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

Internet: ct.gov/csc

Daniel F. Caruso
Chairman

May 6, 2009

Thomas J. Regan, Esq.
Brown Rudnick LLP
CityPlace I, 185 Asylum Street
Hartford, CT 06103

RE: **EM-T-MOBILE-049-090406** - T-Mobile USA, Inc. notice of intent to modify an existing telecommunications facility located at 5 Town Farm Road (a/k/a 85 Post Office Road), Enfield, Connecticut.

Dear Attorney Regan:

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:

- The foundation shall not exceed 100 percent of its post-construction structural rating; and
- A signed letter from a Professional Engineer duly licensed in the State of Connecticut shall be submitted to the Council to certify that the foundation does not exceed 100 percent of its post-construction structural rating.

The proposed modifications are to be implemented as specified here and in your notice dated April 6, 2009, including the placement of all necessary equipment and shelters within the tower compound. 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.

Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

S. Derek Phelps
Executive Director

SDP/MP/laf

c: The Honorable Patrick L. Tallarita, Mayor, Town of Enfield
Matthew W. Coppler, Town Manager, Town of Enfield
Jose Giner, Director of Planning and Community Development, Town of Enfield
American Tower Corporation

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

April 8, 2009

The Honorable Patrick L. Tallarita
Mayor
Town of Enfield
820 Enfield Street
Enfield, CT 06082

RE: **EM-T-MOBILE-049-090406** - Omnipoint Communications, as subsidiary of T-Mobile USA, Inc., notice of intent to modify an existing telecommunications facility located at 5 Town Farm Road (a/k/a 85 Post Office Road), Enfield, Connecticut.

Dear Mayor Tallarita:

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 April 22, 2009.

Thank you for your cooperation and consideration.

Very truly yours,

S. Derek Phelps
Executive Director

SDP/jb

Enclosure: Notice of Intent

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

CONNECTICUT SITING COUNCIL

EM-T-MOBILE-049-090406

In re:

T-Mobile USA, Inc. Notice to Make an Exempt Modification to an Existing Facility at 5 Town Farm Road, Enfield, Connecticut (a/k/a 85 Post Office Road, Enfield, Connecticut).	:	**EXEMPT MODIFICATION NO. _____**
	:	April 6, 2009

ORIGINAL

NOTICE OF EXEMPT MODIFICATION

Pursuant to Conn. Agencies Regs. §§ 16-50j-73 and 16-50j-72(b), T-Mobile USA, Inc. ("T-Mobile") hereby gives notice to the Connecticut Siting Council ("Council") and the Town of Enfield of T-Mobile's intent to make an exempt modification to an existing monopole (the "Tower") located at 5 Town Farm Road in Enfield, Connecticut (a/k/a 85 Post Office Road in Enfield, Connecticut). Specifically, T-Mobile plans to upgrade its wireless system in Connecticut by implementing its Universal Mobile Telecommunications System ("UMTS"). UMTS is a third-generation ("3G") technology that utilizes a code division multiple access ("CDMA") base to allow for fast and large data transfers. To accomplish this upgrade, T-Mobile must modify its antenna and equipment configurations at many of its existing sites.

Once the UMTS upgrade is complete, T-Mobile will operate on a more unified communication system, allowing international wireless telephones to function world-wide. Furthermore, UMTS will enhance Global Positioning System ("GPS") navigation capabilities and provide emergency responders with more advanced tracking capabilities. The proposed UMTS technology is compatible with the existing second-generation ("2G") Global System for Mobile Communication ("GSM") currently on the Tower and the proposed upgrade is expected

BROWN RUDNICK LLP
CITYPLACE I
185 ASYLUM STREET
HARTFORD, CT 06103
(860) 509-6500

to enhance the existing 2G system. In order to accomplish the upgrade at this site, T-Mobile plans to add UMTS technology, upgrade existing GSM technology, and install associated electronic equipment at the base of the Tower.

Under the Council's regulations (Conn. Agencies Regs. § 16-50j-72(b)), T-Mobile's plans do not constitute a modification subject to the Council's review because T-Mobile will not change the height of the Tower, will not extend the boundaries of the compound, will not increase the noise levels at the site, and will not increase the total radio frequency electromagnetic radiation power density at the site to levels above applicable standards.

The Tower is a 150-foot monopole located at 5 Town Farm Road in Enfield, Connecticut (41.966, -72.5527). There are multiple carriers on the Tower. The Tower is owned by the American Tower Company. Currently, T-Mobile has 3 antennas and 6 Tower Mounted Amplifiers ("TMA") located on the Tower with a centerline of 140 feet. A site plan with Tower specifications is attached.

T-Mobile plans to add 3 UMTS antennas and 3 UMTS Twin TMA to the Tower. T-Mobile also proposes to remove its 6 existing TMA and replace them with 3 new GSM Twin TMA. The proposed antennas and TMA will have the same centerline as the existing antennas and TMA – 140 feet. To confirm the Tower can support these changes, T-Mobile commissioned American Tower Engineering Services to perform a structural analysis of the Tower (attached). According to the structural analysis, dated March 11, 2009; "The tower and foundation can support the existing and proposed antennas …" (Page 2, Structural Analysis Report).

BROWN RUDNICK LLP
CITYPLACE I
185 ASYLUM STREET
HARTFORD, CT 06103
(860) 509-6500

In addition, T-Mobile proposes to locate 6, 1 5/8 inch coax cables under the existing ice bridge. The existing ice bridge connects the proposed UTMS equipment cabinet and the

proposed antennas. T-Mobile proposes to install the UMTS equipment cabinet on its existing 10-foot by 11-foot (approximately) concrete pad. Hence, no increase in the size of the concrete pad is necessary. T-Mobile also proposes to install power and telephone wiring at this site to service the proposed equipment.

Therefore, excluding brief, minor, construction-related noise during the addition of the antennas and the installation of the equipment cabinet, T-Mobile's changes to the Tower will not increase noise levels at the site.

The proposed antennas and TMA will not adversely impact the health and safety of the surrounding community or the people working on the Tower. The total radio frequency exposure measured around the Tower will be well below the National Council on Radiation Protection and Measurements' ("NCRP") standard adopted by the Federal Communications Commission ("FCC"). The worst-case power density analysis measured at the base of the Tower indicates that T-Mobile's antennas will emit 4.87% of the NCRP's standard for maximum permissible exposure. A cumulative power density analysis indicates that together, all of the antennas on the Tower will emit only 23.62% of the NCRP's standard for maximum permissible exposure. Therefore, the power density levels will be well below the FCC mandated radio frequency exposure limits in all locations around the Tower, even with extremely conservative assumptions. The power density analysis is attached.

In conclusion, T-Mobile's proposed plan to add antennas, remove and replace 6 existing TMA and add 3 TMA at this site does not constitute a modification subject to the Council's jurisdiction because T-Mobile will not increase the height of the Tower, will not extend the boundaries of the site, will not increase the noise levels at the site, and the total radio frequency

BROWN RUDNICK LLP
CITYPLACE I
185 ASYLUM STREET
HARTFORD, CT 06103
(860) 509-6500

electromagnetic radiation power density will stay within all applicable standards. *See* Conn. Agencies Regs. § 16-50j-72.

T-Mobile USA, Inc.

By: _____

Thomas J. Regan
Brown Rudnick LLP
185 Asylum Street, CityPlace I
Hartford, CT 06103-3402
Email - tregan@brownrudnick.com
Phone - 860.509.6522
Fax - 860.509.6622

Certificate of Service

This is to certify that on this 6th day of April, 2009, the foregoing Notice of Exempt Modification was sent, via first class mail, to the following:

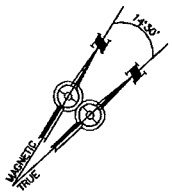
Town of Enfield
Mayor Scott R. Kaupin
Town Hall
820 Enfield Street
Enfield, CT 06082-2297

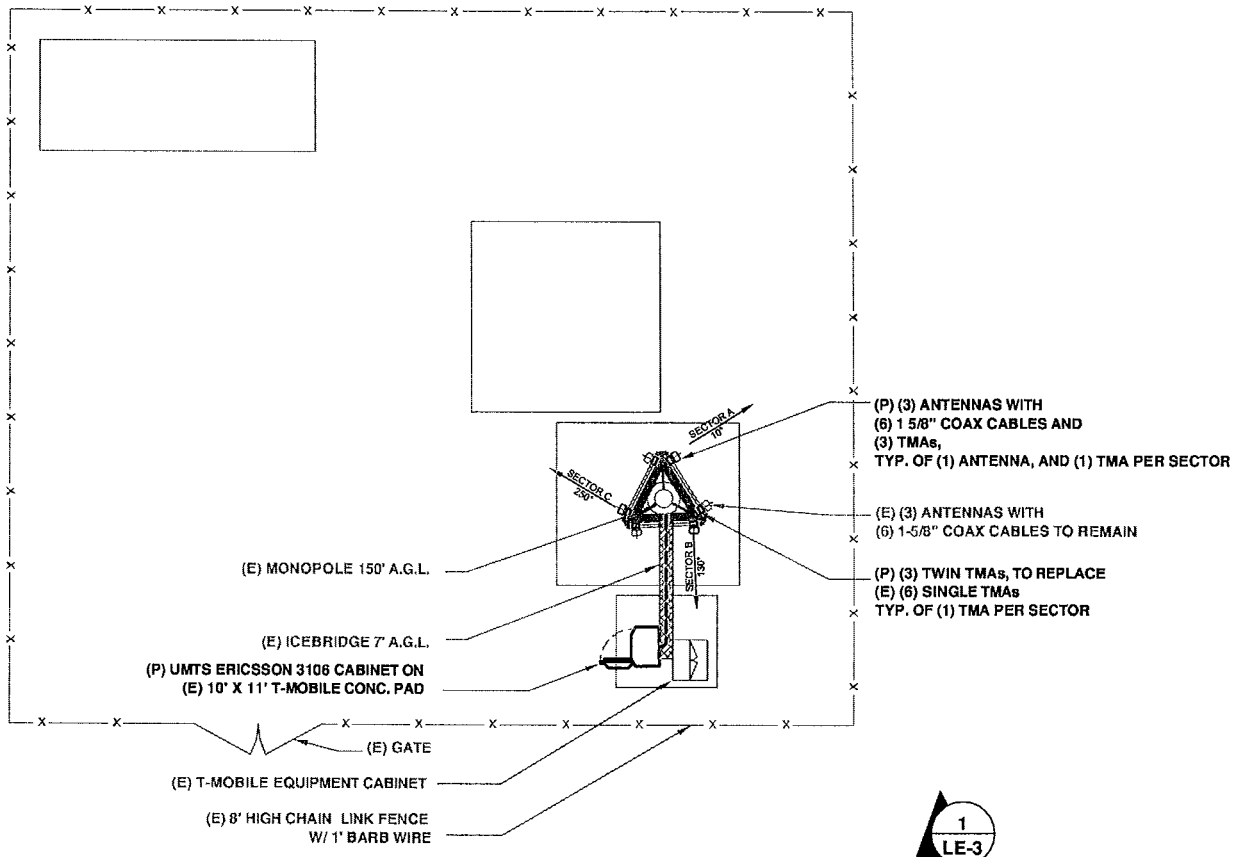
By: _____
Thomas J. Regan

40258293 v1 - 025064/0016

BROWN RUDNICK LLP
CITYPLACE I
185 ASYLUM STREET
HARTFORD, CT 06103
(860) 509-6500

FINAL CONFIGURATION	
CABINETS: 2	(E) (1) CABINET TO REMAIN (P) (1) CABINET TO BE ADDED
ANTENNAS: 6	(E) (3) TO REMAIN (P) (3) TO BE ADDED
TMA: 6	(P) (6) TWIN TO REPLACE (E) (6) SINGLE TMAs
COAX: 12	(E) (6) TO REMAIN (P) (6) TO BE ADDED





1
LE-3

ANTENNA AZIMUTHS:
SECTOR A= 10°
SECTOR B= 130°
SECTOR C= 250°

ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY LESSEE/LICENSEE'S STRUCTURAL & RF ENGINEERS. LOCATIONS OF POWER & TELEPHONE FACILITIES ARE SUBJECT TO APPROVAL BY UTILITY COMPANIES.

PLAN

SCALE: 1" = 20'-0"

10 0 10 20 30

TRANSCEND WIRELESS, LLC
10 INDUSTRIAL AVE.
MAHWAH, NJ 0740
OFFICE: (210) 316-2085
FAX:(210) 684-0066

FOR

OMNIPOINT COMMUNICATIONS, INC.
DBA T-MOBILE USA, INC
35 GRIFIN ROAD SOUTH
BLOOMFIEL, CT 06002
OFFICE: (860) 692-7100
FAX:(860) 692-7159

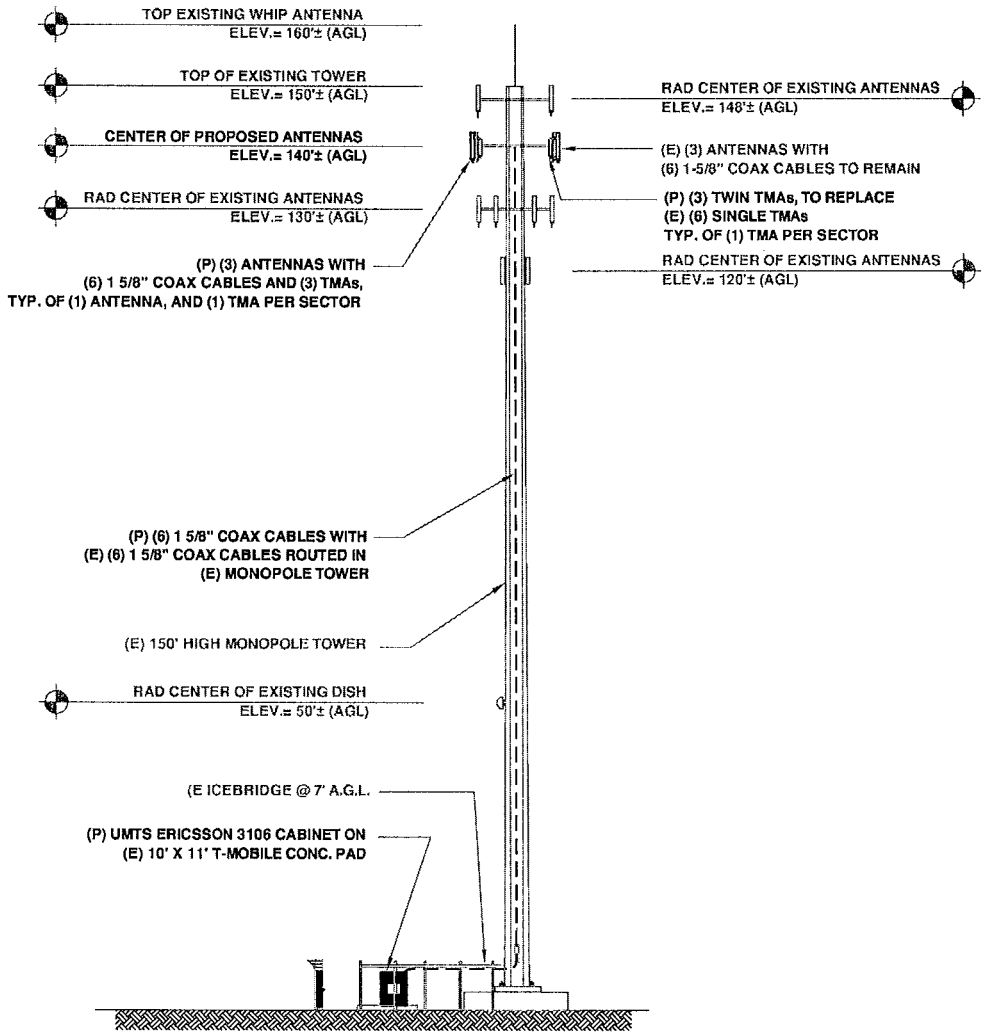
ATLANTIS GROUP
15 Cypress St., Suite 300
Newton Centre, MA 02459
Office: 617-965-0789
Fax: 617-663-6032

SITE NUMBER:	
CT11534A	
SITE NAME:	
CT534/SPECTRASITE ENFIELD	
ADDRESS:	
85 POST OFFICE ROAD ENFIELD, CT 06082	
DRAWN BY	
P.J.D.	
0: FINAL	03-13-09
A: REVISION	02-06-09
REVISION	DATE

APPROVALS

Site Owner	Date
Construction Manager	Date
RF Engineer	Date
Site Acquisition	Date

The above parties hereby approve and accept these documents and authorize the contractor to proceed with the construction described herein. all construction documents are subject to review by the local building department and any changes or modifications they may impose.



ELEVATION

SCALE: 1" = 30'-0"

15 0 15 30 45

ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY LESSEE/LICENSEE'S STRUCTURAL & RF ENGINEERS. LOCATIONS OF POWER & TELEPHONE FACILITIES ARE SUBJECT TO APPROVAL BY UTILITY COMPANIES.

TRANSCEND WIRELESS, LLC
10 INDUSTRIAL AVE.
MAHWAH, NJ 0740
OFFICE: (210) 316-2085
FAX:(210) 684-0066

FOR

OMNIPOINT COMMUNICATIONS, INC. DBA T-MOBILE USA, INC
35 GRIFFIN ROAD SOUTH
BLOOMFIEL, CT 06002
OFFICE: (860) 692-7100
FAX:(860) 692-7159

ATLANTIS GROUP
15 Cypress St., Suite 300
Newton Centre, MA 02459
Office: 617-965-0789
Fax: 617-663-6032

SITE NUMBER:	
CT11534A	
SITE NAME:	
CT534/SPECTRASITE ENFIELD	
ADDRESS:	
85 POST OFFICE ROAD ENFIELD, CT 06082	
DRAWN BY	
P.J.D.	
0: FINAL	03-13-09
A: REVIEW	02-06-09
REVISION	DATE

APPROVALS

Site Owner	Date
Construction Manager	Date
RF Engineer	Date
Site Acquisition	Date

The above parties hereby approve and accept these documents and authorize the contractor to proceed with the construction described herein, all construction documents are subject to review by the local building department and any changes or modifications they may impose.

AMERICAN TOWER

Structural Analysis Report

Structure	:	**150 ft ITT Meyer Monopole**
ATC Site Name	:	**Enfd - Enfield, CT**
ATC Site Number	:	**302489**
Proposed Carrier	:	**T-Mobile**
Carrier Site Name	:	**CT534/Spectrasite Enfield**
Carrier Site Number	:	**CT11534A**
County	:	**Hartford**
Eng. Number	:	**43046421**
Date	:	**March 11, 2009**
Usage	:	**86%**
Portholes Required	:	**No**

Submitted by:
Esha Shah, E.I.
Design Engineer

STATE OF CONNECTICUT
RAPHAEL I. MOHAMED
No. 20112
LICENSED
PROFESSIONAL ENGINEER

3/13/09

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, CT 06082, Hartford County (ATC site #302489). The tower was originally designed and manufactured by ITT Meyer (Drawing #Type "B"). The tower has been modified per design by ATC (ATC Job #40071639, dated December 6, 2007).

Analysis

The tower was analyzed using Semaan Engineering Solutions, Inc., Software. The analysis assumes that the tower is in good, undamaged, and non-corroded condition.

Basic Wind Speed:	95 mph (3-Second Gust)
Radial Ice:	50 mph (3-Second Gust) w/ 1.25" ice
Code:	ANSI/TIA-222-G / 2003 IBC with 2005 CT Supplement and 2008 CT Amendments

Antenna Loads

The following antenna loads were used in the tower analysis.

Existing Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax (in)	Carrier
154.0	6	TTA	Platform w/ Handrails	(12) 1 5/8	AT&T Mobility
	6	Powerwave LGP 13519			
	6	Allgon 7770.00			
150.0	1	Decibel DB809KE-SY		(1) 1 5/8	USA Mobility
132.0	6	Antel LPA-185080/12CF	Low Profile Platform	(12) 1 5/8	Verizon
	6	Antel LPA-80080/6CF			
122.0	3	RFS APXV18-206517S-C	Flush	(6) 1 5/8	Youghiogheny
56.0	1	Channel Master Type 120	Dish	(1) RG6	USA Mobility

Proposed Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax (in)	Carrier
140.0	6	Andrew Dual Duplex TMA	Low Profile Platform	(12) 1 5/8	T-Mobile
	3	RFS APX16DWV-16DWV-S-E-ACU			
	3	EMS RR90-17-02DP			

Install proposed coax in same location as existing T-Mobile coax. (6) coax on outside and (6) coax on inside the pole.

Results

The maximum structure usage is: 86%

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	Original Design Reactions	Factored Design Reactions	Current Analysis Reactions	% Of Design*
Moment (ft-kips)	1,197.0	1,616.0	2,704.9	167
Shear (kips)	13.1	17.7	28.0	158

(*) The percentage is factored by 1.35 per ANSI/TIA-222-G

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

Conclusion

Based on the analysis results, the structure meets the requirements per ANSI/TIA-222-G and 2003 IBC with 2005 CT Supplement and 2008 CT Amendments standards. The tower and foundation can support the existing and proposed antennas with the TX line distribution as described in this report.

If you have any questions or require additional information, please call 919-463-6280.

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:

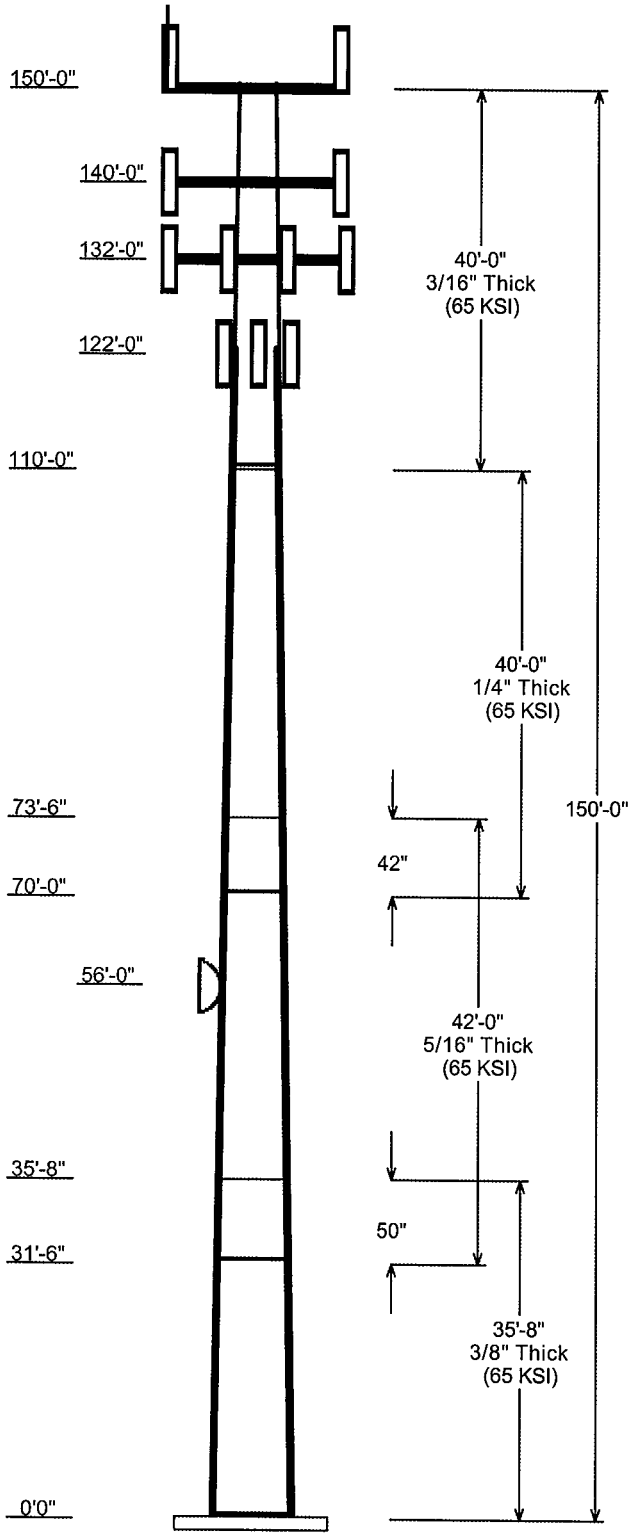
-- Information supplied by the client regarding the structure itself, the antenna and feed line loading on the structure and its components, or other relevant information.

-- 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 are in an un-corroded condition and have not deteriorated; and we, therefore, assume 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.



