



February 18, 2016

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

**Re: Notice of Exempt Modification – Antenna Swap**  
**Property Address: 185/203 Research Dr. Milford, Ct 06460 (the “Property”)**  
**Applicant: AT&T Mobility, LLC**

Dear Ms. Bachman:

On behalf of AT&T, please accept this application as notification pursuant to R.C.S.A. §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. §16-50j-72(b) (2).

AT&T currently maintains a wireless telecommunications facility consisting of nine (9) wireless telecommunication antennas at an antenna center line height of 167-feet on an existing 185 – self-support lattice tower, owned by American Tower and located at 46 Meadow Rd, Clinton, CT 06413. AT&T now intends to replace (3) Power 7770 with three (3) CCI OPA-65R-LCUU-H4 panel antennas on the existing mounts. The other six (6) will remain as is (for a total of (9) panel antennas), at the 167-foot level. AT&T also intends to install 3 RRU-32's on the existing antenna masts mounted on unistrut and keep existing twin TMA and connect the RET to the UMTS antenna. AT&T also will install one DC-6 and all associated fiber and DC cabling

This facility was approved the Milford Planning and Zoning Receipt # 104536 on October 25<sup>th</sup> 1994 for a certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of telecommunications antennas, associated equipment, and building to provide Domestic Public Cellular radio Telecommunication service in the New Haven, Connecticut Metropolitan New England area. This approval included the following original conditions, including the total facility height or mounting restrictions. This modification complies with the aforementioned conditions.

1. The 185 monopole with antenna array that will not extend more than fourteen feet of the original height.



The following is a list of subsequent decisions:

**EM-CING-084-110314** - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 203 Research Drive, **Milford**, Connecticut.

**EM-CING-084-148-014-060623** - New Cingular Wireless PCS, LLC notice of intent to modify existing telecommunications facilities located at 185 Research Drive, Milford; 100 Northrop Road, Wallingford; 90 North Plains Industrial Road, Wallingford; and 4 Beaver Road, Branford, Connecticut.

**EM-CING-084-080917** - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 185 Research Drive, Milford, Connecticut.

**EM-CLEARWIRE-084-100504** – Clearwire Corporation notice of intent to modify an existing telecommunications facility located at 185 Research Drive, Milford, Connecticut.

Please accept this letter pursuant to Regulation of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-510j-72(b) (2). In accordance with R.C.S.A., a copy of this letter is being sent to Benjamin G Blake, Mayor, City of Milford, 110 River St Milford, CT 06460. A copy of this letter is also being sent to American Tower Corporation-Tower Owner- at 116 Huntington Ave., 11th floor, Boston, MA 02116 and D'Amato Investments LLC., 183 Quarry Rd, Milford, CT 06460



The planned modifications to AT&T's facility fall squarely within those activities explicitly provided for in R.C.S.A. §16-50j-72(b) (2).

1. The proposed modifications will not result in an increase in the height of the existing tower. AT&T's replacement antennas will be installed at the 167-foot level of the 185-foot monopole.
2. The proposed modifications will not involve any changes to ground-mounted equipment and, therefore, will not require an extension of the site boundary.
3. The proposed modifications will not increase the noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the modified facility will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative worst-case RF emissions calculation for AT&T's modified facility is provided in the RF Emissions Compliance Report, included in Tab 2.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The tower and its foundation can support AT&T's proposed modifications. (See Structural Analysis Report included in Tab 3).

For the foregoing reasons, AT&T respectfully submits that the proposed modifications to the above referenced telecommunications facility constitutes an exempt modification under R.C.S.A. §16-50j-72(b) (2).

Sincerely,

David Barbagallo

Enclosures

CC w/enclosures:

| Benjamin G. Blake, Mayor, City of Milford.  
Tower Owner - American Tower Corporation  
Property Owner – D'Amato Investments LLC.

33 Boston Post Road West, Marlborough, MA 01752



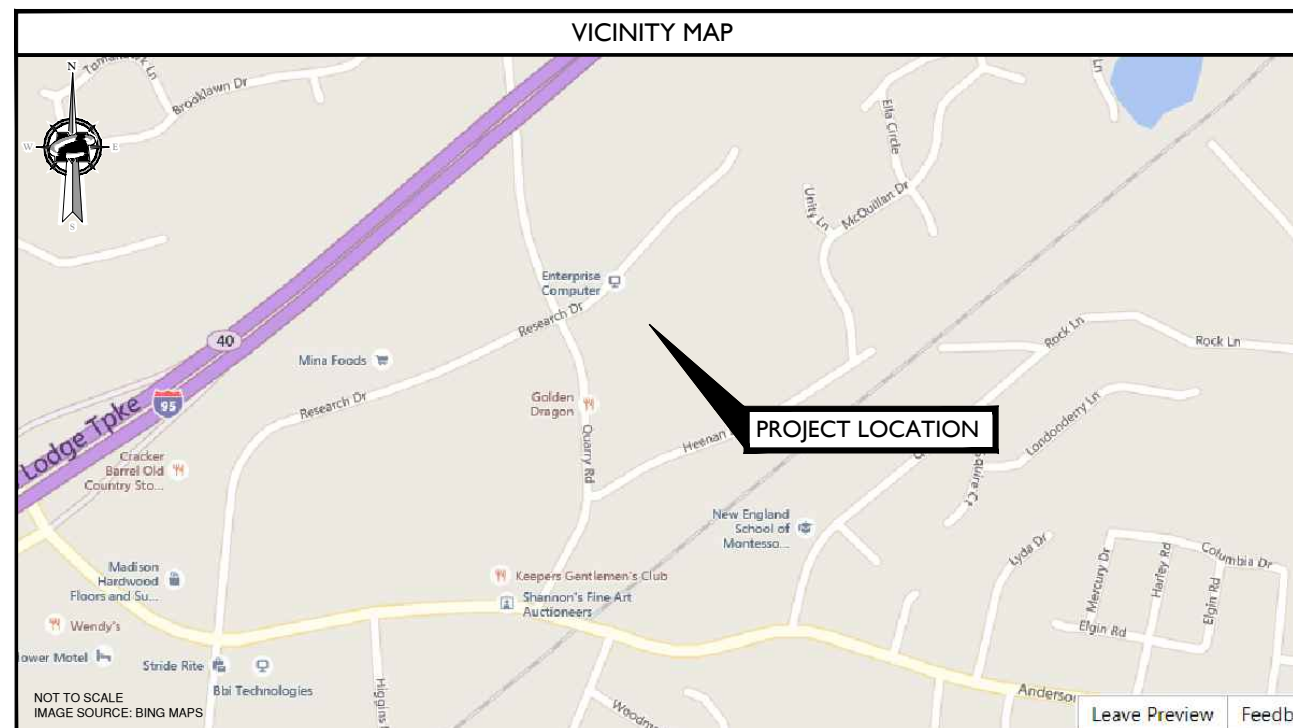




**SITE NAME: NEW HAVEN - WOODMONT**  
**FA NUMBER: 10035075**  
**SITE NUMBER: CTL02169**

**203 RESEARCH DRIVE**  
**MILFORD, CT 06460**  
**COUNTY: NEW HAVEN**

**AMERICAN TOWER SITE NAME: MILFORD CT**  
**AMERICAN TOWER NUMBER: 302535**



PROJECT TEAM	
<b>CLIENT REPRESENTATIVE</b>	
COMPANY:	SMARTLINK, LLC
ADDRESS:	1362 MELLON ROAD, SUITE 140
CITY, STATE, ZIP:	HANOVER, MD 21076
CONTACT:	RICH WAGNER
E-MAIL:	RWAGNER@SMARTLINKLLC.COM
<b>SITE ACQUISITION</b>	
COMPANY:	SMARTLINK, LLC
ADDRESS:	33 BOSTON POST ROAD WEST, SUITE 210
CITY, STATE, ZIP:	MARLBOROUGH, MA 01752
CONTACT:	TODD OLIVER
PHONE:	(774) 369-3618
E-MAIL:	TODD.OLIVER@SMARTLINKLLC.COM
<b>ENGINEER</b>	
COMPANY:	MASER CONSULTING P.A.
ADDRESS:	400 VALLEY ROAD, SUITE 304
CITY, STATE, ZIP:	MT. ARLINGTON, NJ 07856
CONTACT:	FRANK PAZDEN
PHONE:	(973) 398-3110 x4505
E-MAIL:	FPAZDEN@MASERCONSULTING.COM
<b>RF ENGINEER</b>	
COMPANY:	NEW CINGULAR WIRELESS PCS, LLC
ADDRESS:	550 COCHITUATE RD.
CITY, STATE, ZIP:	FRAMINGHAM, MA 01701
CONTACT:	CAMERON SYME
E-MAIL:	CS6970@ATT.COM
<b>CONSTRUCTION MANAGER</b>	
COMPANY:	SMARTLINK, LLC.
ADDRESS:	33 BOSTON POST ROAD WEST, SUITE 210
CITY, STATE, ZIP:	MARLBOROUGH, MA 01752
CONTACT:	MARK DONNELLY
PHONE:	(617) 515-2080
E-MAIL:	MARK.DONNELLY@SMARTLINKLLC.COM

SITE INFORMATION	
<b>APPLICANT/LESSEE</b>	
NEW CINGULAR WIRELESS PCS, LLC 550 COCHITUATE RD. FRAMINGHAM, MA 01701	
<b>PROPERTY/TOWER OWNER:</b>	
NAME:	AMERICAN TOWER
ADDRESS:	116 HUNTINGTON AVE., 11TH FLOOR
CITY, STATE, ZIP:	BOSTON, MA 02116
SITE ID #:	302535
LATITUDE:	41.2404° N
LONGITUDE:	73.011925° W
LAT./LONG. TYPE:	NAD 83
AREA OF CONSTRUCTION:	EXISTING EQUIPMENT SHELTER AND MONOPOLE
ZONING/JURISDICTION:	CITY OF MILFORD
CURRENT USE/PROPOSED USE:	UNMANNED TELECOMMUNICATIONS FACILITY
HANDICAP REQUIREMENTS:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.
CONSTRUCTION TYPE:	IIB
USE GROUP:	U

CODE COMPLIANCE	
ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.	
1. CONNECTICUT STATE BUILDING CODE (2005) & ALL SUBSEQUENT AMENDMENTS	6. AMERICAN INSTITUTE OF STEEL CONSTRUCTION 14 ED.
2. NATIONAL ELECTRIC CODE 2011	7. EIA/TIA-222 REVISION F
3. NATIONAL FIRE PROTECTION ASSOCIATION 70 - 2011	8. TIA 607 FOR GROUNDING
4. LIGHTNING PROTECTION CODE 2011	9. INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS 81
5. AMERICAN CONCRETE INSTITUTE 318	10. IEEE C2 LATEST EDITION
	11. TELCORDIA GR-1275 I2, ANSI T1.311

GENERAL CONTRACTOR NOTES	
<b>DO NOT SCALE DRAWINGS</b>	
CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.	

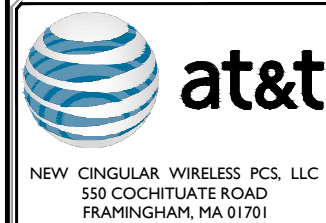
GENERAL NOTES	
THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE. NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.	

SHEET	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES
A-1	COMPOUND PLAN AND EQUIPMENT PLAN
A-2	ELEVATION VIEW AND ANTENNA SCHEDULE
A-3	ANTENNA LAYOUTS
A-4	DETAILS
A-5	RF PLUMBING DIAGRAMS
G-1	GROUNDING DETAILS

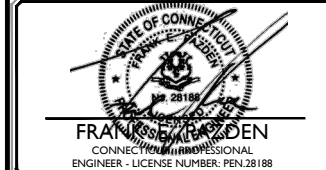
PROJECT DESCRIPTION/SCOPE OF WORK	
LTE WCS WILL BE 3C AT THE SITE WITH BRONZE STANDARD CONFIGURATION.	
PROPOSED PROJECT SCOPE HEREIN BASED ON RFDS ID# 709116, VERSION 1.00, LAST UPDATED 06/26/15.	
THIS PROJECT WILL BE COMPRISED OF:	
<ul style="list-style-type: none"> <li>(3) NEW ANTENNAS TO REPLACE (3) EXISTING ANTENNAS, (1) PER SECTOR</li> <li>(3) NEW LTE RRHS, (1) PER SECTOR</li> <li>ADD (1) FIBER CABLE</li> <li>ADD (1) DC TRUNK CABLE</li> <li>ADD (1) FIBER/DC SQUID</li> <li>REMOVE TOP DIPLEXERS ON GSM ANTENNA</li> </ul>	



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SCALE:	JOB NUMBER:
AS SHOWN	15946024A
1	02/04/16
0	10/27/15
REV	DATE
	DESCRIPTION
	DRAWN BY
	CHECKED BY



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSIBLE LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**SITE NAME:**  
**NEW HAVEN - WOODMONT**  
**FA# 10035075**  
**SITE # CTL02169**  
**AMERICAN TOWER SITE #: 302535**  
**203 RESEARCH DRIVE**  
**MILFORD, CT 06460**  
**COUNTY OF NEW HAVEN**



SHEET TITLE:
TITLE SHEET
SHEET NUMBER:
T-1

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1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING 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 GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 50 HNS OR LESS.
4. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
5. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
6. 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.
7. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE EQUIPMENT GROUND RING WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
8. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
9. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING, SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
10. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
11. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED. ALL BENDS SHALL BE MADE WITH 12" RADIUS OR LARGER.
12. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
13. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS EXCEPT FOR GROUND BAR CONNECTION FROM MGB TO OUTSIDE EXTERIOR GROUND SHALL ALL BE CADWELD CONNECTIONS.
14. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
15. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED TO THE TOWER GROUND BAR.
16. APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
17. ALL EXTERIOR AND INTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
18. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
19. BOND ALL METALLIC OBJECTS WITHIN 6 FT OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
20. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G. NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
21. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/4" 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.

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:  
 CONTRACTOR – SMARTLINK  
 SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)  
 OWNER – AT&T (NEW CINGULAR WIRELESS PCS, LLC)
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
3. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
4. 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.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
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. 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.
10. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
11. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE RESPONSIBLE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
12. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
13. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION.
14. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
15. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
16. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
17. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
18. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
19. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.


20. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
21. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR.
22. 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.
23. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
24. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS.
25. 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.
26. CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T MOBILITY SITES."
27. 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.
28. 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.
29. 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 ALERT OF DANGEROUS EXPOSURE LEVELS.

**MASER CONSULTING P.A.**  
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Office Locations:  
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**smartlink**  
 1362 MELLON ROAD  
 SUITE 140  
 HANOVER, MD 21076  
 TEL: (410) 582-8043 FAX: (443) 221-2962

  
 NEW CINGULAR WIRELESS PCS, LLC  
 550 COCHITUATE ROAD  
 FRAMINGHAM, MA 01701

 PROTECT YOURSELF  
 ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DIG THE EARTH'S SURFACE ANYWHERE IN ANY STATE.  
 Know what's below.  
 Call before you dig.  
 FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM


SCALE:	JOB NUMBER:
AS SHOWN	15946024A


1	02/04/16	REVISED PER SMARTLINK'S COMMENTS	SMG	FEP
0	10/27/15	ISSUED FOR REVIEW	RAP/KRO	FEP
REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY

  
**FRANK J. PADDEN**  
 CONNECTICUT PROFESSIONAL ENGINEER - LICENSE NUMBER: PEN 28188

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSIBLE LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**SITE NAME:**  
 NEW HAVEN - WOODMONT  
 FA# 10035075  
 SITE # CTL02169  
 AMERICAN TOWER SITE #: 302535  
 203 RESEARCH DRIVE  
 MILFORD, CT 06460  
 COUNTY OF NEW HAVEN

 **MT. ARLINGTON OFFICE**  
 400 Valley Road  
 Suite 304  
 Mount Arlington, NJ 07856  
 Phone: 973.398.3110  
 Fax: 973.398.3199  
 email: solutions@maserconsulting.com

SHEET TITLE:  
**GENERAL NOTES**

SHEET NUMBER:  
**GN-1**

10/13/2015 10:00 AM C:\Users\jason\Documents\11000009\_AJ01\_0215\_CTL02169\_Plan\_CD.dwg (GN-1) By: TPO/NAW

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**smartlink**  
 1362 MELLON ROAD  
 SUITE 140  
 HANOVER, MD 21076  
 TEL: (410) 582-8043 FAX: (443) 221-2962

**at&t**  
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**FRANK R. WILKINSON**  
 REGISTERED PROFESSIONAL ENGINEER - LICENSE NUMBER: PEN 28188

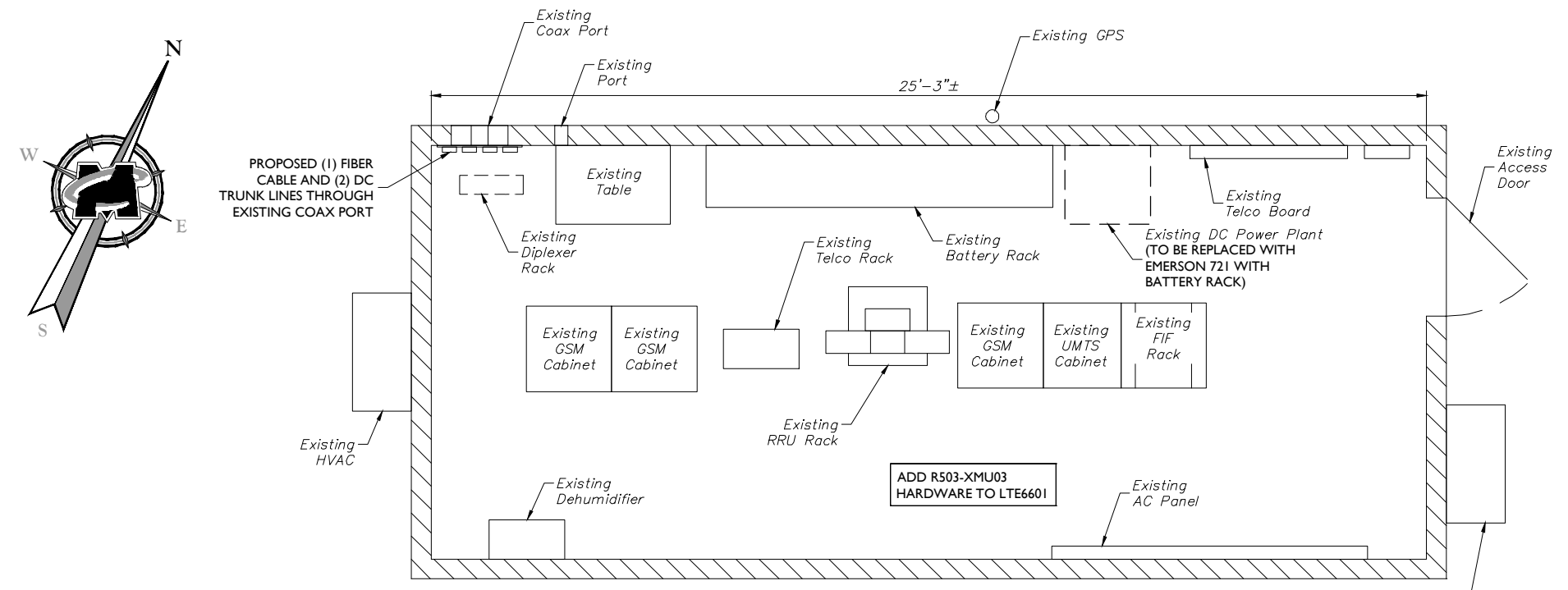
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 SITE # CTL02169  
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 MILFORD, CT 06460  
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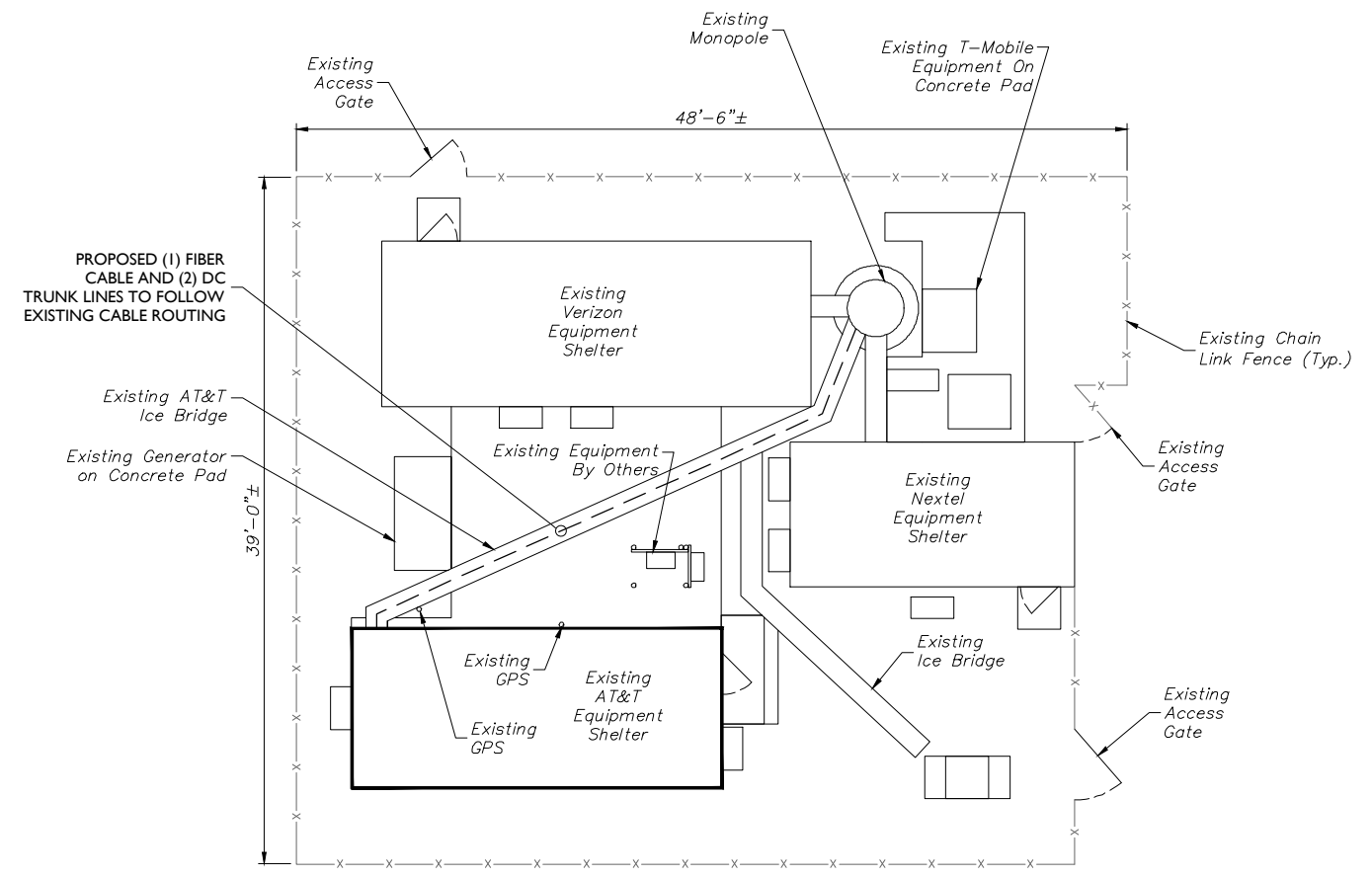
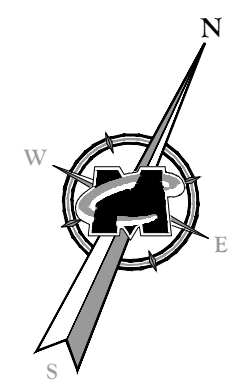
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 Mount Arlington, NJ 07856  
 Phone: 973.398.3110  
 Fax: 973.398.3199  
 email: solutions@maserconsulting.com

SHEET TITLE:  
**COMPOUND PLAN AND EQUIPMENT PLAN**

SHEET NUMBER:  
**A-1**



**EQUIPMENT PLAN**  
 GRAPHIC SCALE  
 (IN FEET)  
 SCALE: 1" = 2' FOR 24"X36" DRAWINGS  
 (DO NOT SCALE 11"X17" DRAWINGS)



**COMPOUND PLAN**  
 GRAPHIC SCALE  
 (IN FEET)  
 SCALE: 1" = 5' FOR 24"X36" DRAWINGS  
 (DO NOT SCALE 11"X17" DRAWINGS)

- NOTES:**
1. THE CONDUIT ROUTING IS DIAGRAMMATICALLY SHOWN ON THE PLANS AND ARE ONLY APPROXIMATIONS. THE EXACT LOCATION AND ROUTING SHALL BE FIELD VERIFIED.
  2. ALL DISCONNECTS AND CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED LAMICOID NAMEPLATES, INDICATING THE CIRCUITS ORIGIN AND ALL EQUIPMENT TERMINATIONS.
  3. SUBCONTRACTOR SHALL PROVIDE ALL CONDUITS AND CIRCUITS AS REQUIRED FOR A COMPLETED SYSTEM AND SHALL BE IN COMPLIANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
  4. ALL NEW CABLING TO BE ROUTED ON EXISTING CABLE RACKS.
  5. ALL INSTALLED GROUND LUGS MUST BE INSPECTION HOLE LUGS.
  6. INSTALLED GROUND LEADS MUST TERMINATE AT MGB, NOT HALO.
  7. NO OVERLAPPING GROUND HARDWARE.

10/13/2015 10:00AM C:\Users\jared\Documents\11000009\_AED1\_02115\_CTL02169\New CD.dwg A-1 By: TTYOUAK



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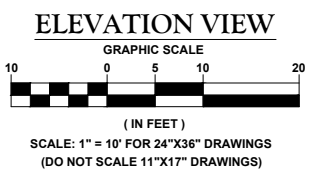
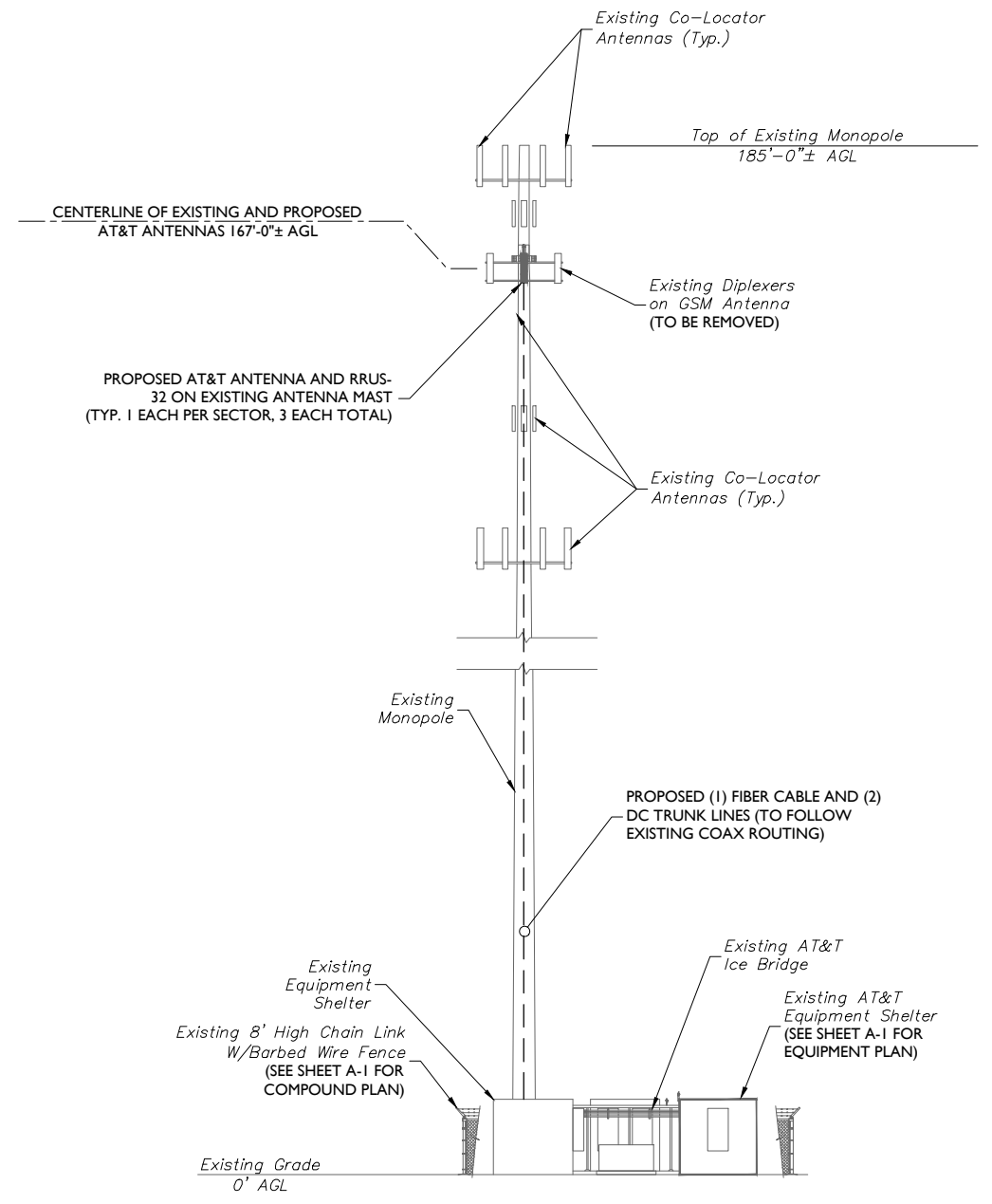
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 Fax: 973.398.3199  
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SHEET TITLE:  
**ELEVATION VIEW AND ANTENNA SCHEDULE**

SHEET NUMBER:  
**A-2**

PROPOSED ANTENNA AND RRUS CONFIGURATION														
SECTOR	EXISTING ANTENNA CONFIGURATION	PROPOSED ANTENNA CONFIGURATION	TECHNOLOGY	ANTENNA STATUS	HEIGHT (in)	WIDTH (in)	DEPTH (in)	WEIGHT (lbs)	ANTENNA AZMUTH	ANT. CL. ELEV. (ft)	RRUS CONFIGURATION	STATUS		
ALPHA	C1	Poverave 7770	C1	Poverave 7770	UMTS	REMAIN	55.00	11.00	5.00	35.00	21°	167°	-	
	C3	Poverave 7770	A2	CCI OPA-65R-LCUU-H4K	WCS LTE/GSM	REPLACE	48.00	14.40	7.30	57.00	180°	167°	RRUS-32	NEW
	A4	KMW AM-X-CD-14-65-OOT-RET	A4	KMW AM-X-CD-14-65-OOT-RET	WCS LTE/GSM	REMAIN	48.00	11.80	5.90	36.40	60°	167°	(2) RRUS-11	REMAIN
BETA	A1	Poverave 7770	A1	Poverave 7770	UMTS	REMAIN	55.00	11.00	5.00	35.00	138°	167°	-	
	A3	Poverave 7770	B2	CCI OPA-65R-LCUU-H4K	WCS LTE/GSM	REPLACE	48.00	14.40	7.30	57.00	180°	167°	RRUS-32	NEW
	B4	KMW AM-X-CD-14-65-OOT-RET	B4	KMW AM-X-CD-14-65-OOT-RET	LTE	REMAIN	48.00	11.80	5.90	36.40	180°	167°	(2) RRUS-11	REMAIN
GAMMA	B1	Poverave 7770	B1	Poverave 7770	UMTS	REMAIN	55.00	11.00	5.00	35.00	259°	167°	-	
	B3	Poverave 7770	C2	CCI OPA-65R-LCUU-H4K	WCS LTE/GSM	REPLACE	48.00	14.40	7.30	57.00	180°	167°	RRUS-32	NEW
	C4	KMW AM-X-CD-14-65-OOT-RET	C4	KMW AM-X-CD-14-65-OOT-RET	LTE	REMAIN	48.00	11.80	5.90	36.40	300°	167°	(2) RRUS-11	REMAIN

**ANTENNA SCHEDULE**



**STRUCTURAL NOTES:**

- A STRUCTURAL ANALYSIS TO DETERMINE IF THE EXISTING STRUCTURE AND FOUNDATION CAN ADEQUATELY SUPPORT THE PROPOSED LOADING HAS NOT BEEN PREPARED/ANALYZED BY MASER AND IS TO BE PERFORMED BY OTHERS.
- NO CONSTRUCTION OF THE PROPOSED LOADING SHOWN SHALL PROCEED UNTIL ADEQUACY OF EXISTING STRUCTURE AND FOUNDATION, INCLUDING THE PROPOSED AT&T ANTENNA MOUNTING CONFIGURATION SHOWN HEREIN, HAS BEEN CONFIRMED BY SMARTLINK.
- THE STRUCTURE ELEVATION IS SHOWN FOR INFORMATIONAL PURPOSES ONLY AND MAY NOT REFLECT AS-BUILT FIELD CONDITIONS FOR ALL EXISTING INVENTORY LOADING/ANTENNAS/APPURTANANCES ON STRUCTURE. REFER TO THE LATEST STRUCTURAL ANALYSIS FOR EXISTING STRUCTURE LOADING AND THE PROPOSED METHOD OF ATTACHMENT OF THE PROPOSED ANTENNAS/CABLES.
- THE CONTRACTOR IS RESPONSIBLE TO CONFIRM THAT ANY IMPROVEMENTS AND REINFORCEMENTS REQUIRED BY THE STRUCTURAL ANALYSIS CERTIFICATION ARE PROPERLY INSTALLED PRIOR TO THE ADDITION OF ANTENNAS, CABLES, SUPPORTS AND APPURTANANCES PROPOSED ON THESE DRAWINGS OR OTHERWISE NOTED IN THE STRUCTURAL ANALYSIS.

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CONNECTICUT PROFESSIONAL ENGINEER - LICENSE NUMBER: PEN 28188

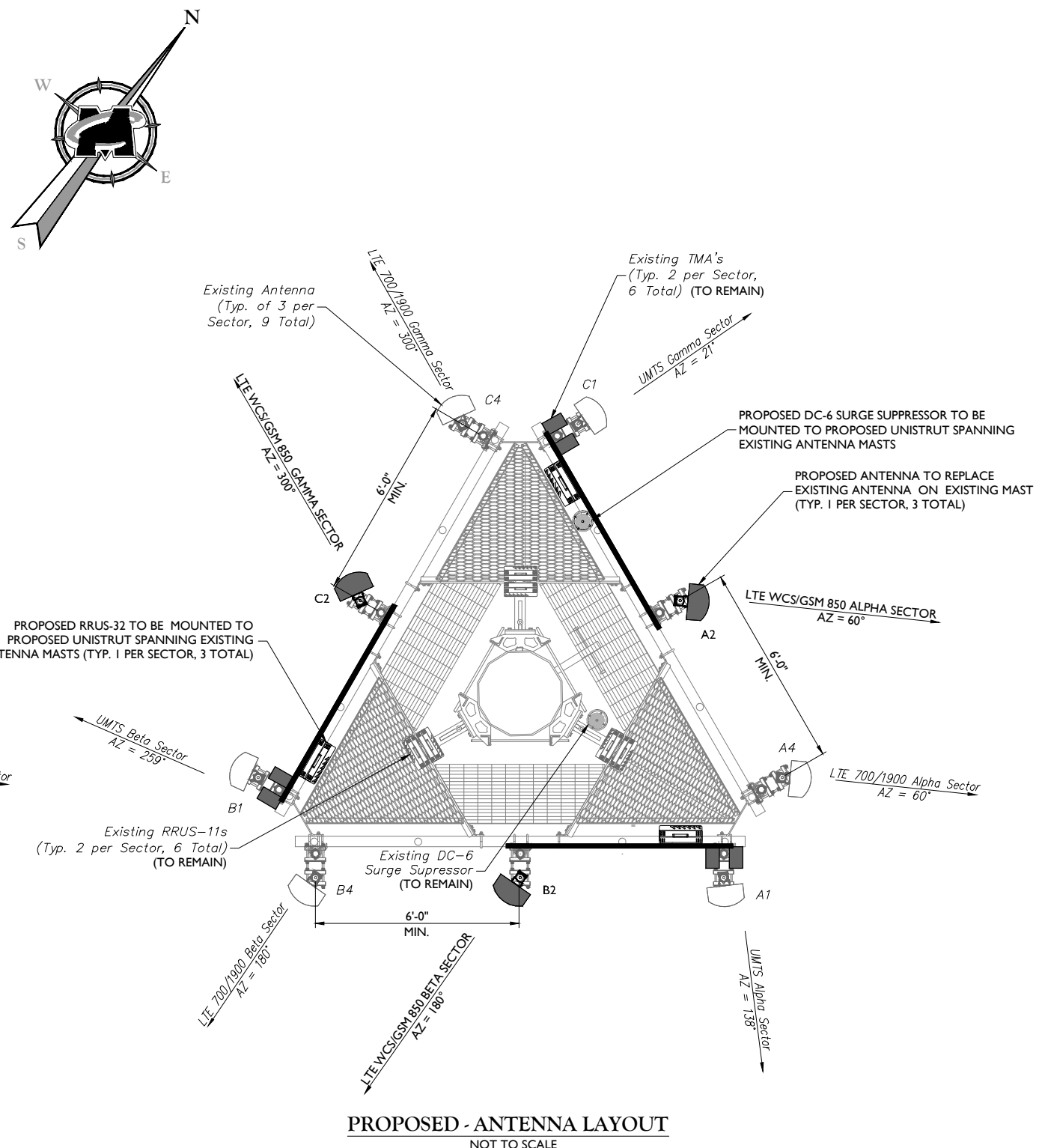
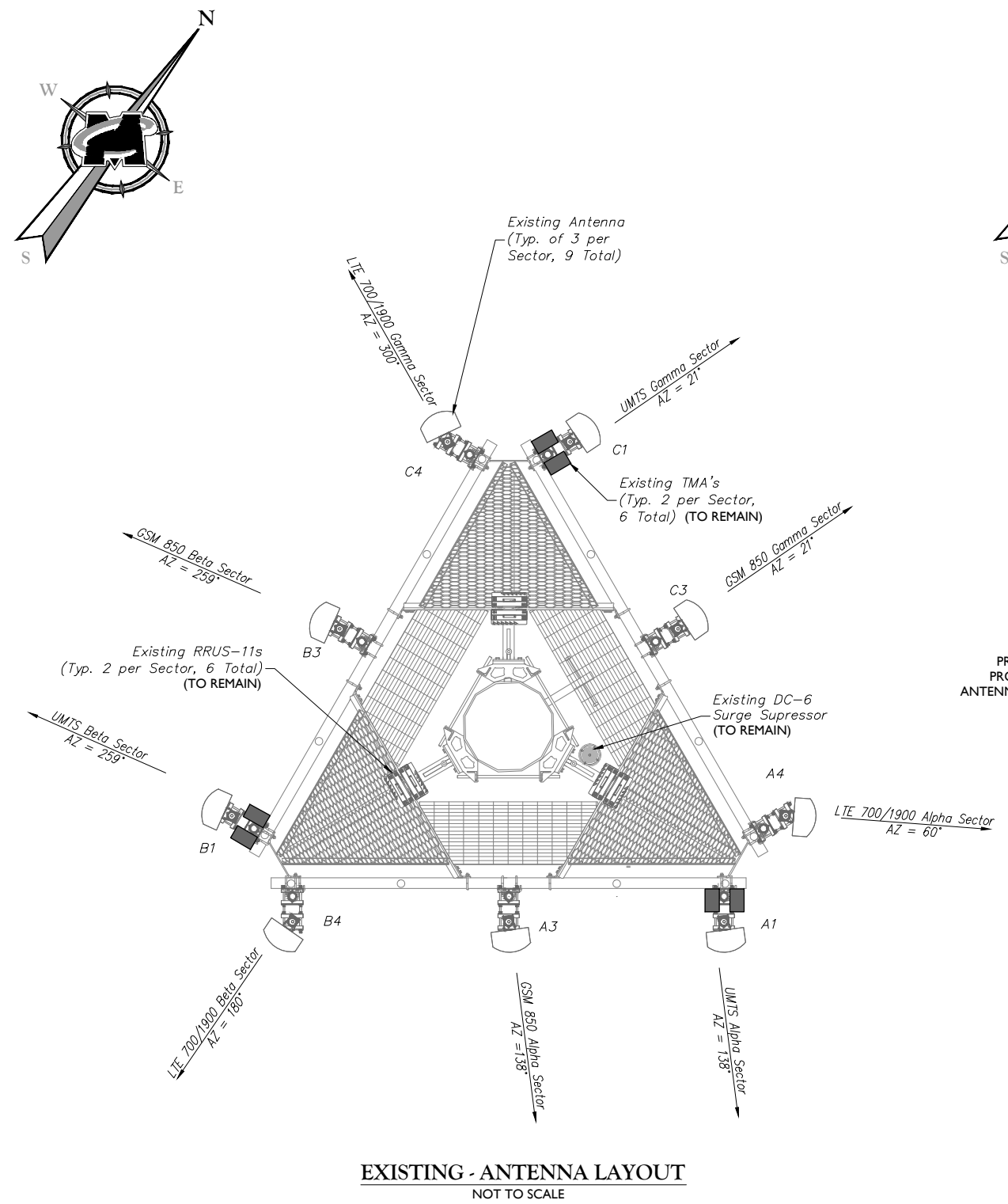
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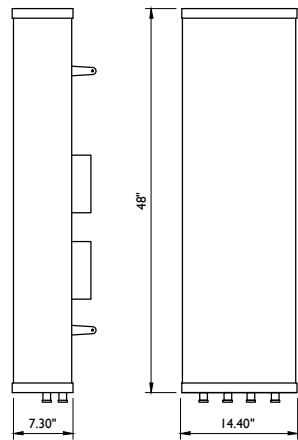
SHEET TITLE:  
**ANTENNA LAYOUTS**

SHEET NUMBER:  
**A-3**



**NOTE:**  
REMOVE CROSS SECTION REDUNDANCY IF PRESENT

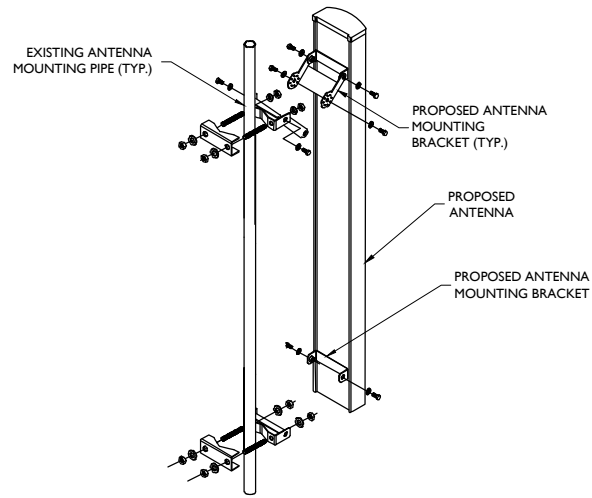
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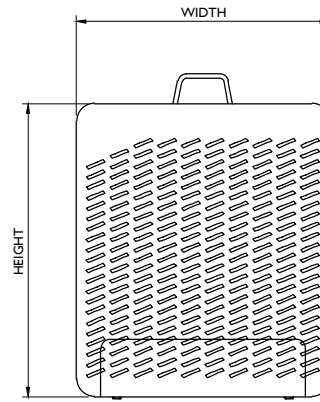
WEIGHT = 57 LBS

CCI OPA-65R-LCUU-H4

**ANTENNA DETAIL**  
NOT TO SCALE



**ANTENNA MOUNTING DETAIL**  
NOT TO SCALE



**RRUS FRONT VIEW**

**RRUS DETAIL**  
NOT TO SCALE

SIZE AND WEIGHT TABLE

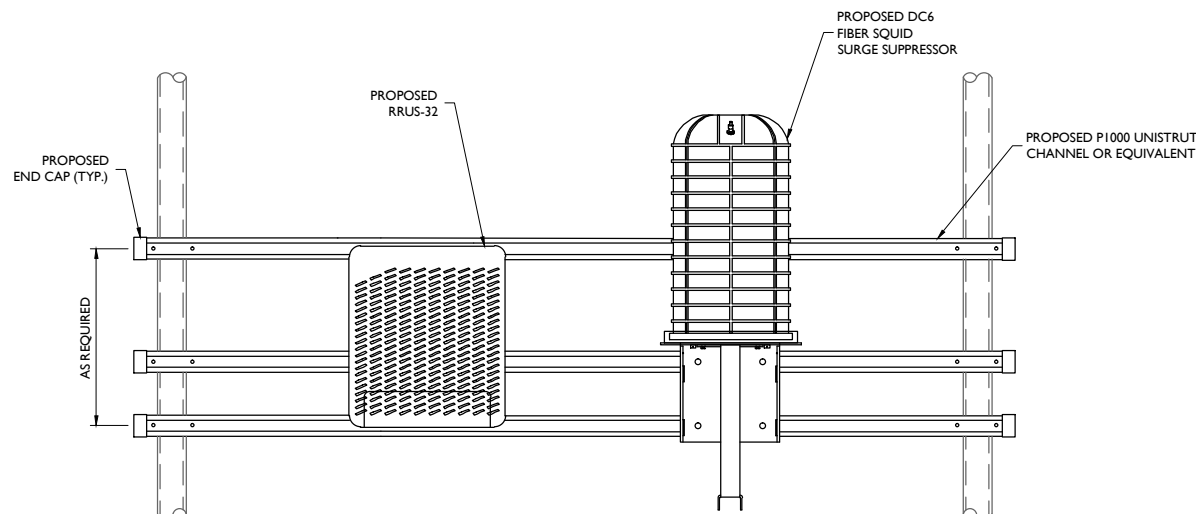
RRUS	WIDTH	DEPTH	HEIGHT	WEIGHT W/O BRACKET
RRUS-32 4X25-WCS (WITH SOLAR SHIELD)	12.1"	6.7"	26.7"	60
RRUS-32 4X25-WCS (WITHOUT SOLAR SHIELD)	-	-	-	-

MINIMUM CLEARANCE TABLE

RRUS CABINET	CLEARANCES (INCHES)	COMMENTS
FRONT	-	INSTALLATION ACCESS
REAR	-	ZERO REAR CLEARANCE IS ALLOWED USING SUPPLIED MOUNTING BRACKETS
RIGHT	-	AIR FLOW
LEFT	-	AIR FLOW
TOP	-	AIR FLOW
BOTTOM	-	CONDUIT ROUTING

NOTE:

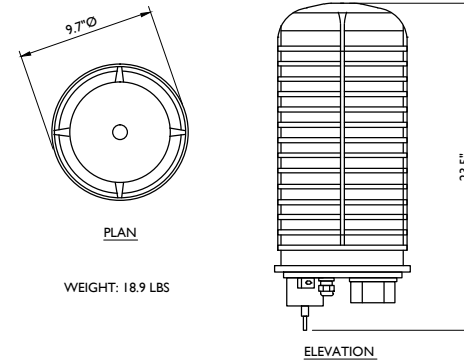
USE 1/2" COAXIAL CABLE W/7/16 DIN MALE CONNECTORS ON BOTH ENDS.



NOTES:

- INSTALL HORIZONTAL/VERTICAL UNISTRUT CHANNELS AS REQUIRED TO ALIGN FRAME WITH EQUIPMENT MOUNTING HOLES. FASTEN UNISTRUT CHANNELS TOGETHER WITH 3/8" UNISTRUT BOLTING HARDWARE AND SPRING NUTS.
- EACH UNISTRUT TO BE MOUNTED ON EXISTING VERTICAL PIPE MASTS USING 3/8" Ø U-BOLTS, MINIMUM ONE AT EACH END OF UNISTRUT.
- MOUNT RRUS AND DC FIBER SQUID TO UNISTRUT WITH 3/8" Ø UNISTRUT BOLTING HARDWARE AND SPRING NUTS THROUGH EQUIPMENT MOUNTING HOLES. SUBCONTRACTOR SHALL SUPPLY.
- PAINTING OF THE RRUS SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURER'S WRITTEN SPECIFICATIONS.

**DC FIBER SQUID AND RRUS MOUNT**  
NOT TO SCALE



**RAYCAP DC6-48-60-18-8F SURGE SUPPRESSOR**  
NOT TO SCALE



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CONNECTICUT PROFESSIONAL ENGINEER - LICENSE NUMBER: PEN 28188

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SHEET TITLE:  
**DETAILS**  
SHEET NUMBER:  
**A-4**

10/13/2015 10:40:00 AM C:\Users\jacob\OneDrive\Documents\11080209\_AED1\_02115\_C11021018\RRUS-32.dwg A-4 By: TTYOUVAR



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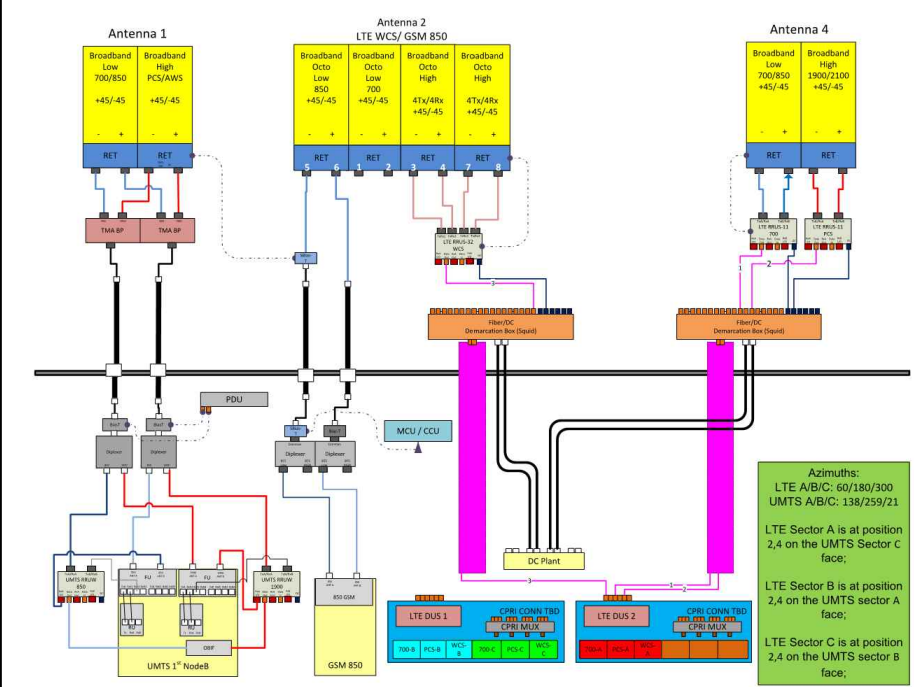
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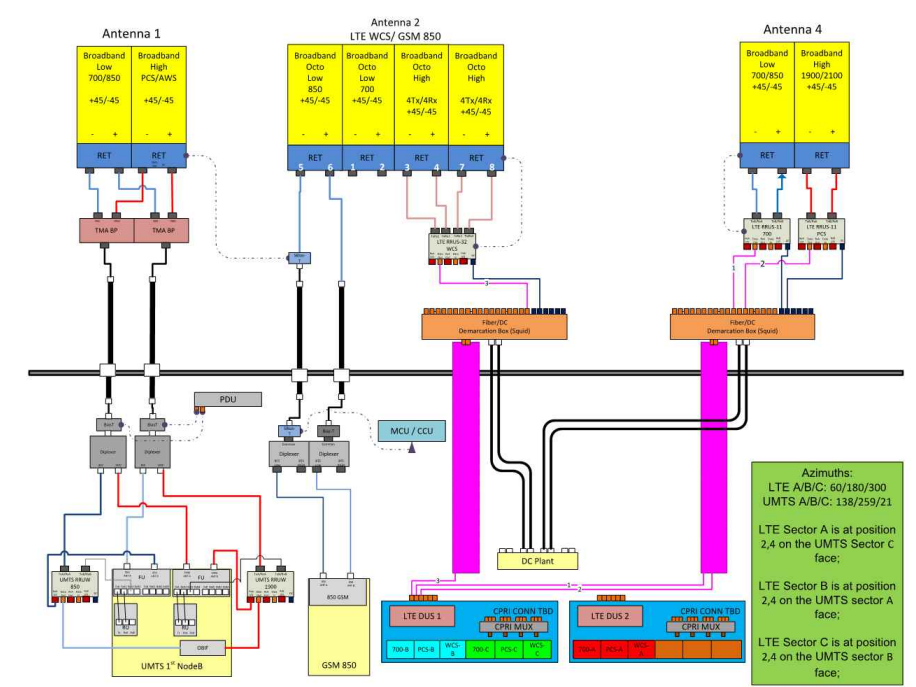
SHEET TITLE:  
**RF PLUMBING DIAGRAMS**  
 SHEET NUMBER:  
**A-5**

Diagram - Sector A Diagram File Name - CT2169\_A.LTEWCS3C\_BrStd\_Rev1.vsd  
 Aerial Site Name - CTU2169 Location Name - NEW HAVEN - WOODMONT Market - CONNECTICUT Market Cluster - NEW ENGLAND



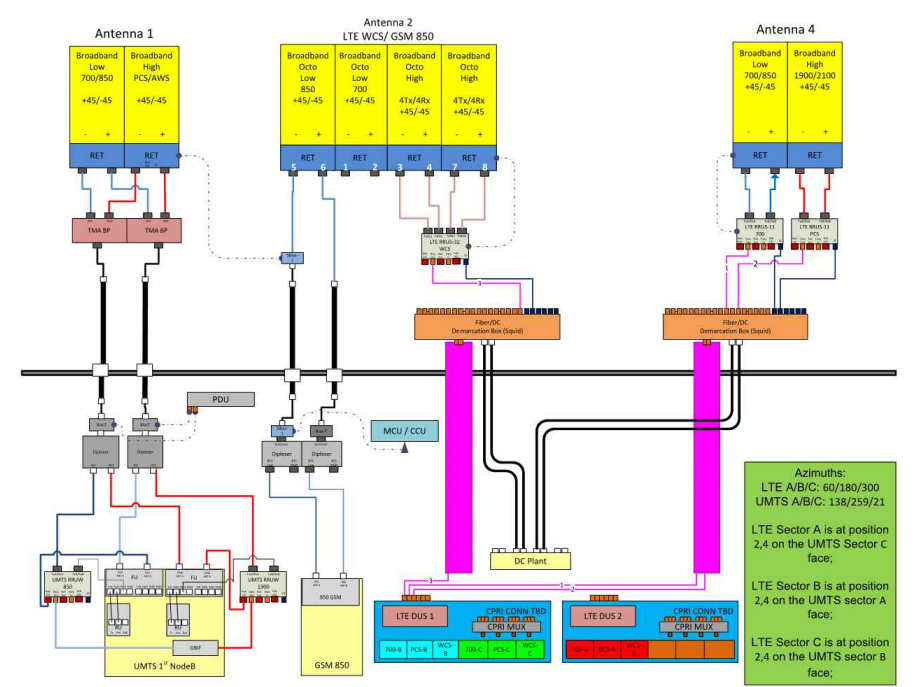
**ALPHA SECTOR**

Diagram - Sector B Diagram File Name - CT2169\_B.C.LTEWCS3C\_BrStd\_Rev1.vsd  
 Aerial Site Name - CTU2169 Location Name - NEW HAVEN - WOODMONT Market - CONNECTICUT Market Cluster - NEW ENGLAND



**BETA SECTOR**

Diagram - Sector C Diagram File Name - CT2169\_C.LTEWCS3C\_BrStd\_Rev1.vsd  
 Aerial Site Name - CTU2169 Location Name - NEW HAVEN - WOODMONT Market - CONNECTICUT Market Cluster - NEW ENGLAND



**GAMMA SECTOR**

BASED ON RF ENGINEERING DESIGN ENTITLED "NEW-ENGLAND\_CONNECTICUT\_CTU2169\_2016-LTE-Next-Carrier\_LTE-3C\_om636a\_2051A02IT7\_10035075\_61189\_05-30-2015\_Preliminary-Approved\_v1.00"

**RF PLUMBING DIAGRAMS**

B:\134000\01\_194020\02\_Consulting\11000001\_AED1\_020115\_CTL02169\RF\_Plumbing\A-5 By: TYNDAK





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**SmartLink, LLC on behalf of  
AT&T Mobility, LLC  
Site FA – 10035075  
Site ID – CTU2169 (3C)  
USID – 61189  
Site Name – New Haven-  
Woodmont  
Site Compliance Report**

**203 Research Drive  
Milford, CT 06460**

Latitude: N41-14-25.47  
Longitude: W73-0-42.99  
Structure Type: Monopole

Report generated date: February 2, 2016  
Report by: Michelle Stone  
Customer Contact: Kristen Smith

---

**AT&T Mobility, LLC will be compliant when the  
remediation recommended in section 5.2 or  
other appropriate remediation is implemented.**

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# 1 General Site Summary

## 1.1 Report Summary

<b>AT&amp;T Mobility, LLC</b>	<b>Summary</b>
<b>Access to Antennas Locked?</b>	Unknown
<b>RF Sign(s) @ access point(s)</b>	None
<b>RF Sign(s) @ antennas</b>	None
<b>Barrier(s) @ sectors</b>	N/A
<b>Max cumulative simulated Radio Frequency Exposure (RFE) level on the ground</b>	<5% of General Public limit
<b>FCC &amp; AT&amp;T Compliant?</b>	Will Be Compliant

The following documents were provided by the client and were utilized to create this report:

**RFDS: NEW-ENGLAND\_CONNECTICUT\_CTU2169\_2016-LTE-Next-Carrier\_LTE-3C\_om636a\_2051A02IT7\_10035075\_61189\_05-30-2015\_Preliminary-Approved\_v1.00**

**CD's: 10035075\_AE201\_102715\_CTL02169.Rev0.CD**

**RF Configuration Datasheet: CT\_33 sites with power density form**

## 2 Map of Site

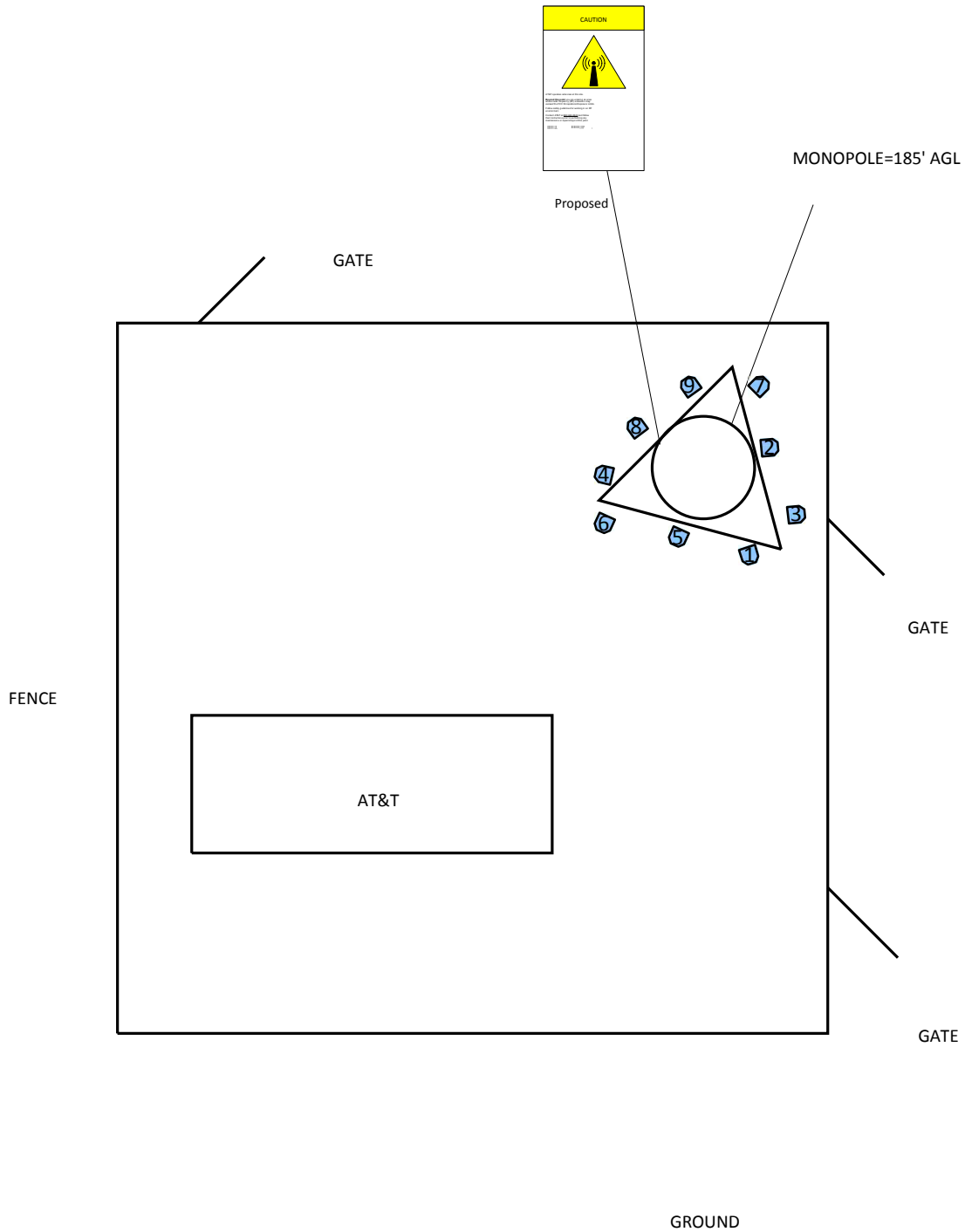
In the RF Emissions Simulations below all heights are reflected with respect to main site level. In most Monopole cases this is the height of the main Monopole and in other cases this can be ground level. Each different height area, Monopole, or platform level is labeled with its height relative to the main site level. Emissions are calculated appropriately based on the relative height and location of that area to all antennas.

