

GENERAL CONSTRUCTION NOTES:

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

- DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY AT&T MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T SPECIFICATIONS AND REQUIREMENTS.
 24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
 25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO AT&T SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
 26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
 27. CONTRACTOR SHALL NOTIFY AT&T REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
 28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.

29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE AT&T REP. ANY WORK FOUND BY THE AT&T REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
32. AT&T FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE AT&T 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.
33. AT&T OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO AT&T OR THEIR ARCHITECT/ENGINEER.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
2. STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
 - A. ASTM A-572, GRADE 50 - ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE
 - B. ASTM A-36 - ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
 - C. ASTM A-500, GRADE B - HSS SECTION (SQUARE, RECTANGULAR, AND ROUND)
 - D. ASTM A-325, TYPE SC OR N - ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS
 - E. ASTM F-1554 07 - ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE
3. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123, EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
4. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.
5. DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
6. CONNECTIONS:
 - A. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
 - B. ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE

- INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
- C. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
 - D. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BURNING/WELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IF REQUIRED SHALL HAVE FIRE DEPARTMENT DETAIL FOR ANY WELDING ACTIVITY.
 - E. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
 - F. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
 - G. PRIOR TO FIELD WELDING GALVANIZING MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/4" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
 - H. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL CONNECTIONS ARE COMPLETE.
 - I. ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE ENGINEER, AND T- MOBILE PROJECT MANAGER IN WRITING

**SPECIAL CONSTRUCTION
ANTENNA INSTALLATION NOTES:**

1. WORK INCLUDED:
 - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T 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 AT&T SPECIFICATIONS.
 - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
 - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.
 - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
 - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
 - G. ANTENNA AND COAXIAL CABLE GROUNDING:
 2. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
 3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS).

ELECTRICAL NOTES:

1. ELECTRICAL DESIGN SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR. STRUCTURAL DESIGN SHALL BE PERFORMED BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL WORK COMPLIES WITH ALL APPLICABLE LOCAL AND STATE CODES AND NATIONAL ELECTRICAL CODE.
2. ALL SUGGESTED ELECTRICAL ELEMENTS (SUCH AS BREAKER SIZES, WIRE SIZES, CONDUITS SIZES ARE FOR ZONING PURPOSES ONLY. IT IS THE RESPONSIBILITY TO OF THE ELECTRICAL CONTRACTOR TO CONFIRM COMPLIANCE WITH LOCAL ELECTRICAL CODES AND PASS ALL APPLICABLE AND NECESSARY INSPECTIONS. IN SOME EVENTS, IT MAY BE NECESSARY TO PERFORM AN ELECTRICAL LOAD STUDY TO VERIFY THE CAPACITY OF THE EXISTING SERVICE. THIS IS NOT THE RESPONSIBILITY OF CONCORDIA. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
3. CONTRACTOR SHALL FIELD LOCATE ALL BELOW GRADE GROUND LINES AND UTILITY LINES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR RELOCATION OF ALL UTILITIES AND GROUND LINES THAT MAY BECOME DISTURBED OR CONFLICTING IN THE COURSE OF CONSTRUCTION.

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



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N. ANDOVER, MA 01845 FAX: (978) 336-5586

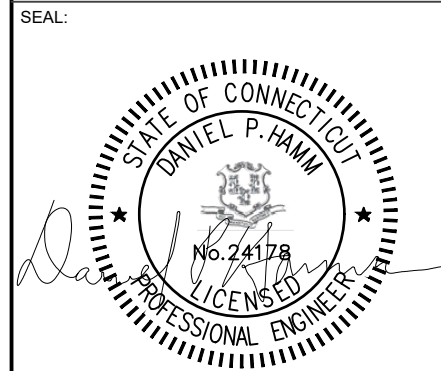
REV.	DESCRIPTION	BY	DATE
A	PRELIM	PM	04/19/22
0	FINALS	TR	05/25/22
1	FINALS REVISED	VD	06/01/22

ATC SITE NUMBER:
302524

ATC SITE NAME:
BEACON FALLS

AT&T SITE NAME:
BEACON FALLS RIMMON RILL

SITE ADDRESS:
664 RIMMON HILL ROAD
SEYMOUR, CT 06483-2722



DATE DRAWN:	04/19/22
ATC JOB NO:	13753210_G5
CUSTOMER ID:	CTL02161
CUSTOMER #:	10035091

GENERAL NOTES

SHEET NUMBER:
G-002

REVISION:
1

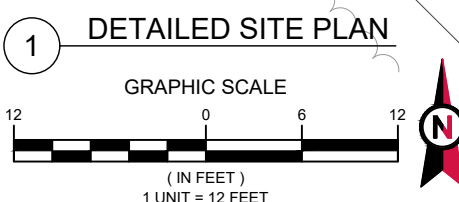
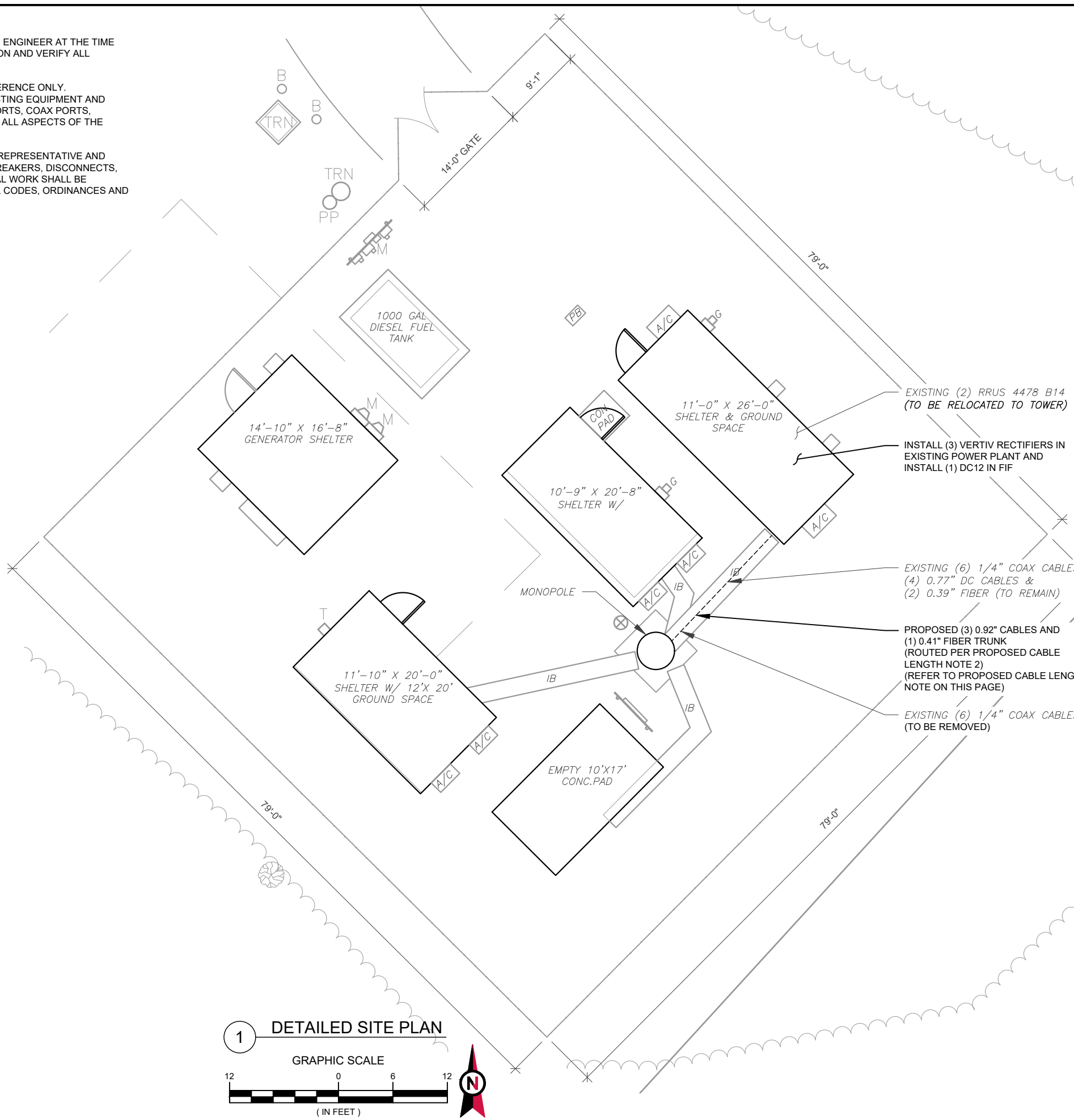
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SITE PLAN NOTES:

