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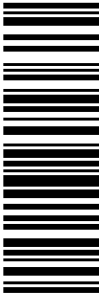
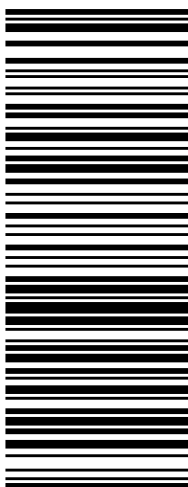

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FOLD HERE

<p>1 OF 1</p> <p>1 LBS</p> <p>CENTERLINE COMMUNICATIONS 5082655599 CENTERLINE CORPORATE 95 RYAN DR. RAYNHAM MA 02767</p> <p>SHIP TO: MELANIE A. BACHMAN 18608272935 CONNECTICUT SITING COUNCIL EXECUTIVE DIRECTOR TEN FRANKLIN SQUARE NEW BRITAIN CT 06051-2655</p>	<p>CT 067 9-06</p> 	<p>UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0427 5540</p> 	<p>BILLING: P/P</p> <p>Reference # 1: CT1071 - CSC</p> <p>CS 22.0.12. WNTNV50 34.0A 10/2020*</p> 
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October 26, 2020

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

Regarding: Notice of Exempt Modification – AT&T Site CT1071
Address: 15 Oakdale Avenue (aka 108 Oakdale Avenue), Winsted, CT

Dear Ms. Bachman:

New Cingular Wireless, PCS, LLC (hereinafter “AT&T”) currently maintains a wireless telecommunications facility on an existing 180’ monopole tower (the “Tower”) at the above-referenced address, latitude 41.921700, longitude -73.049500. 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 (6) remote radio units, adding (3) remote radio units, and adding (1) surge arrestor with accompanying lines, as well as, other related modifications, as more particularly detailed and described in the enclosed Construction Drawings prepared SMW Engineering Group, Inc., dated May 26, 2020. Enclosed please also find a Mount Analysis Report prepared by American Tower Corporation dated May 1, 2020. The centerline height of the antennas will be at 184 feet.

The Tower was originally approved by the Connecticut Siting Council under Docket No. 138 on November 26, 1990. Attached please find a copy of the Docket No. 138 Decision and Order.

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 Althea Candy Perez, Mayor of the Town of Winchester; George Closson, Chairman of the Planning and Zoning Commission; William P. Stow Revocable Trust c/o American Tower Corporation, as the property owner; and American Tower Corporation, as Tower owner. Enclosed please find property card and a GIS map of the property.

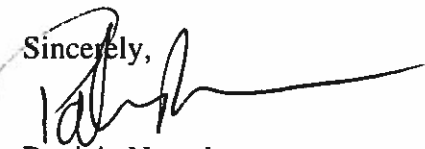
The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Specifically:

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 find a 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. *Enclosed please find the Structural Analysis Report dated August 5, 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,

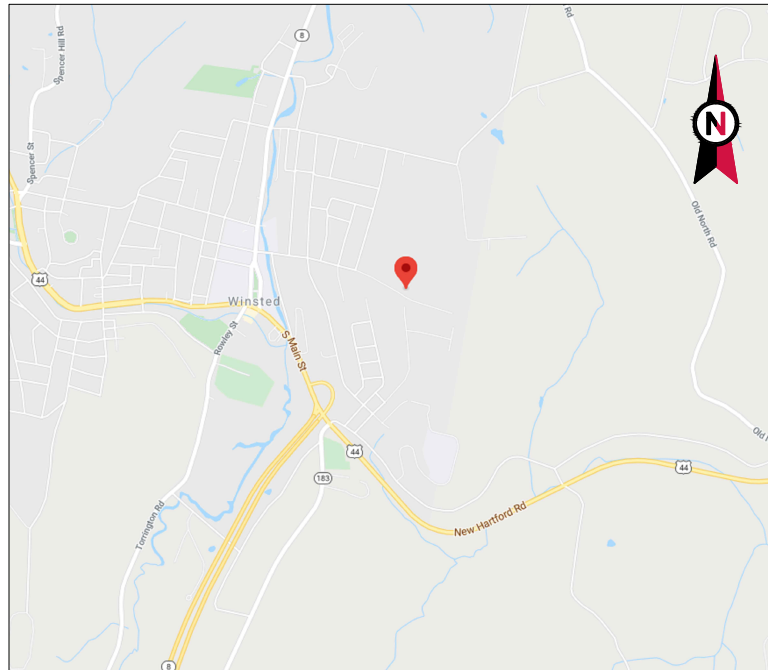


Patricia Nowak
Site Acquisition Consultant
Centerline Communications, LLC
750 West Center Street, Suite 301
West Bridgewater, MA 02379
pnowak@clinellc.com

Enclosures: Exhibit 1 – Construction Drawings
 Exhibit 2 - Mount Analysis
 Exhibit 3 – CSC D&O
 Exhibit 4 – Property Cards and GIS Map
 Exhibit 5 – Radio Frequency Emissions Report
 Exhibit 6 – Structural Analysis

cc: The Honorable Althea Candy Perez, Mayor of the Town of Winchester
 George Closson, Chairman of the Planning and Zoning Commission
 William P. Stow Revocable Trust c/o American Tower Corporation, as the property owner
 American Tower Corporation, as Tower owner

EXHIBIT 1



VICINITY MAP

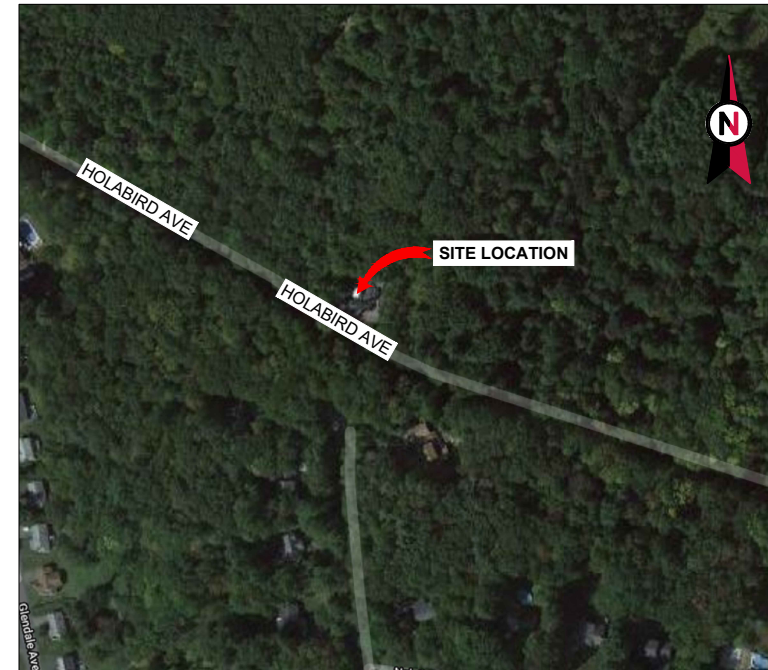


AMERICAN TOWER®

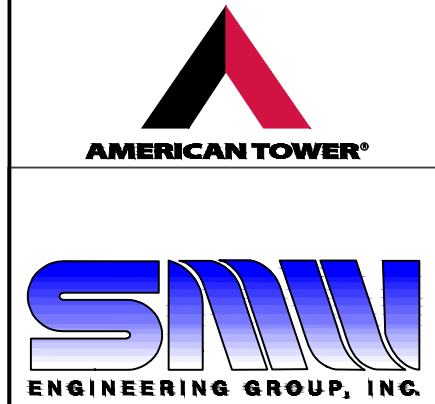
ATC SITE NAME: WINCHESTER CT 3
 ATC SITE NUMBER: 302506
 AT&T PACE NUMBER: MRCTB045239/MRCTB045192/
 MRCTB045293/MRCTB045295/MRCTB045202
 AT&T SITE ID: CTL01071
 AT&T FA CODE: 10035017
 PROJECTS: 5C,6C,5G NR
 SITE ADDRESS: 15 OAKDALE AVENUE

WINSTED, CT 06098-1862

**AT&T MOBILITY
 ANTENNA AMENDMENT DRAWINGS**



LOCATION MAP

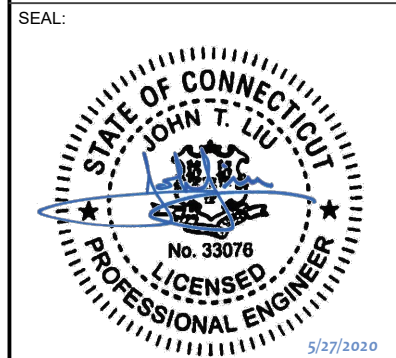


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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	ZDS	05/26/20

ATC SITE NUMBER:
302506
 ATC SITE NAME:
WINCHESTER CT 3

SITE ADDRESS:
 15 OAKDALE AVENUE
 WINSTED, CT 06098-1862



DATE DRAWN:	05/08/20
ATC JOB NO:	302506
CUSTOMER ID:	13201995
CUSTOMER #:	20-10208

COVER SHEET

SHEET NUMBER:
G-001
 REVISION:
0

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> 15 OAKDALE AVENUE WINSTED, CT 06098-1862 COUNTY: LITCHFIELD <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.92169444 LONGITUDE: -73.0495 GROUND ELEVATION: 1073' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: <u>TOWER WORK:</u> REMOVE (6) ANTENNAS, (6) RRR'S, (6) DIPLEXERS, (3) TMA'S, AND (6) 1-5/8" COAX CABLES. INSTALL (6) ANTENNAS, (9) RRR'S, (1) SQUID, (2) 0.78" 8AWG6 DC CABLES, AND (2) 0.39" FIBER CABLES EXISTING (3) ANTENNAS, (5) RRHS, (6) TMA'S, (2) SQUIDS, (6) 1-5/8" COAX CABLES, (2) 0.78" 8AWG6 DC CABLES, AND (1) 0.40" FIBER CABLES TO REMAIN. <u>GROUND WORK:</u> INSTALL (1) 6630 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> JEREMY SHARIT SMW ENGINEERING GROUP INC. 158 BUSINESS CENTER DR. BIRMINGHAM, AL. 35244 JOB# 20-10208 <u>PROPERTY OWNER:</u> WILLIAM P. STOW 6674 HIBISCUS ST BUNNELL, FL - 32110	<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	A	05/11/20	ZDS
<u>UTILITY COMPANIES</u> POWER COMPANY: EVER SOURCE PHONE: (877) 659-6326 TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (800) 376-6843	<u>PROJECT LOCATION DIRECTIONS</u> FROM HARTFORD TAKE RT 44 TO WINCHESTER. JUST BEFORE JUNCTION FOR RT 8 TURN RIGHT AT LIGHT. TAKE SECOND LEFT ONTO OAKDALE AVENUE. GO TO END OF STREET AND THROUGH ACCESS ROAD GATE TO SITE.	G-002	GENERAL NOTES	A	05/11/20	ZDS	
		C-101	DETAILED SITE PLAN	A	05/11/20	ZDS	
		C-201	TOWER ELEVATION	A	05/11/20	ZDS	
		C-401	EXISTING RF SCHEDULE AND ANTENNA INSTALLATION	A	05/11/20	ZDS	
		C-402	FINAL RF SCHEDULE AND ANTENNA INSTALLATION	A	05/11/20	ZDS	
		C-501	CONSTRUCTION DETAILS	A	05/11/20	ZDS	
		C-502	EQUIPMENT SPECIFICATIONS	A	05/11/20	ZDS	
		E-501	GROUNDING DETAILS	A	05/11/20	ZDS	
		R-601	SUPPLEMENTAL	A	05/11/20	ZDS	
		R-602	SUPPLEMENTAL	A	05/11/20	ZDS	

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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 ANSIEIA/NTIA-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.



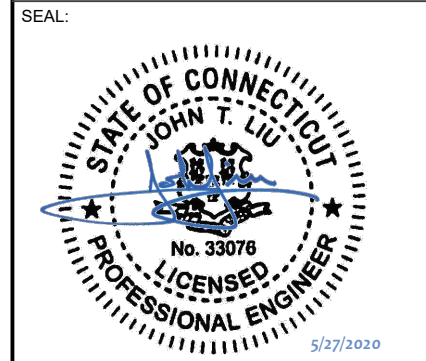
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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	ZDS	05/26/20

ATC SITE NUMBER:
302506

ATC SITE NAME:
WINCHESTER CT 3

SITE ADDRESS:
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 WINSTED, CT 06098-1862



DATE DRAWN:	05/08/20
ATC JOB NO:	302506
CUSTOMER ID:	13201995
CUSTOMER #:	20-10208

GENERAL NOTES

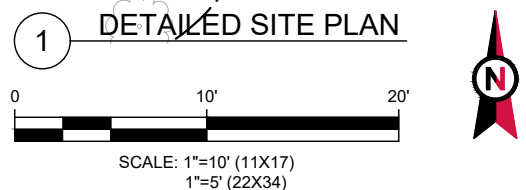
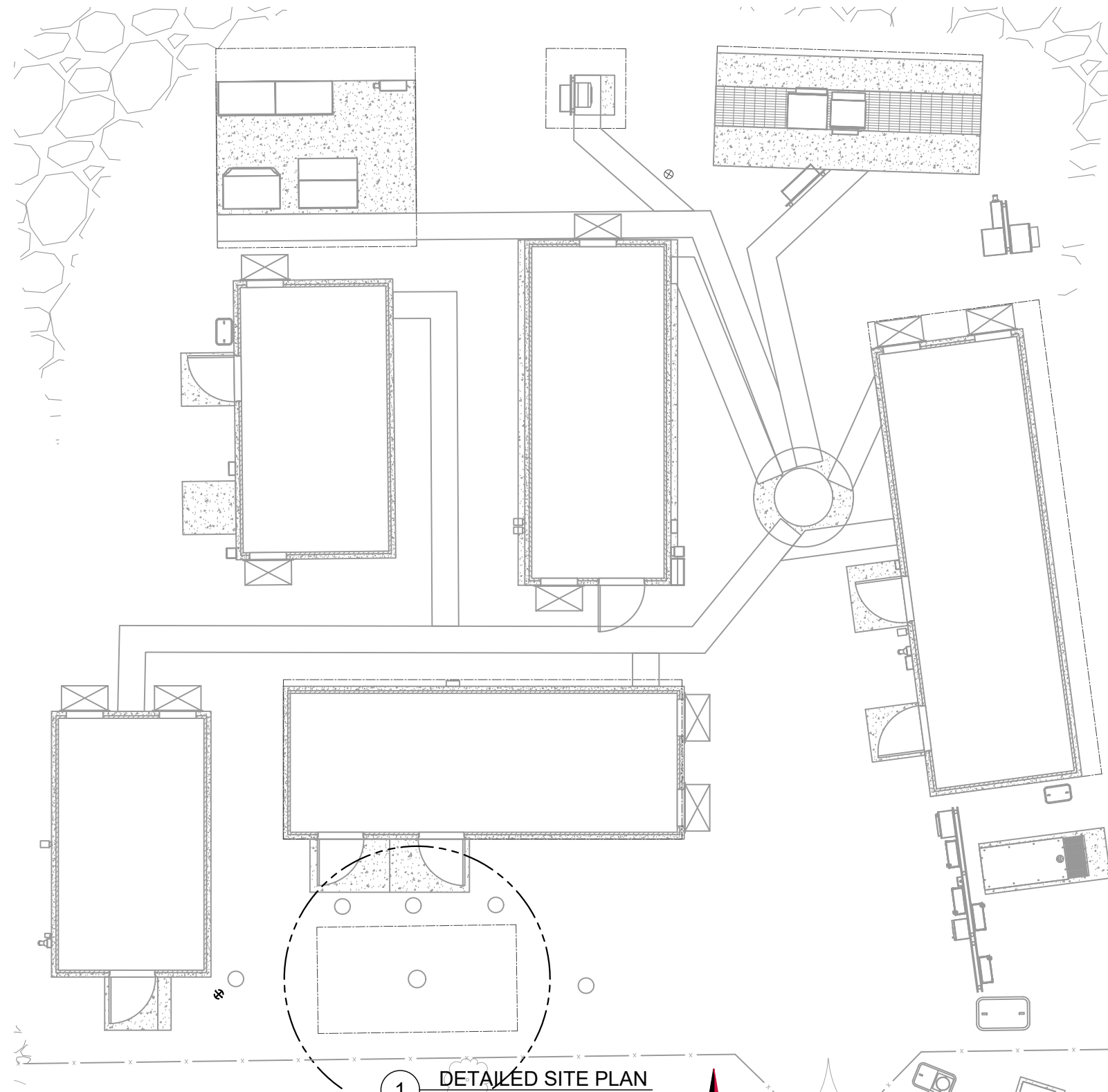
SHEET NUMBER: G-002	REVISION: 0
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SITE PLAN NOTES:

1. 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.
2. 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.
3. 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:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **xxx**. 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.
2. 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).



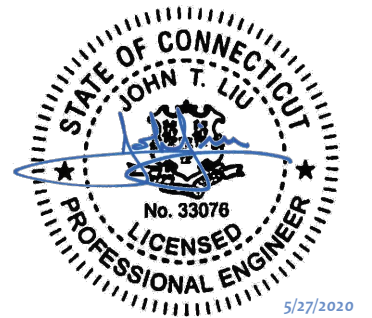
TOGETHER PLANNING A BETTER TOMORROW
 158 BUSINESS CENTER DRIVE
 BIRMINGHAM, AL 35244
 TEL: 205-252-6985 FAX: 205-320-1504

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	ZDS	05/26/20

ATC SITE NUMBER:
302506
 ATC SITE NAME:
WINCHESTER CT 3

SITE ADDRESS:
 15 OAKDALE AVENUE
 WINSTED, CT 06098-1862

SEAL:

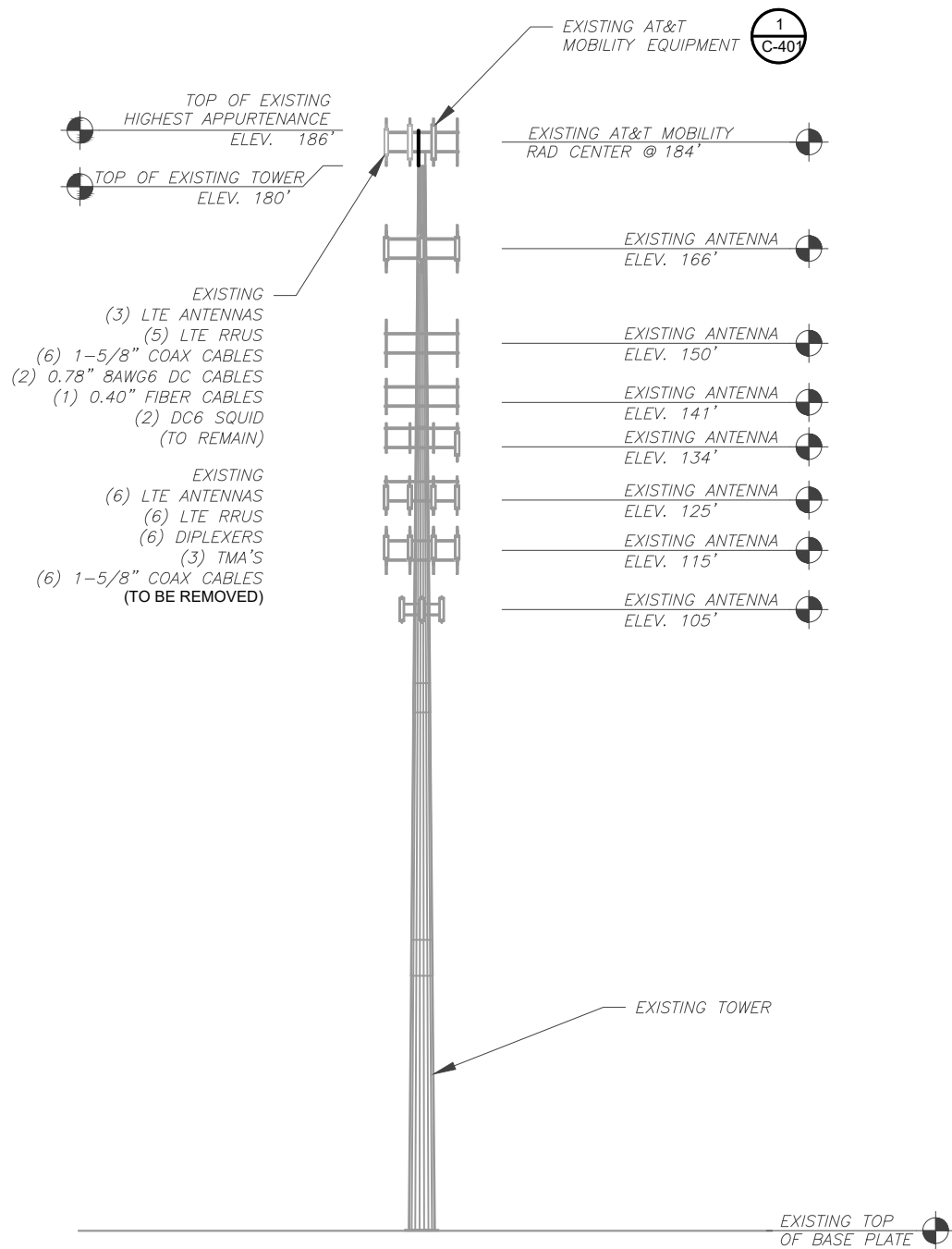


DATE DRAWN:	05/08/20
ATC JOB NO:	302506
CUSTOMER ID:	13201995
CUSTOMER #:	20-10208

DETAILED SITE PLAN

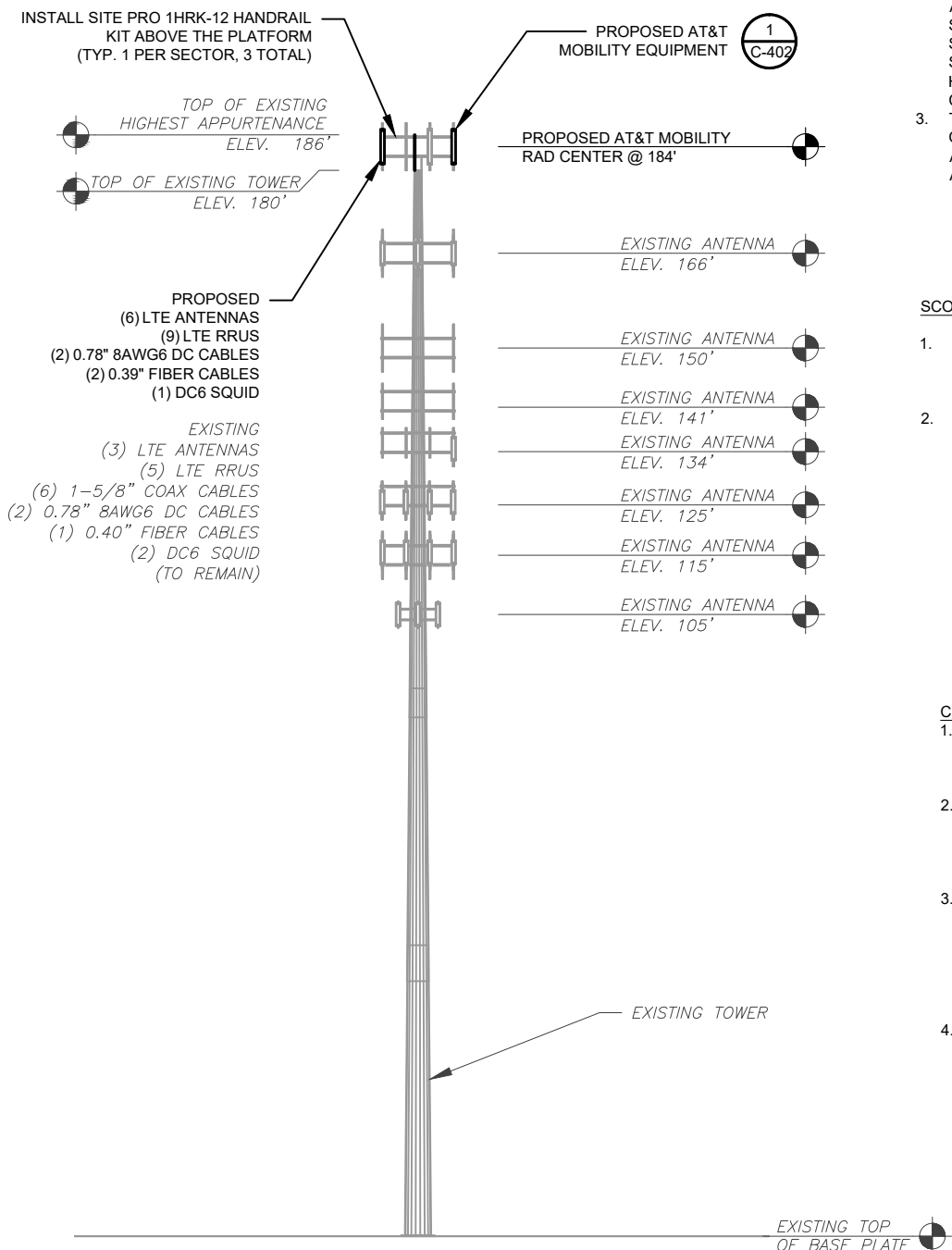
SHEET NUMBER:	REVISION:
C-101	0

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



1 EXISTING TOWER ELEVATION
SCALE: 1" = 30'

PER MOUNT ANALYSIS COMPLETED BY ATC, DATED 05/01/20, THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT



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 ACCODRANCE WITH AT&T STANDARDS.
 - CONTRACTOR SHALL GROUND ALL EQUIPMENT. INCLUDING ANTENNAS, RET MOTORS, TMA'S, COAX CABLES, AND RET CONTROL CBALES AS A COMPLETE SYTEM. 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.



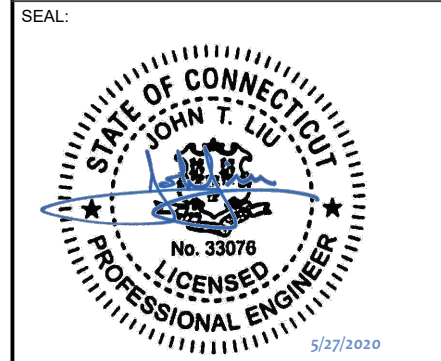
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TEL: 205-252-6985 FAX: 205-320-1504

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	ZDS	05/26/20

ATC SITE NUMBER:
302506

ATC SITE NAME:
WINCHESTER CT 3

SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098-1862

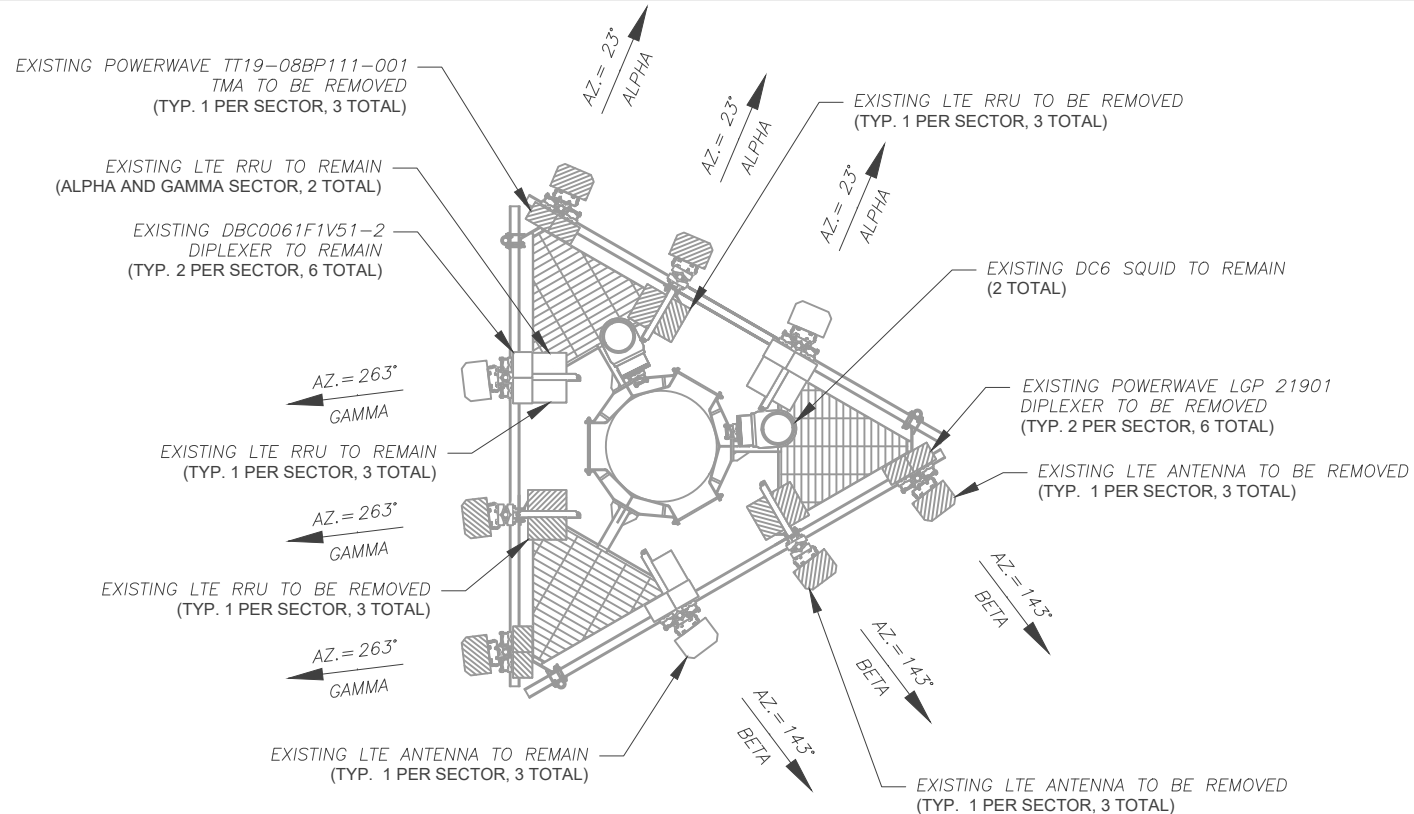


DATE DRAWN:	05/08/20
ATC JOB NO:	302506
CUSTOMER ID:	13201995
CUSTOMER #:	20-10208

TOWER ELEVATION	
SHEET NUMBER: C-201	REVISION: 0

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



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

- NOTES**
1. BASED ON APPROVED ATC APPLICATION 302506, DATED 04/16/20. CONFIRM WITH AT&T MOBILITY REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
 2. 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.
 3. ALL PROPOSED EQUIP INCLUDING ANTENNAS, COAX, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS ON FILE WITH ATC'S CM.
 4. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
 5. POSITIONS START WITH FIRST PIPE ON THE LEFT SIDE (AS VIEWED FROM BEHIND THE MOUNT).

EXISTING ANTENNA SCHEDULE		LOCATION		ANTENNA SUMMARY			NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	180'	23°	A1	POWERWAVE 7770	UMTS	RMV	(2) POWERWAVE LGP 21901 DIPLEXERS	RMV
			A2	KMW AM-X-CD-16-65-00T-RET	LTE	RMV	TT19-08BP111-001 TMA	RMV
			A3	CCI HPA-65R-BUU-H6	LTE	RMN	RRUS-11 B12	RMV
			A4	-	-	-	RRUS-12 B2	RMV
BETA	180'	14.3°	B1	POWERWAVE 7770	UMTS	RMV	RRUS-32 B30	RMN
			B2	KMW AM-X-CD-16-65-00T-RET	LTE	RMV	RRUS-4478 B14	RMN
			B3	CCI HPA-65R-BUU-H6	LTE	RMN	(2) DBC0061F1V51-2 DIPLEXERS	RMN
			B4	-	-	-	-	-
GAMMA	180'	26.3°	C1	POWERWAVE 7770	UMTS	RMV	(2) POWERWAVE LGP 21901 DIPLEXERS	RMV
			C2	KMW AM-X-CD-16-65-00T-RET	LTE	RMV	TT19-08BP111-001 TMA	RMV
			C3	CCI HPA-65R-BUU-H6	LTE	RMN	RRUS-11 B12	RMV
			C4	-	-	-	RRUS-12 B2	RMV

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

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

EXISTING FIBER DISTRIBUTION/SQUID		EXISTING CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
DC6-48-60-18-8F	RMN	(6) 1-5/8" COAX	(2) 0.78"	(1) 0.40"	RMN
DC6-48-60-18-8F	RMN	(6) 1-5/8" COAX	-	-	RMV

2 EQUIPMENT SCHEDULES

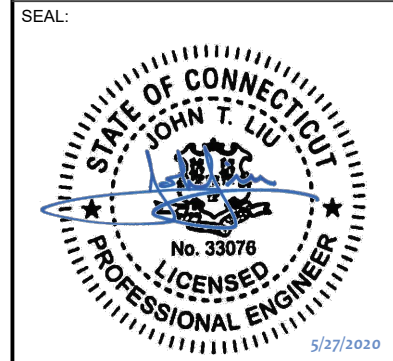


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TEL: 205-252-6985 FAX: 205-320-1504

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	ZDS	05/26/20

ATC SITE NUMBER:
302506
ATC SITE NAME:
WINCHESTER CT 3

SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098-1862



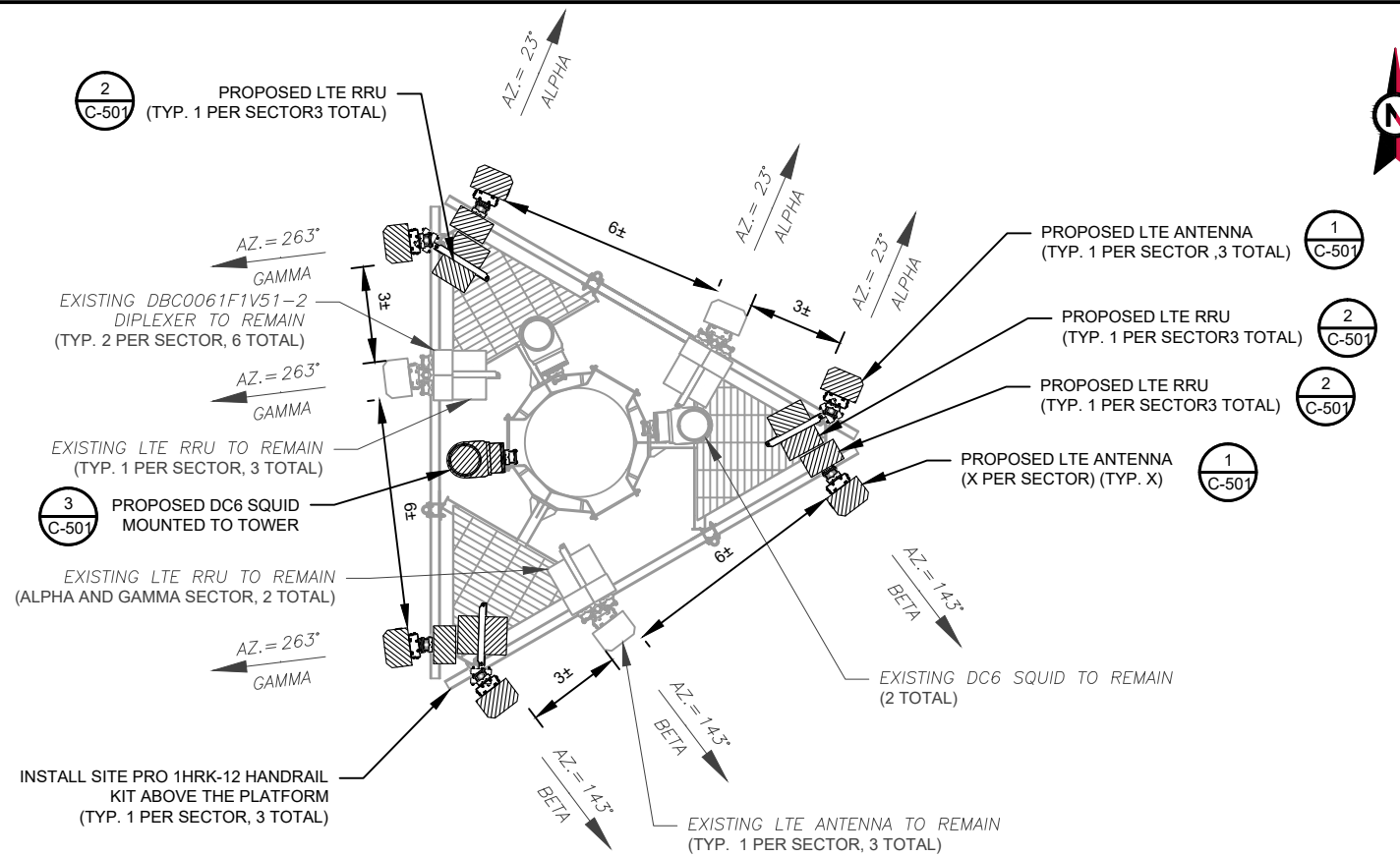
DATE DRAWN:	05/08/20
ATC JOB NO:	302506
CUSTOMER ID:	13201995
CUSTOMER #:	20-10208

EXISTING RF SCHEDULE AND ANTENNA INSTALLATION

SHEET NUMBER:
C-401
REVISION:
0

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PER MOUNT ANALYSIS COMPLETED BY ATC, DATED 05/01/20, THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT



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

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

- NOTES**
- BASED ON APPROVED ATC APPLICATION 302506, DATED 04/16/20. 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	180°	23°	A1	CCI OPA65R-BU6BA	LTE	ADD	RRUS-E2 B29	ADD
			A2	-	-	-	-	
			A3	CCI HPA-65R-BUU-H6	LTE	RMN	RRUS-32 B30 RRUS-4478 B14 (2) DBC0061F1V51-2	RMN RMN RMN
			A4	CCI DMP65R-BU6DA	LTE	ADD	RRUS-4449 B5/B12 RRUS-8843 B2/B66A	ADD ADD
BETA	180°	143°	B1	CCI OPA65R-BU6BA	LTE	ADD	RRUS-E2 B29	ADD
			B2	-	-	-	-	
			B3	CCI HPA-65R-BUU-H6	LTE	RMN	RRUS-32 B30 (2) DBC0061F1V51-2	RMN RMN
			B4	CCI DMP65R-BU6DA	LTE	ADD	RRUS-4449 B5/B12 RRUS-8843 B2/B66A	ADD ADD
GAMMA	180°	263°	C1	CCI OPA65R-BU6BA	LTE	ADD	RRUS-E2 B29	ADD
			C2	-	-	-	-	
			C3	CCI HPA-65R-BUU-H6	LTE	RMN	RRUS-32 B30 RRUS-4478 B14 (2) DBC0061F1V51-2	RMN RMN RMN
			C4	CCI DMP65R-BU6DA	LTE	ADD	RRUS-4449 B5/B12 RRUS-8843 B2/B66A	ADD ADD

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

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

FINAL FIBER DISTRIBUTION/SQUID		FINAL CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
DC6-48-60-18-8F	RMN	(6) 1-5/8" COAX	(2) 0.78"	(1) 0.40"	RMN
DC6-48-60-18-8F	RMN	(6) 1-5/8" COAX	-	-	RMV
DC6-48-60-18-8F	ADD	-	(2) 0.78"	(2) 0.39"	ADD

2 EQUIPMENT SCHEDULES

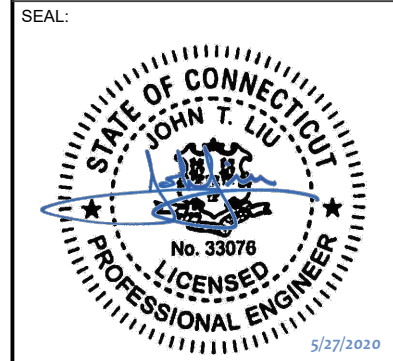


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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	ZDS	05/26/20

ATC SITE NUMBER:
302506
ATC SITE NAME:
WINCHESTER CT 3

SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098-1862

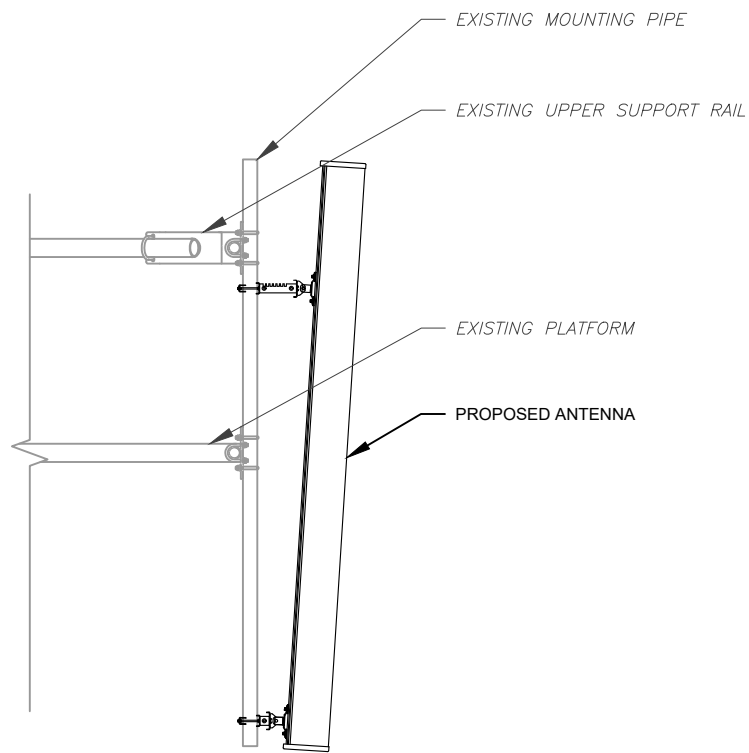


DATE DRAWN:	05/08/20
ATC JOB NO:	302506
CUSTOMER ID:	13201995
CUSTOMER #:	20-10208

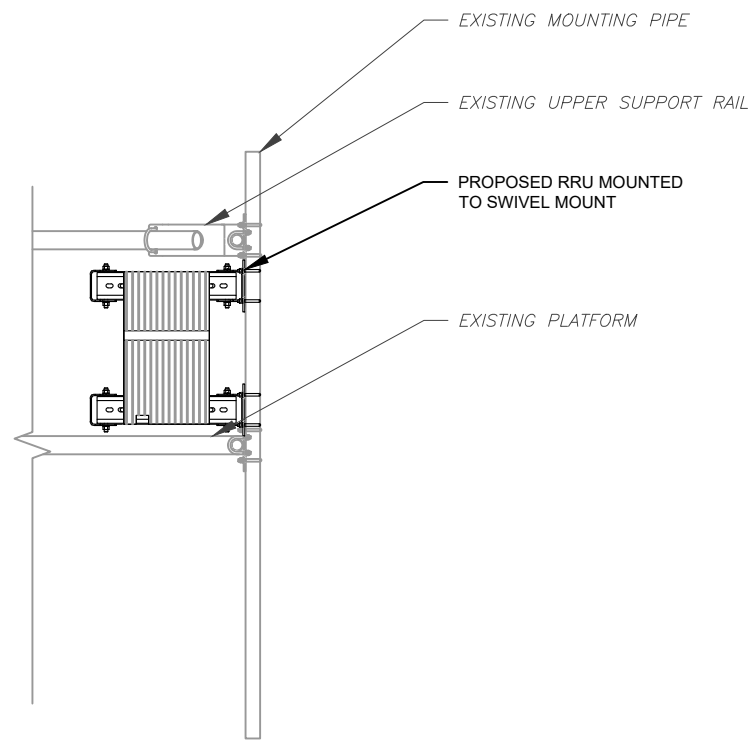
FINAL RF SCHEDULE AND ANTENNA INSTALLATION

SHEET NUMBER:
C-402
REVISION:
0

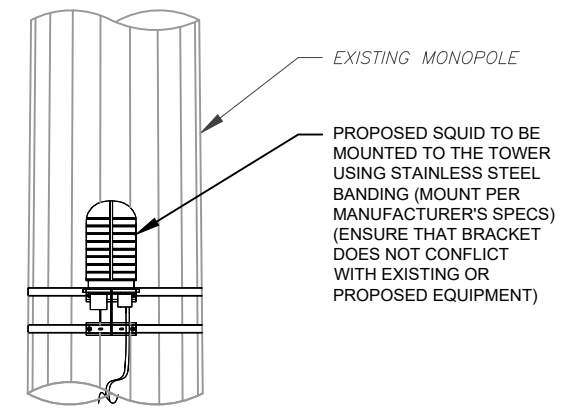
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1 ANTENNA DETAIL
SCALE: N.T.S.