Job Information

Pole :	302489	Code: ANSI/TIA-222 Rev G	
Description :	150' ITT Meyer Type "B" Monopole		Struct Class : II
Client :	T-Mobile		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) Accross Flats Top	Bottom	Thick (in)	Joint Type	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
1	35.667	31.791	37.380	0.375		0.000	0.156700	65
2	42.000	26.487	33.069	0.313	Slip Joint	50.000	0.156700	65
3	40.000	21.268	27.536	0.250	Slip Joint	42.000	0.156700	65
4	40.000	15.000	21.268	0.188	Butt Joint	0.000	0.156700	65

Discrete Appurtenance

Attach Elev (ft)	Force Elev (ft)	Qty	Description
150.000	154.000	6	TTA
150.000	154.000	6	Powerwave LGP 13519
150.000	154.000	6	Allgon 7770.00
150.000	155.667	1	Decibel DB809KE-SY
150.000	150.000	1	Round Platform w/ Handrails
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
132.000	132.000	1	Round Low Profile Platform
132.000	132.000	6	Antel LPA-185080/12CF
132.000	132.000	6	Antel LPA-80080/6CF
122.000	122.000	3	RFS APXV18-206517S-C
56.000	56.000	1	Channel Master Type 120

Linear Appurtenance

Elev (ft) From	To	Description	Exposed To Wind
125.00	140.00	1 5/8" Coax	Yes
0.000	150.00	1 5/8" Coax	No
0.000	150.00	1 5/8" Coax	No
0.000	150.00	1 5/8" Coax	Yes
0.000	56.000	RG6	Yes
0.000	122.00	1 5/8" Coax	Yes
0.000	125.00	#20 Dywidag bars	Yes
0.000	125.00	1 5/8" Coax	Yes
0.000	132.00	1 5/8" Coax	Yes
0.000	140.00	1 5/8" Coax	Yes

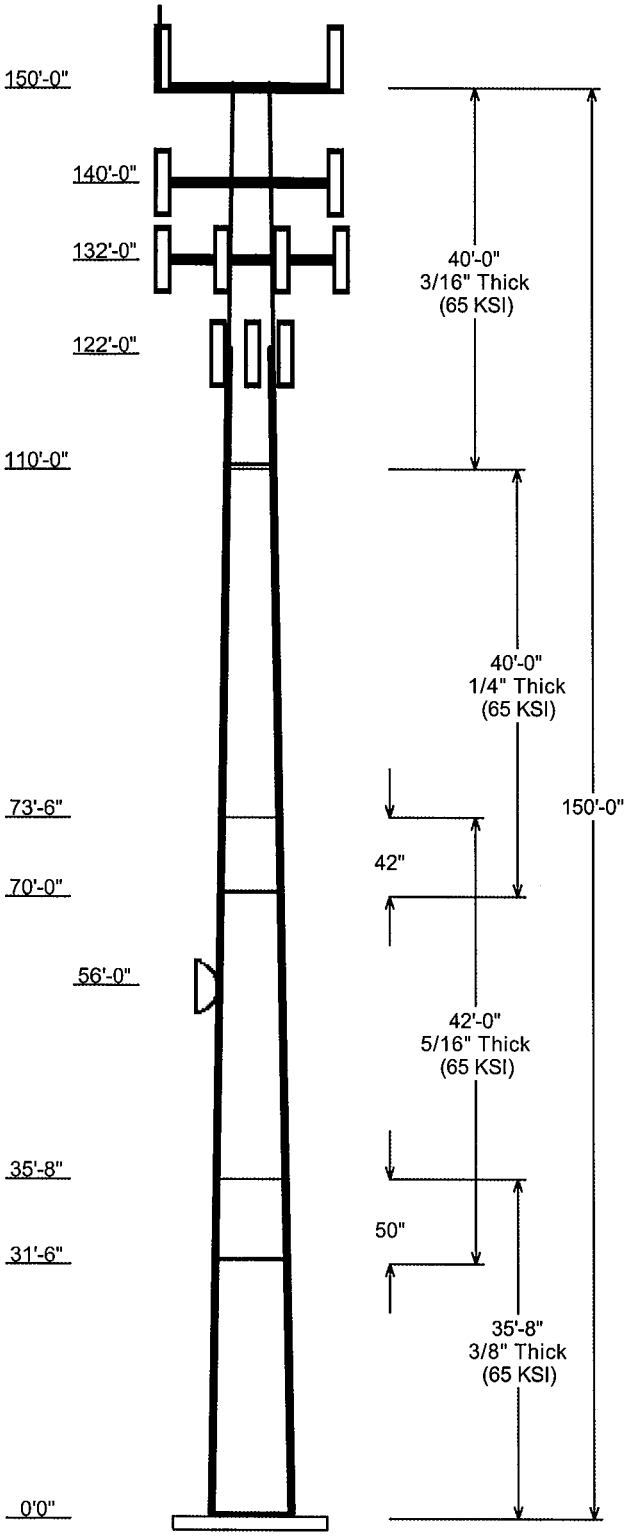
Load Cases

1.2D + 1.6W	95.00 mph with No Ice
0.9D + 1.6W	95.00 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50.00 mph with 1.25 in Radial Ice
1.0D + 1.0W	60.00 mph Serviceability

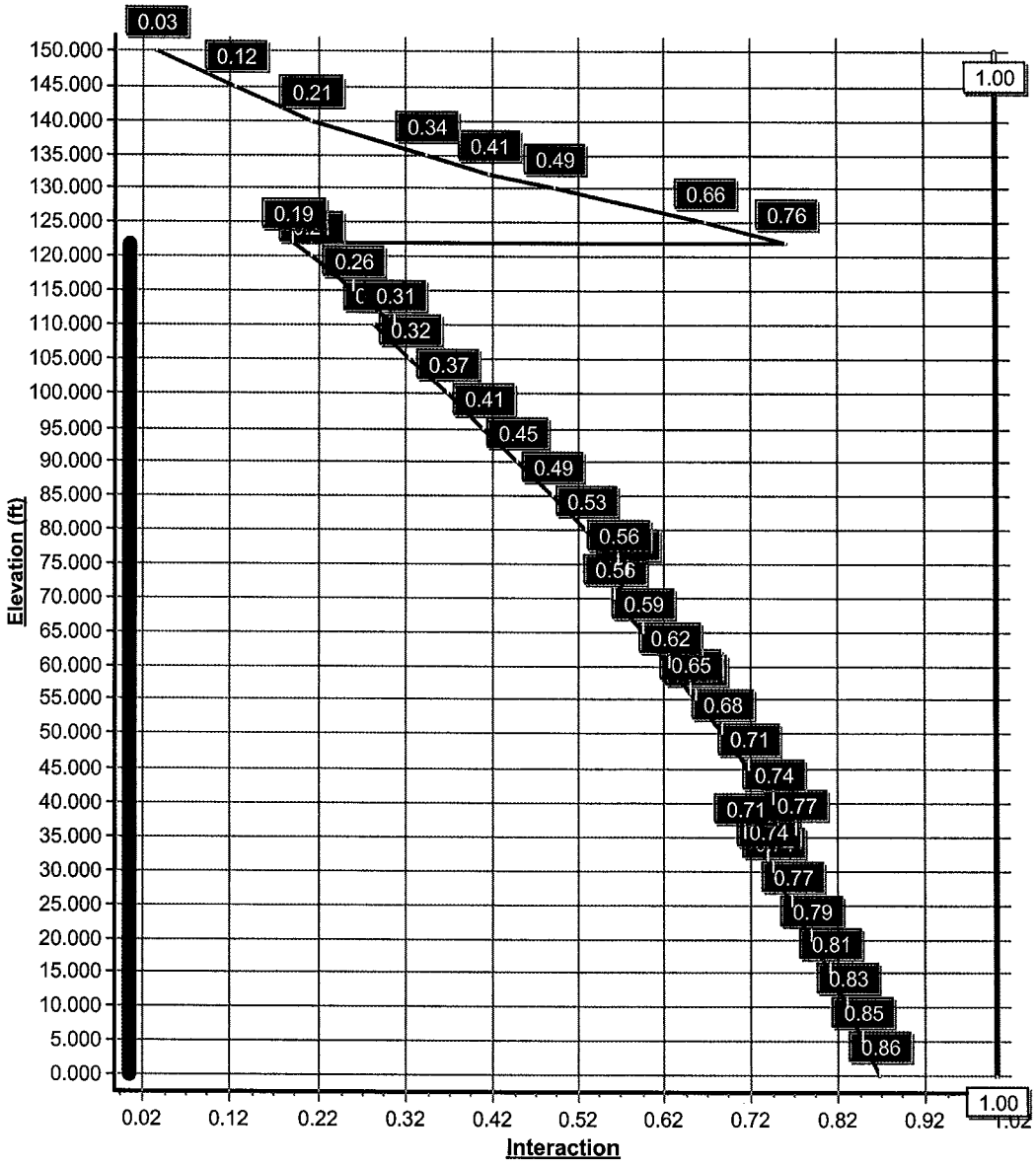
Reactions

Load Case	Moment (Kip-ft)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W	2704.85	27.97	37.41
0.9D + 1.6W	2671.22	27.95	30.08
1.2D + 1.0Di + 1.0Wi	895.86	7.96	97.22
1.0D + 1.0W	676.67	7.04	32.59

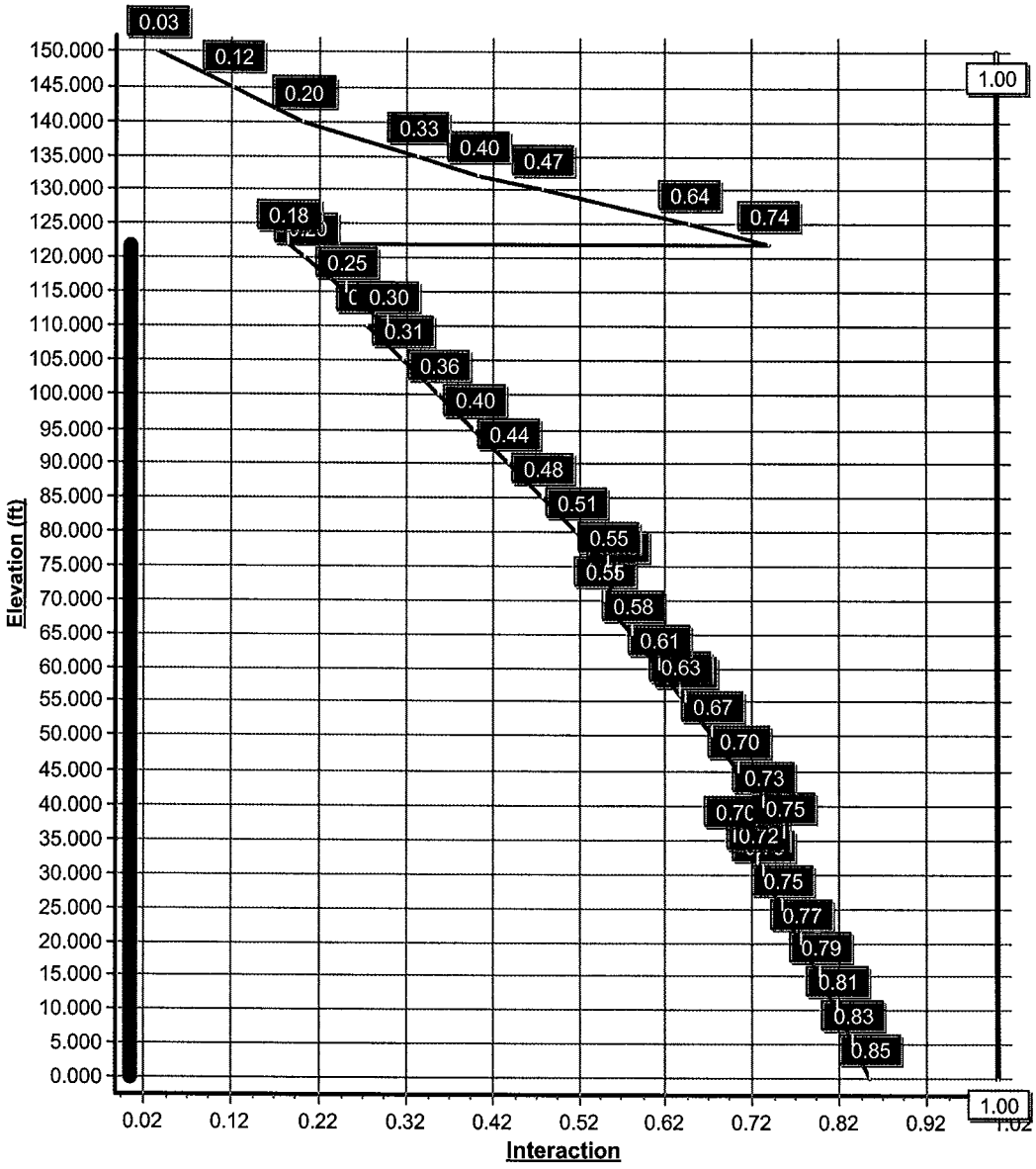
Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	56.00	4.867	0.824



Load Case : 1.2D + 1.6W
Max Ratio 86.39% at 0.0ft

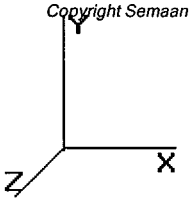


Load Case : 0.9D + 1.6W
Max Ratio 85.13% at 0.0ft



Pole : 302489
Location : Enfd - Enfield, CT
Height : 150.0 (ft)
Shape : 12 Sides
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
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)



Shaft Section Properties

Sect Num	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	35.667	0.3750	65		0.00	5,014	37.38	0.000	44.68	7810.1	24.57	99.68	31.791	35.66	37.93	4778.9	20.57	84.78	0.15670
2	42.000	0.3125	65	Slip Joint	50.00	4,237	33.06	31.50	32.96	4514.2	26.21	105.82	26.487	73.50	26.34	2303.3	20.57	84.76	0.15670
3	40.000	0.2500	65	Slip Joint	42.00	2,646	27.53	70.00	21.97	2087.4	27.37	110.14	21.268	110.0	16.92	954.0	20.65	85.07	0.15670
4	40.000	0.1875	65	Butt Joint	0.00	1,475	21.26	110.0	12.73	721.9	28.25	113.43	15.000	150.0	8.94	250.5	19.29	80.00	0.15670
				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	TTA	6	10.00	1.400	0.50	70.14	2.814	0.50	0.000	4.000
150.00	Powerwave LGP 13519	6	5.00	0.340	0.50	40.69	0.803	0.50	0.000	4.000
150.00	Allgon 7770.00	6	35.00	5.880	0.75	295.36	7.347	0.75	0.000	4.000
150.00	Decibel DB809KE-SY	1	26.00	3.400	1.00	343.64	8.700	1.00	0.000	5.667
150.00	Round Platform w/ Handrails	1	2000.00	27.200	1.00	4164.07	68.024	1.00	0.000	0.000
140.00	Andrew Dual Duplex TMA	6	11.00	0.670	0.50	62.88	1.203	0.50	0.000	0.000
140.00	RFS APX16DWV-16DWV-S-E-	3	39.60	6.700	0.67	289.41	7.938	0.67	0.000	0.000
140.00	EMS RR90-17-02DP	3	18.00	4.360	0.67	213.41	6.095	0.67	0.000	0.000
140.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	2574.59	57.766	1.00	0.000	0.000
132.00	Round Low Profile Platform	1	1500.00	21.700	1.00	2568.29	53.356	1.00	0.000	0.000
132.00	Antel LPA-185080/12CF	6	40.50	4.569	0.88	270.18	5.529	0.88	0.000	0.000
132.00	Antel LPA-80080/6CF	6	21.00	9.100	0.74	383.31	10.880	0.74	0.000	0.000
122.00	RFS APXV18-206517S-C	3	26.40	5.160	0.73	255.67	7.258	0.73	0.000	0.000
56.00	Channel Master Type 120	1	188.00	20.910	1.00	663.70	25.319	1.00	0.000	0.000
	Totals	50	6201.00			8025.89			Number of Loadings :	14

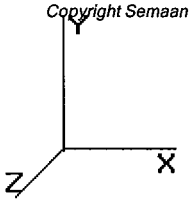
Linear Appurtenance Properties

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	140.00	(6) 1 5/8" Coax	0.00	Y
125.00	140.00	(6) 1 5/8" Coax	1.98	Y
0.00	132.00	(12) 1 5/8" Coax	3.96	Y
0.00	125.00	(4) #20 Dywidag bars	5.00	Y
0.00	125.00	(6) 1 5/8" Coax	0.00	Y
0.00	122.00	(6) 1 5/8" Coax	0.00	Y
0.00	56.00	(1) RG6	0.28	Y

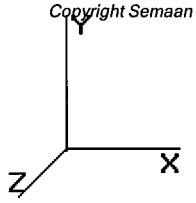
Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	Intermediate Connections Description	Intermediate Connections Spacing (in)	Intermediate Connections Len (in)	Connectors	Continuation?
0.00	122.00	4	SOL #20 All Thread	80	2.08	6" Angle Bracket	30.00	3.31	5/8" A36 U-Bolt	

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



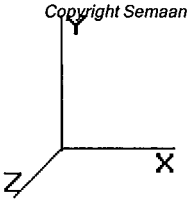
Pole :	302489	Code: ANSI/TIA-222 Rev G	
Location :	Enfd - Enfield, CT	Struct Class : II	
Height :	150.0 (ft)	Exposure Category : B	
Shape :	12 Sides	Topographic Category : 1	
Base Dia :	37.38 (in)		
Top Dia :	15.00 (in)		
Taper :	0.156700 (in/ft)	Base Elev : 0.000 (ft)	



Segment Properties (Max Len : 5 ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	F'y (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	65.0	403.6	0.0	19.64	4,769.	0.0
5.00		0.3750	36.597	43.737	7,324.4	24.01	97.59	65.0	386.6	752.2	19.64	4,601.	334.0
10.00		0.3750	35.813	42.791	6,859.3	23.45	95.50	65.0	370.0	736.1	19.64	4,436.	334.0
15.00		0.3750	35.029	41.845	6,414.3	22.89	93.41	65.0	353.7	720.0	19.64	4,274.	334.0
20.00		0.3750	34.246	40.899	5,989.0	22.33	91.32	65.0	337.8	703.9	19.64	4,115.	334.0
25.00		0.3750	33.462	39.953	5,583.0	21.77	89.23	65.0	322.3	687.8	19.64	3,959.	334.0
30.00		0.3750	32.679	39.007	5,195.7	21.21	87.14	65.0	307.1	671.7	19.64	3,806.	334.0
31.50	Bot - Section 2	0.3750	32.444	38.723	5,083.1	21.04	86.52	65.0	302.7	198.4	19.64	3,761.	100.2
35.00		0.3750	31.895	38.061	4,826.7	20.65	85.05	65.0	292.3	846.4	19.64	3,776.	233.8
35.67	Top - Section 1	0.3125	32.416	32.304	4,249.6	25.65	103.73	65.0	253.3	159.7	19.64	3,756.	44.6
40.00		0.3125	31.737	31.621	3,985.6	25.07	101.56	65.0	242.6	471.3	19.64	3,627.	289.4
45.00		0.3125	30.953	30.833	3,694.9	24.40	99.05	65.0	230.6	531.3	19.64	3,480.	334.0
50.00		0.3125	30.170	30.044	3,418.6	23.73	96.54	65.0	218.9	517.9	19.64	3,337.	334.0
55.00		0.3125	29.386	29.256	3,156.5	23.05	94.04	65.0	207.5	504.5	19.64	3,197.	334.0
56.00		0.3125	29.230	29.098	3,105.7	22.92	93.54	65.0	205.3	99.3	19.64	3,169.	66.8
60.00		0.3125	28.603	28.467	2,908.1	22.38	91.53	65.0	196.4	391.8	19.64	3,060.	267.2
65.00		0.3125	27.819	27.679	2,673.1	21.71	89.02	65.0	185.6	477.6	19.64	2,926.	334.0
70.00		0.3125	27.036	26.891	2,451.2	21.04	86.52	65.0	175.1	464.2	19.64	2,795.	334.0
70.00	Bot - Section 3	0.3125	27.036	26.890	2,451.1	21.04	86.52	65.0	175.1	0.0	19.64	2,795.	0.0
73.50	Top - Section 2	0.2500	26.987	21.524	1,964.0	26.78	107.95	65.0	140.6	575.9	19.64	2,787.	233.8
75.00		0.2500	26.752	21.335	1,912.7	26.53	107.01	65.0	138.1	109.4	19.64	2,748.	100.2
80.00		0.2500	25.969	20.704	1,748.0	25.69	103.88	65.0	130.0	357.6	19.64	2,621.	334.0
85.00		0.2500	25.185	20.073	1,593.1	24.85	100.74	65.0	122.2	346.9	19.64	2,497.	334.0
90.00		0.2500	24.402	19.442	1,447.6	24.01	97.61	65.0	114.6	336.2	19.64	2,376.	334.0
95.00		0.2500	23.618	18.812	1,311.2	23.17	94.47	65.0	107.2	325.4	19.64	2,258.	334.0
100.0		0.2500	22.835	18.181	1,183.7	22.33	91.34	65.0	100.1	314.7	19.64	2,143.	334.0
105.0		0.2500	22.051	17.550	1,064.7	21.49	88.21	65.0	93.3	304.0	19.64	2,031.	334.0
110.0		0.2500	21.268	16.919	954.0	20.65	85.07	65.0	86.7	293.2	19.64	1,922.	334.0
110.0	Top - Section 3	0.2500	21.268	16.919	954.0	20.65	85.07	65.0	86.7	0.0	19.64	1,922.	0.0
110.0	Bot - Section 4	0.1875	21.268	12.727	721.9	28.25	113.43	65.0	65.6		19.64	1,922.	
115.0		0.1875	20.484	12.254	644.4	27.13	109.25	65.0	60.8	212.5	19.64	1,816.	334.0
120.0		0.1875	19.701	11.781	572.6	26.01	105.07	65.0	56.1	204.5	19.64	1,713.	334.0
122.0	Reinf. Top	0.1875	19.388	11.592	545.4	25.56	103.40	65.0	54.4	79.5	19.64	1,673.	133.6
125.0		0.1875	18.917	11.308	506.4	24.89	100.89	65.0	51.7	116.9			
130.0		0.1875	18.134	10.835	445.4	23.77	96.71	65.0	47.5	188.4			
132.0		0.1875	17.821	10.646	422.5	23.32	95.04	65.0	45.8	73.1			
135.0		0.1875	17.350	10.362	389.6	22.65	92.54	65.0	43.4	107.2			
140.0		0.1875	16.567	9.889	338.6	21.53	88.36	65.0	39.5	172.3			
145.0		0.1875	15.783	9.416	292.3	20.41	84.18	65.0	35.8	164.2			
150.0		0.1875	15.000	8.943	250.5	19.29	80.00	65.0	32.3	156.2			
										13,372.1			8,149.6

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



Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 26 Iterations

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

Wind Importance Factor : 1.00

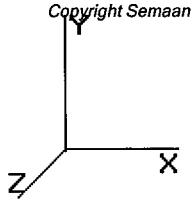
Shaft Segment Forces (Factored)

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	15.364	16.90	256.32	1.000		0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	15.364	16.90	250.95	1.200	*	0.000	5.00	15.955	19.15	517.7	0.0	1,236.6
10.00		1.00	0.70	15.364	16.90	245.57	1.200	*	0.000	5.00	15.617	18.74	506.8	0.0	1,217.3
15.00		1.00	0.70	15.364	16.90	240.20	1.200	*	0.000	5.00	15.279	18.34	495.8	0.0	1,198.0
20.00		1.00	0.70	15.364	16.90	234.83	1.200	*	0.000	5.00	14.942	17.93	484.8	0.0	1,178.7
25.00		1.00	0.70	15.364	16.90	229.45	1.200	*	0.000	5.00	14.604	17.52	473.9	0.0	1,159.4
30.00		1.00	0.70	15.377	16.91	224.18	1.200	*	0.000	5.00	14.266	17.12	463.3	0.0	1,140.1
31.50	Bot - Section 2	1.00	0.71	15.593	17.15	224.12	1.200	*	0.000	1.50	4.215	5.06	138.8	0.0	338.3
35.00		1.00	0.73	16.070	17.67	223.67	1.200	*	0.000	3.50	9.902	11.88	336.0	0.0	1,249.5
35.67	Top - Section 1	1.00	0.73	16.156	17.77	223.54	1.200	*	0.000	0.67	1.868	2.24	63.8	0.0	236.2
40.00		1.00	0.76	16.694	18.36	226.85	1.200	*	0.000	4.33	11.991	14.39	422.8	0.0	855.0
45.00		1.00	0.78	17.266	18.99	225.00	1.200	*	0.000	5.00	13.521	16.23	493.1	0.0	971.5
50.00		1.00	0.81	17.793	19.57	222.63	1.200	*	0.000	5.00	13.183	15.82	495.4	0.0	955.4
55.00		1.00	0.83	18.285	20.11	219.82	1.200	*	0.000	5.00	12.845	15.41	496.0	0.0	939.4
56.00	Appertunance(s)	1.00	0.83	18.379	20.21	219.22	1.200	*	0.000	1.00	2.529	3.03	98.1	0.0	185.9
60.00		1.00	0.85	18.745	20.61	216.64	1.200	*	0.000	4.00	9.979	11.97	395.1	0.0	737.3
65.00		1.00	0.87	19.179	21.09	213.13	1.200	*	0.000	5.00	12.169	14.60	492.9	0.0	907.2
70.00		1.00	0.89	19.589	21.54	209.33	1.200	*	0.000	5.00	11.831	14.20	489.5	0.0	891.1
70.00	Bot - Section 3	1.00	0.89	19.589	21.54	209.33	1.200	*	0.000	0.00	0.001	0.00	0.0	0.0	0.1
73.50	Top - Section 2	1.00	0.90	19.864	21.85	206.52	1.200	*	0.000	3.50	8.232	9.88	345.3	0.0	924.9
75.00		1.00	0.91	19.979	21.97	209.19	1.200	*	0.000	1.50	3.476	4.17	146.7	0.0	231.4
80.00		1.00	0.92	20.351	22.38	204.94	1.200	*	0.000	5.00	11.371	13.65	488.7	0.0	763.1
85.00		1.00	0.94	20.706	22.77	200.49	1.200	*	0.000	5.00	11.033	13.24	482.5	0.0	750.3
90.00		1.00	0.95	21.047	23.15	195.84	1.200	*	0.000	5.00	10.695	12.83	475.4	0.0	737.4
95.00		1.00	0.97	21.375	23.51	191.02	1.200	*	0.000	5.00	10.357	12.43	467.6	0.0	724.5
100.0		1.00	0.98	21.690	23.86	186.05	1.200	*	0.000	5.00	10.019	12.02	459.0	0.0	711.6
105.0		1.00	1.00	21.995	24.19	180.92	1.200	*	0.000	5.00	9.681	11.62	449.7	0.0	698.8
110.0		1.00	1.01	22.289	24.51	175.65	1.200	*	0.000	5.00	9.343	11.21	439.8	0.0	685.9
110.0	Top - Section 3	1.00	1.01	22.289	24.51	175.65	1.200	*	0.000	0.00	0.001	0.00	0.0	0.0	0.0
115.0		1.00	1.02	22.574	24.83	170.26	1.200	*	0.000	5.00	9.005	10.81	429.3	0.0	589.0
120.0		1.00	1.04	22.850	25.13	164.75	1.200	*	0.000	5.00	8.667	10.40	418.3	0.0	579.4
122.0	Reinf. Top	1.00	1.04	22.959	25.25	162.51	1.200	*	0.000	2.00	3.372	4.05	163.5	0.0	229.0
125.0		1.00	1.05	23.118	25.43	159.12	1.200	*	0.000	3.00	4.957	5.95	242.0	0.0	140.3
130.0		1.00	1.06	23.379	25.71	153.39	1.200	*	0.000	5.00	7.991	9.59	394.6	0.0	226.0
132.0	Appertunance(s)	1.00	1.07	23.481	25.82	151.06	1.200	*	0.000	2.00	3.102	3.72	153.8	0.0	87.7
135.0		1.00	1.07	23.632	25.99	147.55	1.200	*	0.000	3.00	4.551	5.46	227.2	0.0	128.7
140.0	Appertunance(s)	1.00	1.08	23.879	26.26	141.62	1.200	*	0.000	5.00	7.315	8.78	368.9	0.0	206.7
145.0		1.00	1.09	24.120	26.53	135.60	1.200	*	0.000	5.00	6.977	8.37	355.4	0.0	197.1
150.0	Appertunance(s)	1.00	1.11	24.355	26.79	129.50	1.200	*	0.000	5.00	6.639	7.97	341.5	0.0	187.4
* = Cf Adjusted By Linear Load Ra Effect							Totals:			150.00			13,713.3	0.0	24,196.1

Pole : 302489
Location : Enfd - Enfield, CT
Height : 150.0 (ft)
Shape : 12 Sides
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
Taper : 0.156700 (in/ft)

Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure Category : B
Topographic Category : 1

Base Elev : 0.000 (ft)



Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 26 Iterations

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

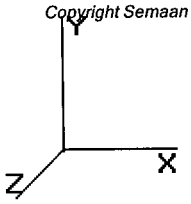
Wind Importance Factor : 1.00

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	18.379	20.217	1.00	1.00	20.91	0.000	0.000	676.38	0.00	0.00	225.60
122.0	RFS APXV18-206517S-	3	22.959	25.254	0.58	0.80	9.04	0.000	0.000	365.29	0.00	0.00	95.04
132.0	Round Low Profile Pl	1	23.481	25.829	1.00	1.00	21.70	0.000	0.000	896.79	0.00	0.00	1,800.00
132.0	Antel LPA-185080/12C	6	23.481	25.829	0.70	0.80	19.30	0.000	0.000	797.58	0.00	0.00	291.60
132.0	Antel LPA-80080/6CF	6	23.481	25.829	0.59	0.80	32.32	0.000	0.000	1,335.81	0.00	0.00	151.20
140.0	Andrew Dual Duplex T	6	23.879	26.267	0.40	0.80	1.61	0.000	0.000	67.58	0.00	0.00	79.20
140.0	RFS APX16DWV-	3	23.879	26.267	0.54	0.80	10.77	0.000	0.000	452.79	0.00	0.00	142.56
140.0	EMS RR90-17-02DP	3	23.879	26.267	0.54	0.80	7.01	0.000	0.000	294.65	0.00	0.00	64.80
140.0	Flat Low Profile Pla	1	23.879	26.267	1.00	1.00	26.10	0.000	0.000	1,096.92	0.00	0.00	1,800.00
150.0	TTA	6	24.538	26.992	0.40	0.80	3.36	0.000	4.000	145.11	0.00	580.44	72.00
150.0	Powerwave LGP	6	24.538	26.992	0.40	0.80	0.82	0.000	4.000	35.24	0.00	140.96	36.00
150.0	Allgon 7770.00	6	24.538	26.992	0.60	0.80	21.17	0.000	4.000	914.20	0.00	3,656.78	252.00
150.0	Decibel DB809KE-SY	1	24.614	27.075	0.80	0.80	2.72	0.000	5.667	117.83	0.00	667.70	31.20
150.0	Round Platform w/ Ha	1	24.355	26.790	1.00	1.00	27.20	0.000	0.000	1,165.90	0.00	0.00	2,400.00
										8,362.06			7,441.20

Pole :	302489
Location :	Enfd - Enfield, CT
Height :	150.0 (ft)
Shape :	12 Sides
Base Dia :	37.38 (in)
Top Dia :	15.00 (in)
Taper :	0.156700 (in/ft)

