PULLMAN & COMLEY, LLC
ATTORNEYS AT LAW

EM-POCKET-002-080912

CARRIE L. LARSON
90 State House Square
Hartford, CT 06103-3702
p (860) 424-4312
f (860) 424-4370

www.pullcom.com

ORIGINAL

September 11, 2008

Via Federal Express

S. Derek Phelps, Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Re: Notice of Exempt Modification
Crown Castle Telecommunications Facility
401 Wakelee Avenue, Ansonia, Connecticut

Dear Mr. Phelps:

Youghiogheny Communications-Northeast, LLC, doing business as Pocket Communications ("Pocket"), intends to install antennas and appurtenant equipment at the existing 196-foot lattice tower facility owned by American Tower Corporation and located at 401 Wakelee Avenue, Ansonia, Connecticut ("Facility"). Pocket Communications provides prepaid, flat rate wireless voice and data services to more than a quarter of a million subscribers. Pocket is licensed by the Federal Communications Commission (FCC) to provide PCS wireless telecommunications service in the State of Connecticut, which includes the area to be served by the proposed installation. This installation constitutes an exempt modification pursuant to the Public Utility Environmental Standards Act, Connecticut General Statutes Section 16-50g et. seq. (PUESA), and Section 16-50j-72(b)(2) of the Regulations of the Connecticut State Agencies adopted pursuant to PUESA. In accordance with R.C.S.A. Section 16-50j-73, a copy of this notice has been sent to James T. Della Volpe, Mayor, Town of Ansonia.

The existing Facility consists of a 196-foot self-supporting lattice tower capable of supporting multiple carriers within a fenced compound. The coordinates for the Facility are **Lat: 41°-21'-22"** and **Long: 73°–05'-30".** The tower is located at 401 Wakelee Avenue, Ansonia. The Facility is at the north end of a municipal recreation complex, between Route 8 (a few hundred feet to the west) and Wakelee Avenue (a few hundred feet to the east). The Facility is in the northern portion of Ansonia, roughly 800 feet west of the Naugatuck River and roughly 1,300 feet south of the Seymour town line (see Site Map, attached as Exhibit A). The tower currently supports T-Mobile antennas at the one hundred forty eight foot level (148') centerline AGL (above ground level), AT&T antennas at the one hundred sixty eight foot level (168') AGL, Verizon antennas at the one hundred seventy eight foot level (178') AGL, Sprint antennas at the one hundred eighty four foot level (184') AGL and Nextel at the one hundred ninety four foot level (194') AGL. Pocket proposes to install three Kathrein 742-213 antennas on the tower

cc: James T. Della Volpe, Mayor, Town of Ansonia (Town of Ansonia is also underlying property owner).

Exhibit A

Site Map

Pocket Site NHCT0013

401 Wakelee Avenue,

Ansonia, Connecticut

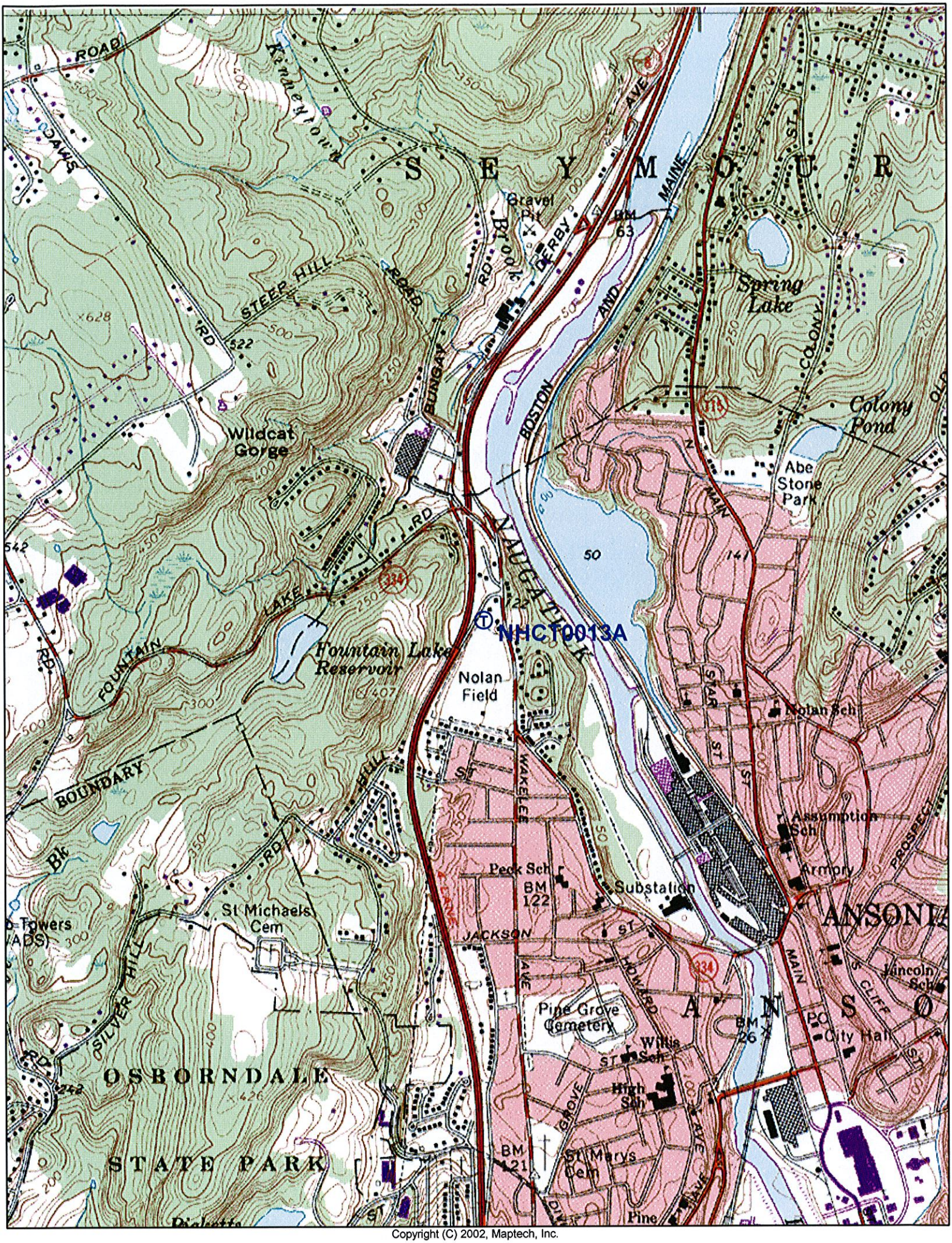

SEYMOUR
ANSONIA
OSBORNDALE
STATE PARK
NHCT0013A
Fountain Lake Reservoir
Wildcat Gorge
Spring Lake
Colony Pond
Abe Stone Park
Nolan Field
Peck Sch
BM 122
Substation
St Michaels Cem
Pine Grove Cemetery
BM 26
City Hall
Lincoln Sch
Assumption Sch
Armory
Nolan Sch
Willis Sch
High Sch
St Marys Cem
BM 21
Gravel Pit
BM 63
Towers (ADS)
STEEP HILL ROAD
RD
BOSTON AND MAINE
DERBY
BROOK
BUNGAY
VAUGHTINK
MAIN
COLONY
ST
AVE
LAKE
FOUNTAIN
BOUNDARY
HILL
SILVER HILL
WAKELEE
JACKSON
HOWARD
GROVE
CLIFF
PROSPECT
PINE
Copyright (C) 2002, Maptech, Inc.

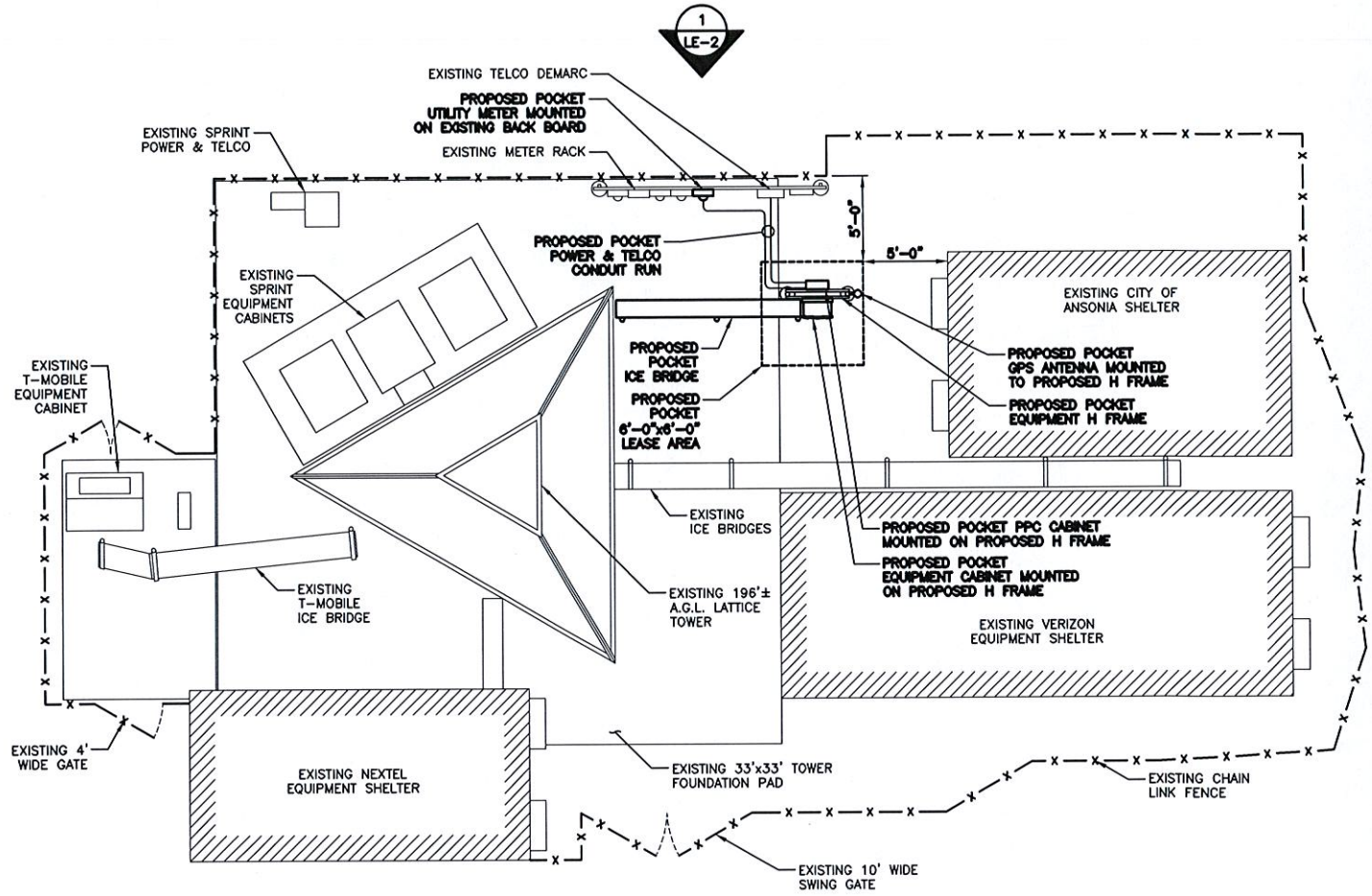
Exhibit B

Design Drawings

Pocket Site NHCT0013

401 Wakelee Avenue,

Ansonia, Connecticut



COMPOUND PLAN

1

SCALE: N.T.S.

APPROX. COAX RUN
185'

APPROVALS

SITE OWNER	DATE
CONSTRUCTION MANAGER	DATE
R.F ENGINEER	DATE
SITE ACQUISITION	DATE

THE ABOVE PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION AND INSTALLATION OF ALL COMMUNICATION EQUIPMENT AS SHOWN. ALL CONSTRUCTION SHOWN ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES OR MODIFICATIONS THEY MAY IMPOSE.