1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE AT&T REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.

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

- PROPOSED CABLE LENGTH:**
1. ESTIMATED LENGTH OF PROPOSED CABLE IS **210'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
 2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.



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TEL: (978) 557-5553 FAX: (978) 336-5586

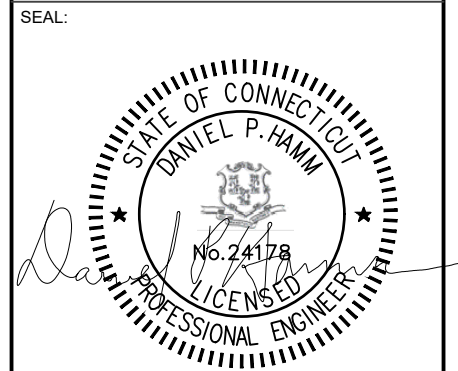
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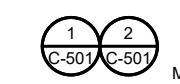
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DETAILED SITE PLAN	
SHEET NUMBER: C-101	REVISION: 1

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EXISTING AND PROPOSED AT&T EQUIPMENT AND MOUNT MODIFICATIONS

TOP OF EXISTING TOWER
ELEV 173'

AT&T TO MATCH EXISTING ANTENNA TIP HEIGHT TO AVOID OVERALL HEIGHT CHANGE

- PROPOSED AT&T
RAD CENTER @ 166'
- PROPOSED AT&T
RAD CENTER @ 164'
- PROPOSED AT&T
RAD CENTER @ 162'

EXISTING (6) 1/4" COAX CABLES,
(4) 0.77" DC CABLES &
(2) 0.39" FIBER (TO REMAIN)

EXISTING (6) 1/4" COAX CABLES
(TO BE REMOVED)

PROPOSED (3) 0.92" CABLES AND (1) 0.41" FIBER
ROUTED INSIDE POLE SHAFT PER TOWER
STRUCTURAL ANALYSIS

EXISTING TOWER

EXISTING TOP
OF BASE PLATE

1 TOWER ELEVATION
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY TELAMON TOWER ENGINEERING PLLC, DATED 04/12/22, 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.

- TOWER NOTE:**
1. 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.
 2. 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.
 3. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
 4. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)
 5. TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.



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TEL: (978) 557-5553 FAX: (978) 336-5586