The Antenna Inventory heights are referenced to the same level.

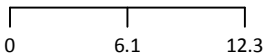
The following diagrams are included:

- Site Map
- RF Emissions Diagram
- Elevation View

# Site Map For: New Haven-Woodmont



(Feet)



www.sitesafe.com  
Site Name: New Haven-Woodmont

AT&T MOBILITY LLC	VERIZON WIRELESS	T-MOBILE	METROPICS	CRICKET COMMUNICATIONS	CLEARWIRE	SPRINT

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2/4/2016 9:24:01 AM

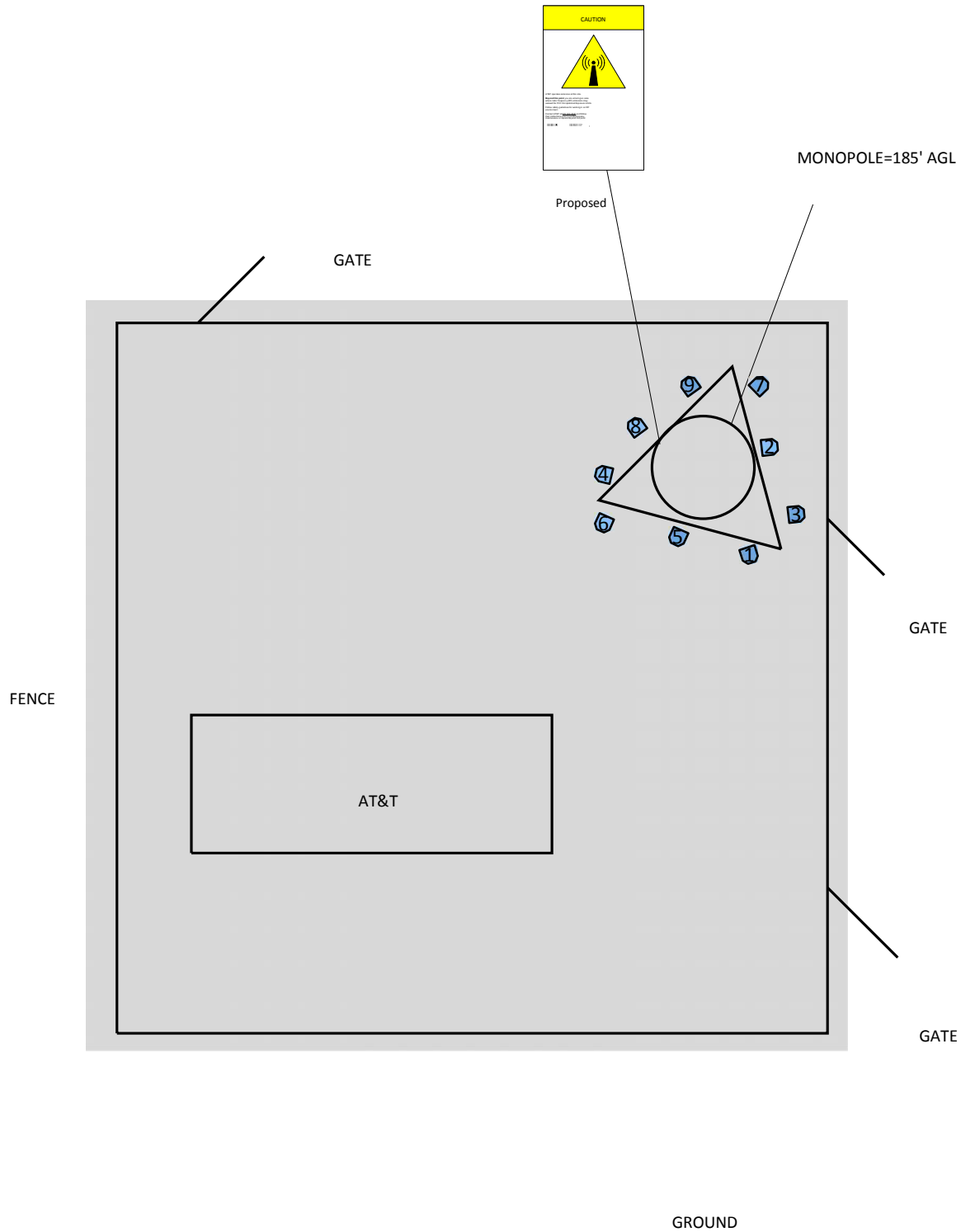
### 3 Antenna Inventory

The following antenna inventory on this and the following page, were obtained by the customer and were utilized to create the site model diagrams:

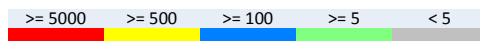
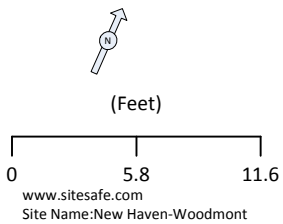
Ant ID	Operator	Antenna Make & Model	Type	TX Freq (MHz)	Az (Deg)	Hor BW (Deg)	Ant Len (ft)	Ant Gain (dBd)	2G GSM Radio(s)	3G UMTS Radio(s)	4G Radio(s)	Total ERP (Watts)	X	Y	Z AGL
1	AT&T MOBILITY LLC	Powerwave 7770	Panel	850	138	82	4.6	11.51	0	2	0	203.7	115.3'	134.3'	164.7'
1	AT&T MOBILITY LLC	Powerwave 7770	Panel	1900	138	86	4.6	13.41	0	3	0	872.6	115.3'	134.3'	164.7'
2	AT&T MOBILITY LLC (Proposed)	CCI Antennas OPA-65R-LCUU-H4	Panel	850	60	59.1	4	12.27	1	0	0	101.8	116.8'	142.2'	165'
2	AT&T MOBILITY LLC (Proposed)	CCI Antennas OPA-65R-LCUU-H4	Panel	2300	60	60	4	14.03	0	0	1	636.6	116.8'	142.2'	165'
3	AT&T MOBILITY LLC	KMW AM-X-CD-14-65-00T	Panel	737	60	67	4	11.66	0	0	1	350	118.8'	137.3'	165'
3	AT&T MOBILITY LLC	KMW AM-X-CD-14-65-00T	Panel	1900	60	65	4	13.86	0	0	1	1009.1	118.8'	137.3'	165'
4	AT&T MOBILITY LLC	Powerwave 7770	Panel	850	259	82	4.6	11.51	0	2	0	203.7	104.7'	140.2'	164.7'
4	AT&T MOBILITY LLC	Powerwave 7770	Panel	1900	259	86	4.6	13.41	0	3	0	872.6	104.7'	140.2'	164.7'
5	AT&T MOBILITY LLC (Proposed)	CCI Antennas OPA-65R-LCUU-H4	Panel	850	180	59.1	4	12.27	1	0	0	101.8	110.1'	135.6'	165'
5	AT&T MOBILITY LLC (Proposed)	CCI Antennas OPA-65R-LCUU-H4	Panel	2300	180	60	4	14.03	0	0	1	636.6	110.1'	135.6'	165'
6	AT&T MOBILITY LLC	KMW AM-X-CD-14-65-00T	Panel	737	180	67	4	11.66	0	0	1	350	104.7'	136.6'	165'
6	AT&T MOBILITY LLC	KMW AM-X-CD-14-65-00T	Panel	1900	180	65	4	13.86	0	0	1	1009.1	104.7'	136.6'	165'
7	AT&T MOBILITY LLC	Powerwave 7770	Panel	850	21	82	4.6	11.51	0	2	0	203.7	116.1'	146.8'	164.7'
7	AT&T MOBILITY LLC	Powerwave 7770	Panel	1900	21	86	4.6	13.41	0	3	0	872.6	116.1'	146.8'	164.7'
8	AT&T MOBILITY LLC (Proposed)	CCI Antennas OPA-65R-LCUU-H4	Panel	850	300	59.1	4	12.27	1	0	0	101.8	107.1'	143.7'	165'
8	AT&T MOBILITY LLC (Proposed)	CCI Antennas OPA-65R-LCUU-H4	Panel	2300	300	60	4	14.03	0	0	1	636.6	107.1'	143.7'	165'
9	AT&T MOBILITY LLC	KMW AM-X-CD-14-65-00T	Panel	737	300	67	4	11.66	0	0	1	350	111'	146.7'	165'
9	AT&T MOBILITY LLC	KMW AM-X-CD-14-65-00T	Panel	1900	300	65	4	13.86	0	0	1	1009.1	111'	146.7'	165'

NOTE: X, Y and Z indicate relative position of the bottom of the antenna to the origin location on the site, displayed in the model results diagram. Specifically, the Z reference indicates the bottom of the antenna height above the main site level unless otherwise indicated. The distance to the bottom of the antenna is calculated by subtracting half of the length of the antenna from the antenna centerline. Effective Radiated Power (ERP) is provided by the operator or based on Sitesafe experience. The values used in the modeling may be greater than are currently deployed. For other operators at this site the use of "Generic" as an antenna model or "Unknown" for a wireless operator means the information with regard to operator, their FCC license and/or antenna information was not available nor could it be secured while on site. Other operator's equipment, antenna models and powers used for modeling are based on obtained information or Sitesafe experience.

# RF Emissions Simulation For: New Haven-Woodmont



% of FCC Public Exposure Limit  
Spatial average 0' - 6'

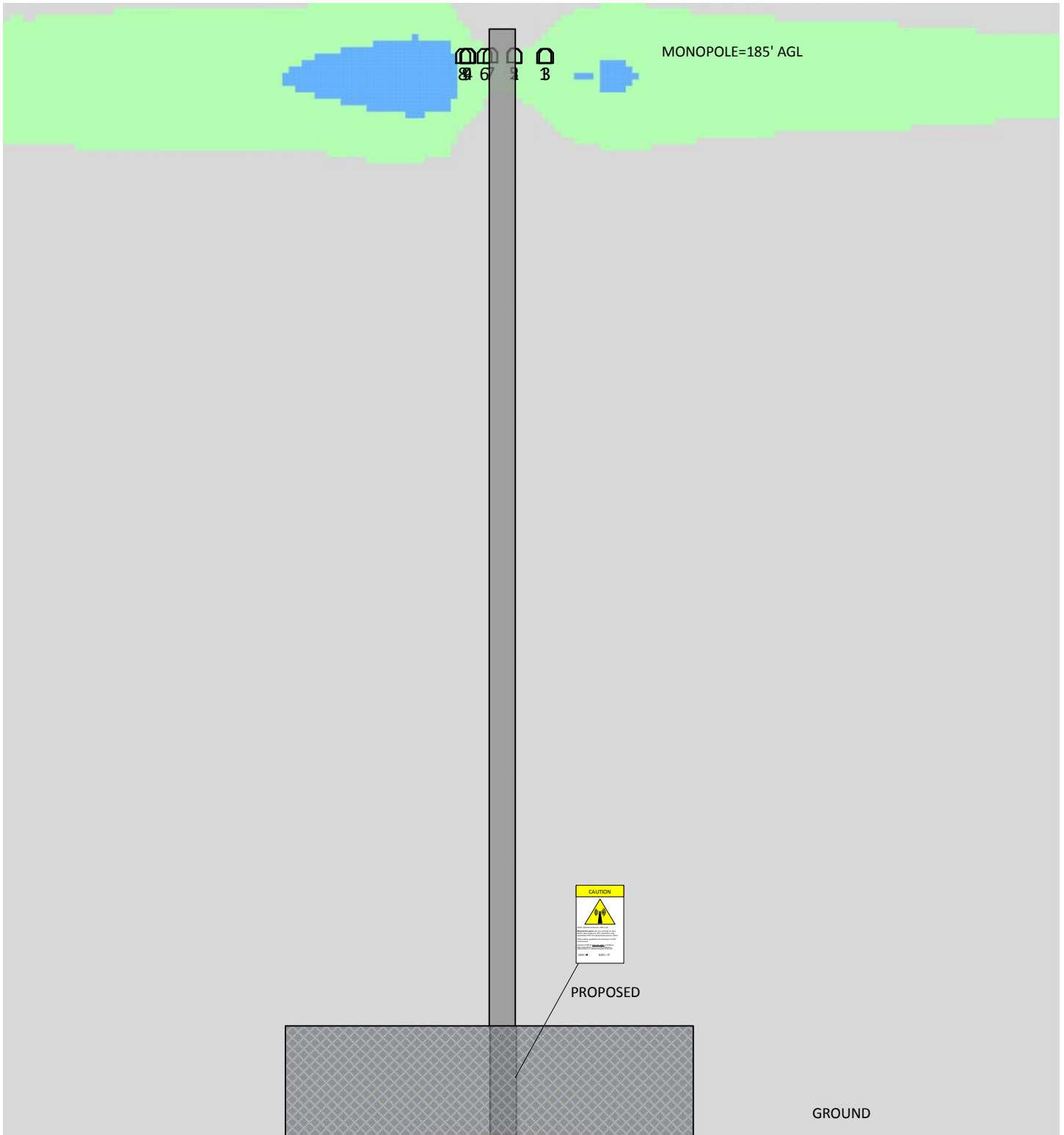


AT&T MOBILITY LLC	VERIZON WIRELESS	T-MOBILE	METROPCS	CRICKET COMMUNICATIONS	CLEARWIRE	SPRINT

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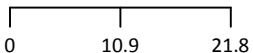
# RF Emissions Simulation For: New Haven-Woodmont Elevation View



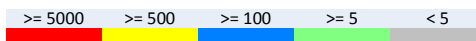
% of FCC Public Exposure Limit  
Spatial average 0' - 6'



(Feet)



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Site Name: New Haven-Woodmont



AT&T MOBILITY LLC	VERIZON WIRELESS	T-MOBILE	METROPCS	CRICKET COMMUNICATIONS	CLEARWIRE	SPRINT

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2/2/2016 6:54:58 PM

## 5 Site Compliance

### 5.1 Site Compliance Statement

Upon evaluation of the cumulative RF emission levels from all operators at this site, RF hazard signage and antenna locations, Sitesafe has determined that:

AT&T Mobility, LLC will be compliant when the remediation recommended in section 5.2 or other appropriate remediation is implemented.

The compliance determination is based on Occupational RFE levels derived from theoretical modeling, RF signage placement, proposed antenna inventory and the level of restricted access to the antennas at the site. Any deviation from the AT&T Mobility, LLC's proposed deployment plan could result in the site being rendered non-compliant.

Modeling is used for determining compliance and the percentage of MPE contribution.

### 5.2 Actions for Site Compliance

Based on FCC regulations, common industry practice, and our understanding of AT&T Mobility, LLC RF Safety Policy requirements, this section provides a statement of recommendations for site compliance. Recommendations have been proposed based on our understanding of existing access restrictions, signage, and an analysis of predicted RFE levels.

The site will be made compliant if the following changes are implemented:

#### Site Access Location

Yellow caution 2 sign required.

## 6 Engineer Certification

The professional engineer whose seal appears on the cover of this document hereby certifies and affirms that:

I am registered as a Professional Engineer in the jurisdiction indicated in the professional engineering stamp on the cover of this document; and

That I am an employee of Sitesafe, Inc., in Arlington, Virginia, at which place the staff and I provide RF compliance services to clients in the wireless communications industry; and

That I am thoroughly familiar with the Rules and Regulations of the Federal Communications Commission (FCC) as well as the regulations of the Occupational Safety and Health Administration (OSHA), both in general and specifically as they apply to the FCC Guidelines for Human Exposure to Radio-frequency Radiation; and

That I have thoroughly reviewed this Site Compliance Report and believe it to be true and accurate to the best of my knowledge as assembled by and attested to by Michelle Stone.

February 2, 2016

## **Appendix A – Statement of Limiting Conditions**

Sitesafe has provided computer generated model(s) in this Site Compliance Report to show approximate dimensions of the site, and the model is included to assist the reader of the compliance report to visualize the site area, and to provide supporting documentation for Sitesafe's recommendations.

Sitesafe may note in the Site Compliance Report any adverse physical conditions, such as needed repairs, that Sitesafe became aware of during the normal research involved in creating this report. Sitesafe will not be responsible for any such conditions that do exist or for any engineering or testing that might be required to discover whether such conditions exist. Because Sitesafe is not an expert in the field of mechanical engineering or building maintenance, the Site Compliance Report must not be considered a structural or physical engineering report.

Sitesafe obtained information used in this Site Compliance Report from sources that Sitesafe considers reliable and believes them to be true and correct. Sitesafe does not assume any responsibility for the accuracy of such items that were furnished by other parties. When conflicts in information occur between data collected by Sitesafe provided by a second party and data collected by Sitesafe, the data will be used.

## Appendix B – Regulatory Background Information

### FCC Rules and Regulations

In 1996, the Federal Communication Commission (FCC) adopted regulations for the evaluating of the effects of RF emissions in 47 CFR § 1.1307 and 1.1310. The guideline from the FCC Office of Engineering and Technology is Bulletin 65 (“OET Bulletin 65”), *Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields*, Edition 97-01, published August 1997. Since 1996 the FCC periodically reviews these rules and regulations as per their congressional mandate.

FCC regulations define two separate tiers of exposure limits: Occupational or “Controlled environment” and General Public or “Uncontrolled environment”. The General Public limits are generally five times more conservative or restrictive than the Occupational limit. These limits apply to *accessible* areas where workers or the general public may be exposed to Radio Frequency (RF) electromagnetic fields.

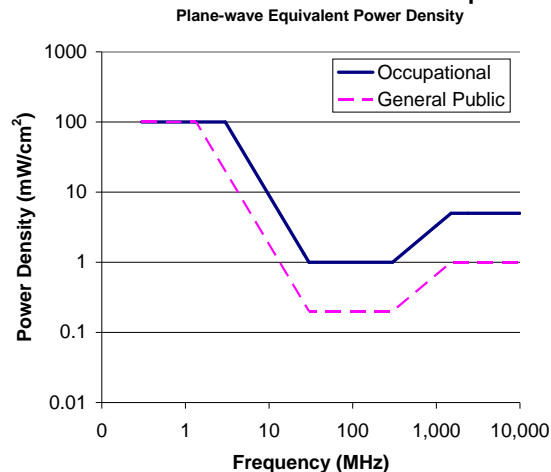
Occupational or Controlled limits apply in situations in which persons are exposed as a consequence of their employment and where those persons exposed have been made fully aware of the potential for exposure and can exercise control over their exposure.

An area is considered a Controlled environment when access is limited to these aware personnel. Typical criteria are restricted access (i.e. locked or alarmed doors, barriers, etc.) to the areas where antennas are located coupled with proper RF warning signage. A site with Controlled environments is evaluated with Occupational limits.

All other areas are considered Uncontrolled environments. If a site has no access controls or no RF warning signage it is evaluated with General Public limits.

The theoretical modeling of the RF electromagnetic fields has been performed in accordance with OET Bulletin 65. The Maximum Permissible Exposure (MPE) limits utilized in this analysis are outlined in the following diagram:

**FCC Limits for Maximum Permissible Exposure (MPE)**



### Limits for Occupational/Controlled Exposure (MPE)

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

### Limits for General Population/Uncontrolled Exposure (MPE)

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

f = frequency in MHz

\*Plane-wave equivalent power density

## OSHA Statement

The General Duty clause of the OSHA Act (Section 5) outlines the occupational safety and health responsibilities of the employer and employee. The General Duty clause in Section 5 states:

(a) Each employer –

- (1) shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;
- (2) shall comply with occupational safety and health standards promulgated under this Act.

(b) Each employee shall comply with occupational safety and health standards and all rules, regulations, and orders issued pursuant to this Act which are applicable to his own actions and conduct.

OSHA has defined Radiofrequency and Microwave Radiation safety standards for workers who may enter hazardous RF areas. Regulation Standards 29 CFR § 1910.147 identify a generic Lock Out Tag Out procedure aimed to control the unexpected energization or start up of machines when maintenance or service is being performed.



## Appendix C – Safety Plan and Procedures

The following items are general safety recommendations that should be administered on a site by site basis as needed by the carrier.

**General Maintenance Work:** Any maintenance personnel required to work immediately in front of antennas and / or in areas indicated as above 100% of the Occupational MPE limits should coordinate with the wireless operators to disable transmitters during their work activities.

**Training and Qualification Verification:** All personnel accessing areas indicated as exceeding the General Population MPE limits should have a basic understanding of EME awareness and RF Safety procedures when working around transmitting antennas. Awareness training increases a workers understanding to potential RF exposure scenarios. Awareness can be achieved in a number of ways (e.g. videos, formal classroom lecture or internet based courses).

**Physical Access Control:** Access restrictions to transmitting antennas locations is the primary element in a site safety plan. Examples of access restrictions are as follows:

- Locked door or gate
- Alarmed door
- Locked ladder access
- Restrictive Barrier at antenna (e.g. Chain link with posted RF Sign)

**RF Signage:** Everyone should obey all posted signs at all times. RF signs play an important role in properly warning a worker prior to entering into a potential RF Exposure area.

**Assume all antennas are active:** Due to the nature of telecommunications transmissions, an antenna transmits intermittently. Always assume an antenna is transmitting. Never stop in front of an antenna. If you have to pass by an antenna, move through as quickly and safely as possible thereby reducing any exposure to a minimum.

**Maintain a 3 foot clearance from all antennas:** There is a direct correlation between the strength of an EME field and the distance from the transmitting antenna. The further away from an antenna, the lower the corresponding EME field is.

**Site RF Emissions Diagram:** Section 4 of this report contains an RF Diagram that outlines various theoretical Maximum Permissible Exposure (MPE) areas at the site. The modeling is a worst case scenario assuming a duty cycle of 100% for each transmitting antenna at full power. This analysis is based on one of two access control criteria: General Public criteria means the access to the site is uncontrolled and anyone can gain access. Occupational criteria means the access is restricted and only properly trained individuals can gain access to the antenna locations.

## Appendix D – RF Emissions

The RF Emissions Simulation(s) in this report display theoretical spatially averaged percentage of the Maximum Permissible Exposure for all systems at the site unless otherwise noted. These diagrams use modeling as prescribed in OET Bulletin 65 and assumptions detailed in Appendix E.

The key at the bottom of each RF Emissions Simulation indicates percentages displayed referenced to FCC General Public Maximum Permissible Exposure (MPE) limits. Color coding on the diagram is as follows:

- Areas indicated as Gray are predicted to be below 5% of the MPE limits. **Gray represents areas more than 20 times below the most conservative exposure limit.**
- Green represents areas are predicted to be between 5% and 100% of the MPE limits. **Green areas are accessible to anyone.**
- Blue represents areas predicted to exceed the General Public MPE limits but are less than Occupational limits. **Blue areas should be accessible only to RF trained workers.**
- Yellow represents areas predicted to exceed Occupational MPE limits. **Yellow areas should be accessible only to RF trained workers able to assess current exposure levels.**
- Red represents areas predicted to have exposure more than 10 times the Occupational MPE limits. **Red indicates that the RF levels must be reduced prior to access.** An RF Safety Plan is required which outlines how to reduce the RF energy in these areas prior to access.

## Appendix E – Assumptions and Definitions

### General Model Assumptions

In this site compliance report, it is assumed that all antennas are operating at **full power at all times**. Software modeling was performed for all transmitting antennas located on the site. Sitesafe has further assumed a 100% duty cycle and maximum radiated power.

The site has been modeled with these assumptions to show the maximum RF energy density. Sitesafe believes this to be a *worst-case* analysis, based on best available data. Areas modeled to predict emissions greater than 100% of the applicable MPE level may not actually occur, but are shown as a *worst-case* prediction that could be realized real time. Sitesafe believes these areas to be safe for entry by occupationally trained personnel utilizing appropriate personal protective equipment (in most cases, a personal monitor).

Thus, at any time, if power density measurements were made, we believe the real-time measurements would indicate levels below those depicted in the RF emission diagram(s) in this report. By modeling in this way, Sitesafe has conservatively shown exclusion areas – areas that should not be entered without the use of a personal monitor, carriers reducing power, or performing real-time measurements to indicate real-time exposure levels.

### Use of Generic Antennas

For the purposes of this report, the use of “Generic” as an antenna model, or “Unknown” for an operator means the information about a carrier, their FCC license and/or antenna information was not provided and could not be obtained while on site. In the event of unknown information, Sitesafe will use our industry specific knowledge of equipment, antenna models, and transmit power to model the site. If more specific information can be obtained for the unknown measurement criteria, Sitesafe recommends remodeling of the site utilizing the more complete and accurate data. Information about similar facilities is used when the service is identified and associated with a particular antenna. If no information is available regarding the transmitting service associated with an unidentified antenna, using the antenna manufacturer's published data regarding the antenna's physical characteristics makes more conservative assumptions.

Where the frequency is unknown, Sitesafe uses the closest frequency in the antenna's range that corresponds to the highest Maximum Permissible Exposure (MPE), resulting in a conservative analysis.

## Definitions

**5% Rule** – The rules adopted by the FCC specify that, in general, at multiple transmitter sites actions necessary to bring the area into compliance with the guidelines are the shared responsibility of all licensees whose transmitters produce field strengths or power density levels at the area in question in excess of 5% of the exposure limits. In other words, any wireless operator that contributes 5% or greater of the MPE limit in an area that is identified to be greater than 100% of the MPE limit is responsible taking corrective actions to bring the site into compliance.

**Compliance** – The determination of whether a site is safe or not with regards to Human Exposure to Radio Frequency Radiation from transmitting antennas.

**Decibel (dB)** – A unit for measuring power or strength of a signal.

**Duty Cycle** – The percent of pulse duration to the pulse period of a periodic pulse train. Also, may be a measure of the temporal transmission characteristic of an intermittently transmitting RF source such as a paging antenna by dividing average transmission duration by the average period for transmission. A duty cycle of 100% corresponds to continuous operation.

**Effective (or Equivalent) Isotropic Radiated Power (EIRP)** – The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna.

**Effective Radiated Power (ERP)** – In a given direction, the relative gain of a transmitting antenna with respect to the maximum directivity of a half wave dipole multiplied by the net power accepted by the antenna from the connecting transmitter.

**Gain (of an antenna)** – The ratio of the maximum intensity in a given direction to the maximum radiation in the same direction from an isotropic radiator. Gain is a measure of the relative efficiency of a directional antennas as compared to an omni directional antenna.

**General Population/Uncontrolled Environment** – Defined by the FCC, as an area where exposure to RF energy may occur to persons who are **unaware** of the potential for exposure and who have no control of their exposure. General Population is also referenced as General Public.

**Generic Antenna** – For the purposes of this report, the use of "Generic" as an antenna model means the antenna information was not provided and could not be obtained while on site. In the event of unknown information, Sitesafe will use our industry specific knowledge of antenna models to select a worst case scenario antenna to model the site.

**Isotropic Antenna** – An antenna that is completely non-directional. In other words, an antenna that radiates energy equally in all directions.

**Maximum Measurement** – This measurement represents the single largest measurement recorded when performing a spatial average measurement.

**Maximum Permissible Exposure (MPE)** – The maximum levels of RF exposure a person may be exposed to without harmful effect and with acceptable safety factor.

**Occupational/Controlled Environment** – Defined by the FCC, as an area where Radio Frequency Radiation (RFR) exposure may occur to persons who are **aware** of the

potential for exposure as a condition of employment or specific activity and can exercise control over their exposure.

**OET Bulletin 65** – Technical guideline developed by the FCC’s Office of Engineering and Technology to determine the impact of Radio Frequency radiation on Humans. The guideline was published in August 1997.

**OSHA (Occupational Safety and Health Administration)** – Under the Occupational Safety and Health Act of 1970, employers are responsible for providing a safe and healthy workplace for their employees. OSHA’s role is to promote the safety and health of America’s working men and women by setting and enforcing standards; providing training, outreach and education; establishing partnerships; and encouraging continual process improvement in workplace safety and health. For more information, visit [www.osha.gov](http://www.osha.gov).

**Radio Frequency (RF)** – The frequencies of electromagnetic waves which are used for radio communications. Approximately 3 kHz to 300 GHz.

**Radio Frequency Exposure (RFE)** – The amount of RF power density that a person is or might be exposed to.

**Spatial Average Measurement** – A technique used to average a minimum of ten (10) measurements taken in a ten (10) second interval from zero (0) to six (6) feet. This measurement is intended to model the average power density an average sized human will be exposed to at a location.

**Transmitter Power Output (TPO)** – The radio frequency output power of a transmitter’s final radio frequency stage as measured at the output terminal while connected to a load.

## Appendix F – References

The following references can be followed for further information about RF Health and Safety.

Sitesafe, Inc.

<http://www.sitesafe.com>

FCC Radio Frequency Safety

<http://www.fcc.gov/encyclopedia/radio-frequency-safety>

National Council on Radiation Protection and Measurements (NCRP)

<http://www.ncrponline.org>

Institute of Electrical and Electronics Engineers, Inc., (IEEE)

<http://www.ieee.org>

American National Standards Institute (ANSI)

<http://www.ansi.org>

Environmental Protection Agency (EPA)

<http://www.epa.gov/radtown/wireless-tech.html>

National Institutes of Health (NIH)

<http://www.niehs.nih.gov/health/topics/agents/emf/>

Occupational Safety and Health Agency (OSHA)

<http://www.osha.gov/SLTC/radiofrequencyradiation/>

International Commission on Non-Ionizing Radiation Protection (ICNIRP)

<http://www.icnirp.org>

World Health Organization (WHO)

<http://www.who.int/peh-emf/en/>

National Cancer Institute

<http://www.cancer.gov/cancertopics/factsheet/Risk/cellphones>

American Cancer Society (ACS)

[http://www.cancer.org/docroot/PED/content/PED\\_1\\_3X\\_Cellular\\_Phone\\_Towers.asp?sitearea=PED](http://www.cancer.org/docroot/PED/content/PED_1_3X_Cellular_Phone_Towers.asp?sitearea=PED)

European Commission Scientific Committee on Emerging and Newly Identified Health Risks

[http://ec.europa.eu/health/ph\\_risk/committees/04\\_scenihp/docs/scenihp\\_o\\_022.pdf](http://ec.europa.eu/health/ph_risk/committees/04_scenihp/docs/scenihp_o_022.pdf)

Fairfax County, Virginia Public School Survey

<http://www.fcps.edu/fts/safety-security/RFEESurvey/>

UK Health Protection Agency Advisory Group on Non-ionising Radiation

[http://www.hpa.org.uk/webw/HPAweb&HPAwebStandard/HPAweb\\_C/1317133826368](http://www.hpa.org.uk/webw/HPAweb&HPAwebStandard/HPAweb_C/1317133826368)

Norwegian Institute of Public Health

<http://www.fhi.no/dokumenter/545eea7147.pdf>

StartAntennaData

It is advisable to provide an ID (ant 1) for all antennas

ID	Name	(MHz) Freq	Trans Power	Trans Count	Coax Len	Coax Type	Other Losses	Input Power
1	AT&T MOB	850	7.227698		2	0		14.4554
1	AT&T MOB	1900	13.30454		3	0		39.91363
2	AT&T MOB	850	7.481695		1	0		7.481695
2	AT&T MOB	2300	23.93316		1	0		23.93316
3	AT&T MOB	737	23.93316		1	0		23.93316
3	AT&T MOB	1900	41.59106		1	0		41.59106
4	AT&T MOB	850	7.227698		2	0		14.4554
4	AT&T MOB	1900	13.30454		3	0		39.91363
5	AT&T MOB	850	7.481695		1	0		7.481695
5	AT&T MOB	2300	23.93316		1	0		23.93316
6	AT&T MOB	737	23.93316		1	0		23.93316
6	AT&T MOB	1900	41.59106		1	0		41.59106
7	AT&T MOB	850	7.227698		2	0		14.4554
7	AT&T MOB	1900	13.30454		3	0		39.91363
8	AT&T MOB	850	7.481695		1	0		7.481695
8	AT&T MOB	2300	23.93316		1	0		23.93316
9	AT&T MOB	737	23.93316		1	0		23.93316
9	AT&T MOB	1900	41.59106		1	0		41.59106

StartSymbolData

Calc			(ft)	(ft)	(ft)		(ft)	dBd
Power	Mfg	Model	X	Y	Z	Type	Aper	Gain
	Powerwave	7770	115.33	134.33	164.7085	Panel	4.583	11.51
	Powerwave	7770	115.33	134.33	164.7085	Panel	4.583	13.41
	CCI Antenn	OPA-65R-L	116.81	142.23	165	Panel	4	11.36
	CCI Antenn	OPA-65R-L	116.81	142.23	165	Panel	4	14.26
	KMW	AM-X-CD-1	118.76	137.32	165	Panel	4	11.66
	KMW	AM-X-CD-1	118.76	137.32	165	Panel	4	13.86
	Powerwave	7770	104.67	140.24	164.7085	Panel	4.583	11.51
	Powerwave	7770	104.67	140.24	164.7085	Panel	4.583	13.41
	CCI Antenn	OPA-65R-L	110.1	135.64	165	Panel	4	11.36
	CCI Antenn	OPA-65R-L	110.1	135.64	165	Panel	4	14.26
	KMW	AM-X-CD-1	104.67	136.64	165	Panel	4	11.66
	KMW	AM-X-CD-1	104.67	136.64	165	Panel	4	13.86
	Powerwave	7770	116.1	146.76	164.7085	Panel	4.583	11.51
	Powerwave	7770	116.1	146.76	164.7085	Panel	4.583	13.41
	CCI Antenn	OPA-65R-L	107.05	143.73	165	Panel	4	11.36
	CCI Antenn	OPA-65R-L	107.05	143.73	165	Panel	4	14.26
	KMW	AM-X-CD-1	110.97	146.73	165	Panel	4	11.66
	KMW	AM-X-CD-1	110.97	146.73	165	Panel	4	13.86



BWdth	Uptime	ON
Pt Dir	Profile	flag
82;138	100%	ON•
86;138	100%	ON•
60;60	100%	ON•
61.1;60	100%	ON•
67;60	100%	ON•
65;60	100%	ON•
82;259	100%	ON•
86;259	100%	ON•
60;180	100%	ON•
61.1;180	100%	ON•
67;180	100%	ON•
65;180	100%	ON•
82;21	100%	ON•
86;21	100%	ON•
60;300	100%	ON•
61.1;300	100%	ON•
67;300	100%	ON•
65;300	100%	ON•



**AMERICAN TOWER®**  
CORPORATION

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## Structural Analysis Report

**Structure** : 183 ft Monopole  
**ATC Site Name** : Milford CT 2, CT  
**ATC Site Number** : 302535  
**Engineering Number** : 64347721  
**Proposed Carrier** : AT&T Mobility  
**Carrier Site Name** : New Haven - Woodmont  
**Carrier Site Number** : CTL02169/FA#10035075  
**Site Location** : 185 Research Drive  
Milford, CT 06460-7733  
41.240419,-73.011900  
**County** : New Haven  
**Date** : November 11, 2015  
**Max Usage** : 99%  
**Result** : Pass

Reviewed by:  
Scott Wirgau, PE  
Structural Team Leader



Prepared By:  
Robert D. Barrett, E.I.  
Structural Engineer I

*Robert D. Barrett*

Nov 12 2015 2:36 PM

COA: PEC.0001553



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## Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 183 ft monopole to reflect the change in loading by AT&T Mobility.

## Supporting Documents

<b>Tower Drawings</b>	Summit Manufacturing Drawing #1237-D1, dated September 9, 1994
<b>Foundation Drawing</b>	Summit Manufacturing Drawing #1237-F1 dated October 10, 1994
<b>Geotechnical Report</b>	French & Parrello Project #93N035CR1, dated November 2, 1993
<b>Modifications</b>	ATC Job #42659834, dated January 16, 2009 ATC Job #43915332, dated September 2, 2009 ATC Job #56682734, dated April 16, 2014

## Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

<b>Basic Wind Speed:</b>	110 mph (3-Second Gust)
<b>Basic Wind Speed w/ Ice:</b>	50 mph (3-Second Gust) w/ 3/4" radial ice concurrent
<b>Code:</b>	ANSI/TIA-222-G / 2003 IBC w/ 2005 CT Supplement & 2009 CT Amendment
<b>Structure Class:</b>	II
<b>Exposure Category:</b>	B
<b>Topographic Category:</b>	1
<b>Crest Height:</b>	0 ft
<b>Spectral Response:</b>	$S_s = 0.19$ , $S_1 = 0.06$
<b>Site Class:</b>	D - Stiff Soil

## Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at [Engineering@americantower.com](mailto:Engineering@americantower.com). Please include the American Tower site name, site number, and engineering number in the subject line for any questions.



**Existing and Reserved Equipment**

Elevation <sup>1</sup> (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
185.0	185.0	6	Decibel DB844H90E-XY	Platform w/ Handrails	(12) 1 5/8" Coax	Sprint Nextel
		3	Andrew 844G65VTZASX			
		2	DragonWave Horizon Compact			
		3	NextNet BTS-2500			
		3	Argus LLPX310R			
	178.0	2	DragonWave A-ANT-18G-2-C		(6) 5/16" Coax (2) 2" Conduit	Clearwire
182.0	-	-	(2) 2" Conduit (3) 1/2" Coax			
175.0	175.0	3	RFS APXV18-206517S-C	Flush	(6) 1 5/8" Coax	Metro PCS
167.0	167.0	6	Powerwave LGP21401	Platform w/ Handrails	(12) 1 1/4" Coax	AT&T Mobility
		6	Ericsson RRUS 11 (Band 4)			
		2	KMW AM-X-CD-14-65-00T-RET			
		3	Powerwave 7770.00			
145.0	145.0	3	Kathrein Smart Bias Tee	Sector Frames	(18) 1 5/8" Coax	T-Mobile
		3	Andrew ETW200VS12UB			
		3	Andrew ETW190VS12UB			
		3	Andrew SBNHH-1D65A			
126.0	126.0	2	RFS DB-T1-6Z-8AB-0Z	Platform w/ Handrails	(6) 1 5/8" Coax (3) 3" Coax (2) 1 5/8" Fiber	Verizon Wireless
		3	Andrew HBXX-6516DS-A2M			
		3	Andrew LNX-4514DS-A1M			
		3	Antel BXA-80063/6CF			
		3	Andrew HBXX-6517DS-A2M			
	125.0	6	RFS FD9R6004/1C-3L			
	124.0	3	Alcatel-Lucent RRH2X60-1900A-4R			
		3	Alcatel-Lucent RRH2X60-AWS			
3		Alcatel-Lucent RRH2x40-AWS				
121.0	-	-	-	(3) 7/8" Coax		
50.0	50.0	2	Thales PCS VP/360/2 Type 8100	Stand-Off	-	T-Mobile

**Equipment to be Removed**

Elevation <sup>1</sup> (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
167.0	167.0	1	Kathrein 800 10764	-	(2) 0.74" 8 AWG 7 (1) 0.28" RG-6	AT&T Mobility
		1	Raycap DC6-48-60-18-8F.			
	165.0	6	LGP LGP21903			

### Proposed Equipment

Elevation <sup>1</sup> (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
167.0	167.0	3	Ericsson RRUS-32	Platform w/ Handrails	(4) 0.78" 8 AWG 6 (2) 0.39" Fiber Trunk	AT&T Mobility
		1	KMW AM-X-CD-14-65-00T-RET			
		3	CCI OPA-65R-LCUU-H4			
	164.0	2	Raycap DC6-48-60-18-8F			

<sup>1</sup>Mount elevation is defined as height above bottom of steel structure to the bottom of mount, RAD elevation is defined as center of antenna above ground level (AGL).

Install proposed coax inside the pole shaft.

### Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts*	69%	Pass
Shaft	99%	Pass
Base Plate	60%	Pass
Reinforcement	92%	Pass

\*Includes a factor of safety of 2 or greater

### Foundations\*

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	5,680.7	84%
Axial (Kips)	68.3	6%

\*Includes a factor of safety of 2 or greater

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

### Deflection and Sway\*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
185.0	DragonWave A-ANT-18G-2-C	Clearwire	3.036	1.882
167.0	Raycap DC6-48-60-18-8F	AT&T Mobility	2.515	1.828
	Ericsson RRUS-32			
	KMW AM-X-CD-14-65-00T-RET			
	CCI OPA-65R-LCUU-H4			

\*Deflection and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-G



## Standard Conditions

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

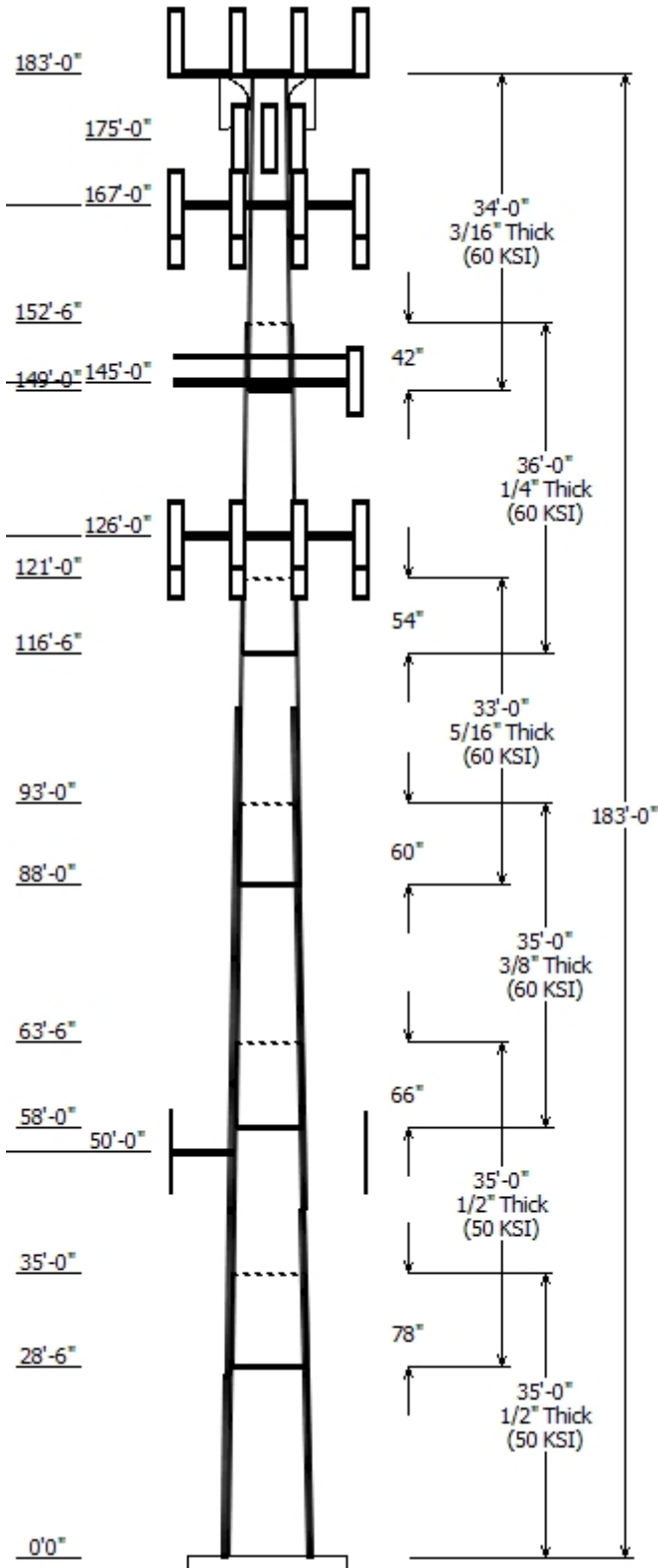
- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements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

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

Unless explicitly agreed by both the client and American Tower Corporation, all services will be performed in accordance with the current revision of ANSI/TIA -222. The design basic wind speed will be determined based on the minimum basic wind speed as prescribed in ANSI/TIA-222. Although every effort is taken to ensure that the loading considered is adequate to meet the requirements of all applicable regulatory entities, we can provide no assurance to meet any other local and state codes or requirements. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement.