2 RRU DETAIL
SCALE: N.T.S.



3 PROPOSED SQUID MOUNTING
SCALE: NOT TO SCALE



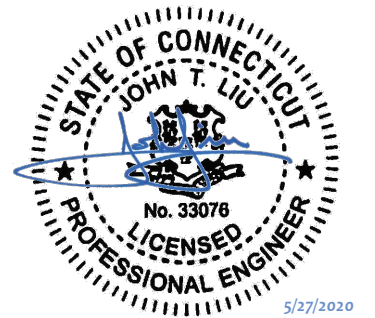
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TEL: 205-252-6985 FAX: 205-320-1504

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	ZDS	05/26/20

ATC SITE NUMBER:
302506
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SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098-1862

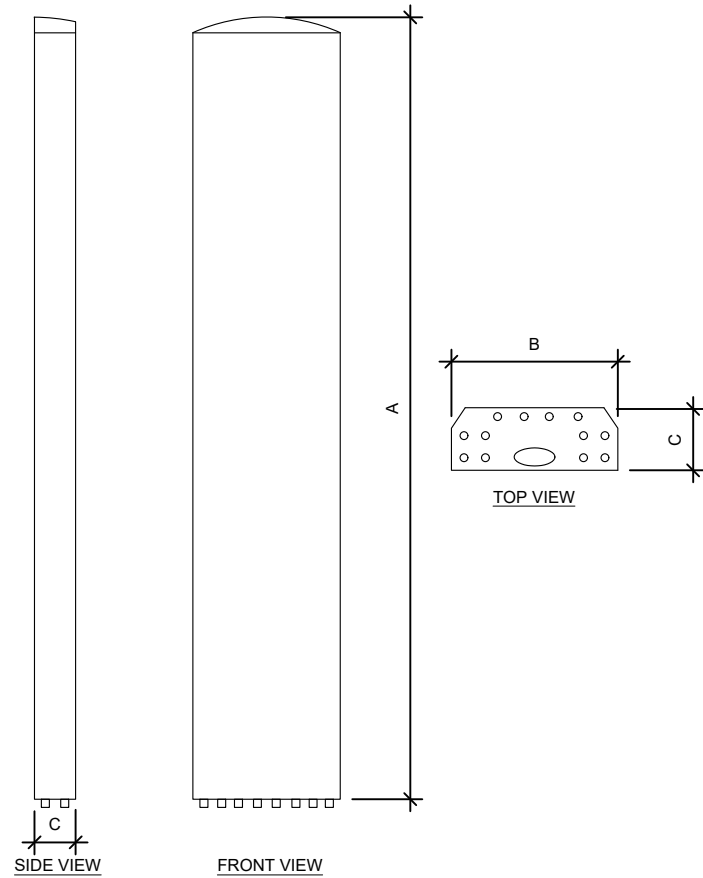
SEAL:



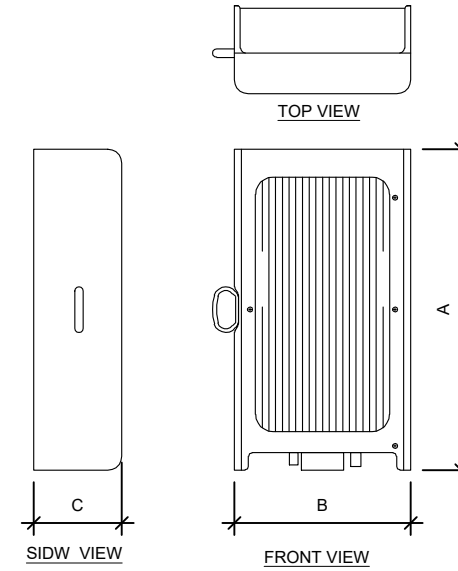
DATE DRAWN:	05/08/20
ATC JOB NO:	302506
CUSTOMER ID:	13201995
CUSTOMER #:	20-10208

CONSTRUCTION
DETAILS

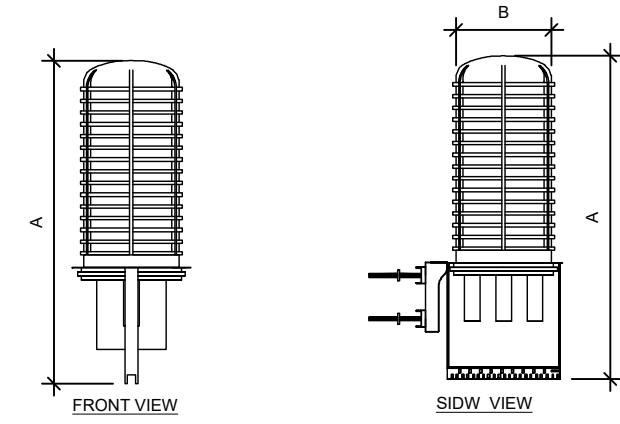
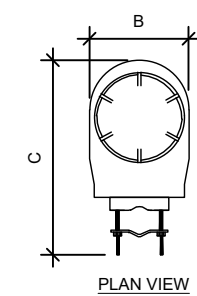
SHEET NUMBER:	REVISION:
C-501	0



ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
CCI OPA65R-BU6BA	71.1"	11.7"	8.4"	55



RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
RRUS-E2 B29	20.4"	18.5"	7.5"	60.0
RRUS-8843 B2/B66A	18.0"	13.2"	11.3"	75.0
RRUS-4449 B5/B12	17.9"	13.2"	9.4"	71.0



RAYCAP SPECIFICATIONS				
RAYCAP MODEL	A	B	C	WEIGHT (LBS)
DC6-48-60-18-8F	31.41"	10.24"	18.28"	16.0

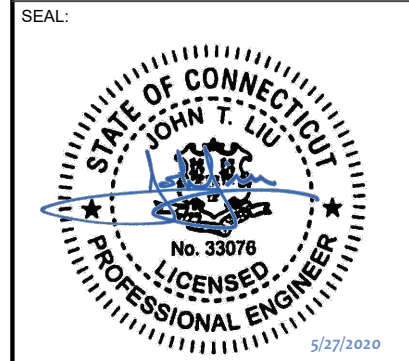
1 EQUIPMENT SPECIFICATIONS
SCALE: NOT TO SCALE



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REV.	DESCRIPTION	BY	DATE
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302506
ATC SITE NAME:
WINCHESTER CT 3
SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098-1862

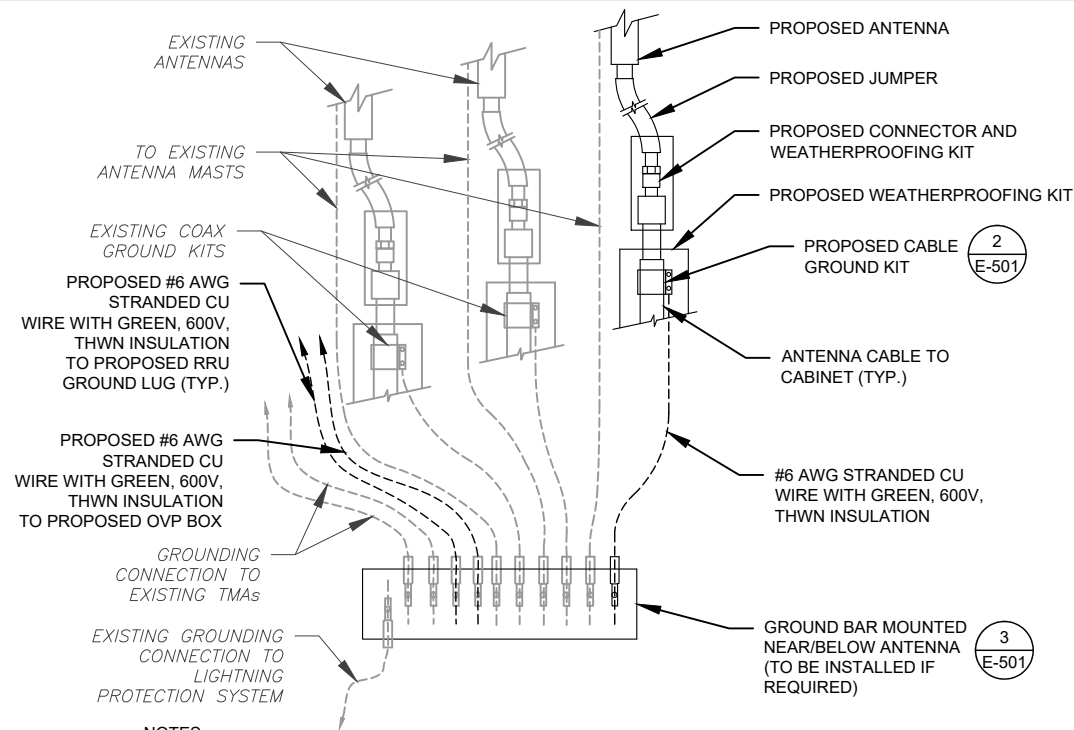


DATE DRAWN:	05/08/20
ATC JOB NO:	302506
CUSTOMER ID:	13201995
CUSTOMER #:	20-10208

EQUIPMENT SPECIFICATIONS

SHEET NUMBER:	REVISION:
C-502	0

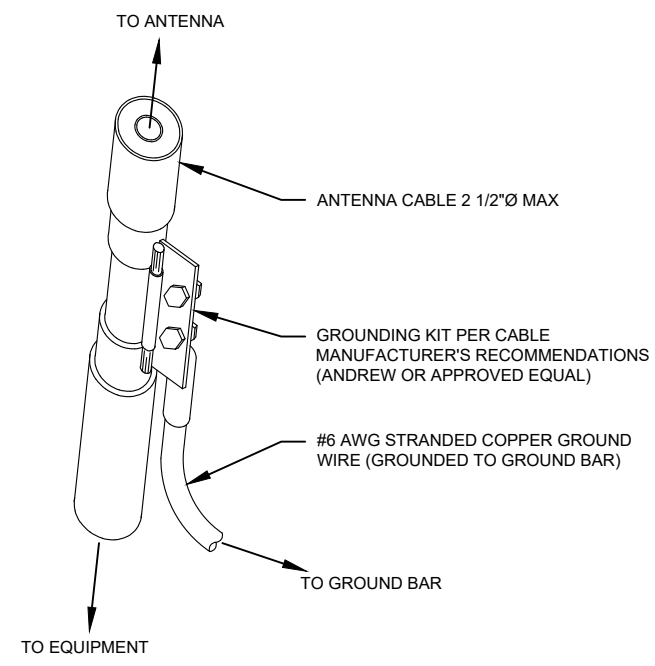
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NOTES:

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.

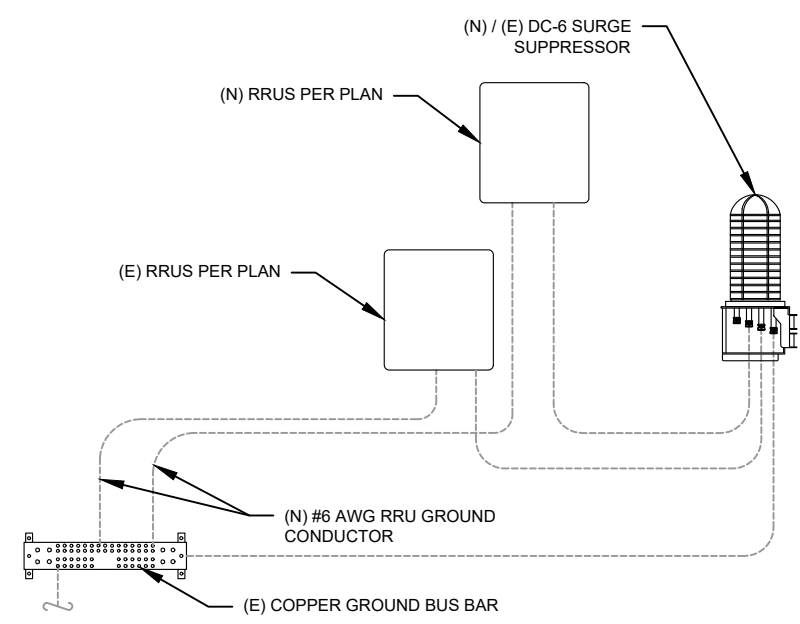
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



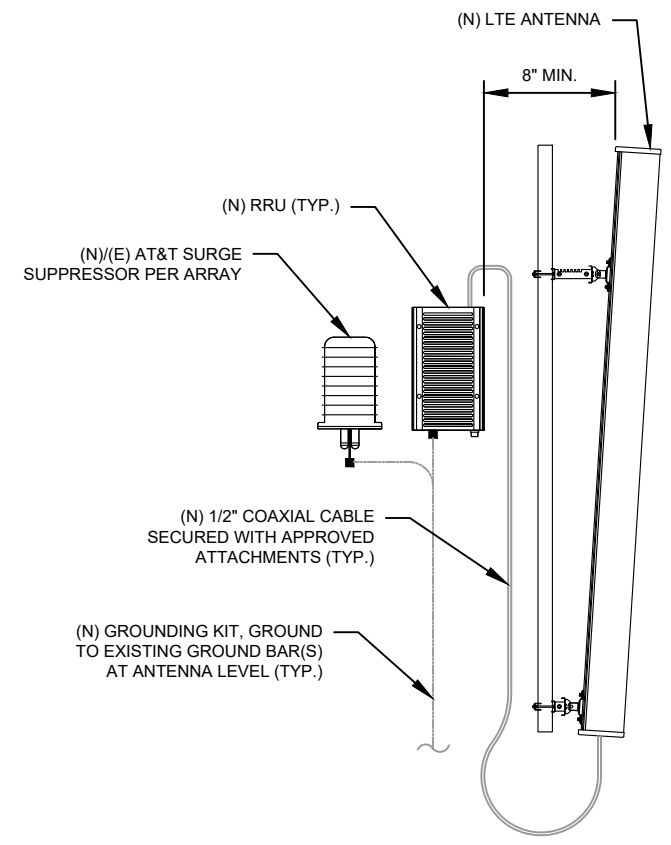
GROUND KIT NOTES:

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.



3 RRU GROUNDING
SCALE: N.T.S.



4 ANTENNA/RRU GROUNDING
SCALE: N.T.S.

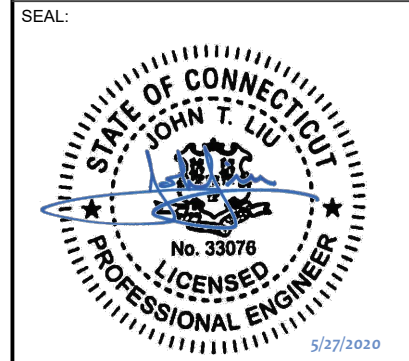


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DATE DRAWN:	05/08/20
ATC JOB NO:	302506
CUSTOMER ID:	13201995
CUSTOMER #:	20-10208

GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0

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Eng. Number 13201995_C8_01
 May 1, 2020
 Page 1

Antenna Mount Analysis Report

ATC Site Name : Winchester CT 3, CT
ATC Site Number : 302506
Engineering Number : 13201995_C8_01
Mount Elevation : 184 ft
Carrier : AT&T Mobility
Carrier Site Name : MRCTB045239
Carrier Site Number : CTL01071
Site Location : 15 Oakdale Avenue
 Winsted, CT 06098-1862
 41.92169444 , -73.0495
County : Litchfield
Date : May 1, 2020
Max Usage : 76%
Result : Contingent Pass

Prepared By:
 Rohith Koduru
 Structural Engineer

Reviewed By:



Authorized by "EOR"
 01 May 2020 05:45:27 cosign

COA: PEC.0001553

Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for AT&T Mobility at 184 ft.

Supporting Documents

Mount Mapping	Mastec Project #10035017, dated April 16, 2020
Radio Frequency Data Sheet	RFDS ID #10035017, dated March 5, 2020
Reference Photos	Site photos from 2020

Analysis

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

Basic Wind Speed:	124 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:	III
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Spectral Response:	Ss = 0.169, S1 = 0.054
Site Class:	D - Stiff Soil
Live Loads: *	Lm = 500 lbs

* Based on experience it has been determined that the maintenance load cases do not control over rigging load cases in platform mount analyses. Therefore, these load cases have been excluded from this analysis.

Conclusion

Based on the analysis results, the antenna mount does not meet the requirements per the applicable codes listed above. The mount can support the equipment as described in this report after the below listed modifications are completed:

- Install Site Pro 1 HRK-12 handrail kit 36" above the platform.

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



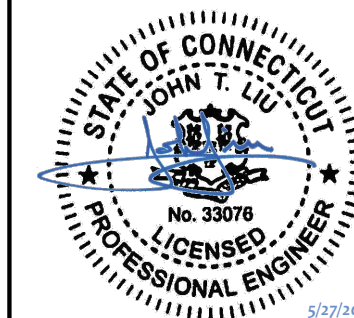
TOGETHER PLANNING A BETTER TOMORROW
 158 BUSINESS CENTER DRIVE
 BIRMINGHAM, AL 35244
 TEL: 205-252-6985 FAX: 205-320-1504

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	ZDS	05/26/20

ATC SITE NUMBER:
 302506
 ATC SITE NAME:
 WINCHESTER CT 3

SITE ADDRESS:
 15 OAKDALE AVENUE
 WINSTED, CT 06098-1862

SEAL:

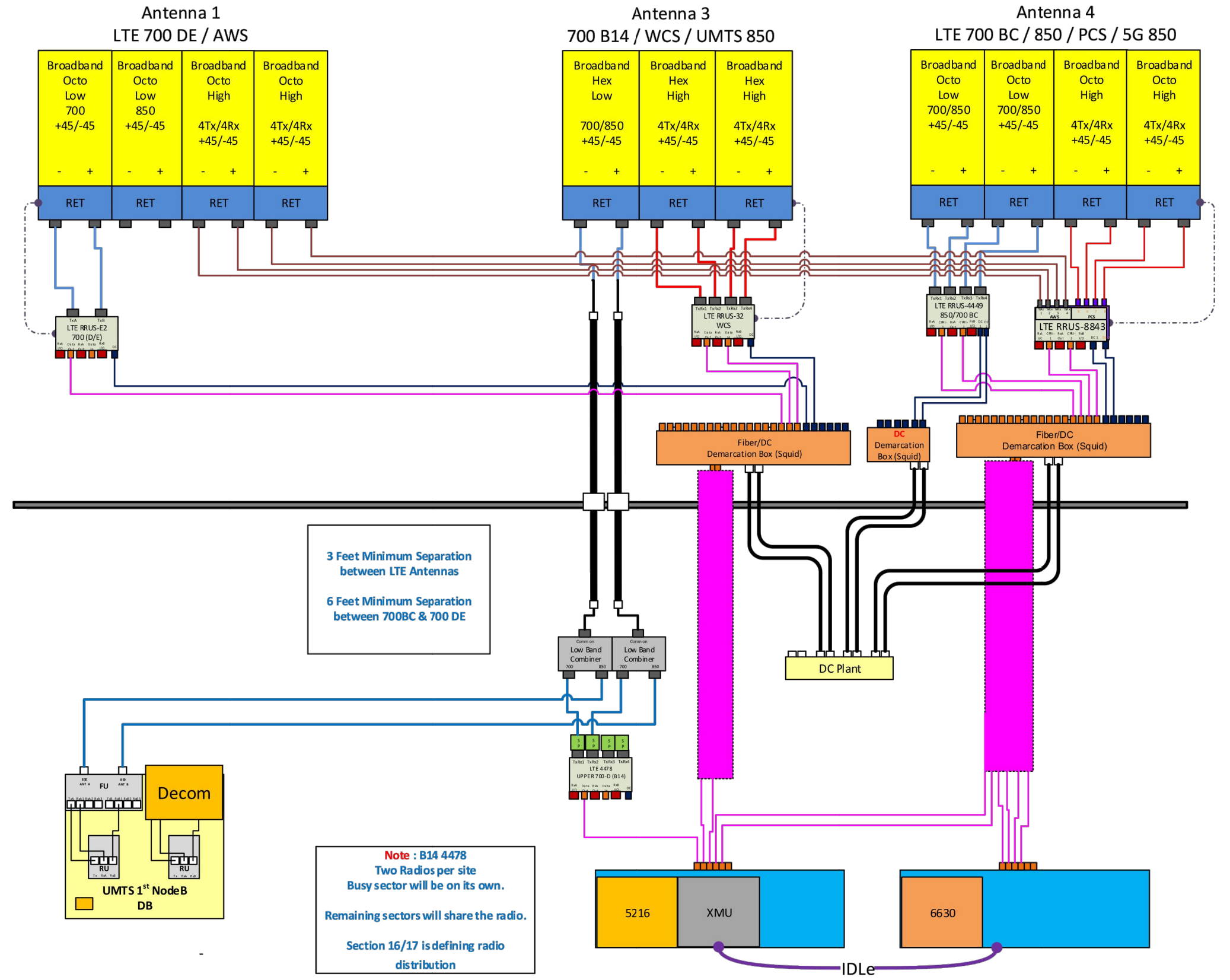


DATE DRAWN:	05/08/20
ATC JOB NO:	302506
CUSTOMER ID:	13201995
CUSTOMER #:	20-10208

SUPPLEMENTAL

SHEET NUMBER:
R-602

REVISION:
0



1 PLUMBING DIAGRAM SCALE: NOT TO SCALE

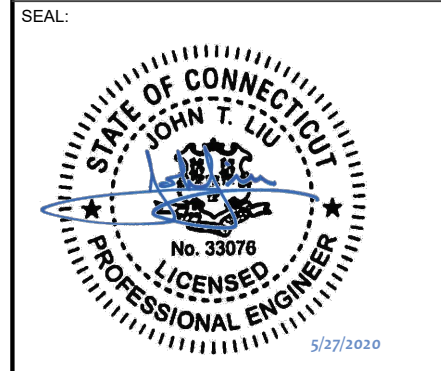
NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.



SNW
 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	05/26/20

ATC SITE NUMBER:
302506
 ATC SITE NAME:
WINCHESTER CT 3
 SITE ADDRESS:
 15 OAKDALE AVENUE
 WINSTED, CT 06098-1862



DATE DRAWN:	05/08/20
ATC JOB NO:	302506
CUSTOMER ID:	13201995
CUSTOMER #:	20-10208

SUPPLEMENTAL

SHEET NUMBER: R-603	REVISION: 0
-------------------------------	-----------------------

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EXHIBIT 2



AMERICAN TOWER®
CORPORATION

Antenna Mount Analysis Report

ATC Site Name : Winchester CT 3, CT
ATC Site Number : 302506
Engineering Number : 13201995_C8_01
Mount Elevation : 184 ft
Carrier : AT&T Mobility
Carrier Site Name : MRCTB045239
Carrier Site Number : CTL01071
Site Location : 15 Oakdale Avenue
Winsted, CT 06098-1862
41.92169444 , -73.0495
County : Litchfield
Date : May 1, 2020
Max Usage : 76%
Result : Contingent Pass

Prepared By:
Rohith Koduru
Structural Engineer

Reviewed By:



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 Conditions6

Calculations Attached



Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for AT&T Mobility at 184 ft.

Supporting Documents

Mount Mapping	Mastec Project #10035017, dated April 16, 2020
Radio Frequency Data Sheet	RFDS ID #10035017, dated March 5, 2020
Reference Photos	Site photos from 2020

Analysis

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

Basic Wind Speed:	124 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:	III
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Spectral Response:	Ss = 0.169, S1 = 0.054
Site Class:	D - Stiff Soil
Live Loads: *	Lm = 500 lbs

* Based on experience it has been determined that the maintenance load cases do not control over rigging load cases in platform mount analyses. Therefore, these load cases have been excluded from this analysis.

Conclusion

Based on the analysis results, the antenna mount does not meet the requirements per the applicable codes listed above. The mount can support the equipment as described in this report after the below listed modifications are completed:

- Install Site Pro 1 HRK-12 handrail kit 36" above the platform.

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



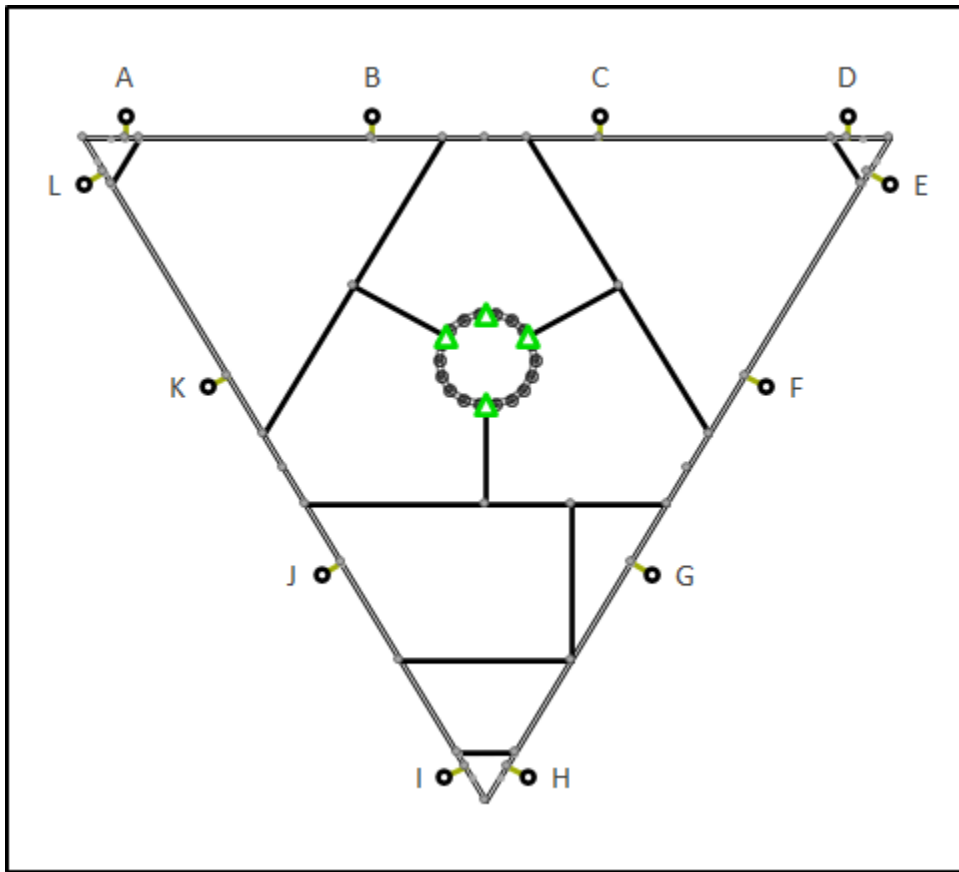
Application Loading

Mount Centerline (ft)	Antenna Centerline (ft)	Qty	Antenna Model
184.0	184.0	3	CCI DMP65R-BU6DA
		3	CCI OPA65R-BU6B
		3	CCI HPA-65R-BUU-H6
		3	Powerwave Allgon TT19-08BP111-001
		3	Powerwave Allgon LGP21401
		2	Kaelus DBC0061F1V51-2
		3	Raycap DC6-48-60-18-8F (23.5" Height)
		3	Ericsson RRUS E2 B29
		3	Ericsson RRUS 32 B30
		2	Ericsson RRUS 4478 B14
		3	Ericsson RRUS 4449 B5, B12
		3	Ericsson RRUS 8843 B2, B66A

Structure Usages

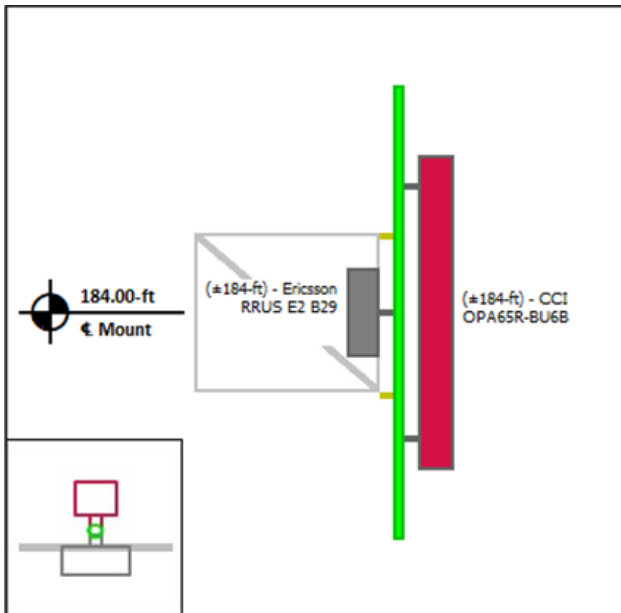
Structural Component	Controlling Usage	Pass/Fail
Horizontals	61%	Pass
Mount Pipes	76%	Pass
Handrail	30%	Pass

Mount Layout

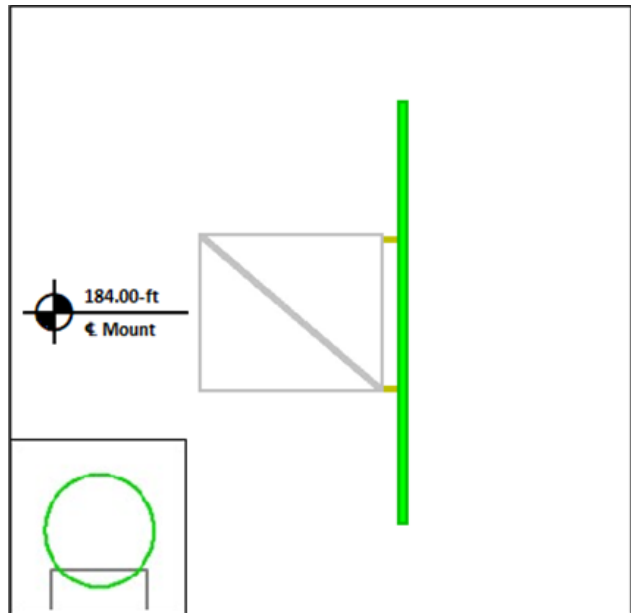


Equipment Layout

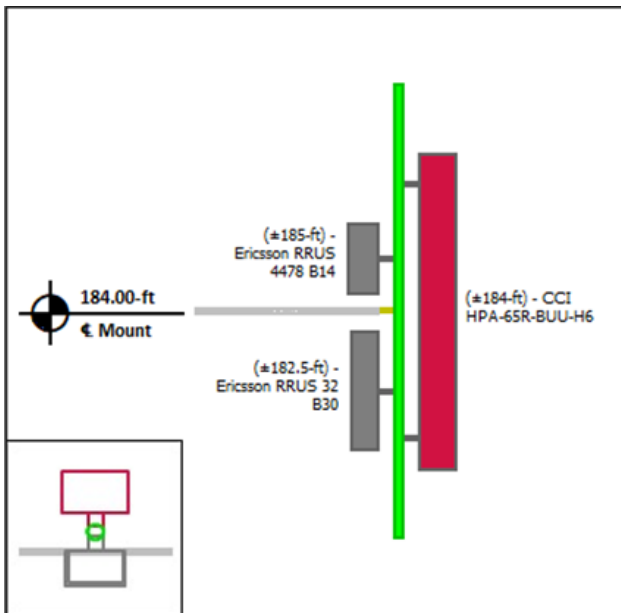
Mount Pipe A



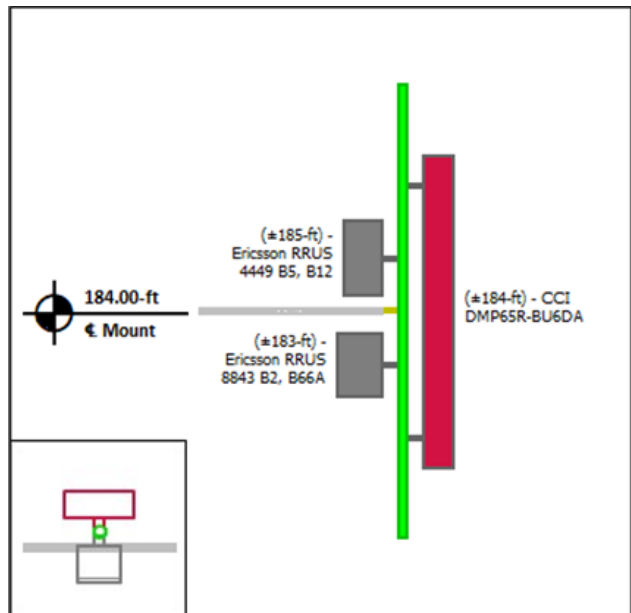
Mount Pipe B



Mount Pipe C

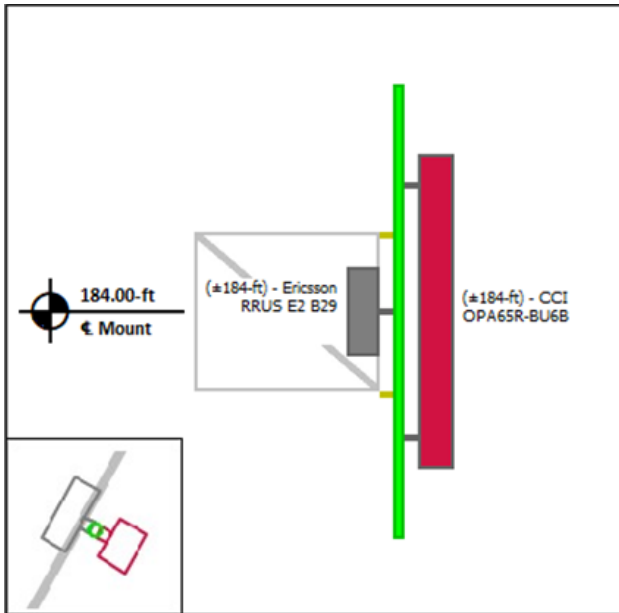


Mount Pipe D

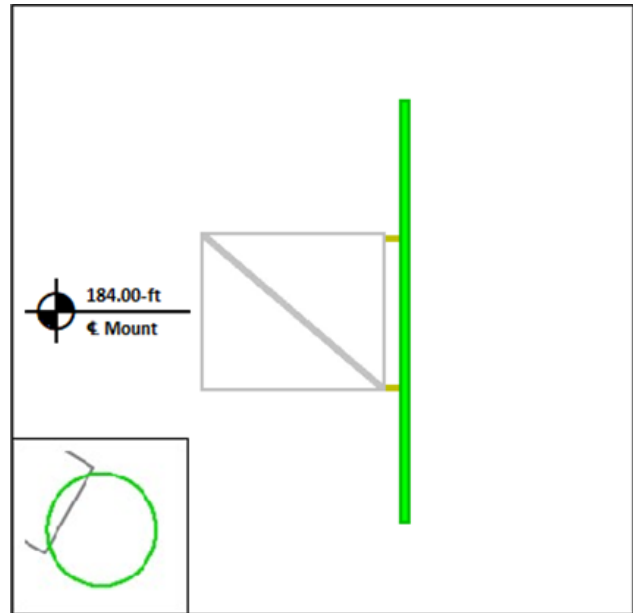


Equipment Layout Cont'd.

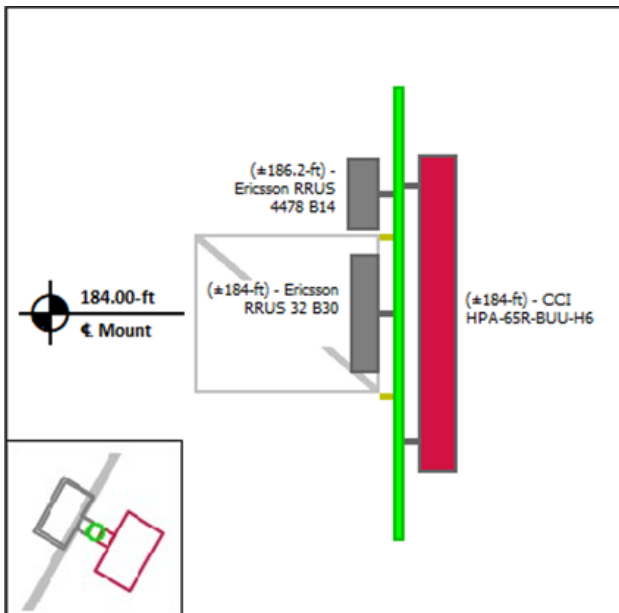
Mount Pipe E



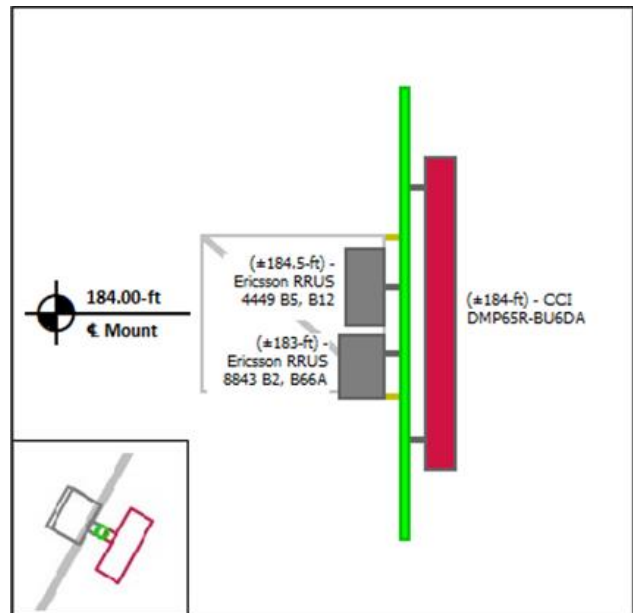
Mount Pipe F



Mount Pipe G

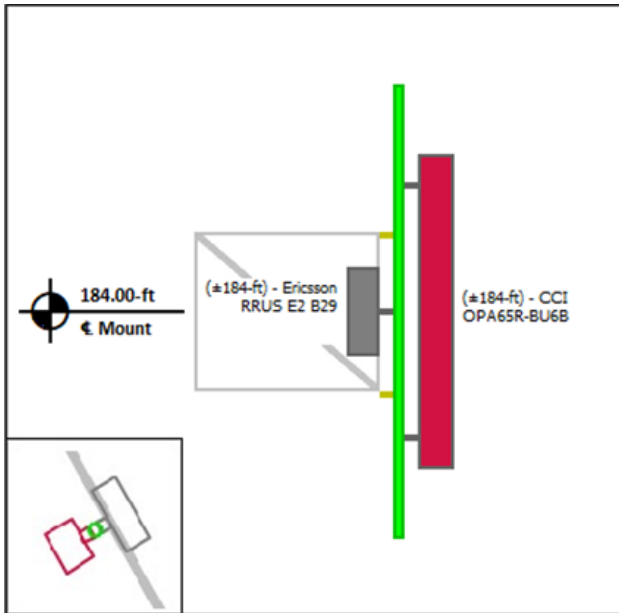


Mount Pipe H

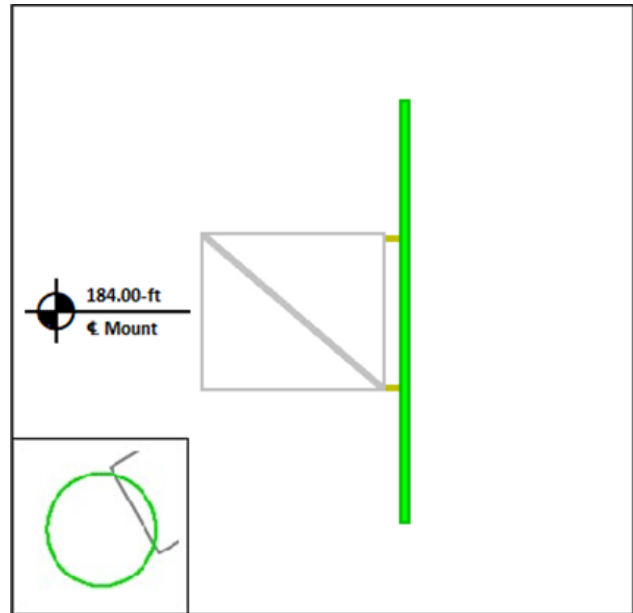


Equipment Layout Cont'd.

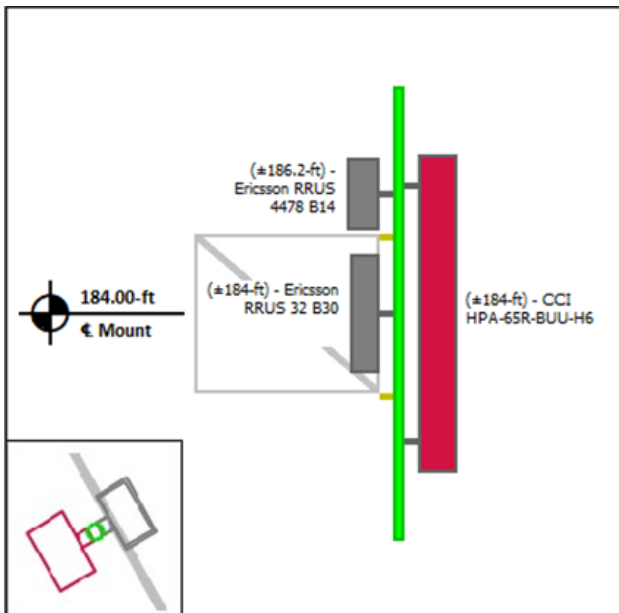
Mount Pipe I



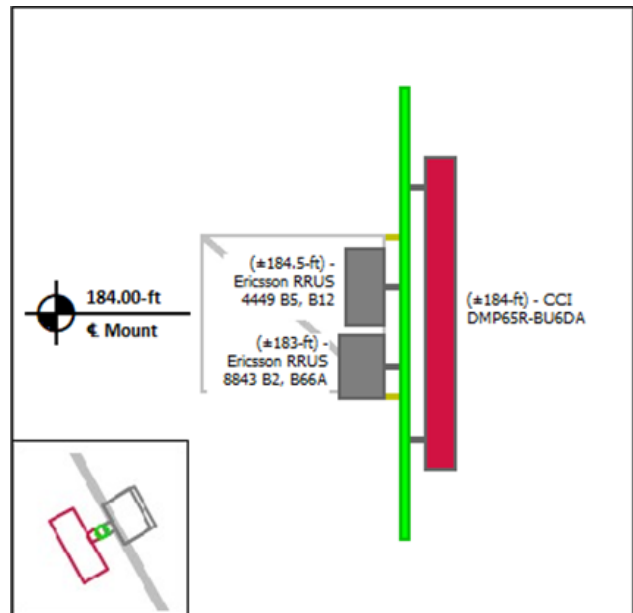
Mount Pipe J



Mount Pipe K



Mount Pipe L





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.

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.



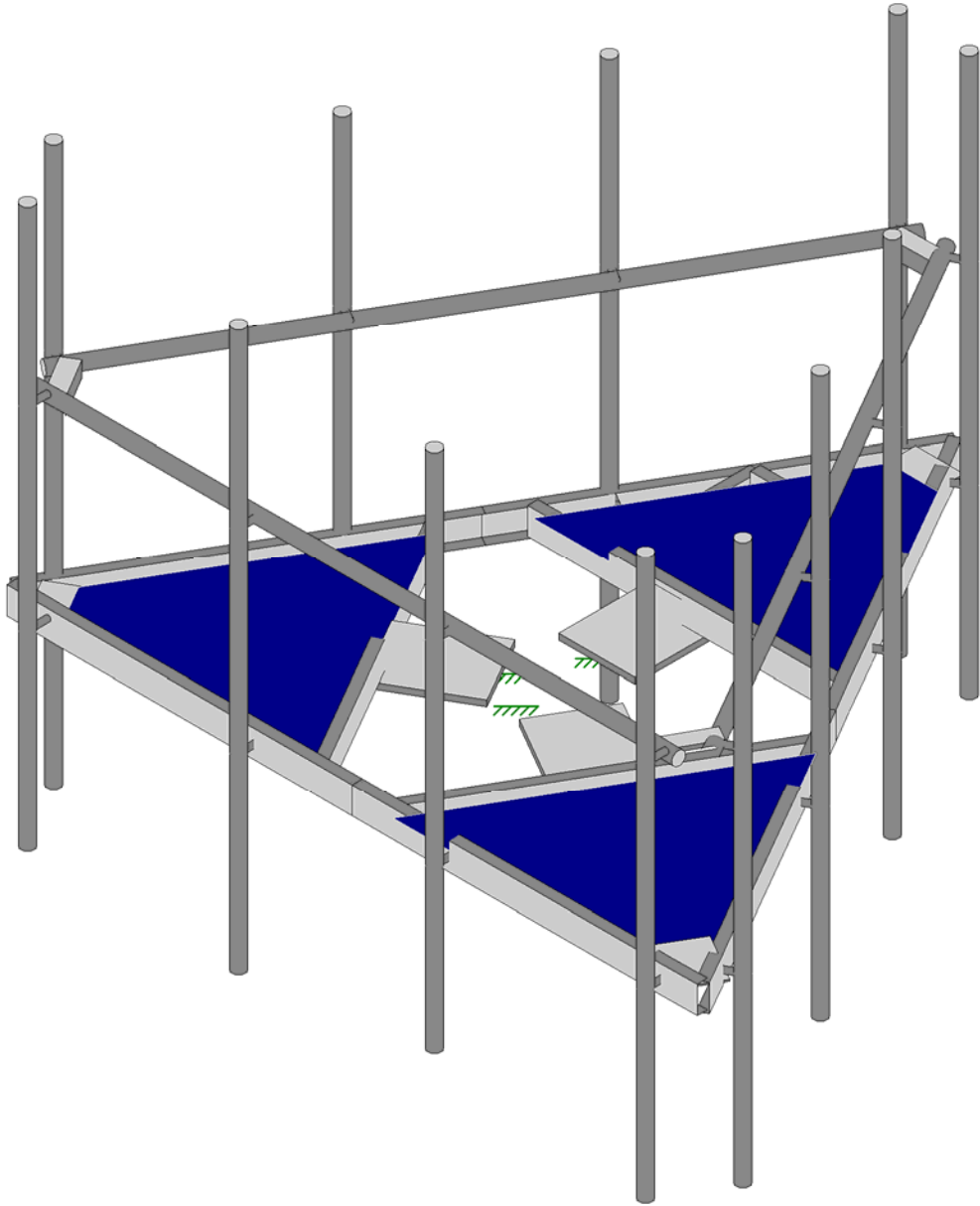
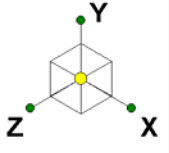
Site Number: 302506
Project Number: 13201995_C8_01
Carrier: AT&T Mobility
Mount Elevation: 184 ft
Date: 5/1/2020

Mount Analysis Force Calculations

Wind & Ice Load Calculations			
Velocity Pressure Coefficient	K_z	1.18	
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	0.96	
Wind Direction Probability Factor	K_d	0.95	
Basic Wind Speed	V	124	mph
Velocity Pressure	q_z	42.4	psf
Height Escalation Factor	K_{iz}	1.19	
Thickness of Radial Glaze Ice	T_{iz}	1.19	in

Seismic Load Calculations			
Short Period DSRAP	S_{DS}	0.180	
1 Second DSRAP	S_{D1}	0.086	
Importance Factor	I	1.3	
Response Modification Coefficient	R	2.0	
Seismic Response Coefficient	C_s	0.113	
Amplification Factor	A	1.0	
Total Weight	W	2459.6	lbs
Total Shear Force	V_s	277.1	lbs
Horizontal Seismic Load	E_h	277.1	lbs
Vertical Seismic Load	E_v	88.7	lbs

Antenna Calculations									
Equipment	Height	Width	Depth	Weight	EPA_N	EPA_T	EPA_{Ni}	EPA_{Ti}	
Model #	in	in	in	lbs	sqft	sqft	sqft	sqft	
CCI DMP65R-BU6DA	71.2	20.7	7.7	79.4	12.71	2.28	14.64	3.09	
CCI OPA65R-BU6B	71.1	11.7	8.4	55.0	7.85	2.49	9.76	3.30	
CCI HPA-65R-BUU-H6	72.0	14.8	9.0	51.0	9.66	2.70	11.58	3.53	
Powerwave Allgon TT19-08BP111-001	9.9	6.7	5.4	16.0	N/A	N/A			
Powerwave Allgon LGP21401	14.4	9.2	2.6	14.1	N/A	N/A			
Kaelus DBC0061F1V51-2	8.0	6.5	6.2	25.5	N/A	N/A			
Raycap DC6-48-60-18-8F (23.5" Height)	23.5	9.7	9.7	20.0	N/A	N/A			
Ericsson RRUS E2 B29	20.4	18.5	7.5	60.0	3.15	1.29	3.96	1.89	
Ericsson RRUS 32 B30	27.2	12.1	7.0	60.0	2.74	1.67	3.57	2.43	
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	



American Tower Corp.

Rohith.Koduru

13201995_C8_01

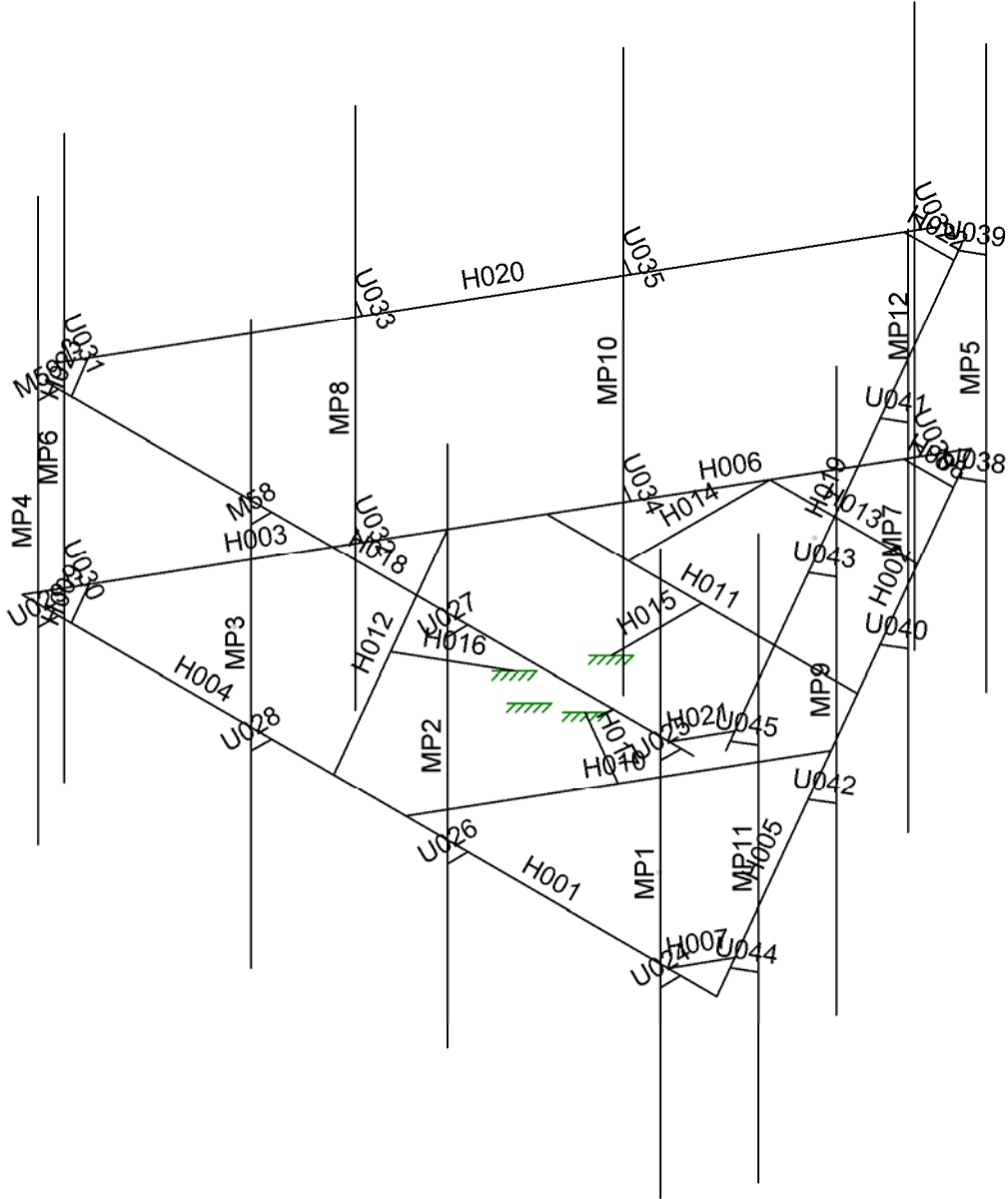
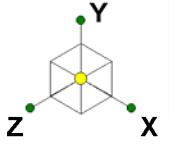
302506, Winchester CT 3

3D Rendering

SK - 6

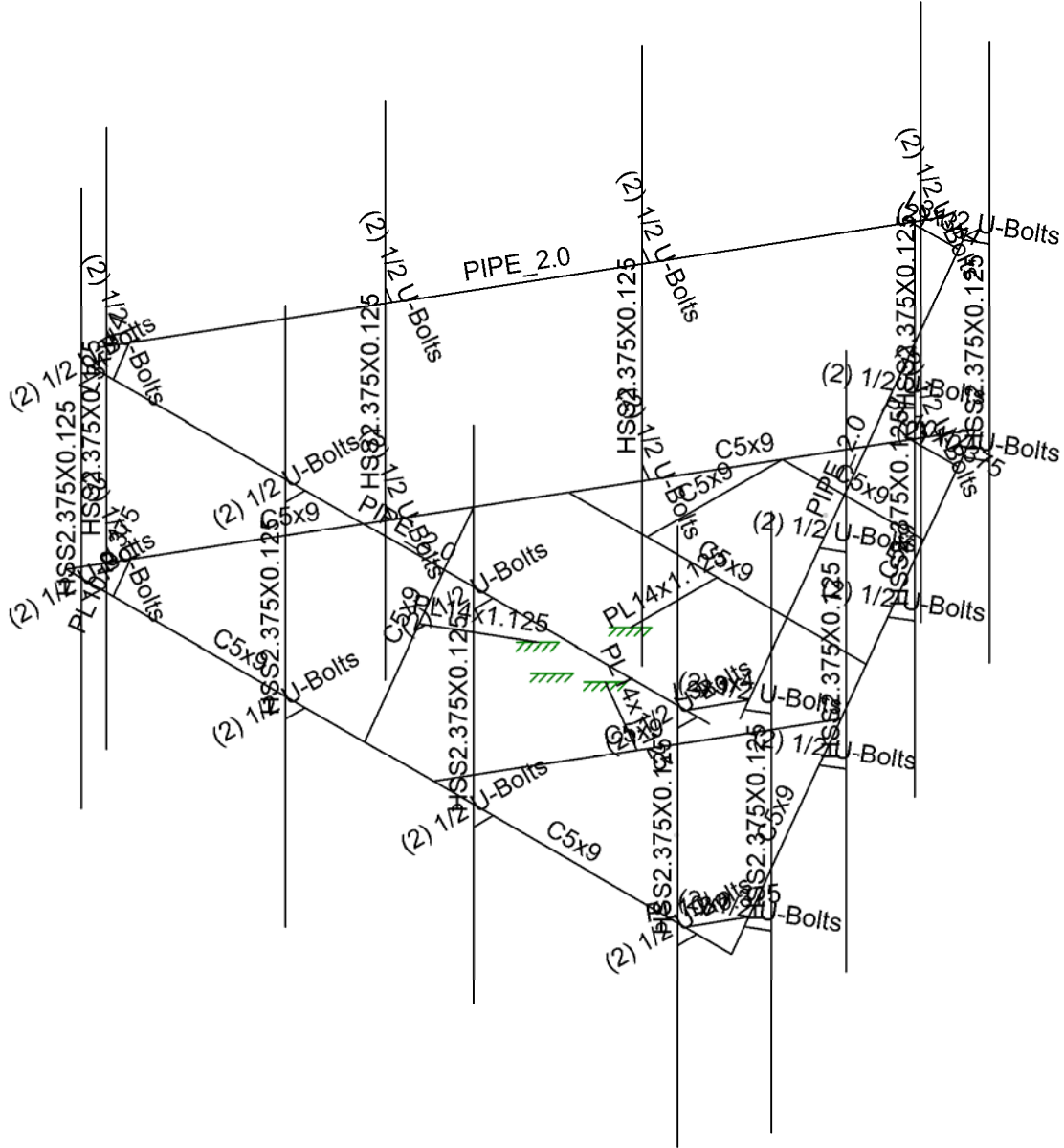
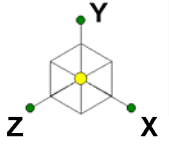
May 1, 2020 at 3:42 PM

R3D. AT&T MOBILITY @ 302506, ...



