

Derek Maheux Program Manager
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Suite 301
West Bridgewater, MA 02379
Mobile: (508)649-3407
Dmaheux@clinellc.com

January 22, 2024

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

**RE: Notice of Exempt Modification // Site: WOLCOTT N CT (ATC: 274848)
1192 Wolcott Road, Wolcott, CT 06716
N 41.61803611 // W -72.97124444**

Dear Ms. Bachman,

Cellco Partnership d/b/a Verizon Wireless currently maintains twelve (12) antenna at the 135-ft level on the existing 181 ft Tower, located at 1192 Wolcott Road, Wolcott, CT. The tower is owned by American Tower. Verizon Wireless proposed modification involves the installation of a new mount modification along with the additional of three (3) RRH on Verizon Wireless existing antenna platform and mounting assembly. Additionally, Verizon will be installing (3) OVPS, (15) UPconverters, (29) Kits and (10) Hybrid fiber cables within the existing ground equipment space.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §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 Bethany's Chief Elected Official and Land Use Officer.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Enclosed to accommodate this filing are construction drawings dated December 15, 2023, by A.T Engineering Services, LLC, a structural analysis dated January 4, 2024, by American Tower Corp., and a structural mount analysis by Colliers Engineering and Design dated November 15, 2023, and Non-Ionizing Electromagnetic Radiation (NIER) Study dated December 10, 2023, by Tower Engineering Professionals.

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

2. The proposed modifications will not require the 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 new antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading, as shown in the attached structural analysis and a structural mount analysis, pursuant to certain conditions defined therein. Design and engineering are fully illustrated within final construction drawings.

For the foregoing reasons, Verizon Wireless 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,

Derek Maheux

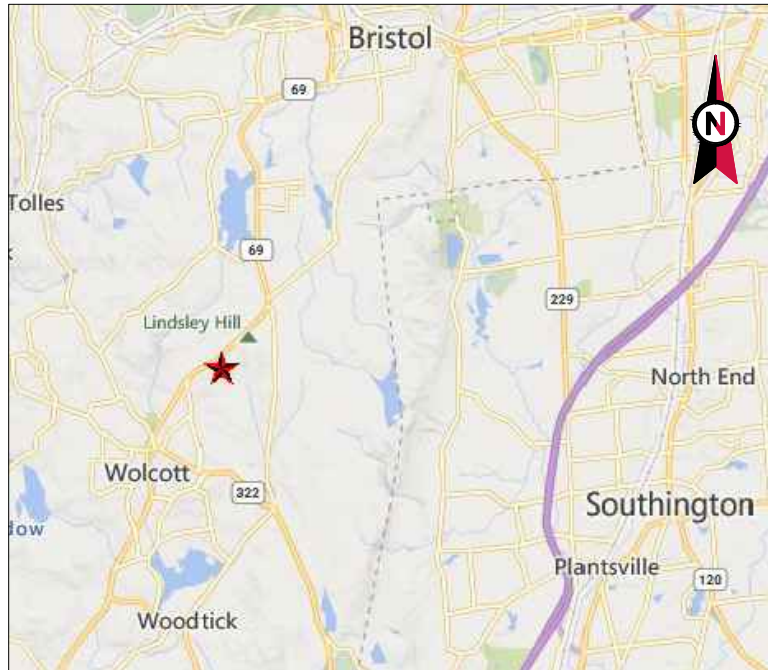
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Dmaheux@clinellc.com

Attachments: Exhibit 1 – Construction Drawings
Exhibit 2 – Property Card and GIS
Exhibit 3 – Structural Analysis
Exhibit 4 – Mount Analysis
Exhibit 5 – RF Emissions Analysis Report Evaluation
Exhibit 6 – Available Original Tower Approval Records
Exhibit 7 – Notice Deliver Confirmations

cc: Thomas G. Dunn – Mayor – Chief Elected Official
David Kalinowski – Zoning Enforcement Officer - as P&Z official
American Tower Corporation - as tower owner & ground owner

EXHIBIT 1





VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: WOLCOTT RD CT
 ATC SITE NUMBER: 274848
 VERIZON SITE NAME: WOLCOTT N CT
 VERIZON SITE NUMBER: 5000384285
 VERIZON FUZE PID: 16272066
 SITE ADDRESS: 1192 WOLCOTT RD
 WOLCOTT, CT 06716



LOCATION MAP

AMERICAN TOWER®
A.T. ENGINEERING SERVICES LLC
 1 FENTON MAIN
 SUITE 300
 CARY, NC 27511
 PHONE: (919) 468-0112
 PEC.0001553

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	VAR	12/15/23

ATC SITE NUMBER:
 274848
 ATC SITE NAME:
 WOLCOTT RD CT
 VERIZON SITE NAME:
 WOLCOTT N CT
 SITE ADDRESS:
 1192 WOLCOTT RD
 WOLCOTT, CT 06716



VERIZON AMENDMENT DRAWINGS

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. 2020 NFPA 70, NATIONAL ELECTRIC CODE (NEC) 2. 2022 CONNECTICUT STATE BUILDING CODE 3. 2021 INTERNATIONAL BUILDING CODE (IBC) <u>DESIGN CRITERIA FROM TOWER STRUCTURAL ANALYSIS:</u> BASIC WIND SPEED: 114 mph BASIC WIND SPEED W/ ICE: 49 mph W/ 0.85" ICE CODE(S): ANSITIA-222-H / 2021 IBC / 2022 CONNECTICUT STATE BUILDING CODE EXPOSURE CATEGORY: B RISK CATEGORY: II TOPO FACTOR PROCEDURE: METHOD 1 TOPOGRAPHIC CATEGORY: 1 FEATURE: N/A SPECTRAL RESPONSE: S _s =0.191, S ₁ =0.054 SITE CLASS: N/A INFORMATION TAKEN FROM STRUCTURAL ANALYSIS COMPLETED BY ATC, DATED 11/15/23.	<u>SITE ADDRESS:</u> 1192 WOLCOTT RD WOLCOTT, CT 06716 COUNTY: NEW HAVEN <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41° 37' 4.934" N LONGITUDE: 72° 58' 16.467" W GROUND ELEVATION: 1050' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: <u>TOWER WORK:</u> REMOVE (9) ANTENNA(s), (3) RRH(s), (1) OVP(s), AND (1) 1-5/8" COAX CABLE(s) INSTALL MOUNT MODIFICATIONS, (3) SIDE-BY-SIDE ANTENNA MOUNTING BRACKET(s), (9) ANTENNA(s), (6) RRH(s), (1) OVP(s), AND (1) 1-5/8" HYBRID CABLE(s) EXISTING (3) ANTENNA(s), (11) 1-5/8" COAX, AND (1) 1-5/8" HYBRID CABLE(s) TO REMAIN <u>GROUND WORK:</u> REMOVE (3) RRU(s) INSTALL (3) OVP(s), (15) UPCONVERTER(s), (29) KIT(s), (10) HYBRID FIBER(s), AND (12) OTHER	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> ATC TOWER SERVICES, LLC 1 FENTON MAIN, STE 300 CARY, NC 27511 <u>PROPERTY OWNER:</u> AMERICAN TOWER LLC 116 HUNTINGTON AVE #1100 BOSTON, MA 02116	<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. 6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).	G-001	TITLE SHEET	0	12/15/23	VAR
			G-002	GENERAL NOTES	0	12/15/23	VAR
<u>UTILITY COMPANIES</u> POWER COMPANY: EVERSOURCE PHONE: (877) 659-6326 TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (803) 766-843	<u>APPLICANT:</u> VERIZON WIRELESS	C-101	DETAILED SITE PLAN	0	12/15/23	VAR	
		C-201	TOWER ELEVATION	0	12/15/23	VAR	
	<u>CONTRACTOR PMI REQUIREMENTS</u> PMI ACCESSED AT: HTTPS://PMI.VZWSMART.COM SMART TOOL VENDOR PROJECT NUMBER: 10213280 VZW LOCATION CODE (PSLC): 5000384285 ***PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT MOUNT MODIFICATION REQUIRED: YES VZW APPROVED SMART KIT VENDORS: REFER TO MOUNT MODIFICATION DRAWINGS PAGES FOR VZW SMART KIT APPROVED VENDORS	C-401	ANTENNA INFORMATION & SCHEDULE	0	12/15/23	VAR	
		C-501	CONSTRUCTION DETAILS	0	12/15/23	VAR	
<u>PROJECT LOCATION DIRECTIONS</u> ROUTE 322 TO WOLCOTT ROAD NEAR BEACH ROAD			E-501	GROUNDING DETAILS	0	12/15/23	VAR
			R-601	SUPPLEMENTAL			
			R-602	SUPPLEMENTAL			
			R-603	SUPPLEMENTAL			
			R-604	SUPPLEMENTAL			

verizon
 ATC JOB NO: 14529533_G0
 CUSTOMER ID: WOLCOTT N CT
 CUSTOMER #: 5000384285

TITLE SHEET

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

GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, VERIZON "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 VERIZON 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 ANSII/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON 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 VERIZON 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 VERIZON 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 VERIZON 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 VERIZON 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 VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON 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 VERIZON 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. WHEN THE PROJECT SCOPE REQUIRES THE USE OF THE SAFETY CLIMB, THE GENERAL CONTRACTOR SHALL ENSURE THE SAFETY CLIMB IS FREE OF OBSTRUCTIONS, NOT RUBBING ON OR TRAPPED BY ANY INSTALLED CUSTOMER EQUIPMENT, IS VISUALLY TAUT, MEETS MANUFACTURER INSTALLATION SPECIFICATIONS, AND IS FIRMLY SECURED AT ALL CABLE GUIDE LOCATIONS UPON PROJECT COMPLETION.
29. COMPLETION OF PROJECT SHALL NOT OBSTRUCT, TRAP, LOOSEN, OR OTHERWISE CAUSE FAILURE TO MEET MANUFACTURER INSTALLATION REQUIREMENTS FOR THE SAFETY CLIMB.
30. 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 CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
31. 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 NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT 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.
32. 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 VERIZON REP. ANY WORK FOUND BY THE VERIZON REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
33. 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.
34. VERIZON FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, 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.
35. VERIZON 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 VERIZON OR THEIR ARCHITECT/ENGINEER.

- B. ALL COAXIAL/HYBRID CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL/HYBRID CABLE (NOT WITHIN BENDS)

SPECIAL CONSTRUCTION

ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
 - A. ANTENNA AND COAXIAL/HYBRID CABLES ARE FURNISHED BY VERIZON 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.
 - B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND VERIZON SPECIFICATIONS.
 - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
 - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
 - E. INSTALL COAXIAL/HYBRID 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/HYBRID CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
2. ANTENNA AND COAXIAL/HYBRID CABLE GROUNDING:
 - A. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.

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.



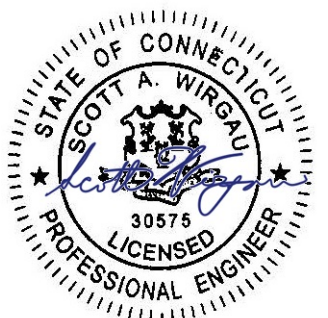
AMERICAN TOWER®
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 1 FENTON MAIN
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WOLCOTT RD CT
 VERIZON SITE NAME:
WOLCOTT N CT
 SITE ADDRESS:
 1192 WOLCOTT RD
 WOLCOTT, CT 06716

SEAL:



Digitally Signed: 2023-12-15



ATC JOB NO:	14529533_G0
CUSTOMER ID:	WOLCOTT N CT
CUSTOMER #:	5000384285

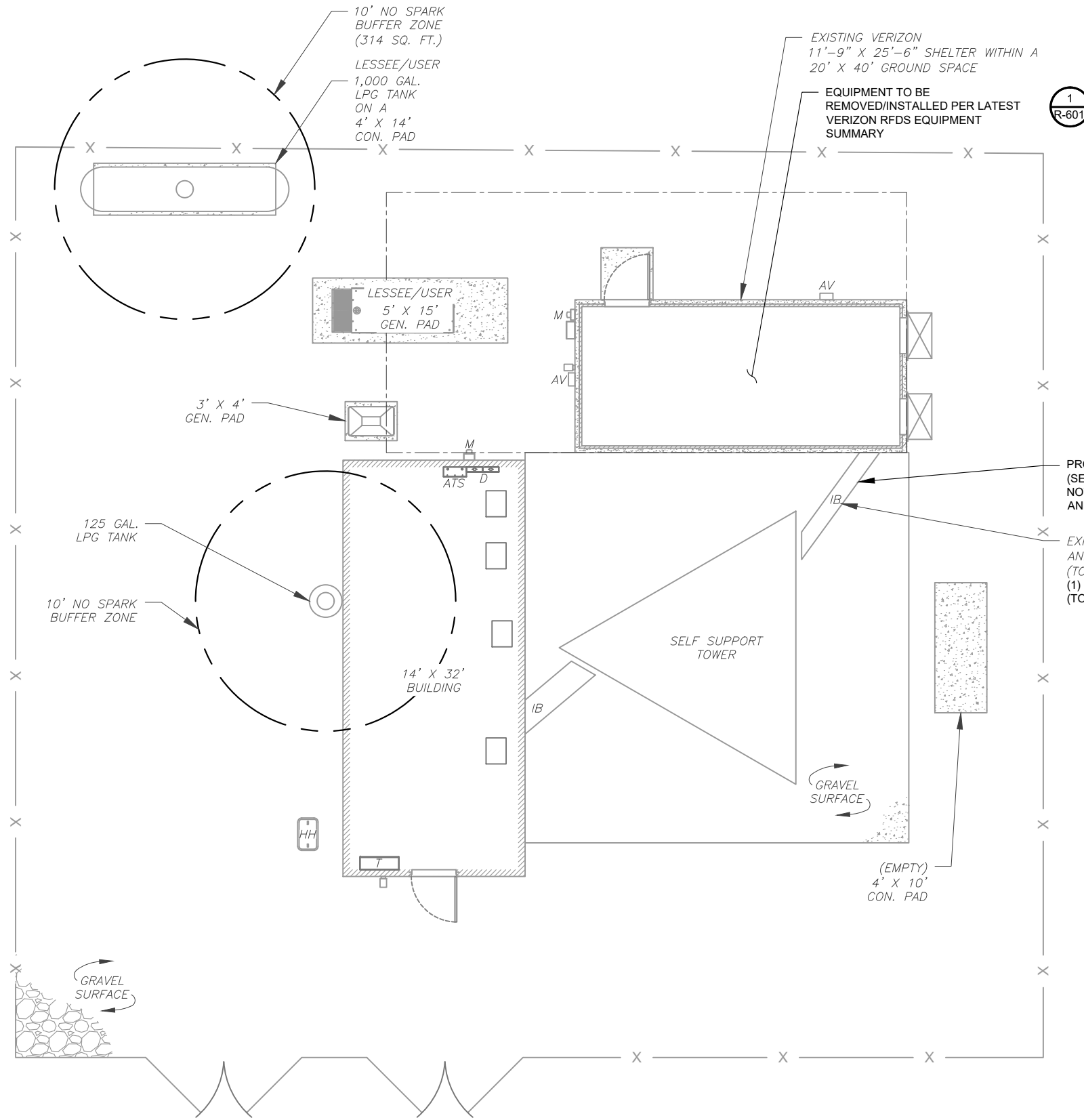
GENERAL NOTES

SHEET NUMBER:
G-002
 REVISION:
0

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SITE PLAN NOTES:

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



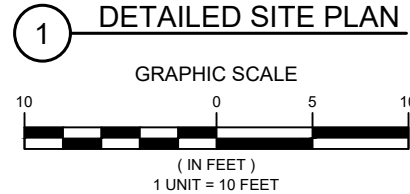
1
R-601

LEGEND

- ⊗ GROUNDING TEST WELL
- ATS AUTOMATIC TRANSFER SWITCH
- B BOLLARD
- CSC CELL SITE CABINET
- D DISCONNECT
- E ELECTRICAL
- F FIBER
- GEN GENERATOR
- G GENERATOR RECEPTACLE
- 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
- CHAINLINK FENCE

PROPOSED CABLE NOTES:

- ESTIMATED LENGTH OF PROPOSED CABLE IS **179'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES). CDS DEFER TO GREATEST CABLE LENGTH.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).



AMERICAN TOWER®
A.T. ENGINEERING SERVICES LLC
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 SUITE 300
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 PEC.0001553

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274848

ATC SITE NAME:
WOLCOTT RD CT

VERIZON SITE NAME:
WOLCOTT N CT

SITE ADDRESS:
 1192 WOLCOTT RD
 WOLCOTT, CT 06716



Digitally Signed: 2023-12-15

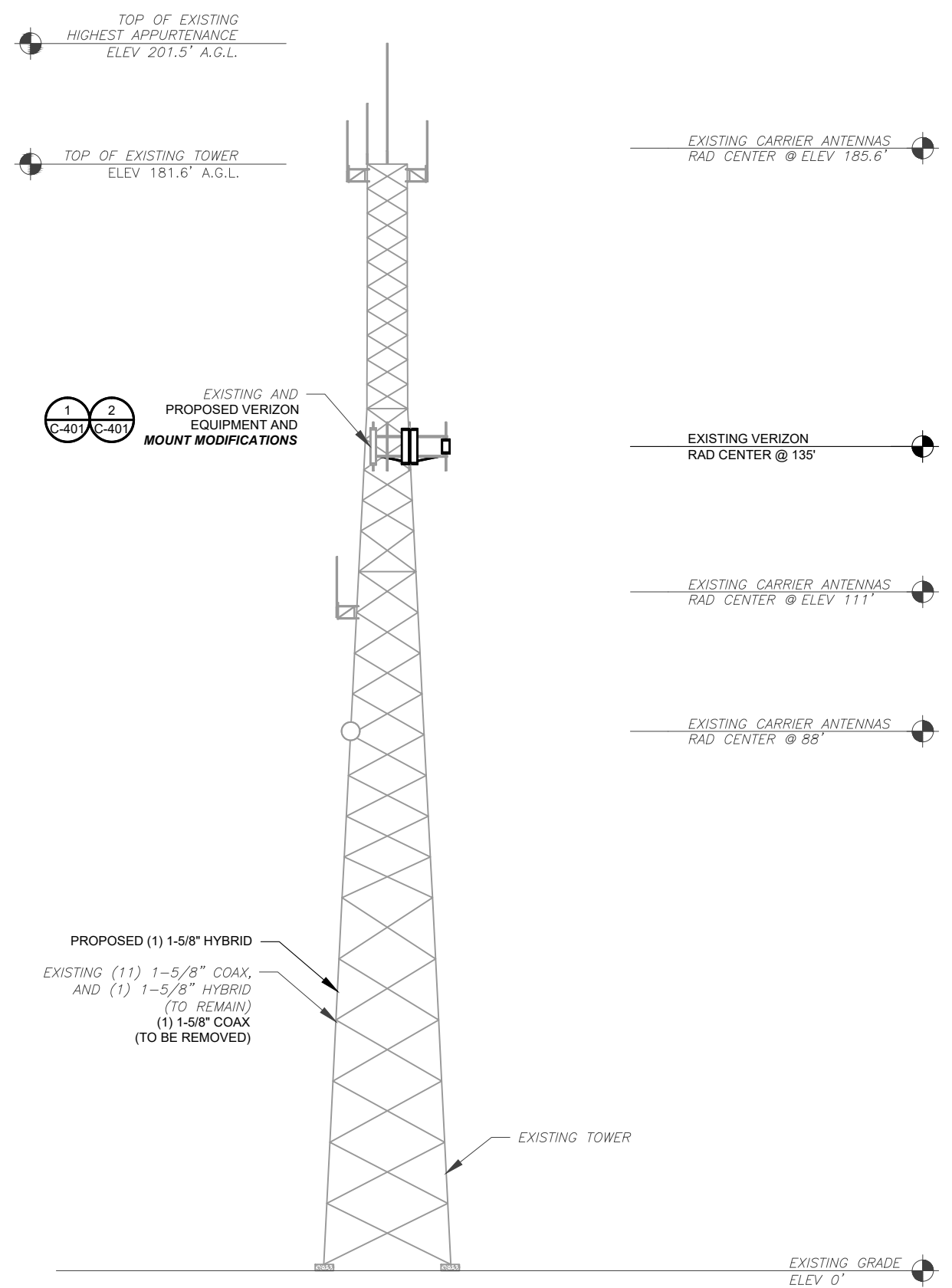
ATC JOB NO: 14529533_GO
 CUSTOMER ID: WOLCOTT N CT
 CUSTOMER #: 5000384285

DETAILED SITE PLAN

SHEET NUMBER: C-101	REVISION: 0
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PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN, DATED 11/15/23, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION DETAILED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



PROPOSED (1) 1-5/8" HYBRID
 EXISTING (1) 1-5/8" COAX,
 AND (1) 1-5/8" HYBRID
 (TO REMAIN)
 (1) 1-5/8" COAX
 (TO BE REMOVED)

1 TOWER ELEVATION
 SCALE: N.T.S.

ALL ELEVATIONS REFLECT ABOVE GROUND LEVEL (A.G.L.)

- TOWER NOTE:**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT 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.
 - WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
 - 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).
 - TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.



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 CARY, NC 27511
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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	VAR	12/15/23

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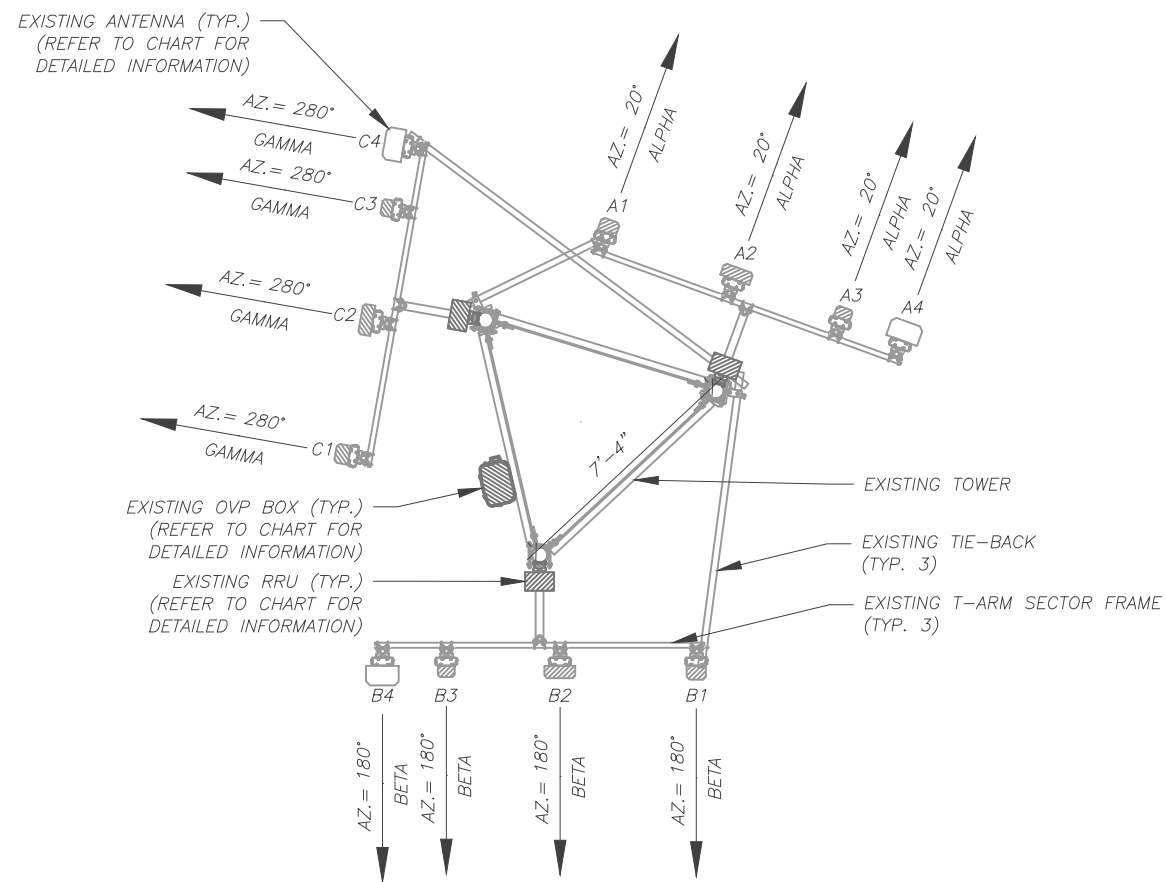


Digitally Signed: 2023-12-15

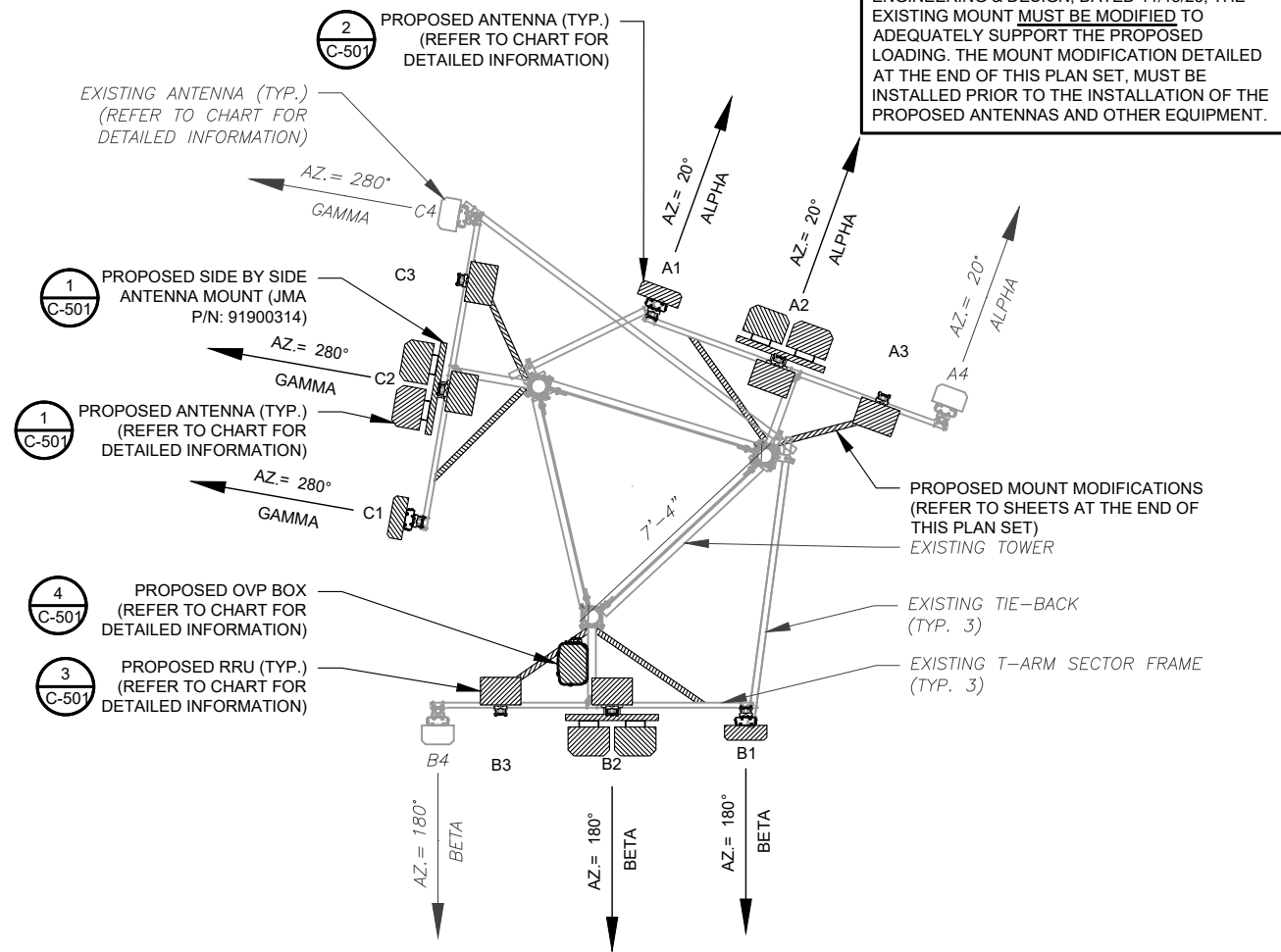
verizon ✓
 ATC JOB NO: 14529533_G0
 CUSTOMER ID: WOLCOTT N CT
 CUSTOMER #: 5000384285

TOWER ELEVATION
 SHEET NUMBER:
C-201
 REVISION:
0

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1 EXISTING ANTENNA PLAN SCALE: N.T.S.



2 FINAL ANTENNA PLAN SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY COLLIER ENGINEERING & DESIGN, DATED 11/15/23, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION DETAILED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

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 SITE ADDRESS:
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 WOLCOTT, CT 06716



Digitally Signed: 2023-12-15



ATC JOB NO: 14529533_G0
 CUSTOMER ID: WOLCOTT N CT
 CUSTOMER #: 5000384285

ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:
C-401
 REVISION:
0

EXISTING ANTENNA SCHEDULE							
LOCATION				ANTENNA SUMMARY			
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	NON ANTENNA SUMMARY
ALPHA	135'	20°	A1	77" X 7" PANEL	-	RMV	-
			A2	BXA-70063/6CF	700 LTE, 850 LTE	RMV	UHID B4 RRH 2x40
			A3	BXA-171063-8BF	AWS LTE	RMV	-
			A4	LNx-8513DS-VTM	-	RMN	-
BETA	135'	180°	B1	77" X 7" PANEL	-	RMV	-
			B2	BXA-70063/6CF	700 LTE, 850 LTE	RMV	UHID B4 RRH 2x40
			B3	BXA-171063-8BF	AWS LTE	RMV	-
			B4	LNx-8513DS-VTM	-	RMN	-
GAMMA	135'	280°	C1	77" X 7" PANEL	-	RMV	-
			C2	BXA-70063/6CF	700 LTE, 850 LTE	RMV	UHID B4 RRH 2x40
			C3	BXA-171063-8BF	AWS LTE	RMV	-
			C4	LNx-6514DS-VTM	-	RMN	-

NOTES
 1. CONFIRM WITH VERIZON REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
 2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

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

CABLE LENGTHS FOR JUMPERS
 JUNCTION BOX TO RRU: 15'
 RRU TO ANTENNA: 10'

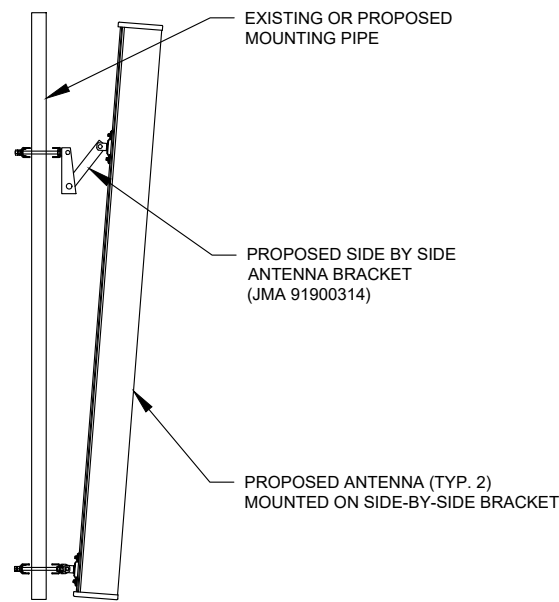
FINAL ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	135'	20°	A1	MT6413-77A	L-SUB6 5G	ADD	-	-
			A2	(2) MX06FRO660-03	700 LTE, 850 LTE, 850 5G, 1900 LTE, AWS LTE	ADD	RF4439D-25A	ADD
			A3	-	-	-	RF4461D-13A	ADD
			A4	LNx-8513DS-VTM	-	RMN	-	-
BETA	135'	180°	B1	MT6413-77A	L-SUB6 5G	ADD	-	-
			B2	(2) MX06FRO660-03	700 LTE, 850 LTE, 850 5G, 1900 LTE, AWS LTE	ADD	RF4439D-25A	ADD
			B3	-	-	-	RF4461D-13A	ADD
			B4	LNx-8513DS-VTM	-	RMN	-	-
GAMMA	135'	280°	C1	MT6413-77A	L-SUB6 5G	ADD	-	-
			C2	(2) MX06FRO660-03	700 LTE, 850 LTE, 850 5G, 1900 LTE, AWS LTE	ADD	RF4439D-25A	ADD
			C3	-	-	-	RF4461D-13A	ADD
			C4	LNx-6514DS-VTM	-	RMN	-	-

EXISTING FIBER DISTRIBUTION / OVP BOX		EXISTING CABLING SUMMARY	
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS
-	-	(11) 1-5/8" COAX, AND (1) 1-5/8" HYBRID	RMN
(1) RRFDC-3315-PF-4	RMV	(1) 1-5/8" COAX	RMV

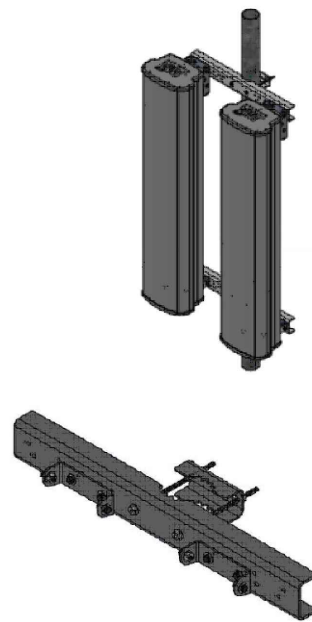
3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY	
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS
-	-	(11) 1-5/8" COAX, AND (1) 1-5/8" HYBRID	RMN
(1) RCMD-6627-PF-48	ADD	(1) 1-5/8" HYBRID	ADD

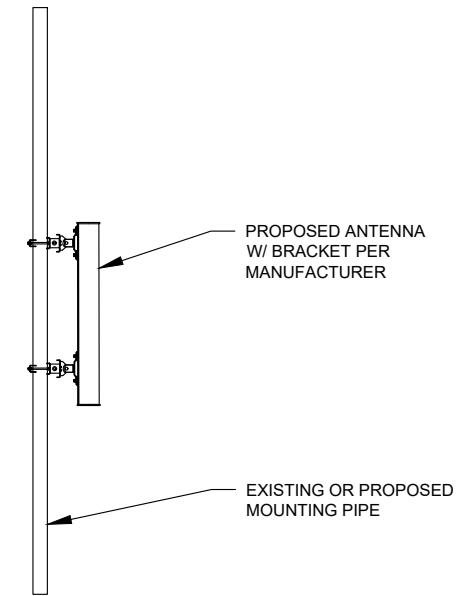
EXISTING/PROPOSED MOUNTS AND/OR MOUNT MODIFICATIONS NOT SHOWN FOR CLARITY. REFER TO ANTENNA PLANS, MOUNT ANALYSES AND/OR MOUNT MODIFICATION DOCUMENTS FOR ADDITIONAL DETAIL.



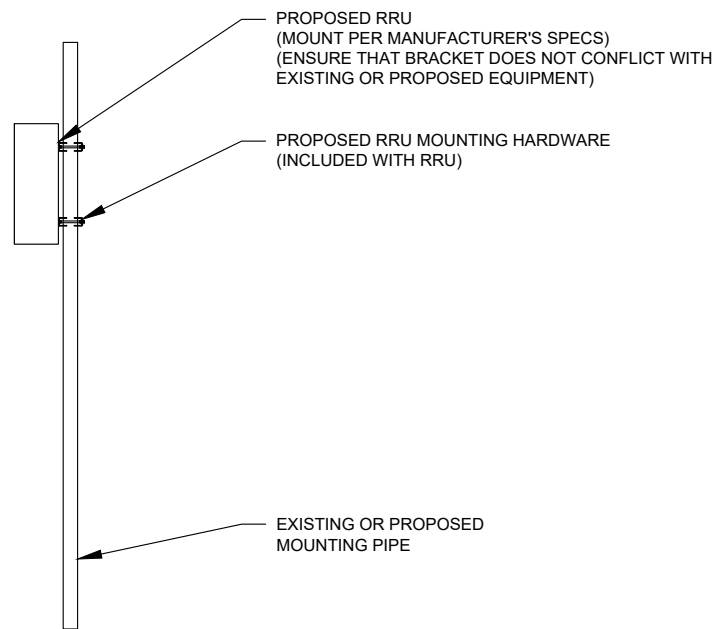
PROFILE VIEW



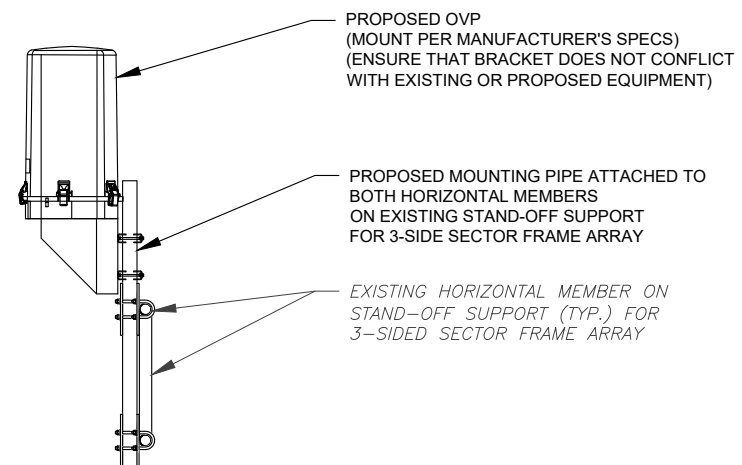
1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



2 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



3 PROPOSED RRU MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



4 PROPOSED OVP MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



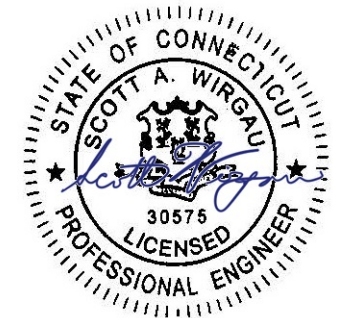
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SUITE 300
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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	VAR	12/15/23

ATC SITE NUMBER:
274848
ATC SITE NAME:
WOLCOTT RD CT
VERIZON SITE NAME:
WOLCOTT N CT
SITE ADDRESS:
1192 WOLCOTT RD
WOLCOTT, CT 06716

SEAL:



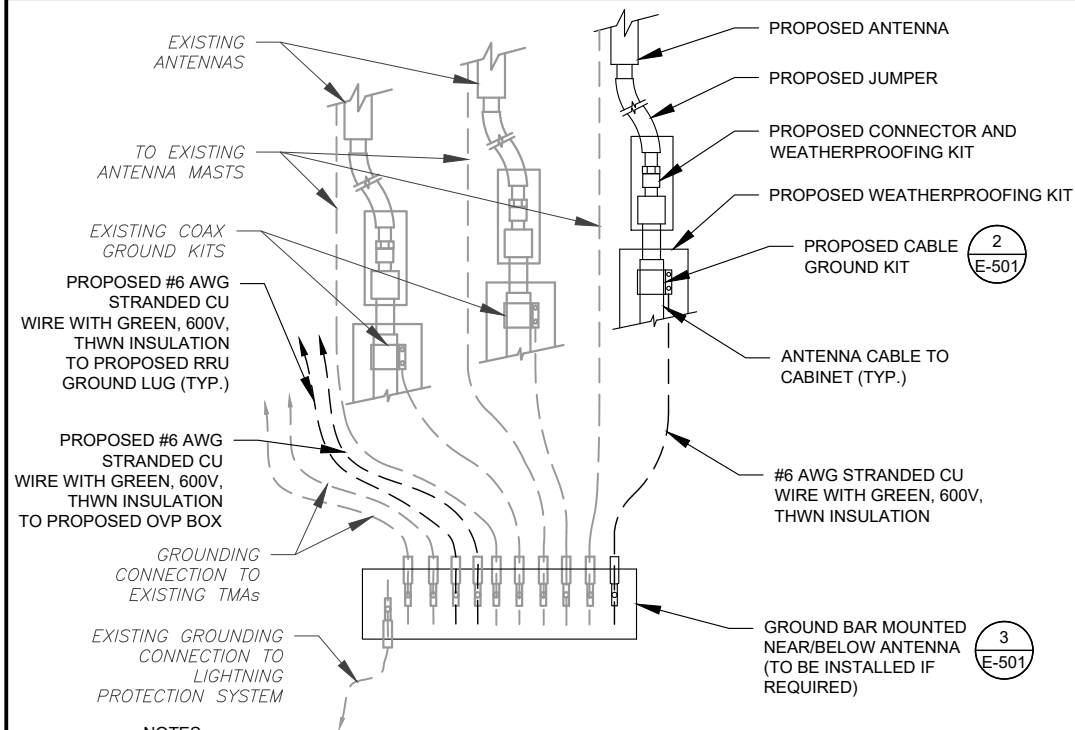
Digitally Signed: 2023-12-15



ATC JOB NO:	14529533_G0
CUSTOMER ID:	WOLCOTT N CT
CUSTOMER #:	5000384285

CONSTRUCTION
DETAILS

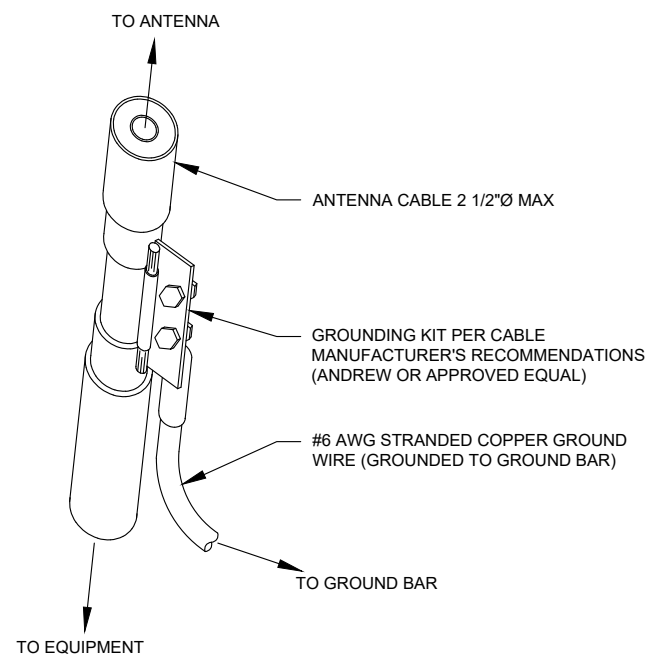
SHEET NUMBER:	REVISION:
C-501	0



NOTES:

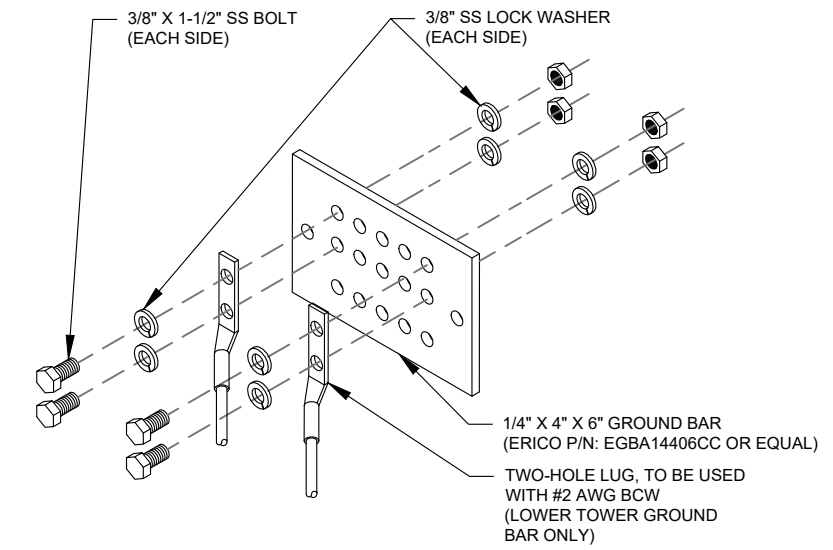
1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH VERIZON GROUNDING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

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



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

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



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

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

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WOLCOTT, CT 06716

SEAL:

Digitally Signed: 2023-12-15

ATC JOB NO: 14529533_G0
 CUSTOMER ID: WOLCOTT N CT
 CUSTOMER #: 5000384285

GROUNDING DETAILS

SHEET NUMBER: E-501	REVISION: 0
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NORTHEAST > North East > New England > New England West > WOLCOTT N CT
 RF Submit by: Summers, Melissa - melissa.summers@verizonwireless.com - 8/1/2023, 12:29:03 PM
 EE Submit by: Diiorio, Gerardo - gerardo.diiorio@verizonwireless.com - 5/4/2023, 6:40:00 AM

Project Details	
Project ID:	16272066
Project Name:	5G L-Sub6 - Carrier Add
Project Alt Name:	WOLCOTT N CT - MKT 64 - MODIFICATION
Project Type:	Modification
Modification Type:	RF
Designed Sector Carrier 4G:	15
Designed Sector Carrier 5G:	3
Additional Sector Carrier 4G:	N/A
Additional Sector Carrier 5G:	N/A
FP Solution Type & Tech Type:	MODIFICATION;4G_PCS,4G_Radio Swap,5G_850,5G_L-Sub6,5G_Radio Swap
Carrier Aggregation:	false
MPT Id:	
eCIP-O:	false
Suffix:	REV5

Location Information	
Site ID:	325179
E-NodeB ID:	0649404,064343
MDG Location ID:	5000384285
PSLC:	467187
Switch Name:	Wallingford 1
Tower Owner:	
Tower Type:	Self Support (Lattice Tower)
Site Type:	MACRO
Site Sub Type:	TRADITIONAL
Street Address:	1192 Wolcott Road
City:	Wolcott
State:	CT
Zip Code:	06716
County:	New Haven
Latitude:	41.61803611 / 41° 37' 4.93" N
Longitude:	-72.97124444 / 72° 58' 16.48" W

RFDS Project Scope: RFDS SOW: 850A 5G NR/ PCS/ L-Sub6 carrier add, Samsung dual band RRH swap, antenna change

- REV1 (5/24/21): Adds the 850 5G NR carrier (no material changes)
- REV2 (10/26/21): Upgrades existing Hybriflex
- REV3 (5/5/22): Updates L56 Regulatory to get ISAs (no material changes)
- REV4 (4/20/23): Upgrades to O-RAN RRH
- REV5 (8/1/23): Upgrades LB/ C-Band RRH

- Retain 700/ AWS carriers and add 850A 5G NR/ PCS/ L-Sub6 carrier
- Remove (9) existing antennas in positions 2-4. Retain (3) spare antennas in position 1
- Add (6) new JMA MX06FRO660-03 antennas on new 91900314-02 side-by-side mounts to position 2 or 3
- Add (3) L-Sub6 All-in-One antenna/ RRHs to position 4
- Replace (3) existing Nokia RRHs from tower and (3) from shelter with (3) new Samsung B5/B13 RRH- RF4461d-13A and (3) new Samsung B2/B66A RRH- RF4439d-25A to tower
- Replace existing OVP-6 with an OVP-12 on tower
- Replace spare 1 5/8" coax with with (1) new 6x12 Hybriflex LI
- Plumb 700/ 850/ PCS/ AWS/ L-Sub6 according to the plumbing diagram
- Use RF ports on dual band RRHs to communicate with RETs via Smart bias-T built into the antenna
- Cap and weatherproof unused ports/connectors

Antenna Summary

Added														
700	850	1900	AWS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
LTE	LTE 5G	LTE	LTE		JMA	MX06FRO660-03	135	138	180(B) 20(A) 280(C)		true	PHYSICAL	6	000000001900056303
				5G	Samsung	MT6413-77A	135	136.2	180(B) 20(A) 280(C)		false	PHYSICAL	3	
Removed														
700	850	1900	AWS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
					Unknown	Unknown	135	138	20(O1) 180(O2) 280(O3)		false	SPARE	3	
LTE	LTE				AMPHENOL	BXA-70063-6CF	135	138	180(B) 20(A) 280(C)		false	PHYSICAL	3	
				LTE	COMMSCOPE	HBX-6517DS-VTM	135	138.1	20(A) 180(B) 280(C)		false	PHYSICAL	3	
Retained														
700	850	1900	AWS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
					ANDREW	LNX-8513DS-VTM	135	138	20(O1) 180(O2)		false	SPARE	2	
					COMMSCOPE	LNX-6514DS-VTM	135	138	280(O3)		false	SPARE	1	

Added: 9 Removed: 9 Retained: 3

Equipment Summary

Added													
Equipment Type	Location	700	850	1900	AWS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
RRU	Tower			LTE	LTE		Samsung	B2/B66A RRH ORAN (RF4439d-25A)			PHYSICAL	3	
RRU	Tower					5G	Samsung	MT6413-77A			PHYSICAL	3	
RRU	Tower	LTE	LTE 5G				Samsung	RF4461d-13A			PHYSICAL	3	
Other	Shelter						SAMSUNG TELECOMMUNICAT AMERICA	1900068488			PHYSICAL	6	1900068488
Upconverter	Shelter						COMMSCOPE	RS485-CARD			PHYSICAL	1	000000001900079
Upconverter	Shelter						COMMSCOPE	PS-1600-73-VZ			PHYSICAL	6	000000001900400
Upconverter	Shelter						COMMSCOPE	PS-BYPASS-1-VZ			PHYSICAL	6	000000001900426
Upconverter	Shelter						COMMSCOPE	PS-R-1600-VZ			PHYSICAL	1	000000001900400
Upconverter	Shelter						COMMSCOPE	PULSAR-EDGE-CNTRL			PHYSICAL	1	000000001900079
Kit	Shelter						Nokia	3HE00027CA			PHYSICAL	1	000000001900184
Kit	Shelter						Nokia	3HE04624AA			PHYSICAL	4	000000001900155
Kit	Shelter						Nokia	3HE11904AA			PHYSICAL	2	000000001900182
Kit	Shelter						HEWLETT PAC-003	EB047172			PHYSICAL	1	000000001900425
Kit	Shelter						HEWLETT PAC-003	EB04720			PHYSICAL	1	000000001900425
Kit	Shelter						HEWLETT PAC-003	EB047200			PHYSICAL	1	000000001900425
Kit	Shelter						Samsung	NW-FSCPCBH15VZ			PHYSICAL	1	000000001900006
Hybrid Cable	Tower	LTE	LTE 5G	LTE	LTE	5G	HUBER & SUHNER INC	SD-06x6GA-12SM-210	210FT	6x12	PHYSICAL	1	1900004907
Hybrid Fiber	Tower						SAMSUNG TELECOMMUNICAT AMERICA	NW-FMHYBCH63HS			PHYSICAL	3	1900424149
Hybrid Fiber	Tower						SAMSUNG TELECOMMUNICAT AMERICA	NW-LMHYBCH81HS			PHYSICAL	6	1900424162
Kit	Shelter						Samsung	NW-FSBRACH02VZ			PHYSICAL	1	
Kit	Shelter						Samsung	NW-FSGPCH30VZ			PHYSICAL	1	000000001900008
Kit	Shelter						Samsung	SFG-AFE000DAVZ			PHYSICAL	12	000000001900083
Kit	Shelter						Samsung	SFG-AFE000DBVZ			PHYSICAL	2	000000001900083
Kit	Shelter						Samsung	SFG-AFS00Z01VZ			PHYSICAL	1	000000001900081
Kit	Shelter						Samsung	SLS-BB150EGEX			PHYSICAL	1	000000001900005
Mount	Tower						JMA WIRELESS	91900314-02			PHYSICAL	3	000000001900058
OVP Box	Shelter						RAYCAP INC	RVZDC-4520-RM-48			PHYSICAL	1	1900410978
OVP Box	Tower	LTE	LTE 5G	LTE	LTE	5G	RAYCAP INC	RVZDC-6627-PF-48			PHYSICAL	1	1900410979
OVP Box	Shelter						RAYCAP INC	RVZDRM-4520-MOD-12			PHYSICAL	2	1900083145
Other	Shelter						SAMSUNG TELECOMMUNICAT AMERICA	1900005414			PHYSICAL	6	1900005414
Removed													
Equipment Type	Location	700	850	1900	AWS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
RRU	Shelter	LTE	LTE				Samsung	B5/B13 RRH-BR04C (RFV01U-D2A)			PHYSICAL	3	
RRU	Tower				LTE		Nokia	UHID B4 RRH 2x40			PHYSICAL	3	
Coaxial Cables	Tower						N/A	1-5/8" Coax		1 5/8"	SPARE	1	
OVP Box	Tower	LTE			LTE		Raycap	RRFDC-3315-PF-48			PHYSICAL	1	000000001900006
Retained													
Equipment Type	Location	700	850	1900	AWS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
Coaxial Cables	Tower						N/A	1-5/8" Coax		1 5/8"	SPARE	11	
Hybrid Cable	Tower	LTE	LTE 5G	LTE	LTE	5G	N/A	6x12 Hybriflex		1 1/4"	PHYSICAL	1	



Colliers Engineering & Design,
 Architecture, Landscape Architecture,
 Surveying, CT P.C
 1055 Washington Boulevard
 Stamford, CT 06901
 203.324.0800
 peter.albano@collierseng.com

Mount Post-Modification Analysis Report
 (3) 13.00-Ft T-Frames

November 15, 2023
 Site ID: 5000384285-VZW / WOLCOTT N CT
 Page | 5

Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10213280
 Colliers Engineering & Design Project #: 21781139A (Rev. 1)

November 15, 2023

Site Information

Site ID: 5000384285-VZW / WOLCOTT N
 Site Name: WOLCOTT N
 Carrier Name: Verizon Wireless
 Address: 1192 Wolcott Rd
 Wolcott, Connecticut 06716
 New Haven County
 Latitude: 41.61803611°
 Longitude: -72.97124444°

Structure Information

Tower Type: 180-Ft Self Support
 Mount Type: 13.00-Ft T-Frame Mount

FUZE ID # 16272066

Analysis Results

T-Frame: 87.0% Pass w/ Modifications*

*Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.

