATED ON THESE DRAWINGS WILL RESULT IN THE STRUCTURE MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE STRUCTURAL WAS COMPLETED.

AS-BUILT SIGN-OFF		
DESCRIPTION	SIGNATURE	DATE
CONTRACTOR NAME		
CONTRACTOR REP. (PRINT NAME)		
CONTRACTOR REP. (SIGNATURE)		
REDEVELOPMENT P.M. (PRINT NAME)		
REDEVELOPMENT P.M. (SIGNATURE)		

PROJECT SUMMARY

ATC PROJECT NUMBER: 48982632

CUSTOMER: AT&T MOBILITY

CUSTOMER SITE NUMBER: 10034985/CT1021

CUSTOMER SITE NAME: ENFIELD

SITE ADDRESS: TOWN FARM ROAD
ENFIELD, CT 06082

DATE: 04/25/12

REVISION: 0

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4/30/12

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the state of Connecticut.

SHEET	SHEET TITLE	REV.
BOM	BILL OF MATERIALS (1 PAGE)	0
IGN	IBC GENERAL NOTES	0
A-1	MODIFICATION PROFILE	0
A-2	FOUNDATION DETAILS	0
A-3	REINFORCEMENT INSTALLATION DETAILS	0
A-3A	REINFORCEMENT INSTALLATION DETAILS (CONT'D)	0
W821-20	#20 BAR BRACKET [W8X21 T-BRACKET]	0
W821-12U	#20 BAR TERMINATION BRACKET [T-BRACKET]	0
#20SB	#20 STEP BOLT BRACKET FABRICATION AND INSTALLATION DETAILS	0

BILL OF MATERIALS

QUANTITY REQUIRED	QUANTITY PROVIDED	PART NUMBER	DESCRIPTION	LENGTH	SHEET LIST	PART WEIGHT	WEIGHT (lb)	NOTES
			MATERIAL & HARDWARE					
			DYWIDAG REINFORCEMENT MATERIAL & HARDWARE					
4	4	---	#20 DYWIDAG THREADBAR	30'-0"	A-1, A-3	501.0	2004	GALVANIZED
4	4	---	#20 DYWIDAG THREADBAR	9'-2"	A-1, A-3	153.0	612	GALVANIZED
4	4	---	#20 COUPLER W/ (2) HEX NUTS EA.	---	---	---	---	GALVANIZED
32	32	W821-20	W8X21	1'-3"	A-3, W821-20	27.6	883	#20 T-BRACKET
8	8	W821-12U	W8X21	3'-7 1/8"	A-3, W821-12U	79.2	634	#20 T-BRACKET
160	168	RUH4	RU-BOLT, 5/8"Ø X 3 1/8" C/C	---	W821-20	---	---	(2) HHN-LKW / GALVANIZED
120	126	---	HOLLO-BOLT, 5/8"Ø (M16) LINDAPTER	---	---	---	---	GALVANIZED
10	10	#20SB	STEP BOLT WELDMENT	0'-7 1/4"	#20SB	2.5	25	
						TOTAL WEIGHT (lb)	4,158	

PAGE 1 OF 1

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SUITE 300
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REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CB	04/25/12
1			
2			
3			
4			

ATC SITE NUMBER:
302489

ATC SITE NAME:
ENFD-ENFIELD
CONNECTICUT

SITE ADDRESS:
TOWN FARM ROAD
ENFIELD, CT 06082

STATE OF CONNECTICUT
RAPHAEL I. MOHAMED
No. 25112
LICENSED
PROFESSIONAL ENGINEER
4/30/12

DRAWN BY:	CB
APPROVED BY:	CCJ/JMS
DATE DRAWN:	04/25/12
ATC JOB NO:	48982632

SHEET TITLE:
BILL OF MATERIALS

SHEET NUMBER: BOM

REV. # 0

GENERAL

1. ALL METHODS, MATERIALS AND WORKMANSHIP SHALL FOLLOW THE DICTATES OF GOOD CONSTRUCTION PRACTICE.
2. ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TOWER AND FOUNDATION CONSTRUCTION.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY INSTALLATION INTERFERENCES. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW SIMILAR DETAILS FOR THIS JOB.
4. ANY SUBSTITUTIONS MUST CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
5. ANY MANUFACTURED DESIGN ELEMENTS MUST CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS AND SHOULD BE SIMILAR TO THOSE SHOWN. THESE DESIGN ELEMENTS MUST BE STAMPED BY AN ENGINEER PROFESSIONALLY REGISTERED IN THE STATE OF THE PROJECT, AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL CODES AND OSHA SAFETY REGULATIONS.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY, PER TIA-1019-A-2011, TO PROVIDE A COMPLETE AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.
8. CONTRACTOR'S PROPOSED INSTALLATION SHALL NOT INTERFERE, NOR DENY ACCESS TO, ANY EXISTING OPERATIONAL AND SAFETY EQUIPMENT.

