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 1, 2011

Douglas L. Culp, Real Estate Consultant
New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: **EM-CING-014-110314** - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 4 Beaver Road, Branford, Connecticut.

Dear Mr. Culp:

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:

- Any deviation from the proposed modification as specified in this notice and supporting materials with Council shall render this acknowledgement invalid;
- Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- Not less than 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration;

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated March 11, 2011. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

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

Very truly yours,

Linda Roberts

Linda Roberts
Executive Director

LR/CDM/laf

c: The Honorable Anthony "Unk" DaRos, First Selectman, Town of Branford
Diana Ross, Inland Wetland Enforcement Officer, Town of Branford
Justine K. Gillen, Zoning Enforcement Officer, Town of Branford
American Tower Corporation

G:\EM\CINGULAR\BRANFORD\dc040111BeaverRd.DOC

CSC
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Phone: (860) 827-2935 Fax: (860) 827-2950
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Daniel F. Caruso
Chairman

March 17, 2011

The Honorable Anthony "Unk" DaRos
First Selectman
Town of Branford
Town Hall
1019 Main Street
P. O. Box 150
Branford, CT 06405-0150

RE: **EM-CING-014-110314** - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 4 Beaver Road, Branford, Connecticut.

Dear First Selectman DaRos:

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 March 31, 2011.

Thank you for your cooperation and consideration.

Very truly yours,

Linda Roberts MAB

Linda Roberts
Executive Director

LR/jbw

Enclosure: Notice of Intent

c: Diana Ross, Inland Wetland Enforcement Officer, Town of Branford
Justine K. Gillen, Zoning Enforcement Officer, Town of Branford

EM-CING-014-110314

New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 463-5511
Fax: (860) 513-7190

Douglas L. Culp
Real Estate Consultant

HAND DELIVERED

March 11, 2011

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

Re: New Cingular Wireless PCS, LLC notice of intent to modify an existing tele-communications facility located at 4 Beaver Road Branford, CT (owner American Tower)

Dear Ms. Roberts:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System ("UMTS") and/or Long Term Evolution ("LTE") capabilities, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC ("AT&T") plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the chief elected official of the municipality in which the affected cell site is located.

UMTS technology offers services to mobile computer and phone users anywhere in the world. Based on the Global System for Mobile ("GSM") communication standard, UMTS is the planned worldwide standard for mobile users. UMTS, fully implemented, gives computer and phone user's high-speed access to the Internet as they travel. They have the same capabilities even when they roam, through both terrestrial wireless and satellite transmissions.

LTE is a new high-performance air interface for cellular mobile communications, designed to increase the capacity and speed of mobile telephone networks.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in AT&T's operations at the site. Also included is documentation of the structural sufficiency of the tower to accommodate the revised antenna configuration.

The changes to the facility do not constitute modifications as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

1. The height of the overall structure will be unaffected.

2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound other than some enlarged equipment pads as may be noted in the attachments.

3. The proposed changes will not increase the noise level at the existing facility by six decibels or more.

4. Radio frequency power density may increase due to use of one or more GSM channel for UMTS transmissions. Moreover, LTE will utilize additional radio frequencies newly-licensed by the FCC for cellular mobile communications. However, the changes will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons, AT&T respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 463-5511 with questions concerning this matter. Thank you for your consideration.

Sincerely,

Douglas L. Culp
Real Estate Consultant

Attachments

NEW CINGULAR WIRELESS PCS, LLC
Equipment Modification

4 Beaver Road
Site Number 2175
Exempt Mods 9/08

Tower Owner/Manager: American Tower

Equipment configuration: Monopole

Current and/or approved: Six PowerWave 7770 antennas @ 113 ft
Six TMA's and six diplexers @ 113 ft
Twelve runs 1 5/8" inch coax to 113 ft
Equipment Shelter

Planned Modifications:

Retain existing antennas and TMA's
Install three KMW14-65 antennas or equivalent @ 113 ft
Install six Ericsson RRUS 11 - remote radio heads @ 113 ft
Install one surge protector @ 113 ft
Install one fiber and two DC power cables to 113 ft

Power Density:

Worst-case calculations for existing wireless operations at the site, using standard parameters for other carriers, indicate a radio frequency electromagnetic radiation power density, measured at the tower base, of approximately 17.4 % of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density following proposed modifications would be approximately 20.3 % of the standard.

Existing

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm^2)	Standard Limits (mW/cm^2)	Percent of Limit
Other Users							9.71
AT&T UMTS	113	850 Band	1	500	0.0141	0.5667	2.48
AT&T GSM	113	1900 Band	2	427	0.0240	1.0000	2.40
AT&T GSM	113	880 - 894	2	296	0.0167	0.5867	2.84
Total							**17.4%**

* Data for other users are from Siting Council records.

Proposed

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm^2)	Standard Limits (mW/cm^2)	Percent of Limit
Other Users							9.71
AT&T UMTS	113	850 Band	1	500	0.0141	0.5567	2.53
AT&T GSM	113	1900 Band	2	427	0.0240	1.0000	2.40
AT&T GSM	113	880 - 894	2	296	0.0167	0.5867	2.84
AT&T LTE	113	740 -746	1	500	0.0141	0.4933	2.85
Total							**20.3%**

* Data for other users are from Siting Council records.

Structural information:

The attached structural analysis demonstrates that the tower and foundation have adequate structural capacity to accommodate the proposed modifications (American Tower, Dated Feb 14, 2011).

PROJECT INFORMATION

SCOPE OF WORK:	UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS
SITE ADDRESS:	4 BEAVER RD. BRANFORD, CT 06405
LATITUDE:	41.2802 N 41° 16' 48.72" N
LONGITUDE:	-72.8418 W -72° 50' 30.48" W
JURISDICTION:	NATIONAL, STATE & LOCAL CODES OR ORDINANCES
CURRENT USE:	TELECOMMUNICATIONS FACILITY
PROPOSED USE:	TELECOMMUNICATIONS FACILITY
NOC#	866-915-5600

SITE NUMBER: CT2175
SITE NAME: WEST BRANFORD

DRAWING INDEX

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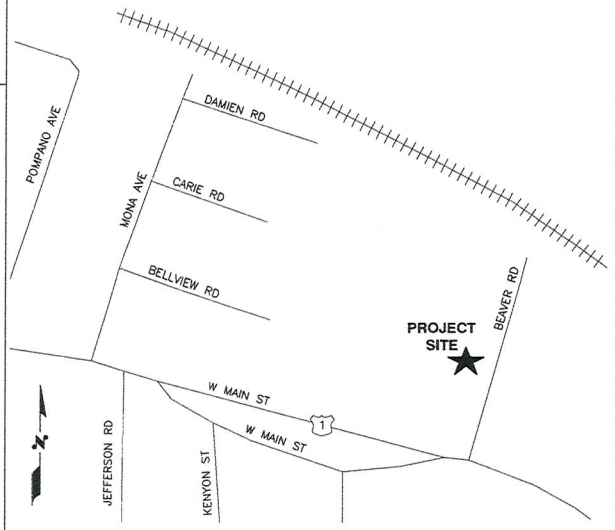
VICINITY MAP

DIRECTION TO SITE:
START AT 500 ENTERPRISE DR, ROCKY HILL GOING TOWARD CAPITOL BLVD. 0.4 MI TURN LEFT ONTO CAPITOL BLVD. 0.3 MI TURN LEFT ONTO WEST ST. 0.3 MI MERGE ONTO I-91 S VIA THE RAMP ON THE LEFT TOWARD NEW HAVEN. 29.0 MI MERGE ONTO I-95 N/GOVERNOR JOHN DAVIS LODGE TURNPIKE VIA THE EXIT ON THE LEFT TOWARD NEW LONDON. 2.2 MI TAKE THE FRONTAGE RD EXIT, EXIT 51, TOWARD EAST HAVEN/US-1. 0.1 MI STAY STRAIGHT TO GO ONTO FRONTAGE RD/SALTONSTALL PKWY. CONTINUE TO FOLLOW SALTONSTALL PKWY. 1.3 MI TURN SLIGHT LEFT ONTO MAIN ST/US-1 S. 1.1 MI TURN LEFT ONTO BEAVER RD. 0.0 MI END AT 4 BEAVER RD BRANFORD, CT 06405.



GENERAL NOTES

1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTT
2. ƆA REQUIREMENTS.
3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

CALL
BEFORE YOU DIG
CALL TOLL FREE 800-922-4455

UNDERGROUND SERVICE ALERT

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

SAI communications
22 KEEWAYDIN DRIVE
SALEM, NH 03079

SITE NUMBER: CT2175
SITE NAME: WEST BRANFORD
4 BEAVER RD.
BRANFORD, CT 06405
NEW LONDON COUNTY

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

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	01/25/11	ISSUED FOR CONSTRUCTION	JG	DC	DPH
0	01/11/11	ISSUED FOR REVIEW	JG	DC	DPH

SCALE: AS SHOWN DESIGNED BY: DC DRAWN BY: JG

DANIEL P. HAMM — No. 24178 — LICENSED PROFESSIONAL ENGINEER

AT&T

TITLE SHEET (LTE)

JOB NUMBER	DRAWING NUMBER	REV
2175.01	T-1	1

GROUNDING NOTES

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

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

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

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

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

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

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

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

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

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

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

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

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.

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

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

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

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

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

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

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

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

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

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

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION;

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

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

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

ABBREVIATIONS

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

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

SAI communications
22 KEEWAYDIN DRIVE
SALEM, NH 03079

SITE NUMBER: CT2175
SITE NAME: WEST BRANFORD
4 BEAVER RD.
BRANFORD, CT 06405
NEW LONDON COUNTY

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

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	01/25/11	ISSUED FOR CONSTRUCTION	JG	DC	DPH
0	01/11/11	ISSUED FOR REVIEW	JG	DC	DPH

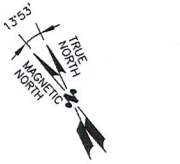
SCALE: AS SHOWN | DESIGNED BY: DC | DRAWN BY: JG

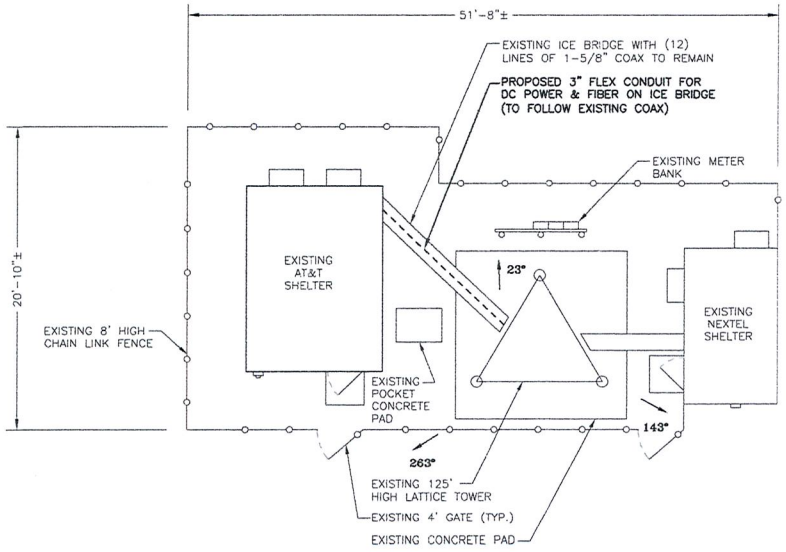
STATE OF CONNECTICUT DANIEL P. HAMM No.24178 LICENSED PROFESSIONAL ENGINEER

AT&T

GENERAL NOTES (LTE)

JOB NUMBER	DRAWING NUMBER	REV
2175.01	GN-1	1

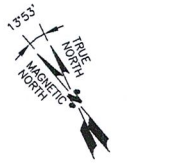


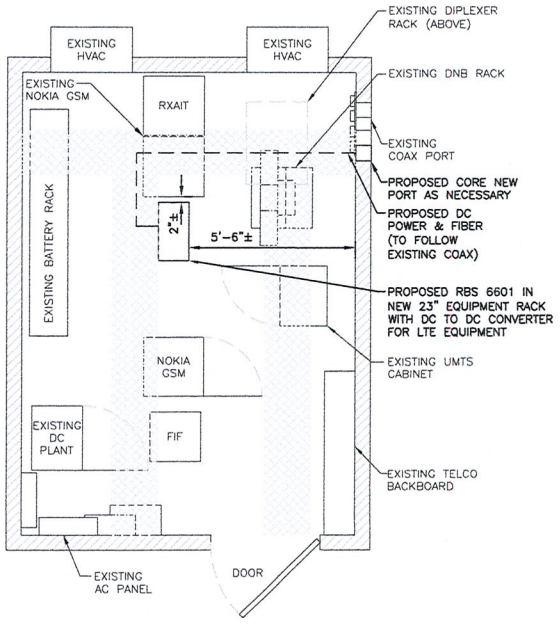


COMPOUND PLAN

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

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





SHELTER PLAN

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

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

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

SAI communications
22 KEEWAYDIN DRIVE
SALEM, NH 03079

SITE NUMBER: CT2175
SITE NAME: WEST BRANFORD
4 BEAVER RD.
BRANFORD, CT 06405
NEW LONDON COUNTY

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

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0	01/11/11	ISSUED FOR REVIEW	JG	DC	OPH

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

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

AT&T

COMPOUND & EQUIPMENT PLAN (LTE)

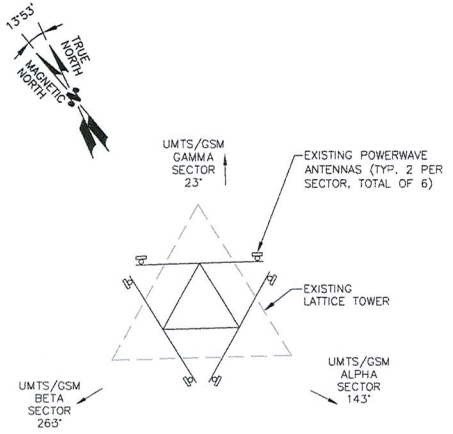
JOB NUMBER	DRAWING NUMBER	REV
2175.01	A-1	1

NOTE:

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

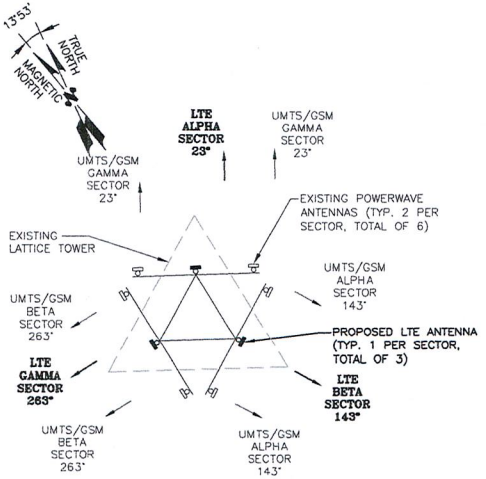
*NOTE:

REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA CONFIGURATION



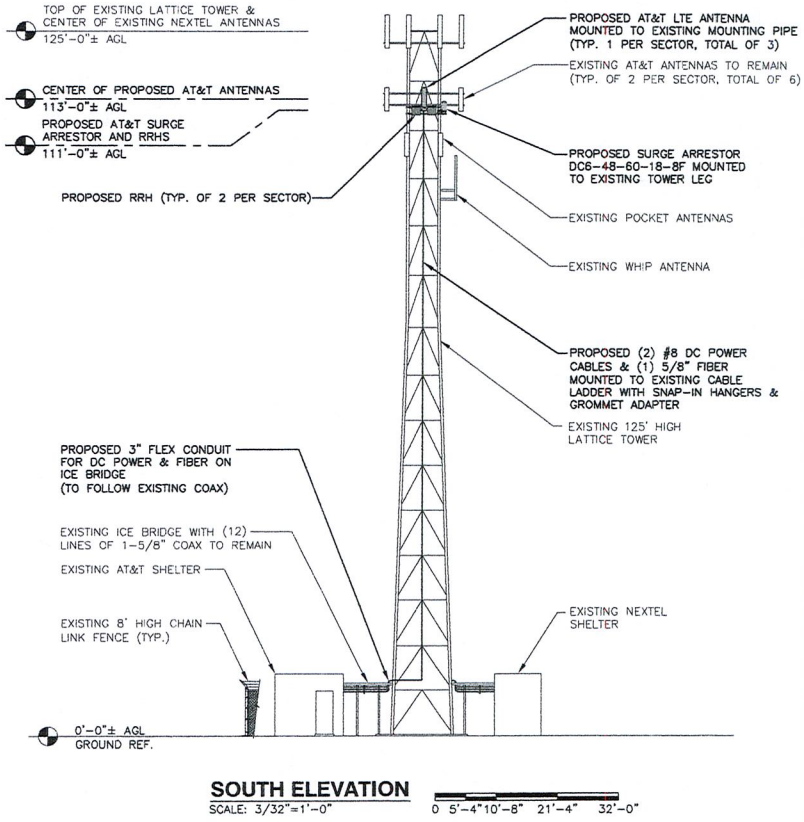
EXISTING ANTENNA PLAN

SCALE: N.T.S.



PROPOSED ANTENNA PLAN

SCALE: N.T.S.



SOUTH ELEVATION

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

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

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

SAI communications
22 KEEWAYDIN DRIVE
SALEM, NH 03079

SITE NUMBER: CT2175
SITE NAME: WEST BRANFORD
4 BEAVER RD.
BRANFORD, CT 06405
NEW LONDON COUNTY

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

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	01/25/11	ISSUED FOR CONSTRUCTION	JG	DC	DPH
0	01/11/11	ISSUED FOR REVIEW	JG	DC	DPH

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

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

AT&T

ANTENNA LAYOUT AND ELEVATION (LTE)

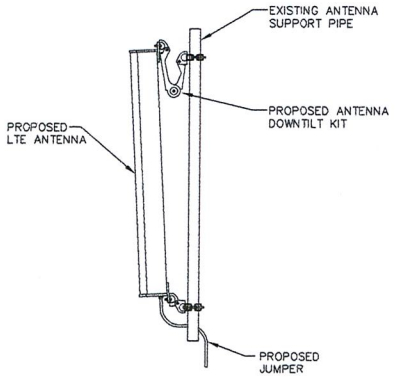
JOB NUMBER	DRAWING NUMBER	REV
2175.01	A-2	1

NOTE:

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

*NOTE:

REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA CONFIGURATION

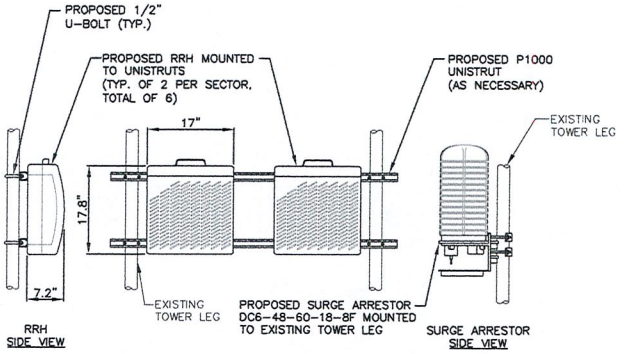


NOTES:

1. REFER TO RF CONFIG & SECTOR SCHEMATICS FOR MODEL, TYPE & QUANTITY REQUIRED PER SECTOR

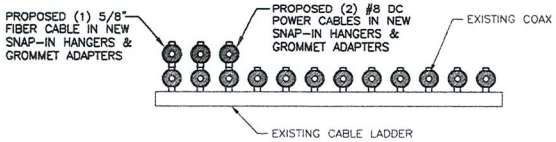
PROPOSED LTE ANTENNA DETAIL

SCALE: N.T.S.



PROPOSED RRH & SURGE ARRESTOR MOUNTING DETAIL

SCALE: N.T.S.



CABLE MOUNTING DETAIL

SCALE: N.T.S.

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

SAI communications
22 KEEWAYDIN DRIVE
SALEM, NH 03079

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SITE NAME: WEST BRANFORD
4 BEAVER RD.
BRANFORD, CT 06405
NEW LONDON COUNTY

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

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	01/25/11	ISSUED FOR CONSTRUCTION	DC	DC	DPH
0	01/11/11	ISSUED FOR REVIEW	JC	DC	DPH

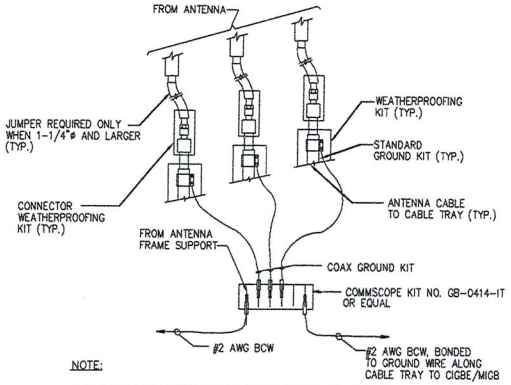
SCALE: AS SHOWN | DESIGNED BY: DC | DRAWN BY: JG

STATE OF CONNECTICUT DANIEL P. HAMM No. 24176 LICENSED PROFESSIONAL ENGINEER

AT&T

DETAILS (LTE)

JOB NUMBER	DRAWING NUMBER	REV
2175.01	A-3	1

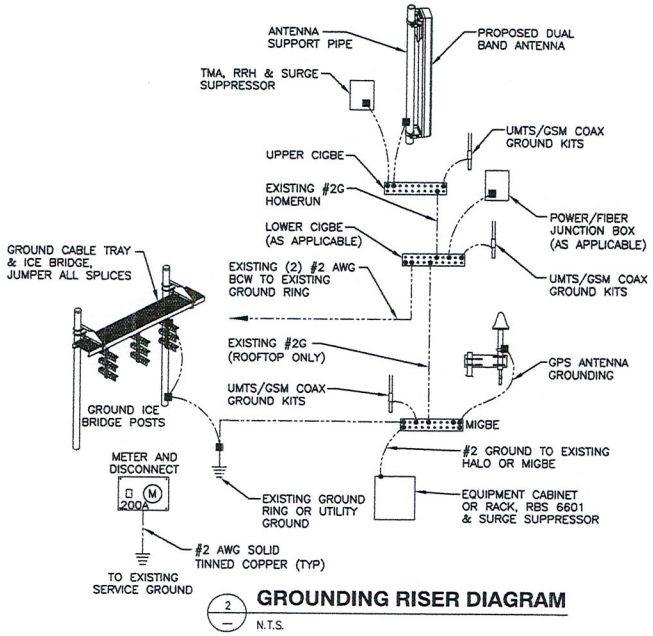


NOTE:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE.

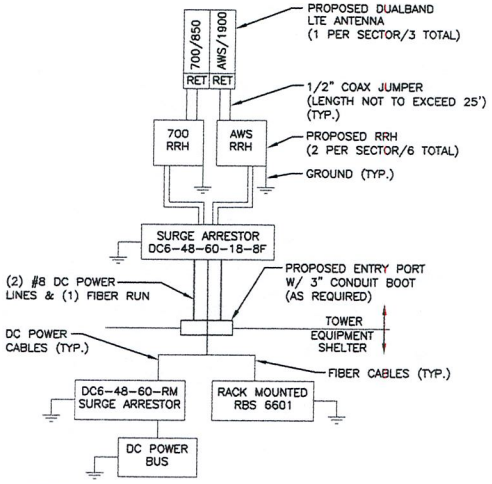
1 GROUND WIRE TO GROUND BAR CONNECTION DETAIL

N.T.S.



2 GROUNDING RISER DIAGRAM

N.T.S.

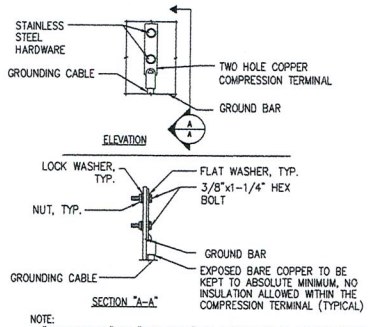


NOTES:

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

3 PLUMBING DIAGRAM

N.T.S.



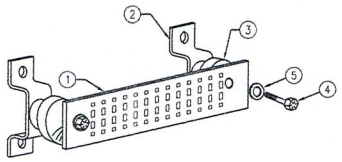
NOTE:

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

4 TYPICAL GROUND BAR CONNECTION DETAIL

N.T.S.

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



5 GROUND BAR - DETAIL

N.T.S.

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

SECTION "P" – SURGE PRODUCERS

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

SECTION "A" – SURGE ABSORBERS

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

Hudson Design Group LLC
1600 OSGOOD STREET
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SCALE: AS SHOWN | DESIGNED BY: DC | DRAWN BY: JG

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

AT&T

PLUMBING DIAGRAM & DETAILS (LTE)

JOB NUMBER	DRAWING NUMBER	REV
2175.01	G-1	1

2175

AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure	:	**125 ft Rohn Self Supported Tower**
ATC Site Name	:	**Cherry Hill-branford, CT**
ATC Site Number	:	**302536**
Proposed Carrier	:	**AT&T Mobility**
Carrier Site Name	:	**Brandford West**
Carrier Site Number	:	**10035093**
County	:	**New Haven**
Engineering Number	:	**46558421**
Date	:	**February 14, 2011**
Usage	:	**92% Legs, 98% Diagonals, 19% Horizontals**

Submitted by:
Christopher L. Jolly, E.I.
Design Engineer

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

3/9/11

Introduction

The purpose of this report is to summarize results of the structural analysis performed on the 125 ft Rohn Self Supported Tower located at 4 Beaver Road, Branford, Connecticut, 06405, New Haven County (ATC Site No. 302536). The tower was originally designed and manufactured by Rohn (Drawing No. A932277, dated November 11, 1993).

Analysis

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

Basic Wind Speed:	110.0 mph (3-Second Gust)
Radial Ice:	50.0 mph (3-Second Gust) w/ 1.25" ice
Code:	TIA-222-G / 2003 International Building Code with 2005 CT Supplements and 2009 CT Amendments

Antenna Loads

The following antenna loads were used in the tower analysis.

Existing Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax	Carrier
125.0	3	72" x 12" Panel	Sector Frames	(12) 1 5/8"	Sprint Nextel
	9	48" x 12" Panel			
113.0	6	Allgon 7770.00	Sector Frame	(12) 7/8"	AT&T Mobility
	6	Powerwave LGP21401			
	6	Powerwave LGP21903			
106.0	3	RFS APXV18-206517S-C-A20	Leg	(6) 1 5/8"	Youghiogheny
90.0	1	8' Omni	Side Arm	(1) 7/8"	Unknown

Proposed Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax	Carrier
113.0	6	Ericsson RRUS-11	Sector Frames	(1) RG6 (2) 8 AWG 7	AT&T Mobility
	1	Raycap DC6-48-60-18-8F			
	3	KMW AM-X-CD-14-65-00T-RET			

Stack proposed coax so that is shielded by existing for carrier.

Results

The maximum structure usage is: 98%

Leg Forces	Original Design Reactions	Modified Design Reactions *	Current Analysis Reactions	% Of Design
Uplift (Kips)	154.8	209.1	180.5	86
Axial (Kips)	169.1	228.3	198.0	87
Shear (Kips)	18.3	24.7	22.7	92

*** The original design reactions have been multiplied by 1.35 per TIA-222-G, Section 15.5.1**

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-222-G and 2003 IBC with 2005 CT Supplements and 2009 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 919-466-5007.