*****Contractor PMI Requirements:**

Included at the end of this MA report
 Available & Submitted via portal at <https://pmi.vzsmart.com>
 For additional questions and support, please reach out to:
 pmisupport@colliersengineering.com

Report Prepared By: Conner Hoge



Requirements:

The existing mounts will be **SUFFICIENT** for the final loading configuration (attachment 2) **after the modifications detailed in attachment 3 are successfully completed.**

- Contractor shall install proposed OVP directly to the existing mast pipe in Alpha sector.
- Contractor shall install (1) pipe mount reinforcement kit (Part #: Site Pro 1 - R5-REINF or EOR approved equal) to the existing mount-to-tower connection in each sector.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

1. Contractor Required PMI Report Deliverables
2. Antenna Placement Diagrams
3. Mount Modification Drawings
4. Mount Photos
5. Mount Mapping Report (for reference only)
6. Analysis Calculations

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



MOUNT MODIFICATION DRAWINGS
EXISTING 13.00' T-FRAME

TOWER OWNER: ATC
TOWER OWNER SITE NUMBER: 274848

CARRIER SITE NAME: WOLCOTT N CT
CARRIER SITE NUMBER: 467187
FUZE ID: 16272066

1192 WOLCOTT RD.
WOLCOTT, CT 06716
NEW HAVEN COUNTY

LATITUDE: 41.61803611° N
LONGITUDE: 72.97124444° W



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CLIENT INFORMATION

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CLIENT ADDRESS: 1192 WOLCOTT RD, WOLCOTT, CT 06716, NEW HAVEN COUNTY

PROJECT INFORMATION

PROJECT NAME: WOLCOTT N CT
PROJECT NUMBER: 467187
PROJECT ADDRESS: 1192 WOLCOTT RD, WOLCOTT, CT 06716, NEW HAVEN COUNTY

CONTRACTOR INFORMATION

CONTRACTOR NAME: COLLIERS ENGINEERING & DESIGN
CONTRACTOR ADDRESS: 1192 WOLCOTT RD, WOLCOTT, CT 06716, NEW HAVEN COUNTY

CONTRACTOR PM REQUIREMENTS

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BILL OF MATERIALS						
SECTION 1 - VZWSMART KITS						
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS)	WEIGHT (LBS)
3	VZWSMART	VZWSMART-9K3	VBAKING KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRY AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET 503.	122	366
SECTION 2 - OTHER REQUIRED PARTS						
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS)	WEIGHT (LBS)
3	SITE PRO 1	AS-ANIP	AS UNIVERSAL PIPE HOLE REINFORCIT KIT	OR EOR APPROVED EQUAL, CONTACT MASER CONSULTING FOR APPROVAL OF SUBSTITUTION.	34	102
					TOTAL:	468

VZWSMART KITS - APPROVED VENDORS	
COMMSCOPE	
CONTACT NAME:	SALVADOR ANGLIANO
PHONE:	(817) 394-7492
EMAIL:	SALVADOR.ANGLIANO@COMMSCOPE.COM
WEBSITE:	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT NAME:	KENT KANEY
PHONE:	(781) 355-7365 (O) (978) 963-7888 (H)
EMAIL:	KENT@METROSITE.COM
WEBSITE:	WWW.METROSITE.COM
PERFECTVISION	
CONTACT NAME:	WIRELESS SALES
PHONE:	(846) 887-4272
EMAIL:	WWW.PERFECTVISION.COM
WEBSITE:	WWW.WIRELESS@PERFECTVISION.COM
SABRE INDUSTRIES, INC.	
CONTACT NAME:	JASGE WELCH
PHONE:	(846) 438-4927
EMAIL:	AKWELCH@SABREINDUSTRIES.COM
WEBSITE:	WWW.SABREINDUSTRIES.COM
SITE PRO 1	
CONTACT NAME:	PALLA SOBELL
PHONE:	(978) 248-8868
EMAIL:	PALLA.SOBELL@SABREINDUSTRIES.COM
WEBSITE:	WWW.SABREINDUSTRIES.COM

- NOTES:**
1. THE MANUFACTURERS LISTED ARE THE APPROVED VENDORS FOR THE VZW MOUNT KITS. EACH MANUFACTURER WILL BE AWARE OF WHICH KITS HAVE BEEN THROUGH THE VZW APPROVAL PROCESS AND THEY ARE IN TURN APPROVED TO SELL. PLEASE NOTE THAT THE MATERIAL UTILIZED ON THE MOUNT MODIFICATIONS WILL BE REVIEWED AS A PART OF THE DESKTOP PM COMPLETED BY THE SMART TOOL VENDOR. IT WILL BE REQUIRED THAT THE VZW KITS SPECIFIED ARE UTILIZED IN THE MODIFICATIONS.
 2. ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.



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THIS DRAWING AND ALL THE INFORMATION CONTAINED HEREIN IS AUTHORIZED FOR USE ONLY BY THE PARTY FOR WHOM THE WORK WAS CONTRACTED OR TO WHOM IT IS CERTIFIED. THE DRAWING HAS NOT BEEN COPIED, REPRODUCED, DISTRIBUTED OR REPRODUCED UPON ANY OTHER PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF COLLIERS ENGINEERING & DESIGN.

- PROJECT NOTES**
1. SEE MODIFICATION NOTES
 2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC GOVERNING AUTHORITIES.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND APPROVALS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
 4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IN WRITING OF ANY CONFLICT, ERROR OR OMISSION PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES AT THE CONTRACTOR'S RISK TO THE DISTRIBUTION OF THE OWNER.
 6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THE PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 7. THE CONTRACTOR SHALL VERIFY THE PROJECT SITE PRIOR TO SUBMITTING THE BIDS TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
 8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO COMMENCING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
 9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUT DOWN PRIOR TO REPAIRING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGEROUS, PERSONAL OR EQUIPMENT DAMAGE. PERSONNEL ARE REQUIRED TO WEAR APPROPRIATE PROTECTIVE EQUIPMENT TO AVOID ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
 10. NO NOISE, SMOKE, DUST OR ODOOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
 11. THE FACILITY IS UNARMED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).

- GENERAL NOTES**
1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD (TIA-222-B), MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
 2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES AND CHANGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REMOVED AT THE CONTRACTOR'S RISK TO THE SATISFACTION OF THE OWNER.
 3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE PROVISIONS, NOTIFY THE ENGINEER IMMEDIATELY.
 4. IT IS ASSUMED THAT ALL EXISTING STRUCTURAL WORKS WORKED ON WITH TOWER CONSTRUCTION EXPERIENCE.
 5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIPPING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ERECTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ALL TIA-222-B LATEST EDITIONS INCLUDING THE REQUIRED WORKING SAFETY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANTI-TA-222 LATEST EDITION INCLUDING THE REQUIRED WORKING SAFETY STANDARDS ENGINEER FOR EACH CASE OF CONSTRUCTION.
 6. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING, HANDLING, AND SAFETYING ALL SAFETY EQUIPMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ALL APPLICABLE CODES.
 7. WORK SHALL BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 15 MPH) AND SHALL BE COMPLETED IN THE SHORTEST PERIOD OF TIME.

- DESIGN CRITERIA**
- WIND LOADS**
 BASIC WIND SPEED (3 SECOND GUST), V = 120 MPH
 EXPOSURE CATEGORY B
 TOPOGRAPHIC CATEGORY 1
 MEAN SEA LEVEL ELEVATION (MSL) = 1045.77'
- ICE LOADS**
 ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
 ICE THICKNESS = 1.00 IN
- SEISMIC LOADS**
 SEISMIC DESIGN CATEGORY B
 SHORT TERN HAZARD GROUND MOTION S₁ = 0.151
 LONG TERN HAZARD GROUND MOTION S_{0.1} = 0.154

- PROJECT INFORMATION**
- APPLICANT/OWNER:** WOLCOTT N CT
COMPANY: WOLCOTT N CT
CLIENT REPRESENTATIVE: [REDACTED]
CLIENT ADDRESS: 1192 WOLCOTT RD, WOLCOTT, CT 06716, NEW HAVEN COUNTY
PROJECT MANAGER: COLLIERS ENGINEERING & DESIGN
PROJECT ADDRESS: 1192 WOLCOTT RD, WOLCOTT, CT 06716, NEW HAVEN COUNTY

- SHEET INDEX**
- | SHEET | DESCRIPTION |
|-------|--------------------------|
| 1 | TITLE SHEET |
| 2 | BILL OF MATERIALS |
| 3 | GENERAL NOTES |
| 4 | CLIPPING FACILITY DETAIL |
| 5 | MODIFICATION DETAILS |
| 6 | MOUNT PHOTOS |
| 7 | SPECIFICATION SHEETS |

- CONTRACTOR PM REQUIREMENTS**
- CONTRACTOR PM NAME:** [REDACTED]
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- STRUCTURAL STEEL**
1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REGULATIONS (EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS):
 - A. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (LATEST EDITION).
 - B. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A572 OR A575 STEEL.
 - C. AISC CODE OF STANDARD PRACTICE.
 2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SPECIFIED:
 - CHANNELS, ANGLES, PLATES, ETC.: ASTM A572 (GR 50)
 - STEEL PIPE: ASTM A575 (GR 50)
 - BOILERS: ASTM A572
 - LOCK WASHERS: LOCKING STRUCTURAL GRADE
 3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION TO THE ENGINEER FOR VERIFYING THE SUBSTITUTION IS EQUAL OR BETTER. ORIGINAL DESIGN CENTER, DIMENSIONS FROM THE ORIGINAL DESIGN, INCLUDING WEIGHTS, BENDING AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/BENEFITS ASSOCIATED WITH THE SUBSTITUTION, INCLUDING DESIGN COSTS AND COSTS TO SUB-CONTRACTORS SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE A SHOP DRAWING AND APPROVAL SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
 4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - A. SUBMIT SHOP DRAWINGS TO: PETER.MASER@COLLIERSENGINEERING.COM
 - B. PROVIDE MASER CONSULTING PROJECT AND MASER CONSULTING PROJECT NUMBER INFORMATION IN THE BODY OF THE EMAIL.
 5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.

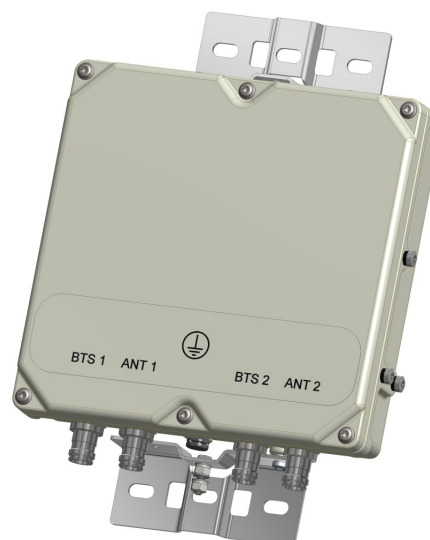
KA-6030

TWIN BANDSTOP 900MHZ INTERFERENCE MITIGATION FILTER

The KA-6030 is ideal for co-located 700, 850 and 900 networks. Utilising a 2.6MHz guardband the KA-6030 provides rejection of the 900 UL band while passing 700/850 UL and DL bands. Capable of being used in an outdoor environment the KA-6030 contains two identical bandstop filters, suitable for 2x2 MIMO configuration, offering excellent insertion loss, group delay and rejection.

FEATURES

- Passes full 700 and 850 bands
- Low insertion loss
- Rejection of 900MHz uplink
- DC/AISG pass
- Twin unit
- Dual twin mounting available



TECHNICAL SPECIFICATIONS

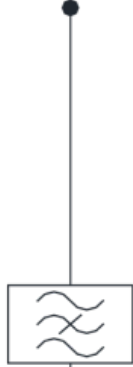
BAND NAME	700 PATH / 850 UPLINK PATH	850 DOWNLINK PATH
Passband	698 - 849MHz	869 - 891.5MHz
Insertion loss	0.1dB typical / 0.3dB maximum	0.5dB typical, 1.45dB maximum
Return loss	24dB typical, 18dB minimum	
Maximum input power (Per Port)	100W average	200W average and 66W per 5MHz
Rejection	53dB minimum @ 894.1 - 896.5MHz	
ELECTRICAL		
Impedance	50Ohms	
Intermodulation products	-160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm	
DC / AISG		
Passband	0 - 13MHz	
Insertion loss	0.3dB maximum	
Return loss	15dB minimum	
Input voltage range	± 33V	
DC current rating	2A continuous, 4A peak	
Compliance	3GPP TS 25.461	
ENVIRONMENTAL		
For further details of environmental compliance, please contact Kaelus.		
Temperature range	-20°C to +60°C -4°F to +140°F	
Ingress protection	IP67	
Altitude	2600m 8530ft	
Lightning protection	RF port: ±5kA maximum (8/20us), IEC 61000-4-5 – Unit must be terminated with some lightning protection circuits.	
MTBF	>1,000,000 hours	
Compliance	ETSI EN 300 019 class 4.1H, RoHS, NEBS GR-487-CORE	
MECHANICAL		
Dimensions H x D x W	269 x 277 x 80mm 10.60 x 10.90 x 3.15in (Excluding brackets and connectors)	
Weight	8.0 kg 17.6 lbs (no bracket)	
Finish	Powder coated, light grey (RAL7035)	
Connectors	RF: 4.3-10 (F) x 4	
Mounting	Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter poles or custom bracket. See ordering information.	

ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
KA-6030-2032	TWIN, 2 in / 2 out	DC/AISG PASS	4.3-10 (F)

ELECTRICAL BLOCK DIAGRAM

ANT1



BTS1

ANT2



BTS2

MECHANICAL BLOCK DIAGRAM

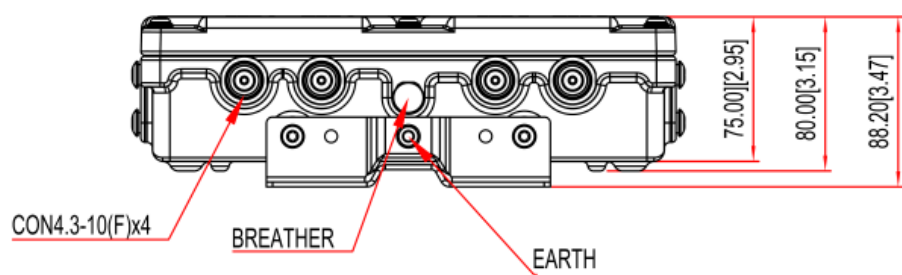
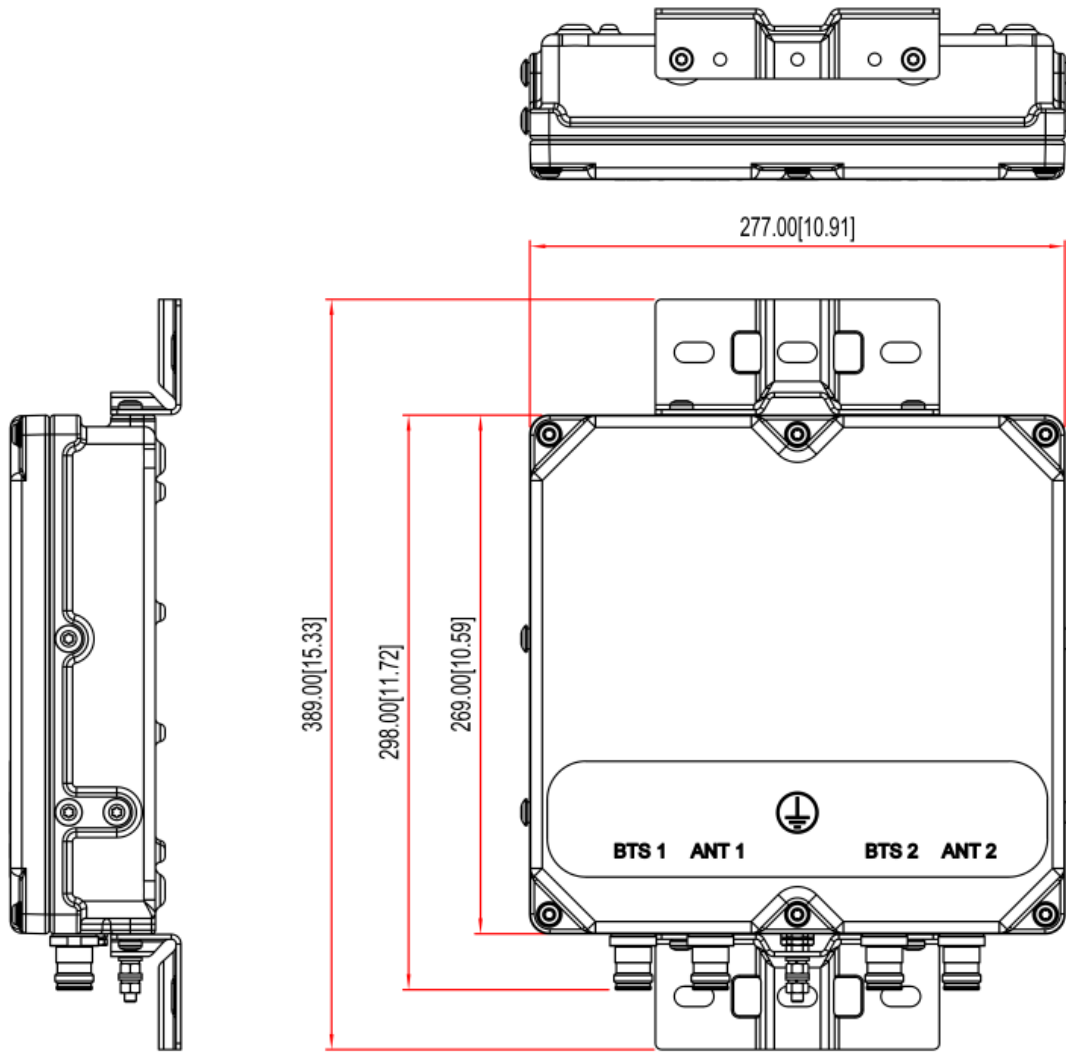


EXHIBIT 2



1192 WOLCOTT RD

Location 1192 WOLCOTT RD

Mblu 119/ 4/ 252/ /

Acct# L0319750

Owner AMERICAN TOWERS INC

Assessment \$217,710

Appraisal \$311,010

PID 3622

Building Count 1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2022	\$58,800	\$252,210	\$311,010

Assessment			
Valuation Year	Improvements	Land	Total
2022	\$41,160	\$176,550	\$217,710

Owner of Record

Owner AMERICAN TOWERS INC
Co-Owner C/O PROPERTY TAX DEPT
Address PO BOX 723597
ATLANTA, GA 31139

Sale Price \$350,000
Certificate
Book & Page 0432/0669
Sale Date 02/24/2011
Instrument 00

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
AMERICAN TOWERS INC	\$350,000		0432/0669	00	02/24/2011
GRAZIANO BROTHERS LLC	\$0		0406/0997	29	12/22/2008
GRAZIANO TOWER LLC	\$0		0238/0407	25	

Building Information

Building 1 : Section 1

Year Built:
Living Area: 0
Replacement Cost: \$0
Building Percent Good:

Replacement Cost

Less Depreciation: \$0

Building Attributes	
Field	Description
Style	Outbuildings
Model	
Grade:	
Stories	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Percent	
Total Bedrooms:	
Full Bthrms:	
Half Baths:	
Extra Fixtures	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Num Kitchens	
Fireplace(s)	
% Attic Fin	
LF Dormer	
Foundation	
Bsmt Gar(s)	
Bsmt %	
SF FBM	
SF Rec Rm	
Fin Bsmt Qual	
Bsmt Access	
Fndtn Cndtn	
Basement	

Building Photo

(<https://images.vgsi.com/photos/WolcottCTPhotos/\00\00\32\55.JPG>)

Building Layout

 Building Layout (ParcelSketch.ashx?pid=3622&bid=3622)

Building Sub-Areas (sq ft)	Legend
No Data for Building Sub-Areas	

Extra Features

Extra Features	<u>Legend</u>
No Data for Extra Features	

Land

Land Use	Land Line Valuation
Use Code 202	Size (Acres) 1.19
Description Comm w/OB	Frontage
Zone GC	Depth
Neighborhood C100	Assessed Value \$176,550
Alt Land Appr No	Appraised Value \$252,210
Category	

Outbuildings

Outbuildings						<u>Legend</u>
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
CELL	Cell	SH	Cell Shed	312.00 S.F.	\$23,400	1
CELL	Cell	SH	Cell Shed	448.00 S.F.	\$33,600	1
FN3	FENCE-6' CHAIN			240.00 L.F.	\$1,800	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2022	\$58,800	\$252,210	\$311,010
2021	\$58,800	\$252,210	\$311,010
2020	\$58,800	\$126,330	\$185,130

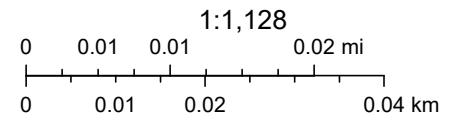
Assessment			
Valuation Year	Improvements	Land	Total
2022	\$41,160	\$176,550	\$217,710
2021	\$41,160	\$176,550	\$217,710
2020	\$41,160	\$88,430	\$129,590

Town of Wolcott



1/17/2024, 5:15:06 PM

- Parcels
- Buildings
- Other Impervious



UConn/CTDEEP, Esri, HERE, Garmin, INCREMENT P, NGA, USGS

EXHIBIT 3





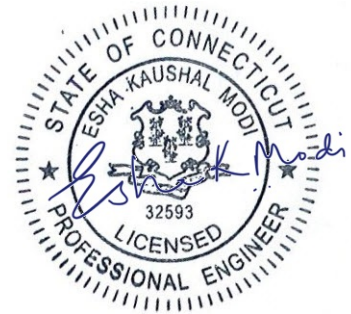
AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 180 ft Self Support Tower
ATC Asset Name : WOLCOTT RD CT
ATC Asset Number : 274848
Engineering Number : 14529533_C3_04
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : WOLCOTT N CT
Carrier Site Number : 5000384285
Site Location : 1192 Wolcott Road
Wolcott, CT 06716-1548
41.618° N, 72.9712° W
County : New Haven
Date : January 5, 2024
Max Usage : 95%
Analysis Result : Pass

Created By:

Zach Stoll
Structural Engineer



COA: PEC.0001553



Table of Contents

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Supporting Documents.....3

Analysis3

Conclusion3

Structure Usages4

Maximum Reactions4

Tower Loading5

Standard Conditions Attached

Calculations..... Attached

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 180 ft Self Support tower to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower:	Rohn Eng. File #23963DB, dated November 21, 1988
Foundation:	Rohn Eng. File #23963DB, dated December 5, 1988
Geotechnical:	Heynen Report #HE-88-718, dated November 22, 1988

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:	117 mph (3-second gust)
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.00" radial ice concurrent
Code(s):	ANSI/TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Feature:	Flat
Spectral Response:	$S_s = 0.19, S_i = 0.05$
Site Class:	D - Stiff Soil - Default

**Wind load and Ice thickness have been reduced by applicable existing structure load modification factors in accordance with TIA-222-H, ANNEX-S*

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 reach out to your American Tower contact. If you do not have an American Tower contact and have an Engineering question, please contact Engineering@americantower.com Please include the American Tower asset name, asset number, and engineering number in the subject line for any questions.

Structure Usages

Structural Component	Usage	Control	Location	Result
Leg	95.0%	Member X	Section 2	Pass
Diagonal	88.0%	Member Z	Section 8	Pass
Horizontal	18.0%	Member Z	Section 6	Pass
Bolt	52.1%	-	Section 3	Pass
Serviceability Usage	7.6%	Deflection	Elevation 180 ft	Pass
Foundation	82.5%	Down	Base	Pass
Foundation	82.0%	Moment	Base	Pass
Foundation	85.5%	Shear	Base	Pass
Foundation	76.2%	Uplift	Base	Pass

Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Uplift (k)	Shear (k)
Self Support Base (Global)	2,298.6	26.1	-	23.9
Self Support Base (Local)	-	136.4	112.9	14.7

**Reactions shown are maximum overall and not limited by Load Case*

Foundation usages were calculated by comparing the maximum reactions from this analysis to the reactions from the original design drawings, factored by 1.35 per ANSI/TIA-222-H, Section 15.6.2

VERIZON WIRELESS Final Loading

Elev (ft)	Qty	Equipment	Lines
135.0	1	Commscope LNX-6514DS-VTM	(2) 1 5/8" (1.63"-41.3mm) Fiber (11) 1 5/8" Coax (2) Waveguide
	1	Commscope VHLPX3-11W-3WH/A	
	2	Commscope LNX-8513DS-VTM (39.2 lb)	
	2	Raycap RVZDC-6627-PF-48	
	3	Mount Reinforcement	
	3	Sector Frame	
	3	Samsung B2/B66A RRH ORAN (RF 4439d-25A)	
	3	Samsung MT6413-77A	
	3	Samsung RF4461d-13A	
	6	JMA Wireless MX06FRO660-03	

Install proposed lines alongside existing VERIZON WIRELESS lines.

Other Existing/Reserved Loading

Elev (ft)	Qty	Equipment	Lines	Carrier
190.9	1	20' Omni	-	AMERICAN MEDICAL RESPONSE
188.6	1	RFS Celwave PD201-7	-	AMERICAN MEDICAL RESPONSE
185.1	1	RFS PD458-2	-	AMERICAN MEDICAL RESPONSE
185.0	1	Andrew DB222-B	(1) 7/8" Coax	AMERICAN MEDICAL RESPONSE
177.0	3	Side Arm	-	CAMPION AMBULANCE SERVICE
163.1	1	20' Omni	-	CAMPION AMBULANCE SERVICE
159.0	1	RFS PD458-2	(1) 7/8" Coax	CAMPION AMBULANCE SERVICE
151.0	3	T-Arm	-	CAMPION AMBULANCE SERVICE
123.4	1	Side Arm	(1) 1 5/8" Coax	HC2 HOLDINGS, INC.
	1	Kathrein Scala 2x3 7500000044		

(If table breaks across pages, please see previous page for data in merged cells)



Standard Conditions

All engineering services performed by A.T. Engineering Services LLC 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 Services LLC

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Services LLC 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 Services LLC, 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 Services LLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

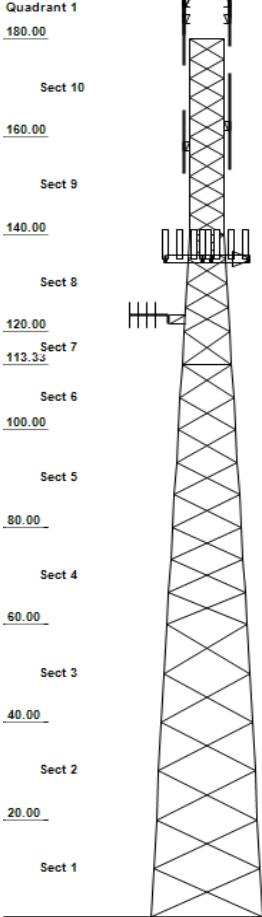
ANALYSIS PARAMETERS

Nominal Wind: 114 mph	Ice Wind: 49 mph w/ 0.85" ice	Service Wind: 60 mph
Risk Category: II	Exposure: B	S_s: 0.191 S_i: 0.054
Topo Category: 1	Topo Factor: Method 1	Topo Feature:
Structure Height: 180 ft	Base Elevation: 0 ft	Shape: Triangle
Base Width: 20.78 ft	Top Width: 6.56 ft	

TOWER SECTION PROPERTIES

Section	Leg Members	Diagonal Members	Horizontal Members
1	PST 50 ksi 5" DIA PIP	SAE 50 ksi 3.5x3.5x0.25	
2-3	PX 50 ksi 4" DIA PIPE	SAE 36 ksi 3X3X0.1875	
4-5	PX 50 ksi 3" DIA PIPE	SAE 36 ksi 2.5X2.5X0.1875	
6	PX 50 ksi 2-1/2" DIA	SAE 36 ksi 2X2X0.1875	SAE 36 ksi 2X2X0.125
7	PX 50 ksi 2-1/2" DIA	SAE 36 ksi 2X2X0.1875	
8	PST 50 ksi 2-1/2" DIA	SAE 36 ksi 1.5X1.5X0.125	SAE 36 ksi 2X2X0.125
9	PST 50 ksi 2" DIA PIP	SAE 36 ksi 1.5X1.5X0.125	
10	PST 50 ksi 2" DIA PIP	SAE 36 ksi 1.5X1.5X0.125	SAE 36 ksi 2X2X0.125

Tower Elevation View



SECONDARY BRACING MEMBERS

DISCRETE APPURTENANCE		LINEAR APPURTENANCE	
Elev (ft)	Description	Elev To (ft)	Description
190.9	(1) Generic 20' Omni	190.0	(1) 1 1/4" Coax
188.6	(1) RFS Celwave PD201-7	188.0	(3) 7/8" Coax
188.6	(1) RFS Celwave PD201-7	185.0	(1) 7/8" Coax
185.1	(1) RFS PD458-2	159.0	(1) 7/8" Coax
185.0	(1) Andrew DB222-B	150.0	(1) 7/8" Coax
177.0	(3) Generic Round Side Arm	135.0	(11) 1 5/8" Coax
163.1	(1) Generic 20' Omni	135.0	(2) Waveguide
159.0	(1) RFS PD458-2	135.0	(2) 1 5/8" (1.63"-41.3mm) Fiber
151.0	(3) Generic Round T-Arm	123.4	(1) 1 5/8" Coax
135.0	(6) JMA Wireless MX06FRO660-03		
135.0	(3) Samsung MT6413-77A		
135.0	(3) Samsung B2/B66A RRH ORAN (RF 4		
135.0	(3) Samsung RF4461d-13A		
135.0	(3) Generic Mount Reinforcement		
135.0	(3) Generic Round Sector Frame		
135.0	(2) Raycap RVZDC-6627-PF-48		
135.0	(2) Commscope LNX-8513DS-VTM (39.2		
135.0	(1) Commscope LNX-6514DS-VTM		
135.0	(1) Commscope VHLPX3-11W-3WH/A		
123.4	(1) Generic Flat Side Arm		
123.4	(1) Kathrein Scala 2x3 7500000044		

GLOBAL BASE REACTIONS

	DL+W/L	DL+W/L+IL
Moment (k-ft):	2298.55	743.18
Axial (k):	26.09	52.46
Shear (k):	23.88	7.73

INDIVIDUAL BASE REACTIONS

Comp (k):	136.41
Uplift (k):	112.94
Shear (k):	14.69

ASSET: 274848, WOLCOTT RD CT
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14529533_C3_04

ANALYSIS PARAMETERS

Location:	New Haven County, CT	Height:	180 ft
Type and Shape:	Self Support, Triangle	Base Elevation:	0.00 ft
Manufacturer:	Rohn	Bottom Face Width:	20.78 ft
Kd:	0.85	Top Face Width:	6.56 ft
Ke:	0.96	Anchor Bolt Detail Type:	c

ICE & WIND PARAMETERS

Exposure Category:	B	Design Wind Speed Without Ice:	114 mph
Risk Category:	II	Design Wind Speed with Ice:	49 mph
Topographic Factor Procedure:	Method 1	Operational Windspeed:	60 mph
Topographic Category:	Flat	Design Ice Thickness:	0.85 in
Crest Height:	0 ft	HMSL:	1050 ft

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil	Period Based on Rayleigh Method (sec):	0.95
T_L (sec):	6	P:	1.3
S_s:	0.191	S₁:	0.054
F_a:	1.600	F_v:	2.400
S_{ds}:	0.204	S_{d1}:	0.086
		C_s:	0.030
		C_{s, Max}:	0.030
		C_{s, Min}:	0.030

LOAD CASES

1.2D + 1.0W Normal	1.2D + 1.0W Normal - 114.04 mph Wind with No Ice
1.2D + 1.0W 60°	1.2D + 1.0W 60° - 114.04 mph Wind with No Ice
1.2D + 1.0W 90°	1.2D + 1.0W 90° - 114.04 mph Wind with No Ice
0.9D + 1.0W Normal	0.9D + 1.0W Normal - 114.04 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 60°	0.9D + 1.0W 60° - 114.04 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 90°	0.9D + 1.0W 90° - 114.04 mph Wind with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi Normal	1.2D + 1.0Di + 1.0Wi Normal - 48.73 mph Wind with 0.85" Radial Ice
1.2D + 1.0Di + 1.0Wi 60°	1.2D + 1.0Di + 1.0Wi 60° - 48.73 mph Wind with 0.85" Radial Ice
1.2D + 1.0Di + 1.0Wi 90°	1.2D + 1.0Di + 1.0Wi 90° - 48.73 mph Wind with 0.85" Radial Ice
1.2D + 1.0Ev + 1.0Eh Normal	1.2D + 1.0Ev + 1.0Eh Normal - Seismic
1.2D + 1.0Ev + 1.0Eh 60°	1.2D + 1.0Ev + 1.0Eh 60° - Seismic
1.2D + 1.0Ev + 1.0Eh 90°	1.2D + 1.0Ev + 1.0Eh 90° - Seismic
0.9D - 1.0Ev + 1.0Eh Normal	0.9D - 1.0Ev + 1.0Eh Normal - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 60°	0.9D - 1.0Ev + 1.0Eh 60° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 90°	0.9D - 1.0Ev + 1.0Eh 90° - Seismic (Reduced DL)
1.0D + 1.0W Service Normal	1.0D + 1.0W Service Normal - 60 mph Wind with No Ice
1.0D + 1.0W Service 60°	1.0D + 1.0W Service 60° - 60 mph Wind with No Ice
1.0D + 1.0W Service 90°	1.0D + 1.0W Service 90° - 60 mph Wind with No Ice

TOWER LOADING – DISCRETE APPURTENANCE

Discrete Appurtenance Properties for LC: 1.2D + 1.0W

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc. (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
190.9	Generic 20' Omni	1	55	6.0	20.0	3.0	3.0	1.00	1.00	0.0	0.00	32.39	165	66
188.6	RFS Celwave PD201-7	1	4	1.1	8.3	1.3	1.3	1.00	1.00	0.0	0.00	32.27	29	5
188.6	RFS Celwave PD201-7	1	4	1.1	8.3	1.3	1.3	1.00	1.00	0.0	0.00	32.27	29	5
185.1	RFS PD458-2	1	22	2.7	13.3	2.0	2.0	1.00	1.00	0.0	0.00	32.10	73	26
185.0	Andrew DB222-B	1	16	2.2	10.6	3.0	3.0	1.00	1.00	-1.0	61.29	32.05	61	19
177.0	Generic Round Side Arm	3	188	5.2	0.0	0.0	0.0	1.00	0.67	0.0	0.00	31.69	282	675
163.1	Generic 20' Omni	1	55	6.0	20.0	3.0	3.0	1.00	1.00	0.0	0.00	30.96	158	66
159.0	RFS PD458-2	1	22	2.7	13.3	2.0	2.0	1.00	1.00	0.0	0.00	30.74	69	26
151.0	Generic Round T-Arm	3	450	9.7	0.0	0.0	0.0	1.00	0.67	0.0	0.00	30.29	502	1620
135.0	Samsung RF4461d-13A	3	79	1.9	1.3	15.0	10.2	0.80	0.50	0.0	0.00	29.33	56	285
135.0	Samsung B2/B66A RRH ORAN (RF 4	3	75	1.9	1.3	15.0	10.0	0.80	0.50	0.0	0.00	29.33	56	269
135.0	Raycap RVZDC-6627-PF-48	2	32	3.8	2.4	15.7	10.3	0.80	0.50	0.0	0.00	29.33	75	77
135.0	Samsung MT6413-77A	3	57	3.8	2.4	15.8	5.5	0.80	0.61	0.0	0.00	29.33	139	206
135.0	Generic Mount Reinforcement	3	200	5.0	0.0	0.0	0.0	0.75	0.67	0.0	0.00	29.33	187	720
135.0	Commscope LNX-6514DS-VTM	1	39	8.2	6.1	11.9	7.1	0.80	0.82	4.0	539.20	29.58	135	47
135.0	Commscope LNX-8513DS-VTM (39.2	2	39	8.2	6.1	11.9	7.1	0.80	0.77	1.0	251.59	29.40	252	94
135.0	JMA Wireless MX06FRO660-03	6	60	9.9	5.9	15.4	10.7	0.80	0.71	0.0	0.00	29.33	839	432
135.0	Commscope VHLPX3-11W-3WH/A	1	37	10.6	3.3	39.3	15.2	0.80	1.00	0.0	0.00	29.33	212	44
135.0	Generic Round Sector Frame	3	700	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.00	29.33	541	2520
123.4	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	28.59	153	225
123.4	Kathrein Scala 2x3 7500000044	1	225	25.8	7.2	35.8	7.5	1.00	1.00	0.0	0.00	28.59	628	270
Totals		42	6,414	281.3									4,642	7,697

Discrete Appurtenance Properties for LC: 0.9D + 1.0W

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc. (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
190.9	Generic 20' Omni	1	55	6.0	20.0	3.0	3.0	1.00	1.00	0.0	0.00	32.39	165	50
188.6	RFS Celwave PD201-7	1	4	1.1	8.3	1.3	1.3	1.00	1.00	0.0	0.00	32.27	29	4
188.6	RFS Celwave PD201-7	1	4	1.1	8.3	1.3	1.3	1.00	1.00	0.0	0.00	32.27	29	4
185.1	RFS PD458-2	1	22	2.7	13.3	2.0	2.0	1.00	1.00	0.0	0.00	32.10	73	20
185.0	Andrew DB222-B	1	16	2.2	10.6	3.0	3.0	1.00	1.00	-1.0	61.29	32.05	61	14
177.0	Generic Round Side Arm	3	188	5.2	0.0	0.0	0.0	1.00	0.67	0.0	0.00	31.69	282	506
163.1	Generic 20' Omni	1	55	6.0	20.0	3.0	3.0	1.00	1.00	0.0	0.00	30.96	158	50
159.0	RFS PD458-2	1	22	2.7	13.3	2.0	2.0	1.00	1.00	0.0	0.00	30.74	69	20
151.0	Generic Round T-Arm	3	450	9.7	0.0	0.0	0.0	1.00	0.67	0.0	0.00	30.29	502	1215
135.0	Samsung RF4461d-13A	3	79	1.9	1.3	15.0	10.2	0.80	0.50	0.0	0.00	29.33	56	214
135.0	Samsung B2/B66A RRH ORAN (RF 4	3	75	1.9	1.3	15.0	10.0	0.80	0.50	0.0	0.00	29.33	56	202
135.0	Raycap RVZDC-6627-PF-48	2	32	3.8	2.4	15.7	10.3	0.80	0.50	0.0	0.00	29.33	75	58
135.0	Samsung MT6413-77A	3	57	3.8	2.4	15.8	5.5	0.80	0.61	0.0	0.00	29.33	139	155
135.0	Generic Mount Reinforcement	3	200	5.0	0.0	0.0	0.0	0.75	0.67	0.0	0.00	29.33	187	540
135.0	Commscope LNX-6514DS-VTM	1	39	8.2	6.1	11.9	7.1	0.80	0.82	4.0	539.20	29.58	135	35
135.0	Commscope LNX-8513DS-VTM (39.2	2	39	8.2	6.1	11.9	7.1	0.80	0.77	1.0	251.59	29.40	252	71
135.0	JMA Wireless MX06FRO660-03	6	60	9.9	5.9	15.4	10.7	0.80	0.71	0.0	0.00	29.33	839	324
135.0	Commscope VHLPX3-11W-3WH/A	1	37	10.6	3.3	39.3	15.2	0.80	1.00	0.0	0.00	29.33	212	33
135.0	Generic Round Sector Frame	3	700	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.00	29.33	541	1890
123.4	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	28.59	153	169
123.4	Kathrein Scala 2x3 7500000044	1	225	25.8	7.2	35.8	7.5	1.00	1.00	0.0	0.00	28.59	628	202
Totals		42	6,414	281.3									4,642	5,773

Discrete Appurtenance Properties for LC: 1.2D + 1.0Di + 1.0Wi

Elev (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc. (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
190.9	Generic 20' Omni	1	141	10.1	20.0	3.0	3.0	1.00	1.00	0.0	0.00	5.91	51	152
188.6	RFS Celwave PD201-7	1	23	2.8	8.3	1.3	1.3	1.00	1.00	0.0	0.00	5.89	14	23
188.6	RFS Celwave PD201-7	1	23	2.8	8.3	1.3	1.3	1.00	1.00	0.0	0.00	5.89	14	23
185.1	RFS PD458-2	1	63	5.4	13.3	2.0	2.0	1.00	1.00	0.0	0.00	5.86	27	68
185.0	Andrew DB222-B	1	56	5.7	10.6	3.0	3.0	1.00	1.00	-1.0	28.49	5.85	28	59
177.0	Generic Round Side Arm	3	240	6.8	0.0	0.0	0.0	1.00	0.67	0.0	0.00	5.79	67	833
163.1	Generic 20' Omni	1	141	10.1	20.0	3.0	3.0	1.00	1.00	0.0	0.00	5.65	48	152
159.0	RFS PD458-2	1	63	5.3	13.3	2.0	2.0	1.00	1.00	0.0	0.00	5.61	25	67
151.0	Generic Round T-Arm	3	806	14.4	0.0	0.0	0.0	1.00	0.67	0.0	0.00	5.53	136	2688
135.0	Samsung RF4461d-13A	3	115	2.4	1.3	15.0	10.2	0.80	0.50	0.0	0.00	5.36	13	393
135.0	Samsung B2/B66A RRH ORAN (RF 4	3	110	2.4	1.3	15.0	10.0	0.80	0.50	0.0	0.00	5.36	13	376
135.0	Raycap RVZDC-6627-PF-48	2	93	4.5	2.4	15.7	10.3	0.80	0.50	0.0	0.00	5.36	16	200
135.0	Samsung MT6413-77A	3	105	4.5	2.4	15.8	5.5	0.80	0.61	0.0	0.00	5.36	30	349
135.0	Generic Mount Reinforcement	3	308	7.8	0.0	0.0	0.0	0.75	0.67	0.0	0.00	5.36	53	1045
135.0	Commscope LNX-6514DS-VTM	1	137	9.8	6.1	11.9	7.1	0.80	0.82	4.0	117.46	5.40	29	145
135.0	Commscope LNX-8513DS-VTM (39.2	2	137	9.8	6.1	11.9	7.1	0.80	0.77	1.0	54.84	5.37	55	290
135.0	JMA Wireless MX06FRO660-03	6	194	11.4	5.9	15.4	10.7	0.80	0.71	0.0	0.00	5.36	177	1237
135.0	Commscope VHLPX3-11W-3WH/A	1	152	11.7	3.3	39.3	15.2	0.80	1.00	0.0	0.00	5.36	43	159
135.0	Generic Round Sector Frame	3	1246	23.7	0.0	0.0	0.0	0.75	0.67	0.0	0.00	5.36	162	4158
123.4	Generic Flat Side Arm	1	262	8.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	5.22	36	300
123.4	Kathrein Scala 2x3 7500000044	1	468	27.8	7.2	35.8	7.5	1.00	1.00	0.0	0.00	5.22	124	513

ASSET: 274848, WOLCOTT RD CT
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 PROJECT: 14529533_C3_04

Elev (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc. (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
Totals		42	11,948	382.1									1162	13,231

Discrete Appurtenance Properties for LC: 1.0D + 1.0W Service

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc. (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
190.9	Generic 20' Omni	1	55	6.0	20.0	3.0	3.0	1.00	1.00	0.0	0.00	8.96	46	55
188.6	RFS Celwave PD201-7	1	4	1.1	8.3	1.3	1.3	1.00	1.00	0.0	0.00	8.93	8	4
188.6	RFS Celwave PD201-7	1	4	1.1	8.3	1.3	1.3	1.00	1.00	0.0	0.00	8.93	8	4
185.1	RFS PD458-2	1	22	2.7	13.3	2.0	2.0	1.00	1.00	0.0	0.00	8.89	20	22
185.0	Andrew DB222-B	1	16	2.2	10.6	3.0	3.0	1.00	1.00	-1.0	16.97	8.87	17	16
177.0	Generic Round Side Arm	3	188	5.2	0.0	0.0	0.0	1.00	0.67	0.0	0.00	8.77	78	562
163.1	Generic 20' Omni	1	55	6.0	20.0	3.0	3.0	1.00	1.00	0.0	0.00	8.57	44	55
159.0	RFS PD458-2	1	22	2.7	13.3	2.0	2.0	1.00	1.00	0.0	0.00	8.51	19	22
151.0	Generic Round T-Arm	3	450	9.7	0.0	0.0	0.0	1.00	0.67	0.0	0.00	8.38	139	1350
135.0	Samsung RF4461d-13A	3	79	1.9	1.3	15.0	10.2	0.80	0.50	0.0	0.00	8.12	16	237
135.0	Samsung B2/B66A RRH ORAN (RF 4	3	75	1.9	1.3	15.0	10.0	0.80	0.50	0.0	0.00	8.12	16	224
135.0	Raycap RVZDC-6627-PF-48	2	32	3.8	2.4	15.7	10.3	0.80	0.50	0.0	0.00	8.12	21	64
135.0	Samsung MT6413-77A	3	57	3.8	2.4	15.8	5.5	0.80	0.61	0.0	0.00	8.12	38	172
135.0	Generic Mount Reinforcement	3	200	5.0	0.0	0.0	0.0	0.75	0.67	0.0	0.00	8.12	52	600
135.0	Commscope LNX-6514DS-VTM	1	39	8.2	6.1	11.9	7.1	0.80	0.82	4.0	149.26	8.19	37	39
135.0	Commscope LNX-8513DS-VTM (39.2	2	39	8.2	6.1	11.9	7.1	0.80	0.77	1.0	69.64	8.14	70	78
135.0	JMA Wireless MX06FRO660-03	6	60	9.9	5.9	15.4	10.7	0.80	0.71	0.0	0.00	8.12	232	360
135.0	Commscope VHLPX3-11W-3WH/A	1	37	10.6	3.3	39.3	15.2	0.80	1.00	0.0	0.00	8.12	59	37
135.0	Generic Round Sector Frame	3	700	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.00	8.12	150	2100
123.4	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	7.91	42	188
123.4	Kathrein Scala 2x3 7500000044	1	225	25.8	7.2	35.8	7.5	1.00	1.00	0.0	0.00	7.91	174	225
Totals		42	6,414	281.3									1,285	6,414

ASSET: 274848, WOLCOTT RD CT
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 PROJECT: 14529533_C3_04