MAXTON
50 Eastman St.
South Easton, MA 02375
Phone: (508) 936-8363
Fax: (508) 936-8395

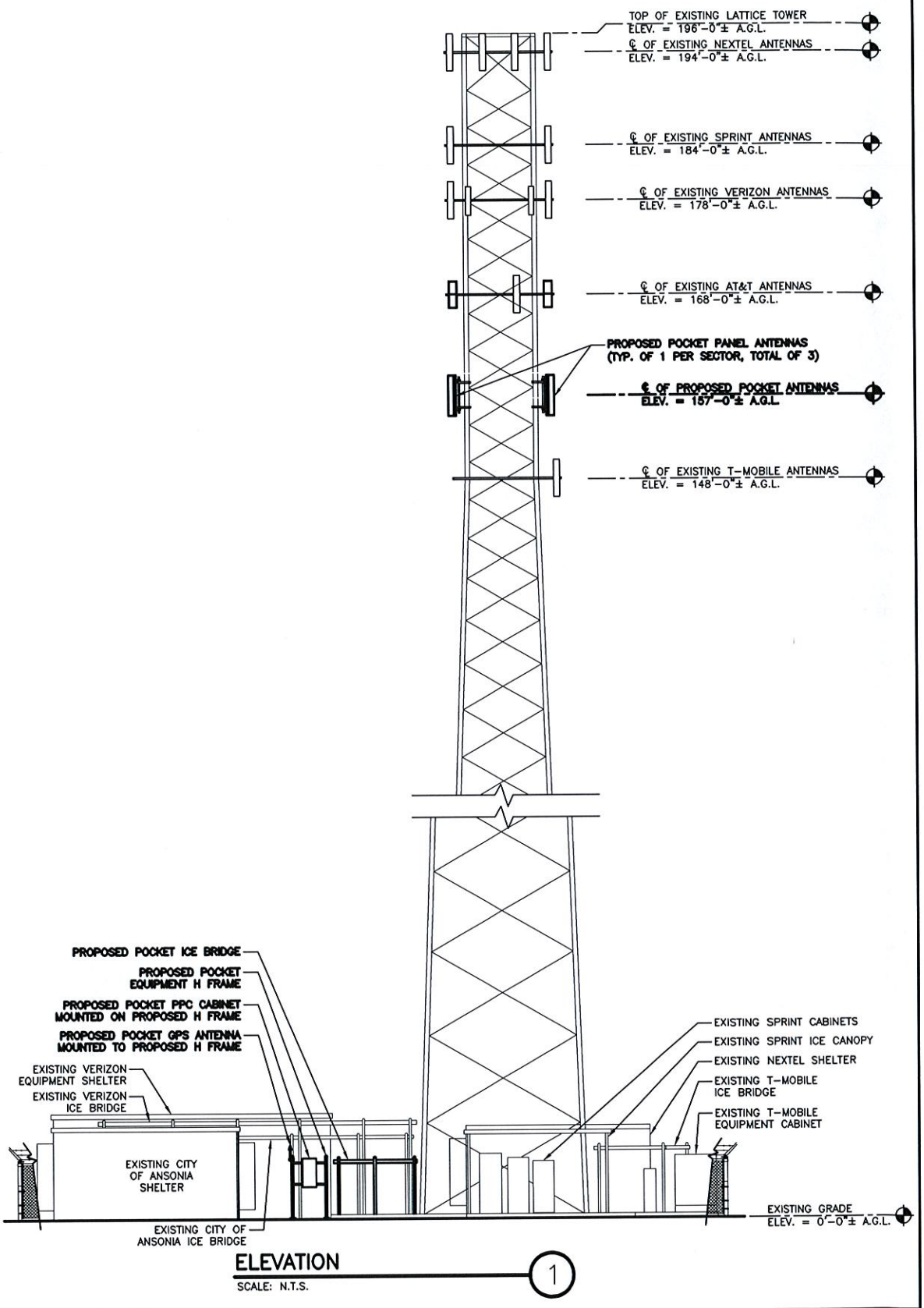
BAY STATE DESIGN
Bay State Design Associates, Inc.
Architects • Engineers
70 Tower Office Park
Woburn, MA 01801
Phone: 781-932-2467
Fax: 781-932-9771

PREPARED FOR:

pocket SMART WIRELESS

Pocket Communications
P.O. Box 5936
San Antonio, TX 78201

SITE NUMBER: NHCT013A	DRAWN BY: JRK	PROJECT NUMBER: 2882.003	
SITE NAME: NH-013A ANSONIA, CT	CHECKED BY: JP	SHEET: LE-1	
SITE ADDRESS: 401 WAKLEE AVENUE ANSONIA, CT	DATE: 09/09/08		



ELEVATION 1

SCALE: N.T.S.

APPROVALS

SITE OWNER	DATE
CONSTRUCTION MANAGER	DATE
R.F ENGINEER	DATE
SITE ACQUISITION	DATE

THE ABOVE NAMED HEREBY APPROVE AND ACCEPT THESE DRAWINGS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION INDICATED HEREON. ALL CONSTRUCTION SHOWN HEREON MUST STRICTLY CONFORM TO ALL LOCAL BUILDING ORDINANCES AND ANY CHANGES OR MODIFICATIONS THEY MAY IMPOSE.

MAXTON
50 Eastman St.
South Easton, MA 02375
Phone: (508) 636-6363
Fax: (508) 636-6366

BAY STATE DESIGN
Bay State Design Associates, Inc.
Architects • Engineers
70 Tower Office Park
Woburn, MA 01801
Phone: 781-932-2467
Fax: 781-932-9771

PREPARED FOR:

pocket SMART WIRELESS

Pocket Communications
P.O. Box 5936
San Antonio, TX 78201

SITE NUMBER: NHCT013A		DRAWN BY: JRK	PROJECT NUMBER: 2882.003
SITE NAME: NH-013A ANSONIA, CT		CHECKED BY: JP	SHEET: LE-2
SITE ADDRESS: 401 WAKLEE AVENUE ANSONIA, CT		DATE: 09/09/08	

Exhibit C

Equipment Specifications

Pocket Site NHCT0013

401 Wakelee Avenue,

Ansonia, Connecticut

KATHREIN
SCALA DIVISION

742 213

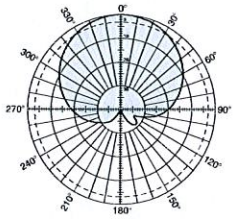
65° Panel Antenna

Kathrein's X-polarized adjustable electrical downtilt antennas offer the wireless carrier the ability to tailor polarization diversity sites for optimum performance. Using variable downtilt, only a few models need be procured to accommodate the needs of widely varying conditions. Remotely controlled downtilt is available as a retrofitable option.

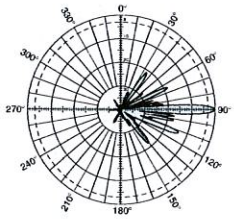
- 0-6° downtilt range.
- UV resistant pulltruded fiberglass radome.
- DC Grounded metallic parts for impulse suppression.
- No moving electrical connections.
- Wideband vector dipole technology.
- Optional remote downtilt Control.
- Will accomodate future 3G / UMTS applications.

General specifications:

Frequency range	1710–2170 MHz
VSWR	< 1.5:1
Impedance	50 ohms
Intermodulation (2x20w)	IM3: <-150 dBc
Polarization	+45° and -45°
Front-to-back ratio (180°±30°)	>30 dB (co-polar) >25 dB (total power)
Maximum input power	300 watts per input (at 50°C)
Electrical downtilt continuously adjustable	0–6 degrees
Connector	2 x 7/16 DIN female
Isolation	>30 dB
Cross polar ratio Main direction 0° Sector ±60°	 25 dB (typical) >10 dB
Weight	22 lb (10 kg)
Dimensions	76.5 x 6.1 x 2.7 inches (1942 x 155 x 69 mm)
Equivalent flat plate area	4.62 ft² (0.429 m²)
Wind survival rating*	120 mph (200 kph)
Shipping dimensions	87.2 x 6.8 x 3.6 inches (2214 x 172 x 92 mm)
Shipping weight	24.3 lb (11 kg)
Mounting	Fixed and tilt mount options are available for 2 to 4.6 inch (50 to 115 mm) OD masts.
See reverse for order information.	



Horizontal pattern
±45°- polarization



Vertical pattern
±45°- polarization

Specifications:	**1710–1880 MHz**	**1850–1990 MHz**	**1920–2170 MHz**
Gain	19 dBi	19.2 dBi	19.5 dBi
+45° and -45° polarization horizontal beamwidth	67° (half-power)	65° (half-power)	63° (half-power)
+45° and -45° polarization vertical beamwidth	4.7° (half-power)	4.5° (half-power)	4.3° (half-power)
Vertical Pattern–sidelobe suppression for first side-lobe above main beam	0° 2° 4° 6° T 18 17 15 15 dB	0° 2° 4° 6° T 18 18 17 15 dB	0° 2° 4° 6° T 18 18 17 15 dB

RoHS Lead-Free

*Mechanical design is based on environmental conditions as stipulated in EIA-222-F (June 1996) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.

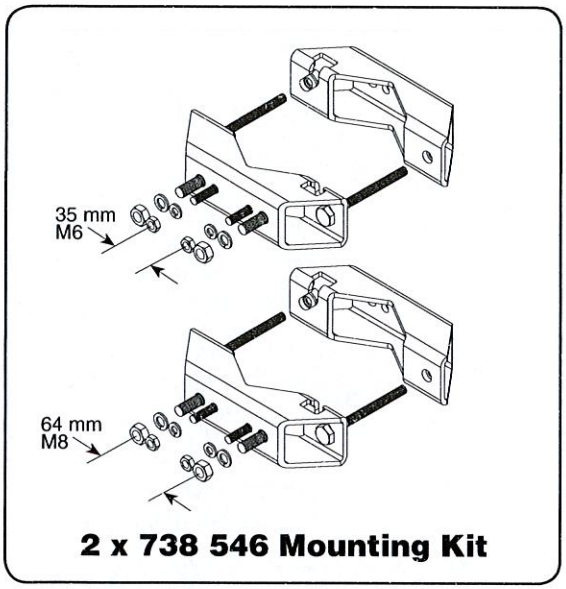
10642-H
936.2074/h

Kathrein Inc., Scala Division Post Office Box 4580 Medford, OR 97501 (USA) Phone: (541) 779-6500 Fax: (541) 779-3991
Email: communications@kathrein.com Internet: www.kathrein-scala.com

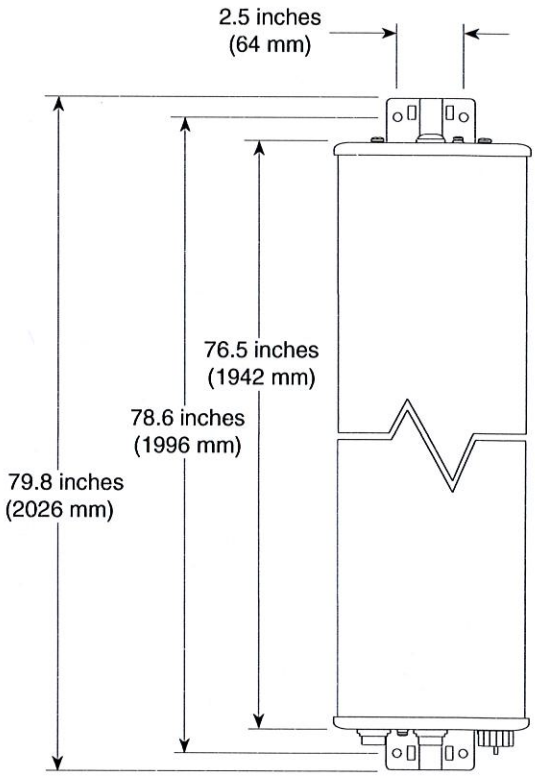
KATHREIN
SCALA DIVISION

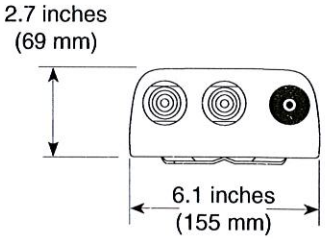
742 213

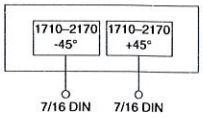
65° Panel Antenna



2 x 738 546 Mounting Kit







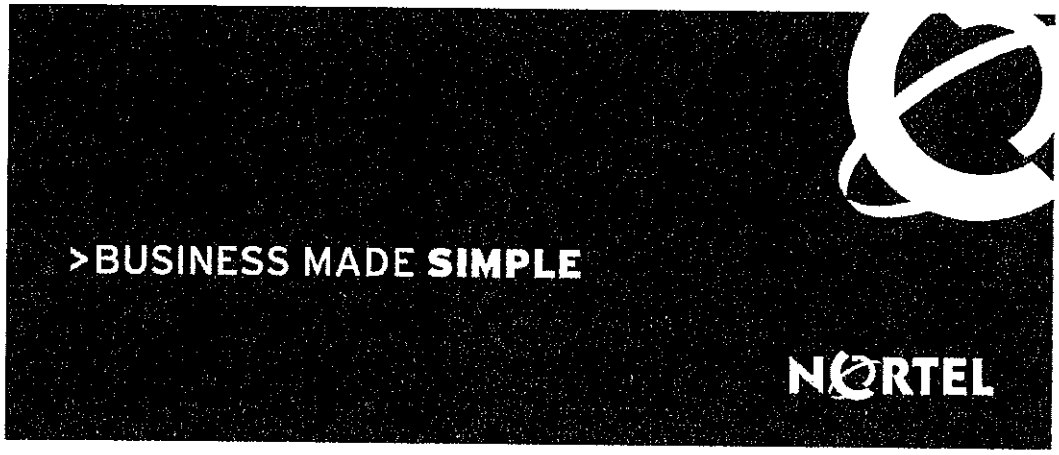
Mounting Options:

Model	Description
2 x 738 546	Mounting Kit for 2 to 4.6 inch (50 to 115 mm) OD mast.
737 978	Tilt Kit for use with the above mounting kit, 0–11 degrees downtilt angle. (requires 2 x 738 546 Mounting Kit)
742 263	Three-panel Sector Mounting Kit (120 deg. ea.) for 3.5 inch (89 mm) OD mast.