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



Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 26 Iterations

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

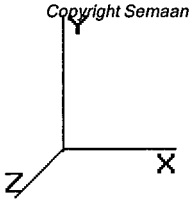
Wind Importance Factor : 1.00

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	F X (lb)	Dead Load (lb)
5.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.364	0.345	0.000	53.54	39.36
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.345	0.000	0.00	29.52
5.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.364	0.345	0.000	53.54	59.03
5.00	(4) #20 Dywidag bars	Yes	5.00	1.159	5.00	2.08	2.42	15.364	0.345	0.000	65.32	0.00
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.345	0.000	0.00	29.52
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.345	0.000	0.00	29.52
5.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	15.364	0.345	0.000	3.79	0.17
10.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.364	0.352	0.000	53.54	39.36
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.352	0.000	0.00	29.52
10.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.364	0.352	0.000	53.54	59.03
10.00	(4) #20 Dywidag bars	Yes	5.00	1.159	5.00	2.08	2.42	15.364	0.352	0.000	65.32	0.00
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.352	0.000	0.00	29.52
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.352	0.000	0.00	29.52
10.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	15.364	0.352	0.000	3.79	0.17
15.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.364	0.360	0.000	53.54	39.36
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.360	0.000	0.00	29.52
15.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.364	0.360	0.000	53.54	59.03
15.00	(4) #20 Dywidag bars	Yes	5.00	1.159	5.00	2.08	2.42	15.364	0.360	0.000	65.32	0.00
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.360	0.000	0.00	29.52
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.360	0.000	0.00	29.52
15.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	15.364	0.360	0.000	3.79	0.17
20.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.364	0.368	0.000	53.54	39.36
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.368	0.000	0.00	29.52
20.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.364	0.368	0.000	53.54	59.03
20.00	(4) #20 Dywidag bars	Yes	5.00	1.159	5.00	2.08	2.42	15.364	0.368	0.000	65.32	0.00
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.368	0.000	0.00	29.52
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.368	0.000	0.00	29.52
20.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	15.364	0.368	0.000	3.79	0.17
25.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.364	0.377	0.000	53.54	39.36
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.377	0.000	0.00	29.52
25.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.364	0.377	0.000	53.54	59.03
25.00	(4) #20 Dywidag bars	Yes	5.00	1.159	5.00	2.08	2.42	15.364	0.377	0.000	65.32	0.00
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.377	0.000	0.00	29.52
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.377	0.000	0.00	29.52
25.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	15.364	0.377	0.000	3.79	0.17
30.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.377	0.386	0.000	53.59	39.36
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.377	0.386	0.000	0.00	29.52
30.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.377	0.386	0.000	53.59	59.03
30.00	(4) #20 Dywidag bars	Yes	5.00	1.159	5.00	2.08	2.41	15.377	0.386	0.000	65.35	0.00
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.377	0.386	0.000	0.00	29.52
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.377	0.386	0.000	0.00	29.52
30.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	15.377	0.386	0.000	3.79	0.17
31.50	(8) 1 5/8" Coax	Yes	1.50	1.200	3.96	0.50	0.59	15.593	0.392	0.000	16.31	11.81
31.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	15.593	0.392	0.000	0.00	8.86
31.50	(12) 1 5/8" Coax	Yes	1.50	1.200	3.96	0.50	0.59	15.593	0.392	0.000	16.31	17.71
31.50	(4) #20 Dywidag bars	Yes	1.50	1.151	5.00	0.63	0.72	15.593	0.392	0.000	19.75	0.00
31.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	15.593	0.392	0.000	0.00	8.86
31.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	15.593	0.392	0.000	0.00	8.86
31.50	(1) RG6	Yes	1.50	1.200	0.28	0.04	0.04	15.593	0.392	0.000	1.15	0.05
35.00	(8) 1 5/8" Coax	Yes	3.50	1.200	3.96	1.15	1.39	16.070	0.396	0.000	39.20	27.55
35.00	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	16.070	0.396	0.000	0.00	20.66

Pole : 302489
Location : Enfd - Enfield, CT
Height : 150.0 (ft)
Shape : 12 Sides
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
Taper : 0.156700 (in/ft)

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



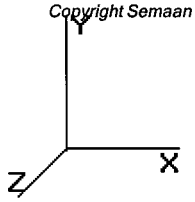
Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 26 Iterations

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

Wind Importance Factor : 1.00

35.00	(12) 1 5/8" Coax	Yes	3.50	1.200	3.96	1.15	1.39	16.070	0.396	0.000	39.20	41.32
35.00	(4) #20 Dywidag bars	Yes	3.50	1.134	5.00	1.46	1.65	16.070	0.396	0.000	46.76	0.00
35.00	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	16.070	0.396	0.000	0.00	20.66
35.00	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	16.070	0.396	0.000	0.00	20.66
35.00	(1) RG6	Yes	3.50	1.200	0.28	0.08	0.10	16.070	0.396	0.000	2.77	0.12
35.67	(8) 1 5/8" Coax	Yes	0.67	1.200	3.96	0.22	0.26	16.156	0.400	0.000	7.51	5.25
35.67	(6) 1 5/8" Coax	Yes	0.67	0.000	0.00	0.00	0.00	16.156	0.400	0.000	0.00	3.94
35.67	(12) 1 5/8" Coax	Yes	0.67	1.200	3.96	0.22	0.26	16.156	0.400	0.000	7.51	7.87
35.67	(4) #20 Dywidag bars	Yes	0.67	1.131	5.00	0.28	0.31	16.156	0.400	0.000	8.94	0.00
35.67	(6) 1 5/8" Coax	Yes	0.67	0.000	0.00	0.00	0.00	16.156	0.400	0.000	0.00	3.94
35.67	(6) 1 5/8" Coax	Yes	0.67	0.000	0.00	0.00	0.00	16.156	0.400	0.000	0.00	3.94
35.67	(1) RG6	Yes	0.67	1.200	0.28	0.02	0.02	16.156	0.400	0.000	0.53	0.02
40.00	(8) 1 5/8" Coax	Yes	4.33	1.200	3.96	1.43	1.72	16.694	0.397	0.000	50.42	34.11
40.00	(6) 1 5/8" Coax	Yes	4.33	0.000	0.00	0.00	0.00	16.694	0.397	0.000	0.00	25.58
40.00	(12) 1 5/8" Coax	Yes	4.33	1.200	3.96	1.43	1.72	16.694	0.397	0.000	50.42	51.16
40.00	(4) #20 Dywidag bars	Yes	4.33	1.112	5.00	1.81	2.01	16.694	0.397	0.000	59.01	0.00
40.00	(6) 1 5/8" Coax	Yes	4.33	0.000	0.00	0.00	0.00	16.694	0.397	0.000	0.00	25.58
40.00	(6) 1 5/8" Coax	Yes	4.33	0.000	0.00	0.00	0.00	16.694	0.397	0.000	0.00	25.58
40.00	(1) RG6	Yes	4.33	1.200	0.28	0.10	0.12	16.694	0.397	0.000	3.56	0.15
45.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	17.266	0.407	0.000	60.17	39.36
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	17.266	0.407	0.000	0.00	29.52
45.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	17.266	0.407	0.000	60.17	59.03
45.00	(4) #20 Dywidag bars	Yes	5.00	1.094	5.00	2.08	2.28	17.266	0.407	0.000	69.25	0.00
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	17.266	0.407	0.000	0.00	29.52
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	17.266	0.407	0.000	0.00	29.52
45.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	17.266	0.407	0.000	4.25	0.17
50.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	17.793	0.417	0.000	62.01	39.36
50.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	17.793	0.417	0.000	0.00	29.52
50.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	17.793	0.417	0.000	62.01	59.03
50.00	(4) #20 Dywidag bars	Yes	5.00	1.077	5.00	2.08	2.24	17.793	0.417	0.000	70.30	0.00
50.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	17.793	0.417	0.000	0.00	29.52
50.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	17.793	0.417	0.000	0.00	29.52
50.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	17.793	0.417	0.000	4.38	0.17
55.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	18.285	0.428	0.000	63.72	39.36
55.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.285	0.428	0.000	0.00	29.52
55.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	18.285	0.428	0.000	63.72	59.03
55.00	(4) #20 Dywidag bars	Yes	5.00	1.063	5.00	2.08	2.21	18.285	0.428	0.000	71.26	0.00
55.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.285	0.428	0.000	0.00	29.52
55.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.285	0.428	0.000	0.00	29.52
55.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	18.285	0.428	0.000	4.51	0.17
56.00	(8) 1 5/8" Coax	Yes	1.00	1.200	3.96	0.33	0.40	18.379	0.435	0.000	12.81	7.87
56.00	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.379	0.435	0.000	0.00	5.90
56.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.96	0.33	0.40	18.379	0.435	0.000	12.81	11.81
56.00	(4) #20 Dywidag bars	Yes	1.00	1.060	5.00	0.42	0.44	18.379	0.435	0.000	14.29	0.00
56.00	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.379	0.435	0.000	0.00	5.90
56.00	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.379	0.435	0.000	0.00	5.90
56.00	(1) RG6	Yes	1.00	1.200	0.28	0.02	0.03	18.379	0.435	0.000	0.91	0.03
60.00	(8) 1 5/8" Coax	Yes	4.00	1.200	3.96	1.32	1.58	18.745	0.432	0.000	52.26	31.48
60.00	(6) 1 5/8" Coax	Yes	4.00	0.000	0.00	0.00	0.00	18.745	0.432	0.000	0.00	23.61
60.00	(12) 1 5/8" Coax	Yes	4.00	1.200	3.96	1.32	1.58	18.745	0.432	0.000	52.26	47.23
60.00	(4) #20 Dywidag bars	Yes	4.00	1.050	5.00	1.67	1.75	18.745	0.432	0.000	57.72	0.00
60.00	(6) 1 5/8" Coax	Yes	4.00	0.000	0.00	0.00	0.00	18.745	0.432	0.000	0.00	23.61
60.00	(6) 1 5/8" Coax	Yes	4.00	0.000	0.00	0.00	0.00	18.745	0.432	0.000	0.00	23.61
65.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	19.179	0.442	0.000	66.83	39.36
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.179	0.442	0.000	0.00	29.52
65.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	19.179	0.442	0.000	66.83	59.03
65.00	(4) #20 Dywidag bars	Yes	5.00	1.038	5.00	2.08	2.16	19.179	0.442	0.000	72.98	0.00

Pole :	302489				Code: ANSI/TIA-222 Rev G							
Location :	Enfd - Enfield, CT				Struct Class : II						3/12/2009 4:30:48 PM	
Height :	150.0 (ft)				Exposure Category : B						Page: 8	
Shape :	12 Sides				Topographic Category : 1							
Base Dia :	37.38 (in)											
Top Dia :	15.00 (in)											
Taper :	0.156700 (in/ft)				Base Elev : 0.000 (ft)							



Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 26 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

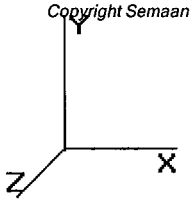
Dead Load Factor : 1.20

Wind Load Factor : 1.60

65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.179	0.442	0.000	0.00	29.52
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.179	0.442	0.000	0.00	29.52
70.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	19.589	0.455	0.000	68.26	39.36
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.589	0.455	0.000	0.00	29.52
70.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	19.589	0.455	0.000	68.26	59.03
70.00	(4) #20 Dywidag bars	Yes	5.00	1.027	5.00	2.08	2.14	19.589	0.455	0.000	73.76	0.00
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.589	0.455	0.000	0.00	29.52
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.589	0.455	0.000	0.00	29.52
70.00	(8) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	19.589	0.462	0.000	0.00	0.00
70.00	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	19.589	0.462	0.000	0.00	0.00
70.00	(12) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	19.589	0.462	0.000	0.00	0.00
70.00	(4) #20 Dywidag bars	Yes	0.00	1.027	5.00	0.00	0.00	19.589	0.462	0.000	0.00	0.00
70.00	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	19.589	0.462	0.000	0.00	0.00
70.00	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	19.589	0.462	0.000	0.00	0.00
73.50	(8) 1 5/8" Coax	Yes	3.50	1.200	3.96	1.15	1.39	19.864	0.466	0.000	48.46	27.55
73.50	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	19.864	0.466	0.000	0.00	20.66
73.50	(12) 1 5/8" Coax	Yes	3.50	1.200	3.96	1.15	1.39	19.864	0.466	0.000	48.46	41.32
73.50	(4) #20 Dywidag bars	Yes	3.50	1.020	5.00	1.46	1.49	19.864	0.466	0.000	51.99	0.00
73.50	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	19.864	0.466	0.000	0.00	20.66
73.50	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	19.864	0.466	0.000	0.00	20.66
75.00	(8) 1 5/8" Coax	Yes	1.50	1.200	3.96	0.49	0.59	19.979	0.464	0.000	20.88	11.80
75.00	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	19.979	0.464	0.000	0.00	8.85
75.00	(12) 1 5/8" Coax	Yes	1.50	1.200	3.96	0.49	0.59	19.979	0.464	0.000	20.88	17.71
75.00	(4) #20 Dywidag bars	Yes	1.50	1.017	5.00	0.62	0.64	19.979	0.464	0.000	22.34	0.00
75.00	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	19.979	0.464	0.000	0.00	8.85
75.00	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	19.979	0.464	0.000	0.00	8.85
80.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	20.351	0.473	0.000	70.92	39.36
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.351	0.473	0.000	0.00	29.52
80.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	20.351	0.473	0.000	70.92	59.03
80.00	(4) #20 Dywidag bars	Yes	5.00	1.007	5.00	2.08	2.10	20.351	0.473	0.000	75.18	0.00
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.351	0.473	0.000	0.00	29.52
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.351	0.473	0.000	0.00	29.52
85.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	20.706	0.488	0.000	72.16	39.36
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.706	0.488	0.000	0.00	29.52
85.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	20.706	0.488	0.000	72.16	59.03
85.00	(4) #20 Dywidag bars	Yes	5.00	0.999	5.00	2.08	2.08	20.706	0.488	0.000	75.83	0.00
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.706	0.488	0.000	0.00	29.52
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.706	0.488	0.000	0.00	29.52
90.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	21.047	0.503	0.000	73.35	39.36
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.047	0.503	0.000	0.00	29.52
90.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	21.047	0.503	0.000	73.35	59.03
90.00	(4) #20 Dywidag bars	Yes	5.00	0.991	5.00	2.08	2.06	21.047	0.503	0.000	76.45	0.00
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.047	0.503	0.000	0.00	29.52
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.047	0.503	0.000	0.00	29.52
95.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	21.375	0.520	0.000	74.49	39.36
95.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.375	0.520	0.000	0.00	29.52
95.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	21.375	0.520	0.000	74.49	59.03
95.00	(4) #20 Dywidag bars	Yes	5.00	0.983	5.00	2.08	2.05	21.375	0.520	0.000	77.05	0.00
95.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.375	0.520	0.000	0.00	29.52
95.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.375	0.520	0.000	0.00	29.52
100.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	21.690	0.537	0.000	75.59	39.36
100.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.690	0.537	0.000	0.00	29.52
100.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	21.690	0.537	0.000	75.59	59.03
100.0	(4) #20 Dywidag bars	Yes	5.00	0.976	5.00	2.08	2.03	21.690	0.537	0.000	77.61	0.00
100.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.690	0.537	0.000	0.00	29.52
100.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.690	0.537	0.000	0.00	29.52
105.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	21.995	0.556	0.000	76.65	39.36

Pole : 302489
Location : Enfd - Enfield, CT
Height : 150.0 (ft)
Shape : 12 Sides
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
Taper : 0.156700 (in/ft)

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



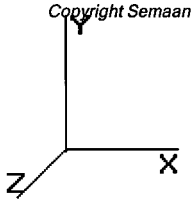
Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 26 Iterations

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

Wind Importance Factor : 1.00

105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.995	0.556	0.000	0.00	29.52
105.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	21.995	0.556	0.000	76.65	59.03
105.0	(4) #20 Dywidag bars	Yes	5.00	0.969	5.00	2.08	2.02	21.995	0.556	0.000	78.16	0.00
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.995	0.556	0.000	0.00	29.52
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.995	0.556	0.000	0.00	29.52
110.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	22.289	0.576	0.000	77.67	39.36
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.289	0.576	0.000	0.00	29.52
110.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	22.289	0.576	0.000	77.67	59.03
110.0	(4) #20 Dywidag bars	Yes	5.00	0.963	5.00	2.08	2.01	22.289	0.576	0.000	78.68	0.00
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.289	0.576	0.000	0.00	29.52
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.289	0.576	0.000	0.00	29.52
110.0	(8) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	22.289	0.587	0.000	0.01	0.00
110.0	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	22.289	0.587	0.000	0.00	0.00
110.0	(12) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	22.289	0.587	0.000	0.01	0.00
110.0	(4) #20 Dywidag bars	Yes	0.00	0.963	5.00	0.00	0.00	22.289	0.587	0.000	0.01	0.00
110.0	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	22.289	0.587	0.000	0.00	0.00
110.0	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	22.289	0.587	0.000	0.00	0.00
115.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	22.574	0.598	0.000	78.66	39.35
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.574	0.598	0.000	0.00	29.51
115.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	22.574	0.598	0.000	78.66	59.03
115.0	(4) #20 Dywidag bars	Yes	5.00	0.957	5.00	2.08	1.99	22.574	0.598	0.000	79.17	0.00
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.574	0.598	0.000	0.00	29.51
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.574	0.598	0.000	0.00	29.51
120.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	22.850	0.621	0.000	79.63	39.36
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.850	0.621	0.000	0.00	29.52
120.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	22.850	0.621	0.000	79.63	59.03
120.0	(4) #20 Dywidag bars	Yes	5.00	0.951	5.00	2.08	1.98	22.850	0.621	0.000	79.66	0.00
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.850	0.621	0.000	0.00	29.52
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.850	0.621	0.000	0.00	29.52
122.0	(8) 1 5/8" Coax	Yes	2.00	1.198	3.96	0.66	0.79	22.959	0.639	0.000	31.94	15.74
122.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.959	0.639	0.000	0.00	11.81
122.0	(12) 1 5/8" Coax	Yes	2.00	1.198	3.96	0.66	0.79	22.959	0.639	0.000	31.94	23.61
122.0	(4) #20 Dywidag bars	Yes	2.00	0.949	5.00	0.83	0.79	22.959	0.639	0.000	31.94	0.00
122.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.959	0.639	0.000	0.00	11.81
122.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.959	0.639	0.000	0.00	11.81
125.0	(8) 1 5/8" Coax	Yes	3.00	1.193	3.96	0.99	1.18	23.118	0.652	0.000	48.08	23.61
125.0	(6) 1 5/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	23.118	0.652	0.000	0.00	17.71
125.0	(12) 1 5/8" Coax	Yes	3.00	1.193	3.96	0.99	1.18	23.118	0.652	0.000	48.08	35.42
125.0	(4) #20 Dywidag bars	Yes	3.00	0.945	5.00	1.25	1.18	23.118	0.652	0.000	48.08	0.00
125.0	(6) 1 5/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	23.118	0.652	0.000	0.00	17.71
130.0	(8) 1 5/8" Coax	Yes	5.00	1.187	3.96	1.65	1.96	23.379	0.516	0.000	80.58	39.36
130.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	23.379	0.516	0.000	0.00	29.52
130.0	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	23.379	0.516	0.000	40.74	29.52
130.0	(12) 1 5/8" Coax	Yes	5.00	1.187	3.96	1.65	1.96	23.379	0.516	0.000	80.58	59.03
132.0	(8) 1 5/8" Coax	Yes	2.00	1.184	3.96	0.66	0.78	23.481	0.532	0.000	32.30	15.74
132.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.481	0.532	0.000	0.00	11.81
132.0	(6) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	23.481	0.532	0.000	16.37	11.81
132.0	(12) 1 5/8" Coax	Yes	2.00	1.184	3.96	0.66	0.78	23.481	0.532	0.000	32.30	23.61
135.0	(8) 1 5/8" Coax	Yes	3.00	1.180	3.96	0.99	1.17	23.632	0.326	0.000	48.61	23.61
135.0	(6) 1 5/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	23.632	0.326	0.000	0.00	17.71
135.0	(6) 1 5/8" Coax	Yes	3.00	1.200	1.98	0.50	0.59	23.632	0.326	0.000	24.71	17.71
140.0	(8) 1 5/8" Coax	Yes	5.00	1.174	3.96	1.65	1.94	23.879	0.338	0.000	81.43	39.36
140.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	23.879	0.338	0.000	0.00	29.52
140.0	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	23.879	0.338	0.000	41.61	29.52
145.0	(8) 1 5/8" Coax	Yes	5.00	1.168	3.96	1.65	1.93	24.120	0.236	0.000	81.84	39.36
150.0	(8) 1 5/8" Coax	Yes	5.00	1.163	3.96	1.65	1.92	24.355	0.249	0.000	82.24	39.36

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



Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 26 Iterations

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

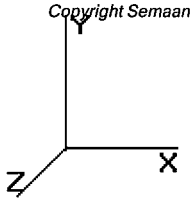
Wind Importance Factor : 1.00

Totals:	5,794.66	5,114.18

Pole : 302489
Location : Enfd - Enfield, CT
Height : 150.0 (ft)
Shape : 12 Sides
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
Taper : 0.156700 (in/ft)

Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure Category : B
Topographic Category : 1

Base Elev : 0.000 (ft)



Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 26 Iterations

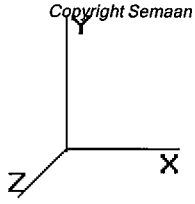
Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

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
5.00	693.93	1,448.34	0.00	0.00
10.00	682.96	1,429.02	0.00	0.00
15.00	671.99	1,409.71	0.00	0.00
20.00	661.03	1,390.39	0.00	0.00
25.00	650.06	1,371.07	0.00	0.00
30.00	639.61	1,351.76	0.00	0.00
31.50	192.31	401.85	0.00	0.00
35.00	463.97	1,397.67	0.00	0.00
35.67	88.24	264.41	0.00	0.00
40.00	586.19	1,038.42	0.00	0.00
45.00	686.89	1,183.25	0.00	0.00
50.00	694.12	1,167.15	0.00	0.00
55.00	699.25	1,151.06	0.00	0.00
56.00	815.34	453.88	0.00	0.00
60.00	557.29	906.54	0.00	0.00
65.00	699.57	1,118.69	0.00	0.00
70.00	699.77	1,102.60	0.00	0.00
70.00	0.05	0.07	0.00	0.00
73.50	494.25	1,073.00	0.00	0.00
75.00	210.80	294.85	0.00	0.00
80.00	705.75	974.67	0.00	0.00
85.00	702.64	961.80	0.00	0.00
90.00	698.56	948.92	0.00	0.00
95.00	693.58	936.04	0.00	0.00
100.0	687.77	923.16	0.00	0.00
105.0	681.18	910.29	0.00	0.00
110.0	673.86	897.41	0.00	0.00
110.0	0.04	0.06	0.00	0.00
115.0	665.81	800.50	0.00	0.00
120.0	657.20	790.90	0.00	0.00
122.0	624.63	408.69	0.00	0.00
125.0	386.26	249.47	0.00	0.00
130.0	596.47	408.07	0.00	0.00
132.0	3,264.98	2,403.32	0.00	0.00
135.0	300.48	202.47	0.00	0.00
140.0	2,403.91	2,416.28	0.00	0.00
145.0	437.28	261.03	0.00	0.00
150.0	2,802.03	3,042.57	0.00	5,045.88
Totals:	27,870.05	37,489.38	0.00	5,045.88

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



Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 26 Iterations

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

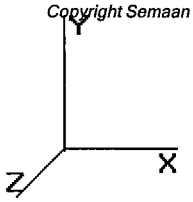
Wind Importance Factor : 1.00

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	-37.41	-27.97	0.00	-2,704.85	0.00	2,704.85	2,613.99	1,306.99	3,984.35	1,967.72	0.00	0.00	0.864
5.00	-35.83	-27.46	0.00	-2,565.01	0.00	2,565.01	2,558.64	1,279.32	3,816.59	1,884.87	0.16	-0.30	0.846
10.00	-34.26	-26.94	0.00	-2,427.73	0.00	2,427.73	2,503.30	1,251.65	3,652.43	1,803.80	0.63	-0.60	0.827
15.00	-32.73	-26.42	0.00	-2,293.02	0.00	2,293.02	2,447.95	1,223.98	3,491.89	1,724.51	1.42	-0.89	0.807
20.00	-31.21	-25.90	0.00	-2,160.92	0.00	2,160.92	2,392.60	1,196.30	3,334.95	1,647.01	2.51	-1.19	0.787
25.00	-29.73	-25.37	0.00	-2,031.44	0.00	2,031.44	2,337.26	1,168.63	3,181.62	1,571.28	3.91	-1.48	0.765
30.00	-28.31	-24.78	0.00	-1,904.60	0.00	1,904.60	2,281.91	1,140.96	3,031.90	1,497.34	5.63	-1.78	0.743
31.50	-27.85	-24.65	0.00	-1,867.42	0.00	1,867.42	2,265.31	1,132.65	2,987.68	1,475.50	6.20	-1.87	0.736
35.00	-26.42	-24.20	0.00	-1,781.15	0.00	1,781.15	2,226.57	1,113.28	2,885.79	1,425.19	7.65	-2.07	0.709
35.67	-26.10	-24.16	0.00	-1,765.01	0.00	1,765.01	1,889.79	944.90	2,499.95	1,234.63	7.94	-2.11	0.768
40.00	-24.97	-23.66	0.00	-1,660.31	0.00	1,660.31	1,849.82	924.91	2,394.82	1,182.71	9.97	-2.36	0.744
45.00	-23.70	-23.04	0.00	-1,542.03	0.00	1,542.03	1,803.70	901.85	2,276.32	1,124.19	12.60	-2.66	0.715
50.00	-22.46	-22.41	0.00	-1,426.83	0.00	1,426.83	1,757.58	878.79	2,160.82	1,067.15	15.54	-2.95	0.685
55.00	-21.28	-21.71	0.00	-1,314.80	0.00	1,314.80	1,711.46	855.73	2,048.33	1,011.59	18.79	-3.24	0.654
56.00	-20.82	-20.92	0.00	-1,293.09	0.00	1,293.09	1,702.23	851.12	2,026.20	1,000.66	19.47	-3.30	0.647
60.00	-19.86	-20.40	0.00	-1,209.41	0.00	1,209.41	1,665.34	832.67	1,938.85	957.53	22.34	-3.53	0.623
65.00	-18.69	-19.72	0.00	-1,107.41	0.00	1,107.41	1,619.22	809.61	1,832.38	904.94	26.18	-3.80	0.592
70.00	-17.60	-18.98	0.00	-1,008.83	0.00	1,008.83	1,573.10	786.55	1,728.91	853.84	30.30	-4.07	0.559
70.00	-17.57	-19.01	0.00	-1,008.82	0.00	1,008.82	1,573.09	786.55	1,728.90	853.84	30.30	-4.07	0.559
73.50	-16.49	-18.48	0.00	-942.27	0.00	942.27	1,259.14	629.57	1,387.79	685.38	33.35	-4.26	0.576
75.00	-16.16	-18.30	0.00	-914.56	0.00	914.56	1,248.07	624.03	1,363.39	673.33	34.70	-4.33	0.565
80.00	-15.16	-17.59	0.00	-823.07	0.00	823.07	1,211.17	605.59	1,283.60	633.92	39.38	-4.60	0.527
85.00	-14.19	-16.87	0.00	-735.14	0.00	735.14	1,174.27	587.14	1,206.22	595.71	44.33	-4.85	0.488
90.00	-13.24	-16.14	0.00	-650.80	0.00	650.80	1,137.38	568.69	1,131.25	558.68	49.54	-5.09	0.448
95.00	-12.31	-15.42	0.00	-570.08	0.00	570.08	1,100.48	550.24	1,058.68	522.84	54.99	-5.32	0.407
100.00	-11.40	-14.68	0.00	-493.00	0.00	493.00	1,063.58	531.79	988.52	488.19	60.67	-5.53	0.365
105.00	-10.52	-13.95	0.00	-419.58	0.00	419.58	1,026.69	513.34	920.76	454.73	66.56	-5.73	0.323
110.00	-9.68	-13.20	0.00	-349.82	0.00	349.82	989.79	494.89	855.40	422.45	72.65	-5.90	0.280
110.00	-9.66	-13.22	0.00	-349.82	0.00	349.82	989.79	494.89	855.40	422.45	72.65	-5.90	0.280
110.00	-9.66	-13.22	0.00	-349.82	0.00	349.82	989.79	494.89	855.40	422.45	72.65	-5.90	0.305
115.00	-8.90	-12.50	0.00	-283.73	0.00	283.73	716.88	358.44	599.87	296.25	78.91	-6.06	0.257
120.00	-8.16	-11.77	0.00	-221.25	0.00	221.25	689.20	344.60	554.25	273.72	85.33	-6.21	0.208
122.00	-7.81	-11.12	0.00	-197.71	0.00	197.71	689.20	344.60	554.25	273.72	87.94	-6.26	0.189
122.00	-7.81	-11.12	0.00	-197.71	0.00	197.71	689.20	344.60	554.25	273.72	87.94	-6.26	0.759
125.00	-7.56	-10.74	0.00	-164.36	0.00	164.36	661.53	330.77	510.43	252.08	91.89	-6.33	0.665
130.00	-7.18	-10.13	0.00	-110.69	0.00	110.69	633.86	316.93	468.41	231.33	98.72	-6.72	0.491
132.00	-5.16	-6.61	0.00	-90.43	0.00	90.43	622.79	311.39	452.11	223.28	101.55	-6.84	0.414
135.00	-4.98	-6.31	0.00	-70.59	0.00	70.59	606.19	303.09	428.21	211.47	105.90	-7.01	0.342
140.00	-2.87	-3.63	0.00	-39.05	0.00	39.05	578.51	289.26	389.80	192.51	113.33	-7.21	0.208
145.00	-2.66	-3.17	0.00	-20.89	0.00	20.89	550.84	275.42	353.20	174.43	120.94	-7.33	0.125
150.00	0.00	-2.80	0.00	-5.05	0.00	5.05	523.17	261.58	318.40	157.25	128.63	-7.40	0.032

