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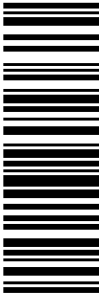
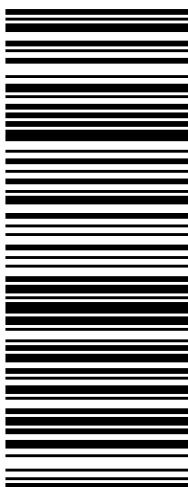

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UPS Access Point™  
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FOLD HERE

<p><b>1 LBS</b> <b>1 OF 1</b></p> <p>PATRICIA NOWAK 508-265-5599 CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379</p> <p><b>SHIP TO:</b> MELANIE A. BACHMAN 18608272935 CONNECTICUT SITING COUNCIL EXECUTIVE DIRECTOR TEN FRANKLIN SQUARE <b>NEW BRITAIN CT 06051-2655</b></p>	<p><b>CT 067 9-06</b></p> 	<p><b>UPS GROUND</b></p> <p>TRACKING #: 1Z 9Y4 503 03 2406 9119</p> 	<p><b>BILLING: P/P</b></p> <p>Reference # 1: CT2027 - CSC</p> <p>CS 22.0.12. WNTNV50 39.0A 11/2020*</p> 
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December 10, 2020

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

**Regarding: Notice of Exempt Modification – AT&T Site CT2027**  
**Address: 118 C Wintechog Hill Road, North Stonington, CT 06359**

Dear Ms. Bachman:

New Cingular Wireless, PCS, LLC ( hereinafter “AT&T”) currently maintains a wireless telecommunications facility on an existing 250’ self-support tower (the “Tower”) at the above-referenced address, latitude 41.459800, longitude -71.927300. Said Tower is owned by American Tower Corporation.

AT&T desires to modify its existing telecommunications facility on the Tower by swapping (6) antennas, swapping (3) remote radio units, adding (6) remote radio units and adding (1) surge arrestors with accompanying lines, as well as, other related modifications, as more particularly detailed and described in the enclosed Construction Drawings prepared by SMW Engineering Group, Inc., dated November 18, 2020. Please note this modification includes B2, B5, and B12 hardware that is both 4G (LTE) and 5GNR capable through remote software configuration and either or both services may be turned on or off at various times. Enclosed please also find an Antenna Mount Analysis Report prepared by American Tower Corporation dated November 5, 2020. The centerline height of the antennas will be at 175 feet.

The Tower was originally approved by the Connecticut Siting Council on April 30, 1990 under Docket No. 91A. Enclosed please find a copy of the Decision.

Please accept this letter 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). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to the following individuals: The Honorable Michael A. Urgo, First Selectman of the Town of North Stonington, CT; Juliet Hodge, Planning, Development, and Zoning Officer of the Town of North Stonington, CT; and American Tower Corporation, as Tower owner and property owner. Enclosed please find a property card and map of the property.

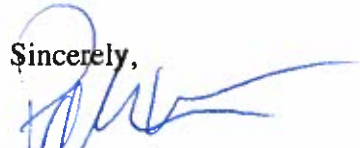
The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Specifically:

1. The proposed modifications will not result in an increase in the height of the existing structure.

2. The proposed modifications will not require an extension of the site boundary.
3. The proposed modifications will not increase 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 emissions at the facility to a level at or above the Federal Communications Commission safety standard. *Please see the enclosed Radio Frequency Emissions Report for AT&T's modified facility enclosed herewith.*
5. The proposed modifications will not cause an ineligible change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading. *Please see the Structural Analysis Report dated December 3, 2020 and prepared by American Tower Corporation.*

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

Sincerely,

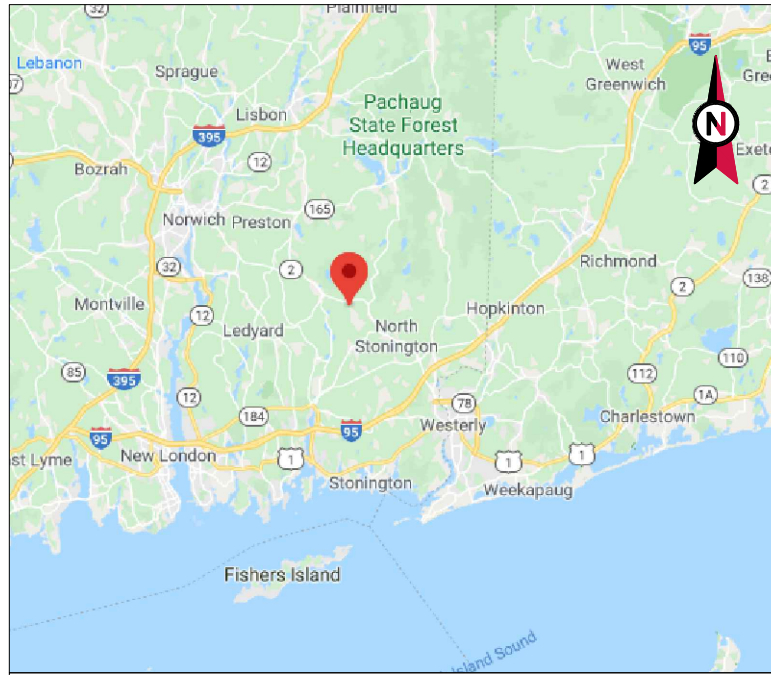


Patricia Nowak  
Site Acquisition Consultant  
Centerline Communications, LLC  
750 West Center Street, Suite 301  
West Bridgewater, MA 02379  
pnowak@clinellc.com

Enclosures:    Exhibit 1 – Construction Drawings  
                  Exhibit 2 - Mount Analysis  
                  Exhibit 3 – CSC Decision  
                  Exhibit 4 – Property Card and Map  
                  Exhibit 5 – Radio Frequency Emissions Report  
                  Exhibit 6 – Structural Analysis

cc:            The Honorable Michael A. Urgo, First Selectman of the Town of North Stonington, CT  
                  Juliet Hodge, Planning, Development, and Zoning Officer of the Town of North Stonington, CT  
                  American Tower Corporation, as Tower owner and property owner

# EXHIBIT 1



VICINITY MAP



**AMERICAN TOWER®**

ATC SITE NAME: NORTH STONINGTON CT  
 ATC SITE NUMBER: 6260  
 AT&T PACE NUMBER: MRCTB045021, MRCTB045072,  
 MRCTB045090, MRCTB045125, & MRCTB045087  
 AT&T SITE ID: CTL02027  
 AT&T FA CODE:10035003  
 AT&T SITE NAME: STONINGTON NORTH  
 PROJECTS: 2C, 3C, 4C, 5G NR  
 SITE ADDRESS: 118C WINTECHOG HILL RD., OFF OF RT. 2  
 NORTH STONINGTON, CT 06359-1228



LOCATION MAP

**AT&T MOBILITY  
 ANTENNA AMENDMENT DRAWINGS**

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.  1. INTERNATIONAL BUILDING CODE (IBC) 2. NATIONAL ELECTRIC CODE (NEC) 3. LOCAL BUILDING CODE 4. CITY/COUNTY ORDINANCES	<u>SITE ADDRESS:</u> 118C WINTECHOG HILL RD., OFF OF RT. 2 NORTH STONINGTON, CT 06359-1228  COUNTY: NEW LONDON  <u>GEOGRAPHIC COORDINATES:</u>  LATITUDE: 41.45983887 LONGITUDE: -71.92733765 GROUND ELEVATION: 448' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: <u>TOWER WORK:</u> REMOVE (6) ANTENNAS, (3) RRH'S, AND (6) UNUSED GSM COAX CABLES.  INSTALL (6) ANTENNAS, (9) RRH'S, (1) SQUID, (2) 0.78" 8AWG6 CABLES, (1) 0.39" FIBER CABLE, (1) HOME RUN UMTS RET CABLE, AND MOUNT MODIFICATIONS.  EXISTING (3) ANTENNA(S), (1) SQUID, (6) COAX CABLES TO REMAIN.  <u>GROUND WORK:</u> INSTALL (1) 6630, (1) XMU AND (1) IDLE CABLE.	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
	<u>PROJECT TEAM</u>  <u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801  <u>ENGINEER:</u> SMW ENGINEERING GROUP, INC. 128 BUSINESS CENTER DRIVE BIRMINGHAM, AL 35244 JOB# 20-10192  <u>PROPERTY OWNER:</u> AT&T SERVICES INC 754 PEACHTREE ST., NE 16TH FL ATLANTA, GA 30308	<u>PROJECT NOTES</u>  1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED.	G-001	COVER SHEET	0	11/18/20	ZDS
<u>UTILITY COMPANIES</u>  POWER COMPANY: NOT PROVIDED PHONE: NOT PROVIDED  TELEPHONE COMPANY: AT&T PHONE: (800) 331-0500	<u>APPLICANT:</u> AT&T MOBILITY  <u>CONSULTING ENGINEER</u> JOHN LIU, PE (423) 541-0561 JOHNLIU@TELECOM.TEAM	<u>PROJECT LOCATION DIRECTIONS</u>  TAKE I-395 TO EXIT 85 TO RTE 164 SOUTH; RIGHT ON RT 2 EAST. THEN RIGHT ON WINTECHOG HILL RD. LEFT AT THE BUSINESS ENTRANCE OF GREENHOUSE. & FOLLOW THE DIRT RD TO THE TOWER	G-002	GENERAL NOTES	0	11/18/20	ZDS
			C-101	DETAILED SITE PLAN	0	11/18/20	ZDS
			C-102	SHELTER LAYOUT	0	11/18/20	ZDS
			C-201	TOWER ELEVATION	0	11/18/20	ZDS
			C-401	RF SCHEDULE AND ANTENNA INSTALLATION	0	11/18/20	ZDS
			C-501	CONSTRUCTION DETAILS	0	11/18/20	ZDS
			E-501	GROUNDING DETAILS	0	11/18/20	ZDS
			C-502	EQUIPMENT SPECIFICATIONS	0	11/18/20	ZDS
			R-601	SUPPLEMENTAL			
			R-602	SUPPLEMENTAL			
			--	MOUNT REINFORCEMENT DRAWINGS			

**AMERICAN TOWER®**

**SMW ENGINEERING GROUP, INC.**  
 TOGETHER PLANNING A BETTER TOMORROW  
 158 BUSINESS CENTER DRIVE  
 BIRMINGHAM, AL 35244  
 TEL: 205-252-6985 FAX: 205-320-1504

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	ZDS	11/18/20

ATC SITE NUMBER:  
**6260**  
 ATC SITE NAME:  
**NORTH STONINGTON CT**  
  
 SITE ADDRESS:  
 118C WINTECHOG HILL RD., OFF OF RT. 2  
 NORTH STONINGTON, CT 06359-1228

SEAL:

STATE OF CONNECTICUT  
 JOHN T. LIU  
 No. 33078  
 LICENSED PROFESSIONAL ENGINEER  
 11/19/2020  
 11/18/20

DATE DRAWN: 04/30/20  
 ATC JOB NO: 367079  
 CUSTOMER ID: 10035003  
 CUSTOMER #: 20-10192

**COVER SHEET**

SHEET NUMBER: **G-001** REVISION: **0**

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**GENERAL CONSTRUCTION NOTES:**

1. OWNER FURNISHED MATERIALS, AT&T MOBILITY "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
  - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
  - B. AC/TELCO INTERFACE BOX (PPC)
  - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
  - D. TOWERS, MONOPOLES
  - E. TOWER LIGHTING
  - F. GENERATORS & LIQUID PROPANE TANK
  - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
  - H. ANTENNAS (INSTALLED BY OTHERS)
  - I. TRANSMISSION LINE
  - J. TRANSMISSION LINE JUMPERS
  - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
  - L. TRANSMISSION LINE GROUND KITS
  - M. HANGERS
  - N. HOISTING GRIPS
  - O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF AT&T MOBILITY TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE AT&T MOBILITY REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE AT&T MOBILITY REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE AT&T MOBILITY REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE AT&T MOBILITY CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE AT&T MOBILITY REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH AT&T MOBILITY AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T MOBILITY REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL

- ALL ITEMS PROVIDED.
22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T MOBILITY REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY AT&T MOBILITY MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
  23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T MOBILITY SPECIFICATIONS AND REQUIREMENTS.
  24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T MOBILITY FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
  25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO AT&T MOBILITY SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
  26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
  27. CONTRACTOR SHALL NOTIFY AT&T MOBILITY REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
  28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
  29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
  30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE AT&T MOBILITY REP. ANY WORK FOUND BY THE AT&T MOBILITY REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
  31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
  32. AT&T MOBILITY FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE AT&T MOBILITY WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNGRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
  33. AT&T MOBILITY OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO AT&T MOBILITY OR THEIR ARCHITECT/ENGINEER.

**SPECIAL CONSTRUCTION**

**ANTENNA INSTALLATION NOTES:**

1. WORK INCLUDED:
  - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T MOBILITY UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
  - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND AT&T MOBILITY SPECIFICATIONS.
  - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
  - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.
  - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
  - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
  - G. ANTENNA AND COAXIAL CABLE GROUNDING:
2. ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE

WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.

3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.



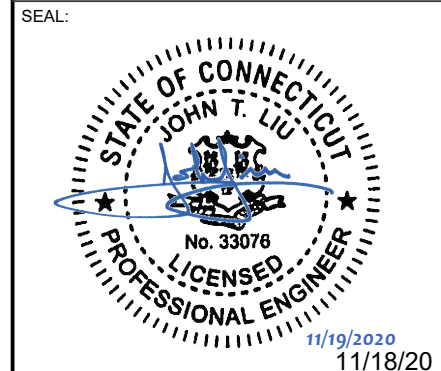
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 158 BUSINESS CENTER DRIVE  
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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	ZDS	11/18/20

ATC SITE NUMBER:  
**6260**

ATC SITE NAME:  
**NORTH STONINGTON CT**

SITE ADDRESS:  
 118C WINTECHOG HILL RD., OFF OF RT. 2  
 NORTH STONINGTON, CT 06359-1228



DATE DRAWN:	04/30/20
ATC JOB NO:	367079
CUSTOMER ID:	10035003
CUSTOMER #:	20-10192

**GENERAL NOTES**

SHEET NUMBER: <b>G-002</b>	REVISION: <b>0</b>
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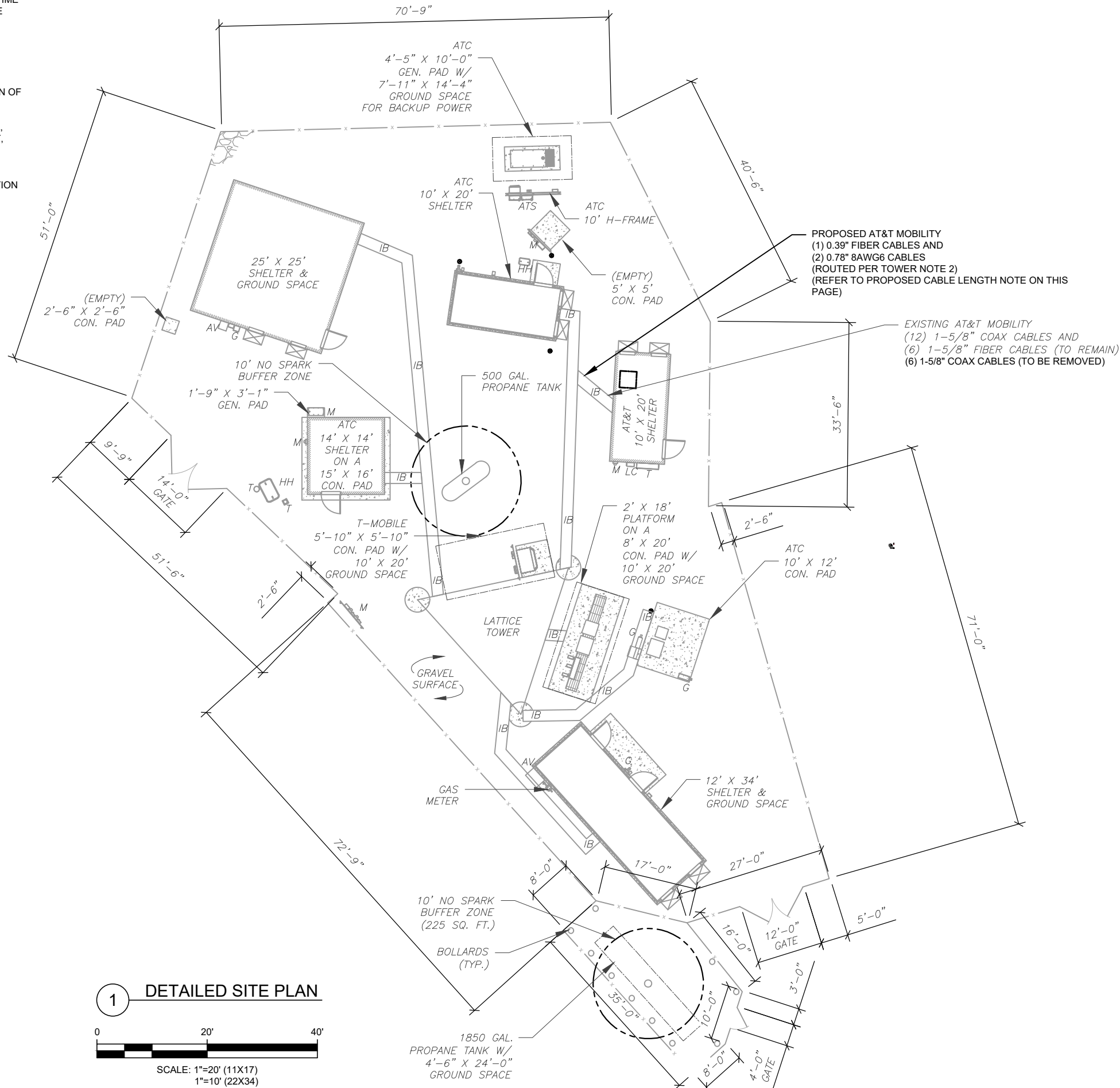
**SITE PLAN NOTES:**

- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
- THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

LEGEND	
⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACAL
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
— x —	CHAINLINK FENCE

**PROPOSED CABLE LENGTH:**

- ESTIMATED LENGTH OF PROPOSED CABLE IS **216'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES). CDS DEFER TO GREATEST CABLE LENGTH.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).



**1 DETAILED SITE PLAN**  
 SCALE: 1"=20' (11X17)  
 1"=10' (22X34)



**AMERICAN TOWER®**

**SMW ENGINEERING GROUP, INC.**  
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 158 BUSINESS CENTER DRIVE  
 BIRMINGHAM, AL 35244  
 TEL: 205-252-6985 FAX: 205-320-1504

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	ZDS	11/18/20

ATC SITE NUMBER:  
**6260**

ATC SITE NAME:  
**NORTH STONINGTON CT**

SITE ADDRESS:  
 118C WINTECHOG HILL RD., OFF OF RT. 2  
 NORTH STONINGTON, CT 06359-1228

SEAL:

11/19/2020  
 11/18/20

DATE DRAWN:	04/30/20
ATC JOB NO:	367079
CUSTOMER ID:	10035003
CUSTOMER #:	20-10192

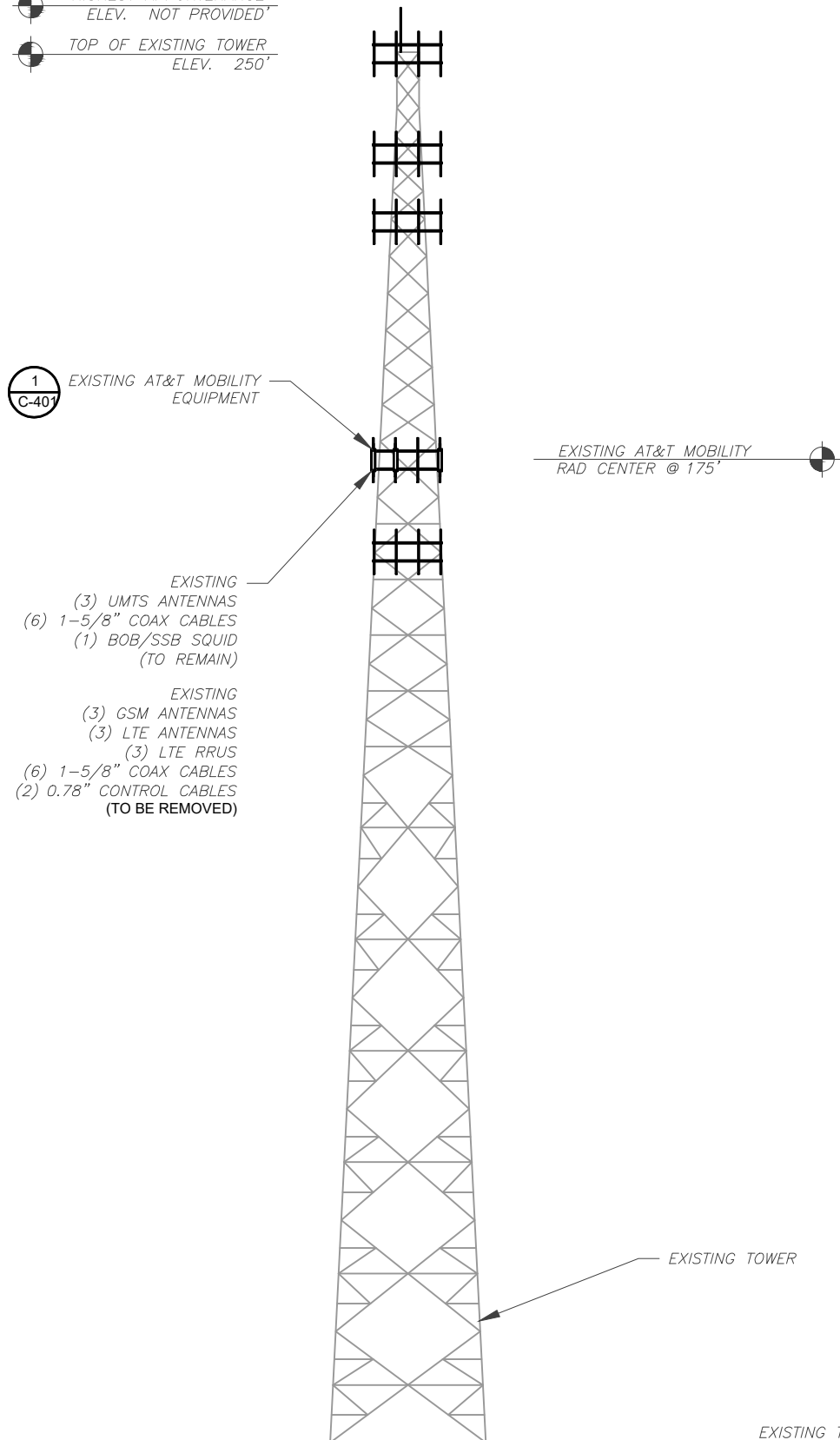
**DETAILED SITE PLAN**

SHEET NUMBER:	REVISION:
<b>C-101</b>	<b>0</b>

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EXISTING AND FINAL CONFIGURATIONS ARE BASED ON RFDS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.

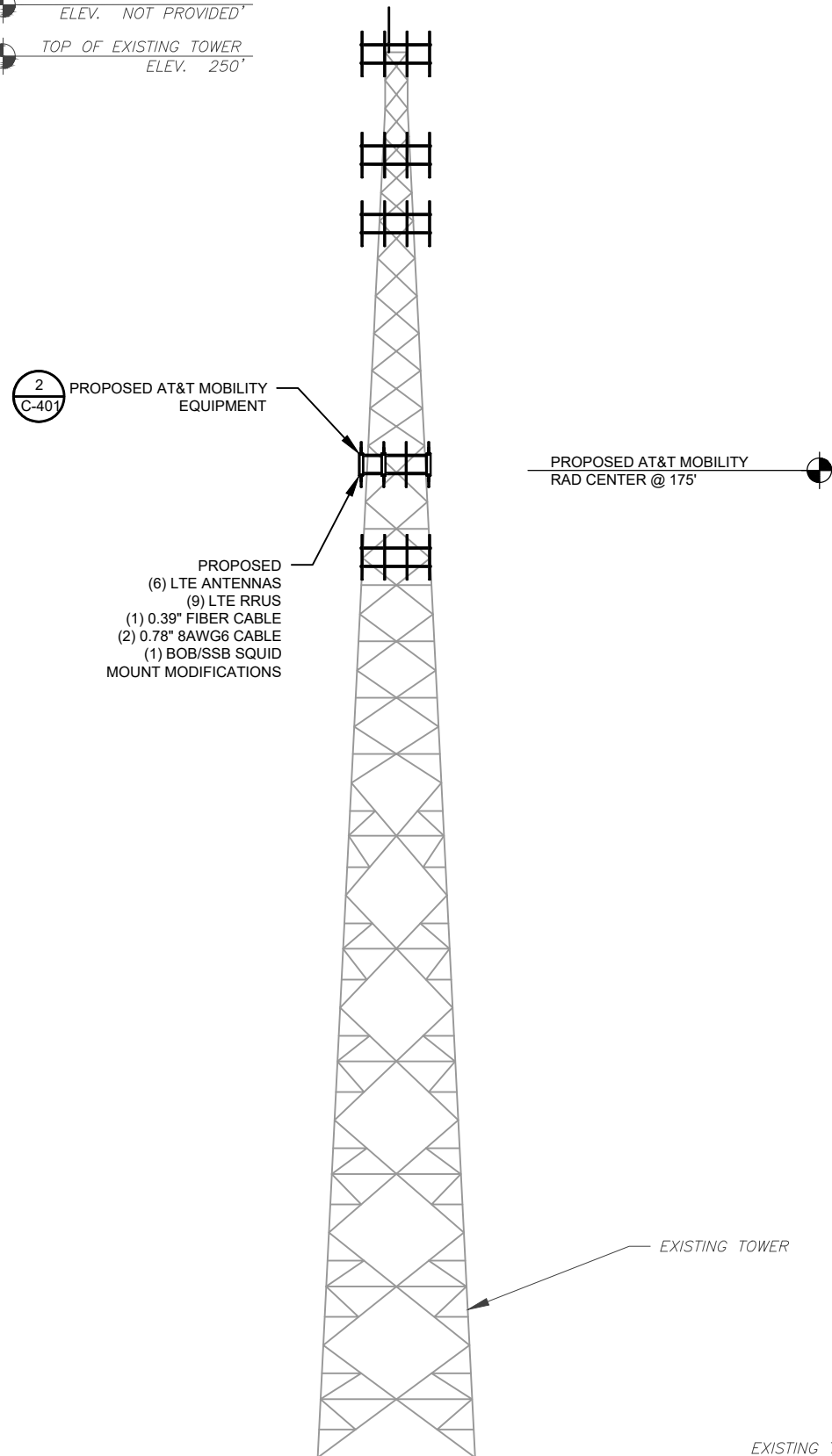
TOP OF EXISTING HIGHEST APPURTENANCE ELEV. NOT PROVIDED  
 TOP OF EXISTING TOWER ELEV. 250'



1 EXISTING TOWER ELEVATION  
 SCALE: 1"=30'

THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. THE PROPOSED MOUNT MODIFICATION, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT

TOP OF EXISTING HIGHEST APPURTENANCE ELEV. NOT PROVIDED  
 TOP OF EXISTING TOWER ELEV. 250'



2 FINAL TOWER ELEVATION  
 SCALE: 1"=30'

TOWER NOTE:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE AMERICAN TOWER CONSTRUCTION MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
- TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

SCOPE OF WORK:

- WHEN STACKING CABLES 3 OR MORE DEEP, USE STACKABLE SNAP-INS, TALLEY PART NUMBER SSH-158-3 (OR ENGINEER APPROVED EQUAL).
- CONTRACTOR SHALL CONFIRM THE FINAL CABLE ROUTING PLAN WITH THE STRUCTURAL ANALYSIS.

COAXIAL CABLE NOTES:

- CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION. REFER TO "ANTENNA SYSTEM LABELING STANDARD" ND-00027 LATEST VERISON.
- CONTRACTOR SHALL WEATHERPROOF ALL ANTENNA CONNECTORS WITH SELF AMALGAMATING TAPE. WEATHERPROOFING SHALL BE COMPLETED IN STRICT ACCORDANCE WITH AT&T STANDARDS.
- CONTRACTOR SHALL GROUND ALL EQUIPMENT. INCLUDING ANTENNAS, RET MOTORS, TMA'S, COAX CABLES, AND RET CONTROL CABLES AS A COMPLETE SYSTEM. GROUNDING SHALL BE EXECUTED BY QUALIFIED WIREMEN IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATION AND RECOMMENDATION.
- CONTRACTOR TO VERIFY THAT EXISTING COAX HANGERS ARE STACKABLE SNAP IN HANGERS. IF EXISTING HANGERS ARE NOT STACKABLE SNAP IN HANGERS THE CONTRACTOR SHALL REPLACE EXISTING HANGERS WITH NEW SNAP IN HANGERS IF APPLICABLE.



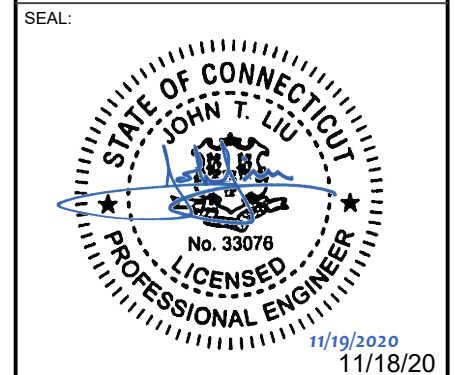
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 BIRMINGHAM, AL 35244  
 TEL: 205-252-6985 FAX: 205-320-1504

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	ZDS	11/18/20

ATC SITE NUMBER:  
**6260**

ATC SITE NAME:  
**NORTH STONINGTON CT**

SITE ADDRESS:  
 118C WINTECHOG HILL RD., OFF OF RT. 2  
 NORTH STONINGTON, CT 06359-1228



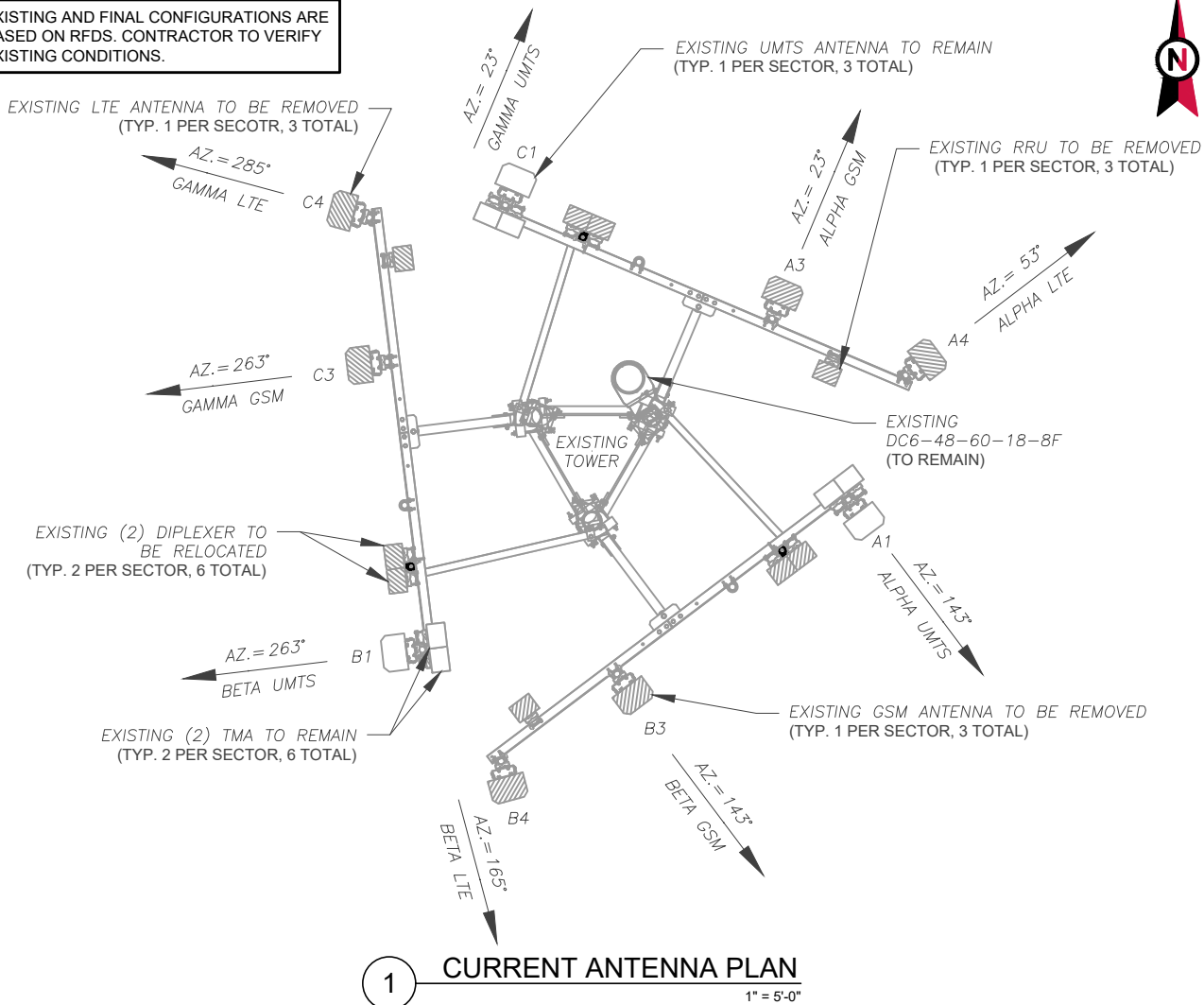
DATE DRAWN:	04/30/20
ATC JOB NO:	367079
CUSTOMER ID:	10035003
CUSTOMER #:	20-10192

<b>TOWER ELEVATION</b>	
SHEET NUMBER: <b>C-201</b>	REVISION: <b>0</b>

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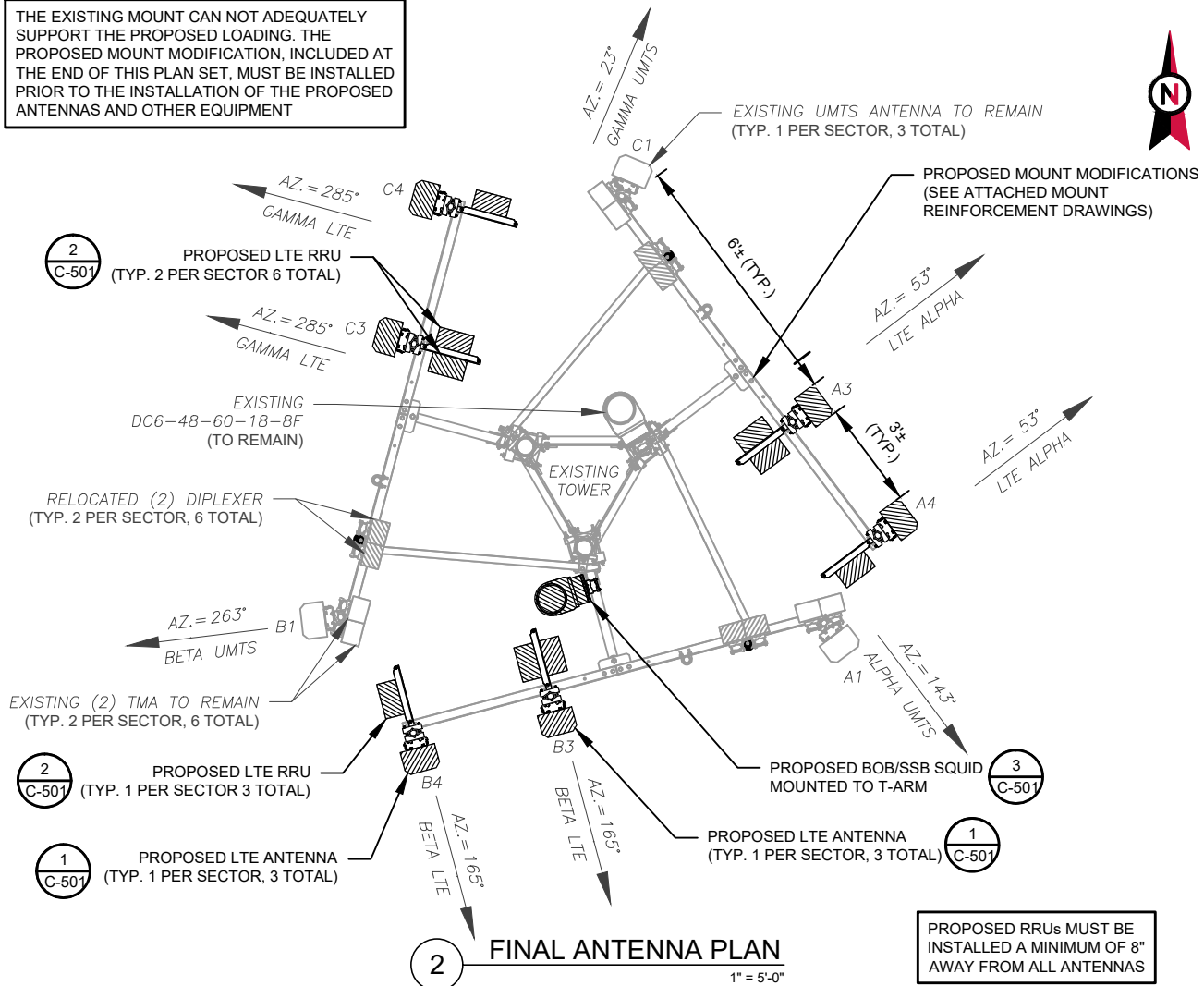


EXISTING AND FINAL CONFIGURATIONS ARE BASED ON RFDS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.