TOWER LOADING – LINEAR APPURTENANCE

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	% In Wind	Spread On Faces	Bundling	Cluster Dia (in)	Out of Zone	Spacing (in)	Orient. Factor	K _a Override
0.0	190.0	1 1/4" Coax	1	1.55	0.63	100	3	Individual	0.00	N	1.00	1.00	0.00
0.0	188.0	7/8" Coax	1	1.09	0.33	100	3	Individual	0.00	N	1.00	1.00	0.00
0.0	188.0	7/8" Coax	2	1.09	0.33	100	3	Individual	0.00	N	1.00	1.00	0.00
0.0	185.0	7/8" Coax	1	1.09	0.33	100	3	Individual	0.00	N	1.00	1.00	0.00
0.0	159.0	7/8" Coax	1	1.09	0.33	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	150.0	7/8" Coax	1	1.09	0.33	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	135.0	1 5/8" Coax	5	1.98	0.82	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	135.0	Waveguide	1	2.00	6.00	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.0	135.0	1 5/8" (1.63"-41.3mm) Fiber	2	1.63	1.61	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	135.0	Waveguide	1	2.00	6.00	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.0	135.0	1 5/8" Coax	6	1.98	0.82	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	123.4	1 5/8" Coax	1	1.98	0.82	100	2	Individual	0.00	N	1.00	1.00	0.00

SECTION FORCES

1.2D + 1.0W Normal

Gust Response Factor (Gh): 0.85

114.04 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _s (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
10	170	31.33	10.416	7.917	0.00	0.136	2.82	1.00	1.00	0.0	14.90	42.09	0.00	689	0	1121	189	1310	
9	150	30.23	9.406	7.917	0.00	0.127	2.86	1.00	1.00	0.0	13.88	39.67	0.00	664	0	1019	231	1250	
8	130	29.02	9.987	9.599	0.00	0.124	2.87	1.00	1.00	0.0	15.41	44.24	0.00	1284	0	1091	953	2044	
7	117	28.14	3.654	3.201	0.00	0.111	2.92	1.00	1.00	0.0	5.46	15.94	0.00	602	0	381	400	781	
6	107	27.42	9.370	6.399	0.00	0.115	2.90	1.00	1.00	0.0	12.98	37.70	0.00	1289	0	879	779	1658	
5	90	26.12	16.478	11.686	0.00	0.117	2.90	1.00	1.00	0.0	23.08	66.82	0.00	2297	0	1484	1113	2597	
4	70	24.31	18.725	11.688	0.00	0.108	2.93	1.00	1.00	0.0	25.32	74.22	0.00	2417	0	1534	1036	2570	
3	50	22.09	18.326	15.025	0.00	0.103	2.95	1.00	1.00	0.0	26.81	79.12	0.00	2744	0	1485	941	2426	
2	30	19.09	20.010	15.024	0.00	0.096	2.98	1.00	1.00	0.0	28.49	84.84	0.00	2835	0	1376	813	2190	
1	10	19.07	25.317	18.574	0.00	0.108	2.93	1.00	1.00	0.0	34.37	100.72	0.00	3570	0	1633	813	2445	
															Totals	18,390	0	19,272	

1.2D + 1.0W 60°

Gust Response Factor (Gh): 0.85

114.04 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _s (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
10	170	31.33	10.416	7.917	0.00	0.136	2.82	0.80	1.00	0.0	12.82	36.20	0.00	689	0	964	189	1153	
9	150	30.23	9.406	7.917	0.00	0.127	2.86	0.80	1.00	0.0	12.00	34.29	0.00	664	0	881	231	1112	
8	130	29.02	9.987	9.599	0.00	0.124	2.87	0.80	1.00	0.0	13.42	38.50	0.00	1284	0	950	953	1903	
7	117	28.14	3.654	3.201	0.00	0.111	2.92	0.80	1.00	0.0	4.73	13.81	0.00	602	0	330	400	730	
6	107	27.42	9.370	6.399	0.00	0.115	2.90	0.80	1.00	0.0	11.11	32.26	0.00	1289	0	752	779	1531	
5	90	26.12	16.478	11.686	0.00	0.117	2.90	0.80	1.00	0.0	19.79	57.28	0.00	2297	0	1272	1113	2385	
4	70	24.31	18.725	11.688	0.00	0.108	2.93	0.80	1.00	0.0	21.58	63.25	0.00	2417	0	1307	1036	2343	
3	50	22.09	18.326	15.025	0.00	0.103	2.95	0.80	1.00	0.0	23.14	68.30	0.00	2744	0	1282	941	2223	
2	30	19.09	20.010	15.024	0.00	0.096	2.98	0.80	1.00	0.0	24.49	72.92	0.00	2835	0	1183	813	1996	
1	10	19.07	25.317	18.574	0.00	0.108	2.93	0.80	1.00	0.0	29.54	86.57	0.00	3570	0	1403	813	2216	
															Totals	18,390	0	17,593	

1.2D + 1.0W 90°

Gust Response Factor (Gh): 0.85

114.04 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _s (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
10	170	31.33	10.416	7.917	0.00	0.136	2.82	0.85	1.00	0.0	13.34	37.67	0.00	689	0	1003	189	1192	
9	150	30.23	9.406	7.917	0.00	0.127	2.86	0.85	1.00	0.0	12.47	35.64	0.00	664	0	916	231	1147	
8	130	29.02	9.987	9.599	0.00	0.124	2.87	0.85	1.00	0.0	13.92	39.94	0.00	1284	0	985	953	1938	
7	117	28.14	3.654	3.201	0.00	0.111	2.92	0.85	1.00	0.0	4.91	14.34	0.00	602	0	343	400	743	
6	107	27.42	9.370	6.399	0.00	0.115	2.90	0.85	1.00	0.0	11.58	33.62	0.00	1289	0	784	779	1562	
5	90	26.12	16.478	11.686	0.00	0.117	2.90	0.85	1.00	0.0	20.61	59.67	0.00	2297	0	1325	1113	2438	
4	70	24.31	18.725	11.688	0.00	0.108	2.93	0.85	1.00	0.0	22.52	65.99	0.00	2417	0	1364	1036	2400	
3	50	22.09	18.326	15.025	0.00	0.103	2.95	0.85	1.00	0.0	24.06	71.01	0.00	2744	0	1333	941	2274	
2	30	19.09	20.010	15.024	0.00	0.096	2.98	0.85	1.00	0.0	25.49	75.90	0.00	2835	0	1231	813	2045	
1	10	19.07	25.317	18.574	0.00	0.108	2.93	0.85	1.00	0.0	30.81	90.28	0.00	3570	0	1463	813	2276	
															Totals	18,390	0	18,016	

0.9D + 1.0W Normal

Gust Response Factor (Gh): 0.85

114.04 mph Wind with No Ice (Reduced DL)

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _s (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
10	170	31.33	10.416	7.917	0.00	0.136	2.82	1.00	1.00	0.0	14.90	42.09	0.00	517	0	1121	189	1310	
9	150	30.23	9.406	7.917	0.00	0.127	2.86	1.00	1.00	0.0	13.88	39.67	0.00	498	0	1019	231	1250	
8	130	29.02	9.987	9.599	0.00	0.124	2.87	1.00	1.00	0.0	15.41	44.24	0.00	963	0	1091	953	2044	
7	117	28.14	3.654	3.201	0.00	0.111	2.92	1.00	1.00	0.0	5.46	15.94	0.00	452	0	381	400	781	
6	107	27.42	9.370	6.399	0.00	0.115	2.90	1.00	1.00	0.0	12.98	37.70	0.00	967	0	879	779	1658	
5	90	26.12	16.478	11.686	0.00	0.117	2.90	1.00	1.00	0.0	23.08	66.82	0.00	1723	0	1484	1113	2597	
4	70	24.31	18.725	11.688	0.00	0.108	2.93	1.00	1.00	0.0	25.32	74.22	0.00	1813	0	1534	1036	2570	
3	50	22.09	18.326	15.025	0.00	0.103	2.95	1.00	1.00	0.0	26.81	79.12	0.00	2058	0	1485	941	2426	
2	30	19.09	20.010	15.024	0.00	0.096	2.98	1.00	1.00	0.0	28.49	84.84	0.00	2126	0	1376	813	2190	
1	10	19.07	25.317	18.574	0.00	0.108	2.93	1.00	1.00	0.0	34.61	101.41	0.00	2677	0	1644	813	2457	
															Totals	13,793	0	19,283	

0.9D + 1.0W 60°

Gust Response Factor (Gh): 0.85

114.04 mph Wind with No Ice (Reduced DL)

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _s (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	170	31.33	10.416	7.917	0.00	0.136	2.82	0.80	1.00	0.0	12.82	36.20	0.00	517	0	964	189	1153
9	150	30.23	9.406	7.917	0.00	0.127	2.86	0.80	1.00	0.0	12.00	34.29	0.00	498	0	881	231	1112
8	130	29.02	9.987	9.599	0.00	0.124	2.87	0.80	1.00	0.0	13.42	38.50	0.00	963	0	950	953	1903
7	117	28.14	3.654	3.201	0.00	0.111	2.92	0.80	1.00	0.0	4.73	13.81	0.00	452	0	330	400	730
6	107	27.42	9.370	6.399	0.00	0.115	2.90	0.80	1.00	0.0	11.11	32.26	0.00	967	0	752	779	1531
5	90	26.12	16.478	11.686	0.00	0.117	2.90	0.80	1.00	0.0	19.79	57.28	0.00	1723	0	1272	1113	2385
4	70	24.31	18.725	11.688	0.00	0.108	2.93	0.80	1.00	0.0	21.58	63.25	0.00	1813	0	1307	1036	2343
3	50	22.09	18.326	15.025	0.00	0.103	2.95	0.80	1.00	0.0	23.14	68.30	0.00	2058	0	1282	941	2223
2	30	19.09	20.010	15.024	0.00	0.096	2.98	0.80	1.00	0.0	24.49	72.92	0.00	2126	0	1183	813	1996

SECTION FORCES

0.9D + 1.0W 60°

Gust Response Factor (Gh): 0.85

114.04 mph Wind with No Ice (Reduced DL)

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
1	10	19.07	25.317	18.574	0.00	0.108	2.93	0.80	1.00	0.0	29.54	86.57	0.00	2677	0	1403	813	2216	
														Totals	13,793	0			17,593

0.9D + 1.0W 90°

Gust Response Factor (Gh): 0.85

114.04 mph Wind with No Ice (Reduced DL)

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
10	170	31.33	10.416	7.917	0.00	0.136	2.82	0.85	1.00	0.0	13.34	37.67	0.00	517	0	1003	189	1192	
9	150	30.23	9.406	7.917	0.00	0.127	2.86	0.85	1.00	0.0	12.47	35.64	0.00	498	0	916	231	1147	
8	130	29.02	9.987	9.599	0.00	0.124	2.87	0.85	1.00	0.0	13.92	39.94	0.00	963	0	985	953	1938	
7	117	28.14	3.654	3.201	0.00	0.111	2.92	0.85	1.00	0.0	4.91	14.34	0.00	452	0	343	400	743	
6	107	27.42	9.370	6.399	0.00	0.115	2.90	0.85	1.00	0.0	11.58	33.62	0.00	967	0	784	779	1562	
5	90	26.12	16.478	11.686	0.00	0.117	2.90	0.85	1.00	0.0	20.61	59.67	0.00	1723	0	1325	1113	2438	
4	70	24.31	18.725	11.688	0.00	0.108	2.93	0.85	1.00	0.0	22.52	65.99	0.00	1813	0	1364	1036	2400	
3	50	22.09	18.326	15.025	0.00	0.103	2.95	0.85	1.00	0.0	24.06	71.01	0.00	2058	0	1333	941	2274	
2	30	19.09	20.010	15.024	0.00	0.096	2.98	0.85	1.00	0.0	25.49	75.90	0.00	2126	0	1231	813	2045	
1	10	19.07	25.317	18.574	0.00	0.108	2.93	0.85	1.00	0.0	30.81	90.28	0.00	2677	0	1463	813	2276	
														Totals	13,793	0			18,016

1.2D + 1.0Di + 1.0Wi Normal

Gust Response Factor (Gh): 0.85

Ice Importance Factor: 1.00

48.73 mph Wind with 0.85" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
10	170	5.72	10.416	28.509	20.59	0.281	2.35	1.00	1.00	1.0	27.33	64.16	20.59	1999	1310	312	111	423	
9	150	5.52	9.406	27.246	19.33	0.263	2.40	1.00	1.00	1.0	25.43	61.03	19.33	1954	1290	286	140	426	
8	130	5.30	9.987	29.094	19.49	0.242	2.46	1.00	1.00	1.0	26.95	66.33	19.49	3444	2161	299	464	763	
7	117	5.14	3.654	8.950	5.75	0.201	2.59	1.00	1.00	1.0	8.80	22.80	5.75	1425	823	100	199	298	
6	107	5.01	9.370	19.808	13.41	0.210	2.56	1.00	1.00	1.0	20.79	53.26	13.41	3054	1765	227	382	608	
5	90	4.77	16.478	30.623	18.94	0.194	2.62	1.00	1.00	0.9	34.04	89.07	18.94	5050	2753	361	550	912	
4	70	4.44	18.725	31.816	20.13	0.178	2.67	1.00	1.00	0.9	36.89	98.54	20.13	5222	2805	372	514	886	
3	50	4.03	18.326	31.989	16.96	0.154	2.76	1.00	1.00	0.9	36.50	100.59	16.96	5447	2703	345	471	816	
2	30	3.48	20.010	32.100	17.08	0.142	2.80	1.00	1.00	0.8	38.20	106.96	17.08	5465	2630	317	402	719	
1	10	3.48	25.317	34.758	16.18	0.148	2.78	1.00	1.00	0.8	45.03	125.23	16.18	6170	2601	371	379	749	
														Totals	39,232	20,842			6,601

1.2D + 1.0Di + 1.0Wi 60°

Gust Response Factor (Gh): 0.85

Ice Importance Factor: 1.00

48.73 mph Wind with 0.85" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
10	170	5.72	10.416	28.509	20.59	0.281	2.35	0.80	1.00	1.0	25.25	59.26	20.59	1999	1310	288	111	400	
9	150	5.52	9.406	27.246	19.33	0.263	2.40	0.80	1.00	1.0	23.55	56.52	19.33	1954	1290	265	140	405	
8	130	5.30	9.987	29.094	19.49	0.242	2.46	0.80	1.00	1.0	24.96	61.41	19.49	3444	2161	277	464	741	
7	117	5.14	3.654	8.950	5.75	0.201	2.59	0.80	1.00	1.0	8.07	20.91	5.75	1425	823	91	199	290	
6	107	5.01	9.370	19.808	13.41	0.210	2.56	0.80	1.00	1.0	18.91	48.46	13.41	3054	1765	206	382	588	
5	90	4.77	16.478	30.623	18.94	0.194	2.62	0.80	1.00	0.9	30.74	80.45	18.94	5050	2753	326	550	877	
4	70	4.44	18.725	31.816	20.13	0.178	2.67	0.80	1.00	0.9	33.15	88.54	20.13	5222	2805	334	514	849	
3	50	4.03	18.326	31.989	16.96	0.154	2.76	0.80	1.00	0.9	32.83	90.49	16.96	5447	2703	310	471	781	
2	30	3.48	20.010	32.100	17.08	0.142	2.80	0.80	1.00	0.8	34.20	95.76	17.08	5465	2630	284	402	685	
1	10	3.48	25.317	34.758	16.18	0.148	2.78	0.80	1.00	0.8	39.97	111.15	16.18	6170	2601	329	379	708	
														Totals	39,232	20,842			6,323

1.2D + 1.0Di + 1.0Wi 90°

Gust Response Factor (Gh): 0.85

Ice Importance Factor: 1.00

48.73 mph Wind with 0.85" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
10	170	5.72	10.416	28.509	20.59	0.281	2.35	0.85	1.00	1.0	25.77	60.49	20.59	1999	1310	294	111	405	
9	150	5.52	9.406	27.246	19.33	0.263	2.40	0.85	1.00	1.0	24.02	57.65	19.33	1954	1290	270	140	411	
8	130	5.30	9.987	29.094	19.49	0.242	2.46	0.85	1.00	1.0	25.46	62.64	19.49	3444	2161	282	464	746	
7	117	5.14	3.654	8.950	5.75	0.201	2.59	0.85	1.00	1.0	8.25	21.38	5.75	1425	823	93	199	292	
6	107	5.01	9.370	19.808	13.41	0.210	2.56	0.85	1.00	1.0	19.38	49.66	13.41	3054	1765	211	382	593	
5	90	4.77	16.478	30.623	18.94	0.194	2.62	0.85	1.00	0.9	31.57	82.60	18.94	5050	2753	335	550	885	
4	70	4.44	18.725	31.816	20.13	0.178	2.67	0.85	1.00	0.9	34.08	91.04	20.13	5222	2805	344	514	858	
3	50	4.03	18.326	31.989	16.96	0.154	2.76	0.85	1.00	0.9	33.75	93.02	16.96	5447	2703	319	471	790	
2	30	3.48	20.010	32.100	17.08	0.142	2.80	0.85	1.00	0.8	35.20	98.56	17.08	5465	2630	292	402	694	
1	10	3.48	25.317	34.758	16.18	0.148	2.78	0.85	1.00	0.8	41.24	114.67	16.18	6170	2601	339	379	718	
														Totals	39,232	20,842			6,393

1.0D + 1.0W Service Normal

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	170	8.67	10.416	7.917	0.00	0.136	2.82	1.00	1.00	0.0	14.90	42.09	0.00	575	0	310	52	363

SECTION FORCES

1.0D + 1.0W Service Normal
 60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
9	150	8.37	9.406	7.917	0.00	0.127	2.86	1.00	1.00	0.0	13.88	39.67	0.00	553	0	282	64	346	
8	130	8.03	9.987	9.599	0.00	0.124	2.87	1.00	1.00	0.0	15.41	44.24	0.00	1070	0	302	264	566	
7	117	7.79	3.654	3.201	0.00	0.111	2.92	1.00	1.00	0.0	5.46	15.94	0.00	502	0	106	111	216	
6	107	7.59	9.370	6.399	0.00	0.115	2.90	1.00	1.00	0.0	12.98	37.70	0.00	1074	0	243	216	459	
5	90	7.23	16.478	11.686	0.00	0.117	2.90	1.00	1.00	0.0	23.08	66.82	0.00	1914	0	411	308	719	
4	70	6.73	18.725	11.688	0.00	0.108	2.93	1.00	1.00	0.0	25.32	74.22	0.00	2014	0	425	287	711	
3	50	6.11	18.326	15.025	0.00	0.103	2.95	1.00	1.00	0.0	26.81	79.12	0.00	2286	0	411	261	672	
2	30	5.28	20.010	15.024	0.00	0.096	2.98	1.00	1.00	0.0	28.49	84.84	0.00	2362	0	381	225	606	
1	10	5.28	25.317	18.574	0.00	0.108	2.93	1.00	1.00	0.0	35.80	104.92	0.00	2975	0	471	225	696	
														Totals	15,325	0			5,354

1.0D + 1.0W Service 60°
 60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
10	170	8.67	10.416	7.917	0.00	0.136	2.82	0.80	1.00	0.0	12.82	36.20	0.00	575	0	267	52	319	
9	150	8.37	9.406	7.917	0.00	0.127	2.86	0.80	1.00	0.0	12.00	34.29	0.00	553	0	244	64	308	
8	130	8.03	9.987	9.599	0.00	0.124	2.87	0.80	1.00	0.0	13.42	38.50	0.00	1070	0	263	264	527	
7	117	7.79	3.654	3.201	0.00	0.111	2.92	0.80	1.00	0.0	4.73	13.81	0.00	502	0	91	111	202	
6	107	7.59	9.370	6.399	0.00	0.115	2.90	0.80	1.00	0.0	11.11	32.26	0.00	1074	0	208	216	424	
5	90	7.23	16.478	11.686	0.00	0.117	2.90	0.80	1.00	0.0	19.79	57.28	0.00	1914	0	352	308	660	
4	70	6.73	18.725	11.688	0.00	0.108	2.93	0.80	1.00	0.0	21.58	63.25	0.00	2014	0	362	287	649	
3	50	6.11	18.326	15.025	0.00	0.103	2.95	0.80	1.00	0.0	23.14	68.30	0.00	2286	0	355	261	615	
2	30	5.28	20.010	15.024	0.00	0.096	2.98	0.80	1.00	0.0	24.49	72.92	0.00	2362	0	327	225	553	
1	10	5.28	25.317	18.574	0.00	0.108	2.93	0.80	1.00	0.0	30.74	90.08	0.00	2975	0	404	225	629	
														Totals	15,325	0			4,886

1.0D + 1.0W Service 90°
 60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
10	170	8.67	10.416	7.917	0.00	0.136	2.82	0.85	1.00	0.0	13.34	37.67	0.00	575	0	278	52	330	
9	150	8.37	9.406	7.917	0.00	0.127	2.86	0.85	1.00	0.0	12.47	35.64	0.00	553	0	253	64	317	
8	130	8.03	9.987	9.599	0.00	0.124	2.87	0.85	1.00	0.0	13.92	39.94	0.00	1070	0	273	264	537	
7	117	7.79	3.654	3.201	0.00	0.111	2.92	0.85	1.00	0.0	4.91	14.34	0.00	502	0	95	111	206	
6	107	7.59	9.370	6.399	0.00	0.115	2.90	0.85	1.00	0.0	11.58	33.62	0.00	1074	0	217	216	433	
5	90	7.23	16.478	11.686	0.00	0.117	2.90	0.85	1.00	0.0	20.61	59.67	0.00	1914	0	367	308	675	
4	70	6.73	18.725	11.688	0.00	0.108	2.93	0.85	1.00	0.0	22.52	65.99	0.00	2014	0	378	287	664	
3	50	6.11	18.326	15.025	0.00	0.103	2.95	0.85	1.00	0.0	24.06	71.01	0.00	2286	0	369	261	630	
2	30	5.28	20.010	15.024	0.00	0.096	2.98	0.85	1.00	0.0	25.49	75.90	0.00	2362	0	341	225	566	
1	10	5.28	25.317	18.574	0.00	0.108	2.93	0.85	1.00	0.0	32.01	93.79	0.00	2975	0	421	225	646	
														Totals	15,325	0			5,003

ASSET: 274848, WOLCOTT RD CT
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 PROJECT: 14529533_C3_04

EQUIVALENT LATERAL FORCE METHOD

Spectral Response Acceleration for Short Period (S_s):	0.19
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.05
Long-Period Transition Period (T_L - Seconds):	6
Importance Factor (I_e):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	3.00
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.20
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.09
Seismic Response Coefficient (C_s):	0.03
Upper Limit C_s :	0.03
Lower Limit C_s :	0.03
Period based on Rayleigh Method (sec):	0.95
Redundancy Factor (ρ):	1.30
Seismic Force Distribution Exponent (k):	1.22
Total Unfactored Dead Load:	21.74 k
Seismic Base Shear (E):	0.86 k

SEISMIC FORCES

0.9D - 1.0Ev + 1.0Eh

Section/Appurtenance	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
10	170.00	575	308,192	0.056	48	494
9	150.00	553	254,643	0.046	39	475
8	130.00	1,070	413,280	0.074	64	919
7	116.66	502	169,892	0.031	26	431
6	106.66	1,074	325,758	0.059	50	923
5	90.00	1,914	471,448	0.085	73	1,645
4	70.00	2,014	364,779	0.066	56	1,731
3	50.00	2,286	274,305	0.049	42	1,964
2	30.00	2,362	151,680	0.027	23	2,030
1	10.00	2,975	49,795	0.009	8	2,556
Generic 20' Omni	180.00	55	31,640	0.006	5	47
RFS Celwave PD201-7	180.00	4	2,301	0.000	0	3
RFS Celwave PD201-7	180.00	4	2,301	0.000	0	3
RFS PD458-2	180.00	22	12,656	0.002	2	19
Andrew DB222-B	180.00	16	9,204	0.002	1	14
Generic Round Side Arm	177.00	562	317,006	0.057	49	483
Generic 20' Omni	163.10	55	28,044	0.005	4	47
RFS PD458-2	159.00	22	10,874	0.002	2	19
Generic Round T-Arm	151.00	1,350	626,391	0.113	97	1,160
Samsung RF4461d-13A	135.00	237	96,002	0.017	15	204
Samsung B2/B66A RRH ORAN (RF 4439d-25A)	135.00	224	90,662	0.016	14	193
Raycap RVZDC-6627-PF-48	135.00	64	25,892	0.005	4	55
Samsung MT6413-77A	135.00	172	69,544	0.012	11	148
Generic Mount Reinforcement	135.00	600	242,737	0.044	38	516
Commscope LNX-6514DS-VTM	135.00	39	15,697	0.003	2	33
Commscope LNX-8513DS-VTM (39.2 lb)	135.00	78	31,718	0.006	5	67
JMA Wireless MX06FRO660-03	135.00	360	145,642	0.026	23	309
Commscope VHLPX3-11W-3WH/A	135.00	37	14,969	0.003	2	32
Generic Round Sector Frame	135.00	2,100	849,579	0.153	131	1,804
Generic Flat Side Arm	123.40	188	67,957	0.012	11	161
Kathrein Scala 2x3 7500000044	123.40	225	81,513	0.015	13	193
Totals		21,740	5,556,103	1.000	859	18,680

1.2D + 1.0Ev + 1.0Eh

Section/Appurtenance	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
10	170.00	575	308,192	0.056	48	713
9	150.00	553	254,643	0.046	39	686
8	130.00	1,070	413,280	0.074	64	1,327
7	116.66	502	169,892	0.031	26	623
6	106.66	1,074	325,758	0.059	50	1,333

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5	90.00	1,914	471,448	0.085	73	2,375
4	70.00	2,014	364,779	0.066	56	2,499
3	50.00	2,286	274,305	0.049	42	2,837
2	30.00	2,362	151,680	0.027	23	2,931
1	10.00	2,975	49,795	0.009	8	3,691
Generic 20' Omni	180.00	55	31,640	0.006	5	68
RFS Celwave PD201-7	180.00	4	2,301	0.000	0	5
RFS Celwave PD201-7	180.00	4	2,301	0.000	0	5
RFS PD458-2	180.00	22	12,656	0.002	2	27
Andrew DB222-B	180.00	16	9,204	0.002	1	20
Generic Round Side Arm	177.00	562	317,006	0.057	49	698
Generic 20' Omni	163.10	55	28,044	0.005	4	68
RFS PD458-2	159.00	22	10,874	0.002	2	27
Generic Round T-Arm	151.00	1,350	626,391	0.113	97	1,675
Samsung RF4461d-13A	135.00	237	96,002	0.017	15	294
Samsung B2/B66A RRH ORAN (RF 4439d-25A)	135.00	224	90,662	0.016	14	278
Raycap RVZDC-6627-PF-48	135.00	64	25,892	0.005	4	79
Samsung MT6413-77A	135.00	172	69,544	0.012	11	213
Generic Mount Reinforcement	135.00	600	242,737	0.044	38	744
Commscope LNX-6514DS-VTM	135.00	39	15,697	0.003	2	48
Commscope LNX-8513DS-VTM (39.2 lb)	135.00	78	31,718	0.006	5	97
JMA Wireless MX06FRO660-03	135.00	360	145,642	0.026	23	447
Commscope VHLPX3-11W-3WH/A	135.00	37	14,969	0.003	2	46
Generic Round Sector Frame	135.00	2,100	849,579	0.153	131	2,606
Generic Flat Side Arm	123.40	188	67,957	0.012	11	233
Kathrein Scala 2x3 7500000044	123.40	225	81,513	0.015	13	279
Totals		21,740	5,556,103	1.000	859	26,973

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FORCE/STRESS SUMMARY

Section 1 – 0.0' to 20.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear		Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
				X	Y	Z				ΦR _{nv} (kip)	ΦR _n (kip)					
L PST - 5" DIA PIPE	-132.41	1.2D + 1.0W N	10.017	100	100	100	63.94	50.00	143.51	0.00	0.00	0	0	92	Member X	
D SAE - 3.5x3.5x0.25	-4.33	1.2D + 1.0W N	22.612	50	50	50	197.20	50.00	12.44	13.81	19.50	1	1	34	Member Z	

Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls
D SAE - 3.5x3.5x0.25	4.14	1.2D + 1.0W 90°	50.0	65	55.51	13.81	11.70	17.82	1	1	35	Bolt Bear

Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type
Bot Tension	113.78	0.9D + 1.0W 60°	227.15	25	4	1" A354-BC
Bot Compression	136.62	1.2D + 1.0W N	264.10	1	0	

Section 2 – 20.0' to 40.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear		Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
				X	Y	Z				ΦR _{nv} (kip)	ΦR _n (kip)					
L PX - 4" DIA PIPE	-117.13	1.2D + 1.0W N	10.016	100	100	100	81.21	50.00	122.52	0.00	0.00	0	0	95	Member X	
D SAE - 3X3X0.1875	-4.35	1.2D + 1.0W 90°	20.836	50	50	50	209.76	36.00	7.09	13.81	13.05	1	1	61	Member Z	

Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls
D SAE - 3X3X0.1875	4.21	1.2D + 1.0W 90°	36.0	58	31.36	13.81	7.83	9.89	1	1	53	Bolt Bear

Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type
Bot Tension	100.23	0.9D + 1.0W 60°	218.07	46	4	1 A325

Section 3 – 40.0' to 60.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear		Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
				X	Y	Z				ΦR _{nv} (kip)	ΦR _n (kip)					
L PX - 4" DIA PIPE	-100.63	1.2D + 1.0W N	10.017	100	100	100	81.22	50.00	122.52	0.00	0.00	0	0	82	Member X	
D SAE - 3X3X0.1875	-4.10	1.2D + 1.0W 90°	19.124	50	50	50	192.52	36.00	8.42	13.81	13.05	1	1	48	Member Z	

Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls
D SAE - 3X3X0.1875	4.01	1.2D + 1.0W 90°	36.0	58	31.36	13.81	7.83	9.89	1	1	51	Bolt Bear

Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type
Bot Tension	86.52	0.9D + 1.0W 60°	166.22	52	4	0.875" A325

Section 4 – 60.0' to 80.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear		Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
				X	Y	Z				ΦR _{nv} (kip)	ΦR _n (kip)					
L PX - 3" DIA PIPE	-85.22	1.2D + 1.0W N	6.679	100	100	100	70.30	50.00	94.68	0.00	0.00	0	0	90	Member X	
D SAE - 2.5X2.5X0.1875	-3.30	1.2D + 1.0W 90°	15.914	50	50	50	192.90	36.00	6.94	8.84	10.44	1	1	47	Member Z	

Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls
D SAE - 2.5X2.5X0.1875	3.26	1.2D + 1.0W 90°	36.0	58	25.99	8.84	6.20	8.77	1	1	52	Bolt Bear

Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type
Bot Tension	72.35	0.9D + 1.0W 60°	166.22	44	4	0.875" A325

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FORCE/STRESS SUMMARY

Section 5 – 80.0' to 100.00'

Member Compression		Pu (kip)	Load Case	Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	Shear Φ _{R_{nv}} (kip)	Bear Φ _{R_n} (kip)	# Bolt	# Hole	Use %	Controls
L PX - 3" DIA PIPE	-68.46	1.2D + 1.0W N	6.678	100	100	100	70.29	50.00	94.69	0.00	0.00	0	0	72	Member X
D SAE - 2.5X2.5X0.1875	-3.12	1.2D + 1.0W 90°	14.054	50	50	50	170.36	36.00	8.90	8.84	10.44	1	1	35	Bolt Shear

Member Tension		Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear Φ _{R_{nv}} (kip)	Bear Φ _{R_n} (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls
L PX - 3" DIA PIPE	56.24	0.9D + 1.0W 60°	50.0	65	135.90	0.00	0.00	0.00	0	0	41	Member	
D SAE - 2.5X2.5X0.1875	3.04	1.2D + 1.0W 90°	36.0	58	25.99	8.84	6.20	8.77	1	1	49	Bolt Bear	

Max Splice Forces		Pu (kip)	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type
Bot Tension	58.45	0.9D + 1.0W 60°	166.22	35	4	0.875" A325	

FORCE/STRESS SUMMARY

Section 6 – 100.0' to 113.33'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear		Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
				X	Y	Z				ΦR _{nv} (kip)	ΦR _n (kip)					
L PX - 2-1/2" DIA PIPE	-51.06	1.2D + 1.0W N	6.677	100	100	100	86.71	50.00	58.43	0.00	0.00	0	0	87	Member X	
H SAE - 2X2X0.125	-0.31	1.2D + 1.0W N	9.33	100	100	100	281.30	36.00	1.74	8.84	6.96	1	1	18	Member Z	
D SAE - 2X2X0.1875	-2.74	1.2D + 1.0W 90°	12.321	50	50	50	187.63	36.00	5.81	8.84	10.44	1	1	47	Member Z	

Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)		# Bolt	# Hole	Use %	Controls
								Φ _t P _n (kip)	Φ _t P _n (kip)				
L PX - 2-1/2" DIA PIPE	41.03	0.9D + 1.0W 60°	50.0	65	101.25	0.00	0.00			0	0	40	Member
H SAE - 2X2X0.125	0.35	1.2D + 1.0W 60°	36.0	58	13.37	8.84	4.13	4.49		1	1	8	Bolt Bear
D SAE - 2X2X0.1875	2.75	1.2D + 1.0W 90°	36.0	58	19.89	8.84	6.20	6.73		1	1	44	Bolt Bear

Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type
Bot Tension	43.27	0.9D + 1.0W 60°	120.41	36	4	0.75" A325

Section 7 – 113.3' to 120.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear		Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
				X	Y	Z				ΦR _{nv} (kip)	ΦR _n (kip)					
L PX - 2-1/2" DIA PIPE	-38.72	1.2D + 1.0W N	6.681	100	100	100	86.77	50.00	58.39	0.00	0.00	0	0	66	Member X	
D SAE - 2X2X0.1875	-2.72	1.2D + 1.0W N	11.201	50	50	50	170.57	36.00	7.03	8.84	10.44	1	1	38	Member Z	

Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)		# Bolt	# Hole	Use %	Controls
								Φ _t P _n (kip)	Φ _t P _n (kip)				
L PX - 2-1/2" DIA PIPE	30.14	0.9D + 1.0W 60°	50.0	65	101.25	0.00	0.00			0	0	29	Member
D SAE - 2X2X0.1875	2.67	1.2D + 1.0W 60°	36.0	58	19.89	8.84	6.20	6.73		1	1	43	Bolt Bear

Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type

Section 8 – 120.0' to 140.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear		Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
				X	Y	Z				ΦR _{nv} (kip)	ΦR _n (kip)					
L PST - 2-1/2" DIA PIPE	-33.37	1.2D + 1.0W N	5.008	100	100	100	63.46	50.00	57.12	0.00	0.00	0	0	58	Member X	
H SAE - 2X2X0.125	-0.27	1.2D + 1.0W 90°	6.663	100	100	100	200.89	36.00	3.40	8.84	6.96	1	1	7	Member Z	
D SAE - 1.5X1.5X0.125	-2.32	1.2D + 1.0W 90°	9.788	50	50	50	198.40	36.00	2.62	8.84	6.96	1	1	88	Member Z	

Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)		# Bolt	# Hole	Use %	Controls
								Φ _t P _n (kip)	Φ _t P _n (kip)				
L PST - 2-1/2" DIA PIPE	25.22	0.9D + 1.0W 60°	50.0	65	76.68	0.00	0.00			0	0	32	Member
H SAE - 2X2X0.125	0.33	1.2D + 1.0W 60°	36.0	58	13.37	8.84	4.13	4.49		1	1	7	Bolt Bear
D SAE - 1.5X1.5X0.125	2.36	1.2D + 1.0W 60°	36.0	58	9.45	8.84	4.13	3.13		1	1	75	Blk Shear

Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type
Bot Tension	27.12	0.9D + 1.0W 60°	81.36	33	4	5/8 A325

FORCE/STRESS SUMMARY

Section 9 – 140.0' to 160.00'

Member Compression		Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
L PST - 2" DIA PIPE	-16.03	1.2D + 1.0W N	4	100	100	100	60.99	50.00	36.68	0.00	0.00	0	0	43	Member X	
D SAE - 1.5X1.5X0.125	-1.40	1.2D + 1.0W N	7.762	50	50	50	157.35	36.00	4.16	8.84	6.96	1	1	33	Member Z	

Member Tension		Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls
L PST - 2" DIA PIPE	12.73	0.9D + 1.0W 60°	50.0	65	48.15	0.00	0.00			0	0	26	Member
D SAE - 1.5X1.5X0.125	1.35	1.2D + 1.0W 60°	36.0	58	9.45	8.84	4.13	3.13		1	1	43	Blk Shear

Max Splice Forces		Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type
Bot Tension	13.90	0.9D + 1.0W 60°	81.36	17	4	5/8 A325	

Section 10 – 160.0' to 180.00'

Member Compression		Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
L PST - 2" DIA PIPE	-4.81	1.2D + 1.0W N	4	100	100	100	60.99	50.00	36.68	0.00	0.00	0	0	13	Member X	
H SAE - 2X2X0.125	-0.12	1.2D + 1.0W 90°	6.559	100	100	100	197.75	36.00	3.51	8.84	6.96	1	1	3	Member Z	
D SAE - 1.5X1.5X0.125	-0.71	1.2D + 1.0W N	7.682	50	50	50	155.72	36.00	4.25	8.84	6.96	1	1	16	Member Z	

Member Tension		Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls
L PST - 2" DIA PIPE	3.43	1.2D + 1.0W 60°	50.0	65	48.15	0.00	0.00			0	0	7	Member
H SAE - 2X2X0.125	0.12	1.2D + 1.0W 60°	36.0	58	13.37	8.84	4.13	4.49		1	1	2	Bolt Bear
D SAE - 1.5X1.5X0.125	0.85	1.2D + 1.0W 60°	36.0	58	9.45	8.84	4.13	3.13		1	1	27	Blk Shear

Max Splice Forces		Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type
Bot Tension	4.23	0.9D + 1.0W 60°	81.36	5	4	5/8 A325	

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DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	125.00	0.1874	-0.0312	0.1808	0.1835
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	135.00	0.2204	-0.0369	0.1853	0.189
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	152.00	0.2811	-0.0269	0.2167	0.2183
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	160.00	0.3118	-0.0227	0.2235	0.2246
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	164.00	0.3275	-0.0211	0.2242	0.2251
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	176.00	0.3746	-0.0181	0.2247	0.2254
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	180.00	0.3904	-0.0177	0.2281	0.2288
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	125.00	0.1847	-0.0258	0.1791	0.1808
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	135.00	0.2173	-0.0305	0.1873	0.1892
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	152.00	0.2773	-0.0224	0.2141	0.2153
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	160.00	0.3076	-0.0190	0.2208	0.2216
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	164.00	0.3231	-0.0177	0.2215	0.2222
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	176.00	0.3697	-0.0153	0.2226	0.2231
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	180.00	0.3853	-0.0151	0.2244	0.2249
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	125.00	0.1963	0.0185	0.1937	0.1946
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	135.00	0.2308	0.0244	0.2191	0.2204
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	152.00	0.295	0.0184	0.2289	0.2291
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	160.00	0.3273	0.0153	0.2353	0.2354
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	164.00	0.3438	0.0000	0.2366	0.2366
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	176.00	0.3937	0.0120	0.2400	0.2403
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	180.00	0.4104	0.0118	0.2359	0.2359
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	125.00	0.0354	-0.0016	0.0375	0.0375
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	135.00	0.042	-0.0016	0.0398	0.0399
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	152.00	0.0542	-0.0010	0.0434	0.0434
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	160.00	0.0603	-0.0008	0.0442	0.0442
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	164.00	0.0634	-0.0007	0.0445	0.0445
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	176.00	0.0727	-0.0005	0.0445	0.0445
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	180.00	0.0758	-0.0005	0.0446	0.0446
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	125.00	0.0354	0.0014	0.0375	0.0375
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	135.00	0.042	0.0014	0.0398	0.0398
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	152.00	0.0542	0.0009	0.0433	0.0433
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	160.00	0.0603	0.0007	0.0442	0.0442
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	164.00	0.0634	-0.0006	0.0444	0.0444
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	176.00	0.0727	0.0005	0.0445	0.0445
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	180.00	0.0758	0.0005	0.0446	0.0446
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	125.00	0.0354	0.0014	0.0375	0.0375
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	135.00	0.042	0.0014	0.0398	0.0398
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	152.00	0.0542	0.0009	0.0435	0.0435
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	160.00	0.0603	0.0007	0.0443	0.0443
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	164.00	0.0634	0.0000	0.0442	0.0442
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	176.00	0.0727	0.0005	0.0445	0.0445
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	180.00	0.0758	0.0005	0.0445	0.0445
1.2D + 1.0Ev + 1.0Eh 90° Seismic	125.00	0.0355	-0.0016	0.0380	0.038
1.2D + 1.0Ev + 1.0Eh 90° Seismic	135.00	0.0421	-0.0016	0.0404	0.0404
1.2D + 1.0Ev + 1.0Eh 90° Seismic	152.00	0.0544	-0.0010	0.0436	0.0436
1.2D + 1.0Ev + 1.0Eh 90° Seismic	160.00	0.0605	-0.0008	0.0444	0.0444
1.2D + 1.0Ev + 1.0Eh 90° Seismic	164.00	0.0635	-0.0007	0.0446	0.0446
1.2D + 1.0Ev + 1.0Eh 90° Seismic	176.00	0.0729	-0.0005	0.0447	0.0447
1.2D + 1.0Ev + 1.0Eh 90° Seismic	180.00	0.076	-0.0005	0.0448	0.0448
1.2D + 1.0Ev + 1.0Eh 60° Seismic	125.00	0.0354	0.0014	0.0381	0.0381
1.2D + 1.0Ev + 1.0Eh 60° Seismic	135.00	0.0421	0.0014	0.0404	0.0404
1.2D + 1.0Ev + 1.0Eh 60° Seismic	152.00	0.0543	0.0009	0.0434	0.0434
1.2D + 1.0Ev + 1.0Eh 60° Seismic	160.00	0.0604	0.0007	0.0443	0.0443
1.2D + 1.0Ev + 1.0Eh 60° Seismic	164.00	0.0635	-0.0006	0.0445	0.0445
1.2D + 1.0Ev + 1.0Eh 60° Seismic	176.00	0.0729	0.0005	0.0447	0.0447
1.2D + 1.0Ev + 1.0Eh 60° Seismic	180.00	0.076	0.0005	0.0448	0.0448
1.2D + 1.0Ev + 1.0Eh Normal Seismic	125.00	0.0355	0.0014	0.0378	0.0379
1.2D + 1.0Ev + 1.0Eh Normal Seismic	135.00	0.0422	0.0014	0.0401	0.0402
1.2D + 1.0Ev + 1.0Eh Normal Seismic	152.00	0.0544	0.0009	0.0437	0.0437

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Ev + 1.0Eh Normal Seismic	160.00	0.0605	0.0007	0.0444	0.0444
1.2D + 1.0Ev + 1.0Eh Normal Seismic	164.00	0.0635	0.0000	0.0443	0.0443
1.2D + 1.0Ev + 1.0Eh Normal Seismic	176.00	0.0729	0.0005	0.0447	0.0447
1.2D + 1.0Ev + 1.0Eh Normal Seismic	180.00	0.076	0.0005	0.0447	0.0447
1.2D + 1.0Di + 1.0Wi 90° 48.73 mph Wind with 0.85" Radial Ice	125.00	0.2228	-0.0275	0.2143	0.216
1.2D + 1.0Di + 1.0Wi 90° 48.73 mph Wind with 0.85" Radial Ice	135.00	0.2616	-0.0319	0.2236	0.2255
1.2D + 1.0Di + 1.0Wi 90° 48.73 mph Wind with 0.85" Radial Ice	152.00	0.3337	-0.0234	0.2573	0.2584
1.2D + 1.0Di + 1.0Wi 90° 48.73 mph Wind with 0.85" Radial Ice	160.00	0.3702	-0.0198	0.2655	0.2662
1.2D + 1.0Di + 1.0Wi 90° 48.73 mph Wind with 0.85" Radial Ice	164.00	0.3888	-0.0184	0.2665	0.2671
1.2D + 1.0Di + 1.0Wi 90° 48.73 mph Wind with 0.85" Radial Ice	176.00	0.4449	-0.0158	0.2668	0.2673
1.2D + 1.0Di + 1.0Wi 90° 48.73 mph Wind with 0.85" Radial Ice	180.00	0.4636	-0.0155	0.2731	0.2736
1.2D + 1.0Di + 1.0Wi 60° 48.73 mph Wind with 0.85" Radial Ice	125.00	0.2223	-0.0228	0.2144	0.2152
1.2D + 1.0Di + 1.0Wi 60° 48.73 mph Wind with 0.85" Radial Ice	135.00	0.2609	-0.0264	0.2283	0.2296
1.2D + 1.0Di + 1.0Wi 60° 48.73 mph Wind with 0.85" Radial Ice	152.00	0.333	-0.0196	0.2580	0.2587
1.2D + 1.0Di + 1.0Wi 60° 48.73 mph Wind with 0.85" Radial Ice	160.00	0.3695	-0.0167	0.2664	0.267
1.2D + 1.0Di + 1.0Wi 60° 48.73 mph Wind with 0.85" Radial Ice	164.00	0.3878	-0.0156	0.2673	0.2678
1.2D + 1.0Di + 1.0Wi 60° 48.73 mph Wind with 0.85" Radial Ice	176.00	0.4443	-0.0137	0.2689	0.2692
1.2D + 1.0Di + 1.0Wi 60° 48.73 mph Wind with 0.85" Radial Ice	180.00	0.4631	-0.0135	0.2719	0.2723
1.2D + 1.0Di + 1.0Wi Normal 48.73 mph Wind with 0.85" Radial Ice	125.00	0.2294	0.0121	0.2247	0.225
1.2D + 1.0Di + 1.0Wi Normal 48.73 mph Wind with 0.85" Radial Ice	135.00	0.2695	0.0167	0.2519	0.2524
1.2D + 1.0Di + 1.0Wi Normal 48.73 mph Wind with 0.85" Radial Ice	152.00	0.3445	0.0125	0.2684	0.2684
1.2D + 1.0Di + 1.0Wi Normal 48.73 mph Wind with 0.85" Radial Ice	160.00	0.3826	0.0104	0.2767	0.2767
1.2D + 1.0Di + 1.0Wi Normal 48.73 mph Wind with 0.85" Radial Ice	164.00	0.401	0.0000	0.2779	0.2779
1.2D + 1.0Di + 1.0Wi Normal 48.73 mph Wind with 0.85" Radial Ice	176.00	0.4607	0.0081	0.2830	0.2831
1.2D + 1.0Di + 1.0Wi Normal 48.73 mph Wind with 0.85" Radial Ice	180.00	0.4803	0.0079	0.2761	0.2761
0.9D + 1.0W 90° 114.04 mph Wind with No Ice (Reduced DL)	125.00	0.6806	-0.1242	0.6567	0.6684
0.9D + 1.0W 90° 114.04 mph Wind with No Ice (Reduced DL)	135.00	0.8006	-0.1467	0.6734	0.6892
0.9D + 1.0W 90° 114.04 mph Wind with No Ice (Reduced DL)	152.00	1.0214	-0.1160	0.7884	0.7969
0.9D + 1.0W 90° 114.04 mph Wind with No Ice (Reduced DL)	160.00	1.1331	-0.1028	0.8132	0.8197
0.9D + 1.0W 90° 114.04 mph Wind with No Ice (Reduced DL)	164.00	1.1901	-0.0977	0.8159	0.8217
0.9D + 1.0W 90° 114.04 mph Wind with No Ice (Reduced DL)	176.00	1.3617	-0.0883	0.8178	0.8225
0.9D + 1.0W 90° 114.04 mph Wind with No Ice (Reduced DL)	180.00	1.4189	-0.0872	0.8303	0.8349
0.9D + 1.0W 60° 114.04 mph Wind with No Ice (Reduced DL)	125.00	0.67	0.1096	0.6490	0.6578
0.9D + 1.0W 60° 114.04 mph Wind with No Ice (Reduced DL)	135.00	0.7883	0.1351	0.6814	0.6882
0.9D + 1.0W 60° 114.04 mph Wind with No Ice (Reduced DL)	152.00	1.006	0.1064	0.7772	0.7825
0.9D + 1.0W 60° 114.04 mph Wind with No Ice (Reduced DL)	160.00	1.116	0.0926	0.8006	0.8044
0.9D + 1.0W 60° 114.04 mph Wind with No Ice (Reduced DL)	164.00	1.1722	-0.0746	0.8037	0.8072
0.9D + 1.0W 60° 114.04 mph Wind with No Ice (Reduced DL)	176.00	1.3412	0.0765	0.8071	0.8103
0.9D + 1.0W 60° 114.04 mph Wind with No Ice (Reduced DL)	180.00	1.3977	0.0751	0.8138	0.8168
0.9D + 1.0W Normal 114.04 mph Wind with No Ice (Reduced DL)	125.00	0.7112	0.0761	0.7013	0.7054
0.9D + 1.0W Normal 114.04 mph Wind with No Ice (Reduced DL)	135.00	0.8363	0.0989	0.7903	0.7965
0.9D + 1.0W Normal 114.04 mph Wind with No Ice (Reduced DL)	152.00	1.0683	0.0805	0.8285	0.8296
0.9D + 1.0W Normal 114.04 mph Wind with No Ice (Reduced DL)	160.00	1.1856	0.0707	0.8502	0.8525
0.9D + 1.0W Normal 114.04 mph Wind with No Ice (Reduced DL)	164.00	1.2446	0.0000	0.8555	0.8555
0.9D + 1.0W Normal 114.04 mph Wind with No Ice (Reduced DL)	176.00	1.4254	0.0600	0.8665	0.8685
0.9D + 1.0W Normal 114.04 mph Wind with No Ice (Reduced DL)	180.00	1.4854	0.0592	0.8523	0.8523
1.2D + 1.0W 90° 114.04 mph Wind with No Ice	125.00	0.6819	-0.1242	0.6584	0.67
1.2D + 1.0W 90° 114.04 mph Wind with No Ice	135.00	0.8023	-0.1467	0.6753	0.691
1.2D + 1.0W 90° 114.04 mph Wind with No Ice	152.00	1.0237	-0.1159	0.7905	0.7989
1.2D + 1.0W 90° 114.04 mph Wind with No Ice	160.00	1.1357	-0.1028	0.8153	0.8218
1.2D + 1.0W 90° 114.04 mph Wind with No Ice	164.00	1.1928	-0.0976	0.8180	0.8238
1.2D + 1.0W 90° 114.04 mph Wind with No Ice	176.00	1.3648	-0.0882	0.8199	0.8246
1.2D + 1.0W 90° 114.04 mph Wind with No Ice	180.00	1.4222	-0.0872	0.8324	0.837
1.2D + 1.0W 60° 114.04 mph Wind with No Ice	125.00	0.6715	0.1097	0.6506	0.6597
1.2D + 1.0W 60° 114.04 mph Wind with No Ice	135.00	0.7901	0.1352	0.6832	0.6898
1.2D + 1.0W 60° 114.04 mph Wind with No Ice	152.00	1.0084	0.1064	0.7795	0.7848
1.2D + 1.0W 60° 114.04 mph Wind with No Ice	160.00	1.1188	0.0927	0.8031	0.8068
1.2D + 1.0W 60° 114.04 mph Wind with No Ice	164.00	1.1751	-0.0746	0.8061	0.8095
1.2D + 1.0W 60° 114.04 mph Wind with No Ice	176.00	1.3446	0.0765	0.8095	0.8128