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

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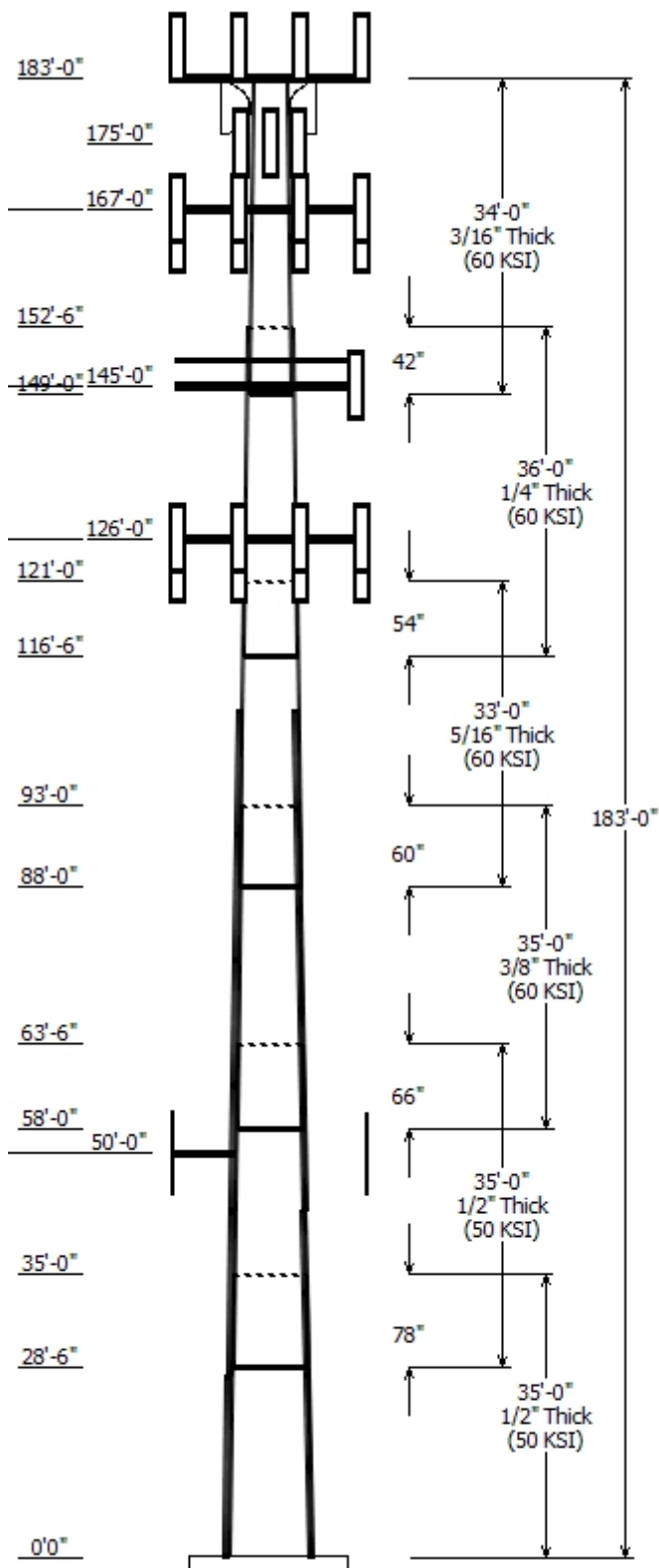
Job Information	
Pole :	302535
Code :	ANSI/TIA-222-G
Description :	183 ft Summit Monopole - Model verified 2/27/13
Client :	AT&T Mobility
Struct Class :	II
Location :	Milford CT 2, CT
Shape :	18 Sides
Exposure :	B
Height :	183.00 (ft)
Topo :	1
Base Elev (ft):	0.00
Taper:	0.17491(in/ft)

Sections Properties								
Shaft Section	Length (ft)	Diameter (in)		Thick (in)	Joint Type	Overlap Length (in)	Steel Taper (in/ft)	Grade (ksi)
		Across Top	Flats Bottom					
1	35.000	42.49	48.62	0.500		0.000	0.174900	50
2	35.000	38.51	44.63	0.500	Slip Joint	78.000	0.174900	50
3	35.000	34.10	40.22	0.375	Slip Joint	66.000	0.174900	60
4	33.000	29.83	35.60	0.313	Slip Joint	60.000	0.174900	60
5	36.000	24.82	31.11	0.250	Slip Joint	54.000	0.174900	60
6	34.000	19.86	25.80	0.188	Slip Joint	42.000	0.174900	60

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
183.000	185.000	3	Andrew 844G65VTASX
183.000	183.000	1	Flat Platform w/ Handrails
183.000	185.000	6	Decibel DB844H90E-XY
183.000	185.000	2	DragonWave Horizon Compact
183.000	185.000	3	Argus LLPX310R
183.000	185.000	3	NextNet BTS-2500
183.000	178.000	2	DragonWave A-ANT-18G-2-C
175.000	175.000	3	RFS APXV18-206517S-C
167.000	167.000	3	CCI OPA-65R-LCUU-H4
167.000	167.000	3	Ericsson RRUS-32
167.000	164.000	2	Raycap DC6-48-60-18-8F
167.000	167.000	1	KMW AM-X-CD-14-65-00T-RET
167.000	167.000	6	Ericsson RRUS 11 (Band 4)
167.000	167.000	2	KMW AM-X-CD-14-65-00T-RET
167.000	167.000	1	Flat Platform w/ Handrails
167.000	167.000	6	Powerwave Allgon LGP21401
167.000	167.000	3	Powerwave Allgon 7770.00
145.000	145.000	3	Flat Light Sector Frame
145.000	145.000	3	Andrew SBNHH-1D65A
145.000	145.000	3	Kathrein Scala Smart Bias Tee
145.000	145.000	3	Andrew ETW190VS12UB
145.000	145.000	3	Andrew ETW200VS12UB
126.000	124.000	3	Alcatel-Lucent RRH2X60-1900A-
126.000	126.000	3	Andrew HBXX-6517DS-A2M
126.000	126.000	3	Andrew LNX-4514DS-A1M
126.000	126.000	3	Andrew HBXX-6516DS-A2M
126.000	124.000	3	Alcatel-Lucent RRH2X60-AWS
126.000	126.000	1	RFS DB-T1-6Z-8AB-0Z
126.000	126.000	1	RFS DB-T1-6Z-8AB-0Z
126.000	124.000	3	Alcatel-Lucent RRH2x40-AWS
126.000	126.000	3	Antel BXA-80063/6CF
126.000	125.000	6	RFS FD9R6004/1C-3L
126.000	126.000	1	Flat Platform w/ Handrails
50.000	50.000	1	Stand-Off
50.000	50.000	2	Thales PCS VP/360/2 Type 8100

Linear Appurtenance			
Elev (ft) From	To	Description	Exposed To Wind
5.000	121.0	7/8" Coax	No



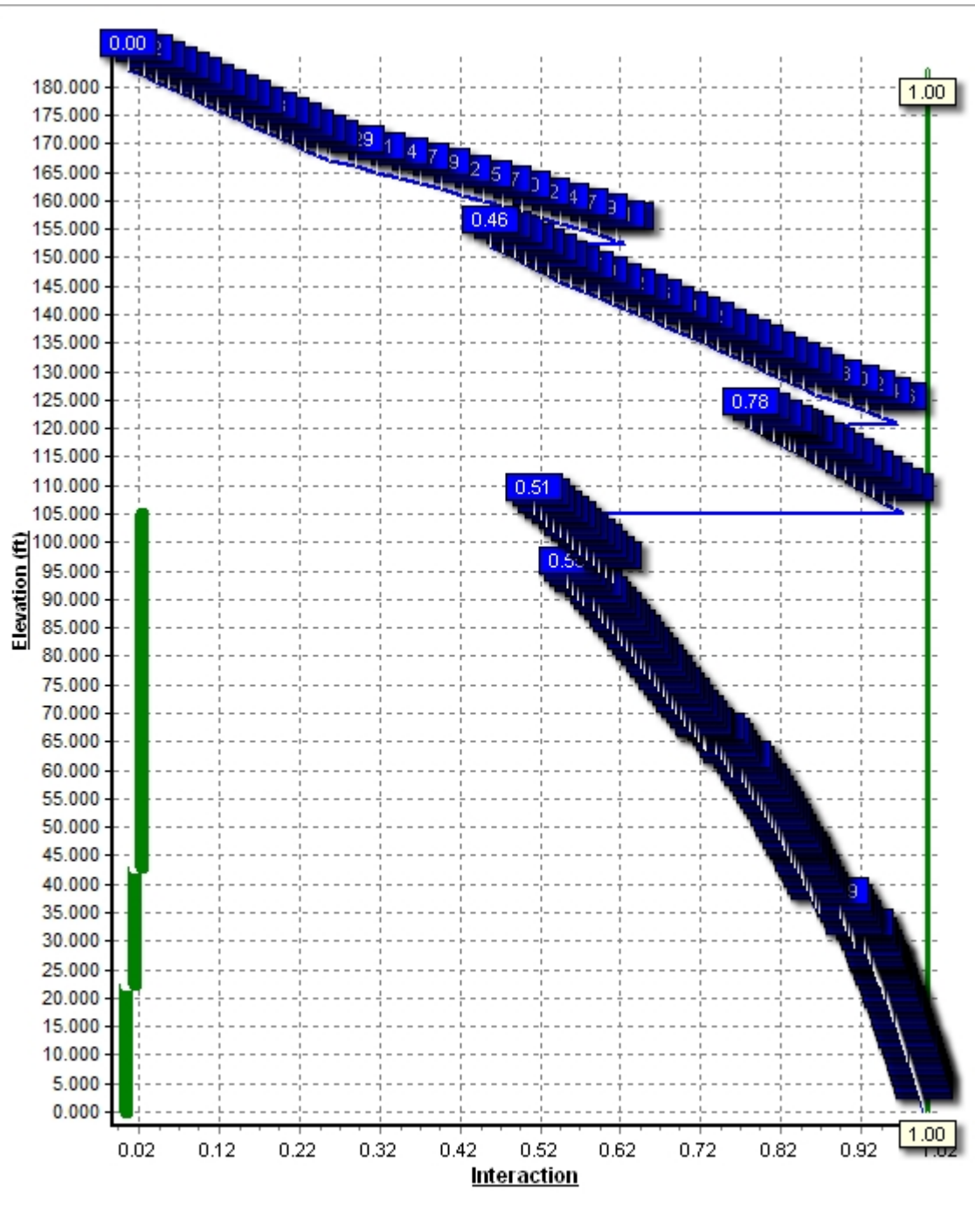


5.000	126.0	1 5/8" Coax	No
5.000	126.0	1 5/8" Fiber	No
5.000	126.0	1 5/8" Fiber	No
5.000	126.0	3" Coax	No
5.000	145.0	1 5/8" Coax	No
5.000	145.0	1 5/8" Coax	Yes
5.000	145.0	1 5/8" Coax	No
5.000	167.0	0.39" Fiber Trunk	No
5.000	167.0	0.78" 8 AWG 6	No
5.000	167.0	1 1/4" Coax	No
5.000	175.0	1 5/8" Coax	Yes
5.000	183.0	1 5/8" Coax	No
5.000	183.0	1/2" Coax	Yes
5.000	183.0	2" Conduit	Yes
5.000	183.0	5/16" Coax	Yes
0.000	110.7	#20 Dywidag Bars	Yes

Load Cases	
1.2D + 1.6W	110 mph with No Ice
0.9D + 1.6W	110 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 0.75 in Radial Ice
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL) Equivalent Lateral
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL) Equivalent Modal
1.0D + 1.0W	Serviceability 60 mph

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	5680.74	46.25	68.31
0.9D + 1.6W	5461.36	44.50	51.23
1.2D + 1.0Di + 1.0Wi	1117.91	8.63	106.01
(1.2 + 0.2Sds) * DL + E ELFM	322.52	2.22	70.25
(1.2 + 0.2Sds) * DL + E EMAM	337.27	2.74	70.25
(0.9 - 0.2Sds) * DL + E ELFM	315.69	2.22	48.65
(0.9 - 0.2Sds) * DL + E EMAM	329.94	2.74	48.65
1.0D + 1.0W	1023.44	8.27	56.95

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	183.00	36.429	1.882



Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

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Customer: AT&T Mobility

**Analysis Parameters**

Location:	New Haven County, CT		
Code:	ANSI/TIA-222-G	Height (ft):	183
Shape:	18 Sides	Base Diameter (in):	48.62
Pole Type:	Taper	Top Diameter (in):	19.86
Pole Manufacturer:	Summit Manufacturing	Taper (in/ft) :	0.175

**Ice & Wind Parameters**

Structure Class:	II	Design Wind Speed Without Ice:	110 mph
Exposure Category:	B	Design Wind Speed With Ice:	50 mph
Topographic Category:	1	Operational Wind Speed:	60 mph
Crest Height:	0.0 ft	Design Ice Thickness:	0.75 in

**Seismic Parameters**

Analysis Method:	Equivalent Modal Analysis & Equivalent Lateral Force Methods		
Site Class:	D - Stiff Soil		
Period Based on Rayleigh Method (sec):	2.87		
T <sub>L</sub> (sec):	6	p:	1.3
S <sub>s</sub> :	0.191	S <sub>1</sub> :	0.063
F <sub>a</sub> :	1.600	F <sub>v</sub> :	2.400
S <sub>ds</sub> :	0.204	S <sub>d1</sub> :	0.101
		C <sub>s</sub> :	0.030
		C <sub>s</sub> Max:	0.030
		C <sub>s</sub> Min:	0.030

**Load Cases**

1.2D + 1.6W	110 mph with No Ice
0.9D + 1.6W	110 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 0.75 in Radial Ice
(1.2 + 0.2Sds) * DL + E ELFM	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2Sds) * DL + E EMAM	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2Sds) * DL + E ELFM	Seismic (Reduced DL) Equivalent Lateral Forces Method
(0.9 - 0.2Sds) * DL + E EMAM	Seismic (Reduced DL) Equivalent Modal Analysis Method
1.0D + 1.0W	Serviceability 60 mph

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

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Customer: AT&T Mobility

**Shaft Section Properties**

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint Len (in)	Weight (lb)	Bottom						Top						
							Dia (in)	Elev (ft)	Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	W/t Ratio	D/t Ratio	Taper (in/ft)
1-18	35.000	0.5000	50		0.00	8,516	48.62	0.00	76.36	22340.1	15.74	97.24	42.49	35.00	66.65	14852.2	13.58	85.00	0.174917
2-18	35.000	0.5000	50	Slip	78.00	7,763	44.63	28.50	70.04	17236.7	14.33	89.27	38.51	63.50	60.32	11012.7	12.17	77.03	0.174917
3-18	35.000	0.3750	60	Slip	66.00	5,215	40.22	58.00	47.43	9515.8	17.50	107.27	34.10	93.00	40.14	5769.4	14.62	90.94	0.174917
4-18	33.000	0.3125	60	Slip	60.00	3,609	35.60	88.00	35.00	5507.2	18.68	113.93	29.83	121.00	29.28	3222.7	15.42	95.46	0.174917
5-18	36.000	0.2500	60	Slip	54.00	2,694	31.11	116.50	24.49	2948.2	20.54	124.47	24.82	152.50	19.50	1486.9	16.10	99.28	0.174917
6-18	34.000	0.1875	60	Slip	42.00	1,559	25.80	149.00	15.25	1264.3	22.86	137.64	19.86	183.00	11.71	572.4	17.27	105.92	0.174917
Shaft Weight						29,356													

**Discrete Appurtenance Properties**

Attach Elev (ft)	Description	Qty	No Ice			Ice			Distance From Face (ft)	Vert Ecc (ft)
			Weight (lb)	EPAa (sf)	Orientation Factor	Weight (lb)	EPAa (sf)	Orientation Factor		
183.00	Andrew 844G65VTZASX	3	16.00	5.310	0.71	175.69	6.332	0.71	0.000	2.000
183.00	Argus LLPX310R	3	28.60	4.290	0.63	139.10	5.208	0.63	0.000	2.000
183.00	Decibel DB844H90E-XY	6	14.00	3.610	0.74	127.41	3.941	0.74	0.000	2.000
183.00	DragonWave A-ANT-18G-2-C	2	27.10	4.690	1.00	126.82	5.992	1.00	0.000	-5.000
183.00	DragonWave Horizon	2	10.60	0.430	0.50	41.81	1.110	0.50	0.000	2.000
183.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,452.29	63.831	1.00	0.000	0.000
183.00	NextNet BTS-2500	3	35.00	1.820	0.50	64.90	3.116	0.50	0.000	2.000
175.00	RFS APXV18-206517S-C	3	26.40	5.170	0.68	146.40	6.429	0.68	0.000	0.000
167.00	CCI OPA-65R-LCUU-H4	3	57.00	6.080	0.66	221.04	7.137	0.66	0.000	0.000
167.00	Ericsson RRUS 11 (Band 4)	6	44.00	2.570	0.50	126.56	3.228	0.50	0.000	0.000
167.00	Ericsson RRUS-32	3	77.00	3.310	0.50	175.48	4.608	0.50	0.000	0.000
167.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,439.02	63.636	1.00	0.000	0.000
167.00	KMW AM-X-CD-14-65-00T-	2	36.40	4.990	0.66	169.38	5.986	0.66	0.000	0.000
167.00	KMW AM-X-CD-14-65-00T-	1	36.40	4.990	0.66	169.38	5.986	0.66	0.000	0.000
167.00	Powerwave Allgon 7770.00	3	35.00	5.510	0.65	171.83	6.572	0.65	0.000	0.000
167.00	Powerwave Allgon LGP21401	6	14.10	1.100	0.50	48.24	1.569	0.50	0.000	0.000
167.00	Raycap DC6-48-60-18-8F	2	20.00	1.110	1.00	101.57	2.529	1.00	0.000	-3.000
145.00	Andrew ETW190VS12UB	3	11.00	0.760	0.50	36.66	1.016	0.50	0.000	0.000
145.00	Andrew ETW200VS12UB	3	11.00	0.470	0.50	29.22	0.373	0.50	0.000	0.000
145.00	Andrew SBNHH-1D65A	3	40.90	5.880	0.69	198.45	6.951	0.69	0.000	0.000
145.00	Flat Light Sector Frame	3	400.00	17.900	0.75	700.45	32.963	0.75	0.000	0.000
145.00	Kathrein Scala Smart Bias	3	3.30	0.090	0.50	10.06	0.244	0.50	0.000	0.000
126.00	Alcatel-Lucent RRH2x40-AWS	3	44.00	2.160	0.50	115.90	2.792	0.50	0.000	-2.000
126.00	Alcatel-Lucent RRH2X60-	3	46.00	1.870	0.50	113.43	2.448	0.50	0.000	-2.000
126.00	Alcatel-Lucent RRH2X60-	3	44.00	1.880	0.50	111.72	2.461	0.50	0.000	-2.000
126.00	Andrew HBXX-6516DS-A2M	3	30.60	5.420	0.67	171.60	6.421	0.67	0.000	0.000
126.00	Andrew HBXX-6517DS-A2M	3	43.00	8.530	0.68	216.12	11.390	0.68	0.000	0.000
126.00	Andrew LNX-4514DS-A1M	3	29.50	6.780	0.64	193.70	7.855	0.64	0.000	0.000
126.00	Antel BXA-80063/6CF	3	14.90	7.580	0.65	178.91	8.820	0.65	0.000	0.000
126.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,398.91	63.044	1.00	0.000	0.000
126.00	RFS DB-T1-6Z-8AB-0Z	1	44.00	4.800	0.50	184.74	5.657	0.50	0.000	0.000
126.00	RFS DB-T1-6Z-8AB-0Z	1	44.00	4.800	0.50	184.74	5.657	0.50	0.000	0.000
126.00	RFS FD9R6004/1C-3L	6	3.10	0.370	0.50	15.90	0.576	0.50	0.000	-1.000
50.00	Stand-Off	1	75.00	2.500	1.00	107.80	3.672	1.00	0.000	0.000
50.00	Thales PCS VP/360/2 Type	2	0.30	0.030	1.00	4.73	0.174	1.00	0.000	0.000
Totals		98	9819.00			23,246.09			Number of Loadings : 35	

**Linear Appurtenance Properties**

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Diameter (in)	Coax Weight (lb/ft)	Projected Width (in)	Exposed To Wind	Carrier
5.00	183.00	12	1 5/8" Coax	1.98	0.82	N	0.00	Sprint Nextel

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:55:05 PM

Customer: AT&T Mobility

5.00	183.00	3	1/2" Coax	0.63	0.15	N	0.00	Y	Clearwire Corporation
5.00	183.00	4	2" Conduit	2.38	3.65	N	2.38	Y	Clearwire Corporation
5.00	183.00	6	5/16" Coax	0.31	0.05	N	0.00	Y	Clearwire Corporation
5.00	175.00	6	1 5/8" Coax	1.98	0.82	N	1.98	Y	Metro PCS Inc
5.00	167.00	2	0.39" Fiber Trunk	0.39	0.06	N	0.00	N	AT&T Mobility
5.00	167.00	4	0.78" 8 AWG 6	0.78	0.59	N	0.00	N	AT&T Mobility
5.00	167.00	12	1 1/4" Coax	1.55	0.63	N	0.00	N	AT&T Mobility
5.00	145.00	6	1 5/8" Coax	1.98	0.82	N	0.00	N	T-Mobile
5.00	145.00	6	1 5/8" Coax	1.98	0.82	N	1.98	Y	T-Mobile
5.00	145.00	6	1 5/8" Coax	1.98	0.82	N	0.00	N	T-Mobile
5.00	126.00	6	1 5/8" Coax	1.98	0.82	N	0.00	N	Verizon Wireless
5.00	126.00	1	1 5/8" Fiber	1.63	1.61	N	0.00	N	Verizon Wireless
5.00	126.00	1	1 5/8" Fiber	1.63	1.61	N	0.00	N	Verizon Wireless
5.00	126.00	3	3" Coax	3.02	1.78	N	0.00	N	Verizon Wireless
5.00	121.00	3	7/8" Coax	1.09	0.33	N	0.00	N	Verizon Wireless
0.00	110.78	4	#20 Dywidag Bars	2.50	0.00	N	1.82	Y	--

**Additional Steel**

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	— Intermediate Connections —		Spacing (in)	Len (in)	Connectors	Continuation?
						Description					
0.00	22.50	4	SOL #20 All Thread	80	2.19	6" Angle Bracket	20.0	3.31	5/8" A36 U-Bolt	No	
22.50	43.00	4	SOL #20 All Thread	80	2.19	6" Angle Bracket	18.0	3.31	5/8" A36 U-Bolt	Yes	
43.00	105.0	4	SOL #20 All Thread	80	2.19	6" Angle Bracket	30.0	3.31	5/8" A36 U-Bolt	Yes	

**Segment Properties** (Max Len : 1.ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	W/t Ratio	D/t Ratio	Fy (ksi)	S (in <sup>3</sup> )	Z (in <sup>3</sup> )	Weight (lb)	Additional Reinforcing		
												Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	Weight (lb)
0.00		0.5000	48.620	76.363	22,340.1	15.74	97.24	63.5	905.0	0.0	0.0	19.64	7,654	0.0
1.00		0.5000	48.445	76.086	22,097.4	15.67	96.89	63.5	898.4	0.0	259.4	19.64	7,605	66.8
2.00		0.5000	48.270	75.808	21,856.4	15.61	96.54	63.5	891.8	0.0	258.4	19.64	7,557	66.8
3.00		0.5000	48.095	75.531	21,617.2	15.55	96.19	63.5	885.3	0.0	257.5	19.64	7,508	66.8
4.00		0.5000	47.920	75.253	21,379.8	15.49	95.84	63.5	878.8	0.0	256.5	19.64	7,460	66.8
5.00		0.5000	47.745	74.975	21,144.0	15.43	95.49	63.5	872.2	0.0	255.6	19.64	7,412	66.8
6.00		0.5000	47.570	74.698	20,910.1	15.37	95.14	63.5	865.8	0.0	254.7	19.64	7,364	66.8
7.00		0.5000	47.395	74.420	20,677.8	15.30	94.79	63.5	859.3	0.0	253.7	19.64	7,317	66.8
8.00		0.5000	47.220	74.143	20,447.3	15.24	94.44	63.5	852.9	0.0	252.8	19.64	7,269	66.8
9.00		0.5000	47.046	73.865	20,218.5	15.18	94.09	63.5	846.5	0.0	251.8	19.64	7,222	66.8
10.00		0.5000	46.871	73.588	19,991.4	15.12	93.74	63.5	840.1	0.0	250.9	19.64	7,175	66.8
11.00		0.5000	46.696	73.310	19,766.0	15.06	93.39	63.5	833.7	0.0	249.9	19.64	7,128	66.8
12.00		0.5000	46.521	73.032	19,542.3	15.00	93.04	63.5	827.4	0.0	249.0	19.64	7,081	66.8
13.00		0.5000	46.346	72.755	19,320.4	14.93	92.69	63.5	821.1	0.0	248.0	19.64	7,034	66.8
14.00		0.5000	46.171	72.477	19,100.1	14.87	92.34	63.5	814.8	0.0	247.1	19.64	6,987	66.8
15.00		0.5000	45.996	72.200	18,881.4	14.81	91.99	63.5	808.5	0.0	246.2	19.64	6,941	66.8
16.00		0.5000	45.821	71.922	18,664.5	14.75	91.64	63.5	802.3	0.0	245.2	19.64	6,895	66.8
17.00		0.5000	45.646	71.644	18,449.2	14.69	91.29	63.5	796.1	0.0	244.3	19.64	6,849	66.8
18.00		0.5000	45.471	71.367	18,235.6	14.63	90.94	63.5	789.9	0.0	243.3	19.64	6,803	66.8
19.00		0.5000	45.296	71.089	18,023.7	14.56	90.59	63.5	783.7	0.0	242.4	19.64	6,757	66.8
20.00		0.5000	45.121	70.812	17,813.3	14.50	90.24	63.5	777.6	0.0	241.4	19.64	6,711	66.8
21.00		0.5000	44.947	70.534	17,604.7	14.44	89.89	63.5	771.5	0.0	240.5	19.64	6,666	66.8
22.00		0.5000	44.772	70.257	17,397.6	14.38	89.54	63.5	765.4	0.0	239.5	19.64	6,620	66.8
22.50	Reinf. Top Reinf	0.5000	44.684	70.118	17,294.7	14.35	89.37	63.5	762.3	0.0	119.4	19.64	6,598	33.4
23.00		0.5000	44.597	69.979	17,192.2	14.32	89.19	63.5	759.3	0.0	119.2	19.64	6,575	33.4
24.00		0.5000	44.422	69.701	16,988.5	14.25	88.84	63.5	753.3	0.0	237.7	19.64	6,530	66.8
25.00		0.5000	44.247	69.424	16,786.3	14.19	88.49	63.5	747.2	0.0	236.7	19.64	6,485	66.8
26.00		0.5000	44.072	69.146	16,585.8	14.13	88.14	63.5	741.2	0.0	235.8	19.64	6,441	66.8
27.00		0.5000	43.897	68.869	16,386.8	14.07	87.79	63.5	735.3	0.0	234.8	19.64	6,396	66.8
28.00		0.5000	43.722	68.591	16,189.5	14.01	87.44	63.5	729.3	0.0	233.9	19.64	6,352	66.8
28.50	Bot - Section 2	0.5000	43.635	68.452	16,091.4	13.98	87.27	63.5	726.3	0.0	116.6	19.64	6,329	33.4
29.00		0.5000	43.547	68.313	15,993.7	13.95	87.09	63.5	723.4	0.0	235.4	19.64	6,562	33.4
30.00		0.5000	43.372	68.036	15,799.5	13.88	86.74	63.5	717.5	0.0	469.4	19.64	6,517	66.8
31.00		0.5000	43.197	67.758	15,606.9	13.82	86.39	63.5	711.6	0.0	467.5	19.64	6,473	66.8
32.00		0.5000	43.022	67.481	15,415.9	13.76	86.04	63.5	705.8	0.0	465.6	19.64	6,428	66.8
33.00		0.5000	42.848	67.203	15,226.4	13.70	85.70	63.5	699.9	0.0	463.7	19.64	6,383	66.8
34.00		0.5000	42.673	66.926	15,038.5	13.64	85.35	63.5	694.1	0.0	461.8	19.64	6,339	66.8
35.00	Top - Section 1	0.5000	43.498	68.235	15,938.6	13.93	87.00	63.5	721.7	0.0	459.9	19.64	6,295	66.8
36.00		0.5000	43.323	67.957	15,744.9	13.87	86.65	63.5	715.8	0.0	231.7	19.64	6,251	66.8
37.00		0.5000	43.148	67.680	15,552.7	13.81	86.30	63.5	710.0	0.0	230.8	19.64	6,207	66.8
38.00		0.5000	42.973	67.402	15,362.1	13.74	85.95	63.5	704.1	0.0	229.8	19.64	6,163	66.8
39.00		0.5000	42.798	67.125	15,173.1	13.68	85.60	63.5	698.3	0.0	228.9	19.64	6,120	66.8
40.00		0.5000	42.623	66.847	14,985.6	13.62	85.25	63.5	692.5	0.0	227.9	19.64	6,076	66.8
41.00		0.5000	42.448	66.569	14,799.7	13.56	84.90	63.5	686.7	0.0	227.0	19.64	6,033	66.8
42.00		0.5000	42.273	66.292	14,615.4	13.50	84.55	63.5	681.0	0.0	226.0	19.64	5,990	66.8
43.00	Reinf. Top Reinf	0.5000	42.098	66.014	14,432.5	13.44	84.20	63.5	675.2	0.0	225.1	19.64	5,947	66.8
44.00		0.5000	41.923	65.737	14,251.2	13.37	83.85	63.5	669.5	0.0	224.2	19.64	5,904	66.8
45.00		0.5000	41.749	65.459	14,071.5	13.31	83.50	63.5	663.9	0.0	223.2	19.64	5,861	66.8
46.00		0.5000	41.574	65.181	13,893.2	13.25	83.15	63.5	658.2	0.0	222.3	19.64	5,819	66.8
47.00		0.5000	41.399	64.904	13,716.5	13.19	82.80	63.5	652.6	0.0	221.3	19.64	5,776	66.8
48.00		0.5000	41.224	64.626	13,541.2	13.13	82.45	63.5	647.0	0.0	220.4	19.64	5,734	66.8
49.00		0.5000	41.049	64.349	13,367.5	13.07	82.10	63.5	641.4	0.0	219.4	19.64	5,692	66.8
50.00		0.5000	40.874	64.071	13,195.2	13.00	81.75	63.5	635.8	0.0	218.5	19.64	5,650	66.8
51.00		0.5000	40.699	63.794	13,024.5	12.94	81.40	63.5	630.3	0.0	217.5	19.64	5,609	66.8
52.00		0.5000	40.524	63.516	12,855.2	12.88	81.05	63.5	624.8	0.0	216.6	19.64	5,567	66.8
53.00		0.5000	40.349	63.238	12,687.4	12.82	80.70	63.5	619.3	0.0	215.7	19.64	5,526	66.8
54.00		0.5000	40.174	62.961	12,521.0	12.76	80.35	63.5	613.9	0.0	214.7	19.64	5,484	66.8
55.00		0.5000	39.999	62.683	12,356.2	12.70	80.00	63.5	608.4	0.0	213.8	19.64	5,443	66.8

56.00		0.5000	39.824	62.406	12,192.7	12.63	79.65	63.5	603.0	0.0	212.8	19.64	5,402	66.8
57.00		0.5000	39.650	62.128	12,030.8	12.57	79.30	63.5	597.6	0.0	211.9	19.64	5,361	66.8
58.00	Bot - Section 3	0.5000	39.475	61.850	11,870.2	12.51	78.95	63.5	592.3	0.0	210.9	19.64	5,321	66.8
59.00		0.5000	39.300	61.573	11,711.1	12.45	78.60	63.5	586.9	0.0	371.0	19.64	5,455	66.8
60.00		0.5000	39.125	61.295	11,553.4	12.39	78.25	63.5	581.6	0.0	369.4	19.64	5,414	66.8
61.00		0.5000	38.950	61.018	11,397.2	12.33	77.90	63.5	576.3	0.0	367.7	19.64	5,373	66.8
62.00		0.5000	38.775	60.740	11,242.4	12.26	77.55	63.5	571.1	0.0	366.1	19.64	5,332	66.8
63.00		0.5000	38.600	60.463	11,088.9	12.20	77.20	63.5	565.8	0.0	364.4	19.64	5,292	66.8
63.50	Top - Section 2	0.3750	39.263	46.284	8,843.2	17.05	104.70	75.8	443.6	0.0	181.6	19.64	5,272	33.4
64.00		0.3750	39.175	46.180	8,783.6	17.01	104.47	75.9	441.6	0.0	78.7	19.64	5,251	33.4
65.00		0.3750	39.000	45.972	8,665.4	16.93	104.00	75.9	437.6	0.0	156.8	19.64	5,211	66.8
66.00		0.3750	38.825	45.764	8,548.2	16.85	103.53	76.0	433.7	0.0	156.1	19.64	5,171	66.8
67.00		0.3750	38.650	45.556	8,432.0	16.76	103.07	76.1	429.7	0.0	155.4	19.64	5,131	66.8
68.00		0.3750	38.475	45.347	8,317.0	16.68	102.60	76.2	425.8	0.0	154.7	19.64	5,092	66.8
69.00		0.3750	38.300	45.139	8,202.9	16.60	102.13	76.2	421.8	0.0	154.0	19.64	5,052	66.8
70.00		0.3750	38.126	44.931	8,090.0	16.52	101.67	76.2	417.9	0.0	153.2	19.64	5,012	66.8
71.00		0.3750	37.951	44.723	7,978.0	16.43	101.20	76.2	414.1	0.0	152.5	19.64	4,973	66.8
72.00		0.3750	37.776	44.515	7,867.1	16.35	100.74	76.2	410.2	0.0	151.8	19.64	4,934	66.8
73.00		0.3750	37.601	44.306	7,757.3	16.27	100.27	76.2	406.3	0.0	151.1	19.64	4,895	66.8
74.00		0.3750	37.426	44.098	7,648.4	16.19	99.80	76.2	402.5	0.0	150.4	19.64	4,856	66.8
75.00		0.3750	37.251	43.890	7,540.6	16.10	99.34	76.2	398.7	0.0	149.7	19.64	4,817	66.8
76.00		0.3750	37.076	43.682	7,433.8	16.02	98.87	76.2	394.9	0.0	149.0	19.64	4,779	66.8
77.00		0.3750	36.901	43.474	7,328.0	15.94	98.40	76.2	391.1	0.0	148.3	19.64	4,741	66.8
78.00		0.3750	36.726	43.266	7,223.3	15.86	97.94	76.2	387.4	0.0	147.6	19.64	4,702	66.8
79.00		0.3750	36.551	43.057	7,119.5	15.78	97.47	76.2	383.6	0.0	146.9	19.64	4,664	66.8
80.00		0.3750	36.376	42.849	7,016.7	15.69	97.00	76.2	379.9	0.0	146.2	19.64	4,626	66.8
81.00		0.3750	36.201	42.641	6,914.9	15.61	96.54	76.2	376.2	0.0	145.5	19.64	4,589	66.8
82.00		0.3750	36.027	42.433	6,814.1	15.53	96.07	76.2	372.5	0.0	144.7	19.64	4,551	66.8
83.00		0.3750	35.852	42.225	6,714.3	15.45	95.60	76.2	368.9	0.0	144.0	19.64	4,514	66.8
84.00		0.3750	35.677	42.016	6,615.5	15.36	95.14	76.2	365.2	0.0	143.3	19.64	4,476	66.8
85.00		0.3750	35.502	41.808	6,517.7	15.28	94.67	76.2	361.6	0.0	142.6	19.64	4,439	66.8
86.00		0.3750	35.327	41.600	6,420.8	15.20	94.21	76.2	358.0	0.0	141.9	19.64	4,402	66.8
87.00		0.3750	35.152	41.392	6,324.9	15.12	93.74	76.2	354.4	0.0	141.2	19.64	4,365	66.8
88.00	Bot - Section 4	0.3750	34.977	41.184	6,229.9	15.04	93.27	76.2	350.8	0.0	140.5	19.64	4,329	66.8
89.00		0.3750	34.802	40.975	6,135.9	14.95	92.81	76.2	347.3	0.0	258.6	19.64	4,423	66.8
90.00		0.3750	34.627	40.767	6,042.9	14.87	92.34	76.2	343.7	0.0	257.3	19.64	4,386	66.8
91.00		0.3750	34.452	40.559	5,950.7	14.79	91.87	76.2	340.2	0.0	256.0	19.64	4,350	66.8
92.00		0.3750	34.277	40.351	5,859.6	14.71	91.41	76.2	336.7	0.0	254.7	19.64	4,313	66.8
93.00	Top - Section 3	0.3125	34.727	34.134	5,107.8	18.18	111.13	74.6	289.7	0.0	253.4	19.64	4,277	66.8
94.00		0.3125	34.553	33.961	5,030.3	18.09	110.57	74.7	286.7	0.0	115.9	19.64	4,240	66.8
95.00		0.3125	34.378	33.787	4,953.6	17.99	110.01	74.8	283.8	0.0	115.3	19.64	4,204	66.8
96.00		0.3125	34.203	33.614	4,877.7	17.89	109.45	74.9	280.9	0.0	114.7	19.64	4,168	66.8
97.00		0.3125	34.028	33.440	4,802.6	17.79	108.89	75.0	278.0	0.0	114.1	19.64	4,132	66.8
98.00		0.3125	33.853	33.267	4,728.2	17.69	108.33	75.1	275.1	0.0	113.5	19.64	4,097	66.8
99.00		0.3125	33.678	33.093	4,654.6	17.59	107.77	75.3	272.2	0.0	112.9	19.64	4,061	66.8
100.00		0.3125	33.503	32.920	4,581.8	17.49	107.21	75.4	269.4	0.0	112.3	19.64	4,026	66.8
101.00		0.3125	33.328	32.746	4,509.8	17.39	106.65	75.5	266.5	0.0	111.7	19.64	3,991	66.8
102.00		0.3125	33.153	32.573	4,438.5	17.30	106.09	75.6	263.7	0.0	111.1	19.64	3,956	66.8
103.00		0.3125	32.978	32.399	4,367.9	17.20	105.53	75.7	260.9	0.0	110.5	19.64	3,921	66.8
104.00		0.3125	32.803	32.226	4,298.1	17.10	104.97	75.8	258.1	0.0	110.0	19.64	3,886	66.8
105.00	Reinf. Top	0.3125	32.628	32.052	4,229.1	17.00	104.41	75.9	255.3	0.0	109.4	19.64	3,851	66.8
106.00		0.3125	32.454	31.879	4,160.8	16.90	103.85	76.0	252.5	0.0	108.8			
107.00		0.3125	32.279	31.705	4,093.2	16.80	103.29	76.1	249.8	0.0	108.2			
108.00		0.3125	32.104	31.532	4,026.4	16.70	102.73	76.2	247.0	0.0	107.6			
109.00		0.3125	31.929	31.358	3,960.3	16.61	102.17	76.2	244.3	0.0	107.0			
110.00		0.3125	31.754	31.185	3,894.9	16.51	101.61	76.2	241.6	0.0	106.4			
111.00		0.3125	31.579	31.011	3,830.3	16.41	101.05	76.2	238.9	0.0	105.8			
112.00		0.3125	31.404	30.838	3,766.4	16.31	100.49	76.2	236.2	0.0	105.2			
113.00		0.3125	31.229	30.664	3,703.1	16.21	99.93	76.2	233.6	0.0	104.6			
114.00		0.3125	31.054	30.491	3,640.6	16.11	99.37	76.2	230.9	0.0	104.0			
115.00		0.3125	30.879	30.317	3,578.9	16.01	98.81	76.2	228.3	0.0	103.5			
116.00		0.3125	30.704	30.144	3,517.8	15.91	98.25	76.2	225.7	0.0	102.9			
116.50	Bot - Section 5	0.3125	30.617	30.057	3,487.5	15.86	97.97	76.2	224.4	0.0	51.2			
117.00		0.3125	30.529	29.970	3,457.4	15.82	97.69	76.2	223.1	0.0	92.7			

118.0		0.3125	30.355	29.797	3,397.7	15.72	97.13	76.2	220.5	0.0	184.6
119.0		0.3125	30.180	29.623	3,338.7	15.62	96.57	76.2	217.9	0.0	183.5
120.0		0.3125	30.005	29.450	3,280.4	15.52	96.02	76.2	215.3	0.0	182.4
121.0	Top - Section 4	0.2500	30.330	23.867	2,728.4	19.98	121.32	72.8	177.2	0.0	181.4
122.0		0.2500	30.155	23.729	2,681.1	19.86	120.62	72.9	175.1	0.0	81.0
123.0		0.2500	29.980	23.590	2,634.3	19.73	119.92	73.0	173.1	0.0	80.5
124.0		0.2500	29.805	23.451	2,588.1	19.61	119.22	73.1	171.0	0.0	80.0
125.0		0.2500	29.630	23.312	2,542.4	19.49	118.52	73.3	169.0	0.0	79.6
126.0		0.2500	29.455	23.173	2,497.3	19.36	117.82	73.4	167.0	0.0	79.1
127.0		0.2500	29.280	23.035	2,452.7	19.24	117.12	73.5	165.0	0.0	78.6
128.0		0.2500	29.105	22.896	2,408.6	19.12	116.42	73.7	163.0	0.0	78.1
129.0		0.2500	28.930	22.757	2,365.1	18.99	115.72	73.8	161.0	0.0	77.7
130.0		0.2500	28.756	22.618	2,322.1	18.87	115.02	73.9	159.0	0.0	77.2
131.0		0.2500	28.581	22.480	2,279.6	18.75	114.32	74.0	157.1	0.0	76.7
132.0		0.2500	28.406	22.341	2,237.6	18.62	113.62	74.2	155.2	0.0	76.3
133.0		0.2500	28.231	22.202	2,196.2	18.50	112.92	74.3	153.2	0.0	75.8
134.0		0.2500	28.056	22.063	2,155.2	18.38	112.22	74.4	151.3	0.0	75.3
135.0		0.2500	27.881	21.924	2,114.8	18.25	111.52	74.6	149.4	0.0	74.8
136.0		0.2500	27.706	21.786	2,074.9	18.13	110.82	74.7	147.5	0.0	74.4
137.0		0.2500	27.531	21.647	2,035.5	18.01	110.12	74.8	145.6	0.0	73.9
138.0		0.2500	27.356	21.508	1,996.6	17.88	109.42	74.9	143.8	0.0	73.4
139.0		0.2500	27.181	21.369	1,958.2	17.76	108.73	75.1	141.9	0.0	73.0
140.0		0.2500	27.006	21.230	1,920.3	17.64	108.03	75.2	140.0	0.0	72.5
141.0		0.2500	26.831	21.092	1,882.9	17.51	107.33	75.3	138.2	0.0	72.0
142.0		0.2500	26.657	20.953	1,845.9	17.39	106.63	75.5	136.4	0.0	71.5
143.0		0.2500	26.482	20.814	1,809.5	17.27	105.93	75.6	134.6	0.0	71.1
144.0		0.2500	26.307	20.675	1,773.5	17.14	105.23	75.7	132.8	0.0	70.6
145.0		0.2500	26.132	20.536	1,738.1	17.02	104.53	75.8	131.0	0.0	70.1
146.0		0.2500	25.957	20.398	1,703.1	16.90	103.83	76.0	129.2	0.0	69.6
147.0		0.2500	25.782	20.259	1,668.5	16.77	103.13	76.1	127.5	0.0	69.2
148.0		0.2500	25.607	20.120	1,634.5	16.65	102.43	76.2	125.7	0.0	68.7
149.0	Bot - Section 6	0.2500	25.432	19.981	1,600.9	16.53	101.73	76.2	124.0	0.0	68.2
150.0		0.2500	25.257	19.842	1,567.8	16.40	101.03	76.2	122.3	0.0	119.5
151.0		0.2500	25.082	19.704	1,535.1	16.28	100.33	76.2	120.5	0.0	118.6
152.0	Top - Section 5	0.2500	24.907	19.565	1,502.9	16.16	99.63	76.2	118.8	0.0	117.8
152.5		0.1875	25.195	14.882	1,175.8	22.28	134.37	70.4	91.9	0.0	58.6
153.0		0.1875	25.107	14.830	1,163.6	22.20	133.91	70.4	91.3	0.0	25.3
154.0		0.1875	24.933	14.726	1,139.2	22.04	132.97	70.6	90.0	0.0	50.3
155.0		0.1875	24.758	14.622	1,115.2	21.87	132.04	70.8	88.7	0.0	49.9
156.0		0.1875	24.583	14.518	1,091.6	21.71	131.11	71.0	87.5	0.0	49.6
157.0		0.1875	24.408	14.414	1,068.3	21.54	130.17	71.1	86.2	0.0	49.2
158.0		0.1875	24.233	14.309	1,045.3	21.38	129.24	71.3	85.0	0.0	48.9
159.0		0.1875	24.058	14.205	1,022.6	21.21	128.31	71.5	83.7	0.0	48.5
160.0		0.1875	23.883	14.101	1,000.3	21.05	127.38	71.6	82.5	0.0	48.2
161.0		0.1875	23.708	13.997	978.3	20.88	126.44	71.8	81.3	0.0	47.8
162.0		0.1875	23.533	13.893	956.7	20.72	125.51	72.0	80.1	0.0	47.5
163.0		0.1875	23.358	13.789	935.3	20.56	124.58	72.2	78.9	0.0	47.1
164.0		0.1875	23.183	13.685	914.3	20.39	123.64	72.3	77.7	0.0	46.7
165.0		0.1875	23.008	13.581	893.6	20.23	122.71	72.5	76.5	0.0	46.4
166.0		0.1875	22.833	13.477	873.2	20.06	121.78	72.7	75.3	0.0	46.0
167.0		0.1875	22.659	13.373	853.1	19.90	120.85	72.8	74.2	0.0	45.7
168.0		0.1875	22.484	13.269	833.4	19.73	119.91	73.0	73.0	0.0	45.3
169.0		0.1875	22.309	13.164	813.9	19.57	118.98	73.2	71.9	0.0	45.0
170.0		0.1875	22.134	13.060	794.8	19.40	118.05	73.4	70.7	0.0	44.6
171.0		0.1875	21.959	12.956	775.9	19.24	117.11	73.5	69.6	0.0	44.3
172.0		0.1875	21.784	12.852	757.3	19.08	116.18	73.7	68.5	0.0	43.9
173.0		0.1875	21.609	12.748	739.1	18.91	115.25	73.9	67.4	0.0	43.6
174.0		0.1875	21.434	12.644	721.1	18.75	114.32	74.0	66.3	0.0	43.2
175.0		0.1875	21.259	12.540	703.5	18.58	113.38	74.2	65.2	0.0	42.8
176.0		0.1875	21.084	12.436	686.1	18.42	112.45	74.4	64.1	0.0	42.5
177.0		0.1875	20.909	12.332	669.0	18.25	111.52	74.6	63.0	0.0	42.1
178.0		0.1875	20.734	12.228	652.2	18.09	110.58	74.7	62.0	0.0	41.8
179.0		0.1875	20.560	12.123	635.7	17.92	109.65	74.9	60.9	0.0	41.4
180.0		0.1875	20.385	12.019	619.5	17.76	108.72	75.1	59.9	0.0	41.1



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Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

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Customer: AT&T Mobility

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181.0	0.1875	20.210	11.915	603.5	17.59	107.79	75.2	58.8	0.0	40.7	
182.0	0.1875	20.035	11.811	587.8	17.43	106.85	75.4	57.8	0.0	40.4	
183.0	0.1875	19.860	11.707	572.4	17.27	105.92	75.6	56.8	0.0	40.0	
									29,356.2		7,014.0

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:55:05 PM

Customer: AT&T Mobility

**Load Case:** 1.2D + 1.6W

110 mph with No Ice

36 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

**Applied Segment Forces Summary**

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		48.4	0.0					0.0	0.0	48.4	0.0	0.0	0.0
1.00		96.6	311.3					0.0	80.2	96.6	391.4	0.0	0.0
2.00		96.3	310.1					0.0	80.2	96.3	390.3	0.0	0.0
3.00		95.9	309.0					0.0	80.2	95.9	389.1	0.0	0.0
4.00		95.6	307.8					0.0	80.2	95.6	388.0	0.0	0.0
5.00		105.0	306.7					0.0	80.2	105.0	386.9	0.0	0.0
6.00		114.5	305.6					0.0	163.4	114.5	469.0	0.0	0.0
7.00		114.2	304.4					0.0	163.4	114.2	467.9	0.0	0.0
8.00		114.0	303.3					0.0	163.4	114.0	466.7	0.0	0.0
9.00		113.7	302.2					0.0	163.4	113.7	465.6	0.0	0.0
10.00		113.5	301.0					0.0	163.4	113.5	464.5	0.0	0.0
11.00		113.3	299.9					0.0	163.4	113.3	463.3	0.0	0.0
12.00		113.0	298.8					0.0	163.4	113.0	462.2	0.0	0.0
13.00		112.8	297.6					0.0	163.4	112.8	461.1	0.0	0.0
14.00		112.5	296.5					0.0	163.4	112.5	459.9	0.0	0.0
15.00		112.3	295.4					0.0	163.4	112.3	458.8	0.0	0.0
16.00		112.0	294.2					0.0	163.4	112.0	457.7	0.0	0.0
17.00		111.8	293.1					0.0	163.4	111.8	456.5	0.0	0.0
18.00		111.5	292.0					0.0	163.4	111.5	455.4	0.0	0.0
19.00		111.3	290.8					0.0	163.4	111.3	454.3	0.0	0.0
20.00		111.1	289.7					0.0	163.4	111.1	453.1	0.0	0.0
21.00		110.8	288.6					0.0	163.4	110.8	452.0	0.0	0.0
22.00		83.0	287.4					0.0	163.4	83.0	450.9	0.0	0.0
22.50	Reinf. Top Reinf	55.2	143.3					0.0	81.7	55.2	225.0	0.0	0.0
23.00		82.7	143.0					0.0	81.7	82.7	224.7	0.0	0.0
24.00		110.1	285.2					0.0	163.4	110.1	448.6	0.0	0.0
25.00		109.8	284.0					0.0	163.4	109.8	447.5	0.0	0.0
26.00		109.6	282.9					0.0	163.4	109.6	446.3	0.0	0.0
27.00		109.3	281.8					0.0	163.4	109.3	445.2	0.0	0.0
28.00		81.9	280.6					0.0	163.4	81.9	444.1	0.0	0.0
28.50	Bot - Section 2	55.1	139.9					0.0	81.7	55.1	221.6	0.0	0.0
29.00		83.5	282.5					0.0	81.7	83.5	364.2	0.0	0.0
30.00		111.4	563.2					0.0	163.4	111.4	726.7	0.0	0.0
31.00		112.0	561.0					0.0	163.4	112.0	724.4	0.0	0.0
32.00		112.8	558.7					0.0	163.4	112.8	722.1	0.0	0.0
33.00		113.5	556.4					0.0	163.4	113.5	719.9	0.0	0.0
34.00		114.3	554.2					0.0	163.4	114.3	717.6	0.0	0.0
35.00	Top - Section 1	114.4	551.9					0.0	163.4	114.4	715.3	0.0	0.0
36.00		114.4	278.1					0.0	163.4	114.4	441.5	0.0	0.0
37.00		115.1	276.9					0.0	163.4	115.1	440.3	0.0	0.0
38.00		115.7	275.8					0.0	163.4	115.7	439.2	0.0	0.0
39.00		116.3	274.7					0.0	163.4	116.3	438.1	0.0	0.0
40.00		116.9	273.5					0.0	163.4	116.9	436.9	0.0	0.0
41.00		117.4	272.4					0.0	163.4	117.4	435.8	0.0	0.0
42.00		118.0	271.3					0.0	163.4	118.0	434.7	0.0	0.0
43.00	Reinf. Top Reinf	118.5	270.1					0.0	163.4	118.5	433.5	0.0	0.0
44.00		119.0	269.0					0.0	163.4	119.0	432.4	0.0	0.0
45.00		119.5	267.9					0.0	163.4	119.5	431.3	0.0	0.0

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:55:19 PM

Customer: AT&T Mobility

<b>Load Case: 1.2D + 1.6W</b>	<b>110 mph with No Ice</b>						<b>36 Iterations</b>			
Gust Response Factor : 1.10							Wind Importance Factor : 1.00			
Dead Load Factor : 1.20										
Wind Load Factor : 1.60										

46.00		120.0	266.7					0.0	163.4	120.0	430.1	0.0	0.0
47.00		120.4	265.6					0.0	163.4	120.4	429.0	0.0	0.0
48.00		120.9	264.5					0.0	163.4	120.9	427.9	0.0	0.0
49.00		121.3	263.3					0.0	163.4	121.3	426.7	0.0	0.0
50.00	Appertunance(s)	121.7	262.2	107.5	0.0	0.0	90.7	0.0	163.4	229.2	516.3	0.0	0.0
51.00		122.2	261.1					0.0	163.4	122.2	424.5	0.0	0.0
52.00		122.5	259.9					0.0	163.4	122.5	423.3	0.0	0.0
53.00		122.9	258.8					0.0	163.4	122.9	422.2	0.0	0.0
54.00		149.1	257.7					0.0	163.4	149.1	421.1	0.0	0.0
55.00		175.2	256.5					35.1	163.4	210.4	419.9	0.0	0.0
56.00		175.4	255.4					35.3	163.4	210.7	418.8	0.0	0.0
57.00		175.5	254.3					35.5	163.4	211.0	417.7	0.0	0.0
58.00	Bot - Section 3	177.3	253.1					35.7	163.4	212.9	416.5	0.0	0.0
59.00		179.0	445.2					35.8	163.4	214.8	608.6	0.0	0.0
60.00		179.1	443.3					36.0	163.4	215.1	606.7	0.0	0.0
61.00		179.2	441.3					36.2	163.4	215.3	604.7	0.0	0.0
62.00		179.2	439.3					36.3	163.4	215.5	602.7	0.0	0.0
63.00		134.4	437.3					36.5	163.4	170.9	600.7	0.0	0.0
63.50	Top - Section 2	89.6	217.9					18.3	81.7	107.9	299.6	0.0	0.0
64.00		134.4	94.4					18.4	81.7	152.8	176.1	0.0	0.0
65.00		179.2	188.1					36.8	163.4	216.1	351.6	0.0	0.0
66.00		179.2	187.3					37.0	163.4	216.2	350.7	0.0	0.0
67.00		179.2	186.4					37.2	163.4	216.3	349.9	0.0	0.0
68.00		179.1	185.6					37.3	163.4	216.4	349.0	0.0	0.0
69.00		179.0	184.7					37.5	163.4	216.5	348.2	0.0	0.0
70.00		178.9	183.9					37.6	163.4	216.6	347.3	0.0	0.0
71.00		178.8	183.0					37.8	163.4	216.6	346.5	0.0	0.0
72.00		178.7	182.2					37.9	163.4	216.7	345.6	0.0	0.0
73.00		178.6	181.3					38.1	163.4	216.7	344.8	0.0	0.0
74.00		178.5	180.5					38.2	163.4	216.7	343.9	0.0	0.0
75.00		178.3	179.6					38.4	163.4	216.7	343.1	0.0	0.0
76.00		178.2	178.8					38.5	163.4	216.7	342.2	0.0	0.0
77.00		178.0	177.9					38.7	163.4	216.7	341.4	0.0	0.0
78.00		177.8	177.1					38.8	163.4	216.6	340.5	0.0	0.0
79.00		177.6	176.2					39.0	163.4	216.6	339.7	0.0	0.0
80.00		177.4	175.4					39.1	163.4	216.5	338.8	0.0	0.0
81.00		177.2	174.5					39.3	163.4	216.4	338.0	0.0	0.0
82.00		176.9	173.7					39.4	163.4	216.3	337.1	0.0	0.0
83.00		176.7	172.8					39.5	163.4	216.2	336.3	0.0	0.0
84.00		176.4	172.0					39.7	163.4	216.1	335.4	0.0	0.0
85.00		176.1	171.1					39.8	163.4	215.9	334.6	0.0	0.0
86.00		175.9	170.3					39.9	163.4	215.8	333.7	0.0	0.0
87.00		175.6	169.4					40.1	163.4	215.6	332.9	0.0	0.0
88.00	Bot - Section 4	176.8	168.6					40.2	163.4	217.0	332.0	0.0	0.0
89.00		178.1	310.3					40.3	163.4	218.4	473.7	0.0	0.0
90.00		177.8	308.8					40.5	163.4	218.2	472.2	0.0	0.0
91.00		177.5	307.2					40.6	163.4	218.0	470.6	0.0	0.0
92.00		177.1	305.6					40.7	163.4	217.8	469.1	0.0	0.0
93.00	Top - Section 3	176.8	304.1					40.8	163.4	217.6	467.5	0.0	0.0
94.00		176.4	139.0					41.0	163.4	217.4	302.4	0.0	0.0
95.00		176.1	138.3					41.1	163.4	217.2	301.7	0.0	0.0
96.00		175.7	137.6					41.2	163.4	216.9	301.0	0.0	0.0
97.00		175.3	136.9					41.3	163.4	216.7	300.3	0.0	0.0
98.00		174.9	136.2					41.5	163.4	216.4	299.6	0.0	0.0
99.00		174.5	135.5					41.6	163.4	216.1	298.9	0.0	0.0
100.00		174.1	134.8					41.7	163.4	215.8	298.2	0.0	0.0
101.00		173.7	134.1					41.8	163.4	215.5	297.5	0.0	0.0

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

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Customer: AT&T Mobility

<b>Load Case: 1.2D + 1.6W</b>	<b>110 mph with No Ice</b>						<b>36 Iterations</b>			
Gust Response Factor : 1.10							Wind Importance Factor : 1.00			
Dead Load Factor : 1.20										
Wind Load Factor : 1.60										

102.00		173.3	133.4				41.9	163.4	215.2	296.8	0.0	0.0	
103.00		172.8	132.7				42.1	163.4	214.9	296.1	0.0	0.0	
104.00		172.4	131.9				42.2	163.4	214.6	295.4	0.0	0.0	
105.00	Reinf. Top	172.0	131.2				42.3	163.4	214.2	294.6	0.0	0.0	
106.00		171.5	130.5				42.4	83.3	213.9	213.8	0.0	0.0	
107.00		171.0	129.8				42.5	83.3	213.6	213.1	0.0	0.0	
108.00		170.6	129.1				42.6	83.3	213.2	212.4	0.0	0.0	
109.00		170.1	128.4				42.7	83.3	212.8	211.7	0.0	0.0	
110.00		169.6	127.7				42.9	83.3	212.4	210.9	0.0	0.0	
111.00		143.9	127.0				40.9	83.3	184.8	210.2	0.0	0.0	
112.00		118.4	126.3				0.0	83.3	118.4	209.5	0.0	0.0	
113.00		143.1	125.6				0.0	83.3	143.1	208.8	0.0	0.0	
114.00		167.6	124.9				33.6	83.3	201.2	208.1	0.0	0.0	
115.00		167.0	124.2				33.7	83.3	200.8	207.4	0.0	0.0	
116.00		125.0	123.4				33.8	83.3	158.8	206.7	0.0	0.0	
116.50	Bot - Section 5	83.8	61.5				16.9	41.6	100.7	103.1	0.0	0.0	
117.00		126.4	111.2				17.0	41.6	143.4	152.8	0.0	0.0	
118.00		168.1	221.5				34.0	83.3	202.1	304.7	0.0	0.0	
119.00		167.6	220.2				34.1	83.3	201.6	303.4	0.0	0.0	
120.00		167.0	218.9				34.1	83.3	201.2	302.2	0.0	0.0	
121.00	Top - Section 4	166.5	217.6				34.2	83.3	200.7	300.9	0.0	0.0	
122.00		165.9	97.2				34.3	82.1	200.2	179.2	0.0	0.0	
123.00		165.3	96.6				34.4	82.1	199.7	178.7	0.0	0.0	
124.00		164.7	96.0				34.5	82.1	199.2	178.1	0.0	0.0	
125.00		164.1	95.5				34.5	82.1	198.7	177.5	0.0	0.0	
126.00	Appertunance(s)	163.5	94.9	5,222.6	0.0	-769.2	3,435.1	34.6	82.1	5,420.8	3,612.1	0.0	0.0
127.00		162.9	94.3				34.7	65.9	197.6	160.2	0.0	0.0	
128.00		162.3	93.8				34.8	65.9	197.1	159.7	0.0	0.0	
129.00		161.7	93.2				34.9	65.9	196.6	159.1	0.0	0.0	
130.00		161.1	92.6				34.9	65.9	196.0	158.5	0.0	0.0	
131.00		160.5	92.1				35.0	65.9	195.5	158.0	0.0	0.0	
132.00		159.8	91.5				35.1	65.9	194.9	157.4	0.0	0.0	
133.00		159.2	90.9				35.2	65.9	194.3	156.8	0.0	0.0	
134.00		158.5	90.4				35.2	65.9	193.8	156.3	0.0	0.0	
135.00		157.9	89.8				35.3	65.9	193.2	155.7	0.0	0.0	
136.00		157.2	89.2				35.4	65.9	192.6	155.1	0.0	0.0	
137.00		156.6	88.7				35.5	65.9	192.0	154.6	0.0	0.0	
138.00		155.9	88.1				35.5	65.9	191.4	154.0	0.0	0.0	
139.00		155.2	87.5				35.6	65.9	190.8	153.4	0.0	0.0	
140.00		154.5	87.0				35.7	65.9	190.2	152.9	0.0	0.0	
141.00		153.8	86.4				35.8	65.9	189.6	152.3	0.0	0.0	
142.00		153.1	85.8				35.8	65.9	189.0	151.7	0.0	0.0	
143.00		152.4	85.3				35.9	65.9	188.3	151.2	0.0	0.0	
144.00		151.7	84.7				36.0	65.9	187.7	150.6	0.0	0.0	
145.00	Appertunance(s)	124.4	84.1	2,363.5	0.0	0.0	1,678.3	36.0	65.9	2,524.0	1,828.4	0.0	0.0
146.00		97.4	83.6				0.0	48.2	97.4	131.8	0.0	0.0	
147.00		97.2	83.0				0.0	48.2	97.2	131.2	0.0	0.0	
148.00		97.0	82.4				0.0	48.2	97.0	130.6	0.0	0.0	
149.00	Bot - Section 6	97.5	81.9				0.0	48.2	97.5	130.1	0.0	0.0	
150.00		98.0	143.4				0.0	48.2	98.0	191.5	0.0	0.0	
151.00		97.8	142.4				0.0	48.2	97.8	190.5	0.0	0.0	
152.00		73.3	141.4				0.0	48.2	73.3	189.5	0.0	0.0	
152.50	Top - Section 5	48.6	70.3				0.0	24.1	48.6	94.4	0.0	0.0	
153.00		72.6	30.3				0.0	24.1	72.6	54.4	0.0	0.0	
154.00		96.6	60.3				0.0	48.2	96.6	108.5	0.0	0.0	
155.00		96.4	59.9				0.0	48.2	96.4	108.1	0.0	0.0	
156.00		96.2	59.5				0.0	48.2	96.2	107.7	0.0	0.0	