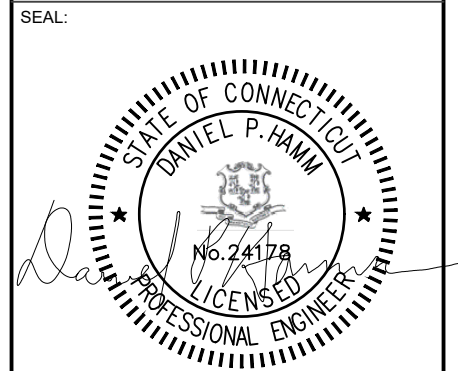
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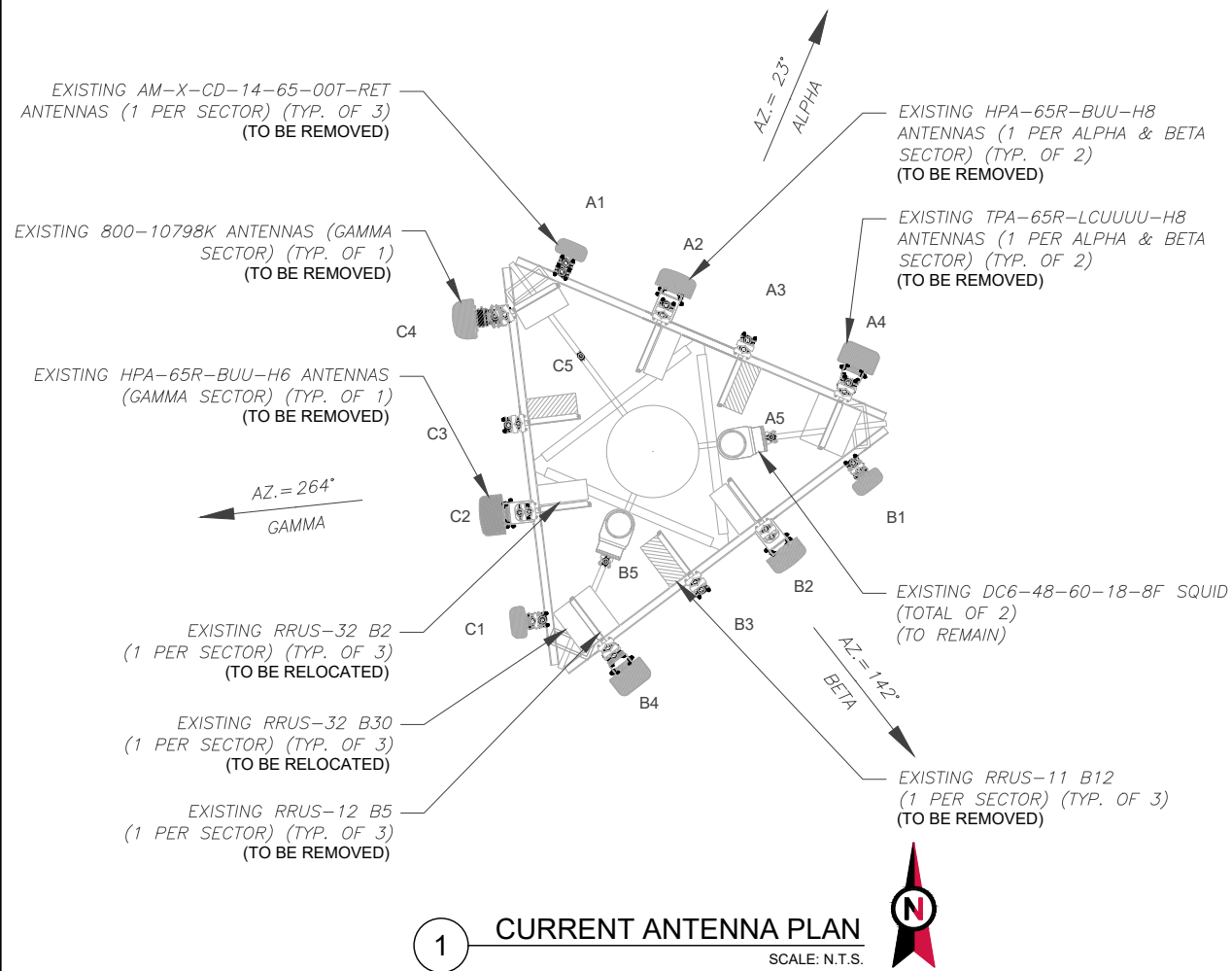


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TOWER ELEVATION	
SHEET NUMBER: C-201	REVISION: 1

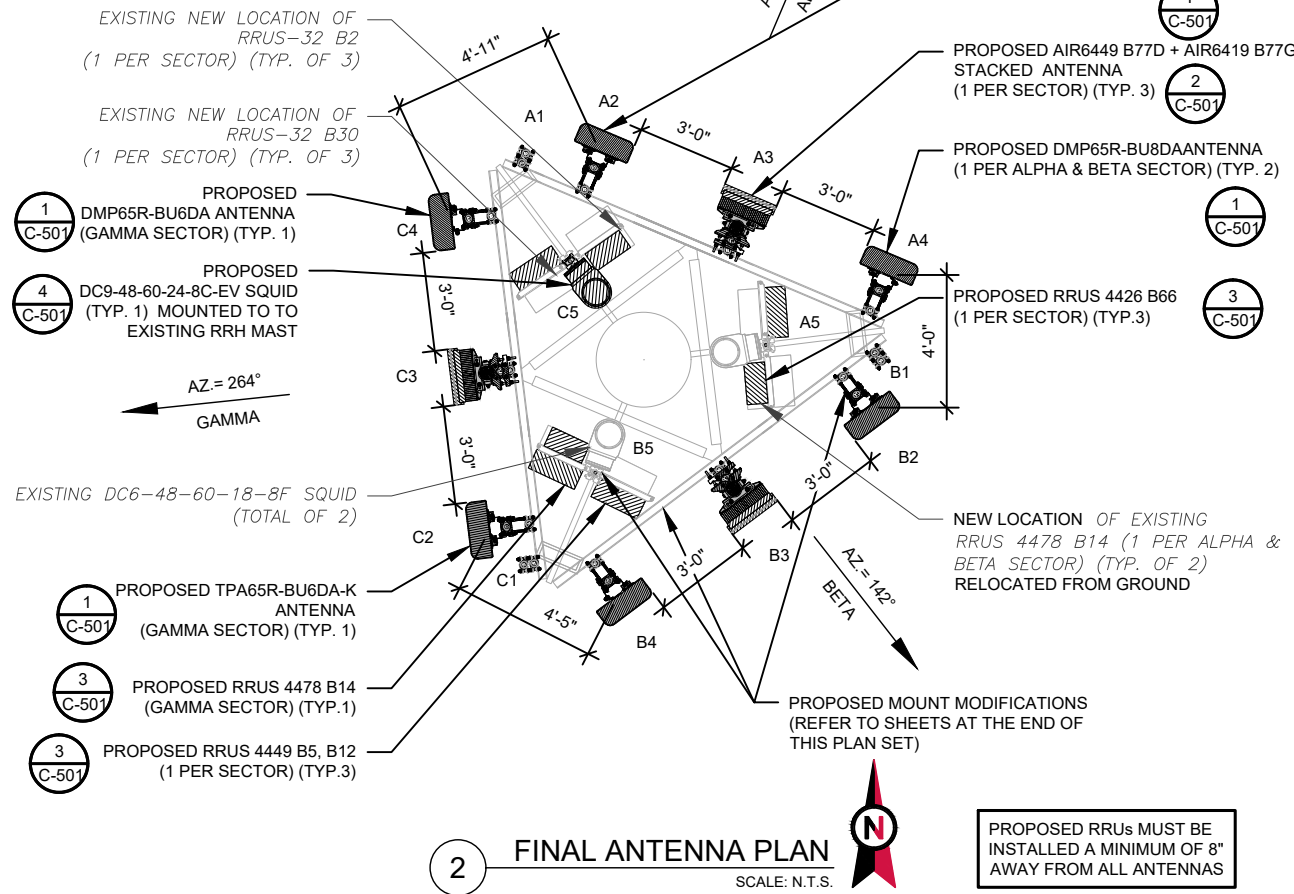
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EXISTING CONFIGURATIONS ARE BASED ON RFDS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.



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

PER MOUNT ANALYSIS COMPLETED BY TELAMON TOWER ENGINEERING PLLC, DATED 04/12/22, 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.