ASSET: 274848, WOLCOTT RD CT
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14529533_C3_04

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0W 60° 114.04 mph Wind with No Ice	180.00	1.4012	0.0751	0.8163	0.8192
1.2D + 1.0W Normal 114.04 mph Wind with No Ice	125.00	0.7128	0.0762	0.7034	0.7075
1.2D + 1.0W Normal 114.04 mph Wind with No Ice	135.00	0.8382	0.0989	0.7929	0.7991
1.2D + 1.0W Normal 114.04 mph Wind with No Ice	152.00	1.071	0.0806	0.8311	0.8323
1.2D + 1.0W Normal 114.04 mph Wind with No Ice	160.00	1.1886	0.0707	0.8530	0.8553
1.2D + 1.0W Normal 114.04 mph Wind with No Ice	164.00	1.2479	0.0000	0.8583	0.8583
1.2D + 1.0W Normal 114.04 mph Wind with No Ice	176.00	1.4293	0.0600	0.8694	0.8715
1.2D + 1.0W Normal 114.04 mph Wind with No Ice	180.00	1.4895	0.0593	0.8552	0.8552

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.2D + 1.0W Normal	12.00	0.00	0	1	0.00	136.41	-14.69
	12.00	0.00	120	1a	4.95	-55.16	-4.60
	12.00	0.00	240	1b	-4.95	-55.16	-4.60
1.2D + 1.0W 60°	12.00	0.00	0	1	-1.48	68.59	-7.09
	12.00	0.00	120	1a	-6.83	68.44	2.36
	12.00	0.00	240	1b	-10.92	-110.94	-6.37
1.2D + 1.0W 90°	12.00	0.00	0	1	-1.72	8.75	-0.49
	12.00	0.00	120	1a	-10.92	113.97	5.40
	12.00	0.00	240	1b	-9.99	-96.63	-4.91
0.9D + 1.0W Normal	12.00	0.00	0	1	0.00	134.05	-14.56
	12.00	0.00	120	1a	5.07	-57.24	-4.67
	12.00	0.00	240	1b	-5.07	-57.24	-4.67
0.9D + 1.0W 60°	12.00	0.00	0	1	-1.48	66.32	-6.95
	12.00	0.00	120	1a	-6.71	66.19	2.29
	12.00	0.00	240	1b	-11.04	-112.94	-6.44
0.9D + 1.0W 90°	12.00	0.00	0	1	-1.73	6.56	-0.35
	12.00	0.00	120	1a	-10.80	111.65	5.33
	12.00	0.00	240	1b	-10.11	-98.65	-4.98
1.2D + 1.0Di + 1.0Wi Normal	12.00	0.00	0	1	0.00	58.78	-4.87
	12.00	0.00	120	1a	1.52	-3.16	-1.43
	12.00	0.00	240	1b	-1.52	-3.16	-1.43
1.2D + 1.0Di + 1.0Wi 60°	12.00	0.00	0	1	-0.48	37.57	-2.49
	12.00	0.00	120	1a	-2.38	37.33	0.85
	12.00	0.00	240	1b	-3.60	-22.44	-2.09
1.2D + 1.0Di + 1.0Wi 90°	12.00	0.00	0	1	-0.56	17.64	-0.27
	12.00	0.00	120	1a	-3.72	52.20	1.85
	12.00	0.00	240	1b	-3.25	-17.37	-1.58
1.2D + 1.0Ev + 1.0Eh Normal	12.00	0.00	0	1	0.00	14.33	-1.10
	12.00	0.00	120	1a	-0.29	5.71	0.13
	12.00	0.00	240	1b	0.29	5.71	0.13
1.2D + 1.0Ev + 1.0Eh 60°	12.00	0.00	0	1	-0.03	11.45	-0.84
	12.00	0.00	120	1a	-0.74	11.45	0.39
	12.00	0.00	240	1b	0.05	2.84	0.03
1.2D + 1.0Ev + 1.0Eh 90°	12.00	0.00	0	1	-0.03	8.58	-0.58
	12.00	0.00	120	1a	-0.90	13.56	0.50
	12.00	0.00	240	1b	0.10	3.61	0.08
0.9D - 1.0Ev + 1.0Eh Normal	12.00	0.00	0	1	0.00	11.68	-0.92
	12.00	0.00	120	1a	-0.14	3.08	0.04
	12.00	0.00	240	1b	0.14	3.08	0.04
0.9D - 1.0Ev + 1.0Eh 60°	12.00	0.00	0	1	-0.03	8.81	-0.66
	12.00	0.00	120	1a	-0.59	8.81	0.30
	12.00	0.00	240	1b	-0.10	0.21	-0.06
0.9D - 1.0Ev + 1.0Eh 90°	12.00	0.00	0	1	-0.03	5.94	-0.40
	12.00	0.00	120	1a	-0.74	10.91	0.41
	12.00	0.00	240	1b	-0.05	0.98	-0.01
1.0D + 1.0W Service Normal	12.00	0.00	0	1	0.00	42.44	-4.38
	12.00	0.00	120	1a	1.09	-10.35	-1.12
	12.00	0.00	240	1b	-1.09	-10.35	-1.12
1.0D + 1.0W Service 60°	12.00	0.00	0	1	-0.41	23.76	-2.28
	12.00	0.00	120	1a	-2.16	23.68	0.82
	12.00	0.00	240	1b	-2.75	-25.70	-1.60
1.0D + 1.0W Service 90°	12.00	0.00	0	1	-0.48	7.29	-0.46
	12.00	0.00	120	1a	-3.29	36.21	1.65
	12.00	0.00	240	1b	-2.49	-21.76	-1.19

ASSET: 274848, WOLCOTT RD CT
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14529533_C3_04

MAXIMUM REACTIONS SUMMARY

	<u>Individual</u>		<u>Global (DL+WL+IL)</u>		<u>Global (DL+WL)</u>
Max Uplift:	112.94 (kip)	Moment Ice:	743.18 (kip-ft)	Moment:	2298.55 (kip-ft)
Max Down:	136.41 (kip)	Total Down Ice:	52.46 (kip)	Total Down:	26.09 (kip)
Max Shear:	14.69 (kip)	Total Shear Ice:	7.73 (kip)	Total Shear:	23.88 (kip)

1.2D + 1.0W Normal

EXHIBIT 4



Colliers Engineering & Design,
Architecture, Landscape Architecture,
Surveying, CT P.C
1055 Washington Boulevard
Stamford, CT 06901
203.324.0800
peter.albano@collierseng.com

Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10213280
Colliers Engineering & Design Project #: 21781139A (Rev. 1)

November 15, 2023

Site Information

Site ID: 5000384285-VZW / WOLCOTT N
Site Name: WOLCOTT N
Carrier Name: Verizon Wireless
Address: 1192 Wolcott Rd
Wolcott, Connecticut 06716
New Haven County
Latitude: 41.61803611°
Longitude: -72.97124444°

Structure Information

Tower Type: 180-Ft Self Support
Mount Type: 13.00-Ft T-Frame Mount

FUZE ID # 16272066

Analysis Results

T-Frame: 87.0% **Pass w/ Modifications***

***Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.**

***Contractor PMI Requirements:

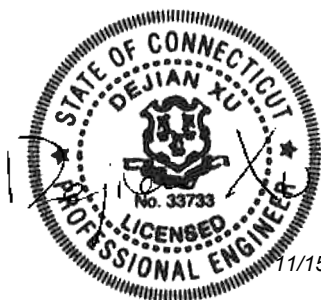
Included at the end of this MA report

Available & Submitted via portal at <https://pmi.vzwsmart.com>

For additional questions and support, please reach out to:

pmisupport@colliersengineering.com

Report Prepared By: Conner Hoge



11/15/2023

Executive Summary:

The objective of this report is to summarize the analysis results of the antenna support mount including the proposed modifications at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards.

This analysis is inclusive of the mount structure only and does not address the structural capacity of the supporting structure. This mounting frame was not analyzed as an anchor attachment point for fall protection. All climbing activities are required to have a fall protection plan completed by a competent person.

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS, Site ID: 325179, dated August 1, 2023
Mount Mapping Report	RKS Design & Engineering, LLC Site ID: ATAC: 274848, dated November 28, 2020
Construction Drawings	A.T. Engineering Service, PLLC Job #: OAA761901, dated November 13, 2020
Previous Mount Analysis	Colliers Engineering & Design, Project #: 20777521A, Rev. 1, dated October 26, 2023
Mount Modification Drawings	Colliers Engineering & Design, Project #: 20777521A, Rev. 1, dated November 15, 2023

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code (CSBC), Effective October 1, 2022
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 120 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: B Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.963
Seismic Parameters:	S_s : 0.191 g S_1 : 0.054 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Load, L_v : 250 lbs. Maintenance Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V20)

Final Loading Configuration:

The following equipment has been considered for the analysis of the mounts:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
134.25	135.00	1	Andrew	LNx-6514DS-VTM	Retained
		2	Andrew	LNx-8513DS-VTM	
		6	JMA Wireless	MX06FRO660-03	Added
		3	Samsung	MT6413-77A	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4461d-13A	
		1	Raycap	RVZDC-6627-PF-48	

The recent mount mapping did not report existing OVP units. However, it is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required.

Model Number	Ports	AKA
DB-B1-6C-12AB-0Z	6	OVP-6
RVZDC-6627-PF-48	12	OVP-12

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Colliers Engineering & Design and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Colliers Engineering & Design to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.

Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325
8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Colliers Engineering & Design.

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	87.0 %	Pass
Antenna Pipe	47.8 %	Pass
Standoff Horizontal	36.0 %	Pass
Standoff Bracing	10.1 %	Pass
Mast Pipe	16.6 %	Pass
Tie-Back	27.4 %	Pass
Modification Brace Angle	14.3 %	Pass
Mount Connection	14.5 %	Pass

Structure Rating – (Controlling Utilization of all Components)	87.0%
---	--------------

Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	15.7	5.5	23.7	13.5
0.5	21.5	7.8	32.8	19.2
1	27.1	9.8	41.8	24.5

Notes:

- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 1 sector(s).
- Ka factors included in (EPA)a calculations

Requirements:

The existing mounts will be **SUFFICIENT** for the final loading configuration (attachment 2) **after the modifications detailed in attachment 3 are successfully completed.**

- Contractor shall install proposed OVP directly to the existing mast pipe in Alpha sector.
- Contractor shall install (1) pipe mount reinforcement kit (Part #: Site Pro 1 - R5-REINF or EOR approved equal) to the existing mount-to-tower connection in each sector.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

1. **Contractor Required PMI Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Modification Drawings
4. Mount Photos
5. Mount Mapping Report (for reference only)
6. Analysis Calculations

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

Electronic pdf version of this can be downloaded at <https://pmi.vzwsmart.com>

For additional questions and support, please reach out to pmisupport@colliersengineering.com

PSLC #: 5000384285

SMART Project #: 10213280

Fuze Project ID: 16272066

Purpose – to upload the proper documentation to the SMART Tool in order to allow the SMART Tool engineering vendor to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the modification was completed in accordance with the modification drawings.
- Contractor shall relay any data that can impact the performance of the mount or the mount modification, this includes safety issues.

Base Requirements:

- If installation of the modification will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide “as built drawings” showing contractor’s name, preparer’s signature, and date. Any deviations from the drawings (proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the post-modification passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo shall be time and date stamped.
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: <https://pmi.vzwsmart.com>

Photo Requirements:

- Photos taken at ground level
 - Photo of Gate Signs showing the tower owner, site name, and number.
 - Overall tower structure after installation of the modifications.
 - Photos of the mount after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed
- Photos taken at Mount Elevation
 - Photos showing the safety climb wire rope above and below the mount prior to modification.
 - Photos showing the climbing facility and safety climb if present.

- Photos showing each individual sector after installation of modifications. Each entire sector must be in one photo to show the interconnection of members.
 - These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.
- Photos of each installed modification per the modification drawings; pictures shall also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
- Photos showing the distances (relative distance between collars) of the installed modifications from the appropriate reference locations shown in the modification drawings.
- Photos showing the installed modifications onto the tower (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, an elevation measurement shall be provided before the elevation change.

Material Certification:

- Materials utilized must be as per specification on the drawings or the equivalent as validated by the SMART Tool vendor.
 - If the materials are as specified on the drawings
 - The contractor shall provide the packing list, or the materials certifications for the materials utilized to perform the mount modification
 - Commscope, Metrosite, Perfect Vision, Sabre, and Site Pro have all agreed to support Verizon vendors with the necessary material certifications
 - If seeking permission to use an equivalent
 - It is required that the SMART Tool engineering vendor approval of such is included in the contractor submission package. There may be an additional charge for approval if the equivalent submission doesn't meet specifications as prescribed in the drawings.

All hardware has been properly installed, and the existing hardware was inspected.

The material utilized was as specified on the SMART Tool engineering vendor Mount Modification Drawings and included in the material certification folder is a packing list or invoice for these materials.

OR

The material utilized was approved by a SMART Tool engineering vendor as an "equivalent" and this approval is included as part of the contractor submission.

Antenna & Equipment Placement and Geometry Confirmation:

The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

- The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations.

Comments:

Was the mount modification completed in conjunction with the equipment change / installation?

- Yes No

Special Instructions / Validation as required from the MA or Mod Drawings:

Issue:

1. Contractor shall install proposed OVP directly to the existing mast pipe in Alpha sector.
 2. Contractor shall install (1) pipe mount reinforcement kit (Part #: Site Pro 1 - R5-REINF or EOR approved equal) to the existing mount-to-tower connection in each sector.

Response:

Special Instruction Confirmation:

- The contractor has read and acknowledges the above special instructions.

Comments:

Contractor certifies that the climbing facility / safety climb was not damaged prior to starting work:

- Yes No

Contractor certifies no new damage created during the current installation:

- Yes No

Contractor to certify the condition of the safety climb and verify no damage when leaving the site:

- Safety Climb in Good Condition Safety Climb Damaged

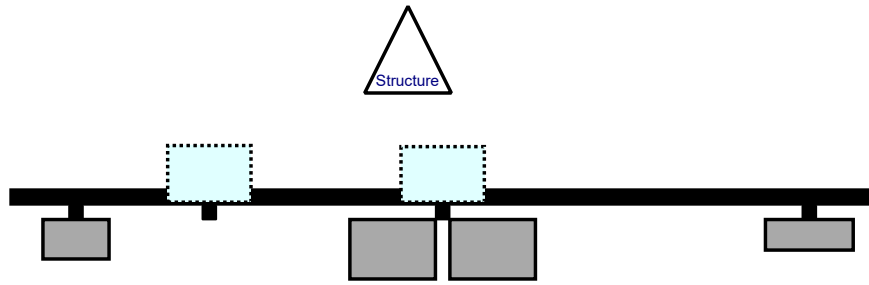
Comments:

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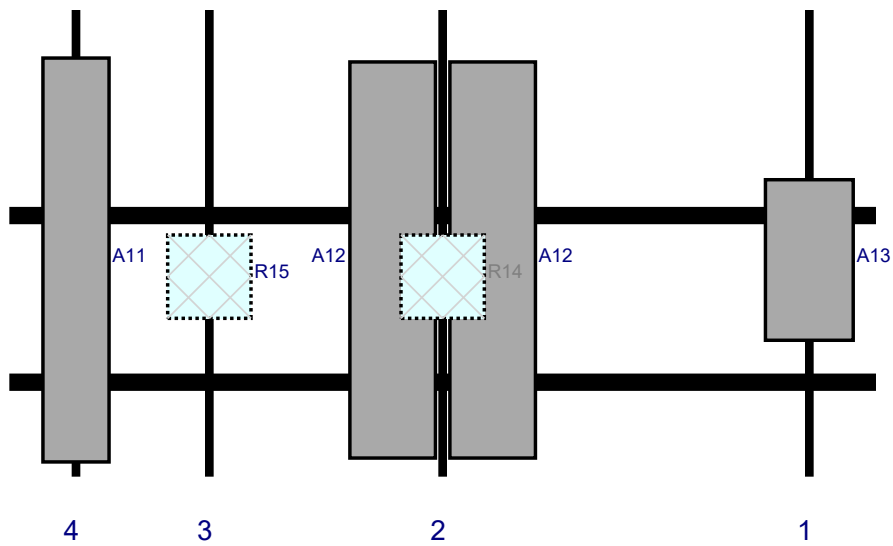
Certifying Individual:

Company:	
Employee Name:	
Contact Phone:	
Email:	
Date:	

Plan View

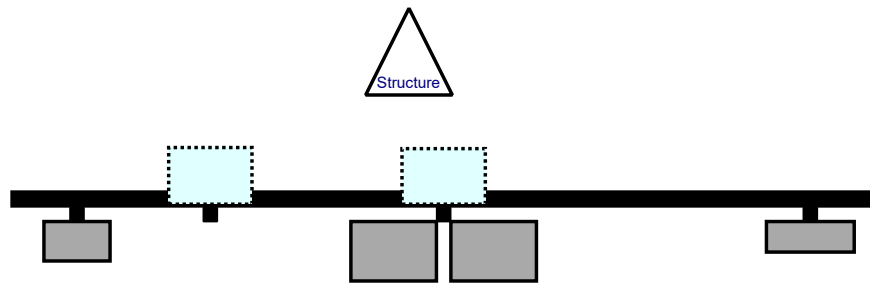


Front View - Looking at Structure

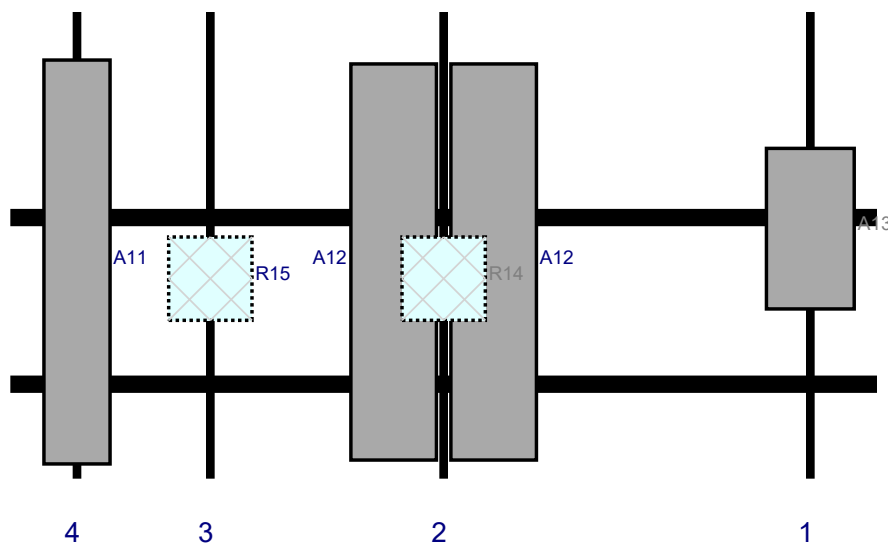


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A13	MT6413-77A	28.9	15.8	144	1	a	Front	45	0	Added	
A12	MX06FRO660-03	71.3	15.4	78	2	a	Front	45	9	Added	
A12	MX06FRO660-03	71.3	15.4	78	2	b	Front	45	-9	Added	
R14	RF4439d-25A	15	15	78	2	a	Behind	48	0	Added	
R15	RF4461d-13A	15	15	36	3	a	Behind	48	0	Added	
A11	LNx-8513DS-VTM	72.7	11.9	12	4	a	Front	45	0	Retained	11/28/2020
M22	RVZDC-6627-PF-48	29.5	16.5			Member				Added	

Plan View

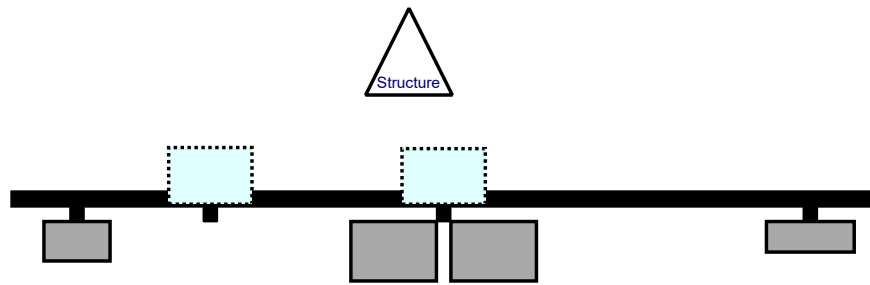


Front View - Looking at Structure

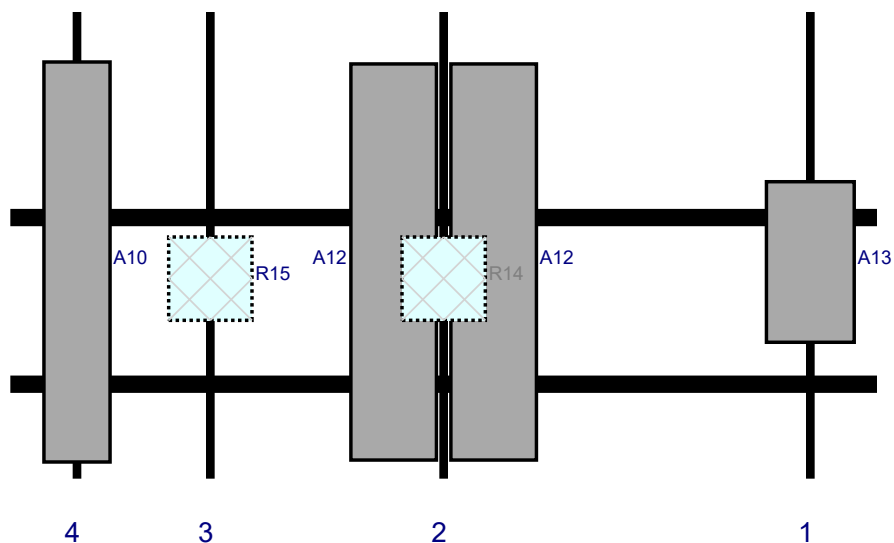


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A13	MT6413-77A	28.9	15.8	144	1	a	Front	39	0	Added	
A12	MX06FRO660-03	71.3	15.4	78	2	a	Front	45	9	Added	
A12	MX06FRO660-03	71.3	15.4	78	2	b	Front	45	-9	Added	
R14	RF4439d-25A	15	15	78	2	a	Behind	48	0	Added	
R15	RF4461d-13A	15	15	36	3	a	Behind	48	0	Added	
A11	LNx-8513DS-VTM	72.7	11.9	12	4	a	Front	45	0	Retained	11/28/2020

Plan View



Front View - Looking at Structure



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A12	MX06FRO660-03	71.3	15.4	78	2	b	Front	45	-9	Added	
R14	RF4439d-25A	15	15	78	2	a	Behind	48	0	Added	
R15	RF4461d-13A	15	15	36	3	a	Behind	48	0	Added	
A10	LNx-6514DS-VTM	72	11.9	12	4	a	Front	45	0	Retained	11/28/2020



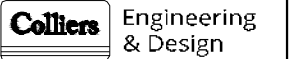
MOUNT MODIFICATION DRAWINGS
EXISTING 13.00' T-FRAME

TOWER OWNER: ATC
TOWER OWNER SITE NUMBER: 274848

CARRIER SITE NAME: WOLCOTT N CT
CARRIER SITE NUMBER: 467187
FUZE ID: 16272066

1192 WOLCOTT RD.
WOLCOTT, CT 06716
NEW HAVEN COUNTY

LATITUDE: 41.61803611° N
LONGITUDE: 72.97124444° W



MASER CONSULTING C.T. C.O.A. #: JPC.0000131
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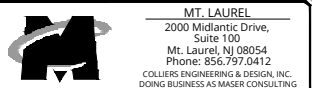
SCALE: AS SHOWN JOB NUMBER: 21781139A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
1	11/15/2023	ISSUED FOR CONSTRUCTION	CDH	DX
0	10/12/2021	ISSUED FOR CONSTRUCTION	MNC	PMA

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

SITE NAME:

WOLCOTT N CT
467187
1192 WOLCOTT RD.
WOLCOTT, CT 06716
NEW HAVEN COUNTY



SHEET TITLE: TITLE SHEET

SHEET NUMBER: ST-1

DESIGN CRITERIA
WIND LOADS BASIC WIND SPEED (3 SECOND GUST), V = 120 MPH EXPOSURE CATEGORY B TOPOGRAPHIC CATEGORY I MEAN BASE ELEVATION (AMSL) = 1040.71'
ICE LOADS ICE WIND SPEED (3 SECOND GUST), V = 50 MPH ICE THICKNESS = 1.00 IN
SEISMIC LOADS SEISMIC DESIGN CATEGORY B SHORT TERM MCRER GROUND MOTION, S _s = .191 LONG TERM MCRER GROUND MOTION, S _s = .054

PROJECT INFORMATION
APPLICANT/LESSEE COMPANY: VERIZON WIRELESS CLIENT REPRESENTATIVE COMPANY: VERIZON WIRELESS PROJECT MANAGER COMPANY: COLLIERS ENGINEERING & DESIGN CONTACT: PETER ALBANO PHONE: 856-797-0412 E-MAIL: PETER.ALBANO@COLLIERSENGINEERING.COM
CONTRACTOR PMI REQUIREMENTS PMI LOCATION: HTTPS://PMI.VZWSMART.COM SMART TOOL PROJECT #: 10106546 VZW LOCATION CODE (PSLC): 467187 ANALYSIS DATE: 10/26/2023 PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

SHEET INDEX
SHEET DESCRIPTION
ST-1 TITLE SHEET
SBOM-1 BILL OF MATERIALS
SGN-1 GENERAL NOTES
SCF-1 CLIMBING FACILITY DETAIL
SS-1 MODIFICATION DETAILS
SS-2 MOUNT PHOTOS
SPECIFICATION SHEETS

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BILL OF MATERIALS

SECTION 1 - VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)	
3	VZWSMART	VZWSMART-SFK3	V-BRACING KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-I	122	366	

SECTION 2 - OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
3	SITE PRO 1	R5-REINF	R5 UNIVERSAL PIPE MOUNT REINFORCMENT KIT	OR EOR APPROVED EQUAL, CONTACT MASER CONSULTING FOR APPROVAL OF SUBSTITUTION.	34	102
TOTAL:						468

NOTES:

1. THE MANUFACTURERS LISTED ARE THE APPROVED VENDORS FOR THE VZW MOUNT KITS. EACH MANUFACTURER WILL BE AWARE OF WHICH KITS HAVE BEEN THROUGH THE VZW APPROVAL PROCESS AND THEY ARE IN TURN APPROVED TO SELL. PLEASE NOTE THAT THE MATERIAL UTILIZED ON THE MOUNT MODIFICATIONS WILL BE REVIEWED AS A PART OF THE DESKTOP PMI COMPLETED BY THE SMART TOOL VENDOR. IT WILL BE REQUIRED THAT THE VZW KITS SPECIFIED ARE UTILIZED IN THE MODIFICATIONS.
2. ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESOLUTIONS.COM
SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM



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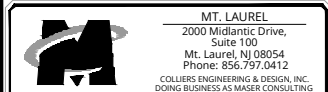


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FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE: AS SHOWN	JOB NUMBER: 21781139A
1 11/15/2023	ISSUED FOR CONSTRUCTION CDH DX
0 10/12/2021	ISSUED FOR CONSTRUCTION MNC PMA
REV	DATE DESCRIPTION DRAWN BY CHECKED BY

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

SITE NAME:
WOLCOTT N CT
467187
1192 WOLCOTT RD.
WOLCOTT, CT 06716
NEW HAVEN COUNTY



BILL OF MATERIALS

SHEET NUMBER: SBOM-1

PROJECT NOTES

- SEE MODIFICATION NOTES
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUT DOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
- NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
- THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).

GENERAL NOTES

- THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
- CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
- IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
- ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSII/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSII/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
- WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE

CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.

- ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSII/TIA-322.
- CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOTEXTILE, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
- CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
- DO NOT SCALE DRAWINGS.
- DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
- ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
- THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

STRUCTURAL STEEL

- DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
 - SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
 - AISC CODE OF STANDARD PRACTICE
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:

CHANNELS, ANGLES, PLATES, ETC.	ASTM A36 (GR 36)
STEEL PIPE	ASTM A53 (GR 35)
BOLTS	ASTM A325
NUTS	ASTM A563
LOCK WASHERS	LOCKING STRUCTURAL GRADE

- ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
- PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - SUBMIT SHOP DRAWINGS TO
PETER.ALBANO@COLLIERSENGINEERING.COM
 - PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
- DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
- CONTRACTOR SHALL PROTECT CUT ENDS OF ALL FIELD-CUT STEEL WITH TWO (2) COATS OF COLD GALVANIZATION (ZINGA OR ZINC COTE).
- ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
- WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
- FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.

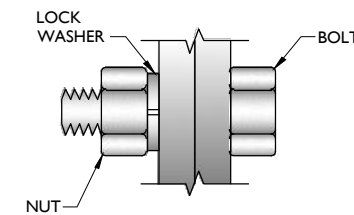
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
- ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

WELDING NOTES

- ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.0 (LATEST EDITION). THIS SHALL INCLUDE A CERTIFIED WELD INSPECTION (CWI) FOR ACCEPTANCE OR REJECTION OF ALL WELDING OPERATIONS, PRE, DURING, AND POST INSTALLATION, USING THE ACCEPTANCE CRITERIA OF AWS D1.1.
- CONTRACTOR IS RESPONSIBLE FOR COMMISSIONING A THIRD PARTY CERTIFIED WELD INSPECTOR (CWI) THROUGHOUT THE ENTIRETY OF THE PROJECT. A PASSING CWI REPORT SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
- THE CERTIFIED WELD INSPECTOR SHALL INDICATE, IN A WRITTEN CWI REPORT, THAT ALL WELDING OPERATIONS PRE, DURING, AND POST INSTALLATION WERE CONDUCTED IN ACCORDANCE WITH AWS D1.1 WITH PHOTOGRAPHS AND DOCUMENTATION SUPPORTING THE ACCEPTANCE OR REJECTION OF ALL WELDING. ALL CWI WELD INSPECTION DOCUMENTATION AND PHOTOS SHALL BE SUBMITTED DURING THE PMI.
- IN CASES WHERE A WELD IS SPECIFIED BETWEEN TWO MEMBERS IN WHICH THERE IS A GAP IN BETWEEN, THE WELD IS TO BE BUILT-UP SUCH THAT THE SIZE OF WELD ON THE MEMBER IS EQUAL TO THAT SHOWN IN THE DRAWINGS.
- OXY FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED. SPECIFICALLY, NO TORCH CUTTING IS PERMITTED ON SITE. ALL HOLES SHALL BE CUT WITH A GRINDER.
- CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING A GALVANIZED SURFACE.
- CONTRACTOR SHALL HAVE A FIRE PROTECTION PLAN IN PLACE THAT CONFORMS WITH ALL OSHA, ANSII/ASSP A10.48, ANSII Z49.1, AND LOCAL JURISDICTIONAL REQUIREMENTS.

BOLT SCHEDULE (IN.)				
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 11/16	7/8	1 1/2
5/8	11/16	11/16 x 7/8	1 1/8	1 7/8
3/4	13/16	13/16 x 1	1 1/4	2 1/4
7/8	15/16	15/16 x 1 1/8	1 1/2	2 5/8
1	1 1/16	1 1/16 x 1 5/16	1 3/4	3

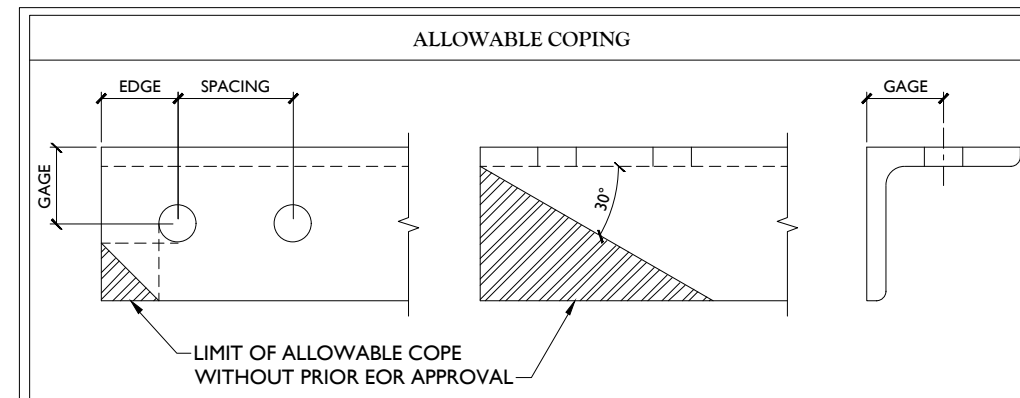
WORKABLE GAGES (IN.)	
LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



TYP. BOLT ASSEMBLY

NOTES:

- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
- THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
- SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS
- MATCH EXISTING GAGES WHEN APPLICABLE. UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.



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Call before you dig
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE:	AS SHOWN	JOB NUMBER:	21781139A
1	11/15/2023	ISSUED FOR CONSTRUCTION	CDH DX
0	10/12/2021	ISSUED FOR CONSTRUCTION	MNC PMA
REV	DATE	DESCRIPTION	DRAWN BY CHECKED BY

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

SITE NAME:
WOLCOTT N CT
467187
1192 WOLCOTT RD.
WOLCOTT, CT 06716
NEW HAVEN COUNTY

MT. LAUREL
2000 Midlantic Drive,
Suite 100
Mt. Laurel, NJ 08054
Phone: 856.797.0412
COLLIERS ENGINEERING & DESIGN, INC.
DOING BUSINESS AS MASER CONSULTING

SHEET TITLE:
MODIFICATION NOTES

SHEET NUMBER:
SGN-I



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SCALE: AS SHOWN JOB NUMBER: 21781139A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
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0	10/12/2021	ISSUED FOR CONSTRUCTION	MNC	PMA

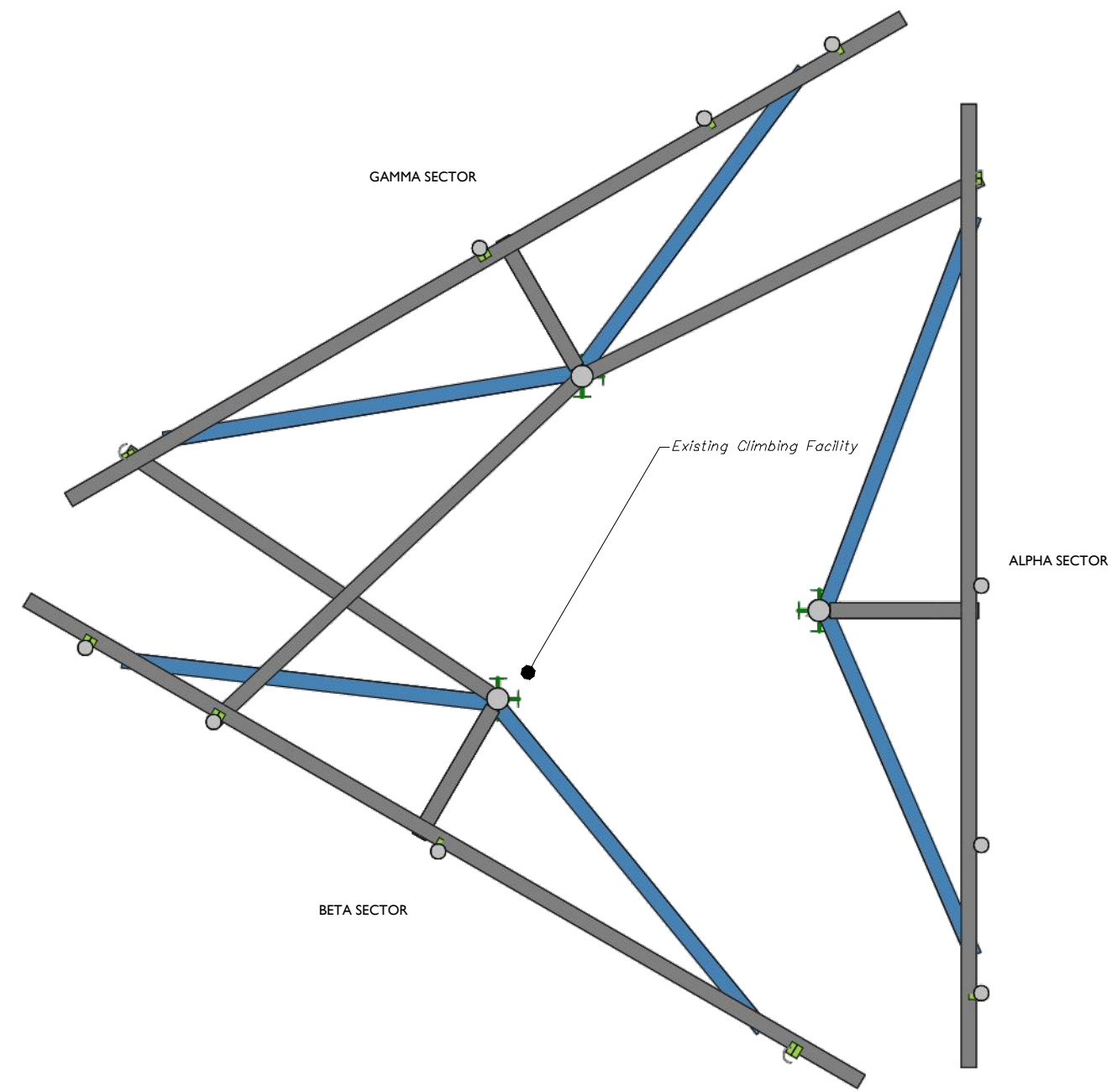
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DOING BUSINESS AS MASER CONSULTING

SHEET TITLE:
CLIMBING FACILITY DETAIL

SHEET NUMBER:
SCF-1



1 CLIMBING FACILITY LOCATION
SCALE: N.T.S.

STRUCTURAL NOTES:

- PER THE MOUNT MAPPING COMPLETED BY RKS DESIGN & ENGINEERING, LLC ON 11/28/2020, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (133'-0") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
- INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

Existing Safety Climb
Existing Climbing Facility



CLIMBING FACILITY PHOTO

LEGEND:

- PROPOSED
- RELOCATED
- EXISTING

MOUNT MODIFICATION SCHEDULE				
NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1	133'-0"	3	V-BRACING KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1 OR EOR APPROVED EQUAL, CONTACT MASER CONSULTING FOR APPROVAL OF SUBSTITUTION.
2		3	R5 UNIVERSAL PIPE MOUNT REINFORCEMENT KIT	
<p>NOTES: MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.</p>				



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0	10/12/2021	ISSUED FOR CONSTRUCTION	MNC	PMA

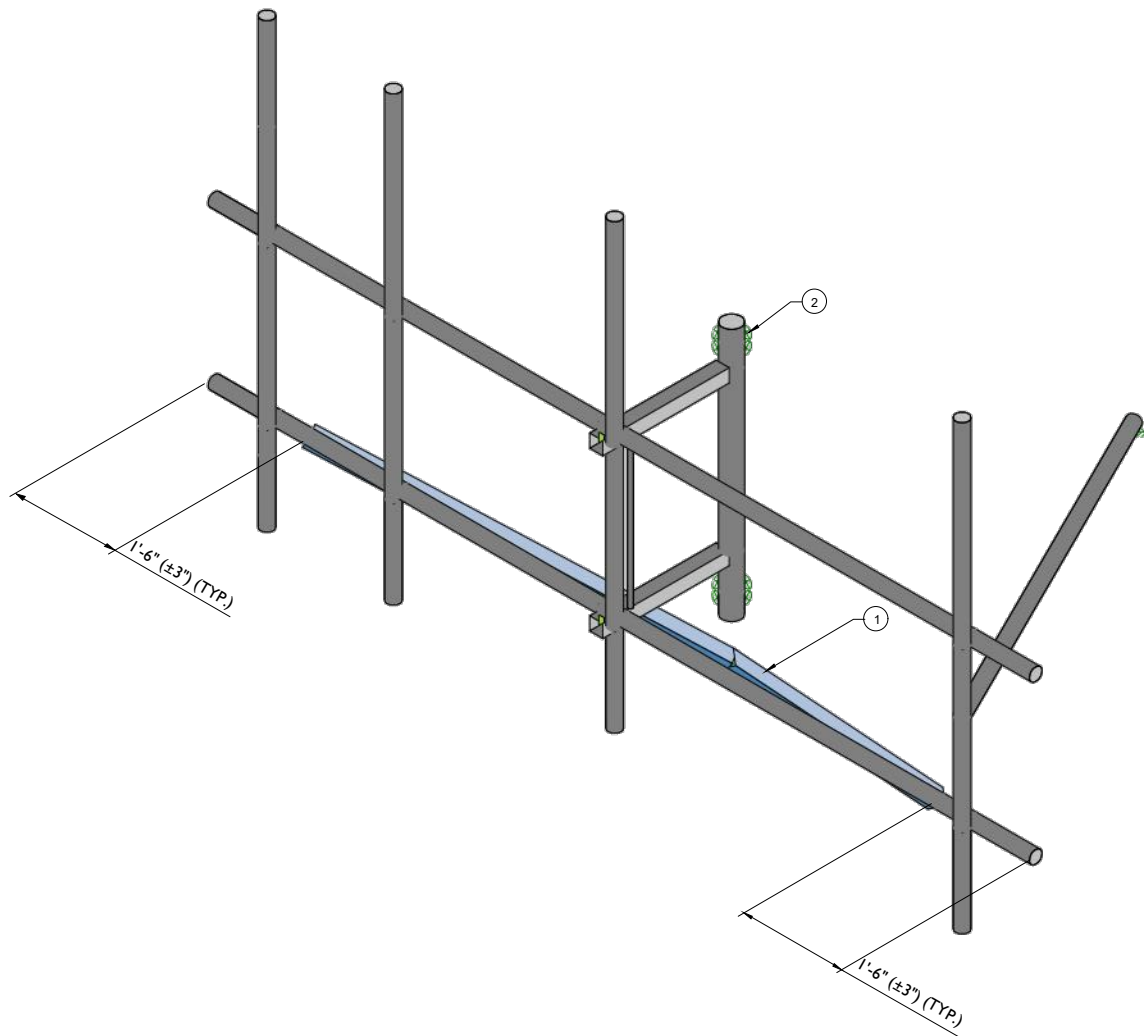
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467187
 1192 WOLCOTT RD.
 WOLCOTT, CT 06716
 NEW HAVEN COUNTY

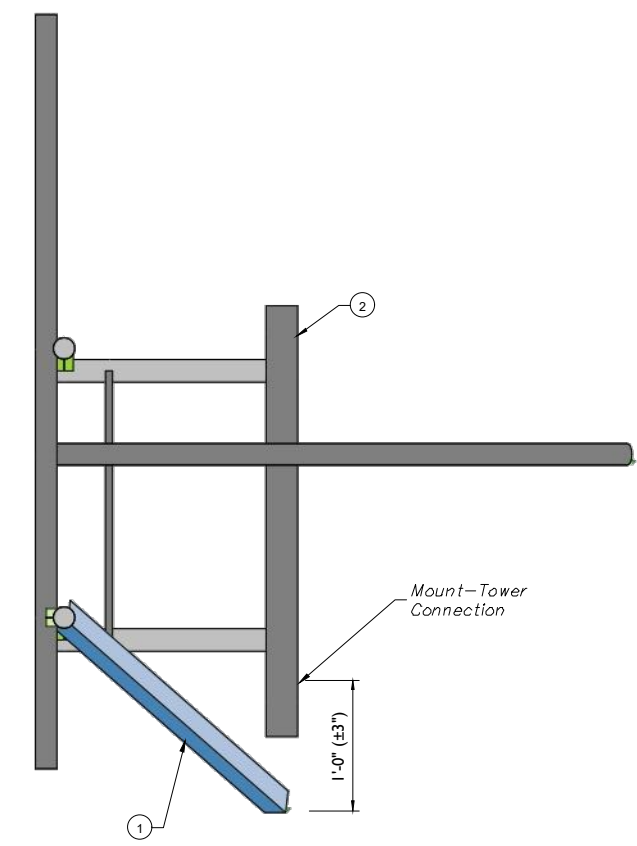
MT. LAUREL
 2000 Midlantic Drive,
 Suite 100
 Mt. Laurel, NJ 08054
 Phone: 856.797.0412
COLLIERS ENGINEERING & DESIGN, INC.
 DOING BUSINESS AS MASER CONSULTING

SHEET TITLE:
MODIFICATION DETAILS

SHEET NUMBER:
SS-1



1 PROPOSED ISOMETRIC VIEW
 SCALE : N.T.S.



2 PROPOSED SIDE ELEVATION VIEW (TYP. ALL SECTORS)
 SCALE : N.T.S.



MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4



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0	10/12/2021	ISSUED FOR CONSTRUCTION	MNC	PMA