Pole : 302489
Location : Enfd - Enfield, CT
Height : 150.0 (ft)
Shape : 12 Sides
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
Taper : 0.156700 (in/ft)

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



Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 26 Iterations

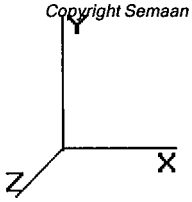
Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

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	15.364	16.90	256.32	1.000	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	15.364	16.90	250.95	1.200 *	0.000	5.00	15.955	19.15	517.7	0.0	1,011.0
10.00		1.00	0.70	15.364	16.90	245.57	1.200 *	0.000	5.00	15.617	18.74	506.8	0.0	996.5
15.00		1.00	0.70	15.364	16.90	240.20	1.200 *	0.000	5.00	15.279	18.34	495.8	0.0	982.0
20.00		1.00	0.70	15.364	16.90	234.83	1.200 *	0.000	5.00	14.942	17.93	484.8	0.0	967.5
25.00		1.00	0.70	15.364	16.90	229.45	1.200 *	0.000	5.00	14.604	17.52	473.9	0.0	953.0
30.00		1.00	0.70	15.377	16.91	224.18	1.200 *	0.000	5.00	14.266	17.12	463.3	0.0	938.5
31.50	Bot - Section 2	1.00	0.71	15.593	17.15	224.12	1.200 *	0.000	1.50	4.215	5.06	138.8	0.0	278.8
35.00		1.00	0.73	16.070	17.67	223.67	1.200 *	0.000	3.50	9.902	11.88	336.0	0.0	995.6
35.67	Top - Section 1	1.00	0.73	16.156	17.77	223.54	1.200 *	0.000	0.67	1.868	2.24	63.8	0.0	188.3
40.00		1.00	0.76	16.694	18.36	226.85	1.200 *	0.000	4.33	11.991	14.39	422.8	0.0	713.6
45.00		1.00	0.78	17.266	18.99	225.00	1.200 *	0.000	5.00	13.521	16.23	493.1	0.0	812.2
50.00		1.00	0.81	17.793	19.57	222.63	1.200 *	0.000	5.00	13.183	15.82	495.4	0.0	800.1
55.00		1.00	0.83	18.285	20.11	219.82	1.200 *	0.000	5.00	12.845	15.41	496.0	0.0	788.0
56.00	Appertunance(s)	1.00	0.83	18.379	20.21	219.22	1.200 *	0.000	1.00	2.529	3.03	98.1	0.0	156.2
60.00		1.00	0.85	18.745	20.61	216.64	1.200 *	0.000	4.00	9.979	11.97	395.1	0.0	619.8
65.00		1.00	0.87	19.179	21.09	213.13	1.200 *	0.000	5.00	12.169	14.60	492.9	0.0	763.9
70.00		1.00	0.89	19.589	21.54	209.33	1.200 *	0.000	5.00	11.831	14.20	489.5	0.0	751.8
70.00	Bot - Section 3	1.00	0.89	19.589	21.54	209.33	1.200 *	0.000	0.00	0.001	0.00	0.0	0.0	0.1
73.50	Top - Section 2	1.00	0.90	19.864	21.85	206.52	1.200 *	0.000	3.50	8.232	9.88	345.3	0.0	752.1
75.00		1.00	0.91	19.979	21.97	209.19	1.200 *	0.000	1.50	3.476	4.17	146.7	0.0	198.6
80.00		1.00	0.92	20.351	22.38	204.94	1.200 *	0.000	5.00	11.371	13.65	488.7	0.0	655.9
85.00		1.00	0.94	20.706	22.77	200.49	1.200 *	0.000	5.00	11.033	13.24	482.5	0.0	646.2
90.00		1.00	0.95	21.047	23.15	195.84	1.200 *	0.000	5.00	10.695	12.83	475.4	0.0	636.5
95.00		1.00	0.97	21.375	23.51	191.02	1.200 *	0.000	5.00	10.357	12.43	467.6	0.0	626.9
100.0		1.00	0.98	21.690	23.86	186.05	1.200 *	0.000	5.00	10.019	12.02	459.0	0.0	617.2
105.0		1.00	1.00	21.995	24.19	180.92	1.200 *	0.000	5.00	9.681	11.62	449.7	0.0	607.6
110.0		1.00	1.01	22.289	24.51	175.65	1.200 *	0.000	5.00	9.343	11.21	439.8	0.0	597.9
110.0	Top - Section 3	1.00	1.01	22.289	24.51	175.65	1.200 *	0.000	0.00	0.001	0.00	0.0	0.0	0.0
115.0		1.00	1.02	22.574	24.83	170.26	1.200 *	0.000	5.00	9.005	10.81	429.3	0.0	525.2
120.0		1.00	1.04	22.850	25.13	164.75	1.200 *	0.000	5.00	8.667	10.40	418.3	0.0	518.0
122.0	Reinf. Top	1.00	1.04	22.959	25.25	162.51	1.200 *	0.000	2.00	3.372	4.05	163.5	0.0	205.2
125.0		1.00	1.05	23.118	25.43	159.12	1.200 *	0.000	3.00	4.957	5.95	242.0	0.0	105.2
130.0		1.00	1.06	23.379	25.71	153.39	1.200 *	0.000	5.00	7.991	9.59	394.6	0.0	169.5
132.0	Appertunance(s)	1.00	1.07	23.481	25.82	151.06	1.200 *	0.000	2.00	3.102	3.72	153.8	0.0	65.8
135.0		1.00	1.07	23.632	25.99	147.55	1.200 *	0.000	3.00	4.551	5.46	227.2	0.0	96.5
140.0	Appertunance(s)	1.00	1.08	23.879	26.26	141.62	1.200 *	0.000	5.00	7.315	8.78	368.9	0.0	155.0
145.0		1.00	1.09	24.120	26.53	135.60	1.200 *	0.000	5.00	6.977	8.37	355.4	0.0	147.8
150.0	Appertunance(s)	1.00	1.11	24.355	26.79	129.50	1.200 *	0.000	5.00	6.639	7.97	341.5	0.0	140.6
* = Cf Adjusted By Linear Load Ra Effect							Totals:		150.00			13,713.3	0.0	20,184.5

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



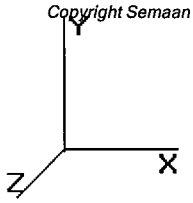
Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 26 Iterations

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	18.379	20.217	1.00	1.00	20.91	0.000	0.000	676.38	0.00	0.00	169.20
122.0	RFS APXV18-206517S-	3	22.959	25.254	0.58	0.80	9.04	0.000	0.000	365.29	0.00	0.00	71.28
132.0	Round Low Profile Pl	1	23.481	25.829	1.00	1.00	21.70	0.000	0.000	896.79	0.00	0.00	1,350.00
132.0	Antel LPA-185080/12C	6	23.481	25.829	0.70	0.80	19.30	0.000	0.000	797.58	0.00	0.00	218.70
132.0	Antel LPA-80080/6CF	6	23.481	25.829	0.59	0.80	32.32	0.000	0.000	1,335.81	0.00	0.00	113.40
140.0	Andrew Dual Duplex T	6	23.879	26.267	0.40	0.80	1.61	0.000	0.000	67.58	0.00	0.00	59.40
140.0	RFS APX16DWV-	3	23.879	26.267	0.54	0.80	10.77	0.000	0.000	452.79	0.00	0.00	106.92
140.0	EMS RR90-17-02DP	3	23.879	26.267	0.54	0.80	7.01	0.000	0.000	294.65	0.00	0.00	48.60
140.0	Flat Low Profile Pla	1	23.879	26.267	1.00	1.00	26.10	0.000	0.000	1,096.92	0.00	0.00	1,350.00
150.0	TTA	6	24.538	26.992	0.40	0.80	3.36	0.000	4.000	145.11	0.00	580.44	54.00
150.0	Powerwave LGP	6	24.538	26.992	0.40	0.80	0.82	0.000	4.000	35.24	0.00	140.96	27.00
150.0	Allgon 7770.00	6	24.538	26.992	0.60	0.80	21.17	0.000	4.000	914.20	0.00	3,656.78	189.00
150.0	Decibel DB809KE-SY	1	24.614	27.075	0.80	0.80	2.72	0.000	5.667	117.83	0.00	667.70	23.40
150.0	Round Platform w/ Ha	1	24.355	26.790	1.00	1.00	27.20	0.000	0.000	1,165.90	0.00	0.00	1,800.00
										8,362.06			5,580.90

Pole : 302489	Code: ANSI/TIA-222 Rev G		
Location : Enfd - Enfield, CT	Struct Class : II		3/12/2009 4:30:51 PM
Height : 150.0 (ft)	Exposure Category : B		Page: 15
Shape : 12 Sides	Topographic Category : 1		
Base Dia : 37.38 (in)			
Top Dia : 15.00 (in)			
Taper : 0.156700 (in/ft)	Base Elev : 0.000 (ft)		



Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 26 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)
5.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.364	0.345	0.000	53.54	29.52
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.345	0.000	0.00	22.14
5.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.364	0.345	0.000	53.54	44.27
5.00	(4) #20 Dywidag bars	Yes	5.00	1.159	5.00	2.08	2.42	15.364	0.345	0.000	65.32	0.00
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.345	0.000	0.00	22.14
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.345	0.000	0.00	22.14
5.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	15.364	0.345	0.000	3.79	0.13
10.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.364	0.352	0.000	53.54	29.52
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.352	0.000	0.00	22.14
10.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.364	0.352	0.000	53.54	44.27
10.00	(4) #20 Dywidag bars	Yes	5.00	1.159	5.00	2.08	2.42	15.364	0.352	0.000	65.32	0.00
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.352	0.000	0.00	22.14
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.352	0.000	0.00	22.14
10.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	15.364	0.352	0.000	3.79	0.13
15.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.364	0.360	0.000	53.54	29.52
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.360	0.000	0.00	22.14
15.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.364	0.360	0.000	53.54	44.27
15.00	(4) #20 Dywidag bars	Yes	5.00	1.159	5.00	2.08	2.42	15.364	0.360	0.000	65.32	0.00
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.360	0.000	0.00	22.14
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.360	0.000	0.00	22.14
15.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	15.364	0.360	0.000	3.79	0.13
20.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.364	0.368	0.000	53.54	29.52
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.368	0.000	0.00	22.14
20.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.364	0.368	0.000	53.54	44.27
20.00	(4) #20 Dywidag bars	Yes	5.00	1.159	5.00	2.08	2.42	15.364	0.368	0.000	65.32	0.00
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.368	0.000	0.00	22.14
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.368	0.000	0.00	22.14
20.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	15.364	0.368	0.000	3.79	0.13
25.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.364	0.377	0.000	53.54	29.52
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.377	0.000	0.00	22.14
25.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.364	0.377	0.000	53.54	44.27
25.00	(4) #20 Dywidag bars	Yes	5.00	1.159	5.00	2.08	2.42	15.364	0.377	0.000	65.32	0.00
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.377	0.000	0.00	22.14
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.364	0.377	0.000	0.00	22.14
25.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	15.364	0.377	0.000	3.79	0.13
30.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.377	0.386	0.000	53.59	29.52
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.377	0.386	0.000	0.00	22.14
30.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	15.377	0.386	0.000	53.59	44.27
30.00	(4) #20 Dywidag bars	Yes	5.00	1.159	5.00	2.08	2.41	15.377	0.386	0.000	65.35	0.00
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.377	0.386	0.000	0.00	22.14
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	15.377	0.386	0.000	0.00	22.14
30.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	15.377	0.386	0.000	3.79	0.13
31.50	(8) 1 5/8" Coax	Yes	1.50	1.200	3.96	0.50	0.59	15.593	0.392	0.000	16.31	8.86
31.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	15.593	0.392	0.000	0.00	6.64
31.50	(12) 1 5/8" Coax	Yes	1.50	1.200	3.96	0.50	0.59	15.593	0.392	0.000	16.31	13.29
31.50	(4) #20 Dywidag bars	Yes	1.50	1.151	5.00	0.63	0.72	15.593	0.392	0.000	19.75	0.00
31.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	15.593	0.392	0.000	0.00	6.64
31.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	15.593	0.392	0.000	0.00	6.64
31.50	(1) RG6	Yes	1.50	1.200	0.28	0.04	0.04	15.593	0.392	0.000	1.15	0.04
35.00	(8) 1 5/8" Coax	Yes	3.50	1.200	3.96	1.15	1.39	16.070	0.396	0.000	39.20	20.66
35.00	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	16.070	0.396	0.000	0.00	15.49

Pole :	302489			Code: ANSI/TIA-222 Rev G								
Location :	Enfd - Enfield, CT			Struct Class : II							3/12/2009 4:30:51 PM	
Height :	150.0 (ft)			Exposure Category : B							Page: 16	
Shape :	12 Sides			Topographic Category : 1								
Base Dia :	37.38 (in)											
Top Dia :	15.00 (in)											
Taper :	0.156700 (in/ft)			Base Elev : 0.000 (ft)								

Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 26 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

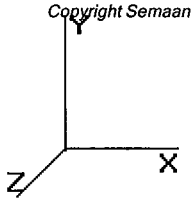
Dead Load Factor : 0.90

Wind Load Factor : 1.60

35.00	(12) 1 5/8" Coax	Yes	3.50	1.200	3.96	1.15	1.39	16.070	0.396	0.000	39.20	30.99
35.00	(4) #20 Dywidag bars	Yes	3.50	1.134	5.00	1.46	1.65	16.070	0.396	0.000	46.76	0.00
35.00	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	16.070	0.396	0.000	0.00	15.49
35.00	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	16.070	0.396	0.000	0.00	15.49
35.00	(1) RG6	Yes	3.50	1.200	0.28	0.08	0.10	16.070	0.396	0.000	2.77	0.09
35.67	(8) 1 5/8" Coax	Yes	0.67	1.200	3.96	0.22	0.26	16.156	0.400	0.000	7.51	3.94
35.67	(6) 1 5/8" Coax	Yes	0.67	0.000	0.00	0.00	0.00	16.156	0.400	0.000	0.00	2.95
35.67	(12) 1 5/8" Coax	Yes	0.67	1.200	3.96	0.22	0.26	16.156	0.400	0.000	7.51	5.91
35.67	(4) #20 Dywidag bars	Yes	0.67	1.131	5.00	0.28	0.31	16.156	0.400	0.000	8.94	0.00
35.67	(6) 1 5/8" Coax	Yes	0.67	0.000	0.00	0.00	0.00	16.156	0.400	0.000	0.00	2.95
35.67	(6) 1 5/8" Coax	Yes	0.67	0.000	0.00	0.00	0.00	16.156	0.400	0.000	0.00	2.95
35.67	(1) RG6	Yes	0.67	1.200	0.28	0.02	0.02	16.156	0.400	0.000	0.53	0.02
40.00	(8) 1 5/8" Coax	Yes	4.33	1.200	3.96	1.43	1.72	16.694	0.397	0.000	50.42	25.58
40.00	(6) 1 5/8" Coax	Yes	4.33	0.000	0.00	0.00	0.00	16.694	0.397	0.000	0.00	19.18
40.00	(12) 1 5/8" Coax	Yes	4.33	1.200	3.96	1.43	1.72	16.694	0.397	0.000	50.42	38.37
40.00	(4) #20 Dywidag bars	Yes	4.33	1.112	5.00	1.81	2.01	16.694	0.397	0.000	59.01	0.00
40.00	(6) 1 5/8" Coax	Yes	4.33	0.000	0.00	0.00	0.00	16.694	0.397	0.000	0.00	19.18
40.00	(6) 1 5/8" Coax	Yes	4.33	0.000	0.00	0.00	0.00	16.694	0.397	0.000	0.00	19.18
40.00	(1) RG6	Yes	4.33	1.200	0.28	0.10	0.12	16.694	0.397	0.000	3.56	0.11
45.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	17.266	0.407	0.000	60.17	29.52
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	17.266	0.407	0.000	0.00	22.14
45.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	17.266	0.407	0.000	60.17	44.27
45.00	(4) #20 Dywidag bars	Yes	5.00	1.094	5.00	2.08	2.28	17.266	0.407	0.000	69.25	0.00
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	17.266	0.407	0.000	0.00	22.14
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	17.266	0.407	0.000	0.00	22.14
45.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	17.266	0.407	0.000	4.25	0.13
50.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	17.793	0.417	0.000	62.01	29.52
50.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	17.793	0.417	0.000	0.00	22.14
50.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	17.793	0.417	0.000	62.01	44.27
50.00	(4) #20 Dywidag bars	Yes	5.00	1.077	5.00	2.08	2.24	17.793	0.417	0.000	70.30	0.00
50.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	17.793	0.417	0.000	0.00	22.14
50.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	17.793	0.417	0.000	0.00	22.14
50.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	17.793	0.417	0.000	4.38	0.13
55.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	18.285	0.428	0.000	63.72	29.52
55.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.285	0.428	0.000	0.00	22.14
55.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	18.285	0.428	0.000	63.72	44.27
55.00	(4) #20 Dywidag bars	Yes	5.00	1.063	5.00	2.08	2.21	18.285	0.428	0.000	71.26	0.00
55.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.285	0.428	0.000	0.00	22.14
55.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.285	0.428	0.000	0.00	22.14
55.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	18.285	0.428	0.000	4.51	0.13
56.00	(8) 1 5/8" Coax	Yes	1.00	1.200	3.96	0.33	0.40	18.379	0.435	0.000	12.81	5.90
56.00	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.379	0.435	0.000	0.00	4.43
56.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.96	0.33	0.40	18.379	0.435	0.000	12.81	8.85
56.00	(4) #20 Dywidag bars	Yes	1.00	1.060	5.00	0.42	0.44	18.379	0.435	0.000	14.29	0.00
56.00	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.379	0.435	0.000	0.00	4.43
56.00	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.379	0.435	0.000	0.00	4.43
56.00	(1) RG6	Yes	1.00	1.200	0.28	0.02	0.03	18.379	0.435	0.000	0.91	0.03
60.00	(8) 1 5/8" Coax	Yes	4.00	1.200	3.96	1.32	1.58	18.745	0.432	0.000	52.26	23.61
60.00	(6) 1 5/8" Coax	Yes	4.00	0.000	0.00	0.00	0.00	18.745	0.432	0.000	0.00	17.71
60.00	(12) 1 5/8" Coax	Yes	4.00	1.200	3.96	1.32	1.58	18.745	0.432	0.000	52.26	35.42
60.00	(4) #20 Dywidag bars	Yes	4.00	1.050	5.00	1.67	1.75	18.745	0.432	0.000	57.72	0.00
60.00	(6) 1 5/8" Coax	Yes	4.00	0.000	0.00	0.00	0.00	18.745	0.432	0.000	0.00	17.71
60.00	(6) 1 5/8" Coax	Yes	4.00	0.000	0.00	0.00	0.00	18.745	0.432	0.000	0.00	17.71
65.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	19.179	0.442	0.000	66.83	29.52
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.179	0.442	0.000	0.00	22.14
65.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	19.179	0.442	0.000	66.83	44.27
65.00	(4) #20 Dywidag bars	Yes	5.00	1.038	5.00	2.08	2.16	19.179	0.442	0.000	72.98	0.00

Pole : 302489
Location : Enfd - Enfield, CT
Height : 150.0 (ft)
Shape : 12 Sides
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
Taper : 0.156700 (in/ft)

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



Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 26 Iterations

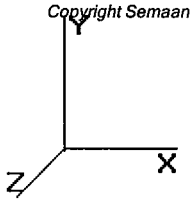
Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.179	0.442	0.000	0.00	22.14
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.179	0.442	0.000	0.00	22.14
70.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	19.589	0.455	0.000	68.26	29.52
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.589	0.455	0.000	0.00	22.14
70.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	19.589	0.455	0.000	68.26	44.27
70.00	(4) #20 Dywidag bars	Yes	5.00	1.027	5.00	2.08	2.14	19.589	0.455	0.000	73.76	0.00
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.589	0.455	0.000	0.00	22.14
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.589	0.455	0.000	0.00	22.14
70.00	(8) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	19.589	0.462	0.000	0.00	0.00
70.00	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	19.589	0.462	0.000	0.00	0.00
70.00	(12) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	19.589	0.462	0.000	0.00	0.00
70.00	(4) #20 Dywidag bars	Yes	0.00	1.027	5.00	0.00	0.00	19.589	0.462	0.000	0.00	0.00
70.00	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	19.589	0.462	0.000	0.00	0.00
70.00	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	19.589	0.462	0.000	0.00	0.00
73.50	(8) 1 5/8" Coax	Yes	3.50	1.200	3.96	1.15	1.39	19.864	0.466	0.000	48.46	20.66
73.50	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	19.864	0.466	0.000	0.00	15.50
73.50	(12) 1 5/8" Coax	Yes	3.50	1.200	3.96	1.15	1.39	19.864	0.466	0.000	48.46	30.99
73.50	(4) #20 Dywidag bars	Yes	3.50	1.020	5.00	1.46	1.49	19.864	0.466	0.000	51.99	0.00
73.50	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	19.864	0.466	0.000	0.00	15.50
73.50	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	19.864	0.466	0.000	0.00	15.50
75.00	(8) 1 5/8" Coax	Yes	1.50	1.200	3.96	0.49	0.59	19.979	0.464	0.000	20.88	8.85
75.00	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	19.979	0.464	0.000	0.00	6.64
75.00	(12) 1 5/8" Coax	Yes	1.50	1.200	3.96	0.49	0.59	19.979	0.464	0.000	20.88	13.28
75.00	(4) #20 Dywidag bars	Yes	1.50	1.017	5.00	0.62	0.64	19.979	0.464	0.000	22.34	0.00
75.00	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	19.979	0.464	0.000	0.00	6.64
75.00	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	19.979	0.464	0.000	0.00	6.64
80.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	20.351	0.473	0.000	70.92	29.52
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.351	0.473	0.000	0.00	22.14
80.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	20.351	0.473	0.000	70.92	44.27
80.00	(4) #20 Dywidag bars	Yes	5.00	1.007	5.00	2.08	2.10	20.351	0.473	0.000	75.18	0.00
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.351	0.473	0.000	0.00	22.14
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.351	0.473	0.000	0.00	22.14
85.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	20.706	0.488	0.000	72.16	29.52
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.706	0.488	0.000	0.00	22.14
85.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	20.706	0.488	0.000	72.16	44.27
85.00	(4) #20 Dywidag bars	Yes	5.00	0.999	5.00	2.08	2.08	20.706	0.488	0.000	75.83	0.00
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.706	0.488	0.000	0.00	22.14
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.706	0.488	0.000	0.00	22.14
90.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	21.047	0.503	0.000	73.35	29.52
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.047	0.503	0.000	0.00	22.14
90.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	21.047	0.503	0.000	73.35	44.27
90.00	(4) #20 Dywidag bars	Yes	5.00	0.991	5.00	2.08	2.06	21.047	0.503	0.000	76.45	0.00
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.047	0.503	0.000	0.00	22.14
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.047	0.503	0.000	0.00	22.14
95.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	21.375	0.520	0.000	74.49	29.52
95.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.375	0.520	0.000	0.00	22.14
95.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	21.375	0.520	0.000	74.49	44.27
95.00	(4) #20 Dywidag bars	Yes	5.00	0.983	5.00	2.08	2.05	21.375	0.520	0.000	77.05	0.00
95.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.375	0.520	0.000	0.00	22.14
95.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.375	0.520	0.000	0.00	22.14
100.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	21.690	0.537	0.000	75.59	29.52
100.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.690	0.537	0.000	0.00	22.14
100.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	21.690	0.537	0.000	75.59	44.27
100.0	(4) #20 Dywidag bars	Yes	5.00	0.976	5.00	2.08	2.03	21.690	0.537	0.000	77.61	0.00
100.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.690	0.537	0.000	0.00	22.14
100.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.690	0.537	0.000	0.00	22.14
105.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	21.995	0.556	0.000	76.65	29.52

Pole : 302489
Location : Enfd - Enfield, CT
Height : 150.0 (ft)
Shape : 12 Sides
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
Taper : 0.156700 (in/ft)

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



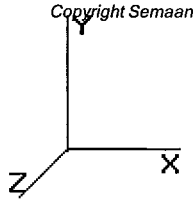
Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 26 Iterations