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

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

EXISTING ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	159'	23°	A1	AM-X-CD-14-65-00T-RET	UMTS 850,1900	RMV	-	-
			A2	HPA-65R-BUU-H8	LTE 700, 1900	RMV	RRUS-11 B12 RRUS-32 B2	RMV REL
			A3	-	-	-	-	-
			A4	TPA-65R-LCUUUU-H8	LTE 850, 700, WCS	RMV	RRUS 12 B5 RRUS-32 B30 (GROUND) 4478 B14	RMV REL REL
BETA	159'	142°	B1	AM-X-CD-14-65-00T-RET	UMTS 850,1900	RMV	-	-
			B2	HPA-65R-BUU-H8	LTE 700, 1900	RMV	RRUS-11 B12 RRUS-32 B2	RMV REL
			B3	-	-	-	-	
			B4	TPA-65R-LCUUUU-H8	LTE 850, 700, WCS	RMV	RRUS 12 B5 RRUS-32 B30 (GROUND) 4478 B14	RMV REL REL
GAMMA	159'	264°	C1	AM-X-CD-14-65-00T-RET	UMTS 850,1900	RMV	-	-
			C2	HPA-65R-BUU-H6	LTE 700, 1900	RMV	RRUS-11 B12 RRUS-32 B2	RMV REL
			C3	-	-	-	-	
			C4	800-10798K	LTE 850, 700, WCS	RMV	RRUS 12 B5 RRUS-32 B30	RMV REL

EXISTING FIBER DISTRIBUTION/SQUID			EXISTING CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	CONDUIT	DC	FIBER	STATUS
(2) DC6-48-60-18-8F	RMN	(6) 1-1/4"	(3) 2"	(4) 0.77"	(2) 0.39"	RMN
-	-	(6) 1-1/4"	-	-	-	RMV

- NOTES**
- CONFIRM WITH AT&T REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
 - CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
 - THE ANTENNA ORIENTATION PLAN IS A SCHEMATIC. ATC DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, ANTENNA AZIMUTHS, MOUNT CONFIGURATIONS AND TOWER ORIENTATION. SCALES SHOWN ARE FOR REFERENCE ONLY AND EXISTING DIMENSIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION AND NOTIFY ATC OF ANY DISCREPANCIES.
 - CONTRACTOR TO ENSURE PROPER SEPARATION IN ACCORDANCE WITH AT&T'S FIRSTNET REQUIREMENTS (SEE SHEET R-602)

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

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

3 EQUIPMENT SCHEDULES

FINAL ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	159'	23°	A1	-	-	EMPTY	-	-
			A2	TPA65R-BU8DA-K	LTE B14 / PCS / AWS	ADD	RRUS 4478 B14 RRUS 32 B2 RRUS 4426 B66	REL REL ADD
			A3UP	AIR 6419 B77G	DOD	ADD	-	-
			A3DN	AIR 6449 B77D	C-BAND	ADD	-	-
BETA	159'	142°	B1	-	-	EMPTY	-	-
			B2	TPA65R-BU8DA-K	LTE B14 / PCS / AWS	ADD	RRUS 4478 B14 RRUS 32 B2 RRUS 4426 B66	REL REL ADD
			B3UP	AIR 6419 B77G	DOD	ADD	-	-
			B3DN	AIR 6449 B77D	C-BAND	ADD	-	-
GAMMA	159'	264°	C1	-	-	EMPTY	-	-
			C2	TPA65R-BU6DA-K	LTE B14 / PCS / AWS	ADD	RRUS 4478 B14 RRUS 32 B2 RRUS 4426 B66	ADD REL ADD
			C3UP	AIR 6419 B77G	DOD	ADD	-	-
			C3DN	AIR 6449 B77D	C-BAND	ADD	-	-
			C4	DMP65R-BU6DA	LTE 700 BC / 850 / WCS	ADD	RRUS 4449 B5/B12 RRUS 32 B30	ADD REL

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

FINAL FIBER DISTRIBUTION/SQUID			FINAL CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	CONDUIT	DC	FIBER	STATUS
(2) DC6-48-60-18-8F	RMN	(6) 1-1/4"	(3) 2"	(4) 0.77"	(2) 0.39"	RMN
(1) DC9-48-60-24-8C-EV	ADD	-	(2) 2"	(3) 0.92"	(1) 0.41"	ADD