American Tower Corp.	302506, Winchester CT 3	SK - 7
Rohith.Koduru		May 1, 2020 at 3:43 PM
13201995_C8_01		R3D. AT&T MOBILITY @ 302506, ...

Member Labels



American Tower Corp.

Rohith.Koduru

13201995_C8_01

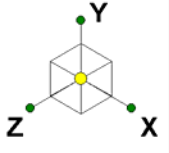
302506, Winchester CT 3

Member Shapes

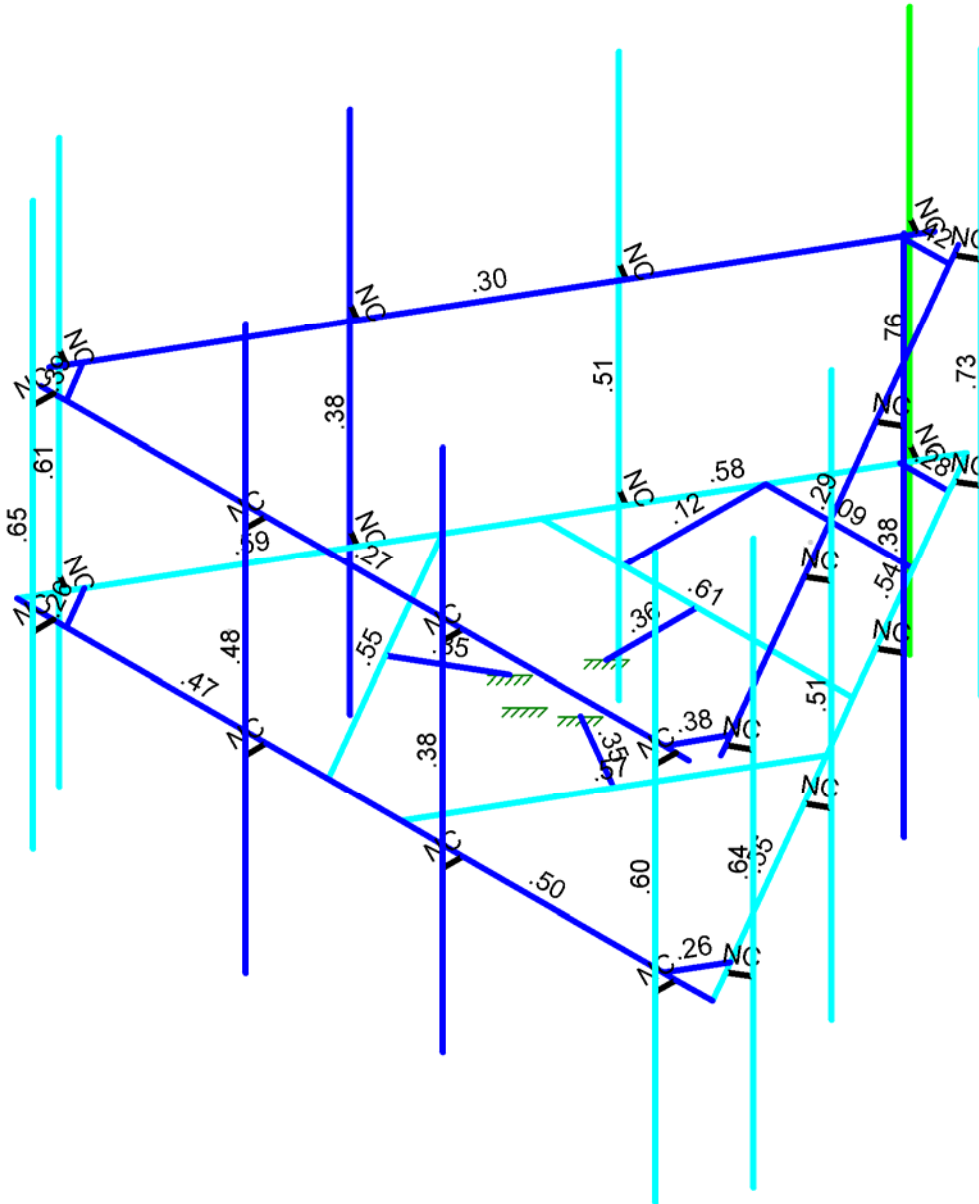
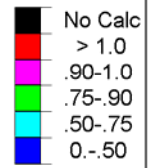
SK - 8

May 1, 2020 at 3:43 PM

R3D. AT&T MOBILITY @ 302506, ...

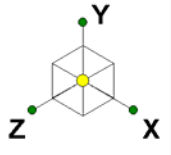


Code Check
(Env)



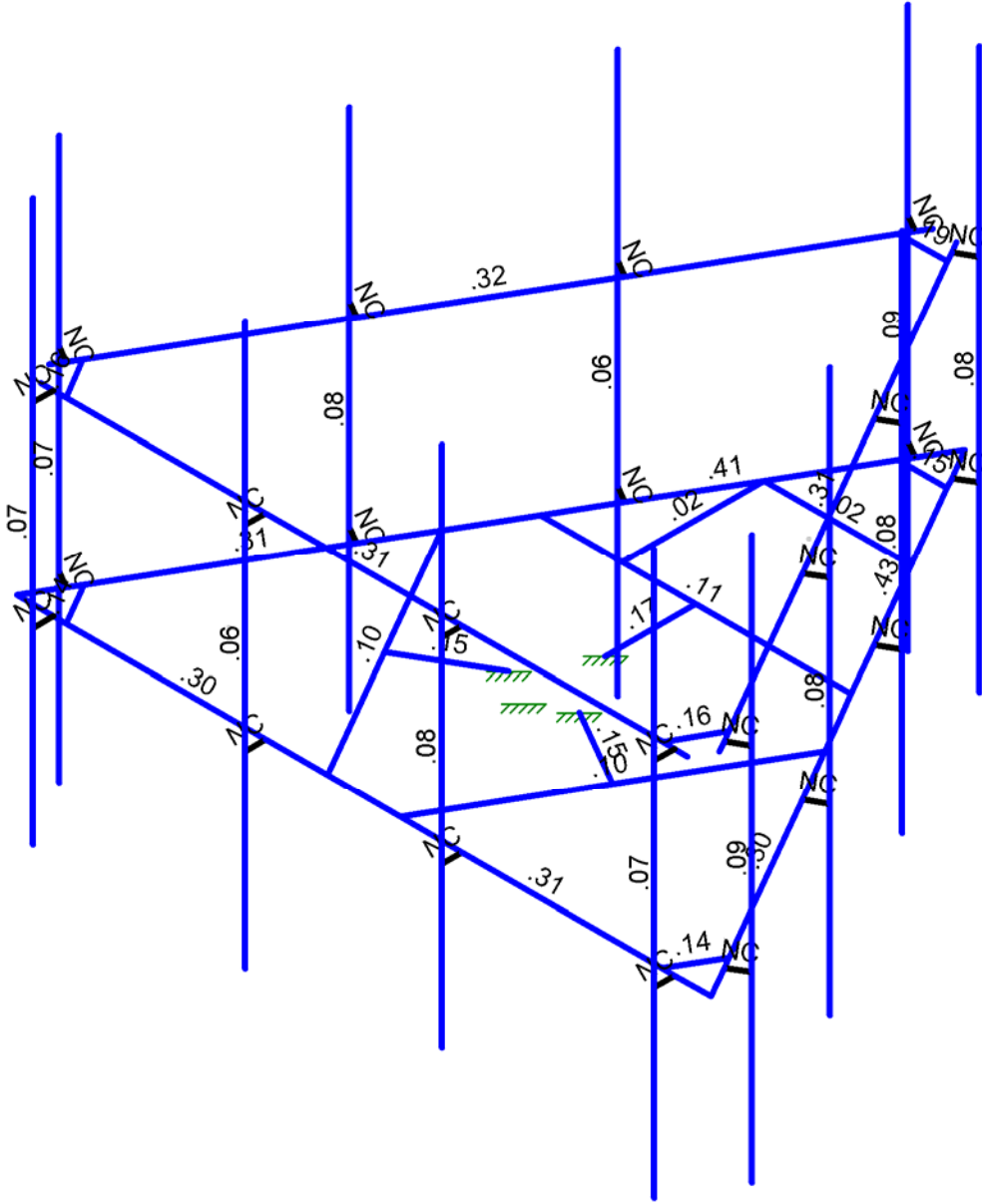
Member Code Checks Displayed (Enveloped)
Results for LC 1, 1.4D

American Tower Corp.	302506, Winchester CT 3 Unity Bending Checks	SK - 9
Rohith.Koduru		May 1, 2020 at 3:43 PM
13201995_C8_01		R3D. AT&T MOBILITY @ 302506, ...



Shear Check (Env)

- █ No Calc
- █ > 1.0
- █ .90-1.0
- █ .75-.90
- █ .50-.75
- █ 0.-.50



Member Shear Checks Displayed (Enveloped)
Results for LC 1, 1.4D

American Tower Corp.	302506, Winchester CT 3	SK - 10
Rohith.Koduru		May 1, 2020 at 3:43 PM
13201995_C8_01		R3D. AT&T MOBILITY @ 302506, ...

Shear Checks



Company : American Tower Corp.
 Designer : Rohith.Koduru
 Job Number : 13201995_C8_01
 Model Name : 302506, Winchester CT 3

May 1, 2020
 3:44 PM
 Checked By: -

Joint Coordinates and Temperatures

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
1	N001	84	84	96	0	
2	N002	84	84	15	0	
3	N003	20.347133	84	125.25	0	
4	N004	147.652867	84	125.25	0	
5	N005	84	84	125.25	0	
6	N006	115.826434	84	70.125	0	
7	N007	52.173566	84	70.125	0	
8	N008	138.652867	84	125.25	0	
9	N009	88.5	84	22.794229	0	
10	N010	24.847133	84	117.455771	0	
11	N011	29.347133	84	125.25	0	
12	N012	143.152867	84	117.455771	0	
13	N013	79.5	84	22.794229	0	
14	N014	90.652867	84	125.25	0	
15	N015	112.5	84	64.363448	0	
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17	N017	77.347133	84	125.25	0	
18	N018	119.152867	84	75.886552	0	
19	N019	55.5	84	64.363448	0	
20	N020	70.5	84	38.382686	0	
21	N021	97.5	84	38.382686	0	
22	N022	70.5	84	64.363448	0	
23	N023	84	84	64.363448	0	
24	N024	63.097133	84	100.568276	0	
25	N025	104.902867	84	100.568276	0	
26	N026	84	84	81	0	
27	N027	77.504809	84	92.25	0	
28	N028	90.495191	84	92.25	0	
29	N029	24.652867	120	125.25	0	
30	N030	145.5	120	121.521125	0	
31	N031	81.847133	120	18.728875	0	
32	N032	86.152867	120	18.728875	0	
33	N033	22.5	120	121.521125	0	
34	N034	143.347133	120	125.25	0	
35	N035	138.847133	120	125.25	0	
36	N036	88.402867	120	22.62599	0	
37	N037	24.75	120	117.62401	0	
38	N038	29.347133	120	125.25	0	
39	N039	143.152867	120	117.455771	0	
40	N040	79.5	120	22.794229	0	
41	N041	141	84	129	0	
42	N042	102	84	129	0	
43	N043	66	84	129	0	
44	N044	27	84	129	0	
45	N045	90.574029	84	18.886552	0	
46	N046	20.425971	84	117.613448	0	
47	N047	110.074029	84	52.661543	0	
48	N048	39.925971	84	83.838457	0	
49	N049	128.074029	84	83.838457	0	
50	N050	57.925971	84	52.661543	0	
51	N051	147.574029	84	117.613448	0	



Company : American Tower Corp.
 Designer : Rohith.Koduru
 Job Number : 13201995_C8_01
 Model Name : 302506, Winchester CT 3

May 1, 2020
 3:44 PM
 Checked By: -

Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
52	N052	77.425971	84	18.886552	0	
53	N053	141	84	125.25	0	
54	N054	141	120	129	0	
55	N055	141	120	125.25	0	
56	N056	102	84	125.25	0	
57	N057	102	120	129	0	
58	N058	102	120	125.25	0	
59	N059	66	84	125.25	0	
60	N060	27	84	125.25	0	
61	N061	23.673566	84	119.488448	0	
62	N062	20.425971	120	117.613448	0	
63	N063	23.673566	120	119.488448	0	
64	N064	43.173566	84	85.713457	0	
65	N065	39.925971	120	83.838457	0	
66	N066	43.173566	120	85.713457	0	
67	N067	61.173566	84	54.536543	0	
68	N068	57.925971	120	52.661543	0	
69	N069	61.173566	120	54.536543	0	
70	N070	80.673566	84	20.761552	0	
71	N071	77.425971	120	18.886552	0	
72	N072	80.673566	120	20.761552	0	
73	N073	87.326434	84	20.761552	0	
74	N074	90.574029	120	18.886552	0	
75	N075	87.326434	120	20.761552	0	
76	N076	106.826434	84	54.536543	0	
77	N077	110.074029	120	52.661543	0	
78	N078	106.826434	120	54.536543	0	
79	N079	124.826434	84	85.713457	0	
80	N080	128.074029	120	83.838457	0	
81	N081	124.826434	120	85.713457	0	
82	N082	144.326434	84	119.488448	0	
83	N083	147.574029	120	117.613448	0	
84	N084	144.326434	120	119.488448	0	
85	MP1t	141	153.5	129	0	
86	MP1b	141	50.5	129	0	
87	MP2t	102	150.75	129	0	
88	MP2b	102	54.75	129	0	
89	MP3t	66	152.5	129	0	
90	MP3b	66	49.5	129	0	
91	MP4t	27	152.5	129	0	
92	MP4b	27	49.5	129	0	
93	MP5t	90.574029	153.5	18.886552	0	
94	MP5b	90.574029	50.5	18.886552	0	
95	MP6t	20.425971	153.5	117.613448	0	
96	MP6b	20.425971	50.5	117.613448	0	
97	MP7t	110.074029	150.75	52.661543	0	
98	MP7b	110.074029	54.75	52.661543	0	
99	MP8t	39.925971	150.75	83.838457	0	
100	MP8b	39.925971	54.75	83.838457	0	
101	MP9t	128.074029	153.5	83.838457	0	
102	MP9b	128.074029	50.5	83.838457	0	
103	MP10t	57.925971	153.5	52.661543	0	
104	MP10b	57.925971	50.5	52.661543	0	
105	MP11t	147.574029	153.5	117.613448	0	
106	MP11b	147.574029	50.5	117.613448	0	
107	MP12t	77.425971	153.5	18.886552	0	
108	MP12b	77.425971	50.5	18.886552	0	



Company : American Tower Corp.
 Designer : Rohith.Koduru
 Job Number : 13201995_C8_01
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Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
109	NAL1	14.347133	177.5	153	0	
110	NAL2	14.347133	25.5	153	0	
111	NAL3	153.652867	177.5	153	0	
112	NAL4	153.652867	25.5	153	0	
113	NAL5	153.652867	177.5	-9	0	
114	NAL6	153.652867	25.5	-9	0	
115	N115	66	120	129	0	
116	N116	27	120	129	0	
117	N117	66	120	125.25	0	
118	N118	27	120	125.25	0	

Joint Boundary Conditions

	Joint Label	X [lb/in]	Y [lb/in]	Z [lb/in]	X Rot.[k-in/rad]	Y Rot.[k-in/rad]	Z Rot.[k-in/rad]
1	N001	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	N026	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3	N027	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
4	N028	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(de...)	Section/Shape	Type	Design List	Material	Design Rules
1	H001	N004	N005			C5x9	Beam	None	A36	Typical
2	H002	N002	N006			C5x9	Beam	None	A36	Typical
3	H003	N003	N007			C5x9	Beam	None	A36	Typical
4	H004	N003	N005		180	C5x9	Beam	None	A36	Typical
5	H005	N004	N006		180	C5x9	Beam	None	A36	Typical
6	H006	N002	N007		180	C5x9	Beam	None	A36	Typical
7	H007	N008	N012		90	PL10x0.375	Beam	None	A36	Typical
8	H008	N009	N013		90	PL10x0.375	Beam	None	A36	Typical
9	H009	N010	N011		90	PL10x0.375	Beam	None	A36	Typical
10	H010	N014	N018			C5x9	Beam	None	A36	Typical
11	H011	N015	N019			C5x9	Beam	None	A36	Typical
12	H012	N016	N017			C5x9	Beam	None	A36	Typical
13	H013	N021	N020			C5x9	Beam	None	A36	Typical
14	H014	N022	N020			C5x9	Beam	None	A36	Typical
15	H015	N023	N026		90	PL14x1.125	Beam	None	A36	Typical
16	H016	N024	N027		90	PL14x1.125	Beam	None	A36	Typical
17	H017	N025	N028		90	PL14x1.125	Beam	None	A36	Typical
18	H018	N034	N029			PIPE 2.0	Beam	None	A53 Gr. B	Typical
19	H019	N032	N030			PIPE 2.0	Beam	None	A53 Gr. B	Typical
20	H020	N033	N031			PIPE 2.0	Beam	None	A53 Gr. B	Typical
21	H021	N035	N039		90	L3x3x4	Beam	None	A36	Typical
22	H022	N036	N040		90	L3x3x4	Beam	None	A36	Typical
23	H023	N037	N038		90	L3x3x4	Beam	None	A36	Typical
24	U024	N041	N053			(2) 1/2 U-Bolts	Beam	None	A36	Typical
25	U025	N054	N055			(2) 1/2 U-Bolts	Beam	None	A36	Typical
26	U026	N042	N056			(2) 1/2 U-Bolts	Beam	None	A36	Typical
27	U027	N057	N058			(2) 1/2 U-Bolts	Beam	None	A36	Typical
28	U028	N043	N059			(2) 1/2 U-Bolts	Beam	None	A36	Typical
29	U029	N044	N060			(2) 1/2 U-Bolts	Beam	None	A36	Typical
30	U030	N046	N061			(2) 1/2 U-Bolts	Beam	None	A36	Typical
31	U031	N062	N063			(2) 1/2 U-Bolts	Beam	None	A36	Typical
32	U032	N048	N064			(2) 1/2 U-Bolts	Beam	None	A36	Typical
33	U033	N065	N066			(2) 1/2 U-Bolts	Beam	None	A36	Typical
34	U034	N050	N067			(2) 1/2 U-Bolts	Beam	None	A36	Typical



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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(de...	Section/Shape	Type	Design List	Material	Design Rules
35	U035	N068	N069			(2) 1/2 U-Bolts	Beam	None	A36	Typical
36	U036	N052	N070			(2) 1/2 U-Bolts	Beam	None	A36	Typical
37	U037	N071	N072			(2) 1/2 U-Bolts	Beam	None	A36	Typical
38	U038	N045	N073			(2) 1/2 U-Bolts	Beam	None	A36	Typical
39	U039	N074	N075			(2) 1/2 U-Bolts	Beam	None	A36	Typical
40	U040	N047	N076			(2) 1/2 U-Bolts	Beam	None	A36	Typical
41	U041	N077	N078			(2) 1/2 U-Bolts	Beam	None	A36	Typical
42	U042	N049	N079			(2) 1/2 U-Bolts	Beam	None	A36	Typical
43	U043	N080	N081			(2) 1/2 U-Bolts	Beam	None	A36	Typical
44	U044	N051	N082			(2) 1/2 U-Bolts	Beam	None	A36	Typical
45	U045	N083	N084			(2) 1/2 U-Bolts	Beam	None	A36	Typical
46	MP1	MP1t	MP1b			HSS2.375X0...	Column	None	A500 Gr. B [RND]	Typical
47	MP2	MP2t	MP2b			HSS2.375X0...	Column	None	A500 Gr. B [RND]	Typical
48	MP3	MP3t	MP3b			HSS2.375X0...	Column	None	A500 Gr. B [RND]	Typical
49	MP4	MP4t	MP4b			HSS2.375X0...	Column	None	A500 Gr. B [RND]	Typical
50	MP5	MP5t	MP5b			HSS2.375X0...	Column	None	A500 Gr. B [RND]	Typical
51	MP6	MP6t	MP6b			HSS2.375X0...	Column	None	A500 Gr. B [RND]	Typical
52	MP7	MP7t	MP7b			HSS2.375X0...	Column	None	A500 Gr. B [RND]	Typical
53	MP8	MP8t	MP8b			HSS2.375X0...	Column	None	A500 Gr. B [RND]	Typical
54	MP9	MP9t	MP9b			HSS2.375X0...	Column	None	A500 Gr. B [RND]	Typical
55	MP10	MP10t	MP10b			HSS2.375X0...	Column	None	A500 Gr. B [RND]	Typical
56	MP11	MP11t	MP11b			HSS2.375X0...	Column	None	A500 Gr. B [RND]	Typical
57	MP12	MP12t	MP12b			HSS2.375X0...	Column	None	A500 Gr. B [RND]	Typical
58	M58	N115	N117			(2) 1/2 U-Bolts	Beam	None	A36	Typical
59	M59	N116	N118			(2) 1/2 U-Bolts	Beam	None	A36	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	H001						Yes				None
2	H002						Yes				None
3	H003						Yes				None
4	H004						Yes				None
5	H005						Yes				None
6	H006						Yes				None
7	H007						Yes				None
8	H008						Yes				None
9	H009						Yes				None
10	H010						Yes				None
11	H011						Yes				None
12	H012						Yes				None
13	H013						Yes				None
14	H014						Yes				None
15	H015						Yes				None
16	H016						Yes				None
17	H017						Yes				None
18	H018						Yes				None
19	H019						Yes				None
20	H020						Yes				None
21	H021						Yes				None
22	H022						Yes				None
23	H023						Yes				None
24	U024						Yes			Exclude	None
25	U025						Yes			Exclude	None
26	U026						Yes			Exclude	None
27	U027						Yes			Exclude	None



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
28	U028						Yes			Exclude	None
29	U029						Yes			Exclude	None
30	U030						Yes			Exclude	None
31	U031						Yes			Exclude	None
32	U032						Yes			Exclude	None
33	U033						Yes			Exclude	None
34	U034						Yes			Exclude	None
35	U035						Yes			Exclude	None
36	U036						Yes			Exclude	None
37	U037						Yes			Exclude	None
38	U038						Yes			Exclude	None
39	U039						Yes			Exclude	None
40	U040						Yes			Exclude	None
41	U041						Yes			Exclude	None
42	U042						Yes			Exclude	None
43	U043						Yes			Exclude	None
44	U044						Yes			Exclude	None
45	U045						Yes			Exclude	None
46	MP1						Yes	** NA **			None
47	MP2						Yes	** NA **			None
48	MP3						Yes	** NA **			None
49	MP4						Yes	** NA **			None
50	MP5						Yes	** NA **			None
51	MP6						Yes	** NA **			None
52	MP7						Yes	** NA **			None
53	MP8						Yes	** NA **			None
54	MP9						Yes	** NA **			None
55	MP10						Yes	** NA **			None
56	MP11						Yes	** NA **			None
57	MP12						Yes	** NA **			None
58	M58						Yes			Exclude	None
59	M59						Yes			Exclude	None

Hot Rolled Steel Design Parameters

	Label	Shape	Length[in]	Lbyy[in]	Lbzz[in]	Lcomp top[in]	Lcomp bot[in]	L-torq...	Kyy	Kzz	Cb	Function
1	H001	C5x9	63.653						.65	.65		Lateral
2	H002	C5x9	63.653						.65	.65		Lateral
3	H003	C5x9	63.653						.65	.65		Lateral
4	H004	C5x9	63.653						.65	.65		Lateral
5	H005	C5x9	63.653						.65	.65		Lateral
6	H006	C5x9	63.653						.65	.65		Lateral
7	H007	PL10x0.375	9						.65	.65		Lateral
8	H008	PL10x0.375	9						.65	.65		Lateral
9	H009	PL10x0.375	9						.65	.65		Lateral
10	H010	C5x9	57						.65	.65		Lateral
11	H011	C5x9	57						.65	.65		Lateral
12	H012	C5x9	57						.65	.65		Lateral
13	H013	C5x9	27						.65	.65		Lateral
14	H014	C5x9	25.981						.65	.65		Lateral
15	H015	PL14x1.125	16.637						1	1		Lateral
16	H016	PL14x1.125	16.637						1	1		Lateral
17	H017	PL14x1.125	16.637						1	1		Lateral
18	H018	PIPE 2.0	118.694						1	1		Lateral
19	H019	PIPE 2.0	118.694						1	1		Lateral
20	H020	PIPE 2.0	118.694						1	1		Lateral



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Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[in]	Lbyy[in]	Lbzz[in]	Lcomp top[in]	Lcomp bot[in]	L-torq...	Kyy	Kzz	Cb	Function
21	H021	L3x3x4	8.904						.65	.65		Lateral
22	H022	L3x3x4	8.904						.65	.65		Lateral
23	H023	L3x3x4	8.904						.65	.65		Lateral
24	U024	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
25	U025	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
26	U026	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
27	U027	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
28	U028	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
29	U029	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
30	U030	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
31	U031	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
32	U032	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
33	U033	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
34	U034	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
35	U035	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
36	U036	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
37	U037	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
38	U038	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
39	U039	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
40	U040	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
41	U041	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
42	U042	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
43	U043	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
44	U044	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
45	U045	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
46	MP1	HSS2.375X...	103						2.1	2.1		Lateral
47	MP2	HSS2.375X...	96						2.1	2.1		Lateral
48	MP3	HSS2.375X...	103						2.1	2.1		Lateral
49	MP4	HSS2.375X...	103						2.1	2.1		Lateral
50	MP5	HSS2.375X...	103						2.1	2.1		Lateral
51	MP6	HSS2.375X...	103						2.1	2.1		Lateral
52	MP7	HSS2.375X...	96						2.1	2.1		Lateral
53	MP8	HSS2.375X...	96						2.1	2.1		Lateral
54	MP9	HSS2.375X...	103						2.1	2.1		Lateral
55	MP10	HSS2.375X...	103						2.1	2.1		Lateral
56	MP11	HSS2.375X...	103						2.1	2.1		Lateral
57	MP12	HSS2.375X...	103						2.1	2.1		Lateral
58	M58	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral
59	M59	(2) 1/2 U-Bo...	3.75						.5	.5		Lateral

Hot Rolled Steel Properties

	Label	E [psi]	G [psi]	Nu	Therm (/1E...	Density[lb/f...	Yield[psi]	Ry	Fu[psi]	Rt
1	A36	2.9e+7	1.115e+7	.3	.65	490	36000	1.5	58000	1.2
2	A572-50	2.9e+7	1.115e+7	.3	.65	490	50000	1.1	65000	1.1
3	A500 Gr. B [RND]	2.9e+7	1.115e+7	.3	.65	527	42000	1.4	58000	1.3
4	A500 Gr. B [SQR]	2.9e+7	1.115e+7	.3	.65	527	46000	1.4	58000	1.3
5	A500 Gr. C	2.9e+7	1.115e+7	.3	.65	190	46000	1.4	62000	1.3
6	A1085	2.9e+7	1.115e+7	.3	.65	490	50000	1.1	65000	1.1
7	A53 Gr. B	2.9e+7	1.115e+7	.3	.65	490	35000	1.6	60000	1.2
8	A992	2.9e+7	1.115e+7	.3	.65	490	50000	1.1	65000	1.1
9	SAE J429 Gr. 2	2.9e+7	1.115e+7	.3	.65	490	57000	1.1	74000	1.1



Joint Loads and Enforced Displacements (BLC 12 : Lm (1))

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	MP1t	L	Y	-500

Joint Loads and Enforced Displacements (BLC 13 : Lm (2))

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	MP2t	L	Y	-500

Joint Loads and Enforced Displacements (BLC 14 : Lm (3))

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	MP3t	L	Y	-500

Joint Loads and Enforced Displacements (BLC 15 : Lm (4))

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	MP4t	L	Y	-500

Joint Loads and Enforced Displacements (BLC 16 : Lm (5))

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	MP5t	L	Y	-500

Joint Loads and Enforced Displacements (BLC 17 : Lm (6))

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	MP6t	L	Y	-500

Joint Loads and Enforced Displacements (BLC 18 : Lm (7))

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	MP7t	L	Y	-500

Joint Loads and Enforced Displacements (BLC 19 : Lm (8))

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	MP8t	L	Y	-500

Joint Loads and Enforced Displacements (BLC 20 : Lm (9))

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	MP9t	L	Y	-500

Joint Loads and Enforced Displacements (BLC 21 : Lm (10))

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	MP10t	L	Y	-500

Joint Loads and Enforced Displacements (BLC 22 : Lm (11))

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	MP11t	L	Y	-500

Joint Loads and Enforced Displacements (BLC 23 : Lm (12))

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	MP12t	L	Y	-500

Member Point Loads (BLC 1 : Dead)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Y	-27.5	22.3



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Member Point Loads (BLC 1 : Dead) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
2	MP1	Y	-27.5	79.2
3	MP1	Y	-60	50.75
4	MP3	Y	-25.5	21.95
5	MP3	Y	-25.5	79.55
6	MP3	Y	-59.9	38.75
7	MP3	Y	-60	68.75
8	MP4	Y	-39.7	22.25
9	MP4	Y	-39.7	79.25
10	MP4	Y	-71	38.75
11	MP4	Y	-72	62.75
12	MP5	Y	-27.5	22.3
13	MP5	Y	-27.5	79.2
14	MP5	Y	-60	50.75
15	MP6	Y	-27.5	22.3
16	MP6	Y	-27.5	79.2
17	MP6	Y	-60	50.75
18	MP9	Y	-25.5	21.95
19	MP9	Y	-25.5	79.55
20	MP9	Y	-59.9	23.75
21	MP9	Y	-60	50.75
22	MP10	Y	-25.5	21.95
23	MP10	Y	-25.5	79.55
24	MP10	Y	-59.9	23.75
25	MP10	Y	-60	50.75
26	MP11	Y	-39.7	22.25
27	MP11	Y	-39.7	79.2
28	MP11	Y	-71	44.75
29	MP11	Y	-72	62.75
30	MP12	Y	-39.7	22.25
31	MP12	Y	-39.7	79.2
32	MP12	Y	-72	59.75
33	MP12	Y	-71	44.75

Member Point Loads (BLC 2 : Ice)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	Y	-79.091	22.3
2	MP1	Y	-79.091	79.2
3	MP1	Y	-70.97	50.75
4	MP3	Y	-94.023	21.95
5	MP3	Y	-94.023	79.55
6	MP3	Y	-49.388	38.75
7	MP3	Y	-65.078	68.75
8	MP4	Y	-109.56	22.25
9	MP4	Y	-109.56	79.25
10	MP4	Y	-56.998	38.75
11	MP4	Y	-54.357	62.75
12	MP5	Y	-79.091	22.3
13	MP5	Y	-79.091	79.2
14	MP5	Y	-70.97	50.75
15	MP6	Y	-79.091	22.3
16	MP6	Y	-79.091	79.2
17	MP6	Y	-70.97	50.75
18	MP9	Y	-94.023	21.95
19	MP9	Y	-94.023	79.55
20	MP9	Y	-49.388	23.75
21	MP9	Y	-65.078	50.75



Member Point Loads (BLC 2 : Ice) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
22	MP10	Y	-94.023	21.95
23	MP10	Y	-94.023	79.55
24	MP10	Y	-49.388	23.75
25	MP10	Y	-65.078	50.75
26	MP11	Y	-109.56	22.25
27	MP11	Y	-109.56	79.2
28	MP11	Y	-56.998	44.75
29	MP11	Y	-54.357	62.75
30	MP12	Y	-109.56	22.25
31	MP12	Y	-109.56	79.2
32	MP12	Y	-54.357	59.75
33	MP12	Y	-56.998	44.75

Member Point Loads (BLC 3 : Wind -Z)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	Z	-149.933	22.3
2	MP1	Z	-149.933	79.2
3	MP1	Z	-60.064	50.75
4	MP3	Z	-184.447	21.95
5	MP3	Z	-184.447	79.55
6	MP3	Z	-35.189	38.75
7	MP3	Z	-52.38	68.75
8	MP4	Z	-242.728	22.25
9	MP4	Z	-242.728	79.25
10	MP4	Z	-37.604	38.75
11	MP4	Z	-31.302	62.75
12	MP5	Z	-116.125	22.3
13	MP5	Z	-116.125	79.2
14	MP5	Z	-51.292	50.75
15	MP6	Z	-116.125	22.3
16	MP6	Z	-116.125	79.2
17	MP6	Z	-51.292	50.75
18	MP9	Z	-136.88	21.95
19	MP9	Z	-136.88	79.55
20	MP9	Z	-35.106	23.75
21	MP9	Z	-53.78	50.75
22	MP10	Z	-136.88	21.95
23	MP10	Z	-136.88	79.55
24	MP10	Z	-35.106	23.75
25	MP10	Z	-53.78	50.75
26	MP11	Z	-159.006	22.25
27	MP11	Z	-159.285	79.2
28	MP11	Z	-41.993	44.75
29	MP11	Z	-38.036	62.75
30	MP12	Z	-159.006	22.25
31	MP12	Z	-159.285	79.2
32	MP12	Z	-38.036	59.75
33	MP12	My	-9.509	59.75
34	MP12	Z	-41.993	44.75

Member Point Loads (BLC 4 : Wind -X)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	-47.526	22.3
2	MP1	X	-47.526	79.2
3	MP1	X	-49.097	50.75
4	MP3	X	-51.565	21.95



Member Point Loads (BLC 4 : Wind -X) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
5	MP3	X	-51.565	79.55
6	MP3	X	-40.441	38.75
7	MP3	X	-63.715	68.75
8	MP4	X	-43.627	22.25
9	MP4	X	-43.627	79.25
10	MP4	X	-53.558	38.75
11	MP4	X	-51.696	62.75
12	MP5	X	-153.609	22.3
13	MP5	X	-153.609	79.2
14	MP5	X	-128.583	50.75
15	MP6	X	-153.609	22.3
16	MP6	X	-153.609	79.2
17	MP6	X	-128.583	50.75
18	MP9	X	-185.518	21.95
19	MP9	X	-185.518	79.55
20	MP9	X	-81.169	23.75
21	MP9	X	-122.583	50.75
22	MP10	X	-185.518	21.95
23	MP10	X	-185.518	79.55
24	MP10	X	-81.169	23.75
25	MP10	X	-122.583	50.75
26	MP11	X	-231.818	22.25
27	MP11	X	-232.225	79.2
28	MP11	X	-91.912	44.75
29	MP11	X	-80.065	62.75
30	MP12	X	-231.818	22.25
31	MP12	X	-232.225	79.2
32	MP12	Mz	-20.016	59.75
33	MP12	X	-91.912	44.75

Member Point Loads (BLC 5 : Wind -Z (Ice))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP1	Z	-42.104	22.3
2	MP1	Z	-42.104	79.2
3	MP1	Z	-18.096	50.75
4	MP3	Z	-42.326	21.95
5	MP3	Z	-42.326	79.55
6	MP3	Z	-14.184	38.75
7	MP3	Z	-18.27	68.75
8	MP4	Z	-42.566	22.25
9	MP4	Z	-42.566	79.25
10	MP4	Z	-14.706	38.75
11	MP4	Z	-13.402	62.75
12	MP5	Z	-36.53	22.3
13	MP5	Z	-36.53	79.2
14	MP5	Z	-20.673	50.75
15	MP6	Z	-36.53	22.3
16	MP6	Z	-36.53	79.2
17	MP6	Z	-20.673	50.75
18	MP9	Z	-36.923	21.95
19	MP9	Z	-36.923	79.55
20	MP9	Z	-17.23	23.75
21	MP9	Z	-23.751	50.75
22	MP10	Z	-36.923	21.95
23	MP10	Z	-36.923	79.55
24	MP10	Z	-17.23	23.75



Company : American Tower Corp.
 Designer : Rohith.Koduru
 Job Number : 13201995_C8_01
 Model Name : 302506, Winchester CT 3

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Member Point Loads (BLC 5 : Wind -Z (Ice)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
25	MP10	Z	-23.751	50.75
26	MP11	Z	-36.616	22.25
27	MP11	Z	-36.68	79.2
28	MP11	Z	-18.658	44.75
29	MP11	Z	-17.441	62.75
30	MP12	Z	-36.616	22.25
31	MP12	Z	-36.68	79.2
32	MP12	My	-4.36	59.75
33	MP12	Z	-18.658	44.75

Member Point Loads (BLC 6 : Wind -X (Ice))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
1	MP1	X	-17.872	22.3
2	MP1	X	-17.872	79.2
3	MP1	X	-26.847	50.75
4	MP3	X	-18.198	21.95
5	MP3	X	-18.198	79.55
6	MP3	X	-23.413	38.75
7	MP3	X	-33.754	68.75
8	MP4	X	-17.742	22.25
9	MP4	X	-17.742	79.25
10	MP4	X	-26.108	38.75
11	MP4	X	-24.804	62.75
12	MP5	X	-45.399	22.3
13	MP5	X	-45.399	79.2
14	MP5	X	-44.767	50.75
15	MP6	X	-45.399	22.3
16	MP6	X	-45.399	79.2
17	MP6	X	-44.767	50.75
18	MP9	X	-45.755	21.95
19	MP9	X	-45.755	79.55
20	MP9	X	-36.274	23.75
21	MP9	X	-48.522	50.75
22	MP10	X	-45.755	21.95
23	MP10	X	-45.755	79.55
24	MP10	X	-36.274	23.75
25	MP10	X	-48.522	50.75
26	MP11	X	-45.694	22.25
27	MP11	X	-45.774	79.2
28	MP11	X	-38.525	44.75
29	MP11	X	-35.614	62.75
30	MP12	X	-45.694	22.25
31	MP12	X	-45.774	79.2
32	MP12	Mz	-8.904	59.75
33	MP12	X	-38.525	44.75

Member Point Loads (BLC 7 : Wind -Z (Working))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
1	MP1	Z	-8.776	22.3
2	MP1	Z	-8.776	79.2
3	MP1	Z	-3.516	50.75
4	MP3	Z	-10.796	21.95
5	MP3	Z	-10.796	79.55
6	MP3	Z	-2.06	38.75
7	MP3	Z	-3.066	68.75
8	MP4	Z	-14.208	22.25



Member Point Loads (BLC 7 : Wind -Z (Working)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
9	MP4	Z	-14.208	79.25
10	MP4	Z	-2.201	38.75
11	MP4	Z	-1.832	62.75
12	MP5	Z	-6.797	22.3
13	MP5	Z	-6.797	79.2
14	MP5	Z	-3.002	50.75
15	MP6	Z	-6.797	22.3
16	MP6	Z	-6.797	79.2
17	MP6	Z	-3.002	50.75
18	MP9	Z	-8.012	21.95
19	MP9	Z	-8.012	79.55
20	MP9	Z	-2.055	23.75
21	MP9	Z	-3.148	50.75
22	MP10	Z	-8.012	21.95
23	MP10	Z	-8.012	79.55
24	MP10	Z	-2.055	23.75
25	MP10	Z	-3.148	50.75
26	MP11	Z	-9.307	22.25
27	MP11	Z	-9.323	79.2
28	MP11	Z	-2.458	44.75
29	MP11	Z	-2.226	62.75
30	MP12	Z	-9.307	22.25
31	MP12	Z	-9.323	79.2
32	MP12	My	-.557	59.75
33	MP12	Z	-2.458	44.75

Member Point Loads (BLC 8 : Wind -X (Working))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
1	MP1	X	-2.782	22.3
2	MP1	X	-2.782	79.2
3	MP1	X	-2.874	50.75
4	MP3	X	-3.018	21.95
5	MP3	X	-3.018	79.55
6	MP3	X	-2.367	38.75
7	MP3	X	-3.729	68.75
8	MP4	X	-2.554	22.25
9	MP4	X	-2.554	79.25
10	MP4	X	-3.135	38.75
11	MP4	X	-3.026	62.75
12	MP5	X	-8.991	22.3
13	MP5	X	-8.991	79.2
14	MP5	X	-7.526	50.75
15	MP6	X	-8.991	22.3
16	MP6	X	-8.991	79.2
17	MP6	X	-7.526	50.75
18	MP9	X	-10.859	21.95
19	MP9	X	-10.859	79.55
20	MP9	X	-4.751	23.75
21	MP9	X	-7.175	50.75
22	MP10	X	-10.859	21.95
23	MP10	X	-10.859	79.55
24	MP10	X	-4.751	23.75
25	MP10	X	-7.175	50.75
26	MP11	X	-13.569	22.25
27	MP11	X	-13.593	79.2
28	MP11	X	-5.38	44.75



Member Point Loads (BLC 8 : Wind -X (Working)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
29	MP11	X	-4.686	62.75
30	MP12	X	-13.569	22.25
31	MP12	X	-13.593	79.2
32	MP12	Mz	-1.172	59.75
33	MP12	X	-5.38	44.75

Member Distributed Loads (BLC 2 : Ice)

	Member Label	Direction	Start Magnitude[lb/ft, ...]	End Magnitude[lb/ft, ...]	Start Location[in, %]	End Location[in, %]
1	H001	Y	-11.172	-11.172	0	%100
2	H002	Y	-11.172	-11.172	0	%100
3	H003	Y	-11.172	-11.172	0	%100
4	H004	Y	-11.172	-11.172	0	%100
5	H005	Y	-11.172	-11.172	0	%100
6	H006	Y	-11.172	-11.172	0	%100
7	H007	Y	-3.457	-3.457	0	%100
8	H008	Y	-3.457	-3.457	0	%100
9	H009	Y	-3.457	-3.457	0	%100
10	H010	Y	-11.172	-11.172	0	%100
11	H011	Y	-11.172	-11.172	0	%100
12	H012	Y	-11.172	-11.172	0	%100
13	H013	Y	-11.172	-11.172	0	%100
14	H014	Y	-11.172	-11.172	0	%100
15	H015	Y	-2.887	-2.887	0	%100
16	H016	Y	-2.887	-2.887	0	%100
17	H017	Y	-2.887	-2.887	0	%100
18	H018	Y	-6.092	-6.092	0	%100
19	H019	Y	-6.092	-6.092	0	%100
20	H020	Y	-6.092	-6.092	0	%100
21	H021	Y	-2.635	-2.635	0	%100
22	H022	Y	-2.635	-2.635	0	%100
23	H023	Y	-2.635	-2.635	0	%100
24	MP1	Y	-6.092	-6.092	0	%100
25	MP2	Y	-6.092	-6.092	0	%100
26	MP3	Y	-6.092	-6.092	0	%100
27	MP4	Y	-6.092	-6.092	0	%100
28	MP5	Y	-6.092	-6.092	0	%100
29	MP6	Y	-6.092	-6.092	0	%100
30	MP7	Y	-6.092	-6.092	0	%100
31	MP8	Y	-6.092	-6.092	0	%100
32	MP9	Y	-6.092	-6.092	0	%100
33	MP10	Y	-6.092	-6.092	0	%100
34	MP11	Y	-6.092	-6.092	0	%100
35	MP12	Y	-6.092	-6.092	0	%100

Member Distributed Loads (BLC 5 : Wind -Z (Ice))

	Member Label	Direction	Start Magnitude[lb/ft, ...]	End Magnitude[lb/ft, ...]	Start Location[in, %]	End Location[in, %]
1	H001	Z	-1.885	-1.885	0	%100
2	H002	Z	-1.885	-1.885	0	%100
3	H003	Z	-1.885	-1.885	0	%100
4	H004	Z	-1.885	-1.885	0	%100
5	H005	Z	-1.885	-1.885	0	%100
6	H006	Z	-1.885	-1.885	0	%100
7	H007	Z	-1.885	-1.885	0	%100
8	H008	Z	-1.885	-1.885	0	%100
9	H009	Z	-1.885	-1.885	0	%100



Member Distributed Loads (BLC 5 : Wind -Z (Ice)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
10	H010	Z	-1.885	-1.885	0	%100
11	H011	Z	-1.885	-1.885	0	%100
12	H012	Z	-1.885	-1.885	0	%100
13	H013	Z	-1.885	-1.885	0	%100
14	H014	Z	-1.885	-1.885	0	%100
15	H015	Z	-1.885	-1.885	0	%100
16	H016	Z	-1.885	-1.885	0	%100
17	H017	Z	-1.885	-1.885	0	%100
18	H018	Z	-1.885	-1.885	0	%100
19	H019	Z	-1.885	-1.885	0	%100
20	H020	Z	-1.885	-1.885	0	%100
21	H021	Z	-1.885	-1.885	0	%100
22	H022	Z	-1.885	-1.885	0	%100
23	H023	Z	-1.885	-1.885	0	%100
24	MP1	Z	-1.885	-1.885	0	%100
25	MP2	Z	-1.885	-1.885	0	%100
26	MP3	Z	-1.885	-1.885	0	%100
27	MP4	Z	-1.885	-1.885	0	%100
28	MP5	Z	-1.885	-1.885	0	%100
29	MP6	Z	-1.885	-1.885	0	%100
30	MP7	Z	-1.885	-1.885	0	%100
31	MP8	Z	-1.885	-1.885	0	%100
32	MP9	Z	-1.885	-1.885	0	%100
33	MP10	Z	-1.885	-1.885	0	%100
34	MP11	Z	-1.885	-1.885	0	%100
35	MP12	Z	-1.885	-1.885	0	%100