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

Wind Importance Factor : 1.00

105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.995	0.556	0.000	0.00	22.14
105.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	21.995	0.556	0.000	76.65	44.27
105.0	(4) #20 Dywidag bars	Yes	5.00	0.969	5.00	2.08	2.02	21.995	0.556	0.000	78.16	0.00
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.995	0.556	0.000	0.00	22.14
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.995	0.556	0.000	0.00	22.14
110.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	22.289	0.576	0.000	77.67	29.52
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.289	0.576	0.000	0.00	22.14
110.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	22.289	0.576	0.000	77.67	44.27
110.0	(4) #20 Dywidag bars	Yes	5.00	0.963	5.00	2.08	2.01	22.289	0.576	0.000	78.68	0.00
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.289	0.576	0.000	0.00	22.14
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.289	0.576	0.000	0.00	22.14
110.0	(8) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	22.289	0.587	0.000	0.01	0.00
110.0	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	22.289	0.587	0.000	0.00	0.00
110.0	(12) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	22.289	0.587	0.000	0.01	0.00
110.0	(4) #20 Dywidag bars	Yes	0.00	0.963	5.00	0.00	0.00	22.289	0.587	0.000	0.01	0.00
110.0	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	22.289	0.587	0.000	0.00	0.00
110.0	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	22.289	0.587	0.000	0.00	0.00
115.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	22.574	0.598	0.000	78.66	29.51
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.574	0.598	0.000	0.00	22.14
115.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	22.574	0.598	0.000	78.66	44.27
115.0	(4) #20 Dywidag bars	Yes	5.00	0.957	5.00	2.08	1.99	22.574	0.598	0.000	79.17	0.00
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.574	0.598	0.000	0.00	22.14
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.574	0.598	0.000	0.00	22.14
120.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	22.850	0.621	0.000	79.63	29.52
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.850	0.621	0.000	0.00	22.14
120.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	22.850	0.621	0.000	79.63	44.27
120.0	(4) #20 Dywidag bars	Yes	5.00	0.951	5.00	2.08	1.98	22.850	0.621	0.000	79.66	0.00
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.850	0.621	0.000	0.00	22.14
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.850	0.621	0.000	0.00	22.14
122.0	(8) 1 5/8" Coax	Yes	2.00	1.198	3.96	0.66	0.79	22.959	0.639	0.000	31.94	11.81
122.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.959	0.639	0.000	0.00	8.85
122.0	(12) 1 5/8" Coax	Yes	2.00	1.198	3.96	0.66	0.79	22.959	0.639	0.000	31.94	17.71
122.0	(4) #20 Dywidag bars	Yes	2.00	0.949	5.00	0.83	0.79	22.959	0.639	0.000	31.94	0.00
122.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.959	0.639	0.000	0.00	8.85
122.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	22.959	0.639	0.000	0.00	8.85
125.0	(8) 1 5/8" Coax	Yes	3.00	1.193	3.96	0.99	1.18	23.118	0.652	0.000	48.08	17.71
125.0	(6) 1 5/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	23.118	0.652	0.000	0.00	13.28
125.0	(12) 1 5/8" Coax	Yes	3.00	1.193	3.96	0.99	1.18	23.118	0.652	0.000	48.08	26.56
125.0	(4) #20 Dywidag bars	Yes	3.00	0.945	5.00	1.25	1.18	23.118	0.652	0.000	48.08	0.00
125.0	(6) 1 5/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	23.118	0.652	0.000	0.00	13.28
130.0	(8) 1 5/8" Coax	Yes	5.00	1.187	3.96	1.65	1.96	23.379	0.516	0.000	80.58	29.52
130.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	23.379	0.516	0.000	0.00	22.14
130.0	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	23.379	0.516	0.000	40.74	22.14
130.0	(12) 1 5/8" Coax	Yes	5.00	1.187	3.96	1.65	1.96	23.379	0.516	0.000	80.58	44.27
132.0	(8) 1 5/8" Coax	Yes	2.00	1.184	3.96	0.66	0.78	23.481	0.532	0.000	32.30	11.81
132.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	23.481	0.532	0.000	0.00	8.85
132.0	(6) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	23.481	0.532	0.000	16.37	8.85
132.0	(12) 1 5/8" Coax	Yes	2.00	1.184	3.96	0.66	0.78	23.481	0.532	0.000	32.30	17.71
135.0	(8) 1 5/8" Coax	Yes	3.00	1.180	3.96	0.99	1.17	23.632	0.326	0.000	48.61	17.71
135.0	(6) 1 5/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	23.632	0.326	0.000	0.00	13.28
135.0	(6) 1 5/8" Coax	Yes	3.00	1.200	1.98	0.50	0.59	23.632	0.326	0.000	24.71	13.28
140.0	(8) 1 5/8" Coax	Yes	5.00	1.174	3.96	1.65	1.94	23.879	0.338	0.000	81.43	29.52
140.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	23.879	0.338	0.000	0.00	22.14
140.0	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	23.879	0.338	0.000	41.61	22.14
145.0	(8) 1 5/8" Coax	Yes	5.00	1.168	3.96	1.65	1.93	24.120	0.236	0.000	81.84	29.52
150.0	(8) 1 5/8" Coax	Yes	5.00	1.163	3.96	1.65	1.92	24.355	0.249	0.000	82.24	29.52

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



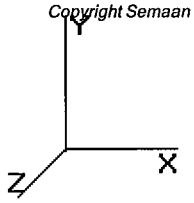
Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 26 Iterations

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

Wind Importance Factor : 1.00

Totals:	5,794.66	3,835.64

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



Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 26 Iterations

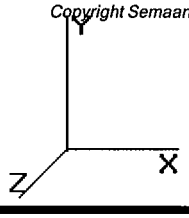
Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

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
5.00	693.93	1,169.75	0.00	0.00
10.00	682.96	1,155.27	0.00	0.00
15.00	671.99	1,140.78	0.00	0.00
20.00	661.03	1,126.29	0.00	0.00
25.00	650.06	1,111.80	0.00	0.00
30.00	639.61	1,097.32	0.00	0.00
31.50	192.31	326.44	0.00	0.00
35.00	463.97	1,106.70	0.00	0.00
35.67	88.24	209.45	0.00	0.00
40.00	586.19	851.18	0.00	0.00
45.00	686.89	970.94	0.00	0.00
50.00	694.12	958.87	0.00	0.00
55.00	699.25	946.79	0.00	0.00
56.00	815.34	357.11	0.00	0.00
60.00	557.29	746.71	0.00	0.00
65.00	699.57	922.52	0.00	0.00
70.00	699.77	910.45	0.00	0.00
70.00	0.05	0.06	0.00	0.00
73.50	494.25	863.20	0.00	0.00
75.00	210.80	246.18	0.00	0.00
80.00	705.75	814.50	0.00	0.00
85.00	702.64	804.85	0.00	0.00
90.00	698.56	795.19	0.00	0.00
95.00	693.58	785.53	0.00	0.00
100.0	687.77	775.87	0.00	0.00
105.0	681.18	766.22	0.00	0.00
110.0	673.86	756.56	0.00	0.00
110.0	0.04	0.05	0.00	0.00
115.0	665.81	683.87	0.00	0.00
120.0	657.20	676.67	0.00	0.00
122.0	624.63	339.92	0.00	0.00
125.0	386.26	187.11	0.00	0.00
130.0	596.47	306.05	0.00	0.00
132.0	3,264.98	1,802.49	0.00	0.00
135.0	300.48	151.85	0.00	0.00
140.0	2,403.91	1,812.21	0.00	0.00
145.0	437.28	195.77	0.00	0.00
150.0	2,802.03	2,281.93	0.00	5,045.88
Totals:	27,870.05	30,154.42	0.00	5,045.88

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



Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 26 Iterations

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

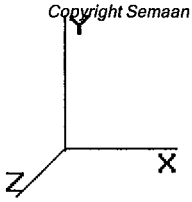
Wind Importance Factor : 1.00

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	-30.08	-27.95	0.00	-2,671.22	0.00	2,671.22	2,613.99	1,306.99	3,984.35	1,967.72	0.00	0.00	0.851
5.00	-28.77	-27.40	0.00	-2,531.48	0.00	2,531.48	2,558.64	1,279.32	3,816.59	1,884.87	0.16	-0.29	0.833
10.00	-27.49	-26.85	0.00	-2,394.49	0.00	2,394.49	2,503.30	1,251.65	3,652.43	1,803.80	0.62	-0.59	0.814
15.00	-26.22	-26.30	0.00	-2,260.25	0.00	2,260.25	2,447.95	1,223.98	3,491.89	1,724.51	1.40	-0.88	0.794
20.00	-24.97	-25.74	0.00	-2,128.77	0.00	2,128.77	2,392.60	1,196.30	3,334.95	1,647.01	2.48	-1.17	0.774
25.00	-23.75	-25.19	0.00	-2,000.06	0.00	2,000.06	2,337.26	1,168.63	3,181.62	1,571.28	3.86	-1.46	0.752
30.00	-22.59	-24.59	0.00	-1,874.12	0.00	1,874.12	2,281.91	1,140.96	3,031.90	1,497.34	5.55	-1.75	0.729
31.50	-22.21	-24.45	0.00	-1,837.23	0.00	1,837.23	2,265.31	1,132.65	2,987.68	1,475.50	6.11	-1.84	0.723
35.00	-21.07	-23.99	0.00	-1,751.68	0.00	1,751.68	2,226.57	1,113.28	2,885.79	1,425.19	7.54	-2.04	0.696
35.67	-20.80	-23.94	0.00	-1,735.68	0.00	1,735.68	1,889.79	944.90	2,499.95	1,234.63	7.83	-2.08	0.754
40.00	-19.87	-23.42	0.00	-1,631.93	0.00	1,631.93	1,849.82	924.91	2,394.82	1,182.71	9.83	-2.32	0.730
45.00	-18.81	-22.79	0.00	-1,514.84	0.00	1,514.84	1,803.70	901.85	2,276.32	1,124.19	12.42	-2.62	0.701
50.00	-17.78	-22.14	0.00	-1,400.91	0.00	1,400.91	1,757.58	878.79	2,160.82	1,067.15	15.32	-2.91	0.671
55.00	-16.80	-21.44	0.00	-1,290.23	0.00	1,290.23	1,711.46	855.73	2,048.33	1,011.59	18.51	-3.19	0.640
56.00	-16.44	-20.64	0.00	-1,268.79	0.00	1,268.79	1,702.23	851.12	2,026.20	1,000.66	19.19	-3.25	0.634
60.00	-15.64	-20.11	0.00	-1,186.22	0.00	1,186.22	1,665.34	832.67	1,938.85	957.53	22.01	-3.47	0.610
65.00	-14.68	-19.42	0.00	-1,085.67	0.00	1,085.67	1,619.22	809.61	1,832.38	904.94	25.78	-3.74	0.579
70.00	-13.77	-18.69	0.00	-988.55	0.00	988.55	1,573.10	786.55	1,728.91	853.84	29.84	-4.00	0.547
70.00	-13.74	-18.72	0.00	-988.54	0.00	988.54	1,573.09	786.55	1,728.90	853.84	29.84	-4.00	0.547
73.50	-12.88	-18.19	0.00	-923.04	0.00	923.04	1,259.14	629.57	1,387.79	685.38	32.84	-4.19	0.563
75.00	-12.59	-18.00	0.00	-895.76	0.00	895.76	1,248.07	624.03	1,363.39	673.33	34.17	-4.26	0.552
80.00	-11.76	-17.29	0.00	-805.76	0.00	805.76	1,211.17	605.59	1,283.60	633.92	38.77	-4.52	0.514
85.00	-10.94	-16.57	0.00	-719.32	0.00	719.32	1,174.27	587.14	1,206.22	595.71	43.64	-4.77	0.476
90.00	-10.15	-15.84	0.00	-636.49	0.00	636.49	1,137.38	568.69	1,131.25	558.68	48.75	-5.01	0.436
95.00	-9.37	-15.12	0.00	-557.27	0.00	557.27	1,100.48	550.24	1,058.68	522.84	54.11	-5.23	0.396
100.00	-8.61	-14.39	0.00	-481.68	0.00	481.68	1,063.58	531.79	988.52	488.19	59.69	-5.43	0.356
105.00	-7.87	-13.66	0.00	-409.72	0.00	409.72	1,026.69	513.34	920.76	454.73	65.48	-5.63	0.314
110.00	-7.17	-12.93	0.00	-341.40	0.00	341.40	989.79	494.89	855.40	422.45	71.46	-5.80	0.272
110.00	-7.15	-12.94	0.00	-341.40	0.00	341.40	989.79	494.89	855.40	422.45	71.46	-5.80	0.272
110.00	-7.15	-12.94	0.00	-341.40	0.00	341.40	989.79	494.89	855.40	422.45	71.46	-5.80	0.297
115.00	-6.51	-12.22	0.00	-276.70	0.00	276.70	716.88	358.44	599.87	296.25	77.60	-5.95	0.249
120.00	-5.88	-11.51	0.00	-215.59	0.00	215.59	689.20	344.60	554.25	273.72	83.91	-6.09	0.202
122.00	-5.60	-10.86	0.00	-192.57	0.00	192.57	689.20	344.60	554.25	273.72	86.47	-6.14	0.183
122.00	-5.60	-10.86	0.00	-192.57	0.00	192.57	689.20	344.60	554.25	273.72	86.47	-6.14	0.736
125.00	-5.41	-10.48	0.00	-160.00	0.00	160.00	661.53	330.77	510.43	252.08	90.34	-6.21	0.644
130.00	-5.13	-9.87	0.00	-107.62	0.00	107.62	633.86	316.93	468.41	231.33	97.05	-6.59	0.474
132.00	-3.71	-6.43	0.00	-87.88	0.00	87.88	622.79	311.39	452.11	223.28	99.83	-6.71	0.400
135.00	-3.57	-6.12	0.00	-68.60	0.00	68.60	606.19	303.09	428.21	211.47	104.09	-6.87	0.331
140.00	-2.06	-3.52	0.00	-37.99	0.00	37.99	578.51	289.26	389.80	192.51	111.38	-7.07	0.201
145.00	-1.91	-3.07	0.00	-20.38	0.00	20.38	550.84	275.42	353.20	174.43	118.83	-7.19	0.120
150.00	0.00	-2.80	0.00	-5.05	0.00	5.05	523.17	261.58	318.40	157.25	126.38	-7.25	0.032

Pole : 302489
Location : Enfd - Enfield, CT
Height : 150.0 (ft)
Shape : 12 Sides
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
Taper : 0.156700 (in/ft)

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



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.25 in Radial Ice — 26 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

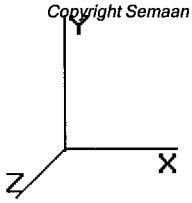
Shaft Segment Forces (Factored)

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
5.00		1.00	0.70	4.256	4.682	0.000	1.200	*	2.070	5.00	17.681	21.22	99.3	517.9	1,754.5
10.00		1.00	0.70	4.256	4.682	0.000	1.200	*	2.219	5.00	17.466	20.96	98.1	545.9	1,763.2
15.00		1.00	0.70	4.256	4.682	0.000	1.200	*	2.310	5.00	17.205	20.65	96.7	558.0	1,756.0
20.00		1.00	0.70	4.256	4.682	0.000	1.200	*	2.378	5.00	16.923	20.31	95.1	563.3	1,741.9
25.00		1.00	0.70	4.256	4.682	0.000	1.200	*	2.432	5.00	16.630	19.96	93.4	564.4	1,723.8
30.00		1.00	0.70	4.260	4.686	0.000	1.200	*	2.476	5.00	16.329	19.59	91.8	562.9	1,703.0
31.50	Bot - Section 2	1.00	0.71	4.319	4.751	0.000	1.200	*	2.488	1.50	4.837	5.80	27.6	168.7	507.0
35.00		1.00	0.73	4.451	4.897	0.000	1.200	*	2.515	3.50	11.368	13.64	66.8	398.8	1,648.2
35.67	Top - Section 1	1.00	0.73	4.475	4.923	0.000	1.200	*	2.520	0.67	2.148	2.58	12.7	75.9	312.1
40.00		1.00	0.76	4.625	5.087	0.000	1.200	*	2.549	4.33	13.831	16.60	84.4	489.6	1,344.5
45.00		1.00	0.78	4.783	5.261	0.000	1.200	*	2.579	5.00	15.670	18.80	98.9	559.0	1,530.6
50.00		1.00	0.81	4.929	5.422	0.000	1.200	*	2.606	5.00	15.355	18.43	99.9	552.2	1,507.6
55.00		1.00	0.83	5.065	5.572	0.000	1.200	*	2.631	5.00	15.038	18.05	100.5	544.5	1,483.9
56.00	Appertunance(s)	1.00	0.83	5.091	5.600	0.000	1.200	*	2.636	1.00	2.968	3.56	19.9	108.6	294.5
60.00		1.00	0.85	5.193	5.712	0.000	1.200	*	2.654	4.00	11.748	14.10	80.5	428.9	1,166.2
65.00		1.00	0.87	5.313	5.844	0.000	1.200	*	2.675	5.00	14.399	17.28	101.0	527.2	1,434.4
70.00		1.00	0.89	5.426	5.969	0.000	1.200	*	2.695	5.00	14.077	16.89	100.8	517.8	1,408.9
70.00	Bot - Section 3	1.00	0.89	5.426	5.969	0.000	1.200	*	2.695	0.00	0.001	0.00	0.0	0.0	0.1
73.50	Top - Section 2	1.00	0.90	5.502	6.053	0.000	1.200	*	2.708	3.50	9.812	11.77	71.3	363.8	1,288.7
75.00		1.00	0.91	5.534	6.088	0.000	1.200	*	2.714	1.50	4.155	4.99	30.4	155.0	386.4
80.00		1.00	0.92	5.637	6.201	0.000	1.200	*	2.731	5.00	13.647	16.38	101.6	506.5	1,269.6
85.00		1.00	0.94	5.736	6.309	0.000	1.200	*	2.748	5.00	13.323	15.99	100.9	495.9	1,246.2
90.00		1.00	0.95	5.830	6.413	0.000	1.200	*	2.764	5.00	12.998	15.60	100.0	485.0	1,222.4
95.00		1.00	0.97	5.921	6.513	0.000	1.200	*	2.779	5.00	12.673	15.21	99.0	473.8	1,198.3
100.0		1.00	0.98	6.008	6.609	0.000	1.200	*	2.793	5.00	12.347	14.82	97.9	462.3	1,173.9
105.0		1.00	1.00	6.093	6.702	0.000	1.200	*	2.807	5.00	12.020	14.42	96.7	450.5	1,149.3
110.0		1.00	1.01	6.174	6.792	0.000	1.200	*	2.820	5.00	11.693	14.03	95.3	438.5	1,124.4
110.0	Top - Section 3	1.00	1.01	6.174	6.792	0.000	1.200	*	2.820	0.00	0.001	0.00	0.0	0.0	0.1
115.0		1.00	1.02	6.253	6.879	0.000	1.200	*	2.832	5.00	11.365	13.64	93.8	426.3	1,015.3
120.0		1.00	1.04	6.330	6.963	0.000	1.200	*	2.845	5.00	11.038	13.25	92.2	413.9	993.3
122.0	Reinf. Top	1.00	1.04	6.360	6.996	0.000	1.200	*	2.849	2.00	4.322	5.19	36.3	163.6	392.6
125.0		1.00	1.05	6.404	7.044	0.000	1.200	*	2.856	3.00	6.385	7.66	54.0	240.8	381.0
130.0		1.00	1.06	6.476	7.124	0.000	1.200	*	2.867	5.00	10.381	12.46	88.7	388.5	614.6
132.0	Appertunance(s)	1.00	1.07	6.504	7.155	0.000	1.200	*	2.872	2.00	4.059	4.87	34.9	153.3	241.1
135.0		1.00	1.07	6.546	7.201	0.000	1.200	*	2.878	3.00	5.991	7.19	51.8	225.3	354.0
140.0	Appertunance(s)	1.00	1.08	6.615	7.276	0.000	1.200	*	2.889	5.00	9.723	11.67	84.9	362.5	569.2
145.0		1.00	1.09	6.681	7.350	0.000	1.200	*	2.899	5.00	9.393	11.27	82.8	349.2	546.3
150.0	Appertunance(s)	1.00	1.11	6.746	7.421	0.000	1.200	*	2.909	5.00	9.063	10.88	80.7	335.8	523.2
* = Cf Adjusted By Linear Load Ra Effect								Totals:		150.00			2,860.7	14,574.1	38,770.2

Pole : 302489
Location : Enfd - Enfield, CT
Height : 150.0 (ft)
Shape : 12 Sides
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
Taper : 0.156700 (in/ft)

Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure Category : B
Topographic Category : 1

Base Elev : 0.000 (ft)



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.25 in Radial Ice — 26 Iterations

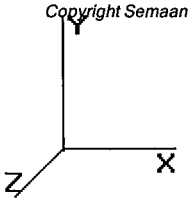
Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.00

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
Ice Importance Factor : 1.00

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	25.32	0.000	0.000	141.79	0.00	0.00	612.30
122.0	RFS APXV18-206517S-	3	6.360	6.996	0.58	0.80	12.72	0.000	0.000	88.96	0.00	0.00	782.85
132.0	Round Low Profile Pl	1	6.504	7.155	1.00	1.00	53.36	0.000	0.000	381.76	0.00	0.00	2,668.29
132.0	Antel LPA-185080/12C	6	6.504	7.155	0.70	0.80	23.36	0.000	0.000	167.10	0.00	0.00	1,669.69
132.0	Antel LPA-80080/6CF	6	6.504	7.155	0.59	0.80	38.65	0.000	0.000	276.51	0.00	0.00	2,325.05
140.0	Andrew Dual Duplex T	6	6.615	7.276	0.40	0.80	2.89	0.000	0.000	21.00	0.00	0.00	390.47
140.0	RFS APX16DWV-	3	6.615	7.276	0.54	0.80	12.76	0.000	0.000	92.88	0.00	0.00	892.00
140.0	EMS RR90-17-02DP	3	6.615	7.276	0.54	0.80	9.80	0.000	0.000	71.32	0.00	0.00	651.02
140.0	Flat Low Profile Pla	1	6.615	7.276	1.00	1.00	57.77	0.000	0.000	420.32	0.00	0.00	2,674.59
150.0	TTA	6	6.797	7.477	0.40	0.80	6.75	0.000	4.000	50.49	0.00	201.98	370.80
150.0	Powerwave LGP	6	6.797	7.477	0.40	0.80	1.93	0.000	4.000	14.42	0.00	57.66	250.16
150.0	Allgon 7770.00	6	6.797	7.477	0.60	0.80	26.45	0.000	4.000	197.77	0.00	791.10	1,814.13
150.0	Decibel DB809KE-SY	1	6.818	7.500	0.80	0.80	6.96	0.000	5.667	52.20	0.00	295.78	348.84
150.0	Round Platform w/ Ha	1	6.746	7.421	1.00	1.00	68.02	0.000	0.000	504.81	0.00	0.00	4.164.07
										2,481.34			19,614.27



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.25 in Radial Ice — 26 Iterations

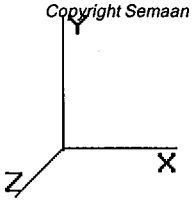
Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.00

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
Ice Importance Factor : 1.00

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)
5.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.38	4.05	4.256	0.345	0.000	18.96	206.14
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.345	0.000	0.00	161.15
5.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.38	4.05	4.256	0.345	0.000	18.96	296.12
5.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	3.81	4.57	4.256	0.345	0.000	21.40	117.11
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.345	0.000	0.00	161.15
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.345	0.000	0.00	161.15
5.00	(1) RG6	Yes	5.00	1.200	0.28	1.84	2.21	4.256	0.345	0.000	10.35	28.60
10.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.50	4.20	4.256	0.352	0.000	19.66	219.18
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.352	0.000	0.00	171.90
10.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.50	4.20	4.256	0.352	0.000	19.66	313.74
10.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	3.93	4.72	4.256	0.352	0.000	22.09	126.78
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.352	0.000	0.00	171.90
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.352	0.000	0.00	171.90
10.00	(1) RG6	Yes	5.00	1.200	0.28	1.97	2.36	4.256	0.352	0.000	11.04	32.65
15.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.58	4.29	4.256	0.360	0.000	20.09	227.38
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.360	0.000	0.00	178.68
15.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.58	4.29	4.256	0.360	0.000	20.09	324.76
15.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	4.01	4.81	4.256	0.360	0.000	22.52	132.89
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.360	0.000	0.00	178.68
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.360	0.000	0.00	178.68
15.00	(1) RG6	Yes	5.00	1.200	0.28	2.04	2.45	4.256	0.360	0.000	11.47	35.29
20.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.63	4.36	4.256	0.368	0.000	20.40	233.46
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.368	0.000	0.00	183.73
20.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.63	4.36	4.256	0.368	0.000	20.40	332.92
20.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	4.06	4.88	4.256	0.368	0.000	22.84	137.45
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.368	0.000	0.00	183.73
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.368	0.000	0.00	183.73
20.00	(1) RG6	Yes	5.00	1.200	0.28	2.10	2.52	4.256	0.368	0.000	11.79	37.29
25.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.68	4.41	4.256	0.377	0.000	20.65	238.34
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.377	0.000	0.00	187.79
25.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.68	4.41	4.256	0.377	0.000	20.65	339.46
25.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	4.11	4.93	4.256	0.377	0.000	23.09	141.11
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.377	0.000	0.00	187.79
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.377	0.000	0.00	187.79
25.00	(1) RG6	Yes	5.00	1.200	0.28	2.14	2.57	4.256	0.377	0.000	12.04	38.92
30.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.71	4.46	4.260	0.386	0.000	20.88	242.44
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.260	0.386	0.000	0.00	191.19
30.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.71	4.46	4.260	0.386	0.000	20.88	344.93
30.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	4.15	4.98	4.260	0.386	0.000	23.32	144.19
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.260	0.386	0.000	0.00	191.19
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.260	0.386	0.000	0.00	191.19
30.00	(1) RG6	Yes	5.00	1.200	0.28	2.18	2.62	4.260	0.386	0.000	12.26	40.31
31.50	(8) 1 5/8" Coax	Yes	1.50	1.200	3.96	1.12	1.34	4.319	0.392	0.000	6.37	73.08
31.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	4.319	0.392	0.000	0.00	57.65
31.50	(12) 1 5/8" Coax	Yes	1.50	1.200	3.96	1.12	1.34	4.319	0.392	0.000	6.37	103.95
31.50	(4) #20 Dywidag bars	Yes	1.50	1.200	5.00	1.25	1.50	4.319	0.392	0.000	7.11	43.52
31.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	4.319	0.392	0.000	0.00	57.65
31.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	4.319	0.392	0.000	0.00	57.65
31.50	(1) RG6	Yes	1.50	1.200	0.28	0.66	0.79	4.319	0.392	0.000	3.75	12.21
35.00	(8) 1 5/8" Coax	Yes	3.50	1.200	3.96	2.62	3.15	4.451	0.396	0.000	15.40	172.17
35.00	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	4.451	0.396	0.000	0.00	135.89



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.25 in Radial Ice — 26 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

35.00	(12) 1 5/8" Coax	Yes	3.50	1.200	3.96	2.62	3.15	4.451	0.396	0.000	15.40	244.74
35.00	(4) #20 Dywidag bars	Yes	3.50	1.200	5.00	2.92	3.51	4.451	0.396	0.000	17.19	102.79
35.00	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	4.451	0.396	0.000	0.00	135.89
35.00	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	4.451	0.396	0.000	0.00	135.89
35.00	(1) RG6	Yes	3.50	1.200	0.28	1.55	1.86	4.451	0.396	0.000	9.10	29.06
35.67	(8) 1 5/8" Coax	Yes	0.67	1.200	3.96	0.50	0.60	4.475	0.400	0.000	2.95	32.87
35.67	(6) 1 5/8" Coax	Yes	0.67	0.000	0.00	0.00	0.00	4.475	0.400	0.000	0.00	25.95
35.67	(12) 1 5/8" Coax	Yes	0.67	1.200	3.96	0.50	0.60	4.475	0.400	0.000	2.95	46.72
35.67	(4) #20 Dywidag bars	Yes	0.67	1.200	5.00	0.56	0.67	4.475	0.400	0.000	3.30	19.64
35.67	(6) 1 5/8" Coax	Yes	0.67	0.000	0.00	0.00	0.00	4.475	0.400	0.000	0.00	25.95
35.67	(6) 1 5/8" Coax	Yes	0.67	0.000	0.00	0.00	0.00	4.475	0.400	0.000	0.00	25.95
35.67	(1) RG6	Yes	0.67	1.200	0.28	0.30	0.35	4.475	0.400	0.000	1.75	5.56
40.00	(8) 1 5/8" Coax	Yes	4.33	1.200	3.96	3.27	3.92	4.625	0.397	0.000	19.96	215.88
40.00	(6) 1 5/8" Coax	Yes	4.33	0.000	0.00	0.00	0.00	4.625	0.397	0.000	0.00	170.51
40.00	(12) 1 5/8" Coax	Yes	4.33	1.200	3.96	3.27	3.92	4.625	0.397	0.000	19.96	306.63
40.00	(4) #20 Dywidag bars	Yes	4.33	1.200	5.00	3.65	4.38	4.625	0.397	0.000	22.26	129.31
40.00	(6) 1 5/8" Coax	Yes	4.33	0.000	0.00	0.00	0.00	4.625	0.397	0.000	0.00	170.51
40.00	(6) 1 5/8" Coax	Yes	4.33	0.000	0.00	0.00	0.00	4.625	0.397	0.000	0.00	170.51
40.00	(1) RG6	Yes	4.33	1.200	0.28	1.94	2.33	4.625	0.397	0.000	11.85	36.92
45.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.80	4.56	4.783	0.407	0.000	23.98	251.92
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.783	0.407	0.000	0.00	199.09
45.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.80	4.56	4.783	0.407	0.000	23.98	357.56
45.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	4.23	5.08	4.783	0.407	0.000	26.72	151.34
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.783	0.407	0.000	0.00	199.09
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.783	0.407	0.000	0.00	199.09
45.00	(1) RG6	Yes	5.00	1.200	0.28	2.27	2.72	4.783	0.407	0.000	14.30	43.59
50.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.82	4.59	4.929	0.417	0.000	24.86	254.46
50.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.929	0.417	0.000	0.00	201.22
50.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.82	4.59	4.929	0.417	0.000	24.86	360.95
50.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	4.26	5.11	4.929	0.417	0.000	27.68	153.27
50.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.929	0.417	0.000	0.00	201.22
50.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.929	0.417	0.000	0.00	201.22
50.00	(1) RG6	Yes	5.00	1.200	0.28	2.29	2.75	4.929	0.417	0.000	14.89	44.48
55.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.84	4.61	5.065	0.428	0.000	25.69	256.80
55.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.065	0.428	0.000	0.00	203.17
55.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.84	4.61	5.065	0.428	0.000	25.69	364.06
55.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	4.28	5.13	5.065	0.428	0.000	28.59	155.04
55.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.065	0.428	0.000	0.00	203.17
55.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.065	0.428	0.000	0.00	203.17
55.00	(1) RG6	Yes	5.00	1.200	0.28	2.31	2.77	5.065	0.428	0.000	15.44	45.30
56.00	(8) 1 5/8" Coax	Yes	1.00	1.200	3.96	0.77	0.92	5.091	0.435	0.000	5.17	51.45
56.00	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.091	0.435	0.000	0.00	40.71
56.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.96	0.77	0.92	5.091	0.435	0.000	5.17	72.93
56.00	(4) #20 Dywidag bars	Yes	1.00	1.200	5.00	0.86	1.03	5.091	0.435	0.000	5.75	31.07
56.00	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.091	0.435	0.000	0.00	40.71
56.00	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.091	0.435	0.000	0.00	40.71
56.00	(1) RG6	Yes	1.00	1.200	0.28	0.46	0.56	5.091	0.435	0.000	3.11	9.09
60.00	(8) 1 5/8" Coax	Yes	4.00	1.200	3.96	3.09	3.71	5.193	0.432	0.000	21.17	207.17
60.00	(6) 1 5/8" Coax	Yes	4.00	0.000	0.00	0.00	0.00	5.193	0.432	0.000	0.00	163.98
60.00	(12) 1 5/8" Coax	Yes	4.00	1.200	3.96	3.09	3.71	5.193	0.432	0.000	21.17	293.54
60.00	(4) #20 Dywidag bars	Yes	4.00	1.200	5.00	3.44	4.12	5.193	0.432	0.000	23.55	125.34
60.00	(6) 1 5/8" Coax	Yes	4.00	0.000	0.00	0.00	0.00	5.193	0.432	0.000	0.00	163.98
60.00	(6) 1 5/8" Coax	Yes	4.00	0.000	0.00	0.00	0.00	5.193	0.432	0.000	0.00	163.98
65.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.88	4.66	5.313	0.442	0.000	27.21	260.97
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.313	0.442	0.000	0.00	206.66
65.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.88	4.66	5.313	0.442	0.000	27.21	369.59
65.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	4.31	5.18	5.313	0.442	0.000	30.24	158.20