45 BEECHWOOD DRIVE
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

REV.	DESCRIPTION	BY	DATE
A	PRELIM	PM	04/19/22
0	FINALS	TR	05/25/22
1	FINALS REVISED	VD	06/01/22

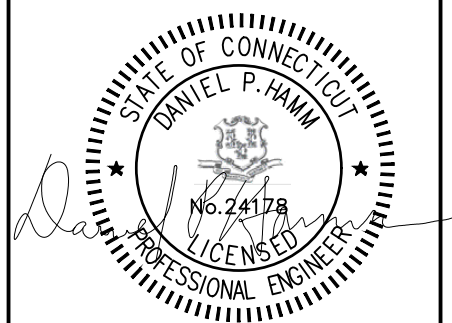
ATC SITE NUMBER:
302524

ATC SITE NAME:
BEACON FALLS

AT&T SITE NAME:
BEACON FALLS RIMMON RILL

SITE ADDRESS:
664 RIMMON HILL ROAD
SEYMOUR, CT 06483-2722

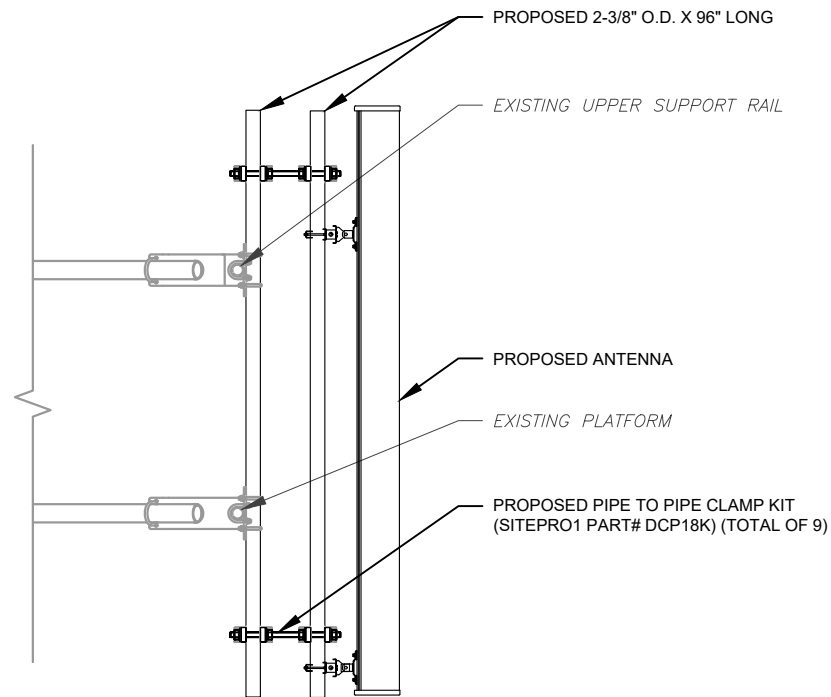
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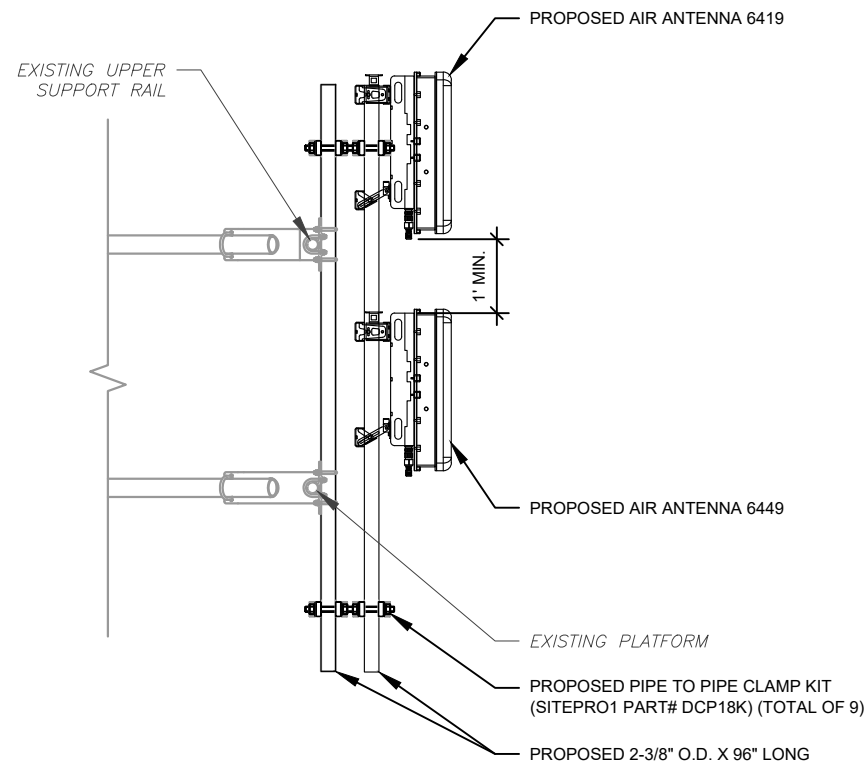
DATE DRAWN: 04/19/22
ATC JOB NO: 13753210_G5
CUSTOMER ID: CTL02161
CUSTOMER #: 10035091

RF SCHEDULE AND
ANTENNA INSTALLATION

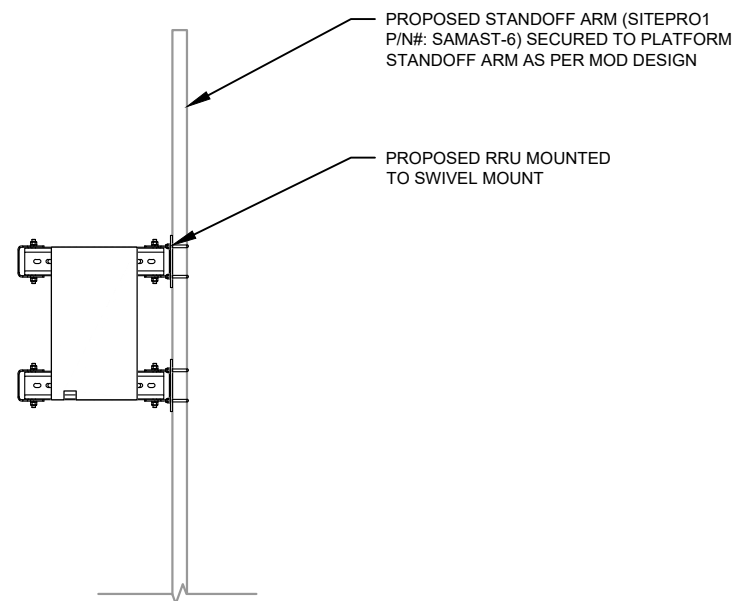
SHEET NUMBER:
C-401
REVISION:
1



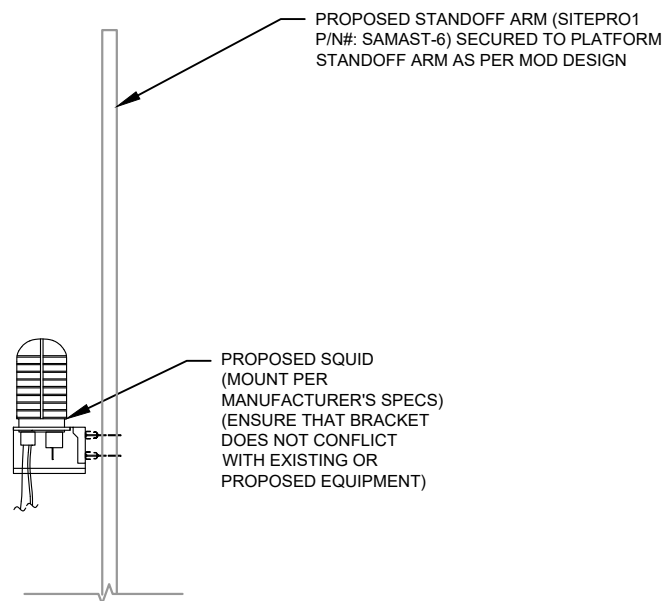
1 ANTENNA DETAIL
SCALE: N.T.S.