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

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Customer: AT&T Mobility

<b>Load Case: 1.2D + 1.6W</b>	<b>110 mph with No Ice</b>				<b>36 Iterations</b>			
Gust Response Factor : 1.10					Wind Importance Factor : 1.00			
Dead Load Factor : 1.20								
Wind Load Factor : 1.60								

157.00		96.0	59.1					0.0	48.2	96.0	107.2	0.0	0.0
158.00		95.7	58.6					0.0	48.2	95.7	106.8	0.0	0.0
159.00		95.5	58.2					0.0	48.2	95.5	106.4	0.0	0.0
160.00		95.3	57.8					0.0	48.2	95.3	106.0	0.0	0.0
161.00		95.1	57.4					0.0	48.2	95.1	105.5	0.0	0.0
162.00		94.8	56.9					0.0	48.2	94.8	105.1	0.0	0.0
163.00		94.6	56.5					0.0	48.2	94.6	104.7	0.0	0.0
164.00		94.4	56.1					0.0	48.2	94.4	104.3	0.0	0.0
165.00		94.2	55.7					0.0	48.2	94.2	103.8	0.0	0.0
166.00		93.9	55.2					0.0	48.2	93.9	103.4	0.0	0.0
167.00	Appertunance(s)	93.7	54.8	4,772.4	0.0	-294.5	3,605.8	0.0	48.2	4,866.1	3,708.8	0.0	0.0
168.00		93.4	54.4					0.0	36.1	93.4	90.5	0.0	0.0
169.00		93.2	54.0					0.0	36.1	93.2	90.1	0.0	0.0
170.00		93.0	53.5					0.0	36.1	93.0	89.7	0.0	0.0
171.00		92.7	53.1					0.0	36.1	92.7	89.2	0.0	0.0
172.00		92.5	52.7					0.0	36.1	92.5	88.8	0.0	0.0
173.00		92.2	52.3					0.0	36.1	92.2	88.4	0.0	0.0
174.00		111.1	51.8					0.0	36.1	111.1	88.0	0.0	0.0
175.00	Appertunance(s)	101.2	51.4	633.4	0.0	0.0	95.0	26.2	36.1	760.7	182.6	0.0	0.0
176.00		72.1	51.0					0.0	30.2	72.1	81.2	0.0	0.0
177.00		71.8	50.6					0.0	30.2	71.8	80.8	0.0	0.0
178.00		71.5	50.1					0.0	30.2	71.5	80.4	0.0	0.0
179.00		71.2	49.7					0.0	30.2	71.2	79.9	0.0	0.0
180.00		70.9	49.3					0.0	30.2	70.9	79.5	0.0	0.0
181.00		70.6	48.9					0.0	30.2	70.6	79.1	0.0	0.0
182.00		70.3	48.4					0.0	30.2	70.3	78.7	0.0	0.0
183.00	Appertunance(s)	35.1	48.0	4,770.4	0.0	1,410.8	2,877.8	0.0	30.2	4,805.5	2,956.1	0.0	0.0
									<b>Totals:</b>	<b>46,263.5</b>	<b>68,337.8</b>	<b>0.00</b>	<b>0.00</b>

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

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Customer: AT&T Mobility

**Load Case: 1.2D + 1.6W**

110 mph with No Ice

36 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

**Calculated Forces**

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-68.31	-46.25	0.00	-5,680.74	0.00	5,680.74	4,364.17	2,182.08	8,607.44	4,310.12	0.00	0.00	0.995
1.00	-67.88	-46.22	0.00	-5,634.49	0.00	5,634.49	4,348.30	2,174.15	8,544.66	4,278.68	0.01	-0.05	0.993
2.00	-67.45	-46.18	0.00	-5,588.28	0.00	5,588.28	4,332.44	2,166.22	8,482.10	4,247.36	0.02	-0.11	0.990
3.00	-67.01	-46.15	0.00	-5,542.10	0.00	5,542.10	4,316.57	2,158.29	8,419.78	4,216.15	0.05	-0.16	0.988
4.00	-66.58	-46.11	0.00	-5,495.95	0.00	5,495.95	4,300.71	2,150.36	8,357.68	4,185.05	0.09	-0.22	0.986
5.00	-66.15	-46.07	0.00	-5,449.84	0.00	5,449.84	4,284.85	2,142.42	8,295.82	4,154.08	0.14	-0.27	0.984
6.00	-65.64	-46.01	0.00	-5,403.77	0.00	5,403.77	4,268.98	2,134.49	8,234.19	4,123.21	0.21	-0.32	0.982
7.00	-65.13	-45.96	0.00	-5,357.75	0.00	5,357.75	4,253.12	2,126.56	8,172.78	4,092.46	0.28	-0.38	0.980
8.00	-64.62	-45.90	0.00	-5,311.80	0.00	5,311.80	4,237.26	2,118.63	8,111.60	4,061.83	0.36	-0.43	0.977
9.00	-64.11	-45.85	0.00	-5,265.89	0.00	5,265.89	4,221.39	2,110.70	8,050.66	4,031.31	0.46	-0.49	0.975
10.00	-63.61	-45.79	0.00	-5,220.05	0.00	5,220.05	4,205.53	2,102.76	7,989.95	4,000.91	0.57	-0.54	0.973
11.00	-63.10	-45.73	0.00	-5,174.26	0.00	5,174.26	4,189.66	2,094.83	7,929.46	3,970.62	0.69	-0.59	0.970
12.00	-62.60	-45.67	0.00	-5,128.53	0.00	5,128.53	4,173.80	2,086.90	7,869.20	3,940.45	0.82	-0.65	0.968
13.00	-62.09	-45.61	0.00	-5,082.86	0.00	5,082.86	4,157.94	2,078.97	7,809.18	3,910.39	0.96	-0.70	0.965
14.00	-61.59	-45.55	0.00	-5,037.25	0.00	5,037.25	4,142.07	2,071.04	7,749.38	3,880.45	1.12	-0.76	0.963
15.00	-61.09	-45.49	0.00	-4,991.69	0.00	4,991.69	4,126.21	2,063.10	7,689.82	3,850.62	1.28	-0.81	0.960
16.00	-60.59	-45.43	0.00	-4,946.20	0.00	4,946.20	4,110.34	2,055.17	7,630.48	3,820.91	1.46	-0.87	0.957
17.00	-60.09	-45.37	0.00	-4,900.77	0.00	4,900.77	4,094.48	2,047.24	7,571.37	3,791.31	1.65	-0.92	0.955
18.00	-59.60	-45.31	0.00	-4,855.40	0.00	4,855.40	4,078.62	2,039.31	7,512.50	3,761.83	1.84	-0.98	0.952
19.00	-59.10	-45.25	0.00	-4,810.09	0.00	4,810.09	4,062.75	2,031.38	7,453.85	3,732.47	2.06	-1.03	0.949
20.00	-58.61	-45.18	0.00	-4,764.84	0.00	4,764.84	4,046.89	2,023.44	7,395.44	3,703.21	2.28	-1.09	0.946
21.00	-58.11	-45.12	0.00	-4,719.66	0.00	4,719.66	4,031.02	2,015.51	7,337.25	3,674.08	2.51	-1.14	0.944
22.00	-57.63	-45.07	0.00	-4,674.54	0.00	4,674.54	4,015.16	2,007.58	7,279.29	3,645.06	2.76	-1.20	0.941
22.50	-57.39	-45.04	0.00	-4,652.01	0.00	4,652.01	4,007.23	2,003.61	7,250.40	3,630.59	2.88	-1.22	0.939
23.00	-57.13	-44.99	0.00	-4,629.49	0.00	4,629.49	3,999.30	1,999.65	7,221.56	3,616.15	3.01	-1.25	0.938
24.00	-56.64	-44.93	0.00	-4,584.50	0.00	4,584.50	3,983.43	1,991.72	7,164.07	3,587.36	3.28	-1.31	0.935
25.00	-56.15	-44.86	0.00	-4,539.57	0.00	4,539.57	3,967.57	1,983.78	7,106.80	3,558.68	3.56	-1.36	0.932
26.00	-55.67	-44.79	0.00	-4,494.71	0.00	4,494.71	3,951.70	1,975.85	7,049.76	3,530.12	3.86	-1.42	0.929
27.00	-55.18	-44.73	0.00	-4,449.92	0.00	4,449.92	3,935.84	1,967.92	6,992.95	3,501.67	4.16	-1.47	0.925
28.00	-54.71	-44.67	0.00	-4,405.20	0.00	4,405.20	3,919.98	1,959.99	6,936.37	3,473.34	4.47	-1.53	0.922
28.50	-54.47	-44.64	0.00	-4,382.86	0.00	4,382.86	3,912.04	1,956.02	6,908.17	3,459.22	4.64	-1.56	0.921
29.00	-54.07	-44.58	0.00	-4,360.54	0.00	4,360.54	3,904.11	1,952.06	6,880.03	3,445.13	4.80	-1.58	0.909
30.00	-53.31	-44.50	0.00	-4,315.96	0.00	4,315.96	3,888.25	1,944.12	6,823.91	3,417.03	5.14	-1.64	0.905
31.00	-52.54	-44.42	0.00	-4,271.46	0.00	4,271.46	3,872.38	1,936.19	6,768.02	3,389.04	5.49	-1.69	0.902
32.00	-51.78	-44.33	0.00	-4,227.04	0.00	4,227.04	3,856.52	1,928.26	6,712.36	3,361.17	5.85	-1.75	0.898
33.00	-51.02	-44.25	0.00	-4,182.71	0.00	4,182.71	3,840.66	1,920.33	6,656.93	3,333.41	6.22	-1.80	0.895
34.00	-50.27	-44.16	0.00	-4,138.47	0.00	4,138.47	3,824.79	1,912.40	6,601.73	3,305.77	6.60	-1.86	0.891
35.00	-49.51	-44.07	0.00	-4,094.31	0.00	4,094.31	3,809.62	1,909.81	6,546.12	3,277.16	7.00	-1.91	0.864
36.00	-49.04	-43.98	0.00	-4,050.24	0.00	4,050.24	3,883.76	1,941.88	6,808.07	3,409.09	7.41	-1.97	0.861
37.00	-48.56	-43.90	0.00	-4,006.26	0.00	4,006.26	3,867.90	1,933.95	6,752.24	3,381.14	7.82	-2.02	0.857
38.00	-48.09	-43.81	0.00	-3,962.36	0.00	3,962.36	3,852.03	1,926.02	6,696.65	3,353.30	8.25	-2.07	0.853
39.00	-47.61	-43.72	0.00	-3,918.55	0.00	3,918.55	3,836.17	1,918.08	6,641.29	3,325.58	8.69	-2.12	0.850
40.00	-47.14	-43.63	0.00	-3,874.83	0.00	3,874.83	3,820.30	1,910.15	6,586.15	3,297.97	9.14	-2.18	0.846
41.00	-46.67	-43.54	0.00	-3,831.20	0.00	3,831.20	3,804.44	1,902.22	6,531.25	3,270.48	9.61	-2.23	0.842
42.00	-46.20	-43.45	0.00	-3,787.67	0.00	3,787.67	3,788.58	1,894.29	6,476.57	3,243.10	10.08	-2.28	0.838
43.00	-45.73	-43.35	0.00	-3,744.22	0.00	3,744.22	3,772.71	1,886.36	6,422.13	3,215.84	10.56	-2.33	0.834
43.00	-45.73	-43.35	0.00	-3,744.22	0.00	3,744.22	3,772.71	1,886.36	6,422.13	3,215.84	10.56	-2.33	0.834
44.00	-45.27	-43.26	0.00	-3,700.87	0.00	3,700.87	3,756.85	1,878.42	6,367.91	3,188.69	11.06	-2.38	0.830
45.00	-44.80	-43.16	0.00	-3,657.62	0.00	3,657.62	3,740.98	1,870.49	6,313.93	3,161.66	11.56	-2.44	0.826
46.00	-44.34	-43.06	0.00	-3,614.46	0.00	3,614.46	3,725.12	1,862.56	6,260.17	3,134.74	12.08	-2.49	0.822

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:55:19 PM

Customer: AT&T Mobility

Load Case: 1.2D + 1.6W

110 mph with No Ice

36 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

47.00	-43.88	-42.96	0.00	-3,571.40	0.00	3,571.40	3,709.26	1,854.63	6,206.65	3,107.94	12.60	-2.54	0.818
48.00	-43.42	-42.86	0.00	-3,528.44	0.00	3,528.44	3,693.39	1,846.70	6,153.35	3,081.25	13.14	-2.59	0.814
49.00	-42.96	-42.76	0.00	-3,485.58	0.00	3,485.58	3,677.53	1,838.76	6,100.29	3,054.68	13.69	-2.64	0.810
50.00	-42.41	-42.54	0.00	-3,442.82	0.00	3,442.82	3,661.66	1,830.83	6,047.45	3,028.22	14.25	-2.69	0.805
51.00	-41.96	-42.44	0.00	-3,400.28	0.00	3,400.28	3,645.80	1,822.90	5,994.84	3,001.88	14.82	-2.75	0.801
52.00	-41.50	-42.33	0.00	-3,357.84	0.00	3,357.84	3,629.94	1,814.97	5,942.47	2,975.65	15.40	-2.80	0.797
53.00	-41.05	-42.23	0.00	-3,315.51	0.00	3,315.51	3,614.07	1,807.04	5,890.32	2,949.54	15.99	-2.85	0.792
54.00	-40.60	-42.09	0.00	-3,273.28	0.00	3,273.28	3,598.21	1,799.10	5,838.41	2,923.54	16.59	-2.90	0.788
55.00	-40.15	-41.90	0.00	-3,231.19	0.00	3,231.19	3,582.34	1,791.17	5,786.72	2,897.66	17.21	-2.95	0.783
56.00	-39.71	-41.70	0.00	-3,189.29	0.00	3,189.29	3,566.48	1,783.24	5,735.26	2,871.89	17.83	-3.00	0.779
57.00	-39.26	-41.50	0.00	-3,147.59	0.00	3,147.59	3,550.62	1,775.31	5,684.03	2,846.24	18.47	-3.05	0.774
58.00	-38.82	-41.30	0.00	-3,106.09	0.00	3,106.09	3,534.75	1,767.38	5,633.04	2,820.71	19.11	-3.11	0.769
59.00	-38.19	-41.09	0.00	-3,064.78	0.00	3,064.78	3,518.89	1,759.44	5,582.27	2,795.28	19.77	-3.16	0.757
60.00	-37.56	-40.87	0.00	-3,023.70	0.00	3,023.70	3,503.02	1,751.51	5,531.73	2,769.98	20.43	-3.21	0.752
61.00	-36.93	-40.66	0.00	-2,982.82	0.00	2,982.82	3,487.16	1,743.58	5,481.43	2,744.79	21.11	-3.26	0.747
62.00	-36.31	-40.44	0.00	-2,942.17	0.00	2,942.17	3,471.30	1,735.65	5,431.35	2,719.71	21.80	-3.31	0.742
63.00	-35.69	-40.26	0.00	-2,901.73	0.00	2,901.73	3,455.43	1,727.72	5,381.50	2,694.75	22.50	-3.36	0.737
63.50	-35.38	-40.15	0.00	-2,881.60	0.00	2,881.60	3,158.12	1,579.06	5,037.43	2,522.46	22.85	-3.38	0.724
64.00	-35.19	-40.01	0.00	-2,861.53	0.00	2,861.53	3,152.80	1,576.40	5,017.53	2,512.49	23.21	-3.41	0.721
65.00	-34.81	-39.81	0.00	-2,821.52	0.00	2,821.52	3,142.13	1,571.07	4,977.80	2,492.60	23.93	-3.47	0.715
66.00	-34.43	-39.61	0.00	-2,781.71	0.00	2,781.71	3,131.44	1,565.72	4,938.17	2,472.75	24.66	-3.52	0.709
67.00	-34.06	-39.40	0.00	-2,742.10	0.00	2,742.10	3,120.71	1,560.35	4,898.65	2,452.96	25.40	-3.58	0.703
68.00	-33.68	-39.20	0.00	-2,702.70	0.00	2,702.70	3,109.92	1,554.96	4,859.19	2,433.21	26.16	-3.64	0.697
69.00	-33.31	-38.99	0.00	-2,663.50	0.00	2,663.50	3,095.65	1,547.82	4,814.46	2,410.81	26.93	-3.69	0.692
70.00	-32.94	-38.79	0.00	-2,624.51	0.00	2,624.51	3,081.37	1,540.68	4,769.94	2,388.51	27.71	-3.75	0.686
71.00	-32.57	-38.58	0.00	-2,585.73	0.00	2,585.73	3,067.09	1,533.55	4,725.62	2,366.32	28.50	-3.81	0.681
72.00	-32.20	-38.37	0.00	-2,547.15	0.00	2,547.15	3,052.81	1,526.41	4,681.51	2,344.23	29.30	-3.86	0.676
73.00	-31.84	-38.16	0.00	-2,508.78	0.00	2,508.78	3,038.54	1,519.27	4,637.61	2,322.25	30.12	-3.92	0.670
74.00	-31.47	-37.95	0.00	-2,470.61	0.00	2,470.61	3,024.26	1,512.13	4,593.91	2,300.37	30.95	-3.98	0.665
75.00	-31.11	-37.74	0.00	-2,432.66	0.00	2,432.66	3,009.98	1,504.99	4,550.42	2,278.59	31.78	-4.03	0.659
76.00	-30.74	-37.53	0.00	-2,394.92	0.00	2,394.92	2,995.70	1,497.85	4,507.14	2,256.92	32.63	-4.09	0.654
77.00	-30.38	-37.32	0.00	-2,357.38	0.00	2,357.38	2,981.43	1,490.71	4,464.06	2,235.35	33.50	-4.14	0.648
78.00	-30.02	-37.11	0.00	-2,320.06	0.00	2,320.06	2,967.15	1,483.57	4,421.19	2,213.88	34.37	-4.20	0.642
79.00	-29.67	-36.90	0.00	-2,282.95	0.00	2,282.95	2,952.87	1,476.44	4,378.53	2,192.52	35.26	-4.25	0.637
80.00	-29.31	-36.68	0.00	-2,246.06	0.00	2,246.06	2,938.59	1,469.30	4,336.07	2,171.26	36.15	-4.31	0.631
81.00	-28.95	-36.47	0.00	-2,209.37	0.00	2,209.37	2,924.32	1,462.16	4,293.83	2,150.10	37.06	-4.36	0.625
82.00	-28.60	-36.26	0.00	-2,172.90	0.00	2,172.90	2,910.04	1,455.02	4,251.78	2,129.05	37.98	-4.42	0.619
83.00	-28.25	-36.04	0.00	-2,136.65	0.00	2,136.65	2,895.76	1,447.88	4,209.95	2,108.10	38.91	-4.47	0.613
84.00	-27.90	-35.83	0.00	-2,100.61	0.00	2,100.61	2,881.48	1,440.74	4,168.32	2,087.26	39.85	-4.52	0.607
85.00	-27.55	-35.61	0.00	-2,064.78	0.00	2,064.78	2,867.21	1,433.60	4,126.90	2,066.52	40.80	-4.58	0.601
86.00	-27.20	-35.39	0.00	-2,029.17	0.00	2,029.17	2,852.93	1,426.46	4,085.69	2,045.88	41.77	-4.63	0.595
87.00	-26.85	-35.18	0.00	-1,993.78	0.00	1,993.78	2,838.65	1,419.33	4,044.68	2,025.35	42.74	-4.68	0.589
88.00	-26.51	-34.96	0.00	-1,958.61	0.00	1,958.61	2,824.37	1,412.19	4,003.88	2,004.91	43.73	-4.74	0.583
89.00	-26.02	-34.72	0.00	-1,923.65	0.00	1,923.65	2,810.09	1,405.05	3,963.28	1,984.59	44.73	-4.79	0.577
90.00	-25.54	-34.49	0.00	-1,888.93	0.00	1,888.93	2,795.82	1,397.91	3,922.90	1,964.36	45.73	-4.84	0.564
91.00	-25.06	-34.25	0.00	-1,854.44	0.00	1,854.44	2,781.54	1,390.77	3,882.72	1,944.24	46.75	-4.89	0.558
92.00	-24.58	-34.02	0.00	-1,820.19	0.00	1,820.19	2,767.26	1,383.63	3,842.74	1,924.23	47.78	-4.94	0.551
93.00	-24.10	-33.78	0.00	-1,786.17	0.00	1,786.17	2,292.76	1,146.38	3,238.31	1,621.56	48.82	-4.99	0.607
94.00	-23.79	-33.56	0.00	-1,752.39	0.00	1,752.39	2,284.25	1,142.13	3,209.75	1,607.26	49.87	-5.04	0.599
95.00	-23.48	-33.34	0.00	-1,718.83	0.00	1,718.83	2,275.71	1,137.86	3,181.27	1,593.00	50.93	-5.10	0.591
96.00	-23.17	-33.12	0.00	-1,685.49	0.00	1,685.49	2,267.14	1,133.57	3,152.86	1,578.78	52.00	-5.15	0.583
97.00	-22.86	-32.90	0.00	-1,652.38	0.00	1,652.38	2,258.54	1,129.27	3,124.54	1,564.59	53.09	-5.20	0.575
98.00	-22.55	-32.67	0.00	-1,619.48	0.00	1,619.48	2,249.90	1,124.95	3,096.30	1,550.45	54.18	-5.25	0.567
99.00	-22.24	-32.45	0.00	-1,586.81	0.00	1,586.81	2,241.24	1,120.62	3,068.14	1,536.35	55.29	-5.30	0.559
100.00	-21.94	-32.23	0.00	-1,554.36	0.00	1,554.36	2,232.54	1,116.27	3,040.06	1,522.29	56.40	-5.36	0.550
101.00	-21.63	-32.00	0.00	-1,522.13	0.00	1,522.13	2,223.81	1,111.90	3,012.06	1,508.27	57.53	-5.41	0.542
102.00	-21.33	-31.78	0.00	-1,490.13	0.00	1,490.13	2,215.04	1,107.52	2,984.14	1,494.29	58.67	-5.46	0.534

<b>Load Case: 1.2D + 1.6W</b>	<b>110 mph with No Ice</b>	<b>36 Iterations</b>
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

103.00	-21.03	-31.56	0.00	-1,458.35	0.00	1,458.35	2,206.25	1,103.12	2,956.31	1,480.35	59.81	-5.51	0.526
104.00	-20.73	-31.33	0.00	-1,426.80	0.00	1,426.80	2,197.42	1,098.71	2,928.57	1,466.46	60.97	-5.56	0.518
105.00	-20.43	-31.11	0.00	-1,395.46	0.00	1,395.46	2,188.56	1,094.28	2,900.91	1,452.61	62.14	-5.61	0.509
105.00	-20.43	-31.11	0.00	-1,395.46	0.00	1,395.46	2,188.56	1,094.28	2,900.91	1,452.61	62.14	-5.61	0.971
106.00	-20.20	-30.90	0.00	-1,364.36	0.00	1,364.36	2,179.67	1,089.83	2,873.33	1,438.80	63.32	-5.65	0.958
107.00	-19.96	-30.70	0.00	-1,333.46	0.00	1,333.46	2,170.74	1,085.37	2,845.85	1,425.04	64.51	-5.75	0.946
108.00	-19.72	-30.49	0.00	-1,302.76	0.00	1,302.76	2,161.78	1,080.89	2,818.44	1,411.32	65.72	-5.84	0.933
109.00	-19.48	-30.29	0.00	-1,272.27	0.00	1,272.27	2,150.55	1,075.28	2,788.22	1,396.18	66.95	-5.93	0.921
110.00	-19.25	-30.09	0.00	-1,241.98	0.00	1,241.98	2,138.65	1,069.33	2,757.31	1,380.70	68.20	-6.02	0.909
111.00	-19.01	-29.91	0.00	-1,211.89	0.00	1,211.89	2,126.76	1,063.38	2,726.56	1,365.31	69.47	-6.11	0.897
112.00	-18.77	-29.80	0.00	-1,181.98	0.00	1,181.98	2,114.86	1,057.43	2,695.99	1,350.00	70.76	-6.20	0.885
113.00	-18.53	-29.67	0.00	-1,152.18	0.00	1,152.18	2,102.96	1,051.48	2,665.59	1,334.78	72.06	-6.29	0.873
114.00	-18.31	-29.47	0.00	-1,122.51	0.00	1,122.51	2,091.06	1,045.53	2,635.36	1,319.64	73.39	-6.37	0.860
115.00	-18.08	-29.27	0.00	-1,093.04	0.00	1,093.04	2,079.16	1,039.58	2,605.31	1,304.59	74.73	-6.46	0.847
116.00	-17.86	-29.11	0.00	-1,063.77	0.00	1,063.77	2,067.27	1,033.63	2,575.43	1,289.63	76.09	-6.55	0.834
116.50	-17.75	-29.01	0.00	-1,049.21	0.00	1,049.21	2,061.32	1,030.66	2,560.55	1,282.18	76.78	-6.59	0.828
117.00	-17.58	-28.87	0.00	-1,034.70	0.00	1,034.70	2,055.37	1,027.68	2,545.72	1,274.75	77.47	-6.63	0.821
118.00	-17.26	-28.66	0.00	-1,005.83	0.00	1,005.83	2,043.47	1,021.73	2,516.18	1,259.96	78.86	-6.72	0.808
119.00	-16.94	-28.45	0.00	-977.17	0.00	977.17	2,031.57	1,015.79	2,486.81	1,245.26	80.27	-6.80	0.794
120.00	-16.62	-28.24	0.00	-948.72	0.00	948.72	2,019.67	1,009.84	2,457.62	1,230.64	81.70	-6.88	0.780
121.00	-16.31	-28.03	0.00	-920.48	0.00	920.48	1,562.89	781.45	1,930.84	966.86	83.15	-6.96	0.964
122.00	-16.11	-27.83	0.00	-892.45	0.00	892.45	1,556.55	778.28	1,911.74	957.29	84.61	-7.04	0.944
123.00	-15.92	-27.64	0.00	-864.62	0.00	864.62	1,550.18	775.09	1,892.68	947.75	86.10	-7.13	0.924
124.00	-15.72	-27.44	0.00	-836.98	0.00	836.98	1,543.77	771.89	1,873.68	938.23	87.60	-7.23	0.904
125.00	-15.53	-27.25	0.00	-809.54	0.00	809.54	1,537.34	768.67	1,854.73	928.74	89.12	-7.32	0.883
126.00	-12.61	-21.43	0.00	-782.29	0.00	782.29	1,530.87	765.43	1,835.84	919.28	90.66	-7.41	0.860
127.00	-12.44	-21.23	0.00	-760.87	0.00	760.87	1,524.37	762.18	1,817.00	909.85	92.21	-7.49	0.845
128.00	-12.28	-21.03	0.00	-739.64	0.00	739.64	1,517.84	758.92	1,798.22	900.45	93.79	-7.58	0.830
129.00	-12.11	-20.83	0.00	-718.61	0.00	718.61	1,511.27	755.64	1,779.50	891.07	95.38	-7.67	0.815
130.00	-11.95	-20.64	0.00	-697.77	0.00	697.77	1,504.67	752.34	1,760.83	881.72	96.99	-7.75	0.800
131.00	-11.79	-20.44	0.00	-677.14	0.00	677.14	1,498.04	749.02	1,742.22	872.40	98.62	-7.84	0.785
132.00	-11.63	-20.24	0.00	-656.70	0.00	656.70	1,491.38	745.69	1,723.67	863.12	100.26	-7.92	0.769
133.00	-11.48	-20.04	0.00	-636.46	0.00	636.46	1,484.69	742.34	1,705.18	853.86	101.93	-8.00	0.754
134.00	-11.32	-19.84	0.00	-616.42	0.00	616.42	1,477.96	738.98	1,686.75	844.63	103.61	-8.08	0.738
135.00	-11.17	-19.65	0.00	-596.57	0.00	596.57	1,471.20	735.60	1,668.38	835.43	105.30	-8.16	0.722
136.00	-11.01	-19.45	0.00	-576.93	0.00	576.93	1,464.41	732.21	1,650.07	826.26	107.02	-8.24	0.706
137.00	-10.86	-19.25	0.00	-557.48	0.00	557.48	1,457.59	728.80	1,631.83	817.13	108.75	-8.32	0.690
138.00	-10.71	-19.05	0.00	-538.23	0.00	538.23	1,450.74	725.37	1,613.64	808.02	110.49	-8.40	0.674
139.00	-10.57	-18.86	0.00	-519.17	0.00	519.17	1,443.85	721.92	1,595.53	798.95	112.25	-8.47	0.658
140.00	-10.42	-18.66	0.00	-500.32	0.00	500.32	1,436.93	718.47	1,577.47	789.91	114.03	-8.55	0.641
141.00	-10.27	-18.46	0.00	-481.66	0.00	481.66	1,429.98	714.99	1,559.48	780.90	115.82	-8.62	0.625
142.00	-10.13	-18.26	0.00	-463.20	0.00	463.20	1,423.00	711.50	1,541.56	771.93	117.63	-8.69	0.608
143.00	-9.99	-18.07	0.00	-444.93	0.00	444.93	1,415.98	707.99	1,523.71	762.99	119.45	-8.76	0.591
144.00	-9.85	-17.87	0.00	-426.86	0.00	426.86	1,408.93	704.47	1,505.92	754.08	121.28	-8.83	0.574
145.00	-8.41	-15.11	0.00	-408.99	0.00	408.99	1,401.85	700.93	1,488.20	745.20	123.13	-8.90	0.555
146.00	-8.28	-15.00	0.00	-393.89	0.00	393.89	1,394.74	697.37	1,470.54	736.36	124.99	-8.96	0.541
147.00	-8.15	-14.89	0.00	-378.89	0.00	378.89	1,387.60	693.80	1,452.96	727.56	126.87	-9.03	0.527
148.00	-8.02	-14.78	0.00	-364.00	0.00	364.00	1,379.83	689.92	1,434.84	718.48	128.76	-9.09	0.513
149.00	-7.89	-14.67	0.00	-349.22	0.00	349.22	1,370.32	685.16	1,415.01	708.56	130.66	-9.15	0.499
150.00	-7.70	-14.56	0.00	-334.54	0.00	334.54	1,360.80	680.40	1,395.33	698.70	132.58	-9.21	0.485
151.00	-7.51	-14.44	0.00	-319.99	0.00	319.99	1,351.28	675.64	1,375.78	688.91	134.51	-9.27	0.471
152.00	-7.33	-14.34	0.00	-305.55	0.00	305.55	1,341.76	670.88	1,356.37	679.19	136.45	-9.33	0.456
152.50	-7.23	-14.28	0.00	-298.38	0.00	298.38	942.35	471.17	968.66	485.05	137.42	-9.36	0.624
153.00	-7.18	-14.20	0.00	-291.25	0.00	291.25	940.20	470.10	963.05	482.24	138.40	-9.39	0.612
154.00	-7.07	-14.10	0.00	-277.04	0.00	277.04	935.87	467.94	951.84	476.63	140.36	-9.46	0.590
155.00	-6.97	-14.00	0.00	-262.94	0.00	262.94	931.51	465.76	940.66	471.03	142.34	-9.52	0.567
156.00	-6.86	-13.89	0.00	-248.95	0.00	248.95	927.12	463.56	929.51	465.45	144.33	-9.59	0.543



Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:55:19 PM

Customer: AT&T Mobility

**Load Case: 1.2D + 1.6W**

110 mph with No Ice

36 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

157.00	-6.75	-13.78	0.00	-235.06	0.00	235.06	922.70	461.35	918.40	459.88	146.34	-9.65	0.519
158.00	-6.65	-13.68	0.00	-221.27	0.00	221.27	918.25	459.12	907.31	454.33	148.36	-9.71	0.495
159.00	-6.55	-13.57	0.00	-207.59	0.00	207.59	913.76	456.88	896.26	448.80	150.39	-9.77	0.471
160.00	-6.45	-13.47	0.00	-194.02	0.00	194.02	909.24	454.62	885.24	443.28	152.43	-9.83	0.446
161.00	-6.35	-13.36	0.00	-180.55	0.00	180.55	904.69	452.35	874.26	437.78	154.49	-9.88	0.420
162.00	-6.25	-13.26	0.00	-167.19	0.00	167.19	900.11	450.06	863.31	432.30	156.55	-9.93	0.395
163.00	-6.15	-13.15	0.00	-153.93	0.00	153.93	895.50	447.75	852.40	426.83	158.63	-9.98	0.368
164.00	-6.06	-13.04	0.00	-140.78	0.00	140.78	890.85	445.42	841.52	421.39	160.71	-10.02	0.342
165.00	-5.96	-12.94	0.00	-127.74	0.00	127.74	886.17	443.09	830.68	415.96	162.81	-10.06	0.315
166.00	-5.87	-12.83	0.00	-114.80	0.00	114.80	881.46	440.73	819.88	410.55	164.91	-10.10	0.287
167.00	-3.07	-7.39	0.00	-101.97	0.00	101.97	876.72	438.36	809.12	405.16	167.02	-10.14	0.255
168.00	-2.99	-7.28	0.00	-94.59	0.00	94.59	871.94	435.97	798.40	399.79	169.13	-10.17	0.240
169.00	-2.92	-7.18	0.00	-87.30	0.00	87.30	867.13	433.57	787.71	394.44	171.26	-10.20	0.225
170.00	-2.84	-7.07	0.00	-80.13	0.00	80.13	862.29	431.15	777.07	389.11	173.39	-10.23	0.209
171.00	-2.77	-6.97	0.00	-73.06	0.00	73.06	857.42	428.71	766.47	383.80	175.52	-10.26	0.194
172.00	-2.69	-6.86	0.00	-66.09	0.00	66.09	852.52	426.26	755.91	378.52	177.66	-10.28	0.178
173.00	-2.62	-6.75	0.00	-59.23	0.00	59.23	847.58	423.79	745.39	373.25	179.81	-10.31	0.162
174.00	-2.55	-6.63	0.00	-52.48	0.00	52.48	842.61	421.31	734.92	368.01	181.96	-10.33	0.146
175.00	-2.50	-5.85	0.00	-45.85	0.00	45.85	837.61	418.81	724.49	362.78	184.11	-10.35	0.130
176.00	-2.44	-5.76	0.00	-40.00	0.00	40.00	832.58	416.29	714.11	357.59	186.27	-10.37	0.115
177.00	-2.37	-5.68	0.00	-34.23	0.00	34.23	827.51	413.76	703.77	352.41	188.43	-10.38	0.100
178.00	-2.30	-5.60	0.00	-28.55	0.00	28.55	822.42	411.21	693.48	347.26	190.59	-10.39	0.085
179.00	-2.23	-5.51	0.00	-22.96	0.00	22.96	817.29	408.64	683.23	342.12	192.76	-10.41	0.070
180.00	-2.17	-5.43	0.00	-17.44	0.00	17.44	812.13	406.06	673.04	337.02	194.93	-10.42	0.055
181.00	-2.10	-5.34	0.00	-12.02	0.00	12.02	806.93	403.47	662.89	331.94	197.10	-10.42	0.039
182.00	-2.04	-5.26	0.00	-6.67	0.00	6.67	801.71	400.85	652.79	326.88	199.27	-10.43	0.023
183.00	0.00	-4.81	0.00	-1.41	0.00	1.41	796.45	398.23	642.74	321.85	201.44	-10.43	0.005

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:55:20 PM

Customer: AT&T Mobility

**Load Case:** 0.9D + 1.6W

110 mph with No Ice (Reduced DL)

36 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

**Applied Segment Forces Summary**

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		48.4	0.0					0.0	0.0	48.4	0.0	0.0	0.0
1.00		96.6	233.4					0.0	60.1	96.6	293.6	0.0	0.0
2.00		96.3	232.6					0.0	60.1	96.3	292.7	0.0	0.0
3.00		95.9	231.7					0.0	60.1	95.9	291.9	0.0	0.0
4.00		95.6	230.9					0.0	60.1	95.6	291.0	0.0	0.0
5.00		95.2	230.0					0.0	60.1	95.2	290.2	0.0	0.0
6.00		94.9	229.2					0.0	122.6	94.9	351.7	0.0	0.0
7.00		94.5	228.3					0.0	122.6	94.5	350.9	0.0	0.0
8.00		94.2	227.5					0.0	122.6	94.2	350.0	0.0	0.0
9.00		93.8	226.6					0.0	122.6	93.8	349.2	0.0	0.0
10.00		93.5	225.8					0.0	122.6	93.5	348.3	0.0	0.0
11.00		93.1	224.9					0.0	122.6	93.1	347.5	0.0	0.0
12.00		92.8	224.1					0.0	122.6	92.8	346.6	0.0	0.0
13.00		92.4	223.2					0.0	122.6	92.4	345.8	0.0	0.0
14.00		92.1	222.4					0.0	122.6	92.1	344.9	0.0	0.0
15.00		91.7	221.5					0.0	122.6	91.7	344.1	0.0	0.0
16.00		91.4	220.7					0.0	122.6	91.4	343.2	0.0	0.0
17.00		91.0	219.8					0.0	122.6	91.0	342.4	0.0	0.0
18.00		90.7	219.0					0.0	122.6	90.7	341.5	0.0	0.0
19.00		90.3	218.1					0.0	122.6	90.3	340.7	0.0	0.0
20.00		90.0	217.3					0.0	122.6	90.0	339.8	0.0	0.0
21.00		89.6	216.4					0.0	122.6	89.6	339.0	0.0	0.0
22.00		89.6	216.4					0.0	122.6	89.6	339.0	0.0	0.0
22.50	Reinf. Top Reinf	44.6	107.5					0.0	61.3	44.6	168.8	0.0	0.0
23.00		66.6	107.3					0.0	61.3	66.6	168.5	0.0	0.0
24.00		88.6	213.9					0.0	122.6	88.6	336.4	0.0	0.0
25.00		88.2	213.0					0.0	122.6	88.2	335.6	0.0	0.0
26.00		87.9	212.2					0.0	122.6	87.9	334.7	0.0	0.0
27.00		87.5	211.3					0.0	122.6	87.5	333.9	0.0	0.0
28.00		65.5	210.5					0.0	122.6	65.5	333.0	0.0	0.0
28.50	Bot - Section 2	44.0	104.9					0.0	61.3	44.0	166.2	0.0	0.0
29.00		66.6	211.9					0.0	61.3	66.6	273.1	0.0	0.0
30.00		88.7	422.4					0.0	122.6	88.7	545.0	0.0	0.0
31.00		89.0	420.7					0.0	122.6	89.0	543.3	0.0	0.0
32.00		89.5	419.0					0.0	122.6	89.5	541.6	0.0	0.0
33.00		89.9	417.3					0.0	122.6	89.9	539.9	0.0	0.0
34.00		90.3	415.6					0.0	122.6	90.3	538.2	0.0	0.0
35.00	Top - Section 1	90.7	413.9					0.0	122.6	90.7	536.5	0.0	0.0
36.00		91.1	208.5					0.0	122.6	91.1	331.1	0.0	0.0
37.00		91.4	207.7					0.0	122.6	91.4	330.3	0.0	0.0
38.00		91.8	206.8					0.0	122.6	91.8	329.4	0.0	0.0
39.00		92.1	206.0					0.0	122.6	92.1	328.6	0.0	0.0
40.00		92.4	205.1					0.0	122.6	92.4	327.7	0.0	0.0
41.00		92.6	204.3					0.0	122.6	92.6	326.9	0.0	0.0
42.00		92.9	203.4					0.0	122.6	92.9	326.0	0.0	0.0
43.00	Reinf. Top Reinf	93.1	202.6					0.0	122.6	93.1	325.2	0.0	0.0
44.00		93.3	201.7					0.0	122.6	93.3	324.3	0.0	0.0
45.00		93.6	200.9					0.0	122.6	93.6	323.5	0.0	0.0

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:55:33 PM

Customer: AT&T Mobility

<b>Load Case: 0.9D + 1.6W</b>	<b>110 mph with No Ice (Reduced DL)</b>						<b>36 Iterations</b>			
Gust Response Factor : 1.10							Wind Importance Factor : 1.00			
Dead Load Factor : 0.90										
Wind Load Factor : 1.60										

46.00		93.7	200.0					0.0	122.6	93.7	322.6	0.0	0.0
47.00		93.9	199.2					0.0	122.6	93.9	321.8	0.0	0.0
48.00		94.1	198.3					0.0	122.6	94.1	320.9	0.0	0.0
49.00		94.2	197.5					0.0	122.6	94.2	320.1	0.0	0.0
50.00	Appertunance(s)	94.4	196.6	107.5	0.0	0.0	68.0	0.0	122.6	201.9	387.2	0.0	0.0
51.00		94.5	195.8					0.0	122.6	94.5	318.4	0.0	0.0
52.00		94.6	194.9					0.0	122.6	94.6	317.5	0.0	0.0
53.00		94.7	194.1					0.0	122.6	94.7	316.7	0.0	0.0
54.00		135.0	193.2					0.0	122.6	135.0	315.8	0.0	0.0
55.00		175.2	192.4					35.1	122.6	210.4	315.0	0.0	0.0
56.00		175.4	191.5					35.3	122.6	210.7	314.1	0.0	0.0
57.00		175.5	190.7					35.5	122.6	211.0	313.3	0.0	0.0
58.00	Bot - Section 3	177.3	189.8					35.7	122.6	212.9	312.4	0.0	0.0
59.00		179.0	333.9					35.8	122.6	214.8	456.5	0.0	0.0
60.00		179.1	332.4					36.0	122.6	215.1	455.0	0.0	0.0
61.00		179.2	330.9					36.2	122.6	215.3	453.5	0.0	0.0
62.00		179.2	329.5					36.3	122.6	215.5	452.0	0.0	0.0
63.00		134.4	328.0					36.5	122.6	170.9	450.5	0.0	0.0
63.50	Top - Section 2	89.6	163.4					18.3	61.3	107.9	224.7	0.0	0.0
64.00		134.4	70.8					18.4	61.3	152.8	132.1	0.0	0.0
65.00		179.2	141.1					36.8	122.6	216.1	263.7	0.0	0.0
66.00		179.2	140.5					37.0	122.6	216.2	263.0	0.0	0.0
67.00		179.2	139.8					37.2	122.6	216.3	262.4	0.0	0.0
68.00		179.1	139.2					37.3	122.6	216.4	261.8	0.0	0.0
69.00		179.0	138.6					37.5	122.6	216.5	261.1	0.0	0.0
70.00		178.9	137.9					37.6	122.6	216.6	260.5	0.0	0.0
71.00		178.8	137.3					37.8	122.6	216.6	259.8	0.0	0.0
72.00		178.7	136.6					37.9	122.6	216.7	259.2	0.0	0.0
73.00		178.6	136.0					38.1	122.6	216.7	258.6	0.0	0.0
74.00		178.5	135.4					38.2	122.6	216.7	257.9	0.0	0.0
75.00		178.3	134.7					38.4	122.6	216.7	257.3	0.0	0.0
76.00		178.2	134.1					38.5	122.6	216.7	256.7	0.0	0.0
77.00		178.0	133.5					38.7	122.6	216.7	256.0	0.0	0.0
78.00		177.8	132.8					38.8	122.6	216.6	255.4	0.0	0.0
79.00		177.6	132.2					39.0	122.6	216.6	254.7	0.0	0.0
80.00		177.4	131.5					39.1	122.6	216.5	254.1	0.0	0.0
81.00		177.2	130.9					39.3	122.6	216.4	253.5	0.0	0.0
82.00		176.9	130.3					39.4	122.6	216.3	252.8	0.0	0.0
83.00		176.7	129.6					39.5	122.6	216.2	252.2	0.0	0.0
84.00		176.4	129.0					39.7	122.6	216.1	251.6	0.0	0.0
85.00		176.1	128.4					39.8	122.6	215.9	250.9	0.0	0.0
86.00		175.9	127.7					39.9	122.6	215.8	250.3	0.0	0.0
87.00		175.6	127.1					40.1	122.6	215.6	249.6	0.0	0.0
88.00	Bot - Section 4	176.8	126.4					40.2	122.6	217.0	249.0	0.0	0.0
89.00		178.1	232.7					40.3	122.6	218.4	355.3	0.0	0.0
90.00		177.8	231.6					40.5	122.6	218.2	354.1	0.0	0.0
91.00		177.5	230.4					40.6	122.6	218.0	353.0	0.0	0.0
92.00		177.1	229.2					40.7	122.6	217.8	351.8	0.0	0.0
93.00	Top - Section 3	176.8	228.1					40.8	122.6	217.6	350.6	0.0	0.0
94.00		176.4	104.3					41.0	122.6	217.4	226.8	0.0	0.0
95.00		176.1	103.7					41.1	122.6	217.2	226.3	0.0	0.0
96.00		175.7	103.2					41.2	122.6	216.9	225.8	0.0	0.0
97.00		175.3	102.7					41.3	122.6	216.7	225.2	0.0	0.0
98.00		174.9	102.1					41.5	122.6	216.4	224.7	0.0	0.0
99.00		174.5	101.6					41.6	122.6	216.1	224.2	0.0	0.0
100.00		174.1	101.1					41.7	122.6	215.8	223.6	0.0	0.0
101.00		173.7	100.6					41.8	122.6	215.5	223.1	0.0	0.0

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:55:33 PM

Customer: AT&T Mobility

<b>Load Case: 0.9D + 1.6W</b>	<b>110 mph with No Ice (Reduced DL)</b>						<b>36 Iterations</b>			
Gust Response Factor : 1.10							Wind Importance Factor : 1.00			
Dead Load Factor : 0.90										
Wind Load Factor : 1.60										

102.00		173.3	100.0				41.9	122.6	215.2	222.6	0.0	0.0	
103.00		172.8	99.5				42.1	122.6	214.9	222.0	0.0	0.0	
104.00		172.4	99.0				42.2	122.6	214.6	221.5	0.0	0.0	
105.00	Reinf. Top	172.0	98.4				42.3	122.6	214.2	221.0	0.0	0.0	
106.00		171.5	97.9				42.4	62.4	213.9	160.3	0.0	0.0	
107.00		171.0	97.4				42.5	62.4	213.6	159.8	0.0	0.0	
108.00		170.6	96.8				42.6	62.4	213.2	159.3	0.0	0.0	
109.00		170.1	96.3				42.7	62.4	212.8	158.7	0.0	0.0	
110.00		169.6	95.8				42.9	62.4	212.4	158.2	0.0	0.0	
111.00		130.4	95.2				40.9	62.4	171.3	157.7	0.0	0.0	
112.00		91.3	94.7				0.0	62.4	91.3	157.1	0.0	0.0	
113.00		129.5	94.2				0.0	62.4	129.5	156.6	0.0	0.0	
114.00		167.6	93.6				33.6	62.4	201.2	156.1	0.0	0.0	
115.00		167.0	93.1				33.7	62.4	200.8	155.6	0.0	0.0	
116.00		125.0	92.6				33.8	62.4	158.8	155.0	0.0	0.0	
116.50	Bot - Section 5	83.8	46.1				16.9	31.2	100.7	77.3	0.0	0.0	
117.00		126.4	83.4				17.0	31.2	143.4	114.6	0.0	0.0	
118.00		168.1	166.1				34.0	62.4	202.1	228.5	0.0	0.0	
119.00		167.6	165.1				34.1	62.4	201.6	227.6	0.0	0.0	
120.00		167.0	164.2				34.1	62.4	201.2	226.6	0.0	0.0	
121.00	Top - Section 4	166.5	163.2				34.2	62.4	200.7	225.7	0.0	0.0	
122.00		165.9	72.9				34.3	61.6	200.2	134.4	0.0	0.0	
123.00		165.3	72.5				34.4	61.6	199.7	134.0	0.0	0.0	
124.00		164.7	72.0				34.5	61.6	199.2	133.6	0.0	0.0	
125.00		164.1	71.6				34.5	61.6	198.7	133.2	0.0	0.0	
126.00	Appertunance(s)	163.5	71.2	5,222.6	0.0	-769.2	2,576.3	34.6	61.6	5,420.8	2,709.1	0.0	0.0
127.00		162.9	70.8				34.7	49.4	197.6	120.2	0.0	0.0	
128.00		162.3	70.3				34.8	49.4	197.1	119.8	0.0	0.0	
129.00		161.7	69.9				34.9	49.4	196.6	119.3	0.0	0.0	
130.00		161.1	69.5				34.9	49.4	196.0	118.9	0.0	0.0	
131.00		160.5	69.1				35.0	49.4	195.5	118.5	0.0	0.0	
132.00		159.8	68.6				35.1	49.4	194.9	118.1	0.0	0.0	
133.00		159.2	68.2				35.2	49.4	194.3	117.6	0.0	0.0	
134.00		158.5	67.8				35.2	49.4	193.8	117.2	0.0	0.0	
135.00		157.9	67.4				35.3	49.4	193.2	116.8	0.0	0.0	
136.00		157.2	66.9				35.4	49.4	192.6	116.3	0.0	0.0	
137.00		156.6	66.5				35.5	49.4	192.0	115.9	0.0	0.0	
138.00		155.9	66.1				35.5	49.4	191.4	115.5	0.0	0.0	
139.00		155.2	65.7				35.6	49.4	190.8	115.1	0.0	0.0	
140.00		154.5	65.2				35.7	49.4	190.2	114.6	0.0	0.0	
141.00		153.8	64.8				35.8	49.4	189.6	114.2	0.0	0.0	
142.00		153.1	64.4				35.8	49.4	189.0	113.8	0.0	0.0	
143.00		152.4	64.0				35.9	49.4	188.3	113.4	0.0	0.0	
144.00		151.7	63.5				36.0	49.4	187.7	112.9	0.0	0.0	
145.00	Appertunance(s)	116.5	63.1	2,363.5	0.0	0.0	1,258.7	36.0	49.4	2,516.1	1,371.3	0.0	0.0
146.00		81.4	62.7				0.0	36.1	81.4	98.8	0.0	0.0	
147.00		81.0	62.3				0.0	36.1	81.0	98.4	0.0	0.0	
148.00		80.6	61.8				0.0	36.1	80.6	98.0	0.0	0.0	
149.00	Bot - Section 6	80.8	61.4				0.0	36.1	80.8	97.5	0.0	0.0	
150.00		81.0	107.5				0.0	36.1	81.0	143.6	0.0	0.0	
151.00		80.6	106.8				0.0	36.1	80.6	142.9	0.0	0.0	
152.00		60.2	106.0				0.0	36.1	60.2	142.2	0.0	0.0	
152.50	Top - Section 5	40.0	52.7				0.0	18.1	40.0	70.8	0.0	0.0	
153.00		59.8	22.7				0.0	18.1	59.8	40.8	0.0	0.0	
154.00		79.4	45.3				0.0	36.1	79.4	81.4	0.0	0.0	
155.00		79.0	44.9				0.0	36.1	79.0	81.1	0.0	0.0	
156.00		78.6	44.6				0.0	36.1	78.6	80.8	0.0	0.0	

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:55:33 PM

Customer: AT&T Mobility

**Load Case:** 0.9D + 1.6W

110 mph with No Ice (Reduced DL)

36 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

157.00		78.2	44.3				0.0	36.1	78.2	80.4	0.0	0.0	
158.00		77.7	44.0				0.0	36.1	77.7	80.1	0.0	0.0	
159.00		77.3	43.7				0.0	36.1	77.3	79.8	0.0	0.0	
160.00		76.9	43.3				0.0	36.1	76.9	79.5	0.0	0.0	
161.00		76.5	43.0				0.0	36.1	76.5	79.2	0.0	0.0	
162.00		76.0	42.7				0.0	36.1	76.0	78.8	0.0	0.0	
163.00		75.6	42.4				0.0	36.1	75.6	78.5	0.0	0.0	
164.00		75.2	42.1				0.0	36.1	75.2	78.2	0.0	0.0	
165.00		74.7	41.8				0.0	36.1	74.7	77.9	0.0	0.0	
166.00		74.3	41.4				0.0	36.1	74.3	77.6	0.0	0.0	
167.00	Appertunance(s)	73.9	41.1	4,772.4	0.0	-294.5	2,704.3	0.0	36.1	4,846.3	2,781.6	0.0	0.0
168.00		73.4	40.8				0.0	27.1	73.4	67.9	0.0	0.0	
169.00		73.0	40.5				0.0	27.1	73.0	67.6	0.0	0.0	
170.00		72.5	40.2				0.0	27.1	72.5	67.3	0.0	0.0	
171.00		72.1	39.8				0.0	27.1	72.1	66.9	0.0	0.0	
172.00		71.6	39.5				0.0	27.1	71.6	66.6	0.0	0.0	
173.00		71.1	39.2				0.0	27.1	71.1	66.3	0.0	0.0	
174.00		100.5	38.9				0.0	27.1	100.5	66.0	0.0	0.0	
175.00	Appertunance(s)	100.0	38.6	633.4	0.0	0.0	71.3	26.2	27.1	759.6	136.9	0.0	0.0
176.00		69.8	38.2				0.0	22.7	69.8	60.9	0.0	0.0	
177.00		69.3	37.9				0.0	22.7	69.3	60.6	0.0	0.0	
178.00		68.8	37.6				0.0	22.7	68.8	60.3	0.0	0.0	
179.00		68.4	37.3				0.0	22.7	68.4	60.0	0.0	0.0	
180.00		67.9	37.0				0.0	22.7	67.9	59.6	0.0	0.0	
181.00		67.4	36.7				0.0	22.7	67.4	59.3	0.0	0.0	
182.00		66.9	36.3				0.0	22.7	66.9	59.0	0.0	0.0	
183.00	Appertunance(s)	33.3	36.0	4,770.4	0.0	1,410.8	2,158.4	0.0	22.7	4,803.8	2,217.1	0.0	0.0
									Totals:	44,522.8	51,253.3	0.00	0.00