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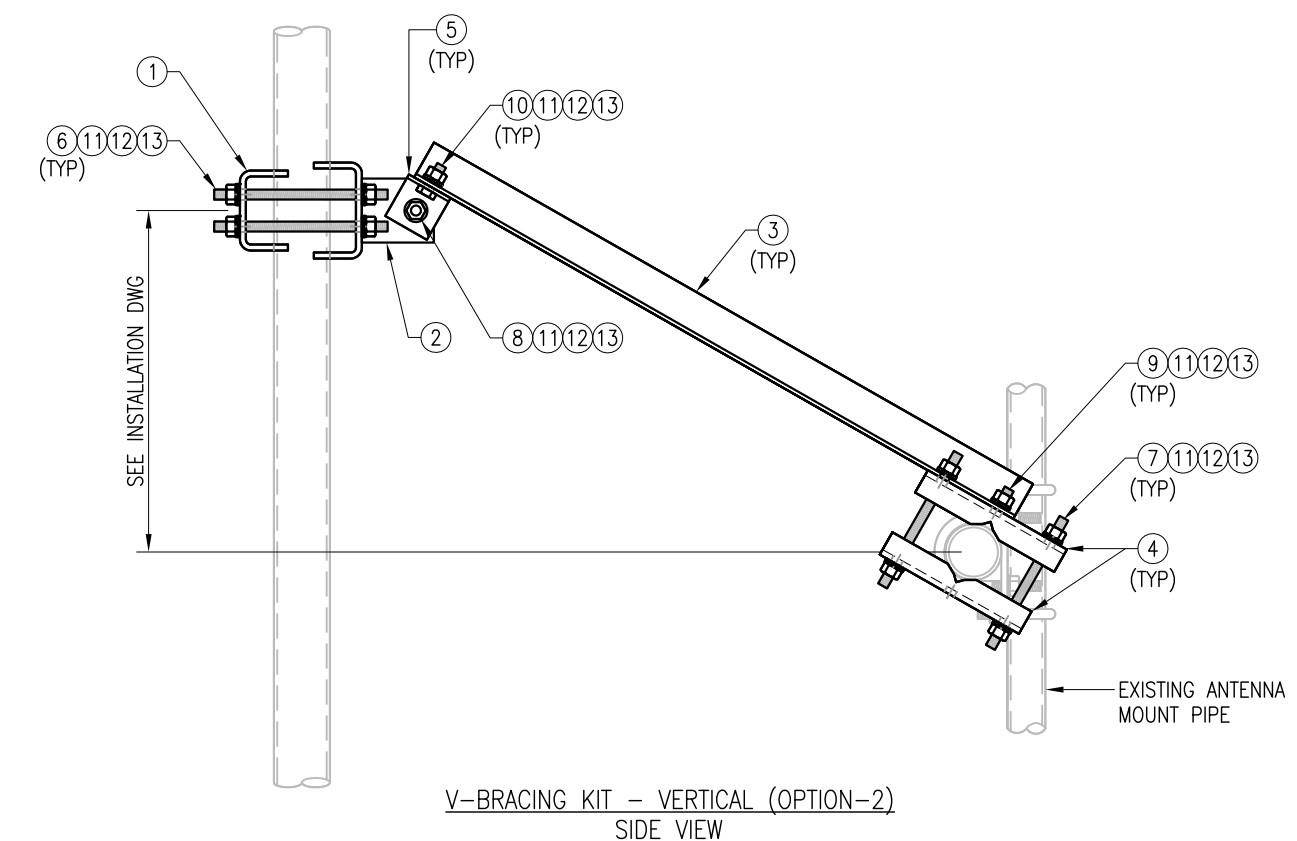
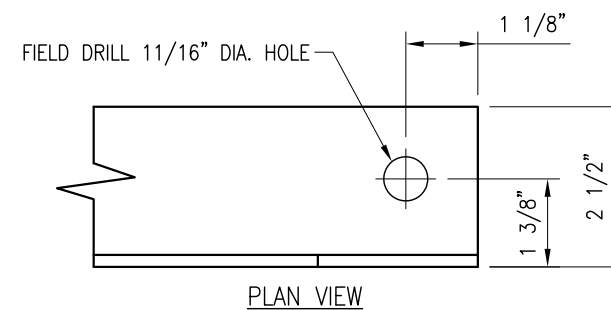
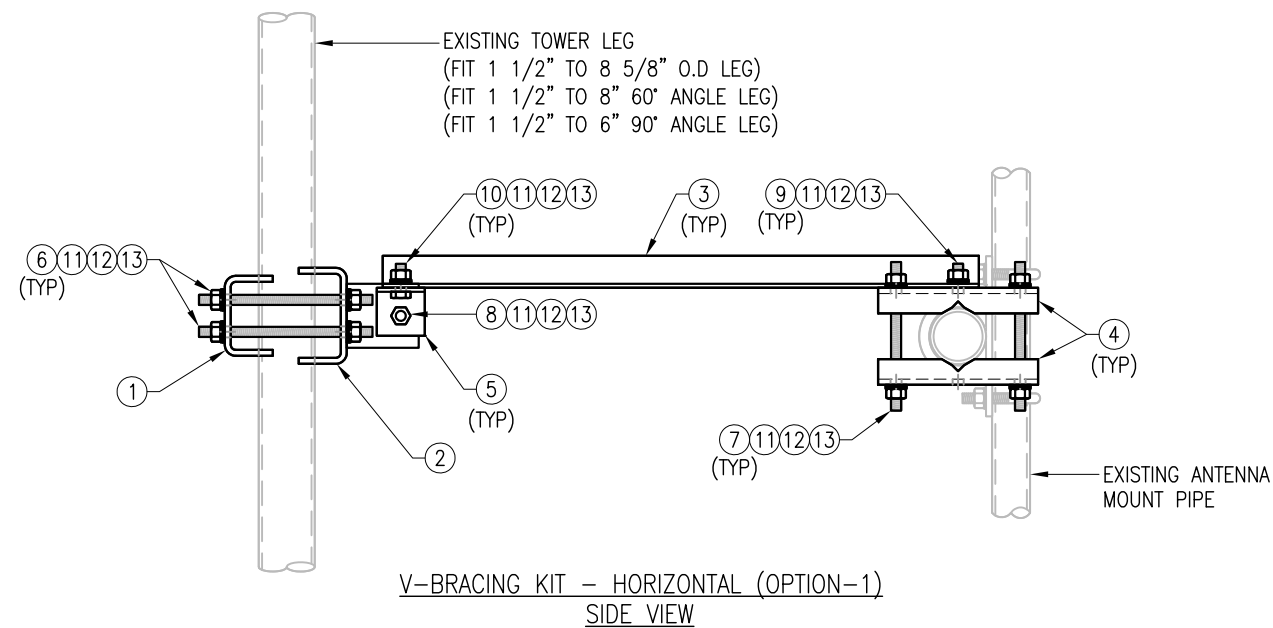
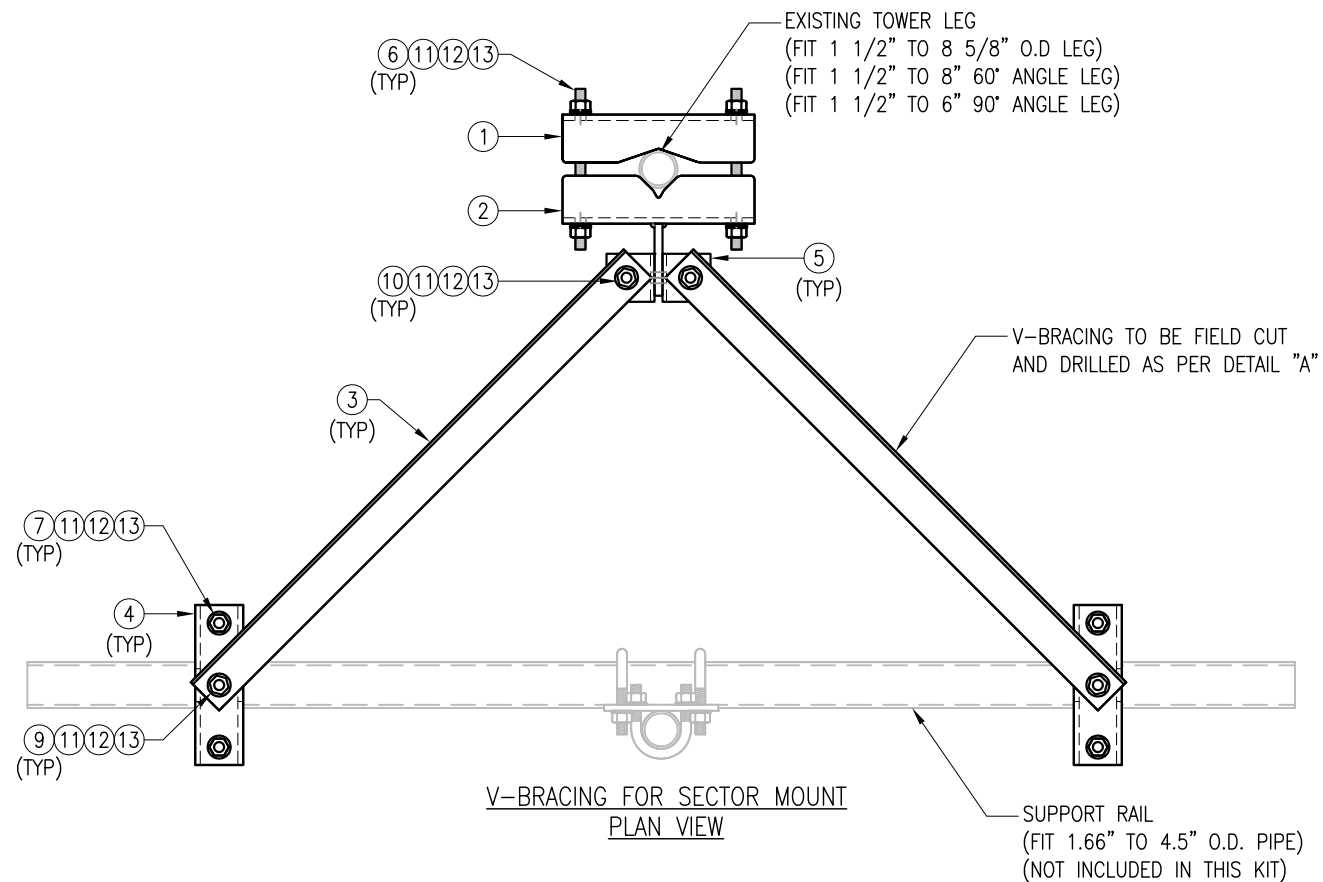
**WOLCOTT N CT
467187**

**1192 WOLCOTT RD.
WOLCOTT, CT 06716
NEW HAVEN COUNTY**

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2000 Midlantic Drive,
Suite 100
Mt. Laurel, NJ 08054
Phone: 856.797.0412
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SHEET TITLE:
MOUNT PHOTOS

SHEET NUMBER:
SS-2



VZSMART-SFK3 (V-BRACING KIT)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	BP9625-12	PL 3/8" X 9 5/8" X 1'-0" A36 BENT PLATE	VBSM-F1	12
2	1	BRKW-VBSM	WELDMENT BRACKET	VBSM-F3	16
3	2	L252525-8	L 2 1/2" X 2 1/2" X 1/4" X 8'-0" A36	VBSM-F5	67
4	4	BP6875-10	PL 3/8" X 6 7/8" X 10" A36 BENT PLATE	VBSM-F2	20
5	2	AL-333	L 3" X 3" X 1/4" X 3" A36	VBSM-F2	3
6	4	---	THREADED ROD 5/8" DIA. X 1'-6" F1554-36 HDG	---	---
7	4	---	THREADED ROD 5/8" DIA. X 10" F1554-36 HDG	---	---
8	1	---	BOLT 5/8" X 2 1/4" A325	---	---
9	2	---	BOLT 5/8" X 2" A325	---	---
10	2	---	BOLT 5/8" X 1 3/4" A325	---	---
11	21	FW-625	5/8" HDG USS FLAT WASHER	---	2
12	21	LW-625	5/8" HDG LOCK WASHER	---	0
13	21	NUT-625	5/8" HDG HEX NUT	---	2
GALVANIZED WT					122

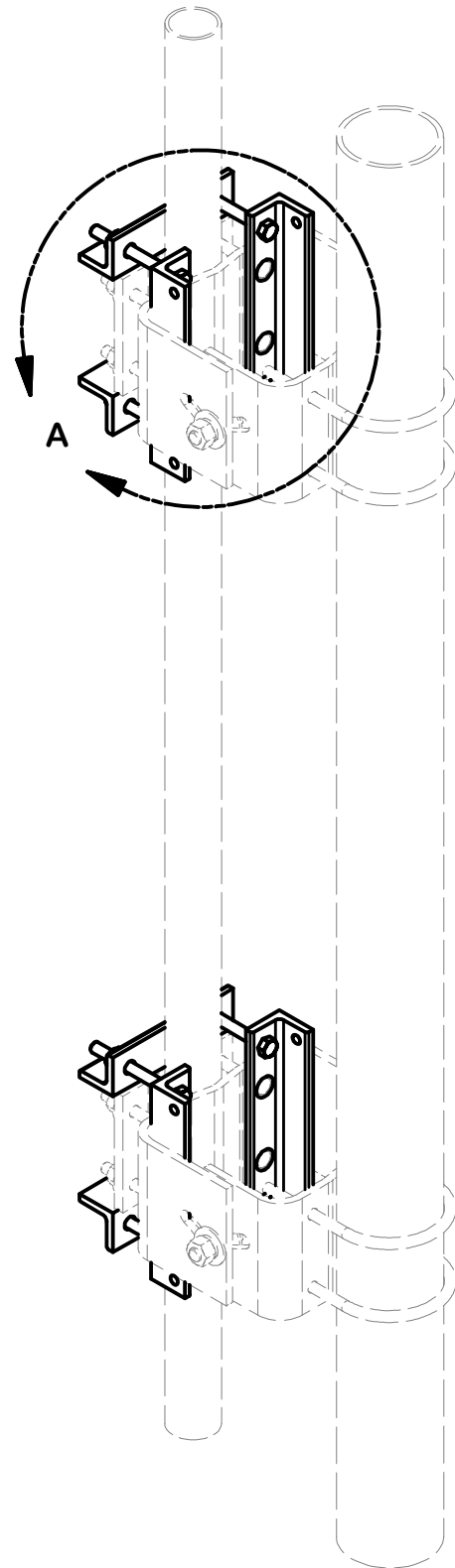
NOTES:
 1. HOT-DIPPED GALVANIZED PER ASTM A123.

DRAWN BY: H.R. CHECKED BY: HMA

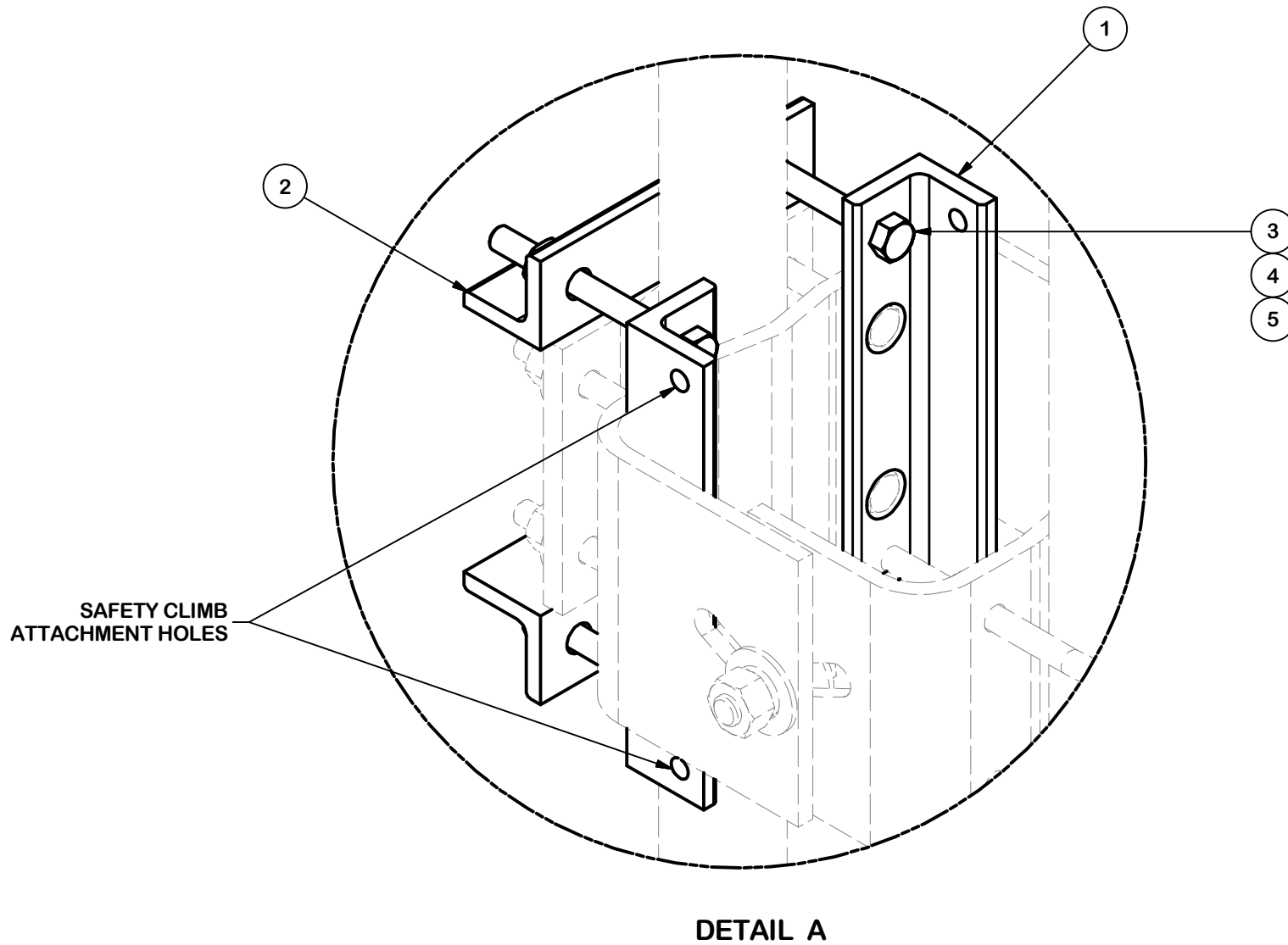
REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	H.R.	05/08/20

SHEET TITLE:
 VZSMART-SFK3
 V-BRACING KIT

SHEET NUMBER: VZSMART-SFK3
 REV #: 0



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	4	X-R5-FRA1	REINFORCEMENT ANGLE	10 in	3.84	15.36
2	4	X-R5-RFA2	REINFORCEMENT ANGLE	7 1/8 in	2.86	11.45
3	8	G1208	1/2" x 8" HDG HEX BOLT GR5 FULL THREAD	8 in	0.49	3.94
3	8	G1205	1/2" x 5" HDG HEX BOLT GR5 FULL THREAD	5 in	0.33	2.61
4	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
5	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
					TOTAL WT. #	34.04



TOLERANCE NOTES

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

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

DESCRIPTION
**R5 UNIVERSAL PIPE MOUNT
 REINFORCEMENT KIT**

CPD NO.	DRAWN BY JFS	4/22/2020	ENG. APPROVAL 5/6/2020
CLASS 81	SUB 02	DRAWING USAGE CUSTOMER	CHECKED BY BMC
			5/6/2020



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

Engineering
 Support Team:
 1-888-753-7446

PART NO. R5-REINF	PAGE 1 OF 1
DWG. NO. R5-REINF	





Antenna Mount Mapping Form (PATENT PENDING)

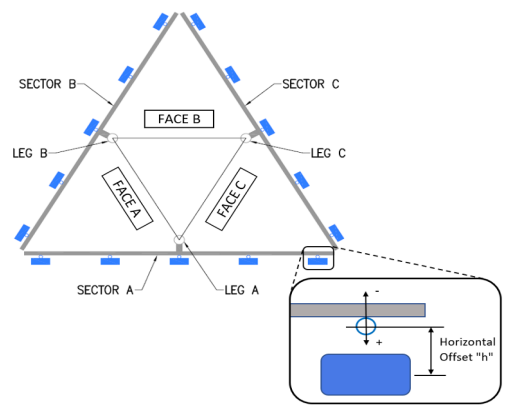
FCC #
UNKNOWN

Tower Owner:	ATC	Mapping Date:	11-28-2020
Site Name:	ATC: WOLCOTT RD CT	Tower Type:	Self Support
Site Number or ID:	ATC: 274848	Tower Height (Ft.):	UNKNOWN
Mapping Contractor:	RKS Design & Engineering LLC.	Mount Elevation (Ft.):	132

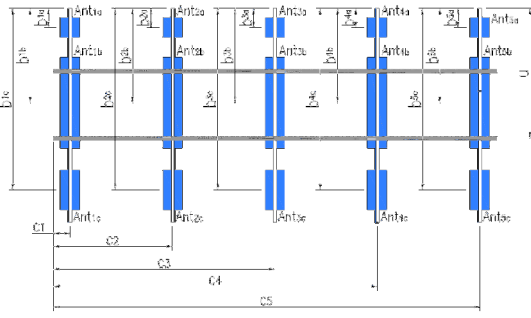
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Please insert the sketches of the antenna mount from the "Sketches" tab with dimensions and members here.

Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "U"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "U"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE 2.375"Ø X 0.15" X 84" Long	67.00	12.00	C1	PIPE 2.375"Ø X 0.15" X 84" Long	67.00	12.00
A2	PIPE 2.375"Ø X 0.15" X 84" Long	67.00	78.00	C2	PIPE 2.375"Ø X 0.15" X 84" Long	67.00	78.00
A3	PIPE 2.375"Ø X 0.15" X 84" Long	67.00	120.00	C3	PIPE 2.375"Ø X 0.15" X 84" Long	67.00	120.00
A4	PIPE 2.375"Ø X 0.15" X 84" Long	67.00	144.00	C4	PIPE 2.375"Ø X 0.15" X 84" Long	67.00	144.00
A5				C5			
A6				C6			
B1	PIPE 2.375"Ø X 0.15" X 84" Long	67.00	12.00	D1			
B2	PIPE 2.375"Ø X 0.15" X 84" Long	67.00	78.00	D2			
B3	PIPE 2.375"Ø X 0.15" X 84" Long	67.00	120.00	D3			
B4	PIPE 2.375"Ø X 0.15" X 84" Long	67.00	144.00	D4			
B5				D5			
B6				D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details.:							15.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.):							
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.):							
Please enter additional information or comments below.							
Tower Face Width at Mount Elev. (ft.):		4.5		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):		2	



Ants. Items	Enter antenna model. If not labeled, enter "Unknown".					Mounting Locations [Units are inches and degrees]			Photos of antennas	
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b _{1a} , b _{2a} , b _{3a} , b _{1b} ,..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant _{1a}										
Ant _{1b}	UNKNOWN:ANTENNA	7.00	2.50	71.00		132.375	47.50	7.75	30.00	18
Ant _{1c}										
Ant _{2a}										
Ant _{2b}	BXA-70063/6CFEDING	11.00	5.00	71.00		132.708	43.50	10.50	30.00	18
Ant _{2c}										
Ant _{3a}										
Ant _{3b}	UNKNOWN:ANTENNA	8.00	4.00	48.00		133.833	30.00	8.75	30.00	18
Ant _{3c}										
Ant _{4a}										
Ant _{4b}	UNKNOWN:ANTENNA	11.00	6.00	72.00		132.667	44.00	10.50	30.00	18
Ant _{4c}										
Ant _{5a}										
Ant _{5b}										
Ant _{5c}										
Ant on Standoff										
Ant on Standoff	UNKNOWN	6.00	2.00	4.00			37.00	1.50		40, 42, 43
Ant on Tower	9442 RRH2X40-AWS	10.50	6.50	24.50			44.00	4.25		41
Ant on Tower										



Antenna Layout (Looking Out From Tower)

Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector			Sector B																		
Sector A:	30.00	Deg	Leg A:	30.00	Deg	Ant _{1a}																		
Sector B:	150.00	Deg	Leg B:	150.00	Deg	Ant _{1b}	UNKNOWN:ANTENNA	7.00	2.50	71.00		132.375	47.50	7.75	150.00	21								
Sector C:	250.00	Deg	Leg C:	270.00	Deg	Ant _{1c}																		
Sector D:		Deg	Leg D:		Deg	Ant _{2a}																		
Climbing Facility Information						Ant _{2b}	BXA-70063/6CFEDING	11.00	5.00	71.00		132.708	43.50	10.50	150.00	21								
Location:	30.00	Deg	Sector B			Ant _{2c}																		
Climbing Facility	Corrosion Type:	Good condition.				Ant _{3a}																		
	Access:	Climbing path was unobstructed.				Ant _{3b}	UNKNOWN:ANTENNA	8.00	4.00	48.00		133.833	30.00	8.75	150.00	21								
	Condition:	Good condition.				Ant _{3c}																		
						Ant _{4a}																		
						Ant _{4b}	UNKNOWN:ANTENNA	11.00	6.00	72.00		132.667	44.00	10.50	150.00	21								
						Ant _{4c}																		
						Ant _{5a}																		
						Ant _{5b}																		
						Ant _{5c}																		
						Ant on Standoff																		
						Ant on Standoff	UNKNOWN					6.00	2.00	4.00				37.00	1.50		85			
						Ant on Tower	9442 RRH2X40-AWS					10.50	6.50	24.50				44.00	4.25		86			
						Ant on Tower	UNKNOWN: COVP					15.00	10.00	25.00				43.25	6.00		87			
						Sector C																		
						Ant _{1a}																		
						Ant _{1b}	UNKNOWN:ANTENNA	7.00	2.50	71.00		132.375	47.50	7.75	250.00	24								
						Ant _{1c}																		
						Ant _{2a}																		
						Ant _{2b}	BXA-70063/6CFEDING	11.00	5.00	71.00		132.708	43.50	10.50	250.00	24								
						Ant _{2c}																		
						Ant _{3a}																		
						Ant _{3b}	UNKNOWN:ANTENNA	8.00	4.00	48.00		133.833	30.00	8.75	250.00	24								
						Ant _{3c}																		
						Ant _{4a}																		
						Ant _{4b}	UNKNOWN:ANTENNA	11.00	6.00	72.00		132.667	44.00	10.50	250.00	24								
						Ant _{4c}																		
						Ant _{5a}																		
						Ant _{5b}																		
						Ant _{5c}																		
						Ant on Standoff																		
						Ant on Standoff	UNKNOWN					6.00	2.00	4.00		37.00	1.50		89					
						Ant on Tower	9442 RRH2X40-AWS					10.50	6.50	24.50		44.00	4.25		89					
						Ant on Tower																		
						Sector D																		
						Ant _{1a}																		
						Ant _{1b}																		
						Ant _{1c}																		
						Ant _{2a}																		
						Ant _{2b}																		
						Ant _{2c}																		
						Ant _{3a}																		
						Ant _{3b}																		
						Ant _{3c}																		
						Ant _{4a}																		
						Ant _{4b}																		
						Ant _{4c}																		
						Ant _{5a}																		
						Ant _{5b}																		
						Ant _{5c}																		
						Ant on Standoff																		
						Ant on Standoff																		
						Ant on Tower																		
						Ant on Tower																		

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #

1	TOTAL COAX : (13)FH 1-5/8 , (1) 1.55"Ø	
2		
3		
4		
5		
6		
7		
8		

Mapping Notes

1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.)
2. If the thickness of the existing pipes or tubing can't be obtained from a general tool (such as Caliper), please use an ultrasonic measurement tool (thickness gauge) to measure the thickness.
3. Please create all required detail sketches of the mounts and insert them into the "Sketches" tab.
4. Please measure and enter the bolt sizes and types under the Members Box in the spreadsheet of the mount type.
5. Take and label the photos of the tower, mounts, connections, antennas and all measurements. Minimum 50 photos are required.
6. Please measure and report the size and length of all existing antenna mounting pipes.
7. Please measure and report the antenna information for all sectors.
8. Don't delete or rearrange any sheet or contents of any sheet from this mapping form.

Standard Conditions

1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.



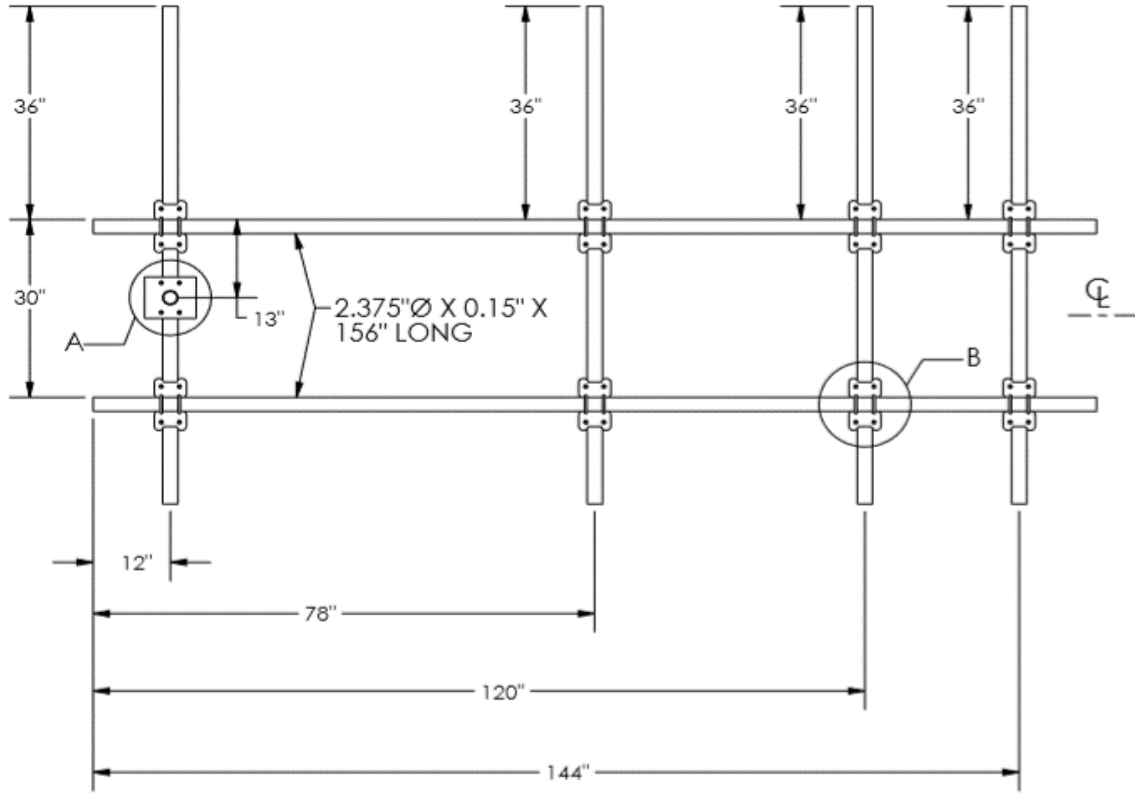
Antenna Mount Mapping Form (PATENT PENDING)

FCC #
UNKNOWN

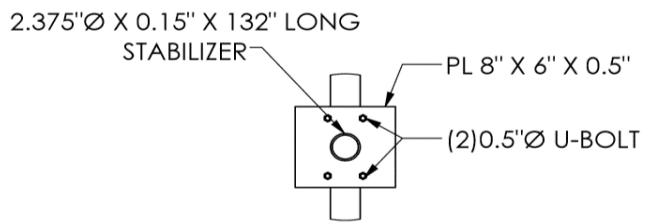
Tower Owner:	ATC	Mapping Date:	11-28-2020
Site Name:	ATC: WOLCOTT RD CT	Tower Type:	Self Support
Site Number or ID:	ATC: 274848	Tower Height (Ft.):	UNKNOWN
Mapping Contractor:	RKS Design & Engineering LLC.	Mount Elevation (Ft.):	132

This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety requirements that may apply. TES is not warranting the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements.

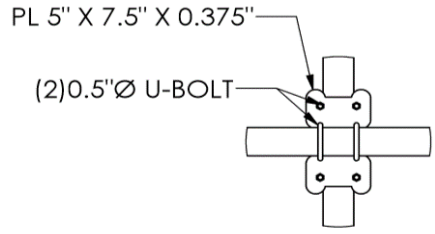
Please Insert Sketches of the Antenna Mount



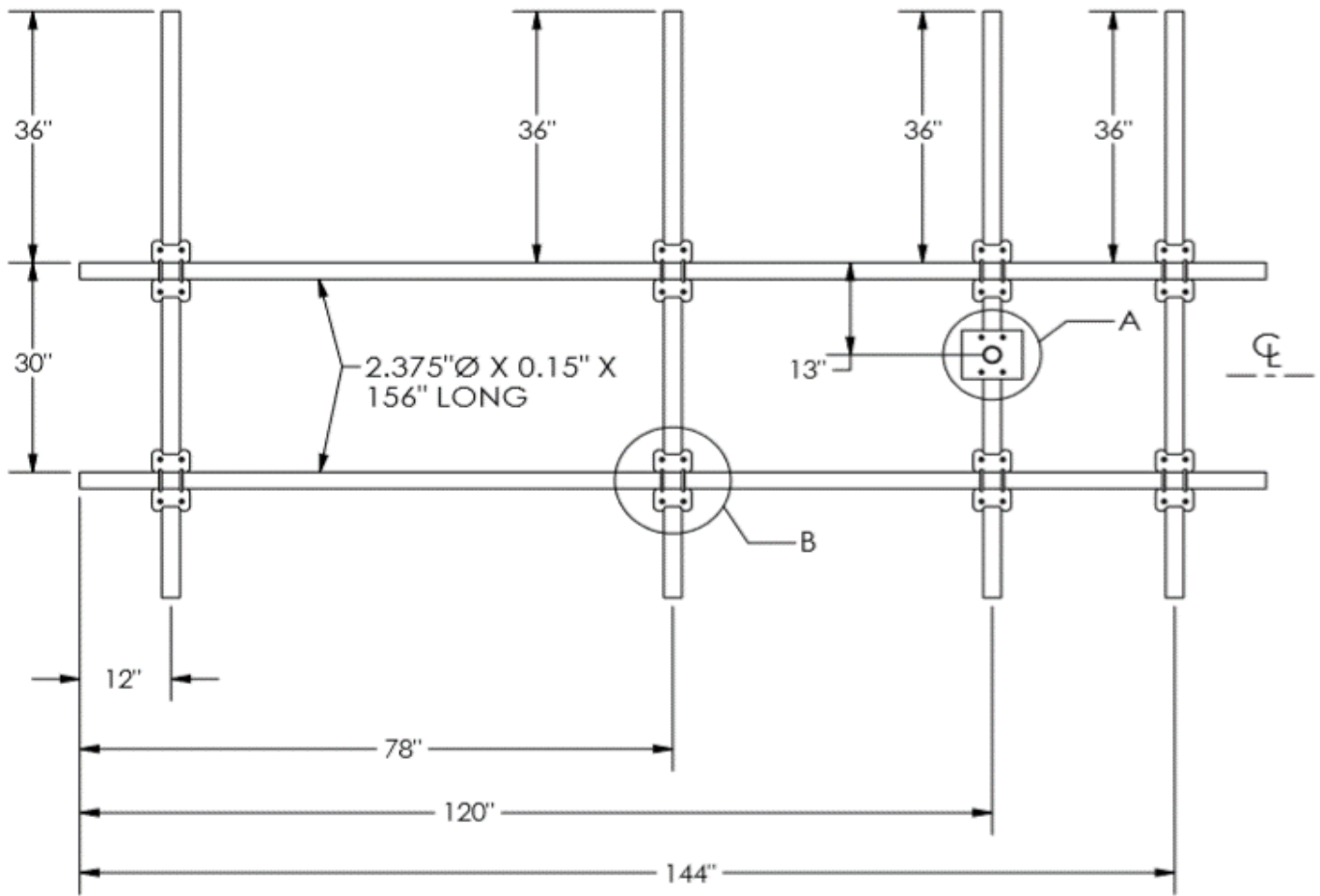
SECTOR: A & C



DETAIL A

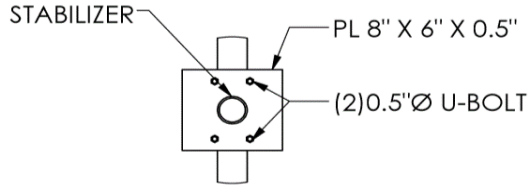


DETAIL B



SECTOR: B

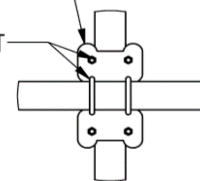
2.375"Ø X 0.15" X 132" LONG
STABILIZER



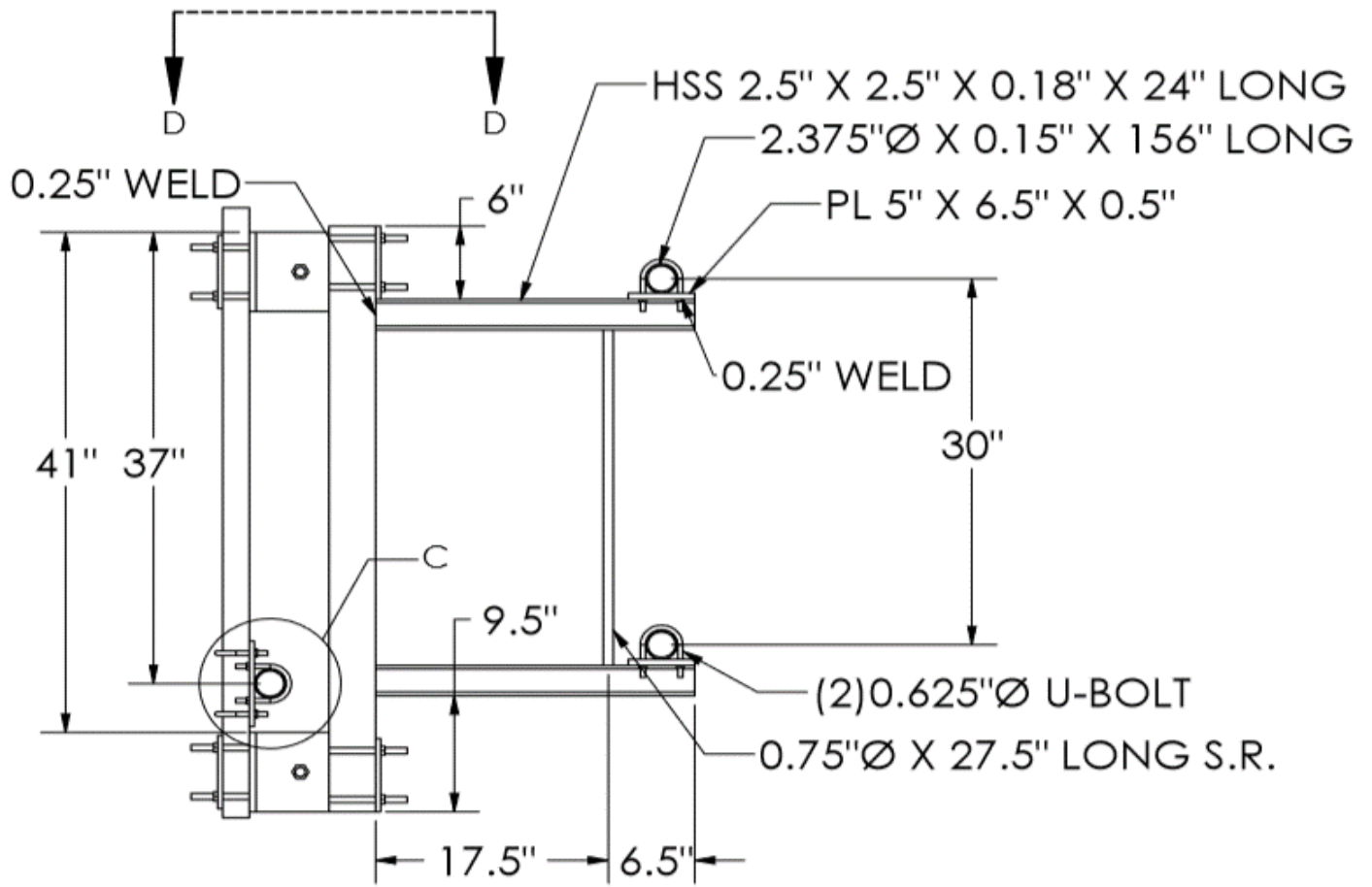
DETAIL A

PL 5" X 7.5" X 0.375"

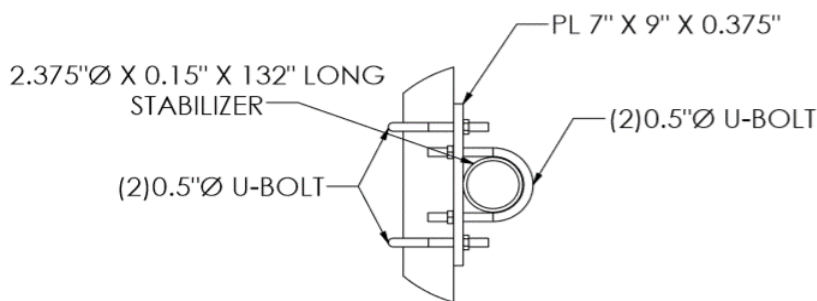
(2)0.5"Ø U-BOLT



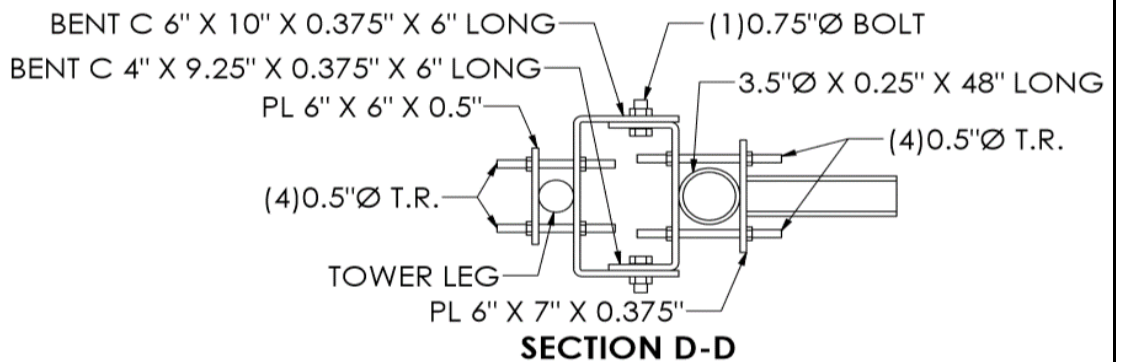
DETAIL B

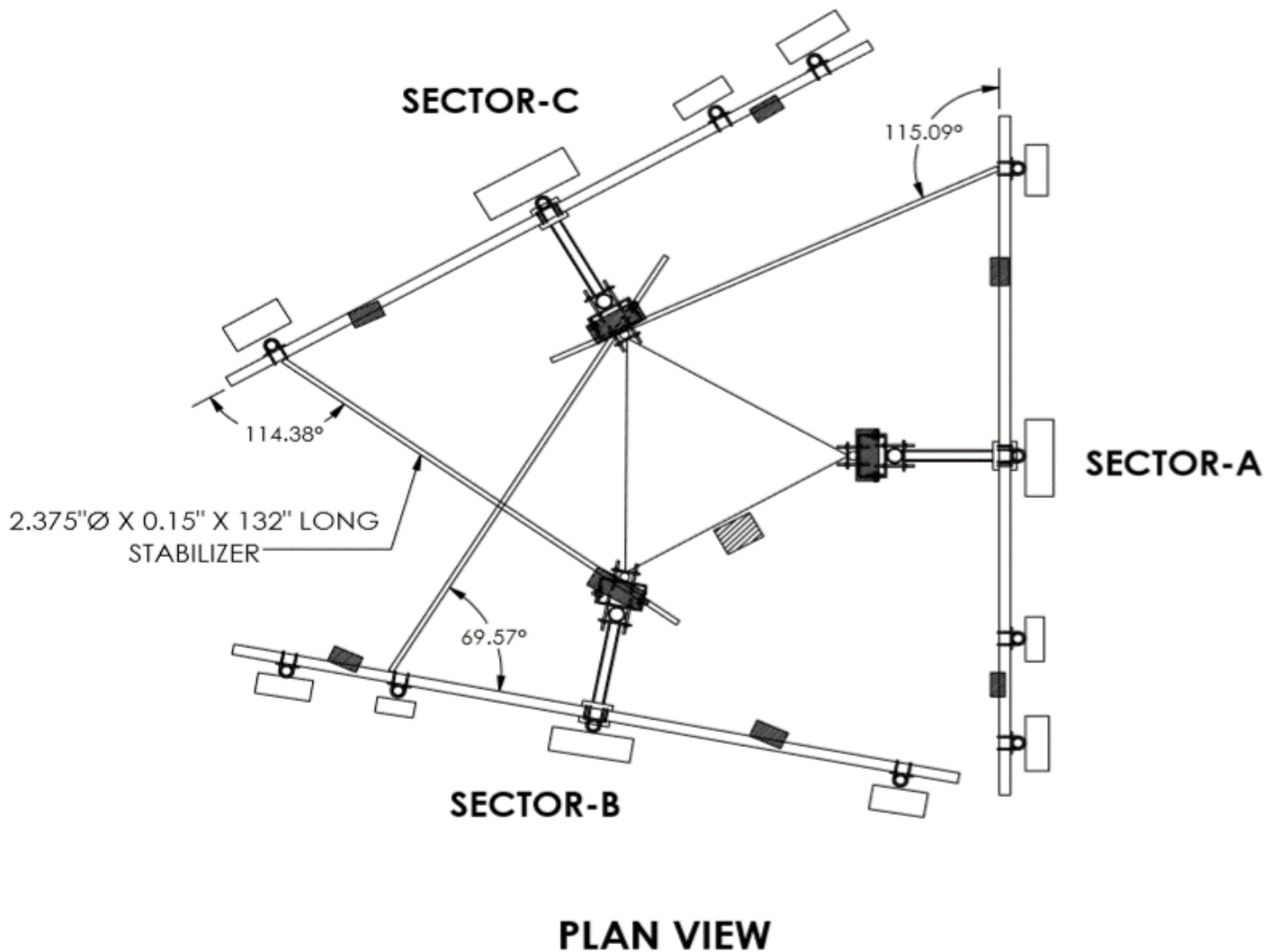


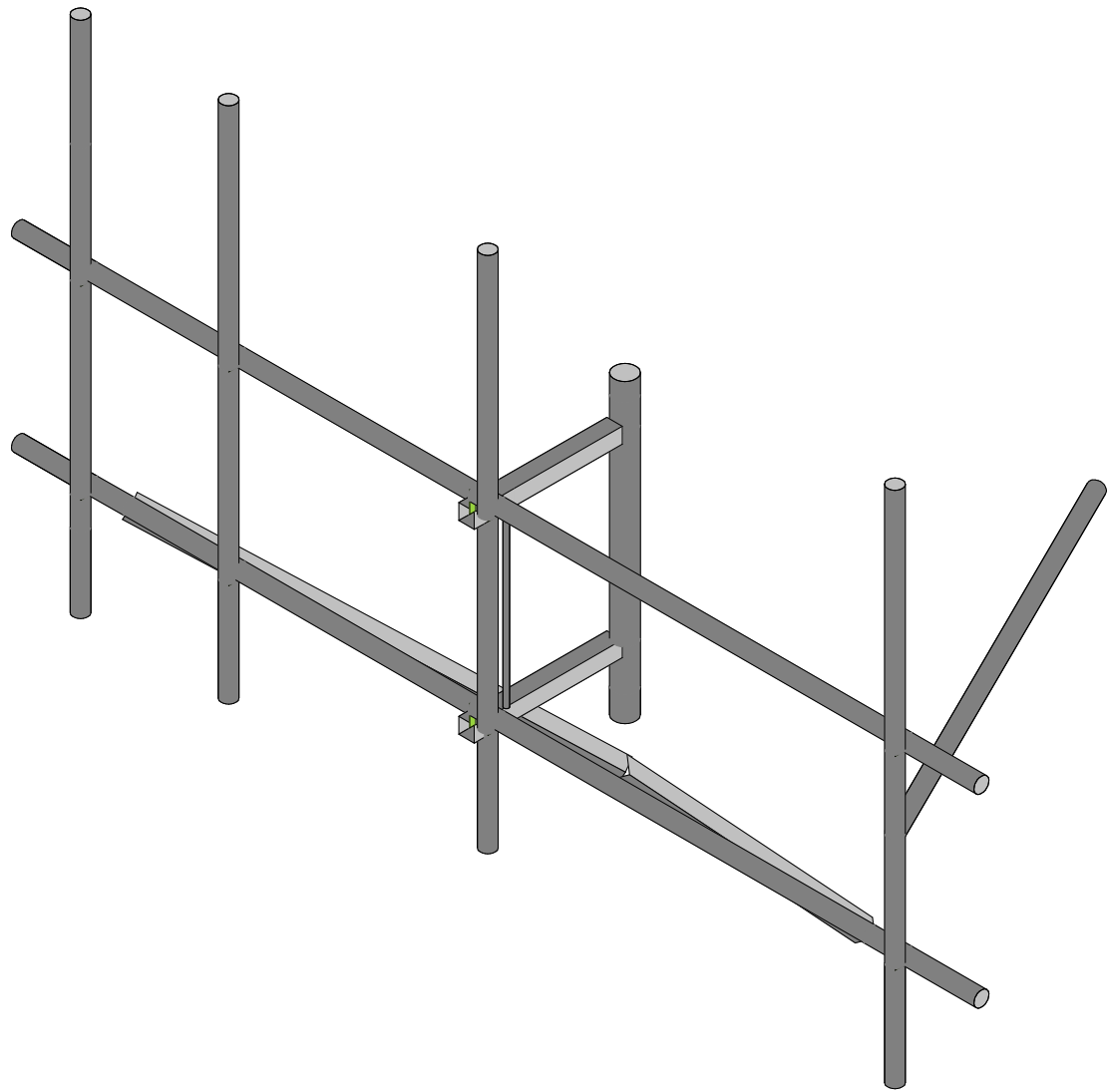
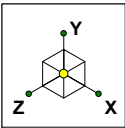
STANDOFF VIEW



**DETAIL C
STABILIZER CONNECTION DETAIL**

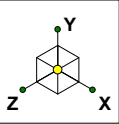




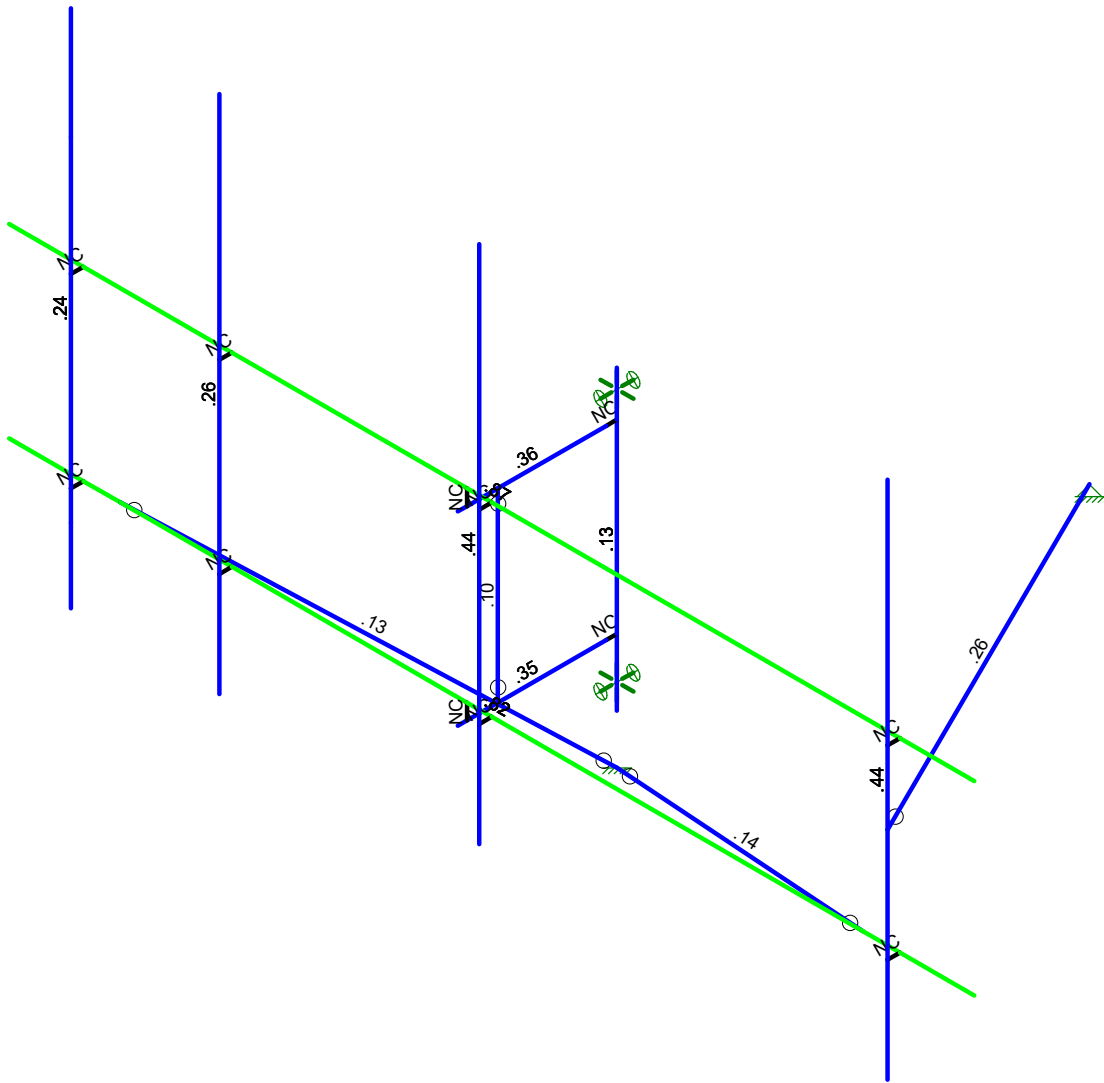


Envelope Only Solution

Colliers Engineering & De...		SK - 1
	5000384285-VZW_MT_LOT_SectorA_H	Nov 15, 2023 at 12:27 PM
Project No. 10213280		Mod_5000384285-VZW_MT_LOT...