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



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



4 PROPOSED SQUID MOUNTING
SCALE: N.T.S.



45 BEECHWOOD DRIVE TEL: (978) 557-5553
N. ANDOVER, MA 01845 FAX: (978) 336-5586

REV.	DESCRIPTION	BY	DATE
A	PRELIM	PM	04/19/22
0	FINALS	TR	05/25/22
1	FINALS REVISED	VD	06/01/22

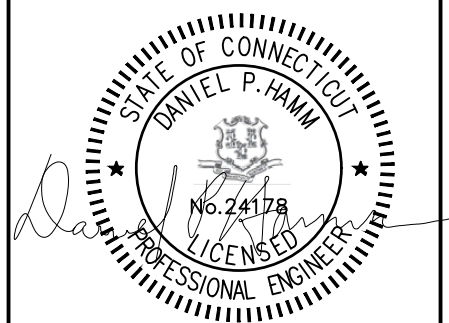
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302524

ATC SITE NAME:
BEACON FALLS

AT&T SITE NAME:
BEACON FALLS RIMMON RILL

SITE ADDRESS:
664 RIMMON HILL ROAD
SEYMOUR, CT 06483-2722

SEAL:

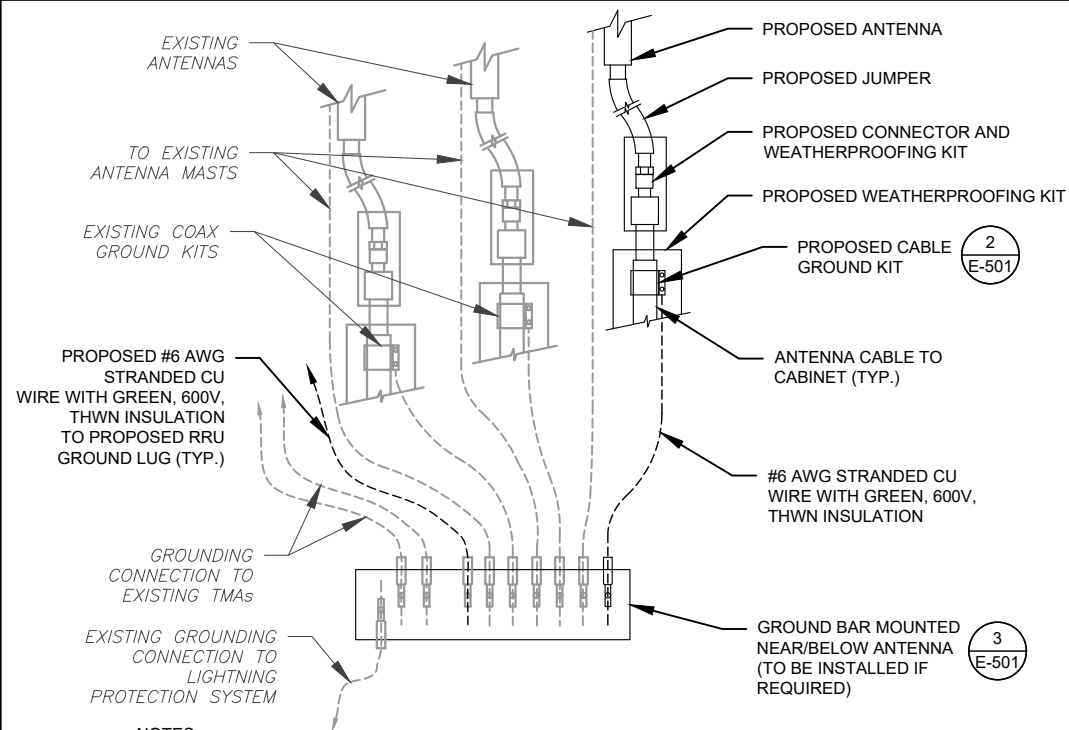


DATE DRAWN:	04/19/22
ATC JOB NO:	13753210_G5
CUSTOMER ID:	CTL02161
CUSTOMER #:	10035091

CONSTRUCTION
DETAILS

SHEET NUMBER: C-501	REVISION: 1
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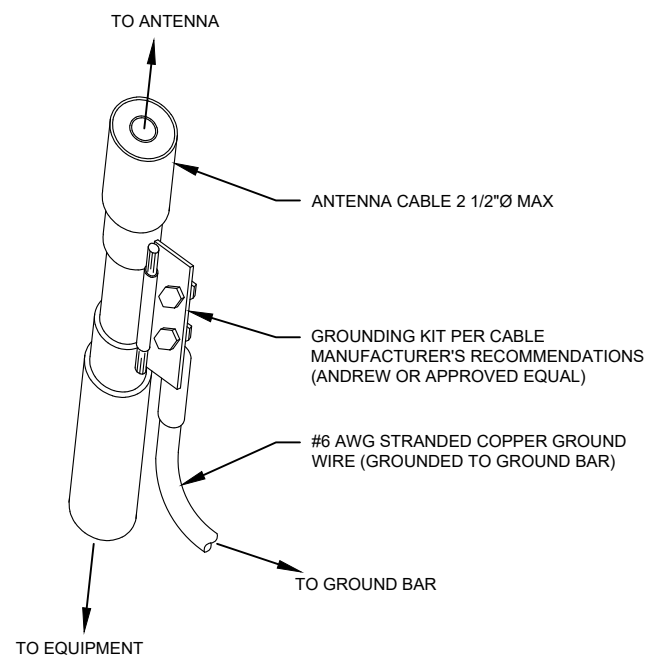
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NOTES:

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

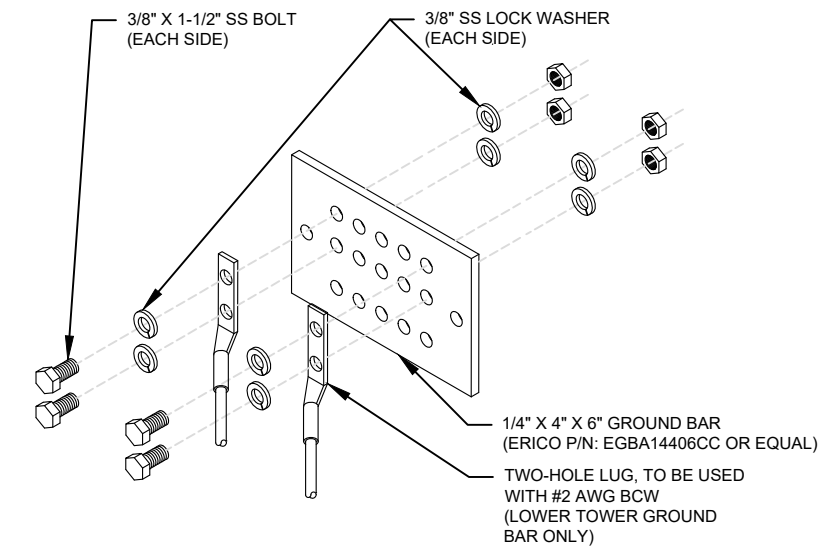
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



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.