1 CURRENT ANTENNA PLAN  
1" = 5'-0"

THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. THE PROPOSED MOUNT MODIFICATION, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT



2 FINAL ANTENNA PLAN  
1" = 5'-0"

PROPOSED RRUs MUST BE INSTALLED A MINIMUM OF 8" AWAY FROM ALL ANTENNAS

CURRENT ANTENNA SCHEDULE									
LOCATION				ANTENNA SUMMARY			NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	
ALPHA	175'	143°	A1	ALLGON 7770.0	UMTS	RMN	(2) LGP17201 TMA	RMN	
		-	A2	-	-	-	(2) LGP21901 DIPLEXER	REL	
		23°	A3	ALLGON 7770	GSM	RMV	-	-	
		53°	A4	KMW AM-X-CD-14-65-00TRET	LTE	RMV	ERICSSON RRUS-11	RMV	
BETA	175'	263°	B1	ALLGON 7770.0	UMTS	RMN	(2) LGP17201 TMA	RMN	
		-	B2	-	-	-	(2) LGP21901 DIPLEXER	REL	
		143°	B3	ALLGON 7770	GSM	RMV	-	-	
		165°	B4	KMW AM-X-CD-14-65-00TRET	LTE	RMV	ERICSSON RRUS-11	RMV	
GAMMA	175'	23°	C1	ALLGON 7770.0	UMTS	RMN	(2) LGP17201 TMA	RMN	
		-	C2	-	-	-	(2) LGP21901 DIPLEXER	REL	
		263°	C3	ALLGON 7770	GSM	RMV	-	-	
		285°	C4	KMW AM-X-CD-14-65-00TRET	LTE	RMV	ERICSSON RRUS-11	RMV	

- NOTES
- BASED ON APPROVED ATC APPLICATION 367079, DATED 04/16/2020. CONFIRM WITH AT&T MOBILITY REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
  - ATC HAS NOT YET VERIFIED ANY EXISTING ANTENNA CONFIG OR MOUNT CONFIG. CONTRACTOR TO VERIFY MOUNT CONFIG HAS SUFFICIENT SPACE FOR PROPOSED LESSEE EQUIPMENT (EQUIP) (I.E. CLEARANCES, MOUNT PIPE, SUFFICIENT LENGTH, ETC.) ATC DID NOT ANALYZE ANTENNA MOUNT TO DETERMINE ADEQUATE STRUCTURAL CAPACITY FOR ANY LESSEE LOADING.
  - ALL PROPOSED EQUIP INCLUDING ANTENNAS, COAX, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS ON FILE WITH ATC'S CM.
  - CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
  - POSITIONS START WITH FIRST PIPE ON THE LEFT SIDE (AS VIEWED FROM BEHIND THE MOUNT).

FINAL ANTENNA SCHEDULE									
LOCATION				ANTENNA SUMMARY			NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	
ALPHA	175'	143°	A1	ALLGON 7770.0	UMTS	RMN	(2) LGP17201 TMA	RMN	
		-	A2	-	-	-	(2) LGP21901 DIPLEXER	REL	
		53°	A3	CCI OPA65R-BU8D	LTE	ADD	RRUS-4478 B14	ADD	
		53°	A4	CCI DMP65R-BU8D	LTE	ADD	RRUS-8843 B2/B66A	ADD	
BETA	175'	263°	B1	ALLGON 7770.0	UMTS	RMN	(2) LGP17201 TMA	RMN	
		-	B2	-	-	-	(2) LGP21901 DIPLEXER	REL	
		165°	B3	CCI OPA65R-BU8D	LTE	ADD	RRUS-4478 B14	ADD	
		165°	B4	CCI DMP65R-BU8D	LTE	ADD	RRUS-8843 B2/B66A	ADD	
GAMMA	175'	23°	C1	ALLGON 7770.0	UMTS	RMN	(2) LGP17201 TMA	RMN	
		-	C2	-	-	-	(2) LGP21901 DIPLEXER	REL	
		285°	C3	CCI OPA65R-BU8D	LTE	ADD	RRUS-4478 B14	ADD	
		285°	C4	CCI DMP65R-BU8D	LTE	ADD	RRUS-8843 B2/B66A	ADD	

EXISTING FIBER DISTRIBUTION/SQUID		EXISTING CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
DC6-48-60-18-8F	RMN	-	(2) 0.78" 8AWG6	(1) 0.39"	-
-	-	-	-	-	-

STATUS ABBREVIATIONS  
 RMV: TO BE REMOVED  
 RMN: TO REMAIN  
 REL: TO BE RELOCATED  
 DSC: TO BE DISCONNECTED & REMAIN  
 ADD: TO BE ADDED

3 EQUIPMENT SCHEDULES

CABLE LENGTHS FOR JUMPERS  
 FIBER DISTRIBUTION/SQUID TO RRU: 15'  
 RRU TO ANTENNA: 10'

FINAL FIBER DISTRIBUTION/SQUID		FINAL CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
DC6-48-60-18-8F	RMN	-	(2) 0.78" 8AWG6	(1) 0.39"	RMN
DC6-48-60-18-8F	ADD	-	(2) 0.78" 8AWG6	(1) 0.39"	ADD

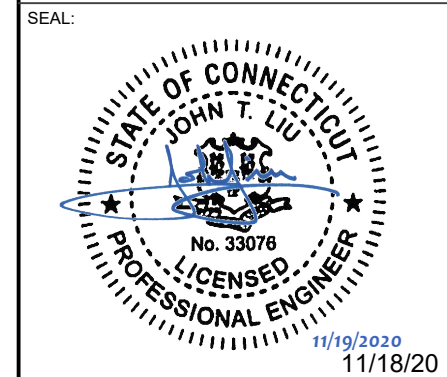


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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	ZDS	11/18/20

ATC SITE NUMBER:  
**6260**  
 ATC SITE NAME:  
**NORTH STONINGTON CT**

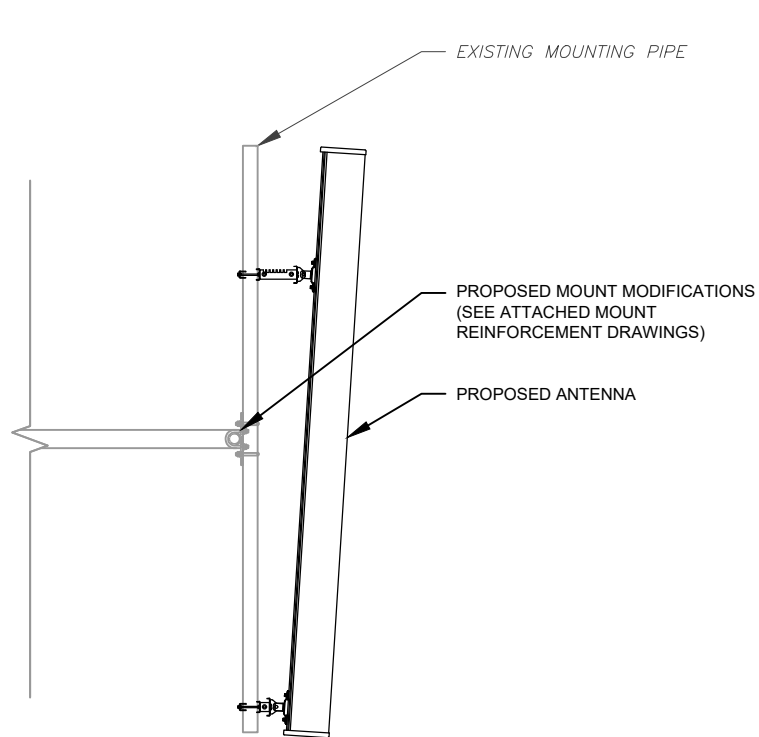
SITE ADDRESS:  
 118C WINTCHOG HILL RD., OFF OF RT. 2  
 NORTH STONINGTON, CT 06359-1228



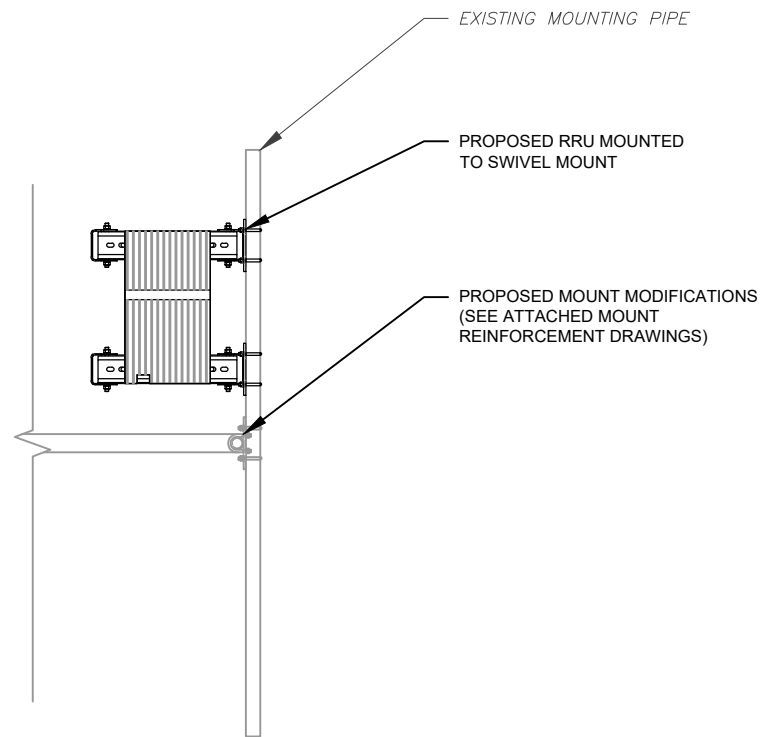
DATE DRAWN:	04/30/20
ATC JOB NO:	367079
CUSTOMER ID:	10035003
CUSTOMER #:	20-10192

RF SCHEDULE AND ANTENNA INSTALLATION

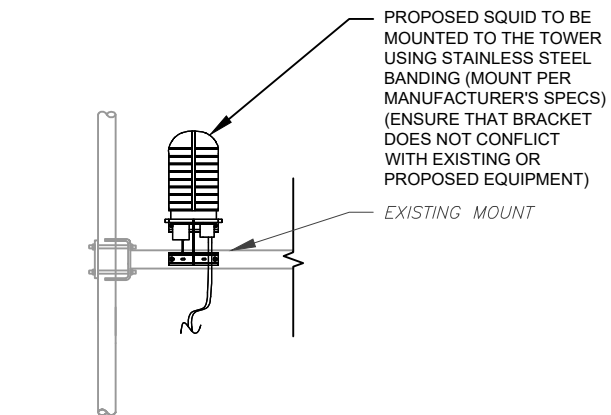
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**C-401**  
 REVISION:  
**0**



1 ANTENNA DETAIL  
SCALE: N.T.S.



2 RRU DETAIL  
SCALE: N.T.S.



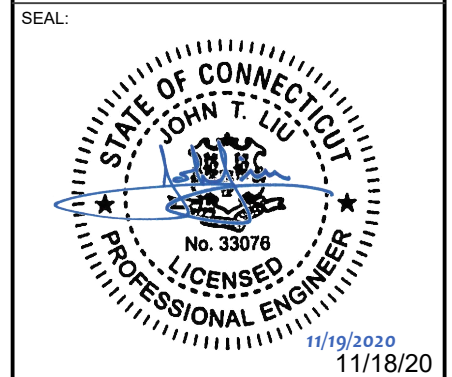
3 PROPOSED SQUID MOUNTING  
SCALE: NOT TO SCALE



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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	ZDS	11/18/20

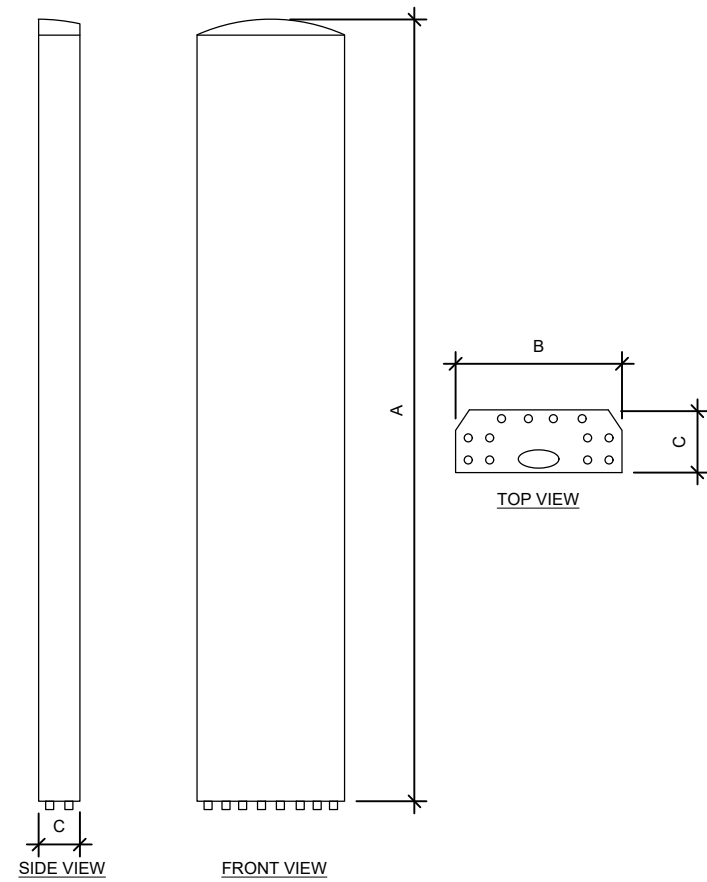
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**6260**  
ATC SITE NAME:  
**NORTH STONINGTON CT**  
SITE ADDRESS:  
118C WINTECHOG HILL RD., OFF OF RT. 2  
NORTH STONINGTON, CT 06359-1228



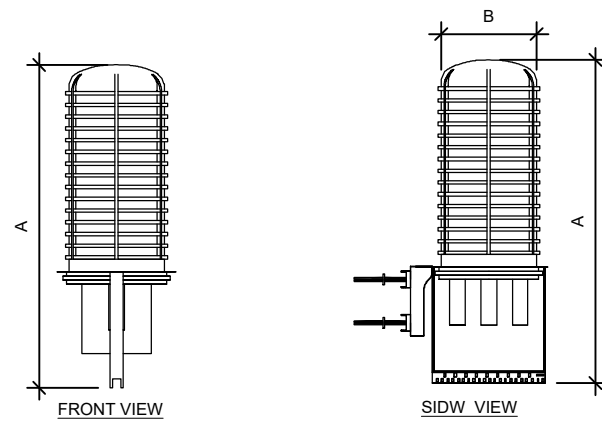
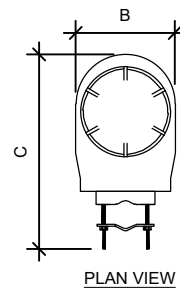
DATE DRAWN:	04/30/20
ATC JOB NO:	367079
CUSTOMER ID:	10035003
CUSTOMER #:	20-10192

**CONSTRUCTION  
DETAILS**

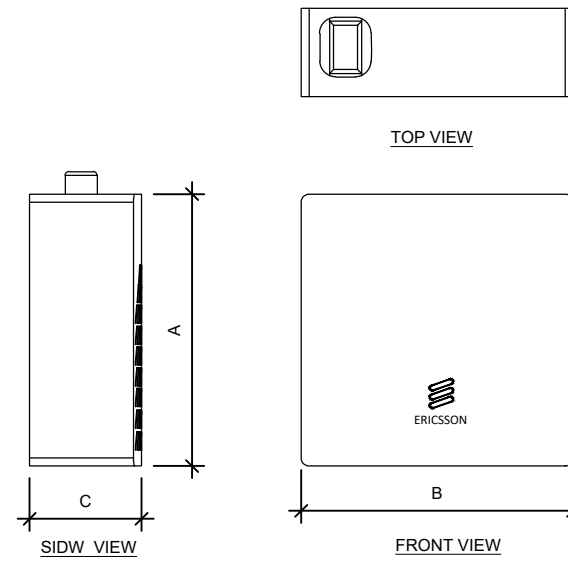
SHEET NUMBER: <b>C-501</b>	REVISION: <b>0</b>
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ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
OPA65R-BU8D	96.0"	21.0"	7.8"	76.5
DMP65R-BU8D	96.0"	20.7"	7.7"	95.7



RAYCAP SPECIFICATIONS				
-	A	B	C	WEIGHT (LBS)
DC6-48-60-18-F	23.5"	9.7"	9.7"	20



RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
4449 B5, B12	17.9"	13.2"	9.4"	71.0
RRUS 8843 B2/B66A	14.9"	13.2"	10.9"	72.0"
4478 B14	18.1"	13.4"	8.3"	59.4

**1** EQUIPMENT SPECIFICATIONS  
SCALE: NOT TO SCALE

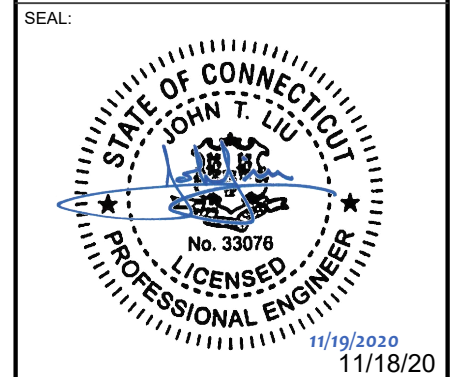


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158 BUSINESS CENTER DRIVE  
BIRMINGHAM, AL 35244  
TEL: 205-252-6985 FAX: 205-320-1504

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0	FOR CONSTRUCTION	ZDS	11/18/20

ATC SITE NUMBER:  
**6260**  
ATC SITE NAME:  
**NORTH STONINGTON CT**

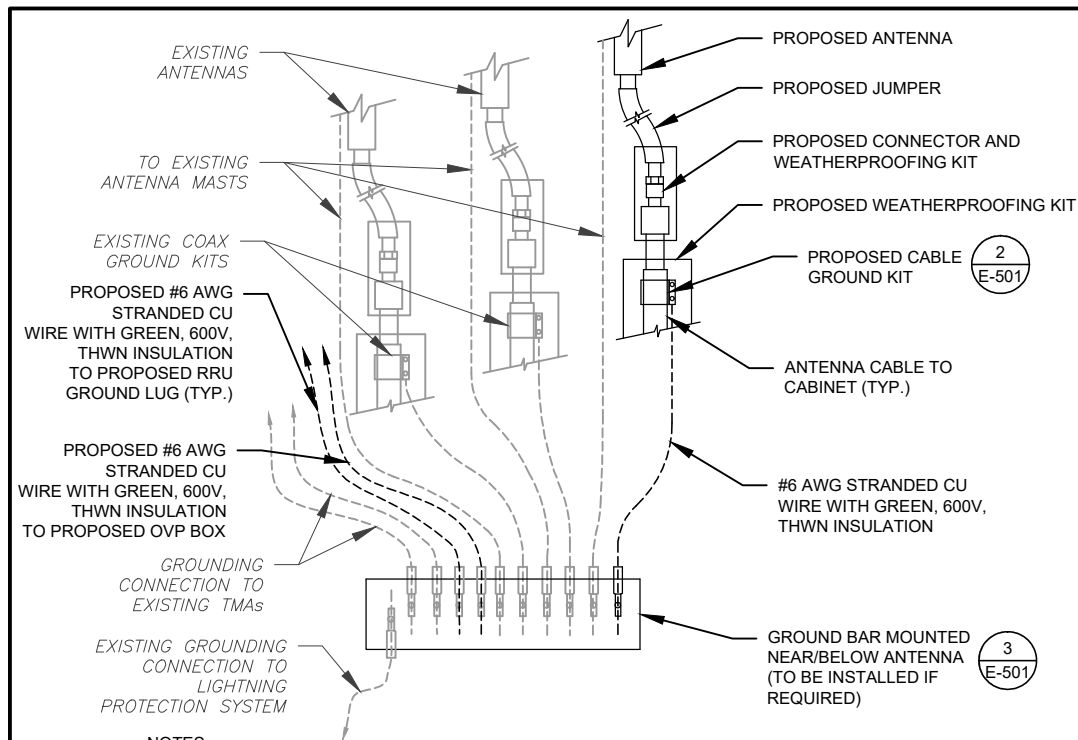
SITE ADDRESS:  
118C WINTECHOG HILL RD., OFF OF RT. 2  
NORTH STONINGTON, CT 06359-1228



DATE DRAWN:	04/30/20
ATC JOB NO:	367079
CUSTOMER ID:	10035003
CUSTOMER #:	20-10192

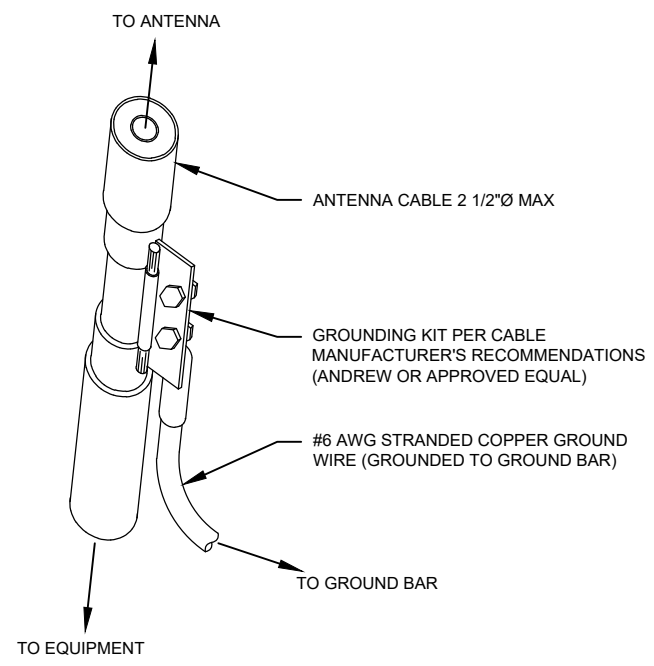
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SHEET NUMBER:  
**C-502**  
REVISION:  
**0**



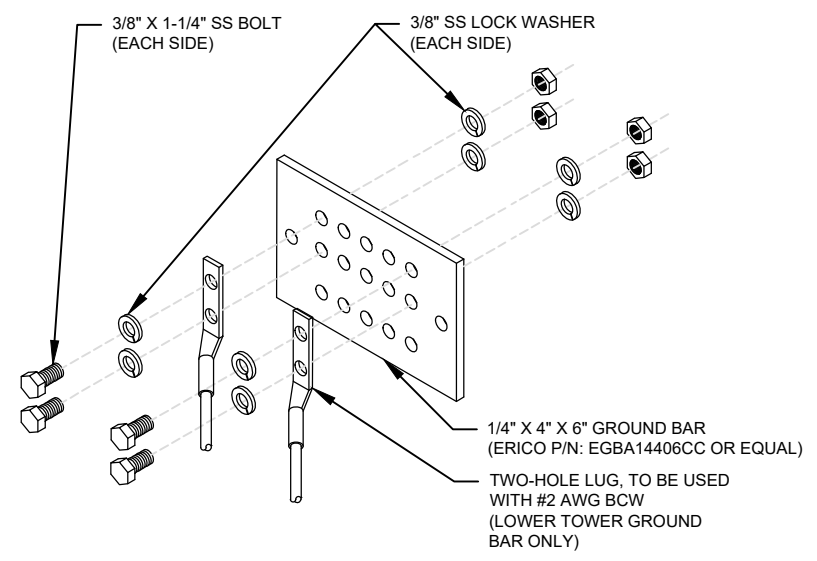
- NOTES:**
1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
  2. SITE GROUNDING SHALL COMPLY WITH AT&T MOBILITY GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T MOBILITY GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

**1 TYPICAL ANTENNA GROUNDING DIAGRAM**  
SCALE: N.T.S.



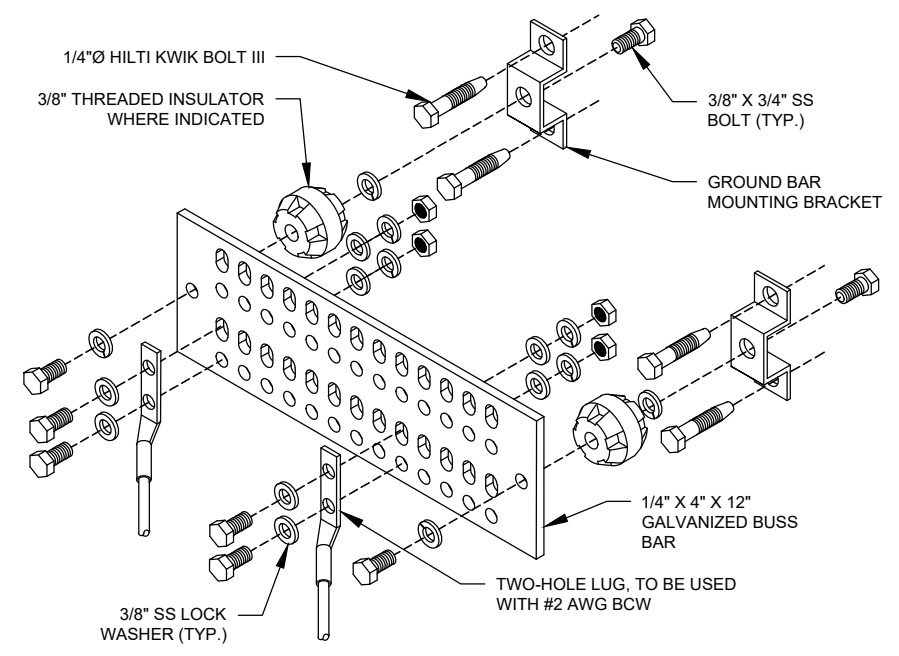
- GROUND KIT NOTES:**
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
  2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

**2 CABLE GROUND KIT CONNECTION DETAIL**  
SCALE: N.T.S.



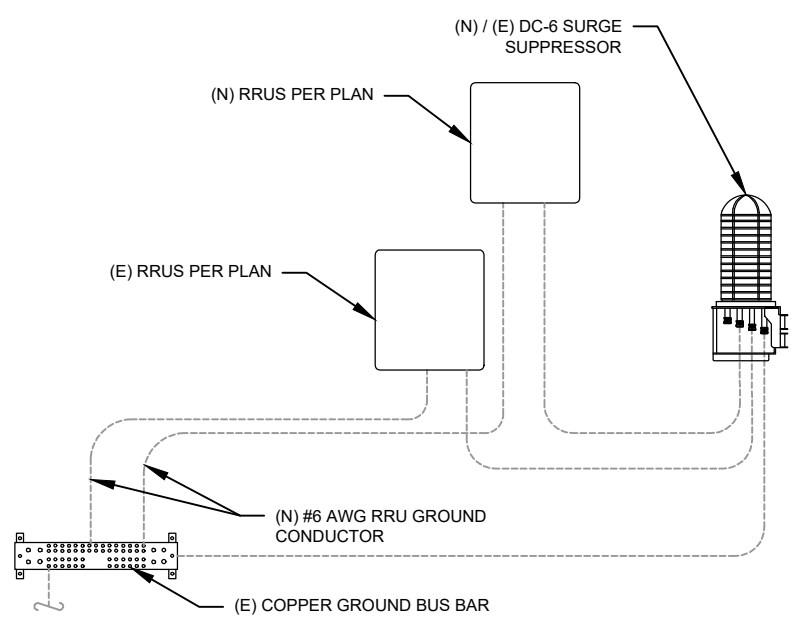
- GROUND BAR NOTES:**
1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
  2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

**3 TOWER GROUND BAR DETAIL**  
SCALE: N.T.S.

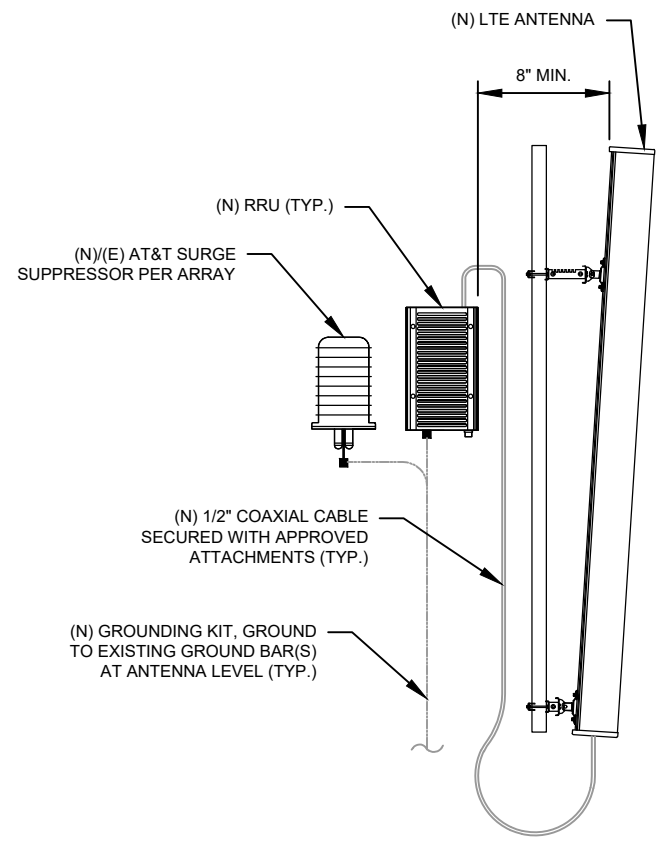


- GROUND BAR NOTES**
1. GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
  2. GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.

**4 MAIN GROUND BAR DETAIL**  
SCALE: N.T.S.



**5 RRU GROUNDING**  
SCALE: N.T.S.



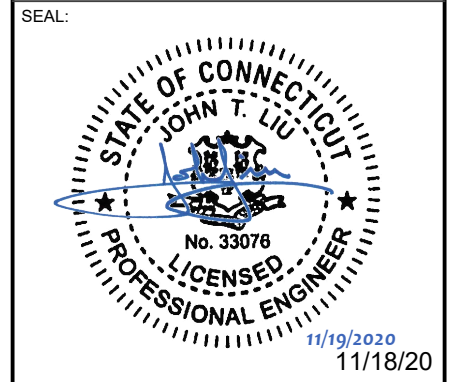
**6 ANTENNA/RRU GROUNDING**  
SCALE: N.T.S.



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0	FOR CONSTRUCTION	ZDS	11/18/20

ATC SITE NUMBER:  
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118C WINTECHOG HILL RD., OFF OF RT. 2  
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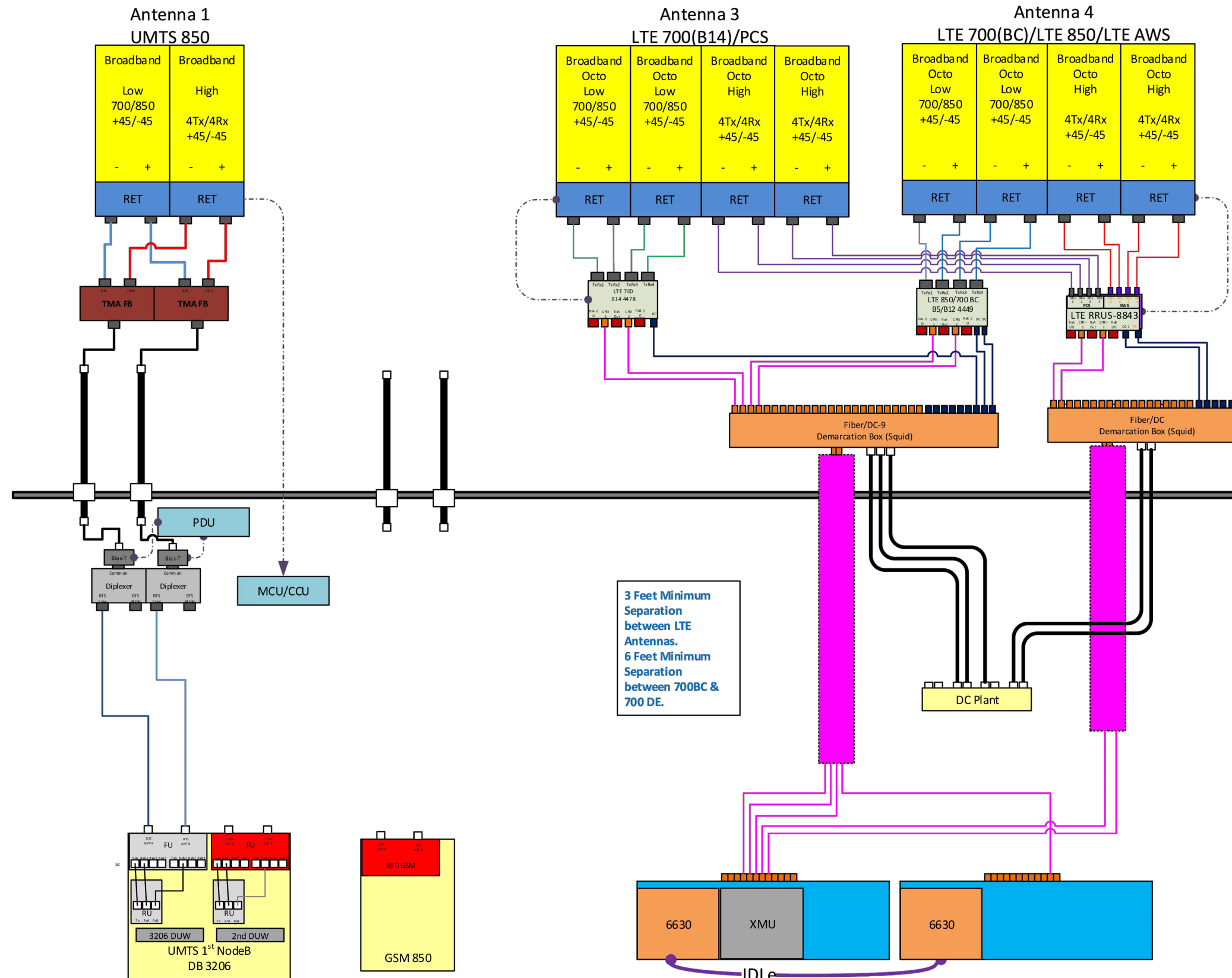
DATE DRAWN:	04/30/20
ATC JOB NO:	367079
CUSTOMER ID:	10035003
CUSTOMER #:	20-10192

**GROUNDING DETAILS**

SHEET NUMBER:  
**E-501**

REVISION:  
**0**

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1 PLUMBING DIAGRAM  
SCALE: NOT TO SCALE

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER: R-601  
REVISION: 0



## Antenna Mount Analysis Report

**ATC Site Name** : NORTH STONINGTON CT, CT  
**ATC Site Number** : 6260  
**Engineering Number** : 13151947\_C9\_08  
**Mount Elevation** : 173 ft  
**Carrier** : AT&T Mobility  
**Carrier Site Name** : MRCTB045090  
**Carrier Site Number** : CTL02027  
**Site Location** : 118C Wintechog Hill Rd., off of Rt. 2  
 North Stonington, CT 06359-1228  
 41.45983887 , -71.92733765  
**County** : New London  
**Date** : November 5, 2020  
**Max Usage** : 94%  
**Result** : Contingent Pass

Prepared By:  
 Mitchell Chen  
 Structural Engineer I

Reviewed By:

COA: PEC.0001553

A.T. Engineering Service, PLLC - 3500 Regency Parkway, Suite 100 - Cary, NC 27518 - 919.468.0112 Office - 919.466.5414 Fax - www.americantower.com



Eng. Number 13151947\_C9\_08  
 November 5, 2020  
 Page 1

### Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for AT&T Mobility at 173 ft.

### Supporting Documents

Mount Mapping	ETS Project #204318.IE.01, dated October 6, 2020
Radio Frequency Data Sheet	RFDS ID #10035003, dated February 26, 2020
Reference Photos	Site photos from 2019

### Analysis

This antenna mount was analyzed using American Tower Corporation's Mount Analysis Program and RISA-3D

Basic Wind Speed:	127 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1" radial ice concurrent
Codes:	ANSI/TIA-222-H
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 2
Feature:	Flat
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	Ss = 0.188, S1 = 0.053
Site Class:	D - Stiff Soil
Live Loads:	Lm = 500 lbs, Lv = 250 lbs

### Conclusion

Based on the analysis results, the antenna mount meets the requirements per the applicable codes listed above provided the modifications listed below are completed:

- Install modifications per ATC drawing #13151947\_C9\_08.