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:55:33 PM

Customer: AT&T Mobility

**Load Case:** 0.9D + 1.6W

110 mph with No Ice (Reduced DL)

36 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

**Calculated Forces**

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-51.23	-44.50	0.00	-5,461.36	0.00	5,461.36	4,364.17	2,182.08	8,607.44	4,310.12	0.00	0.00	0.954
1.00	-50.90	-44.45	0.00	-5,416.86	0.00	5,416.86	4,348.30	2,174.15	8,544.66	4,278.68	0.01	-0.05	0.952
2.00	-50.57	-44.40	0.00	-5,372.42	0.00	5,372.42	4,332.44	2,166.22	8,482.10	4,247.36	0.02	-0.10	0.950
3.00	-50.23	-44.35	0.00	-5,328.02	0.00	5,328.02	4,316.57	2,158.29	8,419.78	4,216.15	0.05	-0.16	0.948
4.00	-49.90	-44.29	0.00	-5,283.68	0.00	5,283.68	4,300.71	2,150.36	8,357.68	4,185.05	0.09	-0.21	0.946
5.00	-49.57	-44.24	0.00	-5,239.38	0.00	5,239.38	4,284.85	2,142.42	8,295.82	4,154.08	0.14	-0.26	0.943
6.00	-49.18	-44.19	0.00	-5,195.14	0.00	5,195.14	4,268.98	2,134.49	8,234.19	4,123.21	0.20	-0.31	0.941
7.00	-48.79	-44.14	0.00	-5,150.95	0.00	5,150.95	4,253.12	2,126.56	8,172.78	4,092.46	0.27	-0.36	0.939
8.00	-48.40	-44.09	0.00	-5,106.81	0.00	5,106.81	4,237.26	2,118.63	8,111.60	4,061.83	0.35	-0.41	0.937
9.00	-48.01	-44.03	0.00	-5,062.73	0.00	5,062.73	4,221.39	2,110.70	8,050.66	4,031.31	0.44	-0.47	0.935
10.00	-47.63	-43.98	0.00	-5,018.70	0.00	5,018.70	4,205.53	2,102.76	7,989.95	4,000.91	0.55	-0.52	0.932
11.00	-47.24	-43.93	0.00	-4,974.72	0.00	4,974.72	4,189.66	2,094.83	7,929.46	3,970.62	0.66	-0.57	0.930
12.00	-46.85	-43.87	0.00	-4,930.79	0.00	4,930.79	4,173.80	2,086.90	7,869.20	3,940.45	0.79	-0.62	0.928
13.00	-46.47	-43.82	0.00	-4,886.92	0.00	4,886.92	4,157.94	2,078.97	7,809.18	3,910.39	0.92	-0.68	0.925
14.00	-46.08	-43.77	0.00	-4,843.10	0.00	4,843.10	4,142.07	2,071.04	7,749.38	3,880.45	1.07	-0.73	0.923
15.00	-45.70	-43.71	0.00	-4,799.34	0.00	4,799.34	4,126.21	2,063.10	7,689.82	3,850.62	1.23	-0.78	0.920
16.00	-45.32	-43.66	0.00	-4,755.63	0.00	4,755.63	4,110.34	2,055.17	7,630.48	3,820.91	1.40	-0.83	0.918
17.00	-44.94	-43.60	0.00	-4,711.97	0.00	4,711.97	4,094.48	2,047.24	7,571.37	3,791.31	1.58	-0.89	0.915
18.00	-44.56	-43.55	0.00	-4,668.37	0.00	4,668.37	4,078.62	2,039.31	7,512.50	3,761.83	1.77	-0.94	0.913
19.00	-44.18	-43.49	0.00	-4,624.82	0.00	4,624.82	4,062.75	2,031.38	7,453.85	3,732.47	1.98	-0.99	0.910
20.00	-43.80	-43.44	0.00	-4,581.33	0.00	4,581.33	4,046.89	2,023.44	7,395.44	3,703.21	2.19	-1.05	0.907
21.00	-43.42	-43.38	0.00	-4,537.90	0.00	4,537.90	4,031.02	2,015.51	7,337.25	3,674.08	2.42	-1.10	0.905
22.00	-43.06	-43.34	0.00	-4,494.52	0.00	4,494.52	4,015.16	2,007.58	7,279.29	3,645.06	2.65	-1.15	0.902
22.50	-42.87	-43.31	0.00	-4,472.85	0.00	4,472.85	4,007.23	2,003.61	7,250.40	3,630.59	2.77	-1.18	0.901
22.50	-42.87	-43.31	0.00	-4,472.85	0.00	4,472.85	4,007.23	2,003.61	7,250.40	3,630.59	2.77	-1.18	0.901
23.00	-42.67	-43.27	0.00	-4,451.19	0.00	4,451.19	3,999.30	1,999.65	7,221.56	3,616.15	2.90	-1.20	0.899
24.00	-42.30	-43.21	0.00	-4,407.93	0.00	4,407.93	3,983.43	1,991.72	7,164.07	3,587.36	3.16	-1.26	0.896
25.00	-41.92	-43.15	0.00	-4,364.72	0.00	4,364.72	3,967.57	1,983.78	7,106.80	3,558.68	3.43	-1.31	0.893
26.00	-41.55	-43.10	0.00	-4,321.56	0.00	4,321.56	3,951.70	1,975.85	7,049.76	3,530.12	3.71	-1.36	0.890
27.00	-41.18	-43.04	0.00	-4,278.47	0.00	4,278.47	3,935.84	1,967.92	6,992.95	3,501.67	4.00	-1.42	0.887
28.00	-40.82	-42.99	0.00	-4,235.43	0.00	4,235.43	3,919.98	1,959.99	6,936.37	3,473.34	4.30	-1.47	0.884
28.50	-40.63	-42.97	0.00	-4,213.93	0.00	4,213.93	3,912.04	1,956.02	6,908.17	3,459.22	4.46	-1.50	0.883
29.00	-40.33	-42.92	0.00	-4,192.45	0.00	4,192.45	3,904.11	1,952.06	6,880.03	3,445.13	4.61	-1.52	0.871
30.00	-39.75	-42.85	0.00	-4,149.53	0.00	4,149.53	3,888.25	1,944.12	6,823.91	3,417.03	4.94	-1.58	0.868
31.00	-39.17	-42.78	0.00	-4,106.68	0.00	4,106.68	3,872.38	1,936.19	6,768.02	3,389.04	5.28	-1.63	0.865
32.00	-38.59	-42.71	0.00	-4,063.89	0.00	4,063.89	3,856.52	1,928.26	6,712.36	3,361.17	5.62	-1.68	0.862
33.00	-38.02	-42.64	0.00	-4,021.18	0.00	4,021.18	3,840.66	1,920.33	6,656.93	3,333.41	5.98	-1.73	0.858
34.00	-37.44	-42.57	0.00	-3,978.54	0.00	3,978.54	3,824.79	1,912.40	6,601.73	3,305.77	6.35	-1.79	0.855
35.00	-36.87	-42.50	0.00	-3,935.97	0.00	3,935.97	3,809.62	1,909.81	6,546.12	3,278.16	6.73	-1.84	0.852
36.00	-36.50	-42.43	0.00	-3,893.47	0.00	3,893.47	3,883.76	1,941.88	6,480.07	3,250.09	7.12	-1.89	0.825
37.00	-36.14	-42.36	0.00	-3,851.04	0.00	3,851.04	3,867.90	1,933.95	6,414.24	3,222.14	7.52	-1.94	0.822
38.00	-35.78	-42.29	0.00	-3,808.69	0.00	3,808.69	3,852.03	1,926.02	6,348.65	3,194.30	7.94	-1.99	0.818
39.00	-35.41	-42.21	0.00	-3,766.40	0.00	3,766.40	3,836.17	1,918.08	6,283.29	3,166.58	8.36	-2.04	0.815
40.00	-35.05	-42.14	0.00	-3,724.19	0.00	3,724.19	3,820.30	1,910.15	6,218.15	3,138.97	8.79	-2.09	0.811
41.00	-34.69	-42.07	0.00	-3,682.05	0.00	3,682.05	3,804.44	1,902.22	6,153.25	3,111.48	9.24	-2.14	0.807
42.00	-34.33	-41.99	0.00	-3,639.99	0.00	3,639.99	3,788.58	1,894.29	6,088.57	3,084.10	9.69	-2.19	0.804
43.00	-33.98	-41.91	0.00	-3,598.00	0.00	3,598.00	3,772.71	1,886.36	6,024.13	3,056.84	10.15	-2.24	0.800
43.00	-33.98	-41.91	0.00	-3,598.00	0.00	3,598.00	3,772.71	1,886.36	6,024.13	3,056.84	10.15	-2.24	0.800
44.00	-33.62	-41.84	0.00	-3,556.08	0.00	3,556.08	3,756.85	1,878.42	5,964.91	3,029.69	10.63	-2.29	0.796
45.00	-33.26	-41.76	0.00	-3,514.25	0.00	3,514.25	3,740.98	1,870.49	5,905.93	3,002.66	11.11	-2.34	0.792
46.00	-32.91	-41.68	0.00	-3,472.49	0.00	3,472.49	3,725.12	1,862.56	5,847.17	2,975.74	11.61	-2.39	0.788

<b>Load Case: 0.9D + 1.6W</b>			<b>110 mph with No Ice (Reduced DL)</b>							<b>36 Iterations</b>		
<b>Gust Response Factor : 1.10</b>					<b>Wind Importance Factor : 1.00</b>							
<b>Dead Load Factor : 0.90</b>												
<b>Wind Load Factor : 1.60</b>												

47.00	-32.56	-41.60	0.00	-3,430.81	0.00	3,430.81	3,709.26	1,854.63	6,206.65	3,107.94	12.12	-2.44	0.784
48.00	-32.20	-41.52	0.00	-3,389.20	0.00	3,389.20	3,693.39	1,846.70	6,153.35	3,081.25	12.63	-2.49	0.780
49.00	-31.85	-41.44	0.00	-3,347.68	0.00	3,347.68	3,677.53	1,838.76	6,100.29	3,054.68	13.16	-2.54	0.776
50.00	-31.44	-41.25	0.00	-3,306.24	0.00	3,306.24	3,661.66	1,830.83	6,047.45	3,028.22	13.70	-2.59	0.772
51.00	-31.09	-41.17	0.00	-3,264.99	0.00	3,264.99	3,645.80	1,822.90	5,994.84	3,001.88	14.25	-2.64	0.767
52.00	-30.74	-41.09	0.00	-3,223.83	0.00	3,223.83	3,629.94	1,814.97	5,942.47	2,975.65	14.81	-2.69	0.763
53.00	-30.39	-41.00	0.00	-3,182.74	0.00	3,182.74	3,614.07	1,807.04	5,890.32	2,949.54	15.37	-2.74	0.759
54.00	-30.05	-40.88	0.00	-3,141.74	0.00	3,141.74	3,598.21	1,799.10	5,838.41	2,923.54	15.95	-2.79	0.754
55.00	-29.71	-40.68	0.00	-3,100.86	0.00	3,100.86	3,582.34	1,791.17	5,786.72	2,897.66	16.54	-2.84	0.750
56.00	-29.37	-40.48	0.00	-3,060.19	0.00	3,060.19	3,566.48	1,783.24	5,735.26	2,871.89	17.14	-2.89	0.745
57.00	-29.04	-40.27	0.00	-3,019.71	0.00	3,019.71	3,550.62	1,775.31	5,684.03	2,846.24	17.75	-2.94	0.741
58.00	-28.70	-40.07	0.00	-2,979.43	0.00	2,979.43	3,534.75	1,767.38	5,633.04	2,820.71	18.37	-2.99	0.736
59.00	-28.22	-39.86	0.00	-2,939.36	0.00	2,939.36	3,518.89	1,759.44	5,582.27	2,795.28	19.00	-3.03	0.724
60.00	-27.75	-39.64	0.00	-2,899.51	0.00	2,899.51	3,503.02	1,751.51	5,531.73	2,769.98	19.65	-3.08	0.719
61.00	-27.27	-39.42	0.00	-2,859.87	0.00	2,859.87	3,487.16	1,743.58	5,481.43	2,744.79	20.30	-3.13	0.715
62.00	-26.80	-39.21	0.00	-2,820.45	0.00	2,820.45	3,471.30	1,735.65	5,431.35	2,719.71	20.96	-3.18	0.710
63.00	-26.33	-39.03	0.00	-2,781.24	0.00	2,781.24	3,455.43	1,727.72	5,381.50	2,694.75	21.63	-3.23	0.705
63.50	-26.10	-38.92	0.00	-2,761.73	0.00	2,761.73	3,158.12	1,579.06	5,037.43	2,522.46	21.97	-3.25	0.692
64.00	-25.95	-38.78	0.00	-2,742.27	0.00	2,742.27	3,152.80	1,576.40	5,017.53	2,512.49	22.31	-3.28	0.689
65.00	-25.66	-38.57	0.00	-2,703.49	0.00	2,703.49	3,142.13	1,571.07	4,977.80	2,492.60	23.00	-3.33	0.684
66.00	-25.37	-38.36	0.00	-2,664.92	0.00	2,664.92	3,131.44	1,565.72	4,938.17	2,472.75	23.70	-3.39	0.678
67.00	-25.09	-38.16	0.00	-2,626.56	0.00	2,626.56	3,120.71	1,560.35	4,898.65	2,452.96	24.42	-3.44	0.672
68.00	-24.80	-37.95	0.00	-2,588.41	0.00	2,588.41	3,109.92	1,554.96	4,859.19	2,433.21	25.15	-3.50	0.666
69.00	-24.52	-37.74	0.00	-2,550.46	0.00	2,550.46	3,095.65	1,547.82	4,814.46	2,410.81	25.88	-3.55	0.661
70.00	-24.24	-37.53	0.00	-2,512.72	0.00	2,512.72	3,081.37	1,540.68	4,769.94	2,388.51	26.63	-3.60	0.656
71.00	-23.96	-37.32	0.00	-2,475.19	0.00	2,475.19	3,067.09	1,533.55	4,725.62	2,366.32	27.39	-3.66	0.650
72.00	-23.68	-37.11	0.00	-2,437.88	0.00	2,437.88	3,052.81	1,526.41	4,681.51	2,344.23	28.17	-3.71	0.645
73.00	-23.40	-36.90	0.00	-2,400.77	0.00	2,400.77	3,038.54	1,519.27	4,637.61	2,322.25	28.95	-3.77	0.640
74.00	-23.12	-36.69	0.00	-2,363.87	0.00	2,363.87	3,024.26	1,512.13	4,593.91	2,300.37	29.74	-3.82	0.634
75.00	-22.85	-36.47	0.00	-2,327.19	0.00	2,327.19	3,009.98	1,504.99	4,550.42	2,278.59	30.55	-3.87	0.629
76.00	-22.57	-36.26	0.00	-2,290.72	0.00	2,290.72	2,995.70	1,497.85	4,507.14	2,256.92	31.37	-3.93	0.624
77.00	-22.30	-36.05	0.00	-2,254.46	0.00	2,254.46	2,981.43	1,490.71	4,464.06	2,235.35	32.19	-3.98	0.618
78.00	-22.03	-35.83	0.00	-2,218.41	0.00	2,218.41	2,967.15	1,483.57	4,421.19	2,213.88	33.03	-4.03	0.613
79.00	-21.76	-35.62	0.00	-2,182.58	0.00	2,182.58	2,952.87	1,476.44	4,378.53	2,192.52	33.88	-4.08	0.607
80.00	-21.49	-35.40	0.00	-2,146.96	0.00	2,146.96	2,938.59	1,469.30	4,336.07	2,171.26	34.74	-4.14	0.601
81.00	-21.22	-35.19	0.00	-2,111.55	0.00	2,111.55	2,924.32	1,462.16	4,293.83	2,150.10	35.62	-4.19	0.596
82.00	-20.95	-34.97	0.00	-2,076.37	0.00	2,076.37	2,910.04	1,455.02	4,251.78	2,129.05	36.50	-4.24	0.590
83.00	-20.68	-34.76	0.00	-2,041.39	0.00	2,041.39	2,895.76	1,447.88	4,209.95	2,108.10	37.39	-4.29	0.585
84.00	-20.42	-34.54	0.00	-2,006.63	0.00	2,006.63	2,881.48	1,440.74	4,168.32	2,087.26	38.30	-4.34	0.579
85.00	-20.15	-34.33	0.00	-1,972.09	0.00	1,972.09	2,867.21	1,433.60	4,126.90	2,066.52	39.21	-4.39	0.573
86.00	-19.89	-34.11	0.00	-1,937.77	0.00	1,937.77	2,852.93	1,426.46	4,085.69	2,045.88	40.14	-4.44	0.567
87.00	-19.63	-33.89	0.00	-1,903.66	0.00	1,903.66	2,838.65	1,419.33	4,044.68	2,025.35	41.07	-4.50	0.561
88.00	-19.37	-33.67	0.00	-1,869.77	0.00	1,869.77	2,824.37	1,412.19	4,003.88	2,004.91	42.02	-4.55	0.555
89.00	-19.00	-33.44	0.00	-1,836.10	0.00	1,836.10	2,810.09	1,405.05	3,963.28	1,984.59	42.97	-4.60	0.543
90.00	-18.64	-33.21	0.00	-1,802.65	0.00	1,802.65	2,795.82	1,397.91	3,922.90	1,964.36	43.94	-4.64	0.537
91.00	-18.28	-32.98	0.00	-1,769.44	0.00	1,769.44	2,781.54	1,390.77	3,882.72	1,944.24	44.92	-4.69	0.531
92.00	-17.92	-32.75	0.00	-1,736.46	0.00	1,736.46	2,767.26	1,383.63	3,842.74	1,924.23	45.91	-4.74	0.525
93.00	-17.56	-32.52	0.00	-1,703.71	0.00	1,703.71	2,292.76	1,146.38	3,238.31	1,621.56	46.90	-4.79	0.577
94.00	-17.32	-32.30	0.00	-1,671.19	0.00	1,671.19	2,284.25	1,142.13	3,209.75	1,607.26	47.91	-4.84	0.570
95.00	-17.09	-32.08	0.00	-1,638.89	0.00	1,638.89	2,275.71	1,137.86	3,181.27	1,593.00	48.93	-4.89	0.562
96.00	-16.85	-31.86	0.00	-1,606.81	0.00	1,606.81	2,267.14	1,133.57	3,152.86	1,578.78	49.96	-4.94	0.554
97.00	-16.62	-31.64	0.00	-1,574.96	0.00	1,574.96	2,258.54	1,129.27	3,124.54	1,564.59	51.00	-4.99	0.546
98.00	-16.39	-31.42	0.00	-1,543.32	0.00	1,543.32	2,249.90	1,124.95	3,096.30	1,550.45	52.05	-5.04	0.539
99.00	-16.16	-31.19	0.00	-1,511.90	0.00	1,511.90	2,241.24	1,120.62	3,068.14	1,536.35	53.11	-5.09	0.531
100.00	-15.93	-30.97	0.00	-1,480.71	0.00	1,480.71	2,232.54	1,116.27	3,040.06	1,522.29	54.18	-5.14	0.523
101.00	-15.70	-30.75	0.00	-1,449.74	0.00	1,449.74	2,223.81	1,111.90	3,012.06	1,508.27	55.26	-5.18	0.515
102.00	-15.47	-30.53	0.00	-1,418.98	0.00	1,418.98	2,215.04	1,107.52	2,984.14	1,494.29	56.35	-5.23	0.507

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:55:34 PM

Customer: AT&T Mobility

**Load Case: 0.9D + 1.6W**

**110 mph with No Ice (Reduced DL)**

**36 Iterations**

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

103.00	-15.24	-30.31	0.00	-1,388.45	0.00	1,388.45	2,206.25	1,103.12	2,956.31	1,480.35	57.45	-5.28	0.499
104.00	-15.02	-30.09	0.00	-1,358.15	0.00	1,358.15	2,197.42	1,098.71	2,928.57	1,466.46	58.56	-5.33	0.491
105.00	-14.79	-29.86	0.00	-1,328.06	0.00	1,328.06	2,188.56	1,094.28	2,900.91	1,452.61	59.68	-5.37	0.483
105.00	-14.79	-29.86	0.00	-1,328.06	0.00	1,328.06	2,188.56	1,094.28	2,900.91	1,452.61	59.68	-5.37	0.922
106.00	-14.62	-29.65	0.00	-1,298.20	0.00	1,298.20	2,179.67	1,089.83	2,873.33	1,438.80	60.81	-5.42	0.910
107.00	-14.44	-29.45	0.00	-1,268.54	0.00	1,268.54	2,170.74	1,085.37	2,845.85	1,425.04	61.95	-5.51	0.898
108.00	-14.25	-29.24	0.00	-1,239.09	0.00	1,239.09	2,161.78	1,080.89	2,818.44	1,411.32	63.11	-5.60	0.885
109.00	-14.07	-29.04	0.00	-1,209.85	0.00	1,209.85	2,150.55	1,075.28	2,788.22	1,396.18	64.29	-5.68	0.874
110.00	-13.89	-28.83	0.00	-1,180.82	0.00	1,180.82	2,138.65	1,069.33	2,757.31	1,380.70	65.49	-5.77	0.862
111.00	-13.71	-28.66	0.00	-1,151.99	0.00	1,151.99	2,126.76	1,063.38	2,726.56	1,365.31	66.70	-5.85	0.851
112.00	-13.52	-28.58	0.00	-1,123.32	0.00	1,123.32	2,114.86	1,057.43	2,695.99	1,350.00	67.94	-5.94	0.839
113.00	-13.34	-28.45	0.00	-1,094.75	0.00	1,094.75	2,102.96	1,051.48	2,665.59	1,334.78	69.19	-6.02	0.827
114.00	-13.16	-28.25	0.00	-1,066.30	0.00	1,066.30	2,091.06	1,045.53	2,635.36	1,319.64	70.46	-6.10	0.815
115.00	-12.99	-28.06	0.00	-1,038.05	0.00	1,038.05	2,079.16	1,039.58	2,605.31	1,304.59	71.74	-6.19	0.803
116.00	-12.82	-27.89	0.00	-1,009.99	0.00	1,009.99	2,067.27	1,033.63	2,575.43	1,289.63	73.04	-6.27	0.790
116.50	-12.74	-27.79	0.00	-996.04	0.00	996.04	2,061.32	1,030.66	2,560.55	1,282.18	73.70	-6.31	0.784
117.00	-12.61	-27.65	0.00	-982.15	0.00	982.15	2,055.37	1,027.68	2,545.72	1,274.75	74.36	-6.35	0.777
118.00	-12.37	-27.44	0.00	-954.49	0.00	954.49	2,043.47	1,021.73	2,516.18	1,259.96	75.70	-6.43	0.764
119.00	-12.13	-27.23	0.00	-927.05	0.00	927.05	2,031.57	1,015.79	2,486.81	1,245.26	77.05	-6.51	0.751
120.00	-11.89	-27.02	0.00	-899.82	0.00	899.82	2,019.67	1,009.84	2,457.62	1,230.64	78.42	-6.59	0.738
121.00	-11.65	-26.82	0.00	-872.79	0.00	872.79	1,562.89	781.45	1,930.84	966.86	79.81	-6.66	0.911
122.00	-11.50	-26.62	0.00	-845.98	0.00	845.98	1,556.55	778.28	1,911.74	957.29	81.21	-6.74	0.892
123.00	-11.35	-26.42	0.00	-819.36	0.00	819.36	1,550.18	775.09	1,892.68	947.75	82.63	-6.83	0.873
124.00	-11.21	-26.22	0.00	-792.94	0.00	792.94	1,543.77	771.89	1,873.68	938.23	84.06	-6.91	0.854
125.00	-11.06	-26.03	0.00	-766.72	0.00	766.72	1,537.34	768.67	1,854.73	928.74	85.52	-7.00	0.834
126.00	-9.01	-20.33	0.00	-740.69	0.00	740.69	1,530.87	765.43	1,835.84	919.28	86.99	-7.08	0.812
127.00	-8.88	-20.13	0.00	-720.36	0.00	720.36	1,524.37	762.18	1,817.00	909.85	88.48	-7.17	0.798
128.00	-8.76	-19.93	0.00	-700.23	0.00	700.23	1,517.84	758.92	1,798.22	900.45	89.98	-7.25	0.784
129.00	-8.64	-19.73	0.00	-680.30	0.00	680.30	1,511.27	755.64	1,779.50	891.07	91.51	-7.33	0.770
130.00	-8.52	-19.54	0.00	-660.57	0.00	660.57	1,504.67	752.34	1,760.83	881.72	93.05	-7.41	0.756
131.00	-8.40	-19.34	0.00	-641.03	0.00	641.03	1,498.04	749.02	1,742.22	872.40	94.60	-7.49	0.741
132.00	-8.28	-19.14	0.00	-621.69	0.00	621.69	1,491.38	745.69	1,723.67	863.12	96.18	-7.57	0.727
133.00	-8.17	-18.94	0.00	-602.55	0.00	602.55	1,484.69	742.34	1,705.18	853.86	97.77	-7.65	0.712
134.00	-8.05	-18.75	0.00	-583.61	0.00	583.61	1,477.96	738.98	1,686.75	844.63	99.37	-7.72	0.697
135.00	-7.94	-18.55	0.00	-564.86	0.00	564.86	1,471.20	735.60	1,668.38	835.43	100.99	-7.80	0.682
136.00	-7.82	-18.35	0.00	-546.31	0.00	546.31	1,464.41	732.21	1,650.07	826.26	102.63	-7.87	0.667
137.00	-7.71	-18.16	0.00	-527.96	0.00	527.96	1,457.59	728.80	1,631.83	817.13	104.28	-7.95	0.652
138.00	-7.60	-17.96	0.00	-509.80	0.00	509.80	1,450.74	725.37	1,613.64	808.02	105.95	-8.02	0.637
139.00	-7.49	-17.77	0.00	-491.84	0.00	491.84	1,443.85	721.92	1,595.53	798.95	107.63	-8.09	0.621
140.00	-7.39	-17.57	0.00	-474.08	0.00	474.08	1,436.93	718.47	1,577.47	789.91	109.33	-8.16	0.606
141.00	-7.28	-17.37	0.00	-456.51	0.00	456.51	1,429.98	714.99	1,559.48	780.90	111.04	-8.23	0.590
142.00	-7.17	-17.18	0.00	-439.13	0.00	439.13	1,423.00	711.50	1,541.56	771.93	112.77	-8.30	0.574
143.00	-7.07	-16.99	0.00	-421.95	0.00	421.95	1,415.98	707.99	1,523.71	762.99	114.51	-8.37	0.559
144.00	-6.97	-16.79	0.00	-404.97	0.00	404.97	1,408.93	704.47	1,505.92	754.08	116.26	-8.43	0.543
145.00	-5.96	-14.11	0.00	-388.18	0.00	388.18	1,401.85	700.93	1,488.20	745.20	118.03	-8.49	0.526
146.00	-5.86	-14.02	0.00	-374.07	0.00	374.07	1,394.74	697.37	1,470.54	736.36	119.81	-8.56	0.513
147.00	-5.76	-13.93	0.00	-360.05	0.00	360.05	1,387.60	693.80	1,452.96	727.56	121.60	-8.62	0.499
148.00	-5.66	-13.84	0.00	-346.12	0.00	346.12	1,379.83	689.92	1,434.84	718.48	123.40	-8.68	0.486
149.00	-5.57	-13.75	0.00	-332.28	0.00	332.28	1,370.32	685.16	1,415.01	708.56	125.22	-8.74	0.473
150.00	-5.42	-13.66	0.00	-318.53	0.00	318.53	1,360.80	680.40	1,395.33	698.70	127.05	-8.79	0.460
151.00	-5.28	-13.56	0.00	-304.87	0.00	304.87	1,351.28	675.64	1,375.78	688.91	128.89	-8.85	0.447
152.00	-5.14	-13.48	0.00	-291.31	0.00	291.31	1,341.76	670.88	1,356.37	679.19	130.74	-8.91	0.433
152.50	-5.07	-13.43	0.00	-284.57	0.00	284.57	942.35	471.17	968.66	485.05	131.68	-8.93	0.593
153.00	-5.03	-13.37	0.00	-277.86	0.00	277.86	940.20	470.10	963.05	482.24	132.61	-8.96	0.582
154.00	-4.94	-13.29	0.00	-264.49	0.00	264.49	935.87	467.94	951.84	476.63	134.49	-9.03	0.561
155.00	-4.86	-13.20	0.00	-251.20	0.00	251.20	931.51	465.76	940.66	471.03	136.38	-9.09	0.539
156.00	-4.78	-13.12	0.00	-238.00	0.00	238.00	927.12	463.56	929.51	465.45	138.28	-9.15	0.517



Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:55:34 PM

Customer: AT&T Mobility

**Load Case:** 0.9D + 1.6W

110 mph with No Ice (Reduced DL)

36 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

157.00	-4.70	-13.03	0.00	-224.88	0.00	224.88	922.70	461.35	918.40	459.88	140.20	-9.21	0.495
158.00	-4.62	-12.95	0.00	-211.85	0.00	211.85	918.25	459.12	907.31	454.33	142.12	-9.27	0.472
159.00	-4.54	-12.86	0.00	-198.91	0.00	198.91	913.76	456.88	896.26	448.80	144.06	-9.33	0.449
160.00	-4.47	-12.78	0.00	-186.05	0.00	186.05	909.24	454.62	885.24	443.28	146.02	-9.38	0.425
161.00	-4.39	-12.69	0.00	-173.27	0.00	173.27	904.69	452.35	874.26	437.78	147.98	-9.43	0.401
162.00	-4.31	-12.61	0.00	-160.58	0.00	160.58	900.11	450.06	863.31	432.30	149.95	-9.48	0.377
163.00	-4.24	-12.52	0.00	-147.97	0.00	147.97	895.50	447.75	852.40	426.83	151.93	-9.53	0.352
164.00	-4.16	-12.44	0.00	-135.45	0.00	135.45	890.85	445.42	841.52	421.39	153.92	-9.57	0.327
165.00	-4.09	-12.36	0.00	-123.01	0.00	123.01	886.17	443.09	830.68	415.96	155.92	-9.61	0.301
166.00	-4.02	-12.27	0.00	-110.66	0.00	110.66	881.46	440.73	819.88	410.55	157.93	-9.65	0.275
167.00	-2.09	-7.03	0.00	-98.38	0.00	98.38	876.72	438.36	809.12	405.16	159.95	-9.68	0.245
168.00	-2.03	-6.95	0.00	-91.36	0.00	91.36	871.94	435.97	798.40	399.79	161.97	-9.71	0.231
169.00	-1.97	-6.86	0.00	-84.41	0.00	84.41	867.13	433.57	787.71	394.44	164.00	-9.74	0.217
170.00	-1.91	-6.78	0.00	-77.55	0.00	77.55	862.29	431.15	777.07	389.11	166.03	-9.77	0.202
171.00	-1.86	-6.70	0.00	-70.77	0.00	70.77	857.42	428.71	766.47	383.80	168.07	-9.80	0.187
172.00	-1.80	-6.62	0.00	-64.07	0.00	64.07	852.52	426.26	755.91	378.52	170.12	-9.82	0.172
173.00	-1.75	-6.54	0.00	-57.45	0.00	57.45	847.58	423.79	745.39	373.25	172.17	-9.85	0.156
174.00	-1.70	-6.43	0.00	-50.91	0.00	50.91	842.61	421.31	734.92	368.01	174.22	-9.87	0.141
175.00	-1.69	-5.66	0.00	-44.48	0.00	44.48	837.61	418.81	724.49	362.78	176.28	-9.89	0.125
176.00	-1.64	-5.58	0.00	-38.83	0.00	38.83	832.58	416.29	714.11	357.59	178.34	-9.90	0.111
177.00	-1.59	-5.50	0.00	-33.25	0.00	33.25	827.51	413.76	703.77	352.41	180.41	-9.92	0.096
178.00	-1.54	-5.42	0.00	-27.75	0.00	27.75	822.42	411.21	693.48	347.26	182.48	-9.93	0.082
179.00	-1.49	-5.34	0.00	-22.33	0.00	22.33	817.29	408.64	683.23	342.12	184.55	-9.94	0.067
180.00	-1.45	-5.27	0.00	-16.98	0.00	16.98	812.13	406.06	673.04	337.02	186.62	-9.95	0.052
181.00	-1.40	-5.19	0.00	-11.72	0.00	11.72	806.93	403.47	662.89	331.94	188.69	-9.96	0.037
182.00	-1.35	-5.11	0.00	-6.53	0.00	6.53	801.71	400.85	652.79	326.88	190.77	-9.96	0.022
183.00	0.00	-4.80	0.00	-1.41	0.00	1.41	796.45	398.23	642.74	321.85	192.85	-9.96	0.005

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:55:34 PM

Customer: AT&T Mobility

<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi	50 mph with 0.75 in Radial Ice	34 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

**Applied Segment Forces Summary**

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		12.0	0.0					0.0	0.0	12.0	0.0	0.0	0.0
1.00		24.0	372.4					0.0	91.1	24.0	463.5	0.0	0.0
2.00		24.0	378.2					0.0	92.3	24.0	470.5	0.0	0.0
3.00		24.0	380.5					0.0	92.9	24.0	473.4	0.0	0.0
4.00		23.9	381.6					0.0	93.3	23.9	474.9	0.0	0.0
5.00		23.9	382.1					0.0	93.7	23.9	475.8	0.0	0.0
6.00		23.8	382.3					0.0	228.9	23.8	611.2	0.0	0.0
7.00		23.7	382.2					0.0	230.1	23.7	612.3	0.0	0.0
8.00		23.7	381.9					0.0	231.1	23.7	613.0	0.0	0.0
9.00		23.6	381.5					0.0	232.0	23.6	613.5	0.0	0.0
10.00		23.5	381.0					0.0	232.8	23.5	613.8	0.0	0.0
11.00		23.5	380.4					0.0	233.5	23.5	614.0	0.0	0.0
12.00		23.4	379.7					0.0	234.2	23.4	614.0	0.0	0.0
13.00		23.3	379.0					0.0	234.9	23.3	613.9	0.0	0.0
14.00		23.2	378.2					0.0	235.5	23.2	613.7	0.0	0.0
15.00		23.2	377.4					0.0	236.0	23.2	613.4	0.0	0.0
16.00		23.1	376.5					0.0	236.6	23.1	613.1	0.0	0.0
17.00		23.0	375.6					0.0	237.1	23.0	612.7	0.0	0.0
18.00		22.9	374.7					0.0	237.5	22.9	612.2	0.0	0.0
19.00		22.9	373.7					0.0	238.0	22.9	611.7	0.0	0.0
20.00		22.8	372.7					0.0	238.4	22.8	611.1	0.0	0.0
21.00		22.7	371.7					0.0	238.8	22.7	610.5	0.0	0.0
22.00		17.0	370.6					0.0	239.2	17.0	609.8	0.0	0.0
22.50	Reinf. Top Reinf	11.3	185.0					0.0	119.7	11.3	304.7	0.0	0.0
23.00		16.9	184.7					0.0	119.8	16.9	304.5	0.0	0.0
24.00		22.5	368.5					0.0	239.9	22.5	608.4	0.0	0.0
25.00		22.4	367.4					0.0	240.3	22.4	607.7	0.0	0.0
26.00		22.3	366.3					0.0	240.6	22.3	606.9	0.0	0.0
27.00		22.2	365.2					0.0	241.0	22.2	606.1	0.0	0.0
28.00		16.6	364.0					0.0	241.3	16.6	605.3	0.0	0.0
28.50	Bot - Section 2	11.2	181.6					0.0	120.8	11.2	302.4	0.0	0.0
29.00		16.9	325.1					0.0	120.8	16.9	446.0	0.0	0.0
30.00		22.5	648.4					0.0	241.9	22.5	890.3	0.0	0.0
31.00		22.6	646.1					0.0	242.2	22.6	888.3	0.0	0.0
32.00		22.8	643.8					0.0	242.5	22.8	886.3	0.0	0.0
33.00		22.9	641.5					0.0	242.7	22.9	884.2	0.0	0.0
34.00		23.0	639.2					0.0	243.0	23.0	882.2	0.0	0.0
35.00	Top - Section 1	23.1	636.8					0.0	243.3	23.1	880.1	0.0	0.0
36.00		23.2	362.9					0.0	243.5	23.2	606.4	0.0	0.0
37.00		23.3	361.7					0.0	243.8	23.3	605.5	0.0	0.0
38.00		23.4	360.5					0.0	244.0	23.4	604.5	0.0	0.0
39.00		23.5	359.2					0.0	244.2	23.5	603.5	0.0	0.0
40.00		23.6	358.0					0.0	244.5	23.6	602.5	0.0	0.0
41.00		23.7	356.7					0.0	244.7	23.7	601.4	0.0	0.0
42.00		23.7	355.5					0.0	244.9	23.7	600.4	0.0	0.0
43.00	Reinf. Top Reinf	23.8	354.2					0.0	245.1	23.8	599.3	0.0	0.0
44.00		23.9	352.9					0.0	245.3	23.9	598.3	0.0	0.0
45.00		23.9	351.7					0.0	245.5	23.9	597.2	0.0	0.0

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:55:47 PM

Customer: AT&T Mobility

<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi	<b>50 mph with 0.75 in Radial Ice</b>				<b>34 Iterations</b>				
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00				Wind Importance Factor : 1.00				
Dead Load Factor : 1.20					Ice Importance Factor : 1.00				
Wind Load Factor : 1.00									

46.00		24.0	350.4					0.0	245.8	24.0	596.1	0.0	0.0
47.00		24.0	349.1					0.0	246.0	24.0	595.1	0.0	0.0
48.00		24.1	347.8					0.0	246.1	24.1	594.0	0.0	0.0
49.00		24.2	346.5					0.0	246.3	24.2	592.9	0.0	0.0
50.00	Appertunance(s)	24.2	345.2	21.8	0.0	0.0	32.4	0.0	246.5	46.0	624.1	0.0	0.0
51.00		24.2	343.9					0.0	246.7	24.2	590.6	0.0	0.0
52.00		24.3	342.6					0.0	246.9	24.3	589.5	0.0	0.0
53.00		24.3	341.3					0.0	247.1	24.3	588.4	0.0	0.0
54.00		24.4	340.0					0.0	247.3	24.4	587.2	0.0	0.0
55.00		24.4	338.7					11.5	247.4	35.9	586.1	0.0	0.0
56.00		24.4	337.3					11.6	247.6	36.0	584.9	0.0	0.0
57.00		24.4	336.0					11.7	247.8	36.1	583.8	0.0	0.0
58.00	Bot - Section 3	24.7	334.7					11.8	247.9	36.4	582.6	0.0	0.0
59.00		24.9	528.1					11.8	248.1	36.8	776.2	0.0	0.0
60.00		24.9	525.9					11.9	248.3	36.8	774.2	0.0	0.0
61.00		25.0	523.7					12.0	248.4	36.9	772.1	0.0	0.0
62.00		25.0	521.5					12.0	248.6	37.0	770.1	0.0	0.0
63.00		18.7	519.3					12.1	248.7	30.9	768.0	0.0	0.0
63.50	Top - Section 2	12.5	258.9					6.1	124.4	18.6	383.3	0.0	0.0
64.00		18.8	135.3					6.1	124.5	24.9	259.8	0.0	0.0
65.00		25.0	269.7					12.2	249.0	37.3	518.8	0.0	0.0
66.00		25.0	268.6					12.3	249.2	37.3	517.8	0.0	0.0
67.00		25.0	267.6					12.4	249.3	37.4	516.9	0.0	0.0
68.00		25.0	266.5					12.4	249.5	37.5	516.0	0.0	0.0
69.00		25.0	265.4					12.5	249.6	37.5	515.0	0.0	0.0
70.00		25.0	264.3					12.6	249.8	37.6	514.1	0.0	0.0
71.00		25.0	263.2					12.6	249.9	37.7	513.1	0.0	0.0
72.00		25.0	262.2					12.7	250.0	37.7	512.2	0.0	0.0
73.00		25.0	261.1					12.7	250.2	37.8	511.2	0.0	0.0
74.00		25.0	260.0					12.8	250.3	37.8	510.3	0.0	0.0
75.00		25.0	258.9					12.9	250.4	37.9	509.3	0.0	0.0
76.00		25.0	257.8					12.9	250.6	37.9	508.4	0.0	0.0
77.00		25.0	256.7					13.0	250.7	38.0	507.4	0.0	0.0
78.00		25.0	255.6					13.0	250.8	38.0	506.4	0.0	0.0
79.00		25.0	254.5					13.1	251.0	38.1	505.4	0.0	0.0
80.00		24.9	253.4					13.2	251.1	38.1	504.5	0.0	0.0
81.00		24.9	252.3					13.2	251.2	38.1	503.5	0.0	0.0
82.00		24.9	251.2					13.3	251.3	38.2	502.5	0.0	0.0
83.00		24.9	250.0					13.3	251.4	38.2	501.5	0.0	0.0
84.00		24.9	248.9					13.4	251.6	38.2	500.5	0.0	0.0
85.00		24.8	247.8					13.4	251.7	38.3	499.5	0.0	0.0
86.00		24.8	246.7					13.5	251.8	38.3	498.5	0.0	0.0
87.00		24.8	245.6					13.6	251.9	38.3	497.5	0.0	0.0
88.00	Bot - Section 4	24.9	244.5					13.6	252.0	38.6	496.5	0.0	0.0
89.00		25.1	387.2					13.7	252.2	38.8	639.4	0.0	0.0
90.00		25.1	385.4					13.7	252.3	38.8	637.6	0.0	0.0
91.00		25.1	383.5					13.8	252.4	38.8	635.9	0.0	0.0
92.00		25.0	381.7					13.8	252.5	38.8	634.2	0.0	0.0
93.00	Top - Section 3	25.0	379.9					13.9	252.6	38.9	632.5	0.0	0.0
94.00		24.9	214.5					13.9	252.7	38.9	467.2	0.0	0.0
95.00		24.9	213.5					14.0	252.8	38.9	466.4	0.0	0.0
96.00		24.9	212.6					14.0	252.9	38.9	465.5	0.0	0.0
97.00		24.8	211.6					14.1	253.0	38.9	464.6	0.0	0.0
98.00		24.8	210.6					14.1	253.1	38.9	463.7	0.0	0.0
99.00		24.7	209.6					14.2	253.2	38.9	462.8	0.0	0.0
100.00		24.7	208.6					14.2	253.3	38.9	461.9	0.0	0.0
101.00		24.7	207.6					14.3	253.4	38.9	461.0	0.0	0.0

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:55:47 PM

Customer: AT&T Mobility

**Load Case: 1.2D + 1.0Di + 1.0Wi**

**50 mph with 0.75 in Radial Ice**

**34 Iterations**

**Gust Response Factor : 1.10**

**Ice Dead Load Factor : 1.00**

**Wind Importance Factor : 1.00**

**Dead Load Factor : 1.20**

**Ice Importance Factor : 1.00**

**Wind Load Factor : 1.00**

102.00		24.6	206.6					14.3	253.5	38.9	460.1	0.0	0.0
103.00		24.6	205.6					14.4	253.6	38.9	459.2	0.0	0.0
104.00		24.5	204.6					14.4	253.7	38.9	458.3	0.0	0.0
105.00	Reinf. Top	24.5	203.6					14.5	253.8	38.9	457.4	0.0	0.0
106.00		24.4	202.6					14.5	173.8	38.9	376.3	0.0	0.0
107.00		24.4	201.6					14.6	173.9	38.9	375.4	0.0	0.0
108.00		24.3	200.5					14.6	174.0	38.9	374.5	0.0	0.0
109.00		24.3	199.5					14.7	174.1	38.9	373.6	0.0	0.0
110.00		24.2	198.5					14.7	174.2	38.9	372.7	0.0	0.0
111.00		24.1	197.5					14.0	170.2	38.1	367.7	0.0	0.0
112.00		24.1	196.5					0.0	155.6	24.1	352.1	0.0	0.0
113.00		24.0	195.5					0.0	155.7	24.0	351.2	0.0	0.0
114.00		24.0	194.5					11.3	155.7	35.3	350.2	0.0	0.0
115.00		23.9	193.5					11.4	155.8	35.3	349.3	0.0	0.0
116.00		17.9	192.4					11.4	155.9	29.3	348.3	0.0	0.0
116.50	Bot - Section 5	12.0	95.9					5.7	78.0	17.7	173.9	0.0	0.0
117.00		18.1	146.1					5.7	78.0	23.8	224.1	0.0	0.0
118.00		24.1	290.9					11.5	156.0	35.5	446.9	0.0	0.0
119.00		24.0	289.3					11.5	156.1	35.5	445.4	0.0	0.0
120.00		23.9	287.7					11.5	156.2	35.5	443.9	0.0	0.0
121.00	Top - Section 4	23.9	286.1					11.6	156.2	35.4	442.4	0.0	0.0
122.00		23.8	165.4					11.6	155.1	35.4	320.5	0.0	0.0
123.00		23.7	164.5					11.6	155.2	35.4	319.7	0.0	0.0
124.00		23.7	163.6					11.7	155.3	35.3	318.9	0.0	0.0
125.00		23.6	162.7					11.7	155.3	35.3	318.0	0.0	0.0
126.00	Appertunance(s)	23.5	161.8	907.4	0.0	-130.9	7,139.2	11.7	155.4	942.7	7,456.4	0.0	0.0
127.00		23.5	160.9					11.8	139.3	35.2	300.2	0.0	0.0
128.00		23.4	160.1					11.8	139.4	35.2	299.4	0.0	0.0
129.00		23.3	159.2					11.8	139.4	35.1	298.6	0.0	0.0
130.00		23.3	158.3					11.9	139.5	35.1	297.8	0.0	0.0
131.00		23.2	157.4					11.9	139.6	35.1	296.9	0.0	0.0
132.00		23.1	156.5					11.9	139.6	35.0	296.1	0.0	0.0
133.00		23.0	155.6					11.9	139.7	35.0	295.3	0.0	0.0
134.00		23.0	154.7					12.0	139.8	34.9	294.5	0.0	0.0
135.00		22.9	153.8					12.0	139.8	34.9	293.6	0.0	0.0
136.00		22.8	152.9					12.0	139.9	34.8	292.8	0.0	0.0
137.00		22.7	152.0					12.1	139.9	34.8	292.0	0.0	0.0
138.00		22.6	151.1					12.1	140.0	34.7	291.1	0.0	0.0
139.00		22.6	150.2					12.1	140.1	34.7	290.3	0.0	0.0
140.00		22.5	149.3					12.2	140.1	34.6	289.5	0.0	0.0
141.00		22.4	148.4					12.2	140.2	34.6	288.6	0.0	0.0
142.00		22.3	147.5					12.2	140.3	34.5	287.8	0.0	0.0
143.00		22.2	146.6					12.3	140.3	34.5	286.9	0.0	0.0
144.00		22.1	145.7					12.3	140.4	34.4	286.1	0.0	0.0
145.00	Appertunance(s)	22.1	144.8	507.8	0.0	0.0	2,874.2	12.3	140.4	542.2	3,159.5	0.0	0.0
146.00		22.0	143.9					0.0	101.1	22.0	245.0	0.0	0.0
147.00		21.9	143.0					0.0	101.1	21.9	244.1	0.0	0.0
148.00		21.8	142.1					0.0	101.1	21.8	243.2	0.0	0.0
149.00	Bot - Section 6	21.9	141.2					0.0	101.2	21.9	242.4	0.0	0.0
150.00		21.9	203.2					0.0	101.2	21.9	304.4	0.0	0.0
151.00		21.8	201.8					0.0	101.3	21.8	303.1	0.0	0.0
152.00		16.3	200.5					0.0	101.3	16.3	301.8	0.0	0.0
152.50	Top - Section 5	10.8	99.8					0.0	50.7	10.8	150.5	0.0	0.0
153.00		16.2	59.7					0.0	50.7	16.2	110.4	0.0	0.0
154.00		21.5	118.8					0.0	101.4	21.5	220.2	0.0	0.0
155.00		21.5	118.0					0.0	101.4	21.5	219.4	0.0	0.0
156.00		21.4	117.2					0.0	101.5	21.4	218.7	0.0	0.0

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:55:47 PM

Customer: AT&T Mobility

**Load Case:** 1.2D + 1.0Di + 1.0Wi

50 mph with 0.75 in Radial Ice

34 Iterations

Gust Response Factor : 1.10

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Ice Importance Factor : 1.00

Wind Load Factor : 1.00

157.00		21.3	116.5					0.0	101.5	21.3	218.0	0.0	0.0
158.00		21.2	115.7					0.0	101.6	21.2	217.3	0.0	0.0
159.00		21.1	114.9					0.0	101.6	21.1	216.5	0.0	0.0
160.00		21.0	114.2					0.0	101.6	21.0	215.8	0.0	0.0
161.00		20.9	113.4					0.0	101.7	20.9	215.1	0.0	0.0
162.00		20.8	112.6					0.0	101.7	20.8	214.3	0.0	0.0
163.00		20.7	111.8					0.0	101.8	20.7	213.6	0.0	0.0
164.00		20.6	111.1					0.0	101.8	20.6	212.9	0.0	0.0
165.00		20.5	110.3					0.0	101.8	20.5	212.1	0.0	0.0
166.00		20.4	109.5					0.0	101.9	20.4	211.4	0.0	0.0
167.00	Appertunance(s)	20.3	108.7	860.8	0.0	-86.6	6,971.4	0.0	101.9	881.1	7,182.1	0.0	0.0
168.00		20.2	108.0					0.0	89.9	20.2	197.9	0.0	0.0
169.00		20.1	107.2					0.0	89.9	20.1	197.1	0.0	0.0
170.00		20.0	106.4					0.0	90.0	20.0	196.4	0.0	0.0
171.00		19.9	105.6					0.0	90.0	19.9	195.6	0.0	0.0
172.00		19.8	104.8					0.0	90.1	19.8	194.9	0.0	0.0
173.00		19.7	104.1					0.0	90.1	19.7	194.2	0.0	0.0
174.00		19.6	103.3					0.0	90.1	19.6	193.4	0.0	0.0
175.00	Appertunance(s)	19.5	102.5	101.7	0.0	0.0	455.0	8.9	90.2	130.1	647.7	0.0	0.0
176.00		19.4	101.7					0.0	62.1	19.4	163.8	0.0	0.0
177.00		19.3	100.9					0.0	62.1	19.3	163.1	0.0	0.0
178.00		19.2	100.2					0.0	62.2	19.2	162.3	0.0	0.0
179.00		19.1	99.4					0.0	62.2	19.1	161.6	0.0	0.0
180.00		19.0	98.6					0.0	62.2	19.0	160.8	0.0	0.0
181.00		18.9	97.8					0.0	62.2	18.9	160.0	0.0	0.0
182.00		18.7	97.0					0.0	62.3	18.7	159.3	0.0	0.0
183.00	Appertunance(s)	9.3	96.2	846.9	0.0	200.7	5,626.8	0.0	62.3	856.2	5,785.3	0.0	0.0
									<b>Totals:</b>	<b>8,638.26</b>	<b>106,012.</b>	<b>0.00</b>	<b>0.00</b>