Standard Conditions

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

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

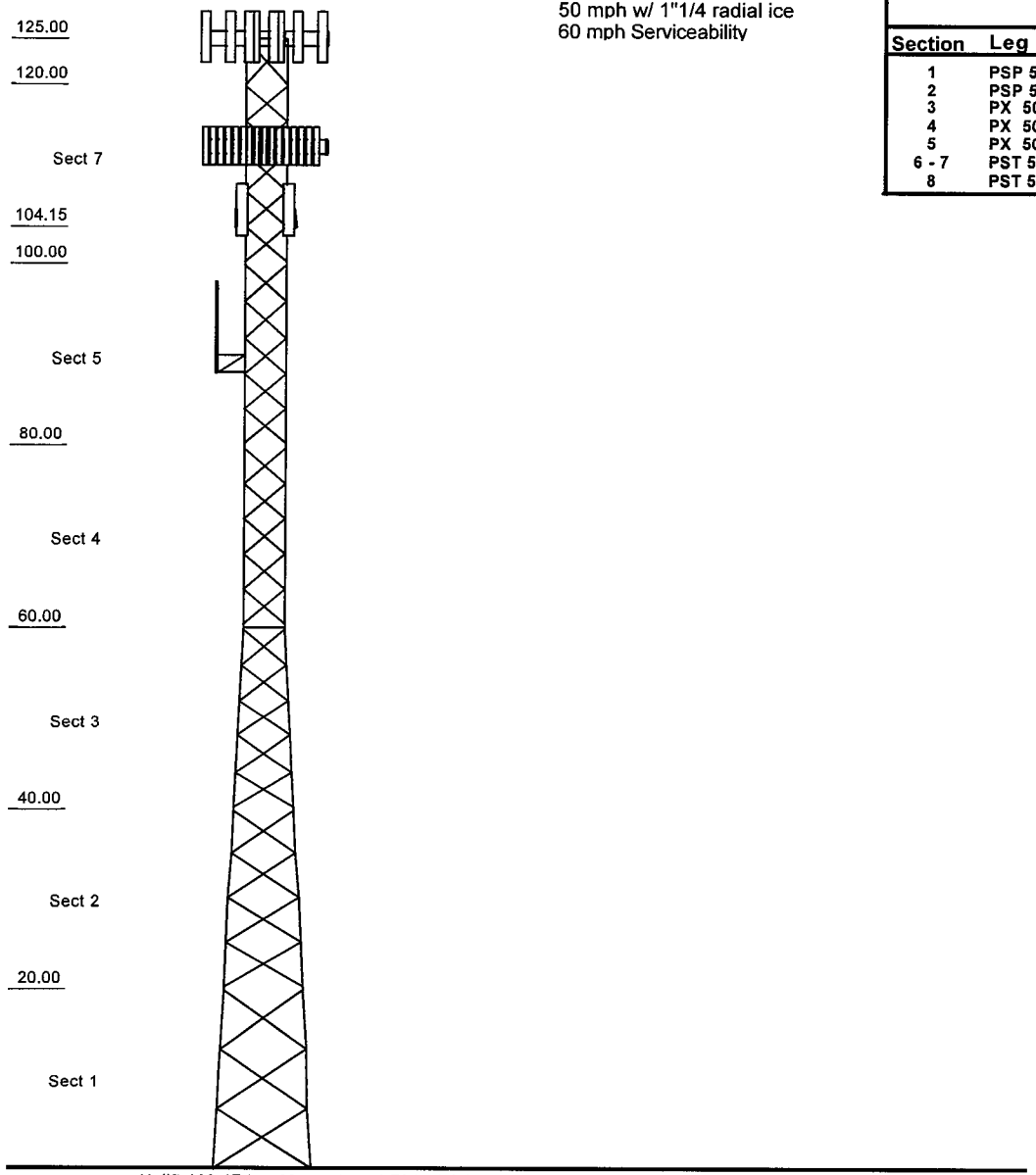
-- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to ATC Engineering Services and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and that their capacity has not significantly changed from the "as new" condition.

All services will be performed to the codes specified by the client, and we do not imply to meet any other codes or requirements unless explicitly agreed in writing. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/EIA-222.

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

Loads: 110 mph no ice
50 mph w/ 1"1/4 radial ice
60 mph Serviceability



Uplift 180.47 k Moment 1,784.91 ft-k
Vert 198.03 k Total Down 18.91 k
Horiz 14.85 k Total Shear 22.70 k

Job Information

Tower : 302536	Location : Cherry Hill-branford, CT	
Code: ANSI/TIA-222 Rev G	Shape : Triangle	Base Width : 10.75 ft
Client : AT&T Mobility		Top Width : 4.56 ft

Sections Properties

Section	Leg Members		Diagonal Members	Horizontal Members
1	PSP 50ksi	ROHN 5 EH	SAE 36ksi 1.75X1.75X0.125	
2	PSP 50ksi	ROHN 5 EH	SAE 36ksi 1.5X1.5X0.125	
3	PX 50ksi	4" DIA PIPE	SAE 36ksi 1.5X1.5X0.125	SAE 36ksi 1.5X1.5X0.125
4	PX 50ksi	4" DIA PIPE	SAE 36ksi 2X2X0.25	
5	PX 50ksi	3" DIA PIPE	SAE 36ksi 1.5X1.5X0.1875	
6 - 7	PST 50ksi	2-1/2" DIA PIPE	SAE 36ksi 1.5X1.5X0.1875	
8	PST 50ksi	2-1/2" DIA PIPE	SAE 36ksi 1.5X1.5X0.125	SAE 36ksi 1.5X1.5X0.125

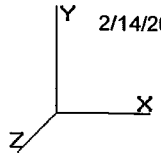
Discrete Appurtenance

Elev (ft)	Type	Qty	Description
125.00	Panel	9	48" x 12" Panel
125.00	Panel	3	72" x 12" Panel
125.00	Mounting Frame	3	Flat Light Sector Frame
113.00	Panel	3	KMW AM-X-CD-14-65-00T-RET
113.00	Panel	1	Raycap DC6-48-60-18-8F
113.00	Panel	6	Ericsson RRUS-11
113.00	Panel	6	Powerwave LGP21903
113.00	Panel	6	Powerwave LGP21401
113.00	Panel	6	Allgon 7770.00
113.00	Mounting Frame	3	Flat Light Sector Frame
106.00	Panel	3	RFS APXV18-206517S-C-A20
90.00	Straight Arm	1	Side Arm
90.00	Whip	1	8' Omni

Linear Appurtenance

Elev (ft) From	To	Qty	Description
0.000	125.00	2	1 5/8" Coax
0.000	125.00	10	1 5/8" Coax
0.000	124.99	1	Wave Guide
0.000	113.00	1	RG6
0.000	113.00	2	8 AWG 7
0.000	113.00	6	7/8" Coax
0.000	113.00	6	7/8" Coax
0.000	112.99	1	Wave Guide
0.000	106.00	6	1 5/8" Coax
0.000	105.99	1	Wave Guide
0.000	90.000	1	7/8" Coax

Site Number: 302536
Location: Cherry Hill-branford, CT
Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure : B
Topo : 1



2/14/2011 4:43:10 PM

Section Forces

LoadCase 1.2D + 1.6W Normal - Pat1

110.00 mph Normal to Face with No Ice - Pattern 1

Gust Response Factor : 0.85
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	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)
8	122.5	27.57	2.17	2.40	0.00	0.19	2.63	1.00	1.00	0.00	3.55	6.61	0.00	279.3	0.0	349.47	206.22	555.69
7	112.0	26.88	5.78	7.59	0.00	0.18	2.68	1.00	1.00	0.00	10.11	31.49	0.00	1,084.0	0.0	990.94	930.75	1,921.68
6	102.0	26.17	1.45	1.99	0.00	0.17	2.70	1.00	1.00	0.00	2.58	13.68	0.00	352.5	0.0	247.65	379.72	627.37
5	90.00	25.25	7.21	11.67	0.00	0.19	2.63	1.00	1.00	0.00	13.90	66.83	0.00	2,040.2	0.0	1,252.72	1,787.7	3,040.50
4	70.00	23.50	9.52	15.00	0.00	0.24	2.46	1.00	1.00	0.00	16.59	67.73	0.00	2,691.3	0.0	1,304.27	1,684.8	2,989.08
3	50.00	21.34	8.73	15.03	0.00	0.20	2.61	1.00	1.00	0.00	15.38	67.73	0.00	2,321.3	0.0	1,166.65	1,530.3	2,697.03
2	30.00	18.45	8.70	18.36	0.00	0.16	2.72	1.00	1.00	0.00	16.53	67.73	0.00	2,736.6	0.0	1,127.17	1,322.5	2,449.73
1	10.00	18.43	9.90	18.36	0.00	0.14	2.81	1.00	1.00	0.00	17.48	67.73	0.00	2,778.1	0.0	1,233.21	1,321.4	2,554.65
														14,283.3	0.0			16,835.74

LoadCase 1.2D + 1.6W Normal - Pat2

110.00 mph Normal to Face with No Ice - Pattern 2

Gust Response Factor : 0.85
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

	Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	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)
	8	122.5	27.57	2.17	2.40	0.00	0.19	2.63	1.00	1.00	0.00	3.55	6.61	0.00	279.3	0.0	349.47	206.22	555.69
1	7	112.0	14.78	5.78	7.59	0.00	0.18	2.68	1.00	1.00	0.00	10.11	31.49	0.00	1,084.0	0.0	545.01	511.91	1,056.93
1	6	102.0	14.40	1.45	1.99	0.00	0.17	2.70	1.00	1.00	0.00	2.58	13.68	0.00	352.5	0.0	136.21	208.85	345.05
1	5	90.00	13.89	7.21	11.67	0.00	0.19	2.63	1.00	1.00	0.00	13.90	66.83	0.00	2,040.2	0.0	689.00	983.28	1,672.28
1	4	70.00	12.92	9.52	15.00	0.00	0.24	2.46	1.00	1.00	0.00	16.59	67.73	0.00	2,691.3	0.0	717.35	926.65	1,643.99
1	3	50.00	11.74	8.73	15.03	0.00	0.20	2.61	1.00	1.00	0.00	15.38	67.73	0.00	2,321.3	0.0	641.66	841.71	1,483.37
1	2	30.00	10.15	8.70	18.36	0.00	0.16	2.72	1.00	1.00	0.00	16.53	67.73	0.00	2,736.6	0.0	619.94	727.41	1,347.35
1	1	10.00	10.14	9.90	18.36	0.00	0.14	2.81	1.00	1.00	0.00	17.48	67.73	0.00	2,778.1	0.0	678.26	726.79	1,405.06
															14,283.3	0.0			9,509.72

LoadCase 1.2D + 1.6W Normal - Pat3

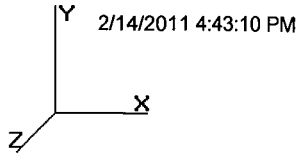
110.00 mph Normal to Face with No Ice - Pattern 3

Gust Response Factor : 0.85
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

	Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	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)
2	8	122.5	15.17	2.17	2.40	0.00	0.19	2.63	1.00	1.00	0.00	3.55	6.61	0.00	279.3	0.0	192.21	113.42	305.63
	7	112.0	26.88	5.78	7.59	0.00	0.18	2.68	1.00	1.00	0.00	10.11	31.49	0.00	1,084.0	0.0	990.94	930.75	1,921.68
	6	102.0	26.17	1.45	1.99	0.00	0.17	2.70	1.00	1.00	0.00	2.58	13.68	0.00	352.5	0.0	247.65	379.72	627.37
	5	90.00	25.25	7.21	11.67	0.00	0.19	2.63	1.00	1.00	0.00	13.90	66.83	0.00	2,040.2	0.0	1,252.72	1,787.7	3,040.50
	4	70.00	23.50	9.52	15.00	0.00	0.24	2.46	1.00	1.00	0.00	16.59	67.73	0.00	2,691.3	0.0	1,304.27	1,684.8	2,989.08

Site Number: 302536
Location: Cherry Hill-branford, CT
Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure : B
Topo : 1



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	Ice Thick (in)	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)
3	50.00	21.34	8.73	15.03	0.00	0.20	2.61	1.00	1.00	0.00	15.38	67.73	0.00	2,321.3	0.0	1,166.65	1,530.3	2,697.03
2	30.00	18.45	8.70	18.36	0.00	0.16	2.72	1.00	1.00	0.00	16.53	67.73	0.00	2,736.6	0.0	1,127.17	1,322.5	2,449.73
1	10.00	18.43	9.90	18.36	0.00	0.14	2.81	1.00	1.00	0.00	17.48	67.73	0.00	2,778.1	0.0	1,233.21	1,321.4	2,554.65
														14,283.3	0.0			16,585.68

LoadCase 1.2D + 1.6W 60 deg - Pat1

110.00 mph 60 deg with No Ice - Pattern 1

Gust Response Factor : 0.85
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	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)
8	122.5	27.57	2.17	2.40	0.00	0.19	2.63	0.80	1.00	0.00	3.11	6.61	0.00	279.3	0.0	306.64	206.22	512.86
7	112.0	26.88	5.78	7.59	0.00	0.18	2.68	0.80	1.00	0.00	8.95	31.49	0.00	1,084.0	0.0	877.70	930.75	1,808.45
6	102.0	26.17	1.45	1.99	0.00	0.17	2.70	0.80	1.00	0.00	2.29	13.68	0.00	352.5	0.0	219.87	379.72	599.59
5	90.00	25.25	7.21	11.67	0.00	0.19	2.63	0.80	1.00	0.00	12.46	66.83	0.00	2,040.2	0.0	1,122.70	1,787.7	2,910.48
4	70.00	23.50	9.52	15.00	0.00	0.24	2.46	0.80	1.00	0.00	14.69	67.73	0.00	2,691.3	0.0	1,154.54	1,684.8	2,839.35
3	50.00	21.34	8.73	15.03	0.00	0.20	2.61	0.80	1.00	0.00	13.64	67.73	0.00	2,321.3	0.0	1,034.28	1,530.3	2,564.66
2	30.00	18.45	8.70	18.36	0.00	0.16	2.72	0.80	1.00	0.00	14.79	67.73	0.00	2,736.6	0.0	1,008.50	1,322.5	2,331.06
1	10.00	18.43	9.90	18.36	0.00	0.14	2.81	0.80	1.00	0.00	15.50	67.73	0.00	2,778.1	0.0	1,093.55	1,321.4	2,415.00
														14,283.3	0.0			15,981.45

LoadCase 1.2D + 1.6W 60 deg - Pat2

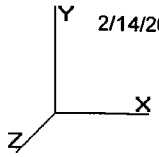
110.00 mph 60 deg with No Ice - Pattern 2

Gust Response Factor : 0.85
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

	Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	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)
	8	122.5	27.57	2.17	2.40	0.00	0.19	2.63	0.80	1.00	0.00	3.11	6.61	0.00	279.3	0.0	306.64	206.22	512.86
1	7	112.0	14.78	5.78	7.59	0.00	0.18	2.68	0.80	1.00	0.00	8.95	31.49	0.00	1,084.0	0.0	482.74	511.91	994.65
1	6	102.0	14.40	1.45	1.99	0.00	0.17	2.70	0.80	1.00	0.00	2.29	13.68	0.00	352.5	0.0	120.93	208.85	329.77
1	5	90.00	13.89	7.21	11.67	0.00	0.19	2.63	0.80	1.00	0.00	12.46	66.83	0.00	2,040.2	0.0	617.48	983.28	1,600.76
1	4	70.00	12.92	9.52	15.00	0.00	0.24	2.46	0.80	1.00	0.00	14.69	67.73	0.00	2,691.3	0.0	635.00	926.65	1,561.64
1	3	50.00	11.74	8.73	15.03	0.00	0.20	2.61	0.80	1.00	0.00	13.64	67.73	0.00	2,321.3	0.0	568.85	841.71	1,410.56
1	2	30.00	10.15	8.70	18.36	0.00	0.16	2.72	0.80	1.00	0.00	14.79	67.73	0.00	2,736.6	0.0	554.68	727.41	1,282.09
1	1	10.00	10.14	9.90	18.36	0.00	0.14	2.81	0.80	1.00	0.00	15.50	67.73	0.00	2,778.1	0.0	601.45	726.79	1,328.25
															14,283.3	0.0			9,020.58

Site Number: 302536
Location: Cherry Hill-branford, CT
Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure : B
Topo : 1



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Section Forces

LoadCase 1.2D + 1.6W 60 deg - Pat3

110.00 mph 60 deg with No Ice - Pattern 3

Gust Response Factor : 0.85
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	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)
2 8	122.5	15.17	2.17	2.40	0.00	0.19	2.63	0.80	1.00	0.00	3.11	6.61	0.00	279.3	0.0	168.65	113.42	282.07
7	112.0	26.88	5.78	7.59	0.00	0.18	2.68	0.80	1.00	0.00	8.95	31.49	0.00	1,084.0	0.0	877.70	930.75	1,808.45
6	102.0	26.17	1.45	1.99	0.00	0.17	2.70	0.80	1.00	0.00	2.29	13.68	0.00	352.5	0.0	219.87	379.72	599.59
5	90.00	25.25	7.21	11.67	0.00	0.19	2.63	0.80	1.00	0.00	12.46	66.83	0.00	2,040.2	0.0	1,122.70	1,787.7	2,910.48
4	70.00	23.50	9.52	15.00	0.00	0.24	2.46	0.80	1.00	0.00	14.69	67.73	0.00	2,691.3	0.0	1,154.54	1,684.8	2,839.35
3	50.00	21.34	8.73	15.03	0.00	0.20	2.61	0.80	1.00	0.00	13.64	67.73	0.00	2,321.3	0.0	1,034.28	1,530.3	2,564.66
2	30.00	18.45	8.70	18.36	0.00	0.16	2.72	0.80	1.00	0.00	14.79	67.73	0.00	2,736.6	0.0	1,008.50	1,322.5	2,331.06
1	10.00	18.43	9.90	18.36	0.00	0.14	2.81	0.80	1.00	0.00	15.50	67.73	0.00	2,778.1	0.0	1,093.55	1,321.4	2,415.00
														14,283.3	0.0			15,750.66

LoadCase 1.2D + 1.6W 90 deg - Pat1

110.00 mph 90 deg with No Ice - Pattern 1

Gust Response Factor : 0.85
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	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)
8	122.5	27.57	2.17	2.40	0.00	0.19	2.63	0.85	1.00	0.00	3.22	6.61	0.00	279.3	0.0	317.35	206.22	523.56
7	112.0	26.88	5.78	7.59	0.00	0.18	2.68	0.85	1.00	0.00	9.24	31.49	0.00	1,084.0	0.0	906.01	930.75	1,836.76
6	102.0	26.17	1.45	1.99	0.00	0.17	2.70	0.85	1.00	0.00	2.36	13.68	0.00	352.5	0.0	226.81	379.72	606.54
5	90.00	25.25	7.21	11.67	0.00	0.19	2.63	0.85	1.00	0.00	12.82	66.83	0.00	2,040.2	0.0	1,155.20	1,787.7	2,942.98
4	70.00	23.50	9.52	15.00	0.00	0.24	2.46	0.85	1.00	0.00	15.16	67.73	0.00	2,691.3	0.0	1,191.97	1,684.8	2,876.78
3	50.00	21.34	8.73	15.03	0.00	0.20	2.61	0.85	1.00	0.00	14.07	67.73	0.00	2,321.3	0.0	1,067.37	1,530.3	2,597.75
2	30.00	18.45	8.70	18.36	0.00	0.16	2.72	0.85	1.00	0.00	15.23	67.73	0.00	2,736.6	0.0	1,038.17	1,322.5	2,360.73
1	10.00	18.43	9.90	18.36	0.00	0.14	2.81	0.85	1.00	0.00	16.00	67.73	0.00	2,778.1	0.0	1,128.47	1,321.4	2,449.91
														14,283.3	0.0			16,195.02

LoadCase 1.2D + 1.6W 90 deg - Pat2

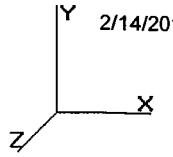
110.00 mph 90 deg with No Ice - Pattern 2

Gust Response Factor : 0.85
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	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)
8	122.5	27.57	2.17	2.40	0.00	0.19	2.63	0.85	1.00	0.00	3.22	6.61	0.00	279.3	0.0	317.35	206.22	523.56
1 7	112.0	14.78	5.78	7.59	0.00	0.18	2.68	0.85	1.00	0.00	9.24	31.49	0.00	1,084.0	0.0	498.31	511.91	1,010.22
1 6	102.0	14.40	1.45	1.99	0.00	0.17	2.70	0.85	1.00	0.00	2.36	13.68	0.00	352.5	0.0	124.75	208.85	333.59
1 5	90.00	13.89	7.21	11.67	0.00	0.19	2.63	0.85	1.00	0.00	12.82	66.83	0.00	2,040.2	0.0	635.36	983.28	1,618.64
1 4	70.00	12.92	9.52	15.00	0.00	0.24	2.46	0.85	1.00	0.00	15.16	67.73	0.00	2,691.3	0.0	655.58	926.65	1,582.23

Site Number: 302536
Location: Cherry Hill-branford, CT
Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure : B
Topo : 1



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Section Forces

1	3	50.00	11.74	8.73	15.03	0.00	0.20	2.61	0.85	1.00	0.00	14.07	67.73	0.00	2,321.3	0.0	587.05	841.71	1,428.76
1	2	30.00	10.15	8.70	18.36	0.00	0.16	2.72	0.85	1.00	0.00	15.23	67.73	0.00	2,736.6	0.0	570.99	727.41	1,298.40
1	1	10.00	10.14	9.90	18.36	0.00	0.14	2.81	0.85	1.00	0.00	16.00	67.73	0.00	2,778.1	0.0	620.66	726.79	1,347.45
															14,283.3	0.0			9,142.87

LoadCase 1.2D + 1.6W 90 deg - Pat3 — 110.00 mph 90 deg with No Ice - Pattern 3

Gust Response Factor : 0.85
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	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)
2 8	122.5	15.17	2.17	2.40	0.00	0.19	2.63	0.85	1.00	0.00	3.22	6.61	0.00	279.3	0.0	174.54	113.42	287.96
7	112.0	26.88	5.78	7.59	0.00	0.18	2.68	0.85	1.00	0.00	9.24	31.49	0.00	1,084.0	0.0	906.01	930.75	1,836.76
6	102.0	26.17	1.45	1.99	0.00	0.17	2.70	0.85	1.00	0.00	2.36	13.68	0.00	352.5	0.0	226.81	379.72	606.54
5	90.00	25.25	7.21	11.67	0.00	0.19	2.63	0.85	1.00	0.00	12.82	66.83	0.00	2,040.2	0.0	1,155.20	1,787.7	2,942.98
4	70.00	23.50	9.52	15.00	0.00	0.24	2.46	0.85	1.00	0.00	15.16	67.73	0.00	2,691.3	0.0	1,191.97	1,684.8	2,876.78
3	50.00	21.34	8.73	15.03	0.00	0.20	2.61	0.85	1.00	0.00	14.07	67.73	0.00	2,321.3	0.0	1,067.37	1,530.3	2,597.75
2	30.00	18.45	8.70	18.36	0.00	0.16	2.72	0.85	1.00	0.00	15.23	67.73	0.00	2,736.6	0.0	1,038.17	1,322.5	2,360.73
1	10.00	18.43	9.90	18.36	0.00	0.14	2.81	0.85	1.00	0.00	16.00	67.73	0.00	2,778.1	0.0	1,128.47	1,321.4	2,449.91
														14,283.3	0.0			15,959.42

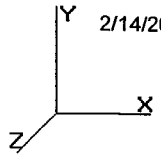
LoadCase 0.9D + 1.6W Normal — 110.00 mph Normal to Face with No Ice (Reduced DL)

Gust Response Factor : 0.85
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	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)
8	122.5	27.57	2.17	2.40	0.00	0.19	2.63	1.00	1.00	0.00	3.55	6.61	0.00	209.5	0.0	349.47	206.22	555.69
7	112.0	26.88	5.78	7.59	0.00	0.18	2.68	1.00	1.00	0.00	10.11	31.49	0.00	813.0	0.0	990.94	930.75	1,921.68
6	102.0	26.17	1.45	1.99	0.00	0.17	2.70	1.00	1.00	0.00	2.58	13.68	0.00	264.4	0.0	247.65	379.72	627.37
5	90.00	25.25	7.21	11.67	0.00	0.19	2.63	1.00	1.00	0.00	13.90	66.83	0.00	1,530.2	0.0	1,252.72	1,787.7	3,040.50
4	70.00	23.50	9.52	15.00	0.00	0.24	2.46	1.00	1.00	0.00	16.59	67.73	0.00	2,018.5	0.0	1,304.27	1,684.8	2,989.08
3	50.00	21.34	8.73	15.03	0.00	0.20	2.61	1.00	1.00	0.00	15.38	67.73	0.00	1,740.9	0.0	1,166.65	1,530.3	2,697.03
2	30.00	18.45	8.70	18.36	0.00	0.16	2.72	1.00	1.00	0.00	16.53	67.73	0.00	2,052.4	0.0	1,127.17	1,322.5	2,449.73
1	10.00	18.43	9.90	18.36	0.00	0.14	2.81	1.00	1.00	0.00	17.48	67.73	0.00	2,083.6	0.0	1,233.21	1,321.4	2,554.65
														10,712.5	0.0			16,835.74

Site Number: 302536
Location: Cherry Hill-branford, CT
Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure : B
Topo : 1



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Section Forces

LoadCase 0.9D + 1.6W 60 deg

110.00 mph 60 deg with No Ice (Reduced DL)

Gust Response Factor : 0.85
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	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)
8	122.5	27.57	2.17	2.40	0.00	0.19	2.63	0.80	1.00	0.00	3.11	6.61	0.00	209.5	0.0	306.64	206.22	512.86
7	112.0	26.88	5.78	7.59	0.00	0.18	2.68	0.80	1.00	0.00	8.95	31.49	0.00	813.0	0.0	877.70	930.75	1,808.45
6	102.0	26.17	1.45	1.99	0.00	0.17	2.70	0.80	1.00	0.00	2.29	13.68	0.00	264.4	0.0	219.87	379.72	599.59
5	90.00	25.25	7.21	11.67	0.00	0.19	2.63	0.80	1.00	0.00	12.46	66.83	0.00	1,530.2	0.0	1,122.70	1,787.7	2,910.48
4	70.00	23.50	9.52	15.00	0.00	0.24	2.46	0.80	1.00	0.00	14.69	67.73	0.00	2,018.5	0.0	1,154.54	1,684.8	2,839.35
3	50.00	21.34	8.73	15.03	0.00	0.20	2.61	0.80	1.00	0.00	13.64	67.73	0.00	1,740.9	0.0	1,034.28	1,530.3	2,564.66
2	30.00	18.45	8.70	18.36	0.00	0.16	2.72	0.80	1.00	0.00	14.79	67.73	0.00	2,052.4	0.0	1,008.50	1,322.5	2,331.06
1	10.00	18.43	9.90	18.36	0.00	0.14	2.81	0.80	1.00	0.00	15.50	67.73	0.00	2,083.6	0.0	1,093.55	1,321.4	2,415.00
														10,712.5	0.0			15,981.45

LoadCase 0.9D + 1.6W 90 deg

110.00 mph 90 deg with No Ice (Reduced DL)

Gust Response Factor : 0.85
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	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)
8	122.5	27.57	2.17	2.40	0.00	0.19	2.63	0.85	1.00	0.00	3.22	6.61	0.00	209.5	0.0	317.35	206.22	523.56
7	112.0	26.88	5.78	7.59	0.00	0.18	2.68	0.85	1.00	0.00	9.24	31.49	0.00	813.0	0.0	906.01	930.75	1,836.76
6	102.0	26.17	1.45	1.99	0.00	0.17	2.70	0.85	1.00	0.00	2.36	13.68	0.00	264.4	0.0	226.81	379.72	606.54
5	90.00	25.25	7.21	11.67	0.00	0.19	2.63	0.85	1.00	0.00	12.82	66.83	0.00	1,530.2	0.0	1,155.20	1,787.7	2,942.98
4	70.00	23.50	9.52	15.00	0.00	0.24	2.46	0.85	1.00	0.00	15.16	67.73	0.00	2,018.5	0.0	1,191.97	1,684.8	2,876.78
3	50.00	21.34	8.73	15.03	0.00	0.20	2.61	0.85	1.00	0.00	14.07	67.73	0.00	1,740.9	0.0	1,067.37	1,530.3	2,597.75
2	30.00	18.45	8.70	18.36	0.00	0.16	2.72	0.85	1.00	0.00	15.23	67.73	0.00	2,052.4	0.0	1,038.17	1,322.5	2,360.73
1	10.00	18.43	9.90	18.36	0.00	0.14	2.81	0.85	1.00	0.00	16.00	67.73	0.00	2,083.6	0.0	1,128.47	1,321.4	2,449.91
														10,712.5	0.0			16,195.02