Member Distributed Loads (BLC 6 : Wind -X (Ice))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	H001	X	-1.885	-1.885	0	%100
2	H002	X	-1.885	-1.885	0	%100
3	H003	X	-1.885	-1.885	0	%100
4	H004	X	-1.885	-1.885	0	%100
5	H005	X	-1.885	-1.885	0	%100
6	H006	X	-1.885	-1.885	0	%100
7	H007	X	-1.885	-1.885	0	%100
8	H008	X	-1.885	-1.885	0	%100
9	H009	X	-1.885	-1.885	0	%100
10	H010	X	-1.885	-1.885	0	%100
11	H011	X	-1.885	-1.885	0	%100
12	H012	X	-1.885	-1.885	0	%100
13	H013	X	-1.885	-1.885	0	%100
14	H014	X	-1.885	-1.885	0	%100
15	H015	X	-1.885	-1.885	0	%100
16	H016	X	-1.885	-1.885	0	%100
17	H017	X	-1.885	-1.885	0	%100
18	H018	X	-1.885	-1.885	0	%100
19	H019	X	-1.885	-1.885	0	%100
20	H020	X	-1.885	-1.885	0	%100
21	H021	X	-1.885	-1.885	0	%100
22	H022	X	-1.885	-1.885	0	%100
23	H023	X	-1.885	-1.885	0	%100
24	MP1	X	-1.885	-1.885	0	%100
25	MP2	X	-1.885	-1.885	0	%100
26	MP3	X	-1.885	-1.885	0	%100
27	MP4	X	-1.885	-1.885	0	%100



Member Distributed Loads (BLC 6 : Wind -X (Ice)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,...]	Start Location[in, %]	End Location[in, %]
28	MP5	X	-1.885	-1.885	0	%100
29	MP6	X	-1.885	-1.885	0	%100
30	MP7	X	-1.885	-1.885	0	%100
31	MP8	X	-1.885	-1.885	0	%100
32	MP9	X	-1.885	-1.885	0	%100
33	MP10	X	-1.885	-1.885	0	%100
34	MP11	X	-1.885	-1.885	0	%100
35	MP12	X	-1.885	-1.885	0	%100

Member Distributed Loads (BLC 9 : Ev -Y (Seismic))

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,...]	Start Location[in, %]	End Location[in, %]
1	H001	Y	-45	-45	0	%100
2	H002	Y	-45	-45	0	%100
3	H003	Y	-45	-45	0	%100
4	H004	Y	-45	-45	0	%100
5	H005	Y	-45	-45	0	%100
6	H006	Y	-45	-45	0	%100
7	H007	Y	-45	-45	0	%100
8	H008	Y	-45	-45	0	%100
9	H009	Y	-45	-45	0	%100
10	H010	Y	-45	-45	0	%100
11	H011	Y	-45	-45	0	%100
12	H012	Y	-45	-45	0	%100
13	H013	Y	-45	-45	0	%100
14	H014	Y	-45	-45	0	%100
15	H015	Y	-45	-45	0	%100
16	H016	Y	-45	-45	0	%100
17	H017	Y	-45	-45	0	%100
18	H018	Y	-45	-45	0	%100
19	H019	Y	-45	-45	0	%100
20	H020	Y	-45	-45	0	%100
21	H021	Y	-45	-45	0	%100
22	H022	Y	-45	-45	0	%100
23	H023	Y	-45	-45	0	%100
24	MP1	Y	-45	-45	0	%100
25	MP2	Y	-45	-45	0	%100
26	MP3	Y	-45	-45	0	%100
27	MP4	Y	-45	-45	0	%100
28	MP5	Y	-45	-45	0	%100
29	MP6	Y	-45	-45	0	%100
30	MP7	Y	-45	-45	0	%100
31	MP8	Y	-45	-45	0	%100
32	MP9	Y	-45	-45	0	%100
33	MP10	Y	-45	-45	0	%100
34	MP11	Y	-45	-45	0	%100
35	MP12	Y	-45	-45	0	%100

Member Distributed Loads (BLC 10 : Eh -Z (Seismic))

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,...]	Start Location[in, %]	End Location[in, %]
1	H001	Z	-1.407	-1.407	0	%100
2	H002	Z	-1.407	-1.407	0	%100
3	H003	Z	-1.407	-1.407	0	%100
4	H004	Z	-1.407	-1.407	0	%100
5	H005	Z	-1.407	-1.407	0	%100
6	H006	Z	-1.407	-1.407	0	%100
7	H007	Z	-1.407	-1.407	0	%100



Company : American Tower Corp.
 Designer : Rohith.Koduru
 Job Number : 13201995_C8_01
 Model Name : 302506, Winchester CT 3

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Member Distributed Loads (BLC 10 : Eh -Z (Seismic)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,...]	Start Location[in,%]	End Location[in,%]
8	H008	Z	-1.407	-1.407	0	%100
9	H009	Z	-1.407	-1.407	0	%100
10	H010	Z	-1.407	-1.407	0	%100
11	H011	Z	-1.407	-1.407	0	%100
12	H012	Z	-1.407	-1.407	0	%100
13	H013	Z	-1.407	-1.407	0	%100
14	H014	Z	-1.407	-1.407	0	%100
15	H015	Z	-1.407	-1.407	0	%100
16	H016	Z	-1.407	-1.407	0	%100
17	H017	Z	-1.407	-1.407	0	%100
18	H018	Z	-1.407	-1.407	0	%100
19	H019	Z	-1.407	-1.407	0	%100
20	H020	Z	-1.407	-1.407	0	%100
21	H021	Z	-1.407	-1.407	0	%100
22	H022	Z	-1.407	-1.407	0	%100
23	H023	Z	-1.407	-1.407	0	%100
24	MP1	Z	-1.407	-1.407	0	%100
25	MP2	Z	-1.407	-1.407	0	%100
26	MP3	Z	-1.407	-1.407	0	%100
27	MP4	Z	-1.407	-1.407	0	%100
28	MP5	Z	-1.407	-1.407	0	%100
29	MP6	Z	-1.407	-1.407	0	%100
30	MP7	Z	-1.407	-1.407	0	%100
31	MP8	Z	-1.407	-1.407	0	%100
32	MP9	Z	-1.407	-1.407	0	%100
33	MP10	Z	-1.407	-1.407	0	%100
34	MP11	Z	-1.407	-1.407	0	%100
35	MP12	Z	-1.407	-1.407	0	%100

Member Distributed Loads (BLC 11 : Eh -X (Seismic))

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,...]	Start Location[in,%]	End Location[in,%]
1	H001	X	-1.407	-1.407	0	%100
2	H002	X	-1.407	-1.407	0	%100
3	H003	X	-1.407	-1.407	0	%100
4	H004	X	-1.407	-1.407	0	%100
5	H005	X	-1.407	-1.407	0	%100
6	H006	X	-1.407	-1.407	0	%100
7	H007	X	-1.407	-1.407	0	%100
8	H008	X	-1.407	-1.407	0	%100
9	H009	X	-1.407	-1.407	0	%100
10	H010	X	-1.407	-1.407	0	%100
11	H011	X	-1.407	-1.407	0	%100
12	H012	X	-1.407	-1.407	0	%100
13	H013	X	-1.407	-1.407	0	%100
14	H014	X	-1.407	-1.407	0	%100
15	H015	X	-1.407	-1.407	0	%100
16	H016	X	-1.407	-1.407	0	%100
17	H017	X	-1.407	-1.407	0	%100
18	H018	X	-1.407	-1.407	0	%100
19	H019	X	-1.407	-1.407	0	%100
20	H020	X	-1.407	-1.407	0	%100
21	H021	X	-1.407	-1.407	0	%100
22	H022	X	-1.407	-1.407	0	%100
23	H023	X	-1.407	-1.407	0	%100
24	MP1	X	-1.407	-1.407	0	%100
25	MP2	X	-1.407	-1.407	0	%100



Company : American Tower Corp.
 Designer : Rohith.Koduru
 Job Number : 13201995_C8_01
 Model Name : 302506, Winchester CT 3

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Member Distributed Loads (BLC 11 : Eh -X (Seismic)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
26	MP3	X	-1.407	-1.407	0 %100
27	MP4	X	-1.407	-1.407	0 %100
28	MP5	X	-1.407	-1.407	0 %100
29	MP6	X	-1.407	-1.407	0 %100
30	MP7	X	-1.407	-1.407	0 %100
31	MP8	X	-1.407	-1.407	0 %100
32	MP9	X	-1.407	-1.407	0 %100
33	MP10	X	-1.407	-1.407	0 %100
34	MP11	X	-1.407	-1.407	0 %100
35	MP12	X	-1.407	-1.407	0 %100

Member Distributed Loads (BLC 24 : BLC 3 Transient Area Loads)

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
1	H001	Z	-19.098	-19.098	0 63.653
2	H002	Z	-9.549	-9.549	0 63.653
3	H003	Z	-9.549	-9.549	0 63.653
4	H004	Z	-19.098	-19.098	0 63.653
5	H005	Z	-9.549	-9.549	0 63.653
6	H006	Z	-9.549	-9.549	0 63.653
7	H007	Z	-.716	-.716	0 9
8	H008	Z	-1.432	-1.432	0 9
9	H009	Z	-.716	-.716	0 9
10	H010	Z	-9.549	-9.549	0 57
11	H011	Z	-19.098	-19.098	0 57
12	H012	Z	-9.549	-9.549	0 57
13	H013	Z	-19.098	-19.098	0 27
14	H016	Z	-3.721	-3.721	0 16.637
15	H017	Z	-3.721	-3.721	0 16.637
16	H018	Z	-9.072	-9.072	0 118.694
17	H019	Z	-4.536	-4.536	0 118.694
18	H020	Z	-4.536	-4.536	0 118.694
19	H021	Z	-5.541	-5.541	0 8.904
20	H022	Z	-11.457	-11.457	0 8.904
21	H023	Z	-5.916	-5.916	0 8.904
22	U030	Z	-3.308	-3.308	0 3.75
23	U031	Z	-3.308	-3.308	0 3.75
24	U032	Z	-3.308	-3.308	0 3.75
25	U033	Z	-3.308	-3.308	0 3.75
26	U034	Z	-3.308	-3.308	0 3.75
27	U035	Z	-3.308	-3.308	0 3.75
28	U036	Z	-3.308	-3.308	0 3.75
29	U037	Z	-3.308	-3.308	0 3.75
30	U038	Z	-3.308	-3.308	0 3.75
31	U039	Z	-3.308	-3.308	0 3.75
32	U040	Z	-3.308	-3.308	0 3.75
33	U041	Z	-3.308	-3.308	0 3.75
34	U042	Z	-3.308	-3.308	0 3.75
35	U043	Z	-3.308	-3.308	0 3.75
36	U044	Z	-3.308	-3.308	0 3.75
37	U045	Z	-3.308	-3.308	0 3.75
38	MP1	Z	-9.091	-9.091	0 103
39	MP2	Z	-9.091	-9.091	0 96
40	MP3	Z	-9.091	-9.091	0 103
41	MP4	Z	-9.091	-9.091	0 103
42	MP5	Z	-9.091	-9.091	0 103
43	MP6	Z	-9.091	-9.091	0 103



Company : American Tower Corp.
 Designer : Rohith.Koduru
 Job Number : 13201995_C8_01
 Model Name : 302506, Winchester CT 3

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Member Distributed Loads (BLC 24 : BLC 3 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
44	MP7	Z	-9.091	-9.091	0	96
45	MP8	Z	-9.091	-9.091	0	96
46	MP9	Z	-9.091	-9.091	0	103
47	MP10	Z	-9.091	-9.091	0	103
48	MP11	Z	-9.091	-9.091	0	103
49	MP12	Z	-9.091	-9.091	0	103

Member Distributed Loads (BLC 25 : BLC 4 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
1	H002	X	-16.54	-16.54	0	63.653
2	H003	X	-16.54	-16.54	0	63.653
3	H005	X	-16.54	-16.54	0	63.653
4	H006	X	-16.54	-16.54	0	63.653
5	H007	X	-1.24	-1.24	0	9
6	H009	X	-1.24	-1.24	0	9
7	H010	X	-16.54	-16.54	0	57
8	H012	X	-16.54	-16.54	0	57
9	H014	X	-19.098	-19.098	0	25.981
10	H015	X	-4.297	-4.297	0	16.637
11	H016	X	-2.149	-2.149	0	16.637
12	H017	X	-2.149	-2.149	0	16.637
13	H019	X	-7.856	-7.856	0	118.694
14	H020	X	-7.856	-7.856	0	118.694
15	H021	X	-10.03	-10.03	0	8.904
16	H022	X	-.217	-.217	0	8.904
17	H023	X	-9.814	-9.814	0	8.904
18	U024	X	-3.82	-3.82	0	3.75
19	U025	X	-3.82	-3.82	0	3.75
20	U026	X	-3.82	-3.82	0	3.75
21	U027	X	-3.82	-3.82	0	3.75
22	U028	X	-3.82	-3.82	0	3.75
23	U029	X	-3.82	-3.82	0	3.75
24	U030	X	-1.91	-1.91	0	3.75
25	U031	X	-1.91	-1.91	0	3.75
26	U032	X	-1.91	-1.91	0	3.75
27	U033	X	-1.91	-1.91	0	3.75
28	U034	X	-1.91	-1.91	0	3.75
29	U035	X	-1.91	-1.91	0	3.75
30	U036	X	-1.91	-1.91	0	3.75
31	U037	X	-1.91	-1.91	0	3.75
32	U038	X	-1.91	-1.91	0	3.75
33	U039	X	-1.91	-1.91	0	3.75
34	U040	X	-1.91	-1.91	0	3.75
35	U041	X	-1.91	-1.91	0	3.75
36	U042	X	-1.91	-1.91	0	3.75
37	U043	X	-1.91	-1.91	0	3.75
38	U044	X	-1.91	-1.91	0	3.75
39	U045	X	-1.91	-1.91	0	3.75
40	MP1	X	-9.091	-9.091	0	103
41	MP2	X	-9.091	-9.091	0	96
42	MP3	X	-9.091	-9.091	0	103
43	MP4	X	-9.091	-9.091	0	103
44	MP5	X	-9.091	-9.091	0	103
45	MP6	X	-9.091	-9.091	0	103
46	MP7	X	-9.091	-9.091	0	96
47	MP8	X	-9.091	-9.091	0	96



Company : American Tower Corp.
 Designer : Rohith.Koduru
 Job Number : 13201995_C8_01
 Model Name : 302506, Winchester CT 3

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Member Distributed Loads (BLC 25 : BLC 4 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in,%]	End Location[in,%]
48	MP9	X	-9.091	-9.091	0	103
49	MP10	X	-9.091	-9.091	0	103
50	MP11	X	-9.091	-9.091	0	103
51	MP12	X	-9.091	-9.091	0	103
52	M58	X	-3.82	-3.82	0	3.75
53	M59	X	-3.82	-3.82	0	3.75

Member Distributed Loads (BLC 26 : BLC 5 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in,%]	End Location[in,%]
1	H001	Z	-3.105	-3.105	0	63.653
2	H002	Z	-1.552	-1.552	0	63.653
3	H003	Z	-1.553	-1.553	0	63.653
4	H004	Z	-3.105	-3.105	0	63.653
5	H005	Z	-1.552	-1.552	0	63.653
6	H006	Z	-1.553	-1.553	0	63.653
7	H007	Z	-.116	-.116	0	9
8	H008	Z	-.233	-.233	0	9
9	H009	Z	-.116	-.116	0	9
10	H010	Z	-1.552	-1.552	0	57
11	H011	Z	-3.105	-3.105	0	57
12	H012	Z	-1.552	-1.552	0	57
13	H013	Z	-3.105	-3.105	0	27
14	H016	Z	-.605	-.605	0	16.637
15	H017	Z	-.605	-.605	0	16.637
16	H018	Z	-1.475	-1.475	0	118.694
17	H019	Z	-.737	-.737	0	118.694
18	H020	Z	-.737	-.737	0	118.694
19	H021	Z	-.901	-.901	0	8.904
20	H022	Z	-1.863	-1.863	0	8.904
21	H023	Z	-.962	-.962	0	8.904
22	U030	Z	-.538	-.538	0	3.75
23	U031	Z	-.538	-.538	0	3.75
24	U032	Z	-.538	-.538	0	3.75
25	U033	Z	-.538	-.538	0	3.75
26	U034	Z	-.538	-.538	0	3.75
27	U035	Z	-.538	-.538	0	3.75
28	U036	Z	-.538	-.538	0	3.75
29	U037	Z	-.538	-.538	0	3.75
30	U038	Z	-.538	-.538	0	3.75
31	U039	Z	-.538	-.538	0	3.75
32	U040	Z	-.538	-.538	0	3.75
33	U041	Z	-.538	-.538	0	3.75
34	U042	Z	-.538	-.538	0	3.75
35	U043	Z	-.538	-.538	0	3.75
36	U044	Z	-.538	-.538	0	3.75
37	U045	Z	-.538	-.538	0	3.75
38	MP1	Z	-1.478	-1.478	0	103
39	MP2	Z	-1.478	-1.478	0	96
40	MP3	Z	-1.478	-1.478	0	103
41	MP4	Z	-1.478	-1.478	0	103
42	MP5	Z	-1.478	-1.478	0	103
43	MP6	Z	-1.478	-1.478	0	103
44	MP7	Z	-1.478	-1.478	0	96
45	MP8	Z	-1.478	-1.478	0	96
46	MP9	Z	-1.478	-1.478	0	103
47	MP10	Z	-1.478	-1.478	0	103



Company : American Tower Corp.
 Designer : Rohith.Koduru
 Job Number : 13201995_C8_01
 Model Name : 302506, Winchester CT 3

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Member Distributed Loads (BLC 26 : BLC 5 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in,%]	End Location[in,%]
48	MP11	Z	-1.478	-1.478	0	103
49	MP12	Z	-1.478	-1.478	0	103

Member Distributed Loads (BLC 27 : BLC 6 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in,%]	End Location[in,%]
1	H002	X	-2.689	-2.689	0	63.653
2	H003	X	-2.689	-2.689	0	63.653
3	H005	X	-2.689	-2.689	0	63.653
4	H006	X	-2.689	-2.689	0	63.653
5	H007	X	-.202	-.202	0	9
6	H009	X	-.202	-.202	0	9
7	H010	X	-2.689	-2.689	0	57
8	H012	X	-2.689	-2.689	0	57
9	H014	X	-3.105	-3.105	0	25.981
10	H015	X	-.699	-.699	0	16.637
11	H016	X	-.349	-.349	0	16.637
12	H017	X	-.349	-.349	0	16.637
13	H019	X	-1.277	-1.277	0	118.694
14	H020	X	-1.277	-1.277	0	118.694
15	H021	X	-1.631	-1.631	0	8.904
16	H022	X	-.035	-.035	0	8.904
17	H023	X	-1.596	-1.596	0	8.904
18	U024	X	-.621	-.621	0	3.75
19	U025	X	-.621	-.621	0	3.75
20	U026	X	-.621	-.621	0	3.75
21	U027	X	-.621	-.621	0	3.75
22	U028	X	-.621	-.621	0	3.75
23	U029	X	-.621	-.621	0	3.75
24	U030	X	-.31	-.31	0	3.75
25	U031	X	-.31	-.31	0	3.75
26	U032	X	-.311	-.311	0	3.75
27	U033	X	-.311	-.311	0	3.75
28	U034	X	-.311	-.311	0	3.75
29	U035	X	-.311	-.311	0	3.75
30	U036	X	-.311	-.311	0	3.75
31	U037	X	-.311	-.311	0	3.75
32	U038	X	-.31	-.31	0	3.75
33	U039	X	-.31	-.31	0	3.75
34	U040	X	-.31	-.31	0	3.75
35	U041	X	-.31	-.31	0	3.75
36	U042	X	-.31	-.31	0	3.75
37	U043	X	-.31	-.31	0	3.75
38	U044	X	-.31	-.31	0	3.75
39	U045	X	-.31	-.31	0	3.75
40	MP1	X	-1.478	-1.478	0	103
41	MP2	X	-1.478	-1.478	0	96
42	MP3	X	-1.478	-1.478	0	103
43	MP4	X	-1.478	-1.478	0	103
44	MP5	X	-1.478	-1.478	0	103
45	MP6	X	-1.478	-1.478	0	103
46	MP7	X	-1.478	-1.478	0	96
47	MP8	X	-1.478	-1.478	0	96
48	MP9	X	-1.478	-1.478	0	103
49	MP10	X	-1.478	-1.478	0	103
50	MP11	X	-1.478	-1.478	0	103
51	MP12	X	-1.478	-1.478	0	103



Company : American Tower Corp.
 Designer : Rohith.Koduru
 Job Number : 13201995_C8_01
 Model Name : 302506, Winchester CT 3

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Member Distributed Loads (BLC 27 : BLC 6 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
52	M58	X	-.621	-.621	0	3.75
53	M59	X	-.621	-.621	0	3.75

Member Distributed Loads (BLC 28 : BLC 7 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	H001	Z	-1.118	-1.118	0	63.653
2	H002	Z	-.559	-.559	0	63.653
3	H003	Z	-.559	-.559	0	63.653
4	H004	Z	-1.118	-1.118	0	63.653
5	H005	Z	-.559	-.559	0	63.653
6	H006	Z	-.559	-.559	0	63.653
7	H007	Z	-.042	-.042	0	9
8	H008	Z	-.084	-.084	0	9
9	H009	Z	-.042	-.042	0	9
10	H010	Z	-.559	-.559	0	57
11	H011	Z	-1.118	-1.118	0	57
12	H012	Z	-.559	-.559	0	57
13	H013	Z	-1.118	-1.118	0	27
14	H016	Z	-.218	-.218	0	16.637
15	H017	Z	-.218	-.218	0	16.637
16	H018	Z	-.531	-.531	0	118.694
17	H019	Z	-.265	-.265	0	118.694
18	H020	Z	-.265	-.265	0	118.694
19	H021	Z	-.324	-.324	0	8.904
20	H022	Z	-.671	-.671	0	8.904
21	H023	Z	-.346	-.346	0	8.904
22	U030	Z	-.194	-.194	0	3.75
23	U031	Z	-.194	-.194	0	3.75
24	U032	Z	-.194	-.194	0	3.75
25	U033	Z	-.194	-.194	0	3.75
26	U034	Z	-.194	-.194	0	3.75
27	U035	Z	-.194	-.194	0	3.75
28	U036	Z	-.194	-.194	0	3.75
29	U037	Z	-.194	-.194	0	3.75
30	U038	Z	-.194	-.194	0	3.75
31	U039	Z	-.194	-.194	0	3.75
32	U040	Z	-.194	-.194	0	3.75
33	U041	Z	-.194	-.194	0	3.75
34	U042	Z	-.194	-.194	0	3.75
35	U043	Z	-.194	-.194	0	3.75
36	U044	Z	-.194	-.194	0	3.75
37	U045	Z	-.194	-.194	0	3.75
38	MP1	Z	-.532	-.532	0	103
39	MP2	Z	-.532	-.532	0	96
40	MP3	Z	-.532	-.532	0	103
41	MP4	Z	-.532	-.532	0	103
42	MP5	Z	-.532	-.532	0	103
43	MP6	Z	-.532	-.532	0	103
44	MP7	Z	-.532	-.532	0	96
45	MP8	Z	-.532	-.532	0	96
46	MP9	Z	-.532	-.532	0	103
47	MP10	Z	-.532	-.532	0	103
48	MP11	Z	-.532	-.532	0	103
49	MP12	Z	-.532	-.532	0	103



Company : American Tower Corp.
 Designer : Rohith.Koduru
 Job Number : 13201995_C8_01
 Model Name : 302506, Winchester CT 3

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Member Distributed Loads (BLC 29 : BLC 8 Transient Area Loads)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	H002	X	- .968	- .968	0 63.653
2	H003	X	- .968	- .968	0 63.653
3	H005	X	- .968	- .968	0 63.653
4	H006	X	- .968	- .968	0 63.653
5	H007	X	- .073	- .073	0 9
6	H009	X	- .073	- .073	0 9
7	H010	X	- .968	- .968	0 57
8	H012	X	- .968	- .968	0 57
9	H014	X	- 1.118	- 1.118	0 25.981
10	H015	X	- .252	- .252	0 16.637
11	H016	X	- .126	- .126	0 16.637
12	H017	X	- .126	- .126	0 16.637
13	H019	X	- .46	- .46	0 118.694
14	H020	X	- .46	- .46	0 118.694
15	H021	X	- .587	- .587	0 8.904
16	H022	X	- .013	- .013	0 8.904
17	H023	X	- .574	- .574	0 8.904
18	U024	X	- .224	- .224	0 3.75
19	U025	X	- .224	- .224	0 3.75
20	U026	X	- .224	- .224	0 3.75
21	U027	X	- .224	- .224	0 3.75
22	U028	X	- .224	- .224	0 3.75
23	U029	X	- .224	- .224	0 3.75
24	U030	X	- .112	- .112	0 3.75
25	U031	X	- .112	- .112	0 3.75
26	U032	X	- .112	- .112	0 3.75
27	U033	X	- .112	- .112	0 3.75
28	U034	X	- .112	- .112	0 3.75
29	U035	X	- .112	- .112	0 3.75
30	U036	X	- .112	- .112	0 3.75
31	U037	X	- .112	- .112	0 3.75
32	U038	X	- .112	- .112	0 3.75
33	U039	X	- .112	- .112	0 3.75
34	U040	X	- .112	- .112	0 3.75
35	U041	X	- .112	- .112	0 3.75
36	U042	X	- .112	- .112	0 3.75
37	U043	X	- .112	- .112	0 3.75
38	U044	X	- .112	- .112	0 3.75
39	U045	X	- .112	- .112	0 3.75
40	MP1	X	- .532	- .532	0 103
41	MP2	X	- .532	- .532	0 96
42	MP3	X	- .532	- .532	0 103
43	MP4	X	- .532	- .532	0 103
44	MP5	X	- .532	- .532	0 103
45	MP6	X	- .532	- .532	0 103
46	MP7	X	- .532	- .532	0 96
47	MP8	X	- .532	- .532	0 96
48	MP9	X	- .532	- .532	0 103
49	MP10	X	- .532	- .532	0 103
50	MP11	X	- .532	- .532	0 103
51	MP12	X	- .532	- .532	0 103
52	M58	X	- .224	- .224	0 3.75
53	M59	X	- .224	- .224	0 3.75



Company : American Tower Corp.
 Designer : Rohith.Koduru
 Job Number : 13201995_C8_01
 Model Name : 302506, Winchester CT 3

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Member Area Loads (BLC 3 : Wind -Z)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	NAL1	NAL2	NAL4	NAL3	PZ	Open Structure	-45.836

Member Area Loads (BLC 4 : Wind -X)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	NAL3	NAL4	NAL6	NAL5	PX	Open Structure	-45.836

Member Area Loads (BLC 5 : Wind -Z (Ice))

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	NAL1	NAL2	NAL4	NAL3	PZ	Open Structure	-7.452

Member Area Loads (BLC 6 : Wind -X (Ice))

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	NAL3	NAL4	NAL6	NAL5	PX	Open Structure	-7.452

Member Area Loads (BLC 7 : Wind -Z (Working))

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	NAL1	NAL2	NAL4	NAL3	PZ	Open Structure	-2.683

Member Area Loads (BLC 8 : Wind -X (Working))

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	NAL3	NAL4	NAL6	NAL5	PX	Open Structure	-2.683

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...)	Surface(P...
1	Dead	DL		-1			33		
2	Ice	IL					33	35	3
3	Wind -Z	WLZ					34		1
4	Wind -X	WLX					33		1
5	Wind -Z (Ice)	WL-Z					33	35	1
6	Wind -X (Ice)	WL-X					33	35	1
7	Wind -Z (Working)	WLZP1					33		1
8	Wind -X (Working)	WLXP1					33		1
9	Ev -Y (Seismic)	ELY						35	
10	Eh -Z (Seismic)	ELZ						35	
11	Eh -X (Seismic)	ELX						35	
12	Lm (1)	LL				1			
13	Lm (2)	LL				1			
14	Lm (3)	LL				1			
15	Lm (4)	LL				1			
16	Lm (5)	LL				1			
17	Lm (6)	LL				1			
18	Lm (7)	LL				1			
19	Lm (8)	LL				1			
20	Lm (9)	LL				1			
21	Lm (10)	LL				1			
22	Lm (11)	LL				1			
23	Lm (12)	LL				1			
24	BLC 3 Transient Area...	None						49	
25	BLC 4 Transient Area...	None						53	
26	BLC 5 Transient Area...	None						49	
27	BLC 6 Transient Area...	None						53	
28	BLC 7 Transient Area...	None						49	



Company : American Tower Corp.
 Designer : Rohith.Koduru
 Job Number : 13201995_C8_01
 Model Name : 302506, Winchester CT 3

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Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
29	BLC 8 Transient Area...	None						53	

Load Combinations

	Description	Sol..	PD..	SR..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..
1	1.4D	Yes	Y		DL	1.4								
2	1.2D + 1.0..	Yes	Y		DL	1.2	W...	.001	WLZ	1				
3	1.2D + 1.0..	Yes	Y		DL	1.2	W...	.5	WLZ	.866				
4	1.2D + 1.0..	Yes	Y		DL	1.2	W...	.866	WLZ	.5				
5	1.2D + 1.0..	Yes	Y		DL	1.2	W...	1	WLZ	.001				
6	1.2D + 1.0..	Yes	Y		DL	1.2	W...	.866	WLZ	-.5				
7	1.2D + 1.0..	Yes	Y		DL	1.2	W...	.5	WLZ	-.866				
8	1.2D + 1.0..	Yes	Y		DL	1.2	W...	.001	WLZ	-1				
9	1.2D + 1.0..	Yes	Y		DL	1.2	W...	-.5	WLZ	-.866				
10	1.2D + 1.0..	Yes	Y		DL	1.2	W...	-.866	WLZ	-.5				
11	1.2D + 1.0..	Yes	Y		DL	1.2	W...	-1	WLZ	.001				
12	1.2D + 1.0..	Yes	Y		DL	1.2	W...	-.866	WLZ	.5				
13	1.2D + 1.0..	Yes	Y		DL	1.2	W...	-.5	WLZ	.866				
14	0.9D + 1.0..	Yes	Y		DL	.9	W...	.001	WLZ	1				
15	0.9D + 1.0..	Yes	Y		DL	.9	W...	.5	WLZ	.866				
16	0.9D + 1.0..	Yes	Y		DL	.9	W...	.866	WLZ	.5				
17	0.9D + 1.0..	Yes	Y		DL	.9	W...	1	WLZ	.001				
18	0.9D + 1.0..	Yes	Y		DL	.9	W...	.866	WLZ	-.5				
19	0.9D + 1.0..	Yes	Y		DL	.9	W...	.5	WLZ	-.866				
20	0.9D + 1.0..	Yes	Y		DL	.9	W...	.001	WLZ	-1				
21	0.9D + 1.0..	Yes	Y		DL	.9	W...	-.5	WLZ	-.866				
22	0.9D + 1.0..	Yes	Y		DL	.9	W...	-.866	WLZ	-.5				
23	0.9D + 1.0..	Yes	Y		DL	.9	W...	-1	WLZ	.001				
24	0.9D + 1.0..	Yes	Y		DL	.9	W...	-.866	WLZ	.5				
25	0.9D + 1.0..	Yes	Y		DL	.9	W...	-.5	WLZ	.866				
26	1.2D + 1.0..	Yes	Y		DL	1.2	IL	1	W...	.001	W...	1		
27	1.2D + 1.0..	Yes	Y		DL	1.2	IL	1	W...	.5	W...	.866		
28	1.2D + 1.0..	Yes	Y		DL	1.2	IL	1	W...	.866	W...	.5		
29	1.2D + 1.0..	Yes	Y		DL	1.2	IL	1	W...	1	W...	.001		
30	1.2D + 1.0..	Yes	Y		DL	1.2	IL	1	W...	.866	W...	-.5		
31	1.2D + 1.0..	Yes	Y		DL	1.2	IL	1	W...	.5	W...	-.866		
32	1.2D + 1.0..	Yes	Y		DL	1.2	IL	1	W...	.001	W...	-1		
33	1.2D + 1.0..	Yes	Y		DL	1.2	IL	1	W...	-.5	W...	-.866		
34	1.2D + 1.0..	Yes	Y		DL	1.2	IL	1	W...	-.866	W...	-.5		
35	1.2D + 1.0..	Yes	Y		DL	1.2	IL	1	W...	-1	W...	.001		
36	1.2D + 1.0..	Yes	Y		DL	1.2	IL	1	W...	-.866	W...	.5		
37	1.2D + 1.0..	Yes	Y		DL	1.2	IL	1	W...	-.5	W...	.866		
38	1.2D + 1.0..	Yes	Y		DL	1.2	ELY	1	ELZ	1	ELX	.001		
39	1.2D + 1.0..	Yes	Y		DL	1.2	ELY	1	ELZ	.866	ELX	.5		
40	1.2D + 1.0..	Yes	Y		DL	1.2	ELY	1	ELZ	.5	ELX	.866		
41	1.2D + 1.0..	Yes	Y		DL	1.2	ELY	1	ELZ	.001	ELX	1		
42	1.2D + 1.0..	Yes	Y		DL	1.2	ELY	1	ELZ	-.5	ELX	.866		
43	1.2D + 1.0..	Yes	Y		DL	1.2	ELY	1	ELZ	-.866	ELX	.5		
44	1.2D + 1.0..	Yes	Y		DL	1.2	ELY	1	ELZ	-1	ELX	.001		
45	1.2D + 1.0..	Yes	Y		DL	1.2	ELY	1	ELZ	-.866	ELX	-.5		
46	1.2D + 1.0..	Yes	Y		DL	1.2	ELY	1	ELZ	-.5	ELX	-.866		
47	1.2D + 1.0..	Yes	Y		DL	1.2	ELY	1	ELZ	.001	ELX	-1		
48	1.2D + 1.0..	Yes	Y		DL	1.2	ELY	1	ELZ	.5	ELX	-.866		
49	1.2D + 1.0..	Yes	Y		DL	1.2	ELY	1	ELZ	.866	ELX	-.5		
50	0.9D + 1.0..	Yes	Y		DL	.9	ELY	1	ELZ	1	ELX	.001		
51	0.9D + 1.0..	Yes	Y		DL	.9	ELY	1	ELZ	.866	ELX	.5		



Company : American Tower Corp.
 Designer : Rohith.Koduru
 Job Number : 13201995_C8_01
 Model Name : 302506, Winchester CT 3

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Load Combinations (Continued)

Description	Sol.	PD	SR	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.
52	0.9D + 1.0..	Yes	Y	DL	.9	ELY	1	ELZ	.5	ELX	.866		
53	0.9D + 1.0..	Yes	Y	DL	.9	ELY	1	ELZ	.001	ELX	1		
54	0.9D + 1.0..	Yes	Y	DL	.9	ELY	1	ELZ	-.5	ELX	.866		
55	0.9D + 1.0..	Yes	Y	DL	.9	ELY	1	ELZ	-.866	ELX	.5		
56	0.9D + 1.0..	Yes	Y	DL	.9	ELY	1	ELZ	-.1	ELX	.001		
57	0.9D + 1.0..	Yes	Y	DL	.9	ELY	1	ELZ	-.866	ELX	-.5		
58	0.9D + 1.0..	Yes	Y	DL	.9	ELY	1	ELZ	-.5	ELX	-.866		
59	0.9D + 1.0..	Yes	Y	DL	.9	ELY	1	ELZ	.001	ELX	-.1		
60	0.9D + 1.0..	Yes	Y	DL	.9	ELY	1	ELZ	.5	ELX	-.866		
61	0.9D + 1.0..	Yes	Y	DL	.9	ELY	1	ELZ	.866	ELX	-.5		
62	1.2D + 1.5..	Yes	Y	DL	1.2	12	1.5	W...	.001	W...	1		
63	1.2D + 1.5..	Yes	Y	DL	1.2	12	1.5	W...	.5	W...	.866		
64	1.2D + 1.5..	Yes	Y	DL	1.2	12	1.5	W...	.866	W...	.5		
65	1.2D + 1.5..	Yes	Y	DL	1.2	12	1.5	W...	1	W...	.001		
66	1.2D + 1.5..	Yes	Y	DL	1.2	12	1.5	W...	.866	W...	-.5		
67	1.2D + 1.5..	Yes	Y	DL	1.2	12	1.5	W...	.5	W...	-.866		
68	1.2D + 1.5..	Yes	Y	DL	1.2	12	1.5	W...	.001	W...	-.1		
69	1.2D + 1.5..	Yes	Y	DL	1.2	12	1.5	W...	-.5	W...	-.866		
70	1.2D + 1.5..	Yes	Y	DL	1.2	12	1.5	W...	-.866	W...	-.5		
71	1.2D + 1.5..	Yes	Y	DL	1.2	12	1.5	W...	-.1	W...	.001		
72	1.2D + 1.5..	Yes	Y	DL	1.2	12	1.5	W...	-.866	W...	.5		
73	1.2D + 1.5..	Yes	Y	DL	1.2	12	1.5	W...	-.5	W...	.866		
74	1.2D + 1.5..	Yes	Y	DL	1.2	13	1.5	W...	.001	W...	1		
75	1.2D + 1.5..	Yes	Y	DL	1.2	13	1.5	W...	.5	W...	.866		
76	1.2D + 1.5..	Yes	Y	DL	1.2	13	1.5	W...	.866	W...	.5		
77	1.2D + 1.5..	Yes	Y	DL	1.2	13	1.5	W...	1	W...	.001		
78	1.2D + 1.5..	Yes	Y	DL	1.2	13	1.5	W...	.866	W...	-.5		
79	1.2D + 1.5..	Yes	Y	DL	1.2	13	1.5	W...	.5	W...	-.866		
80	1.2D + 1.5..	Yes	Y	DL	1.2	13	1.5	W...	.001	W...	-.1		
81	1.2D + 1.5..	Yes	Y	DL	1.2	13	1.5	W...	-.5	W...	-.866		
82	1.2D + 1.5..	Yes	Y	DL	1.2	13	1.5	W...	-.866	W...	-.5		
83	1.2D + 1.5..	Yes	Y	DL	1.2	13	1.5	W...	-.1	W...	.001		
84	1.2D + 1.5..	Yes	Y	DL	1.2	13	1.5	W...	-.866	W...	.5		
85	1.2D + 1.5..	Yes	Y	DL	1.2	13	1.5	W...	-.5	W...	.866		
86	1.2D + 1.5..	Yes	Y	DL	1.2	14	1.5	W...	.001	W...	1		
87	1.2D + 1.5..	Yes	Y	DL	1.2	14	1.5	W...	.5	W...	.866		
88	1.2D + 1.5..	Yes	Y	DL	1.2	14	1.5	W...	.866	W...	.5		
89	1.2D + 1.5..	Yes	Y	DL	1.2	14	1.5	W...	1	W...	.001		
90	1.2D + 1.5..	Yes	Y	DL	1.2	14	1.5	W...	.866	W...	-.5		
91	1.2D + 1.5..	Yes	Y	DL	1.2	14	1.5	W...	.5	W...	-.866		
92	1.2D + 1.5..	Yes	Y	DL	1.2	14	1.5	W...	.001	W...	-.1		
93	1.2D + 1.5..	Yes	Y	DL	1.2	14	1.5	W...	-.5	W...	-.866		
94	1.2D + 1.5..	Yes	Y	DL	1.2	14	1.5	W...	-.866	W...	-.5		
95	1.2D + 1.5..	Yes	Y	DL	1.2	14	1.5	W...	-.1	W...	.001		
96	1.2D + 1.5..	Yes	Y	DL	1.2	14	1.5	W...	-.866	W...	.5		
97	1.2D + 1.5..	Yes	Y	DL	1.2	14	1.5	W...	-.5	W...	.866		
98	1.2D + 1.5..	Yes	Y	DL	1.2	15	1.5	W...	.001	W...	1		
99	1.2D + 1.5..	Yes	Y	DL	1.2	15	1.5	W...	.5	W...	.866		
100	1.2D + 1.5..	Yes	Y	DL	1.2	15	1.5	W...	.866	W...	.5		
101	1.2D + 1.5..	Yes	Y	DL	1.2	15	1.5	W...	1	W...	.001		
102	1.2D + 1.5..	Yes	Y	DL	1.2	15	1.5	W...	.866	W...	-.5		
103	1.2D + 1.5..	Yes	Y	DL	1.2	15	1.5	W...	.5	W...	-.866		
104	1.2D + 1.5..	Yes	Y	DL	1.2	15	1.5	W...	.001	W...	-.1		
105	1.2D + 1.5..	Yes	Y	DL	1.2	15	1.5	W...	-.5	W...	-.866		
106	1.2D + 1.5..	Yes	Y	DL	1.2	15	1.5	W...	-.866	W...	-.5		
107	1.2D + 1.5..	Yes	Y	DL	1.2	15	1.5	W...	-.1	W...	.001		
108	1.2D + 1.5..	Yes	Y	DL	1.2	15	1.5	W...	-.866	W...	.5		



Company : American Tower Corp.
 Designer : Rohith.Koduru
 Job Number : 13201995_C8_01
 Model Name : 302506, Winchester CT 3

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Load Combinations (Continued)

	Description	Sol.	PD	SR	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.
109	1.2D + 1.5..	Yes	Y		DL	1.2	15	1.5	W...	-5	W...	.866	
110	1.2D + 1.5..	Yes	Y		DL	1.2	16	1.5	W...	.001	W...	1	
111	1.2D + 1.5..	Yes	Y		DL	1.2	16	1.5	W...	.5	W...	.866	
112	1.2D + 1.5..	Yes	Y		DL	1.2	16	1.5	W...	.866	W...	.5	
113	1.2D + 1.5..	Yes	Y		DL	1.2	16	1.5	W...	1	W...	.001	
114	1.2D + 1.5..	Yes	Y		DL	1.2	16	1.5	W...	.866	W...	-5	
115	1.2D + 1.5..	Yes	Y		DL	1.2	16	1.5	W...	.5	W...	-.866	
116	1.2D + 1.5..	Yes	Y		DL	1.2	16	1.5	W...	.001	W...	-1	
117	1.2D + 1.5..	Yes	Y		DL	1.2	16	1.5	W...	-.5	W...	-.866	
118	1.2D + 1.5..	Yes	Y		DL	1.2	16	1.5	W...	-.866	W...	-.5	
119	1.2D + 1.5..	Yes	Y		DL	1.2	16	1.5	W...	-1	W...	.001	
120	1.2D + 1.5..	Yes	Y		DL	1.2	16	1.5	W...	-.866	W...	.5	
121	1.2D + 1.5..	Yes	Y		DL	1.2	16	1.5	W...	-.5	W...	.866	
122	1.2D + 1.5..	Yes	Y		DL	1.2	17	1.5	W...	.001	W...	1	
123	1.2D + 1.5..	Yes	Y		DL	1.2	17	1.5	W...	.5	W...	.866	
124	1.2D + 1.5..	Yes	Y		DL	1.2	17	1.5	W...	.866	W...	.5	
125	1.2D + 1.5..	Yes	Y		DL	1.2	17	1.5	W...	1	W...	.001	
126	1.2D + 1.5..	Yes	Y		DL	1.2	17	1.5	W...	.866	W...	-.5	
127	1.2D + 1.5..	Yes	Y		DL	1.2	17	1.5	W...	.5	W...	-.866	
128	1.2D + 1.5..	Yes	Y		DL	1.2	17	1.5	W...	.001	W...	-1	
129	1.2D + 1.5..	Yes	Y		DL	1.2	17	1.5	W...	-.5	W...	-.866	
130	1.2D + 1.5..	Yes	Y		DL	1.2	17	1.5	W...	-.866	W...	-.5	
131	1.2D + 1.5..	Yes	Y		DL	1.2	17	1.5	W...	-1	W...	.001	
132	1.2D + 1.5..	Yes	Y		DL	1.2	17	1.5	W...	-.866	W...	.5	
133	1.2D + 1.5..	Yes	Y		DL	1.2	17	1.5	W...	-.5	W...	.866	
134	1.2D + 1.5..	Yes	Y		DL	1.2	18	1.5	W...	.001	W...	1	
135	1.2D + 1.5..	Yes	Y		DL	1.2	18	1.5	W...	.5	W...	.866	
136	1.2D + 1.5..	Yes	Y		DL	1.2	18	1.5	W...	.866	W...	.5	
137	1.2D + 1.5..	Yes	Y		DL	1.2	18	1.5	W...	1	W...	.001	
138	1.2D + 1.5..	Yes	Y		DL	1.2	18	1.5	W...	.866	W...	-.5	
139	1.2D + 1.5..	Yes	Y		DL	1.2	18	1.5	W...	.5	W...	-.866	
140	1.2D + 1.5..	Yes	Y		DL	1.2	18	1.5	W...	.001	W...	-1	
141	1.2D + 1.5..	Yes	Y		DL	1.2	18	1.5	W...	-.5	W...	-.866	
142	1.2D + 1.5..	Yes	Y		DL	1.2	18	1.5	W...	-.866	W...	-.5	
143	1.2D + 1.5..	Yes	Y		DL	1.2	18	1.5	W...	-1	W...	.001	
144	1.2D + 1.5..	Yes	Y		DL	1.2	18	1.5	W...	-.866	W...	.5	
145	1.2D + 1.5..	Yes	Y		DL	1.2	18	1.5	W...	-.5	W...	.866	
146	1.2D + 1.5..	Yes	Y		DL	1.2	19	1.5	W...	.001	W...	1	
147	1.2D + 1.5..	Yes	Y		DL	1.2	19	1.5	W...	.5	W...	.866	
148	1.2D + 1.5..	Yes	Y		DL	1.2	19	1.5	W...	.866	W...	.5	
149	1.2D + 1.5..	Yes	Y		DL	1.2	19	1.5	W...	1	W...	.001	
150	1.2D + 1.5..	Yes	Y		DL	1.2	19	1.5	W...	.866	W...	-.5	
151	1.2D + 1.5..	Yes	Y		DL	1.2	19	1.5	W...	.5	W...	-.866	
152	1.2D + 1.5..	Yes	Y		DL	1.2	19	1.5	W...	.001	W...	-1	
153	1.2D + 1.5..	Yes	Y		DL	1.2	19	1.5	W...	-.5	W...	-.866	
154	1.2D + 1.5..	Yes	Y		DL	1.2	19	1.5	W...	-.866	W...	-.5	
155	1.2D + 1.5..	Yes	Y		DL	1.2	19	1.5	W...	-1	W...	.001	
156	1.2D + 1.5..	Yes	Y		DL	1.2	19	1.5	W...	-.866	W...	.5	
157	1.2D + 1.5..	Yes	Y		DL	1.2	19	1.5	W...	-.5	W...	.866	
158	1.2D + 1.5..	Yes	Y		DL	1.2	20	1.5	W...	.001	W...	1	
159	1.2D + 1.5..	Yes	Y		DL	1.2	20	1.5	W...	.5	W...	.866	
160	1.2D + 1.5..	Yes	Y		DL	1.2	20	1.5	W...	.866	W...	.5	
161	1.2D + 1.5..	Yes	Y		DL	1.2	20	1.5	W...	1	W...	.001	
162	1.2D + 1.5..	Yes	Y		DL	1.2	20	1.5	W...	.866	W...	-.5	
163	1.2D + 1.5..	Yes	Y		DL	1.2	20	1.5	W...	.5	W...	-.866	
164	1.2D + 1.5..	Yes	Y		DL	1.2	20	1.5	W...	.001	W...	-1	
165	1.2D + 1.5..	Yes	Y		DL	1.2	20	1.5	W...	-.5	W...	-.866	



Company : American Tower Corp.
 Designer : Rohith.Koduru
 Job Number : 13201995_C8_01
 Model Name : 302506, Winchester CT 3

May 1, 2020
 3:44 PM
 Checked By: -

Load Combinations (Continued)