Order Information:

Model	Description
742 213	Antenna with 7/16 DIN connectors 0°–6° adjustable electrical downtilt

Kathrein Inc., Scala Division Post Office Box 4580 Medford, OR 97501 (USA) Phone: (541) 779-6500 Fax: (541) 779-3991
Email: communications@kathrein.com Internet: www.kathrein-scala.com



CDMA BTS 3231 AWS 1.7/2.1 GHz (Outdoor/Indoor)

CDMA BTS 3231

Industry's Highest Capacity AWS Micro BTS

The CDMA BTS 3231 is the latest extension to Nortel Networks BTS (Base Transceiver Station) portfolio providing the ideal solution for urban, sub-urban and rural deployments. The CDMA BTS 3231 is a 3-carrier, 3-sector outdoor/indoor BTS operating at the AWS band of 1.7/2.1 GHz supporting IS-95, 1XRTT and 1xEV-DO simultaneously. BTS 3231 provides flexible deployments solutions including floor, rack, and wall mount options. The power consumption of BTS3231 is industry leading consuming only 630W for 3C3S. The BTS 3231 is also very light at 240lbs making it easy to transport to hard to reach locations such as the top of a high rise building.

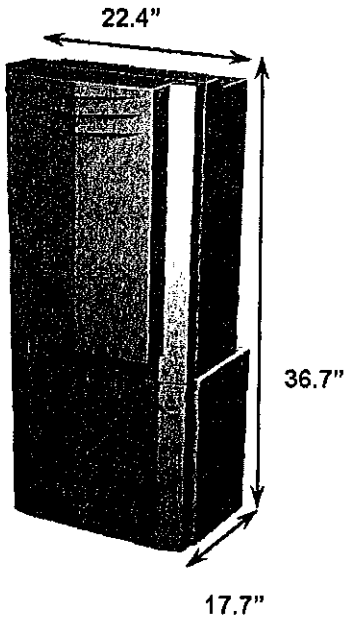


Exhibit D

Power Density Calculations

Pocket Site NHCT0013

401 Wakelee Avenue,

Ansonia, Connecticut

C Squared Systems, LLC
920 Candia Road
Manchester, NH 03109
Phone: (603) 657 9702
E-mail:
support@csquaredsystems.com

Calculated Radio Frequency Emissions

NHCT0013

401 Wakelee Ave, Ansonia, CT

Table of Contents

List of Tables

1. Introduction

The purpose of this report is to investigate compliance with applicable FCC regulations for the proposed Pocket antennas to be installed on the existing tower at 401 Wakelee Ave, Ansonia, CT.

These calculations assume that the antennas are operating at 100 percent capacity, that all antenna channels are transmitting simultaneously, and that the radio transmitters are operating at full power. Obstructions (trees, buildings etc.) that would normally attenuate the signal are not taken into account. As a result, the predicted signal levels are much more conservative (higher) than the actual signal levels will be from the finished installation.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter (mW/ cm^2). The number of mW/cm^2 emitted is called the power density. The general population exposure limit for the cellular band is 0.567-0.593 mW/ cm^2, and the general population exposure limit for the PCS/AWS band is 1.0 mW/ cm^2. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

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

Higher exposure limits are permitted under the occupational / controlled exposure category, but only for persons who are exposed as a consequence of their employment and who have been made fully aware of the potential for exposure (through training), and they must be able to exercise control over their exposure. General population / uncontrolled limits are five times more stringent than the levels that are acceptable for occupational, or radio frequency trained individuals."

The FCC describes exposure to radio frequency (RF) energy in terms of percentage of maximum permissible exposure (MPE) with 100% being the maximum allowed. Rather than the FCC presenting the user specification in terms of complex power density figures over a specified surface area, this MPE measure is particularly useful, and even more so when considering that power density limits actually vary by frequency because of the different absorptive properties of the human body at different frequencies.

MPE limits are specified as time-averaged exposure limits. This means that exposure can be averaged over 30 minutes for general population / uncontrolled exposure (or 6 minutes for occupational / controlled exposure). However, for the case of exposure of the general public, time averaging is usually not applied because of uncertainties over exact exposure conditions and difficulty in controlling time of exposure. Therefore, the typical conservative approach is to assume that any RF exposure to the general public will be continuous.

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

2. FCC Guidelines for Evaluating RF Radiation Exposure Limits

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

Attachment B contains excerpts from OET Bulletin 65 and defines the Maximum Exposure Limit. As shown in these excerpts, each frequency band has different exposure limits, requiring power density to be reported as a percent of Maximum Permissible Exposure (MPE) when dealing with carriers transmitting in different frequency bands.

3. RF Exposure Prediction Methods

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

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

Where:

EIRP = Effective Isotropic Radiated Power

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

H = Horizontal Distance from antenna

V = Vertical Distance from bottom of antenna

Off Beam Loss is determined by the selected antenna patterns

4. Calculation Results

Table 1 below outlines the power density information for the site. All information for carriers other than Pocket was obtained from previous siting council filings.

Carrier	Number of Trans.	Effective Radiated Power (ERP) Per Transmitter (Watts)	Antenna Height (Feet)	Operating Frequency (MHz)	Total ERP (Watts)	Power Density (mw/cm^2)	Limit	%MPE
AT&T GSM	8	296	167	880	2,368	0.0305	0.5867	5.20%
AT&T GSM	2	427	167	1900	854	0.0110	1.0000	1.10%
Sprint CDMA	11	367	188	1962.5	4,037	0.0411	1.0000	4.11%
Verizon	9	200	178	880	1,800	0.0204	0.5867	3.48%
Verizon	3	285	178	1900	855	0.0097	1.0000	0.97%
Sprint Nextel iDEN	12	100	194	851	1,200	0.0115	0.5673	2.02%
Sprint Nextel WiMAX	3	562	194	2657	1,686	0.0161	1.0000	1.61%
T-Mobile	8	246	148	1930	1,968	0.0323	1.0000	3.23%
Pocket	3	631	157	2130-2133.75	1,893	0.0276	1.0000	2.76%
							Total	24.49%

Table 1: Proposed Carrier Information

5. Conclusion

The above analysis verifies that emissions from the proposed site will be well below the maximum power density levels as outlined by the FCC in the OET Bulletin 65 Ed. 97-01. Even when using conservative methods, the cumulative power density from the proposed transmit antennas at the existing facility is well below the limits for the general public. The highest expected percent of Maximum Permissible Exposure at the base of the tower is 24.49% of the FCC limit.

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

6. Statement of Certification

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

Tony Wells
C Squared Systems

September 8, 2008
Date

Attachment A: References

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

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

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

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

(A) Limits for Occupational/Controlled Exposure

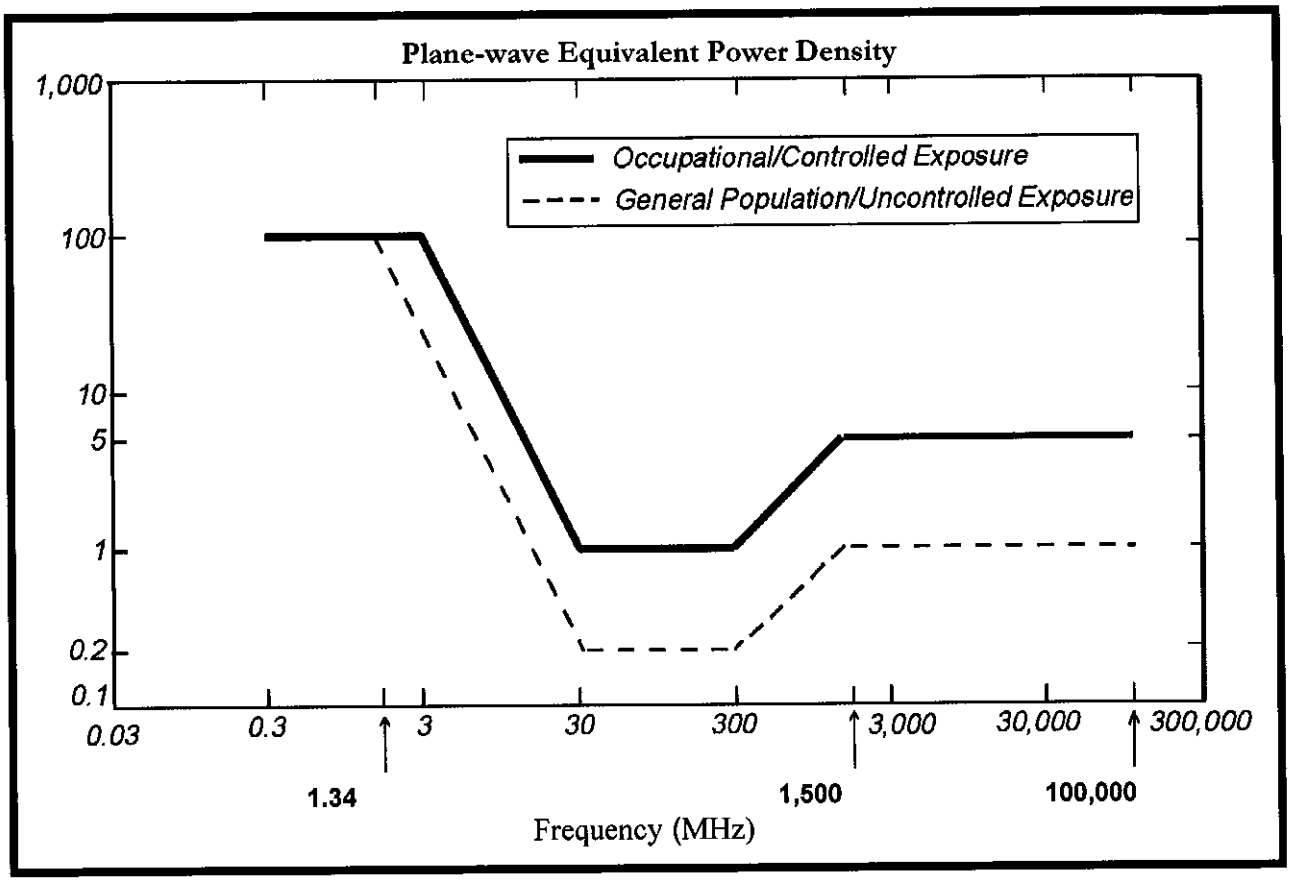
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	($900/f^2$)*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	f/300	6
1500-100,000	-	-	5	6

(B) Limits for General Population/Uncontrolled Exposure

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

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

NOTE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.
NOTE 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.



• FCC Limits for Maximum Permissible Exposure (MPE)

Exhibit E

Structural Analysis

Pocket Site NHCT0013

401 Wakelee Avenue,

Ansonia, Connecticut

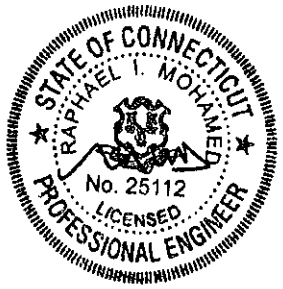
AMERICAN TOWER

Structural Analysis Report

Structure	:	**196 ft Rohn Self Supported Tower**
ATC Site Name	:	**Ansonia Wakelee, CT**
ATC Site Number	:	**302470**
Proposed Carrier	:	**Youghiogheny**
Carrier Site Name	:	**New Haven 013**
Carrier Site Number	:	**New Haven 013**
County	:	**New Haven**
Eng. Number	:	**42299522**
Date	:	**August 11, 2008***
Usage	:	**92% Legs, 94% Diagonals, 15% Horizontals**

Submitted by:
Zachary A. Medoff, E.I.
Design Engineer

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



8/13/08

Introduction

The purpose of this report is to summarize results of the structural analysis performed on the 196 ft Rohn Self Supported Tower located at 401 Wakelee Avenue, Ansonia, CT 06401, New Haven County (ATC site #302470). The tower was originally designed and manufactured by Rohn (Drawing #A991899, dated July 7, 1999).

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: 85 mph (Fastest Mile) / 105 mph (3-Second Gust)
Radial Ice: 74 mph (Fastest Mile) w/ ½" ice
Code: TIA/EIA-222-F / 2003 International Building Code w/ 2005 CT Supplement & 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
194.0	9	48" x 12" Panels	Round Sector Frames	(12) 1 1/4	Sprint Nextel
	3	72" x 12" Panels			
	3	KMW HB-X-WM-17-65-00T			
184.0	6	Andrew DB950F65E-M	Round Sector Frames	(6) 1 5/8	
178.0	6	Decibel DB844H90E-XY	Flat Light Sector Frames	(12) 1 5/8	Verizon
	6	Decibel 948F85T2E-M			
167.0	6	CSS DUO1417-8686	Round Sector Frames	(6) 1 1/4	AT&T Mobility
	3	Powerwave 7770.00			
	6	14" x 9" TTA			
	3	Powerwave LGP21902			
148.0	6	EMS RR90-17-02DP	Round Sector Frames	(12) 1 5/8	T-Mobile
130.0	1	Andrew VHLP1-23	Dish	(2) 1/2	Sprint Nextel
	1	Andrew VHLP2.5	Dish		
125.0	2	Motorola PTP54600	Leg	(2) 1/4	City Of Ansonia
124.0	1	GPS	Side Arm	(1) 1/2	Verizon
104.0	2	GPS	Side Arms	(2) 1/2	Sprint Nextel
82.0	1	10' Omni	Side Arm	(1) 1/2	Ansonia Fire Dept.
76.0	1	GPS	Side Arm	(1) 1/2	Sprint Nextel

Proposed Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax (in)	Carrier
157.0	3	Kathrein 742 213	Leg	(6) 1 5/8	Youghiogheny

Install proposed coax on same tower face as the (6) Sprint Nextel lines leading to 184'.