Pole :	302489			Code: ANSI/TIA-222 Rev G								
Location :	Enfd - Enfield, CT			Struct Class : II							3/12/2009 4:30:56 PM	
Height :	150.0 (ft)			Exposure Category : B							Page: 26	
Shape :	12 Sides			Topographic Category : 1								
Base Dia :	37.38 (in)											
Top Dia :	15.00 (in)											
Taper :	0.156700 (in/ft)			Base Elev : 0.000 (ft)								

Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.25 in Radial Ice — 26 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

65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.313	0.442	0.000	0.00	206.66
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.313	0.442	0.000	0.00	206.66
70.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.90	4.68	5.426	0.455	0.000	27.91	262.85
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.426	0.455	0.000	0.00	208.23
70.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.90	4.68	5.426	0.455	0.000	27.91	372.08
70.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	4.33	5.20	5.426	0.455	0.000	31.01	159.62
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.426	0.455	0.000	0.00	208.23
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.426	0.455	0.000	0.00	208.23
70.00	(8) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	5.426	0.462	0.000	0.00	0.02
70.00	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	5.426	0.462	0.000	0.00	0.01
70.00	(12) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	5.426	0.462	0.000	0.00	0.02
70.00	(4) #20 Dywidag bars	Yes	0.00	1.200	5.00	0.00	0.00	5.426	0.462	0.000	0.00	0.01
70.00	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	5.426	0.462	0.000	0.00	0.01
70.00	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	5.426	0.462	0.000	0.00	0.01
73.50	(8) 1 5/8" Coax	Yes	3.50	1.200	3.96	2.73	3.28	5.502	0.466	0.000	19.86	184.86
73.50	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	5.502	0.466	0.000	0.00	146.49
73.50	(12) 1 5/8" Coax	Yes	3.50	1.200	3.96	2.73	3.28	5.502	0.466	0.000	19.86	261.61
73.50	(4) #20 Dywidag bars	Yes	3.50	1.200	5.00	3.04	3.65	5.502	0.466	0.000	22.07	112.40
73.50	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	5.502	0.466	0.000	0.00	146.49
73.50	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	5.502	0.466	0.000	0.00	146.49
75.00	(8) 1 5/8" Coax	Yes	1.50	1.200	3.96	1.17	1.41	5.534	0.464	0.000	8.57	79.37
75.00	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	5.534	0.464	0.000	0.00	62.90
75.00	(12) 1 5/8" Coax	Yes	1.50	1.200	3.96	1.17	1.41	5.534	0.464	0.000	8.57	112.30
75.00	(4) #20 Dywidag bars	Yes	1.50	1.200	5.00	1.30	1.56	5.534	0.464	0.000	9.52	48.28
75.00	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	5.534	0.464	0.000	0.00	62.90
75.00	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	5.534	0.464	0.000	0.00	62.90
80.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.93	4.71	5.637	0.473	0.000	29.22	266.28
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.637	0.473	0.000	0.00	211.10
80.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.93	4.71	5.637	0.473	0.000	29.22	376.63
80.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	4.36	5.23	5.637	0.473	0.000	32.44	162.23
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.637	0.473	0.000	0.00	211.10
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.637	0.473	0.000	0.00	211.10
85.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.94	4.73	5.736	0.488	0.000	29.83	267.86
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.736	0.488	0.000	0.00	212.43
85.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.94	4.73	5.736	0.488	0.000	29.83	378.72
85.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	4.37	5.25	5.736	0.488	0.000	33.11	163.43
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.736	0.488	0.000	0.00	212.43
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.736	0.488	0.000	0.00	212.43
90.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.95	4.74	5.830	0.503	0.000	30.42	269.36
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.830	0.503	0.000	0.00	213.68
90.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.95	4.74	5.830	0.503	0.000	30.42	380.71
90.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	4.39	5.26	5.830	0.503	0.000	33.76	164.58
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.830	0.503	0.000	0.00	213.68
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.830	0.503	0.000	0.00	213.68
95.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.97	4.76	5.921	0.520	0.000	30.99	270.79
95.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.921	0.520	0.000	0.00	214.88
95.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.97	4.76	5.921	0.520	0.000	30.99	382.60
95.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	4.40	5.28	5.921	0.520	0.000	34.38	165.67
95.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.921	0.520	0.000	0.00	214.88
95.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.921	0.520	0.000	0.00	214.88
100.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.98	4.77	6.008	0.537	0.000	31.55	272.15
100.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.008	0.537	0.000	0.00	216.03
100.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.98	4.77	6.008	0.537	0.000	31.55	384.40
100.0	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	4.41	5.29	6.008	0.537	0.000	34.98	166.71
100.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.008	0.537	0.000	0.00	216.03
100.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.008	0.537	0.000	0.00	216.03
105.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.99	4.79	6.093	0.556	0.000	32.08	273.46

Pole :	302489			Code: ANSI/TIA-222 Rev G								
Location :	Enfd - Enfield, CT			Struct Class : II							3/12/2009 4:30:57 PM	
Height :	150.0 (ft)			Exposure Category : B							Page: 27	
Shape :	12 Sides			Topographic Category : 1								
Base Dia :	37.38 (in)											
Top Dia :	15.00 (in)											
Taper :	0.156700 (in/ft)			Base Elev : 0.000 (ft)								

Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.25 in Radial Ice — 26 Iterations

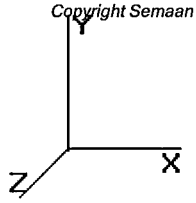
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.093	0.556	0.000	0.00	217.13
105.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.99	4.79	6.093	0.556	0.000	32.08	386.13
105.0	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	4.42	5.31	6.093	0.556	0.000	35.57	167.71
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.093	0.556	0.000	0.00	217.13
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.093	0.556	0.000	0.00	217.13
110.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	4.00	4.80	6.174	0.576	0.000	32.60	274.72
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.174	0.576	0.000	0.00	218.18
110.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	4.00	4.80	6.174	0.576	0.000	32.60	387.79
110.0	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	4.43	5.32	6.174	0.576	0.000	36.13	168.67
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.174	0.576	0.000	0.00	218.18
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.174	0.576	0.000	0.00	218.18
110.0	(8) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	6.174	0.587	0.000	0.00	0.02
110.0	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	6.174	0.587	0.000	0.00	0.01
110.0	(12) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	6.174	0.587	0.000	0.00	0.03
110.0	(4) #20 Dywidag bars	Yes	0.00	1.200	5.00	0.00	0.00	6.174	0.587	0.000	0.00	0.01
110.0	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	6.174	0.587	0.000	0.00	0.01
110.0	(6) 1 5/8" Coax	Yes	0.00	0.000	0.00	0.00	0.00	6.174	0.587	0.000	0.00	0.01
115.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	4.01	4.81	6.253	0.598	0.000	33.10	275.91
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.253	0.598	0.000	0.00	219.18
115.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	4.01	4.81	6.253	0.598	0.000	33.10	389.36
115.0	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	4.44	5.33	6.253	0.598	0.000	36.68	169.58
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.253	0.598	0.000	0.00	219.18
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.253	0.598	0.000	0.00	219.18
120.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	4.02	4.82	6.330	0.621	0.000	33.59	277.09
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.330	0.621	0.000	0.00	220.17
120.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	4.02	4.82	6.330	0.621	0.000	33.59	390.92
120.0	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	4.45	5.34	6.330	0.621	0.000	37.21	170.48
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.330	0.621	0.000	0.00	220.17
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.330	0.621	0.000	0.00	220.17
122.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.61	1.93	6.360	0.639	0.000	13.51	111.02
122.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.360	0.639	0.000	0.00	88.22
122.0	(12) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.61	1.93	6.360	0.639	0.000	13.51	156.61
122.0	(4) #20 Dywidag bars	Yes	2.00	1.200	5.00	1.78	2.14	6.360	0.639	0.000	14.97	68.33
122.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.360	0.639	0.000	0.00	88.22
122.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.360	0.639	0.000	0.00	88.22
125.0	(8) 1 5/8" Coax	Yes	3.00	1.200	3.96	2.42	2.90	6.404	0.652	0.000	20.44	166.93
125.0	(6) 1 5/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	6.404	0.652	0.000	0.00	132.67
125.0	(12) 1 5/8" Coax	Yes	3.00	1.200	3.96	2.42	2.90	6.404	0.652	0.000	20.44	235.44
125.0	(4) #20 Dywidag bars	Yes	3.00	1.200	5.00	2.68	3.21	6.404	0.652	0.000	22.64	102.80
125.0	(6) 1 5/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	6.404	0.652	0.000	0.00	132.67
130.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	4.04	4.85	6.476	0.516	0.000	34.53	279.30
130.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.476	0.516	0.000	0.00	222.03
130.0	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	3.21	3.86	6.476	0.516	0.000	27.48	222.03
130.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	4.04	4.85	6.476	0.516	0.000	34.53	393.83
132.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.62	1.94	6.504	0.532	0.000	13.89	111.89
132.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.504	0.532	0.000	0.00	88.95
132.0	(6) 1 5/8" Coax	Yes	2.00	1.200	1.98	1.29	1.54	6.504	0.532	0.000	11.05	88.95
132.0	(12) 1 5/8" Coax	Yes	2.00	1.200	3.96	1.62	1.94	6.504	0.532	0.000	13.89	157.76
135.0	(8) 1 5/8" Coax	Yes	3.00	1.200	3.96	2.43	2.91	6.546	0.326	0.000	20.99	168.21
135.0	(6) 1 5/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	6.546	0.326	0.000	0.00	133.75
135.0	(6) 1 5/8" Coax	Yes	3.00	1.200	1.98	1.93	2.32	6.546	0.326	0.000	16.71	133.75
140.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	4.06	4.87	6.615	0.338	0.000	35.43	281.36
140.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.615	0.338	0.000	0.00	223.76
140.0	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	3.23	3.88	6.615	0.338	0.000	28.22	223.76
145.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	4.07	4.88	6.681	0.236	0.000	35.86	282.34
150.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	4.07	4.89	6.746	0.249	0.000	36.28	283.30

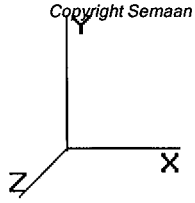
Pole :	302489	Code: ANSI/TIA-222 Rev G	
Location :	Enfd - Enfield, CT	Struct Class : II	
Height :	150.0 (ft)	Exposure Category : B	
Shape :	12 Sides	Topographic Category : 1	
Base Dia :	37.38 (in)		
Top Dia :	15.00 (in)		
Taper :	0.156700 (in/ft)	Base Elev : 0.000 (ft)	



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.25 in Radial Ice — 26 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		

Totals: 2,528.31 38,107.21



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.25 in Radial Ice — 26 Iterations

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

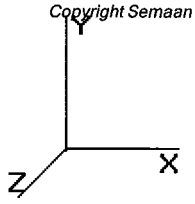
Ice Dead Load Factor : 1.00

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
5.00	168.99	2,910.51	0.00	0.00
10.00	170.57	2,995.82	0.00	0.00
15.00	170.82	3,037.00	0.00	0.00
20.00	170.50	3,058.84	0.00	0.00
25.00	169.86	3,069.58	0.00	0.00
30.00	169.15	3,073.03	0.00	0.00
31.50	51.18	920.07	0.00	0.00
35.00	123.89	2,621.89	0.00	0.00
35.67	23.65	498.01	0.00	0.00
40.00	158.47	2,566.12	0.00	0.00
45.00	187.92	2,956.86	0.00	0.00
50.00	192.21	2,949.03	0.00	0.00
55.00	195.95	2,939.16	0.00	0.00
56.00	180.94	1,198.41	0.00	0.00
60.00	146.42	2,303.91	0.00	0.00
65.00	185.63	2,867.72	0.00	0.00
70.00	187.66	2,852.70	0.00	0.00
70.00	0.01	0.19	0.00	0.00
73.50	133.06	2,304.30	0.00	0.00
75.00	57.01	822.40	0.00	0.00
80.00	192.43	2,732.69	0.00	0.00
85.00	193.65	2,718.06	0.00	0.00
90.00	194.64	2,702.67	0.00	0.00
95.00	195.42	2,686.58	0.00	0.00
100.0	196.00	2,669.86	0.00	0.00
105.0	196.40	2,652.56	0.00	0.00
110.0	196.63	2,634.73	0.00	0.00
110.0	0.01	0.18	0.00	0.00
115.0	196.69	2,532.26	0.00	0.00
120.0	196.62	2,516.88	0.00	0.00
122.0	167.24	1,785.90	0.00	0.00
125.0	117.49	1,166.32	0.00	0.00
130.0	185.28	1,756.35	0.00	0.00
132.0	899.06	7,361.48	0.00	0.00
135.0	89.47	804.47	0.00	0.00
140.0	754.05	5,930.76	0.00	0.00
145.0	118.70	853.21	0.00	0.00
150.0	936.68	7,779.10	0.00	1,346.52
Totals:	7,870.35	97,229.60	0.00	1,346.52

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



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.25 in Radial Ice — 26 Iterations

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

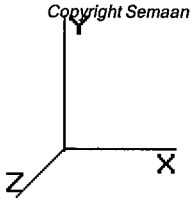
Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

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	-97.22	-7.96	0.00	-895.86	0.00	895.86	2,613.99	1,306.99	3,984.35	1,967.72	0.00	0.00	0.309
5.00	-94.30	-7.95	0.00	-856.08	0.00	856.08	2,558.64	1,279.32	3,816.59	1,884.87	0.05	-0.10	0.304
10.00	-91.29	-7.93	0.00	-816.35	0.00	816.35	2,503.30	1,251.65	3,652.43	1,803.80	0.21	-0.20	0.300
15.00	-88.24	-7.90	0.00	-776.71	0.00	776.71	2,447.95	1,223.98	3,491.89	1,724.51	0.47	-0.30	0.295
20.00	-85.17	-7.86	0.00	-737.21	0.00	737.21	2,392.60	1,196.30	3,334.95	1,647.01	0.84	-0.40	0.289
25.00	-82.09	-7.81	0.00	-697.91	0.00	697.91	2,337.26	1,168.63	3,181.62	1,571.28	1.31	-0.50	0.283
30.00	-79.01	-7.70	0.00	-658.86	0.00	658.86	2,281.91	1,140.96	3,031.90	1,497.34	1.89	-0.60	0.277
31.50	-78.08	-7.71	0.00	-647.30	0.00	647.30	2,265.31	1,132.65	2,987.68	1,475.50	2.09	-0.63	0.275
35.00	-75.45	-7.61	0.00	-620.32	0.00	620.32	2,226.57	1,113.28	2,885.79	1,425.19	2.58	-0.70	0.267
35.67	-74.95	-7.65	0.00	-615.24	0.00	615.24	1,889.79	944.90	2,499.95	1,234.63	2.68	-0.72	0.289
40.00	-72.37	-7.58	0.00	-582.10	0.00	582.10	1,849.82	924.91	2,394.82	1,182.71	3.37	-0.80	0.282
45.00	-69.41	-7.47	0.00	-544.21	0.00	544.21	1,803.70	901.85	2,276.32	1,124.19	4.27	-0.91	0.273
50.00	-66.45	-7.35	0.00	-506.85	0.00	506.85	1,757.58	878.79	2,160.82	1,067.15	5.27	-1.01	0.263
55.00	-63.50	-7.17	0.00	-470.10	0.00	470.10	1,711.46	855.73	2,048.33	1,011.59	6.39	-1.12	0.253
56.00	-62.30	-7.02	0.00	-462.93	0.00	462.93	1,702.23	851.12	2,026.20	1,000.66	6.63	-1.14	0.251
60.00	-59.99	-6.92	0.00	-434.85	0.00	434.85	1,665.34	832.67	1,938.85	957.53	7.62	-1.22	0.243
65.00	-57.12	-6.77	0.00	-400.25	0.00	400.25	1,619.22	809.61	1,832.38	904.94	8.95	-1.32	0.232
70.00	-54.27	-6.56	0.00	-366.40	0.00	366.40	1,573.10	786.55	1,728.91	853.84	10.38	-1.42	0.220
70.00	-54.26	-6.59	0.00	-366.40	0.00	366.40	1,573.09	786.55	1,728.90	853.84	10.38	-1.42	0.220
73.50	-51.96	-6.44	0.00	-343.33	0.00	343.33	1,259.14	629.57	1,387.79	685.38	11.44	-1.48	0.229
75.00	-51.13	-6.42	0.00	-333.67	0.00	333.67	1,248.07	624.03	1,363.39	673.33	11.91	-1.51	0.225
80.00	-48.39	-6.24	0.00	-301.56	0.00	301.56	1,211.17	605.59	1,283.60	633.92	13.55	-1.61	0.211
85.00	-45.67	-6.04	0.00	-270.38	0.00	270.38	1,174.27	587.14	1,206.22	595.71	15.28	-1.70	0.197
90.00	-42.97	-5.82	0.00	-240.21	0.00	240.21	1,137.38	568.69	1,131.25	558.68	17.11	-1.79	0.182
95.00	-40.28	-5.60	0.00	-211.09	0.00	211.09	1,100.48	550.24	1,058.68	522.84	19.04	-1.87	0.166
100.00	-37.61	-5.36	0.00	-183.10	0.00	183.10	1,063.58	531.79	988.52	488.19	21.04	-1.95	0.151
105.00	-34.96	-5.12	0.00	-156.28	0.00	156.28	1,026.69	513.34	920.76	454.73	23.13	-2.03	0.134
110.00	-32.33	-4.84	0.00	-130.69	0.00	130.69	989.79	494.89	855.40	422.45	25.28	-2.09	0.118
110.00	-32.33	-4.86	0.00	-130.69	0.00	130.69	989.79	494.89	855.40	422.45	25.28	-2.09	0.118
110.00	-32.33	-4.86	0.00	-130.69	0.00	130.69	989.79	494.89	855.40	422.45	25.28	-2.09	0.129
115.00	-29.80	-4.60	0.00	-106.38	0.00	106.38	716.88	358.44	599.87	296.25	27.51	-2.15	0.110
120.00	-27.29	-4.33	0.00	-83.38	0.00	83.38	689.20	344.60	554.25	273.72	29.79	-2.20	0.091
122.00	-25.51	-4.10	0.00	-74.73	0.00	74.73	689.20	344.60	554.25	273.72	30.72	-2.22	0.083
122.00	-25.51	-4.10	0.00	-74.73	0.00	74.73	689.20	344.60	554.25	273.72	30.72	-2.22	0.320
125.00	-24.34	-3.98	0.00	-62.42	0.00	62.42	661.53	330.77	510.43	252.08	32.12	-2.25	0.285
130.00	-22.59	-3.76	0.00	-42.55	0.00	42.55	633.86	316.93	468.41	231.33	34.56	-2.40	0.220
132.00	-15.27	-2.56	0.00	-35.03	0.00	35.03	622.79	311.39	452.11	223.28	35.58	-2.45	0.181
135.00	-14.47	-2.46	0.00	-27.35	0.00	27.35	606.19	303.09	428.21	211.47	37.14	-2.51	0.153
140.00	-8.58	-1.45	0.00	-15.06	0.00	15.06	578.51	289.26	389.80	192.51	39.81	-2.59	0.093
145.00	-7.73	-1.30	0.00	-7.82	0.00	7.82	550.84	275.42	353.20	174.43	42.55	-2.64	0.059
150.00	0.00	-0.94	0.00	-1.35	0.00	1.35	523.17	261.58	318.40	157.25	45.32	-2.66	0.009

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



Load Case: 1.2D + 1.0E — Dead Load with Seismic — 0 Iterations

Gust Response Factor : 1.10		Sds : 0.19	Ss : 0.23
Dead Load Factor : 1.20	Seismic Load Factor : 1.00	Sd1 : 0.07	S1 : 0.06
Wind Load Factor : 0.00	Structure Frequency : 0.3076	SA : 0.02	Seismic Importance Factor : 1.00

Total Segment Forces (Factored)

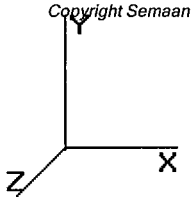
R : 1.50

Seg Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)
0.00		0.00	0.00	0.00	0.00	0.00
5.00		752.19	0.00	0.03	0.02	16.97
10.00		736.10	0.01	0.05	0.03	23.06
15.00		720.00	0.02	0.07	0.04	26.35
20.00		703.90	0.03	0.08	0.04	29.47
25.00		687.81	0.05	0.10	0.05	33.94
30.00		671.71	0.08	0.12	0.05	40.68
31.50	Bot - Section 2	198.42	0.08	0.13	0.05	12.86
35.00		846.43	0.10	0.15	0.05	64.67
35.67	Top - Section 1	159.68	0.11	0.16	0.05	12.60
40.00		471.26	0.13	0.20	0.05	45.68
45.00		531.29	0.17	0.26	0.06	64.43
50.00		517.87	0.21	0.33	0.06	76.59
55.00		504.46	0.25	0.41	0.07	88.28
56.00	Appertunance(s)	159.28	0.26	0.43	0.07	28.72
60.00		391.76	0.30	0.50	0.08	78.66
65.00		477.63	0.35	0.59	0.10	106.89
70.00		464.22	0.41	0.68	0.11	112.73
70.00	Bot - Section 3	0.03	0.41	0.68	0.11	0.01
73.50	Top - Section 2	575.94	0.45	0.74	0.12	145.90
75.00		109.35	0.47	0.77	0.13	28.11
80.00		357.62	0.54	0.84	0.14	94.98
85.00		346.89	0.61	0.89	0.16	92.95
90.00		336.16	0.68	0.91	0.17	88.62
95.00		325.42	0.76	0.91	0.19	82.13
100.0		314.69	0.84	0.88	0.21	73.72
105.0		303.96	0.93	0.82	0.23	63.82
110.0		293.23	1.02	0.74	0.25	53.08
110.0	Top - Section 3	0.02	1.02	0.74	0.25	0.00
115.0		212.50	1.11	0.64	0.28	31.88
120.0		204.47	1.21	0.55	0.32	24.70
122.0	Reinf. Top	139.53	1.25	0.51	0.34	15.45
125.0		116.89	1.31	0.47	0.37	11.48
130.0		188.37	1.42	0.46	0.45	16.46
132.0	Appertunance(s)	373.10	1.46	0.47	0.48	32.59
135.0		107.23	1.53	0.54	0.55	9.95
140.0	Appertunance(s)	498.28	1.65	0.77	0.69	58.65
145.0		164.23	1.77	1.22	0.88	26.93
150.0	Appertunance(s)	2482.18	1.89	1.98	1.14	575.97
	Totals:	16,444.11				2,389.96

Total Wind : 27,870.1

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

Pole :	302489	Code: ANSI/TIA-222 Rev G	3/12/2009 4:30:59 PM
Location :	Enfd - Enfield, CT	Struct Class : II	Page: 32
Height :	150.0 (ft)	Exposure Category : B	
Shape :	12 Sides	Topographic Category : 1	
Base Dia :	37.38 (in)		
Top Dia :	15.00 (in)		
Taper :	0.156700 (in/ft)	Base Elev : 0.000 (ft)	



Load Case: 0.9D + 1.0E — Dead Load with Seismic (Reduced DL) — 0 Iterations

Gust Response Factor : 1.10		Sds : 0.19	Ss : 0.23
Dead Load Factor : 0.90	Seismic Load Factor : 1.00	Sd1 : 0.07	S1 : 0.06
Wind Load Factor : 0.00	Structure Frequency : 0.3076	SA : 0.02	Seismic Importance Factor : 1.00

Total Segment Forces (Factored)

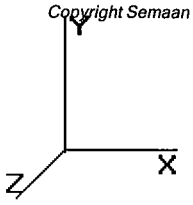
R : 1.50

Seg Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)
0.00		0.00	0.00	0.00	0.00	0.00
5.00		752.19	0.00	0.03	0.02	16.97
10.00		736.10	0.01	0.05	0.03	23.06
15.00		720.00	0.02	0.07	0.04	26.35
20.00		703.90	0.03	0.08	0.04	29.47
25.00		687.81	0.05	0.10	0.05	33.94
30.00		671.71	0.08	0.12	0.05	40.68
31.50	Bot - Section 2	198.42	0.08	0.13	0.05	12.86
35.00		846.43	0.10	0.15	0.05	64.67
35.67	Top - Section 1	159.68	0.11	0.16	0.05	12.60
40.00		471.26	0.13	0.20	0.05	45.68
45.00		531.29	0.17	0.26	0.06	64.43
50.00		517.87	0.21	0.33	0.06	76.59
55.00		504.46	0.25	0.41	0.07	88.28
56.00	Appertunance(s)	159.28	0.26	0.43	0.07	28.72
60.00		391.76	0.30	0.50	0.08	78.66
65.00		477.63	0.35	0.59	0.10	106.89
70.00		464.22	0.41	0.68	0.11	112.73
70.00	Bot - Section 3	0.03	0.41	0.68	0.11	0.01
73.50	Top - Section 2	575.94	0.45	0.74	0.12	145.90
75.00		109.35	0.47	0.77	0.13	28.11
80.00		357.62	0.54	0.84	0.14	94.98
85.00		346.89	0.61	0.89	0.16	92.95
90.00		336.16	0.68	0.91	0.17	88.62
95.00		325.42	0.76	0.91	0.19	82.13
100.0		314.69	0.84	0.88	0.21	73.72
105.0		303.96	0.93	0.82	0.23	63.82
110.0		293.23	1.02	0.74	0.25	53.08
110.0	Top - Section 3	0.02	1.02	0.74	0.25	0.00
115.0		212.50	1.11	0.64	0.28	31.88
120.0		204.47	1.21	0.55	0.32	24.70
122.0	Reinf. Top	139.53	1.25	0.51	0.34	15.45
125.0		116.89	1.31	0.47	0.37	11.48
130.0		188.37	1.42	0.46	0.45	16.46
132.0	Appertunance(s)	373.10	1.46	0.47	0.48	32.59
135.0		107.23	1.53	0.54	0.55	9.95
140.0	Appertunance(s)	498.28	1.65	0.77	0.69	58.65
145.0		164.23	1.77	1.22	0.88	26.93
150.0	Appertunance(s)	2482.18	1.89	1.98	1.14	575.97
	Totals:	16,444.11				2,389.96