	Description	Sol.	PD	SR	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.
166	1.2D + 1.5..	Yes	Y		DL	1.2	20	1.5	W...	-0.866	W...	-0.5		
167	1.2D + 1.5..	Yes	Y		DL	1.2	20	1.5	W...	-1	W...	.001		
168	1.2D + 1.5..	Yes	Y		DL	1.2	20	1.5	W...	-0.866	W...	.5		
169	1.2D + 1.5..	Yes	Y		DL	1.2	20	1.5	W...	-0.5	W...	.866		
170	1.2D + 1.5..	Yes	Y		DL	1.2	21	1.5	W...	.001	W...	1		
171	1.2D + 1.5..	Yes	Y		DL	1.2	21	1.5	W...	.5	W...	.866		
172	1.2D + 1.5..	Yes	Y		DL	1.2	21	1.5	W...	.866	W...	.5		
173	1.2D + 1.5..	Yes	Y		DL	1.2	21	1.5	W...	1	W...	.001		
174	1.2D + 1.5..	Yes	Y		DL	1.2	21	1.5	W...	.866	W...	-0.5		
175	1.2D + 1.5..	Yes	Y		DL	1.2	21	1.5	W...	.5	W...	-0.866		
176	1.2D + 1.5..	Yes	Y		DL	1.2	21	1.5	W...	.001	W...	-1		
177	1.2D + 1.5..	Yes	Y		DL	1.2	21	1.5	W...	-0.5	W...	-0.866		
178	1.2D + 1.5..	Yes	Y		DL	1.2	21	1.5	W...	-0.866	W...	-0.5		
179	1.2D + 1.5..	Yes	Y		DL	1.2	21	1.5	W...	-1	W...	.001		
180	1.2D + 1.5..	Yes	Y		DL	1.2	21	1.5	W...	-0.866	W...	.5		
181	1.2D + 1.5..	Yes	Y		DL	1.2	21	1.5	W...	-0.5	W...	.866		
182	1.2D + 1.5..	Yes	Y		DL	1.2	22	1.5	W...	.001	W...	1		
183	1.2D + 1.5..	Yes	Y		DL	1.2	22	1.5	W...	.5	W...	.866		
184	1.2D + 1.5..	Yes	Y		DL	1.2	22	1.5	W...	.866	W...	.5		
185	1.2D + 1.5..	Yes	Y		DL	1.2	22	1.5	W...	1	W...	.001		
186	1.2D + 1.5..	Yes	Y		DL	1.2	22	1.5	W...	.866	W...	-0.5		
187	1.2D + 1.5..	Yes	Y		DL	1.2	22	1.5	W...	.5	W...	-0.866		
188	1.2D + 1.5..	Yes	Y		DL	1.2	22	1.5	W...	.001	W...	-1		
189	1.2D + 1.5..	Yes	Y		DL	1.2	22	1.5	W...	-0.5	W...	-0.866		
190	1.2D + 1.5..	Yes	Y		DL	1.2	22	1.5	W...	-0.866	W...	-0.5		
191	1.2D + 1.5..	Yes	Y		DL	1.2	22	1.5	W...	-1	W...	.001		
192	1.2D + 1.5..	Yes	Y		DL	1.2	22	1.5	W...	-0.866	W...	.5		
193	1.2D + 1.5..	Yes	Y		DL	1.2	22	1.5	W...	-0.5	W...	.866		
194	1.2D + 1.5..	Yes	Y		DL	1.2	23	1.5	W...	.001	W...	1		
195	1.2D + 1.5..	Yes	Y		DL	1.2	23	1.5	W...	.5	W...	.866		
196	1.2D + 1.5..	Yes	Y		DL	1.2	23	1.5	W...	.866	W...	.5		
197	1.2D + 1.5..	Yes	Y		DL	1.2	23	1.5	W...	1	W...	.001		
198	1.2D + 1.5..	Yes	Y		DL	1.2	23	1.5	W...	.866	W...	-0.5		
199	1.2D + 1.5..	Yes	Y		DL	1.2	23	1.5	W...	.5	W...	-0.866		
200	1.2D + 1.5..	Yes	Y		DL	1.2	23	1.5	W...	.001	W...	-1		
201	1.2D + 1.5..	Yes	Y		DL	1.2	23	1.5	W...	-0.5	W...	-0.866		
202	1.2D + 1.5..	Yes	Y		DL	1.2	23	1.5	W...	-0.866	W...	-0.5		
203	1.2D + 1.5..	Yes	Y		DL	1.2	23	1.5	W...	-1	W...	.001		
204	1.2D + 1.5..	Yes	Y		DL	1.2	23	1.5	W...	-0.866	W...	.5		
205	1.2D + 1.5..	Yes	Y		DL	1.2	23	1.5	W...	-0.5	W...	.866		

Envelope Joint Reactions

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC	
1	N001	max	0	205	0	205	0	205	0	0	205	0	205	
2		min	0	1	0	1	0	1	0	1	0	1	1	
3	N026	max	3361.947	17	3165.649	26	1212.564	14	4254.441	26	5000.978	23	1384.282	23
4		min	-3368.047	11	-976.327	20	-1227.749	8	-1446.571	20	-5007.257	5	-1415.315	5
5	N027	max	1148.542	16	3103.15	30	2134.51	2	1158.523	25	3234.697	15	1517.346	23
6		min	-1156.856	10	-1156.183	24	-2119.864	20	-2364.244	7	-3237.351	9	-3667.345	29
7	N028	max	1368.127	6	3081.289	34	1889.893	14	1161.604	15	3291.757	19	3657.279	35
8		min	-1352.848	24	-1160.442	16	-1889.567	8	-2333.96	9	-3295.333	13	-1522.239	17
9	Totals:	max	5430.131	17	7450.56	37	5235.321	14						
10		min	-5430.131	11	2467.573	14	-5235.321	8						



Company : American Tower Corp.
 Designer : Rohith.Koduru
 Job Number : 13201995_C8_01
 Model Name : 302506, Winchester CT 3

May 1, 2020
 3:44 PM
 Checked By: -

Envelope AISC 15th(360-16): LRFD Steel Code Checks

Member	Shape	Code	Loc[in]	LC	Shear	Loc[in]	Dir	LC	phi*Pnc	phi*Pnt	phi*Mn y	phi*Mn z	Cb	Eqn
1	H001	C5x9	.498	57.0...	11	.312	8.62	z	13	58420.4...	85536	1909.122	11853	1...H1-1b
2	H002	C5x9	.544	57.0...	3	.429	8.62	z	5	58420.4...	85536	1909.122	11853	1...H1-1b
3	H003	C5x9	.587	57.0...	6	.314	8.62	z	9	58420.4...	85536	1909.122	11853	1...H1-1b
4	H004	C5x9	.474	57.0...	5	.298	8.62	z	3	58420.4...	85536	1909.122	11853	1...H1-1b
5	H005	C5x9	.553	57.0...	10	.300	8.62	z	7	58420.4...	85536	1909.122	11853	1...H1-1b
6	H006	C5x9	.576	57.0...	6	.408	8.62	z	11	58420.4...	85536	1909.122	11853	2...H1-1b
7	H007	PL10x0.375	.255	0	13	.140	0	y	13	104185....	121500	949.219	25312.5	2...H1-1b
8	H008	PL10x0.375	.279	0	5	.152	0	y	5	104185....	121500	949.219	25312.5	2...H1-1b
9	H009	PL10x0.375	.259	0	9	.138	9	y	9	104185....	121500	949.219	25312.5	2...H1-1b
10	H010	C5x9	.567	28.5	10	.100	28.5	y	34	63004.1...	85536	1909.122	11853	1...H1-1b
11	H011	C5x9	.612	28.5	2	.114	28.5	y	35	63004.1...	85536	1909.122	11853	1...H1-1b
12	H012	C5x9	.549	28.5	6	.102	28.5	y	29	63004.1...	85536	1909.122	11853	1...H1-1b
13	H013	C5x9	.094	0	6	.021	13.5	z	5	79348.8...	85536	1909.122	11853	1...H1-1b
14	H014	C5x9	.122	0	2	.024	12.72	y	13	79575.1...	85536	1909.122	11853	1...H1-1b
15	H015	PL14x1.125	.356	16.6...	26	.172	16.6...	y	5	444449....	510300	11961	148837.5	1...H1-1b
16	H016	PL14x1.125	.352	16.6...	6	.154	16.6...	y	3	444449....	510300	11961	148837.5	1...H1-1b
17	H017	PL14x1.125	.347	16.6...	10	.155	16.6...	y	13	444449....	510300	11961	148837.5	1...H1-1b
18	H018	PIPE 2.0	.267	4.946	5	.308	114....		2	10054.2...	32130	1871.625	1871.625	3...H1-1b
19	H019	PIPE 2.0	.290	113....	3	.306	3.709		6	10054.2...	32130	1871.625	1871.625	3...H1-1b
20	H020	PIPE 2.0	.296	114....	6	.323	114....		10	10054.2...	32130	1871.625	1871.625	3...H1-1b
21	H021	L3x3x4	.379	8.904	6	.158	8.904	z	13	46416.1...	46656	1688.138	3755.745	2...H2-1
22	H022	L3x3x4	.418	8.904	10	.191	0	z	11	46416.1...	46656	1688.138	3755.745	2...H2-1
23	H023	L3x3x4	.395	8.904	2	.161	0	z	3	46416.1...	46656	1688.138	3755.745	2...H2-1
24	MP1	HSS2.375X0.125	.603	68.6...	7	.072	68.6...		6	2544.705	31109.4	1864.8	1864.8	4...H1-1a
25	MP2	HSS2.375X0.125	.383	66	76	.078	66		6	2929.337	31109.4	1864.8	1864.8	4...H1-1a
26	MP3	HSS2.375X0.125	.477	67.5...	97	.065	67.5...		9	2544.705	31109.4	1864.8	1864.8	4...H1-1a
27	MP4	HSS2.375X0.125	.652	67.5...	9	.067	67.5...		3	2544.705	31109.4	1864.8	1864.8	3...H1-1a
28	MP5	HSS2.375X0.125	.729	68.6...	11	.082	68.6...		5	2544.705	31109.4	1864.8	1864.8	2...H1-1a
29	MP6	HSS2.375X0.125	.613	68.6...	3	.066	68.6...		10	2544.705	31109.4	1864.8	1864.8	1...H1-1a
30	MP7	HSS2.375X0.125	.385	66	139	.081	66		11	2929.337	31109.4	1864.8	1864.8	2...H1-1a
31	MP8	HSS2.375X0.125	.385	66	156	.083	66		3	2929.337	31109.4	1864.8	1864.8	3...H1-1a
32	MP9	HSS2.375X0.125	.509	68.6...	160	.084	68.6...		5	2544.705	31109.4	1864.8	1864.8	3...H1-1a
33	MP10	HSS2.375X0.125	.510	68.6...	177	.059	68.6...		6	2544.705	31109.4	1864.8	1864.8	2...H1-1a
34	MP11	HSS2.375X0.125	.637	68.6...	13	.090	68.6...		5	2544.705	31109.4	1864.8	1864.8	1...H1-1a
35	MP12	HSS2.375X0.125	.763	68.6...	5	.086	68.6...		10	2544.705	31109.4	1864.8	1864.8	2...H1-1a

EXHIBIT 3

DOCKET NO. 138 - An application of SNET Cellular, Inc., for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of cellular facilities in the Towns of Plymouth, Harwinton, Winchester, and New Milford, Connecticut.

Connecticut

Siting

Council

November 26, 1990

DECISION AND ORDER

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council finds that the effects associated with the construction, operation, and maintenance of four cellular telecommunications towers and associated equipment at the proposed Plymouth, Harwinton, New Milford, and alternate Winchester sites including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife need not be in conflict either alone or cumulatively with other effects, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need (Certificate), as provided by section 16-50k of the Connecticut General Statutes (CGS), be issued to SNET Cellular Inc., for the construction, operation, and maintenance of a cellular telecommunications tower, associated equipment, and building at the proposed Plymouth, Harwinton, New Milford, and alternate Winchester sites.

The facilities shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The facilities shall be constructed in accordance with the State of Connecticut Basic Building Code.
2. The self-supporting monopole towers shall be no taller than necessary to provide the proposed communication service and in no event shall the Plymouth, Harwinton, and Winchester tower structures exceed 192-feet or the New Milford tower structure exceed 162 feet above ground level (AGL), including antennas and appurtenances.
3. The Certificate Holder shall prepare a Development and Management (D&M) Plan, for approval by the Council, for these sites in compliance with sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies (RSA). The D&M Plan shall include detailed plans for the towers, tower pedestals, tower foundations, soil boring reports, antenna structures, equipment buildings, access roads, security fences, erosion and sedimentation control plans

consistent with the Connecticut Guidelines of Soil Erosion and Sedimentation Control, and landscaping plans where necessary to screen the equipment building from adjacent land uses.

At the proposed Harwinton site, the accessway shall be designed to avoid a direct sight-line of the entire tower structure from the adjacent Fowler residence. To further mitigate the visibility of the facility, the tower's site shall be moved as close to the electric transmission line right-of-way as safety clearances allow.

At the alternate Winchester site, the Certificate Holder shall design the accessway to avoid a direct sight-line from the northern end of Oakdale Avenue. Prior to construction, the Certificate Holder shall secure all necessary permits and approvals to construct a crossing of the Tennessee Gas Company's underground gas transmission line. Prior to any necessary blasting activities, the Certificate Holder shall secure all necessary permits and shall conduct such blasting in accordance with State regulations. Copies of all permits and approvals shall be forwarded to the Council immediately upon receipt.

4. The Certificate Holder shall comply with any existing and future radio frequency (RF) standard promulgated by State or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the facilities granted in this Decision and Order shall be brought into compliance with such standards.
5. The Certificate Holder shall provide the Council a recalculated report of electromagnetic radio frequency power density if and when circumstances in operation cause a change in power densities above the levels originally calculated and provided in the application.
6. The Certificate Holder shall permit public or private entities to share space on the proposed towers for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
7. If the facilities do not initially provide, or permanently cease to provide cellular service following completion of construction, this Decision and Order shall be void, and the tower(s) and all associated equipment shall be dismantled and removed or reapplication for any new use shall be made to the Council before any such new use is made.
8. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the effective date of this Decision and Order or within three years after all appeals to this Decision and Order have been resolved.

Pursuant to Section 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in The New Milford Times, The Bristol Press, The Registrar-Citizen, and The Danbury News-Times.

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:

(PARTIES)

SNET Cellular, Inc.

(ITS REPRESENTATIVES)

Peter J. Tyrrell
Senior Attorney
SNET Cellular, Inc.
227 Church Street
Room 1021
New Haven, CT 06506

(INTERVENORS)

Pikeville Cellular Partnership

Charles Wolf, Esq.
Robinson & Cole
One Commercial Plaza
Hartford, CT 06103-3597

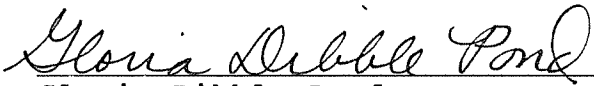
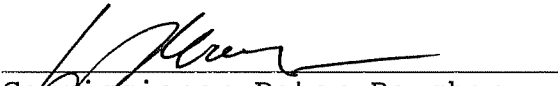


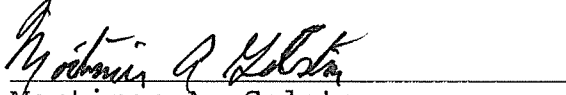
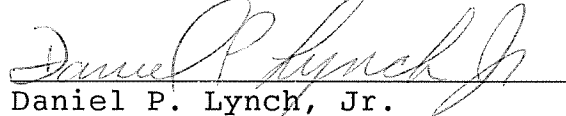
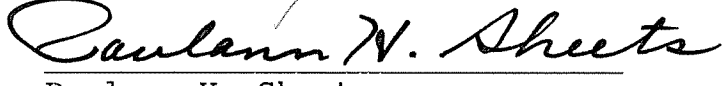
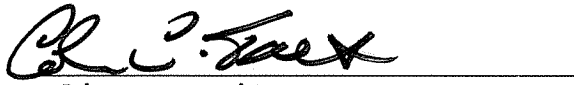
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4886E-1-3

CERTIFICATION

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case in Docket No. 138 or read the record thereof, and that we voted as follows:

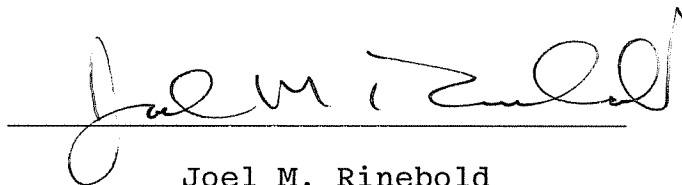
Dated at New Britain, Connecticut the 26 day of November, 1990.

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

STATE OF CONNECTICUT)
:
ss. New Britain, Connecticut
COUNTY OF HARTFORD)

I hereby certify that the foregoing is a true and correct copy of the Decision and Order issued by the Connecticut Siting Council, State of Connecticut.

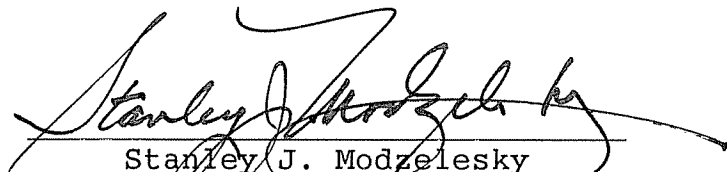
ATTEST:



Joel M. Rinebold
Executive Director
Connecticut Siting Council

I certify that a copy of the Findings of Fact, Opinion, and Decision and Order in Docket No. 138 have been forwarded by Certified First Class Return Receipt Requested mail on December 3, 1990, to all parties of record as listed on the attached service list, dated August 22, 1990.

ATTEST:



Stanley J. Modzelesky
Executive Assistant
Connecticut Siting Council

Date: August 22, 1990

Docket No. 138

LIST OF PARTIES AND INTERVENORS - SERVICE LIST

Status Granted	Status Holder (name, address & phone number)	Representative (name, address & phone number)
Party <input checked="" type="checkbox"/> Intervenor <input type="checkbox"/>	SNET Cellular, Inc.	Peter J. Tyrrell Senior Attorney SNET Cellular, Inc. 227 Church Street Room 1021 New Haven, CT 06506
Party <input type="checkbox"/> Intervenor <input checked="" type="checkbox"/>	Pikeville Cellular Partnership	Charles Wolf, Esq. Robinson & Cole One Commercial Plaza Hartford, CT 06103-3597
Party <input type="checkbox"/> Intervenor <input type="checkbox"/>		

EXHIBIT 4

108 OAKDALE AVE

Location 108 OAKDALE AVE

Mblu 028/ 151/ 002-1/ /

Acct# 103466

Owner STOW WILLIAM P REVOCABLE TRUST

Assessment \$101,150

Appraisal \$144,500

PID 4991

Building Count 1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2018	\$34,900	\$109,600	\$144,500

Assessment			
Valuation Year	Improvements	Land	Total
2018	\$24,430	\$76,720	\$101,150

Owner of Record

Owner STOW WILLIAM P REVOCABLE TRUST
Co-Owner C/O AMERICAN TOWER #302506

Sale Price \$0
Certificate
Book & Page 0411/0779
Sale Date 03/12/2013
Instrument 29

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
STOW WILLIAM P REVOCABLE TRUST	\$0		0411/0779	29	03/12/2013
STOW WILLIAM P & RICHARD D	\$0		00260/0171		11/16/1995

Building Information

Building 1 : Section 1

Year Built: 2004
Living Area: 360
Replacement Cost
Less Depreciation: \$13,500

Building Attributes

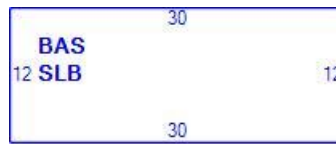
Field	Description
Style:	Warehse Prefab
Model	Ind/Comm
Grade	Average
Stories:	1
Occupancy	1.00
Exterior Wall 1	Pre-cast Concr
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Metal/Tin
Interior Wall 1	Minimum
Interior Wall 2	
Interior Floor 1	Concrete Slab
Interior Floor 2	
Heating Fuel	Gas/Oil
Heating Type	Hot Air-no Duc
AC Type	None
Struct Class	
Bldg Use	Tele Tower
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	1061
Heat/AC	NONE
Frame Type	MASONRY
Baths/Plumbing	NONE
Ceiling/Wall	NONE
Rooms/Prtns	LIGHT
Wall Height	12.00
% Comn Wall	

Building Photo



(http://images.vgsi.com/photos/WinchesterCTPhotos/\0005\IMG_1557_55)

Building Layout



(ParcelSketch.ashx?)

pid=4991&bid=5553)

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	360	360
SLB	Slab	360	0
		720	360

Extra Features

Extra Features				Legend
Code	Description	Size	Value	Bldg #
		0.00		1

Land

Land Use

Land Line Valuation

Use Code 4310
Description Tele Tower
Zone RR
Alt Land Appr No
Category

Size (Acres) 3.39
Depth
Assessed Value \$76,720
Appraised Value \$109,600

Outbuildings

Outbuildings						<u>Legend</u>
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
SHD8	Shd Com Mas			252.00 S.F.	\$6,200	1
SHD8	Shd Com Mas			252.00 S.F.	\$6,200	1
FN4	Fence-8' Chain			380.00 L.F.	\$9,000	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2017	\$25,900	\$109,600	\$135,500
2016	\$19,900	\$109,600	\$129,500
2012	\$13,700	\$109,600	\$123,300

Assessment			
Valuation Year	Improvements	Land	Total
2017	\$18,130	\$76,720	\$94,850
2016	\$13,930	\$76,720	\$90,650
2012	\$9,590	\$76,720	\$86,310

108 Oakdale Ave



October 22, 2020

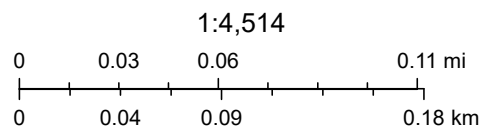


EXHIBIT 5



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

Radio Frequency Emissions Report

SITE NAME:

302506 Winchester CT 3

LOCATION:

Winsted, Connecticut

COMPANY:

**American Tower Corporation
Woburn, Massachusetts**

*October 15th, 2020
Revision 2*

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GREENVILLE, NORTH CAROLINA

RADIO FREQUENCY EMISSIONS REPORT

302506 Winchester CT 3

Winsted, 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 3rd, 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 302506 Winchester CT 3 is located at 15 Oakdale Avenue in Winsted, Connecticut at coordinates 41.92169, -73.04949. The support structure is a 186' monopole.

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 182' level. The structure already supports several antennas. This study only considers the new AT&T facility in detail.

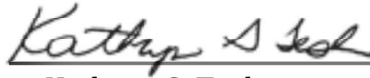
The load list may be seen in Appendix 1. Appendix 2 contains the AT&T channel counts, frequency bands, and power levels. AT&T Antenna information may be seen in Appendix 3.

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 15th, 2020
Revision 2

Kathryn G. Tesh
Wireless Services Manager



APPENDIX 1

Load List

Customer	RAD Height (ft)	Equipment Quantity	Equipment Type	Manufacturer	Model Number	Line Quantity	Line size	Mount Type	Azimuths	TX Power	ERP	TX Frequency	RX Frequency
AT&T MOBILITY	184	3	PANEL	CCI	OPA65R-BUGB	6	1 5/8" Coax	Platform with Handrails	23/143/263			1745-1755/1770-1780	2145-2155/2170-2180
AT&T MOBILITY	184	3	PANEL	CCI	HPA-65R-BUU-H6	0		Platform with Handrails	23/143/263			2300, 700, 850	2300, 700, 850
AT&T MOBILITY	184	3	PANEL	CCI	DMP65R-BU6DA	0		Platform with Handrails	23/143/263			704-716/758-763/824-845/869-890/1850-1865/1885-1910	728-746/788-793/845-849/890-894/1930-1945/1965-1990
OTHER	179	1	DISH-GRID		MF-900B			Low Profile Platform	0				
T-MOBILE	166	3	PANEL	Ericsson	AIR 21, 1.3M, B4A B2P			T-Arm	20/190/280			2130-2135	1730-1735
T-MOBILE	166	3	PANEL	Ericsson	AIR 21, 1.3 M, B2A B4P	6	1 5/8" Coax	T-Arm	20/190/280			1940-1945	1860-1865
T-MOBILE	166	3	PANEL	RFS	APXVAAR R24_43-U-NA20			T-Arm	20/190/280			622-627, 728-734	627-632, 698-704
LITCHFIELD COUNTY DISPATCH INC	150	1	DIPOLE		SD210-SF2P4SNM	1	1 5/8" Coax	Side Arm	270			156	156
CONNECTICUT STATE POLICE DEPT OF PUBLIC	147	1	OMNI	Sinclair	SC442D-HF1LDF(DXX-130-G9-NUFP)	2	1 5/8" Coax		360			851	806
CONNECTICUT STATE POLICE DEPT OF PUBLIC	146	2	OMNI	Decibel	DB809DKXT	4	1 5/8" Coax		360			851-853	806-808
CONNECTICUT STATE POLICE DEPT OF PUBLIC	146	1	OMNI	Sinclair	SC479-HF1LDF(E5765)	1	1 5/8" Coax		360			852	806-808
SPRINT NEXTEL	134	3	PANEL	RFS	APXVTM 14-C-120	1	7/8" (0.88"-22.2mm) Fiber	Low Profile Platform	20/120/260			2496-2690	2496-2690
SPRINT NEXTEL	134	3	PANEL	RFS	APXVSPP 18-C-A20	3	1 1/4" Hybriflex Cable		20/120/260			1950-1965, 1990-1995	1870-1885, 1910-1915
VERIZON WIRELESS	125	4	PANEL	Antel	LPA-80080/6CF	4	1 5/8" Coax	Low Profile Platform	340/120			869-880, 890-892	824-835, 845-847
VERIZON WIRELESS	125	6	PANEL	Commscope	JAHH-65B-R3B			Low Profile Platform	340/120/230			1970-1980, 2110-2130, 776-787, 869-880, 890-892	1710-1730, 1890-1900, 746-757, 824-835, 845-847
VERIZON WIRELESS	125	2	PANEL	Antel	LPA-80063/6CF	2	1 5/8" Coax	Low Profile Platform	230			869-880, 890-892	824-835, 845-847
EVERSOURCE ENERGY	97	1	OMNI	Andrew	DB586	1	7/8" Coax	Side Arm	270			938.3875, 939.9625	155.1075, 899.3875, 900.9625
EVERSOURCE ENERGY	93	1	OMNI	Andrew	DB586	1	7/8" Coax	Side Arm	270			938.3875, 939.9625	155.1075, 899.3875, 900.9625
CONNECTICUT STATE POLICE DEPT OF PUBLIC	80	1	DISH-STANDARD		PA6-65AC	1	EW63	Leg/Flush	150			6700	6700

APPENDIX 2

AT&T Channels Used

Antenna	Technology	Frequency Band	Channel Count	Transmitter Power per Channel (W)
AT&T A1	LTE	1700	2	40
AT&T A2	UMTS	850	2	40
AT&T A3	LTE	2300	2	25
AT&T A4	LTE	1700	1	40
AT&T A5	LTE	1700	1	40
AT&T A6	LTE	700	1	40
AT&T A7	LTE	700	1	40
AT&T A8	UMTS	850	1	40
AT&T A9	UMTS	850	1	40
AT&T A10	LTE	1800	1	40
AT&T A11	LTE	1900	1	40
AT&T B1	LTE	1900	2	40
AT&T B2	UMTS	850	2	40
AT&T B3	LTE	2300	2	25
AT&T B4	LTE	1700	1	40
AT&T B5	LTE	1700	1	40
AT&T B6	LTE	700	1	40
AT&T B7	LTE	700	1	40
AT&T B8	UMTS	850	1	40
AT&T B9	UMTS	850	1	40
AT&T B10	LTE	1800	1	40
AT&T B11	LTE	1900	1	40
AT&T C1	LTE	1900	2	40
AT&T C2	UMTS	850	2	40
AT&T C3	LTE	2300	2	25
AT&T C4	LTE	1700	1	40
AT&T C5	LTE	1700	1	40
AT&T C6	LTE	700	1	40
AT&T C7	LTE	700	1	40
AT&T C8	UMTS	850	1	40
AT&T C9	UMTS	850	1	40
AT&T C10	LTE	1800	1	40
AT&T C11	LTE	1900	1	40



APPENDIX 3

AT&T Antenna Information

Sector	Antenna Number	Antenna Make / Model	Antenna Centerline (ft)
A	AT&T A1	CCI HPA-65R-BUU-H6	182
A	AT&T A2	CCI HPA-65R-BUU-H6	182
A	AT&T A3	CCI HPA-65R-BUU-H6	182
A	AT&T A4	CCI OPA65R-BU6B	182
A	AT&T A5	CCI OPA65R-BU6B	182
A	AT&T A6	CCI DMP65R-BU6DA	182
A	AT&T A7	CCI DMP65R-BU6DA	182
A	AT&T A8	CCI DMP65R-BU6DA	182
A	AT&T A9	CCI DMP65R-BU6DA	182
A	AT&T A10	CCI DMP65R-BU6DA	182
A	AT&T A11	CCI DMP65R-BU6DA	182
B	AT&T B1	CCI HPA-65R-BUU-H6	182
B	AT&T B2	CCI HPA-65R-BUU-H6	182
B	AT&T B3	CCI HPA-65R-BUU-H6	182
B	AT&T B4	CCI OPA65R-BU6B	182
B	AT&T B5	CCI OPA65R-BU6B	182
B	AT&T B6	CCI DMP65R-BU6DA	182
B	AT&T B7	CCI DMP65R-BU6DA	182
B	AT&T B8	CCI DMP65R-BU6DA	182
B	AT&T B9	CCI DMP65R-BU6DA	182
B	AT&T B10	CCI DMP65R-BU6DA	182
B	AT&T B11	CCI DMP65R-BU6DA	182
C	AT&T C1	CCI HPA-65R-BUU-H6	182
C	AT&T C2	CCI HPA-65R-BUU-H6	182
C	AT&T C3	CCI HPA-65R-BUU-H6	182
C	AT&T C4	CCI OPA65R-BU6B	182
C	AT&T C5	CCI OPA65R-BU6B	182
C	AT&T C6	CCI DMP65R-BU6DA	182
C	AT&T C7	CCI DMP65R-BU6DA	182
C	AT&T C8	CCI DMP65R-BU6DA	182
C	AT&T C9	CCI DMP65R-BU6DA	182
C	AT&T C10	CCI DMP65R-BU6DA	182
C	AT&T C11	CCI DMP65R-BU6DA	182

APPENDIX 4

FCC OET-65 MPE Limit Study

Antenna ID	Antenna Make / Model	Frequency Band	Antenna Gain (dBd)	Antenna Height (ft)	Channel Count	Total TX Power (W)	ERP (W)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Allowable Public MPE ($\mu\text{W}/\text{cm}^2$)	Public MPE%
AT&T A1	CCI HPA-65R-BUU-H6	1700	14.15	182	2	40	1706.32	1.0504	1000.00	0.1050%
AT&T A2	CCI HPA-65R-BUU-H6	850	12.65	182	2	40	1207.98	3.5814	1000.00	0.6320%
AT&T A3	CCI HPA-65R-BUU-H6	2300	15.25	182	2	25	1373.85	0.8087	1000.00	0.0809%
AT&T A4	CCI OPA65R-BU6B	1700	18.10	182	1	40	4237.01	0.4603	1000.00	0.0460%
AT&T A5	CCI OPA65R-BU6B	1700	18.10	182	1	40	4237.01	0.4603	1000.00	0.0460%
AT&T A6	CCI DMP65R-BU6DA	700	14.00	182	1	40	1648.39	0.3382	1000.00	0.0725%
AT&T A7	CCI DMP65R-BU6DA	700	14.00	182	1	40	1648.39	0.3382	1000.00	0.0725%
AT&T A8	CCI DMP65R-BU6DA	850	14.60	182	1	40	1892.61	0.3884	1000.00	0.0685%
AT&T A9	CCI DMP65R-BU6DA	850	14.60	182	1	40	1892.61	0.3884	1000.00	0.0685%
AT&T A10	CCI DMP65R-BU6DA	1800	17.70	182	1	40	3864.20	1.4054	1000.00	0.1405%
AT&T A11	CCI DMP65R-BU6DA	1900	17.70	182	1	40	3864.20	1.4054	1000.00	0.1405%
AT&T B1	CCI HPA-65R-BUU-H6	1900	14.15	182	2	40	1706.32	1.0504	1000.00	0.1050%
AT&T B2	CCI HPA-65R-BUU-H6	850	12.65	182	2	40	1207.98	3.5814	1000.00	0.6320%
AT&T B3	CCI HPA-65R-BUU-H6	2300	15.25	182	2	25	1373.85	0.8087	1000.00	0.0809%
AT&T B4	CCI OPA65R-BU6B	1700	18.10	182	1	40	4237.01	0.4603	1000.00	0.0460%
AT&T B5	CCI OPA65R-BU6B	1700	18.10	182	1	40	4237.01	0.4603	1000.00	0.0460%
AT&T B6	CCI DMP65R-BU6DA	700	14.00	182	1	40	1648.39	0.3382	1000.00	0.0725%
AT&T B7	CCI DMP65R-BU6DA	700	14.00	182	1	40	1648.39	0.3382	1000.00	0.0725%
AT&T B8	CCI DMP65R-BU6DA	850	14.60	182	1	40	1892.61	0.3884	1000.00	0.0685%
AT&T B9	CCI DMP65R-BU6DA	850	14.60	182	1	40	1892.61	0.3884	1000.00	0.0685%
AT&T B10	CCI DMP65R-BU6DA	1800	17.70	182	1	40	3864.20	1.4054	1000.00	0.1405%
AT&T B11	CCI DMP65R-BU6DA	1900	17.70	182	1	40	3864.20	1.4054	1000.00	0.1405%
AT&T C1	CCI HPA-65R-BUU-H6	1900	14.15	182	2	40	1706.32	1.0504	1000.00	0.1050%
AT&T C2	CCI HPA-65R-BUU-H6	850	12.65	182	2	40	1207.98	3.5814	1000.00	0.6320%
AT&T C3	CCI HPA-65R-BUU-H6	2300	15.25	182	2	25	1373.85	0.8087	1000.00	0.0809%
AT&T C4	CCI OPA65R-BU6B	1700	18.10	182	1	40	4237.01	0.4603	1000.00	0.0460%
AT&T C5	CCI OPA65R-BU6B	1700	18.10	182	1	40	4237.01	0.4603	1000.00	0.0460%
AT&T C6	CCI DMP65R-BU6DA	700	14.00	182	1	40	1648.39	0.3382	1000.00	0.0725%
AT&T C7	CCI DMP65R-BU6DA	700	14.00	182	1	40	1648.39	0.3382	1000.00	0.0725%
AT&T C8	CCI DMP65R-BU6DA	850	14.60	182	1	40	1892.61	0.3884	1000.00	0.0685%
AT&T C9	CCI DMP65R-BU6DA	850	14.60	182	1	40	1892.61	0.3884	1000.00	0.0685%
AT&T C10	CCI DMP65R-BU6DA	1800	17.70	182	1	40	3864.20	1.4054	1000.00	0.1405%
AT&T C11	CCI DMP65R-BU6DA	1900	17.70	182	1	40	3864.20	1.4054	1000.00	0.1405%
AT&T All Sectors									Total:	4.4193%

APPENDIX 5

Summary of Power Density

AT&T Sector	Power Density Value (% of General Population)
AT&T All Sectors:	4.4193%
Other Carriers:	4.5262%
Site Total:	8.9455%
Site Compliance Status:	Compliant



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/cm²), 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 ²)	Averaging Time |E|², |H|² or S (minutes)
0.3 - 3.0	614	1.63	100*	6
3.0 - 30	1842/f	4.89/f	900/F ²	6
30 - 300	61.4	0.163	1.0	6
300 - 1500	--	--	f/300	6
1500 - 100,000	--	--	5	6

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 ²)	Averaging Time |E|², |H|² or S (minutes)
0.3 - 1.34	614	1.63	100*	30
1.34 - 30	824/f	2.19/f	180/F ²	30
30 - 300	27.5	0.073	0.2	30
300 - 1500	--	--	f/1500	30
1500 - 100,000	--	--	1.0	30

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

θ_{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

Structural Analysis Report

Structure : 180 ft Monopole
ATC Site Name : Winchester CT 3, CT
ATC Asset Number : 302506
Engineering Number : 13201995_C3_07
Proposed Carrier : AT&T MOBILITY
Carrier Site Name : MRCTB045239
Carrier Site Number : CTL01071
Site Location : 15 Oakdale Avenue
Winsted, CT 06098-1862
41.921700,-73.049500
County : Litchfield
Date : August 5, 2020
Max Usage : 98%
Result : Pass



Prepared By:
Hansol Shin
Structural Engineer I

Reviewed By:

COA: PEC.0001553



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Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 180 ft monopole to reflect the change in loading by AT&T MOBILITY.

Supporting Documents

Tower Drawings	EEI Job #7676, dated August 21, 2000
Foundation Drawing	SNET Project #F301804.10/F04, dated August 23, 2000 Mapping by SGS Job #1922084, dated August 6, 2019
Geotechnical Report	Welti Project: Whalen's Hill, dated February 8, 2000
Modifications	ATC Job #42523432, dated October 24, 2008 ATC Job #50492933, dated October 15, 2012
Mount Analysis	ATC Project #13201995_C8_01, dated May 1, 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.

Basic Wind Speed:	124 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	III
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Crest Height (H):	0 ft
Spectral Response:	$S_s = 0.18, S_1 = 0.06$
Site Class:	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. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.



Existing and Reserved Equipment

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
185.0	1	Generic 4' Omni		-	OTHER
184.0	3	Powerwave Allgon TT19-08BP111-001	-	(1) 0.39" (10mm) Fiber Trunk (1) 0.40" (10.3mm) Fiber (4) 0.78" (19.7mm) 8 AWG 6 (6) 1 5/8" Coax (1) 3" conduit	AT&T MOBILITY
	3	Powerwave Allgon LGP21401			
	3	Raycap DC6-48-60-18-8F (23.5" Height)			
	3	CCI HPA-65R-BUU-H6			
179.0	1	Kathrein Scala MF-900B		-	OTHER
166.0	3	Ericsson Radio 4449 B12,B71	T-Arm w/ Reinforcement	(2) 0.25" (6.4mm) Cat 6 UTP (1) 1 1/4" (1.25"- 31.8mm) Fiber (3) 1 5/8" (1.63"- 41.3mm) Fiber (6) 1 5/8" Coax (1) 1.4" (35.6mm) Hybrid	T-MOBILE
	1	Fastback Networks Intelligent Backhaul Radio 1300 Series			
	3	Ericsson AIR 21, 1.3 M, B2A B4P			
	3	RFS APXVAARR24_43-U-NA20			
	3	Ericsson AIR 21, 1.3M, B4A B2P			
150.0	1	Sinclair SD210-SF2P4SNM	Side Arm	(1) 1 5/8" Coax	LITCHFIELD COUNTY DISPATCH INC
147.0	1	Sinclair SC442D-HF1LDF(DXX-I30-G9-NUFP)	Side Arm	(8) 1 5/8" Coax (1) 7/8" Coax (2) 1/2" Coax	CONNECTICUT STATE POLICE DEPT OF PUBLIC
146.0	1	Sinclair SC479-HF1LDF(E5765)			
	2	Decibel DB809DK-XT			
142.0	1	Telewave ANT150D (5 lbs)			
141.0	1	Bird 432-83H-01-T			
134.0	3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield	Platform with Handrails	(3) 1 1/4" Hybriflex Cable (1) 7/8" (0.88"- 22.2mm) Fiber	SPRINT NEXTEL
	3	RFS APXVTM14-C-I20			
	3	RFS APXVSP18-C-A20			
132.0	3	Alcatel-Lucent 1900MHz RRH			
	3	Alcatel-Lucent 800 MHz RRH w/ Notch Filter			
125.0	3	Alcatel-Lucent B13 RRH4x30-4R	Low Profile Platform	(6) 1 5/8" Coax (1) 1 5/8" Hybriflex	VERIZON WIRELESS
	3	Nokia B66a RRH4x45 (UHIE)			
	1	Raycap RCMDC-6627-PF-48			
	4	Antel LPA-80080/6CF			
	3	Alcatel-Lucent B25 RRH4x30			
	3	Nokia AHCA AirScale RRH 4T4R B5 160W			
	6	Commscope JAHH-65B-R3B			
	2	Antel LPA-80063/6CF			
115.0	12	Decibel DB844H90E-XY	Low Profile Platform	(12) 1 1/4" Coax	SPRINT NEXTEL
105.0	3	RFS APXV18-206517S-C	Flush	(6) 1 5/8" Coax	METRO PCS INC



Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
97.0	1	Andrew DB586	Side Arm	(2) 7/8" Coax (1) 1/2" Coax	EVERSOURCE ENERGY
95.0	1	Bird 429-83H-01-T			
93.0	1	Andrew DB586			
80.0	1	RFS PA6-65AC	Flush	(1) EW63	CONNECTICUT STATE POLICE DEPT OF PUBLIC
78.0	1	PCTEL GPS-TMG-HR-26N	Flush	(1) 1/2" Coax	SPRINT NEXTEL
30.0	1	Generic GPS	Stand-Off	(1) 7/8" Coax	VERIZON WIRELESS

Equipment to be Removed

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
184.0	3	KMW AM-X-CD-16-65-00T-RET	-	(6) 1 5/8" Coax (2) 0.39" (10mm) Fiber Trunk	AT&T MOBILITY
	3	Powerwave Allgon 7770.00			
	1	Andrew ABT-D MDF-ADBH			
	3	Ericsson RRUS-12 B2			
	3	Ericsson RRUS 32 (50.8 lbs)			
	3	Ericsson RRUS 11 (Band 12)			
	3	Raycap DC6-48-60-18-8F (23.5" Height)			

Proposed Equipment

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
184.0	3	CCI DMP65R-BU6DA	Low Profile Platform w/ Site Pro 1 HRK Handrail Kit	(1) 0.39" (10mm) Fiber Trunk	AT&T MOBILITY
	3	Ericsson RRUS 4449 B5, B12			
	3	Ericsson RRUS 8843 B2, B66A			
	2	Ericsson RRUS 4478 B14			
	3	Ericsson RRUS E2 B29			
	3	Ericsson RRUS 32 B30			
	2	Kaelus DBC0061F1V51-2			
	3	CCI OPA65R-BU6B			

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

Install proposed coax inside the pole shaft.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	79%	Pass
Shaft	98%	Pass
Base Plate	40%	Pass
Reinforcement	89%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	5,602.9	29%
Axial (Kips)	66.9	4%

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 and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
184.0	Kaelus DBC0061F1V51-2	AT&T MOBILITY	2.888	2.040
	Ericsson RRUS 8843 B2, B66A			
	Ericsson RRUS 4478 B14			
	Ericsson RRUS 4449 B5, B12			
	Ericsson RRUS 32 B30			
	Ericsson RRUS E2 B29			
	CCI OPA65R-BU6B			
	CCI DMP65R-BU6DA			
179.0	Kathrein Scala MF-900B	OTHER	2.852	2.036
80.0	RFS PA6-65AC	CONNECTICUT STATE POLICE DEPT OF PUBLIC	0.498	0.727

*Deflection 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:

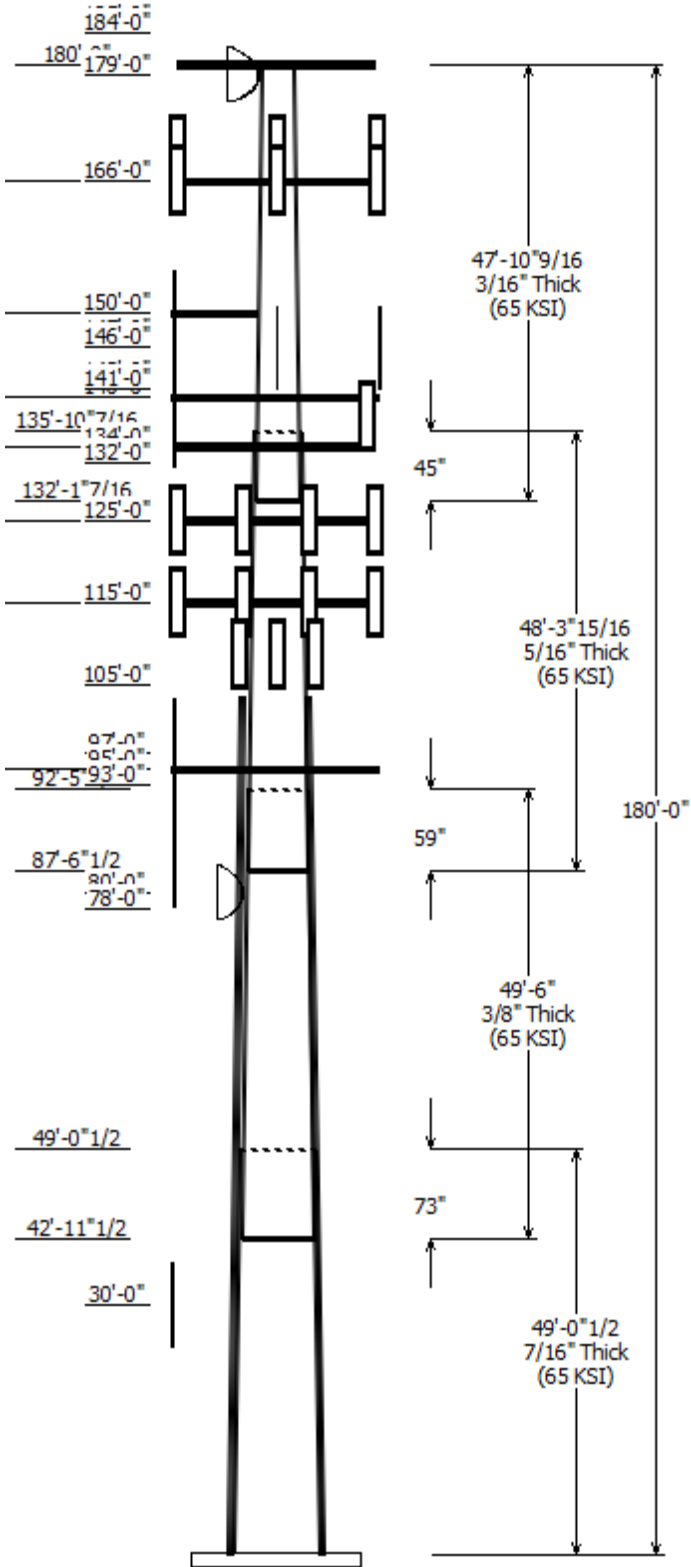
- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

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.