STRUCTURAL STEEL

1. ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS, LATEST EDITION.
2. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
3. ALL U-BOLTS SHALL BE ASTM A307 OR EQUIVALENT, WITH LOCKING DEVICE, UNLESS NOTED OTHERWISE.
4. FIELD CUT EDGES, EXCEPT DRILLED HOLES, SHALL BE GROUND SMOOTH.
5. ALL FIELD CUT SURFACES AND FIELD DRILLED HOLES SHALL BE REPAIRED WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
6. ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.

WELDING

1. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
2. ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE (100% IF REJECTABLE DEFECTS ARE FOUND) TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
3. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
4. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
5. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
6. PRIOR TO FIELD WELDING GALVANIZED MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.

BOLT TIGHTENING PROCEDURE

1. STRUCTURAL CONNECTIONS TO BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC-2004 (SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM A490 BOLTS.)
2. TIGHTEN FLANGE BOLTS BY AISC "TURN-OF-THE-NUT" METHOD, USING THE CHART BELOW:

BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS

1/2"	BOLTS UP TO AND INCLUDING 2.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
5/8"	BOLTS UP TO AND INCLUDING 2.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
3/4"	BOLTS UP TO AND INCLUDING 3.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
7/8"	BOLTS UP TO AND INCLUDING 3.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1"	BOLTS UP TO AND INCLUDING 4.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS UP TO AND INCLUDING 4.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS UP TO AND INCLUDING 5.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-3/8"	BOLTS UP TO AND INCLUDING 5.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/2"	BOLTS UP TO AND INCLUDING 6.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT

BOLT LENGTHS OVER FOUR DIAMETERS BUT NOT EXCEEDING EIGHT DIAMETERS

1/2"	BOLTS 2.25 TO 4.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
5/8"	BOLTS 2.75 TO 5.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
3/4"	BOLTS 3.25 TO 6.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
7/8"	BOLTS 3.75 TO 7.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1"	BOLTS 4.25 TO 8.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS 4.75 TO 9.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS 5.25 TO 10.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-3/8"	BOLTS 5.75 TO 11.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/2"	BOLTS 6.25 TO 12.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT

3. SPLICE BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8.2.1 OF THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS", LOCATED IN THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS:

   FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8.2.1 THROUGH 8.2.4.

   8.2.1 TURN-OF-NUT PRETENSIONING
   BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1, UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOWING THIS INITIAL OPERATION ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION SPECIFIED ABOVE. DURING THE TIGHTENING OPERATION THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS SYSTEMATICALLY.

4. ALL OTHER BOLTED CONNECTIONS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1 OF THE SPECIFICATION.

   ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS. BOLTS SHALL BE PLACED IN ALL HOLES WITH WASHERS POSITIONED AS REQUIRED AND NUTS THREADED TO COMPLETE THE ASSEMBLY. COMPACTING THE JOINT TO THE SNUG-TIGHT CONDITION SHALL PROGRESS SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT. THE SNUG-TIGHTENED CONDITION IS THE TIGHTNESS THAT IS ATTAINED WITH A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.

PAINT

1. AS REQUIRED, CLEAN AND PAINT PROPOSED STEEL ACCORDING TO FAA ADVISORY CIRCULAR AC 70/7460-1K.

APPLICABLE CODES AND STANDARDS

1. ANSI/TIA: STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES, 222-G EDITION.
2. 2003 INTERNATIONAL BUILDING CODE WITH 2005 CONNECTICUT SUPPLEMENTS AND 2009 CONNECTICUT AMENDMENTS.
3. ACI 318: AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, 318-02.
4. CRSI: CONCRETE REINFORCING STEEL INSTITUTE, MANUAL OF STANDARD PRACTICE, LATEST EDITION.
5. AISC: AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.
6. AWS: AMERICAN WELDING SOCIETY D1.1, STRUCTURAL WELDING CODE, LATEST EDITION.