Total Wind : 27,870.1

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

Pole : 302489	Code: ANSI/TIA-222 Rev G		
Location : Enfd - Enfield, CT	Struct Class : II		3/12/2009 4:30:59 PM
Height : 150.0 (ft)	Exposure Category : B		Page: 33
Shape : 12 Sides	Topographic Category : 1		
Base Dia : 37.38 (in)			
Top Dia : 15.00 (in)			
Taper : 0.156700 (in/ft)	Base Elev : 0.000 (ft)		



Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 25 Iterations

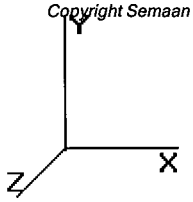
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Shaft Segment Forces (Factored)

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	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
5.00		1.00	0.70	6.129	6.742	158.49	1.200 *	0.000	5.00	15.955	19.15	129.1	0.0	1,086.2
10.00		1.00	0.70	6.129	6.742	155.10	1.200 *	0.000	5.00	15.617	18.74	126.3	0.0	1,070.1
15.00		1.00	0.70	6.129	6.742	151.70	1.200 *	0.000	5.00	15.279	18.34	123.6	0.0	1,054.0
20.00		1.00	0.70	6.129	6.742	148.31	1.200 *	0.000	5.00	14.942	17.93	120.9	0.0	1,037.9
25.00		1.00	0.70	6.129	6.742	144.92	1.200 *	0.000	5.00	14.604	17.52	118.1	0.0	1,021.8
30.00		1.00	0.70	6.134	6.747	141.58	1.200 *	0.000	5.00	14.266	17.12	115.5	0.0	1,005.7
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
35.00		1.00	0.73	6.410	7.051	141.27	1.200 *	0.000	3.50	9.902	11.88	83.8	0.0	1,080.2
35.67	Top - Section 1	1.00	0.73	6.445	7.089	141.18	1.200 *	0.000	0.67	1.868	2.24	15.9	0.0	204.2
40.00		1.00	0.76	6.659	7.325	143.27	1.200 *	0.000	4.33	11.991	14.39	105.4	0.0	760.7
45.00		1.00	0.78	6.887	7.576	142.11	1.200 *	0.000	5.00	13.521	16.23	122.9	0.0	865.3
50.00		1.00	0.81	7.098	7.807	140.61	1.200 *	0.000	5.00	13.183	15.82	123.5	0.0	851.9
55.00		1.00	0.83	7.294	8.023	138.83	1.200 *	0.000	5.00	12.845	15.41	123.7	0.0	838.5
56.00	Appertunance(s)	1.00	0.83	7.331	8.064	138.45	1.200 *	0.000	1.00	2.529	3.03	24.5	0.0	166.1
60.00		1.00	0.85	7.477	8.225	136.82	1.200 *	0.000	4.00	9.979	11.97	98.5	0.0	659.0
65.00		1.00	0.87	7.650	8.415	134.61	1.200 *	0.000	5.00	12.169	14.60	122.9	0.0	811.6
70.00		1.00	0.89	7.814	8.595	132.21	1.200 *	0.000	5.00	11.831	14.20	122.0	0.0	798.2
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
73.50	Top - Section 2	1.00	0.90	7.924	8.716	130.43	1.200 *	0.000	3.50	8.232	9.88	86.1	0.0	809.7
75.00		1.00	0.91	7.969	8.766	132.12	1.200 *	0.000	1.50	3.476	4.17	36.6	0.0	209.5
80.00		1.00	0.92	8.118	8.930	129.43	1.200 *	0.000	5.00	11.371	13.65	121.8	0.0	691.6
85.00		1.00	0.94	8.260	9.086	126.62	1.200 *	0.000	5.00	11.033	13.24	120.3	0.0	680.9
90.00		1.00	0.95	8.396	9.235	123.69	1.200 *	0.000	5.00	10.695	12.83	118.5	0.0	670.2
95.00		1.00	0.97	8.526	9.379	120.64	1.200 *	0.000	5.00	10.357	12.43	116.6	0.0	659.4
100.0		1.00	0.98	8.652	9.517	117.50	1.200 *	0.000	5.00	10.019	12.02	114.4	0.0	648.7
105.0		1.00	1.00	8.774	9.651	114.26	1.200 *	0.000	5.00	9.681	11.62	112.1	0.0	638.0
110.0		1.00	1.01	8.891	9.780	110.94	1.200 *	0.000	5.00	9.343	11.21	109.7	0.0	627.2
110.0	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
115.0		1.00	1.02	9.005	9.905	107.53	1.200 *	0.000	5.00	9.005	10.81	107.0	0.0	546.5
120.0		1.00	1.04	9.115	10.02	104.05	1.200 *	0.000	5.00	8.667	10.40	104.3	0.0	538.5
122.0	Reinf. Top	1.00	1.04	9.158	10.07	102.64	1.200 *	0.000	2.00	3.372	4.05	40.8	0.0	213.1
125.0		1.00	1.05	9.222	10.14	100.49	1.200 *	0.000	3.00	4.957	5.95	60.3	0.0	116.9
130.0		1.00	1.06	9.326	10.25	96.878	1.200 *	0.000	5.00	7.991	9.59	98.4	0.0	188.4
132.0	Appertunance(s)	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
135.0		1.00	1.07	9.427	10.36	93.194	1.200 *	0.000	3.00	4.551	5.46	56.6	0.0	107.2
140.0	Appertunance(s)	1.00	1.08	9.525	10.47	89.449	1.200 *	0.000	5.00	7.315	8.78	92.0	0.0	172.3
145.0		1.00	1.09	9.621	10.58	85.647	1.200 *	0.000	5.00	6.977	8.37	88.6	0.0	164.2
150.0	Appertunance(s)	1.00	1.11	9.715	10.68	81.790	1.200 *	0.000	5.00	6.639	7.97	85.1	0.0	156.2
* = Cf Adjusted By Linear Load Ra Effect							Totals:		450.00			59,158.9	0.0	65,902.2



Load Case: 1.0D + 1.0W

60.00 mph Serviceability

25 Iterations

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

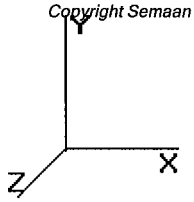
Wind Importance Factor : 1.00

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	20.91	0.000	0.000	168.63	0.00	0.00	188.00
122.0	RFS APXV18-206517S-	3	9.158	10.074	0.58	0.80	9.04	0.000	0.000	91.07	0.00	0.00	79.20
132.0	Round Low Profile Pl	1	9.366	10.303	1.00	1.00	21.70	0.000	0.000	223.58	0.00	0.00	1,500.00
132.0	Antel LPA-185080/12C	6	9.366	10.303	0.70	0.80	19.30	0.000	0.000	198.84	0.00	0.00	243.00
132.0	Antel LPA-80080/6CF	6	9.366	10.303	0.59	0.80	32.32	0.000	0.000	333.03	0.00	0.00	126.00
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	RFS APX16DWV-	3	9.525	10.478	0.54	0.80	10.77	0.000	0.000	112.88	0.00	0.00	118.80
140.0	EMS RR90-17-02DP	3	9.525	10.478	0.54	0.80	7.01	0.000	0.000	73.46	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
150.0	TTA	6	9.788	10.767	0.40	0.80	3.36	0.000	4.000	36.18	0.00	144.71	60.00
150.0	Powerwave LGP	6	9.788	10.767	0.40	0.80	0.82	0.000	4.000	8.79	0.00	35.14	30.00
150.0	Allgon 7770.00	6	9.788	10.767	0.60	0.80	21.17	0.000	4.000	227.92	0.00	911.66	210.00
150.0	Decibel DB809KE-SY	1	9.818	10.800	0.80	0.80	2.72	0.000	5.667	29.38	0.00	166.46	26.00
150.0	Round Platform w/ Ha	1	9.715	10.686	1.00	1.00	27.20	0.000	0.000	290.67	0.00	0.00	2.000.00
										2,084.73			6,201.00

Pole : 302489
Location : Enfd - Enfield, CT
Height : 150.0 (ft)
Shape : 12 Sides
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
Taper : 0.156700 (in/ft)

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



Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 25 Iterations

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

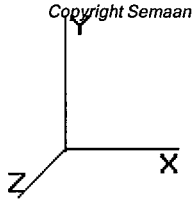
Wind Importance Factor : 1.00

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)
5.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	6.129	0.345	0.000	13.35	32.80
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.345	0.000	0.00	24.60
5.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	6.129	0.345	0.000	13.35	49.19
5.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	2.08	2.50	6.129	0.345	0.000	16.85	0.00
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.345	0.000	0.00	24.60
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.345	0.000	0.00	24.60
5.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	6.129	0.345	0.000	0.94	0.14
10.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	6.129	0.352	0.000	13.35	32.80
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.352	0.000	0.00	24.60
10.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	6.129	0.352	0.000	13.35	49.19
10.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	2.08	2.50	6.129	0.352	0.000	16.85	0.00
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.352	0.000	0.00	24.60
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.352	0.000	0.00	24.60
10.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	6.129	0.352	0.000	0.94	0.14
15.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	6.129	0.360	0.000	13.35	32.80
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.360	0.000	0.00	24.60
15.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	6.129	0.360	0.000	13.35	49.19
15.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	2.08	2.50	6.129	0.360	0.000	16.85	0.00
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.360	0.000	0.00	24.60
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.360	0.000	0.00	24.60
15.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	6.129	0.360	0.000	0.94	0.14
20.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	6.129	0.368	0.000	13.35	32.80
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.368	0.000	0.00	24.60
20.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	6.129	0.368	0.000	13.35	49.19
20.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	2.08	2.50	6.129	0.368	0.000	16.85	0.00
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.368	0.000	0.00	24.60
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.368	0.000	0.00	24.60
20.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	6.129	0.368	0.000	0.94	0.14
25.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	6.129	0.377	0.000	13.35	32.80
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.377	0.000	0.00	24.60
25.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	6.129	0.377	0.000	13.35	49.19
25.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	2.08	2.50	6.129	0.377	0.000	16.85	0.00
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.377	0.000	0.00	24.60
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.377	0.000	0.00	24.60
25.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	6.129	0.377	0.000	0.94	0.14
30.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	6.134	0.386	0.000	13.36	32.80
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.134	0.386	0.000	0.00	24.60
30.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	6.134	0.386	0.000	13.36	49.19
30.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	2.08	2.50	6.134	0.386	0.000	16.87	0.00
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.134	0.386	0.000	0.00	24.60
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.134	0.386	0.000	0.00	24.60
30.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	6.134	0.386	0.000	0.94	0.14
31.50	(8) 1 5/8" Coax	Yes	1.50	1.200	3.96	0.50	0.59	6.220	0.392	0.000	4.07	9.84
31.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	6.220	0.392	0.000	0.00	7.38
31.50	(12) 1 5/8" Coax	Yes	1.50	1.200	3.96	0.50	0.59	6.220	0.392	0.000	4.07	14.76
31.50	(4) #20 Dywidag bars	Yes	1.50	1.200	5.00	0.63	0.75	6.220	0.392	0.000	5.13	0.00
31.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	6.220	0.392	0.000	0.00	7.38
31.50	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	6.220	0.392	0.000	0.00	7.38
31.50	(1) RG6	Yes	1.50	1.200	0.28	0.04	0.04	6.220	0.392	0.000	0.29	0.04
35.00	(8) 1 5/8" Coax	Yes	3.50	1.200	3.96	1.15	1.39	6.410	0.396	0.000	9.77	22.95
35.00	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	6.410	0.396	0.000	0.00	17.22

Pole : 302489
Location : Enfd - Enfield, CT
Height : 150.0 (ft)
Shape : 12 Sides
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
Taper : 0.156700 (in/ft)

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



Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 25 Iterations

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

Wind Importance Factor : 1.00

35.00	(12) 1 5/8" Coax	Yes	3.50	1.200	3.96	1.15	1.39	6.410	0.396	0.000	9.77	34.43
35.00	(4) #20 Dywidag bars	Yes	3.50	1.200	5.00	1.46	1.75	6.410	0.396	0.000	12.34	0.00
35.00	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	6.410	0.396	0.000	0.00	17.22
35.00	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	6.410	0.396	0.000	0.00	17.22
35.00	(1) RG6	Yes	3.50	1.200	0.28	0.08	0.10	6.410	0.396	0.000	0.69	0.10
35.67	(8) 1 5/8" Coax	Yes	0.67	1.200	3.96	0.22	0.26	6.445	0.400	0.000	1.87	4.37
35.67	(6) 1 5/8" Coax	Yes	0.67	0.000	0.00	0.00	0.00	6.445	0.400	0.000	0.00	3.28
35.67	(12) 1 5/8" Coax	Yes	0.67	1.200	3.96	0.22	0.26	6.445	0.400	0.000	1.87	6.56
35.67	(4) #20 Dywidag bars	Yes	0.67	1.200	5.00	0.28	0.33	6.445	0.400	0.000	2.36	0.00
35.67	(6) 1 5/8" Coax	Yes	0.67	0.000	0.00	0.00	0.00	6.445	0.400	0.000	0.00	3.28
35.67	(6) 1 5/8" Coax	Yes	0.67	0.000	0.00	0.00	0.00	6.445	0.400	0.000	0.00	3.28
35.67	(1) RG6	Yes	0.67	1.200	0.28	0.02	0.02	6.445	0.400	0.000	0.13	0.02
40.00	(8) 1 5/8" Coax	Yes	4.33	1.200	3.96	1.43	1.72	6.659	0.397	0.000	12.57	28.42
40.00	(6) 1 5/8" Coax	Yes	4.33	0.000	0.00	0.00	0.00	6.659	0.397	0.000	0.00	21.32
40.00	(12) 1 5/8" Coax	Yes	4.33	1.200	3.96	1.43	1.72	6.659	0.397	0.000	12.57	42.63
40.00	(4) #20 Dywidag bars	Yes	4.33	1.200	5.00	1.81	2.17	6.659	0.397	0.000	15.87	0.00
40.00	(6) 1 5/8" Coax	Yes	4.33	0.000	0.00	0.00	0.00	6.659	0.397	0.000	0.00	21.32
40.00	(6) 1 5/8" Coax	Yes	4.33	0.000	0.00	0.00	0.00	6.659	0.397	0.000	0.00	21.32
40.00	(1) RG6	Yes	4.33	1.200	0.28	0.10	0.12	6.659	0.397	0.000	0.89	0.13
45.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	6.887	0.407	0.000	15.00	32.80
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.887	0.407	0.000	0.00	24.60
45.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	6.887	0.407	0.000	15.00	49.19
45.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	2.08	2.50	6.887	0.407	0.000	18.94	0.00
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.887	0.407	0.000	0.00	24.60
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.887	0.407	0.000	0.00	24.60
45.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	6.887	0.407	0.000	1.06	0.14
50.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	7.098	0.417	0.000	15.46	32.80
50.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.098	0.417	0.000	0.00	24.60
50.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	7.098	0.417	0.000	15.46	49.19
50.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	2.08	2.50	7.098	0.417	0.000	19.52	0.00
50.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.098	0.417	0.000	0.00	24.60
50.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.098	0.417	0.000	0.00	24.60
50.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	7.098	0.417	0.000	1.09	0.14
55.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	7.294	0.428	0.000	15.89	32.80
55.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.294	0.428	0.000	0.00	24.60
55.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	7.294	0.428	0.000	15.89	49.19
55.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	2.08	2.50	7.294	0.428	0.000	20.06	0.00
55.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.294	0.428	0.000	0.00	24.60
55.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.294	0.428	0.000	0.00	24.60
55.00	(1) RG6	Yes	5.00	1.200	0.28	0.12	0.14	7.294	0.428	0.000	1.12	0.14
56.00	(8) 1 5/8" Coax	Yes	1.00	1.200	3.96	0.33	0.40	7.331	0.435	0.000	3.19	6.56
56.00	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.331	0.435	0.000	0.00	4.92
56.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.96	0.33	0.40	7.331	0.435	0.000	3.19	9.84
56.00	(4) #20 Dywidag bars	Yes	1.00	1.200	5.00	0.42	0.50	7.331	0.435	0.000	4.03	0.00
56.00	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.331	0.435	0.000	0.00	4.92
56.00	(6) 1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.331	0.435	0.000	0.00	4.92
56.00	(1) RG6	Yes	1.00	1.200	0.28	0.02	0.03	7.331	0.435	0.000	0.23	0.03
60.00	(8) 1 5/8" Coax	Yes	4.00	1.200	3.96	1.32	1.58	7.477	0.432	0.000	13.03	26.24
60.00	(6) 1 5/8" Coax	Yes	4.00	0.000	0.00	0.00	0.00	7.477	0.432	0.000	0.00	19.68
60.00	(12) 1 5/8" Coax	Yes	4.00	1.200	3.96	1.32	1.58	7.477	0.432	0.000	13.03	39.36
60.00	(4) #20 Dywidag bars	Yes	4.00	1.200	5.00	1.67	2.00	7.477	0.432	0.000	16.45	0.00
60.00	(6) 1 5/8" Coax	Yes	4.00	0.000	0.00	0.00	0.00	7.477	0.432	0.000	0.00	19.68
60.00	(6) 1 5/8" Coax	Yes	4.00	0.000	0.00	0.00	0.00	7.477	0.432	0.000	0.00	19.68
65.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	7.650	0.442	0.000	16.66	32.80
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.650	0.442	0.000	0.00	24.60
65.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	7.650	0.442	0.000	16.66	49.19
65.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	2.08	2.50	7.650	0.442	0.000	21.04	0.00

Pole :	302489			Code: ANSI/TIA-222 Rev G								
Location :	Enfd - Enfield, CT			Struct Class : II							3/12/2009 4:31:02 PM	
Height :	150.0 (ft)			Exposure Category : B							Page: 37	
Shape :	12 Sides			Topographic Category : 1								
Base Dia :	37.38 (in)											
Top Dia :	15.00 (in)											
Taper :	0.156700 (in/ft)			Base Elev : 0.000 (ft)								

Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 25 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.650	0.442	0.000	0.00	24.60
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.650	0.442	0.000	0.00	24.60
70.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	7.814	0.455	0.000	17.02	32.80
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.814	0.455	0.000	0.00	24.60
70.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	7.814	0.455	0.000	17.02	49.19
70.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	2.08	2.50	7.814	0.455	0.000	21.49	0.00
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.814	0.455	0.000	0.00	24.60
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.814	0.455	0.000	0.00	24.60
70.00	(8) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	7.814	0.462	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	0.462	0.000	0.00	0.00
70.00	(12) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	7.814	0.462	0.000	0.00	0.00
70.00	(4) #20 Dywidag bars	Yes	0.00	1.200	5.00	0.00	0.00	7.814	0.462	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	0.462	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	0.462	0.000	0.00	0.00
73.50	(8) 1 5/8" Coax	Yes	3.50	1.200	3.96	1.15	1.39	7.924	0.466	0.000	12.08	22.96
73.50	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	7.924	0.466	0.000	0.00	17.22
73.50	(12) 1 5/8" Coax	Yes	3.50	1.200	3.96	1.15	1.39	7.924	0.466	0.000	12.08	34.44
73.50	(4) #20 Dywidag bars	Yes	3.50	1.200	5.00	1.46	1.75	7.924	0.466	0.000	15.25	0.00
73.50	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	7.924	0.466	0.000	0.00	17.22
73.50	(6) 1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	7.924	0.466	0.000	0.00	17.22
75.00	(8) 1 5/8" Coax	Yes	1.50	1.200	3.96	0.49	0.59	7.969	0.464	0.000	5.21	9.84
75.00	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	7.969	0.464	0.000	0.00	7.38
75.00	(12) 1 5/8" Coax	Yes	1.50	1.200	3.96	0.49	0.59	7.969	0.464	0.000	5.21	14.75
75.00	(4) #20 Dywidag bars	Yes	1.50	1.200	5.00	0.62	0.75	7.969	0.464	0.000	6.57	0.00
75.00	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	7.969	0.464	0.000	0.00	7.38
75.00	(6) 1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	7.969	0.464	0.000	0.00	7.38
80.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	8.118	0.473	0.000	17.68	32.80
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.118	0.473	0.000	0.00	24.60
80.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	8.118	0.473	0.000	17.68	49.19
80.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	2.08	2.50	8.118	0.473	0.000	22.32	0.00
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.118	0.473	0.000	0.00	24.60
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.118	0.473	0.000	0.00	24.60
85.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	8.260	0.488	0.000	17.99	32.80
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.260	0.488	0.000	0.00	24.60
85.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	8.260	0.488	0.000	17.99	49.19
85.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	2.08	2.50	8.260	0.488	0.000	22.71	0.00
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.260	0.488	0.000	0.00	24.60
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.260	0.488	0.000	0.00	24.60
90.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	8.396	0.503	0.000	18.29	32.80
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.396	0.503	0.000	0.00	24.60
90.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	8.396	0.503	0.000	18.29	49.19
90.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	2.08	2.50	8.396	0.503	0.000	23.09	0.00
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.396	0.503	0.000	0.00	24.60
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.396	0.503	0.000	0.00	24.60
95.00	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	8.526	0.520	0.000	18.57	32.80
95.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.526	0.520	0.000	0.00	24.60
95.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	8.526	0.520	0.000	18.57	49.19
95.00	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	2.08	2.50	8.526	0.520	0.000	23.45	0.00
95.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.526	0.520	0.000	0.00	24.60
95.00	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.526	0.520	0.000	0.00	24.60
100.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	8.652	0.537	0.000	18.84	32.80
100.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.652	0.537	0.000	0.00	24.60
100.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	8.652	0.537	0.000	18.84	49.19
100.0	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	2.08	2.50	8.652	0.537	0.000	23.79	0.00
100.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.652	0.537	0.000	0.00	24.60
100.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.652	0.537	0.000	0.00	24.60
105.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	8.774	0.556	0.000	19.11	32.80

Pole :	302489
Location :	Enfd - Enfield, CT
Height :	150.0 (ft)
Shape :	12 Sides
Base Dia :	37.38 (in)
Top Dia :	15.00 (in)
Taper :	0.156700 (in/ft)

Code: ANSI/TIA-222 Rev G

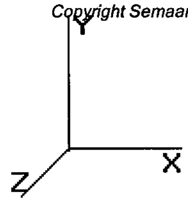
Struct Class : II

Exposure Category : B

Topographic Category : 1

Base Elev : 0.000 (ft)

3/12/2009 4:31:02 PM



Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 25 Iterations

Gust Response Factor : 1.10

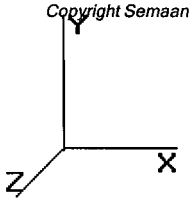
Dead Load Factor : 1.00

Wind Load Factor : 1.00

Wind Importance Factor : 1.00

105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.774	0.556	0.000	0.00	24.60
105.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	8.774	0.556	0.000	19.11	49.19
105.0	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	2.08	2.50	8.774	0.556	0.000	24.13	0.00
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.774	0.556	0.000	0.00	24.60
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.774	0.556	0.000	0.00	24.60
110.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	8.891	0.576	0.000	19.36	32.80
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.891	0.576	0.000	0.00	24.60
110.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	8.891	0.576	0.000	19.36	49.19
110.0	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	2.08	2.50	8.891	0.576	0.000	24.45	0.00
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.891	0.576	0.000	0.00	24.60
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.891	0.576	0.000	0.00	24.60
110.0	(8) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	8.891	0.587	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	0.587	0.000	0.00	0.00
110.0	(12) 1 5/8" Coax	Yes	0.00	1.200	3.96	0.00	0.00	8.891	0.587	0.000	0.00	0.00
110.0	(4) #20 Dywidag bars	Yes	0.00	1.200	5.00	0.00	0.00	8.891	0.587	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	0.587	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	0.587	0.000	0.00	0.00
115.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	9.005	0.598	0.000	19.61	32.79
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.005	0.598	0.000	0.00	24.60
115.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	9.005	0.598	0.000	19.61	49.19
115.0	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	2.08	2.50	9.005	0.598	0.000	24.76	0.00
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.005	0.598	0.000	0.00	24.60
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.005	0.598	0.000	0.00	24.60
120.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	9.115	0.621	0.000	19.85	32.80
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.115	0.621	0.000	0.00	24.60
120.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	9.115	0.621	0.000	19.85	49.19
120.0	(4) #20 Dywidag bars	Yes	5.00	1.200	5.00	2.08	2.50	9.115	0.621	0.000	25.07	0.00
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.115	0.621	0.000	0.00	24.60
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.115	0.621	0.000	0.00	24.60
122.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.158	0.639	0.000	7.98	13.12
122.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.158	0.639	0.000	0.00	9.84
122.0	(12) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.158	0.639	0.000	7.98	19.68
122.0	(4) #20 Dywidag bars	Yes	2.00	1.200	5.00	0.83	1.00	9.158	0.639	0.000	10.07	0.00
122.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.158	0.639	0.000	0.00	9.84
122.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.158	0.639	0.000	0.00	9.84
125.0	(8) 1 5/8" Coax	Yes	3.00	1.200	3.96	0.99	1.19	9.222	0.652	0.000	12.05	19.68
125.0	(6) 1 5/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	9.222	0.652	0.000	0.00	14.76
125.0	(12) 1 5/8" Coax	Yes	3.00	1.200	3.96	0.99	1.19	9.222	0.652	0.000	12.05	29.52
125.0	(4) #20 Dywidag bars	Yes	3.00	1.200	5.00	1.25	1.50	9.222	0.652	0.000	15.22	0.00
125.0	(6) 1 5/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	9.222	0.652	0.000	0.00	14.76
130.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	9.326	0.516	0.000	20.31	32.80
130.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.326	0.516	0.000	0.00	24.60
130.0	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	9.326	0.516	0.000	10.16	24.60
130.0	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	9.326	0.516	0.000	20.31	49.19
132.0	(8) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.366	0.532	0.000	8.16	13.12
132.0	(6) 1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.366	0.532	0.000	0.00	9.84
132.0	(6) 1 5/8" Coax	Yes	2.00	1.200	1.98	0.33	0.40	9.366	0.532	0.000	4.08	9.84
132.0	(12) 1 5/8" Coax	Yes	2.00	1.200	3.96	0.66	0.79	9.366	0.532	0.000	8.16	19.68
135.0	(8) 1 5/8" Coax	Yes	3.00	1.200	3.96	0.99	1.19	9.427	0.326	0.000	12.32	19.68
135.0	(6) 1 5/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	9.427	0.326	0.000	0.00	14.76
135.0	(6) 1 5/8" Coax	Yes	3.00	1.200	1.98	0.50	0.59	9.427	0.326	0.000	6.16	14.76
140.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	9.525	0.338	0.000	20.75	32.80
140.0	(6) 1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.525	0.338	0.000	0.00	24.60
140.0	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	9.525	0.338	0.000	10.37	24.60
145.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	9.621	0.236	0.000	20.95	32.80
150.0	(8) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	9.715	0.249	0.000	21.16	32.80

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



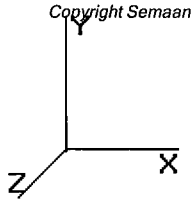
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 25 Iterations