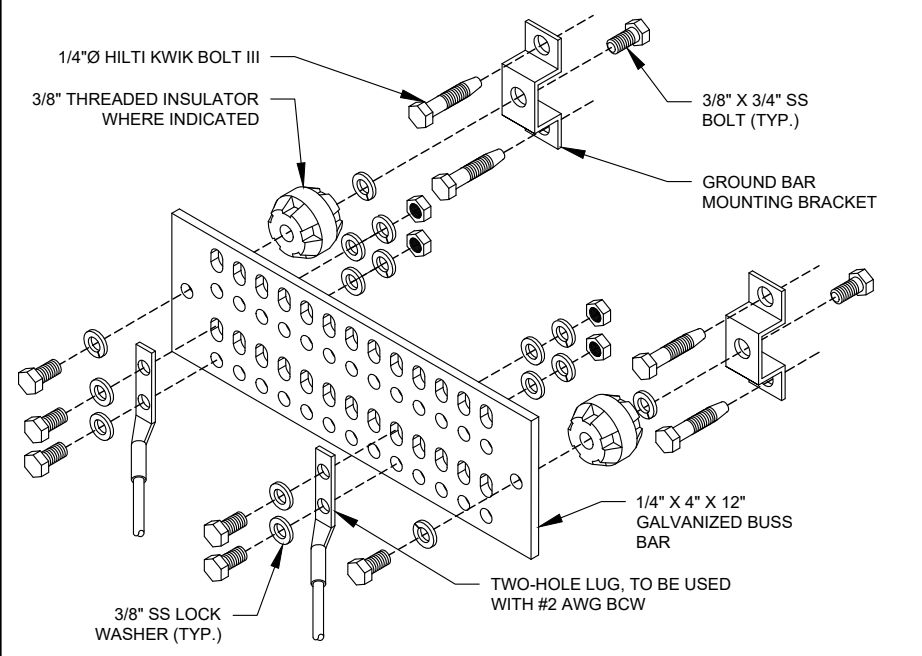
2 CABLE GROUND KIT CONNECTION DETAIL
SCALE: N.T.S.



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. CONTRACTOR TO ENSURE AT&T UL467 COMPLIANCE WHEN ASSEMBLING KITS

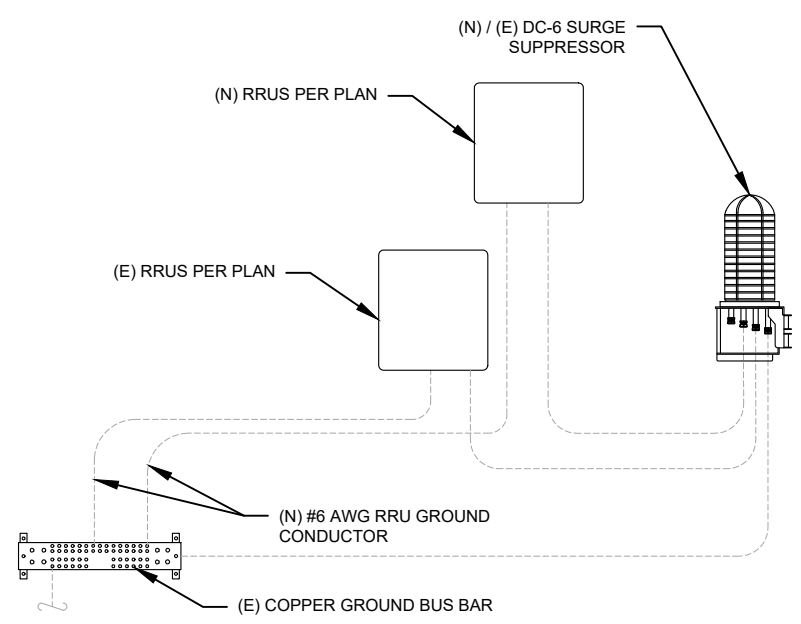
3 TOWER GROUND BAR DETAIL
SCALE: N.T.S.



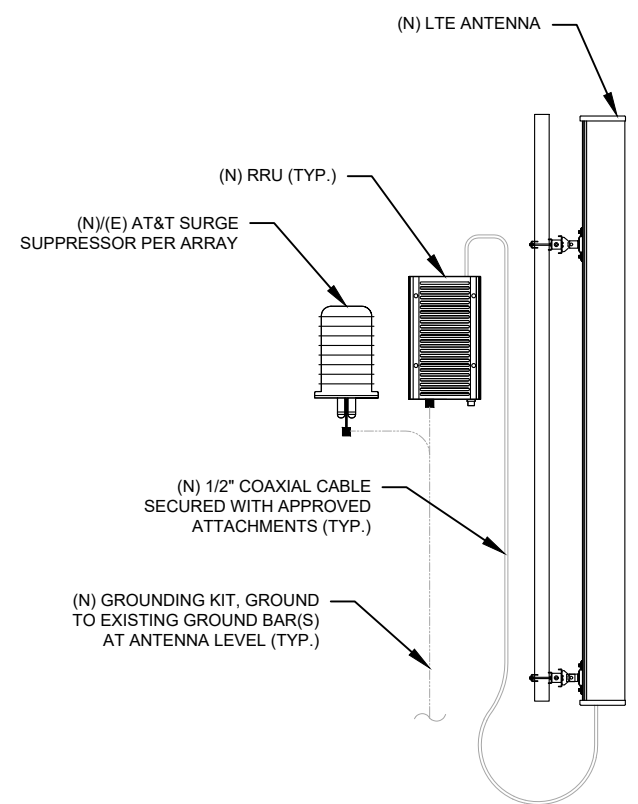
GROUND BAR NOTES

1. GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.
3. CONTRACTOR TO ENSURE AT&T UL467 COMPLIANCE WHEN ASSEMBLING KITS

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



5 RRU GROUNDING
SCALE: N.T.S.



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



45 BEECHWOOD DRIVE N. ANDOVER, MA 01845
TEL: (978) 557-5553 FAX: (978) 336-5586

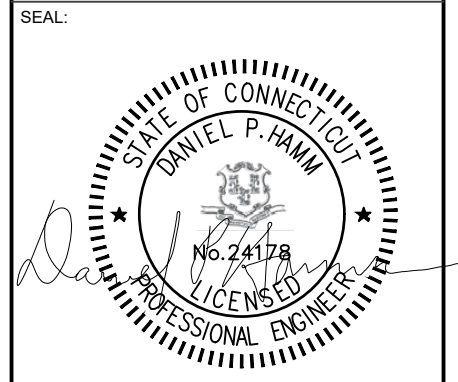
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A	PRELIM	PM	04/19/22
0	FINALS	TR	05/25/22
1	FINALS REVISED	VD	06/01/22