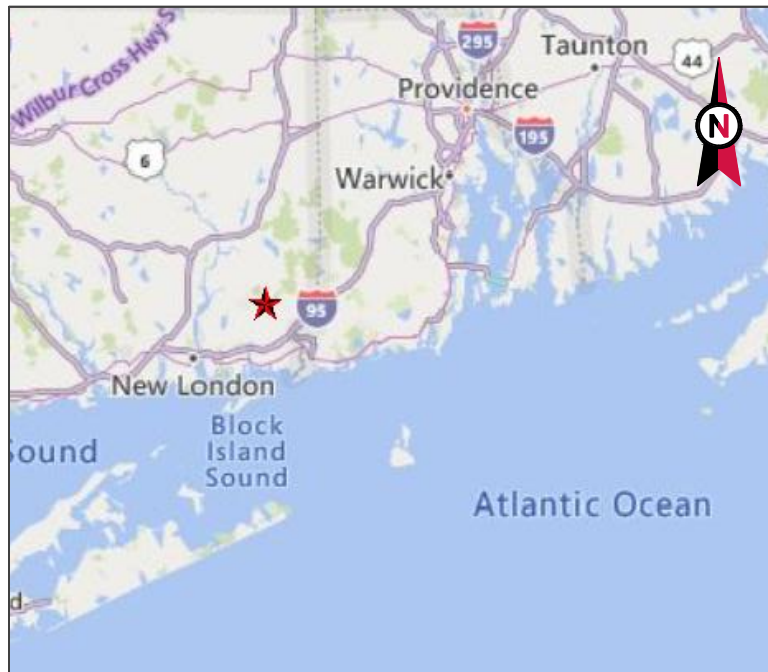
If you have any questions or require additional information, please contact American Tower via email at [Engineering@americantower.com](mailto:Engineering@americantower.com). Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

A.T. Engineering Service, PLLC - 3500 Regency Parkway, Suite 100 - Cary, NC 27518 - 919.468.0112 Office - 919.466.5414 Fax - www.americantower.com

SUPPLEMENTAL

SHEET NUMBER:  
**R-602**

REVISION:  
**0**



VICINITY MAP



**AMERICAN TOWER®**

SITE NAME: NORTH STONINGTON CT  
 SITE NUMBER: 6260  
 ATC PROJECT NUMBER: 13151947\_C9\_08  
 SITE ADDRESS: 118C WINTECHOG HILL RD., OFF OF RT. 2  
 NORTH STONINGTON, CT 06359



LOCATION MAP

**BIRD WATCH SITE:**  
 PLEASE CONTACT BIRD.WATCH@AMERICANTOWER.COM OR AMERICAN TOWER NOC AT 877-518-6937 FOR ASSISTANCE

**MOUNT REINFORCEMENT DRAWINGS  
 PREPARED FOR AT&T MOBILITY**

**AMERICAN TOWER®**  
**A.T. ENGINEERING SERVICE, PLLC**  
 3500 REGENCY PARKWAY  
 SUITE 100  
 CARY, NC 27518  
 PHONE: (919) 468-0112  
 COA: PEC.0001553

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REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CGM	11/11/20

ATC SITE NUMBER:  
 6260  
 ATC SITE NAME:  
 NORTH STONINGTON CT  
 CONNECTICUT  
 SITE ADDRESS:  
 118C WINTECHOG HILL RD., OFF OF RT. 2  
 NORTH STONINGTON, CT 06359



DRAWN BY:	CGM
APPROVED BY:	MCC
DATE DRAWN:	11/11/20
ATC JOB NO:	13151947_C9_08

COVER

SHEET NUMBER:	REVISION:
<b>G-001</b>	<b>0</b>

PROJECT TEAM	PROJECT DESCRIPTION	SHEET	SHEET TITLE	REV.
<p><b>TOWER OWNER</b>            AMERICAN TOWER            10 PRESIDENTIAL WAY            WOBURN, MA 01801</p> <p><b>ENGINEERED BY</b>            ATC TOWER SERVICES            3500 REGENCY PARKWAY, SUITE 100            CARY, NC 27518</p> <p><b>CARRIER INFORMATION</b>            CARRIER: AT&amp;T MOBILITY            CARRIER SITE NAME: MRCTB045090            CARRIER SITE NUMBER: CTL02027</p>	<p>THE MODIFICATIONS PRESENTED ON THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE MOUNT ANALYSIS COMPLETED UNDER ENGINEERING PROJECT NUMBER 13151947_C8_01 DATED 10/20/20. SATISFACTORY COMPLETION OF THE WORK INDICATED ON THESE DRAWINGS WILL RESULT IN THE MOUNT MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE MOUNT ANALYSIS WAS COMPLETED.</p> <p><b>COMPLIANCE CODE</b></p> <p>ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.</p> <p>1. ANSI/TIA/EIA: STRUCTURAL STANDARDS (222-H EDITION)            2. INTERNATIONAL BUILDING CODE (2015 IBC)            3. CONNECTICUT STATE BUILDING CODE (2018)</p>	G-002	IBC GENERAL NOTES AND MOUNT MODIFICATION INSPECTION	0
		S-101	MODIFICATION PROFILE	0
		S-102	SAFETY CLIMB LAYOUT	0
		R-601	SUPPLEMENTAL	0
		R-602	SUPPLEMENTAL	0
		R-603	SUPPLEMENTAL	0
		R-604	SUPPLEMENTAL	0
		R-605	SUPPLEMENTAL	0
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		R-607	SUPPLEMENTAL	0
		R-608	SUPPLEMENTAL	0
		R-609	SUPPLEMENTAL	0
R-610	SUPPLEMENTAL	0		
R-611	SUPPLEMENTAL	0		
R-612	SUPPLEMENTAL	0		
<p><b>PROJECT LOCATION</b></p> <p><b>GEOGRAPHIC COORDINATES</b>            LATITUDE: 41.45983887            LONGITUDE: -71.92733765</p>				



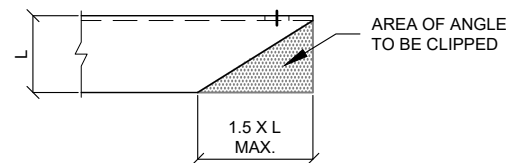
**GENERAL**

- ALL WORK TO BE COMPLETED PER APPLICABLE LOCAL, STATE, FEDERAL CODES AND ORDINANCES AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS FOR WIRELESS TOWER SITES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND ABIDING BY ALL REQUIRED PERMITS.
- ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TOWER AND FOUNDATION CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY INSTALLATION INTERFERENCES. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW SIMILAR DETAILS FOR THIS JOB.
- ANY SUBSTITUTIONS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- ANY MANUFACTURED DESIGN ELEMENTS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS AND SHOULD BE SIMILAR TO THOSE SHOWN. THESE DESIGN ELEMENTS MUST BE STAMPED BY AN ENGINEER PROFESSIONALLY REGISTERED IN THE STATE OF THE PROJECT, AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL CODES AND OSHA SAFETY REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY, PER ANSI/TIA-322 AND ANSI/ASSE A10.48, TO PROVIDE A COMPLETE AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.
- CONTRACTOR'S PROPOSED INSTALLATION SHALL NOT INTERFERE, NOR DENY ACCESS TO, ANY EXISTING OPERATIONAL AND SAFETY EQUIPMENT.

**STRUCTURAL STEEL**

- ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS, LATEST EDITION.
- ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
- ALL U-BOLTS SHALL BE ASTM A36 OR EQUIVALENT, WITH LOCKING DEVICE, UNLESS NOTED OTHERWISE.
- FIELD CUT EDGES, EXCEPT DRILLED HOLES, SHALL BE GROUND SMOOTH.
- ALL FIELD CUT SURFACES, FIELD DRILLED HOLES & GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
- ALL STRUCTURAL STEEL EMBEDDED IN THE CONCRETE SHALL BE APPLIED WITH (2) BRUSHED COATS OF POLYGUARD CA-14 MASTIC OR EQUIVALENT. REFER TO THE MANUFACTURER SPECIFICATIONS FOR SURFACE PREPARATION AND APPLICATION. APPLICATION OF POLYGUARD 400 WRAP IS NOT ESSENTIAL.
- CONTRACTOR SHALL PERFORM WORK ON ONLY ONE (1) TOWER FACE AND REPLACE/REINFORCE ONE (1) BOLT/MEMBER AT A TIME.
- ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.

**MAXIMUM ALLOWABLE ANGLE CLIP**



**PAINT**

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

**WELDING**

- ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
- ALL WELDS SHALL BE INSPECTED VISUALLY. IF DIRECTED BY ENGINEER OF RECORD, 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE (100% IF REJECTABLE DEFECTS ARE FOUND) TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
- INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
- ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER AND/OR BASE METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
- IN CASES WHERE BASE METAL GRADE IS UNKNOWN, ALL WELDING ON LATTICE TOWERS SHALL BE DONE WITH E70XX ELECTRODES; ALL WELDING ON POLE STRUCTURES SHALL BE DONE WITH E80XX ELECTRODES, UNLESS NOTED OTHERWISE.
- PRIOR TO FIELD WELDING GALVANIZED MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.

**BOLT TIGHTENING PROCEDURE**

- STRUCTURAL CONNECTIONS TO BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC SPECIFICATIONS.
- FLANGE BOLTS SHALL BE INSTALLED AND TIGHTENED USING DIRECT TENSION INDICATING (DTI) SQUIRTER WASHERS. DTI SQUIRTER WASHERS ARE TO BE INSTALLED AND ORIENTED / TIGHTENED PER MANUFACTURER SPECIFICATIONS TO ACHIEVE DESIRED LEVEL OF BOLT PRE-TENSION.
- IN LIEU OF USING DTI SQUIRTER WASHERS, FLANGE BOLTS MAY BE TIGHTENED USING AISC / RCSC "TURN-OF-THE-NUT" METHOD, PENDING APPROVAL BY THE ENGINEER OF RECORD (EOR). TIGHTEN FLANGE BOLTS USING THE CHART BELOW:

**BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS**

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

**BOLT LENGTHS OVER FOUR DIAMETERS BUT NOT EXCEEDING EIGHT DIAMETERS**

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

**MODIFICATION INSPECTION NOTES**

THE MOUNT MODIFICATION INSPECTION (MMI) PROCEDURE IS INTENDED TO CONFIRM THAT CONSTRUCTION AND INSTALLATION MEETS ENGINEERING DESIGN, ATC PROCEDURES AND ATC STANDARD SPECIFICATIONS FOR WIRELESS TOWER SITES.

TO ENSURE THAT THE REQUIREMENTS OF THE MMI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR SUBMIT ALL REQUIRED PHOTOGRAPHS AND DRAWINGS TO AMERICAN TOWER CORPORATION (ATC).

MOUNT MODIFICATION INSPECTION CHECKLIST			
INSPECTION DOCUMENT	DESCRIPTION	INSPECTION TESTING REQUIRED	RESPONSIBILITY
ON-SITE COLD GALVANIZING VERIFICATION	PHOTOGRAPHIC EVIDENCE OF COLD GALVANIZATION TYPE AND APPLICATION IN ALL APPLICABLE LOCATIONS TO BE INCLUDED WITHIN THE MMI REPORT	✓	GC
GC AS-BUILT DRAWINGS WITH CONSTRUCTION RED-LINES	"AS-BUILT" DRAWINGS INDICATING ANY APPROVED CHANGES TO ENGINEERED PLANS TO MMI FOR APPROVAL/REVIEW AND INCLUSION IN MMI REPORT	✓	GC
PHOTOGRAPHS	PHOTOGRAPHIC EVIDENCE OF MOUNT MODIFICATION INSPECTION, ON SITE REMEDIATION, AND ITEMS FAILING INSPECTION & REQUIRING FOLLOW UP TO BE INCLUDED WITHIN THE MMI REPORT. COMPLETE PHOTO LOG IS TO BE SUBMITTED WITHIN MMI REPORT.	✓	GC

TABLE KEY:  
MMI - MOUNT MODIFICATION INSPECTION  
GC - GENERAL CONTRACTOR  
ATC - AMERICAN TOWER CORPORATION

**BOLT TIGHTENING PROCEDURE (CONTINUED)**

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

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

**8.2.1 TURN-OF-NUT PRETENSIONING**

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

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

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

**GENERAL CONTRACTOR**

THE GENERAL CONTRACTOR IS REQUIRED TO:

- REVIEW THE REQUIREMENTS OF THE MMI CHECKLIST.
- UNDERSTAND ALL INSPECTION REQUIREMENTS.

THE GENERAL CONTRACTOR SHALL PERFORM AND RECORD THE INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MMI CHECKLIST.



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REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	CGM	11/11/20
△			
△			
△			
△			

ATC SITE NUMBER:

6260

ATC SITE NAME:

**NORTH STONINGTON CT  
CONNECTICUT**

SITE ADDRESS:

118C WINTECHOG HILL RD., OFF OF RT. 2  
NORTH STONINGTON, CT 06359



DRAWN BY:	CGM
APPROVED BY:	MCC
DATE DRAWN:	11/11/20
ATC JOB NO:	13151947_C9_08

**IBC GENERAL NOTES  
AND MOUNT MODIFICATION  
INSPECTION**

SHEET NUMBER:

**G-002**

REVISION:

**0**





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**A.T. ENGINEERING SERVICE, PLLC**  
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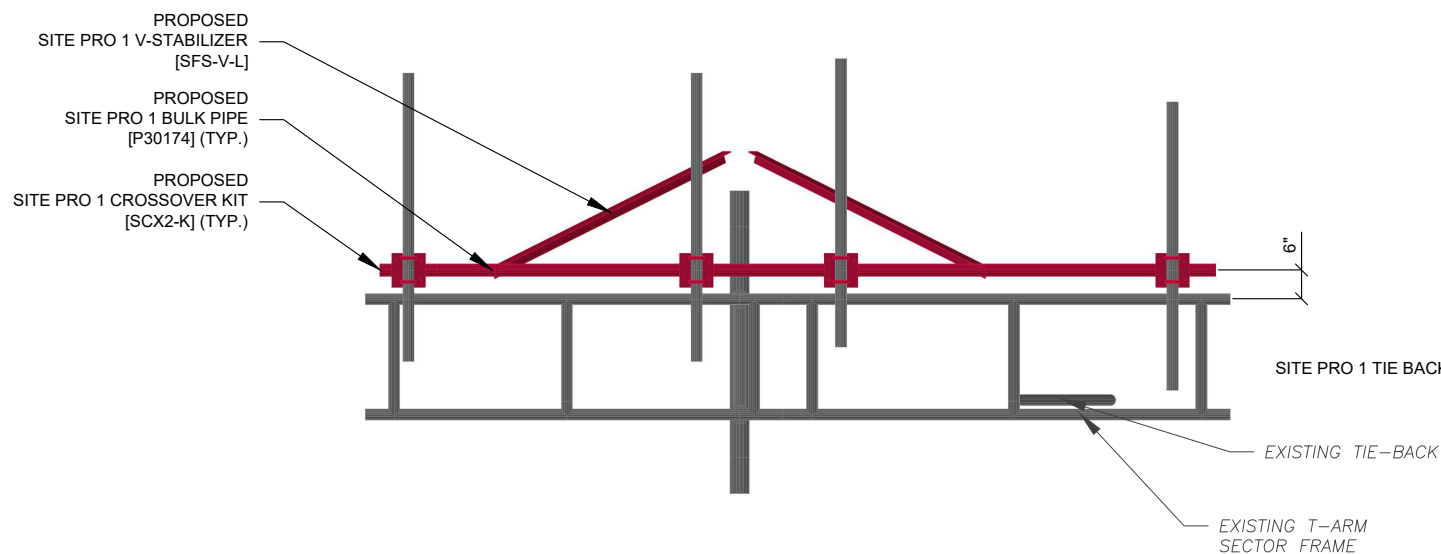
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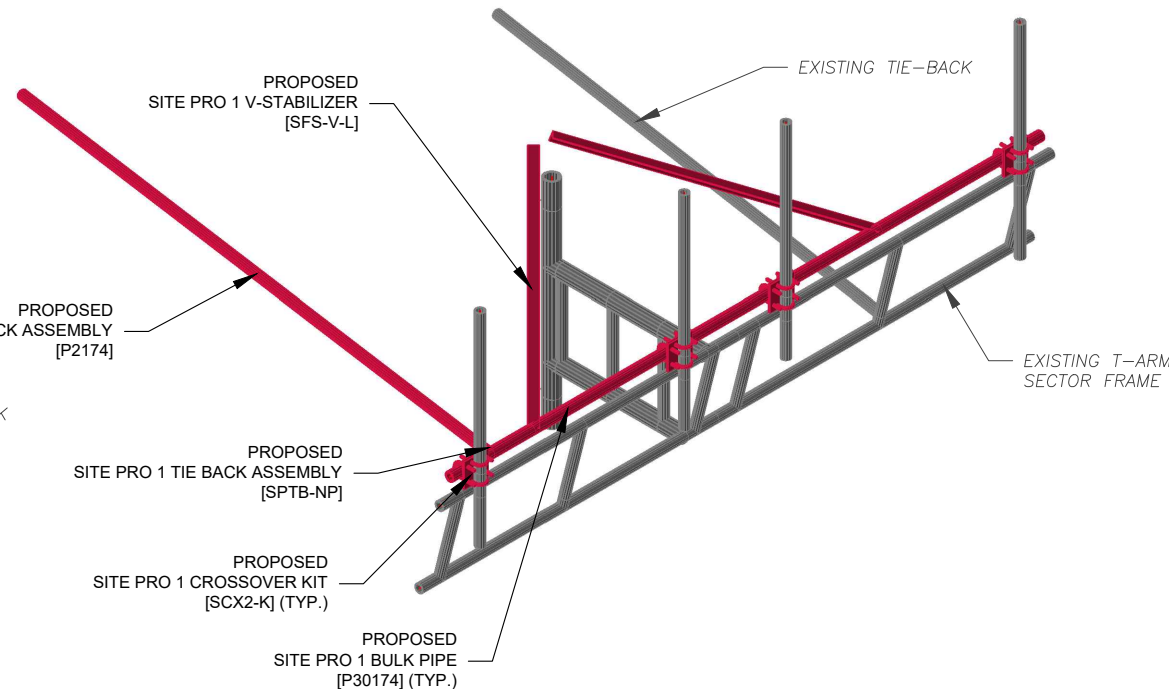
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REVISION:

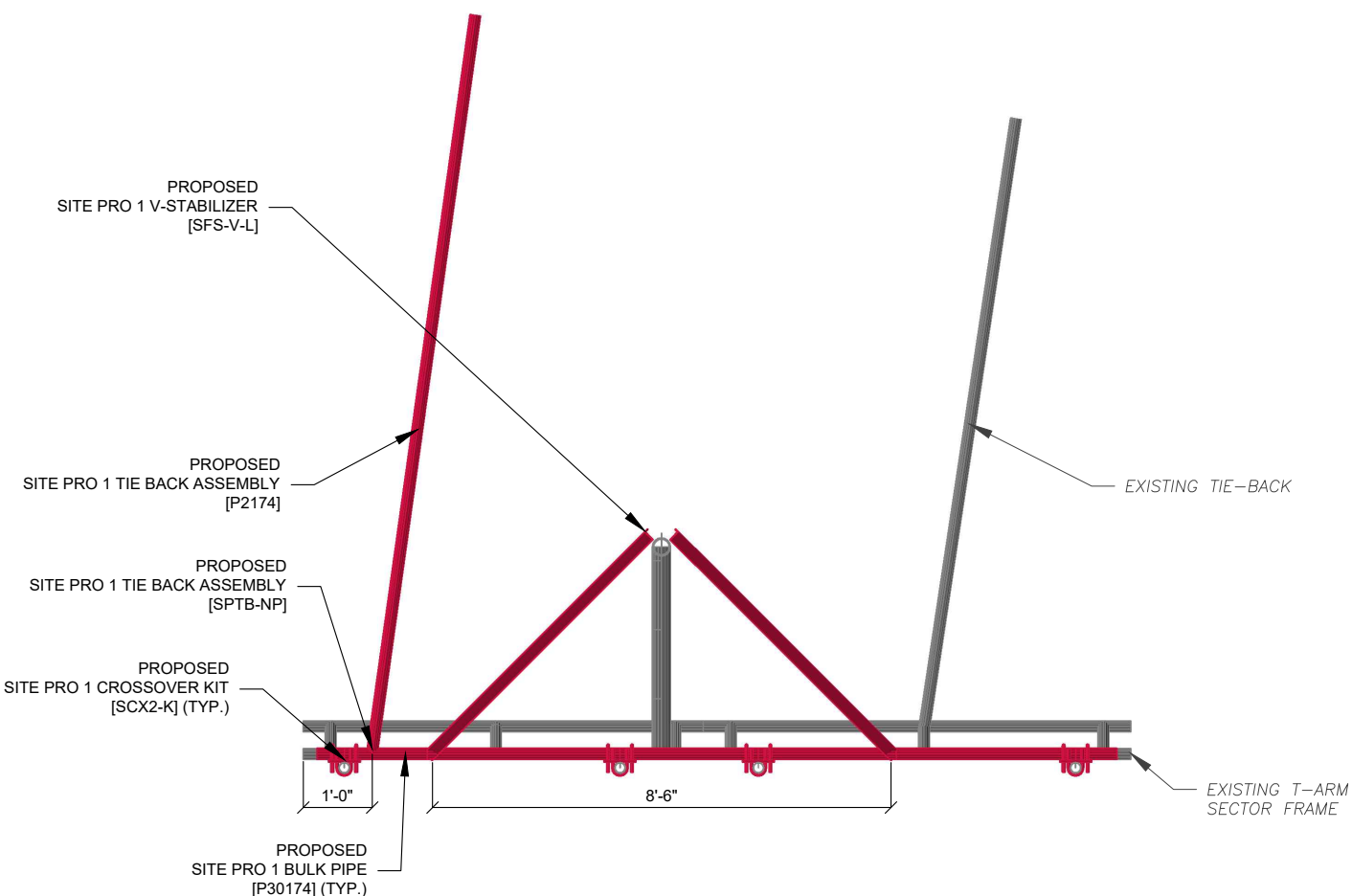
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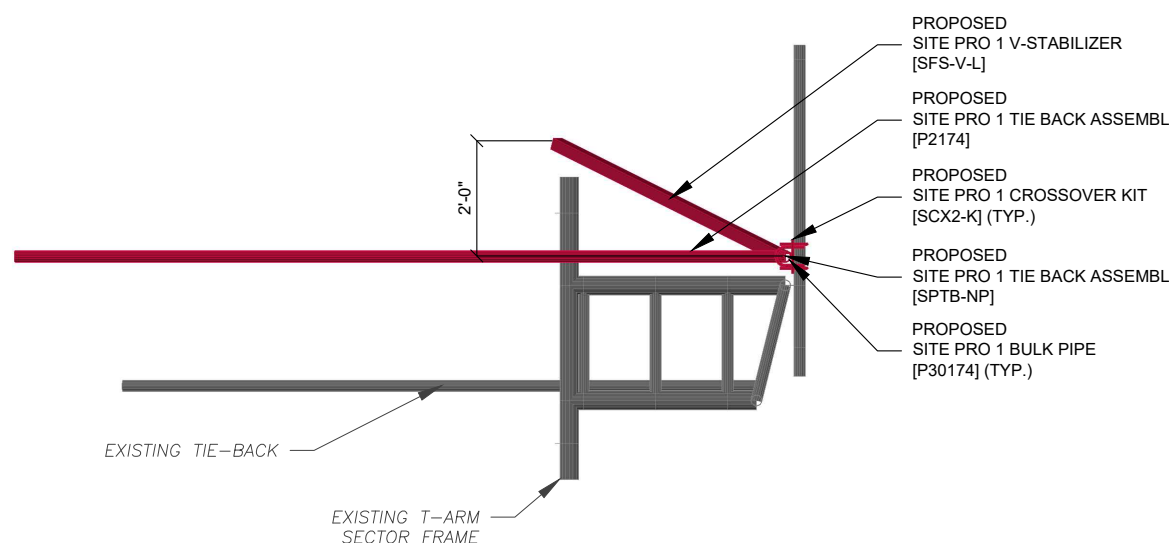
**TYPICAL MOUNT MODIFICATION  
FRONT VIEW**



**TYPICAL MOUNT MODIFICATION  
ISOMETRIC VIEW**



**TYPICAL MOUNT MODIFICATION  
TOP VIEW**



**TYPICAL MOUNT MODIFICATION  
SIDE VIEW**

**NOTE:**  
 IN THE EVENT A PROPOSED MODIFICATION PART LISTED IN THE DRAWINGS IS NOT AVAILABLE, AN APPROVED EQUIVALENT CAN BE SUBSTITUTED. FOR APPROVAL OF EQUIVALENT PART OR QUESTIONS PLEASE CONTACT AMERICAN TOWER PMI INBOX AT PMI@AMERICANTOWER.COM.

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**AMERICAN TOWER®**  
**A.T. ENGINEERING SERVICE, PLLC**  
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 COA: PEC.0001553

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SITE ADDRESS:

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 NORTH STONINGTON, CT 06359



DRAWN BY:	CGM
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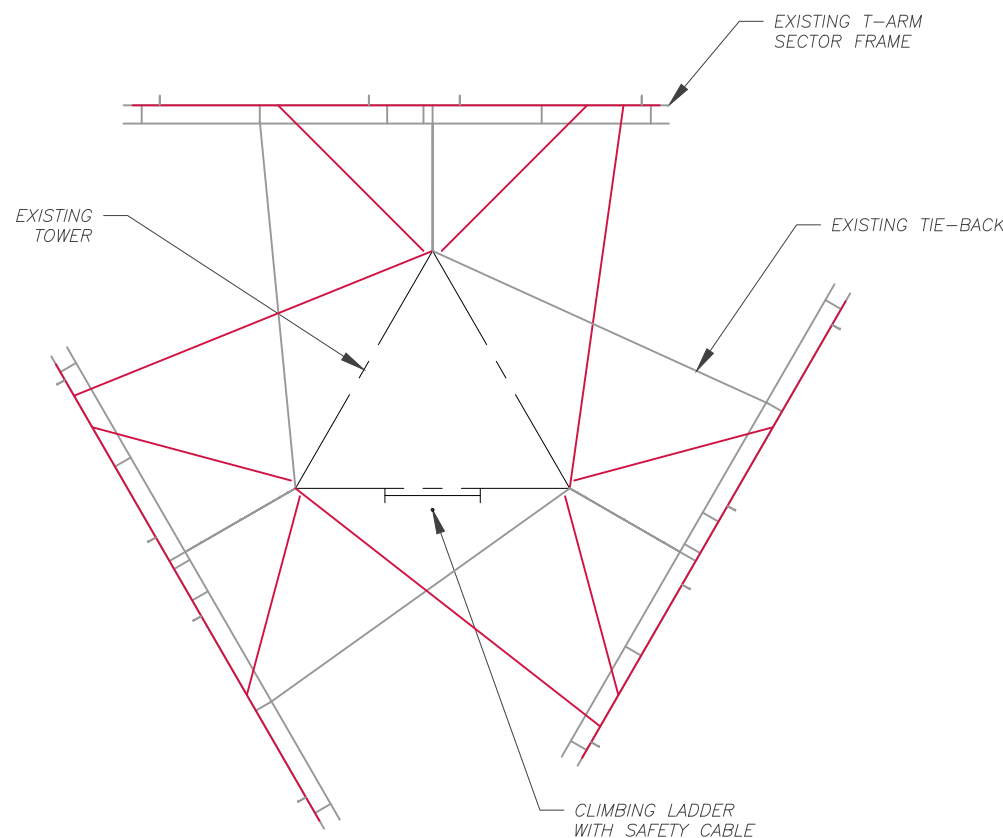
**SAFETY CLIMB LAYOUT**

SHEET NUMBER:

**S-102**

REVISION:

**0**

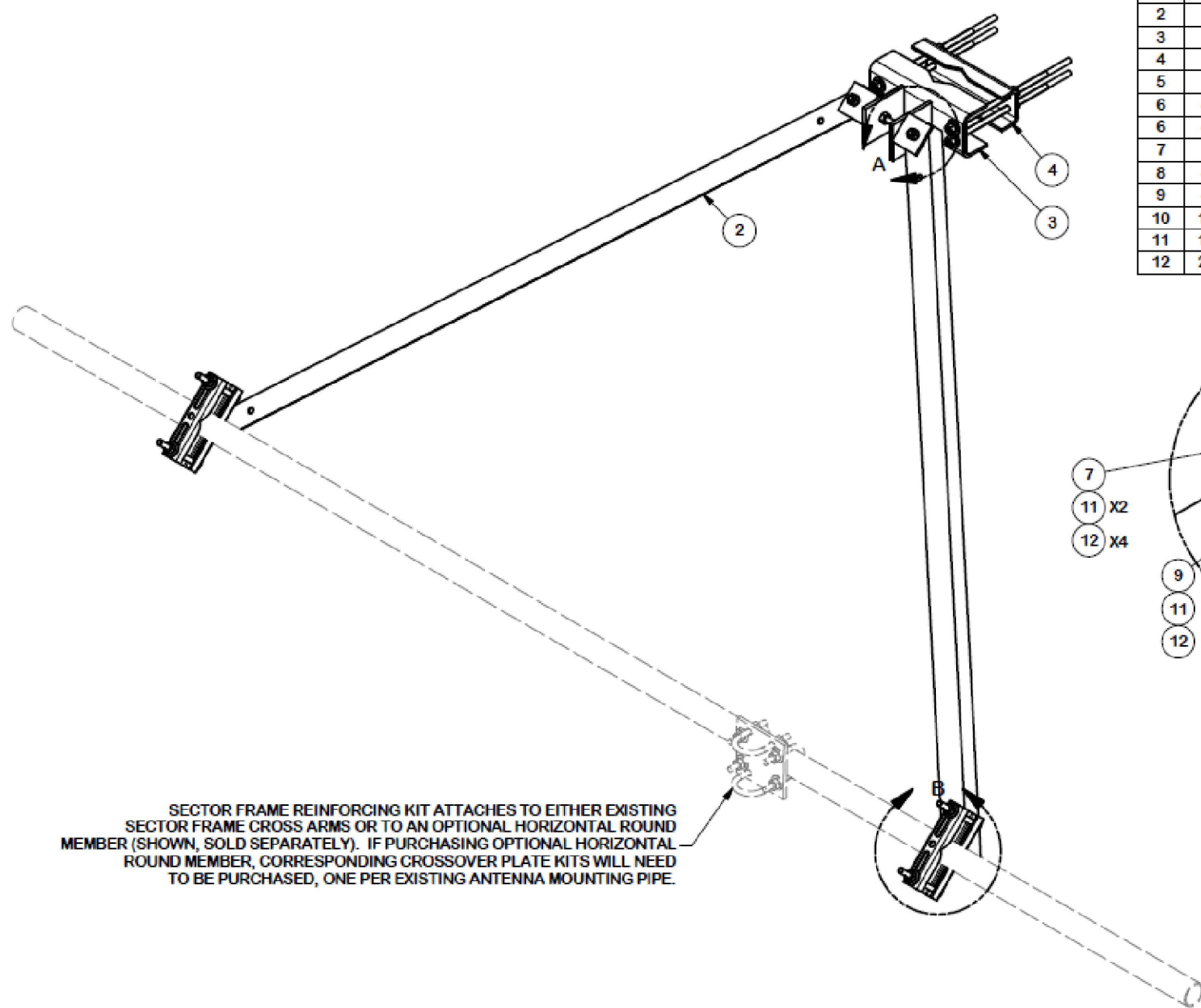


SAFETY CLIMB LOCATION

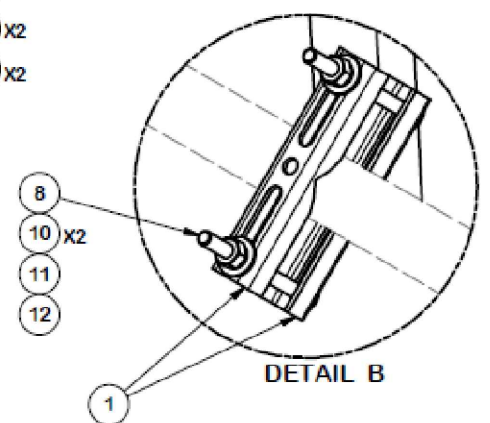
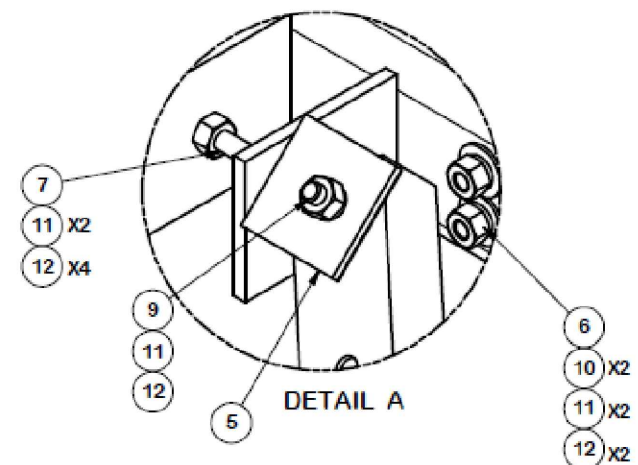


**NOTE:**  
 CONTRACTOR TO INSTALL MOUNT MODIFICATIONS PER THE MANUFACTURERS SPECIFICATION. MODIFICATIONS SHALL NOT OBSTRUCT, INTERFERE, OR BLOCK EXISTING SAFETY CLIMB SYSTEM. IF ANY OF THESE OCCURS DURING INSTALLATION CONTACT THE AMERICAN TOWER PMI INBOX [PMI@AMERICANTOWER.COM](mailto:PMI@AMERICANTOWER.COM)

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	4	X-STU	STIFF ARM CHANNEL BRACKET	8 1/2 in	1.37	5.49
2	2	X-254924	DIAGONAL ANGLE - SITE PRO 1	72 in	19.71	39.41
3	1	CFS	LOWER GATE FOOT WELDMENT		12.72	12.72
4	1	GBB	GATE BACKING BAR	11 1/2 in	4.53	4.53
5	2	SHCM-T	CHAIN MOUNT TIGHTENER BRACKET	3 in	1.86	3.72
6	4	G12R-15	1/2" x 15" THREADED ROD (HDG.)		0.40	1.60
6	4	G12R-12	1/2" x 12" THREADED ROD (HDG.)		0.40	1.60
7	1	G12R-6	1/2" x 6" GALV. THREADED ROD		0.33	0.33
8	4	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	1.64
9	4	G12112	1/2" x 1-1/2" HDG HEX BOLT GR5	1/2 in	0.15	0.59
10	16	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.55
11	18	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.25
12	20	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.43
TOTAL WT. #						76.65



SECTOR FRAME REINFORCING KIT ATTACHES TO EITHER EXISTING SECTOR FRAME CROSS ARMS OR TO AN OPTIONAL HORIZONTAL ROUND MEMBER (SHOWN, SOLD SEPARATELY). IF PURCHASING OPTIONAL HORIZONTAL ROUND MEMBER, CORRESPONDING CROSSOVER PLATE KITS WILL NEED TO BE PURCHASED, ONE PER EXISTING ANTENNA MOUNTING PIPE.



**TOLERANCE NOTES**  
 TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
 SAWED, SHEARED AND GAS CUT EDGES (± 0.030")  
 DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES  
 LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES  
 BENDS ARE ± 1/2 DEGREE  
 ALL OTHER MACHINING (± 0.030")  
 ALL OTHER ASSEMBLY (± 0.060")

DESCRIPTION  
**SECTOR FRAME STABILIZER - VERTICAL LONG**

**SITE PRO 1**  
 Engineering Support Team  
 1-888-753-7446

Locations:  
 New York, NY  
 Atlanta, GA  
 Los Angeles, CA  
 Plymouth, IN  
 Salem, OR  
 Dallas, TX

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	CHANGED MAX. DIA. FOR HANDRAIL CONNECTION	5563	BC	10/25/2017

PROPRIETARY NOTE:  
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

CPD NO.	5563	DRAWN BY	CEK 3/23/2017	ENG. APPROVAL	
CLASS	81	SUB	01	DRAWING USAGE	CUSTOMER
			CHECKED BY	BMC 3/23/2017	

PART NO.	SFS-V-L	PAGE 1 OF 3
DWG. NO.	SFS-V-L	

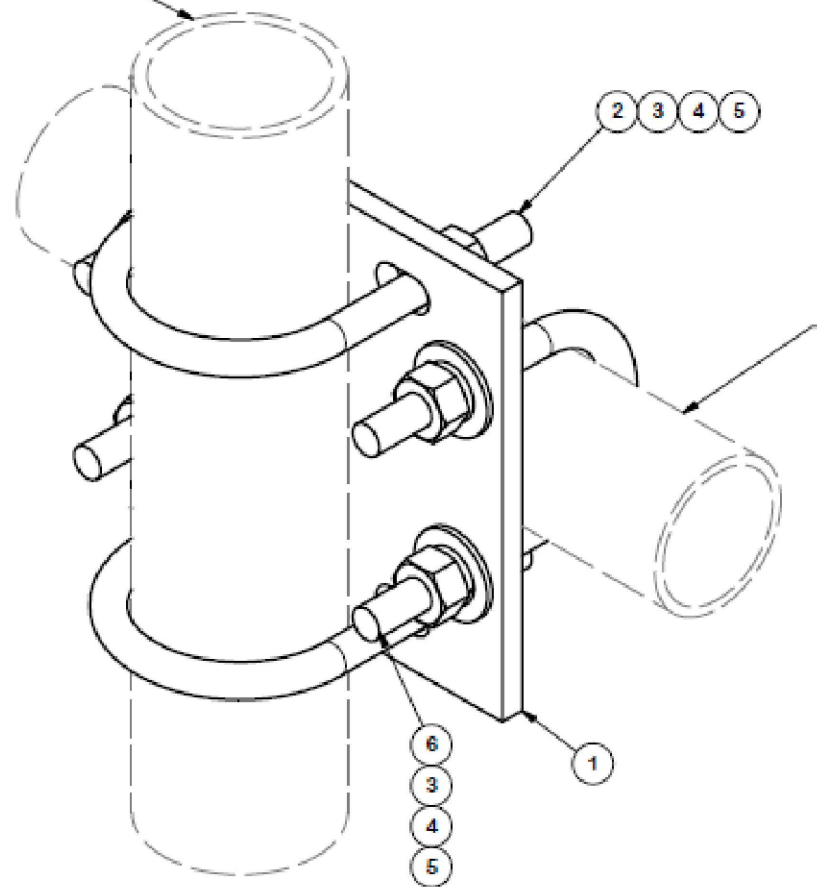
NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONSTRUCTION.