LoadCase 1.2D + 1.0Di + 1.0Wi Normal

50.00 mph Normal with 1.25 in Radial Ice

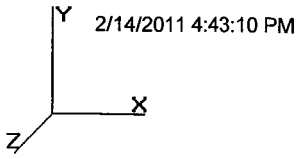
Gust Response Factor : 0.85
Dead Load Factor : 1.20
Wind Load Factor : 1.00

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
Ice Importance Factor : 1.00

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	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)	
8	122.5	5.70	2.17	15.75	13.35	0.68	1.78	1.00	1.00	2.85	14.71	8.98	7.12	1,768.4	1,489.0	126.54	33.06	159.60	
7	112.0	5.55	5.78	45.18	37.58	0.61	1.80	1.00	1.00	2.83	39.60	43.12	70.15	6,935.2	5,851.2	336.39	266.74	603.14	
6	102.0	5.41	1.45	11.49	9.50	0.59	1.81	1.00	1.00	2.80	9.90	17.55	38.72	2,511.2	2,158.6	82.47	132.85	212.55	**
5	90.00	5.22	7.21	58.02	46.35	0.60	1.80	1.00	1.00	2.76	50.54	85.25	188.86	12,590.0	10,549.	403.61	597.70	1,001.31	
4	70.00	4.86	9.52	60.32	45.32	0.63	1.79	1.00	1.00	2.70	55.75	85.70	188.67	13,552.6	10,861.	411.04	514.21	925.25	

Site Number: 302536
Location: Cherry Hill-branford, CT
Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure : B
Topo : 1



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	Ice Thick (in)	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)	
3	50.00	4.41	8.73	64.55	49.52	0.56	1.83	1.00	1.00	2.61	55.21	85.11	182.42	12,718.7	10,397.	379.31	546.89	926.20	
2	30.00	3.81	8.70	65.15	46.78	0.43	2.01	1.00	1.00	2.48	50.98	84.24	173.34	12,517.3	9,780.7	332.07	593.81	925.88	
1	10.00	3.81	9.90	59.29	40.93	0.33	2.23	1.00	1.00	2.22	45.94	82.52	155.31	11,191.2	8,413.1	331.05	632.65	963.70	
														73,784.5	59,501.2			5,717.63	

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.2D + 1.0Di + 1.0Wi 60 deg

50.00 mph 60 deg with 1.25 in Radial Ice

Gust Response Factor : 0.85
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

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	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)	
8	122.5	5.70	2.17	15.75	13.35	0.68	1.78	0.80	1.00	2.85	14.28	8.98	7.12	1,768.4	1,489.0	122.80	33.06	155.86	
7	112.0	5.55	5.78	45.18	37.58	0.61	1.80	0.80	1.00	2.83	38.45	43.12	70.15	6,935.2	5,851.2	326.58	266.74	593.33	
6	102.0	5.41	1.45	11.49	9.50	0.59	1.81	0.80	1.00	2.80	9.61	17.55	38.72	2,511.2	2,158.6	80.06	132.85	212.55	**
5	90.00	5.22	7.21	58.02	46.35	0.60	1.80	0.80	1.00	2.76	49.09	85.25	188.86	12,590.0	10,549.	392.09	597.70	989.79	
4	70.00	4.86	9.52	60.32	45.32	0.63	1.79	0.80	1.00	2.70	53.85	85.70	188.67	13,552.6	10,861.	397.00	514.21	911.21	
3	50.00	4.41	8.73	64.55	49.52	0.56	1.83	0.80	1.00	2.61	53.46	85.11	182.42	12,718.7	10,397.	367.32	546.89	914.21	
2	30.00	3.81	8.70	65.15	46.78	0.43	2.01	0.80	1.00	2.48	49.24	84.24	173.34	12,517.3	9,780.7	320.73	593.81	914.54	
1	10.00	3.81	9.90	59.29	40.93	0.33	2.23	0.80	1.00	2.22	43.96	82.52	155.31	11,191.2	8,413.1	316.79	632.65	949.44	
														73,784.5	59,501.2			5,640.92	

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.2D + 1.0Di + 1.0Wi 90 deg

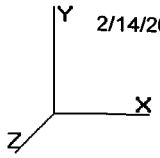
50.00 mph 90 deg with 1.25 in Radial Ice

Gust Response Factor : 0.85
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

Sect Seq	Wind Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	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)	
8	122.5	5.70	2.17	15.75	13.35	0.68	1.78	0.85	1.00	2.85	14.39	8.98	7.12	1,768.4	1,489.0	123.73	33.06	156.79	
7	112.0	5.55	5.78	45.18	37.58	0.61	1.80	0.85	1.00	2.83	38.73	43.12	70.15	6,935.2	5,851.2	329.03	266.74	595.78	
6	102.0	5.41	1.45	11.49	9.50	0.59	1.81	0.85	1.00	2.80	9.68	17.55	38.72	2,511.2	2,158.6	80.66	132.85	212.55	**
5	90.00	5.22	7.21	58.02	46.35	0.60	1.80	0.85	1.00	2.76	49.46	85.25	188.86	12,590.0	10,549.	394.97	597.70	992.67	
4	70.00	4.86	9.52	60.32	45.32	0.63	1.79	0.85	1.00	2.70	54.32	85.70	188.67	13,552.6	10,861.	400.51	514.21	914.72	
3	50.00	4.41	8.73	64.55	49.52	0.56	1.83	0.85	1.00	2.61	53.90	85.11	182.42	12,718.7	10,397.	370.31	546.89	917.21	
2	30.00	3.81	8.70	65.15	46.78	0.43	2.01	0.85	1.00	2.48	49.68	84.24	173.34	12,517.3	9,780.7	323.57	593.81	917.38	
1	10.00	3.81	9.90	59.29	40.93	0.33	2.23	0.85	1.00	2.22	44.45	82.52	155.31	11,191.2	8,413.1	320.35	632.65	953.01	
														73,784.5	59,501.2			5,660.10	

** = Section Force Exceeds Solidity Ratio Criteria

Site Number: 302536
Location: Cherry Hill-branford, CT
Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure : B
Topo : 1



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Section Forces

LoadCase 1.0D + 1.0W Service Normal

Serviceability - 60.00 Wind Normal

Gust Response Factor : 0.85
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.00

Sect Seq	Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	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)
8	122.5	8.20	2.17	2.40	0.00	0.19	2.63	1.00	1.00	0.00	3.55	6.61	0.00	232.8	0.0	64.98	38.35	103.33
7	112.0	8.00	5.78	7.59	0.00	0.18	2.68	1.00	1.00	0.00	10.11	31.49	0.00	903.4	0.0	184.26	173.07	357.34
6	102.0	7.79	1.45	1.99	0.00	0.17	2.70	1.00	1.00	0.00	2.58	13.68	0.00	293.8	0.0	46.05	70.61	116.66
5	90.00	7.51	7.21	11.67	0.00	0.19	2.63	1.00	1.00	0.00	13.90	66.83	0.00	1,700.2	0.0	232.94	332.44	565.38
4	70.00	6.99	9.52	15.00	0.00	0.24	2.46	1.00	1.00	0.00	18.27	67.73	0.00	2,242.7	0.0	267.09	313.29	580.38
3	50.00	6.35	8.73	15.03	0.00	0.20	2.61	1.00	1.00	0.00	17.35	67.73	0.00	1,934.4	0.0	244.63	284.58	529.21
2	30.00	5.49	8.70	18.36	0.00	0.16	2.72	1.00	1.00	0.00	19.16	67.73	0.00	2,280.5	0.0	242.84	245.93	488.77
1	10.00	5.48	9.90	18.36	0.00	0.14	2.81	1.00	1.00	0.00	20.30	67.73	0.00	2,315.1	0.0	266.31	245.72	512.03
														11,902.8	0.0			3,253.10

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.0D + 1.0W Service 60 deg

Serviceability - 60.00 Wind 60 deg

Gust Response Factor : 0.85
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.00

Sect Seq	Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	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)
8	122.5	8.20	2.17	2.40	0.00	0.19	2.63	0.80	1.00	0.00	3.11	6.61	0.00	232.8	0.0	57.02	38.35	95.37
7	112.0	8.00	5.78	7.59	0.00	0.18	2.68	0.80	1.00	0.00	8.95	31.49	0.00	903.4	0.0	163.21	173.07	336.28
6	102.0	7.79	1.45	1.99	0.00	0.17	2.70	0.80	1.00	0.00	2.29	13.68	0.00	293.8	0.0	40.88	70.61	111.49
5	90.00	7.51	7.21	11.67	0.00	0.19	2.63	0.80	1.00	0.00	12.46	66.83	0.00	1,700.2	0.0	208.77	332.44	541.20
4	70.00	6.99	9.52	15.00	0.00	0.24	2.46	0.80	1.00	0.00	16.37	67.73	0.00	2,242.7	0.0	239.24	313.29	552.54
3	50.00	6.35	8.73	15.03	0.00	0.20	2.61	0.80	1.00	0.00	15.60	67.73	0.00	1,934.4	0.0	220.02	284.58	504.59
2	30.00	5.49	8.70	18.36	0.00	0.16	2.72	0.80	1.00	0.00	17.42	67.73	0.00	2,280.5	0.0	220.78	245.93	466.71
1	10.00	5.48	9.90	18.36	0.00	0.14	2.81	0.80	1.00	0.00	18.32	67.73	0.00	2,315.1	0.0	240.34	245.72	486.06
														11,902.8	0.0			3,094.25

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.0D + 1.0W Service 90 deg

Serviceability - 60.00 Wind 90 deg

Gust Response Factor : 0.85
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.00

Sect Seq	Height (ft)	qz	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	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)
8	122.5	8.20	2.17	2.40	0.00	0.19	2.63	0.85	1.00	0.00	3.22	6.61	0.00	232.8	0.0	59.01	38.35	97.36
7	112.0	8.00	5.78	7.59	0.00	0.18	2.68	0.85	1.00	0.00	9.24	31.49	0.00	903.4	0.0	168.47	173.07	341.55
6	102.0	7.79	1.45	1.99	0.00	0.17	2.70	0.85	1.00	0.00	2.36	13.68	0.00	293.8	0.0	42.18	70.61	112.79
5	90.00	7.51	7.21	11.67	0.00	0.19	2.63	0.85	1.00	0.00	12.82	66.83	0.00	1,700.2	0.0	214.81	332.44	547.25
4	70.00	6.99	9.52	15.00	0.00	0.24	2.46	0.85	1.00	0.00	16.84	67.73	0.00	2,242.7	0.0	246.20	313.29	559.50

Site Number: 302536
Location: Cherry Hill-branford, CT
Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure : B
Topo : 1

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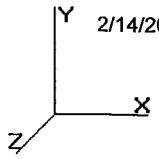
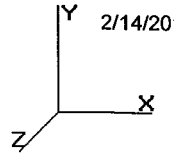


Section Forces

3	50.00	6.35	8.73	15.03	0.00	0.20	2.61	0.85	1.00	0.00	16.04	67.73	0.00	1,934.4	0.0	226.17	284.58	510.75
2	30.00	5.49	8.70	18.36	0.00	0.16	2.72	0.85	1.00	0.00	17.85	67.73	0.00	2,280.5	0.0	226.29	245.93	472.22
1	10.00	5.48	9.90	18.36	0.00	0.14	2.81	0.85	1.00	0.00	18.82	67.73	0.00	2,315.1	0.0	246.83	245.72	492.56
														11,902.8	0.0			3,133.96

** = Section Force Exceeds Solidity Ratio Criteria

Site Number: 302536
Location: Cherry Hill-branford, CT
Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure : B
Topo : 1



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Tower Loading

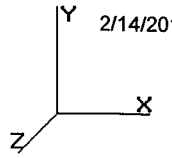
Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	No Ice Weight (lb)	No Ice CaAa (sf)	Ice Weight (lb)	Ice CaAa (sf)	Len (ft)	Width (in)	Depth (in)	Ka	Orientation Factor	Vert Ecc (ft)
125.0	48" x 12" Panel	9	30.00	5.600	278.44	6.746	4.000	12.00	6.000	0.80	0.67	0.000
125.0	72" x 12" Panel	3	40.00	8.400	393.52	10.339	6.000	12.00	6.000	0.80	0.67	0.000
125.0	Flat Light Sector Frame	3	400.00	17.900	892.54	42.594	0.000	0.000	0.000	0.75	0.75	0.000
113.0	KMW AM-X-CD-14-65-00T-	3	36.40	5.500	278.54	6.651	4.000	11.80	5.900	0.80	0.66	0.000
113.0	Raycap DC6-48-60-18-8F	1	31.80	1.470	204.08	3.317	2.000	11.00	11.00	0.80	0.67	0.000
113.0	Ericsson RRUS-11	6	55.00	4.420	248.77	5.133	2.083	18.20	6.700	0.80	0.50	0.000
113.0	Powerwave LGP21903	6	5.50	0.270	36.58	0.683	0.370	6.300	3.000	0.80	0.50	0.000
113.0	Powerwave LGP21401	6	14.10	1.290	82.55	1.907	1.200	9.200	2.600	0.80	0.50	0.000
113.0	Allgon 7770.00	6	35.00	5.880	285.35	7.289	4.580	11.00	5.000	0.80	0.65	0.000
113.0	Flat Light Sector Frame	3	400.00	17.900	888.18	42.375	0.000	0.000	0.000	0.75	0.75	0.000
106.0	RFS APXV18-206517S-C-A20	3	26.40	5.160	249.91	7.219	6.000	6.800	3.200	0.80	0.79	0.000
90.00	Side Arm	1	150.00	3.000	266.08	5.487	0.000	0.000	0.000	1.00	1.00	0.000
90.00	8' Omni	1	40.00	2.400	251.27	5.465	8.000	3.000	3.000	1.00	1.00	4.000
	Totals	51	3857.80		15254.99					Number of Appurtenances : 13		