Results

The maximum structure usage is: 94%

Leg Forces	Original Design Reactions	Current Analysis Reactions	% Of Design
Uplift (Kips)	301.1	292.6	97
Axial (Kips)	343.0	350.2	102
Shear (Kips)	36.3	36.3	100

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

Conclusion

Based on the analysis results, the structure meets the requirements per TIA/EIA-222-F and 2003 IBC w/ 2005 CT Supplement and 2008 CT Amendments. 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 919-465-6535.

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:

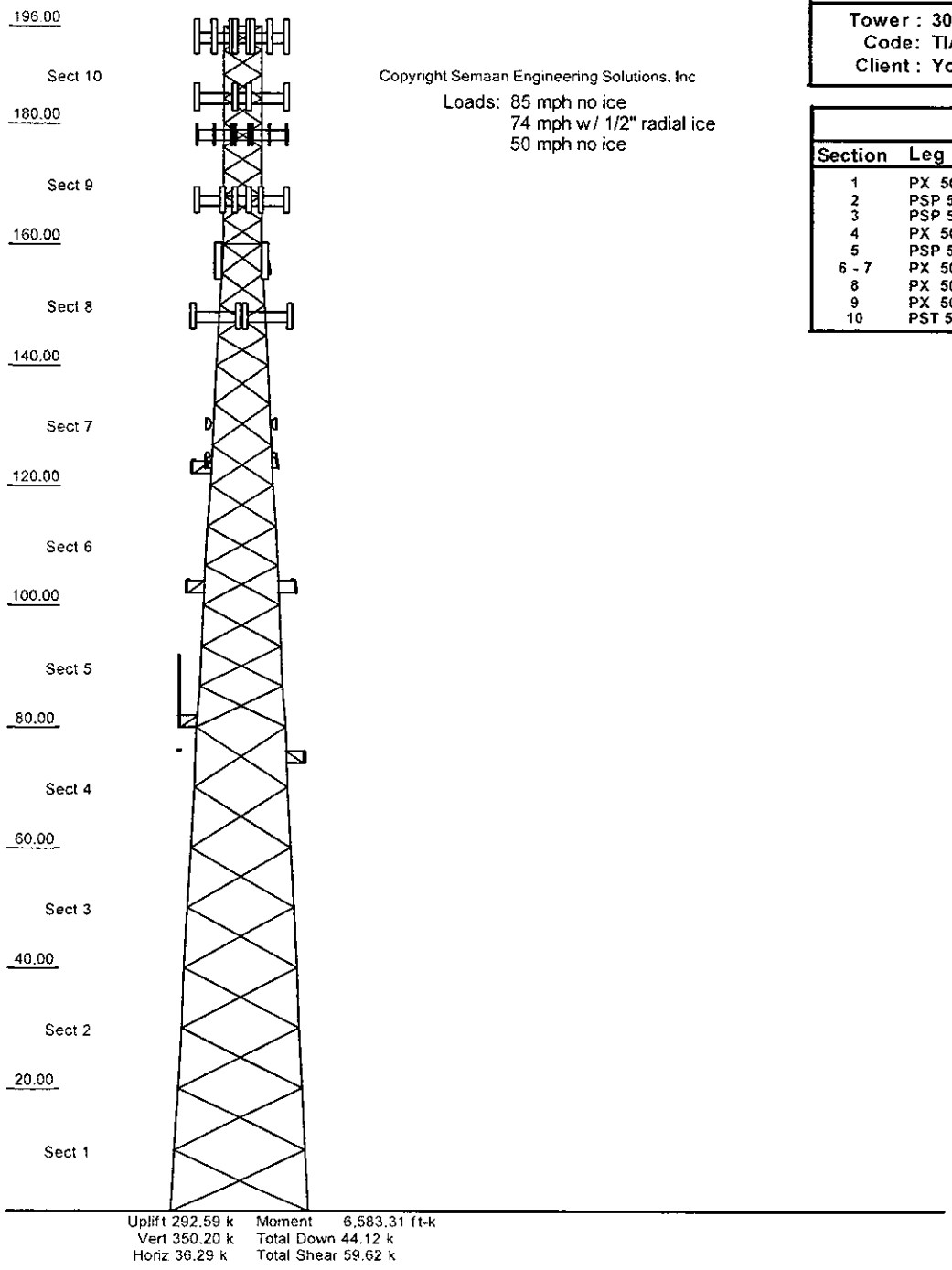
-- Information supplied by the client regarding the structure itself, the antenna and feed line loading on the structure and its components, or other relevant information.

-- 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.



Loads: 85 mph no ice
74 mph w/ 1/2" radial ice
50 mph no ice

Job Information

Tower : 302470	Location : Ansonia Wakelee, CT	
Code: TIA/EIA-222 Rev F	Shape : Triangle	Base Width : 23.00 ft
Client : Youghiogheny		Top Width : 6.65 ft

Sections Properties

Section	Leg Members	Diagonal Members	Horizontal Members
1	PX 50ksi 8" DIA PIPE	SAE 36ksi 4X4X0.25	
2	PSP 50ksi ROHN 8 EHS	SAE 36ksi 4X4X0.25	
3	PSP 50ksi ROHN 8 EHS	SAE 36ksi 3.5X3.5X0.25	
4	PX 50ksi 6" DIA PIPE	SAE 36ksi 3.5X3.5X0.25	
5	PSP 50ksi ROHN 6 EHS	SAE 36ksi 3X3X0.25	
6 - 7	PX 50ksi 5" DIA PIPE	SAE 36ksi 2.5X2.5X0.25	
8	PX 50ksi 4" DIA PIPE	SAE 36ksi 2X2X0.25	SAE 36ksi 2X2X0.25
9	PX 50ksi 3" DIA PIPE	SAE 36ksi 2X2X0.1875	
10	PST 50ksi 2-1/2" DIA PIPE	SAE 36ksi 1.75X1.75X0.1875	SAE 36ksi 1.75X1.75X0.1875

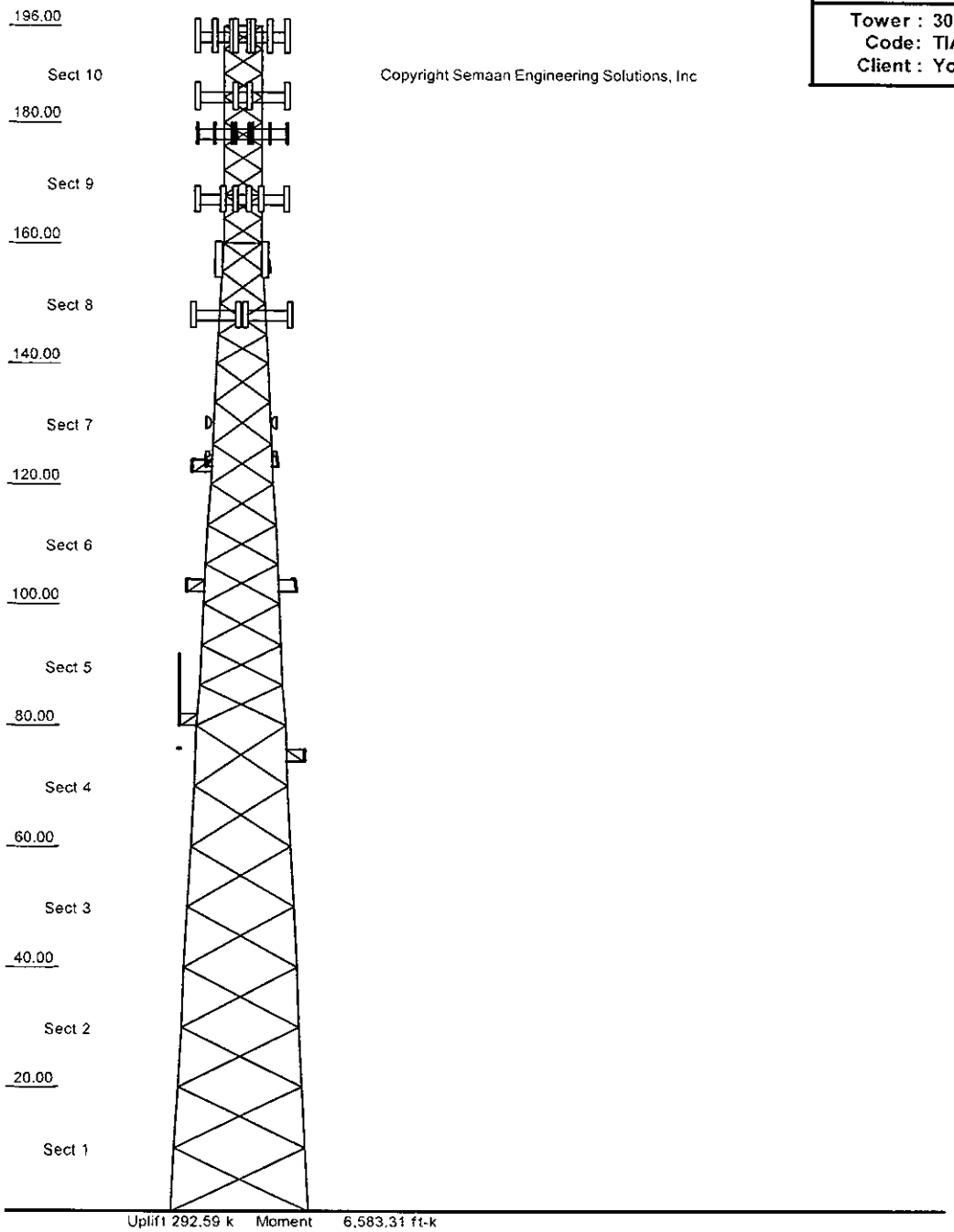
Discrete Appurtenance

Elev (ft)	Type	Qty	Description
194.00		3	KMW HB-X-WM-17-65-00T
194.00	Mounting Frame	3	Round Sector Frames
194.00	Panel	3	72" x 12" Panels
194.00	Panel	9	48" x 12" Panels
184.00	Mounting Frame	3	Round Sector Frames
184.00	Panel	6	Andrew DB950F65E-M
178.00	Mounting Frame	3	Flat Light Sector Frames
178.00	Panel	6	Decibel 948F85T2E-M
178.00	Panel	6	Decibel DB844H90E-XY
167.00	Mounting Frame	3	Round Sector Frames
167.00		3	Powerwave LGP21902
167.00		6	14" x 9" TTA
167.00	Panel	3	Powerwave 7770.00
167.00	Panel	6	CSS DUO1417-8686
157.00	Panel	3	Kathrein 742 213
148.00	Mounting Frame	3	Round Sector Frames
148.00	Panel	6	EMS RR90-17-02DP
130.00	Dish	1	Andrew VHLP2.5
130.00	Dish	1	Andrew VHLP1-23
125.00	Panel	2	Motorola PTP54600
124.00	Straight Arm	1	Side Arm
124.00	Panel	1	GPS
104.00	Straight Arm	2	Side Arms
104.00	Panel	2	GPS
82.00	Straight Arm	1	Side Arm
82.00	Whip	1	10' Omni
76.00	Straight Arm	1	Side Arm
76.00	Panel	1	GPS

Linear Appurtenance

Elev (ft) From	To	Qty	Description
8.000	194.00	12	1 1/4" Coax
8.000	193.99	1	Wave Guide
8.000	184.00	6	1 5/8" Coax
8.000	183.99	1	Wave Guide
8.000	178.00	12	1 5/8" Coax
8.000	167.00	12	1 1/4" Coax
8.000	166.99	1	Wave Guide
0.000	157.00	6	1 5/8" Coax
8.000	148.00	12	1 5/8" Coax
8.000	147.99	1	Wave Guide
8.000	130.00	2	1/2" Coax
8.000	125.00	2	1/4" Coax
8.000	124.00	1	1/2" Coax
8.000	104.00	2	1/2" Coax
8.000	82.000	1	1/2" Coax
8.000	76.000	1	1/2" Coax

Job Information		
Tower : 302470	Location : Ansonia Wakelee, CT	
Code: TIA/EIA-222 Rev F	Shape : Triangle	Base Width : 23.00 ft
Client : Youghiogheny		Top Width : 6.65 ft



Uplift 292.59 k Moment 6,583.31 ft-k
Vert 350.20 k Total Down 44.12 k
Horiz 36.29 k Total Shear 59.62 k

Site Number: 302470
Location: Ansonia Wakelee, CT

Code: TIA/EIA-222 Rev F

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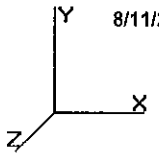