SUPPLEMENTAL

SHEET NUMBER: R-601  
 REVISION: 0

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SCX2	CROSSOVER PLATE	7 in	4.80	4.80
2	2	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.66	1.31
3	8	G12FW	1/2" HDG USS FLATWASHER		0.03	0.27
4	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
5	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
6	2	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	1.25
TOTAL WT. #						8.39

2-7/8" O.D. ANTENNA PIPE  
(ORDERED SEPARATELY)



2-3/8" O.D. PIPE  
(ORDERED SEPARATELY)

**TOLERANCE NOTES**  
 TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
 SAWED, SHEARED AND GAS CUT EDGES ( $\pm 0.030$ )  
 DRILLED AND GAS CUT HOLES ( $\pm 0.030$ ) - NO CONING OF HOLES  
 LASER CUT EDGES AND HOLES ( $\pm 0.010$ ) - NO CONING OF HOLES  
 BENDS ARE  $\pm 1/2$  DEGREE  
 ALL OTHER MACHINING ( $\pm 0.030$ )  
 ALL OTHER ASSEMBLY ( $\pm 0.060$ )

PROPRIETARY NOTE:  
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION  
**CROSSOVER  
 PLATE  
 KIT**

**SITE PRO 1**  
 Engineering Support Team:  
 1-888-753-7446  
 Locations:  
 New York, NY  
 Atlanta, GA  
 Los Angeles, CA  
 Plymouth, IN  
 Salem, OR  
 Dallas, TX

CPD NO.	DRAWN BY <b>CEK</b>	6/30/2011	ENG. APPROVAL
CLASS	SUB	DRAWING USAGE <b>SHOP</b>	CHECKED BY <b>BMC</b>
		7/1/2011	

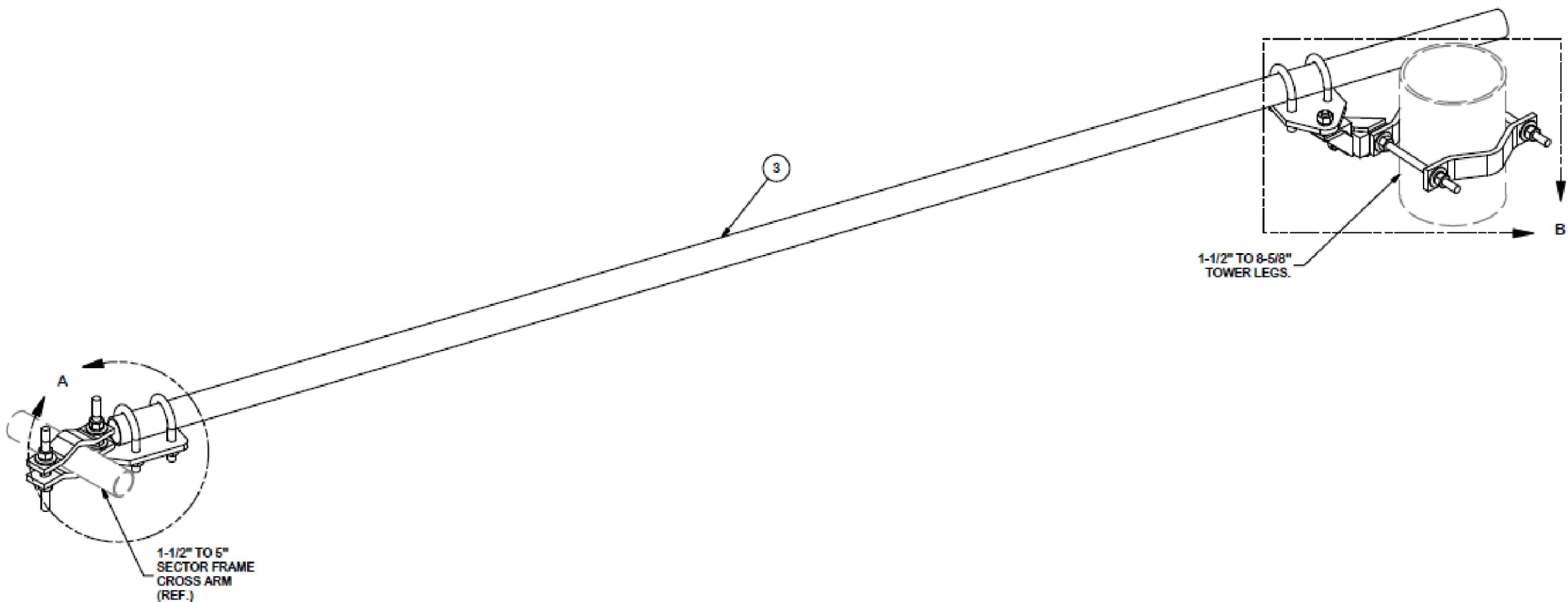
PART NO. <b>SCX2-K</b>	PAGE 1 OF 1
DWG. NO. <b>SCX2-K</b>	

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONSTRUCTION.

SUPPLEMENTAL

SHEET NUMBER: <b>R-602</b>	REVISION: <b>0</b>
-------------------------------	-----------------------

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-SPTB	SLIDING PIPE TIE BACK PLATE	5 1/2 in	5.87	11.74
2	2	X-TBCA	TIE BACK CLIP ANGLE		2.08	4.16
3	1	P2126	2-3/8" OD X 126" SCH 40 GALVANIZED PIPE	126 in	40.75	40.75
4	2	MCP	CLAMP HALF 1/2" THICK, 11-5/8" LONG	12 1/16 in	3.59	7.19
5	4	DCP	1/2" THICK, 5-3/4" CNER TO CENTER CLAMP HALF	8 1/8 in	2.42	9.68
6	2	G58R-12	5/8" x 12" THREADED ROD (HDG.)		1.05	2.09
7	4	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	2.79
8	4	X-UB5258	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)		1.00	4.00
9	4	G5804	5/8" x 4" HDG HEX BOLT GR5		0.44	1.78
10	2	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	0.54
11	10	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	0.70
12	18	G58LW	5/8" HDG LOCKWASHER		0.03	0.47
13	20	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	2.60
					TOTAL WT. #	88.49



**TOLERANCE NOTES**  
 TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
 SAWED, SHEARED AND GAS CUT EDGES ( $\pm 0.030"$ )  
 DRILLED AND GAS CUT HOLES ( $\pm 0.030"$ ) - NO CONING OF HOLES  
 LASER CUT EDGES AND HOLES ( $\pm 0.010"$ ) - NO CONING OF HOLES  
 BENDS ARE  $\pm 1/2$  DEGREE  
 ALL OTHER MACHINING ( $\pm 0.030"$ )  
 ALL OTHER ASSEMBLY ( $\pm 0.060"$ )

PROPRIETARY NOTE:  
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION  
**SLIDING PIPE  
 TIE BACK ASSEMBLY**

**SITE PRO 1**  
 A valmont COMPANY  
 Engineering Support Team:  
 1-888-753-7446  
 Locations:  
 New York, NY  
 Atlanta, GA  
 Los Angeles, CA  
 Plymouth, IN  
 Salem, OR  
 Dallas, TX

CPD NO.	DRAWN BY CEK 10/19/2016	ENG. APPROVAL	PART NO. SPTB	PAGE 1 OF 3
CLASS 81	SUB 02	DRAWING USAGE CUSTOMER	CHECKED BY BMC 11/17/2016	

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONSTRUCTION.

SUPPLEMENTAL

SHEET NUMBER:  
**R-603**

REVISION:  
**0**

## ATC Engineering Replacement Recommendation

Tower Info	
Tower Number	6260
Tower Name	NORTH STONINGTON CT
State	Connecticut

Additional Info	
Can modifications be Installed?	Yes
What is the post-mod capacity?	94%

Jurisdictional Codes	
Design TIA Code	Unknown
Current TIA Code	ANSI/TIA-222-H
IBC	2015 IBC
Other	2018 Connecticut State Building Code

Project Requirements		
New Mount Face Width	150	in
Number of Sectors	3	

Project Information	
Carrier	AT&T Mobility
Structure Type	Self-Support

Recommended Mount Replacement	Sabre C10857007C*
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\*or approved equivalent

Replacement Cost	\$ 36,000.00
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## Estimate for T-Frame @ 6260 (NORTH STONINGTON CT) -- 13151947\_C9\_08

12:29 PM 11/5/2020

Site Data and Design Parameters				Dates and Designers			
Asset OTM #	6260			Mount Analysis Date / By	CAD	10/20	/ JL
Asset Name	NORTH STONINGTON CT			Design Date / By	11/5/2020	/ MCC	
State	Connecticut			Checked Date / By			
County	New London			Detailer (Prev/Current/Level)			
City	North Stonington			Software	RISA		
Failing Analysis Eng. #	13151947_C8_01			Mapping or Cut Sheet Available?	Yes		
Mod. Drawing Eng. #	13151947_C9_08			Tower Type	Self-Support	3-sided	
Building Codes	TIA/IBC:	ANSI/TIA-222-H	/	2015 IBC			
	Local:	2018 Connecticut State Building Code					
Failing Analysis % / Code	436%	/	TIA-H				
Post Mod % / Controlling Member	94%	/	Horizontals				
Usage Limit % / Reason	100%	/	N/A				
Any modification design comments or assumptions? <span style="float: right;">No <small>(including notes to the Estimator)</small></span>							

Full Modification Summary	
Item #	Scope Item
1	Install Site Pro 1 SFS-V-L V Style Stabilizer on All sector(s)
2	Install Site Pro 1 P30174 Pipe w/ SCX2-K crossovers on All sector(s)
3	Install Site Pro 1 P2174 Tie Back on All sector(s) with SPTB-NP Attachment Kit

As-Is Modification Cost Estimate	\$15,000
----------------------------------	----------

X:\N-R\North Stonington CT, CT (6260)\13151947 AT&T MOBILITY\13151947\_08\_MOUNT\_DRW\Mount Modification SOW v1.4.3

SUPPLEMENTAL

SHEET NUMBER: <b>R-604</b>	REVISION: <b>0</b>
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## EXHIBIT 2



**AMERICAN TOWER®**  
CORPORATION

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## Antenna Mount Analysis Report

**ATC Site Name** : NORTH STONINGTON CT, CT  
**ATC Site Number** : 6260  
**Engineering Number** : 13151947\_C9\_08  
**Mount Elevation** : 173 ft  
**Carrier** : AT&T Mobility  
**Carrier Site Name** : MRCTB045090  
**Carrier Site Number** : CTL02027  
**Site Location** : 118C Wintechog Hill Rd., off of Rt. 2  
North Stonington, CT 06359-1228  
41.45983887 , -71.92733765  
**County** : New London  
**Date** : November 5, 2020  
**Max Usage** : 94%  
**Result** : Contingent Pass

Prepared By:  
Mitchell Chen  
Structural Engineer I

Reviewed By:



Authorized by "EOR"  
Dec 3 2020 3:37 PM



**COA: PEC.0001553**





**Table of Contents**

Introduction ..... 1

Supporting Documents ..... 1

Analysis ..... 1

Conclusion ..... 1

Antenna Loading..... 2

Structure Usages..... 2

Mount Layout ..... 3

Equipment Layout ..... 4

Standard Conditions..... 5

Calculations ..... Attached



## Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for AT&T Mobility at 173 ft.

## Supporting Documents

<b>Mount Mapping</b>	ETS Project #204318.IE.01, dated October 6, 2020
<b>Radio Frequency Data Sheet</b>	RFDS ID #10035003, dated February 26, 2020
<b>Reference Photos</b>	Site photos from 2019

## Analysis

This antenna mount was analyzed using American Tower Corporation's Mount Analysis Program and RISA-3D

<b>Basic Wind Speed:</b>	127 mph (3-Second Gust)
<b>Basic Wind Speed w/ Ice:</b>	50 mph (3-Second Gust) w/ 1" radial ice concurrent
<b>Codes:</b>	ANSI/TIA-222-H
<b>Exposure Category:</b>	B
<b>Risk Category:</b>	II
<b>Topographic Factor Procedure:</b>	Method 2
<b>Feature:</b>	Flat
<b>Crest Height (H):</b>	0 ft
<b>Crest Length (L):</b>	0 ft
<b>Spectral Response:</b>	Ss = 0.188, S1 = 0.053
<b>Site Class:</b>	D - Stiff Soil
<b>Live Loads:</b>	Lm = 500 lbs, Lv = 250 lbs

## Conclusion

Based on the analysis results, the antenna mount meets the requirements per the applicable codes listed above provided the modifications listed below are completed:

- Install modifications per ATC drawing #13151947\_C9\_08.

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.



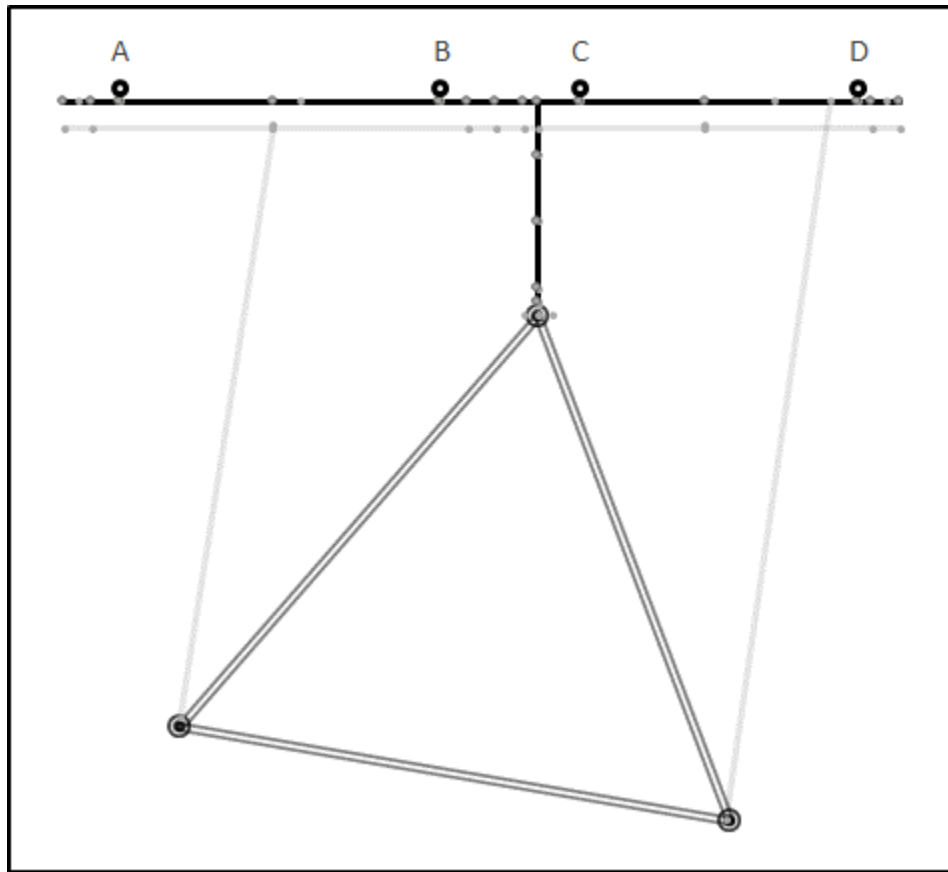
**Application Loading**

Mount Centerline (ft)	Antenna Centerline (ft)	Qty	Antenna Model
173.0	175.0	3	CCI OPA65R-BU8D
		3	CCI DMP65R-BU8D
		3	Allgon 7770
		6	Powerwave Allgon LGP17201
		6	Powerwave Allgon LGP21901
		3	Powerwave Allgon 7020
		1	Raycap DC6-48-60-18-8F (23.5" Height)
		1	Raycap DC6-48-60-18-8F ("Squid")
		3	Ericsson RRUS 4478 B14
		3	Ericsson RRUS 4449 B5, B12
		3	Ericsson RRUS 8843 B2, B66A

**Structure Usages**

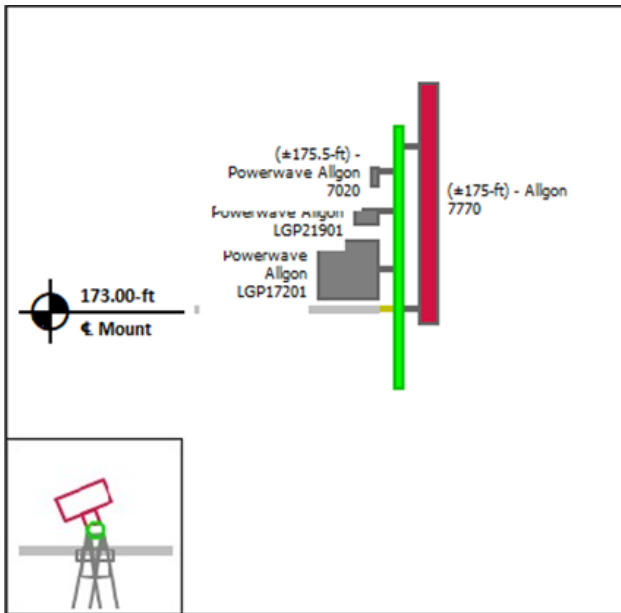
Structural Component	Controlling Usage	Pass/Fail
Horizontals	94%	Pass
Verticals	34%	Pass
Diagonals	49%	Pass
Tie-Backs	9%	Pass
Mount Pipes	77%	Pass
Mod-Kit	34%	Pass

**Mount Layout**

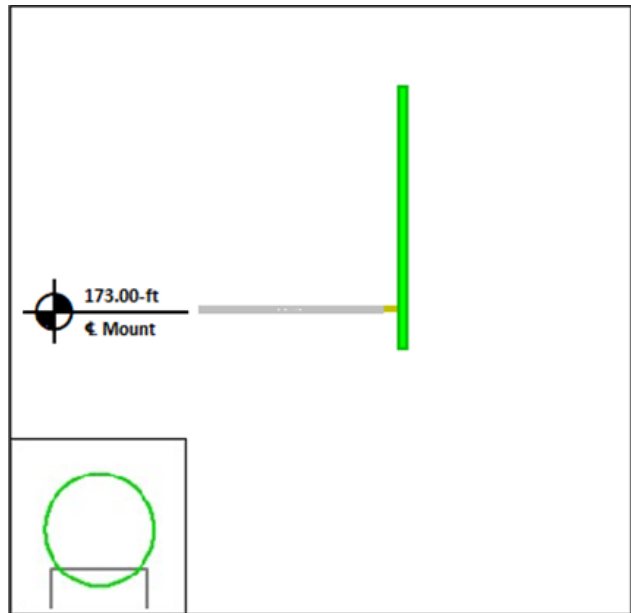


**Equipment Layout**

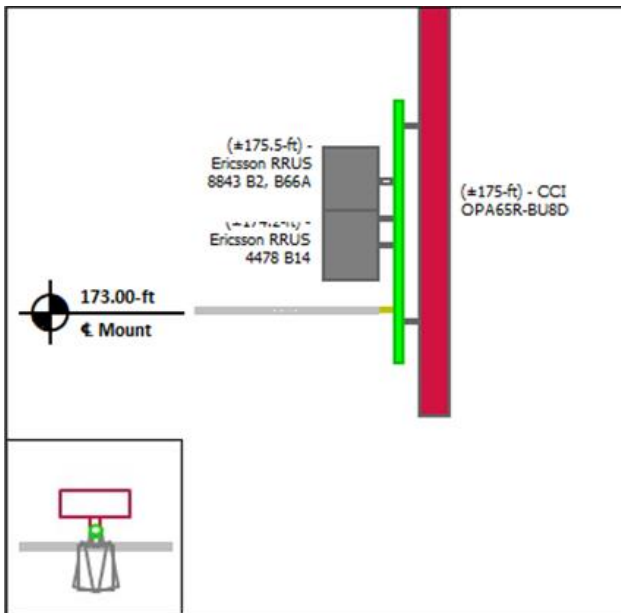
**Mount Pipe A**



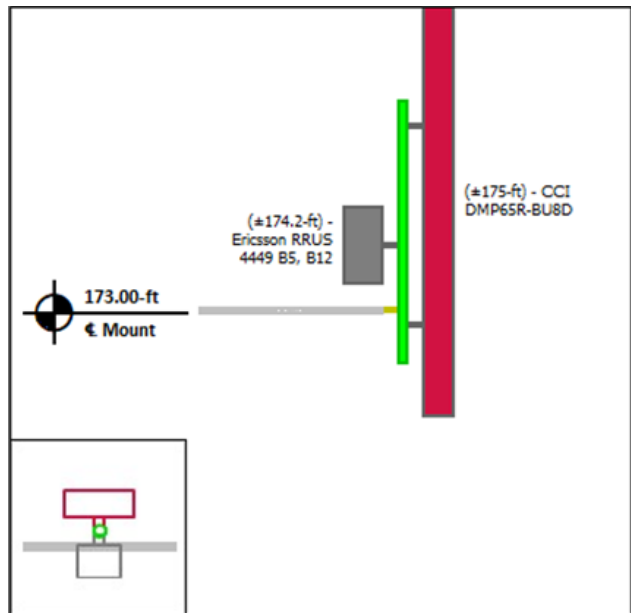
**Mount Pipe B**



**Mount Pipe C**



**Mount Pipe D**





### **Standard Conditions**

All engineering services performed by A.T. Engineering Service, PLLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

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.

American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

All connections are to be verified for condition and tightness by the installation contractor preceding any changes to the appurtenance mounting system and/or equipment attached to it.

Unless explicitly agreed by both the client and A.T. Engineering Service, PLLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

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 supplied herein.



**Site Number:** 6260  
**Project Number:** 13151947\_C9\_08  
**Carrier:** AT&T Mobility  
**Mount Elevation:** 173 ft  
**Date:** 11/5/2020

## Mount Analysis Force Calculations

Wind & Ice Load Calculations			
Velocity Pressure Coefficient	$K_z$	1.16	
Topographic Factor	$K_{zt}$	1.00	
Rooftop Wind Speed-up Factor	$K_s$	1.00	
Shielding Factor	$K_a$	0.90	
Ground Elevation Factor	$K_e$	0.98	
Wind Direction Probability Factor	$K_d$	0.95	
Basic Wind Speed	$V$	127	mph
Velocity Pressure	$q_z$	44.6	psf
Height Escalation Factor	$K_{iz}$	1.18	
Thickness of Radial Glaze Ice	$T_{iz}$	1.18	in

Seismic Load Calculations			
Short Period DSRAP	$S_{DS}$	0.201	
1 Second DSRAP	$S_{D1}$	0.085	
Importance Factor	$I$	1.0	
Response Modification Coefficient	$R$	2.0	
Seismic Response Coefficient	$C_s$	0.100	
Amplification Factor	$A$	1.0	
Total Weight	$W$	1021.1	lbs
Total Shear Force	$V_s$	102.4	lbs
Horizontal Seismic Load	$E_h$	102.4	lbs
Vertical Seismic Load	$E_v$	41.0	lbs

Antenna Calculations (Elevations per Application/RFDS)*									
Equipment	Height	Width	Depth	Weight	$EPA_N$	$EPA_T$	$EPA_{Ni}$	$EPA_{Ti}$	
Model #	in	in	in	lbs	sqft	sqft	sqft	sqft	
CCI OPA65R-BU8D	96.0	21.0	7.8	76.5	18.09	3.12	20.62	4.16	
CCI DMP65R-BU8D	96.0	20.7	7.7	95.7	17.87	3.08	20.40	4.12	
Allgon 7770	55.0	11.0	5.0	35.0	5.51	1.37	6.98	2.10	
Powerwave Allgon LGP17201	13.9	14.4	3.7	31.0	1.67	0.25	2.27	0.48	
Powerwave Allgon LGP21901	4.0	6.0	3.0	5.5	0.20	0.10	0.44	0.28	
Powerwave Allgon 7020	4.9	8.3	2.4	2.2	0.34	0.10	0.64	0.29	
Raycap DC6-48-60-18-8F (23.5" Height)	23.5	9.7	9.7	20.0	N/A	N/A	N/A	N/A	
Raycap DC6-48-60-18-8F ("Squid")	24.0	11.0	11.0	31.8	N/A	N/A	N/A	N/A	
Ericsson RRUS 4478 B14	16.5	13.4	7.7	59.9	1.84	1.06	2.48	1.58	
Ericsson RRUS 4449 B5, B12	17.9	13.2	9.4	71.0	1.97	1.40	2.63	1.99	
Ericsson RRUS 8843 B2, B66A	14.9	13.2	10.9	72.0	1.64	1.35	2.24	1.91	

\* Equipment with EPA values N/A were not considered in the mount analysis

## EXHIBIT 3



DOCKET NO. 91A - SNET Cellular, Inc.,  
Amended Certificate of Environmental  
Compatibility and Public Need for  
cellular telephone antennas and  
associated equipment in the Town  
of North Stonington, Connecticut.

Connecticut

Siting

Council

April 30, 1990

DECISION AND ORDER

Pursuant to the foregoing Findings of Fact, Opinion, and record in Docket No. 91, the Connecticut Siting Council hereby directs that an amended Certificate of Environmental Compatibility and Public Need as provided by Section 16-501 of the General Statutes of Connecticut (CGS) be issued to SNET Cellular, Inc., for the construction, operation, and maintenance of a cellular telephone facility and associated equipment off of Wintechog Hill Road in the Town of North Stonington, Connecticut.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in Docket No. 91, with changes as specified in this amendment.

The Certificate Holder shall abide by all of the conditions issued by the Council in its Decision and Order for Docket No. 91, dated March 22, 1988.

Pursuant to CGS Section 16-50p, we hereby direct that a copy of this Decision and Order be served on each person listed below, and that a notice of issuance shall be published in the New London Day.

By this Decision and Order the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of State Agencies.

The Parties to this proceeding are:

SNET Cellular, Inc.  
555 Long Wharf Drive  
New Haven, CT 06511

(Applicant)

Peter J. Tyrrell  
Senior Attorney  
227 Church Street  
New Haven, CT 06510

(Its Attorney)


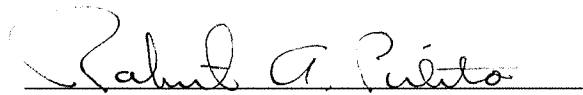

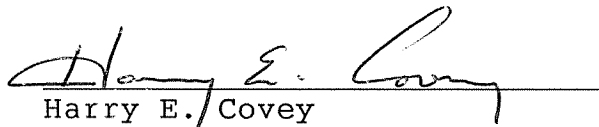

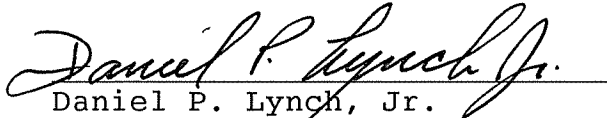

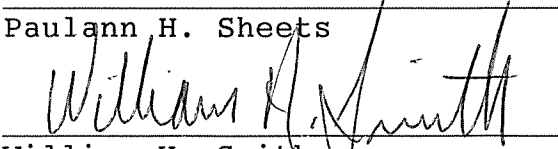

RKE/bd

4339E

CERTIFICATION

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case in Docket No. 91A - SNET Cellular, Inc., Amended Certificate for Environmental Compatibility and Public Need for cellular telephone antennas and associated equipment in the Town of North Stonington, Connecticut or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut the 30th day of April, 1990.

<u>Council Members</u>	<u>Vote Cast</u>
 Gloria Dibble Pond Chairperson	Yes
 Commissioner Peter Boucher Designee: Robert A. Pulito	Yes
 Commissioner Leslie Carothers Designee: Brian Emerick	Yes
 Harry E. Covey	Abstain
 Mortimer A. Gelston	Yes
 Daniel P. Lynch, Jr.	Yes
 Paulann H. Sheets	Yes
 William H. Smith	Yes
 Colin C. Tait	Yes

## EXHIBIT 4



# Town of North Stonington, CT

Property Listing Report

Map Block Lot

93-4392-A

Account

S3478750

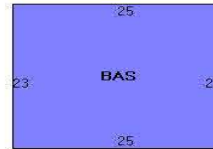
## Property Information

Property Location	118C WINTECHOG HL
Owner	AMERICAN TOWER
Co-Owner	PROPERTT TAX DEPT
Mailing Address	P O BOX 723597 ATLANTA GA 31139
Land Use	3221 COMM BLDG MDL-96
Land Class	C
Zoning Code	R80
Census Tract	7071
Sub Lot	
Neighborhood	0500
Acreage	0
Utilities	
Lot Setting/Desc	
Survey Map	
Additional Info	

## Photo



## Sketch



## Primary Construction Details

Year Built	1989
Stories	1
Building Style	Warehouse
Building Use	Ind/Comm
Building Condition	Excellent+10
Floors	Concr-Finished
Total Rooms	

Bedrooms	
Full Bathrooms	0
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	Flat
Roof Cover	T&G/Rubber

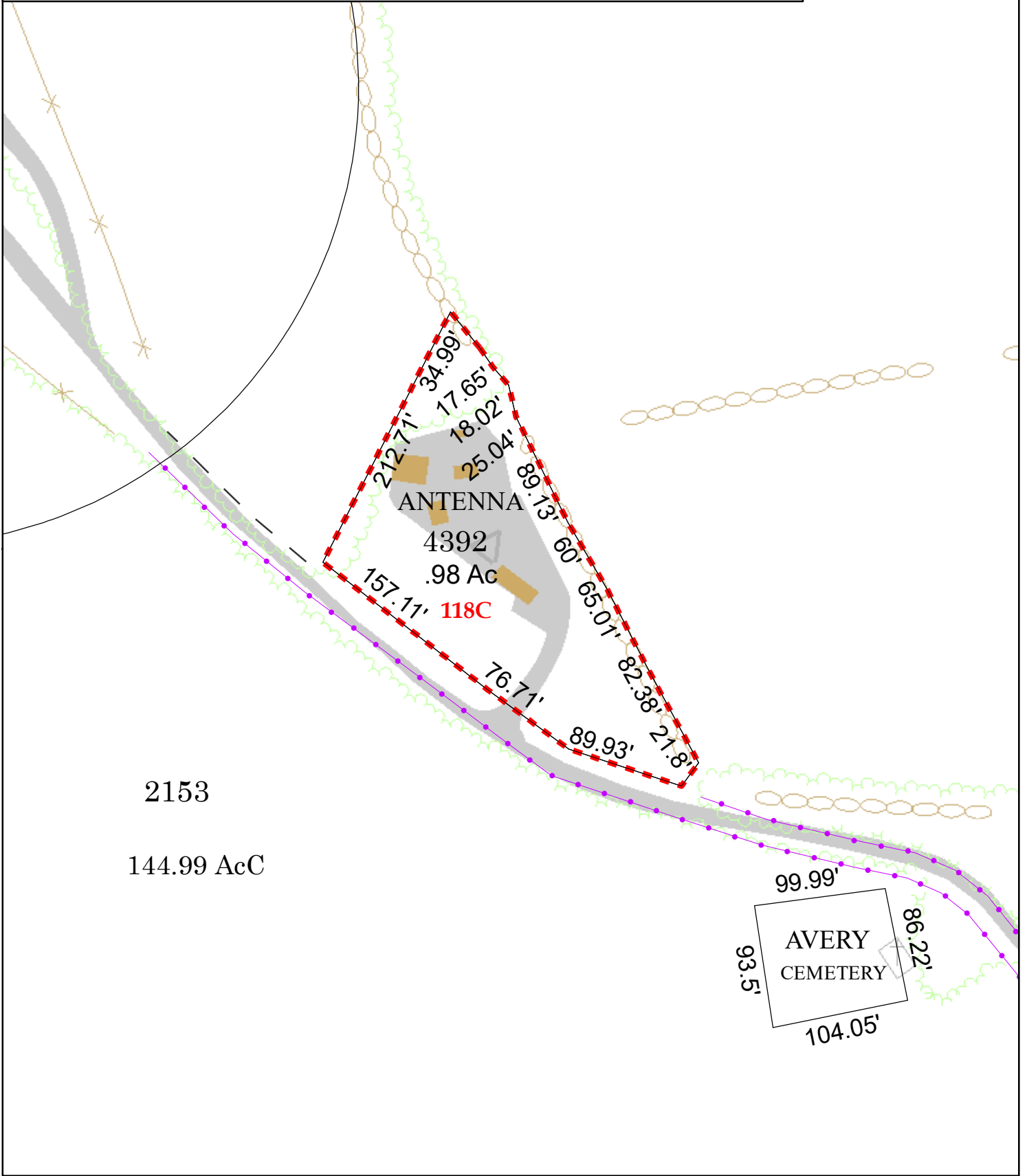
Exterior Walls	Stucco/Masonry
Interior Walls	Minim/Masonry
Heating Type	Electr Basebrd
Heating Fuel	Electric
AC Type	Central
Gross Bldg Area	575
Total Living Area	575



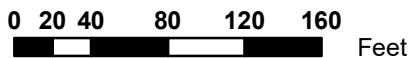
Town of North Stonington, Connecticut - Assessment Parcel Map

Parcel: 93-4392

Address: 118C WINTECHOG HL



Approximate Scale: 1:1,200



Map Produced  
June 2020

Disclaimer: This map is for informational purposes only.  
All information is subject to verification by any user.  
The Town of North Stonington and its mapping contractors assume  
no legal responsibility for the information contained herein.

## EXHIBIT 5



**Lawrence Behr  
Associates** INC  
www.lbagroup.com

# Radio Frequency Emissions Report

SITE NAME:

6260 North Stonington CT

LOCATION:

North Stonington, Connecticut

COMPANY:

American Tower Corporation  
Woburn, Massachusetts

October 15<sup>th</sup>, 2020  
Revision 2



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GREENVILLE, NORTH CAROLINA

# RADIO FREQUENCY EMISSIONS REPORT

## 6260 North Stonington CT

*North Stonington, Connecticut*

### INTRODUCTION

Lawrence Behr Associates, Inc. (LBA) has been retained by American Tower Corporation (ATC) of Woburn, Massachusetts to evaluate the RF emissions of an existing tower at this location. AT&T is adding emitters to this site and the purpose of this study is to determine if, after the addition of the AT&T emitters, the site is in Compliance with FCC Regulations. This study determined that THIS SITE IS IN COMPLIANCE with Federal Regulations.

This study supersedes the one dated September 15<sup>th</sup>, 2020 since it has been determined that the site Load List was incorrect. The only change in this study is that it incorporates the corrected Load List. All references herein to the equipment are referring to the corrected Load List.

Details regarding the FCC Rules and the methodology used to determine compliance may be seen below.

### SITE AND FACILITY CONSIDERATIONS

Site 6260 North Stonington CT is located at 118C Wintechog Road, off of Rt. 2 in North Stonington, Connecticut at coordinates 41.45983, -71.92733. The support structure is a 251' self-support tower.

All data used in this study was provided by one or more of the following sources:

1. ATC furnished data
2. Compiled from carrier and manufacturer standard configurations
3. Empirical data collected by LBA

AT&T proposes to add antennas to the tower at the 175' level. The structure already supports several antennas. This study only considers the new AT&T facility in detail.

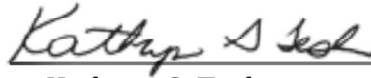
The load list may be seen in Appendix 1. Appendix 2 contains the AT&T channel counts, frequency bands, and power levels. AT&T Antenna information may be seen in Appendix 3.

## POWER DENSITY CALCULATIONS

Based upon the provided information and the FCC limits for exposure as outlined in 47 CFR 1.1307(b)(1) - (b)(3), the power levels and percentages of the FCC's allowable general population limit are shown in Appendix 4. Calculations were done at industry standard average head height of six feet above ground level.

A summary of the power density from all emitters may be seen in Appendix 5.

These limits are based upon the Information Relating to MPE Standards found in Appendix 6. Study methodology may be seen in Appendix 7, which describes the Non-Ionizing Radiation Prediction Models. Approximate radiation patterns may be found in Appendix 5. This site ***IS*** in compliance with FCC OET-65 MPE limits.