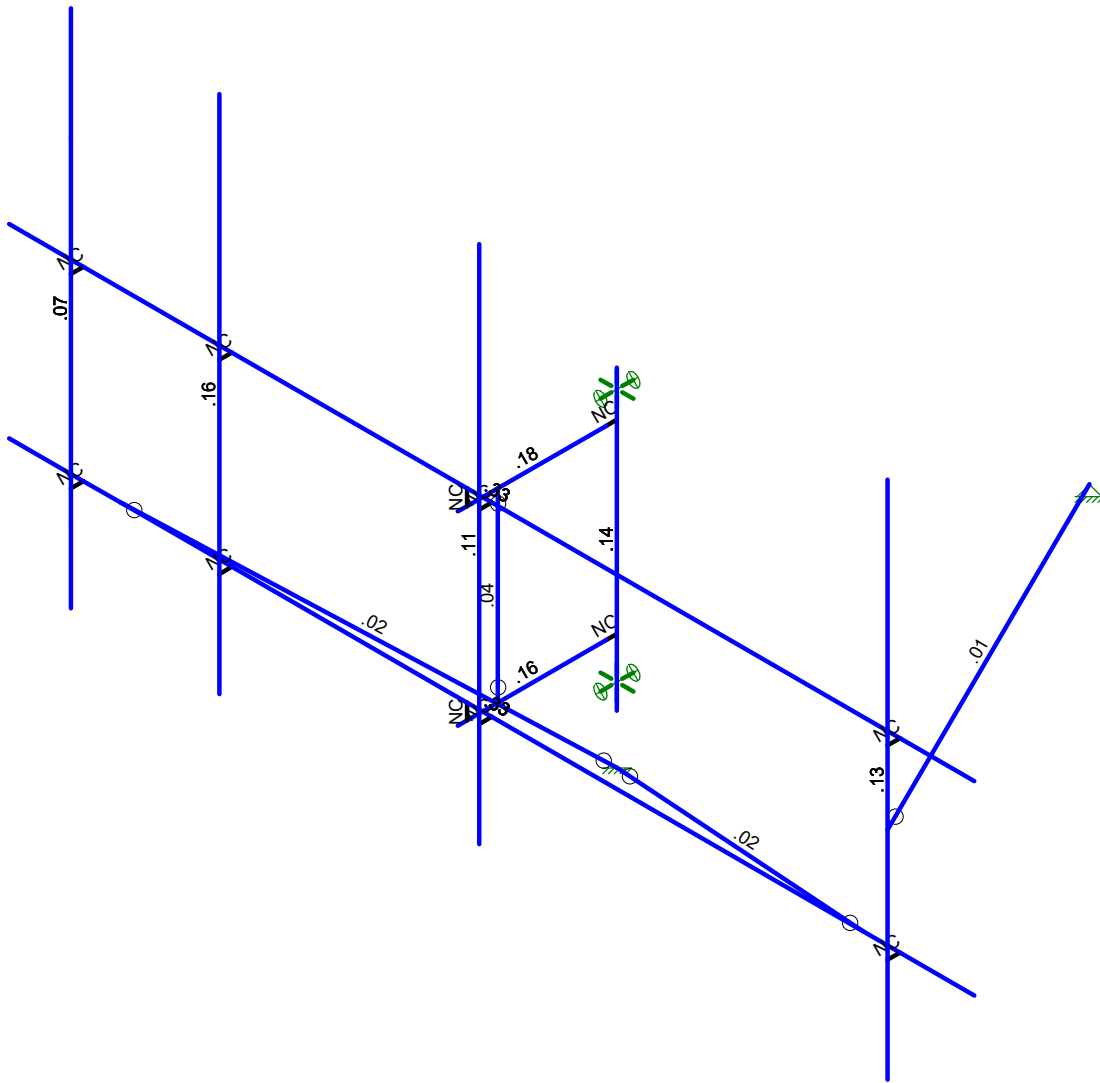
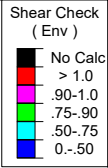
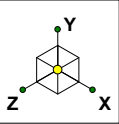


Code Check (Env)	
Black	No Calc
Red	> 1.0
Pink	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0-.50



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Colliers Engineering & De...		SK - 2
	5000384285-VZW_MT_LOT_SectorA_H	Nov 15, 2023 at 12:27 PM
Project No. 10213280		Mod_5000384285-VZW_MT_LOT...



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Colliers Engineering & De...		SK - 3
	5000384285-VZW_MT_LOT_SectorA_H	Nov 15, 2023 at 12:27 PM
Project No. 10213280		Mod_5000384285-VZW_MT_LOT...



Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...)	Surface(P...
1	Antenna D	None					33		
2	Antenna Di	None					33		
3	Antenna Wo (0 Deg)	None					33		
4	Antenna Wo (30 Deg)	None					33		
5	Antenna Wo (60 Deg)	None					33		
6	Antenna Wo (90 Deg)	None					33		
7	Antenna Wo (120 Deg)	None					33		
8	Antenna Wo (150 Deg)	None					33		
9	Antenna Wo (180 Deg)	None					33		
10	Antenna Wo (210 Deg)	None					33		
11	Antenna Wo (240 Deg)	None					33		
12	Antenna Wo (270 Deg)	None					33		
13	Antenna Wo (300 Deg)	None					33		
14	Antenna Wo (330 Deg)	None					33		
15	Antenna Wi (0 Deg)	None					33		
16	Antenna Wi (30 Deg)	None					33		
17	Antenna Wi (60 Deg)	None					33		
18	Antenna Wi (90 Deg)	None					33		
19	Antenna Wi (120 Deg)	None					33		
20	Antenna Wi (150 Deg)	None					33		
21	Antenna Wi (180 Deg)	None					33		
22	Antenna Wi (210 Deg)	None					33		
23	Antenna Wi (240 Deg)	None					33		
24	Antenna Wi (270 Deg)	None					33		
25	Antenna Wi (300 Deg)	None					33		
26	Antenna Wi (330 Deg)	None					33		
27	Antenna Wm (0 Deg)	None					33		
28	Antenna Wm (30 Deg)	None					33		
29	Antenna Wm (60 Deg)	None					33		
30	Antenna Wm (90 Deg)	None					33		
31	Antenna Wm (120 Deg)	None					33		
32	Antenna Wm (150 Deg)	None					33		
33	Antenna Wm (180 Deg)	None					33		
34	Antenna Wm (210 Deg)	None					33		
35	Antenna Wm (240 Deg)	None					33		
36	Antenna Wm (270 Deg)	None					33		
37	Antenna Wm (300 Deg)	None					33		
38	Antenna Wm (330 Deg)	None					33		
39	Structure D	None		-1					
40	Structure Di	None						13	
41	Structure Wo (0 Deg)	None						26	
42	Structure Wo (30 Deg)	None						26	
43	Structure Wo (60 Deg)	None						26	
44	Structure Wo (90 Deg)	None						26	
45	Structure Wo (120 D...	None						26	
46	Structure Wo (150 D...	None						26	
47	Structure Wo (180 D...	None						26	
48	Structure Wo (210 D...	None						26	
49	Structure Wo (240 D...	None						26	
50	Structure Wo (270 D...	None						26	
51	Structure Wo (300 D...	None						26	
52	Structure Wo (330 D...	None						26	
53	Structure Wi (0 Deg)	None						26	
54	Structure Wi (30 Deg)	None						26	
55	Structure Wi (60 Deg)	None						26	
56	Structure Wi (90 Deg)	None						26	



Basic Load Cases (Continued)

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
57 Structure Wi (120 De...	None						26	
58 Structure Wi (150 De...	None						26	
59 Structure Wi (180 De...	None						26	
60 Structure Wi (210 De...	None						26	
61 Structure Wi (240 De...	None						26	
62 Structure Wi (270 De...	None						26	
63 Structure Wi (300 De...	None						26	
64 Structure Wi (330 De...	None						26	
65 Structure Wm (0 Deg)	None						26	
66 Structure Wm (30 De...	None						26	
67 Structure Wm (60 De...	None						26	
68 Structure Wm (90 De...	None						26	
69 Structure Wm (120 D...	None						26	
70 Structure Wm (150 D...	None						26	
71 Structure Wm (180 D...	None						26	
72 Structure Wm (210 D...	None						26	
73 Structure Wm (240 D...	None						26	
74 Structure Wm (270 D...	None						26	
75 Structure Wm (300 D...	None						26	
76 Structure Wm (330 D...	None						26	
77 Lm1	None					1		
78 Lm2	None					1		
79 Lv1	None					1		
80 Lv2	None					1		
81 Antenna Ev	None					33		
82 Antenna Eh (0 Deg)	None					22		
83 Antenna Eh (90 Deg)	None					22		
84 Structure Ev	ELY		-.041					
85 Structure Eh (0 Deg)	ELZ			-.102				
86 Structure Eh (90 Deg)	ELX	.102						

Load Combinations

Description	So...	P...	S...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...
1 1.2D+1.0Wo (0 Deg)	Yes	Y		1	1.2	39	1.2	3	1	41	1		
2 1.2D+1.0Wo (30 Deg)	Yes	Y		1	1.2	39	1.2	4	1	42	1		
3 1.2D+1.0Wo (60 Deg)	Yes	Y		1	1.2	39	1.2	5	1	43	1		
4 1.2D+1.0Wo (90 Deg)	Yes	Y		1	1.2	39	1.2	6	1	44	1		
5 1.2D+1.0Wo (120 Deg)	Yes	Y		1	1.2	39	1.2	7	1	45	1		
6 1.2D+1.0Wo (150 Deg)	Yes	Y		1	1.2	39	1.2	8	1	46	1		
7 1.2D+1.0Wo (180 Deg)	Yes	Y		1	1.2	39	1.2	9	1	47	1		
8 1.2D+1.0Wo (210 Deg)	Yes	Y		1	1.2	39	1.2	10	1	48	1		
9 1.2D+1.0Wo (240 Deg)	Yes	Y		1	1.2	39	1.2	11	1	49	1		
10 1.2D+1.0Wo (270 Deg)	Yes	Y		1	1.2	39	1.2	12	1	50	1		
11 1.2D+1.0Wo (300 Deg)	Yes	Y		1	1.2	39	1.2	13	1	51	1		
12 1.2D+1.0Wo (330 Deg)	Yes	Y		1	1.2	39	1.2	14	1	52	1		
13 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1
14 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1
15 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1
16 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1
17 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1
18 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1
19 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1
20 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1
21 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1
22 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1



Load Combinations (Continued)

Description	So...	P...	S...	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..
23	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	25	1	63	1
24	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	26	1	64	1
25	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	27	1	65	1		
26	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	28	1	66	1		
27	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	29	1	67	1		
28	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	30	1	68	1		
29	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	31	1	69	1		
30	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	32	1	70	1		
31	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	33	1	71	1		
32	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	34	1	72	1		
33	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	35	1	73	1		
34	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	36	1	74	1		
35	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	37	1	75	1		
36	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	38	1	76	1		
37	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	27	1	65	1		
38	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	28	1	66	1		
39	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	29	1	67	1		
40	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	30	1	68	1		
41	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	31	1	69	1		
42	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	32	1	70	1		
43	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	33	1	71	1		
44	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	34	1	72	1		
45	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	35	1	73	1		
46	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	36	1	74	1		
47	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	37	1	75	1		
48	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	38	1	76	1		
49	1.2D + 1.5Lv1	Yes	Y	1	1.2	39	1.2	79	1.5						
50	1.2D + 1.5Lv2	Yes	Y	1	1.2	39	1.2	80	1.5						
51	1.4D	Yes	Y	1	1.4	39	1.4								
52	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	1	83	ELZ 1 ELX
53	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	.866	83	.5 ELZ .866 ELX .5
54	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	.5	83	.866 ELZ .5 ELX .866
55	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82		83	1 ELZ ELX 1
56	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	.866 ELZ -.5 ELX .866
57	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	.5 ELZ -.866 ELX .5
58	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-1	83	ELZ -1 ELX
59	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	-.5 ELZ -.866 ELX -.5
60	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	-.866 ELZ -.5 ELX -.866
61	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82		83	-1 ELZ ELX -1
62	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	.5	83	-.866 ELZ .5 ELX -.866
63	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	.866	83	-.5 ELZ .866 ELX -.5
64	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	1	83	ELZ 1 ELX
65	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	.866	83	.5 ELZ .866 ELX .5
66	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	.5	83	.866 ELZ .5 ELX .866
67	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82		83	1 ELZ ELX 1
68	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	.866 ELZ -.5 ELX .866
69	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	.5 ELZ -.866 ELX .5
70	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	-1	83	ELZ -1 ELX
71	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	-.5 ELZ -.866 ELX -.5
72	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	-.866 ELZ -.5 ELX -.866
73	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82		83	-1 ELZ ELX -1
74	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	.5	83	-.866 ELZ .5 ELX -.866
75	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-.5 ELZ .866 ELX -.5



Joint Coordinates and Temperatures

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
1	N1	78	0	0	0	
2	N2	-78	0	0	0	
3	N3	78	30	0	0	
4	N4	-78	30	0	0	
5	N5	-66	30	0	0	
6	N6	-66	30	2.	0	
7	N7	-66	67.1875	2.	0	
8	N8	-66	-16.8125	2.	0	
9	N9	-66	0	0	0	
10	N10	-66	0	2.	0	
11	N11	0	30	0	0	
12	N12	0	30	2.	0	
13	N13	0	67.1875	2.	0	
14	N14	0	-16.8125	2.	0	
15	N15	0	0	0	0	
16	N16	0	0	2.	0	
17	N17	-42	30	0	0	
18	N18	-42	30	2.	0	
19	N19	-42	67.1875	2.	0	
20	N20	-42	-16.8125	2.	0	
21	N21	-42	0	0	0	
22	N22	-42	0	2.	0	
23	N30	-4.	30	0	0	
24	N31	-4.	27.5	0	0	
25	N32	-4.	27.5	1.5	0	
26	N33	-4.	27.5	-22.5	0	
27	N34	-4.	0	0	0	
28	N35	-4.	-2.5	0	0	
29	N36	-4.	-2.5	1.5	0	
30	N37	-4.	-2.5	-22.5	0	
31	N38	-4.	27.5	-5.	0	
32	N39	-4.	-2.5	-5.	0	
33	N40	-4.	27.5	-24.25	0	
34	N41	-4.	-2.5	-24.25	0	
35	N42	-4.	34.75	-24.25	0	
36	N43	-4.	-13.25	-24.25	0	
37	N44	-4.	31.75	-24.25	0	
38	N45	-4.	-9.25	-24.25	0	
39	N48	33.937532	18.188	-62.678423	0	
40	N48A	66	18.188	2.	0	
41	N47	66	30	0	0	
42	N48B	66	30	2.	0	
43	N49	66	67.1875	2.	0	
44	N50	66	-16.8125	2.	0	
45	N51	66	0	0	0	
46	N52	66	0	2.	0	
47	N47A	-66	49.1875	2.	0	
48	N48C	-66	-4.8125	2.	0	
49	N49A	-60	0	0	0	
50	N51B	60	0	0	0	
51	N52A	-4.	-21.25	-24.25	0	



Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Dish Pipe	PIPE 4.0	Column	Pipe	A53 Gr. B	Typical	2.96	6.82	6.82	13.6
3	Face Horizontal	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
4	Standoff Horizontal	HSS2.5X2.5X3	Beam	SquareTube	A500 Gr. B 42	Typical	1.54	1.35	1.35	2.25
5	Standoff Bracing	SR 0.75	Column	BAR	A36 Gr.36	Typical	.442	.016	.016	.031
6	Tie-Back	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
7	Mast Pipe	PIPE 3.0	Column	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
8	MOD TIEBACK	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
9	MOD V-BRACE	L2.5x2.5x4	Column	Single Angle	A36 Gr.36	Typical	1.19	.692	.692	.026

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A53 Gr. B	29000	11154	.3	.65	.49	35	1.5	60	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
5	A500 Gr. B 42	29000	11154	.3	.65	.49	42	1.4	58	1.3
6	A500 Gr. B 46	29000	11154	.3	.65	.49	46	1.4	58	1.3

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N2	N1			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
2	M2	N4	N3			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
3	M3	N6	N5			RIGID	None	None	RIGID	Typical
4	MP4A	N7	N8			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
5	M5	N10	N9			RIGID	None	None	RIGID	Typical
6	M6	N12	N11			RIGID	None	None	RIGID	Typical
7	MP2A	N13	N14			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
8	M8	N16	N15			RIGID	None	None	RIGID	Typical
9	M9	N18	N17			RIGID	None	None	RIGID	Typical
10	MP3A	N19	N20			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
11	M11	N22	N21			RIGID	None	None	RIGID	Typical
12	M15	N32	N33			Standoff Horiz...	Beam	SquareTube	A500 Gr. ...	Typical
13	M16	N30	N31			RIGID	None	None	RIGID	Typical
14	M17	N36	N37			Standoff Horiz...	Beam	SquareTube	A500 Gr. ...	Typical
15	M18	N34	N35			RIGID	None	None	RIGID	Typical
16	M19	N38	N39			Standoff Braci...	Column	BAR	A36 Gr.36	Typical
17	M20	N33	N40			RIGID	None	None	RIGID	Typical
18	M21	N37	N41			RIGID	None	None	RIGID	Typical
19	M22	N42	N43			Mast Pipe	Column	Pipe	A53 Gr. B	Typical
20	M23	N48A	N48			Tie-Back	Beam	Pipe	A53 Gr. B	Typical
21	M24	N48B	N47			RIGID	None	None	RIGID	Typical
22	MP1A	N49	N50			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
23	M26	N52	N51			RIGID	None	None	RIGID	Typical
24	M24A	N49A	N52A			MOD V-BRACE	Column	Single Angle	A36 Gr.36	Typical
25	M25	N52A	N51B			MOD V-BRACE	Column	Single Angle	A36 Gr.36	Typical

Hot Rolled Steel Design Parameters

	Label	Shape	Length[in]	Lbyy[in]	Lbzz[in]	Lcomp top[in]	Lcomp bot[in]	L-torqu...	Kyy	Kzz	Cb	Function
1	M1	Face Horizo...	156					Lbyy				Lateral
2	M2	Face Horizo...	156					Lbyy				Lateral



Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[in]	Lbyy[in]	Lbzz[in]	Lcomp top[in]	Lcomp bot[in]	L-torqu...	Kyy	Kzz	Cb	Function
3	MP4A	Antenna Pipe	84									Lateral
4	MP2A	Antenna Pipe	84									Lateral
5	MP3A	Antenna Pipe	84									Lateral
6	M15	Standoff Ho...	24			Lbyy						Lateral
7	M17	Standoff Ho...	24			Lbyy						Lateral
8	M19	Standoff Br...	30			Lbyy						Lateral
9	M22	Mast Pipe	48									Lateral
10	M23	Tie-Back	72.189			Lbyy						Lateral
11	MP1A	Antenna Pipe	84									Lateral
12	M24A	MOD V-BR...	64.619									Lateral
13	M25	MOD V-BR...	71.663									Lateral

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP4A	Y	-13.15	18
2	MP4A	My	-.012	18
3	MP4A	Mz	0	18
4	MP4A	Y	-13.15	72
5	MP4A	My	-.012	72
6	MP4A	Mz	0	72
7	MP2A	Y	-23	18
8	MP2A	My	-.011	18
9	MP2A	Mz	.017	18
10	MP2A	Y	-23	72
11	MP2A	My	-.011	72
12	MP2A	Mz	.017	72
13	MP2A	Y	-23	18
14	MP2A	My	-.011	18
15	MP2A	Mz	-.017	18
16	MP2A	Y	-23	72
17	MP2A	My	-.011	72
18	MP2A	Mz	-.017	72
19	MP1A	Y	-28.65	33
20	MP1A	My	-.014	33
21	MP1A	Mz	0	33
22	MP1A	Y	-28.65	57
23	MP1A	My	-.014	57
24	MP1A	Mz	0	57
25	MP2A	Y	-74.7	48
26	MP2A	My	.037	48
27	MP2A	Mz	0	48
28	MP3A	Y	-79.1	48
29	MP3A	My	.04	48
30	MP3A	Mz	0	48
31	M22	Y	-32	24
32	M22	My	0	24
33	M22	Mz	0	24

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP4A	Y	-60.942	18
2	MP4A	My	-.053	18
3	MP4A	Mz	0	18
4	MP4A	Y	-60.942	72
5	MP4A	My	-.053	72



Member Point Loads (BLC 2 : Antenna Di) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
6	MP4A	Mz	0	72
7	MP2A	Y	-82.205	18
8	MP2A	My	-.041	18
9	MP2A	Mz	.062	18
10	MP2A	Y	-82.205	72
11	MP2A	My	-.041	72
12	MP2A	Mz	.062	72
13	MP2A	Y	-82.205	18
14	MP2A	My	-.041	18
15	MP2A	Mz	-.062	18
16	MP2A	Y	-82.205	72
17	MP2A	My	-.041	72
18	MP2A	Mz	-.062	72
19	MP1A	Y	-29.681	33
20	MP1A	My	-.015	33
21	MP1A	Mz	0	33
22	MP1A	Y	-29.681	57
23	MP1A	My	-.015	57
24	MP1A	Mz	0	57
25	MP2A	Y	-44.752	48
26	MP2A	My	.022	48
27	MP2A	Mz	0	48
28	MP3A	Y	-45.227	48
29	MP3A	My	.023	48
30	MP3A	Mz	0	48
31	M22	Y	-87.633	24
32	M22	My	0	24
33	M22	Mz	0	24

Member Point Loads (BLC 3 : Antenna Wo (0 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	0	18
2	MP4A	Z	-133.292	18
3	MP4A	Mx	0	18
4	MP4A	X	0	72
5	MP4A	Z	-133.292	72
6	MP4A	Mx	0	72
7	MP2A	X	0	18
8	MP2A	Z	-77.169	18
9	MP2A	Mx	-.058	18
10	MP2A	X	0	72
11	MP2A	Z	-77.169	72
12	MP2A	Mx	-.058	72
13	MP2A	X	0	18
14	MP2A	Z	-77.169	18
15	MP2A	Mx	.058	18
16	MP2A	X	0	72
17	MP2A	Z	-77.169	72
18	MP2A	Mx	.058	72
19	MP1A	X	0	33
20	MP1A	Z	-61.833	33
21	MP1A	Mx	0	33
22	MP1A	X	0	57
23	MP1A	Z	-61.833	57
24	MP1A	Mx	0	57
25	MP2A	X	0	48



Member Point Loads (BLC 3 : Antenna Wo (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
26	MP2A	Z	-50.576	48
27	MP2A	Mx	0	48
28	MP3A	X	0	48
29	MP3A	Z	-61.017	48
30	MP3A	Mx	0	48
31	M22	X	0	24
32	M22	Z	-100.535	24
33	M22	Mx	0	24

Member Point Loads (BLC 4 : Antenna Wo (30 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	61.008	18
2	MP4A	Z	-105.669	18
3	MP4A	Mx	-.053	18
4	MP4A	X	61.008	72
5	MP4A	Z	-105.669	72
6	MP4A	Mx	-.053	72
7	MP2A	X	36.158	18
8	MP2A	Z	-62.627	18
9	MP2A	Mx	-.065	18
10	MP2A	X	36.158	72
11	MP2A	Z	-62.627	72
12	MP2A	Mx	-.065	72
13	MP2A	X	36.158	18
14	MP2A	Z	-62.627	18
15	MP2A	Mx	.029	18
16	MP2A	X	36.158	72
17	MP2A	Z	-62.627	72
18	MP2A	Mx	.029	72
19	MP1A	X	26.164	33
20	MP1A	Z	-45.318	33
21	MP1A	Mx	-.013	33
22	MP1A	X	26.164	57
23	MP1A	Z	-45.318	57
24	MP1A	Mx	-.013	57
25	MP2A	X	23.208	48
26	MP2A	Z	-40.197	48
27	MP2A	Mx	.012	48
28	MP3A	X	28.082	48
29	MP3A	Z	-48.639	48
30	MP3A	Mx	.014	48
31	M22	X	44.442	24
32	M22	Z	-76.975	24
33	M22	Mx	0	24

Member Point Loads (BLC 5 : Antenna Wo (60 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	86.138	18
2	MP4A	Z	-49.732	18
3	MP4A	Mx	-.075	18
4	MP4A	X	86.138	72
5	MP4A	Z	-49.732	72
6	MP4A	Mx	-.075	72
7	MP2A	X	54.22	18
8	MP2A	Z	-31.304	18
9	MP2A	Mx	-.051	18



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project No. 10213280
 Model Name : 5000384285-VZW_MT_LOT_SectorA_H

Nov 15, 2023
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 Checked By: _____

Member Point Loads (BLC 5 : Antenna Wo (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
10	MP2A	X	54.22	72
11	MP2A	Z	-31.304	72
12	MP2A	Mx	-.051	72
13	MP2A	X	54.22	18
14	MP2A	Z	-31.304	18
15	MP2A	Mx	-.004	18
16	MP2A	X	54.22	72
17	MP2A	Z	-31.304	72
18	MP2A	Mx	-.004	72
19	MP1A	X	28.856	33
20	MP1A	Z	-16.66	33
21	MP1A	Mx	-.014	33
22	MP1A	X	28.856	57
23	MP1A	Z	-16.66	57
24	MP1A	Mx	-.014	57
25	MP2A	X	32.991	48
26	MP2A	Z	-19.048	48
27	MP2A	Mx	.016	48
28	MP3A	X	40.232	48
29	MP3A	Z	-23.228	48
30	MP3A	Mx	.02	48
31	M22	X	68.75	24
32	M22	Z	-39.693	24
33	M22	Mx	0	24

Member Point Loads (BLC 6 : Antenna Wo (90 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	88.188	18
2	MP4A	Z	0	18
3	MP4A	Mx	-.077	18
4	MP4A	X	88.188	72
5	MP4A	Z	0	72
6	MP4A	Mx	-.077	72
7	MP2A	X	57.755	18
8	MP2A	Z	0	18
9	MP2A	Mx	-.029	18
10	MP2A	X	57.755	72
11	MP2A	Z	0	72
12	MP2A	Mx	-.029	72
13	MP2A	X	57.755	18
14	MP2A	Z	0	18
15	MP2A	Mx	-.029	18
16	MP2A	X	57.755	72
17	MP2A	Z	0	72
18	MP2A	Mx	-.029	72
19	MP1A	X	23.815	33
20	MP1A	Z	0	33
21	MP1A	Mx	-.012	33
22	MP1A	X	23.815	57
23	MP1A	Z	0	57
24	MP1A	Mx	-.012	57
25	MP2A	X	33.935	48
26	MP2A	Z	0	48
27	MP2A	Mx	.017	48
28	MP3A	X	41.603	48
29	MP3A	Z	0	48



Member Point Loads (BLC 6 : Antenna Wo (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[[lb,k-ft]	Location[in,%]
30	MP3A	Mx	.021	48
31	M22	X	81.538	24
32	M22	Z	0	24
33	M22	Mx	0	24

Member Point Loads (BLC 7 : Antenna Wo (120 Deg))

	Member Label	Direction	Magnitude[[lb,k-ft]	Location[in,%]
1	MP4A	X	86.138	18
2	MP4A	Z	49.732	18
3	MP4A	Mx	-.075	18
4	MP4A	X	86.138	72
5	MP4A	Z	49.732	72
6	MP4A	Mx	-.075	72
7	MP2A	X	54.22	18
8	MP2A	Z	31.304	18
9	MP2A	Mx	-.004	18
10	MP2A	X	54.22	72
11	MP2A	Z	31.304	72
12	MP2A	Mx	-.004	72
13	MP2A	X	54.22	18
14	MP2A	Z	31.304	18
15	MP2A	Mx	-.051	18
16	MP2A	X	54.22	72
17	MP2A	Z	31.304	72
18	MP2A	Mx	-.051	72
19	MP1A	X	28.856	33
20	MP1A	Z	16.66	33
21	MP1A	Mx	-.014	33
22	MP1A	X	28.856	57
23	MP1A	Z	16.66	57
24	MP1A	Mx	-.014	57
25	MP2A	X	32.991	48
26	MP2A	Z	19.048	48
27	MP2A	Mx	.016	48
28	MP3A	X	40.232	48
29	MP3A	Z	23.228	48
30	MP3A	Mx	.02	48
31	M22	X	80.705	24
32	M22	Z	46.595	24
33	M22	Mx	0	24

Member Point Loads (BLC 8 : Antenna Wo (150 Deg))

	Member Label	Direction	Magnitude[[lb,k-ft]	Location[in,%]
1	MP4A	X	61.008	18
2	MP4A	Z	105.669	18
3	MP4A	Mx	-.053	18
4	MP4A	X	61.008	72
5	MP4A	Z	105.669	72
6	MP4A	Mx	-.053	72
7	MP2A	X	36.158	18
8	MP2A	Z	62.627	18
9	MP2A	Mx	.029	18
10	MP2A	X	36.158	72
11	MP2A	Z	62.627	72
12	MP2A	Mx	.029	72
13	MP2A	X	36.158	18



Member Point Loads (BLC 8 : Antenna Wo (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
14	MP2A	Z	62.627	18
15	MP2A	Mx	-.065	18
16	MP2A	X	36.158	72
17	MP2A	Z	62.627	72
18	MP2A	Mx	-.065	72
19	MP1A	X	26.164	33
20	MP1A	Z	45.318	33
21	MP1A	Mx	-.013	33
22	MP1A	X	26.164	57
23	MP1A	Z	45.318	57
24	MP1A	Mx	-.013	57
25	MP2A	X	23.208	48
26	MP2A	Z	40.197	48
27	MP2A	Mx	.012	48
28	MP3A	X	28.082	48
29	MP3A	Z	48.639	48
30	MP3A	Mx	.014	48
31	M22	X	51.344	24
32	M22	Z	88.931	24
33	M22	Mx	0	24

Member Point Loads (BLC 9 : Antenna Wo (180 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP4A	X	0	18
2	MP4A	Z	133.292	18
3	MP4A	Mx	0	18
4	MP4A	X	0	72
5	MP4A	Z	133.292	72
6	MP4A	Mx	0	72
7	MP2A	X	0	18
8	MP2A	Z	77.169	18
9	MP2A	Mx	.058	18
10	MP2A	X	0	72
11	MP2A	Z	77.169	72
12	MP2A	Mx	.058	72
13	MP2A	X	0	18
14	MP2A	Z	77.169	18
15	MP2A	Mx	-.058	18
16	MP2A	X	0	72
17	MP2A	Z	77.169	72
18	MP2A	Mx	-.058	72
19	MP1A	X	0	33
20	MP1A	Z	61.833	33
21	MP1A	Mx	0	33
22	MP1A	X	0	57
23	MP1A	Z	61.833	57
24	MP1A	Mx	0	57
25	MP2A	X	0	48
26	MP2A	Z	50.576	48
27	MP2A	Mx	0	48
28	MP3A	X	0	48
29	MP3A	Z	61.017	48
30	MP3A	Mx	0	48
31	M22	X	0	24
32	M22	Z	100.535	24
33	M22	Mx	0	24



Member Point Loads (BLC 10 : Antenna Wo (210 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	-61.008	18
2	MP4A	Z	105.669	18
3	MP4A	Mx	.053	18
4	MP4A	X	-61.008	72
5	MP4A	Z	105.669	72
6	MP4A	Mx	.053	72
7	MP2A	X	-36.158	18
8	MP2A	Z	62.627	18
9	MP2A	Mx	.065	18
10	MP2A	X	-36.158	72
11	MP2A	Z	62.627	72
12	MP2A	Mx	.065	72
13	MP2A	X	-36.158	18
14	MP2A	Z	62.627	18
15	MP2A	Mx	-.029	18
16	MP2A	X	-36.158	72
17	MP2A	Z	62.627	72
18	MP2A	Mx	-.029	72
19	MP1A	X	-26.164	33
20	MP1A	Z	45.318	33
21	MP1A	Mx	.013	33
22	MP1A	X	-26.164	57
23	MP1A	Z	45.318	57
24	MP1A	Mx	.013	57
25	MP2A	X	-23.208	48
26	MP2A	Z	40.197	48
27	MP2A	Mx	-.012	48
28	MP3A	X	-28.082	48
29	MP3A	Z	48.639	48
30	MP3A	Mx	-.014	48
31	M22	X	-44.442	24
32	M22	Z	76.975	24
33	M22	Mx	0	24

Member Point Loads (BLC 11 : Antenna Wo (240 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	-86.138	18
2	MP4A	Z	49.732	18
3	MP4A	Mx	.075	18
4	MP4A	X	-86.138	72
5	MP4A	Z	49.732	72
6	MP4A	Mx	.075	72
7	MP2A	X	-54.22	18
8	MP2A	Z	31.304	18
9	MP2A	Mx	.051	18
10	MP2A	X	-54.22	72
11	MP2A	Z	31.304	72
12	MP2A	Mx	.051	72
13	MP2A	X	-54.22	18
14	MP2A	Z	31.304	18
15	MP2A	Mx	.004	18
16	MP2A	X	-54.22	72
17	MP2A	Z	31.304	72
18	MP2A	Mx	.004	72
19	MP1A	X	-28.856	33
20	MP1A	Z	16.66	33



Member Point Loads (BLC 11 : Antenna Wo (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
21	MP1A	Mx	.014	33
22	MP1A	X	-28.856	57
23	MP1A	Z	16.66	57
24	MP1A	Mx	.014	57
25	MP2A	X	-32.991	48
26	MP2A	Z	19.048	48
27	MP2A	Mx	-.016	48
28	MP3A	X	-40.232	48
29	MP3A	Z	23.228	48
30	MP3A	Mx	-.02	48
31	M22	X	-68.75	24
32	M22	Z	39.693	24
33	M22	Mx	0	24

Member Point Loads (BLC 12 : Antenna Wo (270 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	-88.188	18
2	MP4A	Z	0	18
3	MP4A	Mx	.077	18
4	MP4A	X	-88.188	72
5	MP4A	Z	0	72
6	MP4A	Mx	.077	72
7	MP2A	X	-57.755	18
8	MP2A	Z	0	18
9	MP2A	Mx	.029	18
10	MP2A	X	-57.755	72
11	MP2A	Z	0	72
12	MP2A	Mx	.029	72
13	MP2A	X	-57.755	18
14	MP2A	Z	0	18
15	MP2A	Mx	.029	18
16	MP2A	X	-57.755	72
17	MP2A	Z	0	72
18	MP2A	Mx	.029	72
19	MP1A	X	-23.815	33
20	MP1A	Z	0	33
21	MP1A	Mx	.012	33
22	MP1A	X	-23.815	57
23	MP1A	Z	0	57
24	MP1A	Mx	.012	57
25	MP2A	X	-33.935	48
26	MP2A	Z	0	48
27	MP2A	Mx	-.017	48
28	MP3A	X	-41.603	48
29	MP3A	Z	0	48
30	MP3A	Mx	-.021	48
31	M22	X	-81.538	24
32	M22	Z	0	24
33	M22	Mx	0	24

Member Point Loads (BLC 13 : Antenna Wo (300 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	-86.138	18
2	MP4A	Z	-49.732	18
3	MP4A	Mx	.075	18
4	MP4A	X	-86.138	72



Member Point Loads (BLC 13 : Antenna Wo (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
5	MP4A	Z	-49.732	72
6	MP4A	Mx	.075	72
7	MP2A	X	-54.22	18
8	MP2A	Z	-31.304	18
9	MP2A	Mx	.004	18
10	MP2A	X	-54.22	72
11	MP2A	Z	-31.304	72
12	MP2A	Mx	.004	72
13	MP2A	X	-54.22	18
14	MP2A	Z	-31.304	18
15	MP2A	Mx	.051	18
16	MP2A	X	-54.22	72
17	MP2A	Z	-31.304	72
18	MP2A	Mx	.051	72
19	MP1A	X	-28.856	33
20	MP1A	Z	-16.66	33
21	MP1A	Mx	.014	33
22	MP1A	X	-28.856	57
23	MP1A	Z	-16.66	57
24	MP1A	Mx	.014	57
25	MP2A	X	-32.991	48
26	MP2A	Z	-19.048	48
27	MP2A	Mx	-.016	48
28	MP3A	X	-40.232	48
29	MP3A	Z	-23.228	48
30	MP3A	Mx	-.02	48
31	M22	X	-80.705	24
32	M22	Z	-46.595	24
33	M22	Mx	0	24

Member Point Loads (BLC 14 : Antenna Wo (330 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	-61.008	18
2	MP4A	Z	-105.669	18
3	MP4A	Mx	.053	18
4	MP4A	X	-61.008	72
5	MP4A	Z	-105.669	72
6	MP4A	Mx	.053	72
7	MP2A	X	-36.158	18
8	MP2A	Z	-62.627	18
9	MP2A	Mx	-.029	18
10	MP2A	X	-36.158	72
11	MP2A	Z	-62.627	72
12	MP2A	Mx	-.029	72
13	MP2A	X	-36.158	18
14	MP2A	Z	-62.627	18
15	MP2A	Mx	.065	18
16	MP2A	X	-36.158	72
17	MP2A	Z	-62.627	72
18	MP2A	Mx	.065	72
19	MP1A	X	-26.164	33
20	MP1A	Z	-45.318	33
21	MP1A	Mx	.013	33
22	MP1A	X	-26.164	57
23	MP1A	Z	-45.318	57
24	MP1A	Mx	.013	57



Member Point Loads (BLC 14 : Antenna Wo (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
25	MP2A	X	-23.208	48
26	MP2A	Z	-40.197	48
27	MP2A	Mx	-.012	48
28	MP3A	X	-28.082	48
29	MP3A	Z	-48.639	48
30	MP3A	Mx	-.014	48
31	M22	X	-51.344	24
32	M22	Z	-88.931	24
33	M22	Mx	0	24

Member Point Loads (BLC 15 : Antenna Wi (0 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	0	18
2	MP4A	Z	-25.52	18
3	MP4A	Mx	0	18
4	MP4A	X	0	72
5	MP4A	Z	-25.52	72
6	MP4A	Mx	0	72
7	MP2A	X	0	18
8	MP2A	Z	-30.477	18
9	MP2A	Mx	-.023	18
10	MP2A	X	0	72
11	MP2A	Z	-30.477	72
12	MP2A	Mx	-.023	72
13	MP2A	X	0	18
14	MP2A	Z	-30.477	18
15	MP2A	Mx	.023	18
16	MP2A	X	0	72
17	MP2A	Z	-30.477	72
18	MP2A	Mx	.023	72
19	MP1A	X	0	33
20	MP1A	Z	-12.267	33
21	MP1A	Mx	0	33
22	MP1A	X	0	57
23	MP1A	Z	-12.267	57
24	MP1A	Mx	0	57
25	MP2A	X	0	48
26	MP2A	Z	-12.669	48
27	MP2A	Mx	0	48
28	MP3A	X	0	48
29	MP3A	Z	-12.669	48
30	MP3A	Mx	0	48
31	M22	X	0	24
32	M22	Z	-25.375	24
33	M22	Mx	0	24

Member Point Loads (BLC 16 : Antenna Wi (30 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	11.77	18
2	MP4A	Z	-20.386	18
3	MP4A	Mx	-.01	18
4	MP4A	X	11.77	72
5	MP4A	Z	-20.386	72
6	MP4A	Mx	-.01	72
7	MP2A	X	14.311	18
8	MP2A	Z	-24.787	18



Member Point Loads (BLC 16 : Antenna Wi (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
9	MP2A	Mx	-.026	18
10	MP2A	X	14.311	72
11	MP2A	Z	-24.787	72
12	MP2A	Mx	-.026	72
13	MP2A	X	14.311	18
14	MP2A	Z	-24.787	18
15	MP2A	Mx	.011	18
16	MP2A	X	14.311	72
17	MP2A	Z	-24.787	72
18	MP2A	Mx	.011	72
19	MP1A	X	5.247	33
20	MP1A	Z	-9.089	33
21	MP1A	Mx	-.003	33
22	MP1A	X	5.247	57
23	MP1A	Z	-9.089	57
24	MP1A	Mx	-.003	57
25	MP2A	X	5.852	48
26	MP2A	Z	-10.136	48
27	MP2A	Mx	.003	48
28	MP3A	X	5.871	48
29	MP3A	Z	-10.17	48
30	MP3A	Mx	.003	48
31	M22	X	11.353	24
32	M22	Z	-19.665	24
33	M22	Mx	0	24

Member Point Loads (BLC 17 : Antenna Wi (60 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	16.956	18
2	MP4A	Z	-9.79	18
3	MP4A	Mx	-.015	18
4	MP4A	X	16.956	72
5	MP4A	Z	-9.79	72
6	MP4A	Mx	-.015	72
7	MP2A	X	21.573	18
8	MP2A	Z	-12.455	18
9	MP2A	Mx	-.02	18
10	MP2A	X	21.573	72
11	MP2A	Z	-12.455	72
12	MP2A	Mx	-.02	72
13	MP2A	X	21.573	18
14	MP2A	Z	-12.455	18
15	MP2A	Mx	-.001	18
16	MP2A	X	21.573	72
17	MP2A	Z	-12.455	72
18	MP2A	Mx	-.001	72
19	MP1A	X	6.019	33
20	MP1A	Z	-3.475	33
21	MP1A	Mx	-.003	33
22	MP1A	X	6.019	57
23	MP1A	Z	-3.475	57
24	MP1A	Mx	-.003	57
25	MP2A	X	8.466	48
26	MP2A	Z	-4.888	48
27	MP2A	Mx	.004	48
28	MP3A	X	8.566	48



Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
29	MP3A	Z	-4.946	48
30	MP3A	Mx	.004	48
31	M22	X	17.781	24
32	M22	Z	-10.266	24
33	M22	Mx	0	24

Member Point Loads (BLC 18 : Antenna Wi (90 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP4A	X	17.599	18
2	MP4A	Z	0	18
3	MP4A	Mx	-.015	18
4	MP4A	X	17.599	72
5	MP4A	Z	0	72
6	MP4A	Mx	-.015	72
7	MP2A	X	23.055	18
8	MP2A	Z	0	18
9	MP2A	Mx	-.012	18
10	MP2A	X	23.055	72
11	MP2A	Z	0	72
12	MP2A	Mx	-.012	72
13	MP2A	X	23.055	18
14	MP2A	Z	0	18
15	MP2A	Mx	-.012	18
16	MP2A	X	23.055	72
17	MP2A	Z	0	72
18	MP2A	Mx	-.012	72
19	MP1A	X	5.178	33
20	MP1A	Z	0	33
21	MP1A	Mx	-.003	33
22	MP1A	X	5.178	57
23	MP1A	Z	0	57
24	MP1A	Mx	-.003	57
25	MP2A	X	8.811	48
26	MP2A	Z	0	48
27	MP2A	Mx	.004	48
28	MP3A	X	8.966	48
29	MP3A	Z	0	48
30	MP3A	Mx	.004	48
31	M22	X	21.025	24
32	M22	Z	0	24
33	M22	Mx	0	24

Member Point Loads (BLC 19 : Antenna Wi (120 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP4A	X	16.956	18
2	MP4A	Z	9.79	18
3	MP4A	Mx	-.015	18
4	MP4A	X	16.956	72
5	MP4A	Z	9.79	72
6	MP4A	Mx	-.015	72
7	MP2A	X	21.573	18
8	MP2A	Z	12.455	18
9	MP2A	Mx	-.001	18
10	MP2A	X	21.573	72
11	MP2A	Z	12.455	72
12	MP2A	Mx	-.001	72



Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
13	MP2A	X	21.573	18
14	MP2A	Z	12.455	18
15	MP2A	Mx	-.02	18
16	MP2A	X	21.573	72
17	MP2A	Z	12.455	72
18	MP2A	Mx	-.02	72
19	MP1A	X	6.019	33
20	MP1A	Z	3.475	33
21	MP1A	Mx	-.003	33
22	MP1A	X	6.019	57
23	MP1A	Z	3.475	57
24	MP1A	Mx	-.003	57
25	MP2A	X	8.466	48
26	MP2A	Z	4.888	48
27	MP2A	Mx	.004	48
28	MP3A	X	8.566	48
29	MP3A	Z	4.946	48
30	MP3A	Mx	.004	48
31	M22	X	20.519	24
32	M22	Z	11.846	24
33	M22	Mx	0	24

Member Point Loads (BLC 20 : Antenna Wi (150 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	11.77	18
2	MP4A	Z	20.386	18
3	MP4A	Mx	-.01	18
4	MP4A	X	11.77	72
5	MP4A	Z	20.386	72
6	MP4A	Mx	-.01	72
7	MP2A	X	14.311	18
8	MP2A	Z	24.787	18
9	MP2A	Mx	.011	18
10	MP2A	X	14.311	72
11	MP2A	Z	24.787	72
12	MP2A	Mx	.011	72
13	MP2A	X	14.311	18
14	MP2A	Z	24.787	18
15	MP2A	Mx	-.026	18
16	MP2A	X	14.311	72
17	MP2A	Z	24.787	72
18	MP2A	Mx	-.026	72
19	MP1A	X	5.247	33
20	MP1A	Z	9.089	33
21	MP1A	Mx	-.003	33
22	MP1A	X	5.247	57
23	MP1A	Z	9.089	57
24	MP1A	Mx	-.003	57
25	MP2A	X	5.852	48
26	MP2A	Z	10.136	48
27	MP2A	Mx	.003	48
28	MP3A	X	5.871	48
29	MP3A	Z	10.17	48
30	MP3A	Mx	.003	48
31	M22	X	12.934	24
32	M22	Z	22.402	24



Member Point Loads (BLC 20 : Antenna Wi (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
33	M22	Mx	0	24

Member Point Loads (BLC 21 : Antenna Wi (180 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP4A	X	0	18
2	MP4A	Z	25.52	18
3	MP4A	Mx	0	18
4	MP4A	X	0	72
5	MP4A	Z	25.52	72
6	MP4A	Mx	0	72
7	MP2A	X	0	18
8	MP2A	Z	30.477	18
9	MP2A	Mx	.023	18
10	MP2A	X	0	72
11	MP2A	Z	30.477	72
12	MP2A	Mx	.023	72
13	MP2A	X	0	18
14	MP2A	Z	30.477	18
15	MP2A	Mx	-.023	18
16	MP2A	X	0	72
17	MP2A	Z	30.477	72
18	MP2A	Mx	-.023	72
19	MP1A	X	0	33
20	MP1A	Z	12.267	33
21	MP1A	Mx	0	33
22	MP1A	X	0	57
23	MP1A	Z	12.267	57
24	MP1A	Mx	0	57
25	MP2A	X	0	48
26	MP2A	Z	12.669	48
27	MP2A	Mx	0	48
28	MP3A	X	0	48
29	MP3A	Z	12.669	48
30	MP3A	Mx	0	48
31	M22	X	0	24
32	M22	Z	25.375	24
33	M22	Mx	0	24

Member Point Loads (BLC 22 : Antenna Wi (210 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP4A	X	-11.77	18
2	MP4A	Z	20.386	18
3	MP4A	Mx	.01	18
4	MP4A	X	-11.77	72
5	MP4A	Z	20.386	72
6	MP4A	Mx	.01	72
7	MP2A	X	-14.311	18
8	MP2A	Z	24.787	18
9	MP2A	Mx	.026	18
10	MP2A	X	-14.311	72
11	MP2A	Z	24.787	72
12	MP2A	Mx	.026	72
13	MP2A	X	-14.311	18
14	MP2A	Z	24.787	18
15	MP2A	Mx	-.011	18
16	MP2A	X	-14.311	72



Member Point Loads (BLC 22 : Antenna Wi (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
17	MP2A	Z	24.787	72
18	MP2A	Mx	-.011	72
19	MP1A	X	-5.247	33
20	MP1A	Z	9.089	33
21	MP1A	Mx	.003	33
22	MP1A	X	-5.247	57
23	MP1A	Z	9.089	57
24	MP1A	Mx	.003	57
25	MP2A	X	-5.852	48
26	MP2A	Z	10.136	48
27	MP2A	Mx	-.003	48
28	MP3A	X	-5.871	48
29	MP3A	Z	10.17	48
30	MP3A	Mx	-.003	48
31	M22	X	-11.353	24
32	M22	Z	19.665	24
33	M22	Mx	0	24

Member Point Loads (BLC 23 : Antenna Wi (240 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP4A	X	-16.956	18
2	MP4A	Z	9.79	18
3	MP4A	Mx	.015	18
4	MP4A	X	-16.956	72
5	MP4A	Z	9.79	72
6	MP4A	Mx	.015	72
7	MP2A	X	-21.573	18
8	MP2A	Z	12.455	18
9	MP2A	Mx	.02	18
10	MP2A	X	-21.573	72
11	MP2A	Z	12.455	72
12	MP2A	Mx	.02	72
13	MP2A	X	-21.573	18
14	MP2A	Z	12.455	18
15	MP2A	Mx	.001	18
16	MP2A	X	-21.573	72
17	MP2A	Z	12.455	72
18	MP2A	Mx	.001	72
19	MP1A	X	-6.019	33
20	MP1A	Z	3.475	33
21	MP1A	Mx	.003	33
22	MP1A	X	-6.019	57
23	MP1A	Z	3.475	57
24	MP1A	Mx	.003	57
25	MP2A	X	-8.466	48
26	MP2A	Z	4.888	48
27	MP2A	Mx	-.004	48
28	MP3A	X	-8.566	48
29	MP3A	Z	4.946	48
30	MP3A	Mx	-.004	48
31	M22	X	-17.781	24
32	M22	Z	10.266	24
33	M22	Mx	0	24

Member Point Loads (BLC 24 : Antenna Wi (270 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
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Company : Colliers Engineering & Design
 Designer :
 Job Number : Project No. 10213280
 Model Name : 5000384285-VZW_MT_LOT_SectorA_H

Nov 15, 2023
 12:27 PM
 Checked By: _____

Member Point Loads (BLC 24 : Antenna Wi (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	-17.599	18
2	MP4A	Z	0	18
3	MP4A	Mx	.015	18
4	MP4A	X	-17.599	72
5	MP4A	Z	0	72
6	MP4A	Mx	.015	72
7	MP2A	X	-23.055	18
8	MP2A	Z	0	18
9	MP2A	Mx	.012	18
10	MP2A	X	-23.055	72
11	MP2A	Z	0	72
12	MP2A	Mx	.012	72
13	MP2A	X	-23.055	18
14	MP2A	Z	0	18
15	MP2A	Mx	.012	18
16	MP2A	X	-23.055	72
17	MP2A	Z	0	72
18	MP2A	Mx	.012	72
19	MP1A	X	-5.178	33
20	MP1A	Z	0	33
21	MP1A	Mx	.003	33
22	MP1A	X	-5.178	57
23	MP1A	Z	0	57
24	MP1A	Mx	.003	57
25	MP2A	X	-8.811	48
26	MP2A	Z	0	48
27	MP2A	Mx	-.004	48
28	MP3A	X	-8.966	48
29	MP3A	Z	0	48
30	MP3A	Mx	-.004	48
31	M22	X	-21.025	24
32	M22	Z	0	24
33	M22	Mx	0	24

Member Point Loads (BLC 25 : Antenna Wi (300 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	-16.956	18
2	MP4A	Z	-9.79	18
3	MP4A	Mx	.015	18
4	MP4A	X	-16.956	72
5	MP4A	Z	-9.79	72
6	MP4A	Mx	.015	72
7	MP2A	X	-21.573	18
8	MP2A	Z	-12.455	18
9	MP2A	Mx	.001	18
10	MP2A	X	-21.573	72
11	MP2A	Z	-12.455	72
12	MP2A	Mx	.001	72
13	MP2A	X	-21.573	18
14	MP2A	Z	-12.455	18
15	MP2A	Mx	.02	18
16	MP2A	X	-21.573	72
17	MP2A	Z	-12.455	72
18	MP2A	Mx	.02	72
19	MP1A	X	-6.019	33
20	MP1A	Z	-3.475	33