Gh : 1.12

Section Forces

LoadCase Normal No Ice — 85.00 mph Wind Normal To Face with No Ice

Allow Stress Inc: 1.333
Dead LF: 1.000
Wind LF: 1.000

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Rr	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	Eff Face
10	188.0	30.41	12.04	23.94	0.00	0.34	2.20	1.00	1.00	0.63	27.08	0.00	0.00	948.6	0.0	2,019.83	0.00	2,019.83	3
9	170.0	29.55	15.77	46.80	0.00	0.47	1.94	1.00	1.00	0.68	47.72	0.00	0.00	1,944.7	0.0	3,053.01	0.00	3,053.01	3
8	150.0	28.51	31.93	52.81	0.00	0.55	1.84	1.00	1.00	0.73	70.23	0.00	0.00	2,833.6	0.0	4,111.74	0.00	4,111.74	3
7	130.0	27.37	57.09	58.64	0.00	0.60	1.81	1.00	1.00	0.75	101.13	0.00	0.00	3,496.0	0.0	5,576.09	0.00	5,576.09	3
6	110.0	26.09	59.24	59.93	0.00	0.51	1.89	1.00	1.00	0.70	101.24	0.00	0.00	3,632.3	0.0	5,571.77	0.00	5,571.77	3
5	90.00	24.64	65.10	65.15	0.00	0.47	1.94	1.00	1.00	0.68	109.64	0.00	0.00	4,115.5	0.0	5,841.66	0.00	5,841.66	3
4	70.00	22.93	64.10	65.15	0.00	0.41	2.05	1.00	1.00	0.65	106.77	0.00	0.00	4,417.2	0.0	5,593.18	0.00	5,593.18	3
3	50.00	20.83	66.00	72.25	0.00	0.39	2.09	1.00	1.00	0.65	112.68	0.00	0.00	4,866.4	0.0	5,474.15	0.00	5,474.15	3
2	30.00	18.50	71.70	72.25	0.00	0.36	2.15	1.00	1.00	0.64	117.69	0.00	0.00	5,206.2	0.0	5,210.01	0.00	5,210.01	3
1	10.00	18.50	57.00	54.62	0.00	0.25	2.43	1.00	1.00	0.60	89.93	0.00	0.00	5,397.5	0.0	4,499.53	0.00	4,499.53	3
														36,857.8	0.0			46,950.97	

LoadCase 60 deg No Ice — 85.00 mph Wind at 60 deg From Face with No Ice

Allow Stress Inc: 1.333
Dead LF: 1.000
Wind LF: 1.000

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Rr	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	Eff Face
10	188.0	30.41	12.04	23.94	0.00	0.34	2.20	0.80	1.00	0.63	24.67	0.00	0.00	948.6	0.0	1,840.26	0.00	1,840.26	3
9	170.0	29.55	15.77	46.80	0.00	0.47	1.94	0.80	1.00	0.68	44.57	0.00	0.00	1,944.7	0.0	2,851.22	0.00	2,851.22	3
8	150.0	28.51	31.93	52.81	0.00	0.55	1.84	0.80	1.00	0.73	63.85	0.00	0.00	2,833.6	0.0	3,737.92	0.00	3,737.92	3
7	130.0	27.37	57.09	58.64	0.00	0.60	1.81	0.80	1.00	0.75	89.71	0.00	0.00	3,496.0	0.0	4,946.48	0.00	4,946.48	3
6	110.0	26.09	59.24	59.93	0.00	0.51	1.89	0.80	1.00	0.70	89.39	0.00	0.00	3,632.3	0.0	4,919.73	0.00	4,919.73	3
5	90.00	24.64	65.10	65.15	0.00	0.47	1.94	0.80	1.00	0.68	96.62	0.00	0.00	4,115.5	0.0	5,147.89	0.00	5,147.89	3
4	70.00	22.93	64.10	65.15	0.00	0.41	2.05	0.80	1.00	0.65	93.95	0.00	0.00	4,417.2	0.0	4,921.54	0.00	4,921.54	3
3	50.00	20.83	66.00	72.25	0.00	0.39	2.09	0.80	1.00	0.65	99.48	0.00	0.00	4,866.4	0.0	4,832.89	0.00	4,832.89	3
2	30.00	18.50	71.70	72.25	0.00	0.36	2.15	0.80	1.00	0.64	103.35	0.00	0.00	5,206.2	0.0	4,575.15	0.00	4,575.15	3
1	10.00	18.50	57.00	54.62	0.00	0.25	2.43	0.80	1.00	0.60	78.53	0.00	0.00	5,397.5	0.0	3,929.14	0.00	3,929.14	3
														36,857.8	0.0			41,702.22	

LoadCase 90 deg No Ice — 85.00 mph Wind at 90 deg From Face with No Ice

Allow Stress Inc: 1.333
Dead LF: 1.000
Wind LF: 1.000

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Rr	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	Eff Face
10	188.0	30.41	12.04	23.94	0.00	0.34	2.20	0.85	1.00	0.63	25.27	0.00	0.00	948.6	0.0	1,885.15	0.00	1,885.15	3

Site Number: 302470
Location: Ansonia Wakelee, CT

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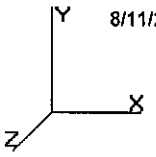
Code: TIA/EIA-222 Rev F



Gh : 1.12

Section Forces

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Rr	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	Eff Face
9	170.0	29.55	15.77	46.80	0.00	0.47	1.94	0.85	1.00	0.68	45.36	0.00	0.00	1,944.7	0.0	2,901.67	0.00	2,901.67	3
8	150.0	28.51	31.93	52.81	0.00	0.55	1.84	0.85	1.00	0.73	65.44	0.00	0.00	2,833.6	0.0	3,831.38	0.00	3,831.38	3
7	130.0	27.37	57.09	58.64	0.00	0.60	1.81	0.85	1.00	0.75	92.56	0.00	0.00	3,496.0	0.0	5,103.88	0.00	5,103.88	3
6	110.0	26.09	59.24	59.93	0.00	0.51	1.89	0.85	1.00	0.70	92.36	0.00	0.00	3,632.3	0.0	5,082.74	0.00	5,082.74	3
5	90.00	24.64	65.10	65.15	0.00	0.47	1.94	0.85	1.00	0.68	99.87	0.00	0.00	4,115.5	0.0	5,321.33	0.00	5,321.33	3
4	70.00	22.93	64.10	65.15	0.00	0.41	2.05	0.85	1.00	0.65	97.15	0.00	0.00	4,417.2	0.0	5,089.45	0.00	5,089.45	3
3	50.00	20.83	66.00	72.25	0.00	0.39	2.09	0.85	1.00	0.65	102.78	0.00	0.00	4,866.4	0.0	4,993.21	0.00	4,993.21	3
2	30.00	18.50	71.70	72.25	0.00	0.36	2.15	0.85	1.00	0.64	106.93	0.00	0.00	5,206.2	0.0	4,733.87	0.00	4,733.87	3
1	10.00	18.50	57.00	54.62	0.00	0.25	2.43	0.85	1.00	0.60	81.38	0.00	0.00	5,397.5	0.0	4,071.73	0.00	4,071.73	3
														36,857.8	0.0			43,014.41	

LoadCase Normal Ice — **73.61 mph Wind Normal To Face with Ice**

Allow Stress Inc: 1.333
Dead LF: 1.000
Wind LF: 1.000

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Rr	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	Eff Face
10	188.0	22.80	12.04	44.00	20.06	0.53	1.87	1.00	1.00	0.71	43.34	0.00	0.00	1,680.8	732.2	2,058.69	0.00	2,058.69	3
9	170.0	22.16	15.77	79.26	32.47	0.71	1.78	1.00	1.00	0.83	81.57	0.00	0.00	3,585.3	1,640.5	3,582.97	0.00	3,582.97	3
8	150.0	21.38	31.93	87.48	34.67	0.78	1.80	1.00	1.00	0.88	108.79	0.00	0.00	5,058.5	2,224.9	4,671.99	0.00	4,671.99	3
7	130.0	20.52	57.09	95.38	36.73	0.78	1.81	1.00	1.00	0.88	141.40	0.00	0.00	5,994.9	2,499.0	5,842.19	0.00	5,842.19	3
6	110.0	19.57	59.24	100.69	40.77	0.68	1.78	1.00	1.00	0.81	140.38	0.00	0.00	6,243.8	2,611.5	5,440.37	0.00	5,440.37	3
5	90.00	18.48	65.10	109.49	44.34	0.63	1.79	1.00	1.00	0.77	149.85	0.00	0.00	6,966.5	2,851.0	5,518.74	0.00	5,518.74	3
4	70.00	17.20	64.10	108.07	42.92	0.54	1.85	1.00	1.00	0.72	141.97	0.00	0.00	7,250.0	2,832.8	5,037.03	0.00	5,037.03	3
3	50.00	15.62	66.00	115.75	43.51	0.51	1.89	1.00	1.00	0.70	147.21	0.00	0.00	7,841.5	2,975.1	4,846.05	0.00	4,846.05	3
2	30.00	13.87	71.70	116.36	44.11	0.47	1.94	1.00	1.00	0.68	151.23	0.00	0.00	8,348.5	3,142.4	4,537.22	0.00	4,537.22	3
1	10.00	13.87	57.00	86.01	31.39	0.33	2.23	1.00	1.00	0.62	110.67	0.00	0.00	7,913.9	2,516.4	3,818.83	0.00	3,818.83	3
														60,883.7	24,025.8			45,354.07	

LoadCase 60 deg Ice — **73.61 mph Wind at 60 deg From Face with Ice**

Allow Stress Inc: 1.333
Dead LF: 1.000
Wind LF: 1.000

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Rr	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	Eff Face
10	188.0	22.80	12.04	44.00	20.06	0.53	1.87	0.80	1.00	0.71	40.93	0.00	0.00	1,680.8	732.2	1,944.33	0.00	1,944.33	3
9	170.0	22.16	15.77	79.26	32.47	0.71	1.78	0.80	1.00	0.83	78.42	0.00	0.00	3,585.3	1,640.5	3,444.43	0.00	3,444.43	3
8	150.0	21.38	31.93	87.48	34.67	0.78	1.80	0.80	1.00	0.88	102.40	0.00	0.00	5,058.5	2,224.9	4,397.77	0.00	4,397.77	3
7	130.0	20.52	57.09	95.38	36.73	0.78	1.81	0.80	1.00	0.88	129.98	0.00	0.00	5,994.9	2,499.0	5,370.40	0.00	5,370.40	3
6	110.0	19.57	59.24	100.69	40.77	0.68	1.78	0.80	1.00	0.81	128.53	0.00	0.00	6,243.8	2,611.5	4,981.20	0.00	4,981.20	3
5	90.00	18.48	65.10	109.49	44.34	0.63	1.79	0.80	1.00	0.77	136.83	0.00	0.00	6,966.5	2,851.0	5,039.19	0.00	5,039.19	3
4	70.00	17.20	64.10	108.07	42.92	0.54	1.85	0.80	1.00	0.72	129.15	0.00	0.00	7,250.0	2,832.8	4,582.15	0.00	4,582.15	3
3	50.00	15.62	66.00	115.75	43.51	0.51	1.89	0.80	1.00	0.70	134.01	0.00	0.00	7,841.5	2,975.1	4,411.52	0.00	4,411.52	3
2	30.00	13.87	71.70	116.36	44.11	0.47	1.94	0.80	1.00	0.68	136.89	0.00	0.00	8,348.5	3,142.4	4,106.96	0.00	4,106.96	3
1	10.00	13.87	57.00	86.01	31.39	0.33	2.23	0.80	1.00	0.62	99.27	0.00	0.00	7,913.9	2,516.4	3,425.44	0.00	3,425.44	3
														60,883.7	24,025.8			41,703.41	

Site Number: 302470
Location: Ansonia Wakelee, CT

Code: TIA/EIA-222 Rev F

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Gh : 1.12

Section Forces

LoadCase 90 deg Ice

73.61 mph Wind at 90 deg From Face with Ice

Allow Stress Inc: 1.333
Dead LF: 1.000
Wind LF: 1.000

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Rr	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	Eff Face
10	188.0	22.80	12.04	44.00	20.06	0.53	1.87	0.85	1.00	0.71	41.53	0.00	0.00	1,680.8	732.2	1,972.92	0.00	1,972.92	3
9	170.0	22.16	15.77	79.26	32.47	0.71	1.78	0.85	1.00	0.83	79.21	0.00	0.00	3,585.3	1,640.5	3,479.07	0.00	3,479.07	3
8	150.0	21.38	31.93	87.48	34.67	0.78	1.80	0.85	1.00	0.88	104.00	0.00	0.00	5,058.5	2,224.9	4,466.32	0.00	4,466.32	3
7	130.0	20.52	57.09	95.38	36.73	0.78	1.81	0.85	1.00	0.88	132.83	0.00	0.00	5,994.9	2,499.0	5,488.35	0.00	5,488.35	3
6	110.0	19.57	59.24	100.69	40.77	0.68	1.78	0.85	1.00	0.81	131.49	0.00	0.00	6,243.8	2,611.5	5,095.99	0.00	5,095.99	3
5	90.00	18.48	65.10	109.49	44.34	0.63	1.79	0.85	1.00	0.77	140.08	0.00	0.00	6,966.5	2,851.0	5,159.08	0.00	5,159.08	3
4	70.00	17.20	64.10	108.07	42.92	0.54	1.85	0.85	1.00	0.72	132.36	0.00	0.00	7,250.0	2,832.8	4,695.87	0.00	4,695.87	3
3	50.00	15.62	66.00	115.75	43.51	0.51	1.89	0.85	1.00	0.70	137.31	0.00	0.00	7,841.5	2,975.1	4,520.16	0.00	4,520.16	3
2	30.00	13.87	71.70	116.36	44.11	0.47	1.94	0.85	1.00	0.68	140.48	0.00	0.00	8,348.5	3,142.4	4,214.53	0.00	4,214.53	3
1	10.00	13.87	57.00	86.01	31.39	0.33	2.23	0.85	1.00	0.62	102.12	0.00	0.00	7,913.9	2,516.4	3,523.79	0.00	3,523.79	3
														60,883.7	24,025.8			42,616.08	