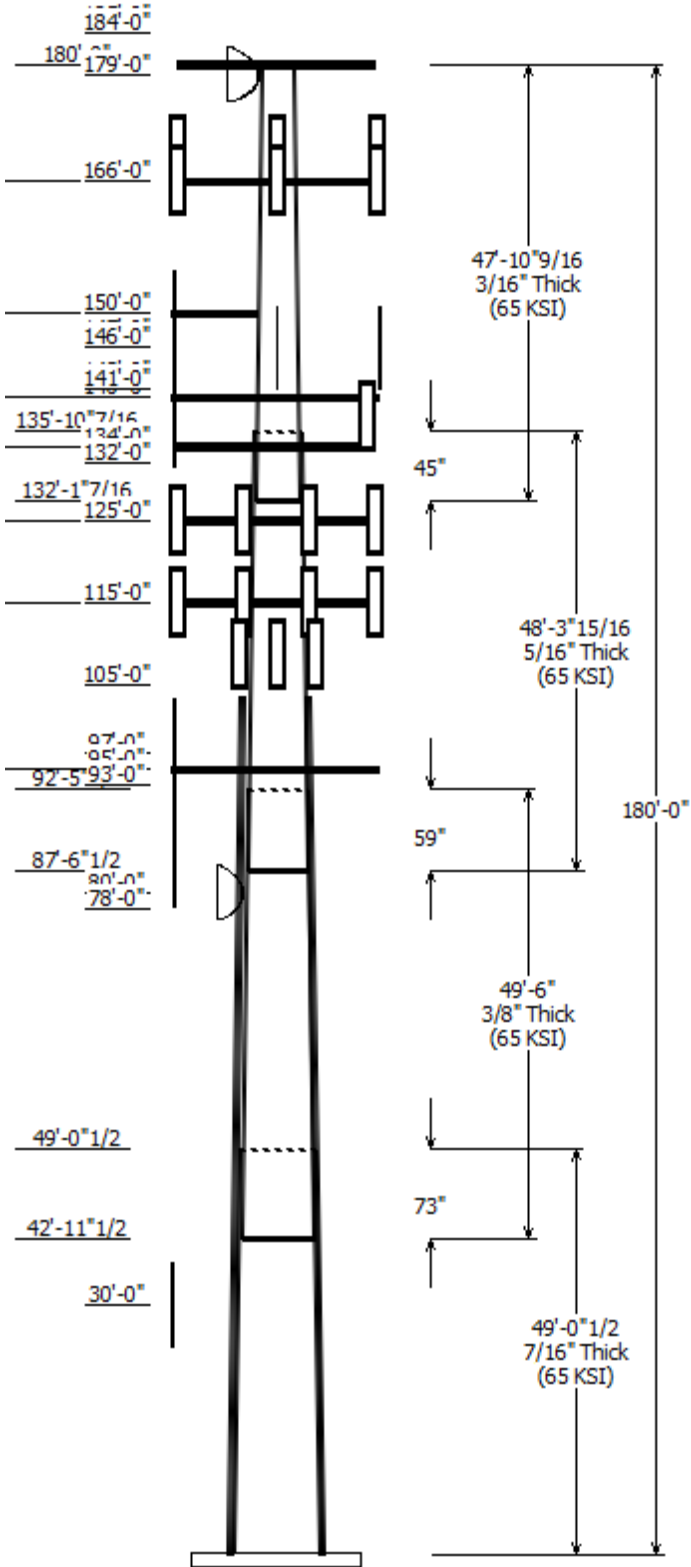


Job Information	
Client : AT&T MOBILITY	Code: ANSI/TIA-222-H
Pole : 302506	
Location : Winchester CT 3, CT	
Description : 180 ft EEI Monopole	Risk Category : III
Shape : 18 Sides	Exposure : B
Height : 180.00 (ft)	Topo Method : Method 1
Base Elev (ft): 0.00	Topographic Category : 1
Taper: 0.21944(in/ft)	

Sections Properties						
Shaft Section	Length (ft)	Diameter (in)		Thick Joint (in)	Overlap Length (in)	Steel Grade
		Across Flats Top	Across Flats Bottom			
1	49.040	41.98	52.75	0.438	0.000	18 Sides 65
2	49.500	33.21	44.07	0.375	73.000	18 Sides 65
3	48.330	24.30	34.91	0.313	59.000	18 Sides 65
4	47.880	15.00	25.50	0.188	45.000	18 Sides 65

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
185.000	185.000	1	Generic 4' Omni
184.000	184.000	3	CCI OPA65R-BU6B
184.000	182.000	3	CCI HPA-65R-BUU-H6
184.000	184.000	3	Raycap DC6-48-60-18-8F (23.5"
184.000	182.000	3	Powerwave Allgon LGP21401
184.000	182.000	3	Powerwave Allgon TT19-
184.000	184.000	2	Kaelus DBC0061F1V51-2
184.000	184.000	3	Ericsson RRUS 32 B30
184.000	184.000	3	Ericsson RRUS E2 B29
184.000	184.000	2	Ericsson RRUS 4478 B14
184.000	184.000	3	Ericsson RRUS 8843 B2, B66A
184.000	184.000	3	Ericsson RRUS 4449 B5, B12
184.000	184.000	3	CCI DMP65R-BU6DA
180.000	180.000	1	Flat Platform w/ Handrails
179.000	179.000	1	Kathrein Scala MF-900B
166.000	166.000	3	Round T-Arm w/
166.000	166.000	3	RFS APXVAARR24_43-U-NA20
166.000	167.000	3	Ericsson AIR 21, 1.3M, B4A B2P
166.000	167.000	3	Ericsson AIR 21, 1.3 M, B2A B4
166.000	166.000	3	Ericsson Radio 4449 B12,B71
166.000	166.000	1	Fastback Networks Intelligent
150.000	150.000	1	Round Side Arm
150.000	150.000	1	Sinclair SD210-SF2P4SNM
147.000	146.000	1	Sinclair SC442D-HF1LDF(DXX-
146.000	146.000	2	Decibel DB809DK-XT
146.000	146.000	1	Sinclair SC479-HF1LDF(E5765)
142.000	141.000	1	Telewave ANT150D (5 lbs)
141.000	141.000	1	Bird 432-83H-01-T
140.000	140.000	3	Round Side Arm
134.000	134.000	1	Flat Platform w/ Handrails
134.000	135.000	3	RFS APXVSP18-C-A20
134.000	135.000	3	RFS APXVTM14-C-I20
134.000	135.000	3	Alcatel-Lucent TD-RRH8x20-25
132.000	135.000	3	Alcatel-Lucent 1900MHz RRH
132.000	135.000	3	Alcatel-Lucent 800 MHz RRH
125.000	125.000	1	Round Low Profile Platform
125.000	125.000	2	Antel LPA-80063/6CF
125.000	125.000	6	Commscope JAHH-65B-R3B
125.000	125.000	4	Antel LPA-80080/6CF
125.000	125.000	1	Raycap RCMD-6627-PF-48
125.000	125.000	3	Nokia B66a RRH4x45 (UHIE)
125.000	125.000	3	Alcatel-Lucent B13 RRH4x30-4R
125.000	125.000	3	Alcatel-Lucent B25 RRH4x30
125.000	125.000	3	Nokia AHCA AirScale RRH 4T4R

115.000	115.000	1	Round Low Profile Platform
115.000	115.000	12	Decibel DB844H90E-XY
105.000	106.000	3	RFS APXV18-206517S-C
97.000	96.000	1	Andrew DB586
95.000	95.000	3	Flat Side Arm
95.000	96.000	1	Bird 429-83H-01-T
93.000	96.000	1	Andrew DB586
80.000	80.000	1	RFS PA6-65AC
78.000	79.000	1	PCTEL GPS-TMG-HR-26N
30.000	30.000	1	Generic GPS



Linear Appurtenance			
Elev (ft)		Description	Exposed To Wind
From	To		
0.000	30.000	7/8" Coax	No
0.000	78.000	1/2" Coax	No
0.000	80.000	EW63	No
0.000	93.000	7/8" Coax	No
0.000	95.000	1/2" Coax	No
0.000	97.000	7/8" Coax	No
0.000	105.0	1 5/8" Coax	Yes
0.000	112.0	#20 Dywidag Bar	Yes
0.000	112.0	#20 Dywidag Bar	Yes
0.000	112.0	#20 Dywidag Bar	Yes
0.000	112.0	#20 Dywidag Bar	Yes
0.000	115.0	1 1/4" Coax	Yes
0.000	125.0	1 5/8" Coax	Yes
0.000	125.0	1 5/8" Hybriflex	No
0.000	134.0	1 1/4" Hybriflex	No
0.000	134.0	7/8" (0.88"-	No
0.000	141.0	1 5/8" Coax	No
0.000	141.0	1/2" Coax	No
0.000	141.0	1/2" Coax	No
0.000	142.0	7/8" Coax	No
0.000	146.0	1 5/8" Coax	No
0.000	147.0	1 5/8" Coax	No
0.000	150.0	1 5/8" Coax	No
0.000	166.0	0.25" (6.4mm) Cat	No
0.000	166.0	1 1/4" (1.25"-	Yes
0.000	166.0	1 5/8" (1.63"-	No
0.000	166.0	1 5/8" Coax	Yes
0.000	166.0	1.4" (35.6mm)	Yes
0.000	184.0	0.39" (10mm)	No
0.000	184.0	0.40" (10.3mm)	No
0.000	184.0	0.78" (19.7mm) 8	No
0.000	184.0	1 5/8" Coax	No
0.000	184.0	3" conduit	No

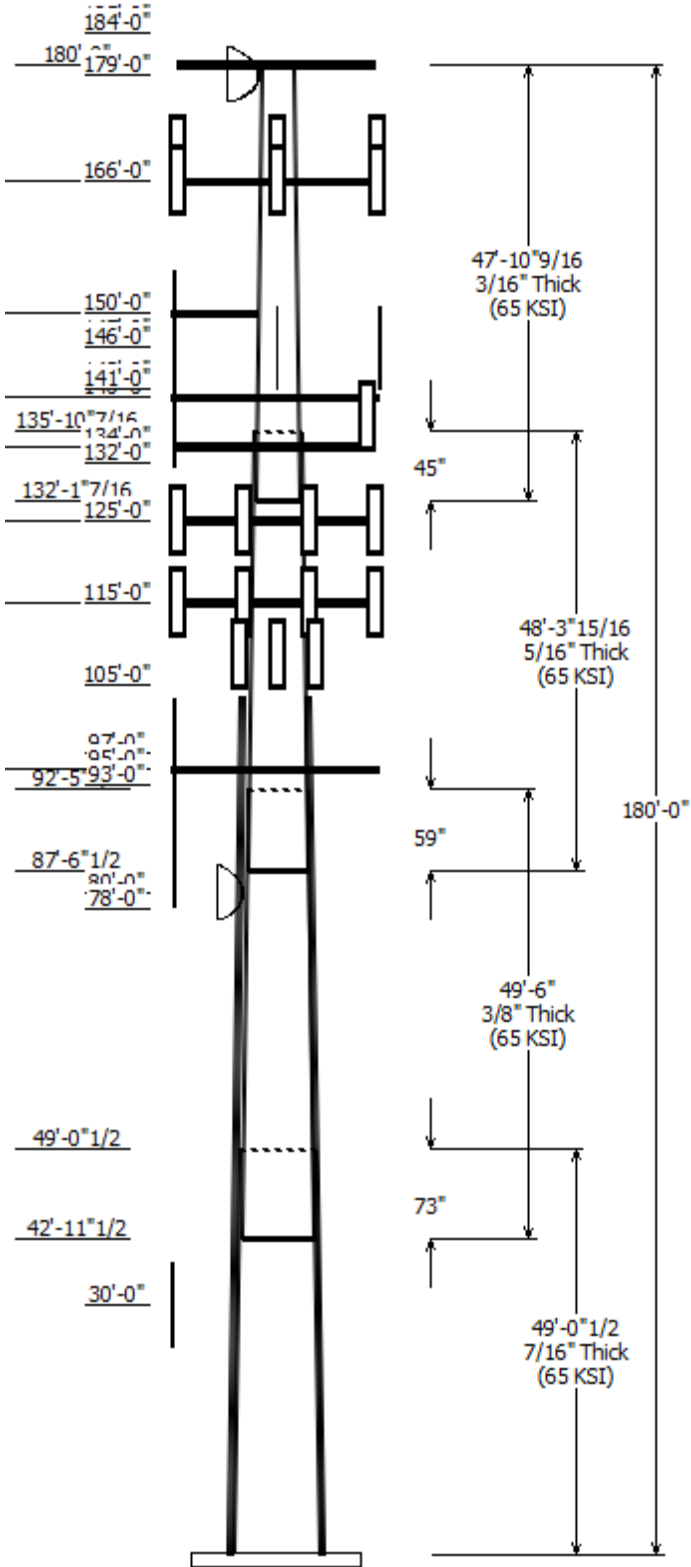
Load Cases	
1.2D + 1.0W	124 mph with No Ice
0.9D + 1.0W	124 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.0W	5602.88	49.19	66.88
0.9D + 1.0W	5520.20	49.16	50.13
1.2D + 1.0Di + 1.0Wi	1152.50	8.96	98.23

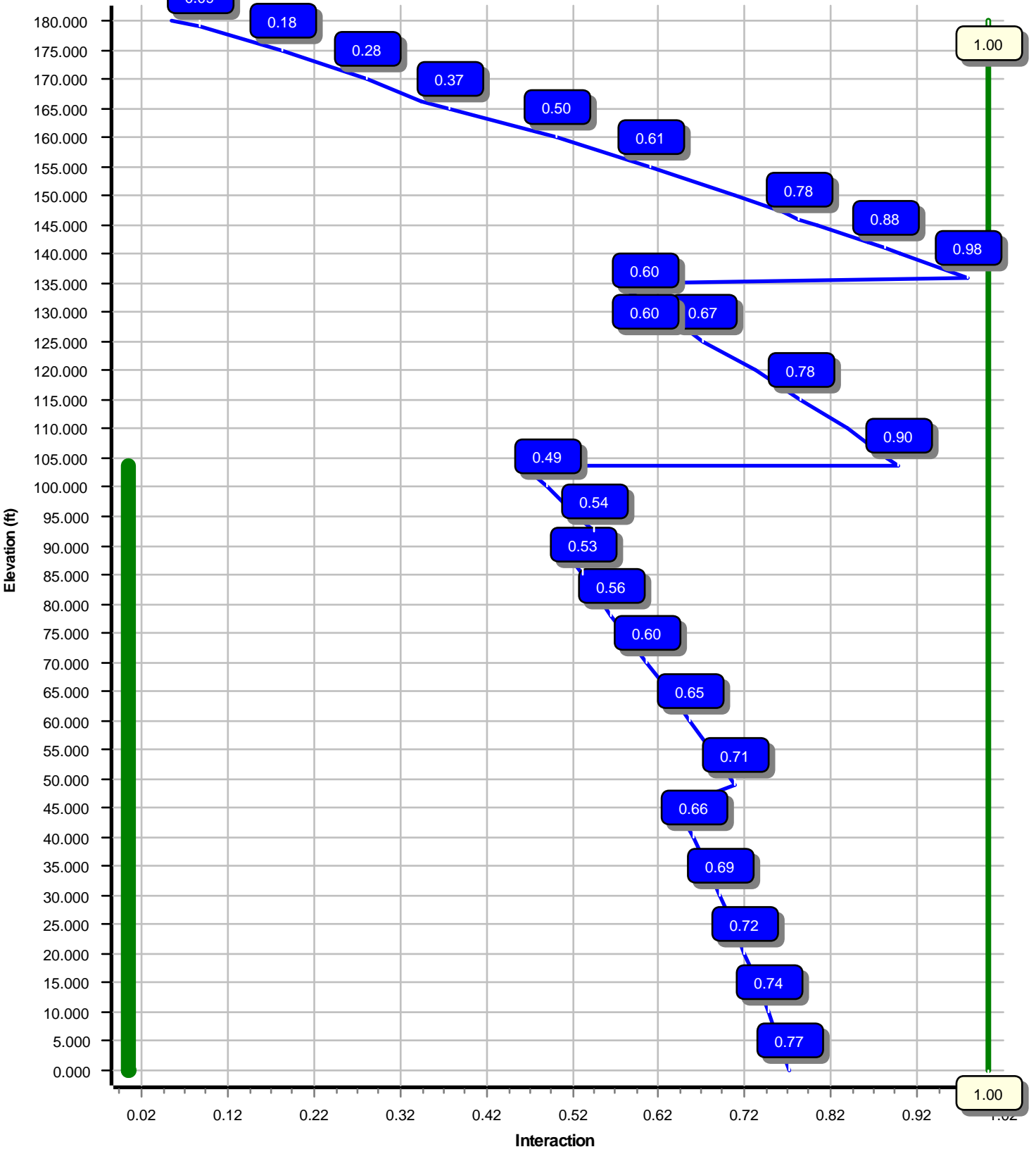
1.2D + 1.0Ev + 1.0Eh	241.27	1.68	66.79
0.9D - 1.0Ev + 1.0Eh	236.46	1.68	46.53
1.0D + 1.0W	1165.47	10.30	55.81

Dish Deflections

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	80.00	6.756	0.824
1.0D + 1.0W	179.00	38.867	2.306



Load Case : 1.2D + 1.0W
Max Ratio 97.55% at 135.9 ft



Site Number: 302506

Code: ANSI/TIA-222-H

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Site Name: Winchester CT 3, CT

Engineering Number:13201995_C3_07

8/5/2020 8:43:44 PM

Customer: AT&T MOBILITY

Analysis Parameters

Location :	Litchfield County, CT	Height (ft) :	180
Code :	ANSI/TIA-222-H	Base Diameter (in) :	52.75
Shape :	18 Sides	Top Diameter (in) :	15.00
Pole Type :	Taper	Taper (in/ft) :	0.219
Pole Manufacturer :	EEL	Rotation (deg) :	0.00
Kd (non-service) :	0.95	Ke :	0.96

Ice & Wind Parameters

Exposure Category:	B	Design Wind Speed Without Ice:	124 mph
Risk Category:	III	Design Wind Speed With Ice:	50 mph
Topographic Factor Procedure:	Method 1	Operational Wind Speed:	60 mph
Topographic Category:	1	Design Ice Thickness:	1.00 in
Crest Height:	0 ft	HMSL:	1073.00 ft

Seismic Parameters

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil		
Period Based on Rayleigh Method (sec):	2.93		
T _L (sec):	6	p:	1
S _s :	0.177	S ₁ :	0.065
F _a :	1.600	F _v :	2.400
S _{ds} :	0.189	S _{d1} :	0.104
		C _s :	0.030
		C _s Max:	0.030
		C _s Min:	0.030

Load Cases

1.2D + 1.0W	124 mph with No Ice
0.9D + 1.0W	124 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

Site Number: 302506

Code: ANSI/TIA-222-H

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Site Name: Winchester CT 3, CT

Engineering Number:13201995_C3_07

8/5/2020 8:43:44 PM

Customer: AT&T MOBILITY

Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint Len (in)	Weight (lb)	Bottom					Top					Taper (in/ft)		
							Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)		W/t Ratio	D/t Ratio
1-18	49.040	0.4375	65		0.00	10,875	52.75	0.00	72.64	25115.3	19.85	120.57	41.98	49.04	57.70	12585.4	15.51	95.97	0.219444
2-18	49.500	0.3750	65	Slip	73.00	7,672	44.07	42.96	52.01	12548.0	19.31	117.53	33.21	92.46	39.08	5323.8	14.21	88.56	0.219444
3-18	48.330	0.3125	65	Slip	59.00	4,779	34.91	87.54	34.32	5191.7	18.29	111.73	24.30	135.87	23.80	1731.6	12.31	77.79	0.219444
4-18	47.880	0.1875	65	Slip	45.00	1,946	25.50	132.12	15.07	1220.4	22.58	136.04	15.00	180.00	8.81	244.4	12.70	80.00	0.219444
Shaft Weight						25,271													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	Weight (lb)	No Ice EPAa (sf)	Orientation Factor	Weight (lb)	Ice EPAa (sf)	Orientation Factor
185.00	Generic 4' Omni	1	1.00	0.000	10.00	1.000	1.00	34.41	1.675	1.00
184.00	Kaelus DBC0061F1V51-2	2	0.75	0.000	25.50	0.433	0.50	39.95	0.785	0.50
184.00	Powerwave Allgon TT19-	3	0.75	-2.000	16.00	0.553	0.50	31.80	0.953	0.50
184.00	Powerwave Allgon LGP21401	3	0.75	-2.000	14.10	1.104	0.50	33.61	1.662	0.50
184.00	Raycap DC6-48-60-18-8F (23.5"	3	0.75	0.000	20.00	1.260	1.00	61.18	1.775	1.00
184.00	Ericsson RRUS 8843 B2, B66A	3	0.75	0.000	72.00	1.639	0.50	119.94	2.300	0.50
184.00	Ericsson RRUS 4478 B14	2	0.75	0.000	59.90	1.842	0.50	103.15	2.544	0.50
184.00	Ericsson RRUS 4449 B5, B12	3	0.75	0.000	71.00	1.969	0.50	121.41	2.699	0.50
184.00	Ericsson RRUS 32 B30	3	0.75	0.000	60.00	2.743	0.50	117.54	3.658	0.50
184.00	Ericsson RRUS E2 B29	3	0.75	0.000	60.00	3.145	0.50	123.26	4.052	0.50
184.00	CCI OPA65R-BU6B	3	0.75	0.000	55.00	7.851	0.72	198.01	10.007	0.72
184.00	CCI HPA-65R-BUU-H6	3	0.75	-2.000	51.00	9.658	0.69	222.60	11.826	0.69
184.00	CCI DMP65R-BU6DA	3	0.75	0.000	79.40	12.709	0.63	280.88	14.890	0.63
180.00	Flat Platform w/ Handrails	1	1.00	0.000	2,000.00	42.400	1.00	3,111.57	58.803	1.00
179.00	Kathrein Scala MF-900B	1	1.00	0.000	13.00	2.610	1.00	97.31	11.471	1.00
166.00	Fastback Networks Intelligent	1	0.80	0.000	8.80	0.672	1.00	23.43	1.102	1.00
166.00	Ericsson Radio 4449 B12,B71	3	0.80	0.000	74.00	1.639	0.50	117.44	2.294	0.50
166.00	Ericsson AIR 21, 1.3 M, B2A B4P	3	0.80	1.000	83.00	6.049	0.71	196.23	7.726	0.71
166.00	Ericsson AIR 21, 1.3M, B4A B2P	3	0.80	1.000	81.50	6.092	0.70	194.31	7.771	0.70
166.00	Round T-Arm w/ Reinforcement	3	0.75	0.000	405.00	9.700	0.67	667.68	16.096	0.67
166.00	RFS APXVAARR24_43-U-NA20	3	0.80	0.000	127.90	20.243	0.63	432.48	23.121	0.63
150.00	Sinclair SD210-SF2P4SNM	1	1.00	0.000	8.30	1.370	1.00	43.87	4.854	1.00
150.00	Round Side Arm	1	1.00	0.000	150.00	5.200	1.00	206.14	7.285	1.00
147.00	Sinclair SC442D-HF1LDF(DXX-	1	1.00	-1.000	79.00	10.479	1.00	269.45	16.208	1.00
146.00	Sinclair SC479-HF1LDF(E5765)	1	1.00	0.000	34.00	5.030	1.00	129.08	8.965	1.00
146.00	Decibel DB809DK-XT	2	1.00	0.000	64.00	6.350	1.00	185.81	12.086	1.00
142.00	Telewave ANT150D (5 lbs)	1	1.00	-1.000	5.00	1.090	1.00	9.53	2.751	1.00
141.00	Bird 432-83H-01-T	1	0.80	0.000	25.00	1.400	1.00	58.09	1.998	1.00
140.00	Round Side Arm	3	1.00	0.000	150.00	5.200	0.67	205.73	7.270	0.67
134.00	Alcatel-Lucent TD-RRH8x20-25	3	0.75	1.000	70.00	4.046	0.50	141.74	5.054	0.50
134.00	RFS APXVTM14-C-I20	3	0.75	1.000	52.90	6.342	0.66	157.41	7.995	0.66
134.00	RFS APXVSP18-C-A20	3	0.75	1.000	57.00	8.024	0.69	187.94	10.141	0.69
134.00	Flat Platform w/ Handrails	1	1.00	0.000	2,000.00	31.600	1.00	3,078.80	43.465	1.00
132.00	Alcatel-Lucent 800 MHz RRH w/	3	0.75	3.000	61.80	2.495	0.50	130.32	3.284	0.50
132.00	Alcatel-Lucent 1900MHz RRH	3	0.75	3.000	44.00	3.258	0.50	126.57	4.159	0.50
125.00	Nokia AHCA AirScale RRH 4T4R	3	0.80	0.000	35.30	1.286	0.50	64.90	1.853	0.50
125.00	Alcatel-Lucent B25 RRH4x30	3	0.80	0.000	53.00	2.120	0.50	98.45	2.867	0.50
125.00	Alcatel-Lucent B13 RRH4x30-4R	3	0.80	0.000	57.80	2.140	0.50	109.73	2.892	0.50
125.00	Nokia B66a RRH4x45 (UHIE)	3	0.80	0.000	56.80	2.537	0.50	109.56	3.381	0.50
125.00	Raycap RCMDC-6627-PF-48	1	0.80	0.000	32.00	4.056	0.50	127.68	5.083	0.50
125.00	Antel LPA-80080/6CF	4	0.80	0.000	21.00	8.628	0.62	160.39	5.193	0.62
125.00	Commscope JAHH-65B-R3B	6	0.80	0.000	60.60	9.113	0.69	212.90	11.202	0.69
125.00	Antel LPA-80063/6CF	2	0.80	0.000	27.00	9.593	0.82	235.66	10.600	0.82
125.00	Round Low Profile Platform	1	1.00	0.000	1,500.00	21.700	1.00	1,987.76	36.154	1.00
115.00	Decibel DB844H90E-XY	12	0.80	0.000	14.00	3.615	0.73	91.29	3.687	0.73
115.00	Round Low Profile Platform	1	1.00	0.000	1,500.00	21.700	1.00	1,983.62	36.031	1.00
105.00	RFS APXV18-206517S-C	3	1.00	1.000	26.40	5.160	0.68	95.05	6.912	0.68

Site Number: 302506

Code: ANSI/TIA-222-H

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Site Name: Winchester CT 3, CT

Engineering Number:13201995_C3_07

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Customer: AT&T MOBILITY

97.00	Andrew DB586	1	1.00	-1.000	8.30	0.740	1.00	8.30	0.740	1.00
95.00	Bird 429-83H-01-T	1	0.80	1.000	20.00	0.917	0.50	43.42	1.459	0.50
95.00	Flat Side Arm	3	1.00	0.000	150.00	6.300	0.67	203.63	8.102	0.67
93.00	Andrew DB586	1	1.00	3.000	8.30	0.740	1.00	8.30	0.740	1.00
80.00	RFS PA6-65AC	1	1.00	0.000	278.00	47.050	1.00	618.49	50.356	1.00
78.00	PCTEL GPS-TMG-HR-26N	1	1.00	1.000	0.60	0.090	1.00	4.08	0.219	1.00
30.00	Generic GPS	1	1.00	0.000	10.00	0.900	1.00	28.97	1.315	1.00
Totals	Num Loadings:54	131			14,913.40			29,664.16		

Linear Appurtenance Properties

Load Case Azimuth (deg) : 50

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Max Coax / Flat Row	Dist Between Rows (in)	Dist Between Cols (in)	Azimuth (deg)	Dist From Face (in)	Exposed To Wind	Carrier
0.00	184.00	2	0.39" (10mm) Fiber	0.39	0.06	N 0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	184.00	1	0.40" (10.3mm) Fiber	0.40	0.09	N 0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	184.00	4	0.78" (19.7mm) 8 AWG	0.78	0.59	N 0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	184.00	6	1 5/8" Coax	1.98	0.82	N 0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	184.00	1	3" conduit	3.50	7.58	N 0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	166.00	2	0.25" (6.4mm) Cat 6	0.25	0.04	N 0	0.00	0.00	0	0.00	N	T-MOBILE
0.00	166.00	1	1 1/4" (1.25"- 31.8mm)	1.25	1.05	N 1	0.50	0.50	30	5.46	Y	T-MOBILE
0.00	166.00	3	1 5/8" (1.63"-41.3mm)	1.63	1.61	N 0	0.00	0.00	0	0.00	N	T-MOBILE
0.00	166.00	6	1 5/8" Coax	1.98	0.82	N 3	0.50	0.50	30	0.50	Y	T-MOBILE
0.00	166.00	1	1.4" (35.6mm) Hybrid	1.40	1.30	N 1	0.50	0.50	20	0.50	Y	T-MOBILE
0.00	150.00	1	1 5/8" Coax	1.98	0.82	N 0	0.00	0.00	0	0.00	N	LITCHFIELD COUNTY
0.00	147.00	2	1 5/8" Coax	1.98	0.82	N 0	0.00	0.00	0	0.00	N	CONNECTICUT
0.00	146.00	5	1 5/8" Coax	1.98	0.82	N 0	0.00	0.00	0	0.00	N	CONNECTICUT
0.00	142.00	1	7/8" Coax	1.09	0.33	N 0	0.00	0.00	0	0.00	N	CONNECTICUT
0.00	141.00	1	1 5/8" Coax	1.98	0.82	N 0	0.00	0.00	0	0.00	N	CONNECTICUT
0.00	141.00	1	1/2" Coax	0.63	0.15	N 0	0.00	0.00	0	0.00	N	CONNECTICUT
0.00	141.00	1	1/2" Coax	0.63	0.15	N 0	0.00	0.00	0	0.00	N	CONNECTICUT
0.00	134.00	3	1 1/4" Hybriflex Cable	1.54	1.00	N 3	0.00	0.00	0	0.00	N	SPRINT NEXTEL
0.00	134.00	1	7/8" (0.88"- 22.2mm)	0.88	0.70	N 0	0.00	0.00	0	0.00	N	SPRINT NEXTEL
0.00	125.00	6	1 5/8" Coax	1.98	0.82	N 3	0.50	0.50	210	0.50	Y	VERIZON WIRELESS
0.00	125.00	1	1 5/8" Hybriflex	1.98	1.30	N 0	0.00	0.00	0	0.00	N	VERIZON WIRELESS
0.00	115.00	12	1 1/4" Coax	1.55	0.63	N 5	0.50	0.50	240	0.00	Y	SPRINT NEXTEL
0.00	112.00	1	#20 Dywidag Bar	4.00	0.00	N 1	0.00	0.00	280	0.00	Y	
0.00	112.00	1	#20 Dywidag Bar	4.00	0.00	N 1	0.00	0.00	190	0.00	Y	
0.00	112.00	1	#20 Dywidag Bar	4.00	0.00	N 1	0.00	0.00	10	0.00	Y	
0.00	112.00	1	#20 Dywidag Bar	4.00	0.00	N 1	0.00	0.00	100	0.00	Y	
0.00	105.00	6	1 5/8" Coax	1.98	0.82	N 3	0.50	0.50	50	0.50	Y	METRO PCS INC
0.00	97.00	1	7/8" Coax	1.09	0.33	N 0	0.00	0.00	0	0.00	N	EVERSOURCE
0.00	95.00	1	1/2" Coax	0.63	0.15	N 0	0.00	0.00	0	0.00	N	EVERSOURCE
0.00	93.00	1	7/8" Coax	1.09	0.33	N 1	0.00	0.00	0	0.00	N	EVERSOURCE
0.00	80.00	1	EW63	2.01	0.51	N 0	0.00	0.00	0	0.00	N	CONNECTICUT
0.00	78.00	1	1/2" Coax	0.63	0.15	N 1	0.00	0.00	0	0.00	N	SPRINT NEXTEL
0.00	30.00	1	7/8" Coax	1.09	0.33	N 0	0.00	0.00	0	0.00	N	VERIZON WIRELESS

Site Number: 302506

Code: ANSI/TIA-222-H

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Site Name: Winchester CT 3, CT

Engineering Number: 13201995_C3_07

8/5/2020 8:43:45 PM

Customer: AT&T MOBILITY

Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	Intermediate Connections Description	Spacing (in)	Len (in)	Connectors	Continuation?
0.00	103.7	4	SOL #20 All Thread	80	2.19	6" Angle Bracket	30.0	3.13	5/8" A36 U-Bolt	No

Segment Properties (Max Len : 5. ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in ³)	Z (in ³)	Weight (lb)	Additional Reinforcing		
												Area (in ²)	Ix (in ⁴)	Weight (lb)
0.00		0.4375	52.750	72.640	25,115.3	19.85	120.57	78.1	937.8	0.0	0.0	19.64	8,737	0.0
5.00		0.4375	51.653	71.116	23,567.9	19.41	118.06	78.6	898.7	0.0	1,222.9	19.64	8,418	334.0
10.00		0.4375	50.556	69.593	22,085.4	18.96	115.56	79.1	860.4	0.0	1,197.0	19.64	8,106	334.0
15.00		0.4375	49.458	68.069	20,666.4	18.52	113.05	79.6	823.0	0.0	1,171.1	19.64	7,799	334.0
20.00		0.4375	48.361	66.546	19,309.5	18.08	110.54	80.1	786.4	0.0	1,145.2	19.64	7,499	334.0
25.00		0.4375	47.264	65.022	18,013.3	17.64	108.03	80.7	750.7	0.0	1,119.2	19.64	7,204	334.0
30.00		0.4375	46.167	63.498	16,776.5	17.20	105.52	81.2	715.7	0.0	1,093.3	19.64	6,915	334.0
35.00		0.4375	45.069	61.975	15,597.7	16.75	103.02	81.7	681.6	0.0	1,067.4	19.64	6,633	334.0
40.00		0.4375	43.972	60.451	14,475.4	16.31	100.51	82.2	648.4	0.0	1,041.5	19.64	6,356	334.0
42.96	Bot - Section 2	0.4375	43.323	59.550	13,837.8	16.05	99.02	82.5	629.1	0.0	603.6	19.64	6,195	197.5
45.00		0.4375	42.875	58.928	13,408.2	15.87	98.00	82.6	616.0	0.0	771.7	19.64	6,269	136.5
49.04	Top - Section 1	0.3750	42.738	50.421	11,432.7	18.69	113.97	79.4	526.9	0.0	1,502.0	19.64	6,051	269.9
50.00		0.3750	42.528	50.171	11,263.0	18.59	113.41	79.5	521.6	0.0	164.3	19.64	6,000	64.1
55.00		0.3750	41.431	48.865	10,406.2	18.07	110.48	80.1	494.7	0.0	842.5	19.64	5,737	334.0
60.00		0.3750	40.333	47.559	9,594.0	17.55	107.56	80.8	468.5	0.0	820.3	19.64	5,480	334.0
65.00		0.3750	39.236	46.253	8,825.1	17.04	104.63	81.4	443.0	0.0	798.0	19.64	5,228	334.0
70.00		0.3750	38.139	44.947	8,098.5	16.52	101.70	82.0	418.2	0.0	775.8	19.64	4,983	334.0
75.00		0.3750	37.042	43.641	7,412.9	16.01	98.78	82.6	394.2	0.0	753.6	19.64	4,743	334.0
78.00		0.3750	36.383	42.857	7,020.8	15.70	97.02	82.6	380.1	0.0	441.5	19.64	4,602	200.4
80.00		0.3750	35.944	42.335	6,767.2	15.49	95.85	82.6	370.8	0.0	289.9	19.64	4,510	133.6
85.00		0.3750	34.847	41.029	6,160.0	14.97	92.93	82.6	348.2	0.0	709.2	19.64	4,282	334.0
87.54	Bot - Section 3	0.3750	34.290	40.366	5,866.0	14.71	91.44	82.6	336.9	0.0	351.7	19.64	4,168	169.7
90.00		0.3750	33.750	39.723	5,590.4	14.46	90.00	82.6	326.2	0.0	620.3	19.64	4,186	164.3
92.46	Top - Section 2	0.3125	33.836	33.250	4,721.1	17.68	108.27	80.6	274.8	0.0	609.5	19.64	4,077	164.1
93.00		0.3125	33.717	33.132	4,670.9	17.61	107.89	80.7	272.9	0.0	61.4	19.64	4,053	36.3
95.00		0.3125	33.278	32.696	4,489.2	17.37	106.49	81.0	265.7	0.0	224.0	19.64	3,966	133.6
97.00		0.3125	32.839	32.261	4,312.2	17.12	105.08	81.3	258.6	0.0	221.0	19.64	3,880	133.6
100.0		0.3125	32.181	31.608	4,055.7	16.75	102.98	81.7	248.2	0.0	326.0	19.64	3,753	200.4
103.7	Reinf. Top	0.3125	31.358	30.792	3,749.5	16.28	100.34	82.2	235.5	0.0	398.1	19.64	3,597	250.5
105.0		0.3125	31.083	30.520	3,651.0	16.13	99.47	82.4	231.3	0.0	130.4			
110.0		0.3125	29.986	29.431	3,274.2	15.51	95.96	82.6	215.1	0.0	510.0			
115.0		0.3125	28.889	28.343	2,924.3	14.89	92.44	82.6	199.4	0.0	491.5			
120.0		0.3125	27.792	27.255	2,600.2	14.27	88.93	82.6	184.3	0.0	473.0			
125.0		0.3125	26.694	26.167	2,301.0	13.65	85.42	82.6	169.8	0.0	454.5			
130.0		0.3125	25.597	25.078	2,025.7	13.03	81.91	82.6	155.9	0.0	435.9			
132.0		0.3125	25.158	24.643	1,922.0	12.78	80.51	82.6	150.5	0.0	169.2			
132.1	Bot - Section 4	0.3125	25.132	24.617	1,915.9	12.77	80.42	82.6	150.2	0.0	10.0			
134.0		0.3125	24.719	24.208	1,821.9	12.54	79.10	82.6	145.2	0.0	251.8			
135.0		0.3125	24.500	23.990	1,773.2	12.41	78.40	82.6	142.6	0.0	132.2			
135.8	Top - Section 3	0.1875	24.684	14.578	1,105.3	21.80	131.65	75.8	88.2	0.0	114.0			
140.0		0.1875	23.778	14.039	987.1	20.95	126.81	76.8	81.8	0.0	201.1			
141.0		0.1875	23.558	13.908	959.8	20.74	125.64	77.0	80.2	0.0	47.5			
142.0		0.1875	23.339	13.777	933.0	20.54	124.47	77.2	78.7	0.0	47.1			
145.0		0.1875	22.681	13.386	855.6	19.92	120.96	78.0	74.3	0.0	138.6			
146.0		0.1875	22.461	13.255	830.8	19.71	119.79	78.2	72.9	0.0	45.3			
147.0		0.1875	22.242	13.125	806.5	19.51	118.62	78.5	71.4	0.0	44.9			
150.0		0.1875	21.583	12.733	736.4	18.89	115.11	79.2	67.2	0.0	132.0			
155.0		0.1875	20.486	12.080	628.8	17.85	109.26	80.4	60.5	0.0	211.1			
160.0		0.1875	19.389	11.427	532.3	16.82	103.41	81.6	54.1	0.0	200.0			
165.0		0.1875	18.292	10.774	446.2	15.79	97.56	82.6	48.0	0.0	188.9			
166.0		0.1875	18.072	10.643	430.1	15.58	96.39	82.6	46.9	0.0	36.4			
170.0		0.1875	17.194	10.121	369.8	14.76	91.70	82.6	42.4	0.0	141.3			
175.0		0.1875	16.097	9.468	302.8	13.73	85.85	82.6	37.0	0.0	166.6			
179.0		0.1875	15.219	8.946	255.4	12.90	81.17	82.6	33.1	0.0	125.3			
180.0		0.1875	15.000	8.815	244.4	12.70	80.00	82.6	32.1	0.0	30.2			
											25,271.1		6,930.5	

Load Case: 1.2D + 1.0W	124 mph with No Ice	28 Iterations
Gust Response Factor :1.10		
Dead Load Factor :1.20		
Wind Load Factor :1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		367.0	0.0					0.0	0.0	367.0	0.0	0.0	0.0
5.00		726.3	1,467.5					170.8	757.6	897.1	2,225.1	0.0	0.0
10.00		710.9	1,436.4					170.6	757.6	881.5	2,194.0	0.0	0.0
15.00		695.5	1,405.3					170.4	757.6	865.9	2,162.9	0.0	0.0
20.00		680.1	1,374.2					170.1	757.6	850.2	2,131.7	0.0	0.0
25.00		664.6	1,343.1					169.9	757.6	834.5	2,100.6	0.0	0.0
30.00	Appurtenance(s)	656.9	1,312.0	24.9	0.0	0.0	12.0	169.7	757.6	851.5	2,081.5	0.0	0.0
35.00		662.4	1,280.9					173.5	755.6	835.9	2,036.4	0.0	0.0
40.00		533.1	1,249.8					180.5	755.6	713.6	2,005.3	0.0	0.0
42.96	Bot - Section 2	339.9	724.4					109.7	446.8	449.6	1,171.2	0.0	0.0
45.00		419.8	926.0					77.1	308.8	496.9	1,234.8	0.0	0.0
49.04	Top - Section 1	345.6	1,802.4					155.1	610.5	500.8	2,412.9	0.0	0.0
50.00		413.1	197.2					37.4	145.1	450.5	342.3	0.0	0.0
55.00		693.1	1,011.0					198.0	755.6	891.1	1,766.6	0.0	0.0
60.00		691.7	984.3					202.9	755.6	894.6	1,739.9	0.0	0.0
65.00		688.5	957.7					207.5	755.6	896.0	1,713.2	0.0	0.0
70.00		683.6	931.0					211.7	755.6	895.3	1,686.6	0.0	0.0
75.00		542.9	904.3					216.1	755.6	759.0	1,659.9	0.0	0.0
78.00	Appurtenance(s)	336.8	529.8	3.3	0.0	3.3	0.7	132.3	453.3	472.4	983.9	0.0	0.0
80.00	Appurtenance(s)	466.8	347.9	1,726.1	0.0	0.0	333.6	119.8	301.9	2,312.7	983.3	0.0	0.0
85.00		499.7	851.0					303.9	751.6	803.5	1,602.6	0.0	0.0
87.54	Bot - Section 3	330.6	422.1					156.6	381.8	487.3	803.9	0.0	0.0
90.00		325.6	744.3					153.1	369.8	478.7	1,114.1	0.0	0.0
92.46	Top - Section 2	197.7	731.5					154.3	369.3	352.0	1,100.7	0.0	0.0
93.00	Appurtenance(s)	166.3	73.7	28.6	0.0	85.8	10.0	34.3	81.7	229.2	165.3	0.0	0.0
95.00	Appurtenance(s)	260.4	268.8	502.1	0.0	14.2	564.0	126.6	299.9	889.2	1,132.7	0.0	0.0
97.00	Appurtenance(s)	322.5	265.2	28.6	0.0	-28.6	10.0	127.5	299.5	478.6	574.7	0.0	0.0
100.00		430.5	391.2					192.9	448.1	623.5	839.3	0.0	0.0
103.75	Reinf. Top	316.2	477.7					243.9	560.1	560.1	1,037.8	0.0	0.0
105.00	Appurtenance(s)	387.8	156.5	418.5	0.0	418.5	95.0	81.9	86.5	888.3	338.0	0.0	0.0
110.00		611.6	612.0					303.6	316.4	915.2	928.4	0.0	0.0
115.00	Appurtenance(s)	596.8	589.8	1,914.0	0.0	0.0	2,001.6	308.4	316.4	2,819.1	2,907.8	0.0	0.0
120.00		581.1	567.6					263.7	271.1	844.9	838.6	0.0	0.0
125.00	Appurtenance(s)	555.0	545.3	3,872.0	0.0	0.0	3,170.8	267.2	271.1	4,694.2	3,987.2	0.0	0.0
130.00		376.4	523.1					2.2	233.8	378.6	756.9	0.0	0.0
132.00	Appurtenance(s)	114.4	203.0	275.7	0.0	827.2	380.9	0.9	93.5	391.0	677.4	0.0	0.0
132.12	Bot - Section 4	109.8	12.0					0.1	5.6	109.8	17.6	0.0	0.0
134.00	Appurtenance(s)	158.4	302.2	2,469.2	0.0	1,125.8	3,047.6	0.8	87.9	2,628.4	3,437.7	0.0	0.0
135.00		103.0	158.7					0.4	42.3	103.5	201.0	0.0	0.0
135.87	Top - Section 3	271.9	136.8					0.4	36.8	272.3	173.6	0.0	0.0
140.00	Appurtenance(s)	277.1	241.3	449.9	0.0	0.0	540.0	2.3	174.8	729.4	956.1	0.0	0.0
141.00	Appurtenance(s)	106.1	57.1	48.3	0.0	0.0	30.0	29.0	42.3	183.4	129.4	0.0	0.0
142.00	Appurtenance(s)	209.0	56.5	47.0	0.0	-47.0	6.0	29.1	41.0	285.1	103.5	0.0	0.0
145.00		207.5	166.4					87.6	121.7	295.1	288.1	0.0	0.0
146.00	Appurtenance(s)	102.2	54.4	772.4	0.0	0.0	194.4	29.4	40.6	903.9	289.4	0.0	0.0
147.00	Appurtenance(s)	201.1	53.9	456.5	0.0	-456.5	94.8	29.4	35.7	687.0	184.3	0.0	0.0
150.00	Appurtenance(s)	392.4	158.4	288.4	0.0	0.0	190.0	88.7	101.1	769.5	449.4	0.0	0.0
155.00		473.8	253.3					149.1	163.5	622.9	416.8	0.0	0.0

Site Number: 302506

Code: ANSI/TIA-222-H

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Site Name: Winchester CT 3, CT

Engineering Number: 13201995_C3_07

8/5/2020 8:43:54 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.0W

124 mph with No Ice

28 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.20

Wind Load Factor :1.00

160.00		452.5	240.0					150.8	163.5	603.3	403.5	0.0	0.0	
165.00		263.7	226.6					152.4	163.5	416.1	390.1	0.0	0.0	
166.00	Appurtenance(s)	141.6	43.7	3,087.3	0.0	930.0	2,787.6	30.7	32.7	3,259.6	2,864.0	0.0	0.0	
170.00		216.2	169.6					0.0	72.3	216.2	241.9	0.0	0.0	
175.00		206.5	200.0					0.0	90.4	206.5	290.4	0.0	0.0	
179.00	Appurtenance(s)	110.6	150.4	120.5	0.0	0.0	15.6	0.0	72.3	231.1	238.3	0.0	0.0	
180.00	Appurtenance(s)	21.6	36.3	1,961.1	0.0	0.0	2,400.0	0.0	18.1	1,982.6	2,454.3	0.0	0.0	
										Totals:	46,455.2	64,967.0	0.00	0.00

Load Case: 1.2D + 1.0W

124 mph with No Ice

28 Iterations

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

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-66.88	-49.19	0.00	-5,602.88	0.00	5,602.88	5,102.86	1,274.83	6,023.66	5,489.79	0.00	0.00	0.769
5.00	-64.46	-48.55	0.00	-5,356.92	0.00	5,356.92	5,029.12	1,248.09	5,773.66	5,296.03	0.12	-0.23	0.757
10.00	-62.07	-47.91	0.00	-5,114.16	0.00	5,114.16	4,953.95	1,221.35	5,528.95	5,104.17	0.49	-0.46	0.744
15.00	-59.73	-47.27	0.00	-4,874.61	0.00	4,874.61	4,877.36	1,194.61	5,289.54	4,914.28	1.10	-0.70	0.731
20.00	-57.41	-46.63	0.00	-4,638.26	0.00	4,638.26	4,799.34	1,167.87	5,055.44	4,726.48	1.96	-0.94	0.718
25.00	-55.13	-45.99	0.00	-4,405.12	0.00	4,405.12	4,719.90	1,141.14	4,826.63	4,540.86	3.07	-1.18	0.704
30.00	-52.88	-45.32	0.00	-4,175.18	0.00	4,175.18	4,639.03	1,114.40	4,603.12	4,357.51	4.43	-1.42	0.689
35.00	-50.68	-44.64	0.00	-3,948.61	0.00	3,948.61	4,556.73	1,087.66	4,384.91	4,176.53	6.05	-1.66	0.673
40.00	-48.55	-44.03	0.00	-3,725.40	0.00	3,725.40	4,473.00	1,060.92	4,171.99	3,998.03	7.92	-1.91	0.657
42.96	-47.30	-43.65	0.00	-3,595.22	0.00	3,595.22	4,422.82	1,045.11	4,048.59	3,893.68	9.15	-2.06	0.648
45.00	-45.96	-43.23	0.00	-3,506.04	0.00	3,506.04	4,378.03	1,034.18	3,964.38	3,813.53	10.06	-2.16	0.636
49.04	-43.48	-42.72	0.00	-3,331.41	0.00	3,331.41	3,604.17	884.89	3,386.04	3,138.50	11.97	-2.36	0.705
50.00	-43.04	-42.38	0.00	-3,290.39	0.00	3,290.39	3,591.50	880.49	3,352.45	3,111.78	12.45	-2.41	0.701
55.00	-41.13	-41.60	0.00	-3,078.51	0.00	3,078.51	3,524.70	857.57	3,180.22	2,973.71	15.11	-2.67	0.678
60.00	-39.25	-40.80	0.00	-2,870.52	0.00	2,870.52	3,456.48	834.66	3,012.53	2,837.51	18.05	-2.93	0.654
65.00	-37.40	-39.98	0.00	-2,666.53	0.00	2,666.53	3,386.83	811.74	2,849.38	2,703.28	21.26	-3.19	0.630
70.00	-35.59	-39.15	0.00	-2,466.62	0.00	2,466.62	3,315.75	788.82	2,690.77	2,571.11	24.74	-3.45	0.604
75.00	-33.85	-38.41	0.00	-2,270.86	0.00	2,270.86	3,242.30	765.90	2,536.71	2,440.39	28.49	-3.71	0.577
78.00	-32.81	-37.95	0.00	-2,155.62	0.00	2,155.62	3,184.09	752.15	2,446.45	2,353.11	30.87	-3.87	0.563
80.00	-31.88	-35.68	0.00	-2,079.72	0.00	2,079.72	3,145.28	742.98	2,387.18	2,295.80	32.51	-3.97	0.553
85.00	-30.22	-34.86	0.00	-1,901.34	0.00	1,901.34	3,048.26	720.06	2,242.20	2,155.63	36.80	-4.22	0.529
87.54	-29.38	-34.38	0.00	-1,812.81	0.00	1,812.81	2,998.97	708.42	2,170.29	2,086.12	39.08	-4.35	0.517
90.00	-28.24	-33.88	0.00	-1,728.23	0.00	1,728.23	2,951.23	697.14	2,101.76	2,019.88	41.35	-4.47	0.498
92.46	-27.12	-33.47	0.00	-1,645.02	0.00	1,645.02	2,412.07	583.53	1,766.98	1,661.36	43.68	-4.59	0.542
93.00	-26.94	-33.26	0.00	-1,626.74	0.00	1,626.74	2,405.85	581.46	1,754.43	1,651.12	44.21	-4.62	0.538
95.00	-25.82	-32.33	0.00	-1,560.21	0.00	1,560.21	2,382.81	573.82	1,708.64	1,613.62	46.16	-4.72	0.523
97.00	-25.22	-31.86	0.00	-1,495.55	0.00	1,495.55	2,359.55	566.18	1,663.45	1,576.40	48.16	-4.83	0.509
100.00	-24.35	-31.24	0.00	-1,399.97	0.00	1,399.97	2,324.22	554.72	1,596.80	1,521.06	51.24	-4.98	0.488
103.75	-23.30	-30.64	0.00	-1,282.82	0.00	1,282.82	2,279.33	540.40	1,515.41	1,452.80	55.22	-5.16	0.460
103.75	-23.30	-30.64	0.00	-1,282.82	0.00	1,282.82	2,279.33	540.40	1,515.41	1,452.80	55.22	-5.16	0.896
105.00	-22.90	-29.83	0.00	-1,244.10	0.00	1,244.10	2,264.20	535.62	1,488.76	1,430.27	56.58	-5.22	0.883
110.00	-21.84	-29.00	0.00	-1,094.96	0.00	1,094.96	2,186.61	516.52	1,384.49	1,331.51	62.29	-5.68	0.835
115.00	-19.04	-26.05	0.00	-949.95	0.00	949.95	2,105.76	497.42	1,284.02	1,234.37	68.46	-6.12	0.781
120.00	-18.11	-25.25	0.00	-819.73	0.00	819.73	2,024.90	478.32	1,187.32	1,140.91	75.09	-6.55	0.730
125.00	-14.56	-20.22	0.00	-693.50	0.00	693.50	1,944.05	459.22	1,094.41	1,051.12	82.16	-6.97	0.669
130.00	-13.77	-19.82	0.00	-592.41	0.00	592.41	1,863.20	440.13	1,005.29	965.02	89.65	-7.36	0.623
132.00	-13.12	-19.36	0.00	-551.95	0.00	551.95	1,830.86	432.49	970.70	931.61	92.77	-7.52	0.602
132.12	-13.09	-19.27	0.00	-549.63	0.00	549.63	1,828.92	432.03	968.65	929.62	92.95	-7.53	0.600
134.00	-10.00	-16.23	0.00	-512.28	0.00	512.28	1,798.52	424.85	936.71	898.78	95.94	-7.68	0.577
135.00	-9.79	-16.11	0.00	-496.06	0.00	496.06	1,782.35	421.03	919.95	882.59	97.56	-7.76	0.569
135.87	-9.60	-15.85	0.00	-482.04	0.00	482.04	993.95	255.84	566.08	501.09	98.97	-7.83	0.975
140.00	-8.70	-15.02	0.00	-416.59	0.00	416.59	969.84	246.38	524.97	470.70	105.86	-8.13	0.898
141.00	-8.57	-14.84	0.00	-401.57	0.00	401.57	963.86	244.09	515.25	463.41	107.57	-8.25	0.879