SPECIAL INSPECTION

1. A QUALIFIED INDEPENDENT TESTING LABORATORY, EMPLOYED BY THE OWNER, SHALL PERFORM INSPECTION AND TESTING IN ACCORDANCE WITH IBC 2003, SECTION 1704 AS REQUIRED BY PROJECT SPECIFICATIONS FOR THE FOLLOWING CONSTRUCTION WORK:
   a) STRUCTURAL WELDING (CONTINUOUS INSPECTION OF FIELD WELD ONLY)
   b) HIGH STRENGTH BOLTS (PERIODIC INSPECTION OF A325 EXTENSION FLANGE BOLTS TO BE TIGHTENED PER "TURN-OF-THE-NUT" METHOD)
2. THE INSPECTION AGENCY SHALL SUBMIT INSPECTION AND TEST REPORTS TO THE BUILDING DEPARTMENT, THE ENGINEER OF RECORD, AND THE OWNER IN ACCORDANCE WITH IBC 2003, SECTION 1704, UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM SUCH WORK WITHOUT THE SPECIAL INSPECTIONS.

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ATC JOB NO:	48982632

SHEET TITLE:
IBC GENERAL NOTES

SHEET NUMBER:	REV. #
IGN	0

AT&T MOBILITY
EL: 154.0' & 152.0' [PROPOSED RECO]
USA MOBILITY
EL: 150.0' [EXISTING]

EL: 150.0'
[TOP OF STRUCTURE]

ENERTRAC
EL: 144.0' [EXISTING]
T-MOBILE
EL: 140.0' [EXISTING]

SECTION 4

VERIZON
EL: 130.0' [EXISTING]

YOUGHIOGHENY
EL: 122.0' [EXISTING]

CLEARWIRE
EL: 112.0' [EXISTING]

EL: 110.0'

SECTION 3

EL: 73.5'

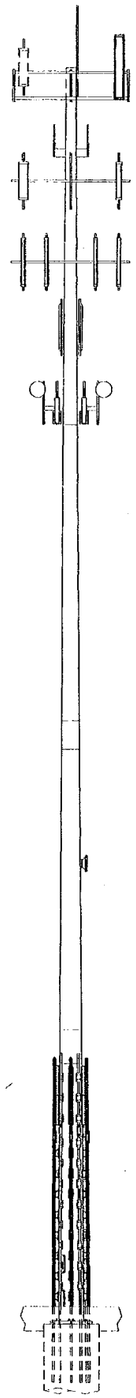
USA MOBILITY
EL: 56.0' [EXISTING]

SECTION 2

EL: 35.7'

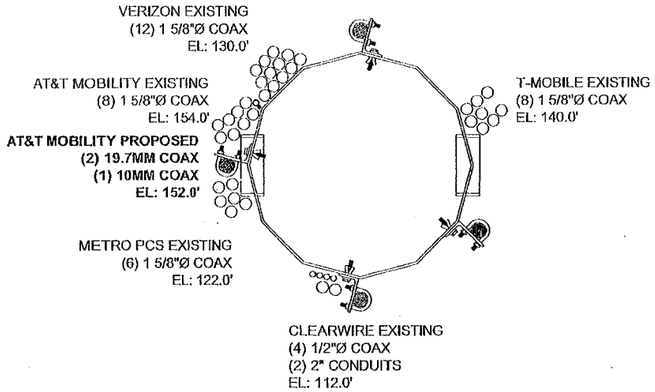
SECTION 1

EL: 0.0'
[BOTTOM OF STRUCTURE]



INSTALL (4) #20 DYWIDAG REINFORCEMENT BARS FROM EL: -7.5' TO 31.7'. SEE SHEET A-2, A-3 & A-3A FOR INSTALLATION DETAILS.