LoadCase Normal

50.00 mph Wind Normal To Face with No Ice

Allow Stress Inc: 1.333
Dead LF: 1.000
Wind LF: 1.000

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Rr	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	Eff Face
10	188.0	10.52	12.04	23.94	0.00	0.34	2.20	1.00	1.00	0.63	27.08	0.00	0.00	948.6	0.0	698.90	0.00	698.90	3
9	170.0	10.22	15.77	46.80	0.00	0.47	1.94	1.00	1.00	0.68	47.72	0.00	0.00	1,944.7	0.0	1,056.40	0.00	1,056.40	3
8	150.0	9.86	31.93	52.81	0.00	0.55	1.84	1.00	1.00	0.73	70.23	0.00	0.00	2,833.6	0.0	1,422.75	0.00	1,422.75	3
7	130.0	9.47	57.09	58.64	0.00	0.60	1.81	1.00	1.00	0.75	101.13	0.00	0.00	3,496.0	0.0	1,929.44	0.00	1,929.44	3
6	110.0	9.03	59.24	59.93	0.00	0.51	1.89	1.00	1.00	0.70	101.24	0.00	0.00	3,632.3	0.0	1,927.95	0.00	1,927.95	3
5	90.00	8.52	65.10	65.15	0.00	0.47	1.94	1.00	1.00	0.68	109.64	0.00	0.00	4,115.5	0.0	2,021.34	0.00	2,021.34	3
4	70.00	7.93	64.10	65.15	0.00	0.41	2.05	1.00	1.00	0.65	106.77	0.00	0.00	4,417.2	0.0	1,935.36	0.00	1,935.36	3
3	50.00	7.21	66.00	72.25	0.00	0.39	2.09	1.00	1.00	0.65	112.68	0.00	0.00	4,866.4	0.0	1,894.17	0.00	1,894.17	3
2	30.00	6.40	71.70	72.25	0.00	0.36	2.15	1.00	1.00	0.64	117.69	0.00	0.00	5,206.2	0.0	1,802.77	0.00	1,802.77	3
1	10.00	6.40	57.00	54.62	0.00	0.25	2.43	1.00	1.00	0.60	89.93	0.00	0.00	5,397.5	0.0	1,556.93	0.00	1,556.93	3
														36,857.8	0.0			16,246.01	

LoadCase 60 deg

50.00 mph Wind at 60 deg From Face with No Ice

Allow Stress Inc: 1.333
Dead LF: 1.000
Wind LF: 1.000

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Rr	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	Eff Face
10	188.0	10.52	12.04	23.94	0.00	0.34	2.20	0.80	1.00	0.63	24.67	0.00	0.00	948.6	0.0	636.77	0.00	636.77	3
9	170.0	10.22	15.77	46.80	0.00	0.47	1.94	0.80	1.00	0.68	44.57	0.00	0.00	1,944.7	0.0	986.58	0.00	986.58	3

Site Number: 302470
Location: Ansonia Wakelee, CT

Code: TIA/EIA-222 Rev F

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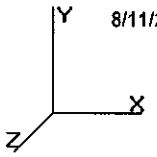

Gh : 1.12

Section Forces

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Rr	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	Eff Face
8	150.0	9.86	31.93	52.81	0.00	0.55	1.84	0.80	1.00	0.73	63.85	0.00	0.00	2,833.6	0.0	1,293.40	0.00	1,293.40	3
7	130.0	9.47	57.09	58.64	0.00	0.60	1.81	0.80	1.00	0.75	89.71	0.00	0.00	3,496.0	0.0	1,711.58	0.00	1,711.58	3
6	110.0	9.03	59.24	59.93	0.00	0.51	1.89	0.80	1.00	0.70	89.39	0.00	0.00	3,632.3	0.0	1,702.33	0.00	1,702.33	3
5	90.00	8.52	65.10	65.15	0.00	0.47	1.94	0.80	1.00	0.68	96.62	0.00	0.00	4,115.5	0.0	1,781.28	0.00	1,781.28	3
4	70.00	7.93	64.10	65.15	0.00	0.41	2.05	0.80	1.00	0.65	93.95	0.00	0.00	4,417.2	0.0	1,702.95	0.00	1,702.95	3
3	50.00	7.21	66.00	72.25	0.00	0.39	2.09	0.80	1.00	0.65	99.48	0.00	0.00	4,866.4	0.0	1,672.28	0.00	1,672.28	3
2	30.00	6.40	71.70	72.25	0.00	0.36	2.15	0.80	1.00	0.64	103.35	0.00	0.00	5,206.2	0.0	1,583.10	0.00	1,583.10	3
1	10.00	6.40	57.00	54.62	0.00	0.25	2.43	0.80	1.00	0.60	78.53	0.00	0.00	5,397.5	0.0	1,359.56	0.00	1,359.56	3
														36,857.8	0.0			14,429.83	

LoadCase 90 deg — **50.00 mph Wind at 90 deg From Face with No Ice**

Allow Stress Inc: 1.333
Dead LF: 1.000
Wind LF: 1.000

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Rr	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	Eff Face
10	188.0	10.52	12.04	23.94	0.00	0.34	2.20	0.85	1.00	0.63	25.27	0.00	0.00	948.6	0.0	652.30	0.00	652.30	3
9	170.0	10.22	15.77	46.80	0.00	0.47	1.94	0.85	1.00	0.68	45.36	0.00	0.00	1,944.7	0.0	1,004.04	0.00	1,004.04	3
8	150.0	9.86	31.93	52.81	0.00	0.55	1.84	0.85	1.00	0.73	65.44	0.00	0.00	2,833.6	0.0	1,325.74	0.00	1,325.74	3
7	130.0	9.47	57.09	58.64	0.00	0.60	1.81	0.85	1.00	0.75	92.56	0.00	0.00	3,496.0	0.0	1,766.05	0.00	1,766.05	3
6	110.0	9.03	59.24	59.93	0.00	0.51	1.89	0.85	1.00	0.70	92.36	0.00	0.00	3,632.3	0.0	1,758.74	0.00	1,758.74	3
5	90.00	8.52	65.10	65.15	0.00	0.47	1.94	0.85	1.00	0.68	99.87	0.00	0.00	4,115.5	0.0	1,841.29	0.00	1,841.29	3
4	70.00	7.93	64.10	65.15	0.00	0.41	2.05	0.85	1.00	0.65	97.15	0.00	0.00	4,417.2	0.0	1,761.05	0.00	1,761.05	3
3	50.00	7.21	66.00	72.25	0.00	0.39	2.09	0.85	1.00	0.65	102.78	0.00	0.00	4,866.4	0.0	1,727.75	0.00	1,727.75	3
2	30.00	6.40	71.70	72.25	0.00	0.36	2.15	0.85	1.00	0.64	106.93	0.00	0.00	5,206.2	0.0	1,638.02	0.00	1,638.02	3
1	10.00	6.40	57.00	54.62	0.00	0.25	2.43	0.85	1.00	0.60	81.38	0.00	0.00	5,397.5	0.0	1,408.90	0.00	1,408.90	3
														36,857.8	0.0			14,883.88	

Site Number: 302470
Location: Ansonia Wakelee, CT

Code: TIA/EIA-222 Rev F

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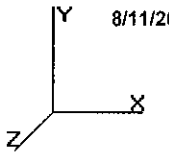

Tower Loading

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)	X Angle (deg)	Vert Ecc (ft)
194.0	KMW HB-X-WM-17-65-00T	3	15.90	0.650	0.50	20.84	1.040	0.50	0.000	0.00	0.000
194.0	Round Sector Frames	3	300.00	14.400	0.75	415.00	19.200	0.75	0.000	0.00	0.000
194.0	72" x 12" Panels	3	40.00	8.400	0.67	87.00	9.230	0.67	0.000	0.00	0.000
194.0	48" x 12" Panels	9	30.00	5.600	0.67	63.00	6.190	0.67	0.000	0.00	0.000
184.0	Round Sector Frames	3	300.00	14.400	0.75	415.00	19.200	0.75	0.000	0.00	0.000
184.0	Andrew DB950F65E-M	6	30.00	5.360	0.79	65.00	7.000	0.79	0.000	0.00	0.000
178.0	Flat Light Sector Frames	3	400.00	17.900	0.75	510.00	22.200	0.75	0.000	0.00	0.000
178.0	Decibel 948F85T2E-M	6	8.50	3.270	0.70	27.00	3.810	0.70	0.000	0.00	0.000
178.0	Decibel DB844H90E-XY	6	10.00	3.060	0.84	36.27	3.410	0.84	0.000	0.00	0.000
167.0	Round Sector Frames	3	300.00	14.400	0.75	415.00	19.200	0.75	0.000	0.00	0.000
167.0	Powerwave LGP21902	3	5.50	0.270	0.50	14.00	0.400	0.50	0.000	0.00	0.000
167.0	14" x 9" TTA	6	10.00	1.230	0.50	18.00	1.460	0.50	0.000	0.00	0.000
167.0	Powerwave 7770.00	3	35.00	5.941	0.75	67.75	6.597	0.75	0.000	0.00	0.000
167.0	CSS DUO1417-8686	6	42.50	6.588	0.82	85.01	7.204	0.82	0.000	0.00	0.000
157.0	Kathrein 742 213	3	22.00	5.140	0.78	47.15	5.850	0.82	0.000	0.00	0.000
148.0	Round Sector Frames	3	300.00	14.400	0.75	415.00	19.200	0.75	0.000	0.00	0.000
148.0	EMS RR90-17-02DP	6	18.00	4.360	0.72	40.00	4.990	0.72	0.000	0.00	0.000
130.0	Andrew VHLP2.5	1	47.60	8.430	0.90	60.00	10.000	0.90	0.000	0.00	0.000
130.0	Andrew VHLP1-23	1	14.00	0.680	0.90	20.00	1.000	0.90	0.000	0.00	0.000
125.0	Motorola PTP54600	2	12.10	2.040	1.00	23.50	2.330	1.00	0.000	0.00	0.000
124.0	Side Arm	1	200.00	2.000	1.00	260.00	3.000	1.00	0.000	0.00	0.000
124.0	GPS	1	7.00	1.000	1.00	15.00	1.300	1.00	0.000	0.00	0.000
104.0	Side Arms	2	200.00	2.000	1.00	260.00	3.000	1.00	0.000	0.00	0.000
104.0	GPS	2	7.00	1.000	1.00	15.00	1.300	1.00	0.000	0.00	0.000
82.00	Side Arm	1	200.00	2.000	1.00	260.00	3.000	1.00	0.000	0.00	0.000
82.00	10' Omni	1	10.00	3.000	1.00	25.00	4.000	1.00	0.000	0.00	5.000
76.00	Side Arm	1	200.00	2.000	1.00	260.00	3.000	1.00	0.000	0.00	0.000
76.00	GPS	1	7.00	1.000	1.00	15.00	1.300	1.00	0.000	0.00	0.000
	Totals	89	7263.00			10926.84			Number of Appurtenances : 28		

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Wind	Spread On Faces	Bundling Arrangement
8.00	194.0	1 1/4" Coax	12	1.55	0.63	75.00	3	Separate
8.00	193.9	Wave Guide	1	2.00	6.00	100.00	3	Separate
8.00	184.0	1 5/8" Coax	6	1.98	0.82	100.00	1	Separate
8.00	183.9	Wave Guide	1	2.00	6.00	100.00	1	Separate
8.00	178.0	1 5/8" Coax	12	1.98	0.82	33.30	3	Separate
8.00	167.0	1 1/4" Coax	12	1.55	0.63	75.00	2	Separate
8.00	166.9	Wave Guide	1	2.00	6.00	100.00	2	Separate
0.00	157.0	1 5/8" Coax	6	1.98	0.82	100.00	1	Separate
8.00	148.0	1 5/8" Coax	12	1.98	0.82	100.00	3	Flat
8.00	147.9	Wave Guide	1	2.00	6.00	100.00	3	Separate
8.00	130.0	1/2" Coax	2	0.63	0.15	0.00	3	Separate
8.00	125.0	1/4" Coax	2	0.34	0.06	100.00	3	Separate
8.00	124.0	1/2" Coax	1	0.63	0.15	0.00	3	Separate

Site Number: 302470
Location: Ansonia Wakelee, CT

Code: TIA/EIA-222 Rev F

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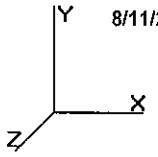

Tower Loading

8.00	104.0	1/2" Coax	2	0.63	0.15	100.00	3	Separate
8.00	82.00	1/2" Coax	1	0.63	0.15	100.00	2	Separate
8.00	76.00	1/2" Coax	1	0.63	0.15	100.00	1	Separate