Site Number: 302506

Code: ANSI/TIA-222-H

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Site Name: Winchester CT 3, CT

Engineering Number: 13201995_C3_07

8/5/2020 8:43:54 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.0W

124 mph with No Ice

28 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.20

Wind Load Factor :1.00

142.00	-8.45	-14.58	0.00	-386.73	0.00	386.73	957.82	241.79	505.62	456.15	109.31	-8.37	0.860
145.00	-8.15	-14.28	0.00	-343.00	0.00	343.00	939.35	234.92	477.28	434.53	114.65	-8.70	0.802
146.00	-7.98	-13.35	0.00	-328.72	0.00	328.72	933.08	232.63	468.01	427.39	116.48	-8.81	0.781
147.00	-7.86	-12.68	0.00	-315.37	0.00	315.37	926.76	230.34	458.83	420.27	118.33	-8.92	0.762
150.00	-7.45	-11.90	0.00	-277.34	0.00	277.34	907.44	223.46	431.85	399.13	124.02	-9.24	0.706
155.00	-7.05	-11.27	0.00	-217.86	0.00	217.86	874.09	212.00	388.70	364.57	133.91	-9.72	0.608
160.00	-6.69	-10.65	0.00	-161.51	0.00	161.51	839.33	200.54	347.82	330.98	144.27	-10.15	0.499
165.00	-6.34	-10.20	0.00	-108.24	0.00	108.24	800.44	189.08	309.21	297.43	155.04	-10.51	0.375
166.00	-4.11	-6.48	0.00	-97.12	0.00	97.12	790.74	186.79	301.76	290.23	157.24	-10.57	0.341
170.00	-3.88	-6.24	0.00	-71.20	0.00	71.20	751.93	177.62	272.87	262.30	166.14	-10.79	0.278
175.00	-3.62	-5.99	0.00	-40.03	0.00	40.03	703.42	166.16	238.80	229.37	177.50	-11.01	0.181
179.00	-3.43	-5.72	0.00	-16.07	0.00	16.07	664.61	156.99	213.19	204.62	186.72	-11.11	0.085
180.00	0.00	-4.95	0.00	-10.35	0.00	10.35	654.91	154.70	207.01	198.65	189.04	-11.13	0.053

Load Case: 0.9D + 1.0W	124 mph with No Ice (Reduced DL)	28 Iterations
Gust Response Factor :1.10		
Dead Load Factor :0.90		
Wind Load Factor :1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		367.0	0.0					0.0	0.0	367.0	0.0	0.0	0.0
5.00		726.3	1,100.6					170.8	568.2	897.1	1,668.8	0.0	0.0
10.00		710.9	1,077.3					170.6	568.2	881.5	1,645.5	0.0	0.0
15.00		695.5	1,054.0					170.4	568.2	865.9	1,622.1	0.0	0.0
20.00		680.1	1,030.6					170.1	568.2	850.2	1,598.8	0.0	0.0
25.00		664.6	1,007.3					169.9	568.2	834.5	1,575.5	0.0	0.0
30.00	Appurtenance(s)	656.9	984.0	24.9	0.0	0.0	9.0	169.7	568.2	851.5	1,561.2	0.0	0.0
35.00		662.4	960.7					173.5	566.7	835.9	1,527.3	0.0	0.0
40.00		533.1	937.3					180.5	566.7	713.6	1,504.0	0.0	0.0
42.96	Bot - Section 2	339.9	543.3					109.7	335.1	449.6	878.4	0.0	0.0
45.00		419.8	694.5					77.1	231.6	496.9	926.1	0.0	0.0
49.04	Top - Section 1	345.6	1,351.8					155.1	457.9	500.8	1,809.7	0.0	0.0
50.00		413.1	147.9					37.4	108.8	450.5	256.7	0.0	0.0
55.00		693.1	758.2					198.0	566.7	891.1	1,324.9	0.0	0.0
60.00		691.7	738.2					202.9	566.7	894.6	1,304.9	0.0	0.0
65.00		688.5	718.2					207.5	566.7	896.0	1,284.9	0.0	0.0
70.00		683.6	698.2					211.7	566.7	895.3	1,264.9	0.0	0.0
75.00		542.9	678.3					216.1	566.7	759.0	1,244.9	0.0	0.0
78.00	Appurtenance(s)	336.8	397.4	3.3	0.0	3.3	0.5	132.3	340.0	472.4	737.9	0.0	0.0
80.00	Appurtenance(s)	466.8	260.9	1,726.1	0.0	0.0	250.2	119.8	226.4	2,312.7	737.5	0.0	0.0
85.00		499.7	638.3					303.9	563.7	803.5	1,202.0	0.0	0.0
87.54	Bot - Section 3	330.6	316.6					156.6	286.4	487.3	602.9	0.0	0.0
90.00		325.6	558.2					153.1	277.4	478.7	835.6	0.0	0.0
92.46	Top - Section 2	197.7	548.6					154.3	277.0	352.0	825.6	0.0	0.0
93.00	Appurtenance(s)	166.3	55.2	28.6	0.0	85.8	7.5	34.3	61.3	229.2	124.0	0.0	0.0
95.00	Appurtenance(s)	260.4	201.6	502.1	0.0	14.2	423.0	126.6	224.9	889.2	849.5	0.0	0.0
97.00	Appurtenance(s)	322.5	198.9	28.6	0.0	-28.6	7.5	127.5	224.6	478.6	431.0	0.0	0.0
100.00		430.5	293.4					192.9	336.0	623.5	629.4	0.0	0.0
103.75	Reinf. Top	316.2	358.3					243.9	420.1	560.1	778.4	0.0	0.0
105.00	Appurtenance(s)	387.8	117.4	418.5	0.0	418.5	71.3	81.9	64.9	888.3	253.5	0.0	0.0
110.00		611.6	459.0					303.6	237.3	915.2	696.3	0.0	0.0
115.00	Appurtenance(s)	596.8	442.3	1,914.0	0.0	0.0	1,501.2	308.4	237.3	2,819.1	2,180.9	0.0	0.0
120.00		581.1	425.7					263.7	203.3	844.9	629.0	0.0	0.0
125.00	Appurtenance(s)	555.0	409.0	3,872.0	0.0	0.0	2,378.1	267.2	203.3	4,694.2	2,990.4	0.0	0.0
130.00		376.4	392.3					2.2	175.3	378.6	567.7	0.0	0.0
132.00	Appurtenance(s)	114.4	152.3	275.7	0.0	827.2	285.7	0.9	70.1	391.0	508.1	0.0	0.0
132.12	Bot - Section 4	109.8	9.0					0.1	4.2	109.8	13.2	0.0	0.0
134.00	Appurtenance(s)	158.4	226.6	2,469.2	0.0	1,125.8	2,285.7	0.8	65.9	2,628.4	2,578.3	0.0	0.0
135.00		103.0	119.0					0.4	31.7	103.5	150.7	0.0	0.0
135.87	Top - Section 3	271.9	102.6					0.4	27.6	272.3	130.2	0.0	0.0
140.00	Appurtenance(s)	277.1	181.0	449.9	0.0	0.0	405.0	2.3	131.1	729.4	717.1	0.0	0.0
141.00	Appurtenance(s)	106.1	42.8	48.3	0.0	0.0	22.5	29.0	31.7	183.4	97.0	0.0	0.0
142.00	Appurtenance(s)	209.0	42.4	47.0	0.0	-47.0	4.5	29.1	30.7	285.1	77.6	0.0	0.0
145.00		207.5	124.8					87.6	91.3	295.1	216.1	0.0	0.0
146.00	Appurtenance(s)	102.2	40.8	772.4	0.0	0.0	145.8	29.4	30.4	903.9	217.0	0.0	0.0
147.00	Appurtenance(s)	201.1	40.4	456.5	0.0	-456.5	71.1	29.4	26.7	687.0	138.2	0.0	0.0
150.00	Appurtenance(s)	392.4	118.8	288.4	0.0	0.0	142.5	88.7	75.8	769.5	337.0	0.0	0.0
155.00		473.8	190.0					149.1	122.6	622.9	312.6	0.0	0.0

Site Number: 302506

Code: ANSI/TIA-222-H

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Site Name: Winchester CT 3, CT

Engineering Number: 13201995_C3_07

8/5/2020 8:44:04 PM

Customer: AT&T MOBILITY

Load Case: 0.9D + 1.0W

124 mph with No Ice (Reduced DL)

28 Iterations

Gust Response Factor :1.10

Dead Load Factor :0.90

Wind Load Factor :1.00

160.00		452.5	180.0					150.8	122.6	603.3	302.6	0.0	0.0	
165.00		263.7	170.0					152.4	122.6	416.1	292.6	0.0	0.0	
166.00	Appurtenance(s)	141.6	32.8	3,087.3	0.0	930.0	2,090.7	30.7	24.5	3,259.6	2,148.0	0.0	0.0	
170.00		216.2	127.2					0.0	54.3	216.2	181.4	0.0	0.0	
175.00		206.5	150.0					0.0	67.8	206.5	217.8	0.0	0.0	
179.00	Appurtenance(s)	110.6	112.8	120.5	0.0	0.0	11.7	0.0	54.3	231.1	178.7	0.0	0.0	
180.00	Appurtenance(s)	21.6	27.2	1,961.1	0.0	0.0	1,800.0	0.0	13.6	1,982.6	1,840.8	0.0	0.0	
										Totals:	46,455.2	48,725.3	0.00	0.00

Load Case: 0.9D + 1.0W

124 mph with No Ice (Reduced DL)

28 Iterations

Gust Response Factor :1.10
 Dead Load Factor :0.90
 Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-50.13	-49.16	0.00	-5,520.20	0.00	5,520.20	5,102.86	1,274.83	6,023.66	5,489.79	0.00	0.00	0.755
5.00	-48.27	-48.45	0.00	-5,274.42	0.00	5,274.42	5,029.12	1,248.09	5,773.66	5,296.03	0.12	-0.23	0.743
10.00	-46.44	-47.75	0.00	-5,032.18	0.00	5,032.18	4,953.95	1,221.35	5,528.95	5,104.17	0.48	-0.46	0.730
15.00	-44.64	-47.04	0.00	-4,793.46	0.00	4,793.46	4,877.36	1,194.61	5,289.54	4,914.28	1.09	-0.69	0.717
20.00	-42.86	-46.35	0.00	-4,558.24	0.00	4,558.24	4,799.34	1,167.87	5,055.44	4,726.48	1.93	-0.92	0.703
25.00	-41.11	-45.66	0.00	-4,326.50	0.00	4,326.50	4,719.90	1,141.14	4,826.63	4,540.86	3.02	-1.16	0.689
30.00	-39.39	-44.93	0.00	-4,098.23	0.00	4,098.23	4,639.03	1,114.40	4,603.12	4,357.51	4.36	-1.39	0.674
35.00	-37.70	-44.22	0.00	-3,873.57	0.00	3,873.57	4,556.73	1,087.66	4,384.91	4,176.53	5.95	-1.63	0.659
40.00	-36.07	-43.58	0.00	-3,652.49	0.00	3,652.49	4,473.00	1,060.92	4,171.99	3,998.03	7.79	-1.87	0.643
42.96	-35.11	-43.17	0.00	-3,523.66	0.00	3,523.66	4,422.82	1,045.11	4,048.59	3,893.68	9.00	-2.02	0.633
45.00	-34.10	-42.73	0.00	-3,435.44	0.00	3,435.44	4,378.03	1,034.18	3,964.38	3,813.53	9.89	-2.12	0.621
49.04	-32.22	-42.23	0.00	-3,262.80	0.00	3,262.80	3,604.17	884.89	3,386.04	3,138.50	11.77	-2.32	0.688
50.00	-31.87	-41.85	0.00	-3,222.26	0.00	3,222.26	3,591.50	880.49	3,352.45	3,111.78	12.24	-2.36	0.684
55.00	-30.40	-41.04	0.00	-3,012.99	0.00	3,012.99	3,524.70	857.57	3,180.22	2,973.71	14.85	-2.62	0.662
60.00	-28.96	-40.22	0.00	-2,807.78	0.00	2,807.78	3,456.48	834.66	3,012.53	2,837.51	17.74	-2.88	0.638
65.00	-27.55	-39.38	0.00	-2,606.69	0.00	2,606.69	3,386.83	811.74	2,849.38	2,703.28	20.89	-3.13	0.614
70.00	-26.17	-38.53	0.00	-2,409.81	0.00	2,409.81	3,315.75	788.82	2,690.77	2,571.11	24.30	-3.39	0.588
75.00	-24.84	-37.78	0.00	-2,217.17	0.00	2,217.17	3,242.30	765.90	2,536.71	2,440.39	27.98	-3.64	0.562
78.00	-24.05	-37.31	0.00	-2,103.83	0.00	2,103.83	3,184.09	752.15	2,446.45	2,353.11	30.32	-3.79	0.548
80.00	-23.36	-35.03	0.00	-2,029.20	0.00	2,029.20	3,145.28	742.98	2,387.18	2,295.80	31.93	-3.89	0.538
85.00	-22.11	-34.21	0.00	-1,854.05	0.00	1,854.05	3,048.26	720.06	2,242.20	2,155.63	36.13	-4.14	0.515
87.54	-21.47	-33.73	0.00	-1,767.15	0.00	1,767.15	2,998.97	708.42	2,170.29	2,086.12	38.36	-4.26	0.502
90.00	-20.61	-33.23	0.00	-1,684.17	0.00	1,684.17	2,951.23	697.14	2,101.76	2,019.88	40.59	-4.38	0.484
92.46	-19.77	-32.84	0.00	-1,602.54	0.00	1,602.54	2,412.07	583.53	1,766.98	1,661.36	42.87	-4.50	0.526
93.00	-19.63	-32.63	0.00	-1,584.60	0.00	1,584.60	2,405.85	581.46	1,754.43	1,651.12	43.39	-4.52	0.522
95.00	-18.80	-31.71	0.00	-1,519.34	0.00	1,519.34	2,382.81	573.82	1,708.64	1,613.62	45.30	-4.63	0.508
97.00	-18.34	-31.23	0.00	-1,455.93	0.00	1,455.93	2,359.55	566.18	1,663.45	1,576.40	47.26	-4.73	0.494
100.00	-17.68	-30.61	0.00	-1,362.23	0.00	1,362.23	2,324.22	554.72	1,596.80	1,521.06	50.28	-4.87	0.473
103.75	-16.89	-30.02	0.00	-1,247.44	0.00	1,247.44	2,279.33	540.40	1,515.41	1,452.80	54.17	-5.05	0.446
103.75	-16.89	-30.02	0.00	-1,247.44	0.00	1,247.44	2,279.33	540.40	1,515.41	1,452.80	54.17	-5.05	0.869
105.00	-16.58	-29.19	0.00	-1,209.50	0.00	1,209.50	2,264.20	535.62	1,488.76	1,430.27	55.50	-5.11	0.856
110.00	-15.76	-28.33	0.00	-1,063.57	0.00	1,063.57	2,186.61	516.52	1,384.49	1,331.51	61.09	-5.55	0.809
115.00	-13.69	-25.41	0.00	-921.92	0.00	921.92	2,105.76	497.42	1,284.02	1,234.37	67.13	-5.98	0.756
120.00	-12.98	-24.59	0.00	-794.88	0.00	794.88	2,024.90	478.32	1,187.32	1,140.91	73.61	-6.40	0.706
125.00	-10.41	-19.66	0.00	-671.91	0.00	671.91	1,944.05	459.22	1,094.41	1,051.12	80.52	-6.80	0.646
130.00	-9.81	-19.26	0.00	-573.62	0.00	573.62	1,863.20	440.13	1,005.29	965.02	87.84	-7.19	0.602
132.00	-9.32	-18.82	0.00	-534.27	0.00	534.27	1,830.86	432.49	970.70	931.61	90.87	-7.34	0.580
132.12	-9.30	-18.72	0.00	-532.02	0.00	532.02	1,828.92	432.03	968.65	929.62	91.06	-7.35	0.579
134.00	-7.05	-15.80	0.00	-495.69	0.00	495.69	1,798.52	424.85	936.71	898.78	93.97	-7.50	0.557
135.00	-6.90	-15.68	0.00	-479.89	0.00	479.89	1,782.35	421.03	919.95	882.59	95.55	-7.57	0.549
135.87	-6.76	-15.42	0.00	-466.25	0.00	466.25	993.95	255.84	566.08	501.09	96.93	-7.64	0.941
140.00	-6.09	-14.62	0.00	-402.57	0.00	402.57	969.84	246.38	524.97	470.70	103.65	-7.93	0.865
141.00	-5.99	-14.44	0.00	-387.96	0.00	387.96	963.86	244.09	515.25	463.41	105.32	-8.05	0.847

Site Number: 302506

Code: ANSI/TIA-222-H

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Site Name: Winchester CT 3, CT

Engineering Number: 13201995_C3_07

8/5/2020 8:44:04 PM

Customer: AT&T MOBILITY

Load Case: 0.9D + 1.0W

124 mph with No Ice (Reduced DL)

28 Iterations

Gust Response Factor :1.10

Dead Load Factor :0.90

Wind Load Factor :1.00

142.00	-5.90	-14.17	0.00	-373.52	0.00	373.52	957.82	241.79	505.62	456.15	107.01	-8.16	0.828
145.00	-5.68	-13.86	0.00	-331.02	0.00	331.02	939.35	234.92	477.28	434.53	112.23	-8.48	0.771
146.00	-5.57	-12.95	0.00	-317.16	0.00	317.16	933.08	232.63	468.01	427.39	114.01	-8.59	0.751
147.00	-5.50	-12.27	0.00	-304.21	0.00	304.21	926.76	230.34	458.83	420.27	115.82	-8.70	0.733
150.00	-5.21	-11.49	0.00	-267.41	0.00	267.41	907.44	223.46	431.85	399.13	121.36	-9.00	0.678
155.00	-4.91	-10.86	0.00	-209.95	0.00	209.95	874.09	212.00	388.70	364.57	130.99	-9.46	0.584
160.00	-4.65	-10.25	0.00	-155.64	0.00	155.64	839.33	200.54	347.82	330.98	141.09	-9.87	0.478
165.00	-4.40	-9.80	0.00	-104.39	0.00	104.39	800.44	189.08	309.21	297.43	151.57	-10.22	0.359
166.00	-2.85	-6.22	0.00	-93.65	0.00	93.65	790.74	186.79	301.76	290.23	153.71	-10.29	0.327
170.00	-2.69	-5.99	0.00	-68.77	0.00	68.77	751.93	177.62	272.87	262.30	162.37	-10.50	0.267
175.00	-2.50	-5.75	0.00	-38.84	0.00	38.84	703.42	166.16	238.80	229.37	173.43	-10.71	0.174
179.00	-2.36	-5.49	0.00	-15.84	0.00	15.84	664.61	156.99	213.19	204.62	182.39	-10.81	0.082
180.00	0.00	-4.95	0.00	-10.35	0.00	10.35	654.91	154.70	207.01	198.65	184.65	-10.82	0.053

Load Case: 1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice	27 Iterations
Gust Response Factor :1.10	Ice Dead Load Factor :1.00	Ice Importance Factor :1.15
Dead Load Factor :1.20		
Wind Load Factor :1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		62.0	0.0					0.0	0.0	62.0	0.0	0.0	0.0
5.00		123.3	1,760.0					0.0	1,059.4	123.3	2,819.4	0.0	0.0
10.00		121.7	1,756.6					0.0	1,084.9	121.7	2,841.5	0.0	0.0
15.00		120.0	1,735.5					0.0	1,098.0	120.0	2,833.5	0.0	0.0
20.00		118.2	1,708.5					0.0	1,107.1	118.2	2,815.6	0.0	0.0
25.00		116.3	1,678.5					0.0	1,114.1	116.3	2,792.6	0.0	0.0
30.00	Appurtenance(s)	115.8	1,646.5	5.9	0.0	0.0	26.8	0.0	1,119.9	121.7	2,793.2	0.0	0.0
35.00		117.7	1,613.3					0.0	1,122.9	117.7	2,736.2	0.0	0.0
40.00		95.3	1,579.1					0.0	1,127.2	95.3	2,706.3	0.0	0.0
42.96	Bot - Section 2	61.1	918.3					0.0	668.3	61.1	1,586.6	0.0	0.0
45.00		75.9	1,061.8					0.0	462.7	75.9	1,524.5	0.0	0.0
49.04	Top - Section 1	62.5	2,067.3					0.0	916.4	62.5	2,983.7	0.0	0.0
50.00		75.1	260.2					0.0	218.1	75.1	478.3	0.0	0.0
55.00		126.6	1,332.7					0.0	1,137.6	126.6	2,470.3	0.0	0.0
60.00		127.5	1,300.7					0.0	1,140.5	127.5	2,441.2	0.0	0.0
65.00		128.1	1,268.3					0.0	1,143.2	128.1	2,411.5	0.0	0.0
70.00		128.4	1,235.7					0.6	1,145.7	129.0	2,381.3	0.0	0.0
75.00		102.8	1,202.7					1.6	1,148.0	104.4	2,350.7	0.0	0.0
78.00	Appurtenance(s)	64.2	706.7	1.3	0.0	1.3	3.5	1.4	689.9	66.9	1,400.1	0.0	0.0
80.00	Appurtenance(s)	89.8	464.8	300.4	0.0	0.0	606.3	1.1	460.0	391.3	1,531.1	0.0	0.0
85.00		96.6	1,136.0					3.4	1,148.4	100.0	2,284.4	0.0	0.0
87.54	Bot - Section 3	64.5	565.3					2.0	584.1	66.5	1,149.4	0.0	0.0
90.00		63.8	883.8					4.9	566.2	68.7	1,450.0	0.0	0.0
92.46	Top - Section 2	38.9	869.0					5.3	565.9	44.2	1,434.9	0.0	0.0
93.00	Appurtenance(s)	32.7	104.0	4.7	0.0	14.0	18.3	1.1	125.2	38.5	247.5	0.0	0.0
95.00	Appurtenance(s)	51.4	379.3	105.7	0.0	3.7	712.2	4.4	460.3	161.5	1,551.9	0.0	0.0
97.00	Appurtenance(s)	64.0	374.6	4.7	0.0	-4.7	18.3	4.7	460.2	73.3	853.1	0.0	0.0
100.00		85.9	552.5					7.5	689.7	93.4	1,242.2	0.0	0.0
103.75	Reinf. Top	63.3	675.1					10.3	863.0	73.6	1,538.1	0.0	0.0
105.00	Appurtenance(s)	78.2	221.9	91.2	0.0	91.2	261.1	3.7	187.7	173.0	670.6	0.0	0.0
110.00		123.9	865.5					18.5	651.5	142.4	1,517.1	0.0	0.0
115.00	Appurtenance(s)	121.9	835.6	409.3	0.0	0.0	3,319.7	22.1	608.6	553.4	4,763.8	0.0	0.0
120.00		119.7	805.5					15.4	442.0	135.1	1,247.5	0.0	0.0
125.00	Appurtenance(s)	109.0	775.3	763.6	0.0	0.0	5,793.8	18.2	442.6	890.8	7,011.7	0.0	0.0
130.00		69.2	745.0					15.7	334.3	85.0	1,079.3	0.0	0.0
132.00	Appurtenance(s)	20.7	290.6	58.0	0.0	174.0	748.3	6.8	133.8	85.5	1,172.7	0.0	0.0
132.12	Bot - Section 4	19.5	17.3					0.4	8.0	20.0	25.3	0.0	0.0
134.00	Appurtenance(s)	28.1	384.4	531.1	0.0	230.7	4,669.8	6.7	125.9	565.8	5,180.0	0.0	0.0
135.00		18.1	202.1					3.7	62.5	21.7	264.6	0.0	0.0
135.87	Top - Section 3	47.6	174.4					3.2	54.4	50.9	228.8	0.0	0.0
140.00	Appurtenance(s)	48.6	413.6	102.3	0.0	0.0	675.7	15.7	258.4	166.5	1,347.7	0.0	0.0
141.00	Appurtenance(s)	18.6	98.5	11.2	0.0	0.0	56.9	4.0	62.6	33.8	218.0	0.0	0.0
142.00	Appurtenance(s)	36.8	97.6	19.3	0.0	-19.3	9.7	4.1	61.3	60.2	168.6	0.0	0.0
145.00		36.6	286.5					12.6	182.7	49.2	469.3	0.0	0.0
146.00	Appurtenance(s)	18.0	94.1	234.7	0.0	0.0	469.6	4.3	60.9	257.1	624.7	0.0	0.0
147.00	Appurtenance(s)	35.6	93.3	114.8	0.0	-114.8	249.6	4.4	56.0	154.8	398.9	0.0	0.0
150.00	Appurtenance(s)	69.7	273.5	86.7	0.0	0.0	264.5	13.6	162.2	170.0	700.2	0.0	0.0
155.00		84.6	436.4					24.1	265.8	108.7	702.2	0.0	0.0

Site Number: 302506

Code: ANSI/TIA-222-H

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Site Name: Winchester CT 3, CT

Engineering Number: 13201995_C3_07

8/5/2020 8:44:14 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice	27 Iterations
Gust Response Factor :1.10	Ice Dead Load Factor :1.00	
Dead Load Factor :1.20		Ice Importance Factor :1.15
Wind Load Factor :1.00		

160.00	81.4	414.5					25.5	266.1	106.8	680.6	0.0	0.0	
165.00	47.6	392.5					26.7	266.4	74.4	658.9	0.0	0.0	
166.00	Appurtenance(s)	38.2	76.6	654.9	0.0	193.0	4,845.3	5.5	53.3	698.6	4,975.2	0.0	0.0
170.00		66.8	295.3					0.0	72.3	66.8	367.6	0.0	0.0
175.00		64.3	348.2					0.0	90.4	64.3	438.6	0.0	0.0
179.00	Appurtenance(s)	34.7	263.3	86.1	0.0	0.0	84.4	0.0	72.3	120.8	420.1	0.0	0.0
180.00	Appurtenance(s)	6.8	64.2	442.2	0.0	0.0	3,061.6	0.0	18.1	449.0	3,143.8	0.0	0.0
								Totals:	8,368.80	94,124.5	0.00	0.00	

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 1.00 in Radial Ice

27 Iterations

Gust Response Factor :1.10

Ice Dead Load Factor :1.00

Dead Load Factor :1.20

Ice Importance Factor :1.15

Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-98.23	-8.96	0.00	-1,152.50	0.00	1,152.50	5,102.86	1,274.83	6,023.66	5,489.79	0.00	0.00	0.171
5.00	-95.41	-8.92	0.00	-1,107.70	0.00	1,107.70	5,029.12	1,248.09	5,773.66	5,296.03	0.03	-0.05	0.169
10.00	-92.56	-8.87	0.00	-1,063.12	0.00	1,063.12	4,953.95	1,221.35	5,528.95	5,104.17	0.10	-0.10	0.167
15.00	-89.72	-8.82	0.00	-1,018.77	0.00	1,018.77	4,877.36	1,194.61	5,289.54	4,914.28	0.23	-0.14	0.165
20.00	-86.90	-8.77	0.00	-974.67	0.00	974.67	4,799.34	1,167.87	5,055.44	4,726.48	0.41	-0.19	0.163
25.00	-84.10	-8.72	0.00	-930.82	0.00	930.82	4,719.90	1,141.14	4,826.63	4,540.86	0.64	-0.25	0.160
30.00	-81.30	-8.66	0.00	-887.23	0.00	887.23	4,639.03	1,114.40	4,603.12	4,357.51	0.92	-0.30	0.158
35.00	-78.55	-8.59	0.00	-843.95	0.00	843.95	4,556.73	1,087.66	4,384.91	4,176.53	1.26	-0.35	0.155
40.00	-75.84	-8.54	0.00	-800.98	0.00	800.98	4,473.00	1,060.92	4,171.99	3,998.03	1.65	-0.40	0.152
42.96	-74.25	-8.50	0.00	-775.74	0.00	775.74	4,422.82	1,045.11	4,048.59	3,893.68	1.91	-0.43	0.150
45.00	-72.72	-8.45	0.00	-758.37	0.00	758.37	4,378.03	1,034.18	3,964.38	3,813.53	2.10	-0.46	0.148
49.04	-69.73	-8.40	0.00	-724.22	0.00	724.22	3,604.17	884.89	3,386.04	3,138.50	2.51	-0.50	0.165
50.00	-69.25	-8.36	0.00	-716.15	0.00	716.15	3,591.50	880.49	3,352.45	3,111.78	2.61	-0.51	0.164
55.00	-66.77	-8.28	0.00	-674.35	0.00	674.35	3,524.70	857.57	3,180.22	2,973.71	3.17	-0.57	0.160
60.00	-64.33	-8.19	0.00	-632.95	0.00	632.95	3,456.48	834.66	3,012.53	2,837.51	3.80	-0.62	0.155
65.00	-61.91	-8.10	0.00	-592.00	0.00	592.00	3,386.83	811.74	2,849.38	2,703.28	4.48	-0.68	0.150
70.00	-59.52	-8.00	0.00	-551.52	0.00	551.52	3,315.75	788.82	2,690.77	2,571.11	5.23	-0.74	0.145
75.00	-57.17	-7.91	0.00	-511.52	0.00	511.52	3,242.30	765.90	2,536.71	2,440.39	6.03	-0.80	0.140
78.00	-55.76	-7.85	0.00	-487.79	0.00	487.79	3,184.09	752.15	2,446.45	2,353.11	6.54	-0.83	0.137
80.00	-54.23	-7.48	0.00	-472.09	0.00	472.09	3,145.28	742.98	2,387.18	2,295.80	6.90	-0.86	0.135
85.00	-51.94	-7.38	0.00	-434.72	0.00	434.72	3,048.26	720.06	2,242.20	2,155.63	7.83	-0.91	0.131
87.54	-50.79	-7.32	0.00	-415.97	0.00	415.97	2,998.97	708.42	2,170.29	2,086.12	8.32	-0.94	0.128
90.00	-49.34	-7.25	0.00	-397.97	0.00	397.97	2,951.23	697.14	2,101.76	2,019.88	8.81	-0.97	0.124
92.46	-47.90	-7.20	0.00	-380.16	0.00	380.16	2,412.07	583.53	1,766.98	1,661.36	9.32	-1.00	0.135
93.00	-47.66	-7.17	0.00	-376.23	0.00	376.23	2,405.85	581.46	1,754.43	1,651.12	9.43	-1.00	0.135
95.00	-46.10	-7.00	0.00	-361.90	0.00	361.90	2,382.81	573.82	1,708.64	1,613.62	9.86	-1.03	0.131
97.00	-45.25	-6.93	0.00	-347.90	0.00	347.90	2,359.55	566.18	1,663.45	1,576.40	10.30	-1.05	0.128
100.00	-44.00	-6.84	0.00	-327.11	0.00	327.11	2,324.22	554.72	1,596.80	1,521.06	10.97	-1.09	0.124
103.75	-42.46	-6.76	0.00	-301.44	0.00	301.44	2,279.33	540.40	1,515.41	1,452.80	11.84	-1.13	0.117
103.75	-42.46	-6.76	0.00	-301.44	0.00	301.44	2,279.33	540.40	1,515.41	1,452.80	11.84	-1.13	0.226
105.00	-41.79	-6.62	0.00	-292.90	0.00	292.90	2,264.20	535.62	1,488.76	1,430.27	12.14	-1.15	0.223
110.00	-40.26	-6.52	0.00	-259.80	0.00	259.80	2,186.61	516.52	1,384.49	1,331.51	13.40	-1.25	0.214
115.00	-35.50	-5.92	0.00	-227.19	0.00	227.19	2,105.76	497.42	1,284.02	1,234.37	14.77	-1.36	0.201
120.00	-34.25	-5.82	0.00	-197.56	0.00	197.56	2,024.90	478.32	1,187.32	1,140.91	16.25	-1.46	0.190
125.00	-27.25	-4.79	0.00	-168.47	0.00	168.47	1,944.05	459.22	1,094.41	1,051.12	17.83	-1.56	0.174
130.00	-26.17	-4.71	0.00	-144.51	0.00	144.51	1,863.20	440.13	1,005.29	965.02	19.52	-1.66	0.164
132.00	-25.00	-4.60	0.00	-134.92	0.00	134.92	1,830.86	432.49	970.70	931.61	20.22	-1.70	0.159
132.12	-24.98	-4.58	0.00	-134.37	0.00	134.37	1,828.92	432.03	968.65	929.62	20.27	-1.70	0.158
134.00	-19.81	-3.87	0.00	-125.53	0.00	125.53	1,798.52	424.85	936.71	898.78	20.94	-1.74	0.151
135.00	-19.55	-3.85	0.00	-121.65	0.00	121.65	1,782.35	421.03	919.95	882.59	21.31	-1.76	0.149
135.87	-19.32	-3.81	0.00	-118.31	0.00	118.31	993.95	255.84	566.08	501.09	21.63	-1.77	0.256
140.00	-17.97	-3.61	0.00	-102.59	0.00	102.59	969.84	246.38	524.97	470.70	23.20	-1.85	0.237
141.00	-17.75	-3.58	0.00	-98.97	0.00	98.97	963.86	244.09	515.25	463.41	23.59	-1.88	0.232

Site Number: 302506

Code: ANSI/TIA-222-H

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Site Name: Winchester CT 3, CT

Engineering Number: 13201995_C3_07

8/5/2020 8:44:14 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 1.00 in Radial Ice

27 Iterations

Gust Response Factor :1.10

Ice Dead Load Factor :1.00

Dead Load Factor :1.20

Ice Importance Factor :1.15

Wind Load Factor :1.00

142.00	-17.58	-3.53	0.00	-95.39	0.00	95.39	957.82	241.79	505.62	456.15	23.98	-1.91	0.228
145.00	-17.11	-3.48	0.00	-84.79	0.00	84.79	939.35	234.92	477.28	434.53	25.21	-1.99	0.214
146.00	-16.50	-3.21	0.00	-81.31	0.00	81.31	933.08	232.63	468.01	427.39	25.63	-2.02	0.208
147.00	-16.10	-3.06	0.00	-78.10	0.00	78.10	926.76	230.34	458.83	420.27	26.05	-2.04	0.203
150.00	-15.40	-2.89	0.00	-68.92	0.00	68.92	907.44	223.46	431.85	399.13	27.36	-2.12	0.190
155.00	-14.70	-2.78	0.00	-54.47	0.00	54.47	874.09	212.00	388.70	364.57	29.65	-2.24	0.166
160.00	-14.02	-2.68	0.00	-40.54	0.00	40.54	839.33	200.54	347.82	330.98	32.05	-2.35	0.139
165.00	-13.36	-2.59	0.00	-27.17	0.00	27.17	800.44	189.08	309.21	297.43	34.56	-2.44	0.108
166.00	-8.42	-1.68	0.00	-24.39	0.00	24.39	790.74	186.79	301.76	290.23	35.08	-2.45	0.095
170.00	-8.05	-1.61	0.00	-17.67	0.00	17.67	751.93	177.62	272.87	262.30	37.16	-2.51	0.078
175.00	-7.62	-1.53	0.00	-9.64	0.00	9.64	703.42	166.16	238.80	229.37	39.81	-2.56	0.053
179.00	-7.20	-1.39	0.00	-3.53	0.00	3.53	664.61	156.99	213.19	204.62	41.97	-2.59	0.028
180.00	0.00	-1.06	0.00	-2.14	0.00	2.14	654.91	154.70	207.01	198.65	42.52	-2.59	0.011

Load Case: 1.0D + 1.0W	Serviceability 60 mph	27 Iterations
Gust Response Factor :1.10		
Dead Load Factor :1.00		
Wind Load Factor :1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		76.9	0.0					0.0	0.0	76.9	0.0	0.0	0.0
5.00		152.2	1,222.9					35.8	631.3	187.9	1,854.2	0.0	0.0
10.00		148.9	1,197.0					35.7	631.3	184.7	1,828.3	0.0	0.0
15.00		145.7	1,171.1					35.7	631.3	181.4	1,802.4	0.0	0.0
20.00		142.5	1,145.2					35.6	631.3	178.1	1,776.5	0.0	0.0
25.00		139.2	1,119.2					35.6	631.3	174.8	1,750.5	0.0	0.0
30.00	Appurtenance(s)	137.6	1,093.3	5.2	0.0	0.0	10.0	35.5	631.3	178.4	1,734.6	0.0	0.0
35.00		138.8	1,067.4					36.3	629.6	175.1	1,697.0	0.0	0.0
40.00		111.7	1,041.5					37.8	629.6	149.5	1,671.1	0.0	0.0
42.96	Bot - Section 2	71.2	603.6					23.0	372.3	94.2	976.0	0.0	0.0
45.00		87.9	771.7					16.1	257.3	104.1	1,029.0	0.0	0.0
49.04	Top - Section 1	72.4	1,502.0					32.5	508.7	104.9	2,010.7	0.0	0.0
50.00		86.5	164.3					7.8	120.9	94.4	285.2	0.0	0.0
55.00		145.2	842.5					41.5	629.6	186.7	1,472.1	0.0	0.0
60.00		144.9	820.3					42.5	629.6	187.4	1,449.9	0.0	0.0
65.00		144.2	798.0					43.5	629.6	187.7	1,427.7	0.0	0.0
70.00		143.2	775.8					44.4	629.6	187.6	1,405.5	0.0	0.0
75.00		113.7	753.6					45.3	629.6	159.0	1,383.3	0.0	0.0
78.00	Appurtenance(s)	70.5	441.5	0.7	0.0	0.7	0.6	27.7	377.8	99.0	819.9	0.0	0.0
80.00	Appurtenance(s)	97.8	289.9	361.6	0.0	0.0	278.0	25.1	251.6	484.5	819.4	0.0	0.0
85.00		104.7	709.2					63.7	626.3	168.4	1,335.5	0.0	0.0
87.54	Bot - Section 3	69.3	351.7					32.8	318.2	102.1	669.9	0.0	0.0
90.00		68.2	620.3					32.1	308.2	100.3	928.5	0.0	0.0
92.46	Top - Section 2	41.4	609.5					32.4	307.7	73.8	917.3	0.0	0.0
93.00	Appurtenance(s)	34.8	61.4	6.0	0.0	18.0	8.3	7.2	68.1	48.0	137.8	0.0	0.0
95.00	Appurtenance(s)	54.6	224.0	105.2	0.0	3.0	470.0	26.6	249.9	186.3	943.9	0.0	0.0
97.00	Appurtenance(s)	67.6	221.0	6.0	0.0	-6.0	8.3	26.8	249.6	100.3	478.9	0.0	0.0
100.00		90.2	326.0					40.5	373.4	130.7	699.4	0.0	0.0
103.75	Reinf. Top	66.2	398.1					51.3	466.7	117.5	864.8	0.0	0.0
105.00	Appurtenance(s)	81.2	130.4	87.7	0.0	87.7	79.2	17.2	72.1	186.1	281.7	0.0	0.0
110.00		128.1	510.0					63.9	263.7	192.0	773.7	0.0	0.0
115.00	Appurtenance(s)	125.0	491.5	401.0	0.0	0.0	1,668.0	65.0	263.7	590.9	2,423.2	0.0	0.0
120.00		121.7	473.0					55.3	225.9	177.0	698.9	0.0	0.0
125.00	Appurtenance(s)	116.3	454.5	811.1	0.0	0.0	2,642.3	56.0	225.9	983.4	3,322.7	0.0	0.0
130.00		78.8	435.9					0.5	194.8	79.3	630.7	0.0	0.0
132.00	Appurtenance(s)	24.0	169.2	57.8	0.0	173.3	317.4	0.2	77.9	81.9	564.5	0.0	0.0
132.12	Bot - Section 4	23.0	10.0					0.0	4.7	23.0	14.7	0.0	0.0
134.00	Appurtenance(s)	33.2	251.8	517.3	0.0	235.8	2,539.7	0.2	73.3	550.6	2,864.8	0.0	0.0
135.00		21.6	132.2					0.1	35.3	21.7	167.5	0.0	0.0
135.87	Top - Section 3	56.9	114.0					0.1	30.7	57.0	144.7	0.0	0.0
140.00	Appurtenance(s)	58.1	201.1	94.3	0.0	0.0	450.0	0.5	145.6	152.8	796.7	0.0	0.0
141.00	Appurtenance(s)	22.2	47.5	10.1	0.0	0.0	25.0	6.1	35.3	38.4	107.8	0.0	0.0
142.00	Appurtenance(s)	43.8	47.1	9.8	0.0	-9.8	5.0	6.1	34.1	59.7	86.2	0.0	0.0
145.00		43.5	138.6					18.4	101.4	61.8	240.1	0.0	0.0
146.00	Appurtenance(s)	21.4	45.3	161.8	0.0	0.0	162.0	6.1	33.8	189.4	241.1	0.0	0.0
147.00	Appurtenance(s)	42.1	44.9	95.6	0.0	-95.6	79.0	6.2	29.7	143.9	153.6	0.0	0.0
150.00	Appurtenance(s)	82.2	132.0	60.4	0.0	0.0	158.3	18.6	84.2	161.2	374.5	0.0	0.0
155.00		99.3	211.1					31.2	136.3	130.5	347.3	0.0	0.0

Site Number: 302506

Code: ANSI/TIA-222-H

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Site Name: Winchester CT 3, CT

Engineering Number: 13201995_C3_07

8/5/2020 8:44:24 PM

Customer: AT&T MOBILITY

Load Case: 1.0D + 1.0W

Serviceability 60 mph

27 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.00

Wind Load Factor :1.00

160.00		94.8	200.0					31.6	136.3	126.4	336.2	0.0	0.0	
165.00		55.2	188.9					31.9	136.3	87.2	325.1	0.0	0.0	
166.00	Appurtenance(s)	29.7	36.4	646.7	0.0	194.8	2,323.0	6.4	27.2	682.8	2,386.7	0.0	0.0	
170.00		45.3	141.3					0.0	60.3	45.3	201.6	0.0	0.0	
175.00		43.3	166.6					0.0	75.4	43.3	242.0	0.0	0.0	
179.00	Appurtenance(s)	23.2	125.3	25.2	0.0	0.0	13.0	0.0	60.3	48.4	198.6	0.0	0.0	
180.00	Appurtenance(s)	4.5	30.2	410.8	0.0	0.0	2,000.0	0.0	15.1	415.3	2,045.3	0.0	0.0	
										Totals:	9,732.99	54,139.2	0.00	0.00

Load Case: 1.0D + 1.0W

Serviceability 60 mph

27 Iterations

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

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-55.81	-10.30	0.00	-1,165.47	0.00	1,165.47	5,102.86	1,274.83	6,023.66	5,489.79	0.00	0.00	0.166
5.00	-53.95	-10.16	0.00	-1,113.96	0.00	1,113.96	5,029.12	1,248.09	5,773.66	5,296.03	0.03	-0.05	0.163
10.00	-52.11	-10.02	0.00	-1,063.17	0.00	1,063.17	4,953.95	1,221.35	5,528.95	5,104.17	0.10	-0.10	0.161
15.00	-50.30	-9.87	0.00	-1,013.10	0.00	1,013.10	4,877.36	1,194.61	5,289.54	4,914.28	0.23	-0.15	0.158
20.00	-48.52	-9.73	0.00	-963.74	0.00	963.74	4,799.34	1,167.87	5,055.44	4,726.48	0.41	-0.19	0.155
25.00	-46.76	-9.59	0.00	-915.08	0.00	915.08	4,719.90	1,141.14	4,826.63	4,540.86	0.64	-0.24	0.152
30.00	-45.02	-9.44	0.00	-867.12	0.00	867.12	4,639.03	1,114.40	4,603.12	4,357.51	0.92	-0.29	0.148
35.00	-43.31	-9.30	0.00	-819.91	0.00	819.91	4,556.73	1,087.66	4,384.91	4,176.53	1.26	-0.35	0.145
40.00	-41.64	-9.17	0.00	-773.42	0.00	773.42	4,473.00	1,060.92	4,171.99	3,998.03	1.65	-0.40	0.142
42.96	-40.66	-9.08	0.00	-746.31	0.00	746.31	4,422.82	1,045.11	4,048.59	3,893.68	1.90	-0.43	0.139
45.00	-39.62	-8.99	0.00	-727.75	0.00	727.75	4,378.03	1,034.18	3,964.38	3,813.53	2.09	-0.45	0.137
49.04	-37.61	-8.89	0.00	-691.42	0.00	691.42	3,604.17	884.89	3,386.04	3,138.50	2.49	-0.49	0.152
50.00	-37.32	-8.81	0.00	-682.88	0.00	682.88	3,591.50	880.49	3,352.45	3,111.78	2.59	-0.50	0.151
55.00	-35.84	-8.65	0.00	-638.81	0.00	638.81	3,524.70	857.57	3,180.22	2,973.71	3.14	-0.55	0.146
60.00	-34.39	-8.48	0.00	-595.57	0.00	595.57	3,456.48	834.66	3,012.53	2,837.51	3.75	-0.61	0.141
65.00	-32.95	-8.31	0.00	-553.18	0.00	553.18	3,386.83	811.74	2,849.38	2,703.28	4.42	-0.66	0.135
70.00	-31.54	-8.13	0.00	-511.65	0.00	511.65	3,315.75	788.82	2,690.77	2,571.11	5.14	-0.72	0.130
75.00	-30.15	-7.98	0.00	-471.00	0.00	471.00	3,242.30	765.90	2,536.71	2,440.39	5.92	-0.77	0.124
78.00	-29.33	-7.88	0.00	-447.07	0.00	447.07	3,184.09	752.15	2,446.45	2,353.11	6.42	-0.80	0.121
80.00	-28.52	-7.40	0.00	-431.31	0.00	431.31	3,145.28	742.98	2,387.18	2,295.80	6.76	-0.82	0.119
85.00	-27.18	-7.23	0.00	-394.30	0.00	394.30	3,048.26	720.06	2,242.20	2,155.63	7.65	-0.88	0.114
87.54	-26.51	-7.13	0.00	-375.93	0.00	375.93	2,998.97	708.42	2,170.29	2,086.12	8.12	-0.90	0.111
90.00	-25.58	-7.03	0.00	-358.38	0.00	358.38	2,951.23	697.14	2,101.76	2,019.88	8.59	-0.93	0.107
92.46	-24.66	-6.95	0.00	-341.11	0.00	341.11	2,412.07	583.53	1,766.98	1,661.36	9.08	-0.95	0.117
93.00	-24.52	-6.90	0.00	-337.32	0.00	337.32	2,405.85	581.46	1,754.43	1,651.12	9.19	-0.96	0.116
95.00	-23.58	-6.71	0.00	-323.52	0.00	323.52	2,382.81	573.82	1,708.64	1,613.62	9.59	-0.98	0.113
97.00	-23.10	-6.61	0.00	-310.10	0.00	310.10	2,359.55	566.18	1,663.45	1,576.40	10.01	-1.00	0.110
100.00	-22.40	-6.48	0.00	-290.27	0.00	290.27	2,324.22	554.72	1,596.80	1,521.06	10.65	-1.03	0.105
103.75	-21.53	-6.36	0.00	-265.97	0.00	265.97	2,279.33	540.40	1,515.41	1,452.80	11.48	-1.07	0.099
103.75	-21.53	-6.36	0.00	-265.97	0.00	265.97	2,279.33	540.40	1,515.41	1,452.80	11.48	-1.07	0.193
105.00	-21.25	-6.19	0.00	-257.93	0.00	257.93	2,264.20	535.62	1,488.76	1,430.27	11.76	-1.08	0.190
110.00	-20.47	-6.01	0.00	-227.00	0.00	227.00	2,186.61	516.52	1,384.49	1,331.51	12.94	-1.18	0.180
115.00	-18.05	-5.40	0.00	-196.95	0.00	196.95	2,105.76	497.42	1,284.02	1,234.37	14.23	-1.27	0.168
120.00	-17.35	-5.23	0.00	-169.96	0.00	169.96	2,024.90	478.32	1,187.32	1,140.91	15.61	-1.36	0.158
125.00	-14.04	-4.19	0.00	-143.80	0.00	143.80	1,944.05	459.22	1,094.41	1,051.12	17.08	-1.45	0.144
130.00	-13.41	-4.11	0.00	-122.87	0.00	122.87	1,863.20	440.13	1,005.29	965.02	18.64	-1.53	0.135
132.00	-12.85	-4.01	0.00	-114.48	0.00	114.48	1,830.86	432.49	970.70	931.61	19.28	-1.56	0.130
132.12	-12.83	-3.99	0.00	-114.00	0.00	114.00	1,828.92	432.03	968.65	929.62	19.32	-1.56	0.130
134.00	-9.98	-3.37	0.00	-106.26	0.00	106.26	1,798.52	424.85	936.71	898.78	19.94	-1.59	0.124
135.00	-9.81	-3.34	0.00	-102.89	0.00	102.89	1,782.35	421.03	919.95	882.59	20.28	-1.61	0.122
135.87	-9.67	-3.29	0.00	-99.99	0.00	99.99	993.95	255.84	566.08	501.09	20.57	-1.62	0.209
140.00	-8.87	-3.12	0.00	-86.40	0.00	86.40	969.84	246.38	524.97	470.70	22.01	-1.69	0.193
141.00	-8.77	-3.08	0.00	-83.28	0.00	83.28	963.86	244.09	515.25	463.41	22.36	-1.71	0.189