TOWER ELEVATION VIEW
[EXISTING REINFORCEMENT PARTIALLY SHOWN FOR CLARITY]



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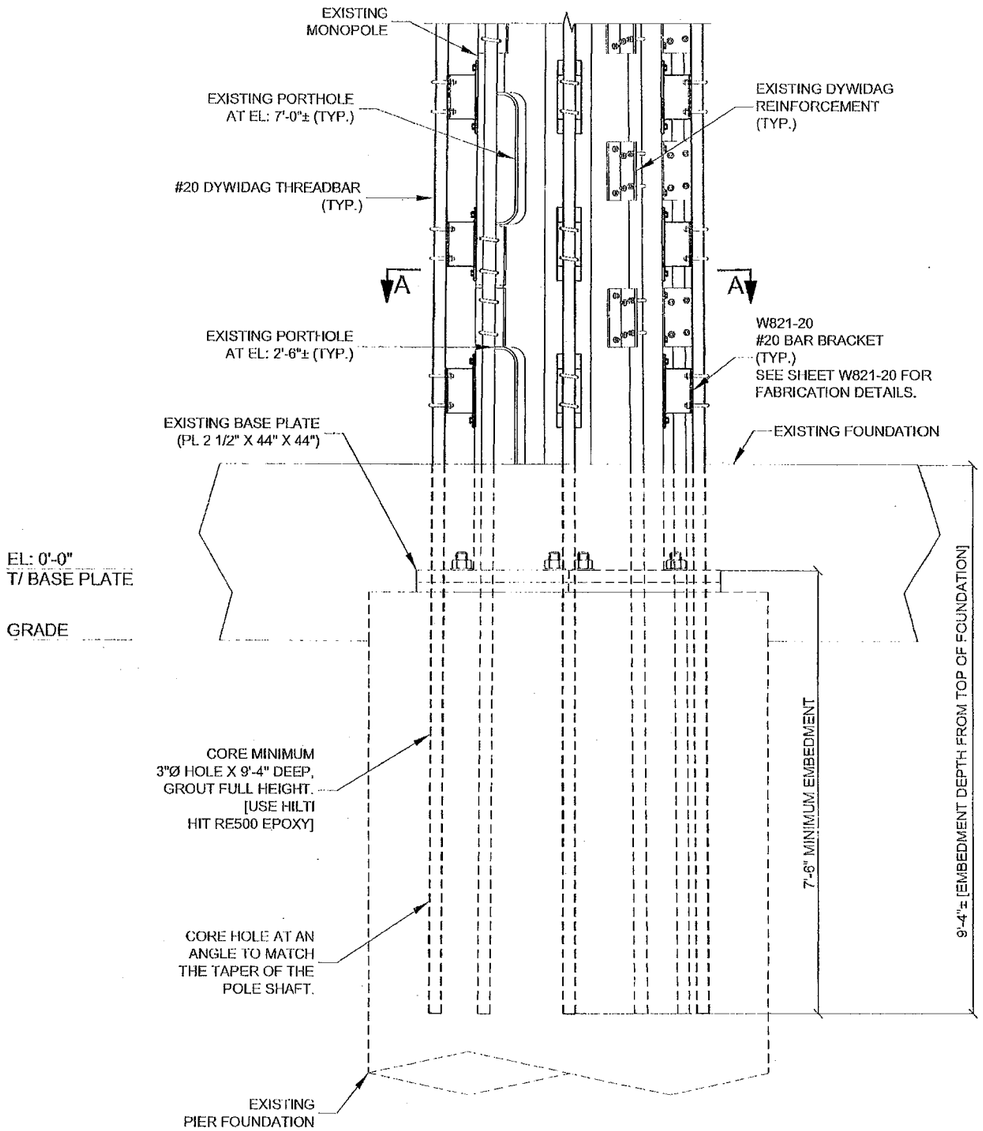
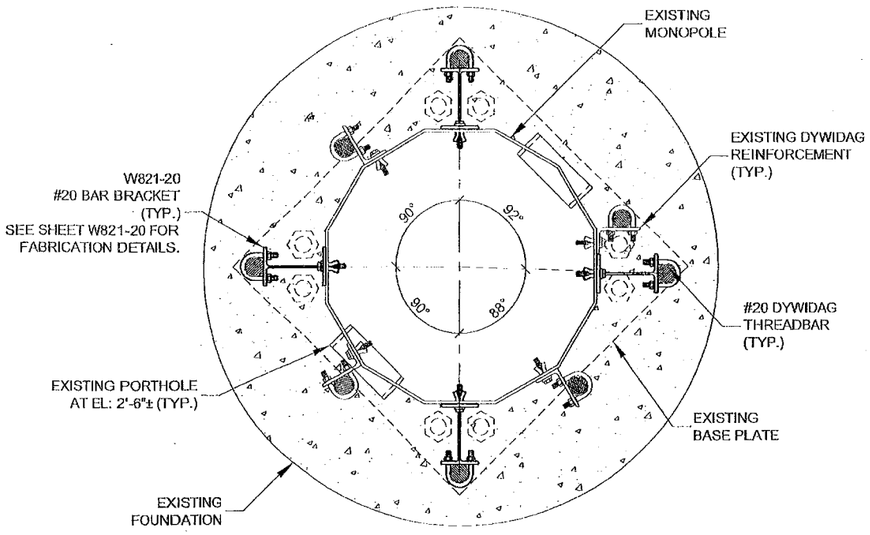
ATC JOB NO:	48982632