**Load Case:** 1.2D + 1.0Di + 1.0Wi

50 mph with 0.75 in Radial Ice

34 Iterations

Gust Response Factor : 1.10

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Dead Load Factor : 1.20

Ice Importance Factor : 1.00

Wind Load Factor : 1.00

**Calculated Forces**

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-106.01	-8.63	0.00	-1,117.91	0.00	1,117.91	4,364.17	2,182.08	8,607.44	4,310.12	0.00	0.00	0.213
1.00	-105.55	-8.63	0.00	-1,109.28	0.00	1,109.28	4,348.30	2,174.15	8,544.66	4,278.68	0.00	-0.01	0.212
2.00	-105.07	-8.62	0.00	-1,100.65	0.00	1,100.65	4,332.44	2,166.22	8,482.10	4,247.36	0.00	-0.02	0.212
3.00	-104.60	-8.62	0.00	-1,092.03	0.00	1,092.03	4,316.57	2,158.29	8,419.78	4,216.15	0.01	-0.03	0.211
4.00	-104.12	-8.62	0.00	-1,083.41	0.00	1,083.41	4,300.71	2,150.36	8,357.68	4,185.05	0.02	-0.04	0.211
5.00	-103.65	-8.61	0.00	-1,074.79	0.00	1,074.79	4,284.85	2,142.42	8,295.82	4,154.08	0.03	-0.05	0.211
6.00	-103.03	-8.60	0.00	-1,066.18	0.00	1,066.18	4,268.98	2,134.49	8,234.19	4,123.21	0.04	-0.06	0.210
7.00	-102.42	-8.60	0.00	-1,057.58	0.00	1,057.58	4,253.12	2,126.56	8,172.78	4,092.46	0.06	-0.07	0.210
8.00	-101.80	-8.59	0.00	-1,048.98	0.00	1,048.98	4,237.26	2,118.63	8,111.60	4,061.83	0.07	-0.09	0.210
9.00	-101.19	-8.59	0.00	-1,040.39	0.00	1,040.39	4,221.39	2,110.70	8,050.66	4,031.31	0.09	-0.10	0.209
10.00	-100.57	-8.58	0.00	-1,031.80	0.00	1,031.80	4,205.53	2,102.76	7,989.95	4,000.91	0.11	-0.11	0.209
11.00	-99.96	-8.58	0.00	-1,023.22	0.00	1,023.22	4,189.66	2,094.83	7,929.46	3,970.62	0.14	-0.12	0.208
12.00	-99.34	-8.57	0.00	-1,014.64	0.00	1,014.64	4,173.80	2,086.90	7,869.20	3,940.45	0.16	-0.13	0.208
13.00	-98.73	-8.56	0.00	-1,006.07	0.00	1,006.07	4,157.94	2,078.97	7,809.18	3,910.39	0.19	-0.14	0.207
14.00	-98.11	-8.56	0.00	-997.50	0.00	997.50	4,142.07	2,071.04	7,749.38	3,880.45	0.22	-0.15	0.207
15.00	-97.50	-8.55	0.00	-988.95	0.00	988.95	4,126.21	2,063.10	7,689.82	3,850.62	0.25	-0.16	0.206
16.00	-96.88	-8.55	0.00	-980.39	0.00	980.39	4,110.34	2,055.17	7,630.48	3,820.91	0.29	-0.17	0.206
17.00	-96.27	-8.54	0.00	-971.85	0.00	971.85	4,094.48	2,047.24	7,571.37	3,791.31	0.32	-0.18	0.205
18.00	-95.65	-8.53	0.00	-963.31	0.00	963.31	4,078.62	2,039.31	7,512.50	3,761.83	0.36	-0.19	0.205
19.00	-95.04	-8.53	0.00	-954.78	0.00	954.78	4,062.75	2,031.38	7,453.85	3,732.47	0.41	-0.20	0.204
20.00	-94.43	-8.52	0.00	-946.25	0.00	946.25	4,046.89	2,023.44	7,395.44	3,703.21	0.45	-0.21	0.204
21.00	-93.82	-8.51	0.00	-937.74	0.00	937.74	4,031.02	2,015.51	7,337.25	3,674.08	0.50	-0.23	0.203
22.00	-93.21	-8.50	0.00	-929.23	0.00	929.23	4,015.16	2,007.58	7,279.29	3,645.06	0.54	-0.24	0.203
22.50	-92.90	-8.50	0.00	-924.97	0.00	924.97	4,007.23	2,003.61	7,250.40	3,630.59	0.57	-0.24	0.203
22.50	-92.90	-8.50	0.00	-924.97	0.00	924.97	4,007.23	2,003.61	7,250.40	3,630.59	0.57	-0.24	0.203
23.00	-92.59	-8.50	0.00	-920.72	0.00	920.72	3,999.30	1,999.65	7,221.56	3,616.15	0.60	-0.25	0.202
24.00	-91.98	-8.49	0.00	-912.23	0.00	912.23	3,983.43	1,991.72	7,164.07	3,587.36	0.65	-0.26	0.202
25.00	-91.38	-8.48	0.00	-903.74	0.00	903.74	3,967.57	1,983.78	7,106.80	3,558.68	0.70	-0.27	0.201
26.00	-90.77	-8.47	0.00	-895.26	0.00	895.26	3,951.70	1,975.85	7,049.76	3,530.12	0.76	-0.28	0.201
27.00	-90.16	-8.47	0.00	-886.79	0.00	886.79	3,935.84	1,967.92	6,992.95	3,501.67	0.82	-0.29	0.200
28.00	-89.55	-8.46	0.00	-878.32	0.00	878.32	3,919.98	1,959.99	6,936.37	3,473.34	0.88	-0.30	0.199
28.50	-89.25	-8.45	0.00	-874.09	0.00	874.09	3,912.04	1,956.02	6,908.17	3,459.22	0.92	-0.31	0.199
29.00	-88.80	-8.45	0.00	-869.86	0.00	869.86	3,904.11	1,952.06	6,880.03	3,445.13	0.95	-0.31	0.197
30.00	-87.91	-8.44	0.00	-861.42	0.00	861.42	3,888.25	1,944.12	6,823.91	3,417.03	1.02	-0.32	0.196
31.00	-87.02	-8.43	0.00	-852.98	0.00	852.98	3,872.38	1,936.19	6,768.02	3,389.04	1.08	-0.34	0.195
32.00	-86.13	-8.41	0.00	-844.55	0.00	844.55	3,856.52	1,928.26	6,712.36	3,361.17	1.16	-0.35	0.195
33.00	-85.25	-8.40	0.00	-836.14	0.00	836.14	3,840.66	1,920.33	6,656.93	3,333.41	1.23	-0.36	0.194
34.00	-84.36	-8.39	0.00	-827.74	0.00	827.74	3,824.79	1,912.40	6,601.73	3,305.77	1.31	-0.37	0.193
35.00	-83.48	-8.38	0.00	-819.35	0.00	819.35	3,809.62	1,904.81	6,546.12	3,278.16	1.38	-0.38	0.188
36.00	-82.87	-8.37	0.00	-810.97	0.00	810.97	3,883.76	1,941.88	6,808.07	3,409.09	1.47	-0.39	0.187
37.00	-82.27	-8.35	0.00	-802.61	0.00	802.61	3,867.90	1,933.95	6,752.24	3,381.14	1.55	-0.40	0.186
38.00	-81.66	-8.34	0.00	-794.26	0.00	794.26	3,852.03	1,926.02	6,696.65	3,353.30	1.63	-0.41	0.185
39.00	-81.06	-8.33	0.00	-785.92	0.00	785.92	3,836.17	1,918.08	6,641.29	3,325.58	1.72	-0.42	0.185
40.00	-80.45	-8.31	0.00	-777.59	0.00	777.59	3,820.30	1,910.15	6,586.15	3,297.97	1.81	-0.43	0.184
41.00	-79.85	-8.30	0.00	-769.28	0.00	769.28	3,804.44	1,902.22	6,531.25	3,270.48	1.90	-0.44	0.183
42.00	-79.25	-8.29	0.00	-760.98	0.00	760.98	3,788.58	1,894.29	6,476.57	3,243.10	2.00	-0.45	0.183
43.00	-78.65	-8.27	0.00	-752.69	0.00	752.69	3,772.71	1,886.36	6,422.13	3,215.84	2.09	-0.46	0.182
43.00	-78.65	-8.27	0.00	-752.69	0.00	752.69	3,772.71	1,886.36	6,422.13	3,215.84	2.09	-0.46	0.182
44.00	-78.05	-8.26	0.00	-744.42	0.00	744.42	3,756.85	1,878.42	6,367.91	3,188.69	2.19	-0.47	0.181
45.00	-77.45	-8.24	0.00	-736.16	0.00	736.16	3,740.98	1,870.49	6,313.93	3,161.66	2.29	-0.48	0.180
46.00	-76.85	-8.23	0.00	-727.92	0.00	727.92	3,725.12	1,862.56	6,260.17	3,134.74	2.39	-0.49	0.180

Site Number: 302535

Code: ANSI/TIA-222-G

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50 mph with 0.75 in Radial Ice

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47.00	-76.26	-8.21	0.00	-719.70	0.00	719.70	3,709.26	1,854.63	6,206.65	3,107.94	2.50	-0.51	0.179
48.00	-75.66	-8.20	0.00	-711.48	0.00	711.48	3,693.39	1,846.70	6,153.35	3,081.25	2.61	-0.52	0.178
49.00	-75.07	-8.18	0.00	-703.29	0.00	703.29	3,677.53	1,838.76	6,100.29	3,054.68	2.71	-0.53	0.177
50.00	-74.44	-8.14	0.00	-695.11	0.00	695.11	3,661.66	1,830.83	6,047.45	3,028.22	2.83	-0.54	0.176
51.00	-73.85	-8.13	0.00	-686.97	0.00	686.97	3,645.80	1,822.90	5,994.84	3,001.88	2.94	-0.55	0.175
52.00	-73.26	-8.11	0.00	-678.84	0.00	678.84	3,629.94	1,814.97	5,942.47	2,975.65	3.06	-0.56	0.175
53.00	-72.67	-8.09	0.00	-670.73	0.00	670.73	3,614.07	1,807.04	5,890.32	2,949.54	3.17	-0.57	0.174
54.00	-72.08	-8.07	0.00	-662.64	0.00	662.64	3,598.21	1,799.10	5,838.41	2,923.54	3.29	-0.58	0.173
55.00	-71.49	-8.05	0.00	-654.57	0.00	654.57	3,582.34	1,791.17	5,786.72	2,897.66	3.42	-0.59	0.172
56.00	-70.91	-8.02	0.00	-646.52	0.00	646.52	3,566.48	1,783.24	5,735.26	2,871.89	3.54	-0.60	0.171
57.00	-70.32	-7.99	0.00	-638.50	0.00	638.50	3,550.62	1,775.31	5,684.03	2,846.24	3.67	-0.61	0.170
58.00	-69.74	-7.96	0.00	-630.52	0.00	630.52	3,534.75	1,767.38	5,633.04	2,820.71	3.80	-0.62	0.169
59.00	-68.96	-7.92	0.00	-622.56	0.00	622.56	3,518.89	1,759.44	5,582.27	2,795.28	3.93	-0.63	0.167
60.00	-68.19	-7.89	0.00	-614.64	0.00	614.64	3,503.02	1,751.51	5,531.73	2,769.98	4.06	-0.64	0.166
61.00	-67.41	-7.86	0.00	-606.75	0.00	606.75	3,487.16	1,743.58	5,481.43	2,744.79	4.20	-0.65	0.165
62.00	-66.64	-7.82	0.00	-598.89	0.00	598.89	3,471.30	1,735.65	5,431.35	2,719.71	4.33	-0.66	0.164
63.00	-65.87	-7.79	0.00	-591.07	0.00	591.07	3,455.43	1,727.72	5,381.50	2,694.75	4.47	-0.67	0.163
63.50	-65.49	-7.78	0.00	-587.17	0.00	587.17	3,158.12	1,579.06	5,037.43	2,522.46	4.54	-0.68	0.160
64.00	-65.23	-7.76	0.00	-583.28	0.00	583.28	3,152.80	1,576.40	5,017.53	2,512.49	4.61	-0.68	0.160
65.00	-64.71	-7.73	0.00	-575.53	0.00	575.53	3,142.13	1,571.07	4,977.80	2,492.60	4.76	-0.69	0.159
66.00	-64.19	-7.70	0.00	-567.80	0.00	567.80	3,131.44	1,565.72	4,938.17	2,472.75	4.90	-0.70	0.157
67.00	-63.67	-7.67	0.00	-560.10	0.00	560.10	3,120.71	1,560.35	4,898.65	2,452.96	5.05	-0.72	0.156
68.00	-63.16	-7.63	0.00	-552.44	0.00	552.44	3,109.92	1,554.96	4,859.19	2,433.21	5.21	-0.73	0.155
69.00	-62.64	-7.60	0.00	-544.80	0.00	544.80	3,095.65	1,547.82	4,814.46	2,410.81	5.36	-0.74	0.154
70.00	-62.13	-7.57	0.00	-537.20	0.00	537.20	3,081.37	1,540.68	4,769.94	2,388.51	5.52	-0.75	0.153
71.00	-61.61	-7.54	0.00	-529.63	0.00	529.63	3,067.09	1,533.55	4,725.62	2,366.32	5.67	-0.76	0.152
72.00	-61.10	-7.51	0.00	-522.09	0.00	522.09	3,052.81	1,526.41	4,681.51	2,344.23	5.84	-0.77	0.151
73.00	-60.59	-7.47	0.00	-514.58	0.00	514.58	3,038.54	1,519.27	4,637.61	2,322.25	6.00	-0.79	0.150
74.00	-60.07	-7.44	0.00	-507.11	0.00	507.11	3,024.26	1,512.13	4,593.91	2,300.37	6.16	-0.80	0.149
75.00	-59.56	-7.41	0.00	-499.67	0.00	499.67	3,009.98	1,504.99	4,550.42	2,278.59	6.33	-0.81	0.147
76.00	-59.06	-7.38	0.00	-492.26	0.00	492.26	2,995.70	1,497.85	4,507.14	2,256.92	6.50	-0.82	0.146
77.00	-58.55	-7.34	0.00	-484.89	0.00	484.89	2,981.43	1,490.71	4,464.06	2,235.35	6.68	-0.83	0.145
78.00	-58.04	-7.31	0.00	-477.54	0.00	477.54	2,967.15	1,483.57	4,421.19	2,213.88	6.85	-0.84	0.144
79.00	-57.53	-7.27	0.00	-470.24	0.00	470.24	2,952.87	1,476.44	4,378.53	2,192.52	7.03	-0.85	0.143
80.00	-57.03	-7.24	0.00	-462.96	0.00	462.96	2,938.59	1,469.30	4,336.07	2,171.26	7.21	-0.87	0.142
81.00	-56.52	-7.20	0.00	-455.73	0.00	455.73	2,924.32	1,462.16	4,293.83	2,150.10	7.39	-0.88	0.141
82.00	-56.02	-7.17	0.00	-448.52	0.00	448.52	2,910.04	1,455.02	4,251.78	2,129.05	7.58	-0.89	0.139
83.00	-55.52	-7.13	0.00	-441.35	0.00	441.35	2,895.76	1,447.88	4,209.95	2,108.10	7.77	-0.90	0.138
84.00	-55.02	-7.10	0.00	-434.22	0.00	434.22	2,881.48	1,440.74	4,168.32	2,087.26	7.96	-0.91	0.137
85.00	-54.52	-7.06	0.00	-427.12	0.00	427.12	2,867.21	1,433.60	4,126.90	2,066.52	8.15	-0.92	0.136
86.00	-54.02	-7.03	0.00	-420.06	0.00	420.06	2,852.93	1,426.46	4,085.69	2,045.88	8.34	-0.93	0.135
87.00	-53.52	-6.99	0.00	-413.03	0.00	413.03	2,838.65	1,419.33	4,044.68	2,025.35	8.54	-0.94	0.133
88.00	-53.02	-6.95	0.00	-406.04	0.00	406.04	2,824.37	1,412.19	4,003.88	2,004.91	8.74	-0.95	0.132
89.00	-52.38	-6.91	0.00	-399.09	0.00	399.09	2,810.09	1,405.05	3,963.28	1,984.59	8.94	-0.97	0.129
90.00	-51.74	-6.87	0.00	-392.18	0.00	392.18	2,795.82	1,397.91	3,922.90	1,964.36	9.14	-0.98	0.128
91.00	-51.11	-6.83	0.00	-385.30	0.00	385.30	2,781.54	1,390.77	3,882.72	1,944.24	9.35	-0.99	0.127
92.00	-50.47	-6.79	0.00	-378.47	0.00	378.47	2,767.26	1,383.63	3,842.74	1,924.23	9.56	-1.00	0.126
93.00	-49.84	-6.75	0.00	-371.68	0.00	371.68	2,292.76	1,146.38	3,238.31	1,621.56	9.77	-1.01	0.139
94.00	-49.37	-6.71	0.00	-364.92	0.00	364.92	2,284.25	1,142.13	3,209.75	1,607.26	9.98	-1.02	0.137
95.00	-48.91	-6.68	0.00	-358.21	0.00	358.21	2,275.71	1,137.86	3,181.27	1,593.00	10.19	-1.03	0.135
96.00	-48.44	-6.64	0.00	-351.53	0.00	351.53	2,267.14	1,133.57	3,152.86	1,578.78	10.41	-1.04	0.134
97.00	-47.98	-6.60	0.00	-344.89	0.00	344.89	2,258.54	1,129.27	3,124.54	1,564.59	10.63	-1.05	0.132
98.00	-47.51	-6.56	0.00	-338.29	0.00	338.29	2,249.90	1,124.95	3,096.30	1,550.45	10.85	-1.06	0.130
99.00	-47.05	-6.52	0.00	-331.73	0.00	331.73	2,241.24	1,120.62	3,068.14	1,536.35	11.07	-1.07	0.129
100.00	-46.59	-6.48	0.00	-325.21	0.00	325.21	2,232.54	1,116.27	3,040.06	1,522.29	11.30	-1.08	0.127
101.00	-46.12	-6.45	0.00	-318.72	0.00	318.72	2,223.81	1,111.90	3,012.06	1,508.27	11.53	-1.09	0.125
102.00	-45.66	-6.41	0.00	-312.28	0.00	312.28	2,215.04	1,107.52	2,984.14	1,494.29	11.76	-1.10	0.123

<b>Load Case: 1.2D + 1.0Di + 1.0Wi</b>				<b>50 mph with 0.75 in Radial Ice</b>				<b>34 Iterations</b>			
Gust Response Factor : 1.10				Ice Dead Load Factor : 1.00				Wind Importance Factor : 1.00			
Dead Load Factor : 1.20								Ice Importance Factor : 1.00			
Wind Load Factor : 1.00											

103.00	-45.20	-6.37	0.00	-305.87	0.00	305.87	2,206.25	1,103.12	2,956.31	1,480.35	11.99	-1.12	0.122
104.00	-44.75	-6.33	0.00	-299.51	0.00	299.51	2,197.42	1,098.71	2,928.57	1,466.46	12.23	-1.13	0.120
105.00	-44.29	-6.29	0.00	-293.18	0.00	293.18	2,188.56	1,094.28	2,900.91	1,452.61	12.46	-1.14	0.118
105.00	-44.29	-6.29	0.00	-293.18	0.00	293.18	2,188.56	1,094.28	2,900.91	1,452.61	12.46	-1.14	0.222
106.00	-43.91	-6.25	0.00	-286.90	0.00	286.90	2,179.67	1,089.83	2,873.33	1,438.80	12.70	-1.15	0.220
107.00	-43.53	-6.22	0.00	-280.64	0.00	280.64	2,170.74	1,085.37	2,845.85	1,425.04	12.94	-1.17	0.217
108.00	-43.16	-6.19	0.00	-274.42	0.00	274.42	2,161.78	1,080.89	2,818.44	1,411.32	13.19	-1.18	0.214
109.00	-42.78	-6.16	0.00	-268.24	0.00	268.24	2,150.55	1,075.28	2,788.22	1,396.18	13.44	-1.20	0.212
110.00	-42.41	-6.12	0.00	-262.08	0.00	262.08	2,138.65	1,069.33	2,757.31	1,380.70	13.69	-1.22	0.210
111.00	-42.04	-6.09	0.00	-255.96	0.00	255.96	2,126.76	1,063.38	2,726.56	1,365.31	13.95	-1.24	0.207
112.00	-41.69	-6.07	0.00	-249.87	0.00	249.87	2,114.86	1,057.43	2,695.99	1,350.00	14.21	-1.26	0.205
113.00	-41.33	-6.05	0.00	-243.80	0.00	243.80	2,102.96	1,051.48	2,665.59	1,334.78	14.48	-1.28	0.202
114.00	-40.98	-6.02	0.00	-237.75	0.00	237.75	2,091.06	1,045.53	2,635.36	1,319.64	14.75	-1.30	0.200
115.00	-40.63	-5.99	0.00	-231.72	0.00	231.72	2,079.16	1,039.58	2,605.31	1,304.59	15.02	-1.32	0.197
116.00	-40.28	-5.97	0.00	-225.73	0.00	225.73	2,067.27	1,033.63	2,575.43	1,289.63	15.30	-1.33	0.195
116.50	-40.11	-5.95	0.00	-222.75	0.00	222.75	2,061.32	1,030.66	2,560.55	1,282.18	15.44	-1.34	0.193
117.00	-39.89	-5.93	0.00	-219.77	0.00	219.77	2,055.37	1,027.68	2,545.72	1,274.75	15.58	-1.35	0.192
118.00	-39.44	-5.90	0.00	-213.84	0.00	213.84	2,043.47	1,021.73	2,516.18	1,259.96	15.87	-1.37	0.189
119.00	-38.99	-5.86	0.00	-207.94	0.00	207.94	2,031.57	1,015.79	2,486.81	1,245.26	16.16	-1.39	0.186
120.00	-38.55	-5.83	0.00	-202.08	0.00	202.08	2,019.67	1,009.84	2,457.62	1,230.64	16.45	-1.41	0.183
121.00	-38.10	-5.79	0.00	-196.25	0.00	196.25	1,562.89	781.45	1,930.84	966.86	16.75	-1.42	0.227
122.00	-37.78	-5.76	0.00	-190.46	0.00	190.46	1,556.55	778.28	1,911.74	957.29	17.05	-1.44	0.223
123.00	-37.46	-5.73	0.00	-184.70	0.00	184.70	1,550.18	775.09	1,892.68	947.75	17.35	-1.46	0.219
124.00	-37.14	-5.70	0.00	-178.97	0.00	178.97	1,543.77	771.89	1,873.68	938.23	17.66	-1.48	0.215
125.00	-36.82	-5.67	0.00	-173.27	0.00	173.27	1,537.34	768.67	1,854.73	928.74	17.97	-1.50	0.211
126.00	-29.39	-4.54	0.00	-167.60	0.00	167.60	1,530.87	765.43	1,835.84	919.28	18.29	-1.52	0.202
127.00	-29.09	-4.51	0.00	-163.06	0.00	163.06	1,524.37	762.18	1,817.00	909.85	18.61	-1.54	0.198
128.00	-28.79	-4.47	0.00	-158.55	0.00	158.55	1,517.84	758.92	1,798.22	900.45	18.93	-1.56	0.195
129.00	-28.49	-4.44	0.00	-154.08	0.00	154.08	1,511.27	755.64	1,779.50	891.07	19.26	-1.57	0.192
130.00	-28.19	-4.40	0.00	-149.64	0.00	149.64	1,504.67	752.34	1,760.83	881.72	19.59	-1.59	0.188
131.00	-27.90	-4.37	0.00	-145.24	0.00	145.24	1,498.04	749.02	1,742.22	872.40	19.92	-1.61	0.185
132.00	-27.60	-4.34	0.00	-140.87	0.00	140.87	1,491.38	745.69	1,723.67	863.12	20.26	-1.63	0.182
133.00	-27.31	-4.30	0.00	-136.53	0.00	136.53	1,484.69	742.34	1,705.18	853.86	20.61	-1.65	0.178
134.00	-27.01	-4.26	0.00	-132.23	0.00	132.23	1,477.96	738.98	1,686.75	844.63	20.95	-1.66	0.175
135.00	-26.72	-4.23	0.00	-127.97	0.00	127.97	1,471.20	735.60	1,668.38	835.43	21.30	-1.68	0.171
136.00	-26.42	-4.19	0.00	-123.74	0.00	123.74	1,464.41	732.21	1,650.07	826.26	21.66	-1.70	0.168
137.00	-26.13	-4.16	0.00	-119.55	0.00	119.55	1,457.59	728.80	1,631.83	817.13	22.01	-1.71	0.164
138.00	-25.84	-4.12	0.00	-115.39	0.00	115.39	1,450.74	725.37	1,613.64	808.02	22.38	-1.73	0.161
139.00	-25.55	-4.09	0.00	-111.27	0.00	111.27	1,443.85	721.92	1,595.53	798.95	22.74	-1.75	0.157
140.00	-25.26	-4.05	0.00	-107.18	0.00	107.18	1,436.93	718.47	1,577.47	789.91	23.11	-1.76	0.153
141.00	-24.97	-4.01	0.00	-103.14	0.00	103.14	1,429.98	714.99	1,559.48	780.90	23.48	-1.78	0.150
142.00	-24.69	-3.98	0.00	-99.12	0.00	99.12	1,423.00	711.50	1,541.56	771.93	23.85	-1.79	0.146
143.00	-24.40	-3.94	0.00	-95.15	0.00	95.15	1,415.98	707.99	1,523.71	762.99	24.23	-1.81	0.142
144.00	-24.11	-3.90	0.00	-91.21	0.00	91.21	1,408.93	704.47	1,505.92	754.08	24.61	-1.82	0.138
145.00	-20.97	-3.26	0.00	-87.31	0.00	87.31	1,401.85	700.93	1,488.20	745.20	24.99	-1.84	0.132
146.00	-20.73	-3.24	0.00	-84.05	0.00	84.05	1,394.74	697.37	1,470.54	736.36	25.38	-1.85	0.129
147.00	-20.48	-3.21	0.00	-80.81	0.00	80.81	1,387.60	693.80	1,452.96	727.56	25.77	-1.86	0.126
148.00	-20.24	-3.19	0.00	-77.60	0.00	77.60	1,379.83	689.92	1,434.84	718.48	26.16	-1.88	0.123
149.00	-20.00	-3.16	0.00	-74.41	0.00	74.41	1,370.32	685.16	1,415.01	708.56	26.55	-1.89	0.120
150.00	-19.69	-3.14	0.00	-71.25	0.00	71.25	1,360.80	680.40	1,395.33	698.70	26.95	-1.90	0.116
151.00	-19.39	-3.11	0.00	-68.11	0.00	68.11	1,351.28	675.64	1,375.78	688.91	27.35	-1.92	0.113
152.00	-19.09	-3.08	0.00	-65.00	0.00	65.00	1,341.76	670.88	1,356.37	679.19	27.76	-1.93	0.110
152.50	-18.94	-3.07	0.00	-63.46	0.00	63.46	942.35	471.17	968.66	485.05	27.96	-1.94	0.151
153.00	-18.83	-3.05	0.00	-61.93	0.00	61.93	940.20	470.10	963.05	482.24	28.16	-1.94	0.148
154.00	-18.61	-3.03	0.00	-58.87	0.00	58.87	935.87	467.94	951.84	476.63	28.57	-1.96	0.143
155.00	-18.39	-3.01	0.00	-55.84	0.00	55.84	931.51	465.76	940.66	471.03	28.98	-1.97	0.138
156.00	-18.17	-2.98	0.00	-52.84	0.00	52.84	927.12	463.56	929.51	465.45	29.39	-1.98	0.133



Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:55:48 PM

Customer: AT&T Mobility

**Load Case:** 1.2D + 1.0Di + 1.0Wi

50 mph with 0.75 in Radial Ice

34 Iterations

Gust Response Factor : 1.10

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Ice Importance Factor : 1.00

Wind Load Factor : 1.00

157.00	-17.95	-2.96	0.00	-49.86	0.00	49.86	922.70	461.35	918.40	459.88	29.81	-2.00	0.128
158.00	-17.74	-2.93	0.00	-46.90	0.00	46.90	918.25	459.12	907.31	454.33	30.23	-2.01	0.123
159.00	-17.52	-2.91	0.00	-43.97	0.00	43.97	913.76	456.88	896.26	448.80	30.65	-2.02	0.117
160.00	-17.30	-2.88	0.00	-41.06	0.00	41.06	909.24	454.62	885.24	443.28	31.08	-2.03	0.112
161.00	-17.09	-2.86	0.00	-38.18	0.00	38.18	904.69	452.35	874.26	437.78	31.51	-2.05	0.106
162.00	-16.87	-2.83	0.00	-35.33	0.00	35.33	900.11	450.06	863.31	432.30	31.94	-2.06	0.101
163.00	-16.66	-2.81	0.00	-32.50	0.00	32.50	895.50	447.75	852.40	426.83	32.37	-2.07	0.095
164.00	-16.45	-2.78	0.00	-29.69	0.00	29.69	890.85	445.42	841.52	421.39	32.80	-2.08	0.089
165.00	-16.24	-2.75	0.00	-26.91	0.00	26.91	886.17	443.09	830.68	415.96	33.24	-2.09	0.083
166.00	-16.03	-2.73	0.00	-24.16	0.00	24.16	881.46	440.73	819.88	410.55	33.68	-2.09	0.077
167.00	-8.88	-1.59	0.00	-21.43	0.00	21.43	876.72	438.36	809.12	405.16	34.11	-2.10	0.063
168.00	-8.68	-1.56	0.00	-19.85	0.00	19.85	871.94	435.97	798.40	399.79	34.56	-2.11	0.060
169.00	-8.49	-1.53	0.00	-18.29	0.00	18.29	867.13	433.57	787.71	394.44	35.00	-2.11	0.056
170.00	-8.29	-1.51	0.00	-16.75	0.00	16.75	862.29	431.15	777.07	389.11	35.44	-2.12	0.053
171.00	-8.10	-1.48	0.00	-15.25	0.00	15.25	857.42	428.71	766.47	383.80	35.89	-2.13	0.049
172.00	-7.90	-1.45	0.00	-13.77	0.00	13.77	852.52	426.26	755.91	378.52	36.33	-2.13	0.046
173.00	-7.71	-1.43	0.00	-12.31	0.00	12.31	847.58	423.79	745.39	373.25	36.78	-2.14	0.042
174.00	-7.52	-1.40	0.00	-10.89	0.00	10.89	842.61	421.31	734.92	368.01	37.23	-2.14	0.039
175.00	-6.87	-1.25	0.00	-9.48	0.00	9.48	837.61	418.81	724.49	362.78	37.67	-2.14	0.034
176.00	-6.71	-1.22	0.00	-8.24	0.00	8.24	832.58	416.29	714.11	357.59	38.12	-2.15	0.031
177.00	-6.55	-1.20	0.00	-7.01	0.00	7.01	827.51	413.76	703.77	352.41	38.57	-2.15	0.028
178.00	-6.39	-1.17	0.00	-5.82	0.00	5.82	822.42	411.21	693.48	347.26	39.03	-2.15	0.025
179.00	-6.23	-1.15	0.00	-4.64	0.00	4.64	817.29	408.64	683.23	342.12	39.48	-2.16	0.021
180.00	-6.07	-1.12	0.00	-3.50	0.00	3.50	812.13	406.06	673.04	337.02	39.93	-2.16	0.018
181.00	-5.91	-1.10	0.00	-2.37	0.00	2.37	806.93	403.47	662.89	331.94	40.38	-2.16	0.014
182.00	-5.75	-1.07	0.00	-1.27	0.00	1.27	801.71	400.85	652.79	326.88	40.83	-2.16	0.011
183.00	0.00	-0.86	0.00	-0.20	0.00	0.20	796.45	398.23	642.74	321.85	41.29	-2.16	0.001

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:55:48 PM

Customer: AT&T Mobility

**Load Case:** 1.0D + 1.0W

Serviceability 60 mph

33 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

**Applied Segment Forces Summary**

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		9.0	0.0					0.0	0.0	9.0	0.0	0.0	0.0
1.00		18.0	259.4					0.0	66.8	18.0	326.2	0.0	0.0
2.00		17.9	258.4					0.0	66.8	17.9	325.2	0.0	0.0
3.00		17.8	257.5					0.0	66.8	17.8	324.3	0.0	0.0
4.00		17.8	256.5					0.0	66.8	17.8	323.3	0.0	0.0
5.00		17.7	255.6					0.0	66.8	17.7	322.4	0.0	0.0
6.00		17.6	254.7					0.0	136.2	17.6	390.8	0.0	0.0
7.00		17.6	253.7					0.0	136.2	17.6	389.9	0.0	0.0
8.00		17.5	252.8					0.0	136.2	17.5	388.9	0.0	0.0
9.00		17.4	251.8					0.0	136.2	17.4	388.0	0.0	0.0
10.00		17.4	250.9					0.0	136.2	17.4	387.1	0.0	0.0
11.00		17.3	249.9					0.0	136.2	17.3	386.1	0.0	0.0
12.00		17.2	249.0					0.0	136.2	17.2	385.2	0.0	0.0
13.00		17.2	248.0					0.0	136.2	17.2	384.2	0.0	0.0
14.00		17.1	247.1					0.0	136.2	17.1	383.3	0.0	0.0
15.00		17.1	246.2					0.0	136.2	17.1	382.3	0.0	0.0
16.00		17.0	245.2					0.0	136.2	17.0	381.4	0.0	0.0
17.00		16.9	244.3					0.0	136.2	16.9	380.4	0.0	0.0
18.00		16.9	243.3					0.0	136.2	16.9	379.5	0.0	0.0
19.00		16.8	242.4					0.0	136.2	16.8	378.6	0.0	0.0
20.00		16.7	241.4					0.0	136.2	16.7	377.6	0.0	0.0
21.00		16.7	240.5					0.0	136.2	16.7	376.7	0.0	0.0
22.00		12.5	239.5					0.0	136.2	12.5	375.7	0.0	0.0
22.50	Reinf. Top Reinf	8.3	119.4					0.0	68.1	8.3	187.5	0.0	0.0
23.00		12.4	119.2					0.0	68.1	12.4	187.3	0.0	0.0
24.00		16.5	237.7					0.0	136.2	16.5	373.8	0.0	0.0
25.00		16.4	236.7					0.0	136.2	16.4	372.9	0.0	0.0
26.00		16.3	235.8					0.0	136.2	16.3	371.9	0.0	0.0
27.00		16.3	234.8					0.0	136.2	16.3	371.0	0.0	0.0
28.00		12.2	233.9					0.0	136.2	12.2	370.1	0.0	0.0
28.50	Bot - Section 2	8.2	116.6					0.0	68.1	8.2	184.7	0.0	0.0
29.00		12.4	235.4					0.0	68.1	12.4	303.5	0.0	0.0
30.00		16.5	469.4					0.0	136.2	16.5	605.5	0.0	0.0
31.00		16.6	467.5					0.0	136.2	16.6	603.7	0.0	0.0
32.00		16.6	465.6					0.0	136.2	16.6	601.8	0.0	0.0
33.00		16.7	463.7					0.0	136.2	16.7	599.9	0.0	0.0
34.00		16.8	461.8					0.0	136.2	16.8	598.0	0.0	0.0
35.00	Top - Section 1	16.9	459.9					0.0	136.2	16.9	596.1	0.0	0.0
36.00		16.9	231.7					0.0	136.2	16.9	367.9	0.0	0.0
37.00		17.0	230.8					0.0	136.2	17.0	367.0	0.0	0.0
38.00		17.1	229.8					0.0	136.2	17.1	366.0	0.0	0.0
39.00		17.1	228.9					0.0	136.2	17.1	365.1	0.0	0.0
40.00		17.2	227.9					0.0	136.2	17.2	364.1	0.0	0.0
41.00		17.2	227.0					0.0	136.2	17.2	363.2	0.0	0.0
42.00		17.3	226.0					0.0	136.2	17.3	362.2	0.0	0.0
43.00	Reinf. Top Reinf	17.3	225.1					0.0	136.2	17.3	361.3	0.0	0.0
44.00		17.4	224.2					0.0	136.2	17.4	360.3	0.0	0.0
45.00		17.4	223.2					0.0	136.2	17.4	359.4	0.0	0.0

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:56:02 PM

Customer: AT&T Mobility

<b>Load Case: 1.0D + 1.0W</b>	<b>Serviceability 60 mph</b>				<b>33 Iterations</b>				
Gust Response Factor : 1.10					Wind Importance Factor : 1.00				
Dead Load Factor : 1.00									
Wind Load Factor : 1.00									

46.00		17.4	222.3					0.0	136.2	17.4	358.4	0.0	0.0
47.00		17.5	221.3					0.0	136.2	17.5	357.5	0.0	0.0
48.00		17.5	220.4					0.0	136.2	17.5	356.6	0.0	0.0
49.00		17.5	219.4					0.0	136.2	17.5	355.6	0.0	0.0
50.00	Appertunance(s)	17.6	218.5	20.0	0.0	0.0	75.6	0.0	136.2	37.5	430.3	0.0	0.0
51.00		17.6	217.5					0.0	136.2	17.6	353.7	0.0	0.0
52.00		17.6	216.6					0.0	136.2	17.6	352.8	0.0	0.0
53.00		17.6	215.7					0.0	136.2	17.6	351.8	0.0	0.0
54.00		25.1	214.7					0.0	136.2	25.1	350.9	0.0	0.0
55.00		32.6	213.8					6.5	136.2	39.1	349.9	0.0	0.0
56.00		32.6	212.8					6.6	136.2	39.2	349.0	0.0	0.0
57.00		32.6	211.9					6.6	136.2	39.2	348.1	0.0	0.0
58.00	Bot - Section 3	33.0	210.9					6.6	136.2	39.6	347.1	0.0	0.0
59.00		33.3	371.0					6.7	136.2	40.0	507.2	0.0	0.0
60.00		33.3	369.4					6.7	136.2	40.0	505.6	0.0	0.0
61.00		33.3	367.7					6.7	136.2	40.0	503.9	0.0	0.0
62.00		33.3	366.1					6.8	136.2	40.1	502.2	0.0	0.0
63.00		25.0	364.4					6.8	136.2	31.8	500.6	0.0	0.0
63.50	Top - Section 2	16.7	181.6					3.4	68.1	20.1	249.7	0.0	0.0
64.00		25.0	78.7					3.4	68.1	28.4	146.7	0.0	0.0
65.00		33.3	156.8					6.9	136.2	40.2	293.0	0.0	0.0
66.00		33.3	156.1					6.9	136.2	40.2	292.3	0.0	0.0
67.00		33.3	155.4					6.9	136.2	40.2	291.5	0.0	0.0
68.00		33.3	154.7					6.9	136.2	40.2	290.8	0.0	0.0
69.00		33.3	154.0					7.0	136.2	40.3	290.1	0.0	0.0
70.00		33.3	153.2					7.0	136.2	40.3	289.4	0.0	0.0
71.00		33.3	152.5					7.0	136.2	40.3	288.7	0.0	0.0
72.00		33.2	151.8					7.1	136.2	40.3	288.0	0.0	0.0
73.00		33.2	151.1					7.1	136.2	40.3	287.3	0.0	0.0
74.00		33.2	150.4					7.1	136.2	40.3	286.6	0.0	0.0
75.00		33.2	149.7					7.1	136.2	40.3	285.9	0.0	0.0
76.00		33.1	149.0					7.2	136.2	40.3	285.2	0.0	0.0
77.00		33.1	148.3					7.2	136.2	40.3	284.5	0.0	0.0
78.00		33.1	147.6					7.2	136.2	40.3	283.8	0.0	0.0
79.00		33.0	146.9					7.2	136.2	40.3	283.0	0.0	0.0
80.00		33.0	146.2					7.3	136.2	40.3	282.3	0.0	0.0
81.00		32.9	145.5					7.3	136.2	40.2	281.6	0.0	0.0
82.00		32.9	144.7					7.3	136.2	40.2	280.9	0.0	0.0
83.00		32.9	144.0					7.4	136.2	40.2	280.2	0.0	0.0
84.00		32.8	143.3					7.4	136.2	40.2	279.5	0.0	0.0
85.00		32.8	142.6					7.4	136.2	40.2	278.8	0.0	0.0
86.00		32.7	141.9					7.4	136.2	40.1	278.1	0.0	0.0
87.00		32.6	141.2					7.5	136.2	40.1	277.4	0.0	0.0
88.00	Bot - Section 4	32.9	140.5					7.5	136.2	40.4	276.7	0.0	0.0
89.00		33.1	258.6					7.5	136.2	40.6	394.8	0.0	0.0
90.00		33.1	257.3					7.5	136.2	40.6	393.5	0.0	0.0
91.00		33.0	256.0					7.5	136.2	40.5	392.2	0.0	0.0
92.00		32.9	254.7					7.6	136.2	40.5	390.9	0.0	0.0
93.00	Top - Section 3	32.9	253.4					7.6	136.2	40.5	389.6	0.0	0.0
94.00		32.8	115.9					7.6	136.2	40.4	252.0	0.0	0.0
95.00		32.7	115.3					7.6	136.2	40.4	251.4	0.0	0.0
96.00		32.7	114.7					7.7	136.2	40.3	250.9	0.0	0.0
97.00		32.6	114.1					7.7	136.2	40.3	250.3	0.0	0.0
98.00		32.5	113.5					7.7	136.2	40.2	249.7	0.0	0.0
99.00		32.5	112.9					7.7	136.2	40.2	249.1	0.0	0.0
100.00		32.4	112.3					7.8	136.2	40.1	248.5	0.0	0.0
101.00		32.3	111.7					7.8	136.2	40.1	247.9	0.0	0.0

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:56:02 PM

Customer: AT&T Mobility

<b>Load Case: 1.0D + 1.0W</b>	<b>Serviceability 60 mph</b>						<b>33 Iterations</b>			
Gust Response Factor : 1.10							Wind Importance Factor : 1.00			
Dead Load Factor : 1.00										
Wind Load Factor : 1.00										

102.00		32.2	111.1				7.8	136.2	40.0	247.3	0.0	0.0	
103.00		32.1	110.5				7.8	136.2	40.0	246.7	0.0	0.0	
104.00		32.1	110.0				7.8	136.2	39.9	246.1	0.0	0.0	
105.00	Reinf. Top	32.0	109.4				7.9	136.2	39.8	245.5	0.0	0.0	
106.00		31.9	108.8				7.9	69.4	39.8	178.2	0.0	0.0	
107.00		31.8	108.2				7.9	69.4	39.7	177.6	0.0	0.0	
108.00		31.7	107.6				7.9	69.4	39.6	177.0	0.0	0.0	
109.00		31.6	107.0				7.9	69.4	39.6	176.4	0.0	0.0	
110.00		31.5	106.4				8.0	69.4	39.5	175.8	0.0	0.0	
111.00		24.2	105.8				7.6	69.4	31.8	175.2	0.0	0.0	
112.00		17.0	105.2				0.0	69.4	17.0	174.6	0.0	0.0	
113.00		24.1	104.6				0.0	69.4	24.1	174.0	0.0	0.0	
114.00		31.2	104.0				6.3	69.4	37.4	173.4	0.0	0.0	
115.00		31.1	103.5				6.3	69.4	37.3	172.8	0.0	0.0	
116.00		23.2	102.9				6.3	69.4	29.5	172.2	0.0	0.0	
116.50	Bot - Section 5	15.6	51.2				3.1	34.7	18.7	85.9	0.0	0.0	
117.00		23.5	92.7				3.2	34.7	26.7	127.4	0.0	0.0	
118.00		31.3	184.6				6.3	69.4	37.6	253.9	0.0	0.0	
119.00		31.2	183.5				6.3	69.4	37.5	252.9	0.0	0.0	
120.00		31.1	182.4				6.3	69.4	37.4	251.8	0.0	0.0	
121.00	Top - Section 4	31.0	181.4				6.4	69.4	37.3	250.7	0.0	0.0	
122.00		30.8	81.0				6.4	68.4	37.2	149.4	0.0	0.0	
123.00		30.7	80.5				6.4	68.4	37.1	148.9	0.0	0.0	
124.00		30.6	80.0				6.4	68.4	37.0	148.4	0.0	0.0	
125.00		30.5	79.6				6.4	68.4	36.9	148.0	0.0	0.0	
126.00	Appertunance(s)	30.4	79.1	971.1	0.0	-143.0	2,862.6	6.4	68.4	1,008.0	3,010.1	0.0	0.0
127.00		30.3	78.6				6.5	54.9	36.8	133.5	0.0	0.0	
128.00		30.2	78.1				6.5	54.9	36.7	133.1	0.0	0.0	
129.00		30.1	77.7				6.5	54.9	36.6	132.6	0.0	0.0	
130.00		30.0	77.2				6.5	54.9	36.4	132.1	0.0	0.0	
131.00		29.8	76.7				6.5	54.9	36.3	131.6	0.0	0.0	
132.00		29.7	76.3				6.5	54.9	36.2	131.2	0.0	0.0	
133.00		29.6	75.8				6.5	54.9	36.1	130.7	0.0	0.0	
134.00		29.5	75.3				6.6	54.9	36.0	130.2	0.0	0.0	
135.00		29.4	74.8				6.6	54.9	35.9	129.7	0.0	0.0	
136.00		29.2	74.4				6.6	54.9	35.8	129.3	0.0	0.0	
137.00		29.1	73.9				6.6	54.9	35.7	128.8	0.0	0.0	
138.00		29.0	73.4				6.6	54.9	35.6	128.3	0.0	0.0	
139.00		28.9	73.0				6.6	54.9	35.5	127.9	0.0	0.0	
140.00		28.7	72.5				6.6	54.9	35.4	127.4	0.0	0.0	
141.00		28.6	72.0				6.6	54.9	35.3	126.9	0.0	0.0	
142.00		28.5	71.5				6.7	54.9	35.1	126.4	0.0	0.0	
143.00		28.3	71.1				6.7	54.9	35.0	126.0	0.0	0.0	
144.00		28.2	70.6				6.7	54.9	34.9	125.5	0.0	0.0	
145.00	Appertunance(s)	21.7	70.1	439.5	0.0	0.0	1,398.6	6.7	54.9	467.9	1,523.6	0.0	0.0
146.00		15.1	69.6				0.0	40.2	15.1	109.8	0.0	0.0	
147.00		15.1	69.2				0.0	40.2	15.1	109.3	0.0	0.0	
148.00		15.0	68.7				0.0	40.2	15.0	108.9	0.0	0.0	
149.00	Bot - Section 6	15.0	68.2				0.0	40.2	15.0	108.4	0.0	0.0	
150.00		15.1	119.5				0.0	40.2	15.1	159.6	0.0	0.0	
151.00		15.0	118.6				0.0	40.2	15.0	158.8	0.0	0.0	
152.00		11.2	117.8				0.0	40.2	11.2	158.0	0.0	0.0	
152.50	Top - Section 5	7.4	58.6				0.0	20.1	7.4	78.7	0.0	0.0	
153.00		11.1	25.3				0.0	20.1	11.1	45.4	0.0	0.0	
154.00		14.8	50.3				0.0	40.2	14.8	90.4	0.0	0.0	
155.00		14.7	49.9				0.0	40.2	14.7	90.1	0.0	0.0	
156.00		14.6	49.6				0.0	40.2	14.6	89.7	0.0	0.0	

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:56:02 PM

Customer: AT&T Mobility

**Load Case: 1.0D + 1.0W**

**Serviceability 60 mph**

**33 Iterations**

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

157.00		14.5	49.2					0.0	40.2	14.5	89.4	0.0	0.0
158.00		14.5	48.9					0.0	40.2	14.5	89.0	0.0	0.0
159.00		14.4	48.5					0.0	40.2	14.4	88.7	0.0	0.0
160.00		14.3	48.2					0.0	40.2	14.3	88.3	0.0	0.0
161.00		14.2	47.8					0.0	40.2	14.2	88.0	0.0	0.0
162.00		14.1	47.5					0.0	40.2	14.1	87.6	0.0	0.0
163.00		14.1	47.1					0.0	40.2	14.1	87.2	0.0	0.0
164.00		14.0	46.7					0.0	40.2	14.0	86.9	0.0	0.0
165.00		13.9	46.4					0.0	40.2	13.9	86.5	0.0	0.0
166.00		13.8	46.0					0.0	40.2	13.8	86.2	0.0	0.0
167.00	Appertunance(s)	13.7	45.7	887.4	0.0	-54.8	3,004.8	0.0	40.2	901.2	3,090.6	0.0	0.0
168.00		13.7	45.3					0.0	30.1	13.7	75.4	0.0	0.0
169.00		13.6	45.0					0.0	30.1	13.6	75.1	0.0	0.0
170.00		13.5	44.6					0.0	30.1	13.5	74.7	0.0	0.0
171.00		13.4	44.3					0.0	30.1	13.4	74.4	0.0	0.0
172.00		13.3	43.9					0.0	30.1	13.3	74.0	0.0	0.0
173.00		13.2	43.6					0.0	30.1	13.2	73.7	0.0	0.0
174.00		18.7	43.2					0.0	30.1	18.7	73.3	0.0	0.0
175.00	Appertunance(s)	18.6	42.8	117.8	0.0	0.0	79.2	4.9	30.1	141.2	152.2	0.0	0.0
176.00		13.0	42.5					0.0	25.2	13.0	67.7	0.0	0.0
177.00		12.9	42.1					0.0	25.2	12.9	67.3	0.0	0.0
178.00		12.8	41.8					0.0	25.2	12.8	67.0	0.0	0.0
179.00		12.7	41.4					0.0	25.2	12.7	66.6	0.0	0.0
180.00		12.6	41.1					0.0	25.2	12.6	66.3	0.0	0.0
181.00		12.5	40.7					0.0	25.2	12.5	65.9	0.0	0.0
182.00		12.4	40.4					0.0	25.2	12.4	65.6	0.0	0.0
183.00	Appertunance(s)	6.2	40.0	887.1	0.0	262.3	2,398.2	0.0	25.2	893.3	2,463.4	0.0	0.0
									<b>Totals:</b>	<b>8,279.04</b>	<b>56,948.1</b>	<b>0.00</b>	<b>0.00</b>

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:56:02 PM

Customer: AT&T Mobility

**Load Case: 1.0D + 1.0W**

Serviceability 60 mph

33 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

**Calculated Forces**

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-56.95	-8.27	0.00	-1,023.44	0.00	1,023.44	4,364.17	2,182.08	8,607.44	4,310.12	0.00	0.00	0.187
1.00	-56.62	-8.26	0.00	-1,015.16	0.00	1,015.16	4,348.30	2,174.15	8,544.66	4,278.68	0.00	-0.01	0.187
2.00	-56.29	-8.25	0.00	-1,006.90	0.00	1,006.90	4,332.44	2,166.22	8,482.10	4,247.36	0.00	-0.02	0.186
3.00	-55.97	-8.25	0.00	-998.65	0.00	998.65	4,316.57	2,158.29	8,419.78	4,216.15	0.01	-0.03	0.186
4.00	-55.64	-8.24	0.00	-990.40	0.00	990.40	4,300.71	2,150.36	8,357.68	4,185.05	0.02	-0.04	0.186
5.00	-55.32	-8.23	0.00	-982.16	0.00	982.16	4,284.85	2,142.42	8,295.82	4,154.08	0.03	-0.05	0.185
6.00	-54.93	-8.22	0.00	-973.93	0.00	973.93	4,268.98	2,134.49	8,234.19	4,123.21	0.04	-0.06	0.185
7.00	-54.54	-8.21	0.00	-965.71	0.00	965.71	4,253.12	2,126.56	8,172.78	4,092.46	0.05	-0.07	0.184
8.00	-54.15	-8.20	0.00	-957.50	0.00	957.50	4,237.26	2,118.63	8,111.60	4,061.83	0.07	-0.08	0.184
9.00	-53.76	-8.19	0.00	-949.30	0.00	949.30	4,221.39	2,110.70	8,050.66	4,031.31	0.08	-0.09	0.184
10.00	-53.37	-8.19	0.00	-941.10	0.00	941.10	4,205.53	2,102.76	7,989.95	4,000.91	0.10	-0.10	0.183
11.00	-52.98	-8.18	0.00	-932.92	0.00	932.92	4,189.66	2,094.83	7,929.46	3,970.62	0.12	-0.11	0.183
12.00	-52.59	-8.17	0.00	-924.74	0.00	924.74	4,173.80	2,086.90	7,869.20	3,940.45	0.15	-0.12	0.182
13.00	-52.21	-8.16	0.00	-916.57	0.00	916.57	4,157.94	2,078.97	7,809.18	3,910.39	0.17	-0.13	0.182
14.00	-51.82	-8.15	0.00	-908.42	0.00	908.42	4,142.07	2,071.04	7,749.38	3,880.45	0.20	-0.14	0.181
15.00	-51.44	-8.14	0.00	-900.27	0.00	900.27	4,126.21	2,063.10	7,689.82	3,850.62	0.23	-0.15	0.181
16.00	-51.06	-8.13	0.00	-892.13	0.00	892.13	4,110.34	2,055.17	7,630.48	3,820.91	0.26	-0.16	0.180
17.00	-50.67	-8.12	0.00	-884.00	0.00	884.00	4,094.48	2,047.24	7,571.37	3,791.31	0.30	-0.17	0.180
18.00	-50.29	-8.11	0.00	-875.87	0.00	875.87	4,078.62	2,039.31	7,512.50	3,761.83	0.33	-0.18	0.179
19.00	-49.91	-8.10	0.00	-867.76	0.00	867.76	4,062.75	2,031.38	7,453.85	3,732.47	0.37	-0.19	0.179
20.00	-49.54	-8.09	0.00	-859.66	0.00	859.66	4,046.89	2,023.44	7,395.44	3,703.21	0.41	-0.20	0.178
21.00	-49.16	-8.08	0.00	-851.56	0.00	851.56	4,031.02	2,015.51	7,337.25	3,674.08	0.45	-0.21	0.178
22.00	-48.78	-8.08	0.00	-843.48	0.00	843.48	4,015.16	2,007.58	7,279.29	3,645.06	0.50	-0.22	0.177
22.50	-48.59	-8.07	0.00	-839.44	0.00	839.44	4,007.23	2,003.61	7,250.40	3,630.59	0.52	-0.22	0.177
22.50	-48.59	-8.07	0.00	-839.44	0.00	839.44	4,007.23	2,003.61	7,250.40	3,630.59	0.52	-0.22	0.177
23.00	-48.40	-8.07	0.00	-835.41	0.00	835.41	3,999.30	1,999.65	7,221.56	3,616.15	0.54	-0.23	0.177
24.00	-48.03	-8.06	0.00	-827.34	0.00	827.34	3,983.43	1,991.72	7,164.07	3,587.36	0.59	-0.24	0.176
25.00	-47.65	-8.05	0.00	-819.29	0.00	819.29	3,967.57	1,983.78	7,106.80	3,558.68	0.64	-0.25	0.175
26.00	-47.28	-8.04	0.00	-811.24	0.00	811.24	3,951.70	1,975.85	7,049.76	3,530.12	0.69	-0.26	0.175
27.00	-46.91	-8.03	0.00	-803.20	0.00	803.20	3,935.84	1,967.92	6,992.95	3,501.67	0.75	-0.27	0.174
28.00	-46.54	-8.02	0.00	-795.18	0.00	795.18	3,919.98	1,959.99	6,936.37	3,473.34	0.81	-0.28	0.174
28.50	-46.35	-8.01	0.00	-791.17	0.00	791.17	3,912.04	1,956.02	6,908.17	3,459.22	0.84	-0.28	0.173
29.00	-46.05	-8.01	0.00	-787.16	0.00	787.16	3,904.11	1,952.06	6,880.03	3,445.13	0.87	-0.29	0.171
30.00	-45.44	-7.99	0.00	-779.16	0.00	779.16	3,888.25	1,944.12	6,823.91	3,417.03	0.93	-0.30	0.171
31.00	-44.84	-7.98	0.00	-771.16	0.00	771.16	3,872.38	1,936.19	6,768.02	3,389.04	0.99	-0.31	0.170
32.00	-44.23	-7.97	0.00	-763.18	0.00	763.18	3,856.52	1,928.26	6,712.36	3,361.17	1.05	-0.32	0.169
33.00	-43.63	-7.96	0.00	-755.21	0.00	755.21	3,840.66	1,920.33	6,656.93	3,333.41	1.12	-0.33	0.168
34.00	-43.03	-7.94	0.00	-747.25	0.00	747.25	3,824.79	1,912.40	6,601.73	3,305.77	1.19	-0.34	0.168
35.00	-42.44	-7.93	0.00	-739.31	0.00	739.31	3,809.62	1,909.81	6,546.12	3,277.16	1.26	-0.35	0.163
36.00	-42.07	-7.92	0.00	-731.38	0.00	731.38	3,883.76	1,941.88	6,808.07	3,409.09	1.34	-0.35	0.162
37.00	-41.70	-7.91	0.00	-723.46	0.00	723.46	3,867.90	1,933.95	6,752.24	3,381.14	1.41	-0.36	0.161
38.00	-41.33	-7.89	0.00	-715.55	0.00	715.55	3,852.03	1,926.02	6,696.65	3,353.30	1.49	-0.37	0.161
39.00	-40.97	-7.88	0.00	-707.66	0.00	707.66	3,836.17	1,918.08	6,641.29	3,325.58	1.57	-0.38	0.160
40.00	-40.60	-7.87	0.00	-699.78	0.00	699.78	3,820.30	1,910.15	6,586.15	3,297.97	1.65	-0.39	0.159
41.00	-40.24	-7.86	0.00	-691.91	0.00	691.91	3,804.44	1,902.22	6,531.25	3,270.48	1.73	-0.40	0.158
42.00	-39.87	-7.84	0.00	-684.05	0.00	684.05	3,788.58	1,894.29	6,476.57	3,243.10	1.82	-0.41	0.158
43.00	-39.51	-7.83	0.00	-676.21	0.00	676.21	3,772.71	1,886.36	6,422.13	3,215.84	1.90	-0.42	0.157
43.00	-39.51	-7.83	0.00	-676.21	0.00	676.21	3,772.71	1,886.36	6,422.13	3,215.84	1.90	-0.42	0.157
44.00	-39.15	-7.81	0.00	-668.39	0.00	668.39	3,756.85	1,878.42	6,367.91	3,188.69	1.99	-0.43	0.156
45.00	-38.79	-7.80	0.00	-660.57	0.00	660.57	3,740.98	1,870.49	6,313.93	3,161.66	2.09	-0.44	0.155
46.00	-38.43	-7.79	0.00	-652.77	0.00	652.77	3,725.12	1,862.56	6,260.17	3,134.74	2.18	-0.45	0.155