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out Of Zone	Spacing (in)	Orientation Factor	Ka Override
0.00	125.0	1 5/8" Coax	10	1.98	0.82	50	Lin App	Block	0.00	N	0.00	1.00	0.00
0.00	125.0	1 5/8" Coax	2	1.98	0.82	0	Lin App	Individual	0.00	N	0.00	1.00	0.00
0.00	124.9	Wave Guide	1	2.00	6.00	0	1	Individual	0.00	N	0.00	1.00	0.00
0.00	113.0	7/8" Coax	6	1.09	0.33	50	Lin App	Block	0.00	N	0.00	1.00	0.00
0.00	113.0	7/8" Coax	6	1.09	0.33	0	Lin App	Individual	0.00	N	0.00	1.00	0.00
0.00	113.0	8 AWG 7	2	0.00	0.49	0	2	Individual	0.00	N	0.00	1.00	0.00
0.00	113.0	RG6	1	0.00	0.03	0	2	Individual	0.00	N	0.00	1.00	0.00
0.00	112.9	Wave Guide	1	2.00	6.00	0	2	Individual	0.00	N	0.00	1.00	0.00
0.00	106.0	1 5/8" Coax	6	1.98	0.82	0	3	Individual	0.00	N	0.00	1.00	0.00
0.00	105.9	Wave Guide	1	0.00	6.00	0	3	Individual	0.00	N	0.00	1.00	0.00
0.00	90.00	7/8" Coax	1	1.09	0.33	0	Lin App	Individual	0.00	N	0.00	1.00	0.00

Site Number: 302536
Location: Cherry Hill-branford, CT
Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure : B
Topo : 1



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Force/Stress Summary

Section: 1 9N39 Bot Elev (ft): 0.00 Height (ft): 20.000

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG PSP - ROHN 5 EH	-195.66	1.2D + 1.6W	6.59	100	100	100	43.0	50.0	240.17	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 - 1.75X1.75X0.12	-2.23	1.2D + 1.6W	12.31	48	48	48	204.5	36.0	2.27	1	1	7.95	6.96	98	Member Z

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phit Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PSP - ROHN 5 EH	179.97	1.2D + 1.6W 60	50	65	274.95	0	0	0.00	0.00	65	Member
HORIZ	0.00		0	0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 1.75X1.75X0.12	2.02	1.2D + 1.6W 90	36	58	11.15	1	1	0.00	6.96	18	Member

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	169.47	0.9D + 1.6W 60	0.00	0	0	
Top Compression	185.01	1.2D + 1.6W	0.00	0		
Bot Tension	181.07	0.9D + 1.6W 60	242.28	75	4	1" A354-BC
Bot Compression	198.39	1.2D + 1.6W	0.00	0		

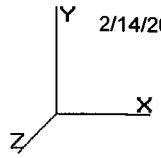
Section: 2 8N199 Bot Elev (ft): 20.00 Height (ft): 20.000

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG PSP - ROHN 5 EH	-182.97	1.2D + 1.6W	4.88	100	100	100	31.8	50.0	255.30	0	0	0.00	0.00	71	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 - 1.5X1.5X0.125	-1.79	1.2D + 1.6W 90	9.784	50	50	50	198.3	36.0	2.07	1	1	7.95	6.96	86	Member Z

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phit Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PSP - ROHN 5 EH	168.75	1.2D + 1.6W 60	50	65	274.95	0	0	0.00	0.00	61	Member
HORIZ	0.00		0	0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 1.5X1.5X0.125	1.60	1.2D + 1.6W 90	36	58	9.20	1	1	0.00	6.96	17	Member

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	158.15	0.9D + 1.6W 60	0.00	0	0	
Top Compression	171.44	1.2D + 1.6W	0.00	0		
Bot Tension	169.47	0.9D + 1.6W 60	218.08	78	4	1 A325
Bot Compression	185.01	1.2D + 1.6W	0.00	0		

Site Number: 302536
Location: Cherry Hill-branford, CT
Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure : B
Topo : 1



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Force/Stress Summary

Section: 3 7N344 Bot Elev (ft): 40.00 Height (ft): 20.000

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG PX - 4" DIA PIPE	-170.06	1.2D + 1.6W	3.91	100	100	100	31.7	50.0	184.41	0	0	0.00	0.00	92	Member X
HORIZ SAE - 1.5X1.5X0.125	-0.14	1.2D + 1.6W	4.677	100	100	100	189.6	36.0	2.26	1	1	7.95	6.96	6	Member Z
DIAG SAE - 1.5X1.5X0.125	-1.10	1.2D + 1.6W 90	7.600	50	50	50	154.1	36.0	3.43	1	1	7.95	6.96	32	Member Z

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phit Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PX - 4" DIA PIPE	157.73	1.2D + 1.6W 60	50	65	198.45	0	0	0.00	0.00	79	Member
HORIZ SAE - 1.5X1.5X0.125	0.06	1.2D + 1.6W 60	36	58	9.20	1	1	0.00	6.96	0	Member
DIAG SAE - 1.5X1.5X0.125	1.48	1.2D + 1.6W 90	36	58	9.20	1	1	0.00	6.96	16	Member

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	150.09	0.9D + 1.6W 60	0.00	0	0	
Top Compression	161.45	1.2D + 1.6W	0.00	0		
Bot Tension	158.15	0.9D + 1.6W 60	218.08	73	4	1 A325
Bot Compression	171.44	1.2D + 1.6W	0.00	0		

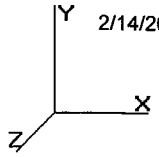
Section: 4 6N166 Bot Elev (ft): 60.00 Height (ft): 20.000

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG PX - 4" DIA PIPE	-152.07	1.2D + 1.6W	3.90	100	100	100	31.6	50.0	184.46	0	0	0.00	0.00	82	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 - 2X2X0.25	-6.93	1.2D + 1.6W	6.090	50	50	50	100.1	36.0	17.97	1	1	7.95	13.92	87	Bolt Shear

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phit Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PX - 4" DIA PIPE	149.70	1.2D + 1.6W 60	50	65	198.45	0	0	0.00	0.00	75	Member
HORIZ	0.00		0	0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 2X2X0.25	6.47	1.2D + 1.6W 60	36	58	25.57	1	1	0.00	13.92	25	Member

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	84.51	0.9D + 1.6W 60	0.00	0	0	
Top Compression	92.00	1.2D + 1.6W	0.00	0		
Bot Tension	150.09	0.9D + 1.6W 60	166.24	90	4	7/8 A325
Bot Compression	161.45	1.2D + 1.6W	0.00	0		

Site Number: 302536
Location: Cherry Hill-branford, CT
Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure : B
Topo : 1



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Force/Stress Summary

Section: 5 6N309 Bot Elev (ft): 80.00 Height (ft): 20.000

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG PX - 3" DIA PIPE	-85.89	1.2D + 1.6W	3.90	100	100	100	41.1	50.0	120.14	0	0	0.00	0.00	71	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 - 1.5X1.5X0.1875	-5.06	1.2D + 1.6W 90	6.084	50	50	50	124.6	36.0	7.59	1	1	7.95	10.44	66	Member Z

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phit Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PX - 3" DIA PIPE	84.35	1.2D + 1.6W 60	50	65	135.90	0	0	0.00	0.00	62	Member
HORIZ	0.00		0	0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 1.5X1.5X0.1875	4.95	1.2D + 1.6W 90	36	58	13.47	1	1	0.00	10.44	36	Member

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	34.22	0.9D + 1.6W 60	0.00	0	0	
Top Compression	38.66	1.2D + 1.6W	0.00	0		
Bot Tension	84.51	0.9D + 1.6W 60	166.24	51	4	7/8 A325
Bot Compression	92.00	1.2D + 1.6W	0.00	0		

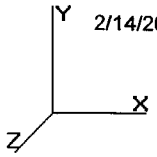
Section: 6 6N30 Bot Elev (ft): 100.0 Height (ft): 4.150

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG PST - 2-1/2" DIA PIP	-33.98	1.2D + 1.6W	3.90	100	100	100	49.4	50.0	64.14	0	0	0.00	0.00	52	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 - 1.5X1.5X0.1875	-3.87	1.2D + 1.6W 90	6.030	50	50	50	123.5	36.0	7.69	1	1	7.95	10.44	50	Member Z

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phit Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PST - 2-1/2" DIA PIP	33.97	1.2D + 1.6W 60	50	65	76.68	0	0	0.00	0.00	44	Member
HORIZ	0.00		0	0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 1.5X1.5X0.1875	3.86	1.2D + 1.6W 90	36	58	13.47	1	1	0.00	10.44	28	Member

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	25.73	0.9D + 1.6W 60	0.00	0	0	
Top Compression	29.72	1.2D + 1.6W	0.00	0		
Bot Tension	34.22	0.9D + 1.6W 60	120.39	28	4	3/4 A325
Bot Compression	38.66	1.2D + 1.6W	0.00	0		

Site Number: 302536
Location: Cherry Hill-branford, CT
Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure : B
Topo : 1



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Force/Stress Summary

Section: 7 6N30 Bot Elev (ft): 104.1 Height (ft): 15.850

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG PST - 2-1/2" DIA PIP	-25.87	1.2D + 1.6W	3.90	100	100	100	49.4	50.0	64.14	0	0	0.00	0.00	40	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 - 1.5X1.5X0.1875	-3.38	1.2D + 1.6W 90	6.024	50	50	50	123.4	36.0	7.71	1	1	7.95	10.44	43	Member Z

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phit Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PST - 2-1/2" DIA PIP	21.79	1.2D + 1.6W 60	50	65	76.68	0	0	0.00	0.00	28	Member
HORIZ	0.00		0	0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 1.5X1.5X0.1875	3.37	1.2D + 1.6W 90	36	58	13.47	1	1	0.00	10.44	24	Member

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	3.61	0.9D + 1.6W 60	0.00	0	0	
Top Compression	5.02	1.2D + 1.6W	0.00	0		
Bot Tension	25.73	0.9D + 1.6W 60	120.39	21	4	3/4 A325
Bot Compression	29.72	1.2D + 1.6W	0.00	0		

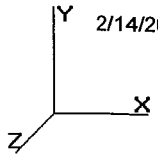
Section: 8 6N285 Bot Elev (ft): 120.0 Height (ft): 5.000

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG PST - 2-1/2" DIA PIP	-3.01	1.2D + 1.0Di +	5.00	100	100	100	63.4	50.0	57.18	0	0	0.00	0.00	5	Member X
HORIZ SAE - 1.5X1.5X0.125	-0.46	1.2D + 1.6W 60	4.563	100	100	100	185.0	36.0	2.38	1	1	7.95	6.96	19	Member Z
DIAG SAE - 1.5X1.5X0.125	-1.65	1.2D + 1.6W 90	6.769	50	50	50	137.2	36.0	4.32	1	1	7.95	6.96	38	Member Z

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phit Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG PST - 2-1/2" DIA PIP	1.22	1.2D + 1.6W 60	50	65	76.68	0	0	0.00	0.00	1	Member
HORIZ SAE - 1.5X1.5X0.125	0.47	1.2D + 1.6W	36	58	9.20	1	1	0.00	6.96	5	Member
DIAG SAE - 1.5X1.5X0.125	1.64	1.2D + 1.6W 90	36	58	9.20	1	1	0.00	6.96	17	Member

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	0.00		0.00	0	0	
Top Compression	2.71	1.2D + 1.0Di +	0.00	0		
Bot Tension	3.61	0.9D + 1.6W 60	81.36	4	4	5/8 A325
Bot Compression	5.02	1.2D + 1.6W	0.00	0		

Site Number: 302536
Location: Cherry Hill-branford, CT
Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure : B
Topo : 1



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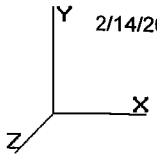
Support Forces Summary

Load Case	Node	FX (kip)	FY (kip)	FZ (kip)	(-) = Uplift (+) = Down
1.0D + 1.0W Service 90 deg	1b	-1.75	-25.02	-0.94	
	1a	-2.33	35.48	1.28	
	1	-0.12	5.31	-0.34	
1.0D + 1.0W Service 60 deg	1b	-2.01	-29.43	-1.16	
	1a	-1.49	22.55	0.75	
	1	-0.10	22.64	-1.67	
1.0D + 1.0W Service Normal	1b	-0.85	-12.66	-0.61	
	1a	0.85	-12.66	-0.61	
	1	0.00	41.08	-3.09	
1.2D + 1.0Di + 1.0Wi 90 deg	1b	-2.15	-14.32	-1.09	
	1a	-4.13	73.57	2.25	
	1	-0.27	29.88	-1.15	
1.2D + 1.0Di + 1.0Wi 60 deg	1b	-2.55	-20.95	-1.48	
	1a	-2.87	54.91	1.41	
	1	-0.23	55.17	-3.20	
1.2D + 1.0Di + 1.0Wi Normal	1b	-0.68	4.07	-0.66	
	1a	0.68	4.07	-0.66	
	1	0.00	80.99	-5.28	
0.9D + 1.6W 90 deg	1b	-10.56	-156.94	-5.77	
	1a	-10.91	166.34	6.05	
	1	-0.59	4.79	-0.27	
0.9D + 1.6W 60 deg	1b	-11.95	-180.47	-6.92	
	1a	-6.50	97.26	3.27	
	1	-0.47	97.39	-7.27	
0.9D + 1.6W Normal	1b	-5.80	-90.90	-3.98	
	1a	5.80	-90.90	-3.98	
	1	0.00	195.99	-14.74	
1.2D + 1.6W 90 deg - Pat3	1b	-10.34	-152.98	-5.64	
	1a	-10.88	165.51	6.02	
	1	-0.60	6.38	-0.38	
1.2D + 1.6W 90 deg - Pat2	1b	-7.11	-114.54	-4.05	
	1a	-7.74	127.08	4.44	
	1	-0.15	6.38	-0.39	
1.2D + 1.6W 90 deg - Pat1	1b	-10.47	-155.75	-5.73	
	1a	-11.01	168.28	6.10	
	1	-0.58	6.38	-0.38	
1.2D + 1.6W 60 deg - Pat3	1b	-11.72	-176.20	-6.79	
	1a	-6.52	97.48	3.27	
	1	-0.48	97.63	-7.29	
1.2D + 1.6W 60 deg - Pat2	1b	-8.16	-132.36	-4.74	
	1a	-4.61	75.56	2.59	
	1	-0.11	75.71	-5.29	