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

Wind Importance Factor : 1.00

Totals:	1,515.81	4,261.82

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



Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 25 Iterations

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

Wind Importance Factor : 1.00

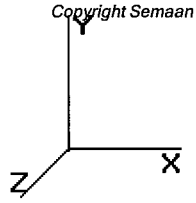
Applied Segment Forces Summary

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
5.00	173.57	1,262.61	0.00	0.00
10.00	170.84	1,246.52	0.00	0.00
15.00	168.10	1,230.42	0.00	0.00
20.00	165.37	1,214.32	0.00	0.00
25.00	162.63	1,198.23	0.00	0.00
30.00	160.03	1,182.13	0.00	0.00
31.50	48.15	351.58	0.00	0.00
35.00	116.35	1,203.69	0.00	0.00
35.67	22.14	227.77	0.00	0.00
40.00	147.30	913.59	0.00	0.00
45.00	172.92	1,041.71	0.00	0.00
50.00	175.04	1,028.29	0.00	0.00
55.00	176.62	1,014.88	0.00	0.00
56.00	203.74	389.37	0.00	0.00
60.00	141.00	799.99	0.00	0.00
65.00	177.25	987.91	0.00	0.00
70.00	177.56	974.50	0.00	0.00
70.00	0.01	0.06	0.00	0.00
73.50	125.51	933.14	0.00	0.00
75.00	53.56	262.40	0.00	0.00
80.00	179.53	867.89	0.00	0.00
85.00	178.98	857.16	0.00	0.00
90.00	178.18	846.43	0.00	0.00
95.00	177.15	835.70	0.00	0.00
100.0	175.91	824.97	0.00	0.00
105.0	174.47	814.24	0.00	0.00
110.0	172.83	803.51	0.00	0.00
110.0	0.01	0.05	0.00	0.00
115.0	171.01	722.75	0.00	0.00
120.0	169.05	714.75	0.00	0.00
122.0	157.87	362.84	0.00	0.00
125.0	99.66	207.90	0.00	0.00
130.0	149.15	340.05	0.00	0.00
132.0	814.20	2,002.77	0.00	0.00
135.0	75.11	168.72	0.00	0.00
140.0	599.76	2,013.56	0.00	0.00
145.0	109.57	217.52	0.00	0.00
150.0	699.22	2,535.47	0.00	1,257.98
Totals:	7,019.37	32,599.41	0.00	1,257.98

Pole : 302489
Location : Enfd - Enfield, CT
Height : 150.0 (ft)
Shape : 12 Sides
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
Taper : 0.156700 (in/ft)

Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure Category : B
Topographic Category : 1

Base Elev : 0.000 (ft)



Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 25 Iterations

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

Wind Importance Factor : 1.00

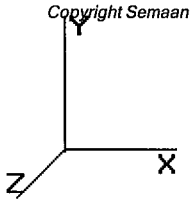
Calculated Forces

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	-32.59	-7.04	0.00	-676.67	0.00	676.67	2,613.99	1,306.99	3,984.35	1,967.72	0.00	0.00	0.222
5.00	-31.32	-6.91	0.00	-641.47	0.00	641.47	2,558.64	1,279.32	3,816.59	1,884.87	0.04	-0.07	0.217
10.00	-30.07	-6.77	0.00	-606.94	0.00	606.94	2,503.30	1,251.65	3,652.43	1,803.80	0.16	-0.15	0.213
15.00	-28.83	-6.64	0.00	-573.07	0.00	573.07	2,447.95	1,223.98	3,491.89	1,724.51	0.35	-0.22	0.207
20.00	-27.61	-6.50	0.00	-539.89	0.00	539.89	2,392.60	1,196.30	3,334.95	1,647.01	0.63	-0.30	0.202
25.00	-26.40	-6.37	0.00	-507.38	0.00	507.38	2,337.26	1,168.63	3,181.62	1,571.28	0.98	-0.37	0.197
30.00	-25.22	-6.22	0.00	-475.54	0.00	475.54	2,281.91	1,140.96	3,031.90	1,497.34	1.41	-0.44	0.191
31.50	-24.86	-6.18	0.00	-466.21	0.00	466.21	2,265.31	1,132.65	2,987.68	1,475.50	1.55	-0.47	0.189
35.00	-23.66	-6.07	0.00	-444.57	0.00	444.57	2,226.57	1,113.28	2,885.79	1,425.19	1.91	-0.52	0.182
35.67	-23.42	-6.06	0.00	-440.52	0.00	440.52	1,889.79	944.90	2,499.95	1,234.63	1.98	-0.53	0.197
40.00	-22.50	-5.93	0.00	-414.26	0.00	414.26	1,849.82	924.91	2,394.82	1,182.71	2.49	-0.59	0.191
45.00	-21.46	-5.77	0.00	-384.61	0.00	384.61	1,803.70	901.85	2,276.32	1,124.19	3.15	-0.66	0.183
50.00	-20.42	-5.61	0.00	-355.73	0.00	355.73	1,757.58	878.79	2,160.82	1,067.15	3.88	-0.74	0.176
55.00	-19.41	-5.44	0.00	-327.67	0.00	327.67	1,711.46	855.73	2,048.33	1,011.59	4.70	-0.81	0.168
56.00	-19.02	-5.24	0.00	-322.23	0.00	322.23	1,702.23	851.12	2,026.20	1,000.66	4.87	-0.82	0.166
60.00	-18.21	-5.11	0.00	-301.28	0.00	301.28	1,665.34	832.67	1,938.85	957.53	5.58	-0.88	0.160
65.00	-17.22	-4.93	0.00	-275.74	0.00	275.74	1,619.22	809.61	1,832.38	904.94	6.54	-0.95	0.152
70.00	-16.25	-4.75	0.00	-251.07	0.00	251.07	1,573.10	786.55	1,728.91	853.84	7.57	-1.02	0.143
70.00	-16.25	-4.76	0.00	-251.07	0.00	251.07	1,573.09	786.55	1,728.90	853.84	7.57	-1.02	0.143
73.50	-15.31	-4.62	0.00	-234.42	0.00	234.42	1,259.14	629.57	1,387.79	685.38	8.33	-1.06	0.148
75.00	-15.05	-4.58	0.00	-227.49	0.00	227.49	1,248.07	624.03	1,363.39	673.33	8.67	-1.08	0.145
80.00	-14.18	-4.39	0.00	-204.62	0.00	204.62	1,211.17	605.59	1,283.60	633.92	9.84	-1.15	0.135
85.00	-13.32	-4.21	0.00	-182.65	0.00	182.65	1,174.27	587.14	1,206.22	595.71	11.08	-1.21	0.125
90.00	-12.48	-4.03	0.00	-161.58	0.00	161.58	1,137.38	568.69	1,131.25	558.68	12.38	-1.27	0.115
95.00	-11.64	-3.84	0.00	-141.44	0.00	141.44	1,100.48	550.24	1,058.68	522.84	13.74	-1.33	0.105
100.00	-10.82	-3.66	0.00	-122.22	0.00	122.22	1,063.58	531.79	988.52	488.19	15.16	-1.38	0.094
105.00	-10.01	-3.47	0.00	-103.94	0.00	103.94	1,026.69	513.34	920.76	454.73	16.63	-1.43	0.083
110.00	-9.21	-3.28	0.00	-86.58	0.00	86.58	989.79	494.89	855.40	422.45	18.15	-1.47	0.072
110.00	-9.20	-3.28	0.00	-86.58	0.00	86.58	989.79	494.89	855.40	422.45	18.15	-1.47	0.072
110.00	-9.20	-3.28	0.00	-86.58	0.00	86.58	989.79	494.89	855.40	422.45	18.15	-1.47	0.079
115.00	-8.48	-3.10	0.00	-70.15	0.00	70.15	716.88	358.44	599.87	296.25	19.71	-1.51	0.067
120.00	-7.77	-2.92	0.00	-54.65	0.00	54.65	689.20	344.60	554.25	273.72	21.31	-1.55	0.054
122.00	-7.41	-2.75	0.00	-48.82	0.00	48.82	689.20	344.60	554.25	273.72	21.96	-1.56	0.049
122.00	-7.41	-2.75	0.00	-48.82	0.00	48.82	689.20	344.60	554.25	273.72	21.96	-1.56	0.195
125.00	-7.21	-2.65	0.00	-40.57	0.00	40.57	661.53	330.77	510.43	252.08	22.95	-1.58	0.172
130.00	-6.87	-2.50	0.00	-27.30	0.00	27.30	633.86	316.93	468.41	231.33	24.65	-1.67	0.129
132.00	-4.89	-1.63	0.00	-22.30	0.00	22.30	622.79	311.39	452.11	223.28	25.36	-1.70	0.108
135.00	-4.72	-1.56	0.00	-17.41	0.00	17.41	606.19	303.09	428.21	211.47	26.44	-1.74	0.090
140.00	-2.73	-0.90	0.00	-9.63	0.00	9.63	578.51	289.26	389.80	192.51	28.30	-1.79	0.055
145.00	-2.51	-0.78	0.00	-5.16	0.00	5.16	550.84	275.42	353.20	174.43	30.19	-1.82	0.034
150.00	0.00	-0.70	0.00	-1.26	0.00	1.26	523.17	261.58	318.40	157.25	32.11	-1.84	0.008

Pole : 302489
Location : Enfd - Enfield, CT
Height : 150.0 (ft)
Shape : 12 Sides
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
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)



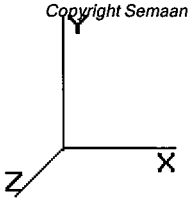
Analysis Summary

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)	Max Usage Interaction Ratio
1.2D + 1.6W	27.97	0.00	37.41	0.00	0.00	2704.85	0.00	0.86
0.9D + 1.6W	27.95	0.00	30.08	0.00	0.00	2671.22	0.00	0.85
1.2D + 1.0Di + 1.0Wi	7.96	0.00	97.22	0.00	0.00	895.86	0.00	0.31
1.0D + 1.0W	7.04	0.00	32.59	0.00	0.00	676.67	0.00	0.22

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	122.	(4) SOL-#20 All Thre	338.4	10.2	16.8	68.4	12.0	6	16	0.0	12.0	0	0	281.8	330.5	0.85

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



Base Summary

Reactions

Original Design			Analysis			
Moment (kip-ft)	Axial (kip)	Shear (kip)	Moment (kip-ft)	Axial (kip)	Shear (kip)	Moment Design %
1,197.00	14.90	13.10	2,704.85	97.22	27.97	225.97

Base Plate

Yield (ksi)	Thick (in)	Width (in)	Style	Poly Sides	Clip Len (in)	Effective Len (in)	Mu (kip-in)	Phi Mn (kip-in)	Ratio
60.0	2.500	44.000	Square	0	0.00	15.024	1008.88	1267.64	0.80

Anchor Bolts

								Start	Compression			Tension		
Bolt Circle	Num Bolts	Bolt Type	Bolt Dia (in)	Yield (ksi)	Ultimate (ksi)	Arrange	Cluster Dist (in)	Angle (deg)	Force (kip)	Allow (kip)	Ratio	Force (kip)	Allow (kip)	Ratio
44.00	08	2.25" 18J	2.25	75.00	100.00	Clustered	6.00	45.0	215.31	260.00	0.83	191.00	260.00	0.73

Additional Bolts

							Start	Compression			Tension		
			Area (sqin)	Capacity (kip)	Arrange	Cluster Dist (in)	Angle (deg)	Force (kip)	Allow (kip)	Ratio	Force (kip)	Allow (kip)	Ratio
45.720	4.00	#20	4.91	235.62	Radial		90.00	318.915	392.700	0.812	318.915	392.700	0.812

Code Rev.	G	
Moment	349.8 k-ft	
Axial	9.7 k	

Date	3/11/2009
Engineer	ESS
Site #	302489
Carrier	T-Mobile

Required Flange Thickness:
0.53 in OK

Base/Flange Plate	Plate Type	*Flange @ 110.0 ft*	
	Pole Diameter	21.268	in
	Pole Thickness	0.1875	in
	Plate Diameter	28.5	in
	Plate Thickness	2	in
	Plate Fy	60	ksi
	Weld Length	0.25	in
	ϕ_s Resistance	300.67	k-in
	Applied	21.11	k-in
Stiffeners	#	*0*	

Bolts ⊗	#	*12*	
	Bolt Circle	25.75	in
	(R)adial / (S)quare	R	
	Diameter	1	in
	Hole Diameter	1.0625	in
	Type	A325	
	Fy	92	ksi
	Fu	120	ksi
	ϕ_s Resistance	54.52	k
	Applied	14.46	k
Reinforcement ●	#	*4*	
	DYW. Circle	25	in
	Offset Angle	20	°
	Type	#20	
	Diameter	2.5	in
	Fu	100	ksi
Extra Bolts O	#	*0*	

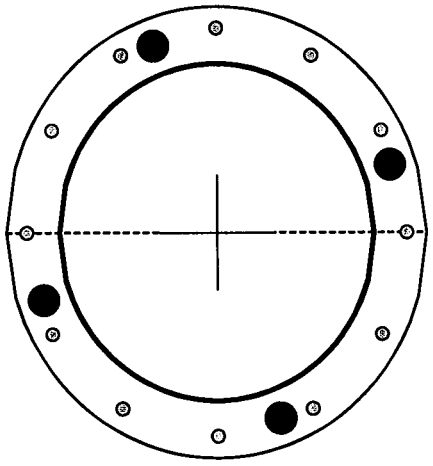


Plate Stress Ratio:
0.07 (Pass)

Bolt Stress Ratio:
0.27 (Pass)

Site Name:	**Enfd - Enfield, CT**
Job #:	**43046421**
Engineer:	**BKL**
Date:	**3/12/2009**

Concrete Strength Design per ACI318-05

Design Loads (Factored)

Compression/Leg:	37.4	k	Concrete Strength (f'_c):	3000	psi
Uplift/Leg:	0.0	k	Pad Tension Steel Depth:	32	in
Total Shear:	28.0	k	ϕ_{Shear}:	0.75	
Moment:	2704.9	k-ft	$\phi_{Flexure\ /\ Tension}$:	0.90	
Tower + Appurtenance Weight:	37.4	k	$\phi_{Compression}$:	0.65	
Diameter of Pier (d):	5.0	ft	β:	0.85	
Length of Pier (l):	5.5	ft	Pad Rebar Size #:	10	
Height of Pier above Ground (h):	0.5		# of Pad Tension Rebar:	34	
Width of Pad (W):	18.0	ft	Pad Lower Steel Area:	43.18	in^2
Length of Pad (L):	18.0	ft	Pad Steel F_y:	60000	psi
Thickness of Pad (t):	3.0	ft	Pier Rebar Size #:	10	
Tower Leg Center to Center:	0.0	ft (0 if not SST)	Pier Steel Area (Single Bar):	1.27	in^2
Number of Tower Legs:	1	(1 if MP or GT)	# of Pier Rebar:	36	
Tower Center from Mat Center:	0.0	ft	Pier Steel F_y:	60000	psi
Depth Below Ground Surface to Water Table:	50.0	ft	Pier Cage Diameter:	48.0	in
Unit Weight of Concrete:	150.0	pcf	Rebar Strain Limit:	0.004	
Unit Weight of Soil Above Water Table:	115.0	pcf	Steel Elastic Modulus:	29000	ksi
Unit Weight of Water:	62.4	pcf	Tie Rebar Size #:	4	
Friction Angle of Uplift:	0.0	Degrees	Tie Steel Area (Single Bar):	0.20	in^2
Ultimate Shear Strength Adhesion of Soil:	0.0	psf	Tie Spacing:	12	in
Ultimate Coefficient of Shear Friction:	0.3		Tie Steel F_y:	60000	psi
Ultimate Compressive Bearing Pressure:	6000.0	psf	$\phi_{TIA-222-G}$:	0.75	
Ultimate Passive Pressure on Pad Face:	0.0	psf	Minimum Dead Load Factor:	1.2	
Allowable Capacity Increase:	1.0		Maximum Dead Load Factor:	0.9	

Axial Weights

Weight of Concrete, Including Surface Pad:	319.5	k
Weight of Surface Concrete Pad:	157.5	k
Weight of Soil (Buoyancy Effect Considered):	175.0	k

Overturning Factor of Safety

Design OTM		2942.6	k-ft
OTM Resistance:	(DLF = 1.2):	5533.8	k-ft
OTM Resistance:	(DLF = 0.9):	4213.5	k-ft
OTM Design / Factored Nominal OTM Resistance:		0.70	Result: OK

Soil Bearing Pressure Usage:

Total Weight (Foundation, Soil, Tower):	624.2	k
Maximum Bearing Pressure:	4046	psf
Pressure Length:	8.6	ft
Net Bearing Pressure:	3126	psf
Factored Nominal Bearing Pressure:	4500	psf
Net Bearing Pressure/Factored Nominal Bearing Pressure:	0.69	Result: OK

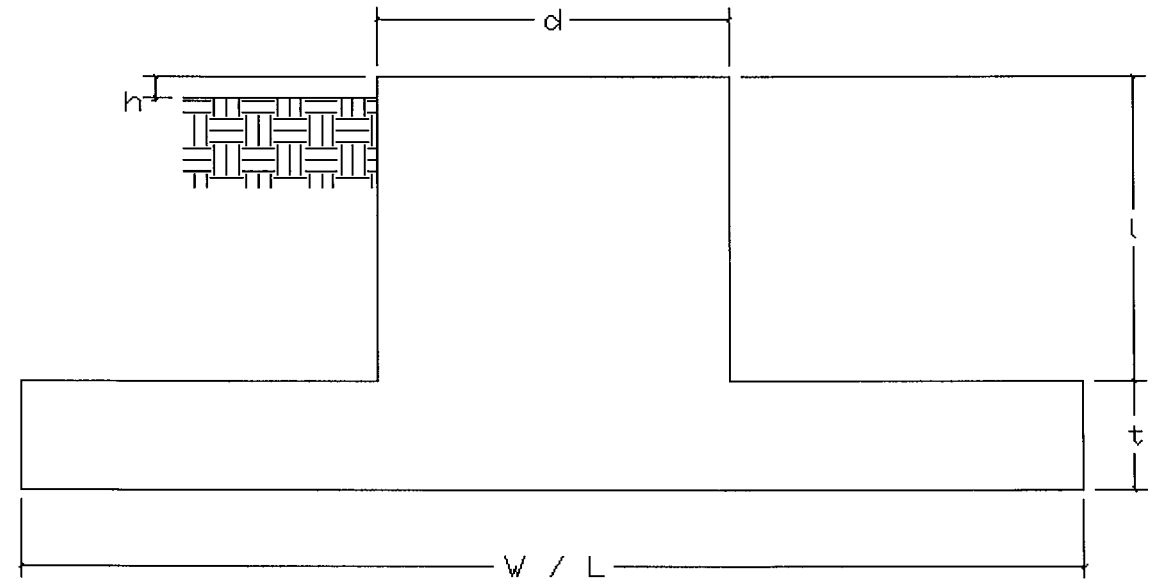
Sliding Factor of Safety

Ultimate Friction Resistance:	234.7	k
Ultimate Passive Pressure Resistance:	0.0	k
Total Factored Nominal Sliding Resistance:	176.0	k
Sliding Design/Factored Nominal Sliding Resistance:	0.16	Result: OK

One Way Shear, Flexual Capacity, and Punching Shear

Critical Shear Length from Edge of Pad:	3.83	ft
Factored Pressure at Critical Section:	4046	psf
Factored One Way Shear (V_u):	279.1	k
One Way Shear Capacity (ϕV_c):	567.9	k - ACI11.3.1.1
$V_u / \phi V_c$:	0.49	Result: OK
Critical Moment Length from Edge of Pad:	6.50	ft
Factored Moment in Pad:	1538.4	k-ft
Pad Moment Capacity (ϕM_n):	5829.5	k-ft - ACI10.3
$M_u / \phi M_n$:	0.26	Result: OK
Pad Flexural Reinforcement Ratio:	0.0062	OK - Minimum Reinforcement Ratio Met - ACI10.5.1
Pad Shrinkage Reinforcement Ratio:	0.0125	OK - Shrinkage Reinforcement Ratio Met - ACI7.12.2.1
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 ($\phi_c V_n$):	1519.7	k - ACI11.12.2.1
$V_u / \phi V_c$:	0.00	Result: OK
Factored Moment in Pier (M_u):	2858.7	k-ft
Pier Moment Capacity (ϕM_n):	4499.2	k-ft
$M_u / \phi M_n$:	0.64	Result: OK
Factored Shear in Pier (V_u):	28.0	k
Pier Shear Capacity (ϕV_n):	275.8	k
$V_u / \phi V_c$:	0.10	Result: OK
Pier Shear Reinforcement Ratio:	0.0021	No Ties Necessary for Shear - ACI11.5.6.1
Factored Tension in Pier (T_u):	0.0	k
Pier Tension Capacity (ϕT_n):	685.8	k
$T_u / \phi T_n$:	0.00	Result: OK
Factored Compression in Pier (P_u):	37.4	k
Pier Compression Capacity (ϕP_n):	5115.0	k - ACI10.3.6.2
$P_u / \phi P_n$:	0.01	Result: OK
Pier Compression Reinforcement Ratio:	0.016	OK - Reinforcement Ratio Met - ACI10.9.1 & 10.8.4

Total Concrete Used:	40.0	yd^3
Pad Rebar Weight:	10579	lb
Peir Rebar Weight:	1322	lb
Tie Weight:	73	lb
Total Weight:	13172	lb



T-Mobile

T-Mobile USA Inc.
35 Griffin Rd South, Bloomfield, CT 06002-1853
Phone: (860) 692-7100
Fax: (860) 692-7159

Technical Memo

To: Transcend
From: Farid Marbouh - Radio Frequency Engineer
cc: Jason Overbey
Subject: Power Density Report for CT11534A
Date: March 30, 2009

1. Introduction:

This report is the result of an Electromagnetic Field Intensities (EMF - Power Densities) study for the T-Mobile antenna installation on a Monopole at 85 Post Office Road, Enfield, CT. This study incorporates the most conservative consideration for determining the practical combined worst case power density levels that would be theoretically encountered from locations surrounding the transmitting location.

2. Discussion:

The following assumptions were used in the calculations:

1) The emissions from T-Mobile transmitters are in the (1935-1944.8), (2140-2145), (2110-2120)MHz frequency Band.
2) The antenna array consists of three sectors, with 2 antennas per sector.
3) The model number for GSM antenna is RR90-17-02DP.
3) The model number for UMTS antenna is APX16DWV-16DWV.
4) GSM antenna center line height is 140 ft.
4) UMTS antenna center line height is 140 ft.
5) The maximum transmit power from any GSM sector is 1653.94 Watts Effective Radiated Power (EiRP) assuming 8 channels per sector.
5) The maximum transmit power from any UMTS sector is 2330.72 Watts Effective Radiated Power (EiRP) assuming 2 channels per sector.
6) All the antennas are simultaneously transmitting and receiving, 24 hours a day.
7) Power levels emitting from the antennas are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
8) The average ground level of the studied area does not change significantly with respect to the transmitting location

Equations given in "FCC OET Bulletin 65, Edition 97-01" were then used with the above information to perform the calculations.

3. Conclusion:

Based on the above worst case assumptions, the power density calculation from the T-Mobile antenna installation on a Monopole at 85 Post Office Road, Enfield, CT, is 0.04869 mW/cm^2. This value represents 4.869% of the Maximum Permissible Exposure (MPE) standard of 1 milliwatt per square centimeter (mW/cm^2) set forth in the FCC/ANSI/IEEE C95.1-1991. Furthermore, the proposed antenna location for T-Mobile will not interfere with existing public safety communications, AM or FM radio broadcasts, TV, Police Communications, HAM Radio communications or any other signals in the area.
The combined Power Density from other carriers is 18.75%. The combined Power Density for the site is 23.619% of the M.P.E. standard.

Connecticut Market

T-Mobile

Worst Case Power Density

Site:	**CT11534A**
Site Address:	**85 Post Office Road**
Town:	**Enfield**
Tower Height:	**152 ft.**
Tower Style:	**Monopole**

GSM Data		UMTS Data	
Base Station TX output	20 W	**Base Station TX output**	40 W
Number of channels	8	**Number of channels**	2
Antenna Model	RR90-17-02DP	**Antenna Model**	APX16DWV-16DWV
Cable Size	1 5/8 in.	**Cable Size**	1 5/8 in.
Cable Length	160 ft.	**Cable Length**	160 ft.
Antenna Height	140.0 ft.	**Antenna Height**	140.0 ft.
Ground Reflection	1.6	**Ground Reflection**	1.6
Frequency	1945.0 MHz	**Frequency**	2.1 GHz
Jumper & Connector loss	4.50 dB	**Jumper & Connector loss**	1.50 dB
Antenna Gain	16.5 dBi	**Antenna Gain**	18.0 dBi
Cable Loss per foot	0.0116 dB	**Cable Loss per foot**	0.0116 dB
Total Cable Loss	1.8560 dB	**Total Cable Loss**	1.8560 dB
Total Attenuation	6.3560 dB	**Total Attenuation**	3.3560 dB
Total EIRP per Channel	53.15 dBm	**Total EIRP per Channel**	60.66 dBm
(In Watts)	206.74 W	**(In Watts)**	1165.36 W
Total EIRP per Sector	62.19 dBm	**Total EIRP per Sector**	63.67 dBm
(In Watts)	1653.94 W	**(In Watts)**	2330.72 W
nsg	10.1440	**nsg**	14.6440
Power Density (S) =	**0.020208 mW/cm^2**	**Power Density (S) =**	**0.028477 mW/cm^2**
T-Mobile Worst Case % MPE =		**4.8686%**	

Equation Used :

$$S = \frac{(1000)(grf)^2 (Power) * 10^{(nsg/10)}}{4\pi (R)^2}$$

Office of Engineering and Technology (OET) Bulletin 65, Edition 97-01, August 1997

Co-Location Total

Carrier	% of Standard
Verizon	9.6200 %
Cingular	5.6500 %
Sprint	
AT&T Wireless	
Nextel	
MetroPCS	
Other Antenna Systems	3.4800 %
Total Excluding T-Mobile	**18.7500 %**
T-Mobile	4.8686
Total % MPE for Site	**23.6186%**

THOMAS J. REGAN
Direct Dial: (860) 509-6522
tregan@brownrudnick.com

BROWNRUDNICK
CityPlace I
185 Asylum
Street
Hartford
Connecticut
06103
tel 860.509.6500
fax 860.509.6501

Via Hand Delivery

April 6, 2009

Daniel F. Caruso, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RE: T-Mobile USA, Inc - Exempt Modification

Dear Mr. Caruso:

On behalf of T-Mobile USA, Inc., enclosed for filing are an original and five (5) copies of a Notice to Make an Exempt Modification to an Existing Facility for each of the following:

1. Berlin @ 260 Beckley Road;
2. Bloomfield @ 28 Brewer Street;
3. Enfield @ 5 Town Farm Road, a/k/a 85 Post Office Road;
4. Farmington @ 130 Birdseye Road;
5. Hartford @ 305 West Service Road;
6. Rocky Hill @ 949 France Street;
7. South Windsor @ 59 McGuire Road;
8. Suffield @ 848 East Street South;
9. Vernon @ 197 South Street;
10. Wallingford @ 90 North Plains Industrial Road;
11. Wallingford @ 992 Northrop Road; and
12. Windsor @ 440 Hayden Station Road.

I have also enclosed a sixth copy of each Notice which I would like to have date-stamped and returned to the courier delivering this package.

Also enclosed are twelve (12) checks in the amount of $500.00 each to cover the filing fee. If you have any questions, please feel free to contact me.

Very truly yours,

BROWN RUDNICK BERLACK ISRAELS LLP

By: _____
Thomas J. Regan

TJR/bh
Enclosures

cc/encls: via 1st Class Mail:

Adam P. Salina, Mayor
Town of Berlin
240 Kensington Road
Berlin, CT 06037

Sydney T. Schulman, Mayor
Town of Bloomfield
Town Hall
800 Bloomfield Avenue
Bloomfield, CT 06002

Scott R. Kaupin, Mayor
Town of Enfield
Town Hall
820 Enfield Street
Enfield, CT 06082

Michael Clark, Chairman
Town Council
Town of Farmington
One Monteith Drive
Farmington, CT 06032-1053

Eddie A. Perez, Mayor
City of Hartford
Municipal Building
550 Main Street
Hartford, CT 06103-2992

Anthony LaRosa, Mayor
Town of Rocky Hill
Town Hall
761 Old Main Street
Rocky Hill, CT 06067-1519

Cary Prague, Mayor
Town of South Windsor
Town Hall
1540 Sullivan Avenue
South Windsor, CT 06074

Scott Lingenfelter, First Selectman
Town of Suffield
Town Hall
83 Mountain Road
Suffield, CT 06078

Jason L. McCoy, Mayor
Town of Vernon
Memorial Building
14 Park Place
Vernon, CT 06066

William W. Dickinson, Jr., Mayor
Town of Wallingford
Town Hall
45 South Main Street, Room 310
Wallingford, CT 06492

Donald Trinks, Mayor
Town of Windsor
Town Hall
275 Broad Street
PO Box 472
Windsor, CT 06095-0472