SHEET TITLE:
MODIFICATION PROFILE

SHEET NUMBER:	REV. #
A-1	0

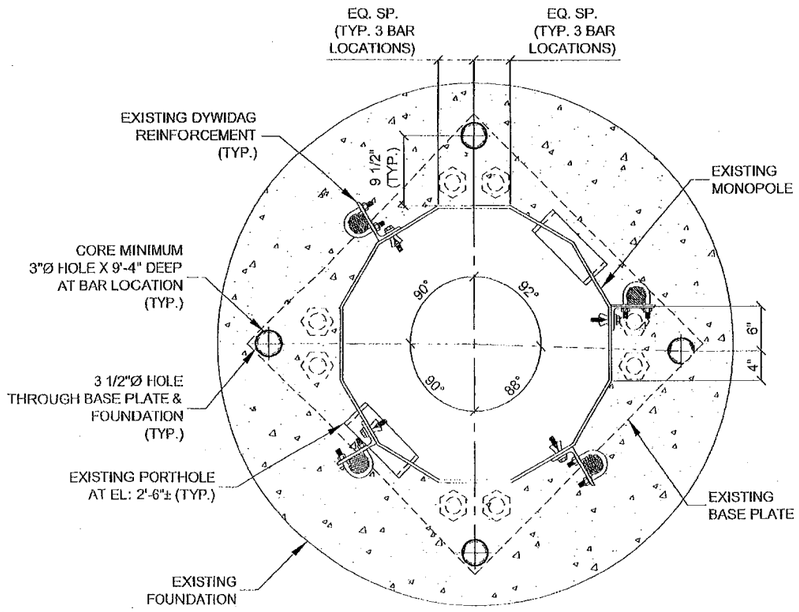


ELEVATION VIEW
FOUNDATION DETAIL



PLAN VIEW
SECTION "A-A"

NOTE:
DO NOT CUT ANY EXISTING REBAR TIES IN THE CAISSON.



PLAN VIEW
HOLE DRILL DETAIL

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SHEET TITLE:
FOUNDATION DETAILS