October 15<sup>th</sup>, 2020  
Revision 2

---

Kathryn G. Tesh  
Wireless Services Manager



# APPENDIX 1 *Load List*

Customer	RAD Height	Equipment Quantity	Equipment Type	Manufacturer	Model Number	Line Quantity	Line size	Mount Type	Azimuths	TX Power	ERP	TX Frequency	RX Frequency
STATE OF CT	260	1	OMNI	Decibel	DB809DK-XT	2	1 5/8" Coax	Leg/Flush	0			869	822
SPRINT NEXTEL	246	3	PANEL	RFS	APXVSP18-C-A20	1	1" conduit	Sector Frame	0/120/240			1990-1995, 862-869	1910-1915, 817-824
SPRINT NEXTEL	246	3	PANEL	KMW	ETCR-654L12H6				30/150/270			1850-1995, 2496-2690, 806-869	1850-1995, 2496-2690, 806-869
SIGFOX S.A.	236	1	OMNI	Procom	CXL 900-3LW			Side Arm	0			906	906
T-MOBILE	225	3	PANEL	RFS	APXVAARR24_4 3-U-NA20	1	1 5/8" Hybriflex	Sector Frame	60/180/300			668-698, 728-747	622-652, 698-717
T-MOBILE	225	3	PANEL	Ericsson	AIR 21, 1.3M, B2A B4P (91.5 lbs)	6	1 5/8" Coax	Sector Frame	60/180/300			1930-1990, 2110-2180	1710-1780, 1850-1910
T-MOBILE	225	3	PANEL	Ericsson	AIR 21, 1.3M, B4A B2P (90.4 lbs)			Sector Frame	60/180/300			1710-2150	1710-2150
STATE OF CT	207	1	OMNI	Sinclair	SC479-HF1LDF(E5765)	1	1 5/8" Coax	Side Arm	1			774	804, 826
STATE OF CT	192	2	OMNI	Sinclair	SC479-HF1LDF(E5765)	2	1 5/8" Coax	Side Arm	360/0			774	804, 826
AT&T MOBILITY	175	3	PANEL	Allgon	7770.00	6	1 5/8" Coax	Sector Frame	23/143/263			1930-1935, 1945-1950, 1965-1970, 1982-1990, 891-894	1930-1935, 1945-1950, 1965-1970, 1982-1990, 891-894
AT&T MOBILITY	175	3	PANEL	CCI	DMP65R-BU8D	0		Sector Frame	53/165/285			1745-1755, 1770-1780, 704-716, 824-845, 869-890	2145-2155, 2170-2180, 728-746, 845-849, 890-894
AT&T MOBILITY	175	3	PANEL	CCI	OPA65R-BU8D	0		Sector Frame	53/165/285			1850-1865, 1885-1910, 704-716	1930-1945, 1965-1990, 728-746
STATE OF CT	83	1	DISH-RADOME		PAG-65AC w/ Radome	1	WE65	Stand-Off	250.67			6405	6153

# APPENDIX 2

## AT&T Channels Used

Antenna	Technology	Frequency Band	Channel Count	Transmitter Power per Channel (W)
AT&T A1	LTE	1900	1	40
AT&T A2	LTE	1900	1	40
AT&T A3	LTE	1900	1	40
AT&T A4	LTE	1900	1	40
AT&T A5	UMTS	850	1	40
AT&T A6	LTE	1700	1	40
AT&T A7	LTE	1700	1	40
AT&T A8	LTE	700	1	40
AT&T A9	UMTS	850	1	40
AT&T A10	UMTS	850	1	40
AT&T A11	LTE	1800	1	40
AT&T A12	LTE	1900	1	40
AT&T A13	LTE	700	1	40
AT&T B1	LTE	1900	1	40
AT&T B2	LTE	1900	1	40
AT&T B3	LTE	1900	1	40
AT&T B4	LTE	1900	1	40
AT&T B5	UMTS	850	1	40
AT&T B6	LTE	1700	1	40
AT&T B7	LTE	1700	1	40
AT&T B8	LTE	700	1	40
AT&T B9	UMTS	850	1	40
AT&T B10	UMTS	850	1	40
AT&T B11	LTE	1800	1	40
AT&T B12	LTE	1900	1	40
AT&T B13	LTE	700	1	40
AT&T C1	LTE	1900	1	40
AT&T C2	LTE	1900	1	40
AT&T C3	LTE	1900	1	40
AT&T C4	LTE	1900	1	40
AT&T C5	UMTS	850	1	40
AT&T C6	LTE	1700	1	40
AT&T C7	LTE	1700	1	40
AT&T C8	LTE	700	1	40
AT&T C9	UMTS	850	1	40
AT&T C10	UMTS	850	1	40
AT&T C11	LTE	1800	1	40
AT&T C12	LTE	1900	1	40
AT&T C13	LTE	700	1	40



# APPENDIX 3

## AT&T Antenna Information

Sector	Antenna Number	Antenna Make / Model	Antenna Centerline (ft)
A	AT&T A1	Allgon 7770.00	175
A	AT&T A2	Allgon 7770.00	175
A	AT&T A3	Allgon 7770.00	175
A	AT&T A4	Allgon 7770.00	175
A	AT&T A5	Allgon 7770.00	175
A	AT&T A6	CCI DMP65R-BU8D	175
A	AT&T A7	CCI DMP65R-BU8D	175
A	AT&T A8	CCI DMP65R-BU8D	175
A	AT&T A9	CCI DMP65R-BU8D	175
A	AT&T A10	CCI DMP65R-BU8D	175
A	AT&T A11	CCI OPA65R-BU8D	175
A	AT&T A12	CCI OPA65R-BU8D	175
A	AT&T A13	CCI OPA65R-BU8D	175
B	AT&T B1	Allgon 7770.00	175
B	AT&T B2	Allgon 7770.00	175
B	AT&T B3	Allgon 7770.00	175
B	AT&T B4	Allgon 7770.00	175
B	AT&T B5	Allgon 7770.00	175
A	AT&T B6	CCI DMP65R-BU8D	175
A	AT&T B7	CCI DMP65R-BU8D	175
A	AT&T B8	CCI DMP65R-BU8D	175
A	AT&T B9	CCI DMP65R-BU8D	175
A	AT&T B10	CCI DMP65R-BU8D	175
A	AT&T B11	CCI OPA65R-BU8D	175
A	AT&T B12	CCI OPA65R-BU8D	175
A	AT&T B13	CCI OPA65R-BU8D	175
C	AT&T C1	Allgon 7770.00	175
C	AT&T C2	Allgon 7770.00	175
C	AT&T C3	Allgon 7770.00	175
C	AT&T C4	Allgon 7770.00	175
C	AT&T C5	Allgon 7770.00	175
A	AT&T C6	CCI DMP65R-BU8D	175
A	AT&T C7	CCI DMP65R-BU8D	175
A	AT&T C8	CCI DMP65R-BU8D	175
A	AT&T C9	CCI DMP65R-BU8D	175
A	AT&T C10	CCI DMP65R-BU8D	175
A	AT&T C11	CCI OPA65R-BU8D	175
A	AT&T C12	CCI OPA65R-BU8D	175
A	AT&T C13	CCI OPA65R-BU8D	175

# APPENDIX 4

## FCC OET-65 MPE Limit Study

Antenna ID	Antenna Make / Model	Frequency Band	Antenna Gain (dBd)	Antenna Height (ft)	Channel Count	TX Power (W)	ERP (W) (All Channels)	Total Power Density ( $\mu\text{W}/\text{cm}^2$ )	Allowable Public MPE ( $\mu\text{W}/\text{cm}^2$ )	Public MPE%
AT&T A1	Allgon 7770.00	1900	13.35	175	1	40	1419.25	0.4574784	1000.00	0.045748%
AT&T A2	Allgon 7770.00	1900	13.35	175	1	40	1419.25	0.4574784	1000.00	0.045748%
AT&T A3	Allgon 7770.00	1900	13.35	175	1	40	1419.25	0.4574784	1000.00	0.045748%
AT&T A4	Allgon 7770.00	1900	13.35	175	1	40	1419.25	0.4574784	1000.00	0.045748%
AT&T A5	Allgon 7770.00	850	11.45	175	1	40	916.35	0.1478841	566.67	0.026097%
AT&T A6	CCI DMP65R-BU8D	1700	14.85	175	1	40	2004.75	0.4155734	1000.00	0.041557%
AT&T A7	CCI DMP65R-BU8D	1700	14.85	175	1	40	2004.75	0.4155734	1000.00	0.041557%
AT&T A8	CCI DMP65R-BU8D	700	11.95	175	1	40	1028.16	0.0683569	466.67	0.014648%
AT&T A9	CCI DMP65R-BU8D	850	12.95	175	1	40	1294.37	0.4934362	566.67	0.087077%
AT&T A10	CCI DMP65R-BU8D	850	12.95	175	1	40	1294.37	0.4934362	566.67	0.087077%
AT&T A11	CCI OPA65R-BU8D	1800	14.95	175	1	40	2051.45	0.4252534	1000.00	0.042525%
AT&T A12	CCI OPA65R-BU8D	1900	14.95	175	1	40	2051.45	0.4252534	1000.00	0.042525%
AT&T A13	CCI OPA65R-BU8D	700	12.55	175	1	40	1180.48	0.4500192	466.67	0.096433%
AT&T B1	Allgon 7770.00	1900	13.35	175	1	40	1419.25	0.4574784	1000.00	0.045748%
AT&T B2	Allgon 7770.00	1900	13.35	175	1	40	1419.25	0.4574784	1000.00	0.045748%
AT&T B3	Allgon 7770.00	1900	13.35	175	1	40	1419.25	0.4574784	1000.00	0.045748%
AT&T B4	Allgon 7770.00	1900	13.35	175	1	40	1419.25	0.4574784	1000.00	0.045748%
AT&T B5	Allgon 7770.00	850	11.45	175	1	40	916.35	0.1478841	566.67	0.026097%
AT&T B6	CCI DMP65R-BU8D	1700	14.85	175	1	40	2004.75	0.4155734	1000.00	0.041557%
AT&T B7	CCI DMP65R-BU8D	1700	14.85	175	1	40	2004.75	0.4155734	1000.00	0.041557%
AT&T B8	CCI DMP65R-BU8D	700	11.95	175	1	40	1028.16	0.0683569	466.67	0.014648%
AT&T B9	CCI DMP65R-BU8D	850	12.95	175	1	40	1294.37	0.4934362	566.67	0.087077%
AT&T B10	CCI DMP65R-BU8D	850	12.95	175	1	40	1294.37	0.4934362	566.67	0.087077%
AT&T B11	CCI OPA65R-BU8D	1800	14.95	175	1	40	2051.45	0.4252534	1000.00	0.042525%
AT&T B12	CCI OPA65R-BU8D	1900	14.95	175	1	40	2051.45	0.4252534	1000.00	0.042525%
AT&T B13	CCI OPA65R-BU8D	700	12.55	175	1	40	1180.48	0.4500192	466.67	0.096433%
AT&T C1	Allgon 7770.00	1900	13.35	175	1	40	1419.25	0.4574784	1000.00	0.045748%
AT&T C2	Allgon 7770.00	1900	13.35	175	1	40	1419.25	0.4574784	1000.00	0.045748%
AT&T C3	Allgon 7770.00	1900	13.35	175	1	40	1419.25	0.4574784	1000.00	0.045748%
AT&T C4	Allgon 7770.00	1900	13.35	175	1	40	1419.25	0.4574784	1000.00	0.045748%
AT&T C5	Allgon 7770.00	850	11.45	175	1	40	916.35	0.1478841	566.67	0.026097%
AT&T C6	CCI DMP65R-BU8D	1700	14.85	175	1	40	2004.75	0.4155734	1000.00	0.041557%
AT&T C7	CCI DMP65R-BU8D	1700	14.85	175	1	40	2004.75	0.4155734	1000.00	0.041557%
AT&T C8	CCI DMP65R-BU8D	700	11.95	175	1	40	1028.16	0.0683569	466.67	0.014648%
AT&T C9	CCI DMP65R-BU8D	850	12.95	175	1	40	1294.37	0.4934362	566.67	0.087077%
AT&T C10	CCI DMP65R-BU8D	850	12.95	175	1	40	1294.37	0.4934362	566.67	0.087077%
AT&T C11	CCI OPA65R-BU8D	1800	14.95	175	1	40	2051.45	0.4252534	1000.00	0.042525%
AT&T C12	CCI OPA65R-BU8D	1900	14.95	175	1	40	2051.45	0.4252534	1000.00	0.042525%
AT&T C13	CCI OPA65R-BU8D	700	12.55	175	1	40	1180.48	0.4500192	466.67	0.096433%
AT&T All Sectors									<b>Total:</b>	<b>1.9875%</b>



---

# APPENDIX 5

## Summary of Power Density

---

Carriers	Power Density Value (% of General Population)
AT&T All Sectors:	1.9875%
Other Carriers:	0.7427%
Site Total:	2.7302%
Site Compliance Status:	<b>Compliant</b>



---

## APPENDIX 6

### *Information Pertaining to MPE Studies*

---

In 1985, the FCC first adopted guidelines to be used for evaluating human exposure to RF emissions. The FCC revised and updated these guidelines on August 1, 1996, as a result of a rule-making proceeding initiated in 1993. The new guidelines incorporate limits for Maximum Permissible Exposure (MPE) in terms of electric and magnetic field strength and power density for transmitters operating at frequencies between 300 kHz and 100 GHz.

The FCC's MPE limits are based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP) and, over a wide range of frequencies, the exposure limits were developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI guidelines. Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

The FCC's limits, and the NCRP and ANSI/IEEE limits on which they are based, are derived from exposure criteria quantified in terms of specific absorption rate (SAR). The basis for these limits is a whole-body averaged SAR threshold level of 4 watts per kilogram (4 W/kg), as averaged over the entire mass of the body, above which expert organizations have determined that potentially hazardous exposures may occur. The MPE limits are derived by incorporating safety factors that lead, in some cases, to limits that are more conservative than the limits originally adopted by the FCC in 1985. Where more conservative limits exist, they do not arise from a fundamental change in the RF safety criteria for whole-body averaged SAR, but from a precautionary desire to protect subgroups of the general population who, potentially, may be more at risk.

The FCC exposure limits are also based on data showing that the human body absorbs RF energy at some frequencies more efficiently than at others. The most restrictive limits occur in the frequency range of 30-300 MHz where whole-body absorption of RF energy by human beings is most efficient. At other frequencies, whole-body absorption is less efficient, and consequently, the MPE limits are less restrictive.

MPE limits are defined in terms of power density (units of milliwatts per centimeter squared: mW/cm<sup>2</sup>), electric field strength (units of volts per meter: V/m) and magnetic field strength (units of amperes per meter: A/m). The far-field of a transmitting antenna is where the electric field vector (E), the

magnetic field vector (H), and the direction of propagation can be considered to be all mutually orthogonal ("plane-wave" conditions).

The FCC guidelines define two separate tiers of exposure limits. As defined by the FCC, these limits are:

**Occupational/controlled exposure** limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

**General population/uncontrolled exposure** limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment-related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area. Additional details can be found in FCC OET 65.

For the purposes of this study, only General population/uncontrolled exposure limits were studied.

# APPENDIX 7

## MPE Standards Methodology

This study predicts RF field strength and power density levels that emanate from communications system antennae. It considers all transmitter power levels (less filter and line losses) delivered to each active transmitting antenna at the communications site. Calculations are performed to determine power density and MPE levels for each antenna as well as composite levels from all antennas. The calculated levels are based on where a human (Observer) would be standing at various locations at the site. The point of interest where the MPE level is predicted is based on the height of the Observer.

Compliance with the FCC limits on RF emissions are determined by spatially averaging a person's exposure over the projected area of an adult human body, that is approximately six-feet or two-meters, as defined in the ANSI/IEEE C95.1 standard. The MPE limits are specified as time-averaged exposure limits. This means that exposure is averaged over an identifiable time interval. It is 30 minutes for the general population/uncontrolled RF environment and 6 minutes for the occupational/controlled RF environment. However, in the case of the general public, time averaging should not be applied because the general public is typically not aware of RF exposure and they do not have control of their exposure time. Therefore, it should be assumed that any RF exposure to the general public will be continuous.

The FCC's limits for exposure at different frequencies are shown in the following Tables.

Limits for Occupational/Controlled Exposure				
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

Where:

f = frequency

\* = Plane-wave equivalent power density

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

Limits for General Population/Uncontrolled Exposure				
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

Where:

f = frequency

\* = Plane-wave equivalent power density

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

It is important to understand that these limits apply cumulatively to all sources of RF emissions affecting a given area. For example, if several different communications system antennas occupy a shared facility such as a tower or rooftop, then the total exposure from all systems at the facility must be within compliance of the FCC guidelines.

The field strength emanating from an antenna can be estimated based on the characteristics of an antenna radiating in free space. There are basically two field areas associated with a radiating antenna. When close to the antenna, the region is known as the Near Field. Within this region, the characteristics of the RF fields are very complex and the wave front is extremely curved. As you move further from the antenna, the wave front has less curvature and becomes planar. The wave front still

has a curvature but it appears to occupy a flat plane in space (plane-wave radiation). This region is known as the Far Field.

Two models are utilized to predict Near and Far field power densities. They are based on the formulae in FCC OET 65. As this study is concerned only with Near Field calculations, we will only describe the model used for this study. For additional details, refer to FCC OET Bulletin 65.

### **Cylindrical Model (Near Field Predictions)**

Spatially averaged plane-wave equivalent power densities parallel to the antenna may be estimated by dividing the antenna input power by the surface area of an imaginary cylinder surrounding the length of the radiating antenna. While the actual power density will vary along the height of the antenna, the average value along its length will closely follow the relation given by the following equation:

$$S = P \div 2\pi RL$$

Where:

S = Power Density

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length

For directional-type antennas, power densities can be estimated by dividing the input power by that portion of a cylindrical surface area corresponding to the angular beam width of the antenna. For example, for the case of a 120-degree azimuthal beam width, the surface area should correspond to 1/3 that of a full cylinder. This would increase the power density near the antenna by a factor of three over that for a purely omni-directional antenna. Mathematically, this can be represented by the following formula:

$$S = (180 / \theta_{BW}) P \div \pi RL$$

Where:

S = Power Density

$\theta_{BW}$  = Beam width of antenna in degrees (3 dB half-power point)

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length

If the antenna is a 360-degree omni-directional antenna, this formula would be equivalent to the previous formula.

## Spherical Model (Far Field Predictions)

Spatially averaged plane-wave power densities in the Far Field of an antenna may be estimated by considering the additional factors of antenna gain and reflective waves that would contribute to exposure.

The radiation pattern of an antenna has developed in the Far Field region and the power gain needs to be considered in exposure predictions. Also, if the vertical radiation pattern of the antenna is considered, the exposure predictions would most likely be reduced significantly at ground level, resulting in a more realistic estimate of the actual exposure levels.

Additionally, to model a truly "worst case" prediction of exposure levels at or near a surface, such as at ground-level or on a rooftop, reflection off the surface of antenna radiation power can be assumed, resulting in a potential four-fold increase in power density.

These additional factors are considered and the Far Field prediction model is determined by the following equation:

$$S = EIRP \times Rc \div 4\pi R^2$$

Where:

S = Power Density

EIRP = Effective Radiated Power from antenna

Rc = Reflection Coefficient (2.56)

R = Distance from the antenna

The EIRP includes the antenna gain. If the antenna pattern is considered, the antenna gain is relative based on the horizontal and vertical pattern gain values at that particular location in space, on a rooftop or on the ground. However, it is recommended that the antenna radiation pattern characteristics not be considered to provide a conservative "worst case" prediction. This is the equation is utilized for the Far Field exposure predictions herein.

## EXHIBIT 6





**AMERICAN TOWER®**  
CORPORATION

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## Structural Analysis Report

**Structure** : 250 ft Self Supported Tower  
**ATC Site Name** : NORTH STONINGTON CT, CT  
**ATC Asset Number** : 6260  
**Engineering Number** : 13151947\_C3\_09  
**Proposed Carrier** : AT&T MOBILITY  
**Carrier Site Name** : MRCTB045090  
**Carrier Site Number** : CTL02027  
**Site Location** : 118C Wintechog Hill Rd., off of Rt. 2  
North Stonington, CT 06359-1228  
41.459800,-71.927300  
**County** : New London  
**Date** : December 3, 2020  
**Max Usage** : 61%  
**Result** : Pass



Prepared By:  
Garret D. Heath  
Structural Engineer II

Reviewed By:

COA: PEC.0001553



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## Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 250 ft self supported tower to reflect the change in loading by AT&T MOBILITY.

## Supporting Documents

<b>Tower Drawings</b>	FWT Job #19240001, dated September 13, 1999
<b>Foundation Drawing</b>	FWT Job #19240001, dated September 13, 1999
<b>Geotechnical Report</b>	Clarence Welti Associates, dated August 31, 1999
<b>Mount Analysis</b>	ATC Engineering #13151947_C8_01, dated October 20, 2020
<b>Mount Modification</b>	ATC Engineering #13151947_C9_08, dated November 11, 2020

## 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>	127 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-H / 2015 IBC / 2018 Connecticut State Building Code
<b>Exposure Category:</b>	B
<b>Risk Category:</b>	II
<b>Topographic Factor Procedure:</b>	Method 1
<b>Topographic Category:</b>	1
<b>Spectral Response:</b>	$S_s = 0.19, S_1 = 0.05$
<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**

Elev. <sup>1</sup> (ft)	Qty	Antenna	Mount Type	Lines	Carrier
260.0	2	Generic 10' Omni	Leg	(4) 1 5/8" Coax	OTHER
	1	Decibel DB809DK-XT	Leg	(2) 1 5/8" Coax	STATE OF CT
250.0	1	Box Enclosures BEN-92P	Sector Frame	(4) 0.21" (5.3mm) Cat 5e (4) 1 1/4" Hybriflex Cable (1) 1" conduit	SPRINT NEXTEL
246.0	3	RFS APXVSP18-C-A20			
	3	Alcatel-Lucent TD-RRH8x20-25			
	3	Alcatel-Lucent 1900 MHz 4X45 RRH			
	6	Alcatel-Lucent RRH2x50-08			
236.0	3	KMW ETCR-654L12H6			
	1	Procom CXL 900-3LW	Leg	(1) 1/2" Coax	SIGFOX S.A.
	1	Generic 5" x 3" x 2" Cavity Filter			
1	Generic Low Noise Amplifier				
225.0	3	Ericsson Radio 4449 B12,B71	Sector Frame	(6) 1 5/8" Coax (4) 1 5/8" Hybriflex	T-MOBILE
	3	Ericsson AIR 21, 1.3M, B2A B4P (91.5 lbs)			
	3	Ericsson AIR 21, 1.3M, B4A B2P (90.4 lbs)			
	3	RFS APXVAARR24_43-U-NA20			
207.0	1	Sinclair SC479-HF1LDF(E5765)	Side Arm	(1) 1 5/8" Coax	STATE OF CT
200.0	1	Bird 432E-83I-01-T		(1) 0.51" (13mm) Cable	
192.0	2	Sinclair SC479-HF1LDF(E5765)		(2) 1 5/8" Coax	
175.0	6	Powerwave Allgon LGP21901	Sector Frame	(1) 0.39" (10mm) Fiber Trunk (2) 0.78" (19.7mm) 8 AWG 6 (6) 1 5/8" Coax	AT&T MOBILITY
	3	Allgon 7770.00			
	1	Raycap DC6-48-60-18-8F (23.5" Height)			
155.0	6	Kathrein Scala 800 10504	Sector Frame	(12) 1 5/8" Coax (6) 3/8" Coax	METRO PCS INC
	6	Kathrein Scala 860 10025			
96.0	1	Generic 24" x 24" Ice Shield	Leg	-	OTHER
89.0	1	Generic 6' Dish w/ Radome	Leg	(1) 1/2" Coax (1) EW52	
83.0	1	RFS PA6-65AC w/ Radome	Leg	(1) WE65	

**Equipment to be Removed**

Elev. <sup>1</sup> (ft)	Qty	Antenna	Mount Type	Lines	Carrier
175.0	6	LGP Allgon LGP21903	-	(6) 1 5/8" Coax	AT&T MOBILITY
	3	Ericsson RRUS-11 1900 MHz			
	1	Powerwave Allgon P65-17-XLH-RR			
	3	Allgon 7770.00			
	1	Andrew SBNH-1D6565C (60.8 lbs)			
	1	KMW AM-X-CD-14-65-00T-RET			



**Proposed Equipment**

Elev. <sup>1</sup> (ft)	Qty	Antenna	Mount Type	Lines	Carrier
175.0	6	Powerwave Allgon LGP21901	Sector Frame w/ Site Pro Stabilizer Kit (Part No. SCX2-K)	(1) 0.39" (9.8mm) Cable (2) 0.78" (19.7mm) 8 AWG 6 (2) 3" conduit	AT&T MOBILITY
	3	Powerwave Allgon 7020			
	1	Raycap DC6-48-60-18-8F ("Squid")			
	3	Ericsson RRUS 8843 B2, B66A			
	3	Ericsson RRUS 4478 B14			
	3	Ericsson RRUS 4449 B5, B12			
	3	CCI DMP65R-BU8D			
	3	CCI OPA65R-BU8D			

<sup>1</sup> Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.

Install proposed coax alongside of the existing AT&T MOBILITY coax.

**Structure Usages**

Structural Component	Controlling Usage	Pass/Fail
Legs	47%	Pass
Diagonals	61%	Pass
Horizontals	2%	Pass
Anchor Bolts	50%	Pass
Leg Bolts	46%	Pass

**Foundations**

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Uplift (Kips)	556.7	751.5	415.6	55%
Axial (Kips)	673.9	909.8	501.7	55%
Shear (Kips)	63.2	85.3	51.2	60%

\* The design reactions are factored by 1.35 per ANSI/TIA-222-G, Sec. 15.5.1

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



**Deflection, Twist and Sway\***

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Twist (°)	Sway (Rotation) (°)
175.0	Powerwave Allgon LGP21901	AT&T MOBILITY	0.152	0.011	0.101
	Powerwave Allgon 7020				
	Raycap DC6-48-60-18-8F ("Squid")				
	Ericsson RRUS 8843 B2, B66A				
	Ericsson RRUS 4478 B14				
	Ericsson RRUS 4449 B5, B12				
	CCI DMP65R-BU8D				
CCI OPA65R-BU8D					
89.0	Generic 6' Dish w/ Radome	OTHER	0.036	0.005	0.049
83.0	RFS PA6-65AC w/ Radome	STATE OF CT			

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



## Standard Conditions

All engineering services performed by A.T. Engineering Service, PLLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

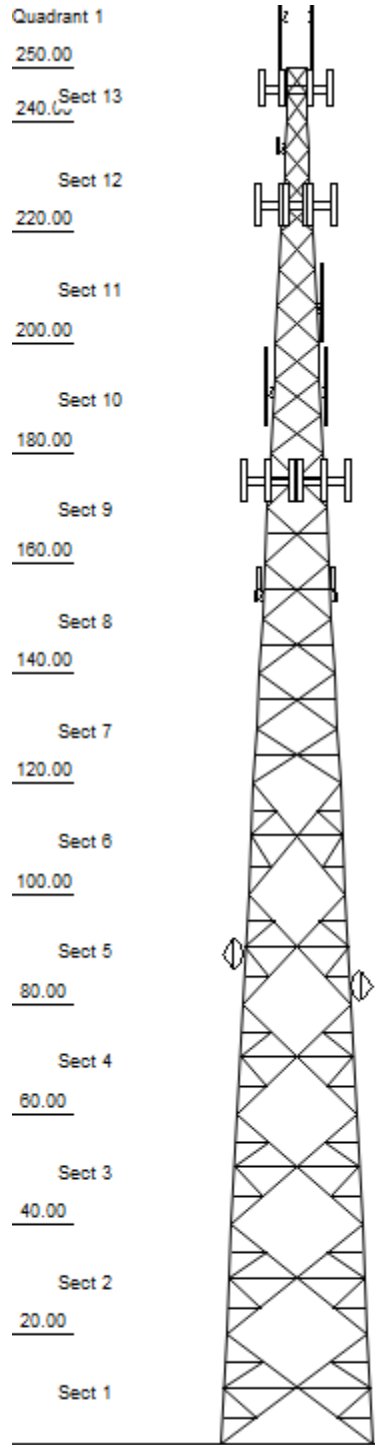
- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

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.

All assets of American Tower Corporation, its affiliates and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and A.T. Engineering Service, PLLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

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 supplied herein.



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Loads: 127 mph no ice  
 50 mph w/ 3/4" radial ice  
 Site Class: D Ss: 0.19 S1: 0.05  
 60 mph Serviceability

Job Information			
Client : AT&T MOBILITY			
Tower : 6260	Location : NORTH	Base Width : 28.00 ft	
Code : ANSI/TIA-222-H	Topo Method: Method 1	Top Width : 4.00 ft	
Risk Cat : II	Topo: 1	Tower Ht : 250.00 ft	
	Exposure : B	Shape : Triangle	

Sections Properties			
Section	Leg Members	Diagonal Members	Horizontal Members
1	SOL 50 ksi 5 3/4" SOLID	DAE 36 ksi 3X3X0.25	
2	SOL 50 ksi 5 1/2" SOLID	DAE 36 ksi 3X3X0.25	
3	SOL 50 ksi 5 1/4" SOLID	DAE 36 ksi 3X3X0.25	
4	SOL 50 ksi 5" SOLID	DAE 36 ksi 3X3X0.1875	
5	SOL 50 ksi 4 3/4" SOLID	DAE 36 ksi 3X3X0.1875	
6	SOL 50 ksi 4 1/2" SOLID	DAE 36 ksi 3X3X0.1875	
7	SOL 50 ksi 4 1/4" SOLID	DAE 36 ksi 2.5X2.5X0.1875	
8	SOL 50 ksi 4" SOLID	DAE 36 ksi 2.5X2.5X0.1875	
9	SOL 50 ksi 3 3/4" SOLID	SAE 36 ksi 3.5X3.5X0.25	
10	SOL 50 ksi 3 3/4" SOLID	SAE 36 ksi 3X3X0.1875	
11	SOL 50 ksi 3 1/4" SOLID	SAE 36 ksi 2.5X2.5X0.1875	
12	SOL 50 ksi 2 1/4" SOLID	SAE 36 ksi 1.75X1.75X0.1875	
13	SOL 50 ksi 2" SOLID	SAE 36 ksi 1.75X1.75X0.1875	SAE 36 ksi 2X2X0.1875

Redundant Secondary Bracing						
Section	Sub Diag 1	Sub Horiz 1	Sub Diag 2	Sub Horiz 2	Sub Diag 3	Sub Horiz 3
1	D2.5X2.5X0.1875	D2.5X2.5X0.1875	D2.5X2.5X0.1875	D3X3X0.1875	-	D2.5X2.5X0.18
2	D2X2X0.1875	D2X2X0.1875	D2X2X0.1875	D3X3X0.1875	-	D2X2X0.1875
3	D2X2X0.1875	D2X2X0.1875	D2X2X0.1875	D2.5X2.5X0.1875	-	D2X2X0.1875
4	S3X3X0.1875	S2.5X2.5X0.1875	S3X3X0.1875	S3.5X3.5X0.25	-	S2.5X2.5X0.18
5	S3X3X0.1875	S2.5X2.5X0.1875	S3X3X0.1875	S3X3X0.25	-	S2.5X2.5X0.18
6	S2.5X2.5X0.1875	S2X2X0.1875	S2.5X2.5X0.1875	S3X3X0.1875	-	S2X2X0.1875
7	-	S3X3X0.1875	-	-	-	-
8	-	S2.5X2.5X0.1875	-	-	-	-
9	-	S2X2X0.1875	-	-	-	-
10 - 13	-	-	-	-	-	-

Discrete Appurtenance			
Elev (ft)	Type	Qty	Description
260.00	Whip	1	Decibel DB809DK-XT
260.00	Whip	2	Generic 10' Omni
250.00		1	Box Enclosures BEN-92P
246.00	Mounting Frame	3	Round Sector Frames
246.00	Panel	3	KMW ETCR-654L12H6
246.00	Panel	3	RFS APXVSP18-C-A20
246.00		3	Alcatel-Lucent TD-RRH8x20-25
246.00		3	Alcatel-Lucent 1900 MHz 4X45 R
246.00		6	Alcatel-Lucent RRH2x50-08
236.00		1	Generic Low Noise Amplifier
236.00		1	Generic 5" x 3" x 2" Cavity Fi
236.00	Whip	1	Procom CXL 900-3LW
225.00	Mounting Frame	3	Round Sector Frames
225.00	Panel	3	RFS APXVAARR24_43-U-NA20
225.00	Panel	3	Ericsson AIR 21, 1.3M, B4A B2P
225.00	Panel	3	Ericsson AIR 21, 1.3M, B2A B4P
225.00		3	Ericsson Radio 4449 B12,B71
207.00	Whip	1	Sinclair SC479-HF1LDF(E5765)
200.00	Straight Arm	3	Flat Side Arm
200.00		1	Bird 432E-83I-01-T
192.00	Whip	2	Sinclair SC479-HF1LDF(E5765)
175.00	Mounting Frame	3	Generic Heavy Sector Frame
175.00	Panel	3	CCI OPA65R-BU8D
175.00	Panel	3	CCI DMP65R-BU8D
175.00	Panel	3	Allgon 7770.00



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Job Information		
Client : AT&T MOBILITY		
Tower : 6260	Location : NORTH	Base Width : 28.00 ft
Code : ANSI/TIA-222-H	Topo Method: Method 1	Top Width : 4.00 ft
Risk Cat : II	Topo: 1	Tower Ht : 250.00 ft
	Exposure : B	Shape : Triangle

175.00	3	Ericsson RRUS 4449 B5, B12
175.00	3	Ericsson RRUS 4478 B14
175.00	6	Powerwave Allgon LGP17201
175.00	3	Ericsson RRUS 8843 B2, B66A
175.00	1	Raycap DC6-48-60-18-8F ("Squid
175.00	1	Raycap DC6-48-60-18-8F (23.5"
175.00	3	Powerwave Allgon 7020
175.00	6	Powerwave Allgon LGP21901
158.00	3	Mounting Frame Flat Light Sector Frame
155.00	6	Panel Kathrein Scala 800 10504
155.00	6	Kathrein Scala 860 10025
96.00	1	Other Generic 24" x 24" Ice Shield
89.00	1	Dish Generic 6' Dish w/ Radome
83.00	1	Dish RFS PA6-65AC w/ Radome

Linear Appurtenance			
Elev (ft)			
From	To	Qty	Description
0.00	260.00	2	1 5/8" Coax
0.00	260.00	4	1 5/8" Coax
0.00	250.00	1	Waveguide
0.00	250.00	1	Climbing Ladder
0.00	246.00	1	Waveguide
0.00	246.00	1	1" conduit
0.00	246.00	4	1 1/4" Hybriflex Cab
0.00	246.00	4	0.21" (5.3mm) Cat 5e
0.00	236.00	1	1/2" Coax
0.00	225.00	1	Waveguide
0.00	225.00	4	1 5/8" Hybriflex
0.00	225.00	6	1 5/8" Coax
0.00	210.00	1	Waveguide
0.00	207.00	1	1 5/8" Coax
10.00	200.00	1	0.51" (13mm) Cable
0.00	192.00	2	1 5/8" Coax
10.00	175.00	2	3" conduit
10.00	175.00	4	0.78" (19.7mm) 8 AWG
10.00	175.00	1	0.39" (10mm) Fiber T
0.00	175.00	1	Waveguide
0.00	175.00	6	1 5/8" Coax
0.00	175.00	1	0.39" (9.8mm) Cable
0.00	158.00	1	Waveguide
0.00	155.00	6	3/8" Coax
0.00	155.00	12	1 5/8" Coax
0.00	89.00	1	EW52
0.00	89.00	1	1/2" Coax
0.00	83.00	1	WE65

Global Base Foundation Design Loads			
Load Case	Moment (k-ft)	Vertical (kip)	Horizontal (kip)
DL + WL	11,283.94	109.16	85.63
DL + WL + IL	3,255.45	174.71	25.19

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<b>Job Information</b>		
<b>Client : AT&amp;T MOBILITY</b>		
<b>Tower : 6260</b>	<b>Location : NORTH</b>	<b>Base Width : 28.00 ft</b>
<b>Code : ANSI/TIA-222-H</b>	<b>Topo Method: Method 1</b>	<b>Top Width : 4.00 ft</b>
<b>Risk Cat : II</b>	<b>Topo: 1</b>	<b>Tower Ht : 250.00 ft</b>
	<b>Exposure : B</b>	<b>Shape : Triangle</b>

<b>Individual Base Foundation Design Loads</b>		
<b>Vertical (kip)</b>	<b>Uplift (kip)</b>	<b>Horizontal (kip)</b>
501.73	415.59	51.20

Site Number: 6260

Code:

ANSI/TIA-222-H

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 13151947\_C3\_09

12/3/2020 10:17:22 AM

Customer: AT&T MOBILITY

### Analysis Parameters

Location:	New London County, CT	Height (ft):	250
Code:	ANSI/TIA-222-H	Base Elevation (ft):	0.00
Shape:	Triangle	Bottom Face Width (ft):	28.00
Tower Manufacturer:	FWT	Top Face Width (ft):	4.00
Tower Type:	Self Support	Anchor Bolt Detail Type	d
Kd:	0.85		
Ke:	0.98		

### Ice & Wind Parameters

Exposure Category:	B	Design Windspeed Without Ice:	127 mph
Risk Category:	II	Design Windspeed With Ice:	50 mph
Topographic Factor Procedure:	Method 1	Operational Windspeed:	60 mph
Topographic Category:	1	Design Ice Thickness:	0.75 in
Crest Height:	0 ft	HMSL:	448.00 ft

### Seismic Parameters

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil		
Period Based on Rayleigh Method (sec):	0.88		
T <sub>L</sub> (sec):	6	p:	1.3
S <sub>S</sub> :	0.188	S <sub>1</sub> :	0.053
F <sub>a</sub> :	1.600	F <sub>V</sub> :	2.400
S <sub>ds</sub> :	0.201	S <sub>d1</sub> :	0.085
		C <sub>S</sub> :	0.032
		C <sub>S</sub> , Max:	0.032
		C <sub>S</sub> , Min:	0.030

### Load Cases

1.2D + 1.0W Normal	127 mph Normal with No Ice
1.2D + 1.0W 60 deg	127 mph 60 degree with No Ice
1.2D + 1.0W 90 deg	127 mph 90 degree with No Ice
0.9D + 1.0W Normal	127 mph Normal with No Ice (Reduced DL)
0.9D + 1.0W 60 deg	127 mph 60 deg with No Ice (Reduced DL)
0.9D + 1.0W 90 deg	127 mph 90 deg with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi Normal	50 mph Normal with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 60 deg	50 mph 60 deg with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 90 deg	50 mph 90 deg with 0.75 in Radial Ice
1.2D + 1.0Ev + 1.0Eh Normal	Seismic Normal
1.2D + 1.0Ev + 1.0Eh 60 deg	Seismic 60 deg
1.2D + 1.0Ev + 1.0Eh 90 deg	Seismic 90 deg
0.9D - 1.0Ev + 1.0Eh Normal	Seismic (Reduced DL) Normal
0.9D - 1.0Ev + 1.0Eh 60 deg	Seismic (Reduced DL) 60 deg
0.9D - 1.0Ev + 1.0Eh 90 deg	Seismic (Reduced DL) 90 deg
1.0D + 1.0W Service Normal	Serviceability - 60 mph Wind Normal
1.0D + 1.0W Service 60 deg	Serviceability - 60 mph Wind 60 deg
1.0D + 1.0W Service 90 deg	Serviceability - 60 mph Wind 90 deg