Member Point Loads (BLC 25 : Antenna Wi (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
21	MP1A	Mx	.003	33
22	MP1A	X	-6.019	57
23	MP1A	Z	-3.475	57
24	MP1A	Mx	.003	57
25	MP2A	X	-8.466	48
26	MP2A	Z	-4.888	48
27	MP2A	Mx	-.004	48
28	MP3A	X	-8.566	48
29	MP3A	Z	-4.946	48
30	MP3A	Mx	-.004	48
31	M22	X	-20.519	24
32	M22	Z	-11.846	24
33	M22	Mx	0	24

Member Point Loads (BLC 26 : Antenna Wi (330 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	-11.77	18
2	MP4A	Z	-20.386	18
3	MP4A	Mx	.01	18
4	MP4A	X	-11.77	72
5	MP4A	Z	-20.386	72
6	MP4A	Mx	.01	72
7	MP2A	X	-14.311	18
8	MP2A	Z	-24.787	18
9	MP2A	Mx	-.011	18
10	MP2A	X	-14.311	72
11	MP2A	Z	-24.787	72
12	MP2A	Mx	-.011	72
13	MP2A	X	-14.311	18
14	MP2A	Z	-24.787	18
15	MP2A	Mx	.026	18
16	MP2A	X	-14.311	72
17	MP2A	Z	-24.787	72
18	MP2A	Mx	.026	72
19	MP1A	X	-5.247	33
20	MP1A	Z	-9.089	33
21	MP1A	Mx	.003	33
22	MP1A	X	-5.247	57
23	MP1A	Z	-9.089	57
24	MP1A	Mx	.003	57
25	MP2A	X	-5.852	48
26	MP2A	Z	-10.136	48
27	MP2A	Mx	-.003	48
28	MP3A	X	-5.871	48
29	MP3A	Z	-10.17	48
30	MP3A	Mx	-.003	48
31	M22	X	-12.934	24
32	M22	Z	-22.402	24
33	M22	Mx	0	24

Member Point Loads (BLC 27 : Antenna Wm (0 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	0	18
2	MP4A	Z	-8.331	18
3	MP4A	Mx	0	18
4	MP4A	X	0	72



Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
5	MP4A	Z	-8.331	72
6	MP4A	Mx	0	72
7	MP2A	X	0	18
8	MP2A	Z	-4.823	18
9	MP2A	Mx	-.004	18
10	MP2A	X	0	72
11	MP2A	Z	-4.823	72
12	MP2A	Mx	-.004	72
13	MP2A	X	0	18
14	MP2A	Z	-4.823	18
15	MP2A	Mx	.004	18
16	MP2A	X	0	72
17	MP2A	Z	-4.823	72
18	MP2A	Mx	.004	72
19	MP1A	X	0	33
20	MP1A	Z	-3.865	33
21	MP1A	Mx	0	33
22	MP1A	X	0	57
23	MP1A	Z	-3.865	57
24	MP1A	Mx	0	57
25	MP2A	X	0	48
26	MP2A	Z	-3.161	48
27	MP2A	Mx	0	48
28	MP3A	X	0	48
29	MP3A	Z	-3.814	48
30	MP3A	Mx	0	48
31	M22	X	0	24
32	M22	Z	-6.283	24
33	M22	Mx	0	24

Member Point Loads (BLC 28 : Antenna Wm (30 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	3.813	18
2	MP4A	Z	-6.604	18
3	MP4A	Mx	-.003	18
4	MP4A	X	3.813	72
5	MP4A	Z	-6.604	72
6	MP4A	Mx	-.003	72
7	MP2A	X	2.26	18
8	MP2A	Z	-3.914	18
9	MP2A	Mx	-.004	18
10	MP2A	X	2.26	72
11	MP2A	Z	-3.914	72
12	MP2A	Mx	-.004	72
13	MP2A	X	2.26	18
14	MP2A	Z	-3.914	18
15	MP2A	Mx	.002	18
16	MP2A	X	2.26	72
17	MP2A	Z	-3.914	72
18	MP2A	Mx	.002	72
19	MP1A	X	1.635	33
20	MP1A	Z	-2.832	33
21	MP1A	Mx	-.000818	33
22	MP1A	X	1.635	57
23	MP1A	Z	-2.832	57
24	MP1A	Mx	-.000818	57



Member Point Loads (BLC 28 : Antenna Wm (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
25	MP2A	X	1.45	48
26	MP2A	Z	-2.512	48
27	MP2A	Mx	.000725	48
28	MP3A	X	1.755	48
29	MP3A	Z	-3.04	48
30	MP3A	Mx	.000877	48
31	M22	X	2.778	24
32	M22	Z	-4.811	24
33	M22	Mx	0	24

Member Point Loads (BLC 29 : Antenna Wm (60 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	5.384	18
2	MP4A	Z	-3.108	18
3	MP4A	Mx	-.005	18
4	MP4A	X	5.384	72
5	MP4A	Z	-3.108	72
6	MP4A	Mx	-.005	72
7	MP2A	X	3.389	18
8	MP2A	Z	-1.957	18
9	MP2A	Mx	-.003	18
10	MP2A	X	3.389	72
11	MP2A	Z	-1.957	72
12	MP2A	Mx	-.003	72
13	MP2A	X	3.389	18
14	MP2A	Z	-1.957	18
15	MP2A	Mx	-.000227	18
16	MP2A	X	3.389	72
17	MP2A	Z	-1.957	72
18	MP2A	Mx	-.000227	72
19	MP1A	X	1.803	33
20	MP1A	Z	-1.041	33
21	MP1A	Mx	-.000902	33
22	MP1A	X	1.803	57
23	MP1A	Z	-1.041	57
24	MP1A	Mx	-.000902	57
25	MP2A	X	2.062	48
26	MP2A	Z	-1.19	48
27	MP2A	Mx	.001	48
28	MP3A	X	2.515	48
29	MP3A	Z	-1.452	48
30	MP3A	Mx	.001	48
31	M22	X	4.297	24
32	M22	Z	-2.481	24
33	M22	Mx	0	24

Member Point Loads (BLC 30 : Antenna Wm (90 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	5.512	18
2	MP4A	Z	0	18
3	MP4A	Mx	-.005	18
4	MP4A	X	5.512	72
5	MP4A	Z	0	72
6	MP4A	Mx	-.005	72
7	MP2A	X	3.61	18
8	MP2A	Z	0	18



Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
9	MP2A	Mx	-.002	18
10	MP2A	X	3.61	72
11	MP2A	Z	0	72
12	MP2A	Mx	-.002	72
13	MP2A	X	3.61	18
14	MP2A	Z	0	18
15	MP2A	Mx	-.002	18
16	MP2A	X	3.61	72
17	MP2A	Z	0	72
18	MP2A	Mx	-.002	72
19	MP1A	X	1.488	33
20	MP1A	Z	0	33
21	MP1A	Mx	-.000744	33
22	MP1A	X	1.488	57
23	MP1A	Z	0	57
24	MP1A	Mx	-.000744	57
25	MP2A	X	2.121	48
26	MP2A	Z	0	48
27	MP2A	Mx	.001	48
28	MP3A	X	2.6	48
29	MP3A	Z	0	48
30	MP3A	Mx	.001	48
31	M22	X	5.096	24
32	M22	Z	0	24
33	M22	Mx	0	24

Member Point Loads (BLC 31 : Antenna Wm (120 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP4A	X	5.384	18
2	MP4A	Z	3.108	18
3	MP4A	Mx	-.005	18
4	MP4A	X	5.384	72
5	MP4A	Z	3.108	72
6	MP4A	Mx	-.005	72
7	MP2A	X	3.389	18
8	MP2A	Z	1.957	18
9	MP2A	Mx	-.000227	18
10	MP2A	X	3.389	72
11	MP2A	Z	1.957	72
12	MP2A	Mx	-.000227	72
13	MP2A	X	3.389	18
14	MP2A	Z	1.957	18
15	MP2A	Mx	-.003	18
16	MP2A	X	3.389	72
17	MP2A	Z	1.957	72
18	MP2A	Mx	-.003	72
19	MP1A	X	1.803	33
20	MP1A	Z	1.041	33
21	MP1A	Mx	-.000902	33
22	MP1A	X	1.803	57
23	MP1A	Z	1.041	57
24	MP1A	Mx	-.000902	57
25	MP2A	X	2.062	48
26	MP2A	Z	1.19	48
27	MP2A	Mx	.001	48
28	MP3A	X	2.515	48



Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
29	MP3A	Z	1.452	48
30	MP3A	Mx	.001	48
31	M22	X	5.044	24
32	M22	Z	2.912	24
33	M22	Mx	0	24

Member Point Loads (BLC 32 : Antenna Wm (150 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP4A	X	3.813	18
2	MP4A	Z	6.604	18
3	MP4A	Mx	-.003	18
4	MP4A	X	3.813	72
5	MP4A	Z	6.604	72
6	MP4A	Mx	-.003	72
7	MP2A	X	2.26	18
8	MP2A	Z	3.914	18
9	MP2A	Mx	.002	18
10	MP2A	X	2.26	72
11	MP2A	Z	3.914	72
12	MP2A	Mx	.002	72
13	MP2A	X	2.26	18
14	MP2A	Z	3.914	18
15	MP2A	Mx	-.004	18
16	MP2A	X	2.26	72
17	MP2A	Z	3.914	72
18	MP2A	Mx	-.004	72
19	MP1A	X	1.635	33
20	MP1A	Z	2.832	33
21	MP1A	Mx	-.000818	33
22	MP1A	X	1.635	57
23	MP1A	Z	2.832	57
24	MP1A	Mx	-.000818	57
25	MP2A	X	1.45	48
26	MP2A	Z	2.512	48
27	MP2A	Mx	.000725	48
28	MP3A	X	1.755	48
29	MP3A	Z	3.04	48
30	MP3A	Mx	.000877	48
31	M22	X	3.209	24
32	M22	Z	5.558	24
33	M22	Mx	0	24

Member Point Loads (BLC 33 : Antenna Wm (180 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP4A	X	0	18
2	MP4A	Z	8.331	18
3	MP4A	Mx	0	18
4	MP4A	X	0	72
5	MP4A	Z	8.331	72
6	MP4A	Mx	0	72
7	MP2A	X	0	18
8	MP2A	Z	4.823	18
9	MP2A	Mx	.004	18
10	MP2A	X	0	72
11	MP2A	Z	4.823	72
12	MP2A	Mx	.004	72



Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
13	MP2A	X	0	18
14	MP2A	Z	4.823	18
15	MP2A	Mx	-.004	18
16	MP2A	X	0	72
17	MP2A	Z	4.823	72
18	MP2A	Mx	-.004	72
19	MP1A	X	0	33
20	MP1A	Z	3.865	33
21	MP1A	Mx	0	33
22	MP1A	X	0	57
23	MP1A	Z	3.865	57
24	MP1A	Mx	0	57
25	MP2A	X	0	48
26	MP2A	Z	3.161	48
27	MP2A	Mx	0	48
28	MP3A	X	0	48
29	MP3A	Z	3.814	48
30	MP3A	Mx	0	48
31	M22	X	0	24
32	M22	Z	6.283	24
33	M22	Mx	0	24

Member Point Loads (BLC 34 : Antenna Wm (210 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	-3.813	18
2	MP4A	Z	6.604	18
3	MP4A	Mx	.003	18
4	MP4A	X	-3.813	72
5	MP4A	Z	6.604	72
6	MP4A	Mx	.003	72
7	MP2A	X	-2.26	18
8	MP2A	Z	3.914	18
9	MP2A	Mx	.004	18
10	MP2A	X	-2.26	72
11	MP2A	Z	3.914	72
12	MP2A	Mx	.004	72
13	MP2A	X	-2.26	18
14	MP2A	Z	3.914	18
15	MP2A	Mx	-.002	18
16	MP2A	X	-2.26	72
17	MP2A	Z	3.914	72
18	MP2A	Mx	-.002	72
19	MP1A	X	-1.635	33
20	MP1A	Z	2.832	33
21	MP1A	Mx	.000818	33
22	MP1A	X	-1.635	57
23	MP1A	Z	2.832	57
24	MP1A	Mx	.000818	57
25	MP2A	X	-1.45	48
26	MP2A	Z	2.512	48
27	MP2A	Mx	-.000725	48
28	MP3A	X	-1.755	48
29	MP3A	Z	3.04	48
30	MP3A	Mx	-.000877	48
31	M22	X	-2.778	24
32	M22	Z	4.811	24



Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
33	M22	Mx	0	24

Member Point Loads (BLC 35 : Antenna Wm (240 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP4A	X	-5.384	18
2	MP4A	Z	3.108	18
3	MP4A	Mx	.005	18
4	MP4A	X	-5.384	72
5	MP4A	Z	3.108	72
6	MP4A	Mx	.005	72
7	MP2A	X	-3.389	18
8	MP2A	Z	1.957	18
9	MP2A	Mx	.003	18
10	MP2A	X	-3.389	72
11	MP2A	Z	1.957	72
12	MP2A	Mx	.003	72
13	MP2A	X	-3.389	18
14	MP2A	Z	1.957	18
15	MP2A	Mx	.000227	18
16	MP2A	X	-3.389	72
17	MP2A	Z	1.957	72
18	MP2A	Mx	.000227	72
19	MP1A	X	-1.803	33
20	MP1A	Z	1.041	33
21	MP1A	Mx	.000902	33
22	MP1A	X	-1.803	57
23	MP1A	Z	1.041	57
24	MP1A	Mx	.000902	57
25	MP2A	X	-2.062	48
26	MP2A	Z	1.19	48
27	MP2A	Mx	-.001	48
28	MP3A	X	-2.515	48
29	MP3A	Z	1.452	48
30	MP3A	Mx	-.001	48
31	M22	X	-4.297	24
32	M22	Z	2.481	24
33	M22	Mx	0	24

Member Point Loads (BLC 36 : Antenna Wm (270 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP4A	X	-5.512	18
2	MP4A	Z	0	18
3	MP4A	Mx	.005	18
4	MP4A	X	-5.512	72
5	MP4A	Z	0	72
6	MP4A	Mx	.005	72
7	MP2A	X	-3.61	18
8	MP2A	Z	0	18
9	MP2A	Mx	.002	18
10	MP2A	X	-3.61	72
11	MP2A	Z	0	72
12	MP2A	Mx	.002	72
13	MP2A	X	-3.61	18
14	MP2A	Z	0	18
15	MP2A	Mx	.002	18
16	MP2A	X	-3.61	72



Member Point Loads (BLC 36 : Antenna Wm (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
17	MP2A	Z	0	72
18	MP2A	Mx	.002	72
19	MP1A	X	-1.488	33
20	MP1A	Z	0	33
21	MP1A	Mx	.000744	33
22	MP1A	X	-1.488	57
23	MP1A	Z	0	57
24	MP1A	Mx	.000744	57
25	MP2A	X	-2.121	48
26	MP2A	Z	0	48
27	MP2A	Mx	-.001	48
28	MP3A	X	-2.6	48
29	MP3A	Z	0	48
30	MP3A	Mx	-.001	48
31	M22	X	-5.096	24
32	M22	Z	0	24
33	M22	Mx	0	24

Member Point Loads (BLC 37 : Antenna Wm (300 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP4A	X	-5.384	18
2	MP4A	Z	-3.108	18
3	MP4A	Mx	.005	18
4	MP4A	X	-5.384	72
5	MP4A	Z	-3.108	72
6	MP4A	Mx	.005	72
7	MP2A	X	-3.389	18
8	MP2A	Z	-1.957	18
9	MP2A	Mx	.000227	18
10	MP2A	X	-3.389	72
11	MP2A	Z	-1.957	72
12	MP2A	Mx	.000227	72
13	MP2A	X	-3.389	18
14	MP2A	Z	-1.957	18
15	MP2A	Mx	.003	18
16	MP2A	X	-3.389	72
17	MP2A	Z	-1.957	72
18	MP2A	Mx	.003	72
19	MP1A	X	-1.803	33
20	MP1A	Z	-1.041	33
21	MP1A	Mx	.000902	33
22	MP1A	X	-1.803	57
23	MP1A	Z	-1.041	57
24	MP1A	Mx	.000902	57
25	MP2A	X	-2.062	48
26	MP2A	Z	-1.19	48
27	MP2A	Mx	-.001	48
28	MP3A	X	-2.515	48
29	MP3A	Z	-1.452	48
30	MP3A	Mx	-.001	48
31	M22	X	-5.044	24
32	M22	Z	-2.912	24
33	M22	Mx	0	24

Member Point Loads (BLC 38 : Antenna Wm (330 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
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Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP4A	X	-3.813	18
2	MP4A	Z	-6.604	18
3	MP4A	Mx	.003	18
4	MP4A	X	-3.813	72
5	MP4A	Z	-6.604	72
6	MP4A	Mx	.003	72
7	MP2A	X	-2.26	18
8	MP2A	Z	-3.914	18
9	MP2A	Mx	-.002	18
10	MP2A	X	-2.26	72
11	MP2A	Z	-3.914	72
12	MP2A	Mx	-.002	72
13	MP2A	X	-2.26	18
14	MP2A	Z	-3.914	18
15	MP2A	Mx	.004	18
16	MP2A	X	-2.26	72
17	MP2A	Z	-3.914	72
18	MP2A	Mx	.004	72
19	MP1A	X	-1.635	33
20	MP1A	Z	-2.832	33
21	MP1A	Mx	.000818	33
22	MP1A	X	-1.635	57
23	MP1A	Z	-2.832	57
24	MP1A	Mx	.000818	57
25	MP2A	X	-1.45	48
26	MP2A	Z	-2.512	48
27	MP2A	Mx	-.000725	48
28	MP3A	X	-1.755	48
29	MP3A	Z	-3.04	48
30	MP3A	Mx	-.000877	48
31	M22	X	-3.209	24
32	M22	Z	-5.558	24
33	M22	Mx	0	24

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	M1	Y	-500	%92

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	M1	Y	-500	%50

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	M1	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	M1	Y	-250	%50

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP4A	Y	-.536	18
2	MP4A	My	-.000469	18



Member Point Loads (BLC 81 : Antenna Ev) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
3	MP4A	Mz	0	18
4	MP4A	Y	-.536	72
5	MP4A	My	-.000469	72
6	MP4A	Mz	0	72
7	MP2A	Y	-.937	18
8	MP2A	My	-.000469	18
9	MP2A	Mz	.000703	18
10	MP2A	Y	-.937	72
11	MP2A	My	-.000469	72
12	MP2A	Mz	.000703	72
13	MP2A	Y	-.937	18
14	MP2A	My	-.000469	18
15	MP2A	Mz	-.000703	18
16	MP2A	Y	-.937	72
17	MP2A	My	-.000469	72
18	MP2A	Mz	-.000703	72
19	MP1A	Y	-1.167	33
20	MP1A	My	-.000584	33
21	MP1A	Mz	0	33
22	MP1A	Y	-1.167	57
23	MP1A	My	-.000584	57
24	MP1A	Mz	0	57
25	MP2A	Y	-3.044	48
26	MP2A	My	.002	48
27	MP2A	Mz	0	48
28	MP3A	Y	-3.223	48
29	MP3A	My	.002	48
30	MP3A	Mz	0	48
31	M22	Y	-1.304	24
32	M22	My	0	24
33	M22	Mz	0	24

Member Point Loads (BLC 82 : Antenna Eh (0 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	Z	-1.34	18
2	MP4A	Mx	0	18
3	MP4A	Z	-1.34	72
4	MP4A	Mx	0	72
5	MP2A	Z	-2.343	18
6	MP2A	Mx	-.002	18
7	MP2A	Z	-2.343	72
8	MP2A	Mx	-.002	72
9	MP2A	Z	-2.343	18
10	MP2A	Mx	.002	18
11	MP2A	Z	-2.343	72
12	MP2A	Mx	.002	72
13	MP1A	Z	-2.918	33
14	MP1A	Mx	0	33
15	MP1A	Z	-2.918	57
16	MP1A	Mx	0	57
17	MP2A	Z	-7.609	48
18	MP2A	Mx	0	48
19	MP3A	Z	-8.058	48
20	MP3A	Mx	0	48
21	M22	Z	-3.26	24
22	M22	Mx	0	24



Member Point Loads (BLC 83 : Antenna Eh (90 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP4A	X	1.34	18
2	MP4A	Mx	-.001	18
3	MP4A	X	1.34	72
4	MP4A	Mx	-.001	72
5	MP2A	X	2.343	18
6	MP2A	Mx	-.001	18
7	MP2A	X	2.343	72
8	MP2A	Mx	-.001	72
9	MP2A	X	2.343	18
10	MP2A	Mx	-.001	18
11	MP2A	X	2.343	72
12	MP2A	Mx	-.001	72
13	MP1A	X	2.918	33
14	MP1A	Mx	-.001	33
15	MP1A	X	2.918	57
16	MP1A	Mx	-.001	57
17	MP2A	X	7.609	48
18	MP2A	Mx	.004	48
19	MP3A	X	8.058	48
20	MP3A	Mx	.004	48
21	M22	X	3.26	24
22	M22	Mx	0	24

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[in.%]	End Location[in.%]
1	M1	Y	-4.956	-4.956	0	%100
2	M2	Y	-4.956	-4.956	0	%100
3	MP4A	Y	-4.956	-4.956	0	%100
4	MP2A	Y	-4.956	-4.956	0	%100
5	MP3A	Y	-4.956	-4.956	0	%100
6	M15	Y	-6.588	-6.588	0	%100
7	M17	Y	-6.588	-6.588	0	%100
8	M19	Y	-2.672	-2.672	0	%100
9	M22	Y	-6.538	-6.538	0	%100
10	M23	Y	-4.956	-4.956	0	%100
11	MP1A	Y	-4.956	-4.956	0	%100
12	M24A	Y	-6.588	-6.588	0	%100
13	M25	Y	-6.588	-6.588	0	%100

Member Distributed Loads (BLC 41 : Structure Wo (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[in.%]	End Location[in.%]
1	M1	X	0	0	0	%100
2	M1	Z	-7.75	-7.75	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-7.75	-7.75	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	-7.75	-7.75	0	%100
7	MP2A	X	0	0	0	%100
8	MP2A	Z	-7.75	-7.75	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	-7.75	-7.75	0	%100
11	M15	X	0	0	0	%100
12	M15	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	0	0	0	%100



Member Distributed Loads (BLC 41 : Structure Wo (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
15	M19	X	0	0	0	%100
16	M19	Z	-2.447	-2.447	0	%100
17	M22	X	0	0	0	%100
18	M22	Z	-9.034	-9.034	0	%100
19	M23	X	0	0	0	%100
20	M23	Z	-1.529	-1.529	0	%100
21	MP1A	X	0	0	0	%100
22	MP1A	Z	-7.75	-7.75	0	%100
23	M24A	X	0	0	0	%100
24	M24A	Z	-11.59	-11.59	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	-11.979	-11.979	0	%100

Member Distributed Loads (BLC 42 : Structure Wo (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	2.906	2.906	0	%100
2	M1	Z	-5.033	-5.033	0	%100
3	M2	X	2.906	2.906	0	%100
4	M2	Z	-5.033	-5.033	0	%100
5	MP4A	X	3.875	3.875	0	%100
6	MP4A	Z	-6.711	-6.711	0	%100
7	MP2A	X	3.875	3.875	0	%100
8	MP2A	Z	-6.711	-6.711	0	%100
9	MP3A	X	3.875	3.875	0	%100
10	MP3A	Z	-6.711	-6.711	0	%100
11	M15	X	.808	.808	0	%100
12	M15	Z	-1.399	-1.399	0	%100
13	M17	X	.808	.808	0	%100
14	M17	Z	-1.399	-1.399	0	%100
15	M19	X	1.224	1.224	0	%100
16	M19	Z	-2.119	-2.119	0	%100
17	M22	X	4.517	4.517	0	%100
18	M22	Z	-7.823	-7.823	0	%100
19	M23	X	2.686	2.686	0	%100
20	M23	Z	-4.653	-4.653	0	%100
21	MP1A	X	3.875	3.875	0	%100
22	MP1A	Z	-6.711	-6.711	0	%100
23	M24A	X	2.703	2.703	0	%100
24	M24A	Z	-4.682	-4.682	0	%100
25	M25	X	6.632	6.632	0	%100
26	M25	Z	-11.486	-11.486	0	%100

Member Distributed Loads (BLC 43 : Structure Wo (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	1.678	1.678	0	%100
2	M1	Z	-.969	-.969	0	%100
3	M2	X	1.678	1.678	0	%100
4	M2	Z	-.969	-.969	0	%100
5	MP4A	X	6.711	6.711	0	%100
6	MP4A	Z	-3.875	-3.875	0	%100
7	MP2A	X	6.711	6.711	0	%100
8	MP2A	Z	-3.875	-3.875	0	%100
9	MP3A	X	6.711	6.711	0	%100
10	MP3A	Z	-3.875	-3.875	0	%100
11	M15	X	4.197	4.197	0	%100
12	M15	Z	-2.423	-2.423	0	%100



Member Distributed Loads (BLC 43 : Structure Wo (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
13	M17	X	4.197	4.197	0	%100
14	M17	Z	-2.423	-2.423	0	%100
15	M19	X	2.119	2.119	0	%100
16	M19	Z	-1.224	-1.224	0	%100
17	M22	X	7.823	7.823	0	%100
18	M22	Z	-4.517	-4.517	0	%100
19	M23	X	6.684	6.684	0	%100
20	M23	Z	-3.859	-3.859	0	%100
21	MP1A	X	6.711	6.711	0	%100
22	MP1A	Z	-3.875	-3.875	0	%100
23	M24A	X	.92	.92	0	%100
24	M24A	Z	-.531	-.531	0	%100
25	M25	X	7.311	7.311	0	%100
26	M25	Z	-4.221	-4.221	0	%100

Member Distributed Loads (BLC 44 : Structure Wo (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	7.75	7.75	0	%100
6	MP4A	Z	0	0	0	%100
7	MP2A	X	7.75	7.75	0	%100
8	MP2A	Z	0	0	0	%100
9	MP3A	X	7.75	7.75	0	%100
10	MP3A	Z	0	0	0	%100
11	M15	X	6.462	6.462	0	%100
12	M15	Z	0	0	0	%100
13	M17	X	6.462	6.462	0	%100
14	M17	Z	0	0	0	%100
15	M19	X	2.447	2.447	0	%100
16	M19	Z	0	0	0	%100
17	M22	X	9.034	9.034	0	%100
18	M22	Z	0	0	0	%100
19	M23	X	6.221	6.221	0	%100
20	M23	Z	0	0	0	%100
21	MP1A	X	7.75	7.75	0	%100
22	MP1A	Z	0	0	0	%100
23	M24A	X	2.901	2.901	0	%100
24	M24A	Z	0	0	0	%100
25	M25	X	2.338	2.338	0	%100
26	M25	Z	0	0	0	%100

Member Distributed Loads (BLC 45 : Structure Wo (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	1.678	1.678	0	%100
2	M1	Z	.969	.969	0	%100
3	M2	X	1.678	1.678	0	%100
4	M2	Z	.969	.969	0	%100
5	MP4A	X	6.711	6.711	0	%100
6	MP4A	Z	3.875	3.875	0	%100
7	MP2A	X	6.711	6.711	0	%100
8	MP2A	Z	3.875	3.875	0	%100
9	MP3A	X	6.711	6.711	0	%100
10	MP3A	Z	3.875	3.875	0	%100



Member Distributed Loads (BLC 45 : Structure Wo (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
11	M15	X	4.197	4.197	0	%100
12	M15	Z	2.423	2.423	0	%100
13	M17	X	4.197	4.197	0	%100
14	M17	Z	2.423	2.423	0	%100
15	M19	X	2.119	2.119	0	%100
16	M19	Z	1.224	1.224	0	%100
17	M22	X	7.823	7.823	0	%100
18	M22	Z	4.517	4.517	0	%100
19	M23	X	2.059	2.059	0	%100
20	M23	Z	1.189	1.189	0	%100
21	MP1A	X	6.711	6.711	0	%100
22	MP1A	Z	3.875	3.875	0	%100
23	M24A	X	7.867	7.867	0	%100
24	M24A	Z	4.542	4.542	0	%100
25	M25	X	.913	.913	0	%100
26	M25	Z	.527	.527	0	%100

Member Distributed Loads (BLC 46 : Structure Wo (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	2.906	2.906	0	%100
2	M1	Z	5.033	5.033	0	%100
3	M2	X	2.906	2.906	0	%100
4	M2	Z	5.033	5.033	0	%100
5	MP4A	X	3.875	3.875	0	%100
6	MP4A	Z	6.711	6.711	0	%100
7	MP2A	X	3.875	3.875	0	%100
8	MP2A	Z	6.711	6.711	0	%100
9	MP3A	X	3.875	3.875	0	%100
10	MP3A	Z	6.711	6.711	0	%100
11	M15	X	.808	.808	0	%100
12	M15	Z	1.399	1.399	0	%100
13	M17	X	.808	.808	0	%100
14	M17	Z	1.399	1.399	0	%100
15	M19	X	1.224	1.224	0	%100
16	M19	Z	2.119	2.119	0	%100
17	M22	X	4.517	4.517	0	%100
18	M22	Z	7.823	7.823	0	%100
19	M23	X	.016	.016	0	%100
20	M23	Z	.027	.027	0	%100
21	MP1A	X	3.875	3.875	0	%100
22	MP1A	Z	6.711	6.711	0	%100
23	M24A	X	6.714	6.714	0	%100
24	M24A	Z	11.63	11.63	0	%100
25	M25	X	2.937	2.937	0	%100
26	M25	Z	5.088	5.088	0	%100

Member Distributed Loads (BLC 47 : Structure Wo (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	0	0	0	%100
2	M1	Z	7.75	7.75	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	7.75	7.75	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	7.75	7.75	0	%100
7	MP2A	X	0	0	0	%100
8	MP2A	Z	7.75	7.75	0	%100



Member Distributed Loads (BLC 47 : Structure Wo (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
9	MP3A	X	0	0	0	%100
10	MP3A	Z	7.75	7.75	0	%100
11	M15	X	0	0	0	%100
12	M15	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	0	0	0	%100
15	M19	X	0	0	0	%100
16	M19	Z	2.447	2.447	0	%100
17	M22	X	0	0	0	%100
18	M22	Z	9.034	9.034	0	%100
19	M23	X	0	0	0	%100
20	M23	Z	1.529	1.529	0	%100
21	MP1A	X	0	0	0	%100
22	MP1A	Z	7.75	7.75	0	%100
23	M24A	X	0	0	0	%100
24	M24A	Z	11.59	11.59	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	11.979	11.979	0	%100

Member Distributed Loads (BLC 48 : Structure Wo (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	-2.906	-2.906	0	%100
2	M1	Z	5.033	5.033	0	%100
3	M2	X	-2.906	-2.906	0	%100
4	M2	Z	5.033	5.033	0	%100
5	MP4A	X	-3.875	-3.875	0	%100
6	MP4A	Z	6.711	6.711	0	%100
7	MP2A	X	-3.875	-3.875	0	%100
8	MP2A	Z	6.711	6.711	0	%100
9	MP3A	X	-3.875	-3.875	0	%100
10	MP3A	Z	6.711	6.711	0	%100
11	M15	X	-0.808	-0.808	0	%100
12	M15	Z	1.399	1.399	0	%100
13	M17	X	-0.808	-0.808	0	%100
14	M17	Z	1.399	1.399	0	%100
15	M19	X	-1.224	-1.224	0	%100
16	M19	Z	2.119	2.119	0	%100
17	M22	X	-4.517	-4.517	0	%100
18	M22	Z	7.823	7.823	0	%100
19	M23	X	-2.686	-2.686	0	%100
20	M23	Z	4.653	4.653	0	%100
21	MP1A	X	-3.875	-3.875	0	%100
22	MP1A	Z	6.711	6.711	0	%100
23	M24A	X	-2.703	-2.703	0	%100
24	M24A	Z	4.682	4.682	0	%100
25	M25	X	-6.632	-6.632	0	%100
26	M25	Z	11.486	11.486	0	%100

Member Distributed Loads (BLC 49 : Structure Wo (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	-1.678	-1.678	0	%100
2	M1	Z	.969	.969	0	%100
3	M2	X	-1.678	-1.678	0	%100
4	M2	Z	.969	.969	0	%100
5	MP4A	X	-6.711	-6.711	0	%100
6	MP4A	Z	3.875	3.875	0	%100



Member Distributed Loads (BLC 49 : Structure Wo (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
7	MP2A	X	-6.711	-6.711	0	%100
8	MP2A	Z	3.875	3.875	0	%100
9	MP3A	X	-6.711	-6.711	0	%100
10	MP3A	Z	3.875	3.875	0	%100
11	M15	X	-4.197	-4.197	0	%100
12	M15	Z	2.423	2.423	0	%100
13	M17	X	-4.197	-4.197	0	%100
14	M17	Z	2.423	2.423	0	%100
15	M19	X	-2.119	-2.119	0	%100
16	M19	Z	1.224	1.224	0	%100
17	M22	X	-7.823	-7.823	0	%100
18	M22	Z	4.517	4.517	0	%100
19	M23	X	-6.684	-6.684	0	%100
20	M23	Z	3.859	3.859	0	%100
21	MP1A	X	-6.711	-6.711	0	%100
22	MP1A	Z	3.875	3.875	0	%100
23	M24A	X	-.92	-.92	0	%100
24	M24A	Z	.531	.531	0	%100
25	M25	X	-7.311	-7.311	0	%100
26	M25	Z	4.221	4.221	0	%100

Member Distributed Loads (BLC 50 : Structure Wo (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	-7.75	-7.75	0	%100
6	MP4A	Z	0	0	0	%100
7	MP2A	X	-7.75	-7.75	0	%100
8	MP2A	Z	0	0	0	%100
9	MP3A	X	-7.75	-7.75	0	%100
10	MP3A	Z	0	0	0	%100
11	M15	X	-6.462	-6.462	0	%100
12	M15	Z	0	0	0	%100
13	M17	X	-6.462	-6.462	0	%100
14	M17	Z	0	0	0	%100
15	M19	X	-2.447	-2.447	0	%100
16	M19	Z	0	0	0	%100
17	M22	X	-9.034	-9.034	0	%100
18	M22	Z	0	0	0	%100
19	M23	X	-6.221	-6.221	0	%100
20	M23	Z	0	0	0	%100
21	MP1A	X	-7.75	-7.75	0	%100
22	MP1A	Z	0	0	0	%100
23	M24A	X	-2.901	-2.901	0	%100
24	M24A	Z	0	0	0	%100
25	M25	X	-2.338	-2.338	0	%100
26	M25	Z	0	0	0	%100

Member Distributed Loads (BLC 51 : Structure Wo (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	-1.678	-1.678	0	%100
2	M1	Z	-.969	-.969	0	%100
3	M2	X	-1.678	-1.678	0	%100
4	M2	Z	-.969	-.969	0	%100



Member Distributed Loads (BLC 51 : Structure Wo (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
5	MP4A	X	-6.711	-6.711	0	%100
6	MP4A	Z	-3.875	-3.875	0	%100
7	MP2A	X	-6.711	-6.711	0	%100
8	MP2A	Z	-3.875	-3.875	0	%100
9	MP3A	X	-6.711	-6.711	0	%100
10	MP3A	Z	-3.875	-3.875	0	%100
11	M15	X	-4.197	-4.197	0	%100
12	M15	Z	-2.423	-2.423	0	%100
13	M17	X	-4.197	-4.197	0	%100
14	M17	Z	-2.423	-2.423	0	%100
15	M19	X	-2.119	-2.119	0	%100
16	M19	Z	-1.224	-1.224	0	%100
17	M22	X	-7.823	-7.823	0	%100
18	M22	Z	-4.517	-4.517	0	%100
19	M23	X	-2.059	-2.059	0	%100
20	M23	Z	-1.189	-1.189	0	%100
21	MP1A	X	-6.711	-6.711	0	%100
22	MP1A	Z	-3.875	-3.875	0	%100
23	M24A	X	-7.867	-7.867	0	%100
24	M24A	Z	-4.542	-4.542	0	%100
25	M25	X	-.913	-.913	0	%100
26	M25	Z	-.527	-.527	0	%100

Member Distributed Loads (BLC 52 : Structure Wo (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	-2.906	-2.906	0	%100
2	M1	Z	-5.033	-5.033	0	%100
3	M2	X	-2.906	-2.906	0	%100
4	M2	Z	-5.033	-5.033	0	%100
5	MP4A	X	-3.875	-3.875	0	%100
6	MP4A	Z	-6.711	-6.711	0	%100
7	MP2A	X	-3.875	-3.875	0	%100
8	MP2A	Z	-6.711	-6.711	0	%100
9	MP3A	X	-3.875	-3.875	0	%100
10	MP3A	Z	-6.711	-6.711	0	%100
11	M15	X	-.808	-.808	0	%100
12	M15	Z	-1.399	-1.399	0	%100
13	M17	X	-.808	-.808	0	%100
14	M17	Z	-1.399	-1.399	0	%100
15	M19	X	-1.224	-1.224	0	%100
16	M19	Z	-2.119	-2.119	0	%100
17	M22	X	-4.517	-4.517	0	%100
18	M22	Z	-7.823	-7.823	0	%100
19	M23	X	-.016	-.016	0	%100
20	M23	Z	-.027	-.027	0	%100
21	MP1A	X	-3.875	-3.875	0	%100
22	MP1A	Z	-6.711	-6.711	0	%100
23	M24A	X	-6.714	-6.714	0	%100
24	M24A	Z	-11.63	-11.63	0	%100
25	M25	X	-2.937	-2.937	0	%100
26	M25	Z	-5.088	-5.088	0	%100

Member Distributed Loads (BLC 53 : Structure Wi (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	0	0	0	%100
2	M1	Z	-2.649	-2.649	0	%100



Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
3	M2	X	0	0	0	%100
4	M2	Z	-2.649	-2.649	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	-2.649	-2.649	0	%100
7	MP2A	X	0	0	0	%100
8	MP2A	Z	-2.649	-2.649	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	-2.649	-2.649	0	%100
11	M15	X	0	0	0	%100
12	M15	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	0	0	0	%100
15	M19	X	0	0	0	%100
16	M19	Z	-1.44	-1.44	0	%100
17	M22	X	0	0	0	%100
18	M22	Z	-2.772	-2.772	0	%100
19	M23	X	0	0	0	%100
20	M23	Z	-.523	-.523	0	%100
21	MP1A	X	0	0	0	%100
22	MP1A	Z	-2.649	-2.649	0	%100
23	M24A	X	0	0	0	%100
24	M24A	Z	-3.124	-3.124	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	-3.228	-3.228	0	%100

Member Distributed Loads (BLC 54 : Structure Wi (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	.993	.993	0	%100
2	M1	Z	-1.721	-1.721	0	%100
3	M2	X	.993	.993	0	%100
4	M2	Z	-1.721	-1.721	0	%100
5	MP4A	X	1.325	1.325	0	%100
6	MP4A	Z	-2.294	-2.294	0	%100
7	MP2A	X	1.325	1.325	0	%100
8	MP2A	Z	-2.294	-2.294	0	%100
9	MP3A	X	1.325	1.325	0	%100
10	MP3A	Z	-2.294	-2.294	0	%100
11	M15	X	.259	.259	0	%100
12	M15	Z	-.449	-.449	0	%100
13	M17	X	.259	.259	0	%100
14	M17	Z	-.449	-.449	0	%100
15	M19	X	.72	.72	0	%100
16	M19	Z	-1.247	-1.247	0	%100
17	M22	X	1.386	1.386	0	%100
18	M22	Z	-2.401	-2.401	0	%100
19	M23	X	.918	.918	0	%100
20	M23	Z	-1.59	-1.59	0	%100
21	MP1A	X	1.325	1.325	0	%100
22	MP1A	Z	-2.294	-2.294	0	%100
23	M24A	X	.729	.729	0	%100
24	M24A	Z	-1.262	-1.262	0	%100
25	M25	X	1.787	1.787	0	%100
26	M25	Z	-3.096	-3.096	0	%100

Member Distributed Loads (BLC 55 : Structure Wi (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
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Member Distributed Loads (BLC 55 : Structure Wi (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	.574	.574	0	%100
2	M1	Z	-.331	-.331	0	%100
3	M2	X	.574	.574	0	%100
4	M2	Z	-.331	-.331	0	%100
5	MP4A	X	2.294	2.294	0	%100
6	MP4A	Z	-1.325	-1.325	0	%100
7	MP2A	X	2.294	2.294	0	%100
8	MP2A	Z	-1.325	-1.325	0	%100
9	MP3A	X	2.294	2.294	0	%100
10	MP3A	Z	-1.325	-1.325	0	%100
11	M15	X	1.347	1.347	0	%100
12	M15	Z	-.778	-.778	0	%100
13	M17	X	1.347	1.347	0	%100
14	M17	Z	-.778	-.778	0	%100
15	M19	X	1.247	1.247	0	%100
16	M19	Z	-.72	-.72	0	%100
17	M22	X	2.401	2.401	0	%100
18	M22	Z	-1.386	-1.386	0	%100
19	M23	X	2.285	2.285	0	%100
20	M23	Z	-1.319	-1.319	0	%100
21	MP1A	X	2.294	2.294	0	%100
22	MP1A	Z	-1.325	-1.325	0	%100
23	M24A	X	.248	.248	0	%100
24	M24A	Z	-.143	-.143	0	%100
25	M25	X	1.97	1.97	0	%100
26	M25	Z	-1.138	-1.138	0	%100

Member Distributed Loads (BLC 56 : Structure Wi (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	2.649	2.649	0	%100
6	MP4A	Z	0	0	0	%100
7	MP2A	X	2.649	2.649	0	%100
8	MP2A	Z	0	0	0	%100
9	MP3A	X	2.649	2.649	0	%100
10	MP3A	Z	0	0	0	%100
11	M15	X	2.074	2.074	0	%100
12	M15	Z	0	0	0	%100
13	M17	X	2.074	2.074	0	%100
14	M17	Z	0	0	0	%100
15	M19	X	1.44	1.44	0	%100
16	M19	Z	0	0	0	%100
17	M22	X	2.772	2.772	0	%100
18	M22	Z	0	0	0	%100
19	M23	X	2.126	2.126	0	%100
20	M23	Z	0	0	0	%100
21	MP1A	X	2.649	2.649	0	%100
22	MP1A	Z	0	0	0	%100
23	M24A	X	.782	.782	0	%100
24	M24A	Z	0	0	0	%100
25	M25	X	.63	.63	0	%100
26	M25	Z	0	0	0	%100



Member Distributed Loads (BLC 57 : Structure Wi (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	.574	.574	0	%100
2	M1	Z	.331	.331	0	%100
3	M2	X	.574	.574	0	%100
4	M2	Z	.331	.331	0	%100
5	MP4A	X	2.294	2.294	0	%100
6	MP4A	Z	1.325	1.325	0	%100
7	MP2A	X	2.294	2.294	0	%100
8	MP2A	Z	1.325	1.325	0	%100
9	MP3A	X	2.294	2.294	0	%100
10	MP3A	Z	1.325	1.325	0	%100
11	M15	X	1.347	1.347	0	%100
12	M15	Z	.778	.778	0	%100
13	M17	X	1.347	1.347	0	%100
14	M17	Z	.778	.778	0	%100
15	M19	X	1.247	1.247	0	%100
16	M19	Z	.72	.72	0	%100
17	M22	X	2.401	2.401	0	%100
18	M22	Z	1.386	1.386	0	%100
19	M23	X	.704	.704	0	%100
20	M23	Z	.406	.406	0	%100
21	MP1A	X	2.294	2.294	0	%100
22	MP1A	Z	1.325	1.325	0	%100
23	M24A	X	2.12	2.12	0	%100
24	M24A	Z	1.224	1.224	0	%100
25	M25	X	.246	.246	0	%100
26	M25	Z	.142	.142	0	%100

Member Distributed Loads (BLC 58 : Structure Wi (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	.993	.993	0	%100
2	M1	Z	1.721	1.721	0	%100
3	M2	X	.993	.993	0	%100
4	M2	Z	1.721	1.721	0	%100
5	MP4A	X	1.325	1.325	0	%100
6	MP4A	Z	2.294	2.294	0	%100
7	MP2A	X	1.325	1.325	0	%100
8	MP2A	Z	2.294	2.294	0	%100
9	MP3A	X	1.325	1.325	0	%100
10	MP3A	Z	2.294	2.294	0	%100
11	M15	X	.259	.259	0	%100
12	M15	Z	.449	.449	0	%100
13	M17	X	.259	.259	0	%100
14	M17	Z	.449	.449	0	%100
15	M19	X	.72	.72	0	%100
16	M19	Z	1.247	1.247	0	%100
17	M22	X	1.386	1.386	0	%100
18	M22	Z	2.401	2.401	0	%100
19	M23	X	.005	.005	0	%100
20	M23	Z	.009	.009	0	%100
21	MP1A	X	1.325	1.325	0	%100
22	MP1A	Z	2.294	2.294	0	%100
23	M24A	X	1.809	1.809	0	%100
24	M24A	Z	3.134	3.134	0	%100
25	M25	X	.792	.792	0	%100
26	M25	Z	1.371	1.371	0	%100



Member Distributed Loads (BLC 59 : Structure Wi (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	0	0	0	%100
2	M1	Z	2.649	2.649	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	2.649	2.649	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	2.649	2.649	0	%100
7	MP2A	X	0	0	0	%100
8	MP2A	Z	2.649	2.649	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	2.649	2.649	0	%100
11	M15	X	0	0	0	%100
12	M15	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	0	0	0	%100
15	M19	X	0	0	0	%100
16	M19	Z	1.44	1.44	0	%100
17	M22	X	0	0	0	%100
18	M22	Z	2.772	2.772	0	%100
19	M23	X	0	0	0	%100
20	M23	Z	.523	.523	0	%100
21	MP1A	X	0	0	0	%100
22	MP1A	Z	2.649	2.649	0	%100
23	M24A	X	0	0	0	%100
24	M24A	Z	3.124	3.124	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	3.228	3.228	0	%100

Member Distributed Loads (BLC 60 : Structure Wi (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	-.993	-.993	0	%100
2	M1	Z	1.721	1.721	0	%100
3	M2	X	-.993	-.993	0	%100
4	M2	Z	1.721	1.721	0	%100
5	MP4A	X	-1.325	-1.325	0	%100
6	MP4A	Z	2.294	2.294	0	%100
7	MP2A	X	-1.325	-1.325	0	%100
8	MP2A	Z	2.294	2.294	0	%100
9	MP3A	X	-1.325	-1.325	0	%100
10	MP3A	Z	2.294	2.294	0	%100
11	M15	X	-.259	-.259	0	%100
12	M15	Z	.449	.449	0	%100
13	M17	X	-.259	-.259	0	%100
14	M17	Z	.449	.449	0	%100
15	M19	X	-.72	-.72	0	%100
16	M19	Z	1.247	1.247	0	%100
17	M22	X	-1.386	-1.386	0	%100
18	M22	Z	2.401	2.401	0	%100
19	M23	X	-.918	-.918	0	%100
20	M23	Z	1.59	1.59	0	%100
21	MP1A	X	-1.325	-1.325	0	%100
22	MP1A	Z	2.294	2.294	0	%100
23	M24A	X	-.729	-.729	0	%100
24	M24A	Z	1.262	1.262	0	%100
25	M25	X	-1.787	-1.787	0	%100
26	M25	Z	3.096	3.096	0	%100



Member Distributed Loads (BLC 61 : Structure Wi (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	-.574	-.574	0	%100
2	M1	Z	.331	.331	0	%100
3	M2	X	-.574	-.574	0	%100
4	M2	Z	.331	.331	0	%100
5	MP4A	X	-2.294	-2.294	0	%100
6	MP4A	Z	1.325	1.325	0	%100
7	MP2A	X	-2.294	-2.294	0	%100
8	MP2A	Z	1.325	1.325	0	%100
9	MP3A	X	-2.294	-2.294	0	%100
10	MP3A	Z	1.325	1.325	0	%100
11	M15	X	-1.347	-1.347	0	%100
12	M15	Z	.778	.778	0	%100
13	M17	X	-1.347	-1.347	0	%100
14	M17	Z	.778	.778	0	%100
15	M19	X	-1.247	-1.247	0	%100
16	M19	Z	.72	.72	0	%100
17	M22	X	-2.401	-2.401	0	%100
18	M22	Z	1.386	1.386	0	%100
19	M23	X	-2.285	-2.285	0	%100
20	M23	Z	1.319	1.319	0	%100
21	MP1A	X	-2.294	-2.294	0	%100
22	MP1A	Z	1.325	1.325	0	%100
23	M24A	X	-.248	-.248	0	%100
24	M24A	Z	.143	.143	0	%100
25	M25	X	-1.97	-1.97	0	%100
26	M25	Z	1.138	1.138	0	%100

Member Distributed Loads (BLC 62 : Structure Wi (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	-2.649	-2.649	0	%100
6	MP4A	Z	0	0	0	%100
7	MP2A	X	-2.649	-2.649	0	%100
8	MP2A	Z	0	0	0	%100
9	MP3A	X	-2.649	-2.649	0	%100
10	MP3A	Z	0	0	0	%100
11	M15	X	-2.074	-2.074	0	%100
12	M15	Z	0	0	0	%100
13	M17	X	-2.074	-2.074	0	%100
14	M17	Z	0	0	0	%100
15	M19	X	-1.44	-1.44	0	%100
16	M19	Z	0	0	0	%100
17	M22	X	-2.772	-2.772	0	%100
18	M22	Z	0	0	0	%100
19	M23	X	-2.126	-2.126	0	%100
20	M23	Z	0	0	0	%100
21	MP1A	X	-2.649	-2.649	0	%100
22	MP1A	Z	0	0	0	%100
23	M24A	X	-.782	-.782	0	%100
24	M24A	Z	0	0	0	%100
25	M25	X	-.63	-.63	0	%100
26	M25	Z	0	0	0	%100