Site Number: 302470
Location: Ansonia Wakelee, CT

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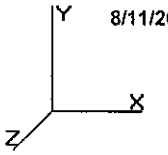

Force/Stress Summary

Section: 1 15N25 Bot Elev (ft): 0.00 Height (ft): 20.000

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	Fa (ksi)	Member Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PX - 8" DIA PIPE	-343.83	Normal Ice	10.02	100	100	100	41.7	34.1	436.62	0	0	0.00	0.00	78	Member X
HORIZ	0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 4X4X0.25	-10.69	90 deg Ice	23.68	50	75	50	178.7	6.2	12.09	1	1	12.37	17.40	88	Member Z

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PX - 8" DIA PIPE	286.79	60 deg No Ice	50	511.95	0	0	0.00	0.00	56	Member
HORIZ	0.00		0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 4X4X0.25	10.68	90 deg Ice	36	50.36	1	1	12.37	17.40	86	Bolt Shear

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	266.08	60 deg No Ice	369.03	72	8	1 A325
Top Compression	319.67	Normal Ice	0.00	0		
Bot Tension	294.52	60 deg No Ice	431.96	68	10	1" A354-BC
Bot Compression	350.59	Normal Ice	0.00	0		

Section: 2 14N46 Bot Elev (ft): 20.00 Height (ft): 20.000

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	Fa (ksi)	Member Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PSP - ROHN 8 EHS	-311.74	Normal Ice	10.02	100	100	100	41.0	34.2	338.01	0	0	0.00	0.00	92	Member X
HORIZ	0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 4X4X0.25	-10.23	90 deg No Ice	22.76	50	75	50	171.8	6.7	13.09	1	1	12.37	17.40	82	Bolt Shear

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PSP - ROHN 8 EHS	259.84	60 deg No Ice	50	394.76	0	0	0.00	0.00	65	Member
HORIZ	0.00		0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 4X4X0.25	10.13	90 deg Ice	36	50.36	1	1	12.37	17.40	81	Bolt Shear

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	237.48	60 deg No Ice	369.03	64	8	1 A325
Top Compression	285.62	Normal Ice	0.00	0		
Bot Tension	266.08	60 deg No Ice	369.03	72	8	1 A325
Bot Compression	319.67	Normal Ice	0.00	0		

Site Number: 302470
Location: Ansonia Wakelee, CT

Code: TIA/EIA-222 Rev F

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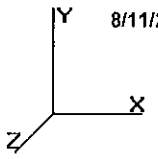

Force/Stress Summary

Section: 3 13N88 Bot Elev (ft): 40.00 Height (ft): 20.000

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	Fa (ksi)	Member Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PSP - ROHN 8 EHS	-276.62	Normal Ice	10.02	100	100	100	41.0	34.2	338.01	0	0	0.00	0.00	81	Member X
HORIZ	0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 3.5X3.5X0.25	-9.68	90 deg No Ice	20.94	50	75	50	181.1	6.1	10.26	1	1	12.37	17.40	94	Member Z

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PSP - ROHN 8 EHS	231.30	60 deg No Ice	50	394.76	0	0	0.00	0.00	58	Member
HORIZ	0.00		0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 3.5X3.5X0.25	9.46	90 deg No Ice	36	43.12	1	1	12.37	17.40	76	Bolt Shear

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	208.26	60 deg No Ice	369.03	56	8	1 A325
Top Compression	249.91	Normal Ice	0.00	0		
Bot Tension	237.48	60 deg No Ice	369.03	64	8	1 A325
Bot Compression	285.62	Normal Ice	0.00	0		

Section: 4 12N50 Bot Elev (ft): 60.00 Height (ft): 20.000

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	Fa (ksi)	Member Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PX - 6" DIA PIPE	-240.61	Normal Ice	10.02	100	100	100	54.9	31.4	263.96	0	0	0.00	0.00	91	Member X
HORIZ	0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 3.5X3.5X0.25	-9.12	90 deg No Ice	19.17	50	75	50	165.8	7.2	12.24	1	1	12.37	17.40	74	Member Z

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PX - 6" DIA PIPE	201.81	60 deg No Ice	50	335.97	0	0	0.00	0.00	60	Member
HORIZ	0.00		0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 3.5X3.5X0.25	8.92	90 deg No Ice	36	43.12	1	1	12.37	17.40	72	Bolt Shear

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	177.75	60 deg No Ice	276.77	64	6	1 A325
Top Compression	212.69	Normal Ice	0.00	0		
Bot Tension	208.26	60 deg No Ice	369.03	56	8	1 A325
Bot Compression	249.91	Normal Ice	0.00	0		

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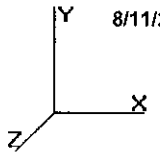

Force/Stress Summary

Section: 5 11N223 Bot Elev (ft): 80.00 Height (ft): 20.000

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	Fa (ksi)	Member Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PSP - ROHN 6 EHS	-206.08	Normal Ice	6.68	100	100	100	36.0	35.2	235.97	0	0	0.00	0.00	87	Member X
HORIZ	0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 3X3X0.25	-7.65	90 deg Ice	15.94	50	75	50	161.6	7.6	10.97	1	1	12.37	17.40	69	Member Z

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PSP - ROHN 6 EHS	173.96	60 deg No Ice	50	268.37	0	0	0.00	0.00	64	Member
HORIZ	0.00		0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 3X3X0.25	7.55	90 deg Ice	36	35.87	1	1	12.37	17.40	61	Bolt Shear

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	147.41	60 deg No Ice	276.77	53	6	1 A325
Top Compression	174.52	Normal Ice	0.00	0		
Bot Tension	177.75	60 deg No Ice	276.77	64	6	1 A325
Bot Compression	212.69	Normal Ice	0.00	0		

Section: 6 10N152 Bot Elev (ft): 100.0 Height (ft): 20.000

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	Fa (ksi)	Member Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PX - 5" DIA PIPE	-168.10	Normal Ice	6.68	100	100	100	43.6	33.8	206.28	0	0	0.00	0.00	81	Member X
HORIZ	0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 2.5X2.5X0.25	-7.12	90 deg Ice	14.11	50	75	50	172.5	6.7	7.96	1	1	8.53	14.50	89	Member Z

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PX - 5" DIA PIPE	142.87	60 deg No Ice	50	244.38	0	0	0.00	0.00	58	Member
HORIZ	0.00		0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 2.5X2.5X0.25	6.96	90 deg Ice	36	29.52	1	1	8.53	14.50	81	Bolt Shear

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	115.57	60 deg No Ice	184.51	63	4	1 A325
Top Compression	135.63	Normal Ice	0.00	0		
Bot Tension	147.41	60 deg No Ice	276.77	53	6	1 A325
Bot Compression	174.52	Normal Ice	0.00	0		

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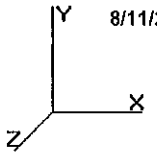

Force/Stress Summary

Section: 7 9N216 Bot Elev (ft): 120.0 Height (ft): 20.000

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	Fa (ksi)	Member Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PX - 5" DIA PIPE	-128.88	Normal Ice	6.68	100	100	100	43.6	33.8	206.28	0	0	0.00	0.00	62	Member X
HORIZ	0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 2.5X2.5X0.25	-6.62	90 deg Ice	12.35	50	75	50	151.0	8.7	10.40	1	1	8.53	14.50	77	Bolt Shear

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PX - 5" DIA PIPE	110.57	60 deg No Ice	50	244.38	0	0	0.00	0.00	45	Member
HORIZ	0.00		0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 2.5X2.5X0.25	6.49	90 deg Ice	36	29.52	1	1	8.53	14.50	76	Bolt Shear

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	81.79	60 deg No Ice	184.51	44	4	1 A325
Top Compression	95.32	Normal Ice	0.00	0		
Bot Tension	115.57	60 deg No Ice	184.51	63	4	1 A325
Bot Compression	135.63	Normal Ice	0.00	0		

Section: 8 A780252 Bot Elev (ft): 140.0 Height (ft): 20.000

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	Fa (ksi)	Member Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PX - 4" DIA PIPE	-90.26	Normal Ice	5.01	100	100	100	40.6	34.3	151.37	0	0	0.00	0.00	59	Member X
HORIZ SAE - 2X2X0.25	-0.14	60 deg No Ice	6.653	100	100	100	204.2	4.8	4.49	1	1	8.53	14.50	3	Member Z
DIAG SAE - 2X2X0.25	-5.33	90 deg Ice	9.811	50	75	50	150.6	8.8	8.26	1	1	8.53	14.50	64	Member Z

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PX - 4" DIA PIPE	78.09	60 deg No Ice	50	176.38	0	0	0.00	0.00	44	Member
HORIZ SAE - 2X2X0.25	0.08	Normal No Ice	36	22.27	1	1	8.53	14.50	0	Bolt Shear
DIAG SAE - 2X2X0.25	5.31	90 deg Ice	36	22.27	1	1	8.53	14.50	62	Bolt Shear

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	47.04	60 deg No Ice	141.11	33	4	7/8 A325
Top Compression	54.79	Normal Ice	0.00	0		
Bot Tension	81.79	60 deg No Ice	184.51	44	4	1 A325
Bot Compression	95.32	Normal Ice	0.00	0		

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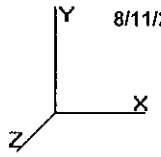

Force/Stress Summary

Section: 9 A780178 Bot Elev (ft): 160.0 Height (ft): 20.000

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	Fa (ksi)	Member Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PX - 3" DIA PIPE	-48.62	Normal No Ice	4.00	100	100	100	42.1	34.0	102.80	0	0	0.00	0.00	47	Member X
HORIZ	0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 2X2X0.1875	-5.76	90 deg No Ice	7.763	50	75	50	118.7	14.0	9.98	2	1	17.06	21.75	57	Member Z

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PX - 3" DIA PIPE	42.32	60 deg No Ice	50	120.79	0	0	0.00	0.00	35	Member
HORIZ	0.00		0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 2X2X0.1875	5.68	90 deg No Ice	36	17.00	2	1	17.06	21.75	33	Member

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	9.35	60 deg No Ice	103.67	9	4	3/4 A325
Top Compression	12.39	Normal Ice	0.00	0		
Bot Tension	47.04	60 deg No Ice	141.11	33	4	7/8 A325
Bot Compression	54.79	Normal Ice	0.00	0		

Section: 10 A780178 Bot Elev (ft): 180.0 Height (ft): 16.000

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	Fa (ksi)	Member Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PST - 2-1/2" DIA PIP	-9.46	Normal No Ice	4.00	100	100	100	50.7	32.3	55.08	0	0	0.00	0.00	17	Member X
HORIZ SAE - 1.75X1.75X0.18	-0.36	Normal No Ice	6.653	100	100	100	232.7	3.7	2.28	1	1	8.53	10.87	15	Member Z
DIAG SAE - 1.75X1.75X0.18	-2.60	90 deg No Ice	7.763	50	75	50	135.8	10.8	6.71	1	1	8.53	10.87	38	Member Z

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PST - 2-1/2" DIA PIP	7.07	60 deg No Ice	50	68.15	0	0	0.00	0.00	10	Member
HORIZ SAE - 1.75X1.75X0.18	0.36	60 deg No Ice	36	14.27	1	1	8.53	10.87	4	Bolt Shear
DIAG SAE - 1.75X1.75X0.18	2.58	90 deg No Ice	36	14.27	1	1	8.53	10.87	30	Bolt Shear

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	0.00		0.00	0		
Top Compression	0.14	60 deg Ice	0.00	0		
Bot Tension	9.35	60 deg No Ice	103.67	9	4	3/4 A325
Bot Compression	12.39	Normal Ice	0.00	0		

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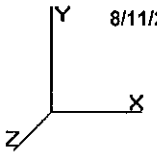

Support Forces Summary

Load Case	Node	FX (kip)	FY (kip)	FZ (kip)
90 deg	1b	-8.11	-79.02	-3.90
	1a	-9.80	108.43	4.89
	1	-1.35	14.71	-0.99
60 deg	1b	-8.88	-91.52	-5.13
	1a	-6.28	67.81	2.33
	1	-1.12	67.82	-6.60
Normal	1b	-3.81	-42.42	-3.69
	1a	3.81	-42.42	-3.69
	1	0.00	128.96	-13.24
90 deg Ice	1b	-27.08	-248.00	-13.53
	1a	-23.68	295.87	11.67
	1	-3.56	23.94	1.86
60 deg Ice	1b	-29.53	-286.01	-17.05
	1a	-13.76	178.89	4.52
	1	-2.97	178.92	-14.18
Normal Ice	1b	-14.78	-139.20	-12.41
	1a	14.78	-139.20	-12.41
	1	0.00	350.20	-32.24
90 deg No Ice	1b	-25.17	-256.43	-12.22
	1a	-26.62	285.84	13.18
	1	-3.90	14.71	-0.95
60 deg No Ice	1b	-27.39	-292.59	-15.81
	1a	-16.47	168.34	5.79
	1	-3.22	168.37	-17.17
Normal No Ice	1b	-12.69	-150.55	-11.66
	1a	12.69	-150.55	-11.66
	1	0.00	345.22	-36.29

(-) = Uplift (+) = Down

Max Uplift:	292.59 (kip)	Moment:	6,583.31 (ft-kip)	Normal No Ice
Max Down:	350.20 (kip)	Total Down:	44.12 (kip)	
Max Shear:	36.29 (kip)	Total Shear:	59.62 (kip)	