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:56:02 PM

Customer: AT&T Mobility

Load Case: 1.0D + 1.0W

Serviceability 60 mph

33 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

47.00	-38.07	-7.77	0.00	-644.98	0.00	644.98	3,709.26	1,854.63	6,206.65	3,107.94	2.27	-0.46	0.154
48.00	-37.71	-7.76	0.00	-637.21	0.00	637.21	3,693.39	1,846.70	6,153.35	3,081.25	2.37	-0.47	0.153
49.00	-37.35	-7.74	0.00	-629.45	0.00	629.45	3,677.53	1,838.76	6,100.29	3,054.68	2.47	-0.48	0.152
50.00	-36.92	-7.71	0.00	-621.71	0.00	621.71	3,661.66	1,830.83	6,047.45	3,028.22	2.57	-0.49	0.151
51.00	-36.57	-7.69	0.00	-614.00	0.00	614.00	3,645.80	1,822.90	5,994.84	3,001.88	2.67	-0.50	0.151
52.00	-36.22	-7.68	0.00	-606.30	0.00	606.30	3,629.94	1,814.97	5,942.47	2,975.65	2.78	-0.50	0.150
53.00	-35.86	-7.66	0.00	-598.62	0.00	598.62	3,614.07	1,807.04	5,890.32	2,949.54	2.89	-0.51	0.149
54.00	-35.51	-7.64	0.00	-590.96	0.00	590.96	3,598.21	1,799.10	5,838.41	2,923.54	2.99	-0.52	0.148
55.00	-35.16	-7.61	0.00	-583.32	0.00	583.32	3,582.34	1,791.17	5,786.72	2,897.66	3.10	-0.53	0.147
56.00	-34.81	-7.57	0.00	-575.71	0.00	575.71	3,566.48	1,783.24	5,735.26	2,871.89	3.22	-0.54	0.146
57.00	-34.46	-7.53	0.00	-568.14	0.00	568.14	3,550.62	1,775.31	5,684.03	2,846.24	3.33	-0.55	0.145
58.00	-34.11	-7.49	0.00	-560.61	0.00	560.61	3,534.75	1,767.38	5,633.04	2,820.71	3.45	-0.56	0.145
59.00	-33.60	-7.45	0.00	-553.12	0.00	553.12	3,518.89	1,759.44	5,582.27	2,795.28	3.57	-0.57	0.142
60.00	-33.10	-7.42	0.00	-545.66	0.00	545.66	3,503.02	1,751.51	5,531.73	2,769.98	3.69	-0.58	0.141
61.00	-32.59	-7.38	0.00	-538.25	0.00	538.25	3,487.16	1,743.58	5,481.43	2,744.79	3.81	-0.59	0.140
62.00	-32.09	-7.33	0.00	-530.87	0.00	530.87	3,471.30	1,735.65	5,431.35	2,719.71	3.93	-0.60	0.139
63.00	-31.59	-7.30	0.00	-523.54	0.00	523.54	3,455.43	1,727.72	5,381.50	2,694.75	4.06	-0.61	0.138
63.50	-31.34	-7.28	0.00	-519.89	0.00	519.89	3,158.12	1,579.06	5,037.43	2,522.46	4.12	-0.61	0.136
64.00	-31.19	-7.26	0.00	-516.25	0.00	516.25	3,152.80	1,576.40	5,017.53	2,512.49	4.19	-0.62	0.136
65.00	-30.90	-7.22	0.00	-508.99	0.00	508.99	3,142.13	1,571.07	4,977.80	2,492.60	4.32	-0.63	0.134
66.00	-30.61	-7.18	0.00	-501.77	0.00	501.77	3,131.44	1,565.72	4,938.17	2,472.75	4.45	-0.64	0.133
67.00	-30.31	-7.14	0.00	-494.59	0.00	494.59	3,120.71	1,560.35	4,898.65	2,452.96	4.58	-0.65	0.132
68.00	-30.02	-7.10	0.00	-487.45	0.00	487.45	3,109.92	1,554.96	4,859.19	2,433.21	4.72	-0.66	0.131
69.00	-29.73	-7.07	0.00	-480.35	0.00	480.35	3,095.65	1,547.82	4,814.46	2,410.81	4.86	-0.67	0.130
70.00	-29.44	-7.03	0.00	-473.28	0.00	473.28	3,081.37	1,540.68	4,769.94	2,388.51	5.00	-0.68	0.129
71.00	-29.15	-6.99	0.00	-466.26	0.00	466.26	3,067.09	1,533.55	4,725.62	2,366.32	5.14	-0.69	0.128
72.00	-28.86	-6.95	0.00	-459.27	0.00	459.27	3,052.81	1,526.41	4,681.51	2,344.23	5.29	-0.70	0.127
73.00	-28.57	-6.91	0.00	-452.32	0.00	452.32	3,038.54	1,519.27	4,637.61	2,322.25	5.44	-0.71	0.126
74.00	-28.29	-6.87	0.00	-445.41	0.00	445.41	3,024.26	1,512.13	4,593.91	2,300.37	5.59	-0.72	0.125
75.00	-28.00	-6.83	0.00	-438.54	0.00	438.54	3,009.98	1,504.99	4,550.42	2,278.59	5.74	-0.73	0.124
76.00	-27.71	-6.79	0.00	-431.70	0.00	431.70	2,995.70	1,497.85	4,507.14	2,256.92	5.89	-0.74	0.123
77.00	-27.43	-6.75	0.00	-424.91	0.00	424.91	2,981.43	1,490.71	4,464.06	2,235.35	6.05	-0.75	0.122
78.00	-27.15	-6.72	0.00	-418.16	0.00	418.16	2,967.15	1,483.57	4,421.19	2,213.88	6.20	-0.76	0.121
79.00	-26.86	-6.68	0.00	-411.44	0.00	411.44	2,952.87	1,476.44	4,378.53	2,192.52	6.36	-0.77	0.120
80.00	-26.58	-6.64	0.00	-404.76	0.00	404.76	2,938.59	1,469.30	4,336.07	2,171.26	6.53	-0.78	0.119
81.00	-26.30	-6.60	0.00	-398.13	0.00	398.13	2,924.32	1,462.16	4,293.83	2,150.10	6.69	-0.79	0.117
82.00	-26.01	-6.56	0.00	-391.53	0.00	391.53	2,910.04	1,455.02	4,251.78	2,129.05	6.86	-0.80	0.116
83.00	-25.73	-6.52	0.00	-384.97	0.00	384.97	2,895.76	1,447.88	4,209.95	2,108.10	7.02	-0.81	0.115
84.00	-25.45	-6.48	0.00	-378.46	0.00	378.46	2,881.48	1,440.74	4,168.32	2,087.26	7.19	-0.82	0.114
85.00	-25.17	-6.44	0.00	-371.98	0.00	371.98	2,867.21	1,433.60	4,126.90	2,066.52	7.37	-0.83	0.113
86.00	-24.90	-6.40	0.00	-365.54	0.00	365.54	2,852.93	1,426.46	4,085.69	2,045.88	7.54	-0.84	0.112
87.00	-24.62	-6.36	0.00	-359.14	0.00	359.14	2,838.65	1,419.33	4,044.68	2,025.35	7.72	-0.84	0.111
88.00	-24.34	-6.32	0.00	-352.79	0.00	352.79	2,824.37	1,412.19	4,003.88	2,004.91	7.89	-0.85	0.110
89.00	-23.95	-6.27	0.00	-346.47	0.00	346.47	2,810.09	1,405.05	3,963.28	1,984.59	8.07	-0.86	0.107
90.00	-23.55	-6.23	0.00	-340.19	0.00	340.19	2,795.82	1,397.91	3,922.90	1,964.36	8.26	-0.87	0.106
91.00	-23.16	-6.19	0.00	-333.96	0.00	333.96	2,781.54	1,390.77	3,882.72	1,944.24	8.44	-0.88	0.105
92.00	-22.77	-6.15	0.00	-327.77	0.00	327.77	2,767.26	1,383.63	3,842.74	1,924.23	8.63	-0.89	0.104
93.00	-22.38	-6.10	0.00	-321.63	0.00	321.63	2,292.76	1,146.38	3,238.31	1,621.56	8.81	-0.90	0.114
94.00	-22.13	-6.06	0.00	-315.52	0.00	315.52	2,284.25	1,142.13	3,209.75	1,607.26	9.00	-0.91	0.113
95.00	-21.87	-6.02	0.00	-309.46	0.00	309.46	2,275.71	1,137.86	3,181.27	1,593.00	9.19	-0.92	0.111
96.00	-21.62	-5.98	0.00	-303.44	0.00	303.44	2,267.14	1,133.57	3,152.86	1,578.78	9.39	-0.93	0.110
97.00	-21.37	-5.94	0.00	-297.46	0.00	297.46	2,258.54	1,129.27	3,124.54	1,564.59	9.58	-0.94	0.108
98.00	-21.12	-5.90	0.00	-291.52	0.00	291.52	2,249.90	1,124.95	3,096.30	1,550.45	9.78	-0.95	0.107
99.00	-20.87	-5.86	0.00	-285.62	0.00	285.62	2,241.24	1,120.62	3,068.14	1,536.35	9.98	-0.96	0.105
100.00	-20.63	-5.82	0.00	-279.76	0.00	279.76	2,232.54	1,116.27	3,040.06	1,522.29	10.18	-0.97	0.104
101.00	-20.38	-5.78	0.00	-273.94	0.00	273.94	2,223.81	1,111.90	3,012.06	1,508.27	10.39	-0.98	0.102
102.00	-20.13	-5.74	0.00	-268.17	0.00	268.17	2,215.04	1,107.52	2,984.14	1,494.29	10.59	-0.98	0.101

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

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Customer: AT&T Mobility

Load Case: 1.0D + 1.0W

Serviceability 60 mph

33 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

103.00	-19.88	-5.69	0.00	-262.43	0.00	262.43	2,206.25	1,103.12	2,956.31	1,480.35	10.80	-0.99	0.099
104.00	-19.64	-5.65	0.00	-256.74	0.00	256.74	2,197.42	1,098.71	2,928.57	1,466.46	11.01	-1.00	0.098
105.00	-19.39	-5.61	0.00	-251.09	0.00	251.09	2,188.56	1,094.28	2,900.91	1,452.61	11.22	-1.01	0.096
105.00	-19.39	-5.61	0.00	-251.09	0.00	251.09	2,188.56	1,094.28	2,900.91	1,452.61	11.22	-1.01	0.182
106.00	-19.21	-5.57	0.00	-245.47	0.00	245.47	2,179.67	1,089.83	2,873.33	1,438.80	11.43	-1.02	0.179
107.00	-19.03	-5.54	0.00	-239.90	0.00	239.90	2,170.74	1,085.37	2,845.85	1,425.04	11.65	-1.04	0.177
108.00	-18.86	-5.50	0.00	-234.37	0.00	234.37	2,161.78	1,080.89	2,818.44	1,411.32	11.87	-1.05	0.175
109.00	-18.68	-5.46	0.00	-228.87	0.00	228.87	2,150.55	1,075.28	2,788.22	1,396.18	12.09	-1.07	0.173
110.00	-18.50	-5.42	0.00	-223.41	0.00	223.41	2,138.65	1,069.33	2,757.31	1,380.70	12.31	-1.09	0.170
111.00	-18.33	-5.39	0.00	-217.98	0.00	217.98	2,126.76	1,063.38	2,726.56	1,365.31	12.54	-1.10	0.168
112.00	-18.15	-5.38	0.00	-212.59	0.00	212.59	2,114.86	1,057.43	2,695.99	1,350.00	12.78	-1.12	0.166
113.00	-17.98	-5.36	0.00	-207.21	0.00	207.21	2,102.96	1,051.48	2,665.59	1,334.78	13.01	-1.13	0.164
114.00	-17.80	-5.32	0.00	-201.86	0.00	201.86	2,091.06	1,045.53	2,635.36	1,319.64	13.25	-1.15	0.162
115.00	-17.63	-5.28	0.00	-196.54	0.00	196.54	2,079.16	1,039.58	2,605.31	1,304.59	13.49	-1.16	0.159
116.00	-17.46	-5.25	0.00	-191.25	0.00	191.25	2,067.27	1,033.63	2,575.43	1,289.63	13.74	-1.18	0.157
116.50	-17.37	-5.24	0.00	-188.63	0.00	188.63	2,061.32	1,030.66	2,560.55	1,282.18	13.86	-1.19	0.156
117.00	-17.24	-5.21	0.00	-186.01	0.00	186.01	2,055.37	1,027.68	2,545.72	1,274.75	13.99	-1.20	0.154
118.00	-16.99	-5.17	0.00	-180.80	0.00	180.80	2,043.47	1,021.73	2,516.18	1,259.96	14.24	-1.21	0.152
119.00	-16.73	-5.13	0.00	-175.63	0.00	175.63	2,031.57	1,015.79	2,486.81	1,245.26	14.49	-1.23	0.149
120.00	-16.48	-5.09	0.00	-170.50	0.00	170.50	2,019.67	1,009.84	2,457.62	1,230.64	14.75	-1.24	0.147
121.00	-16.23	-5.06	0.00	-165.40	0.00	165.40	1,562.89	781.45	1,930.84	966.86	15.01	-1.25	0.181
122.00	-16.08	-5.02	0.00	-160.35	0.00	160.35	1,556.55	778.28	1,911.74	957.29	15.28	-1.27	0.178
123.00	-15.93	-4.98	0.00	-155.33	0.00	155.33	1,550.18	775.09	1,892.68	947.75	15.55	-1.29	0.174
124.00	-15.78	-4.95	0.00	-150.34	0.00	150.34	1,543.77	771.89	1,873.68	938.23	15.82	-1.30	0.171
125.00	-15.63	-4.91	0.00	-145.39	0.00	145.39	1,537.34	768.67	1,854.73	928.74	16.09	-1.32	0.167
126.00	-12.65	-3.84	0.00	-140.48	0.00	140.48	1,530.87	765.43	1,835.84	919.28	16.37	-1.33	0.161
127.00	-12.51	-3.80	0.00	-136.64	0.00	136.64	1,524.37	762.18	1,817.00	909.85	16.65	-1.35	0.158
128.00	-12.38	-3.77	0.00	-132.84	0.00	132.84	1,517.84	758.92	1,798.22	900.45	16.94	-1.37	0.156
129.00	-12.25	-3.73	0.00	-129.08	0.00	129.08	1,511.27	755.64	1,779.50	891.07	17.22	-1.38	0.153
130.00	-12.11	-3.69	0.00	-125.35	0.00	125.35	1,504.67	752.34	1,760.83	881.72	17.52	-1.40	0.150
131.00	-11.98	-3.66	0.00	-121.66	0.00	121.66	1,498.04	749.02	1,742.22	872.40	17.81	-1.41	0.147
132.00	-11.85	-3.62	0.00	-118.00	0.00	118.00	1,491.38	745.69	1,723.67	863.12	18.11	-1.43	0.145
133.00	-11.72	-3.58	0.00	-114.38	0.00	114.38	1,484.69	742.34	1,705.18	853.86	18.41	-1.44	0.142
134.00	-11.59	-3.55	0.00	-110.80	0.00	110.80	1,477.96	738.98	1,686.75	844.63	18.71	-1.46	0.139
135.00	-11.46	-3.51	0.00	-107.25	0.00	107.25	1,471.20	735.60	1,668.38	835.43	19.02	-1.47	0.136
136.00	-11.33	-3.47	0.00	-103.74	0.00	103.74	1,464.41	732.21	1,650.07	826.26	19.33	-1.48	0.133
137.00	-11.20	-3.44	0.00	-100.27	0.00	100.27	1,457.59	728.80	1,631.83	817.13	19.64	-1.50	0.130
138.00	-11.08	-3.40	0.00	-96.83	0.00	96.83	1,450.74	725.37	1,613.64	808.02	19.95	-1.51	0.127
139.00	-10.95	-3.37	0.00	-93.43	0.00	93.43	1,443.85	721.92	1,595.53	798.95	20.27	-1.53	0.125
140.00	-10.82	-3.33	0.00	-90.06	0.00	90.06	1,436.93	718.47	1,577.47	789.91	20.59	-1.54	0.122
141.00	-10.69	-3.29	0.00	-86.73	0.00	86.73	1,429.98	714.99	1,559.48	780.90	20.92	-1.55	0.119
142.00	-10.57	-3.26	0.00	-83.44	0.00	83.44	1,423.00	711.50	1,541.56	771.93	21.24	-1.57	0.116
143.00	-10.44	-3.22	0.00	-80.18	0.00	80.18	1,415.98	707.99	1,523.71	762.99	21.57	-1.58	0.112
144.00	-10.32	-3.18	0.00	-76.96	0.00	76.96	1,408.93	704.47	1,505.92	754.08	21.91	-1.59	0.109
145.00	-8.81	-2.68	0.00	-73.78	0.00	73.78	1,401.85	700.93	1,488.20	745.20	22.24	-1.60	0.105
146.00	-8.70	-2.66	0.00	-71.10	0.00	71.10	1,394.74	697.37	1,470.54	736.36	22.58	-1.61	0.103
147.00	-8.59	-2.64	0.00	-68.44	0.00	68.44	1,387.60	693.80	1,452.96	727.56	22.92	-1.63	0.100
148.00	-8.48	-2.63	0.00	-65.80	0.00	65.80	1,379.83	689.92	1,434.84	718.48	23.26	-1.64	0.098
149.00	-8.37	-2.61	0.00	-63.17	0.00	63.17	1,370.32	685.16	1,415.01	708.56	23.60	-1.65	0.095
150.00	-8.21	-2.59	0.00	-60.56	0.00	60.56	1,360.80	680.40	1,395.33	698.70	23.95	-1.66	0.093
151.00	-8.05	-2.57	0.00	-57.97	0.00	57.97	1,351.28	675.64	1,375.78	688.91	24.30	-1.67	0.090
152.00	-7.89	-2.56	0.00	-55.39	0.00	55.39	1,341.76	670.88	1,356.37	679.19	24.65	-1.68	0.087
152.50	-7.81	-2.55	0.00	-54.11	0.00	54.11	942.35	471.17	968.66	485.05	24.83	-1.69	0.120
153.00	-7.77	-2.54	0.00	-52.84	0.00	52.84	940.20	470.10	963.05	482.24	25.00	-1.69	0.118
154.00	-7.68	-2.52	0.00	-50.30	0.00	50.30	935.87	467.94	951.84	476.63	25.36	-1.70	0.114
155.00	-7.59	-2.51	0.00	-47.77	0.00	47.77	931.51	465.76	940.66	471.03	25.72	-1.72	0.110
156.00	-7.50	-2.49	0.00	-45.26	0.00	45.26	927.12	463.56	929.51	465.45	26.08	-1.73	0.105



Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

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Customer: AT&T Mobility

**Load Case: 1.0D + 1.0W**

**Serviceability 60 mph**

**33 Iterations**

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

157.00	-7.41	-2.48	0.00	-42.77	0.00	42.77	922.70	461.35	918.40	459.88	26.44	-1.74	0.101
158.00	-7.32	-2.46	0.00	-40.30	0.00	40.30	918.25	459.12	907.31	454.33	26.81	-1.75	0.097
159.00	-7.23	-2.45	0.00	-37.83	0.00	37.83	913.76	456.88	896.26	448.80	27.17	-1.76	0.092
160.00	-7.14	-2.43	0.00	-35.39	0.00	35.39	909.24	454.62	885.24	443.28	27.54	-1.77	0.088
161.00	-7.06	-2.41	0.00	-32.96	0.00	32.96	904.69	452.35	874.26	437.78	27.92	-1.78	0.083
162.00	-6.97	-2.40	0.00	-30.55	0.00	30.55	900.11	450.06	863.31	432.30	28.29	-1.79	0.078
163.00	-6.88	-2.38	0.00	-28.15	0.00	28.15	895.50	447.75	852.40	426.83	28.67	-1.80	0.074
164.00	-6.79	-2.37	0.00	-25.77	0.00	25.77	890.85	445.42	841.52	421.39	29.04	-1.81	0.069
165.00	-6.71	-2.35	0.00	-23.40	0.00	23.40	886.17	443.09	830.68	415.96	29.42	-1.81	0.064
166.00	-6.62	-2.34	0.00	-21.05	0.00	21.05	881.46	440.73	819.88	410.55	29.80	-1.82	0.059
167.00	-3.56	-1.34	0.00	-18.71	0.00	18.71	876.72	438.36	809.12	405.16	30.19	-1.83	0.050
168.00	-3.49	-1.32	0.00	-17.38	0.00	17.38	871.94	435.97	798.40	399.79	30.57	-1.83	0.047
169.00	-3.41	-1.31	0.00	-16.06	0.00	16.06	867.13	433.57	787.71	394.44	30.95	-1.84	0.045
170.00	-3.34	-1.29	0.00	-14.75	0.00	14.75	862.29	431.15	777.07	389.11	31.34	-1.85	0.042
171.00	-3.26	-1.27	0.00	-13.46	0.00	13.46	857.42	428.71	766.47	383.80	31.73	-1.85	0.039
172.00	-3.19	-1.26	0.00	-12.19	0.00	12.19	852.52	426.26	755.91	378.52	32.12	-1.86	0.036
173.00	-3.12	-1.24	0.00	-10.93	0.00	10.93	847.58	423.79	745.39	373.25	32.50	-1.86	0.033
174.00	-3.04	-1.22	0.00	-9.68	0.00	9.68	842.61	421.31	734.92	368.01	32.89	-1.86	0.030
175.00	-2.90	-1.08	0.00	-8.46	0.00	8.46	837.61	418.81	724.49	362.78	33.28	-1.87	0.027
176.00	-2.83	-1.06	0.00	-7.38	0.00	7.38	832.58	416.29	714.11	357.59	33.68	-1.87	0.024
177.00	-2.76	-1.05	0.00	-6.32	0.00	6.32	827.51	413.76	703.77	352.41	34.07	-1.87	0.021
178.00	-2.70	-1.03	0.00	-5.28	0.00	5.28	822.42	411.21	693.48	347.26	34.46	-1.88	0.018
179.00	-2.63	-1.02	0.00	-4.24	0.00	4.24	817.29	408.64	683.23	342.12	34.85	-1.88	0.016
180.00	-2.56	-1.00	0.00	-3.23	0.00	3.23	812.13	406.06	673.04	337.02	35.25	-1.88	0.013
181.00	-2.50	-0.99	0.00	-2.22	0.00	2.22	806.93	403.47	662.89	331.94	35.64	-1.88	0.010
182.00	-2.43	-0.97	0.00	-1.24	0.00	1.24	801.71	400.85	652.79	326.88	36.04	-1.88	0.007
183.00	0.00	-0.89	0.00	-0.26	0.00	0.26	796.45	398.23	642.74	321.85	36.43	-1.88	0.001

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Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

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Customer: AT&T Mobility

### Equivalent Lateral Forces Method Analysis

(Based on ASCE7-10 Chapters 11, 12, 15)

Spectral Response Acceleration for Short Period ( $S_s$ ):	0.19
Spectral Response Acceleration at 1.0 Second Period ( $S_1$ ):	0.06
Long-Period Transition Period ( $T_L$ ):	6
Importance Factor ( $I_E$ ):	1.00
Site Coefficient $F_a$ :	1.60
Site Coefficient $F_v$ :	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period ( $S_{ds}$ ):	0.20
Design Spectral Response Acceleration at 1.0 Second Period ( $S_{d1}$ ):	0.10
Seismic Response Coefficient ( $C_s$ ):	0.03
Upper Limit $C_s$	0.03
Lower Limit $C_s$	0.03
Period based on Rayleigh Method (sec):	2.87
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	2.00
Total Unfactored Dead Load:	56.95 k
Seismic Base Shear (E):	2.22 k

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

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Customer: AT&T Mobility

### Equivalent Modal Forces Analysis

(Based on ASCE7-10 Chapters 11, 12 & 15 and ANSI/TIA-G, section 2.7)

Spectral Response Acceleration for Short Period ( $S_s$ ):	0.19
Spectral Response Acceleration at 1.0 Second Period ( $S_1$ ):	0.06
Importance Factor ( $I_E$ ):	1.00
Site Coefficient $F_a$ :	1.60
Site Coefficient $F_v$ :	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period ( $S_{ds}$ ):	0.20
Design Spectral Response Acceleration at 1.0 Second Period ( $S_{d1}$ ):	0.10
Period Based on Rayleigh Method (sec):	2.87
Redundancy Factor ( $\rho$ ):	1.30

#### Load Case (1.2 + 0.2Sds) \* DL + E ELM

#### Seismic Equivalent Lateral Forces Method

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
188	182.50	65	1.880	1.926	1.121	0.376	21	56
187	181.50	66	1.859	1.821	1.082	0.362	21	56
186	180.50	66	1.839	1.720	1.045	0.349	20	57
185	179.50	66	1.818	1.623	1.009	0.335	19	57
184	178.50	67	1.798	1.530	0.974	0.322	19	57
183	177.50	67	1.778	1.441	0.940	0.309	18	58
182	176.50	67	1.758	1.355	0.907	0.296	17	58
181	175.50	68	1.738	1.273	0.875	0.284	17	58
180	174.50	73	1.719	1.194	0.843	0.271	17	63
179	173.50	73	1.699	1.118	0.813	0.259	16	63
178	172.50	74	1.679	1.045	0.783	0.247	16	63
177	171.50	74	1.660	0.976	0.755	0.236	15	64
176	170.50	74	1.641	0.910	0.727	0.225	14	64
175	169.50	75	1.621	0.846	0.700	0.213	14	64
174	168.50	75	1.602	0.786	0.673	0.203	13	65
173	167.50	75	1.583	0.728	0.648	0.192	13	65
172	166.50	86	1.565	0.673	0.623	0.181	13	74
171	165.50	86	1.546	0.620	0.599	0.171	13	74
170	164.50	87	1.527	0.570	0.576	0.161	12	74
169	163.50	87	1.509	0.523	0.553	0.151	11	75
168	162.50	87	1.490	0.477	0.531	0.142	11	75
167	161.50	88	1.472	0.434	0.510	0.133	10	75
166	160.50	88	1.454	0.394	0.490	0.123	9	76
165	159.50	88	1.436	0.355	0.470	0.115	9	76
164	158.50	89	1.418	0.318	0.450	0.106	8	76
163	157.50	89	1.400	0.284	0.432	0.098	8	76
162	156.50	89	1.382	0.251	0.414	0.089	7	77
161	155.50	90	1.365	0.220	0.396	0.081	6	77
160	154.50	90	1.347	0.191	0.379	0.074	6	77
159	153.50	90	1.330	0.164	0.363	0.066	5	78
158	152.75	45	1.317	0.144	0.351	0.061	2	39
157	152.25	79	1.308	0.132	0.343	0.057	4	68
156	151.50	158	1.295	0.114	0.332	0.052	7	136
155	150.50	159	1.278	0.092	0.317	0.045	6	136

Site Number: 302535

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

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Customer: AT&T Mobility

154	149.50	160	1.261	0.070	0.303	0.038	5	137
153	148.50	108	1.245	0.051	0.289	0.032	3	93
152	147.50	109	1.228	0.033	0.276	0.025	2	94
151	146.50	109	1.211	0.016	0.263	0.019	2	94
150	145.50	110	1.195	0.000	0.251	0.014	1	94
149	144.50	125	1.178	-0.015	0.239	0.008	1	107
148	143.50	125	1.162	-0.028	0.228	0.003	0	108
147	142.50	126	1.146	-0.040	0.217	-0.003	0	108
146	141.50	126	1.130	-0.051	0.206	-0.008	-1	109
145	140.50	127	1.114	-0.062	0.196	-0.012	-1	109
144	139.50	127	1.098	-0.071	0.186	-0.017	-2	109
143	138.50	128	1.083	-0.079	0.176	-0.021	-2	110
142	137.50	128	1.067	-0.087	0.167	-0.025	-3	110
141	136.50	129	1.052	-0.093	0.158	-0.029	-3	111
140	135.50	129	1.036	-0.099	0.150	-0.033	-4	111
139	134.50	130	1.021	-0.104	0.142	-0.036	-4	111
138	133.50	130	1.006	-0.108	0.134	-0.040	-4	112
137	132.50	131	0.991	-0.112	0.127	-0.043	-5	112
136	131.50	131	0.976	-0.115	0.120	-0.045	-5	113
135	130.50	132	0.961	-0.117	0.113	-0.048	-5	113
134	129.50	132	0.946	-0.119	0.106	-0.050	-6	114
133	128.50	133	0.932	-0.121	0.100	-0.053	-6	114
132	127.50	133	0.917	-0.121	0.094	-0.055	-6	114
131	126.50	134	0.903	-0.122	0.089	-0.056	-7	115
130	125.50	147	0.889	-0.122	0.083	-0.058	-7	127
129	124.50	148	0.875	-0.121	0.078	-0.059	-8	127
128	123.50	148	0.861	-0.120	0.073	-0.060	-8	128
127	122.50	149	0.847	-0.119	0.068	-0.061	-8	128
126	121.50	149	0.833	-0.117	0.064	-0.062	-8	128
125	120.50	251	0.819	-0.115	0.060	-0.062	-13	215
124	119.50	252	0.806	-0.113	0.056	-0.062	-14	216
123	118.50	253	0.792	-0.110	0.052	-0.062	-14	217
122	117.50	254	0.779	-0.108	0.048	-0.062	-14	218
121	116.75	127	0.769	-0.106	0.045	-0.061	-7	109
120	116.25	86	0.763	-0.104	0.044	-0.061	-5	74
119	115.50	172	0.753	-0.102	0.041	-0.061	-9	148
118	114.50	173	0.740	-0.098	0.038	-0.060	-9	149
117	113.50	173	0.727	-0.095	0.035	-0.058	-9	149
116	112.50	174	0.714	-0.091	0.033	-0.057	-9	150
115	111.50	175	0.702	-0.087	0.030	-0.055	-8	150
114	110.50	175	0.689	-0.084	0.028	-0.054	-8	151
113	109.50	176	0.677	-0.080	0.026	-0.052	-8	151
112	108.50	176	0.664	-0.075	0.023	-0.049	-8	152
111	107.50	177	0.652	-0.071	0.022	-0.047	-7	152
110	106.50	178	0.640	-0.067	0.020	-0.044	-7	153
109	105.50	178	0.628	-0.063	0.018	-0.041	-6	153
108	104.50	246	0.616	-0.059	0.016	-0.038	-8	211
107	103.50	246	0.605	-0.055	0.015	-0.035	-8	211
106	102.50	247	0.593	-0.050	0.014	-0.032	-7	212
105	101.50	247	0.581	-0.046	0.013	-0.029	-6	213
104	100.50	248	0.570	-0.042	0.012	-0.025	-5	213
103	99.50	248	0.559	-0.038	0.011	-0.022	-5	214
102	98.50	249	0.548	-0.034	0.010	-0.018	-4	214
101	97.50	250	0.536	-0.030	0.009	-0.014	-3	215
100	96.50	250	0.526	-0.025	0.008	-0.010	-2	215
99	95.50	251	0.515	-0.022	0.008	-0.007	-1	216
98	94.50	251	0.504	-0.018	0.007	-0.003	-1	216
97	93.50	252	0.493	-0.014	0.007	0.001	0	217
96	92.50	390	0.483	-0.010	0.006	0.005	2	335
95	91.50	391	0.472	-0.006	0.006	0.008	3	336
94	90.50	392	0.462	-0.003	0.006	0.012	4	337
93	89.50	393	0.452	0.001	0.006	0.015	5	338
92	88.50	395	0.442	0.004	0.006	0.019	6	339
91	87.50	277	0.432	0.008	0.006	0.022	5	238

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

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Customer: AT&T Mobility

90	86.50	277	0.422	0.011	0.006	0.025	6	238
89	85.50	278	0.413	0.014	0.006	0.028	7	239
88	84.50	279	0.403	0.017	0.006	0.031	8	240
87	83.50	280	0.393	0.020	0.007	0.034	8	240
86	82.50	280	0.384	0.023	0.007	0.037	9	241
85	81.50	281	0.375	0.026	0.007	0.039	9	241
84	80.50	282	0.366	0.028	0.008	0.041	10	242
83	79.50	282	0.357	0.031	0.008	0.043	11	243
82	78.50	283	0.348	0.033	0.009	0.045	11	243
81	77.50	284	0.339	0.036	0.009	0.047	12	244
80	76.50	284	0.330	0.038	0.010	0.049	12	244
79	75.50	285	0.322	0.040	0.011	0.051	12	245
78	74.50	286	0.313	0.042	0.011	0.052	13	246
77	73.50	287	0.305	0.044	0.012	0.053	13	246
76	72.50	287	0.297	0.046	0.013	0.054	14	247
75	71.50	288	0.289	0.048	0.013	0.055	14	247
74	70.50	289	0.281	0.049	0.014	0.056	14	248
73	69.50	289	0.273	0.051	0.015	0.057	14	249
72	68.50	290	0.265	0.053	0.016	0.058	15	249
71	67.50	291	0.257	0.054	0.016	0.059	15	250
70	66.50	292	0.250	0.055	0.017	0.059	15	251
69	65.50	292	0.242	0.057	0.018	0.060	15	251
68	64.50	293	0.235	0.058	0.019	0.060	15	252
67	63.75	147	0.229	0.059	0.019	0.060	8	126
66	63.25	250	0.226	0.059	0.020	0.060	13	215
65	62.50	501	0.220	0.060	0.021	0.060	26	430
64	61.50	502	0.213	0.061	0.021	0.061	26	432
63	60.50	504	0.207	0.062	0.022	0.061	27	433
62	59.50	506	0.200	0.063	0.023	0.061	27	434
61	58.50	507	0.193	0.064	0.024	0.061	27	436
60	57.50	347	0.187	0.064	0.025	0.061	18	298
59	56.50	348	0.180	0.065	0.026	0.061	18	299
58	55.50	349	0.174	0.066	0.027	0.061	18	300
57	54.50	350	0.168	0.066	0.028	0.061	18	301
56	53.50	351	0.162	0.067	0.028	0.061	18	302
55	52.50	352	0.156	0.067	0.029	0.060	18	302
54	51.50	353	0.150	0.068	0.030	0.060	18	303
53	50.50	354	0.144	0.068	0.031	0.060	18	304
52	49.50	355	0.138	0.069	0.032	0.060	18	305
51	48.50	356	0.133	0.069	0.033	0.060	18	306
50	47.50	357	0.127	0.070	0.033	0.059	18	306
49	46.50	358	0.122	0.070	0.034	0.059	18	307
48	45.50	358	0.117	0.070	0.035	0.059	18	308
47	44.50	359	0.112	0.070	0.036	0.059	18	309
46	43.50	360	0.107	0.071	0.036	0.059	18	310
45	42.50	361	0.102	0.071	0.037	0.058	18	310
44	41.50	362	0.097	0.071	0.038	0.058	18	311
43	40.50	363	0.093	0.071	0.038	0.058	18	312
42	39.50	364	0.088	0.071	0.039	0.058	18	313
41	38.50	365	0.084	0.072	0.039	0.057	18	314
40	37.50	366	0.079	0.072	0.040	0.057	18	314
39	36.50	367	0.075	0.072	0.040	0.057	18	315
38	35.50	368	0.071	0.072	0.040	0.057	18	316
37	34.50	596	0.067	0.072	0.041	0.057	29	512
36	33.50	598	0.063	0.072	0.041	0.056	29	514
35	32.50	600	0.060	0.072	0.041	0.056	29	515
34	31.50	602	0.056	0.071	0.042	0.056	29	517
33	30.50	604	0.053	0.071	0.042	0.056	29	519
32	29.50	606	0.049	0.071	0.042	0.055	29	520
31	28.75	303	0.047	0.071	0.042	0.055	14	261
30	28.25	185	0.045	0.071	0.042	0.055	9	159
29	27.50	370	0.043	0.070	0.042	0.055	18	318
28	26.50	371	0.040	0.070	0.042	0.054	17	319
27	25.50	372	0.037	0.070	0.041	0.054	17	320

Site Number: 302535

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

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26	24.50	373	0.034	0.069	0.041	0.054	17	320
25	23.50	374	0.031	0.068	0.041	0.053	17	321
24	22.75	187	0.029	0.068	0.040	0.053	9	161
23	22.25	188	0.028	0.068	0.040	0.053	9	161
22	21.50	376	0.026	0.067	0.040	0.052	17	323
21	20.50	377	0.024	0.066	0.039	0.052	17	324
20	19.50	378	0.021	0.065	0.038	0.051	17	324
19	18.50	379	0.019	0.064	0.038	0.050	17	325
18	17.50	379	0.017	0.062	0.037	0.050	16	326
17	16.50	380	0.015	0.061	0.036	0.049	16	327
16	15.50	381	0.014	0.059	0.035	0.048	16	328
15	14.50	382	0.012	0.057	0.033	0.047	16	329
14	13.50	383	0.010	0.055	0.032	0.046	15	329
13	12.50	384	0.009	0.053	0.031	0.044	15	330
12	11.50	385	0.007	0.051	0.029	0.043	14	331
11	10.50	386	0.006	0.048	0.027	0.041	14	332
10	9.50	387	0.005	0.045	0.025	0.039	13	333
9	8.50	388	0.004	0.042	0.023	0.037	12	333
8	7.50	389	0.003	0.038	0.021	0.034	12	334
7	6.50	390	0.002	0.034	0.019	0.032	11	335
6	5.50	391	0.002	0.030	0.016	0.029	10	336
5	4.50	322	0.001	0.025	0.014	0.025	7	277
4	3.50	323	0.001	0.021	0.011	0.021	6	278
3	2.50	324	0.000	0.015	0.008	0.016	4	279
2	1.50	325	0.000	0.009	0.005	0.010	3	279
1	0.50	326	0.000	0.003	0.002	0.004	1	280
DragonWave Horizon C	183.00	21	1.890	1.980	1.140	0.384	7	18
NextNet BTS-2500	183.00	105	1.890	1.980	1.140	0.384	35	90
Decibel DB844H90E-XY	183.00	84	1.890	1.980	1.140	0.384	28	72
Argus LLPX310R	183.00	86	1.890	1.980	1.140	0.384	29	74
DragonWave A-ANT-18G	183.00	54	1.890	1.980	1.140	0.384	18	47
Andrew 844G65VTZASX	183.00	48	1.890	1.980	1.140	0.384	16	41
Flat Platform w/ Han	183.00	2,000	1.890	1.980	1.140	0.384	665	1,719
RFS APXV18-206517S-C	175.00	79	1.728	1.233	0.859	0.278	19	68
Powerwave Allgon LGP	167.00	85	1.574	0.700	0.635	0.187	14	73
Raycap DC6-48-60-18-	167.00	40	1.574	0.700	0.635	0.187	6	34
Ericsson RRUS 11 (Ba	167.00	264	1.574	0.700	0.635	0.187	43	227
Ericsson RRUS-32	167.00	231	1.574	0.700	0.635	0.187	37	198
KMW AM-X-CD-14-65-00	167.00	73	1.574	0.700	0.635	0.187	12	63
KMW AM-X-CD-14-65-00	167.00	36	1.574	0.700	0.635	0.187	6	31
Powerwave Allgon 777	167.00	105	1.574	0.700	0.635	0.187	17	90
CCI OPA-65R-LCUU-H4	167.00	171	1.574	0.700	0.635	0.187	28	147
Flat Platform w/ Han	167.00	2,000	1.574	0.700	0.635	0.187	323	1,719
Kathrein Scala Smart	145.00	10	1.187	-0.008	0.245	0.011	0	9
Andrew ETW200VS12UB	145.00	33	1.187	-0.008	0.245	0.011	0	28
Andrew ETW190VS12UB	145.00	33	1.187	-0.008	0.245	0.011	0	28
Andrew SBNHH-1D65A	145.00	123	1.187	-0.008	0.245	0.011	1	105
Flat Light Sector Fr	145.00	1,200	1.187	-0.008	0.245	0.011	11	1,031
RFS FD9R6004/1C-3L	126.00	19	0.896	-0.122	0.086	-0.057	-1	16
Alcatel-Lucent RRH2X	126.00	138	0.896	-0.122	0.086	-0.057	-7	119
Alcatel-Lucent RRH2X	126.00	132	0.896	-0.122	0.086	-0.057	-7	113
Alcatel-Lucent RRH2x	126.00	132	0.896	-0.122	0.086	-0.057	-7	113
RFS DB-T1-6Z-8AB-0Z	126.00	44	0.896	-0.122	0.086	-0.057	-2	38
RFS DB-T1-6Z-8AB-0Z	126.00	44	0.896	-0.122	0.086	-0.057	-2	38
Andrew HBXX-6516DS-A	126.00	92	0.896	-0.122	0.086	-0.057	-5	79
Andrew LNX-4514DS-A1	126.00	89	0.896	-0.122	0.086	-0.057	-4	76
Antel BXA-80063/6CF	126.00	45	0.896	-0.122	0.086	-0.057	-2	38
Andrew HBXX-6517DS-A	126.00	129	0.896	-0.122	0.086	-0.057	-6	111
Flat Platform w/ Han	126.00	2,000	0.896	-0.122	0.086	-0.057	-99	1,719
Thales PCS VP/360/2	50.00	1	0.141	0.069	0.031	0.060	0	1
Stand-Off	50.00	75	0.141	0.069	0.031	0.060	4	64
		56,948	162.864	47.221	46.651	13.260	2,746	48,933

**Load Case (1.2 + 0.2Sds) \* DL + E EMAM**

**Seismic Equivalent Modal Analysis Method**

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
188	182.50	65	1.880	1.926	1.121	0.376	21	56
187	181.50	66	1.859	1.821	1.082	0.362	21	56
186	180.50	66	1.839	1.720	1.045	0.349	20	57
185	179.50	66	1.818	1.623	1.009	0.335	19	57
184	178.50	67	1.798	1.530	0.974	0.322	19	57
183	177.50	67	1.778	1.441	0.940	0.309	18	58
182	176.50	67	1.758	1.355	0.907	0.296	17	58
181	175.50	68	1.738	1.273	0.875	0.284	17	58
180	174.50	73	1.719	1.194	0.843	0.271	17	63
179	173.50	73	1.699	1.118	0.813	0.259	16	63
178	172.50	74	1.679	1.045	0.783	0.247	16	63
177	171.50	74	1.660	0.976	0.755	0.236	15	64
176	170.50	74	1.641	0.910	0.727	0.225	14	64
175	169.50	75	1.621	0.846	0.700	0.213	14	64
174	168.50	75	1.602	0.786	0.673	0.203	13	65
173	167.50	75	1.583	0.728	0.648	0.192	13	65
172	166.50	86	1.565	0.673	0.623	0.181	13	74
171	165.50	86	1.546	0.620	0.599	0.171	13	74
170	164.50	87	1.527	0.570	0.576	0.161	12	74
169	163.50	87	1.509	0.523	0.553	0.151	11	75
168	162.50	87	1.490	0.477	0.531	0.142	11	75
167	161.50	88	1.472	0.434	0.510	0.133	10	75
166	160.50	88	1.454	0.394	0.490	0.123	9	76
165	159.50	88	1.436	0.355	0.470	0.115	9	76
164	158.50	89	1.418	0.318	0.450	0.106	8	76
163	157.50	89	1.400	0.284	0.432	0.098	8	76
162	156.50	89	1.382	0.251	0.414	0.089	7	77
161	155.50	90	1.365	0.220	0.396	0.081	6	77
160	154.50	90	1.347	0.191	0.379	0.074	6	77
159	153.50	90	1.330	0.164	0.363	0.066	5	78
158	152.75	45	1.317	0.144	0.351	0.061	2	39
157	152.25	79	1.308	0.132	0.343	0.057	4	68
156	151.50	158	1.295	0.114	0.332	0.052	7	136
155	150.50	159	1.278	0.092	0.317	0.045	6	136
154	149.50	160	1.261	0.070	0.303	0.038	5	137
153	148.50	108	1.245	0.051	0.289	0.032	3	93
152	147.50	109	1.228	0.033	0.276	0.025	2	94
151	146.50	109	1.211	0.016	0.263	0.019	2	94
150	145.50	110	1.195	0.000	0.251	0.014	1	94
149	144.50	125	1.178	-0.015	0.239	0.008	1	107
148	143.50	125	1.162	-0.028	0.228	0.003	0	108
147	142.50	126	1.146	-0.040	0.217	-0.003	0	108
146	141.50	126	1.130	-0.051	0.206	-0.008	-1	109
145	140.50	127	1.114	-0.062	0.196	-0.012	-1	109
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139	134.50	130	1.021	-0.104	0.142	-0.036	-4	111
138	133.50	130	1.006	-0.108	0.134	-0.040	-4	112
137	132.50	131	0.991	-0.112	0.127	-0.043	-5	112
136	131.50	131	0.976	-0.115	0.120	-0.045	-5	113
135	130.50	132	0.961	-0.117	0.113	-0.048	-5	113
134	129.50	132	0.946	-0.119	0.106	-0.050	-6	114
133	128.50	133	0.932	-0.121	0.100	-0.053	-6	114

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131	126.50	134	0.903	-0.122	0.089	-0.056	-7	115
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124	119.50	252	0.806	-0.113	0.056	-0.062	-14	216
123	118.50	253	0.792	-0.110	0.052	-0.062	-14	217
122	117.50	254	0.779	-0.108	0.048	-0.062	-14	218
121	116.75	127	0.769	-0.106	0.045	-0.061	-7	109
120	116.25	86	0.763	-0.104	0.044	-0.061	-5	74
119	115.50	172	0.753	-0.102	0.041	-0.061	-9	148
118	114.50	173	0.740	-0.098	0.038	-0.060	-9	149
117	113.50	173	0.727	-0.095	0.035	-0.058	-9	149
116	112.50	174	0.714	-0.091	0.033	-0.057	-9	150
115	111.50	175	0.702	-0.087	0.030	-0.055	-8	150
114	110.50	175	0.689	-0.084	0.028	-0.054	-8	151
113	109.50	176	0.677	-0.080	0.026	-0.052	-8	151
112	108.50	176	0.664	-0.075	0.023	-0.049	-8	152
111	107.50	177	0.652	-0.071	0.022	-0.047	-7	152
110	106.50	178	0.640	-0.067	0.020	-0.044	-7	153
109	105.50	178	0.628	-0.063	0.018	-0.041	-6	153
108	104.50	246	0.616	-0.059	0.016	-0.038	-8	211
107	103.50	246	0.605	-0.055	0.015	-0.035	-8	211
106	102.50	247	0.593	-0.050	0.014	-0.032	-7	212
105	101.50	247	0.581	-0.046	0.013	-0.029	-6	213
104	100.50	248	0.570	-0.042	0.012	-0.025	-5	213
103	99.50	248	0.559	-0.038	0.011	-0.022	-5	214
102	98.50	249	0.548	-0.034	0.010	-0.018	-4	214
101	97.50	250	0.536	-0.030	0.009	-0.014	-3	215
100	96.50	250	0.526	-0.025	0.008	-0.010	-2	215
99	95.50	251	0.515	-0.022	0.008	-0.007	-1	216
98	94.50	251	0.504	-0.018	0.007	-0.003	-1	216
97	93.50	252	0.493	-0.014	0.007	0.001	0	217
96	92.50	390	0.483	-0.010	0.006	0.005	2	335
95	91.50	391	0.472	-0.006	0.006	0.008	3	336
94	90.50	392	0.462	-0.003	0.006	0.012	4	337
93	89.50	393	0.452	0.001	0.006	0.015	5	338
92	88.50	395	0.442	0.004	0.006	0.019	6	339
91	87.50	277	0.432	0.008	0.006	0.022	5	238
90	86.50	277	0.422	0.011	0.006	0.025	6	238
89	85.50	278	0.413	0.014	0.006	0.028	7	239
88	84.50	279	0.403	0.017	0.006	0.031	8	240
87	83.50	280	0.393	0.020	0.007	0.034	8	240
86	82.50	280	0.384	0.023	0.007	0.037	9	241
85	81.50	281	0.375	0.026	0.007	0.039	9	241
84	80.50	282	0.366	0.028	0.008	0.041	10	242
83	79.50	282	0.357	0.031	0.008	0.043	11	243
82	78.50	283	0.348	0.033	0.009	0.045	11	243
81	77.50	284	0.339	0.036	0.009	0.047	12	244
80	76.50	284	0.330	0.038	0.010	0.049	12	244
79	75.50	285	0.322	0.040	0.011	0.051	12	245
78	74.50	286	0.313	0.042	0.011	0.052	13	246
77	73.50	287	0.305	0.044	0.012	0.053	13	246
76	72.50	287	0.297	0.046	0.013	0.054	14	247
75	71.50	288	0.289	0.048	0.013	0.055	14	247
74	70.50	289	0.281	0.049	0.014	0.056	14	248
73	69.50	289	0.273	0.051	0.015	0.057	14	249
72	68.50	290	0.265	0.053	0.016	0.058	15	249
71	67.50	291	0.257	0.054	0.016	0.059	15	250
70	66.50	292	0.250	0.055	0.017	0.059	15	251
69	65.50	292	0.242	0.057	0.018	0.060	15	251



Site Number: 302535

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

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Customer: AT&T Mobility

68	64.50	293	0.235	0.058	0.019	0.060	15	252
67	63.75	147	0.229	0.059	0.019	0.060	8	126
66	63.25	250	0.226	0.059	0.020	0.060	13	215
65	62.50	501	0.220	0.060	0.021	0.060	26	430
64	61.50	502	0.213	0.061	0.021	0.061	26	432
63	60.50	504	0.207	0.062	0.022	0.061	27	433
62	59.50	506	0.200	0.063	0.023	0.061	27	434
61	58.50	507	0.193	0.064	0.024	0.061	27	436
60	57.50	347	0.187	0.064	0.025	0.061	18	298
59	56.50	348	0.180	0.065	0.026	0.061	18	299
58	55.50	349	0.174	0.066	0.027	0.061	18	300
57	54.50	350	0.168	0.066	0.028	0.061	18	301
56	53.50	351	0.162	0.067	0.028	0.061	18	302
55	52.50	352	0.156	0.067	0.029	0.060	18	302
54	51.50	353	0.150	0.068	0.030	0.060	18	303
53	50.50	354	0.144	0.068	0.031	0.060	18	304
52	49.50	355	0.138	0.069	0.032	0.060	18	305
51	48.50	356	0.133	0.069	0.033	0.060	18	306
50	47.50	357	0.127	0.070	0.033	0.059	18	306
49	46.50	358	0.122	0.070	0.034	0.059	18	307
48	45.50	358	0.117	0.070	0.035	0.059	18	308
47	44.50	359	0.112	0.070	0.036	0.059	18	309
46	43.50	360	0.107	0.071	0.036	0.059	18	310
45	42.50	361	0.102	0.071	0.037	0.058	18	310
44	41.50	362	0.097	0.071	0.038	0.058	18	311
43	40.50	363	0.093	0.071	0.038	0.058	18	312
42	39.50	364	0.088	0.071	0.039	0.058	18	313
41	38.50	365	0.084	0.072	0.039	0.057	18	314
40	37.50	366	0.079	0.072	0.040	0.057	18	314
39	36.50	367	0.075	0.072	0.040	0.057	18	315
38	35.50	368	0.071	0.072	0.040	0.057	18	316
37	34.50	596	0.067	0.072	0.041	0.057	29	512
36	33.50	598	0.063	0.072	0.041	0.056	29	514
35	32.50	600	0.060	0.072	0.041	0.056	29	515
34	31.50	602	0.056	0.071	0.042	0.056	29	517
33	30.50	604	0.053	0.071	0.042	0.056	29	519
32	29.50	606	0.049	0.071	0.042	0.055	29	520
31	28.75	303	0.047	0.071	0.042	0.055	14	261
30	28.25	185	0.045	0.071	0.042	0.055	9	159
29	27.50	370	0.043	0.070	0.042	0.055	18	318
28	26.50	371	0.040	0.070	0.042	0.054	17	319
27	25.50	372	0.037	0.070	0.041	0.054	17	320
26	24.50	373	0.034	0.069	0.041	0.054	17	320
25	23.50	374	0.031	0.068	0.041	0.053	17	321
24	22.75	187	0.029	0.068	0.040	0.053	9	161
23	22.25	188	0.028	0.068	0.040	0.053	9	161
22	21.50	376	0.026	0.067	0.040	0.052	17	323
21	20.50	377	0.024	0.066	0.039	0.052	17	324
20	19.50	378	0.021	0.065	0.038	0.051	17	324
19	18.50	379	0.019	0.064	0.038	0.050	17	325
18	17.50	379	0.017	0.062	0.037	0.050	16	326
17	16.50	380	0.015	0.061	0.036	0.049	16	327
16	15.50	381	0.014	0.059	0.035	0.048	16	328
15	14.50	382	0.012	0.057	0.033	0.047	16	329
14	13.50	383	0.010	0.055	0.032	0.046	15	329
13	12.50	384	0.009	0.053	0.031	0.044	15	330
12	11.50	385	0.007	0.051	0.029	0.043	14	331
11	10.50	386	0.006	0.048	0.027	0.041	14	332
10	9.50	387	0.005	0.045	0.025	0.039	13	333
9	8.50	388	0.004	0.042	0.023	0.037	12	333
8	7.50	389	0.003	0.038	0.021	0.034	12	334
7	6.50	390	0.002	0.034	0.019	0.032	11	335
6	5.50	391	0.002	0.030	0.016	0.029	10	336
5	4.50	322	0.001	0.025	0.014	0.025	7	277

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4	3.50	323	0.001	0.021	0.011	0.021	6	278
3	2.50	324	0.000	0.015	0.008	0.016	4	279
2	1.50	325	0.000	0.009	0.005	0.010	3	279
1	0.50	326	0.000	0.003	0.002	0.004	1	280
DragonWave Horizon C	183.00	21	1.890	1.980	1.140	0.384	7	18
NextNet BTS-2500	183.00	105	1.890	1.980	1.140	0.384	35	90
Decibel DB844H90E-XY	183.00	84	1.890	1.980	1.140	0.384	28	72
Argus LLPX310R	183.00	86	1.890	1.980	1.140	0.384	29	74
DragonWave A-ANT-18G	183.00	54	1.890	1.980	1.140	0.384	18	47
Andrew 844G65VTZASX	183.00	48	1.890	1.980	1.140	0.384	16	41
Flat Platform w/ Han	183.00	2,000	1.890	1.980	1.140	0.384	665	1,719
RFS APXV18-206517S-C	175.00	79	1.728	1.233	0.859	0.278	19	68
Powerwave Allgon LGP	167.00	85	1.574	0.700	0.635	0.187	14	73
Raycap DC6-48-60-18-	167.00	40	1.574	0.700	0.635	0.187	6	34
Ericsson RRUS 11 (Ba	167.00	264	1.574	0.700	0.635	0.187	43	227
Ericsson RRUS-32	167.00	231	1.574	0.700	0.635	0.187	37	198
KMW AM-X-CD-14-65-00	167.00	73	1.574	0.700	0.635	0.187	12	63
KMW AM-X-CD-14-65-00	167.00	36	1.574	0.700	0.635	0.187	6	31
Powerwave Allgon 777	167.00	105	1.574	0.700	0.635	0.187	17	90
CCI OPA-65R-LCUU-H4	167.00	171	1.574	0.700	0.635	0.187	28	147
Flat Platform w/ Han	167.00	2,000	1.574	0.700	0.635	0.187	323	1,719
Kathrein Scala Smart	145.00	10	1.187	-0.008	0.245	0.011	0	9
Andrew ETW200VS12UB	145.00	33	1.187	-0.008	0.245	0.011	0	28
Andrew ETW190VS12UB	145.00	33	1.187	-0.008	0.245	0.011	0	28
Andrew SBNHH-1D65A	145.00	123	1.187	-0.008	0.245	0.011	1	105
Flat Light Sector Fr	145.00	1,200	1.187	-0.008	0.245	0.011	11	1,031
RFS FD9R6004/1C-3L	126.00	19	0.896	-0.122	0.086	-0.057	-1	16
Alcatel-Lucent RRH2X	126.00	138	0.896	-0.122	0.086	-0.057	-7	119
Alcatel-Lucent RRH2X	126.00	132	0.896	-0.122	0.086	-0.057	-7	113
Alcatel-Lucent RRH2x	126.00	132	0.896	-0.122	0.086	-0.057	-7	113
RFS DB-T1-6Z-8AB-OZ	126.00	44	0.896	-0.122	0.086	-0.057	-2	38
RFS DB-T1-6Z-8AB-OZ	126.00	44	0.896	-0.122	0.086	-0.057	-2	38
Andrew HBXX-6516DS-A	126.00	92	0.896	-0.122	0.086	-0.057	-5	79
Andrew LNX-4514DS-A1	126.00	89	0.896	-0.122	0.086	-0.057	-4	76
Antel BXA-80063/6CF	126.00	45	0.896	-0.122	0.086	-0.057	-2	38
Andrew HBXX-6517DS-A	126.00	129	0.896	-0.122	0.086	-0.057	-6	111
Flat Platform w/ Han	126.00	2,000	0.896	-0.122	0.086	-0.057	-99	1,719
Thales PCS VP/360/2	50.00	1	0.141	0.069	0.031	0.060	0	1
Stand-Off	50.00	75	0.141	0.069	0.031	0.060	4	64
		56,948	162.864	47.221	46.651	13.260	2,746	48,933