SHEET NUMBER: A-2
REV. #: 0

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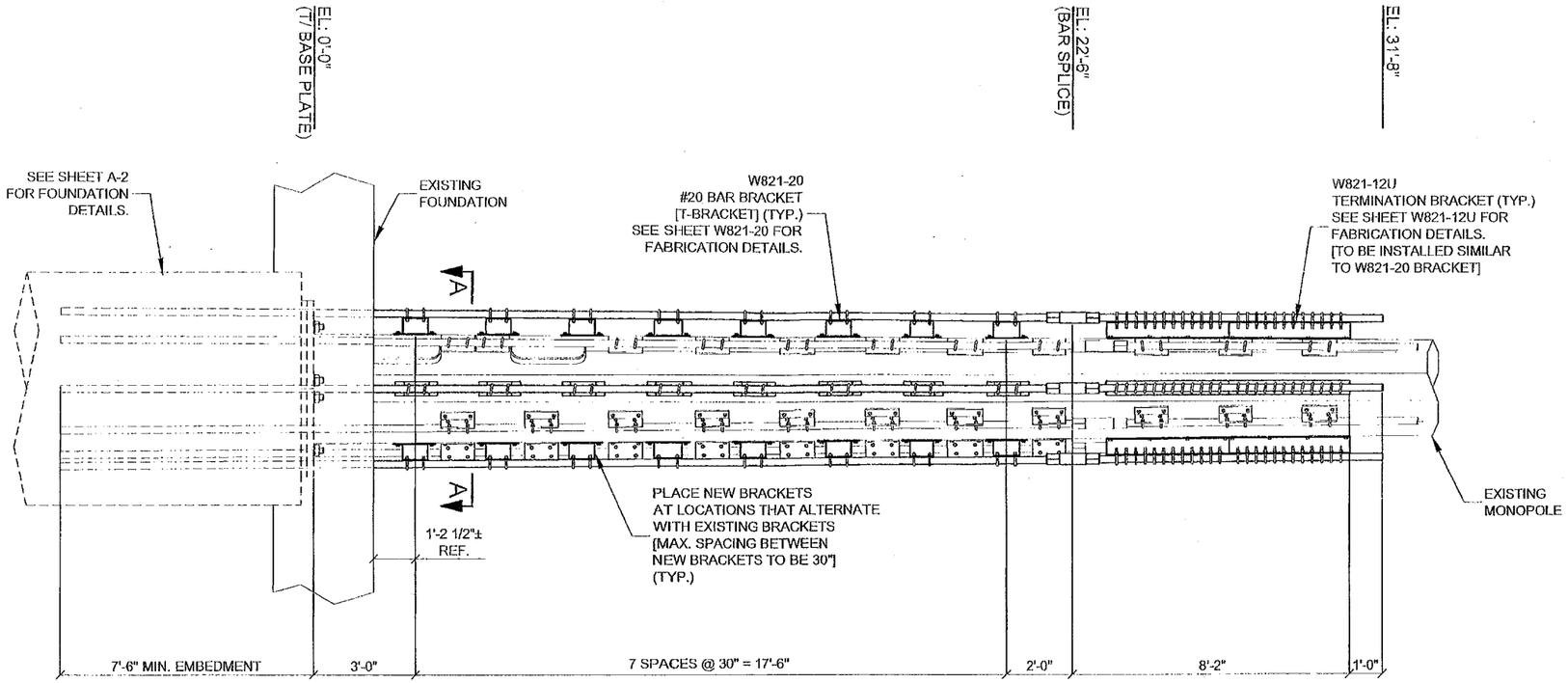
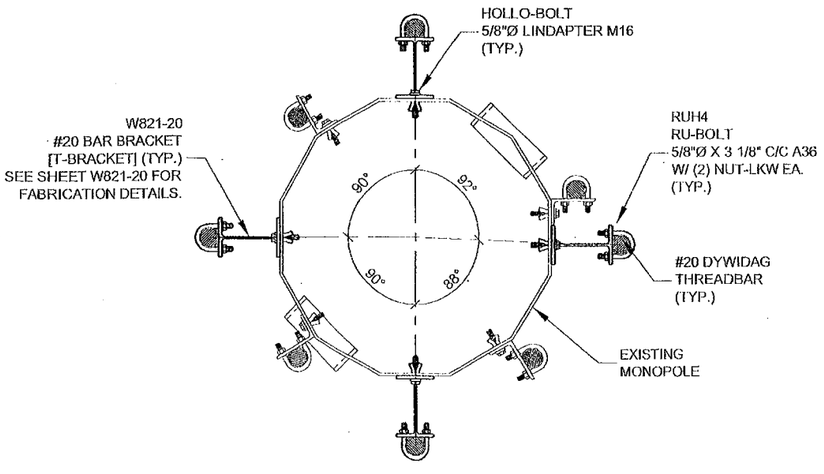


ELEVATION VIEW
#20 BAR BRACKET SPACING DETAIL



SECTION "A-A"
TYPICAL DETAIL

NOTES:
1. REPLACE ANY EXISTING STEP BOLTS THAT INTERFERE WITH NEW REINFORCING BARS. THE NEW STEP SHALL BE ATTACHED TO THE REINFORCING BARS IN THE SAME APPROXIMATE LOCATION. SEE SHEET #20SB FOR INSTALLATION DETAILS.
2. PLACE A BRACKET (W821-20) DIRECTLY ABOVE AND BELOW ANY EXISTING PORTHOLE AS REQUIRED.
3. SEE SHEET A-3A FOR #20 BAR BRACKET INSTALLATION DETAILS.

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SHEET NUMBER:	REV. #
A-3	0