Member Distributed Loads (BLC 63 : Structure Wi (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	-574	-574	0	%100
2	M1	Z	-331	-331	0	%100
3	M2	X	-574	-574	0	%100
4	M2	Z	-331	-331	0	%100
5	MP4A	X	-2.294	-2.294	0	%100
6	MP4A	Z	-1.325	-1.325	0	%100
7	MP2A	X	-2.294	-2.294	0	%100
8	MP2A	Z	-1.325	-1.325	0	%100
9	MP3A	X	-2.294	-2.294	0	%100
10	MP3A	Z	-1.325	-1.325	0	%100
11	M15	X	-1.347	-1.347	0	%100
12	M15	Z	-778	-778	0	%100
13	M17	X	-1.347	-1.347	0	%100
14	M17	Z	-778	-778	0	%100
15	M19	X	-1.247	-1.247	0	%100
16	M19	Z	-72	-72	0	%100
17	M22	X	-2.401	-2.401	0	%100
18	M22	Z	-1.386	-1.386	0	%100
19	M23	X	-704	-704	0	%100
20	M23	Z	-406	-406	0	%100
21	MP1A	X	-2.294	-2.294	0	%100
22	MP1A	Z	-1.325	-1.325	0	%100
23	M24A	X	-2.12	-2.12	0	%100
24	M24A	Z	-1.224	-1.224	0	%100
25	M25	X	-246	-246	0	%100
26	M25	Z	-142	-142	0	%100

Member Distributed Loads (BLC 64 : Structure Wi (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	-993	-993	0	%100
2	M1	Z	-1.721	-1.721	0	%100
3	M2	X	-993	-993	0	%100
4	M2	Z	-1.721	-1.721	0	%100
5	MP4A	X	-1.325	-1.325	0	%100
6	MP4A	Z	-2.294	-2.294	0	%100
7	MP2A	X	-1.325	-1.325	0	%100
8	MP2A	Z	-2.294	-2.294	0	%100
9	MP3A	X	-1.325	-1.325	0	%100
10	MP3A	Z	-2.294	-2.294	0	%100
11	M15	X	-259	-259	0	%100
12	M15	Z	-449	-449	0	%100
13	M17	X	-259	-259	0	%100
14	M17	Z	-449	-449	0	%100
15	M19	X	-72	-72	0	%100
16	M19	Z	-1.247	-1.247	0	%100
17	M22	X	-1.386	-1.386	0	%100
18	M22	Z	-2.401	-2.401	0	%100
19	M23	X	-005	-005	0	%100
20	M23	Z	-009	-009	0	%100
21	MP1A	X	-1.325	-1.325	0	%100
22	MP1A	Z	-2.294	-2.294	0	%100
23	M24A	X	-1.809	-1.809	0	%100
24	M24A	Z	-3.134	-3.134	0	%100
25	M25	X	-792	-792	0	%100
26	M25	Z	-1.371	-1.371	0	%100



Member Distributed Loads (BLC 65 : Structure Wm (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	0	0	0	%100
2	M1	Z	-.484	-.484	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.484	-.484	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	-.484	-.484	0	%100
7	MP2A	X	0	0	0	%100
8	MP2A	Z	-.484	-.484	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	-.484	-.484	0	%100
11	M15	X	0	0	0	%100
12	M15	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	0	0	0	%100
15	M19	X	0	0	0	%100
16	M19	Z	-.153	-.153	0	%100
17	M22	X	0	0	0	%100
18	M22	Z	-.565	-.565	0	%100
19	M23	X	0	0	0	%100
20	M23	Z	-.096	-.096	0	%100
21	MP1A	X	0	0	0	%100
22	MP1A	Z	-.484	-.484	0	%100
23	M24A	X	0	0	0	%100
24	M24A	Z	-.724	-.724	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	-.749	-.749	0	%100

Member Distributed Loads (BLC 66 : Structure Wm (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	.182	.182	0	%100
2	M1	Z	-.315	-.315	0	%100
3	M2	X	.182	.182	0	%100
4	M2	Z	-.315	-.315	0	%100
5	MP4A	X	.242	.242	0	%100
6	MP4A	Z	-.419	-.419	0	%100
7	MP2A	X	.242	.242	0	%100
8	MP2A	Z	-.419	-.419	0	%100
9	MP3A	X	.242	.242	0	%100
10	MP3A	Z	-.419	-.419	0	%100
11	M15	X	.05	.05	0	%100
12	M15	Z	-.087	-.087	0	%100
13	M17	X	.05	.05	0	%100
14	M17	Z	-.087	-.087	0	%100
15	M19	X	.076	.076	0	%100
16	M19	Z	-.132	-.132	0	%100
17	M22	X	.282	.282	0	%100
18	M22	Z	-.489	-.489	0	%100
19	M23	X	.168	.168	0	%100
20	M23	Z	-.291	-.291	0	%100
21	MP1A	X	.242	.242	0	%100
22	MP1A	Z	-.419	-.419	0	%100
23	M24A	X	.169	.169	0	%100
24	M24A	Z	-.293	-.293	0	%100
25	M25	X	.414	.414	0	%100
26	M25	Z	-.718	-.718	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project No. 10213280
 Model Name : 5000384285-VZW_MT_LOT_SectorA_H

Nov 15, 2023
 12:27 PM
 Checked By: _____

Member Distributed Loads (BLC 67 : Structure Wm (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	.105	.105	0	%100
2	M1	Z	-.061	-.061	0	%100
3	M2	X	.105	.105	0	%100
4	M2	Z	-.061	-.061	0	%100
5	MP4A	X	.419	.419	0	%100
6	MP4A	Z	-.242	-.242	0	%100
7	MP2A	X	.419	.419	0	%100
8	MP2A	Z	-.242	-.242	0	%100
9	MP3A	X	.419	.419	0	%100
10	MP3A	Z	-.242	-.242	0	%100
11	M15	X	.262	.262	0	%100
12	M15	Z	-.151	-.151	0	%100
13	M17	X	.262	.262	0	%100
14	M17	Z	-.151	-.151	0	%100
15	M19	X	.132	.132	0	%100
16	M19	Z	-.076	-.076	0	%100
17	M22	X	.489	.489	0	%100
18	M22	Z	-.282	-.282	0	%100
19	M23	X	.418	.418	0	%100
20	M23	Z	-.241	-.241	0	%100
21	MP1A	X	.419	.419	0	%100
22	MP1A	Z	-.242	-.242	0	%100
23	M24A	X	.057	.057	0	%100
24	M24A	Z	-.033	-.033	0	%100
25	M25	X	.457	.457	0	%100
26	M25	Z	-.264	-.264	0	%100

Member Distributed Loads (BLC 68 : Structure Wm (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	.484	.484	0	%100
6	MP4A	Z	0	0	0	%100
7	MP2A	X	.484	.484	0	%100
8	MP2A	Z	0	0	0	%100
9	MP3A	X	.484	.484	0	%100
10	MP3A	Z	0	0	0	%100
11	M15	X	.404	.404	0	%100
12	M15	Z	0	0	0	%100
13	M17	X	.404	.404	0	%100
14	M17	Z	0	0	0	%100
15	M19	X	.153	.153	0	%100
16	M19	Z	0	0	0	%100
17	M22	X	.565	.565	0	%100
18	M22	Z	0	0	0	%100
19	M23	X	.389	.389	0	%100
20	M23	Z	0	0	0	%100
21	MP1A	X	.484	.484	0	%100
22	MP1A	Z	0	0	0	%100
23	M24A	X	.181	.181	0	%100
24	M24A	Z	0	0	0	%100
25	M25	X	.146	.146	0	%100
26	M25	Z	0	0	0	%100



Member Distributed Loads (BLC 69 : Structure Wm (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	.105	.105	0	%100
2	M1	Z	.061	.061	0	%100
3	M2	X	.105	.105	0	%100
4	M2	Z	.061	.061	0	%100
5	MP4A	X	.419	.419	0	%100
6	MP4A	Z	.242	.242	0	%100
7	MP2A	X	.419	.419	0	%100
8	MP2A	Z	.242	.242	0	%100
9	MP3A	X	.419	.419	0	%100
10	MP3A	Z	.242	.242	0	%100
11	M15	X	.262	.262	0	%100
12	M15	Z	.151	.151	0	%100
13	M17	X	.262	.262	0	%100
14	M17	Z	.151	.151	0	%100
15	M19	X	.132	.132	0	%100
16	M19	Z	.076	.076	0	%100
17	M22	X	.489	.489	0	%100
18	M22	Z	.282	.282	0	%100
19	M23	X	.129	.129	0	%100
20	M23	Z	.074	.074	0	%100
21	MP1A	X	.419	.419	0	%100
22	MP1A	Z	.242	.242	0	%100
23	M24A	X	.492	.492	0	%100
24	M24A	Z	.284	.284	0	%100
25	M25	X	.057	.057	0	%100
26	M25	Z	.033	.033	0	%100

Member Distributed Loads (BLC 70 : Structure Wm (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	.182	.182	0	%100
2	M1	Z	.315	.315	0	%100
3	M2	X	.182	.182	0	%100
4	M2	Z	.315	.315	0	%100
5	MP4A	X	.242	.242	0	%100
6	MP4A	Z	.419	.419	0	%100
7	MP2A	X	.242	.242	0	%100
8	MP2A	Z	.419	.419	0	%100
9	MP3A	X	.242	.242	0	%100
10	MP3A	Z	.419	.419	0	%100
11	M15	X	.05	.05	0	%100
12	M15	Z	.087	.087	0	%100
13	M17	X	.05	.05	0	%100
14	M17	Z	.087	.087	0	%100
15	M19	X	.076	.076	0	%100
16	M19	Z	.132	.132	0	%100
17	M22	X	.282	.282	0	%100
18	M22	Z	.489	.489	0	%100
19	M23	X	.000972	.000972	0	%100
20	M23	Z	.002	.002	0	%100
21	MP1A	X	.242	.242	0	%100
22	MP1A	Z	.419	.419	0	%100
23	M24A	X	.42	.42	0	%100
24	M24A	Z	.727	.727	0	%100
25	M25	X	.184	.184	0	%100
26	M25	Z	.318	.318	0	%100



Member Distributed Loads (BLC 71 : Structure Wm (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	0	0	0	%100
2	M1	Z	.484	.484	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.484	.484	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	.484	.484	0	%100
7	MP2A	X	0	0	0	%100
8	MP2A	Z	.484	.484	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	.484	.484	0	%100
11	M15	X	0	0	0	%100
12	M15	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	0	0	0	%100
15	M19	X	0	0	0	%100
16	M19	Z	.153	.153	0	%100
17	M22	X	0	0	0	%100
18	M22	Z	.565	.565	0	%100
19	M23	X	0	0	0	%100
20	M23	Z	.096	.096	0	%100
21	MP1A	X	0	0	0	%100
22	MP1A	Z	.484	.484	0	%100
23	M24A	X	0	0	0	%100
24	M24A	Z	.724	.724	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	.749	.749	0	%100

Member Distributed Loads (BLC 72 : Structure Wm (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	-.182	-.182	0	%100
2	M1	Z	.315	.315	0	%100
3	M2	X	-.182	-.182	0	%100
4	M2	Z	.315	.315	0	%100
5	MP4A	X	-.242	-.242	0	%100
6	MP4A	Z	.419	.419	0	%100
7	MP2A	X	-.242	-.242	0	%100
8	MP2A	Z	.419	.419	0	%100
9	MP3A	X	-.242	-.242	0	%100
10	MP3A	Z	.419	.419	0	%100
11	M15	X	-.05	-.05	0	%100
12	M15	Z	.087	.087	0	%100
13	M17	X	-.05	-.05	0	%100
14	M17	Z	.087	.087	0	%100
15	M19	X	-.076	-.076	0	%100
16	M19	Z	.132	.132	0	%100
17	M22	X	-.282	-.282	0	%100
18	M22	Z	.489	.489	0	%100
19	M23	X	-.168	-.168	0	%100
20	M23	Z	.291	.291	0	%100
21	MP1A	X	-.242	-.242	0	%100
22	MP1A	Z	.419	.419	0	%100
23	M24A	X	-.169	-.169	0	%100
24	M24A	Z	.293	.293	0	%100
25	M25	X	-.414	-.414	0	%100
26	M25	Z	.718	.718	0	%100



Member Distributed Loads (BLC 73 : Structure Wm (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	-.105	-.105	0	%100
2	M1	Z	.061	.061	0	%100
3	M2	X	-.105	-.105	0	%100
4	M2	Z	.061	.061	0	%100
5	MP4A	X	-.419	-.419	0	%100
6	MP4A	Z	.242	.242	0	%100
7	MP2A	X	-.419	-.419	0	%100
8	MP2A	Z	.242	.242	0	%100
9	MP3A	X	-.419	-.419	0	%100
10	MP3A	Z	.242	.242	0	%100
11	M15	X	-.262	-.262	0	%100
12	M15	Z	.151	.151	0	%100
13	M17	X	-.262	-.262	0	%100
14	M17	Z	.151	.151	0	%100
15	M19	X	-.132	-.132	0	%100
16	M19	Z	.076	.076	0	%100
17	M22	X	-.489	-.489	0	%100
18	M22	Z	.282	.282	0	%100
19	M23	X	-.418	-.418	0	%100
20	M23	Z	.241	.241	0	%100
21	MP1A	X	-.419	-.419	0	%100
22	MP1A	Z	.242	.242	0	%100
23	M24A	X	-.057	-.057	0	%100
24	M24A	Z	.033	.033	0	%100
25	M25	X	-.457	-.457	0	%100
26	M25	Z	.264	.264	0	%100

Member Distributed Loads (BLC 74 : Structure Wm (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	-.484	-.484	0	%100
6	MP4A	Z	0	0	0	%100
7	MP2A	X	-.484	-.484	0	%100
8	MP2A	Z	0	0	0	%100
9	MP3A	X	-.484	-.484	0	%100
10	MP3A	Z	0	0	0	%100
11	M15	X	-.404	-.404	0	%100
12	M15	Z	0	0	0	%100
13	M17	X	-.404	-.404	0	%100
14	M17	Z	0	0	0	%100
15	M19	X	-.153	-.153	0	%100
16	M19	Z	0	0	0	%100
17	M22	X	-.565	-.565	0	%100
18	M22	Z	0	0	0	%100
19	M23	X	-.389	-.389	0	%100
20	M23	Z	0	0	0	%100
21	MP1A	X	-.484	-.484	0	%100
22	MP1A	Z	0	0	0	%100
23	M24A	X	-.181	-.181	0	%100
24	M24A	Z	0	0	0	%100
25	M25	X	-.146	-.146	0	%100
26	M25	Z	0	0	0	%100



Member Distributed Loads (BLC 75 : Structure Wm (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	- .105	- .105	0	%100
2	M1	Z	- .061	- .061	0	%100
3	M2	X	- .105	- .105	0	%100
4	M2	Z	- .061	- .061	0	%100
5	MP4A	X	- .419	- .419	0	%100
6	MP4A	Z	- .242	- .242	0	%100
7	MP2A	X	- .419	- .419	0	%100
8	MP2A	Z	- .242	- .242	0	%100
9	MP3A	X	- .419	- .419	0	%100
10	MP3A	Z	- .242	- .242	0	%100
11	M15	X	- .262	- .262	0	%100
12	M15	Z	- .151	- .151	0	%100
13	M17	X	- .262	- .262	0	%100
14	M17	Z	- .151	- .151	0	%100
15	M19	X	- .132	- .132	0	%100
16	M19	Z	- .076	- .076	0	%100
17	M22	X	- .489	- .489	0	%100
18	M22	Z	- .282	- .282	0	%100
19	M23	X	- .129	- .129	0	%100
20	M23	Z	- .074	- .074	0	%100
21	MP1A	X	- .419	- .419	0	%100
22	MP1A	Z	- .242	- .242	0	%100
23	M24A	X	- .492	- .492	0	%100
24	M24A	Z	- .284	- .284	0	%100
25	M25	X	- .057	- .057	0	%100
26	M25	Z	- .033	- .033	0	%100

Member Distributed Loads (BLC 76 : Structure Wm (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in, %]	End Location[in, %]
1	M1	X	- .182	- .182	0	%100
2	M1	Z	- .315	- .315	0	%100
3	M2	X	- .182	- .182	0	%100
4	M2	Z	- .315	- .315	0	%100
5	MP4A	X	- .242	- .242	0	%100
6	MP4A	Z	- .419	- .419	0	%100
7	MP2A	X	- .242	- .242	0	%100
8	MP2A	Z	- .419	- .419	0	%100
9	MP3A	X	- .242	- .242	0	%100
10	MP3A	Z	- .419	- .419	0	%100
11	M15	X	- .05	- .05	0	%100
12	M15	Z	- .087	- .087	0	%100
13	M17	X	- .05	- .05	0	%100
14	M17	Z	- .087	- .087	0	%100
15	M19	X	- .076	- .076	0	%100
16	M19	Z	- .132	- .132	0	%100
17	M22	X	- .282	- .282	0	%100
18	M22	Z	- .489	- .489	0	%100
19	M23	X	- .000972	- .000972	0	%100
20	M23	Z	- .002	- .002	0	%100
21	MP1A	X	- .242	- .242	0	%100
22	MP1A	Z	- .419	- .419	0	%100
23	M24A	X	- .42	- .42	0	%100
24	M24A	Z	- .727	- .727	0	%100
25	M25	X	- .184	- .184	0	%100
26	M25	Z	- .318	- .318	0	%100



Member Area Loads

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
No Data to Print ...						

Envelope Joint Reactions

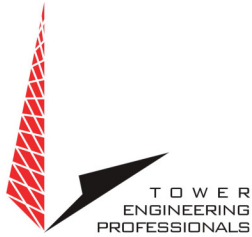
	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N44	max	948.472	11	942.702	18	923.652	12	0	75	0	75	.081	11
2		min	-1045.439	29	-69.032	12	-1724.563	6	0	1	0	1	-.115	5
3	N45	max	240.574	3	892.612	18	984.338	18	0	75	0	75	.098	29
4		min	-256.87	9	-3.072	12	-231.795	12	0	1	0	1	-.077	11
5	N48	max	248.843	5	92.354	36	500.451	5	0	75	0	75	0	75
6		min	-241.2	11	-8.649	6	-503.504	11	0	1	0	1	0	1
7	N52A	max	801.929	33	839.343	12	958.735	12	.004	12	0	12	0	12
8		min	-439.767	3	-610.704	6	-799.251	6	-.003	6	-.001	49	-.001	49
9	Totals:	max	964.226	10	1921.417	24	1514.832	1						
10		min	-964.239	4	574.474	68	-1514.787	7						

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

Member	Shape	Code Ch...	Loc[in]	LC	Shear ...	Loc[in]	Dir	LC	phi*Pnc [L...	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
1	M2	PIPE 2.0	.870	74.75	6	.331	74.75	6	5820.472	32130	1.872	1.872	1...	H3-6
2	M1	PIPE 2.0	.820	78	6	.330	74.75	6	5820.472	32130	1.872	1.872	1...	H3-6
3	MP1A	PIPE 2.0	.445	66.5	30	.131	37.625	6	17855.085	32130	1.872	1.872	1...	H1-1b
4	MP2A	PIPE 2.0	.436	37.625	6	.114	37.625	29	17855.085	32130	1.872	1.872	1...	H1-1b
5	M15	HSS2.5X2.5...	.355	1.5	27	.183	6.25	z 27	55909.564	58212	4.158	4.158	2...	H1-1b
6	M17	HSS2.5X2.5...	.350	24	5	.159	6.5	y 29	55909.564	58212	4.158	4.158	2...	H1-1b
7	MP3A	PIPE 2.0	.261	66.5	6	.156	37.625	7	17855.085	32130	1.872	1.872	1...	H1-1b
8	M23	PIPE 2.0	.256	0	36	.010	72.189	36	20819.355	32130	1.872	1.872	1...	H1-1b
9	MP4A	PIPE 2.0	.244	66.5	49	.074	66.5	7	17855.085	32130	1.872	1.872	1...	H1-1b
10	M25	L2.5x2.5x4	.142	35.085	1	.017	0	y 6	12161.512	38556	1.114	2.157	1...	H2-1
11	M22	PIPE 3.0	.131	7.5	18	.142	7.5	29	59852.693	65205	5.749	5.749	3...	H1-1b
12	M24A	L2.5x2.5x4	.127	32.31	12	.015	0	y 49	14957.513	38556	1.114	2.212	1...	H2-1
13	M19	SR 0.75	.101	30	12	.042	0	11	3898.744	14313.866	.179	.179	1...	H1-1b*

EXHIBIT 5





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Non-Ionizing Electromagnetic Radiation (NIER) Study

Site Number:

274848

Site Name:

Wolcott RD CT

Location:

Wolcott, Connecticut

Tenants:

American Medical Services, HC2 Holdings, Inc.,
Champion Ambulance Services, & Verizon Wireless

Prepared For:

American Tower, Inc.
Woburn, Massachusetts

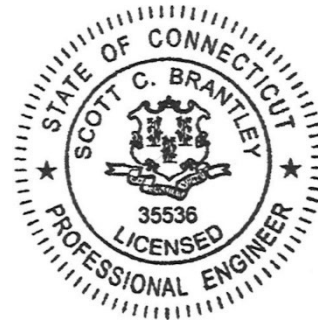
December 10th, 2023

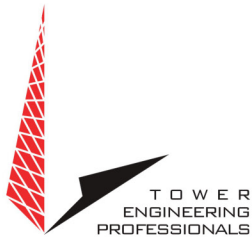
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Prepared By:

Adam Carlson MS, CBRE, CPI
Program Manager RF Design & Service
Tower Engineering Professionals

Approved By:





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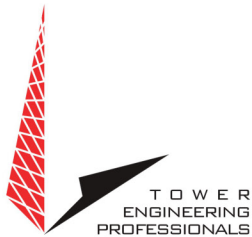
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Non-Ionizing Electromagnetic Radiation (NIER) Study

274848 Wolcott RD CT
Wolcott, Connecticut

INTRODUCTION

Tower Engineering Professionals RF Design & Services Division (TEP-RF) of Raleigh, North Carolina, has been retained by American Tower, Inc. (ATC), of Woburn, Massachusetts to evaluate the RF emissions compared to the Maximum Permissible Exposure (MPE) limit for facilities at this location. This evaluation uses compliance standards as outlined in Federal Communications Commission (FCC) document OET-65.

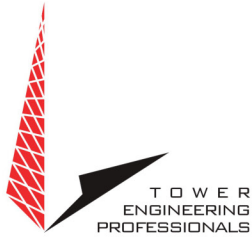
SITE AND FACILITY CONSIDERATIONS

Site 274848 Wolcott RD CT is located at 1192 Wolcott Rd., in Wolcott, Connecticut at coordinates 41.618037, -72.971241. The support structure is 182' self-support. An aerial view of the tower can be found in Appendix 1, Site Photos. The tenants are American Medical Services (AMS), HC2 Holdings, Inc. (HC2), Champion Ambulance Services (CAS), & Verizon Wireless (VZW). A table listing all antennae and effective radiated power (ERP) levels that were used in this study may be found in Appendix 2, Antenna Inventory.

POWER DENSITY CALCULATIONS

Power densities were calculated based on FCC MPE limits for both General Population/Uncontrolled and Occupational/Controlled environments.

For the purpose of this study, a radius of 100' from the base of the tower with a height of 6' above ground level was used, beyond 100' the MPE levels become *di minimus*. This study utilized FCC recognized and accepted software programs using the maximum ERP levels for the antenna models provided by ATC. Diagrams depicting the predicted spatial average power density level at any specific location may be found in Appendix 3, MPE Limit Study. A discussion regarding the FCC limits may be found in Appendix 4, Information Pertaining to MPE Studies. Study methodology describing Non-ionizing Radiation Prediction Models used in this study may be found in Appendix 5, MPE Standards Methodology.



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All data used in this study was collected from one or more of the following sources:

- ATC furnished data and does not include other unidentified communication facilities.
- Load List at Load List at 274848 Wolcott RD CT.RF NIER Study 11/15/23.
- FCC databases.
- Carrier standard configurations.
- Empirical data collected by TEP.

SITE MITIGATION & CONTROL

In order to comply with FCC, tenant, & ATC requirements, TEP recommends the placement of signage at the base of the tower and all compound access points to alert workers of potential exposure to RF fields while working on or near the antennae.

TEP recommends that all personnel working on this tower be trained in RF safety procedures and carry a personal RF monitor at all times.

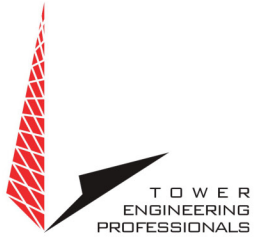
COMPLIANCE DETERMINATION

This installation **IS** in compliance with current FCC MPE limits as described in FCC OET-65.

APPENDIX 1 Site Photos



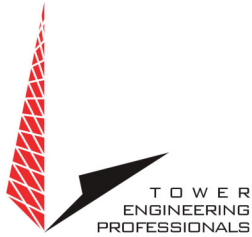
Aerial View of Site



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Appendix 2 .1 Antenna Inventory

274848 Wolcott Rd CT							
Antenna Inventory							
Antenna #	Carrier	Antenna Manufacturer	Antenna Model	Frequency Band (MHz)	Azimuth (°)	Effective Radiated Power (W)	Radiation Center (ft)
1	AMR	Generic	20' Omni	400	301	4074	190.9
2	AMR	RFS	PD201-7	400	261	289	188.6
3	AMR	RFS	PD458-2	400	166	289	185.1
4	AMR	Andrew	DB222-B	100	n/a	963	185
5	AMR	RFS	PD458-2	400	061	289	159
6	AMR	RFS	PD201-7	400	304	289	149
7	CAS	RFS	PD458-2	400	178	289	146
8	CAS	RFS	PD458-2	400	026	289	146
9	Verizon	Commscope	LNX-8513DS-VTM	800	020	11669	135.0
10	Verizon	Commscope	LNX-8513DS-VTM	800	180	11669	135.0
11	Verizon	RFS	APX18-206516L	800	020	10522	135.0
12	Verizon	RFS	APX18-206516L	800	180	10522	135.0
13	Verizon	Antel	BXA-70063/6CF_	700/800/1700/1800/1900/2100	020	92476	135.0
14	Verizon	Antel	BXA-70063/6CF_	700/800/1700/1800/1900/2100	180	92476	135.0
15	Verizon	Antel	BXA-70063/6CF_	700/800/1700/1800/1900/2100	280	92476	135.0

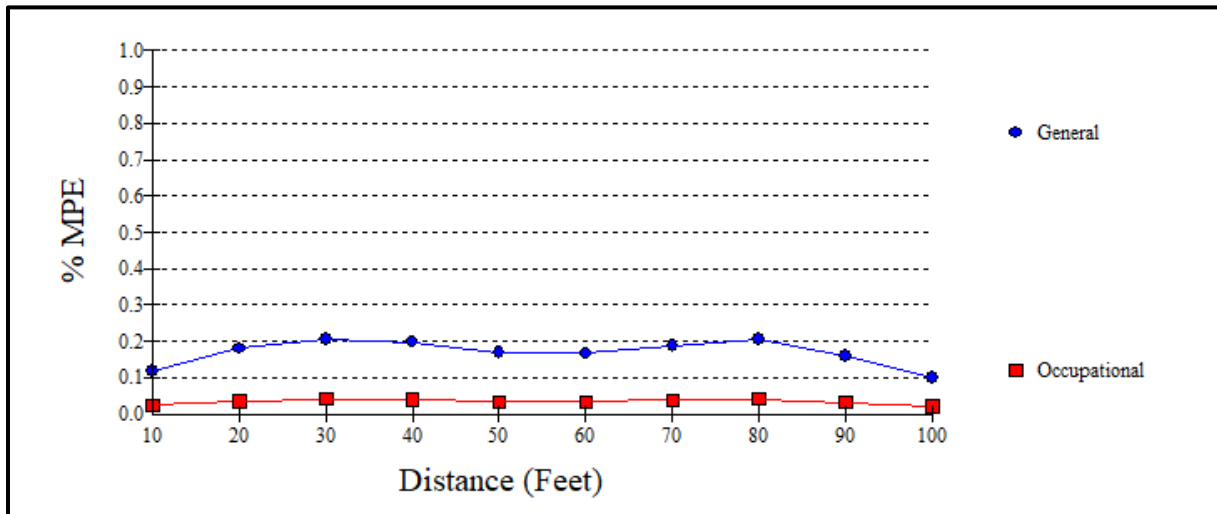


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Appendix 2 .2 Antenna Inventory

210744 Spring Hill CT							
Antenna Inventory							
Antenna #	Carrier	Antenna Manufacturer	Antenna Model	Frequency Band (MHz)	Azimuth (°)	Effective Radiated Power (W)	Radiation Center (ft)
16	Verizon	Commscope	LNX-8513DS-VTM	800	280	11669	135.0
17	Verizon	Antel	BXA-171063-8BF	800	280	19677	135.0
18	Verizon	Generic	77"x7"	700/800/1700/1800/1900/2100	000	92476	135.0
19	Verizon	Generic	77"x7"	700/800/1700/1800/1900/2100	180	92476	135.0
20	Verizon	Generic	77"x7"	700/800/1700/1800/1900/2100	280	92476	135.0
21	Verizon	Commscope	LNX-8513DS-VTM	800	020	11669	135.0
22	Verizon	Commscope	LNX-8513DS-VTM	800	180	11669	135.0
23	Verizon	Commscope	LNX-8513DS-VTM	800	280	11669	135.0
24	Verizon	Samsung	MT6413	3700-3900	020	18286	135.0
25	Verizon	Samsung	MT6413	3700-3900	180	18286	135.0
26	Verizon	Samsung	MT6413	3700-3900	280	18286	135.0
27	Verizon	JMA	MX06FRO660-03	600/1900/2000/2100	020	54494	135.0
28	Verizon	JMA	MX06FRO660-03	600/1900/2000/2100	180	54494	135.0
29	Verizon	JMA	MX06FRO660-03	600/1900/2000/2100	280	54494	135.0
30	Verizon	JMA	MX06FRO660-03	600/1900/2000/2100	020	54494	135.0
31	Verizon	JMA	MX06FRO660-03	600/1900/2000/2100	180	54494	135.0
32	Verizon	JMA	MX06FRO660-03	600/1900/2000/2100	280	54494	135.0
33	Verizon	Commscope	VHLPX3-11W-3W	17000-19000	279	14525	135.0
34	HC2	Scala	2x3 7500000044	500	120	15000	123.4
35	AMR	RFS	PD201-7	400	261	289	103.8

Appendix 3.1 MPE Limit Study



Maximum Power Density (@20’):	0.0013 mW/cm ²
General Population MPE (@20’):	0.2065%
Occupational MPE (@20’):	0.0413%

Appendix 3.2 MPE Limit Study





Appendix 4 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.



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MPE limits are defined in terms of power density (units of milliwatts per centimeter squared: mW/cm^2), 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).

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.

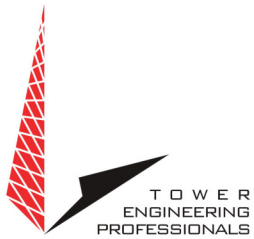
General population/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore,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



Appendix 5 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.

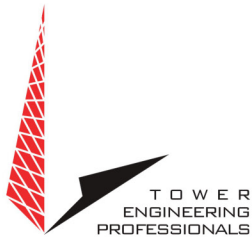


The FCC's limits for exposure at different frequencies are shown in the following Tables.

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

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.

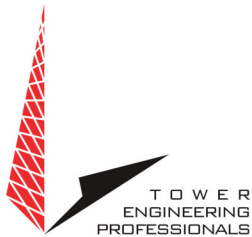
Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3 - 1.34	614	1.63	100*	30
1.34 - 30	824/f	2.19/f	180/F ²	30
30 -300	27.5	0.073	0.2	30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

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.

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:

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

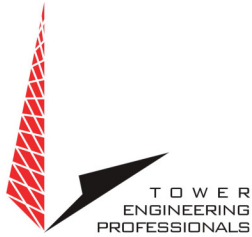
Where:

S = Power Density

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length



326 TRYON ROAD
RALEIGH, NC 27607
919.661.6351
WWW.TEPGROUP.NET

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



DATE November 22, 1991

ZONING PERMIT FEE.....\$25.00
WOLCOTT PLANNING AND ZONING COMMISSION

DATE November 22, 1991

PERMØT NO. 3024

A zoning permit is hereby granted to AAT Communications Corp. Lessee
(Edward Cleary owner)
1233 1235 Wolcott Rd. To install a radio communications equipment storage building and
antenna support structure.
authorizing building construction and site development activities in
accordance with Application for Zoning Permit# 3024
approved by the Zoning Enforcement Officer on November 22, 1991

Signed: *E. P. Lajoie*

- NOTE: 1. Site plan and Special Permits approved by the Planning and Zoning Commission and Variances granted by the Zoning Board of Appeals may have been approved or granted subject to conditions, which conditions are also conditions of approval of the Zoning Permit.
2. After completion of any construction and improvements and Prior to the use or occupancy of the premises, a Certificate of Zoning Compliance must be obtained. Such a Certificate of Zoning Compliance must also be obtained prior to a change of use of an existing premises.

OWNER EDWARD CLEARY DATE September 4, 1991
 ADDRESS 50 Beach Road, Wolcott, CT TELEPHONE 879-4987
 APPLICANT AAT Communications Corporation
 ADDRESS 1854 Hylan Blvd., Staten Island, NY 10305 TELEPHONE 1-718-979-6600

The undersigned hereby makes application for a Zoning Permit under the Zoning Regulations of the Town of Wolcott for one or more of the following:

- Use of Land Sign Parking Area
- Change of use of existing building or structure Proposed building or structure and use thereof
- Outside storage area Change of existing building or storage & use thereof

Zoning District Industrial Address 1235 Wolcott Road, Wolcott
 Location: On North side of Wolcott (Street) between Boundline
 and Idlewood Town Road: Accepted Unaccepted

Description of Proposal Erection and use of antenna support structure (tower) and communication equipment storage building

Plan Drawing Attached *** I attest to the accuracy of information submitted on this application and agree to comply with all regulations of the Town of Wolcott

Date September 4, 1991 Sign [Signature]
 Authorized Agent William F. Tynan

Sanitation Approval
 Chesprocott Health District
 by _____

Application Approved _____ Date _____
 Sewer & Water Department Approval _____ Date _____

Comments _____

By [Signature] Date 9/5/91

Decision of Zoning Enforcement Officer Site Plan Approval
 Special Permit Approval Variance or other Approval

Zoning Permit # _____ Issued on _____

Application disapproved on _____ because of the following _____

Assessor's Map # 119 Parcel # 7-A

Subdivision, if any: Title _____ Lot # _____

Inland Wetland Area: Yes: _____ No: _____ Flood Hazard Area: Yes _____

Proposed Use Buildings and Structures

Proposed Use: (Cite from Article 3) Relay towers and facilities - Section 3.1;

Part B; B.3

The proposed use is permitted:

- As matter of right
- By Special Permit
- With Site Plan approval
- Other (describe) _____

Proposed buildings and structures (for proposals with several buildings, attach appropriate tabulation.

Total floor area for each dwelling unit _____

Total ground coverage of buildings as % of lot _____

Total floor area of all buildings _____

Number of stories _____

Maximum height _____

*****SETBACKS***** Front Yard _____ Rear Yard _____ Side Yard _____ ***** Side Yard _____

If applicable, do plan drawings show off-street parking and loading, outside yard _____

Site development and landscaping, signs, driveway locations?

Parking _____ Yes _____ No _____

Outside Storage _____ Yes _____ No _____

Landscaping, etc. _____ Yes _____ No _____

Signs _____ Yes _____ No _____

Driveway Location _____ Yes _____ No _____

As per Article 7, Section 3, Paragraph 3.6.1., Staking is required prior to issuing Zoning Permit.

STATEMENT OF USE

Antenna Support Structure (350 feet in height) and accessory radio communication equipment storage building (15 x 40) for the location of one way and two way radio equipment and related antenna.

**APPLICATION FOR
PLAN EXAMINATION AND
BUILDING PERMIT**

IMPORTANT - Applicant to complete all items in sections: I, II, III, IV, and IX.

I. LOCATION OF BUILDING	AT (LOCATION) <u>1235 Wolcott Road</u> <u>1233</u> <small>(NO.) (STREET)</small>	ZONING DISTRICT <u>Ind.</u>
	BETWEEN <u>Boundline</u> AND <u>Idlewood</u> <small>(CROSS STREET) (CROSS STREET)</small>	
	SUBDIVISION _____ LOT <u>119</u> BLOCK <u>7-A</u> LOT SIZE <u>3.970</u> acres	

II. TYPE AND COST OF BUILDING - All applicants complete Parts A - D

<p>A. TYPE OF IMPROVEMENT</p> <p>1 <input checked="" type="checkbox"/> New building</p> <p>2 <input type="checkbox"/> Addition (If residential, enter number of new housing units added, if any, in Part D, 13)</p> <p>3 <input type="checkbox"/> Alteration (See 2 above)</p> <p>4 <input type="checkbox"/> Repair, replacement</p> <p>5 <input type="checkbox"/> Wrecking (If multifamily residential, enter number of units in building in Part D, 13)</p> <p>6 <input type="checkbox"/> Moving (relocation)</p> <p>7 <input type="checkbox"/> Foundation only</p>	<p>D. PROPOSED USE - For "Wrecking" most recent use</p> <table style="width:100%;"> <tr> <td style="width:50%; vertical-align: top;"> <p>Residential</p> <p>12 <input type="checkbox"/> One family</p> <p>13 <input type="checkbox"/> Two or more family - Enter number of units - - - - -> _____</p> <p>14 <input type="checkbox"/> Transient hotel; motel, or dormitory - Enter number of units - - - - -> _____</p> <p>15 <input type="checkbox"/> Garage</p> <p>16 <input type="checkbox"/> Carport</p> <p>17 <input type="checkbox"/> Other - Specify _____</p> </td> <td style="width:50%; vertical-align: top;"> <p>Nonresidential</p> <p>18 <input type="checkbox"/> Amusement, recreational</p> <p>19 <input type="checkbox"/> Church, other religious</p> <p>20 <input type="checkbox"/> Industrial</p> <p>21 <input type="checkbox"/> Parking garage</p> <p>22 <input type="checkbox"/> Service station, repair garage</p> <p>23 <input type="checkbox"/> Hospital, institutional</p> <p>24 <input type="checkbox"/> Office, bank, professional</p> <p>25 <input type="checkbox"/> Public utility</p> <p>26 <input type="checkbox"/> School, library, other educational</p> <p>27 <input type="checkbox"/> Stores, mercantile</p> <p>28 <input checked="" type="checkbox"/> Tanks, towers</p> <p>29 <input type="checkbox"/> Other - Specify _____</p> </td> </tr> </table>	<p>Residential</p> <p>12 <input type="checkbox"/> One family</p> <p>13 <input type="checkbox"/> Two or more family - Enter number of units - - - - -> _____</p> <p>14 <input type="checkbox"/> Transient hotel; motel, or dormitory - Enter number of units - - - - -> _____</p> <p>15 <input type="checkbox"/> Garage</p> <p>16 <input type="checkbox"/> Carport</p> <p>17 <input type="checkbox"/> Other - Specify _____</p>	<p>Nonresidential</p> <p>18 <input type="checkbox"/> Amusement, recreational</p> <p>19 <input type="checkbox"/> Church, other religious</p> <p>20 <input type="checkbox"/> Industrial</p> <p>21 <input type="checkbox"/> Parking garage</p> <p>22 <input type="checkbox"/> Service station, repair garage</p> <p>23 <input type="checkbox"/> Hospital, institutional</p> <p>24 <input type="checkbox"/> Office, bank, professional</p> <p>25 <input type="checkbox"/> Public utility</p> <p>26 <input type="checkbox"/> School, library, other educational</p> <p>27 <input type="checkbox"/> Stores, mercantile</p> <p>28 <input checked="" type="checkbox"/> Tanks, towers</p> <p>29 <input type="checkbox"/> Other - Specify _____</p>
<p>Residential</p> <p>12 <input type="checkbox"/> One family</p> <p>13 <input type="checkbox"/> Two or more family - Enter number of units - - - - -> _____</p> <p>14 <input type="checkbox"/> Transient hotel; motel, or dormitory - Enter number of units - - - - -> _____</p> <p>15 <input type="checkbox"/> Garage</p> <p>16 <input type="checkbox"/> Carport</p> <p>17 <input type="checkbox"/> Other - Specify _____</p>	<p>Nonresidential</p> <p>18 <input type="checkbox"/> Amusement, recreational</p> <p>19 <input type="checkbox"/> Church, other religious</p> <p>20 <input type="checkbox"/> Industrial</p> <p>21 <input type="checkbox"/> Parking garage</p> <p>22 <input type="checkbox"/> Service station, repair garage</p> <p>23 <input type="checkbox"/> Hospital, institutional</p> <p>24 <input type="checkbox"/> Office, bank, professional</p> <p>25 <input type="checkbox"/> Public utility</p> <p>26 <input type="checkbox"/> School, library, other educational</p> <p>27 <input type="checkbox"/> Stores, mercantile</p> <p>28 <input checked="" type="checkbox"/> Tanks, towers</p> <p>29 <input type="checkbox"/> Other - Specify _____</p>		
<p>B. OWNERSHIP</p> <p>8 <input checked="" type="checkbox"/> Private (individual, corporation, nonprofit institution, etc.)</p> <p>9 <input type="checkbox"/> Public (Federal, State, or local government)</p>			

<p>C. COST</p> <p>10. Cost of improvement..... \$ <u>93,000</u></p> <p><i>To be installed but not included in the above cost</i></p> <p>a. Electrical..... <u>5,000</u></p> <p>b. Plumbing..... <u>N/A</u></p> <p>c. Heating, air conditioning..... <u>N/A</u></p> <p>d. Other (elevator, etc.)..... <u>N/A</u></p> <p>11. TOTAL COST OF IMPROVEMENT \$ <u>98,000</u></p>	<p><small>(Omit cents)</small></p> <p>Nonresidential - Describe in detail proposed use of buildings, e.g., food processing plant, machine shop, laundry building at hospital, elementary school, secondary school, college, parochial school, parking garage for, department store, rental office building, office building at industrial plant. If use of existing building is being changed, enter proposed use.</p> <p><u>Radio Communications Equipment Storage</u></p> <p><u>Buildings and Antenna Support Structure</u></p> <p align="right"><u>470.00</u> <u>5.00</u> <u>475.00</u></p>
--	--

III. SELECTED CHARACTERISTICS OF BUILDING - For new buildings and additions, complete Parts E - L; for wrecking, complete only Part J, for all others skip to IV.

<p>E. PRINCIPAL TYPE OF FRAME</p> <p>30 <input type="checkbox"/> Masonry (wall bearing)</p> <p>31 <input type="checkbox"/> Wood frame</p> <p>32 <input checked="" type="checkbox"/> Structural steel</p> <p>33 <input type="checkbox"/> Reinforced concrete</p> <p>34 <input type="checkbox"/> Other - Specify _____</p>	<p>G. TYPE OF SEWAGE DISPOSAL</p> <p>40 <input type="checkbox"/> Public or private company</p> <p>41 <input type="checkbox"/> Private (septic tank, etc.)</p> <p align="center"><u>N/A</u></p>	<p>J. DIMENSIONS</p> <p>48. Number of stories..... <u>35</u></p> <p>49. Total square feet of floor area, all floors, based on exterior dimensions..... <u>1225</u></p> <p>50. Total land area, sq. ft..... <u>172,938</u></p>	<p>K. NUMBER OF OFF-STREET PARKING SPACES</p> <p>51. Enclosed.....</p> <p>52. Outdoors..... <u>4</u></p>
<p>F. PRINCIPAL TYPE OF HEATING FUEL</p> <p>35 <input type="checkbox"/> Gas</p> <p>36 <input type="checkbox"/> Oil</p> <p>37 <input checked="" type="checkbox"/> Electricity</p> <p>38 <input type="checkbox"/> Coal</p> <p>39 <input type="checkbox"/> Other - Specify _____</p>	<p>H. TYPE OF WATER SUPPLY <u>N/A</u></p> <p>42 <input type="checkbox"/> Public or private company</p> <p>43 <input type="checkbox"/> Private (well, cistern)</p>	<p>L. RESIDENTIAL BUILDINGS ONLY</p> <p>53. Number of bedrooms.....</p> <p>54. Number of bathrooms</p> <p style="margin-left: 20px;">} Full.....</p> <p style="margin-left: 20px;">} Partial.....</p>	
	<p>I. TYPE OF MECHANICAL</p> <p>Will there be central air conditioning?</p> <p>44 <input type="checkbox"/> Yes 45 <input checked="" type="checkbox"/> No</p> <p>Will there be an elevator?</p> <p>46 <input type="checkbox"/> Yes 47 <input checked="" type="checkbox"/> No</p>		

NO. 1433 STREET WOLCOTT ROAD

10704

IV. IDENTIFICATION - To be completed by all applicants

Name	Mailing address - Number, street, city, and State	ZIP code	Tel. No.
1. Owner or Lessee AAT Communications Corporation	1854 Hylan Boulevard Staten Island, NY	10305	(718) 979-6600
2. Contractor Francisco Tower Incorporated	431 East Ellis Street, P.O. Box 249 East Syracuse, NY	13057	Builder's License No. (315) 437-3059
3. Architect or Engineer Charles L. Burns	431 East Ellist Street, P.O. Box 249 East Syracuse, NY	13057	(315) 446-3114

I hereby certify that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and we agree to conform to all applicable laws of this jurisdiction.

Signature of applicant: *Greg Brennan* Address: *1854 Hylan Blvd S.I. NY 10305* Application date: *11/6/91*

DO NOT WRITE BELOW THIS LINE

V. PLAN REVIEW RECORD - For office use

Plans Review Required	Check	Plan Review Fee	Date Plans Started	By	Date Plans Approved	By	Notes
BUILDING		\$					
PLUMBING		\$					
MECHANICAL		\$					
ELECTRICAL		\$					
OTHER _____		\$					

VI. ADDITIONAL PERMITS REQUIRED OR OTHER JURISDICTION APPROVALS

Permit or Approval	Check	Date Obtained	Number	By	Permit or Approval	Check	Date Obtained	Number	By
BOILER					PLUMBING				
CURB OR SIDEWALK CUT					ROOFING				
ELEVATOR					SEWER				
ELECTRICAL					SIGN OR BILLBOARD				
FURNACE					STREET GRADES				
GRADING					USE OF PUBLIC AREAS				
OIL BURNER					WRECKING				
OTHER _____					OTHER _____				

VII. VALIDATION *David BarBagallo e smartlink LLC.com*

Building Permit number _____	<p>FOR DEPARTMENT USE ONLY</p> <p>Use Group _____</p> <p>Fire Grading _____</p> <p>Live Loading _____</p> <p>Occupancy Load _____</p>
Building Permit issued _____ 19 _____	
Building Permit Fee \$ _____	
Certificate of Occupancy \$ _____	
Drain Tile \$ _____	Approved by: <i>Kenneth Smoil</i>
Plan Review Fee \$ _____	TITLE _____

TOWN OF WOLCOTT BUILDING PERMIT
OFFICE OF THE BUILDING INSPECTOR

DEPT. FILE COPY

BUILDING PERMIT

AMOUNT PAID

broer to renew cert. by authorized person to make this application as his
VALIDATION

DATE November 22 19 91 PERMIT NO. 6969
APPLICANT AAT Communications Inc. ADDRESS 1854 Hylan Boulevard, Staten Island, NY
(NO.) (STREET) (CONTR'S LICENSE)

PERMIT TO install radio tower etc/ STORY _____ NUMBER OF DWELLING UNITS _____
(TYPE OF IMPROVEMENT) (PROPOSED USE)

AT (LOCATION) 1235 Wolcott Road #1233 ZONING DISTRICT _____
(NO.) (STREET)
BETWEEN _____ AND _____
(CROSS STREET) (CROSS STREET)

SUBDIVISION _____ LOT _____ BLOCK _____ LOT SIZE _____

BUILDING IS TO BE _____ FT. WIDE BY _____ FT. LONG BY _____ FT. IN HEIGHT AND SHALL CONFORM IN CONSTRUCTION

TO TYPE 1-8 USE GROUP 22 BASEMENT WALLS OR FOUNDATION _____ (TYPE)

REMARKS: radio communications equipment storage buildings and antenna support structure

AREA OR VOLUME _____ ESTIMATED COST \$ 98,000.00 PERMIT FEE \$ 475.00
(CUBIC/SQUARE FEET) (Owner)

OWNER AAT Communications Inc. Lessee (Edward Cleary)
ADDRESS 1235 Wolcott Road Wolcott, CT 06716
see address above. BUILDING DESIGNED BY [Signature]

(Affidavit on reverse side of application to be completed by authorized agent of owner)

FORM NO. BOCA - B - 1066

EXHIBIT 7



UPS Delivery Notification, Tracking Number 1Z9Y45030314178583

UPS <pkginfo@ups.com>

Wed 1/24/2024 11:45 AM

To: Barbara Kassabian <bkassabian@clinellc.com>



Hello, your package has been delivered.

Delivery Date: Wednesday, 01/24/2024

Delivery Time: 11:44 AM

Left At: INSIDE DELIV

Signed by: DONNA

CENTERLINE SITE ACQUISITION

Tracking Number:	1Z9Y45030314178583
Ship To:	AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 018011053 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	14529533

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UPS Delivery Notification, Tracking Number 1Z9Y45030339706394

UPS <pkginfo@ups.com>

Wed 1/24/2024 12:28 PM

To: Barbara Kassabian <bkassabian@clinellc.com>



Hello, your package has been delivered.

Delivery Date: Wednesday, 01/24/2024

Delivery Time: 12:26 PM

Signed by: DESAULINERS

CENTERLINE SITE ACQUISITION

Tracking Number:	1Z9Y45030339706394
Ship To:	THOMAS G DUNN, MAYOR 10 KENEA AVENUE TOWN HALL WOLCOTT, CT 067162114 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	14529533

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UPS Delivery Notification, Tracking Number 1Z9Y45030301861573

UPS <pkginfo@ups.com>

Wed 1/24/2024 12:25 PM

To: Barbara Kassabian <bkassabian@clinellc.com>



Hello, your package has been delivered.

Delivery Date: Wednesday, 01/24/2024

Delivery Time: 12:24 PM

Signed by: PEBODY

CENTERLINE SITE ACQUISITION

Tracking Number:	1Z9Y45030301861573
Ship To:	DAVID KALINOWSKI ZONING ENFORCEMENT 10 KENEA AVENUE TOWN HALL WOLCOTT, CT 067162114 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	14529533

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