Site Number: 302506

Code: ANSI/TIA-222-H

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Site Name: Winchester CT 3, CT

Engineering Number: 13201995_C3_07

8/5/2020 8:44:24 PM

Customer: AT&T MOBILITY

Load Case: 1.0D + 1.0W

Serviceability 60 mph

27 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.00

Wind Load Factor :1.00

142.00	-8.68	-3.03	0.00	-80.20	0.00	80.20	957.82	241.79	505.62	456.15	22.73	-1.74	0.185
145.00	-8.44	-2.96	0.00	-71.12	0.00	71.12	939.35	234.92	477.28	434.53	23.84	-1.81	0.173
146.00	-8.20	-2.77	0.00	-68.16	0.00	68.16	933.08	232.63	468.01	427.39	24.22	-1.83	0.168
147.00	-8.05	-2.63	0.00	-65.39	0.00	65.39	926.76	230.34	458.83	420.27	24.60	-1.85	0.164
150.00	-7.68	-2.47	0.00	-57.50	0.00	57.50	907.44	223.46	431.85	399.13	25.79	-1.92	0.153
155.00	-7.33	-2.34	0.00	-45.17	0.00	45.17	874.09	212.00	388.70	364.57	27.85	-2.02	0.132
160.00	-7.00	-2.21	0.00	-33.49	0.00	33.49	839.33	200.54	347.82	330.98	30.01	-2.10	0.110
165.00	-6.67	-2.11	0.00	-22.46	0.00	22.46	800.44	189.08	309.21	297.43	32.26	-2.18	0.084
166.00	-4.32	-1.34	0.00	-20.15	0.00	20.15	790.74	186.79	301.76	290.23	32.72	-2.19	0.075
170.00	-4.11	-1.29	0.00	-14.78	0.00	14.78	751.93	177.62	272.87	262.30	34.57	-2.24	0.062
175.00	-3.87	-1.24	0.00	-8.32	0.00	8.32	703.42	166.16	238.80	229.37	36.94	-2.28	0.042
179.00	-3.68	-1.19	0.00	-3.35	0.00	3.35	664.61	156.99	213.19	204.62	38.87	-2.31	0.022
180.00	0.00	-1.04	0.00	-2.17	0.00	2.17	654.91	154.70	207.01	198.65	39.35	-2.31	0.011

Equivalent Lateral Forces Method Analysis

Spectral Response Acceleration for Short Period (S_s):	0.18
Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.06
Long-Period Transition Period (T_L):	6
Importance Factor (I_E):	1.25
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.19
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10
Seismic Response Coefficient (C_s):	0.03
Upper Limit C_s	0.03
Lower Limit C_s	0.03
Period based on Rayleigh Method (sec):	2.93
Redundancy Factor (ρ):	1.00
Seismic Force Distribution Exponent (k):	2.00
Total Unfactored Dead Load:	55.82 k
Seismic Base Shear (E):	1.67 k

Load Case 1.2D + 1.0Ev + 1.0Eh

Seismic

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
54	179.50	45	1,459	0.003	4	56
53	177.00	186	5,814	0.010	17	230
52	172.50	242	7,201	0.013	21	300
51	168.00	202	5,690	0.010	17	250
50	165.50	64	1,744	0.003	5	79
49	162.50	325	8,585	0.015	25	402
48	157.50	336	8,340	0.015	25	416
47	152.50	347	8,078	0.014	24	430
46	148.50	216	4,767	0.008	14	268
45	146.50	75	1,601	0.003	5	92
44	145.50	79	1,675	0.003	5	98
43	143.50	240	4,944	0.009	15	297
42	141.50	81	1,627	0.003	5	101
41	140.50	83	1,635	0.003	5	102
40	137.93	347	6,597	0.012	19	429
39	135.43	145	2,654	0.005	8	179
38	134.50	167	3,030	0.005	9	207
37	133.06	325	5,755	0.010	17	402
36	132.06	15	256	0.000	1	18
35	131.00	247	4,241	0.007	13	306
34	127.50	631	10,253	0.018	30	781
33	122.50	680	10,210	0.018	30	842
32	117.50	699	9,649	0.017	29	865
31	112.50	755	9,558	0.017	28	935
30	107.50	774	8,941	0.016	26	958

29	104.38	202	2,206	0.004	7	251
28	101.88	865	8,976	0.016	27	1,070
27	98.50	699	6,786	0.012	20	866
26	96.00	471	4,337	0.008	13	583
25	94.00	474	4,187	0.007	12	587
24	92.73	129	1,113	0.002	3	160
23	91.23	917	7,634	0.013	23	1,135
22	88.77	928	7,316	0.013	22	1,149
21	86.27	670	4,986	0.009	15	829
20	82.50	1,336	9,090	0.016	27	1,653
19	79.00	541	3,379	0.006	10	670
18	76.50	819	4,795	0.008	14	1,014
17	72.50	1,383	7,271	0.013	21	1,712
16	67.50	1,405	6,404	0.011	19	1,740
15	62.50	1,428	5,577	0.010	16	1,767
14	57.50	1,450	4,794	0.008	14	1,795
13	52.50	1,472	4,058	0.007	12	1,822
12	49.52	285	699	0.001	2	353
11	47.02	2,011	4,446	0.008	13	2,489
10	43.98	1,029	1,990	0.004	6	1,274
9	41.48	976	1,679	0.003	5	1,208
8	37.50	1,671	2,350	0.004	7	2,068
7	32.50	1,697	1,792	0.003	5	2,101
6	27.50	1,725	1,304	0.002	4	2,135
5	22.50	1,751	886	0.002	3	2,167
4	17.50	1,776	544	0.001	2	2,199
3	12.50	1,802	282	0.000	1	2,231
2	7.50	1,828	103	0.000	0	2,263
1	2.50	1,854	12	0.000	0	2,295
Generic 4' Omni	180.00	10	324	0.001	1	12
Kaelus DBC0061F1V51-	180.00	51	1,652	0.003	5	63
Powerwave Allgon TT1	180.00	48	1,555	0.003	5	59
Powerwave Allgon LGP	180.00	42	1,371	0.002	4	52
Raycap DC6-48-60-18-	180.00	60	1,944	0.003	6	74
Ericsson RRUS 8843 B	180.00	216	6,998	0.012	21	267
Ericsson RRUS 4478 B	180.00	120	3,882	0.007	11	148
Ericsson RRUS 4449 B	180.00	213	6,901	0.012	20	264
Ericsson RRUS 32 B30	180.00	180	5,832	0.010	17	223
Ericsson RRUS E2 B29	180.00	180	5,832	0.010	17	223
CCI OPA65R-BU6B	180.00	165	5,346	0.009	16	204
CCI HPA-65R-BUU-H6	180.00	153	4,957	0.009	15	189
CCI DMP65R-BU6DA	180.00	238	7,718	0.014	23	295
Flat Platform w/ Han	180.00	2,000	64,800	0.114	192	2,476
Kathrein Scala MF-90	179.00	13	417	0.001	1	16
Fastback Networks In	166.00	9	242	0.000	1	11
Ericsson Radio 4449	166.00	222	6,117	0.011	18	275
Ericsson AIR 21, 1.3	166.00	249	6,861	0.012	20	308
Ericsson AIR 21, 1.3	166.00	244	6,737	0.012	20	303
Round T-Arm w/ Reinf	166.00	1,215	33,481	0.059	99	1,504
RFS APXVAARR24_43-U-	166.00	384	10,573	0.019	31	475
Sinclair SD210-SF2P4	150.00	8	187	0.000	1	10
Round Side Arm	150.00	150	3,375	0.006	10	186
Sinclair SC442D-HF1L	147.00	79	1,707	0.003	5	98
Sinclair SC479-HF1LD	146.00	34	725	0.001	2	42
Decibel DB809DK-XT	146.00	128	2,728	0.005	8	158
Telewave ANT150D (5	142.00	5	101	0.000	0	6
Bird 432-83H-01-T	141.00	25	497	0.001	1	31
Round Side Arm	140.00	450	8,820	0.016	26	557
Alcatel-Lucent TD-RR	134.00	210	3,771	0.007	11	260
RFS APXVTM14-C-I20	134.00	159	2,850	0.005	8	196
RFS APXVSP18-C-A20	134.00	171	3,070	0.005	9	212
Flat Platform w/ Han	134.00	2,000	35,912	0.063	106	2,476
Alcatel-Lucent 800 M	132.00	185	3,230	0.006	10	229
Alcatel-Lucent 1900M	132.00	132	2,300	0.004	7	163

Site Number: 302506

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Site Name: Winchester CT 3, CT

Engineering Number: 13201995_C3_07

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Customer: AT&T MOBILITY

Nokia AHCA AirScale	125.00	106	1,655	0.003	5	131
Alcatel-Lucent B25 R	125.00	159	2,484	0.004	7	197
Alcatel-Lucent B13 R	125.00	173	2,709	0.005	8	215
Nokia B66a RRH4x45 (	125.00	170	2,663	0.005	8	211
Raycap RCMD-6627-PF	125.00	32	500	0.001	1	40
Antel LPA-80080/6CF	125.00	84	1,313	0.002	4	104
Commscope JAHH-65B-R	125.00	364	5,681	0.010	17	450
Antel LPA-80063/6CF	125.00	54	844	0.001	2	67
Round Low Profile PI	125.00	1,500	23,438	0.041	69	1,857
Decibel DB844H90E-XY	115.00	168	2,222	0.004	7	208
Round Low Profile PI	115.00	1,500	19,838	0.035	59	1,857
RFS APXV18-206517S-C	105.00	79	873	0.002	3	98
Andrew DB586	97.00	8	78	0.000	0	10
Bird 429-83H-01-T	95.00	20	181	0.000	1	25
Flat Side Arm	95.00	450	4,061	0.007	12	557
Andrew DB586	93.00	8	72	0.000	0	10
RFS PA6-65AC	80.00	278	1,779	0.003	5	344
PCTEL GPS-TMG-HR-26N	78.00	1	4	0.000	0	1
Generic GPS	30.00	10	9	0.000	0	12
		55,816	566,515	1.000	1,674	69,086

Load Case 0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
54	179.50	45	1,459	0.003	4	39
53	177.00	186	5,814	0.010	17	160
52	172.50	242	7,201	0.013	21	209
51	168.00	202	5,690	0.010	17	174
50	165.50	64	1,744	0.003	5	55
49	162.50	325	8,585	0.015	25	280
48	157.50	336	8,340	0.015	25	290
47	152.50	347	8,078	0.014	24	299
46	148.50	216	4,767	0.008	14	186
45	146.50	75	1,601	0.003	5	64
44	145.50	79	1,675	0.003	5	68
43	143.50	240	4,944	0.009	15	207
42	141.50	81	1,627	0.003	5	70
41	140.50	83	1,635	0.003	5	71
40	137.93	347	6,597	0.012	19	299
39	135.43	145	2,654	0.005	8	125
38	134.50	167	3,030	0.005	9	144
37	133.06	325	5,755	0.010	17	280
36	132.06	15	256	0.000	1	13
35	131.00	247	4,241	0.007	13	213
34	127.50	631	10,253	0.018	30	544
33	122.50	680	10,210	0.018	30	587
32	117.50	699	9,649	0.017	29	603
31	112.50	755	9,558	0.017	28	651
30	107.50	774	8,941	0.016	26	667
29	104.38	202	2,206	0.004	7	175
28	101.88	865	8,976	0.016	27	746
27	98.50	699	6,786	0.012	20	603
26	96.00	471	4,337	0.008	13	406
25	94.00	474	4,187	0.007	12	409
24	92.73	129	1,113	0.002	3	112
23	91.23	917	7,634	0.013	23	791
22	88.77	928	7,316	0.013	22	801
21	86.27	670	4,986	0.009	15	578
20	82.50	1,336	9,090	0.016	27	1,152
19	79.00	541	3,379	0.006	10	467

18	76.50	819	4,795	0.008	14	706
17	72.50	1,383	7,271	0.013	21	1,193
16	67.50	1,405	6,404	0.011	19	1,212
15	62.50	1,428	5,577	0.010	16	1,231
14	57.50	1,450	4,794	0.008	14	1,250
13	52.50	1,472	4,058	0.007	12	1,269
12	49.52	285	699	0.001	2	246
11	47.02	2,011	4,446	0.008	13	1,734
10	43.98	1,029	1,990	0.004	6	887
9	41.48	976	1,679	0.003	5	842
8	37.50	1,671	2,350	0.004	7	1,441
7	32.50	1,697	1,792	0.003	5	1,463
6	27.50	1,725	1,304	0.002	4	1,487
5	22.50	1,751	886	0.002	3	1,509
4	17.50	1,776	544	0.001	2	1,532
3	12.50	1,802	282	0.000	1	1,554
2	7.50	1,828	103	0.000	0	1,576
1	2.50	1,854	12	0.000	0	1,599
Generic 4' Omni	180.00	10	324	0.001	1	9
Kaelus DBC0061F1V51-	180.00	51	1,652	0.003	5	44
Powerwave Allgon TT1	180.00	48	1,555	0.003	5	41
Powerwave Allgon LGP	180.00	42	1,371	0.002	4	36
Raycap DC6-48-60-18-	180.00	60	1,944	0.003	6	52
Ericsson RRUS 8843 B	180.00	216	6,998	0.012	21	186
Ericsson RRUS 4478 B	180.00	120	3,882	0.007	11	103
Ericsson RRUS 4449 B	180.00	213	6,901	0.012	20	184
Ericsson RRUS 32 B30	180.00	180	5,832	0.010	17	155
Ericsson RRUS E2 B29	180.00	180	5,832	0.010	17	155
CCI OPA65R-BU6B	180.00	165	5,346	0.009	16	142
CCI HPA-65R-BUU-H6	180.00	153	4,957	0.009	15	132
CCI DMP65R-BU6DA	180.00	238	7,718	0.014	23	205
Flat Platform w/ Han	180.00	2,000	64,800	0.114	192	1,724
Kathrein Scala MF-90	179.00	13	417	0.001	1	11
Fastback Networks In	166.00	9	242	0.000	1	8
Ericsson Radio 4449	166.00	222	6,117	0.011	18	191
Ericsson AIR 21, 1.3	166.00	249	6,861	0.012	20	215
Ericsson AIR 21, 1.3	166.00	244	6,737	0.012	20	211
Round T-Arm w/ Reinf	166.00	1,215	33,481	0.059	99	1,048
RFS APXVAARR24_43-U-	166.00	384	10,573	0.019	31	331
Sinclair SD210-SF2P4	150.00	8	187	0.000	1	7
Round Side Arm	150.00	150	3,375	0.006	10	129
Sinclair SC442D-HF1L	147.00	79	1,707	0.003	5	68
Sinclair SC479-HF1LD	146.00	34	725	0.001	2	29
Decibel DB809DK-XT	146.00	128	2,728	0.005	8	110
Telewave ANT150D (5	142.00	5	101	0.000	0	4
Bird 432-83H-01-T	141.00	25	497	0.001	1	22
Round Side Arm	140.00	450	8,820	0.016	26	388
Alcatel-Lucent TD-RR	134.00	210	3,771	0.007	11	181
RFS APXVTM14-C-I20	134.00	159	2,850	0.005	8	137
RFS APXVSP18-C-A20	134.00	171	3,070	0.005	9	147
Flat Platform w/ Han	134.00	2,000	35,912	0.063	106	1,724
Alcatel-Lucent 800 M	132.00	185	3,230	0.006	10	160
Alcatel-Lucent 1900M	132.00	132	2,300	0.004	7	114
Nokia AHCA AirScale	125.00	106	1,655	0.003	5	91
Alcatel-Lucent B25 R	125.00	159	2,484	0.004	7	137
Alcatel-Lucent B13 R	125.00	173	2,709	0.005	8	150
Nokia B66a RRH4x45 (	125.00	170	2,663	0.005	8	147
Raycap RCMDC-6627-PF	125.00	32	500	0.001	1	28
Antel LPA-80080/6CF	125.00	84	1,313	0.002	4	72
Commscope JAHH-65B-R	125.00	364	5,681	0.010	17	314
Antel LPA-80063/6CF	125.00	54	844	0.001	2	47
Round Low Profile PI	125.00	1,500	23,438	0.041	69	1,293
Decibel DB844H90E-XY	115.00	168	2,222	0.004	7	145
Round Low Profile PI	115.00	1,500	19,838	0.035	59	1,293

Site Number: 302506

Code: ANSI/TIA-222-H

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Site Name: Winchester CT 3, CT

Engineering Number: 13201995_C3_07

8/5/2020 8:44:24 PM

Customer: AT&T MOBILITY

RFS APXV18-206517S-C	105.00	79	873	0.002	3	68
Andrew DB586	97.00	8	78	0.000	0	7
Bird 429-83H-01-T	95.00	20	181	0.000	1	17
Flat Side Arm	95.00	450	4,061	0.007	12	388
Andrew DB586	93.00	8	72	0.000	0	7
RFS PA6-65AC	80.00	278	1,779	0.003	5	240
PCTEL GPS-TMG-HR-26N	78.00	1	4	0.000	0	1
Generic GPS	30.00	10	9	0.000	0	9
		55,816	566,515	1.000	1,674	48,126

Load Case 1.2D + 1.0Ev + 1.0Eh

Seismic

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-66.79	-1.68	0.00	-241.27	0.00	241.27	5,102.86	1,274.83	6,023.66	5,489.79	0.00	0.00	0.043
5.00	-64.53	-1.69	0.00	-232.87	0.00	232.87	5,029.12	1,248.09	5,773.66	5,296.03	0.01	-0.01	0.042
10.00	-62.30	-1.70	0.00	-224.42	0.00	224.42	4,953.95	1,221.35	5,528.95	5,104.17	0.02	-0.02	0.042
15.00	-60.10	-1.71	0.00	-215.93	0.00	215.93	4,877.36	1,194.61	5,289.54	4,914.28	0.05	-0.03	0.041
20.00	-57.93	-1.71	0.00	-207.39	0.00	207.39	4,799.34	1,167.87	5,055.44	4,726.48	0.09	-0.04	0.041
25.00	-55.80	-1.72	0.00	-198.81	0.00	198.81	4,719.90	1,141.14	4,826.63	4,540.86	0.13	-0.05	0.040
30.00	-53.68	-1.72	0.00	-190.21	0.00	190.21	4,639.03	1,114.40	4,603.12	4,357.51	0.19	-0.06	0.040
35.00	-51.61	-1.72	0.00	-181.60	0.00	181.60	4,556.73	1,087.66	4,384.91	4,176.53	0.27	-0.07	0.039
40.00	-50.41	-1.72	0.00	-172.98	0.00	172.98	4,473.00	1,060.92	4,171.99	3,998.03	0.35	-0.09	0.039
42.96	-49.13	-1.72	0.00	-167.88	0.00	167.88	4,422.82	1,045.11	4,048.59	3,893.68	0.40	-0.09	0.038
45.00	-46.64	-1.71	0.00	-164.36	0.00	164.36	4,378.03	1,034.18	3,964.38	3,813.53	0.45	-0.10	0.037
49.04	-46.29	-1.71	0.00	-157.45	0.00	157.45	3,604.17	884.89	3,386.04	3,138.50	0.53	-0.11	0.042
50.00	-44.47	-1.70	0.00	-155.81	0.00	155.81	3,591.50	880.49	3,352.45	3,111.78	0.55	-0.11	0.042
55.00	-42.67	-1.69	0.00	-147.29	0.00	147.29	3,524.70	857.57	3,180.22	2,973.71	0.67	-0.12	0.041
60.00	-40.90	-1.68	0.00	-138.82	0.00	138.82	3,456.48	834.66	3,012.53	2,837.51	0.81	-0.13	0.040
65.00	-39.16	-1.67	0.00	-130.40	0.00	130.40	3,386.83	811.74	2,849.38	2,703.28	0.95	-0.15	0.038
70.00	-37.45	-1.65	0.00	-122.06	0.00	122.06	3,315.75	788.82	2,690.77	2,571.11	1.12	-0.16	0.037
75.00	-36.44	-1.64	0.00	-113.80	0.00	113.80	3,242.30	765.90	2,536.71	2,440.39	1.29	-0.17	0.036
78.00	-35.77	-1.63	0.00	-108.88	0.00	108.88	3,184.09	752.15	2,446.45	2,353.11	1.40	-0.18	0.036
80.00	-33.77	-1.60	0.00	-105.62	0.00	105.62	3,145.28	742.98	2,387.18	2,295.80	1.48	-0.19	0.035
85.00	-32.94	-1.59	0.00	-97.62	0.00	97.62	3,048.26	720.06	2,242.20	2,155.63	1.68	-0.20	0.034
87.54	-31.79	-1.57	0.00	-93.59	0.00	93.59	2,998.97	708.42	2,170.29	2,086.12	1.78	-0.20	0.033
90.00	-30.65	-1.54	0.00	-89.74	0.00	89.74	2,951.23	697.14	2,101.76	2,019.88	1.89	-0.21	0.032
92.46	-30.49	-1.54	0.00	-85.95	0.00	85.95	2,412.07	583.53	1,766.98	1,661.36	2.00	-0.22	0.036
93.00	-29.90	-1.53	0.00	-85.11	0.00	85.11	2,405.85	581.46	1,754.43	1,651.12	2.03	-0.22	0.035
95.00	-28.73	-1.50	0.00	-82.06	0.00	82.06	2,382.81	573.82	1,708.64	1,613.62	2.12	-0.22	0.035
97.00	-27.86	-1.48	0.00	-79.06	0.00	79.06	2,359.55	566.18	1,663.45	1,576.40	2.21	-0.23	0.034
100.00	-26.79	-1.45	0.00	-74.62	0.00	74.62	2,324.22	554.72	1,596.80	1,521.06	2.36	-0.24	0.033
103.75	-26.54	-1.45	0.00	-69.17	0.00	69.17	2,279.33	540.40	1,515.41	1,452.80	2.55	-0.25	0.031
103.75	-26.54	-1.45	0.00	-69.17	0.00	69.17	2,279.33	540.40	1,515.41	1,452.80	2.55	-0.25	0.059
105.00	-25.48	-1.42	0.00	-67.36	0.00	67.36	2,264.20	535.62	1,488.76	1,430.27	2.62	-0.25	0.058
110.00	-24.54	-1.40	0.00	-60.26	0.00	60.26	2,186.61	516.52	1,384.49	1,331.51	2.89	-0.28	0.056
115.00	-21.62	-1.30	0.00	-53.26	0.00	53.26	2,105.76	497.42	1,284.02	1,234.37	3.20	-0.30	0.053
120.00	-20.77	-1.27	0.00	-46.76	0.00	46.76	2,024.90	478.32	1,187.32	1,140.91	3.52	-0.32	0.051
125.00	-16.72	-1.10	0.00	-40.39	0.00	40.39	1,944.05	459.22	1,094.41	1,051.12	3.88	-0.35	0.047
130.00	-16.42	-1.10	0.00	-34.86	0.00	34.86	1,863.20	440.13	1,005.29	965.02	4.25	-0.37	0.045
132.00	-16.00	-1.08	0.00	-32.67	0.00	32.67	1,830.86	432.49	970.70	931.61	4.41	-0.38	0.044
132.12	-15.60	-1.06	0.00	-32.55	0.00	32.55	1,828.92	432.03	968.65	929.62	4.42	-0.38	0.044
134.00	-12.25	-0.89	0.00	-30.56	0.00	30.56	1,798.52	424.85	936.71	898.78	4.57	-0.39	0.041
135.00	-12.07	-0.89	0.00	-29.66	0.00	29.66	1,782.35	421.03	919.95	882.59	4.65	-0.40	0.040
135.87	-11.64	-0.87	0.00	-28.89	0.00	28.89	993.95	255.84	566.08	501.09	4.73	-0.40	0.069
140.00	-10.99	-0.83	0.00	-25.32	0.00	25.32	969.84	246.38	524.97	470.70	5.08	-0.42	0.065
141.00	-10.85	-0.83	0.00	-24.49	0.00	24.49	963.86	244.09	515.25	463.41	5.17	-0.42	0.064
142.00	-10.55	-0.81	0.00	-23.66	0.00	23.66	957.82	241.79	505.62	456.15	5.26	-0.43	0.063
145.00	-10.45	-0.81	0.00	-21.23	0.00	21.23	939.35	234.92	477.28	434.53	5.54	-0.45	0.060
146.00	-10.16	-0.79	0.00	-20.42	0.00	20.42	933.08	232.63	468.01	427.39	5.63	-0.46	0.059
147.00	-9.79	-0.77	0.00	-19.63	0.00	19.63	926.76	230.34	458.83	420.27	5.73	-0.47	0.057

Site Number: 302506

Code: ANSI/TIA-222-H

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Site Name: Winchester CT 3, CT

Engineering Number: 13201995_C3_07

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Customer: AT&T MOBILITY

150.00	-9.17	-0.74	0.00	-17.31	0.00	17.31	907.44	223.46	431.85	399.13	6.03	-0.49	0.053
155.00	-8.75	-0.71	0.00	-13.62	0.00	13.62	874.09	212.00	388.70	364.57	6.55	-0.52	0.047
160.00	-8.35	-0.69	0.00	-10.06	0.00	10.06	839.33	200.54	347.82	330.98	7.11	-0.54	0.040
165.00	-8.27	-0.68	0.00	-6.62	0.00	6.62	800.44	189.08	309.21	297.43	7.69	-0.56	0.033
166.00	-5.15	-0.45	0.00	-5.93	0.00	5.93	790.74	186.79	301.76	290.23	7.81	-0.57	0.027
170.00	-4.85	-0.42	0.00	-4.14	0.00	4.14	751.93	177.62	272.87	262.30	8.29	-0.58	0.022
175.00	-4.62	-0.41	0.00	-2.02	0.00	2.02	703.42	166.16	238.80	229.37	8.91	-0.59	0.015
179.00	-4.55	-0.40	0.00	-0.40	0.00	0.40	664.61	156.99	213.19	204.62	9.41	-0.60	0.009
180.00	0.00	-0.35	0.00	0.00	0.00	0.00	654.91	154.70	207.01	198.65	9.53	-0.60	0.000

Load Case 0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-46.53	-1.68	0.00	-236.46	0.00	236.46	5,102.86	1,274.83	6,023.66	5,489.79	0.00	0.00	0.039
5.00	-44.95	-1.68	0.00	-228.07	0.00	228.07	5,029.12	1,248.09	5,773.66	5,296.03	0.01	-0.01	0.039
10.00	-43.40	-1.69	0.00	-219.65	0.00	219.65	4,953.95	1,221.35	5,528.95	5,104.17	0.02	-0.02	0.038
15.00	-41.86	-1.70	0.00	-211.19	0.00	211.19	4,877.36	1,194.61	5,289.54	4,914.28	0.05	-0.03	0.038
20.00	-40.35	-1.70	0.00	-202.71	0.00	202.71	4,799.34	1,167.87	5,055.44	4,726.48	0.08	-0.04	0.037
25.00	-38.87	-1.70	0.00	-194.21	0.00	194.21	4,719.90	1,141.14	4,826.63	4,540.86	0.13	-0.05	0.037
30.00	-37.40	-1.70	0.00	-185.70	0.00	185.70	4,639.03	1,114.40	4,603.12	4,357.51	0.19	-0.06	0.036
35.00	-35.95	-1.70	0.00	-177.19	0.00	177.19	4,556.73	1,087.66	4,384.91	4,176.53	0.26	-0.07	0.036
40.00	-35.11	-1.70	0.00	-168.69	0.00	168.69	4,473.00	1,060.92	4,171.99	3,998.03	0.34	-0.08	0.035
42.96	-34.22	-1.70	0.00	-163.66	0.00	163.66	4,422.82	1,045.11	4,048.59	3,893.68	0.40	-0.09	0.035
45.00	-32.49	-1.68	0.00	-160.19	0.00	160.19	4,378.03	1,034.18	3,964.38	3,813.53	0.44	-0.09	0.034
49.04	-32.24	-1.69	0.00	-153.39	0.00	153.39	3,604.17	884.89	3,386.04	3,138.50	0.52	-0.10	0.038
50.00	-30.98	-1.67	0.00	-151.77	0.00	151.77	3,591.50	880.49	3,352.45	3,111.78	0.54	-0.11	0.038
55.00	-29.72	-1.66	0.00	-143.40	0.00	143.40	3,524.70	857.57	3,180.22	2,973.71	0.66	-0.12	0.037
60.00	-28.49	-1.65	0.00	-135.08	0.00	135.08	3,456.48	834.66	3,012.53	2,837.51	0.79	-0.13	0.036
65.00	-27.28	-1.64	0.00	-126.82	0.00	126.82	3,386.83	811.74	2,849.38	2,703.28	0.93	-0.14	0.035
70.00	-26.09	-1.62	0.00	-118.64	0.00	118.64	3,315.75	788.82	2,690.77	2,571.11	1.09	-0.16	0.034
75.00	-25.38	-1.60	0.00	-110.56	0.00	110.56	3,242.30	765.90	2,536.71	2,440.39	1.26	-0.17	0.033
78.00	-24.91	-1.60	0.00	-105.75	0.00	105.75	3,184.09	752.15	2,446.45	2,353.11	1.37	-0.18	0.033
80.00	-23.52	-1.56	0.00	-102.55	0.00	102.55	3,145.28	742.98	2,387.18	2,295.80	1.44	-0.18	0.032
85.00	-22.94	-1.55	0.00	-94.74	0.00	94.74	3,048.26	720.06	2,242.20	2,155.63	1.64	-0.19	0.031
87.54	-22.14	-1.53	0.00	-90.80	0.00	90.80	2,998.97	708.42	2,170.29	2,086.12	1.74	-0.20	0.030
90.00	-21.35	-1.51	0.00	-87.04	0.00	87.04	2,951.23	697.14	2,101.76	2,019.88	1.85	-0.21	0.029
92.46	-21.24	-1.50	0.00	-83.34	0.00	83.34	2,412.07	583.53	1,766.98	1,661.36	1.95	-0.21	0.032
93.00	-20.83	-1.49	0.00	-82.52	0.00	82.52	2,405.85	581.46	1,754.43	1,651.12	1.98	-0.21	0.032
95.00	-20.01	-1.46	0.00	-79.54	0.00	79.54	2,382.81	573.82	1,708.64	1,613.62	2.07	-0.22	0.031
97.00	-19.40	-1.44	0.00	-76.62	0.00	76.62	2,359.55	566.18	1,663.45	1,576.40	2.16	-0.22	0.031
100.00	-18.66	-1.42	0.00	-72.29	0.00	72.29	2,324.22	554.72	1,596.80	1,521.06	2.30	-0.23	0.030
103.75	-18.48	-1.41	0.00	-66.98	0.00	66.98	2,279.33	540.40	1,515.41	1,452.80	2.49	-0.24	0.028
103.75	-18.48	-1.41	0.00	-66.98	0.00	66.98	2,279.33	540.40	1,515.41	1,452.80	2.49	-0.24	0.054
105.00	-17.75	-1.38	0.00	-65.21	0.00	65.21	2,264.20	535.62	1,488.76	1,430.27	2.55	-0.24	0.053
110.00	-17.10	-1.36	0.00	-58.29	0.00	58.29	2,186.61	516.52	1,384.49	1,331.51	2.82	-0.27	0.052
115.00	-15.06	-1.26	0.00	-51.50	0.00	51.50	2,105.76	497.42	1,284.02	1,234.37	3.12	-0.29	0.049
120.00	-14.47	-1.23	0.00	-45.18	0.00	45.18	2,024.90	478.32	1,187.32	1,140.91	3.43	-0.32	0.047
125.00	-11.65	-1.07	0.00	-39.01	0.00	39.01	1,944.05	459.22	1,094.41	1,051.12	3.78	-0.34	0.043
130.00	-11.43	-1.06	0.00	-33.66	0.00	33.66	1,863.20	440.13	1,005.29	965.02	4.14	-0.36	0.041
132.00	-11.15	-1.04	0.00	-31.54	0.00	31.54	1,830.86	432.49	970.70	931.61	4.30	-0.37	0.040
132.12	-10.87	-1.02	0.00	-31.41	0.00	31.41	1,828.92	432.03	968.65	929.62	4.31	-0.37	0.040
134.00	-8.53	-0.87	0.00	-29.49	0.00	29.49	1,798.52	424.85	936.71	898.78	4.45	-0.38	0.038
135.00	-8.41	-0.86	0.00	-28.62	0.00	28.62	1,782.35	421.03	919.95	882.59	4.53	-0.38	0.037
135.87	-8.11	-0.84	0.00	-27.87	0.00	27.87	993.95	255.84	566.08	501.09	4.60	-0.39	0.064
140.00	-7.65	-0.81	0.00	-24.41	0.00	24.41	969.84	246.38	524.97	470.70	4.95	-0.41	0.060
141.00	-7.56	-0.80	0.00	-23.60	0.00	23.60	963.86	244.09	515.25	463.41	5.03	-0.41	0.059
142.00	-7.35	-0.79	0.00	-22.80	0.00	22.80	957.82	241.79	505.62	456.15	5.12	-0.42	0.058
145.00	-7.28	-0.78	0.00	-20.45	0.00	20.45	939.35	234.92	477.28	434.53	5.39	-0.44	0.055
146.00	-7.08	-0.77	0.00	-19.67	0.00	19.67	933.08	232.63	468.01	427.39	5.48	-0.45	0.054
147.00	-6.82	-0.75	0.00	-18.90	0.00	18.90	926.76	230.34	458.83	420.27	5.58	-0.45	0.052

Site Number: 302506

Code: ANSI/TIA-222-H

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Site Name: Winchester CT 3, CT

Engineering Number: 13201995_C3_07

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Customer: AT&T MOBILITY

150.00	-6.38	-0.71	0.00	-16.66	0.00	16.66	907.44	223.46	431.85	399.13	5.87	-0.47	0.049
155.00	-6.09	-0.69	0.00	-13.11	0.00	13.11	874.09	212.00	388.70	364.57	6.38	-0.50	0.043
160.00	-5.81	-0.66	0.00	-9.67	0.00	9.67	839.33	200.54	347.82	330.98	6.91	-0.53	0.036
165.00	-5.76	-0.66	0.00	-6.37	0.00	6.37	800.44	189.08	309.21	297.43	7.48	-0.55	0.029
166.00	-3.58	-0.43	0.00	-5.71	0.00	5.71	790.74	186.79	301.76	290.23	7.59	-0.55	0.024
170.00	-3.38	-0.41	0.00	-3.99	0.00	3.99	751.93	177.62	272.87	262.30	8.06	-0.56	0.020
175.00	-3.22	-0.39	0.00	-1.94	0.00	1.94	703.42	166.16	238.80	229.37	8.66	-0.58	0.013
179.00	-3.17	-0.38	0.00	-0.38	0.00	0.38	664.61	156.99	213.19	204.62	9.14	-0.58	0.007
180.00	0.00	-0.35	0.00	0.00	0.00	0.00	654.91	154.70	207.01	198.65	9.26	-0.58	0.000

Site Number: 302506

Code: ANSI/TIA-222-H

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Site Name: Winchester CT 3, CT

Engineering Number: 13201995_C3_07

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Customer: AT&T MOBILITY

Analysis Summary

Load Case	Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W	49.19	0.00	66.88	0.00	0.00	5602.88	135.87	0.98
0.9D + 1.0W	49.16	0.00	50.13	0.00	0.00	5520.20	135.87	0.94
1.2D + 1.0Di + 1.0Wi	8.96	0.00	98.23	0.00	0.00	1152.50	135.87	0.26
1.2D + 1.0Ev + 1.0Eh	1.68	0.00	66.79	0.00	0.00	241.27	135.87	0.07
0.9D - 1.0Ev + 1.0Eh	1.68	0.00	46.53	0.00	0.00	236.46	135.87	0.06
1.0D + 1.0W	10.30	0.00	55.81	0.00	0.00	1165.47	135.87	0.21

Site Number: 302506

Code: ANSI/TIA-222-H

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Site Name: Winchester CT 3, CT

Engineering Number: 13201995_C3_07

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Customer: AT&T MOBILITY

Additional Steel Summary

			Intermediate Connectors				Max Member		
Elev From (ft)	Elev To (ft)	Member	VQ/I (lb/in)	Shear Applied (kips)	Shear phiVn (kips)	Ratio	Pu (kip)	phiPn (kip)	Ratio
0.00	103.75	(4) SOL-#20 All Thread Bar	391.5	11.7	16.8	0.699	294.3	330.5	0.891

			Upper Termination Connectors				Lower Termination Connectors					
Elev From (ft)	Elev To (ft)	Member	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Ratio	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Ratio
0.00	103.75	(4) SOL-#20 All Thread Bar	196.7	12.0	17	24	0.683	0.0	12.0	0	0	0.000



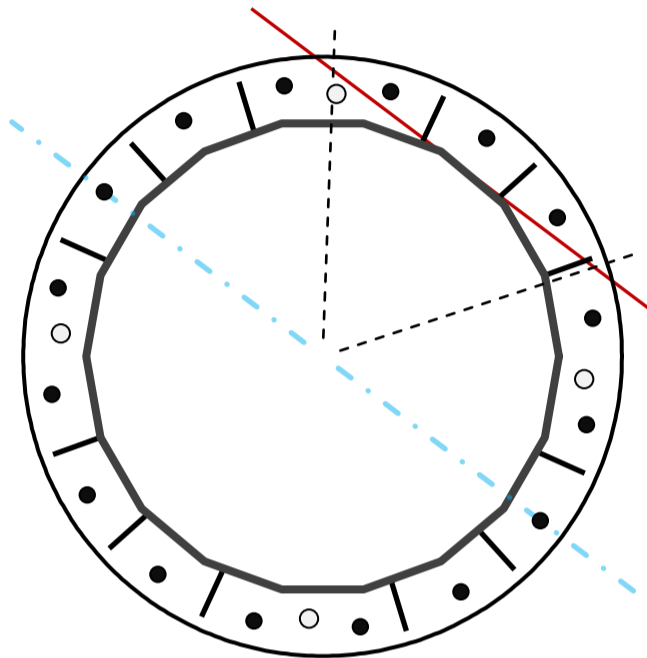
Base Plate & Anchor Rod Analysis

Pole Dimensions		
Number of Sides	18	-
Diameter	52.75	in
Thickness	0.4375	in
Orientation Offset	0	°

Base Reactions		
Moment, Mu	5602.9	k-ft
Axial, Pu	66.9	k
Shear, Vu	49.2	k
Neutral Axis	323	°

Report Capacities		
Component	Capacity	Result
Base Plate	42%	Pass
Anchor Rods	83%	Pass
Dwyidag	64%	Pass

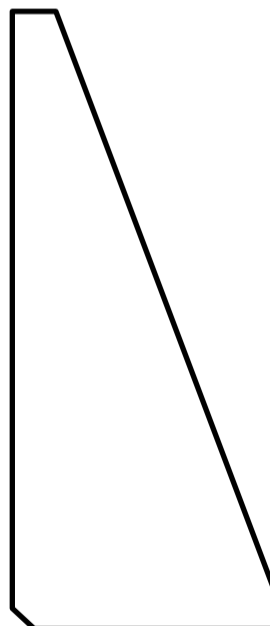
Base Plate		
Shape	Round	-
Diameter, ϕ	68	in
Thickness	2	in
Grade	A572-60	
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	75	ksi
Clip	N/A	in
Orientation Offset	0	°
Anchor Rod Detail	d	$\eta=0.5$
Clear Distance	3	in
Applied Moment, Mu	1151.8	k
Bending Stress, ϕMn	2712.0	k



Dwyidag Reinforcement		
Quantity	4	-
Bar Size	#20	in
Diameter, ϕ	2.5	in
Bracket Type	Angle	-
Circle	59.63	in
Orientation Offset	0	°
Applied Force, Pu	252.0	k
Dwyidag Bar, ϕPn	392.7	k

Original Anchor Rods		
Arrangement	Radial	-
Quantity	16	-
Diameter, ϕ	2 1/4	in
Bolt Circle	62	in
Grade	A615-75	
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Spacing	12.2	in
Orientation Offset	8	°
Applied Force, Pu	212.5	k
Anchor Rods, ϕPn	259.8	k

Stiffeners		
Arrangement	Radial	-
Quantity	12	-
Height	15	in
Width	6	in
Effective Width	6.000	in
Thickness	3/4	in
Effective Thickness	0.460	in
Notch	0.5	in
Flat Edge	1	in
Grade	A36	
Yield Strength, Fy	36	ksi
Tensile Strength, Fu	58	ksi
Horizontal Weld	Fillet	
Horizontal Fillet Size	5/16	in
Bevel Depth	0	in
Vertical Weld	Fillet	
Vertical Fillet Size	5/16	in
Weld Strength	70	ksi
Electrode Coefficient	1	-
Orientation Offset	0	°
Vertical Weld, ϕRn	209.3	k
Horz. Weld, ϕRn	88.7	k
Ten. Capacity, ϕTn	133.7	k
Comp. Capacity, ϕPn	202.9	k



Calculations for Monopole Base Plate & Anchor Rod Analysis

Reaction Distribution

Reaction	Shear Vu	Moment Mu	Factor
-	k	k-ft	-
Base Forces	49.2	4164.1	0.74
Anchor Rod Forces	49.2	4164.1	0.74
Additional Bolt (Grp1) Forces	0.0	0.0	0.00
Additional Bolt (Grp2) Forces	0.0	0.0	0.00
Dywidag Forces	0.0	1438.8	0.26
Stiffener Forces	16.2	1374.5	0.25

Geometric Properties

Section	Gross Area	Net Area	Individual Inertia	Threads per Inch	Moment of Inertia
-	in ²	in ²	in ⁴	#	in ⁴
Pole	71.5363	3.9742	0.2546		24475.33
Bolt	3.9761	3.2477	0.8393	4.5	23105.42
Bolt1	0.0000	0.0000	0.0000	0	0.00
Bolt2	0.0000	0.0000	0.0000	0	0.00
Dywidag	4.9087	4.9087	1.9175		8456.52
Stiffener	2.5300	2.2770	33.1200		12058.84

Base Plate		
Shape	Round	-
Diameter, D	68	in
Thickness, t	2	in
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	75	ksi
Base Plate Chord	42.912	in
Detail Type	d	-
Detail Factor	0.50	-
Clear Distance	3	-

Anchor Rods		
Anchor Rod Quantity, N	16	-
Rod Diameter, d	2.25	in
Bolt Circle, BC	62	in
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	212.5	k
Applied Shear, Vu	1.5	k
Compressive Capacity, φPn	259.8	k
Tensile Capacity, φRnt	0.818	OK
Interaction Capacity	0.829	OK

Base Plate Stiffeners		
Applied Axial Force, Pu	91.2	k
Applied Horizontal Force, Vu	0.68	k
Vertical Weld		
Vert.-to-Stiffener a=e _x /l	0.133	-
Spacing Ratio, k	0.050	-
Weld Coefficient, C	3.720	-
Compressive Capacity, φPn	209.3	k
Vert.-to-Plate a=e _x /l	0.333	-
Spacing Ratio, k	0.050	-
Weld Coefficient, C	2.940	-
Shear Capacity, φVn	165.4	k
P _u /φ _p P _n + V _u /φ _v V _n	0.440	OK

External Base Plate		
Chord Length AA	36.939	in
Additional AA	13.282	in
Section Modulus, Z	50.221	in ³
Applied Moment, Mu	1151.8	k-ft
Bending Capacity, φMn	2712.0	k-ft
Capacity, Mu/φMn	0.425	OK

Horizontal Weld		
Horz.-to-Stiffener a=e _x /l	0.167	-
Spacing Ratio, k	0.125	-
Weld Coefficient, C	3.940	-
Effective Fillet	0.313	in
Compressive Capacity, φPn	88.7	k
Horz.-to-Pole a=e _x /l	0.417	-
Spacing Ratio, k	0.125	-
Weld Coefficient, C	2.670	-
Shear Capacity, φVn	60.1	k
P _u /φ _p P _n + V _u /φ _v V _n	1.040	OK

Chord Length AB	35.743	in
Additional AB	11.829	in
Section Modulus, Z	47.572	in ³
Applied Moment, Mu	904.9	k-ft
Bending Capacity, φMn	2568.9	k-ft
Capacity, Mu/φMn	0.352	OK

Plate Tension		
Gross Cross Section	2.530	in ²
Net Cross Section	2.277	in ²
Tensile Capacity, φTn	133.7	k
Capacity, Tu/φTn	0.341	OK

Bend Line Length	39.032	in
Additional Bend Line	69.663	in
Section Modulus, Z	108.695	in ³
Applied Moment, Mu	1151.8	k-ft
Bending Capacity, φMn	5869.5	k-ft
Capacity, Mu/φMn	0.196	OK

Plate Compression		
Radius of Gyration	0.133	in ³
kl/r	67.78	-
4.71 √(E/Fy)	133.68	-
Buckling Stress(F _e)	62.3	-
Crit. Buckling Stress(F _{cr})	54.6	ksi
Compressive Capacity, φPn	202.9	k
Capacity, Pu/φPn	0.225	OK

Internal Base Plate		
Arc Length	0.000	in
Section Modulus, Z	0.000	in ³
Moment Arm	0.000	in
Applied Moment, Mu	0.0	k-ft
Bending Capacity, φMn	0.0	k-ft
Capacity, Mu/φMn		

Dywidag Reinforcement		
Dywidag Quantity, N	4	-
Dywidag Diameter, d	2.5	in
Bolt Circle, BC	59.63	in
Yield Strength, Fy	80	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	252.0	k
Compressive Capacity, φPn	392.7	k
Capacity, Pu/φPn	0.642	OK

Pier Foundation Analysis (ANSI/TIA-222-H)

Foundation Analysis Parameters			
Pier Diameter	D	7.50	ft
Pier Embedment	$L-h$	18.2	ft
Pier Height above Ground	H	0.83	ft
Water Table Depth [BGL]	GW	99	ft
Pullout Angle	Θ	30	°
Unit Weight of Concrete		150	pcf
Uplift Skin Friction Factor		1.000	

Reactions		
Moment, M_u	5,602.9	k-ft
Shear, V_u	49.2	k
Axial, P_u	66.9	k
Uplift, T_u	0.0	k

Soil Properties						
Layer Depth (ft)		Unit Weight	Cohesion	Friction Angle	Ultimate Skin Friction	Ultimate Bearing Pressure
TOP	BTM	pcf	psf	°	psf	psf
0.0	2.5	105	0	0	0	0
2.5	7.5	138	8,486	0	0	0
7.5	19.2	139	10,168	0	4,576	45,116

Soil Strength Capacities		
Volume of Concrete	839.0	ft ³
Weight of Concrete [Buoyancy Considered]	125.8	k
Average Soil Unit Weight	134.0	pcf
Skin Friction Resistance	1,149.4	k
Compressive Bearing Resistance	1,993.2	k
Pullout Weight [Minus Concrete Weight]	580.9	k
Compressive Force, P_u	82.2	k
Nominal Compressive Capacity, $\phi_s P_n$	2,356.9	k
$P_u / \phi_s P_n$	3.5%	
Total Lateral Resistance	7,777.0	k
Inflection Point [BGL]	11.0	ft
Moment at Inflection Point, M_D	6,185.9	k-ft
Nominal Moment Capacity, $\phi_s M_n$	21,391.2	k-ft
$M_D / \phi_s M_n$	28.9%	