**Load Case (0.9 - 0.2Sds) \* DL + E ELFM**

**Seismic (Reduced DL) Equivalent Lateral Forces Method**

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
188	182.50	65	1.880	1.926	1.121	0.376	21	56
187	181.50	66	1.859	1.821	1.082	0.362	21	56
186	180.50	66	1.839	1.720	1.045	0.349	20	57
185	179.50	66	1.818	1.623	1.009	0.335	19	57
184	178.50	67	1.798	1.530	0.974	0.322	19	57
183	177.50	67	1.778	1.441	0.940	0.309	18	58
182	176.50	67	1.758	1.355	0.907	0.296	17	58
181	175.50	68	1.738	1.273	0.875	0.284	17	58
180	174.50	73	1.719	1.194	0.843	0.271	17	63
179	173.50	73	1.699	1.118	0.813	0.259	16	63
178	172.50	74	1.679	1.045	0.783	0.247	16	63
177	171.50	74	1.660	0.976	0.755	0.236	15	64
176	170.50	74	1.641	0.910	0.727	0.225	14	64
175	169.50	75	1.621	0.846	0.700	0.213	14	64
174	168.50	75	1.602	0.786	0.673	0.203	13	65

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173	167.50	75	1.583	0.728	0.648	0.192	13	65
172	166.50	86	1.565	0.673	0.623	0.181	13	74
171	165.50	86	1.546	0.620	0.599	0.171	13	74
170	164.50	87	1.527	0.570	0.576	0.161	12	74
169	163.50	87	1.509	0.523	0.553	0.151	11	75
168	162.50	87	1.490	0.477	0.531	0.142	11	75
167	161.50	88	1.472	0.434	0.510	0.133	10	75
166	160.50	88	1.454	0.394	0.490	0.123	9	76
165	159.50	88	1.436	0.355	0.470	0.115	9	76
164	158.50	89	1.418	0.318	0.450	0.106	8	76
163	157.50	89	1.400	0.284	0.432	0.098	8	76
162	156.50	89	1.382	0.251	0.414	0.089	7	77
161	155.50	90	1.365	0.220	0.396	0.081	6	77
160	154.50	90	1.347	0.191	0.379	0.074	6	77
159	153.50	90	1.330	0.164	0.363	0.066	5	78
158	152.75	45	1.317	0.144	0.351	0.061	2	39
157	152.25	79	1.308	0.132	0.343	0.057	4	68
156	151.50	158	1.295	0.114	0.332	0.052	7	136
155	150.50	159	1.278	0.092	0.317	0.045	6	136
154	149.50	160	1.261	0.070	0.303	0.038	5	137
153	148.50	108	1.245	0.051	0.289	0.032	3	93
152	147.50	109	1.228	0.033	0.276	0.025	2	94
151	146.50	109	1.211	0.016	0.263	0.019	2	94
150	145.50	110	1.195	0.000	0.251	0.014	1	94
149	144.50	125	1.178	-0.015	0.239	0.008	1	107
148	143.50	125	1.162	-0.028	0.228	0.003	0	108
147	142.50	126	1.146	-0.040	0.217	-0.003	0	108
146	141.50	126	1.130	-0.051	0.206	-0.008	-1	109
145	140.50	127	1.114	-0.062	0.196	-0.012	-1	109
144	139.50	127	1.098	-0.071	0.186	-0.017	-2	109
143	138.50	128	1.083	-0.079	0.176	-0.021	-2	110
142	137.50	128	1.067	-0.087	0.167	-0.025	-3	110
141	136.50	129	1.052	-0.093	0.158	-0.029	-3	111
140	135.50	129	1.036	-0.099	0.150	-0.033	-4	111
139	134.50	130	1.021	-0.104	0.142	-0.036	-4	111
138	133.50	130	1.006	-0.108	0.134	-0.040	-4	112
137	132.50	131	0.991	-0.112	0.127	-0.043	-5	112
136	131.50	131	0.976	-0.115	0.120	-0.045	-5	113
135	130.50	132	0.961	-0.117	0.113	-0.048	-5	113
134	129.50	132	0.946	-0.119	0.106	-0.050	-6	114
133	128.50	133	0.932	-0.121	0.100	-0.053	-6	114
132	127.50	133	0.917	-0.121	0.094	-0.055	-6	114
131	126.50	134	0.903	-0.122	0.089	-0.056	-7	115
130	125.50	147	0.889	-0.122	0.083	-0.058	-7	127
129	124.50	148	0.875	-0.121	0.078	-0.059	-8	127
128	123.50	148	0.861	-0.120	0.073	-0.060	-8	128
127	122.50	149	0.847	-0.119	0.068	-0.061	-8	128
126	121.50	149	0.833	-0.117	0.064	-0.062	-8	128
125	120.50	251	0.819	-0.115	0.060	-0.062	-13	215
124	119.50	252	0.806	-0.113	0.056	-0.062	-14	216
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105	101.50	247	0.581	-0.046	0.013	-0.029	-6	213
104	100.50	248	0.570	-0.042	0.012	-0.025	-5	213
103	99.50	248	0.559	-0.038	0.011	-0.022	-5	214
102	98.50	249	0.548	-0.034	0.010	-0.018	-4	214
101	97.50	250	0.536	-0.030	0.009	-0.014	-3	215
100	96.50	250	0.526	-0.025	0.008	-0.010	-2	215
99	95.50	251	0.515	-0.022	0.008	-0.007	-1	216
98	94.50	251	0.504	-0.018	0.007	-0.003	-1	216
97	93.50	252	0.493	-0.014	0.007	0.001	0	217
96	92.50	390	0.483	-0.010	0.006	0.005	2	335
95	91.50	391	0.472	-0.006	0.006	0.008	3	336
94	90.50	392	0.462	-0.003	0.006	0.012	4	337
93	89.50	393	0.452	0.001	0.006	0.015	5	338
92	88.50	395	0.442	0.004	0.006	0.019	6	339
91	87.50	277	0.432	0.008	0.006	0.022	5	238
90	86.50	277	0.422	0.011	0.006	0.025	6	238
89	85.50	278	0.413	0.014	0.006	0.028	7	239
88	84.50	279	0.403	0.017	0.006	0.031	8	240
87	83.50	280	0.393	0.020	0.007	0.034	8	240
86	82.50	280	0.384	0.023	0.007	0.037	9	241
85	81.50	281	0.375	0.026	0.007	0.039	9	241
84	80.50	282	0.366	0.028	0.008	0.041	10	242
83	79.50	282	0.357	0.031	0.008	0.043	11	243
82	78.50	283	0.348	0.033	0.009	0.045	11	243
81	77.50	284	0.339	0.036	0.009	0.047	12	244
80	76.50	284	0.330	0.038	0.010	0.049	12	244
79	75.50	285	0.322	0.040	0.011	0.051	12	245
78	74.50	286	0.313	0.042	0.011	0.052	13	246
77	73.50	287	0.305	0.044	0.012	0.053	13	246
76	72.50	287	0.297	0.046	0.013	0.054	14	247
75	71.50	288	0.289	0.048	0.013	0.055	14	247
74	70.50	289	0.281	0.049	0.014	0.056	14	248
73	69.50	289	0.273	0.051	0.015	0.057	14	249
72	68.50	290	0.265	0.053	0.016	0.058	15	249
71	67.50	291	0.257	0.054	0.016	0.059	15	250
70	66.50	292	0.250	0.055	0.017	0.059	15	251
69	65.50	292	0.242	0.057	0.018	0.060	15	251
68	64.50	293	0.235	0.058	0.019	0.060	15	252
67	63.75	147	0.229	0.059	0.019	0.060	8	126
66	63.25	250	0.226	0.059	0.020	0.060	13	215
65	62.50	501	0.220	0.060	0.021	0.060	26	430
64	61.50	502	0.213	0.061	0.021	0.061	26	432
63	60.50	504	0.207	0.062	0.022	0.061	27	433
62	59.50	506	0.200	0.063	0.023	0.061	27	434
61	58.50	507	0.193	0.064	0.024	0.061	27	436
60	57.50	347	0.187	0.064	0.025	0.061	18	298
59	56.50	348	0.180	0.065	0.026	0.061	18	299
58	55.50	349	0.174	0.066	0.027	0.061	18	300
57	54.50	350	0.168	0.066	0.028	0.061	18	301
56	53.50	351	0.162	0.067	0.028	0.061	18	302
55	52.50	352	0.156	0.067	0.029	0.060	18	302
54	51.50	353	0.150	0.068	0.030	0.060	18	303
53	50.50	354	0.144	0.068	0.031	0.060	18	304
52	49.50	355	0.138	0.069	0.032	0.060	18	305
51	48.50	356	0.133	0.069	0.033	0.060	18	306
50	47.50	357	0.127	0.070	0.033	0.059	18	306
49	46.50	358	0.122	0.070	0.034	0.059	18	307
48	45.50	358	0.117	0.070	0.035	0.059	18	308
47	44.50	359	0.112	0.070	0.036	0.059	18	309
46	43.50	360	0.107	0.071	0.036	0.059	18	310

Site Number: 302535

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

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Customer: AT&T Mobility

45	42.50	361	0.102	0.071	0.037	0.058	18	310
44	41.50	362	0.097	0.071	0.038	0.058	18	311
43	40.50	363	0.093	0.071	0.038	0.058	18	312
42	39.50	364	0.088	0.071	0.039	0.058	18	313
41	38.50	365	0.084	0.072	0.039	0.057	18	314
40	37.50	366	0.079	0.072	0.040	0.057	18	314
39	36.50	367	0.075	0.072	0.040	0.057	18	315
38	35.50	368	0.071	0.072	0.040	0.057	18	316
37	34.50	596	0.067	0.072	0.041	0.057	29	512
36	33.50	598	0.063	0.072	0.041	0.056	29	514
35	32.50	600	0.060	0.072	0.041	0.056	29	515
34	31.50	602	0.056	0.071	0.042	0.056	29	517
33	30.50	604	0.053	0.071	0.042	0.056	29	519
32	29.50	606	0.049	0.071	0.042	0.055	29	520
31	28.75	303	0.047	0.071	0.042	0.055	14	261
30	28.25	185	0.045	0.071	0.042	0.055	9	159
29	27.50	370	0.043	0.070	0.042	0.055	18	318
28	26.50	371	0.040	0.070	0.042	0.054	17	319
27	25.50	372	0.037	0.070	0.041	0.054	17	320
26	24.50	373	0.034	0.069	0.041	0.054	17	320
25	23.50	374	0.031	0.068	0.041	0.053	17	321
24	22.75	187	0.029	0.068	0.040	0.053	9	161
23	22.25	188	0.028	0.068	0.040	0.053	9	161
22	21.50	376	0.026	0.067	0.040	0.052	17	323
21	20.50	377	0.024	0.066	0.039	0.052	17	324
20	19.50	378	0.021	0.065	0.038	0.051	17	324
19	18.50	379	0.019	0.064	0.038	0.050	17	325
18	17.50	379	0.017	0.062	0.037	0.050	16	326
17	16.50	380	0.015	0.061	0.036	0.049	16	327
16	15.50	381	0.014	0.059	0.035	0.048	16	328
15	14.50	382	0.012	0.057	0.033	0.047	16	329
14	13.50	383	0.010	0.055	0.032	0.046	15	329
13	12.50	384	0.009	0.053	0.031	0.044	15	330
12	11.50	385	0.007	0.051	0.029	0.043	14	331
11	10.50	386	0.006	0.048	0.027	0.041	14	332
10	9.50	387	0.005	0.045	0.025	0.039	13	333
9	8.50	388	0.004	0.042	0.023	0.037	12	333
8	7.50	389	0.003	0.038	0.021	0.034	12	334
7	6.50	390	0.002	0.034	0.019	0.032	11	335
6	5.50	391	0.002	0.030	0.016	0.029	10	336
5	4.50	322	0.001	0.025	0.014	0.025	7	277
4	3.50	323	0.001	0.021	0.011	0.021	6	278
3	2.50	324	0.000	0.015	0.008	0.016	4	279
2	1.50	325	0.000	0.009	0.005	0.010	3	279
1	0.50	326	0.000	0.003	0.002	0.004	1	280
DragonWave Horizon C	183.00	21	1.890	1.980	1.140	0.384	7	18
NextNet BTS-2500	183.00	105	1.890	1.980	1.140	0.384	35	90
Decibel DB844H90E-XY	183.00	84	1.890	1.980	1.140	0.384	28	72
Argus LLPX310R	183.00	86	1.890	1.980	1.140	0.384	29	74
DragonWave A-ANT-18G	183.00	54	1.890	1.980	1.140	0.384	18	47
Andrew 844G65VTZASX	183.00	48	1.890	1.980	1.140	0.384	16	41
Flat Platform w/ Han	183.00	2,000	1.890	1.980	1.140	0.384	665	1,719
RFS APXV18-206517S-C	175.00	79	1.728	1.233	0.859	0.278	19	68
Powerwave Allgon LGP	167.00	85	1.574	0.700	0.635	0.187	14	73
Raycap DC6-48-60-18-	167.00	40	1.574	0.700	0.635	0.187	6	34
Ericsson RRUS 11 (Ba	167.00	264	1.574	0.700	0.635	0.187	43	227
Ericsson RRUS-32	167.00	231	1.574	0.700	0.635	0.187	37	198
KMW AM-X-CD-14-65-00	167.00	73	1.574	0.700	0.635	0.187	12	63
KMW AM-X-CD-14-65-00	167.00	36	1.574	0.700	0.635	0.187	6	31
Powerwave Allgon 777	167.00	105	1.574	0.700	0.635	0.187	17	90
CCI OPA-65R-LCUU-H4	167.00	171	1.574	0.700	0.635	0.187	28	147
Flat Platform w/ Han	167.00	2,000	1.574	0.700	0.635	0.187	323	1,719
Kathrein Scala Smart	145.00	10	1.187	-0.008	0.245	0.011	0	9
Andrew ETW200VS12UB	145.00	33	1.187	-0.008	0.245	0.011	0	28

Site Number: 302535

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Andrew ETW190VS12UB	145.00	33	1.187	-0.008	0.245	0.011	0	28
Andrew SBNHH-1D65A	145.00	123	1.187	-0.008	0.245	0.011	1	105
Flat Light Sector Fr	145.00	1,200	1.187	-0.008	0.245	0.011	11	1,031
RFS FD9R6004/1C-3L	126.00	19	0.896	-0.122	0.086	-0.057	-1	16
Alcatel-Lucent RRH2X	126.00	138	0.896	-0.122	0.086	-0.057	-7	119
Alcatel-Lucent RRH2X	126.00	132	0.896	-0.122	0.086	-0.057	-7	113
Alcatel-Lucent RRH2x	126.00	132	0.896	-0.122	0.086	-0.057	-7	113
RFS DB-T1-6Z-8AB-OZ	126.00	44	0.896	-0.122	0.086	-0.057	-2	38
RFS DB-T1-6Z-8AB-OZ	126.00	44	0.896	-0.122	0.086	-0.057	-2	38
Andrew HBXX-6516DS-A	126.00	92	0.896	-0.122	0.086	-0.057	-5	79
Andrew LNX-4514DS-A1	126.00	89	0.896	-0.122	0.086	-0.057	-4	76
Antel BXA-80063/6CF	126.00	45	0.896	-0.122	0.086	-0.057	-2	38
Andrew HBXX-6517DS-A	126.00	129	0.896	-0.122	0.086	-0.057	-6	111
Flat Platform w/ Han	126.00	2,000	0.896	-0.122	0.086	-0.057	-99	1,719
Thales PCS VP/360/2	50.00	1	0.141	0.069	0.031	0.060	0	1
Stand-Off	50.00	75	0.141	0.069	0.031	0.060	4	64
		56,948	162.864	47.221	46.651	13.260	2,746	48,933

**Load Case (0.9 - 0.2Sds) \* DL + E EMAM**

**Seismic (Reduced DL) Equivalent Modal Analysis Method**

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
188	182.50	65	1.880	1.926	1.121	0.376	21	56
187	181.50	66	1.859	1.821	1.082	0.362	21	56
186	180.50	66	1.839	1.720	1.045	0.349	20	57
185	179.50	66	1.818	1.623	1.009	0.335	19	57
184	178.50	67	1.798	1.530	0.974	0.322	19	57
183	177.50	67	1.778	1.441	0.940	0.309	18	58
182	176.50	67	1.758	1.355	0.907	0.296	17	58
181	175.50	68	1.738	1.273	0.875	0.284	17	58
180	174.50	73	1.719	1.194	0.843	0.271	17	63
179	173.50	73	1.699	1.118	0.813	0.259	16	63
178	172.50	74	1.679	1.045	0.783	0.247	16	63
177	171.50	74	1.660	0.976	0.755	0.236	15	64
176	170.50	74	1.641	0.910	0.727	0.225	14	64
175	169.50	75	1.621	0.846	0.700	0.213	14	64
174	168.50	75	1.602	0.786	0.673	0.203	13	65
173	167.50	75	1.583	0.728	0.648	0.192	13	65
172	166.50	86	1.565	0.673	0.623	0.181	13	74
171	165.50	86	1.546	0.620	0.599	0.171	13	74
170	164.50	87	1.527	0.570	0.576	0.161	12	74
169	163.50	87	1.509	0.523	0.553	0.151	11	75
168	162.50	87	1.490	0.477	0.531	0.142	11	75
167	161.50	88	1.472	0.434	0.510	0.133	10	75
166	160.50	88	1.454	0.394	0.490	0.123	9	76
165	159.50	88	1.436	0.355	0.470	0.115	9	76
164	158.50	89	1.418	0.318	0.450	0.106	8	76
163	157.50	89	1.400	0.284	0.432	0.098	8	76
162	156.50	89	1.382	0.251	0.414	0.089	7	77
161	155.50	90	1.365	0.220	0.396	0.081	6	77
160	154.50	90	1.347	0.191	0.379	0.074	6	77
159	153.50	90	1.330	0.164	0.363	0.066	5	78
158	152.75	45	1.317	0.144	0.351	0.061	2	39
157	152.25	79	1.308	0.132	0.343	0.057	4	68
156	151.50	158	1.295	0.114	0.332	0.052	7	136
155	150.50	159	1.278	0.092	0.317	0.045	6	136
154	149.50	160	1.261	0.070	0.303	0.038	5	137
153	148.50	108	1.245	0.051	0.289	0.032	3	93
152	147.50	109	1.228	0.033	0.276	0.025	2	94
151	146.50	109	1.211	0.016	0.263	0.019	2	94

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150	145.50	110	1.195	0.000	0.251	0.014	1	94
149	144.50	125	1.178	-0.015	0.239	0.008	1	107
148	143.50	125	1.162	-0.028	0.228	0.003	0	108
147	142.50	126	1.146	-0.040	0.217	-0.003	0	108
146	141.50	126	1.130	-0.051	0.206	-0.008	-1	109
145	140.50	127	1.114	-0.062	0.196	-0.012	-1	109
144	139.50	127	1.098	-0.071	0.186	-0.017	-2	109
143	138.50	128	1.083	-0.079	0.176	-0.021	-2	110
142	137.50	128	1.067	-0.087	0.167	-0.025	-3	110
141	136.50	129	1.052	-0.093	0.158	-0.029	-3	111
140	135.50	129	1.036	-0.099	0.150	-0.033	-4	111
139	134.50	130	1.021	-0.104	0.142	-0.036	-4	111
138	133.50	130	1.006	-0.108	0.134	-0.040	-4	112
137	132.50	131	0.991	-0.112	0.127	-0.043	-5	112
136	131.50	131	0.976	-0.115	0.120	-0.045	-5	113
135	130.50	132	0.961	-0.117	0.113	-0.048	-5	113
134	129.50	132	0.946	-0.119	0.106	-0.050	-6	114
133	128.50	133	0.932	-0.121	0.100	-0.053	-6	114
132	127.50	133	0.917	-0.121	0.094	-0.055	-6	114
131	126.50	134	0.903	-0.122	0.089	-0.056	-7	115
130	125.50	147	0.889	-0.122	0.083	-0.058	-7	127
129	124.50	148	0.875	-0.121	0.078	-0.059	-8	127
128	123.50	148	0.861	-0.120	0.073	-0.060	-8	128
127	122.50	149	0.847	-0.119	0.068	-0.061	-8	128
126	121.50	149	0.833	-0.117	0.064	-0.062	-8	128
125	120.50	251	0.819	-0.115	0.060	-0.062	-13	215
124	119.50	252	0.806	-0.113	0.056	-0.062	-14	216
123	118.50	253	0.792	-0.110	0.052	-0.062	-14	217
122	117.50	254	0.779	-0.108	0.048	-0.062	-14	218
121	116.75	127	0.769	-0.106	0.045	-0.061	-7	109
120	116.25	86	0.763	-0.104	0.044	-0.061	-5	74
119	115.50	172	0.753	-0.102	0.041	-0.061	-9	148
118	114.50	173	0.740	-0.098	0.038	-0.060	-9	149
117	113.50	173	0.727	-0.095	0.035	-0.058	-9	149
116	112.50	174	0.714	-0.091	0.033	-0.057	-9	150
115	111.50	175	0.702	-0.087	0.030	-0.055	-8	150
114	110.50	175	0.689	-0.084	0.028	-0.054	-8	151
113	109.50	176	0.677	-0.080	0.026	-0.052	-8	151
112	108.50	176	0.664	-0.075	0.023	-0.049	-8	152
111	107.50	177	0.652	-0.071	0.022	-0.047	-7	152
110	106.50	178	0.640	-0.067	0.020	-0.044	-7	153
109	105.50	178	0.628	-0.063	0.018	-0.041	-6	153
108	104.50	246	0.616	-0.059	0.016	-0.038	-8	211
107	103.50	246	0.605	-0.055	0.015	-0.035	-8	211
106	102.50	247	0.593	-0.050	0.014	-0.032	-7	212
105	101.50	247	0.581	-0.046	0.013	-0.029	-6	213
104	100.50	248	0.570	-0.042	0.012	-0.025	-5	213
103	99.50	248	0.559	-0.038	0.011	-0.022	-5	214
102	98.50	249	0.548	-0.034	0.010	-0.018	-4	214
101	97.50	250	0.536	-0.030	0.009	-0.014	-3	215
100	96.50	250	0.526	-0.025	0.008	-0.010	-2	215
99	95.50	251	0.515	-0.022	0.008	-0.007	-1	216
98	94.50	251	0.504	-0.018	0.007	-0.003	-1	216
97	93.50	252	0.493	-0.014	0.007	0.001	0	217
96	92.50	390	0.483	-0.010	0.006	0.005	2	335
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89	85.50	278	0.413	0.014	0.006	0.028	7	239
88	84.50	279	0.403	0.017	0.006	0.031	8	240
87	83.50	280	0.393	0.020	0.007	0.034	8	240

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86	82.50	280	0.384	0.023	0.007	0.037	9	241
85	81.50	281	0.375	0.026	0.007	0.039	9	241
84	80.50	282	0.366	0.028	0.008	0.041	10	242
83	79.50	282	0.357	0.031	0.008	0.043	11	243
82	78.50	283	0.348	0.033	0.009	0.045	11	243
81	77.50	284	0.339	0.036	0.009	0.047	12	244
80	76.50	284	0.330	0.038	0.010	0.049	12	244
79	75.50	285	0.322	0.040	0.011	0.051	12	245
78	74.50	286	0.313	0.042	0.011	0.052	13	246
77	73.50	287	0.305	0.044	0.012	0.053	13	246
76	72.50	287	0.297	0.046	0.013	0.054	14	247
75	71.50	288	0.289	0.048	0.013	0.055	14	247
74	70.50	289	0.281	0.049	0.014	0.056	14	248
73	69.50	289	0.273	0.051	0.015	0.057	14	249
72	68.50	290	0.265	0.053	0.016	0.058	15	249
71	67.50	291	0.257	0.054	0.016	0.059	15	250
70	66.50	292	0.250	0.055	0.017	0.059	15	251
69	65.50	292	0.242	0.057	0.018	0.060	15	251
68	64.50	293	0.235	0.058	0.019	0.060	15	252
67	63.75	147	0.229	0.059	0.019	0.060	8	126
66	63.25	250	0.226	0.059	0.020	0.060	13	215
65	62.50	501	0.220	0.060	0.021	0.060	26	430
64	61.50	502	0.213	0.061	0.021	0.061	26	432
63	60.50	504	0.207	0.062	0.022	0.061	27	433
62	59.50	506	0.200	0.063	0.023	0.061	27	434
61	58.50	507	0.193	0.064	0.024	0.061	27	436
60	57.50	347	0.187	0.064	0.025	0.061	18	298
59	56.50	348	0.180	0.065	0.026	0.061	18	299
58	55.50	349	0.174	0.066	0.027	0.061	18	300
57	54.50	350	0.168	0.066	0.028	0.061	18	301
56	53.50	351	0.162	0.067	0.028	0.061	18	302
55	52.50	352	0.156	0.067	0.029	0.060	18	302
54	51.50	353	0.150	0.068	0.030	0.060	18	303
53	50.50	354	0.144	0.068	0.031	0.060	18	304
52	49.50	355	0.138	0.069	0.032	0.060	18	305
51	48.50	356	0.133	0.069	0.033	0.060	18	306
50	47.50	357	0.127	0.070	0.033	0.059	18	306
49	46.50	358	0.122	0.070	0.034	0.059	18	307
48	45.50	358	0.117	0.070	0.035	0.059	18	308
47	44.50	359	0.112	0.070	0.036	0.059	18	309
46	43.50	360	0.107	0.071	0.036	0.059	18	310
45	42.50	361	0.102	0.071	0.037	0.058	18	310
44	41.50	362	0.097	0.071	0.038	0.058	18	311
43	40.50	363	0.093	0.071	0.038	0.058	18	312
42	39.50	364	0.088	0.071	0.039	0.058	18	313
41	38.50	365	0.084	0.072	0.039	0.057	18	314
40	37.50	366	0.079	0.072	0.040	0.057	18	314
39	36.50	367	0.075	0.072	0.040	0.057	18	315
38	35.50	368	0.071	0.072	0.040	0.057	18	316
37	34.50	596	0.067	0.072	0.041	0.057	29	512
36	33.50	598	0.063	0.072	0.041	0.056	29	514
35	32.50	600	0.060	0.072	0.041	0.056	29	515
34	31.50	602	0.056	0.071	0.042	0.056	29	517
33	30.50	604	0.053	0.071	0.042	0.056	29	519
32	29.50	606	0.049	0.071	0.042	0.055	29	520
31	28.75	303	0.047	0.071	0.042	0.055	14	261
30	28.25	185	0.045	0.071	0.042	0.055	9	159
29	27.50	370	0.043	0.070	0.042	0.055	18	318
28	26.50	371	0.040	0.070	0.042	0.054	17	319
27	25.50	372	0.037	0.070	0.041	0.054	17	320
26	24.50	373	0.034	0.069	0.041	0.054	17	320
25	23.50	374	0.031	0.068	0.041	0.053	17	321
24	22.75	187	0.029	0.068	0.040	0.053	9	161
23	22.25	188	0.028	0.068	0.040	0.053	9	161



Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

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Customer: AT&T Mobility

22	21.50	376	0.026	0.067	0.040	0.052	17	323
21	20.50	377	0.024	0.066	0.039	0.052	17	324
20	19.50	378	0.021	0.065	0.038	0.051	17	324
19	18.50	379	0.019	0.064	0.038	0.050	17	325
18	17.50	379	0.017	0.062	0.037	0.050	16	326
17	16.50	380	0.015	0.061	0.036	0.049	16	327
16	15.50	381	0.014	0.059	0.035	0.048	16	328
15	14.50	382	0.012	0.057	0.033	0.047	16	329
14	13.50	383	0.010	0.055	0.032	0.046	15	329
13	12.50	384	0.009	0.053	0.031	0.044	15	330
12	11.50	385	0.007	0.051	0.029	0.043	14	331
11	10.50	386	0.006	0.048	0.027	0.041	14	332
10	9.50	387	0.005	0.045	0.025	0.039	13	333
9	8.50	388	0.004	0.042	0.023	0.037	12	333
8	7.50	389	0.003	0.038	0.021	0.034	12	334
7	6.50	390	0.002	0.034	0.019	0.032	11	335
6	5.50	391	0.002	0.030	0.016	0.029	10	336
5	4.50	322	0.001	0.025	0.014	0.025	7	277
4	3.50	323	0.001	0.021	0.011	0.021	6	278
3	2.50	324	0.000	0.015	0.008	0.016	4	279
2	1.50	325	0.000	0.009	0.005	0.010	3	279
1	0.50	326	0.000	0.003	0.002	0.004	1	280
DragonWave Horizon C	183.00	21	1.890	1.980	1.140	0.384	7	18
NextNet BTS-2500	183.00	105	1.890	1.980	1.140	0.384	35	90
Decibel DB844H90E-XY	183.00	84	1.890	1.980	1.140	0.384	28	72
Argus LLPX310R	183.00	86	1.890	1.980	1.140	0.384	29	74
DragonWave A-ANT-18G	183.00	54	1.890	1.980	1.140	0.384	18	47
Andrew 844G65VTZASX	183.00	48	1.890	1.980	1.140	0.384	16	41
Flat Platform w/ Han	183.00	2,000	1.890	1.980	1.140	0.384	665	1,719
RFS APXV18-206517S-C	175.00	79	1.728	1.233	0.859	0.278	19	68
Powerwave Allgon LGP	167.00	85	1.574	0.700	0.635	0.187	14	73
Raycap DC6-48-60-18-	167.00	40	1.574	0.700	0.635	0.187	6	34
Ericsson RRUS 11 (Ba	167.00	264	1.574	0.700	0.635	0.187	43	227
Ericsson RRUS-32	167.00	231	1.574	0.700	0.635	0.187	37	198
KMW AM-X-CD-14-65-00	167.00	73	1.574	0.700	0.635	0.187	12	63
KMW AM-X-CD-14-65-00	167.00	36	1.574	0.700	0.635	0.187	6	31
Powerwave Allgon 777	167.00	105	1.574	0.700	0.635	0.187	17	90
CCI OPA-65R-LCUU-H4	167.00	171	1.574	0.700	0.635	0.187	28	147
Flat Platform w/ Han	167.00	2,000	1.574	0.700	0.635	0.187	323	1,719
Kathrein Scala Smart	145.00	10	1.187	-0.008	0.245	0.011	0	9
Andrew ETW200VS12UB	145.00	33	1.187	-0.008	0.245	0.011	0	28
Andrew ETW190VS12UB	145.00	33	1.187	-0.008	0.245	0.011	0	28
Andrew SBNHH-1D65A	145.00	123	1.187	-0.008	0.245	0.011	1	105
Flat Light Sector Fr	145.00	1,200	1.187	-0.008	0.245	0.011	11	1,031
RFS FD9R6004/1C-3L	126.00	19	0.896	-0.122	0.086	-0.057	-1	16
Alcatel-Lucent RRH2X	126.00	138	0.896	-0.122	0.086	-0.057	-7	119
Alcatel-Lucent RRH2X	126.00	132	0.896	-0.122	0.086	-0.057	-7	113
Alcatel-Lucent RRH2x	126.00	132	0.896	-0.122	0.086	-0.057	-7	113
RFS DB-T1-6Z-8AB-0Z	126.00	44	0.896	-0.122	0.086	-0.057	-2	38
RFS DB-T1-6Z-8AB-0Z	126.00	44	0.896	-0.122	0.086	-0.057	-2	38
Andrew HBXX-6516DS-A	126.00	92	0.896	-0.122	0.086	-0.057	-5	79
Andrew LNX-4514DS-A1	126.00	89	0.896	-0.122	0.086	-0.057	-4	76
Antel BXA-80063/6CF	126.00	45	0.896	-0.122	0.086	-0.057	-2	38
Andrew HBXX-6517DS-A	126.00	129	0.896	-0.122	0.086	-0.057	-6	111
Flat Platform w/ Han	126.00	2,000	0.896	-0.122	0.086	-0.057	-99	1,719
Thales PCS VP/360/2	50.00	1	0.141	0.069	0.031	0.060	0	1
Stand-Off	50.00	75	0.141	0.069	0.031	0.060	4	64
		56,948	162.864	47.221	46.651	13.260	2,746	48,933

Site Number: 302535

Code: ANSI/TIA-222-G

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Site Name: Milford CT 2, CT

Engineering Number: 64347721

11/11/2015 7:56:04 PM

Customer: AT&T Mobility

**Analysis Summary**

Load Case	Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.6W	46.25	0.00	68.31	0.00	0.00	5680.74	0.00	0.99
0.9D + 1.6W	44.50	0.00	51.23	0.00	0.00	5461.36	0.00	0.95
1.2D + 1.0Di + 1.0Wi	8.63	0.00	106.01	0.00	0.00	1117.91	121.00	0.23
(1.2 + 0.2Sds) * DL + E ELFM	2.22	0.00	70.25	0.00	0.00	322.52	121.00	0.08
(1.2 + 0.2Sds) * DL + E EMAM	2.74	0.00	70.25	0.00	0.00	337.27	121.00	0.12
(0.9 - 0.2Sds) * DL + E ELFM	2.22	0.00	48.65	0.00	0.00	315.69	121.00	0.07
(0.9 - 0.2Sds) * DL + E EMAM	2.74	0.00	48.65	0.00	0.00	329.94	121.00	0.11
1.0D + 1.0W	8.27	0.00	56.95	0.00	0.00	1023.44	0.00	0.19

**Additional Steel Summary**

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors			Upper Termination Connectors				Lower Termination Connectors				Max Member		
			VQ/I (lb/in)	Shear Applied (kips)	Shear phiVn (kips)	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Pu (kip)	phiPn (kip)	Ratio
0.00	22.5	(4) SOL-#20 All Thre	239.8	4.8	16.8	0.0	12.0	0	0	0.0	12.0	0	0	314.9	343.1	0.918
22.5	43.0	(4) SOL-#20 All Thre	258.9	4.7	16.8	0.0	12.0	0	0	0.0	12.0	0	0	300.3	345.0	0.870
43.0	105.	(4) SOL-#20 All Thre	374.0	11.2	16.8	201.3	12.0	17	14	0.0	12.0	0	0	280.2	330.5	0.848

<b>Base/Flange Plate</b>	Plate Type	<b>Baseplate</b>
	Pole Diameter	48.62 in
	Pole Thickness	0.5 in
	Plate Length	56 in
	Plate Thickness	2.75 in
	Plate Fy	50 ksi
	Weld Length	0.3125 in
	$\phi_s$ Resistance	2526.82 k-in
	Applied	1524.97 k-in
<b>Stiffeners</b>	#	0

Code Rev. **G**

Date 11/11/2015  
 Engineer RDB  
 Site # 302535  
 Carrier AT&T Mobility

Moment 5680.7 k-ft  
 Axial 68.3 k

<b>Bolts</b>	#	16
	Bolt Circle	56 in
	(R)adial / (S)quare	S
	Bolt Gap	6 in
	Diameter	2.25 in
	Hole Diameter	2.5 in
	Type	A615-75
	Fy	75 ksi
	Fu	100 ksi
	$\phi_s$ Resistance	259.82 k
	Applied	179.20 k
<b>Reinforcement</b>	#	0
<b>Extra Bolts</b>	#	8
	Bolt Circle	55.5 in
	(R)adial / (S)quare	S
	Bolt Gap	0 in
	Offset Angle	45°
	Diameter	2.72 in
	Type	DYWIDAG
	Fy	80 ksi
Fu	100 ksi	
$\phi_s$ Resistance	385.33 k	
Applied	191.40 k	

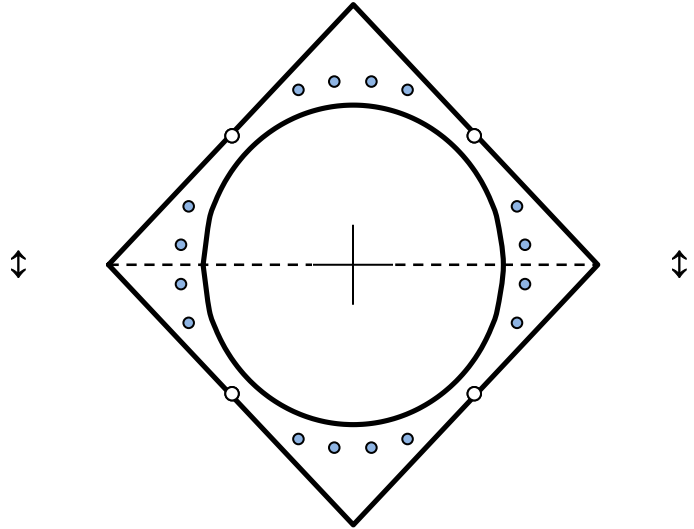


Plate Stress Ratio:  
**0.60** (Pass)

Bolt Stress Ratio:  
**0.69** (Pass)

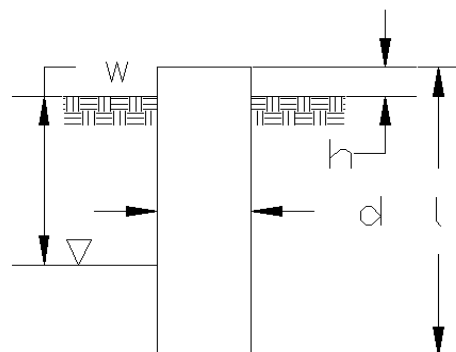
Extra Bolt Stress Ratio:  
**0.50** (Pass)

Site Name: Milford CT 2, CT  
 Site Number: 302535  
 Engineer: R. Barrett  
 Engineering Number: 64347721  
 Date: 11/11/15

Program Last Updated: 5/13/2014  
 American Tower Corporation

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

Analyze or Design a Foundation? Analyze  
 Foundation Mapped: N  
 Moment (M): 5689.7 k-ft  
 Shear/Leg (V): 46.3 k  
 Axial Load (P): 68.3 k  
 Uplift/Leg (U): 0.0 k  
 Tower Type (GT / SST / MP): MP



Diameter of Caisson (d): 6.0 ft  
 Caisson Embedment (L-h): 20.0 ft  
 Caisson Height Above Ground (h): 0.5 ft  
 Depth Below Ground Surface to Water Table (w): 99.0 ft  
 Unit Weight of Concrete: 150.0 pcf  
 Unit Weight of Water: 62.4 pcf  
 Tension Skin Friction/Compression Skin Friction: 1.00  
 Pullout Angle: 30.0 degrees

Engineer Notes

**Soil Mechanical Properties**

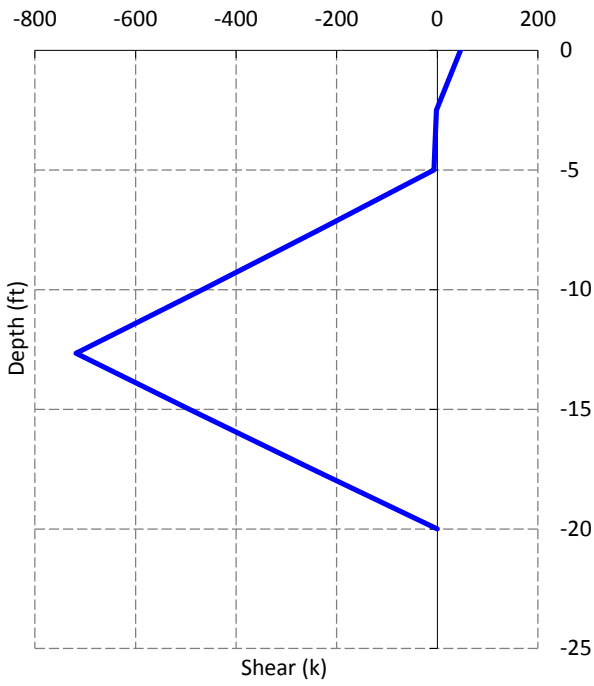
Depth (ft)		$\gamma_{Soil}$	Cohesion	$\phi$	Ultimate Skin	Ultimate Bearing
Top	Bottom	(pcf)	(psf)	(degree)	Friction (psf)	Pressure (psf)
0.0	3.0	100	0	0	0	0
3.0	15.0	125	6250	0	3125	36827
15.0	21.0	125	6250	0	3125	37921

Volume of Concrete: 579.6 ft<sup>3</sup> = 21.5 yd<sup>3</sup>  
 Weight of Concrete (Buoyancy Effect Considered): 86.9 k  
 Average Soil Unit Weight: 121.3 pcf  
 Skin Friction Resistance: 1001.4 k  
 Compressive Bearing Resistance: 1072.2 k  
 Pullout Weight (Minus Concrete Weight): 602.5 k  
 Nominal Uplift Capacity per Leg ( $\phi_s T_n$ ): 451.9 k  
 Nominal Compressive Capacity per Leg ( $\phi_s P_n$ ): 1555.2 k  
 $P_u$ : 87.8 k  
 $T_u / \phi_s T_n$ : 0.00 Result: OK  
 $P_u / \phi_s P_n$ : 0.06 Result: OK  
 Total Lateral Resistance: 4190.2 k  
 Inflection Point (Below Ground Surface): 12.7 ft  
 Design Overturning Moment At Inflection Point ( $M_D$ ): 6298.3 k-ft  
 Nominal Moment Capacity ( $\phi_s M_n$ ): 11861.2 k-ft  
 $M_D / \phi_s M_n$ : 0.53 Result: OK  
 $\phi_s$ : 0.75

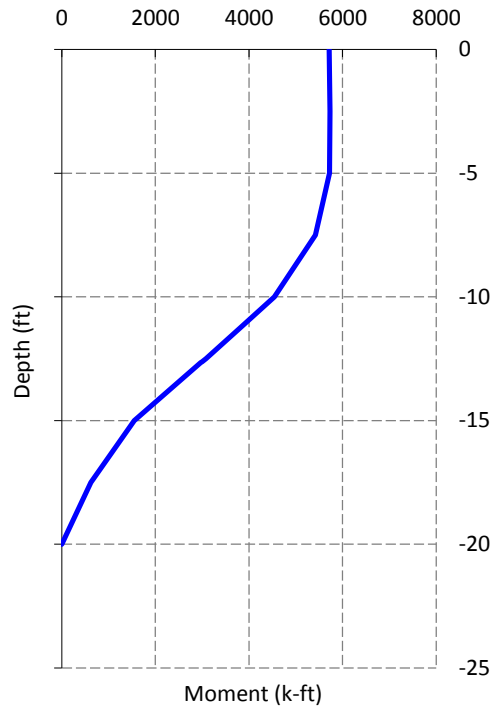
## Caisson Strength Capacity

Concrete Compressive Strength ( $f'_c$ ):	3000 psi
Vertical Steel Rebar Size #:	11
Vertical Steel Rebar Area:	1.56 in <sup>2</sup>
# of Vertical Steel Rebars:	33
Vertical Steel Rebar Yield Strength ( $F_y$ ):	60 ksi
Horizontal Tie / Stirrup Size #:	4
Horizontal Tie / Stirrup Area:	0.20 in <sup>2</sup>
Design Horizontal Tie / Stirrup Spacing:	12.0 in
Horizontal Tie / Stirrup Steel Yield Strength ( $F_y$ ):	60 ksi
Rebar Cage Diameter:	64.0 in
Strength Bending/Tension Reduction Factor ( $\phi_B$ ):	0.90 ACI318-05 - 9.3.2.1
Strength Shear Reduction Factor ( $\phi_V$ ):	0.75 ACI318-05 - 9.3.2.3
Strength Compression Reduction Factor ( $\phi_P$ ):	0.65 ACI318-05 - 9.3.2.2
Steel Elastic Modulus:	29000 ksi
Design Moment ( $M_u$ ):	5730.6 k-ft
Nominal Moment Capacity ( $\phi_B M_n$ ):	6808.9 k-ft - ACI318-005 - 10.2
$M_u/\phi_B M_n$ :	0.84 Result: OK
Design Shear ( $V_u$ ):	718.3 k
Nominal Shear Capacity ( $\phi_V V_n$ ):	423.7 k - ACI318-05 - 11.3.1.1 or 11.5.7.2
$V_u/\phi_V V_n$ :	1.70 Result: OK
Design Tension ( $T_u$ ):	0.0 k
Nominal Tension Capacity ( $\phi_T T_n$ ):	2779.9 k - ACI318-05 - 10.2
$T_u/\phi_T T_n$ :	0.00 Result: OK
Design Compression ( $P_u$ ):	87.8 k
Nominal Compression Capacity ( $\phi_P P_n$ ):	5330.6 k - ACI318-05 - 10.3.6.2
$P_u/\phi_P P_n$ :	0.02 Result: OK
Bending Reinforcement Ratio:	0.013 ACI318-05 - 10.8.4 & 10.9.1
$M_u/\phi_B M_n + T_u/\phi_T T_n$ :	0.84 Result: OK

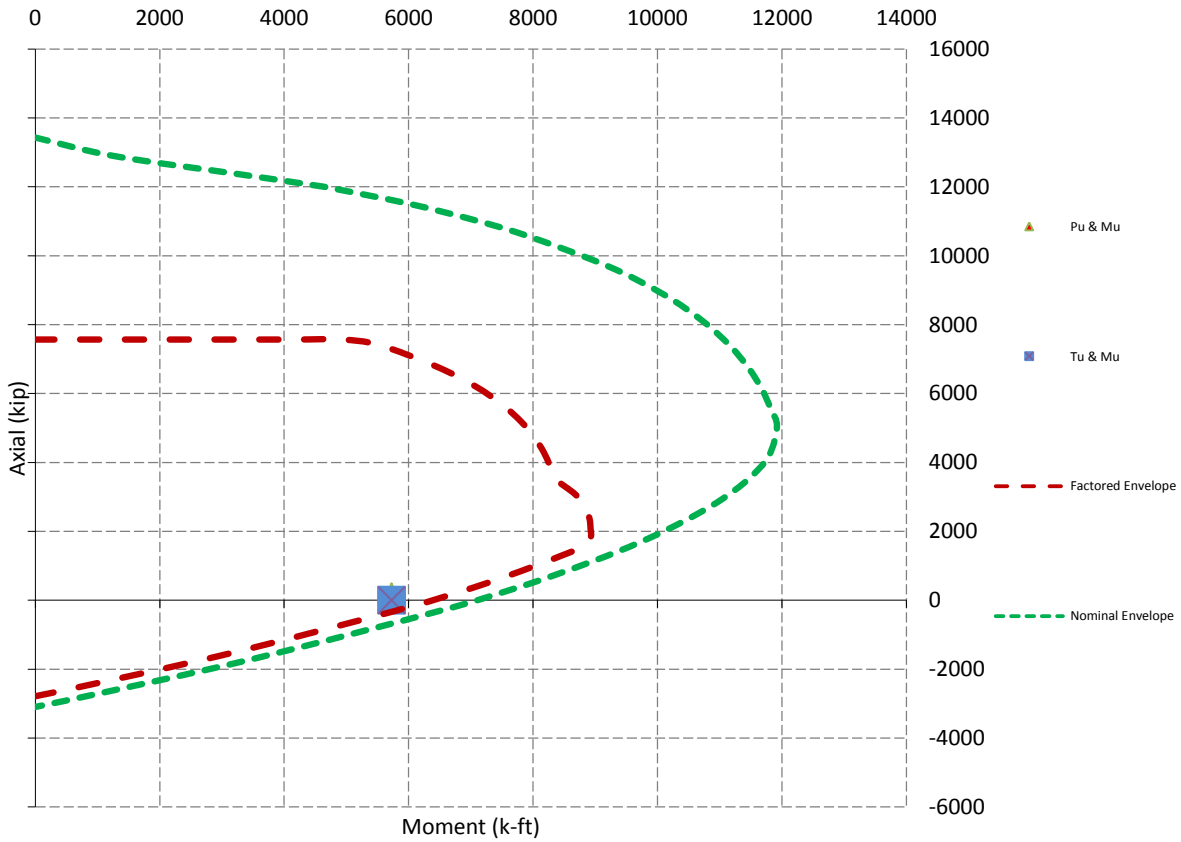
Design Factored Shear / Depth



Design Factored Moment / Depth



Nominal and Factored Moment Capacity and Factored Design Loads



Date 11/1/94 1994

House Number 185 Lot Number 776 Street RESEARCH DR.

Owner LOU D'AMATO

Owner's Address 183 QUARRY DR. MILFORD CT. State

Please check items below that apply to you

CONSTRUCTION: New  Alteration  Addition  Repair  Removal

TO BE OCCUPIED AS: One Family Residence  Garage  Shed  Pool

Other TELECOMMUNICATIONS SITE. RELOCATING ~~EXISTING~~ ~~INDUSTRIAL~~ ~~INDUSTRIAL~~ STRUCTURE. EVERYTHING ELSE REMAINS AS IS.

FOUNDATION: Basement Yes  No  Walls: Poured Concrete  Blocks  Other.....

Mason's name \_\_\_\_\_ Address \_\_\_\_\_

STRUCTURE: Frame  Brick  Stone  Conc. Block  Other.....

Interior Walls cover \_\_\_\_\_ Exterior walls cover \_\_\_\_\_

Carpenter's name \_\_\_\_\_ Address \_\_\_\_\_

PLUMBING: Connect to Sanitary Sewer  Septic Tank  Type of Flooring:

NO WATER OR SEWER Connect to City Water  Other water supply \_\_\_\_\_

Plumber's name \_\_\_\_\_ Address \_\_\_\_\_

HEATING: Heat by Coal  Oil  Gas  Hot air  Hot water  Steam

ELECTRICAL WORK must conform with the, **State** Electrical Code

Electrician's name \_\_\_\_\_ Address \_\_\_\_\_

Oil Burner Installer's name \_\_\_\_\_ Address \_\_\_\_\_

Plans in file

Please answer the following questions: FOR EXISTING BLDG. Number of Rooms 1 Number of Baths 0

Size of Building 10' x 20' Number of Floors 1 Floor Area 200 Zone HI

Size of Addition \_\_\_\_\_ Size of Pool \_\_\_\_\_

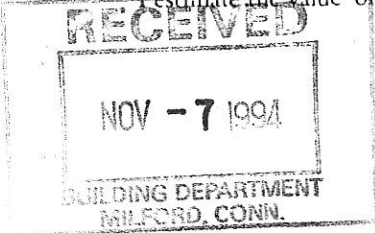
Lot Size \_\_\_\_\_ Map of \_\_\_\_\_ Recorded in Volume \_\_\_\_\_ Page \_\_\_\_\_

Is there a building on this lot now YES If so, how occupied INDUSTRIAL

Architect's name FRENCH AND MARRELL Address 670 N. BEERS ST. HOLMDEL, N.J. 07733

General Contractor's name CONNET CONST. Address 42 DAYTON RD. SUITE 213 JAMESBURG, N.J. 08531

Be sure to fill in Plot Plan and Data on inside of application. Estimate the value of this Work Will Be \$ 4130,000.00 Inspector's Est.: 4130,000.00



Applicant's Signature Peter Skator

Address ONE NORTH BROADWAY, 2<sup>ND</sup> FL.

City WHITE PLAINS, N.Y. Phone 914-448-4310

**APPROVED** 11/7/94  
**BUILDING DEPARTMENT**  
**MILFORD, CONN.**

BY Clarence J. Dolan

FEE PAID  
\$ 782.00  
Receipt No. 105379  
Cash   
Check   
M. O.

Permit Number 26294  
Date Issued 11-7-94

Address: 185 RESEARCH DRIVE



# City of Milford, Connecticut

## APPLICATION FOR ZONING PERMIT

**INSTRUCTIONS:** Fill out this application in ball point pen. A scaled plot plan in duplicate, based on a certified surveyor's plot plan must be submitted with this application showing the proposed or existing lot and building dimensions and the location of all buildings in relation to the street lines, side lot lines and rear lot lines.

ADDRESS OF PROPERTY 185 Research Drive ZONE G.I.

MAP \_\_\_\_\_ BLOCK \_\_\_\_\_ PARCEL \_\_\_\_\_ LOT NO. 607 ADDRESS MAP NO. \_\_\_\_\_ LOT SIZE \_\_\_\_\_  
WIDTH OF STREET RIGHT OF WAY LESS THAN 50 FT.? YES \_\_\_\_\_ NO  CORNER LOT? YES  NO \_\_\_\_\_

IS ANY PORTION OF THE LOT BELOW REGULATORY FLOOD ELEVATION? YES \_\_\_\_\_ NO

CITY WATER NA PRIVATE WELL\* \_\_\_\_\_ SEWER\*\* NA SEPTIC\*\*\* \_\_\_\_\_ ENG. O.S. PERMIT NO. NA

OWNER John C. D'Amato Jr. Trustee leased to Smart SMR of New York Inc

ADDRESS OF OWNER 147 Research Dr. Milford 575 Corporate Dr. Suite 402  
Street City Milford State N.J.  
07430

PRESENT USE OF PROPERTY 4 Industrial buildings

PROPOSED CONSTRUCTION: NEW  ADDITION \_\_\_\_\_ ALTERATION \_\_\_\_\_ REPAIR \_\_\_\_\_

SIZE/USE OF PROPOSED CONSTRUCTION install mobile radio transmission cellular tower facility  
tower base 4' tapers to 0'. 185' monopole with antenna array which will not  
extend more than 14' additional height

NO. OF STORIES \_\_\_\_\_ HEIGHT \_\_\_\_\_ REQUIRED PARKING SPACES \_\_\_\_\_ LOT COVERAGE \_\_\_\_\_ %

DATE OF: ZBA APPROVAL Oct 12, 93 CASPR APPROVAL \_\_\_\_\_ EXEMPTION ISSUED \_\_\_\_\_

SITE PLAN APPROVAL \_\_\_\_\_ SPECIAL PERMIT APPROVAL \_\_\_\_\_ SUBD. REQUIRED YES \_\_\_\_\_ NO \_\_\_\_\_

**CERTIFICATION:** (WARNING) I hereby certify that I am making this application on behalf of and with full authority of the owner of the property and that I am aware of the Zoning Regulations pertinent in this case and that the statements made herein are true and correct. APPROVAL SHALL BE VALID FOR PLANS AS SUBMITTED.

THE OCCUPANCY AND USE OF LAND AND BUILDINGS OR STRUCTURES PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY IS PROHIBITED.

APPROVED BY:  
Richard Vaccaro  
Zoning Enforcement Officer  
Date Issued 10/26/94

APPLICANTS'S NAME PETER FILATOV  
(Please print)  
APPLICANT'S SIGNATURE \_\_\_\_\_  
ADDRESS ONE N BROADWAY 2ND FL.  
CITY MILFORD Street STATE N.J.  
TEL. NO. 914-998-4316

\*Permit required from State Health Dept. for apartments, subdivisions, shopping centers and public buildings.  
\*\* Permits for sewer connections are granted by Sewer Commission.  
\*\*\* Septic system approvals are granted by Health Department.