Site Number: 6260

Code: ANSI/TIA-222-H

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 13151947\_C3\_09

12/3/2020 10:17:22 AM

Customer: AT&T MOBILITY

### Tower Loading

#### Discrete Appurtenance Properties 1.2D + 1.0W

Elevation (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K <sub>a</sub>	Orient. Factor	Vert. Ecc.(ft)	M <sub>u</sub> (lb-ft)	Q <sub>z</sub> (psf)	F <sub>a</sub> (WL) (lb)	P <sub>a</sub> (DL) (lb)
260.0	Generic 10' Omni	2	25	3.0	10.0	3.0	3.0	1.00	1.00	0.0	0.0	44.84	229	60
260.0	Decibel DB809DK-XT	1	64	6.3	21.2	3.0	3.0	1.00	1.00	0.0	0.0	44.84	242	77
250.0	Box Enclosures BEN-	1	2	0.7	0.8	8.0	5.1	0.80	1.00	0.0	0.0	44.34	20	3
246.0	Alcatel-Lucent	6	53	1.7	1.3	13.0	9.8	0.80	0.50	0.0	0.0	44.13	153	381
246.0	Alcatel-Lucent 1900	3	60	2.3	2.1	11.1	10.7	0.80	0.50	0.0	0.0	44.13	105	216
246.0	Alcatel-Lucent TD-	3	66	3.7	2.1	17.5	5.7	0.80	0.50	0.0	0.0	44.13	167	238
246.0	RFS APXVSPP18-C-	3	57	8.0	6.0	11.8	7.0	0.80	0.69	0.0	0.0	44.13	498	205
246.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	44.13	814	1080
246.0	KMW ETCR-	3	85	15.7	7.1	21.0	6.3	0.80	0.61	0.0	0.0	44.13	863	306
236.0	Procom CXL 900-	1	2	0.1	2.3	0.6	0.6	1.00	1.00	0.0	0.0	43.61	5	2
236.0	Generic 5" x 3" x 2"	1	2	0.1	0.4	3.2	1.9	1.00	0.50	0.0	0.0	43.61	3	2
236.0	Generic Low Noise	1	2	0.2	0.4	4.0	2.0	1.00	0.50	0.0	0.0	43.61	3	2
225.0	Ericsson Radio 4449	3	74	1.6	1.2	13.2	9.3	0.80	0.50	0.0	0.0	43.02	72	266
225.0	Ericsson AIR 21,	3	92	6.0	4.7	12.0	7.8	0.80	0.70	0.0	0.0	43.02	371	329
225.0	Ericsson AIR 21,	3	90	6.1	4.7	12.1	7.9	0.80	0.70	0.0	0.0	43.02	374	325
225.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	43.02	794	1080
225.0	RFS	3	128	20.2	8.0	24.0	8.7	0.80	0.63	0.0	0.0	43.02	1119	460
207.0	Sinclair SC479-	1	34	5.0	14.4	3.5	3.5	1.00	1.00	0.0	0.0	42.01	180	41
200.0	Bird 432E-83I-01-T	1	25	1.2	1.0	12.0	7.5	0.80	0.67	0.0	0.0	41.60	23	30
200.0	Flat Side Arm	3	150	6.3	0.0	0.0	0.0	1.00	0.67	0.0	0.0	41.60	448	540
192.0	Sinclair SC479-	2	34	5.0	14.4	3.5	3.5	0.90	1.00	0.0	0.0	41.12	316	82
175.0	Powerwave Allgon	6	6	0.2	0.3	6.0	3.0	0.80	0.50	0.0	0.0	40.04	16	40
175.0	Powerwave Allgon	3	2	0.3	0.4	8.3	2.4	0.80	0.50	0.0	0.0	40.04	14	8
175.0	Raycap DC6-48-60-	1	20	1.3	2.0	9.7	9.7	0.80	0.67	0.0	0.0	40.04	23	24
175.0	Raycap DC6-48-60-	1	32	1.5	2.0	11.0	11.0	0.80	1.00	0.0	0.0	40.04	40	38
175.0	Ericsson RRUS 8843	3	72	1.6	1.2	13.2	10.9	0.80	0.50	0.0	0.0	40.04	67	259
175.0	Powerwave Allgon	6	31	1.7	1.2	14.4	3.7	0.80	0.50	0.0	0.0	40.04	136	223
175.0	Ericsson RRUS 4478	3	60	1.8	1.4	13.4	7.7	0.80	0.50	0.0	0.0	40.04	75	216
175.0	Ericsson RRUS 4449	3	71	2.0	1.5	13.2	9.4	0.80	0.50	0.0	0.0	40.04	80	256
175.0	Allgon 7770.00	3	35	5.5	4.6	11.0	5.0	0.80	0.65	0.0	0.0	40.04	292	126
175.0	CCI DMP65R-BU8D	3	96	17.9	8.0	20.7	7.7	0.80	0.63	0.0	0.0	40.04	920	345
175.0	CCI OPA65R-BU8D	3	77	18.1	8.0	21.0	7.8	0.80	0.63	0.0	0.0	40.04	931	275
175.0	Generic Heavy	3	500	29.3	0.0	0.0	0.0	0.75	0.75	0.0	0.0	40.04	1683	1800
158.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.0	38.89	892	1440
155.0	Kathrein Scala 860	6	1	0.2	0.6	2.4	2.0	0.80	0.50	0.0	0.0	38.68	12	9
155.0	Kathrein Scala 800	6	18	3.3	4.5	6.1	2.7	0.80	0.66	3.0	1050.6	38.89	350	127
96.00	Generic 24" x 24"	1	50	0.8	0.3	24.0	24.0	1.00	1.00	0.0	0.0	33.73	23	60
89.00	Generic 6' Dish w/	1	250	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.0	33.01	685	300
83.00	RFS PA6-65AC w/	1	308	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.0	32.36	671	370
Totals		106	9699	704.5									13710	11639

#### Discrete Appurtenance Properties 0.9D + 1.0W

Elevation (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K <sub>a</sub>	Orient. Factor	Vert. Ecc.(ft)	M <sub>u</sub> (lb-ft)	Q <sub>z</sub> (psf)	F <sub>a</sub> (WL) (lb)	P <sub>a</sub> (DL) (lb)
260.0	Generic 10' Omni	2	25	3.0	10.0	3.0	3.0	1.00	1.00	0.0	0.0	44.84	229	45
260.0	Decibel DB809DK-XT	1	64	6.3	21.2	3.0	3.0	1.00	1.00	0.0	0.0	44.84	242	58
250.0	Box Enclosures BEN-	1	2	0.7	0.8	8.0	5.1	0.80	1.00	0.0	0.0	44.34	20	2
246.0	Alcatel-Lucent	6	53	1.7	1.3	13.0	9.8	0.80	0.50	0.0	0.0	44.13	153	286
246.0	Alcatel-Lucent 1900	3	60	2.3	2.1	11.1	10.7	0.80	0.50	0.0	0.0	44.13	105	162
246.0	Alcatel-Lucent TD-	3	66	3.7	2.1	17.5	5.7	0.80	0.50	0.0	0.0	44.13	167	178
246.0	RFS APXVSPP18-C-	3	57	8.0	6.0	11.8	7.0	0.80	0.69	0.0	0.0	44.13	498	154

### Tower Loading

246.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	44.13	814	810
246.0	KMW ETCR-	3	85	15.7	7.1	21.0	6.3	0.80	0.61	0.0	0.0	44.13	863	229
236.0	Procom CXL 900-	1	2	0.1	2.3	0.6	0.6	1.00	1.00	0.0	0.0	43.61	5	1
236.0	Generic 5" x 3" x 2"	1	2	0.1	0.4	3.2	1.9	1.00	0.50	0.0	0.0	43.61	3	1
236.0	Generic Low Noise	1	2	0.2	0.4	4.0	2.0	1.00	0.50	0.0	0.0	43.61	3	2
225.0	Ericsson Radio 4449	3	74	1.6	1.2	13.2	9.3	0.80	0.50	0.0	0.0	43.02	72	200
225.0	Ericsson AIR 21,	3	92	6.0	4.7	12.0	7.8	0.80	0.70	0.0	0.0	43.02	371	247
225.0	Ericsson AIR 21,	3	90	6.1	4.7	12.1	7.9	0.80	0.70	0.0	0.0	43.02	374	244
225.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	43.02	794	810
225.0	RFS	3	128	20.2	8.0	24.0	8.7	0.80	0.63	0.0	0.0	43.02	1119	345
207.0	Sinclair SC479-	1	34	5.0	14.4	3.5	3.5	1.00	1.00	0.0	0.0	42.01	180	31
200.0	Bird 432E-83I-01-T	1	25	1.2	1.0	12.0	7.5	0.80	0.67	0.0	0.0	41.60	23	23
200.0	Flat Side Arm	3	150	6.3	0.0	0.0	0.0	1.00	0.67	0.0	0.0	41.60	448	405
192.0	Sinclair SC479-	2	34	5.0	14.4	3.5	3.5	0.90	1.00	0.0	0.0	41.12	316	61
175.0	Powerwave Allgon	6	6	0.2	0.3	6.0	3.0	0.80	0.50	0.0	0.0	40.04	16	30
175.0	Powerwave Allgon	3	2	0.3	0.4	8.3	2.4	0.80	0.50	0.0	0.0	40.04	14	6
175.0	Raycap DC6-48-60-	1	20	1.3	2.0	9.7	9.7	0.80	0.67	0.0	0.0	40.04	23	18
175.0	Raycap DC6-48-60-	1	32	1.5	2.0	11.0	11.0	0.80	1.00	0.0	0.0	40.04	40	29
175.0	Ericsson RRUS 8843	3	72	1.6	1.2	13.2	10.9	0.80	0.50	0.0	0.0	40.04	67	194
175.0	Powerwave Allgon	6	31	1.7	1.2	14.4	3.7	0.80	0.50	0.0	0.0	40.04	136	167
175.0	Ericsson RRUS 4478	3	60	1.8	1.4	13.4	7.7	0.80	0.50	0.0	0.0	40.04	75	162
175.0	Ericsson RRUS 4449	3	71	2.0	1.5	13.2	9.4	0.80	0.50	0.0	0.0	40.04	80	192
175.0	Allgon 7770.00	3	35	5.5	4.6	11.0	5.0	0.80	0.65	0.0	0.0	40.04	292	95
175.0	CCI DMP65R-BU8D	3	96	17.9	8.0	20.7	7.7	0.80	0.63	0.0	0.0	40.04	920	258
175.0	CCI OPA65R-BU8D	3	77	18.1	8.0	21.0	7.8	0.80	0.63	0.0	0.0	40.04	931	207
175.0	Generic Heavy	3	500	29.3	0.0	0.0	0.0	0.75	0.75	0.0	0.0	40.04	1683	1350
158.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.0	38.89	892	1080
155.0	Kathrein Scala 860	6	1	0.2	0.6	2.4	2.0	0.80	0.50	0.0	0.0	38.68	12	6
155.0	Kathrein Scala 800	6	18	3.3	4.5	6.1	2.7	0.80	0.66	3.0	1050.6	38.89	350	95
96.00	Generic 24" x 24"	1	50	0.8	0.3	24.0	24.0	1.00	1.00	0.0	0.0	33.73	23	45
89.00	Generic 6' Dish w/	1	250	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.0	33.01	685	225
83.00	RFS PA6-65AC w/	1	308	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.0	32.36	671	277
Totals		106	9699	704.5									13710	8729

### Discrete Appurtenance Properties 1.2D + 1.0Di + 1.0Wi

Elevation (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K <sub>a</sub>	Orient. Factor	Vert. Ecc.(ft)	M <sub>u</sub> (lb-ft)	Q <sub>z</sub> (psf)	F <sub>a</sub> (WL) (lb)	P <sub>a</sub> (DL) (lb)
260.0	Generic 10' Omni	2	65	4.9	10.0	3.0	3.0	1.00	1.00	0.0	0.0	6.95	58	140
260.0	Decibel DB809DK-XT	1	148	10.3	21.2	3.0	3.0	1.00	1.00	0.0	0.0	6.95	61	160
250.0	Box Enclosures BEN-	1	14	1.0	0.8	8.0	5.1	0.80	1.00	0.0	0.0	6.87	4	14
246.0	Alcatel-Lucent	6	84	2.2	1.3	13.0	9.8	0.80	0.50	0.0	0.0	6.84	30	568
246.0	Alcatel-Lucent 1900	3	102	2.9	2.1	11.1	10.7	0.80	0.50	0.0	0.0	6.84	20	343
246.0	Alcatel-Lucent TD-	3	110	4.4	2.1	17.5	5.7	0.80	0.50	0.0	0.0	6.84	31	369
246.0	RFS APXVSPP18-C-	3	148	9.5	6.0	11.8	7.0	0.80	0.69	0.0	0.0	6.84	91	478
246.0	Round Sector	3	494	23.1	0.0	0.0	0.0	0.75	0.67	0.0	0.0	6.84	203	1661
246.0	KMW ETCR-	3	237	17.4	7.1	21.0	6.3	0.80	0.61	0.0	0.0	6.84	148	762
236.0	Procom CXL 900-	1	4	0.5	2.3	0.6	0.6	1.00	1.00	0.0	0.0	6.76	3	5
236.0	Generic 5" x 3" x 2"	1	4	0.3	0.4	3.2	1.9	1.00	0.50	0.0	0.0	6.76	1	4
236.0	Generic Low Noise	1	5	0.3	0.4	4.0	2.0	1.00	0.50	0.0	0.0	6.76	1	5
225.0	Ericsson Radio 4449	3	103	2.1	1.2	13.2	9.3	0.80	0.50	0.0	0.0	6.67	14	354
225.0	Ericsson AIR 21,	3	168	7.2	4.7	12.0	7.8	0.80	0.70	0.0	0.0	6.67	68	558
225.0	Ericsson AIR 21,	3	167	7.2	4.7	12.1	7.9	0.80	0.70	0.0	0.0	6.67	69	554
225.0	Round Sector	3	492	23.1	0.0	0.0	0.0	0.75	0.67	0.0	0.0	6.67	197	1657
225.0	RFS	3	333	22.2	8.0	24.0	8.7	0.80	0.63	0.0	0.0	6.67	190	1076
207.0	Sinclair SC479-	1	98	7.7	14.4	3.5	3.5	1.00	1.00	0.0	0.0	6.51	43	105

Site Number: 6260

Code: ANSI/TIA-222-H

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 13151947\_C3\_09

12/3/2020 10:17:22 AM

Customer: AT&T MOBILITY

### Tower Loading

200.0	Bird 432E-83I-01-T	1	46	1.6	1.0	12.0	7.5	0.80	0.67	0.0	0.0	6.45	5	51
200.0	Flat Side Arm	3	188	7.6	0.0	0.0	0.0	1.00	0.67	0.0	0.0	6.45	83	653
192.0	Sinclair SC479-	2	98	7.7	14.4	3.5	3.5	0.90	1.00	0.0	0.0	6.37	75	209
175.0	Powerwave Allgon	6	9	0.4	0.3	6.0	3.0	0.80	0.50	0.0	0.0	6.21	5	63
175.0	Powerwave Allgon	3	7	0.5	0.4	8.3	2.4	0.80	0.50	0.0	0.0	6.21	3	23
175.0	Raycap DC6-48-60-	1	47	1.6	2.0	9.7	9.7	0.80	0.67	0.0	0.0	6.21	5	51
175.0	Raycap DC6-48-60-	1	63	1.8	2.0	11.0	11.0	0.80	1.00	0.0	0.0	6.21	8	69
175.0	Ericsson RRUS 8843	3	103	2.1	1.2	13.2	10.9	0.80	0.50	0.0	0.0	6.21	13	352
175.0	Powerwave Allgon	6	50	2.1	1.2	14.4	3.7	0.80	0.50	0.0	0.0	6.21	27	339
175.0	Ericsson RRUS 4478	3	88	2.3	1.4	13.4	7.7	0.80	0.50	0.0	0.0	6.21	15	300
175.0	Ericsson RRUS 4449	3	104	2.4	1.5	13.2	9.4	0.80	0.50	0.0	0.0	6.21	15	354
175.0	Allgon 7770.00	3	96	6.0	4.6	11.0	5.0	0.80	0.65	0.0	0.0	6.21	50	309
175.0	CCI DMP65R-BU8D	3	268	19.7	8.0	20.7	7.7	0.80	0.63	0.0	0.0	6.21	157	862
175.0	CCI OPA65R-BU8D	3	251	20.0	8.0	21.0	7.8	0.80	0.63	0.0	0.0	6.21	159	800
175.0	Generic Heavy	3	779	38.1	0.0	0.0	0.0	0.75	0.75	0.0	0.0	6.21	339	2638
158.0	Flat Light Sector	3	551	25.5	0.0	0.0	0.0	0.75	0.67	0.0	0.0	6.03	197	1892
155.0	Kathrein Scala 860	6	4	0.3	0.6	2.4	2.0	0.80	0.50	0.0	0.0	6.00	4	27
155.0	Kathrein Scala 800	6	49	4.3	4.5	6.1	2.7	0.80	0.66	3.0	207.1	6.03	69	316
96.00	Generic 24" x 24"	1	94	1.2	0.3	24.0	24.0	1.00	1.00	0.0	0.0	5.23	5	104
89.00	Generic 6' Dish w/	1	579	25.5	6.0	72.0	0.0	1.00	1.00	0.0	0.0	5.12	111	629
83.00	RFS PA6-65AC w/	1	637	25.5	6.0	72.0	0.0	1.00	1.00	0.0	0.0	5.02	109	699
Totals		106	17613	887.1									2684	19553

### Discrete Appurtenance Properties 1.0D + 1.0W Service

Elevation (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K <sub>a</sub>	Orient. Factor	Vert. Ecc.(ft)	M <sub>u</sub> (lb-ft)	Q <sub>z</sub> (psf)	F <sub>a</sub> (WL) (lb)	P <sub>a</sub> (DL) (lb)
260.0	Generic 10' Omni	2	25	3.0	10.0	3.0	3.0	1.00	1.00	0.0	0.0	10.01	51	50
260.0	Decibel DB809DK-XT	1	64	6.3	21.2	3.0	3.0	1.00	1.00	0.0	0.0	10.01	54	64
250.0	Box Enclosures BEN-	1	2	0.7	0.8	8.0	5.1	0.80	1.00	0.0	0.0	9.90	4	2
246.0	Alcatel-Lucent	6	53	1.7	1.3	13.0	9.8	0.80	0.50	0.0	0.0	9.85	34	317
246.0	Alcatel-Lucent 1900	3	60	2.3	2.1	11.1	10.7	0.80	0.50	0.0	0.0	9.85	23	180
246.0	Alcatel-Lucent TD-	3	66	3.7	2.1	17.5	5.7	0.80	0.50	0.0	0.0	9.85	37	198
246.0	RFS APXVSPP18-C-	3	57	8.0	6.0	11.8	7.0	0.80	0.69	0.0	0.0	9.85	111	171
246.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	9.85	182	900
246.0	KMW ETCR-	3	85	15.7	7.1	21.0	6.3	0.80	0.61	0.0	0.0	9.85	193	255
236.0	Procom CXL 900-	1	2	0.1	2.3	0.6	0.6	1.00	1.00	0.0	0.0	9.73	1	2
236.0	Generic 5" x 3" x 2"	1	2	0.1	0.4	3.2	1.9	1.00	0.50	0.0	0.0	9.73	1	2
236.0	Generic Low Noise	1	2	0.2	0.4	4.0	2.0	1.00	0.50	0.0	0.0	9.73	1	2
225.0	Ericsson Radio 4449	3	74	1.6	1.2	13.2	9.3	0.80	0.50	0.0	0.0	9.60	16	222
225.0	Ericsson AIR 21,	3	92	6.0	4.7	12.0	7.8	0.80	0.70	0.0	0.0	9.60	83	275
225.0	Ericsson AIR 21,	3	90	6.1	4.7	12.1	7.9	0.80	0.70	0.0	0.0	9.60	84	271
225.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	9.60	177	900
225.0	RFS	3	128	20.2	8.0	24.0	8.7	0.80	0.63	0.0	0.0	9.60	250	384
207.0	Sinclair SC479-	1	34	5.0	14.4	3.5	3.5	1.00	1.00	0.0	0.0	9.38	40	34
200.0	Bird 432E-83I-01-T	1	25	1.2	1.0	12.0	7.5	0.80	0.67	0.0	0.0	9.29	5	25
200.0	Flat Side Arm	3	150	6.3	0.0	0.0	0.0	1.00	0.67	0.0	0.0	9.29	100	450
192.0	Sinclair SC479-	2	34	5.0	14.4	3.5	3.5	0.90	1.00	0.0	0.0	9.18	71	68
175.0	Powerwave Allgon	6	6	0.2	0.3	6.0	3.0	0.80	0.50	0.0	0.0	8.94	4	33
175.0	Powerwave Allgon	3	2	0.3	0.4	8.3	2.4	0.80	0.50	0.0	0.0	8.94	3	7
175.0	Raycap DC6-48-60-	1	20	1.3	2.0	9.7	9.7	0.80	0.67	0.0	0.0	8.94	5	20
175.0	Raycap DC6-48-60-	1	32	1.5	2.0	11.0	11.0	0.80	1.00	0.0	0.0	8.94	9	32
175.0	Ericsson RRUS 8843	3	72	1.6	1.2	13.2	10.9	0.80	0.50	0.0	0.0	8.94	15	216
175.0	Powerwave Allgon	6	31	1.7	1.2	14.4	3.7	0.80	0.50	0.0	0.0	8.94	30	186
175.0	Ericsson RRUS 4478	3	60	1.8	1.4	13.4	7.7	0.80	0.50	0.0	0.0	8.94	17	180
175.0	Ericsson RRUS 4449	3	71	2.0	1.5	13.2	9.4	0.80	0.50	0.0	0.0	8.94	18	213

Site Number: 6260

Code: ANSI/TIA-222-H

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 13151947\_C3\_09

12/3/2020 10:17:22 AM

Customer: AT&T MOBILITY

### Tower Loading

175.0 Allgon 7770.00	3	35	5.5	4.6	11.0	5.0	0.80	0.65	0.0	0.0	8.94	65	105
175.0 CCI DMP65R-BU8D	3	96	17.9	8.0	20.7	7.7	0.80	0.63	0.0	0.0	8.94	205	287
175.0 CCI OPA65R-BU8D	3	77	18.1	8.0	21.0	7.8	0.80	0.63	0.0	0.0	8.94	208	230
175.0 Generic Heavy	3	500	29.3	0.0	0.0	0.0	0.75	0.75	0.0	0.0	8.94	376	1500
158.0 Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.0	8.68	199	1200
155.0 Kathrein Scala 860	6	1	0.2	0.6	2.4	2.0	0.80	0.50	0.0	0.0	8.63	3	7
155.0 Kathrein Scala 800	6	18	3.3	4.5	6.1	2.7	0.80	0.66	3.0	234.5	8.68	78	106
96.00 Generic 24" x 24"	1	50	0.8	0.3	24.0	24.0	1.00	1.00	0.0	0.0	7.53	5	50
89.00 Generic 6' Dish w/	1	250	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.0	7.37	153	250
83.00 RFS PA6-65AC w/	1	308	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.0	7.22	150	308
Totals	106	9699	704.5									3060	9699

Site Number: 6260

Code:

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 13151947\_C3\_09

12/3/2020 10:17:22 AM

Customer: AT&T MOBILITY

### Tower Loading

#### Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out Of Zone	Spacing (in)	Orientation Factor	Ka Override
0.00	260.0	1 5/8" Coax	4	1.98	0.82	100	1	Individual	0.00	N	1.00	1.00	0.00
0.00	260.0	1 5/8" Coax	2	1.98	0.82	100	1	Individual	0.00	N	1.00	1.00	0.00
0.00	250.0	Climbing Ladder	1	1.50	6.90	100	3	Individual	0.00	N	1.00	1.00	0.00
0.00	250.0	Waveguide	1	1.50	6.00	100	3	Individual	0.00	N	1.00	1.00	0.00
0.00	246.0	0.21" (5.3mm) Cat	4	0.21	0.02	100	3	Individual	0.00	N	1.00	1.00	0.00
0.00	246.0	1 1/4" Hybriflex	4	1.54	1.00	100	3	Individual	0.00	N	1.00	1.00	0.00
0.00	246.0	1" conduit	1	1.32	1.68	100	3	Individual	0.00	N	1.00	1.00	0.00
0.00	246.0	Waveguide	1	2.00	6.00	100	3	Individual	0.00	N	1.00	1.00	0.00
0.00	236.0	1/2" Coax	1	0.63	0.15	100	1	Individual	0.00	N	1.00	1.00	0.00
0.00	225.0	1 5/8" Coax	6	1.98	0.82	100	2	Individual	0.00	N	1.00	1.00	0.00
0.00	225.0	1 5/8" Hybriflex	4	1.98	1.30	100	None	Individual	0.00	N	1.00	1.00	0.00
0.00	225.0	Waveguide	1	2.00	6.00	100	2	Individual	0.00	N	1.00	1.00	0.00
0.00	210.0	Waveguide	1	2.00	6.00	100	3	Individual	0.00	N	1.00	1.00	0.00
0.00	207.0	1 5/8" Coax	1	1.98	0.82	100	1	Individual	0.00	N	1.00	1.00	0.00
10.00	200.0	0.51" (13mm)	1	0.51	0.14	100	1	Individual	0.00	N	1.00	1.00	0.00
0.00	192.0	1 5/8" Coax	2	1.98	0.82	100	1	Individual	0.00	N	1.00	1.00	0.00
0.00	175.0	0.39" (9.8mm)	1	0.39	0.07	100	2	Individual	0.00	N	1.00	1.00	0.00
0.00	175.0	1 5/8" Coax	6	1.98	0.82	100	2	Individual	0.00	N	1.00	1.00	0.00
0.00	175.0	Waveguide	1	1.50	6.00	100	2	Individual	0.00	N	1.00	1.00	0.00
10.00	175.0	0.39" (10mm) Fiber	1	0.39	0.06	100	2	Individual	0.00	N	1.00	1.00	0.00
10.00	175.0	0.78" (19.7mm) 8	4	0.78	0.59	100	2	Individual	0.00	N	1.00	1.00	0.00
10.00	175.0	3" conduit	2	3.50	7.58	100	2	Individual	0.00	N	1.00	1.00	0.00
0.00	158.0	Waveguide	1	1.50	6.00	100	3	Individual	0.00	N	1.00	1.00	0.00
0.00	155.0	1 5/8" Coax	12	1.98	0.82	100	3	Individual	0.00	N	1.00	1.00	0.00
0.00	155.0	3/8" Coax	6	0.44	0.08	100	3	Individual	0.00	N	1.00	1.00	0.00
0.00	89.00	1/2" Coax	1	0.63	0.15	100	1	Individual	0.00	N	1.00	1.00	0.00
0.00	89.00	EW52	1	2.25	0.59	100	1	Individual	0.00	N	1.00	1.00	0.00
0.00	83.00	WE65	1	2.03	0.53	100	1	Individual	0.00	N	1.00	1.00	0.00



Site Number: 6260

Code: ANSI/TIA-222-H

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 13151947\_C3\_09

12/3/2020 10:17:22 AM

Customer: AT&T MOBILITY

### Section Forces

#### LoadCase 1.2D + 1.0W Normal

127 mph Normal with No Ice

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section Elev. (ft)	Q <sub>z</sub> (psf)	A <sub>f</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>f</sub>	D <sub>f</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt. (lb)	Ice Wt. (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
13 245.00	44.08	4.274	3.333	0.000	0.183	2.66	1.00	1.00	0.0	6.18	16.41	0.00	914	0	615	537	1151
12 230.00	43.29	8.033	7.512	0.000	0.150	2.77	1.00	1.00	0.0	12.30	34.09	0.00	2218	0	1254	1538	2792
11 210.00	42.18	11.748	10.851	0.000	0.155	2.75	1.00	1.00	0.0	17.91	49.29	0.00	3857	0	1767	2352	4119
10 190.00	40.99	16.341	12.521	0.000	0.155	2.75	1.00	1.00	0.0	23.29	64.11	0.00	4899	0	2234	2530	4764
9 170.00	39.71	20.640	12.521	0.000	0.147	2.78	1.00	1.00	0.0	27.61	76.86	0.00	5966	0	2594	3424	6019
8 150.00	38.32	18.799	13.356	0.000	0.121	2.88	1.00	1.00	0.0	26.09	75.21	0.00	7129	0	2449	4459	6908
7 130.00	36.78	22.219	14.190	0.000	0.119	2.89	1.00	1.00	0.0	29.87	86.33	0.00	7860	0	2699	4537	7236
6 110.00	35.07	25.214	15.025	0.000	0.116	2.90	1.00	1.00	0.0	33.22	96.39	0.00	8342	0	2873	4325	7199
5 90.00	33.11	28.916	15.860	0.000	0.115	2.90	1.00	1.00	0.0	37.31	108.31	0.00	9115	0	3049	4138	7187
4 70.00	30.82	31.741	16.694	0.000	0.113	2.91	1.00	1.00	0.0	40.56	118.12	0.00	9824	0	3094	3956	7050
3 50.00	27.99	33.032	17.529	0.000	0.108	2.93	1.00	1.00	0.0	42.37	124.25	0.00	12217	0	2957	3460	6417
2 30.00	24.19	31.525	18.364	0.000	0.098	2.97	1.00	1.00	0.0	41.11	122.19	0.00	12173	0	2513	2990	5503
1 10.00	24.17	35.935	19.199	0.000	0.100	2.96	1.00	1.00	0.0	44.28	131.18	0.00	13006	0	2695	2900	5595
													97520	0			71940

#### LoadCase 1.2D + 1.0W 60 deg

127 mph 60 degree with No Ice

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section Elev. (ft)	Q <sub>z</sub> (psf)	A <sub>f</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>f</sub>	D <sub>f</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt. (lb)	Ice Wt. (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
13 245.00	44.08	4.274	3.333	0.000	0.183	2.66	0.80	1.00	0.0	5.32	14.14	0.00	914	0	530	537	1066
12 230.00	43.29	8.033	7.512	0.000	0.150	2.77	0.80	1.00	0.0	10.69	29.63	0.00	2218	0	1091	1538	2628
11 210.00	42.18	11.748	10.851	0.000	0.155	2.75	0.80	1.00	0.0	15.56	42.82	0.00	3857	0	1536	2352	3887
10 190.00	40.99	16.341	12.521	0.000	0.155	2.75	0.80	1.00	0.0	20.02	55.12	0.00	4899	0	1921	2530	4450
9 170.00	39.71	20.640	12.521	0.000	0.147	2.78	0.80	1.00	0.0	23.48	65.37	0.00	5966	0	2207	3424	5631
8 150.00	38.32	18.799	13.356	0.000	0.121	2.88	0.80	1.00	0.0	22.33	64.37	0.00	7129	0	2096	4459	6555
7 130.00	36.78	22.219	14.190	0.000	0.119	2.89	0.80	1.00	0.0	25.42	73.48	0.00	7860	0	2297	4537	6834
6 110.00	35.07	25.214	15.025	0.000	0.116	2.90	0.80	1.00	0.0	28.18	81.76	0.00	8342	0	2437	4325	6763
5 90.00	33.11	28.916	15.860	0.000	0.115	2.90	0.80	1.00	0.0	31.53	91.52	0.00	9115	0	2576	4138	6715
4 70.00	30.82	31.741	16.694	0.000	0.113	2.91	0.80	1.00	0.0	34.22	99.64	0.00	9824	0	2610	3956	6566
3 50.00	27.99	33.032	17.529	0.000	0.108	2.93	0.80	1.00	0.0	35.76	104.88	0.00	12217	0	2496	3460	5955
2 30.00	24.19	31.525	18.364	0.000	0.098	2.97	0.80	1.00	0.0	34.81	103.45	0.00	12173	0	2127	2990	5117
1 10.00	24.17	35.935	19.199	0.000	0.100	2.96	0.80	1.00	0.0	37.93	112.36	0.00	13006	0	2309	2909	5218
													97520	0			67386

#### LoadCase 1.2D + 1.0W 90 deg

127 mph 90 degree with No Ice

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section Elev. (ft)	Q <sub>z</sub> (psf)	A <sub>f</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>f</sub>	D <sub>f</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt. (lb)	Ice Wt. (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
13 245.00	44.08	4.274	3.333	0.000	0.183	2.66	0.85	1.00	0.0	5.54	14.71	0.00	914	0	551	537	1088
12 230.00	43.29	8.033	7.512	0.000	0.150	2.77	0.85	1.00	0.0	11.09	30.75	0.00	2218	0	1132	1538	2669
11 210.00	42.18	11.748	10.851	0.000	0.155	2.75	0.85	1.00	0.0	16.15	44.44	0.00	3857	0	1593	2352	3945
10 190.00	40.99	16.341	12.521	0.000	0.155	2.75	0.85	1.00	0.0	20.83	57.36	0.00	4899	0	1999	2530	4528
9 170.00	39.71	20.640	12.521	0.000	0.147	2.78	0.85	1.00	0.0	24.51	68.24	0.00	5966	0	2304	3424	5728

Site Number: 6260

Code:

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 13151947\_C3\_09

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Customer: AT&T MOBILITY

### Section Forces

8	150.00	38.32	18.799	13.356	0.000	0.121	2.88	0.85	1.00	0.0	23.27	67.08	0.00	7129	0	2185	4459	6643
7	130.00	36.78	22.219	14.190	0.000	0.119	2.89	0.85	1.00	0.0	26.53	76.69	0.00	7860	0	2398	4537	6935
6	110.00	35.07	25.214	15.025	0.000	0.116	2.90	0.85	1.00	0.0	29.44	85.42	0.00	8342	0	2546	4325	6872
5	90.00	33.11	28.916	15.860	0.000	0.115	2.90	0.85	1.00	0.0	32.98	95.72	0.00	9115	0	2694	4138	6833
4	70.00	30.82	31.741	16.694	0.000	0.113	2.91	0.85	1.00	0.0	35.80	104.26	0.00	9824	0	2731	3956	6687
3	50.00	27.99	33.032	17.529	0.000	0.108	2.93	0.85	1.00	0.0	37.41	109.72	0.00	12217	0	2611	3460	6071
2	30.00	24.19	31.525	18.364	0.000	0.098	2.97	0.85	1.00	0.0	36.38	108.13	0.00	12173	0	2224	2990	5214
1	10.00	24.17	35.935	19.199	0.000	0.100	2.96	0.85	1.00	0.0	39.72	117.69	0.00	13006	0	2418	2909	5327
														97520	0	68540		

### LoadCase 0.9D + 1.0W Normal

127 mph Normal with No Ice (Reduced DL)

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section Elev. (ft)	Q <sub>z</sub> (psf)	A <sub>f</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>f</sub>	D <sub>f</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt. (lb)	Ice Wt. (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)	
13	245.00	44.08	4.274	3.333	0.000	0.183	2.66	1.00	1.00	0.0	6.18	16.41	0.00	685	0	615	537	1151
12	230.00	43.29	8.033	7.512	0.000	0.150	2.77	1.00	1.00	0.0	12.30	34.09	0.00	1663	0	1254	1538	2792
11	210.00	42.18	11.748	10.851	0.000	0.155	2.75	1.00	1.00	0.0	17.91	49.29	0.00	2893	0	1767	2352	4119
10	190.00	40.99	16.341	12.521	0.000	0.155	2.75	1.00	1.00	0.0	23.29	64.11	0.00	3675	0	2234	2530	4764
9	170.00	39.71	20.640	12.521	0.000	0.147	2.78	1.00	1.00	0.0	27.61	76.86	0.00	4475	0	2594	3424	6019
8	150.00	38.32	18.799	13.356	0.000	0.121	2.88	1.00	1.00	0.0	26.09	75.21	0.00	5347	0	2449	4459	6908
7	130.00	36.78	22.219	14.190	0.000	0.119	2.89	1.00	1.00	0.0	29.87	86.33	0.00	5895	0	2699	4537	7236
6	110.00	35.07	25.214	15.025	0.000	0.116	2.90	1.00	1.00	0.0	33.22	96.39	0.00	6256	0	2873	4325	7199
5	90.00	33.11	28.916	15.860	0.000	0.115	2.90	1.00	1.00	0.0	37.31	108.31	0.00	6836	0	3049	4138	7187
4	70.00	30.82	31.741	16.694	0.000	0.113	2.91	1.00	1.00	0.0	40.56	118.12	0.00	7368	0	3094	3956	7050
3	50.00	27.99	33.032	17.529	0.000	0.108	2.93	1.00	1.00	0.0	42.37	124.25	0.00	9163	0	2957	3460	6417
2	30.00	24.19	31.525	18.364	0.000	0.098	2.97	1.00	1.00	0.0	41.11	122.19	0.00	9130	0	2513	2990	5503
1	10.00	24.17	35.935	19.199	0.000	0.100	2.96	1.00	1.00	0.0	45.11	133.66	0.00	9755	0	2746	2909	5655
														73140	0	72000		

### LoadCase 0.9D + 1.0W 60 deg

127 mph 60 deg with No Ice (Reduced DL)

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section Elev. (ft)	Q <sub>z</sub> (psf)	A <sub>f</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>f</sub>	D <sub>f</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt. (lb)	Ice Wt. (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)	
13	245.00	44.08	4.274	3.333	0.000	0.183	2.66	0.80	1.00	0.0	5.32	14.14	0.00	685	0	530	537	1066
12	230.00	43.29	8.033	7.512	0.000	0.150	2.77	0.80	1.00	0.0	10.69	29.63	0.00	1663	0	1091	1538	2628
11	210.00	42.18	11.748	10.851	0.000	0.155	2.75	0.80	1.00	0.0	15.56	42.82	0.00	2893	0	1536	2352	3887
10	190.00	40.99	16.341	12.521	0.000	0.155	2.75	0.80	1.00	0.0	20.02	55.12	0.00	3675	0	1921	2530	4450
9	170.00	39.71	20.640	12.521	0.000	0.147	2.78	0.80	1.00	0.0	23.48	65.37	0.00	4475	0	2207	3424	5631
8	150.00	38.32	18.799	13.356	0.000	0.121	2.88	0.80	1.00	0.0	22.33	64.37	0.00	5347	0	2096	4459	6555
7	130.00	36.78	22.219	14.190	0.000	0.119	2.89	0.80	1.00	0.0	25.42	73.48	0.00	5895	0	2297	4537	6834
6	110.00	35.07	25.214	15.025	0.000	0.116	2.90	0.80	1.00	0.0	28.18	81.76	0.00	6256	0	2437	4325	6763
5	90.00	33.11	28.916	15.860	0.000	0.115	2.90	0.80	1.00	0.0	31.53	91.52	0.00	6836	0	2576	4138	6715
4	70.00	30.82	31.741	16.694	0.000	0.113	2.91	0.80	1.00	0.0	34.22	99.64	0.00	7368	0	2610	3956	6566
3	50.00	27.99	33.032	17.529	0.000	0.108	2.93	0.80	1.00	0.0	35.76	104.88	0.00	9163	0	2496	3460	5955
2	30.00	24.19	31.525	18.364	0.000	0.098	2.97	0.80	1.00	0.0	34.81	103.45	0.00	9130	0	2127	2990	5117
1	10.00	24.17	35.935	19.199	0.000	0.100	2.96	0.80	1.00	0.0	37.93	112.36	0.00	9755	0	2309	2909	5218
														73140	0	67386		

### Section Forces

LoadCase 0.9D + 1.0W 90 deg

127 mph 90 deg with No Ice (Reduced DL)