Site Number: 302536
Location: Cherry Hill-branford, CT
Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure : B
Topo : 1



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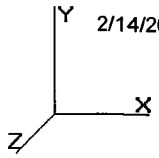
1.2D + 1.6W 60 deg - Pat1	1b	-11.87	-179.33	-6.88
	1a	-6.59	99.04	3.33
	1	-0.46	99.20	-7.37
1.2D + 1.6W Normal - Pat3	1b	-5.63	-87.86	-3.89
	1a	5.63	-87.86	-3.89
	1	0.00	194.63	-14.67
1.2D + 1.6W Normal - Pat2	1b	-3.98	-64.85	-2.45
	1a	3.98	-64.85	-2.45
	1	0.00	148.61	-10.47
1.2D + 1.6W Normal - Pat1	1b	-5.72	-89.56	-3.92
	1a	5.72	-89.56	-3.92
	1	0.00	198.03	-14.85

Max Uplift:	180.47 (kip)	Moment:	1,784.91 (ft-kip)	1.2D + 1.6W Normal - Pat1
Max Down:	198.03 (kip)	Total Down:	18.91 (kip)	
Max Shear:	14.85 (kip)	Total Shear:	22.70 (kip)	

Site Number: 302536
Location: Cherry Hill-branford, CT
Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure : B
Topo : 1



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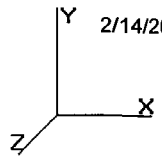
Deflections and Rotations

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)
Serviceability - 60.00 Wind 60 deg	88.05	0.1808	-0.0056	0.2679
	104.15	0.2619	0.0054	0.3011
	111.95	0.3044	0.0052	0.3167
	125.00	0.3771	0.0051	0.3182
Serviceability - 60.00 Wind 90 deg	88.05	0.1818	-0.0072	0.2678
	104.15	0.2632	0.0032	0.3034
	111.95	0.3059	0.0030	0.3180
	125.00	0.3790	0.0029	0.3210
Serviceability - 60.00 Wind Normal	88.05	0.1863	0.0000	0.2794
	104.15	0.2697	0.0056	0.3097
	111.95	0.3132	0.0054	0.3255
	125.00	0.3880	0.0052	0.3285
110.00 mph 60 deg with No Ice (Reduced DL)	88.05	0.9713	-0.0201	1.4440
	104.15	1.4094	0.0389	1.6235
	111.95	1.6378	0.0393	1.7057
	125.00	2.0303	0.0393	1.7192
110.00 mph 60 deg with No Ice - Pattern 1	88.05	0.9747	-0.0202	1.4500
	104.15	1.4146	0.0390	1.6304
	111.95	1.6440	0.0394	1.7130
	125.00	2.0382	0.0394	1.7264
110.00 mph 60 deg with No Ice - Pattern 2	88.05	0.7641	-0.0117	1.1728
	104.15	1.1226	0.0264	1.3388
	111.95	1.3117	0.0267	1.4146
	125.00	1.6377	0.0267	1.4301
110.00 mph 60 deg with No Ice - Pattern 3	88.05	0.9546	-0.0202	1.4154
	104.15	1.3835	0.0385	1.5885
	111.95	1.6069	0.0389	1.6672
	125.00	1.9904	0.0390	1.6784
110.00 mph 90 deg with No Ice (Reduced DL)	88.05	0.9777	-0.0449	1.4452
	104.15	1.4171	0.0235	1.6376
	111.95	1.6477	0.0238	1.7154
	125.00	2.0420	0.0238	1.7327
110.00 mph 90 deg with No Ice - Pattern 1	88.05	0.9810	-0.0450	1.4510
	104.15	1.4222	0.0235	1.6444
	111.95	1.6538	0.0239	1.7226
	125.00	2.0497	0.0238	1.7400
110.00 mph 90 deg with No Ice - Pattern 2	88.05	0.7677	-0.0315	1.1703
	104.15	1.1272	0.0159	1.3486
	111.95	1.3178	0.0161	1.4206
	125.00	1.6449	0.0161	1.4405
110.00 mph 90 deg with No Ice - Pattern 3	88.05	0.9604	-0.0446	1.4157
	104.15	1.3906	0.0232	1.6015
	111.95	1.6161	0.0235	1.6758
	125.00	2.0010	0.0235	1.6906
110.00 mph Normal to Face with No Ice (Reduced	88.05	0.9985	0.0000	1.5016
	104.15	1.4472	0.0360	1.6653
	111.95	1.6822	0.0360	1.7493
	125.00	2.0844	0.0363	1.7638

Site Number: 302536
Location: Cherry Hill-branford, CT
Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure : B
Topo : 1



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110.00 mph Normal to Face with No Ice - Pattern 1	88.05	1.0020	0.0000	1.5079
	104.15	1.4527	0.0361	1.6726
	111.95	1.6887	0.0360	1.7571
	125.00	2.0927	0.0363	1.7717
110.00 mph Normal to Face with No Ice - Pattern 2	88.05	0.7809	0.0000	1.2175
	104.15	1.1463	0.0246	1.3661
	111.95	1.3398	0.0246	1.4435
	125.00	1.6723	0.0248	1.4604
110.00 mph Normal to Face with No Ice - Pattern 3	88.05	0.9802	0.0000	1.4706
	104.15	1.4192	0.0358	1.6274
	111.95	1.6487	0.0358	1.7076
	125.00	2.0410	0.0360	1.7199
50.00 mph 60 deg with 1.25 in Radial Ice	88.05	0.2534	-0.0098	0.3655
	104.15	0.3631	0.0100	0.4032
	111.95	0.4197	0.0098	0.4238
	125.00	0.5168	0.0097	0.4279
50.00 mph 90 deg with 1.25 in Radial Ice	88.05	0.2535	-0.0124	0.3638
	104.15	0.3628	0.0059	0.4042
	111.95	0.4195	0.0059	0.4229
	125.00	0.5161	0.0058	0.4272
50.00 mph Normal with 1.25 in Radial Ice	88.05	0.2565	0.0000	0.3736
	104.15	0.3677	0.0099	0.4096
	111.95	0.4252	0.0097	0.4283
	125.00	0.5234	0.0096	0.4324
	125.00	0.0000	0.0000	0.0000

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KMW Communications
Base Station Antennas
For Mobile Communications

AM-X-CD-14-65-00T-RET (4' 65° Dual Broadband Antenna)

Dual Band Electrical DownTilt Antenna

698 ~ 894MHz, X-pol., H65° / V17.0°
1710 ~ 2170MHz, X-pol., H65° / V8.5°

Electrical Specification

Frequency Range		698~894MHz	1710~2170MHz
Impedance		50Ω	
Polarization		Dual, Slant ±45°	
Gain		14.0dBi / 11.85dBd @ 698-806MHz 14.8dBi / 12.65dBd @ 824-894MHz	16.1dBi / 13.95dBd @1710-1755MHz 16.3dBi / 14.15dBd @1850-1900MHz 16.0dBi / 13.85dBd @2110-2155MHz
Beamwidth	Horizontal	67° @ 698-806MHz 65° @ 824-894MHz	60° @ 1710-1755MHz 61° @ 1850-1900MHz 64° @ 2110-2155MHz
	Vertical	17.5 @ 698-806MHz 16.5° @ 824-894MHz	8.8° @ 1710-1755MHz 8.5° @ 1850-1900MHz 8.0° @ 2110-2155MHz
VSWR		≤1.5:1	
Front-to-Back Ratio		≥28 dB	
Electrical Downtilt Range		2° ~ 16°	0° ~ 10°
Isolation Between Ports		≥30 dB	
Isolation Between Ports of Different Frequency Elements		≥35 dB	
Cross Pole Discrimination		10.0 dB @ ±60° 15.0 dBi @ 0°	
First Upper Side Lobe Suppression		16dB	
Side Lobe Suppression		> 16dB @ 0-6° Tilt > 18dB @ 7-12° Tilt (Up to 15° from Boresight)	> 16dB @ 0-6° Tilt > 18dB @ 7-10° Tilt (Up to 15° from Boresight)
Passive Intermodulation		≤ -150 dBc @ 2x20w	
Input Maximum CW Power		500 W	300 W
Environmental Compliance		IP65 for Radome IP67 for Connectors	
RET Motor Configuration		Field Replaceable RET Electronic Control Module / RET Motor is internal to antenna & not field replaceable	
Compliant with AISG 1.1 and 2.0		AISG 1.1 and 2.0	

Mechanical Specification

Dimension (W×D×H)	11.8×5.9×48 inches (300×150×1219mm)
Weight (Without clamp)	16.5 kg (36.4 lbs)
Connector	4 x 7/16 DIN(F), Long Neck
Max Wind Speed	150mph
Wind Load (@150 mph)	1260 N

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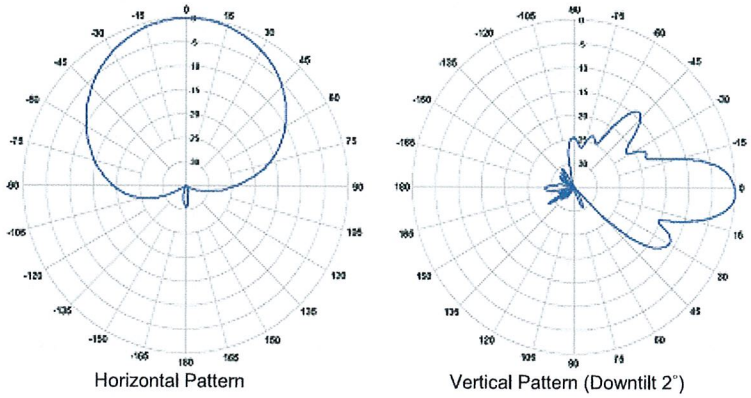
AM-X-CD-14-65-00T-RET (4' 65° Dual Broadband Antenna)

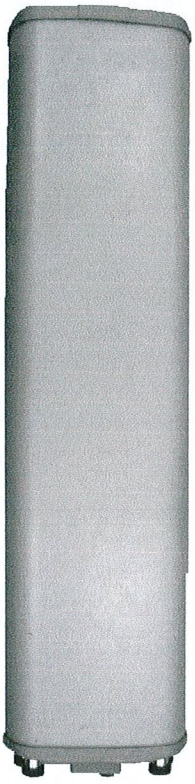
KMW Communications
Base Station Antennas
For Mobile Communications

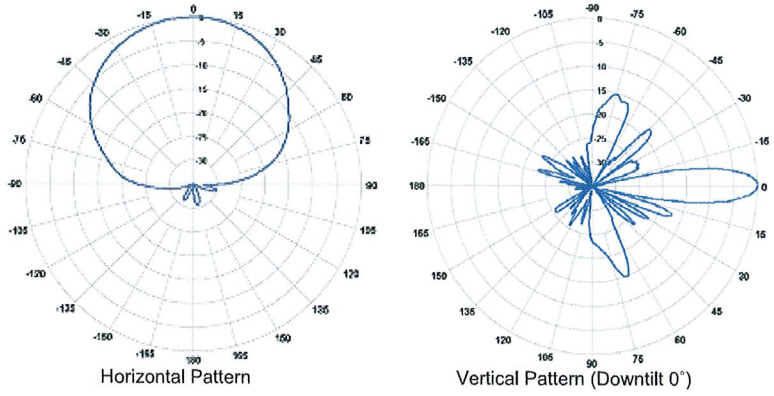


Horizontal Pattern

Vertical Pattern (Downtilt 2°)

700MHz band Pattern

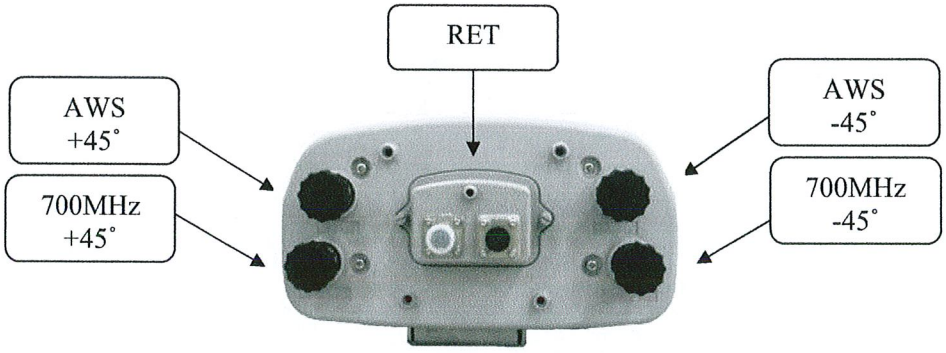




Horizontal Pattern

Vertical Pattern (Downtilt 0°)

AWS band Pattern



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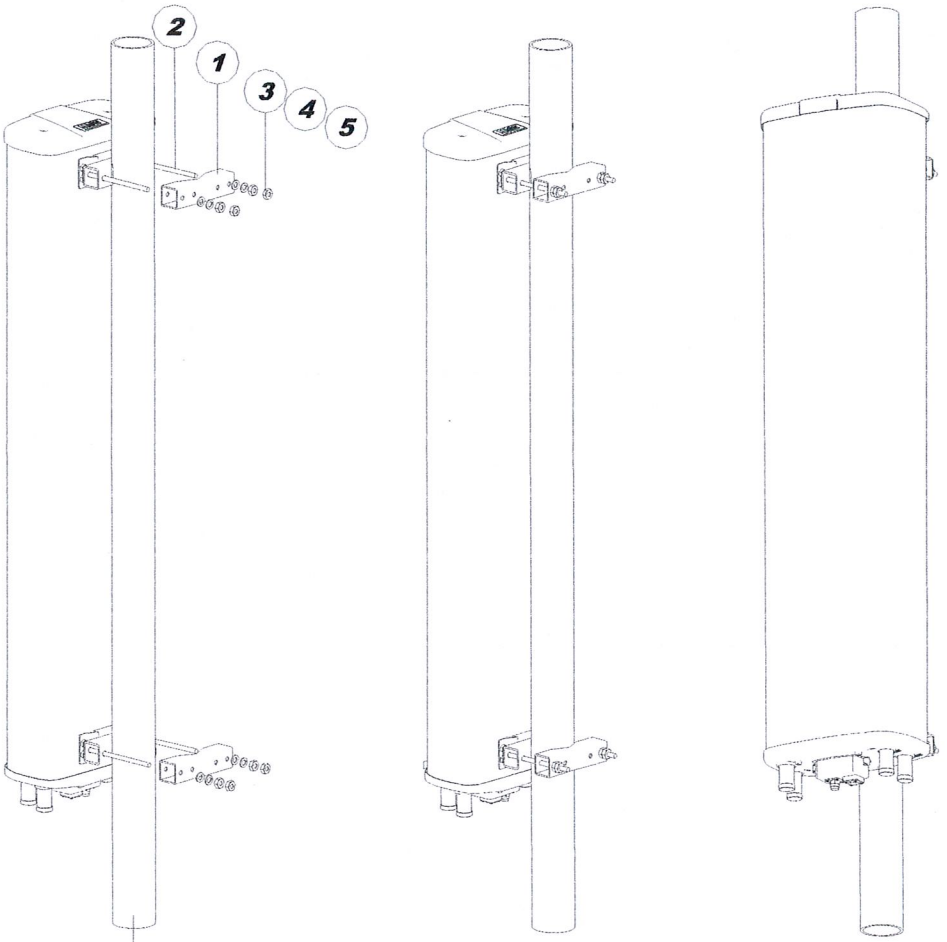
KMW Communications
Base Station Antennas
For Mobile Communications

AM-X-CD-14-65-00T-RET (4' 65° Dual Broadband Antenna)

Antenna Drawings and Installation Diagram



MOUNT POLE
Ø1.97 ~ 3.15inch OD.
(50 ~ 80mm OD.)