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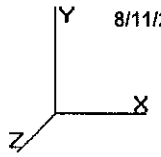

Deflections and Rotations

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)
50.00 mph Wind Normal To Face with No Ice	80.00	0.0971	0.0061	0.1398
	106.67	0.1752	0.0089	0.1983
	126.67	0.2521	0.0111	0.2408
	133.33	0.2810	0.0117	0.2544
	150.00	0.3604	0.0136	0.2934
	155.00	0.3866	0.0142	0.3037
	168.00	0.4596	0.0145	0.3376
	176.00	0.5073	0.0142	0.3460
	184.00	0.5558	0.0139	0.3510
	192.00	0.6047	0.0135	0.3517
50.00 mph Wind at 60 deg From Face with No Ice	80.00	0.0904	0.0067	0.1298
	106.67	0.1639	0.0094	0.1869
	126.67	0.2367	0.0115	0.2282
	133.33	0.2640	0.0122	0.2412
	150.00	0.3397	0.0140	0.2791
	155.00	0.3645	0.0146	0.2891
	168.00	0.4341	0.0148	0.3220
	176.00	0.4797	0.0145	0.3303
	184.00	0.5261	0.0142	0.3352
	192.00	0.5729	0.0138	0.3361
50.00 mph Wind at 90 deg From Face with No Ice	80.00	0.0919	0.0044	0.1329
	106.67	0.1667	0.0061	0.1897
	126.67	0.2404	0.0073	0.2313
	133.33	0.2682	0.0076	0.2446
	150.00	0.3448	0.0087	0.2823
	155.00	0.3699	0.0090	0.2930
	168.00	0.4405	0.0092	0.3262
	176.00	0.4866	0.0090	0.3346
	184.00	0.5336	0.0087	0.3397
	192.00	0.5808	0.0085	0.3412
73.61 mph Wind Normal To Face with Ice	80.00	0.2774	0.0177	0.4036
	106.67	0.5041	0.0262	0.5753
	126.67	0.7274	0.0324	0.6992
	133.33	0.8111	0.0344	0.7384
	150.00	1.0423	0.0397	0.8498
	155.00	1.1173	0.0415	0.8790
	168.00	1.3292	0.0425	0.9746
	176.00	1.4670	0.0420	0.9976
	184.00	1.6069	0.0412	1.0109
	192.00	1.7477	0.0407	1.0128
73.61 mph Wind at 60 deg From Face with Ice	80.00	0.2664	0.0200	0.3835
	106.67	0.4834	0.0285	0.5524
	126.67	0.6980	0.0346	0.6738
	133.33	0.7788	0.0366	0.7118
	150.00	1.0013	0.0420	0.8212
	155.00	1.0744	0.0437	0.8497
	168.00	1.2784	0.0447	0.9437
	176.00	1.4118	0.0441	0.9666

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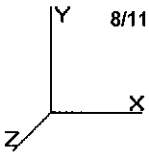

	184.00	1.5473	0.0433	0.9798
	192.00	1.6838	0.0426	0.9818
73.61 mph Wind at 90 deg From Face with Ice	80.00	0.2689	0.0132	0.3901
	106.67	0.4883	0.0181	0.5580
	126.67	0.7051	0.0217	0.6799
	133.33	0.7866	0.0228	0.7184
	150.00	1.0113	0.0260	0.8272
	155.00	1.0848	0.0269	0.8577
	168.00	1.2908	0.0275	0.9521
	176.00	1.4253	0.0271	0.9752
	184.00	1.5619	0.0266	0.9887
	192.00	1.6994	0.0261	0.9927
85.00 mph Wind Normal To Face with No Ice	80.00	0.2805	0.0177	0.4035
	106.67	0.5065	0.0262	0.5734
	126.67	0.7288	0.0325	0.6966
	133.33	0.8124	0.0345	0.7359
	150.00	1.0424	0.0400	0.8484
	155.00	1.1178	0.0419	0.8783
	168.00	1.3296	0.0430	0.9764
	176.00	1.4677	0.0425	1.0007
	184.00	1.6082	0.0417	1.0152
	192.00	1.7496	0.0412	1.0175
85.00 mph Wind at 60 deg From Face with No Ice	80.00	0.2617	0.0197	0.3764
	106.67	0.4748	0.0281	0.5410
	126.67	0.6853	0.0342	0.6604
	133.33	0.7645	0.0362	0.6983
	150.00	0.9833	0.0418	0.8080
	155.00	1.0553	0.0436	0.8370
	168.00	1.2567	0.0447	0.9326
	176.00	1.3886	0.0441	0.9565
	184.00	1.5228	0.0433	0.9707
	192.00	1.6580	0.0426	0.9730
85.00 mph Wind at 90 deg From Face with No Ice	80.00	0.2659	0.0131	0.3846
	106.67	0.4823	0.0180	0.5490
	126.67	0.6958	0.0215	0.6692
	133.33	0.7761	0.0227	0.7076
	150.00	0.9978	0.0260	0.8168
	155.00	1.0705	0.0270	0.8479
	168.00	1.2747	0.0276	0.9441
	176.00	1.4081	0.0272	0.9684
	184.00	1.5439	0.0267	0.9830
	192.00	1.6807	0.0262	0.9875
		0.0000	0.0000	0.0000

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

September 15, 2008

The Honorable James T. DellaVolpe
Mayor
City of Ansonia
City Hall
253 Main Street
Ansonia, CT 06401-1866

RE: **EM-POCKET-002-080912** – Youghiogheny Communications-Northeast, LLC d/b/a Pocket Communications notice of intent to modify an existing telecommunications facility located at 401 Wakelee Avenue, Ansonia, Connecticut.

Dear Mayor DellaVolpe:

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 September 29, 2008.

Thank you for your cooperation and consideration.

Very truly yours,

S. Derek Phelps
Executive Director

SDP/jb

Enclosure: Notice of Intent

c: Peter Crabtree, Zoning Enforcement Officer, City of Ansonia
Carrie L. Larson, Esq., Pullman & Comley, LLC

City of Ansonia
OFFICE OF THE MAYOR
CITY HALL
253 MAIN STREET
ANSONIA, CONNECTICUT 06401

James Della Volpe
Mayor

Office: (203) 736-5900
Fax: (203) 734-3853
E-mail: mayordellavolpe@snet.net

September 19, 2008

S. Derek Phelps
Executive Director
State of Connecticut
Connecticut Siting Council
Ten Franklin Square
New Britain CT 06051

Re: EM-POCKET-002-080912-Youghiogheny Communications-Northeast, LLC d/b/a Pocket Communications notice of intent to modify an existing telecommunications facility located at 401 Wakelee Avenue, Ansonia, Connecticut.

Dear Director Phelps:

Thank you for your letter of September 15, 2008, with respect to the above captioned matter regarding a modification request of an existing telecommunications facility located in the City of Ansonia.

As you know, the existing telecommunication facility is located on property owned by the City of Ansonia. The City of Ansonia currently has a lease with American Tower which currently operates the tower.

Please be advised that my office, on behalf of the City of Ansonia, has no objection to this request being submitted by Pocket Communications based upon their petition filed with your council on September 11, 2008.

Thank you for your attention to this matter.

Very truly yours,

J. Della Volpe

Mayor James Della Volpe

Cc: Attorney Carrie L. Larson

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

October 14, 2008

Carrie L. Larson, Esq.
Pullman & Comley LLC
90 State House Square
Hartford, CT 06103-3702

RE: **EM-POCKET-002-080912** – Youghiogheny Communications-Northeast, LLC d/b/a Pocket Communications notice of intent to modify an existing telecommunications facility located at 401 Wakelee Avenue, Ansonia, Connecticut.

Dear Attorney Larson:

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 applicant shall take steps to reduce the post-construction foundation rating to not more than 100 percent; and
- A signed letter from a Professional Engineer duly licensed in the State of Connecticut shall be provided to the Council to certify that the post-construction foundation rating of not more than 100 percent has been achieved.

The proposed modifications are to be implemented as specified here and in your notice dated September 11, 2008, 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/jb

c: The Honorable James T. DellaVolpe, Mayor, City of Ansonia
Peter Crabtree, Zoning Enforcement Officer, City of Ansonia
American Tower

City of Ansonia
OFFICE OF THE MAYOR
CITY HALL
253 MAIN STREET
ANSONIA, CONNECTICUT 06401

James Della Volpe
Mayor

Office: (203) 736-5900
Fax: (203) 734-3853
E-mail: jdellavolpe@cityofansonia.com

March 30, 2009

S. Derek Phelps
Executive Director
State of Connecticut
Connecticut Siting Council
Ten Franklin Square
New Britain CT 06051

ORIGINAL

Re: EM-POCKET-002-080912-Youghiogheny Communications-Northeast, LLC d/b/a Pocket Communications notice of intent to modify an existing telecommunications facility located at 401 Wakelee Avenue, Ansonia, Connecticut.

Dear Director Phelps:

Please be advised that the City of Ansonia has no objection to the modification of the existing telecommunication facility located at 401 Wakelee Avenue, Ansonia, Connecticut.

Thank you for your attention to this matter.

Very truly yours,

J. Della Volpe

James Della Volpe

Cc: Mark Richard UMTS Project Manager
T-Mobile USA, Inc.

PULLMAN
&COMLEY LLC
ATTORNEYS

ORIGINAL

CARRIE L. LARSON
90 State House Square
Hartford, CT 06103-3702
p (860) 424-4312
f (860) 424-4370
clarson@pullcom.com

October 25, 2010

RECEIVED
OCT 25 2010
CONNECTICUT
SITING COUNCIL

VIA FACSIMILE (860-827-2950) and ELECTRONIC MAIL

Linda Roberts, Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Re: Pocket Communications List of Exempt Modification and Petition Application Sites With Subsequent Filings and Structural Improvements

Dear Ms. Roberts:

Please be advised that Pullman & Comley, LLC represents Youghiogheny Communications-Northeast, LLC, doing business as Pocket Communications ("Pocket") in matters before the Connecticut Siting Council ("Council"). As you know, Pocket is currently in the process of transferring its assets to Metro PCS. Pocket hereby submits a list below of sites for which it has filed applications and received conditional approvals from the Council and for which subsequent applications have been filed by other carriers. In researching these sites, Pocket has determined that the subsequent filings all depict Pocket's installation, have satisfied the Council in terms of the sites structural integrity or otherwise required the subsequent applicant to provide the required information. The list below shows Pocket's Council filing number followed by the number of the subsequent filing by another carrier.

Pocket CSC Filing Number		Subsequent CSC Filing Number
EM-POCKET-094-080922		EM-CING-094-090609
EM-POCKET-002-080912		EM-CLEARWIRE-002-100504
EM-POCKET-084-081208B		EM-CLEARWIRE-084-100504
EM-POCKET-007-081008		EM-T-MOBILE-007-090406
EM-POCKET-017-080924		EM-T-MOBILE-017-100326
EM-POCKET-064-090720		PETITION NO. 920 - The Clearwire Corporation
EM-POCKET-060-080922		EM-CING-060-081218
EM-POCKET-167-080926		EM-VER-167-100222
EM-POCKET-066-081208		EM-CING-066-090420

PULLMAN
&COMLEY LLC
ATTORNEYS

Pocket CSC Filing Number		Subsequent CSC Filing Number
EM-POCKET-162-081223		EM-CING-162-090521
EM-POCKET-082-081023		EM-T-MOBILE-082-100611
EM-POCKET-025-090123		EM-VER-151-100107
PETITION NO. 878 - Youghiogheny Communications-Northeast, LLC d/b/a Pocket Communications		EM-VER-156-091218
EM-POCKET-062-081211		EM-CLEARWIRE-062-091023
PETITION NO. 879 - Youghiogheny Communications-Northeast, LLC d/b/a Pocket Communications		EM-VER-101-100107
EM-POCKET-119-080910		EM-T-MOBILE-119-090406
EM-POCKET-054-081110		TS-CLEARWIRE-054-100916
EM-POCKET-132-081016		EM-T-MOBILE-132-090406
EM-POCKET-052-080911		EM-VER-052-100201
EM-POCKET-107-080919A		EM-VER-107-100107
EM-POCKET-167-081021		EM-VER-167-100111
EM-POCKET-084-090415		EM-T-MOBILE-084-100628
EM-POCKET-084-090610		EM-VER-084-100107
PETITION NO. 887 - Youghiogheny Communications-Northeast, LLC d/b/a Pocket Communication		EM-CLEARWIRE-014-091016
EM-POCKET-012-081002A		EM-CLEARWIRE-012-100722
EM-POCKET-156-090109		EM-T-MOBILE-156-090122
EM-POCKET-132-081119		TS-CLEARWIRE-132-100916
EM-POCKET-119-081205		EM-VER-119-100504

As a result of these subsequent filings, Pocket believes that the conditions on its approvals have been satisfied or these subsequent approvals by your office now places the burden on those subsequent applicants to provide additional information and relieves Pocket of such responsibility. Pocket requests confirmation from your office verifying that this is the case. Please let us know if you have any questions about the enclosed information or if we can be of any further assistance in this matter.

Respectfully Submitted,

Carrie L. Larson