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q <sub>z</sub> (psf)	A <sub>f</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>f</sub>	D <sub>f</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt. (lb)	Ice Wt. (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
13	245.00	44.08	4.274	3.333	0.000	0.183	2.66	0.85	1.00	0.0	5.54	14.71	0.00	685	0	551	537	1088
12	230.00	43.29	8.033	7.512	0.000	0.150	2.77	0.85	1.00	0.0	11.09	30.75	0.00	1663	0	1132	1538	2669
11	210.00	42.18	11.748	10.851	0.000	0.155	2.75	0.85	1.00	0.0	16.15	44.44	0.00	2893	0	1593	2352	3945
10	190.00	40.99	16.341	12.521	0.000	0.155	2.75	0.85	1.00	0.0	20.83	57.36	0.00	3675	0	1999	2530	4528
9	170.00	39.71	20.640	12.521	0.000	0.147	2.78	0.85	1.00	0.0	24.51	68.24	0.00	4475	0	2304	3424	5728
8	150.00	38.32	18.799	13.356	0.000	0.121	2.88	0.85	1.00	0.0	23.27	67.08	0.00	5347	0	2185	4459	6643
7	130.00	36.78	22.219	14.190	0.000	0.119	2.89	0.85	1.00	0.0	26.53	76.69	0.00	5895	0	2398	4537	6935
6	110.00	35.07	25.214	15.025	0.000	0.116	2.90	0.85	1.00	0.0	29.44	85.42	0.00	6256	0	2546	4325	6872
5	90.00	33.11	28.916	15.860	0.000	0.115	2.90	0.85	1.00	0.0	32.98	95.72	0.00	6836	0	2694	4138	6833
4	70.00	30.82	31.741	16.694	0.000	0.113	2.91	0.85	1.00	0.0	35.80	104.26	0.00	7368	0	2731	3956	6687
3	50.00	27.99	33.032	17.529	0.000	0.108	2.93	0.85	1.00	0.0	37.41	109.72	0.00	9163	0	2611	3460	6071
2	30.00	24.19	31.525	18.364	0.000	0.098	2.97	0.85	1.00	0.0	36.38	108.13	0.00	9130	0	2224	2990	5214
1	10.00	24.17	35.935	19.199	0.000	0.100	2.96	0.85	1.00	0.0	39.72	117.69	0.00	9755	0	2418	2909	5327
														73140	0			68540

LoadCase 1.2D + 1.0Di + 1.0Wi Normal

50 mph Normal with 0.75 in Radial Ice

Gust Response Factor (Gh): 0.85

Ice Dead Load Factor :1.00

Ice Importance Factor :1.00

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q <sub>z</sub> (psf)	A <sub>f</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>f</sub>	D <sub>f</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt. (lb)	Ice Wt. (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
13	245.00	6.83	4.274	10.912	7.578	0.352	2.17	1.00	1.00	0.9	11.00	23.85	7.58	1675	762	139	194	333
12	230.00	6.71	8.033	22.196	14.68	0.283	2.34	1.00	1.00	0.9	21.21	49.68	14.68	4090	1873	283	613	896
11	210.00	6.54	11.748	25.610	14.75	0.252	2.43	1.00	1.00	0.9	26.74	65.04	14.76	6555	2698	361	919	1280
10	190.00	6.35	16.341	28.500	15.97	0.237	2.48	1.00	1.00	0.9	32.93	81.56	15.98	8027	3128	441	999	1439
9	170.00	6.16	20.640	27.182	14.66	0.209	2.57	1.00	1.00	0.9	36.30	93.19	14.66	9941	3975	488	1336	1824
8	150.00	5.94	18.799	28.727	15.37	0.176	2.68	1.00	1.00	0.9	35.19	94.22	15.37	12350	5221	476	1821	2297
7	130.00	5.70	22.219	30.276	16.08	0.169	2.70	1.00	1.00	0.9	39.47	106.63	16.09	13453	5593	517	1867	2383
6	110.00	5.44	25.214	28.078	13.05	0.152	2.76	1.00	1.00	0.8	41.16	113.74	13.05	13909	5567	526	1796	2322
5	90.00	5.13	28.916	29.023	13.16	0.148	2.78	1.00	1.00	0.8	45.38	126.06	13.16	14812	5697	550	1710	2260
4	70.00	4.78	31.741	29.912	13.21	0.143	2.80	1.00	1.00	0.8	48.70	136.22	13.22	15615	5792	553	1625	2178
3	50.00	4.34	33.032	30.695	13.16	0.135	2.83	1.00	1.00	0.8	50.41	142.50	13.17	18681	6464	526	1463	1989
2	30.00	3.75	31.525	31.254	12.89	0.123	2.87	1.00	1.00	0.7	49.19	141.41	12.89	17897	5724	451	1249	1699
1	10.00	3.75	35.935	31.099	11.90	0.121	2.88	1.00	1.00	0.7	53.51	154.08	11.90	18149	5143	491	1125	1616
														155156	57636			22517

LoadCase 1.2D + 1.0Di + 1.0Wi 60 deg

50 mph 60 deg with 0.75 in Radial Ice

Gust Response Factor (Gh): 0.85

Ice Dead Load Factor :1.00

Ice Importance Factor :1.00

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q <sub>z</sub> (psf)	A <sub>f</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>f</sub>	D <sub>f</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt. (lb)	Ice Wt. (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
13	245.00	6.83	4.274	10.912	7.578	0.352	2.17	0.80	1.00	0.9	10.15	22.00	7.58	1675	762	128	194	322
12	230.00	6.71	8.033	22.196	14.68	0.283	2.34	0.80	1.00	0.9	19.61	45.92	14.68	4090	1873	262	613	875
11	210.00	6.54	11.748	25.610	14.75	0.252	2.43	0.80	1.00	0.9	24.39	59.33	14.76	6555	2698	330	919	1248
10	190.00	6.35	16.341	28.500	15.97	0.237	2.48	0.80	1.00	0.9	29.66	73.47	15.98	8027	3128	397	999	1396
9	170.00	6.16	20.640	27.182	14.66	0.209	2.57	0.80	1.00	0.9	32.17	82.59	14.66	9941	3975	432	1336	1768

Site Number: 6260

Code:

ANSI/TIA-222-H

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 13151947\_C3\_09

12/3/2020 10:17:23 AM

Customer: AT&T MOBILITY

### Section Forces

8	150.00	5.94	18.799	28.727	15.37	0.176	2.68	0.80	1.00	0.9	31.43	84.15	15.37	12350	5221	425	1821	2246
7	130.00	5.70	22.219	30.276	16.08	0.169	2.70	0.80	1.00	0.9	35.03	94.62	16.09	13453	5593	459	1867	2325
6	110.00	5.44	25.214	28.078	13.05	0.152	2.76	0.80	1.00	0.8	36.11	99.81	13.05	13909	5567	461	1796	2257
5	90.00	5.13	28.916	29.023	13.16	0.148	2.78	0.80	1.00	0.8	39.60	110.00	13.16	14812	5697	480	1710	2190
4	70.00	4.78	31.741	29.912	13.21	0.143	2.80	0.80	1.00	0.8	42.35	118.46	13.22	15615	5792	481	1625	2106
3	50.00	4.34	33.032	30.695	13.16	0.135	2.83	0.80	1.00	0.8	43.80	123.82	13.17	18681	6464	457	1463	1920
2	30.00	3.75	31.525	31.254	12.89	0.123	2.87	0.80	1.00	0.7	42.89	123.28	12.89	17897	5724	393	1249	1642
1	10.00	3.75	35.935	31.099	11.90	0.121	2.88	0.80	1.00	0.7	46.33	133.39	11.90	18149	5143	425	1125	1550
														155156	57636			21846

### LoadCase 1.2D + 1.0Di + 1.0Wi 90 deg

50 mph 90 deg with 0.75 in Radial Ice

Gust Response Factor (Gh): 0.85

Ice Dead Load Factor :1.00

Ice Importance Factor :1.00

Wind Importance Factor (Iw) : 1.00

Section Elev. (ft)	Q <sub>z</sub> (psf)	A <sub>f</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>f</sub>	D <sub>f</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt. (lb)	Ice Wt. (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)	
13	245.00	6.83	4.274	10.912	7.578	0.352	2.17	0.85	1.00	0.9	10.36	22.46	7.58	1675	762	130	194	325
12	230.00	6.71	8.033	22.196	14.68	0.283	2.34	0.85	1.00	0.9	20.01	46.86	14.68	4090	1873	267	613	880
11	210.00	6.54	11.748	25.610	14.75	0.252	2.43	0.85	1.00	0.9	24.98	60.76	14.76	6555	2698	338	919	1256
10	190.00	6.35	16.341	28.500	15.97	0.237	2.48	0.85	1.00	0.9	30.47	75.49	15.98	8027	3128	408	999	1407
9	170.00	6.16	20.640	27.182	14.66	0.209	2.57	0.85	1.00	0.9	33.20	85.24	14.66	9941	3975	446	1336	1782
8	150.00	5.94	18.799	28.727	15.37	0.176	2.68	0.85	1.00	0.9	32.37	86.67	15.37	12350	5221	438	1821	2259
7	130.00	5.70	22.219	30.276	16.08	0.169	2.70	0.85	1.00	0.9	36.14	97.62	16.09	13453	5593	473	1867	2340
6	110.00	5.44	25.214	28.078	13.05	0.152	2.76	0.85	1.00	0.8	37.37	103.29	13.05	13909	5567	477	1796	2274
5	90.00	5.13	28.916	29.023	13.16	0.148	2.78	0.85	1.00	0.8	41.05	114.01	13.16	14812	5697	497	1710	2208
4	70.00	4.78	31.741	29.912	13.21	0.143	2.80	0.85	1.00	0.8	43.94	122.90	13.22	15615	5792	499	1625	2124
3	50.00	4.34	33.032	30.695	13.16	0.135	2.83	0.85	1.00	0.8	45.46	128.49	13.17	18681	6464	474	1463	1937
2	30.00	3.75	31.525	31.254	12.89	0.123	2.87	0.85	1.00	0.7	44.47	127.82	12.89	17897	5724	407	1249	1656
1	10.00	3.75	35.935	31.099	11.90	0.121	2.88	0.85	1.00	0.7	48.12	138.56	11.90	18149	5143	441	1125	1567
														155156	57636			22014

### LoadCase 1.0D + 1.0W Service Normal

Serviceability - 60 mph Wind Normal

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section Elev. (ft)	Q <sub>z</sub> (psf)	A <sub>f</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>f</sub>	D <sub>f</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt. (lb)	Ice Wt. (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)	
13	245.00	9.84	4.274	3.333	0.000	0.183	2.66	1.00	1.00	0.0	6.18	16.41	0.00	762	0	137	120	257
12	230.00	9.66	8.033	7.512	0.000	0.150	2.77	1.00	1.00	0.0	12.30	34.09	0.00	1848	0	280	343	623
11	210.00	9.42	11.748	10.851	0.000	0.155	2.75	1.00	1.00	0.0	17.91	49.29	0.00	3214	0	394	525	919
10	190.00	9.15	16.341	12.521	0.000	0.155	2.75	1.00	1.00	0.0	23.45	64.58	0.00	4083	0	502	565	1067
9	170.00	8.86	20.640	12.521	0.000	0.147	2.78	1.00	1.00	0.0	27.74	77.24	0.00	4972	0	582	733	1315
8	150.00	8.55	18.799	13.356	0.000	0.121	2.88	1.00	1.00	0.0	26.35	75.95	0.00	5941	0	552	954	1507
7	130.00	8.21	22.219	14.190	0.000	0.119	2.89	1.00	1.00	0.0	30.24	87.40	0.00	6550	0	610	974	1583
6	110.00	7.83	25.214	15.025	0.000	0.116	2.90	1.00	1.00	0.0	33.70	97.78	0.00	6951	0	651	928	1579
5	90.00	7.39	28.916	15.860	0.000	0.115	2.90	1.00	1.00	0.0	37.88	109.95	0.00	7596	0	691	889	1579
4	70.00	6.88	31.741	16.694	0.000	0.113	2.91	1.00	1.00	0.0	41.17	119.89	0.00	8186	0	701	850	1551
3	50.00	6.25	33.032	17.529	0.000	0.108	2.93	1.00	1.00	0.0	42.93	125.89	0.00	10181	0	669	772	1441
2	30.00	5.40	31.525	18.364	0.000	0.098	2.97	1.00	1.00	0.0	41.89	124.50	0.00	10144	0	571	667	1239
1	10.00	5.40	35.935	19.199	0.000	0.100	2.96	1.00	1.00	0.0	46.77	138.57	0.00	10838	0	635	637	1272
														81267	0			15932

Site Number: 6260

Code: ANSI/TIA-222-H

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 13151947\_C3\_09

12/3/2020 10:17:23 AM

Customer: AT&T MOBILITY

### Section Forces

#### LoadCase 1.0D + 1.0W Service 60 deg

#### Serviceability - 60 mph Wind 60 deg

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section Elev. (ft)	Q <sub>z</sub> (psf)	A <sub>f</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>f</sub>	D <sub>f</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt. (lb)	Ice Wt. (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
13 245.00	9.84	4.274	3.333	0.000	0.183	2.66	0.80	1.00	0.0	5.32	14.14	0.00	762	0	118	120	238
12 230.00	9.66	8.033	7.512	0.000	0.150	2.77	0.80	1.00	0.0	10.69	29.63	0.00	1848	0	243	343	587
11 210.00	9.42	11.748	10.851	0.000	0.155	2.75	0.80	1.00	0.0	15.56	42.82	0.00	3214	0	343	525	868
10 190.00	9.15	16.341	12.521	0.000	0.155	2.75	0.80	1.00	0.0	20.19	55.58	0.00	4083	0	432	565	997
9 170.00	8.86	20.640	12.521	0.000	0.147	2.78	0.80	1.00	0.0	23.61	65.74	0.00	4972	0	495	733	1228
8 150.00	8.55	18.799	13.356	0.000	0.121	2.88	0.80	1.00	0.0	22.59	65.11	0.00	5941	0	473	954	1428
7 130.00	8.21	22.219	14.190	0.000	0.119	2.89	0.80	1.00	0.0	25.79	74.56	0.00	6550	0	520	974	1494
6 110.00	7.83	25.214	15.025	0.000	0.116	2.90	0.80	1.00	0.0	28.66	83.15	0.00	6951	0	553	928	1481
5 90.00	7.39	28.916	15.860	0.000	0.115	2.90	0.80	1.00	0.0	32.09	93.16	0.00	7596	0	585	889	1474
4 70.00	6.88	31.741	16.694	0.000	0.113	2.91	0.80	1.00	0.0	34.82	101.40	0.00	8186	0	593	850	1443
3 50.00	6.25	33.032	17.529	0.000	0.108	2.93	0.80	1.00	0.0	36.32	106.52	0.00	10181	0	566	772	1338
2 30.00	5.40	31.525	18.364	0.000	0.098	2.97	0.80	1.00	0.0	35.58	105.76	0.00	10144	0	485	667	1153
1 10.00	5.40	35.935	19.199	0.000	0.100	2.96	0.80	1.00	0.0	39.58	117.27	0.00	10838	0	538	637	1174
													81267	0			14902

#### LoadCase 1.0D + 1.0W Service 90 deg

#### Serviceability - 60 mph Wind 90 deg

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section Elev. (ft)	Q <sub>z</sub> (psf)	A <sub>f</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>f</sub>	D <sub>f</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt. (lb)	Ice Wt. (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
13 245.00	9.84	4.274	3.333	0.000	0.183	2.66	0.85	1.00	0.0	5.54	14.71	0.00	762	0	123	120	243
12 230.00	9.66	8.033	7.512	0.000	0.150	2.77	0.85	1.00	0.0	11.09	30.75	0.00	1848	0	253	343	596
11 210.00	9.42	11.748	10.851	0.000	0.155	2.75	0.85	1.00	0.0	16.15	44.44	0.00	3214	0	356	525	881
10 190.00	9.15	16.341	12.521	0.000	0.155	2.75	0.85	1.00	0.0	21.00	57.83	0.00	4083	0	450	565	1014
9 170.00	8.86	20.640	12.521	0.000	0.147	2.78	0.85	1.00	0.0	24.65	68.62	0.00	4972	0	517	733	1250
8 150.00	8.55	18.799	13.356	0.000	0.121	2.88	0.85	1.00	0.0	23.53	67.82	0.00	5941	0	493	954	1447
7 130.00	8.21	22.219	14.190	0.000	0.119	2.89	0.85	1.00	0.0	26.90	77.77	0.00	6550	0	543	974	1516
6 110.00	7.83	25.214	15.025	0.000	0.116	2.90	0.85	1.00	0.0	29.92	86.81	0.00	6951	0	578	928	1506
5 90.00	7.39	28.916	15.860	0.000	0.115	2.90	0.85	1.00	0.0	33.54	97.36	0.00	7596	0	612	889	1500
4 70.00	6.88	31.741	16.694	0.000	0.113	2.91	0.85	1.00	0.0	36.41	106.02	0.00	8186	0	620	850	1470
3 50.00	6.25	33.032	17.529	0.000	0.108	2.93	0.85	1.00	0.0	37.97	111.36	0.00	10181	0	591	772	1364
2 30.00	5.40	31.525	18.364	0.000	0.098	2.97	0.85	1.00	0.0	37.16	110.44	0.00	10144	0	507	667	1174
1 10.00	5.40	35.935	19.199	0.000	0.100	2.96	0.85	1.00	0.0	41.38	122.60	0.00	10838	0	562	637	1199
													81267	0			15160

Site Number: 6260

Code:

ANSI/TIA-222-H

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 13151947\_C3\_09

12/3/2020 10:17:23 AM

Customer: AT&T MOBILITY

### Equivalent Lateral Force Method

Spectral Response Acceleration for Short Period ( $S_s$ ):	0.19
Spectral Response Acceleration at 1.0 Second Period ( $S_{d1}$ ):	0.05
Long-Period Transition Period ( $T_L$ - Seconds):	6
Importance Factor ( $I_p$ ):	1.00
Site Coefficient $F_a$ :	1.60
Site Coefficient $F_v$ :	2.40
Response Modification Coefficient (R):	3.00
Design Spectral Response Acceleration at Short Period ( $S_{ds}$ ):	0.20
Design Spectral Response Acceleration at 1.0 Second Period ( $S_{d1}$ ):	0.08
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):	0.88
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	1.19
Total Unfactored Dead Load:	90.97 k
Seismic Base Shear (E):	3.81 k

LoadCase 1.2D + 1.0Ev + 1.0Eh

Seismic

Section	Height Above Base (ft)	Weight (lb)	$W_z$ (lb-ft)	$C_{vx}$	Horizontal Force (lb)	Vertical Force (lb)
13	245.00	762	526,099	0.022	84	945
12	230.00	1,848	1,184,27	0.049	188	2,292
11	210.00	3,214	1,848,46	0.077	294	3,986
10	190.00	4,083	2,084,79	0.087	332	5,063
9	170.00	4,972	2,224,46	0.093	354	6,166
8	150.00	5,941	2,290,65	0.096	365	7,367
7	130.00	6,550	2,130,49	0.089	339	8,123
6	110.00	6,951	1,853,91	0.077	295	8,620
5	90.00	7,596	1,595,93	0.067	254	9,419
4	70.00	8,186	1,275,95	0.053	203	10,152
3	50.00	10,181	1,063,81	0.044	169	12,625
2	30.00	10,144	577,643	0.024	92	12,580
1	10.00	10,838	167,256	0.007	27	13,441
Generic 10' Omni	250.00	50	35,377	0.001	6	62
Decibel DB809DK-XT	250.00	64	45,282	0.002	7	79
Box Enclosures BEN-92P	250.00	2	1,557	0.000	0	3
Alcatel-Lucent RRH2x50-08	246.00	317	220,308	0.009	35	394
Alcatel-Lucent 1900 MHz 4X45 RRH	246.00	180	124,938	0.005	20	223
Alcatel-Lucent TD-RRH8x20-25	246.00	198	137,432	0.006	22	246
RFS APXVSP18-C-A20	246.00	171	118,691	0.005	19	212
Round Sector Frames	246.00	900	624,691	0.026	99	1,116
KMW ETCR-654L12H6	246.00	255	176,787	0.007	28	316
Procom CXL 900-3LW	236.00	2	991	0.000	0	2
Generic 5" x 3" x 2" Cavity Filter	236.00	2	991	0.000	0	2
Generic Low Noise Amplifier	236.00	2	1,321	0.000	0	2

Site Number: 6260

Code:

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 13151947\_C3\_09

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Customer: AT&T MOBILITY

### Equivalent Lateral Force Method

Ericsson Radio 4449 B12,B71	225.00	222	138,587	0.006	22	275
Ericsson AIR 21, 1.3M, B2A B4P (91.5 lbs)	225.00	275	171,360	0.007	27	340
Ericsson AIR 21, 1.3M, B4A B2P (90.4 lbs)	225.00	271	169,300	0.007	27	336
Round Sector Frames	225.00	900	561,838	0.023	89	1,116
RFS APXVAARR24_43-U-NA20	225.00	384	239,530	0.010	38	476
Sinclair SC479-HF1LDF(E5765)	207.00	34	19,223	0.001	3	42
Bird 432E-831-01-T	200.00	25	13,568	0.001	2	31
Flat Side Arm	200.00	450	244,225	0.010	39	558
Sinclair SC479-HF1LDF(E5765)	192.00	68	35,157	0.001	6	84
Powerwave Allgon LGP21901	175.00	33	15,282	0.001	2	41
Powerwave Allgon 7020	175.00	7	3,056	0.000	0	8
Raycap DC6-48-60-18-8F (23.5" Height)	175.00	20	9,262	0.000	1	25
Raycap DC6-48-60-18-8F ("Squid")	175.00	32	14,726	0.001	2	39
Ericsson RRUS 8843 B2, B66A	175.00	216	100,026	0.004	16	268
Powerwave Allgon LGP17201	175.00	186	86,134	0.004	14	231
Ericsson RRUS 4478 B14	175.00	180	83,216	0.003	13	223
Ericsson RRUS 4449 B5, B12	175.00	213	98,637	0.004	16	264
Allgon 7770.00	175.00	105	48,624	0.002	8	130
CCI DMP65R-BU8D	175.00	287	132,951	0.006	21	356
CCI OPA65R-BU8D	175.00	229	106,278	0.004	17	285
Generic Heavy Sector Frame	175.00	1,500	694,625	0.029	111	1,860
Flat Light Sector Frame	158.00	1,200	492,150	0.021	78	1,488
Kathrein Scala 860 10025	155.00	7	2,886	0.000	0	9
Kathrein Scala 800 10504	155.00	106	42,334	0.002	7	131
Generic 24" x 24" Ice Shield	96.00	50	11,343	0.000	2	62
Generic 6' Dish w/ Radome	89.00	250	51,835	0.002	8	310
RFS PA6-65AC w/ Radome	83.00	308	58,778	0.002	9	382
		90,966	23,957,059	1.000	3,812	112,807

### LoadCase 0.9D - 1.0Ev + 1.0Eh

### Seismic (Reduced DL)

Section	Height Above Base (ft)	Weight (lb)	W <sub>z</sub> (lb-ft)	C <sub>vx</sub>	Horizontal Force (lb)	Vertical Force (lb)
13	245.00	762	526,099	0.022	84	655
12	230.00	1,848	1,184,27	0.049	188	1,589
11	210.00	3,214	1,848,46	0.077	294	2,764
10	190.00	4,083	2,084,79	0.087	332	3,511
9	170.00	4,972	2,224,46	0.093	354	4,275
8	150.00	5,941	2,290,65	0.096	365	5,109
7	130.00	6,550	2,130,49	0.089	339	5,632
6	110.00	6,951	1,853,91	0.077	295	5,977
5	90.00	7,596	1,595,93	0.067	254	6,531
4	70.00	8,186	1,275,95	0.053	203	7,039
3	50.00	10,181	1,063,81	0.044	169	8,754
2	30.00	10,144	577,643	0.024	92	8,723
1	10.00	10,838	167,256	0.007	27	9,320
Generic 10' Omni	250.00	50	35,377	0.001	6	43
Decibel DB809DK-XT	250.00	64	45,282	0.002	7	55
Box Enclosures BEN-92P	250.00	2	1,557	0.000	0	2
Alcatel-Lucent RRH2x50-08	246.00	317	220,308	0.009	35	273
Alcatel-Lucent 1900 MHz 4X45 RRH	246.00	180	124,938	0.005	20	155
Alcatel-Lucent TD-RRH8x20-25	246.00	198	137,432	0.006	22	170
RFS APXVSP18-C-A20	246.00	171	118,691	0.005	19	147
Round Sector Frames	246.00	900	624,691	0.026	99	774

Site Number: 6260

Code:

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 13151947\_C3\_09

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Customer: AT&T MOBILITY

### Equivalent Lateral Force Method

KMW ETCR-654L12H6	246.00	255	176,787	0.007	28	219
Procom CXL 900-3LW	236.00	2	991	0.000	0	1
Generic 5" x 3" x 2" Cavity Filter	236.00	2	991	0.000	0	1
Generic Low Noise Amplifier	236.00	2	1,321	0.000	0	2
Ericsson Radio 4449 B12,B71	225.00	222	138,587	0.006	22	191
Ericsson AIR 21, 1.3M, B2A B4P (91.5 lbs)	225.00	275	171,360	0.007	27	236
Ericsson AIR 21, 1.3M, B4A B2P (90.4 lbs)	225.00	271	169,300	0.007	27	233
Round Sector Frames	225.00	900	561,838	0.023	89	774
RFS APXVAARR24_43-U-NA20	225.00	384	239,530	0.010	38	330
Sinclair SC479-HF1LDF(E5765)	207.00	34	19,223	0.001	3	29
Bird 432E-831-01-T	200.00	25	13,568	0.001	2	21
Flat Side Arm	200.00	450	244,225	0.010	39	387
Sinclair SC479-HF1LDF(E5765)	192.00	68	35,157	0.001	6	58
Powerwave Allgon LGP21901	175.00	33	15,282	0.001	2	28
Powerwave Allgon 7020	175.00	7	3,056	0.000	0	6
Raycap DC6-48-60-18-8F (23.5" Height)	175.00	20	9,262	0.000	1	17
Raycap DC6-48-60-18-8F ("Squid")	175.00	32	14,726	0.001	2	27
Ericsson RRUS 8843 B2, B66A	175.00	216	100,026	0.004	16	186
Powerwave Allgon LGP17201	175.00	186	86,134	0.004	14	160
Ericsson RRUS 4478 B14	175.00	180	83,216	0.003	13	155
Ericsson RRUS 4449 B5, B12	175.00	213	98,637	0.004	16	183
Allgon 7770.00	175.00	105	48,624	0.002	8	90
CCI DMP65R-BU8D	175.00	287	132,951	0.006	21	247
CCI OPA65R-BU8D	175.00	229	106,278	0.004	17	197
Generic Heavy Sector Frame	175.00	1,500	694,625	0.029	111	1,290
Flat Light Sector Frame	158.00	1,200	492,150	0.021	78	1,032
Kathrein Scala 860 10025	155.00	7	2,886	0.000	0	6
Kathrein Scala 800 10504	155.00	106	42,334	0.002	7	91
Generic 24" x 24" Ice Shield	96.00	50	11,343	0.000	2	43
Generic 6' Dish w/ Radome	89.00	250	51,835	0.002	8	215
RFS PA6-65AC w/ Radome	83.00	308	58,778	0.002	9	265
		90,966	23,957,059	1.000	3,812	78,221



Site Number: 6260

Code: ANSI/TIA-222-H

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 13151947\_C3\_09

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Customer: AT&T MOBILITY

### Force/Stress Summary

Section: 1		Base	Bot Elev (ft): 0.00				Height (ft): 20.000						Shear	Bear		
		Pu	Len	Bracing %			F'y	Phic Pn	Num	Num	phiRnv	phiRn	Use			
Max Compression Member		(kip) Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls	
LEG	SOL - 5 3/4" SOLID	-480.98	20.03	25	25	25	41.8	50.0	1,028.3	0	0	0.00	0.00	46	Member X	
HORIZ		0.00	0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0		
DIAG	DAE - 3X3X0.25	-17.99	33.60	25	49	13	167.5	36.0	29.39	4	2	55.22	69.60	61	Member Y	

Max Tension Member		Pu	Fy	Fu	Phit Pn	Num	Num	Shear	Bear	Blk Shear	Use		
		(kip) Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	phit Pn	%	Controls	
LEG	SOL - 5 3/4" SOLID	400.29	50	65	1,168.5	0	0	0.00	0.00		34	Member	
HORIZ		0.00	0	0	0.00	0	0	0.00	0.00	0.00	0		
DIAG	DAE - 3X3X0.25	17.10	36	58	82.75	4	2	55.22	55.68	41.05	41	Blk Shear	

Max Splice Forces		Pu	phiRnt	Use	Num		
		(kip) Load Case	(kip)	%	Bolts	Bolt Type	
Top Tension		381.20	0.00	0	0		
Top Compression		461.19	0.00	0			
Bot Tension		419.09	1287.77	11	6	2.75" A36	
Bot Compression		501.62	1065.74	50	6	2.75" A36	

Section: 2		1	Bot Elev (ft): 20.00				Height (ft): 20.000						Shear	Bear		
		Pu	Len	Bracing %			F'y	Phic Pn	Num	Num	phiRnv	phiRn	Use			
Max Compression Member		(kip) Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls	
LEG	SOL - 5 1/2" SOLID	-438.91	20.03	25	25	25	43.7	50.0	929.73	0	0	0.00	0.00	47	Member X	
HORIZ		0.00	0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0		
DIAG	DAE - 3X3X0.25	-18.41	32.02	25	50	13	161.9	36.0	31.43	4	2	55.22	69.60	58	Member Y	

Max Tension Member		Pu	Fy	Fu	Phit Pn	Num	Num	Shear	Bear	Blk Shear	Use		
		(kip) Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	phit Pn	%	Controls	
LEG	SOL - 5 1/2" SOLID	364.10	50	65	1,069.1	0	0	0.00	0.00		34	Member	
HORIZ		0.00	0	0	0.00	0	0	0.00	0.00	0.00	0		
DIAG	DAE - 3X3X0.25	18.31	36	58	82.75	4	2	55.22	55.68	41.05	44	Blk Shear	

Max Splice Forces		Pu	phiRnt	Use	Num		
		(kip) Load Case	(kip)	%	Bolts	Bolt Type	
Top Tension		343.57	0.00	0	0		
Top Compression		417.59	0.00	0			
Bot Tension		381.20	1349.04	28	6	2" A325	
Bot Compression		0.00	0.00	0			

Site Number: 6260

Code: ANSI/TIA-222-H

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 13151947\_C3\_09

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Customer: AT&T MOBILITY

### Force/Stress Summary

Section: 3		2		Bot Elev (ft): 40.00				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SOL - 5 1/4" SOLID	-392.16	1.2D + 1.0W Normal	20.03	25	25	25	45.8	50.0	835.70	0	0	0.00	0.00	46 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	DAE - 3X3X0.25	-18.69	1.2D + 1.0W 90 deg	30.48	25	50	13	154.2	36.0	34.68	4	2	55.22	69.60	53 Member Y

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SOL - 5 1/4" SOLID	327.26	0.9D + 1.0W 60 deg	50	65	974.16	0	0	0.00	0.00			33 Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00		0
DIAG	DAE - 3X3X0.25	17.91	1.2D + 1.0W 90 deg	36	58	82.75	4	2	55.22	55.68	41.05		43 Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		305.71	0.9D + 1.0W 60 deg	0.00	0	0	
Top Compression		369.96	1.2D + 1.0W Normal	0.00	0		
Bot Tension		343.57	0.9D + 1.0W 60 deg	1349.04	25	6	2" A325
Bot Compression		0.00		0.00	0		

Section: 4		3		Bot Elev (ft): 60.00				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SOL - 5" SOLID	-343.54	1.2D + 1.0W Normal	20.03	25	25	25	48.1	50.0	746.17	0	0	0.00	0.00	46 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	DAE - 3X3X0.1875	-18.16	1.2D + 1.0W 90 deg	29.00	25	49	13	145.0	36.0	29.66	4	2	55.22	52.20	61 Member Y

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SOL - 5" SOLID	288.09	0.9D + 1.0W 60 deg	50	65	883.58	0	0	0.00	0.00			32 Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00		0
DIAG	DAE - 3X3X0.1875	17.72	1.2D + 1.0W 90 deg	36	58	62.71	4	2	55.22	41.76	30.79		57 Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		266.49	0.9D + 1.0W 60 deg	0.00	0	0	
Top Compression		321.42	1.2D + 1.0W Normal	0.00	0		
Bot Tension		305.71	0.9D + 1.0W 60 deg	663.98	46	6	1.5" A325
Bot Compression		0.00		0.00	0		

Site Number: 6260

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 13151947\_C3\_09

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Customer: AT&T MOBILITY

### Force/Stress Summary

Section: 5		4		Bot Elev (ft): 80.00				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SOL - 4 3/4" SOLID	-296.08	1.2D + 1.0W Normal	20.03	25	25	25	50.6	50.0	661.25	0	0	0.00	0.00	44 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	DAE - 3X3X0.1875	-16.95	1.2D + 1.0W 90 deg	27.59	25	50	13	140.0	36.0	31.82	4	2	55.22	52.20	53 Member Y

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SOL - 4 3/4" SOLID	248.96	0.9D + 1.0W 60 deg	50	65	797.45	0	0	0.00	0.00			31 Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00		0
DIAG	DAE - 3X3X0.1875	16.62	1.2D + 1.0W 90 deg	36	58	62.71	4	2	55.22	41.76	30.79		53 Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		227.69	0.9D + 1.0W 60 deg	0.00	0	0	
Top Compression		273.97	1.2D + 1.0W Normal	0.00	0		
Bot Tension		266.49	0.9D + 1.0W 60 deg	663.98	40	6	1.5" A325
Bot Compression		0.00		0.00	0		

Section: 6		5		Bot Elev (ft): 100.0				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SOL - 4 1/2" SOLID	-248.27	1.2D + 1.0W Normal	20.03	25	25	25	53.4	50.0	580.89	0	0	0.00	0.00	42 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	DAE - 3X3X0.1875	-16.54	1.2D + 1.0W 90 deg	26.25	25	50	13	133.2	36.0	35.15	4	2	55.22	52.20	47 Member Y

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SOL - 4 1/2" SOLID	209.08	0.9D + 1.0W 60 deg	50	65	715.68	0	0	0.00	0.00			29 Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00		0
DIAG	DAE - 3X3X0.1875	15.87	1.2D + 1.0W 90 deg	36	58	62.71	4	2	55.22	41.76	30.79		51 Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		187.77	0.9D + 1.0W 60 deg	0.00	0	0	
Top Compression		226.72	1.2D + 1.0W Normal	0.00	0		
Bot Tension		227.69	0.9D + 1.0W 60 deg	663.98	34	6	1.5" A325
Bot Compression		0.00		0.00	0		

Site Number: 6260

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### Force/Stress Summary

Section: 7		6		Bot Elev (ft): 120.0				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SOL - 4 1/4" SOLID	-213.88	1.2D + 1.0W Normal	10.02	50	50	50	56.6	50.0	505.21	0	0	0.00	0.00	42 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	DAE - 2.5X2.5X0.1875	-10.81	1.2D + 1.0W 90 deg	18.44	50	50	25	145.9	36.0	24.19	4	2	55.22	52.20	44 Member Y

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SOL - 4 1/4" SOLID	180.32	0.9D + 1.0W 60 deg	50	65	638.37	0	0	0.00	0.00			28 Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00		0
DIAG	DAE - 2.5X2.5X0.1875	10.88	1.2D + 1.0W 90 deg	36	58	50.31	4	2	55.22	41.76	28.75		37 Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		150.59	0.9D + 1.0W 60 deg	0.00	0	0	
Top Compression		180.47	1.2D + 1.0W Normal	0.00	0		
Bot Tension		187.77	0.9D + 1.0W 60 deg	623.64	30	6	1.375" A325
Bot Compression		0.00		0.00	0		

Section: 8		7		Bot Elev (ft): 140.0				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SOL - 4" SOLID	-168.90	1.2D + 1.0W Normal	10.02	50	50	50	60.1	50.0	434.22	0	0	0.00	0.00	38 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	DAE - 2.5X2.5X0.1875	-9.90	1.2D + 1.0W 90 deg	16.80	50	50	25	132.9	36.0	29.16	4	2	55.22	52.20	33 Member Y

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SOL - 4" SOLID	141.84	0.9D + 1.0W 60 deg	50	65	565.47	0	0	0.00	0.00			25 Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00		0
DIAG	DAE - 2.5X2.5X0.1875	9.88	1.2D + 1.0W 90 deg	36	58	50.31	4	2	55.22	41.76	28.75		34 Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		112.28	0.9D + 1.0W 60 deg	0.00	0	0	
Top Compression		135.76	1.2D + 1.0W Normal	0.00	0		
Bot Tension		150.59	0.9D + 1.0W 60 deg	523.32	29	6	1.25" A325
Bot Compression		0.00		0.00	0		

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### Force/Stress Summary

Section: 9		8		Bot Elev (ft): 160.0				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SOL - 3 3/4" SOLID	-123.95	1.2D + 1.0W Normal	10.02	50	50	50	64.1	50.0	368.03	0	0	0.00	0.00	33 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 3.5X3.5X0.25	-8.65	1.2D + 1.0W 90 deg	15.24	50	50	50	132.9	36.0	27.37	2	1	27.61	34.80	31 Member Z

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SOL - 3 3/4" SOLID	101.89	1.2D + 1.0W 60 deg	50	65	497.02	0	0	0.00	0.00		20	Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00	0	
DIAG	SAE - 3.5X3.5X0.25	8.56	1.2D + 1.0W 90 deg	36	58	49.53	2	1	27.61	27.84	23.25	36	Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		81.01	0.9D + 1.0W 60 deg	0.00	0	0	
Top Compression		96.13	1.2D + 1.0W Normal	0.00	0		
Bot Tension		112.28	0.9D + 1.0W 60 deg	412.17	27	6	1 1/8 A325
Bot Compression		0.00		0.00	0		