STANDARD MOUNTING KITS

No.	PART NAME	Q'TY	Recommending Torque
1	FIXED CLAMP	4	
2	Hex. Cap Bolt, M10	4	17mm Spanner 208lbf.inch 240kgf.cm
3	Plain Washer, M10	4	
4	Spring Washer, M10	4	
5	Hex. Nut, M10	8	

RRUS 11 – Dual PA RRU.

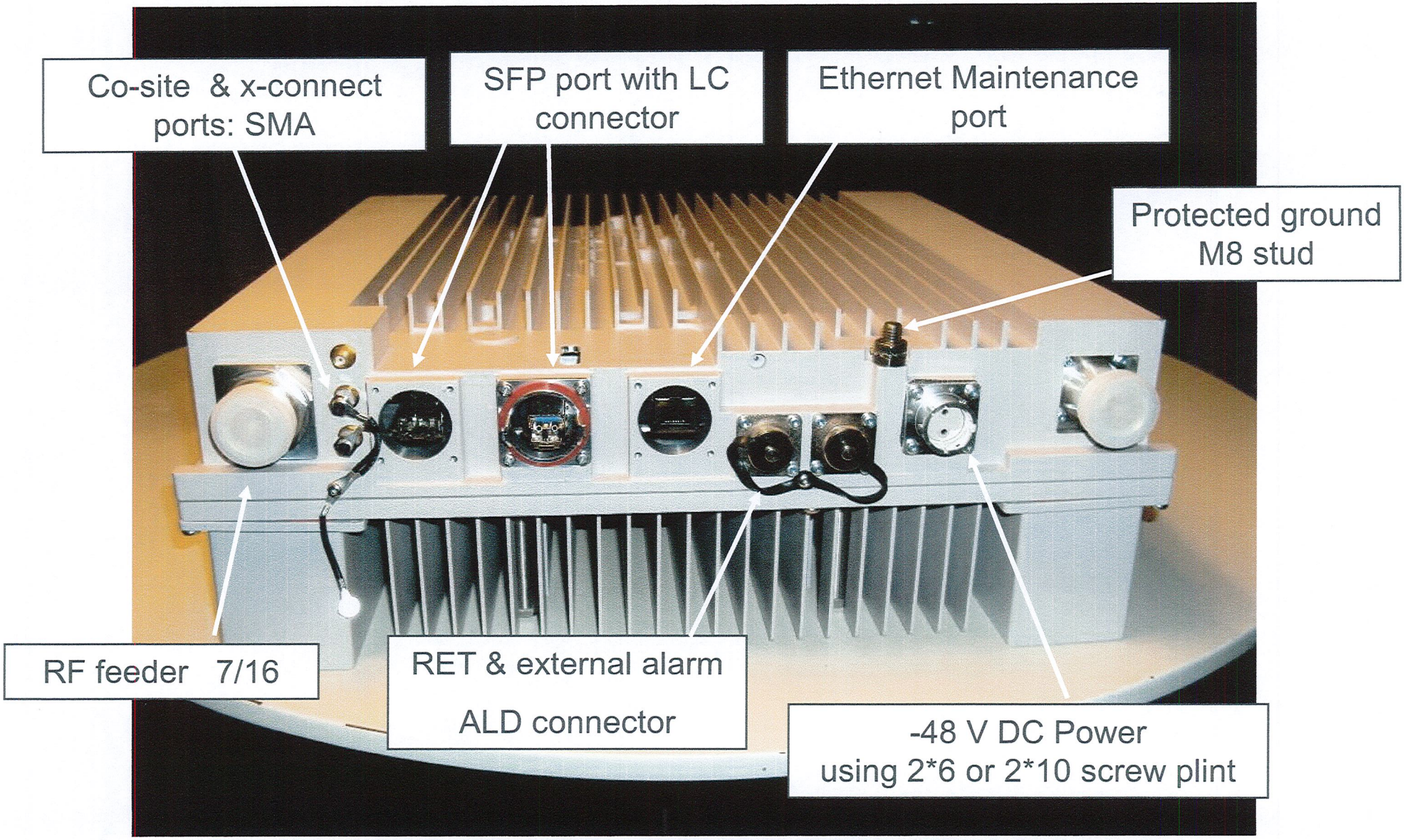
Technical Data

RBS6000

- Multi standard
- RF: 2x30 Watts
- Carrier BW: 1.4 – 20 MHz
- Alarms: 2
- Dimensions (with sunshield):
  - Width: 17.0 in
  - Height: 17.8 in
  - Depth: 7.2 in
  - Weight: 55 lbs (Band 12)
  - Weight: 50 lbs (Band 4)
- Temperature: -40 to +131 F
- Cooling: Self convection
- Power: -48 VDC
- Rec. fuse size 20 Amp
  - Rec. DC cable:
    - 6 mm^2 up to 60 meters
    - 10 mm^2 over 60 meters
    - Shielded
- Power Cons: 200 Watts typ.

RRUS-11 I/F

RBS6000



POWER

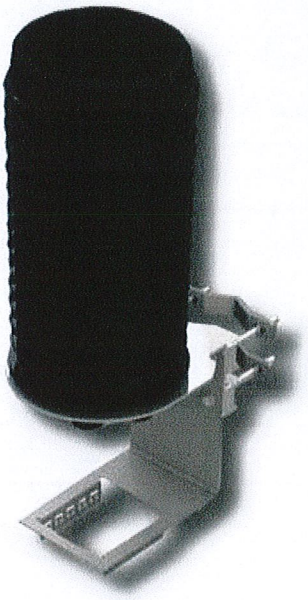
DC6-48-60-18-8F

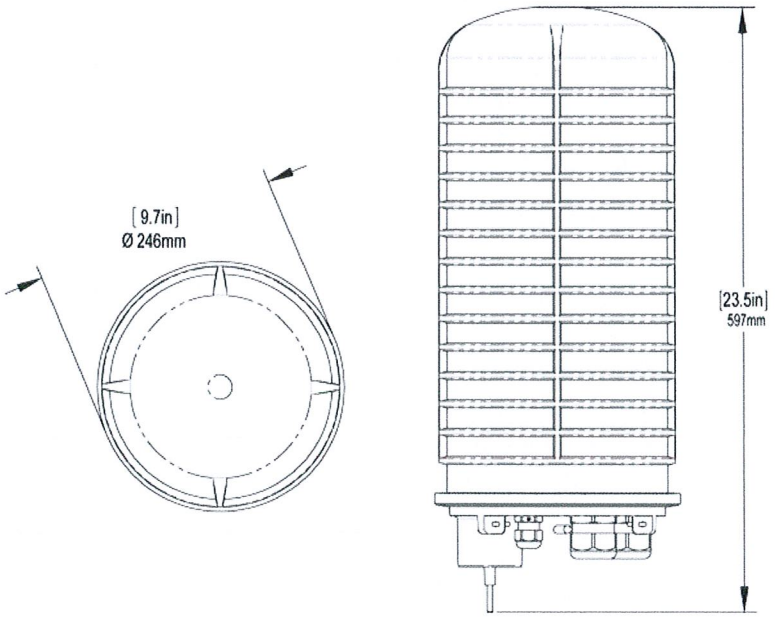
DC Surge Suppression Solution

The DC6-48-60-18 is a dual chambered, DC surge suppression system for use in multi-circuit, Distributed Antenna Systems. The system will protect up to 6 Remote Radio Heads from voltage surges and lightning, and connect up to 18 fiber pairs. The system is enclosed in a NEMA 4 rated, waterproof enclosure.

FEATURES

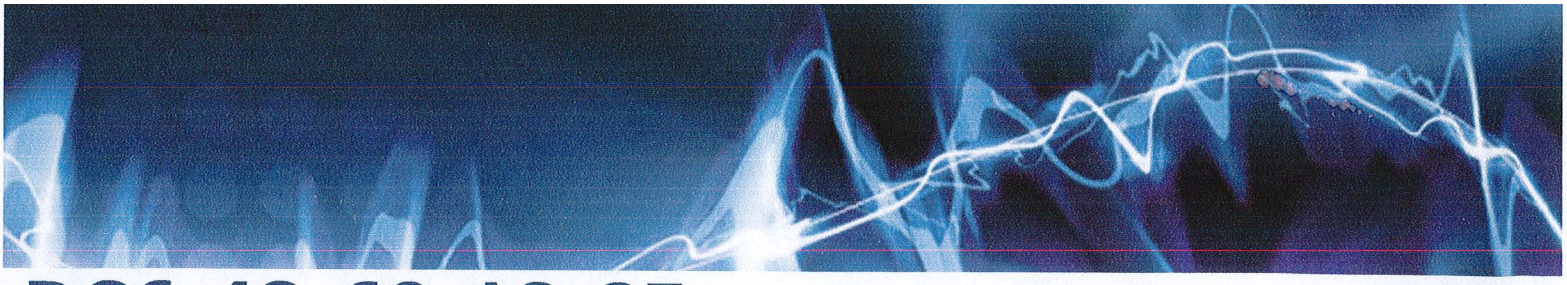
- Protects up to 6 Remote Radio Heads, each with its own protection circuit.
- Flexible design allows for installation at the top of a tower for Remote Radio Head protection.
- Includes fiber connections for up to 18 pairs of fiber.
- LED indicators on individual circuits provide visual indication of suppressor status.
- Form 'C' relays allow for remote monitoring of the suppressor status.
- Patented Strikesorb technology provides over 60 kA of surge current capacity per circuit.
- Strikesorb suppression modules are fully recognized to UL 1449-3rd Edition Safety Standard, meeting all intermediate and high current fault requirements to facilitate use in OEM applications.
- Raycap recommends that DC protection system be installed within 2 meters or 6 feet of the radio.
- Dome design is lightweight and aerodynamic providing maximum flexibility for installation on top of towers.





Raycap

Phone 208.777.1166 Toll Free 800.890.2569 Fax 208.777.4466 www.raycapsurgeprotection.com



DC6-48-60-18-8F

DC Power Surge Protection

Electrical Specifications	
Model Number	DC6-48-60-18-8F
Nominal Operating Voltage	48 VDC
Nominal Discharge Current (I_n)	20 kA 8/20 µs
Maximum Discharge Current (I_{max}) per NEMA LS-1	60 kA 8/20 µs
Maximum Continuous Operating Voltage (U_c)	75 VDC
Voltage Protection Rating	400 V

Mechanical Specifications	
Suppression Connection Method	Compression lug, #2-#14 AWG Copper, #2-#12 Aluminum
Fiber Connection Method	LC-LC Single mode duplex
Environmental Rating	IP 68, 7m 72hrs
Operating Temperature	-40° C to + 80° C
Storage Temperature	-70° C to + 80° C
Cold Temperature Cycling	IEC 61300-2-22e -30° C to + 60° C 200 hrs @ 5 psi
Resistance to Aggressive Materials	CEI IEC 61073-2 including acids and bases
UV Protection	ISO 4892-2 Method A Xenon-Arc 2160 hrs
Weight	20 lbs without Mounting Bracket

STANDARDS

Strikesorb modules are compliant to the following Surge Protection Device (SPD) Standards:

- ANSI/UL 1449 – 3rd Edition
- IEEE C62.41
- NEMA LS-1, IEC 61643-1:2005 2nd Edition:2005
- IEC 61643-12
- EN 61643-11:2002 (including A11:2007)

GS-07F-0435V

Certified to ISO 9001:2000

TÜV Rheinland of North America

Raycap

G02-00-068 REV 050610

Raycap, Inc. 806 W. Clearwater Loop • Post Falls • Idaho • 83854 • USA
Phone 208.777.1166 • Toll Free 800.890.2569 • Fax 208.777.4466 • www.raycapsurgeprotection.com

New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 463-5511
Fax: (860) 513-7190

Douglas L. Culp
Real Estate Consultant

March 11, 2011

Honorable Anthony DaRos
1st Selectman, Town of Branford
Town Hall
1019 Main Street
Branford, CT 06405

Re: Telecommunications Facility – 4 Beaver Road Branford, CT

Honorable Mr. DaRos:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System ("UMTS") and Long Term Evolution ("LTE") capabilities, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC ("AT&T") will be changing its equipment configuration at certain cell sites.

As required by Regulations of Connecticut State Agencies ("R.C.S.A.") Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review AT&T's proposal. Please accept this letter as notification under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The accompanying letter to the Siting Council fully describes Cingular's proposal for the referenced cell site. However, if you have any questions or require any further information on our plans or the Siting Council's procedures; please call me at (860) 463-5511 or Ms. Linda Roberts, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Douglas L. Culp
Real Estate Consultant

Enclosure