Section: 10		10		Bot Elev (ft): 180.0				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SOL - 3 3/4" SOLID	-90.60	1.2D + 1.0W Normal	6.68	100	100	100	85.5	50.0	291.33	0	0	0.00	0.00	31 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 3X3X0.1875	-4.84	1.2D + 1.0W 90 deg	11.74	50	50	50	118.7	36.0	21.86	2	1	27.61	26.10	22 Member Z

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SOL - 3 3/4" SOLID	76.15	1.2D + 1.0W 60 deg	50	65	497.02	0	0	0.00	0.00		15	Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00	0	
DIAG	SAE - 3X3X0.1875	4.83	1.2D + 1.0W 90 deg	36	58	31.36	2	1	27.61	20.88	15.39	31	Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		54.22	0.9D + 1.0W 60 deg	0.00	0	0	
Top Compression		64.38	1.2D + 1.0W Normal	0.00	0		
Bot Tension		81.01	0.9D + 1.0W 60 deg	412.17	20	6	1 1/8 A325
Bot Compression		0.00		0.00	0		

Site Number: 6260

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### Force/Stress Summary

Section: 11		11		Bot Elev (ft): 200.0				Height (ft): 20.000								
		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic (kip)	Pn Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phiT Pn (kip)	Use %	Controls
<b>Max Compression Member</b>																
LEG	SOL - 3 1/4" SOLID	-59.04	1.2D + 1.0W Normal	6.68	100	100	100	98.6	50.0	183.32	0	0	0.00	0.00	32 Member X	
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	SAE - 2.5X2.5X0.1875	-4.08	1.2D + 1.0W 90 deg	10.16	50	50	50	123.2	36.0	16.98	2	1	27.61	26.10	24 Member Z	
<b>Max Tension Member</b>																
LEG	SOL - 3 1/4" SOLID	49.49	1.2D + 1.0W 60 deg	50	65	373.32	0	0	0.00	0.00	0	0			13 Member	
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0	0	0.00	0.00	0	
DIAG	SAE - 2.5X2.5X0.1875	4.02	1.2D + 1.0W 90 deg	36	58	25.22	2	1	27.61	20.88	2	1	14.38	27	Blk Shear	
<b>Max Splice Forces</b>																
		Pu (kip)	Load Case			phiRnt (kip)	Use %	Num Bolts	Bolt Type							
	Top Tension	27.59	0.9D + 1.0W 60 deg			0.00	0	0								
	Top Compression	33.95	1.2D + 1.0W Normal			0.00	0									
	Bot Tension	54.22	0.9D + 1.0W 60 deg			327.10	17	6	1 A325							
	Bot Compression	0.00				0.00	0									

Section: 12		12		Bot Elev (ft): 220.0				Height (ft): 20.000								
		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic (kip)	Pn Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phiT Pn (kip)	Use %	Controls
<b>Max Compression Member</b>																
LEG	SOL - 2 1/4" SOLID	-29.63	1.2D + 1.0W Normal	5.01	100	100	100	106.8	50.0	77.66	0	0	0.00	0.00	38 Member X	
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	SAE - 1.75X1.75X0.18	-3.24	1.2D + 1.0W 90 deg	7.621	50	50	50	133.3	36.0	10.00	2	1	17.67	20.88	32 Member Z	
<b>Max Tension Member</b>																
LEG	SOL - 2 1/4" SOLID	23.55	1.2D + 1.0W 60 deg	50	65	178.92	0	0	0.00	0.00	0	0			13 Member	
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0	0	0.00	0.00	0	
DIAG	SAE - 1.75X1.75X0.18	3.20	1.2D + 1.0W 90 deg	36	58	16.82	2	1	17.67	16.64	2	1	9.99	32	Blk Shear	
<b>Max Splice Forces</b>																
		Pu (kip)	Load Case			phiRnt (kip)	Use %	Num Bolts	Bolt Type							
	Top Tension	6.41	0.9D + 1.0W 60 deg			0.00	0	0								
	Top Compression	8.94	1.2D + 1.0W Normal			0.00	0									
	Bot Tension	27.59	0.9D + 1.0W 60 deg			122.04	23	6	5/8 A325							
	Bot Compression	0.00				0.00	0									

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### Force/Stress Summary

Section: 13		13		Bot Elev (ft): 240.0				Height (ft): 10.000				Shear		Bear		Use	
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic (kip)	Pn (Bolts)	Num (Holes)	phiRnv (kip)	phiRn (kip)	Use %	Controls		
LEG	SOL - 2" SOLID	-5.45	1.2D + 1.0W Normal	5.00	100	100	100	120.0	50.0	49.29	0	0	0.00	0.00	11	Member X	
HORIZ	SAE - 2X2X0.1875	-0.19	1.2D + 1.0W Normal	4.000	100	100	100	121.8	36.0	13.73	1	1	13.81	13.05	1	Bolt Bear	
DIAG	SAE - 1.75X1.75X0.18	-2.28	1.2D + 1.0W 90 deg	6.403	50	50	50	114.0	36.0	13.22	2	1	17.67	20.88	17	Member Z	

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit (kip)	Pn (Bolts)	Num (Holes)	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls	
LEG	SOL - 2" SOLID	3.17	1.2D + 1.0W 60 deg	50	65	141.37	0	0	0.00	0.00			2	Member
HORIZ	SAE - 2X2X0.1875	0.16	1.2D + 1.0W 60 deg	36	58	19.12	1	1	13.81	7.83	6.83		2	Blk Shear
DIAG	SAE - 1.75X1.75X0.18	2.19	1.2D + 1.0W 90 deg	36	58	16.82	2	1	17.67	16.64	9.99		21	Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		0.00		0.00	0	0	
Top Compression		0.60	1.2D + 1.0Ev + 1.0Eh	0.00	0		
Bot Tension		6.41	0.9D + 1.0W 60 deg	81.36	8	4	5/8 A325
Bot Compression		0.00		0.00	0		

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### Detailed Reactions

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	FX (kip)	FY (kip)	FZ (kip)	(-) = Uplift (+) = Down
<b>1.2D + 1.0W Normal</b>	16.17	00.00	0	1	0.00	501.73	-51.20	
	16.17	00.00	120	1a	16.50	-196.28	-17.21	
	16.17	00.00	240	1b	-16.50	-196.28	-17.21	
<b>1.2D + 1.0W 60 deg</b>	16.17	00.00	0	1	-6.55	258.07	-25.03	
	16.17	00.00	120	1a	-24.95	258.01	6.84	
	16.17	00.00	240	1b	-38.71	-406.93	-22.35	
<b>1.2D + 1.0W 90 deg</b>	16.17	00.00	0	1	-7.53	36.39	-1.64	
	16.17	00.00	120	1a	-39.06	425.04	18.04	
	16.17	00.00	240	1b	-35.65	-352.28	-16.40	
<b>0.9D + 1.0W Normal</b>	16.17	00.00	0	1	0.00	492.21	-50.73	
	16.17	00.00	120	1a	16.94	-205.17	-17.48	
	16.17	00.00	240	1b	-16.94	-205.17	-17.48	
<b>0.9D + 1.0W 60 deg</b>	16.17	00.00	0	1	-6.54	248.76	-24.54	
	16.17	00.00	120	1a	-24.52	248.70	6.60	
	16.17	00.00	240	1b	-39.15	-415.59	-22.60	
<b>0.9D + 1.0W 90 deg</b>	16.17	00.00	0	1	-7.52	27.29	-1.14	
	16.17	00.00	120	1a	-38.62	415.57	17.80	
	16.17	00.00	240	1b	-36.09	-361.00	-16.66	
<b>1.2D + 1.0Di + 1.0Wi Normal</b>	16.17	00.00	0	1	0.00	192.49	-17.19	
	16.17	00.00	120	1a	2.95	-8.89	-4.00	
	16.17	00.00	240	1b	-2.95	-8.89	-4.00	
<b>1.2D + 1.0Di + 1.0Wi 60 deg</b>	16.17	00.00	0	1	-1.95	123.69	-9.73	
	16.17	00.00	120	1a	-9.40	123.68	3.18	
	16.17	00.00	240	1b	-9.86	-72.66	-5.69	
<b>1.2D + 1.0Di + 1.0Wi 90 deg</b>	16.17	00.00	0	1	-2.26	58.24	-2.68	
	16.17	00.00	120	1a	-13.56	172.44	6.51	
	16.17	00.00	240	1b	-8.87	-55.97	-3.83	
<b>1.2D + 1.0Ev + 1.0Eh Normal M1</b>	16.17	00.00	0	1	0.00	60.72	-4.36	
	16.17	00.00	120	1a	-0.94	22.68	0.29	
	16.17	00.00	240	1b	0.94	22.68	0.29	
<b>1.2D + 1.0Ev + 1.0Eh 60 deg M1</b>	16.17	00.00	0	1	-0.22	48.04	-3.23	
	16.17	00.00	120	1a	-2.90	48.04	1.42	
	16.17	00.00	240	1b	-0.15	10.00	-0.09	
<b>1.2D + 1.0Ev + 1.0Eh 90 deg M1</b>	16.17	00.00	0	1	-0.25	35.36	-2.09	
	16.17	00.00	120	1a	-3.58	57.32	1.92	
	16.17	00.00	240	1b	0.05	13.40	0.18	
<b>0.9D - 1.0Ev + 1.0Eh Normal M1</b>	16.17	00.00	0	1	0.00	49.85	-3.72	
	16.17	00.00	120	1a	-0.39	11.86	-0.03	
	16.17	00.00	240	1b	0.39	11.86	-0.03	
<b>0.9D - 1.0Ev + 1.0Eh 60 deg M1</b>	16.17	00.00	0	1	-0.22	37.18	-2.59	
	16.17	00.00	120	1a	-2.35	37.18	1.10	
	16.17	00.00	240	1b	-0.70	-0.81	-0.41	
<b>0.9D - 1.0Ev + 1.0Eh 90 deg M1</b>	16.17	00.00	0	1	-0.25	24.52	-1.45	
	16.17	00.00	120	1a	-3.02	46.45	1.60	



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	<b>16.17</b>	<b>00.00</b>	<b>240</b>	<b>1b</b>	<b>-0.50</b>	<b>2.59</b>	<b>-0.15</b>
<b>1.0D + 1.0W Service Normal</b>	<b>16.17</b>	<b>00.00</b>	<b>0</b>	<b>1</b>	<b>0.00</b>	<b>133.05</b>	<b>-12.58</b>
	<b>16.17</b>	<b>00.00</b>	<b>120</b>	<b>1a</b>	<b>2.53</b>	<b>-21.04</b>	<b>-3.19</b>
	<b>16.17</b>	<b>00.00</b>	<b>240</b>	<b>1b</b>	<b>-2.53</b>	<b>-21.04</b>	<b>-3.19</b>
<b>1.0D + 1.0W Service 60 deg</b>	<b>16.17</b>	<b>00.00</b>	<b>0</b>	<b>1</b>	<b>-1.42</b>	<b>79.24</b>	<b>-6.83</b>
	<b>16.17</b>	<b>00.00</b>	<b>120</b>	<b>1a</b>	<b>-6.62</b>	<b>79.22</b>	<b>2.18</b>
	<b>16.17</b>	<b>00.00</b>	<b>240</b>	<b>1b</b>	<b>-7.49</b>	<b>-67.50</b>	<b>-4.32</b>
<b>1.0D + 1.0W Service 90 deg</b>	<b>16.17</b>	<b>00.00</b>	<b>0</b>	<b>1</b>	<b>-1.66</b>	<b>30.32</b>	<b>-1.66</b>
	<b>16.17</b>	<b>00.00</b>	<b>120</b>	<b>1a</b>	<b>-9.72</b>	<b>116.09</b>	<b>4.65</b>
	<b>16.17</b>	<b>00.00</b>	<b>240</b>	<b>1b</b>	<b>-6.81</b>	<b>-55.45</b>	<b>-2.98</b>

Max Uplift:	415.59(kip)	Moment Ice:	3,255.45 (kip-ft)	Moment:	11,283.94 (kip-ft)	1.2D + 1.0W Normal
Max Down:	501.73(kip)	Total Down Ice:	174.71 (kip)	Total Down:	109.16 (kip)	
Max Shear:	51.20(kip)	Total Shear Ice:	25.19 (kip)	Total Shear:	85.63 (kip)	

### Deflections and Rotations

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
127 mph Normal with No Ice	80.00	0.163	0.0009	0.2204	0.2204
127 mph Normal with No Ice	100.00	0.250	0.0040	0.2689	0.2689
127 mph Normal with No Ice	150.00	0.539	0.0147	0.4153	0.4156
127 mph Normal with No Ice	160.00	0.612	0.0139	0.4265	0.4267
127 mph Normal with No Ice	170.00	0.689	0.0122	0.4563	0.4564
127 mph Normal with No Ice	193.33	0.887	0.0091	0.5150	0.5150
127 mph Normal with No Ice	200.00	0.948	0.0082	0.5307	0.5308
127 mph Normal with No Ice	206.67	1.011	0.0074	0.5495	0.5496
127 mph Normal with No Ice	225.00	1.194	0.0068	0.5997	0.5998
127 mph Normal with No Ice	235.00	1.300	0.0093	0.6259	0.6260
127 mph Normal with No Ice	245.00	1.410	0.0104	0.6392	0.6393
127 mph Normal with No Ice	250.00	1.465	0.0099	0.6292	0.6292
127 mph 60 degree with No Ice	80.00	0.155	-0.0188	0.2108	0.2112
127 mph 60 degree with No Ice	100.00	0.238	-0.0236	0.2559	0.2565
127 mph 60 degree with No Ice	150.00	0.516	-0.0425	0.3801	0.3816
127 mph 60 degree with No Ice	160.00	0.586	-0.0433	0.4135	0.4147
127 mph 60 degree with No Ice	170.00	0.660	-0.0426	0.4356	0.4368
127 mph 60 degree with No Ice	193.33	0.850	-0.0419	0.4948	0.4957
127 mph 60 degree with No Ice	200.00	0.908	-0.0417	0.5085	0.5092
127 mph 60 degree with No Ice	206.67	0.969	-0.0408	0.5271	0.5278
127 mph 60 degree with No Ice	225.00	1.145	-0.0345	0.5757	0.5760
127 mph 60 degree with No Ice	235.00	1.247	-0.0255	0.6018	0.6019
127 mph 60 degree with No Ice	245.00	1.353	-0.0199	0.6167	0.6170
127 mph 60 degree with No Ice	250.00	1.406	-0.0197	0.6080	0.6083
127 mph 90 degree with No Ice	80.00	0.157	-0.0232	0.2143	0.2155
127 mph 90 degree with No Ice	100.00	0.239	-0.0294	0.2565	0.2569
127 mph 90 degree with No Ice	150.00	0.521	-0.0534	0.3776	0.3789
127 mph 90 degree with No Ice	160.00	0.592	-0.0543	0.4185	0.4209
127 mph 90 degree with No Ice	170.00	0.667	-0.0534	0.4389	0.4397
127 mph 90 degree with No Ice	193.33	0.859	-0.0523	0.4986	0.4993
127 mph 90 degree with No Ice	200.00	0.918	-0.0520	0.5125	0.5150
127 mph 90 degree with No Ice	206.67	0.979	-0.0509	0.5319	0.5329
127 mph 90 degree with No Ice	225.00	1.157	-0.0433	0.5805	0.5821
127 mph 90 degree with No Ice	235.00	1.260	-0.0328	0.6078	0.6087
127 mph 90 degree with No Ice	245.00	1.367	-0.0261	0.6253	0.6259
127 mph 90 degree with No Ice	250.00	1.420	-0.0256	0.6082	0.6083
127 mph Normal with No Ice (Reduced DL)	80.00	0.163	0.0010	0.2200	0.2200
127 mph Normal with No Ice (Reduced DL)	100.00	0.250	0.0040	0.2683	0.2683
127 mph Normal with No Ice (Reduced DL)	150.00	0.539	0.0147	0.4147	0.4150
127 mph Normal with No Ice (Reduced DL)	160.00	0.612	0.0139	0.4259	0.4261
127 mph Normal with No Ice (Reduced DL)	170.00	0.689	0.0122	0.4555	0.4557
127 mph Normal with No Ice (Reduced DL)	193.33	0.886	0.0091	0.5142	0.5142
127 mph Normal with No Ice (Reduced DL)	200.00	0.947	0.0083	0.5298	0.5299
127 mph Normal with No Ice (Reduced DL)	206.67	1.010	0.0075	0.5486	0.5487
127 mph Normal with No Ice (Reduced DL)	225.00	1.192	0.0068	0.5986	0.5986
127 mph Normal with No Ice (Reduced DL)	235.00	1.298	0.0093	0.6248	0.6248
127 mph Normal with No Ice (Reduced DL)	245.00	1.408	0.0104	0.6381	0.6382
127 mph Normal with No Ice (Reduced DL)	250.00	1.463	0.0099	0.6284	0.6284
127 mph 60 deg with No Ice (Reduced DL)	80.00	0.155	-0.0188	0.2106	0.2109
127 mph 60 deg with No Ice (Reduced DL)	100.00	0.238	-0.0236	0.2558	0.2563
127 mph 60 deg with No Ice (Reduced DL)	150.00	0.515	-0.0425	0.3794	0.3809
127 mph 60 deg with No Ice (Reduced DL)	160.00	0.585	-0.0433	0.4128	0.4140
127 mph 60 deg with No Ice (Reduced DL)	170.00	0.659	-0.0426	0.4348	0.4361
127 mph 60 deg with No Ice (Reduced DL)	193.33	0.849	-0.0419	0.4940	0.4949
127 mph 60 deg with No Ice (Reduced DL)	200.00	0.907	-0.0417	0.5077	0.5084

Site Number: 6260

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127 mph 60 deg with No Ice (Reduced DL)	206.67	0.968	-0.0408	0.5263	0.5270
127 mph 60 deg with No Ice (Reduced DL)	225.00	1.143	-0.0345	0.5748	0.5751
127 mph 60 deg with No Ice (Reduced DL)	235.00	1.245	-0.0255	0.6008	0.6009
127 mph 60 deg with No Ice (Reduced DL)	245.00	1.351	-0.0200	0.6156	0.6159
127 mph 60 deg with No Ice (Reduced DL)	250.00	1.404	-0.0198	0.6067	0.6070
127 mph 90 deg with No Ice (Reduced DL)	80.00	0.157	-0.0232	0.2140	0.2152
127 mph 90 deg with No Ice (Reduced DL)	100.00	0.238	-0.0294	0.2559	0.2564
127 mph 90 deg with No Ice (Reduced DL)	150.00	0.521	-0.0534	0.3769	0.3784
127 mph 90 deg with No Ice (Reduced DL)	160.00	0.591	-0.0543	0.4178	0.4203
127 mph 90 deg with No Ice (Reduced DL)	170.00	0.666	-0.0534	0.4382	0.4391
127 mph 90 deg with No Ice (Reduced DL)	193.33	0.858	-0.0523	0.4978	0.4985
127 mph 90 deg with No Ice (Reduced DL)	200.00	0.917	-0.0520	0.5116	0.5141
127 mph 90 deg with No Ice (Reduced DL)	206.67	0.977	-0.0509	0.5310	0.5321
127 mph 90 deg with No Ice (Reduced DL)	225.00	1.155	-0.0433	0.5795	0.5811
127 mph 90 deg with No Ice (Reduced DL)	235.00	1.258	-0.0328	0.6067	0.6076
127 mph 90 deg with No Ice (Reduced DL)	245.00	1.365	-0.0262	0.6242	0.6248
127 mph 90 deg with No Ice (Reduced DL)	250.00	1.418	-0.0257	0.6069	0.6071
50 mph Normal with 0.75 in Radial Ice	80.00	0.047	0.0009	0.0654	0.0654
50 mph Normal with 0.75 in Radial Ice	100.00	0.071	0.0005	0.0756	0.0756
50 mph Normal with 0.75 in Radial Ice	150.00	0.154	0.0010	0.1163	0.1163
50 mph Normal with 0.75 in Radial Ice	160.00	0.174	0.0008	0.1209	0.1209
50 mph Normal with 0.75 in Radial Ice	170.00	0.196	0.0003	0.1271	0.1271
50 mph Normal with 0.75 in Radial Ice	193.33	0.251	0.0006	0.1430	0.1430
50 mph Normal with 0.75 in Radial Ice	200.00	0.268	0.0008	0.1467	0.1467
50 mph Normal with 0.75 in Radial Ice	206.67	0.285	0.0010	0.1514	0.1514
50 mph Normal with 0.75 in Radial Ice	225.00	0.335	0.0012	0.1637	0.1637
50 mph Normal with 0.75 in Radial Ice	235.00	0.363	0.0008	0.1697	0.1697
50 mph Normal with 0.75 in Radial Ice	245.00	0.393	0.0005	0.1723	0.1723
50 mph Normal with 0.75 in Radial Ice	250.00	0.408	0.0006	0.1689	0.1689
50 mph 60 deg with 0.75 in Radial Ice	80.00	0.046	-0.0048	0.0638	0.0639
50 mph 60 deg with 0.75 in Radial Ice	100.00	0.072	-0.0059	0.0765	0.0765
50 mph 60 deg with 0.75 in Radial Ice	150.00	0.152	-0.0102	0.1110	0.1112
50 mph 60 deg with 0.75 in Radial Ice	160.00	0.171	-0.0104	0.1180	0.1182
50 mph 60 deg with 0.75 in Radial Ice	170.00	0.192	-0.0103	0.1244	0.1246
50 mph 60 deg with 0.75 in Radial Ice	193.33	0.245	-0.0102	0.1390	0.1391
50 mph 60 deg with 0.75 in Radial Ice	200.00	0.262	-0.0102	0.1439	0.1440
50 mph 60 deg with 0.75 in Radial Ice	206.67	0.278	-0.0100	0.1476	0.1477
50 mph 60 deg with 0.75 in Radial Ice	225.00	0.327	-0.0086	0.1605	0.1605
50 mph 60 deg with 0.75 in Radial Ice	235.00	0.355	-0.0066	0.1654	0.1654
50 mph 60 deg with 0.75 in Radial Ice	245.00	0.384	-0.0054	0.1687	0.1688
50 mph 60 deg with 0.75 in Radial Ice	250.00	0.399	-0.0052	0.1682	0.1682
50 mph 90 deg with 0.75 in Radial Ice	80.00	0.047	-0.0057	0.0644	0.0645
50 mph 90 deg with 0.75 in Radial Ice	100.00	0.072	-0.0071	0.0761	0.0762
50 mph 90 deg with 0.75 in Radial Ice	150.00	0.153	-0.0122	0.1103	0.1105
50 mph 90 deg with 0.75 in Radial Ice	160.00	0.172	-0.0125	0.1200	0.1202
50 mph 90 deg with 0.75 in Radial Ice	170.00	0.193	-0.0124	0.1250	0.1251
50 mph 90 deg with 0.75 in Radial Ice	193.33	0.247	-0.0123	0.1405	0.1406
50 mph 90 deg with 0.75 in Radial Ice	200.00	0.264	-0.0123	0.1447	0.1449
50 mph 90 deg with 0.75 in Radial Ice	206.67	0.280	-0.0121	0.1489	0.1490
50 mph 90 deg with 0.75 in Radial Ice	225.00	0.330	-0.0105	0.1615	0.1616
50 mph 90 deg with 0.75 in Radial Ice	235.00	0.358	-0.0084	0.1668	0.1670
50 mph 90 deg with 0.75 in Radial Ice	245.00	0.387	-0.0070	0.1706	0.1707
50 mph 90 deg with 0.75 in Radial Ice	250.00	0.402	-0.0068	0.1683	0.1684
Seismic Normal M1	80.00	0.009	0.0006	0.0129	0.0129
Seismic Normal M1	100.00	0.015	0.0007	0.0167	0.0167
Seismic Normal M1	150.00	0.032	0.0012	0.0256	0.0256
Seismic Normal M1	160.00	0.036	0.0012	0.0274	0.0274
Seismic Normal M1	170.00	0.041	0.0013	0.0294	0.0294
Seismic Normal M1	193.33	0.054	0.0015	0.0336	0.0336
Seismic Normal M1	200.00	0.058	0.0015	0.0347	0.0347
Seismic Normal M1	206.67	0.062	0.0016	0.0364	0.0364
Seismic Normal M1	225.00	0.074	0.0016	0.0408	0.0409

Site Number: 6260

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Seismic Normal M1	235.00	0.082	0.0015	0.0430	0.0430
Seismic Normal M1	245.00	0.089	0.0014	0.0447	0.0447
Seismic Normal M1	250.00	0.093	0.0014	0.0445	0.0445
Seismic 60 deg M1	80.00	0.009	0.0006	0.0129	0.0129
Seismic 60 deg M1	100.00	0.014	0.0007	0.0158	0.0158
Seismic 60 deg M1	150.00	0.032	0.0012	0.0255	0.0255
Seismic 60 deg M1	160.00	0.036	0.0012	0.0270	0.0270
Seismic 60 deg M1	170.00	0.041	0.0013	0.0293	0.0293
Seismic 60 deg M1	193.33	0.054	0.0015	0.0336	0.0336
Seismic 60 deg M1	200.00	0.058	0.0015	0.0349	0.0349
Seismic 60 deg M1	206.67	0.062	0.0016	0.0363	0.0363
Seismic 60 deg M1	225.00	0.074	0.0016	0.0410	0.0410
Seismic 60 deg M1	235.00	0.082	0.0015	0.0431	0.0431
Seismic 60 deg M1	245.00	0.089	-0.0014	0.0444	0.0444
Seismic 60 deg M1	250.00	0.093	-0.0014	0.0455	0.0455
Seismic 90 deg M1	80.00	0.009	-0.0007	0.0129	0.0129
Seismic 90 deg M1	100.00	0.014	-0.0008	0.0164	0.0164
Seismic 90 deg M1	150.00	0.032	-0.0014	0.0256	0.0256
Seismic 90 deg M1	160.00	0.036	-0.0014	0.0273	0.0273
Seismic 90 deg M1	170.00	0.041	-0.0015	0.0294	0.0294
Seismic 90 deg M1	193.33	0.054	-0.0017	0.0336	0.0336
Seismic 90 deg M1	200.00	0.058	-0.0018	0.0348	0.0348
Seismic 90 deg M1	206.67	0.062	-0.0018	0.0363	0.0364
Seismic 90 deg M1	225.00	0.074	-0.0019	0.0409	0.0409
Seismic 90 deg M1	235.00	0.082	-0.0018	0.0431	0.0431
Seismic 90 deg M1	245.00	0.089	-0.0016	0.0446	0.0446
Seismic 90 deg M1	250.00	0.093	-0.0016	0.0452	0.0452
Seismic (Reduced DL) Normal M1	80.00	0.009	0.0006	0.0127	0.0128
Seismic (Reduced DL) Normal M1	100.00	0.014	0.0007	0.0164	0.0164
Seismic (Reduced DL) Normal M1	150.00	0.032	0.0012	0.0255	0.0255
Seismic (Reduced DL) Normal M1	160.00	0.036	0.0012	0.0273	0.0273
Seismic (Reduced DL) Normal M1	170.00	0.041	0.0013	0.0293	0.0293
Seismic (Reduced DL) Normal M1	193.33	0.054	0.0015	0.0336	0.0336
Seismic (Reduced DL) Normal M1	200.00	0.058	0.0015	0.0346	0.0347
Seismic (Reduced DL) Normal M1	206.67	0.062	0.0016	0.0363	0.0363
Seismic (Reduced DL) Normal M1	225.00	0.074	0.0016	0.0407	0.0407
Seismic (Reduced DL) Normal M1	235.00	0.081	0.0015	0.0429	0.0429
Seismic (Reduced DL) Normal M1	245.00	0.089	0.0014	0.0444	0.0444
Seismic (Reduced DL) Normal M1	250.00	0.093	0.0014	0.0441	0.0442
Seismic (Reduced DL) 60 deg M1	80.00	0.009	0.0006	0.0127	0.0127
Seismic (Reduced DL) 60 deg M1	100.00	0.014	0.0007	0.0156	0.0157
Seismic (Reduced DL) 60 deg M1	150.00	0.031	0.0012	0.0253	0.0253
Seismic (Reduced DL) 60 deg M1	160.00	0.036	0.0012	0.0270	0.0270
Seismic (Reduced DL) 60 deg M1	170.00	0.041	0.0013	0.0292	0.0292
Seismic (Reduced DL) 60 deg M1	193.33	0.054	0.0015	0.0335	0.0335
Seismic (Reduced DL) 60 deg M1	200.00	0.058	0.0015	0.0347	0.0347
Seismic (Reduced DL) 60 deg M1	206.67	0.062	0.0016	0.0362	0.0362
Seismic (Reduced DL) 60 deg M1	225.00	0.074	0.0016	0.0407	0.0407
Seismic (Reduced DL) 60 deg M1	235.00	0.081	-0.0015	0.0430	0.0430
Seismic (Reduced DL) 60 deg M1	245.00	0.089	-0.0014	0.0442	0.0442
Seismic (Reduced DL) 60 deg M1	250.00	0.093	-0.0014	0.0448	0.0448
Seismic (Reduced DL) 90 deg M1	80.00	0.009	-0.0007	0.0127	0.0127
Seismic (Reduced DL) 90 deg M1	100.00	0.014	-0.0008	0.0162	0.0162
Seismic (Reduced DL) 90 deg M1	150.00	0.032	-0.0013	0.0254	0.0254
Seismic (Reduced DL) 90 deg M1	160.00	0.036	-0.0014	0.0272	0.0272
Seismic (Reduced DL) 90 deg M1	170.00	0.041	-0.0015	0.0292	0.0293
Seismic (Reduced DL) 90 deg M1	193.33	0.054	-0.0017	0.0335	0.0336
Seismic (Reduced DL) 90 deg M1	200.00	0.058	-0.0018	0.0347	0.0347
Seismic (Reduced DL) 90 deg M1	206.67	0.062	-0.0018	0.0362	0.0363
Seismic (Reduced DL) 90 deg M1	225.00	0.074	-0.0019	0.0407	0.0407
Seismic (Reduced DL) 90 deg M1	235.00	0.081	-0.0018	0.0429	0.0429
Seismic (Reduced DL) 90 deg M1	245.00	0.089	-0.0016	0.0443	0.0443

Site Number: 6260

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Seismic (Reduced DL) 90 deg M1	250.00	0.093	-0.0016	0.0446	0.0447
Serviceability - 60 mph Wind Normal	80.00	0.036	0.0000	0.0489	0.0489
Serviceability - 60 mph Wind Normal	100.00	0.056	0.0006	0.0599	0.0599
Serviceability - 60 mph Wind Normal	150.00	0.119	0.0026	0.0918	0.0919
Serviceability - 60 mph Wind Normal	160.00	0.135	0.0024	0.0943	0.0943
Serviceability - 60 mph Wind Normal	170.00	0.152	0.0019	0.1009	0.1009
Serviceability - 60 mph Wind Normal	193.33	0.196	0.0010	0.1140	0.1140
Serviceability - 60 mph Wind Normal	200.00	0.209	0.0008	0.1175	0.1175
Serviceability - 60 mph Wind Normal	206.67	0.224	0.0005	0.1215	0.1215
Serviceability - 60 mph Wind Normal	225.00	0.264	0.0002	0.1329	0.1329
Serviceability - 60 mph Wind Normal	235.00	0.287	0.0007	0.1386	0.1386
Serviceability - 60 mph Wind Normal	245.00	0.312	0.0009	0.1415	0.1415
Serviceability - 60 mph Wind Normal	250.00	0.324	0.0007	0.1386	0.1386
Serviceability - 60 mph Wind 60 deg	80.00	0.034	-0.0043	0.0461	0.0462
Serviceability - 60 mph Wind 60 deg	100.00	0.052	-0.0054	0.0558	0.0559
Serviceability - 60 mph Wind 60 deg	150.00	0.114	-0.0097	0.0840	0.0843
Serviceability - 60 mph Wind 60 deg	160.00	0.129	-0.0099	0.0912	0.0915
Serviceability - 60 mph Wind 60 deg	170.00	0.145	-0.0097	0.0963	0.0965
Serviceability - 60 mph Wind 60 deg	193.33	0.187	-0.0093	0.1093	0.1094
Serviceability - 60 mph Wind 60 deg	200.00	0.200	-0.0093	0.1124	0.1125
Serviceability - 60 mph Wind 60 deg	206.67	0.214	-0.0090	0.1165	0.1166
Serviceability - 60 mph Wind 60 deg	225.00	0.253	-0.0074	0.1275	0.1276
Serviceability - 60 mph Wind 60 deg	235.00	0.275	-0.0053	0.1329	0.1329
Serviceability - 60 mph Wind 60 deg	245.00	0.299	-0.0039	0.1363	0.1364
Serviceability - 60 mph Wind 60 deg	250.00	0.310	-0.0038	0.1349	0.1350
Serviceability - 60 mph Wind 90 deg	80.00	0.035	-0.0050	0.0472	0.0475
Serviceability - 60 mph Wind 90 deg	100.00	0.053	-0.0063	0.0571	0.0572
Serviceability - 60 mph Wind 90 deg	150.00	0.115	-0.0115	0.0835	0.0837
Serviceability - 60 mph Wind 90 deg	160.00	0.131	-0.0116	0.0925	0.0929
Serviceability - 60 mph Wind 90 deg	170.00	0.147	-0.0114	0.0970	0.0972
Serviceability - 60 mph Wind 90 deg	193.33	0.190	-0.0110	0.1103	0.1104
Serviceability - 60 mph Wind 90 deg	200.00	0.203	-0.0109	0.1135	0.1139
Serviceability - 60 mph Wind 90 deg	206.67	0.216	-0.0106	0.1177	0.1178
Serviceability - 60 mph Wind 90 deg	225.00	0.255	-0.0087	0.1287	0.1288
Serviceability - 60 mph Wind 90 deg	235.00	0.278	-0.0062	0.1345	0.1346
Serviceability - 60 mph Wind 90 deg	245.00	0.302	-0.0046	0.1383	0.1384
Serviceability - 60 mph Wind 90 deg	250.00	0.314	-0.0045	0.1349	0.1350

### Maximum Reactions Summary

Anchor Group	Vertical (kip)				Horizontal (kip)		Moment (kip-ft)	
	DL+WL	DL+WL+IL	UpLift	Shear	DL+WL	DL+WL+IL	DL+WL	DL+WL+IL
Base	109.16	174.71	501.73	51.20	85.63	25.19	11283.94	3255.45

**UPS CampusShip: View/Print Label**

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
3. **GETTING YOUR SHIPMENT TO UPS**  
**Customers with a Daily Pickup**  
Your driver will pickup your shipment(s) as usual.

**Customers without a Daily Pickup**

Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.

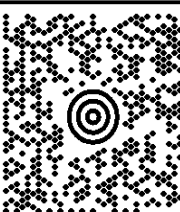
Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.  
Hand the package to any UPS driver in your area.

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SOUTH EASTON ,MA 02375

UPS Access Point™  
CVS STORE # 7232  
689 DEPOT ST  
NORTH EASTON ,MA 02356

UPS Access Point™  
TOWN LINE GENERAL STORE  
450 E CENTER ST  
WEST BRIDGEWATER ,MA 02379

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<p>PATRICIA NOWAK 508-265-5599 CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379</p> <p><b>SHIP TO:</b> MICHAEL A. URGO TOWN OF NORTH STONINGTON FIRST SELECTMAN'S OFFICE 40 MAIN STREET NORTH STONINGTON CT 06359-1612</p>	<p><b>1 LBS</b></p> <p><b>1 OF 1</b></p>	<p><b>CT 063 0-02</b></p> 		<p><b>UPS GROUND</b></p> <p>TRACKING #: 1Z 9Y4 503 03 3393 1722</p> 	<p><b>BILLING: P/P</b></p>	 <p>Reference # 1: CT2027 - Selectman CS 22.0.12. WNTNV50 39.0A 11/2020*</p>
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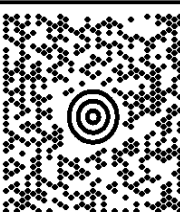
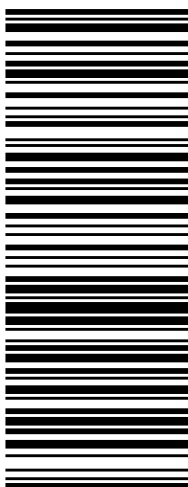

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<p><b>1 LBS</b> <b>1 OF 1</b></p> <p>PATRICIA NOWAK 508-265-5599 CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379</p> <p><b>SHIP TO:</b> JULIET HODGE TOWN OF NORTH STONINGTON PLANNING, DEVELOPMENT &amp; ZONING 40 MAIN STREET NORTH STONINGTON CT 06359-1612</p>	<p><b>CT 063 0-02</b></p>  	<p><b>UPS GROUND</b></p> <p>TRACKING #: 1Z 9Y4 503 03 2518 7338</p> 	<p><b>BILLING: P/P</b></p> <p>Reference # 1: CT2027 - P&amp;Z</p> <p>CS 22.0.12. WNTNV50 39.0A 11/2020*</p> 
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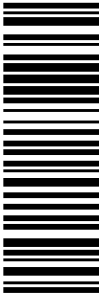


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<p><b>1 LBS</b></p> <p><b>1 OF 1</b></p> <p>PATRICIA NOWAK 508-265-5599 CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER, MA 02379</p> <p><b>SHIP TO:</b> LAND MANAGEMENT 7814287250 AMERICAN TOWER CORPORATION 10 PRESIDENTIAL WAY <b>WOBURN MA 01801-1053</b></p>	<p><b>MA 018 9-04</b></p> 	<p><b>UPS GROUND</b></p> <p>TRACKING #: 1Z 9Y4 503 03 2873 5945</p> 	<p><b>BILLING: P/P</b></p> <p>Reference # 1: CT2027 - ATC</p> <p>CS 22.0.12. WNTNV50 39.0A 11/2020*</p> 
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