ATC SITE NUMBER:
302524

ATC SITE NAME:
BEACON FALLS

AT&T SITE NAME:
BEACON FALLS RIMMON RILL

SITE ADDRESS:
664 RIMMON HILL ROAD
SEYMOUR, CT 06483-2722

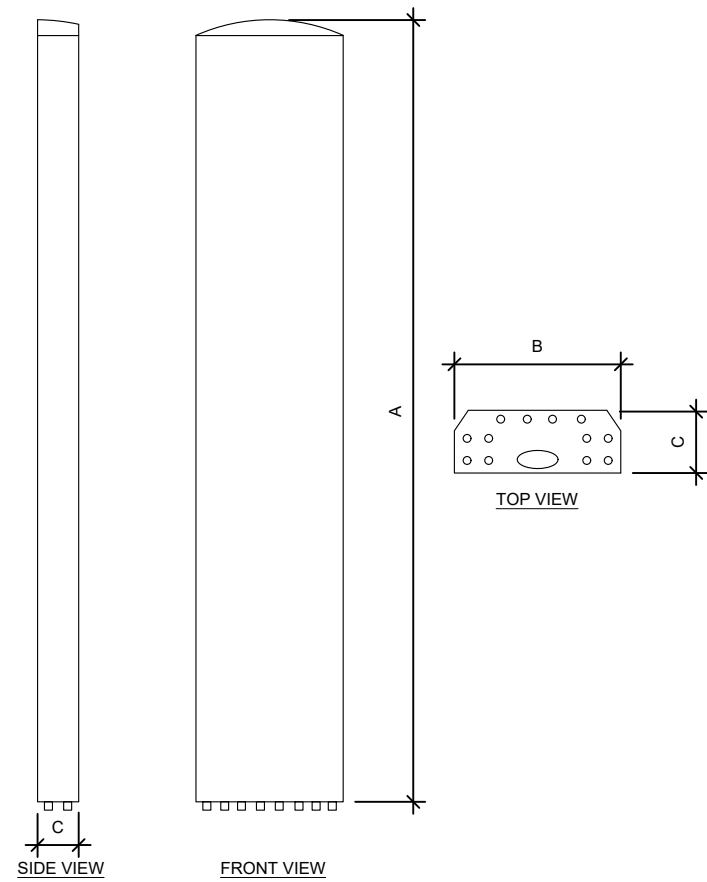


DATE DRAWN:	04/19/22
ATC JOB NO:	13753210_G5
CUSTOMER ID:	CTL02161
CUSTOMER #:	10035091

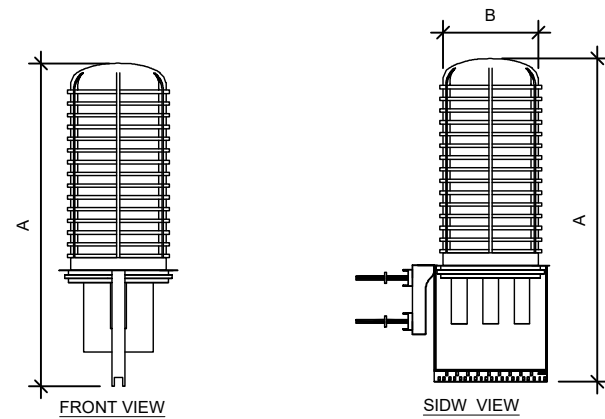
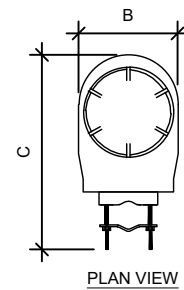
GROUNDING DETAILS

SHEET NUMBER: E-501	REVISION: 1
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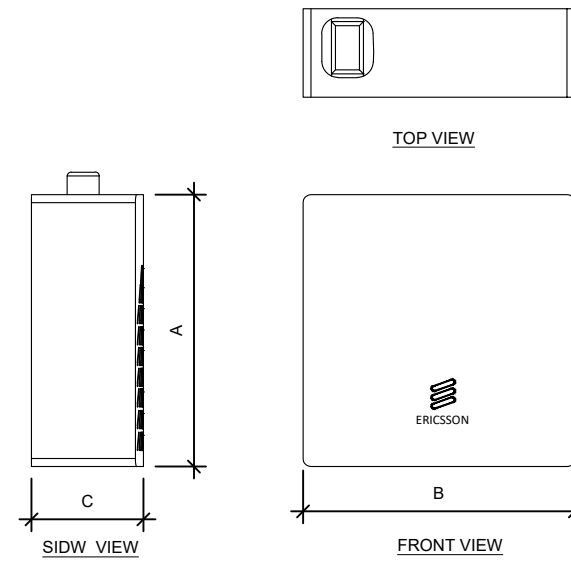
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ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
TPA65R-BU8DA-K	96.0"	20.7"	7.7"	87.1
AIR 6419 B77G	15.7"	30.0"	6.7"	102.5
AIR 6449 B77D	15.9"	30.4"	8.1"	103.6
DMP65R-BU8DA	96.0"	20.7"	7.7"	95.7
TPA65R-BU6DA-K	71.2"	20.7"	7.7"	69.0
DMP65R-BU6DA	71.2"	20.7"	7.7"	79.4



RAYCAP SPECIFICATIONS				
RAYCAP MODEL	A	B	C	WEIGHT (LBS)
DC9-48-60-24-8C-EV	31.4"	18.3"	10.2"	16.0



RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
RRUS 4426 B66	15.0"	13.2"	5.8"	48.4
RRUS 4449 B5/B12	17.9"	13.2"	9.4"	71.0
RRUS 4478 B14	18.1"	13.4"	8.3"	59.4

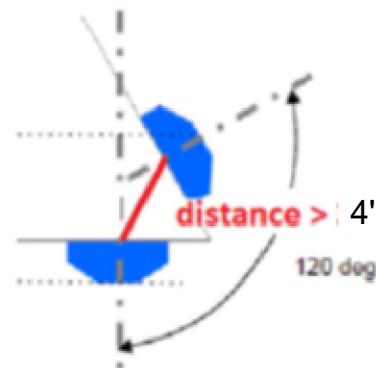
1 EQUIPMENT SPECIFICATIONS
SCALE: N.T.S.

SUPPLEMENTAL

SHEET NUMBER: R-601
REVISION: 1

RF REQUIREMENTS FOR 700 B14 FIRSTNET, 700 B12, 700D B29 ANTENNA SEPARATION

- ❑ Horizontal separation (side to side of antenna): $\geq 3'$
- ❑ Vertical separation (between the tips of the antennas): $> 3'$
- ❑ Inter-sector separation: $> 4'$ between the center of the antenna backplanes.



- ❑ Please note additional horizontal separation may be required if B14 antennas azimuth are different from others or antennas are severely angled with respect to the mount.
- ❑ Typical 3' horizontal separation can tolerate skew angle up to 6° .



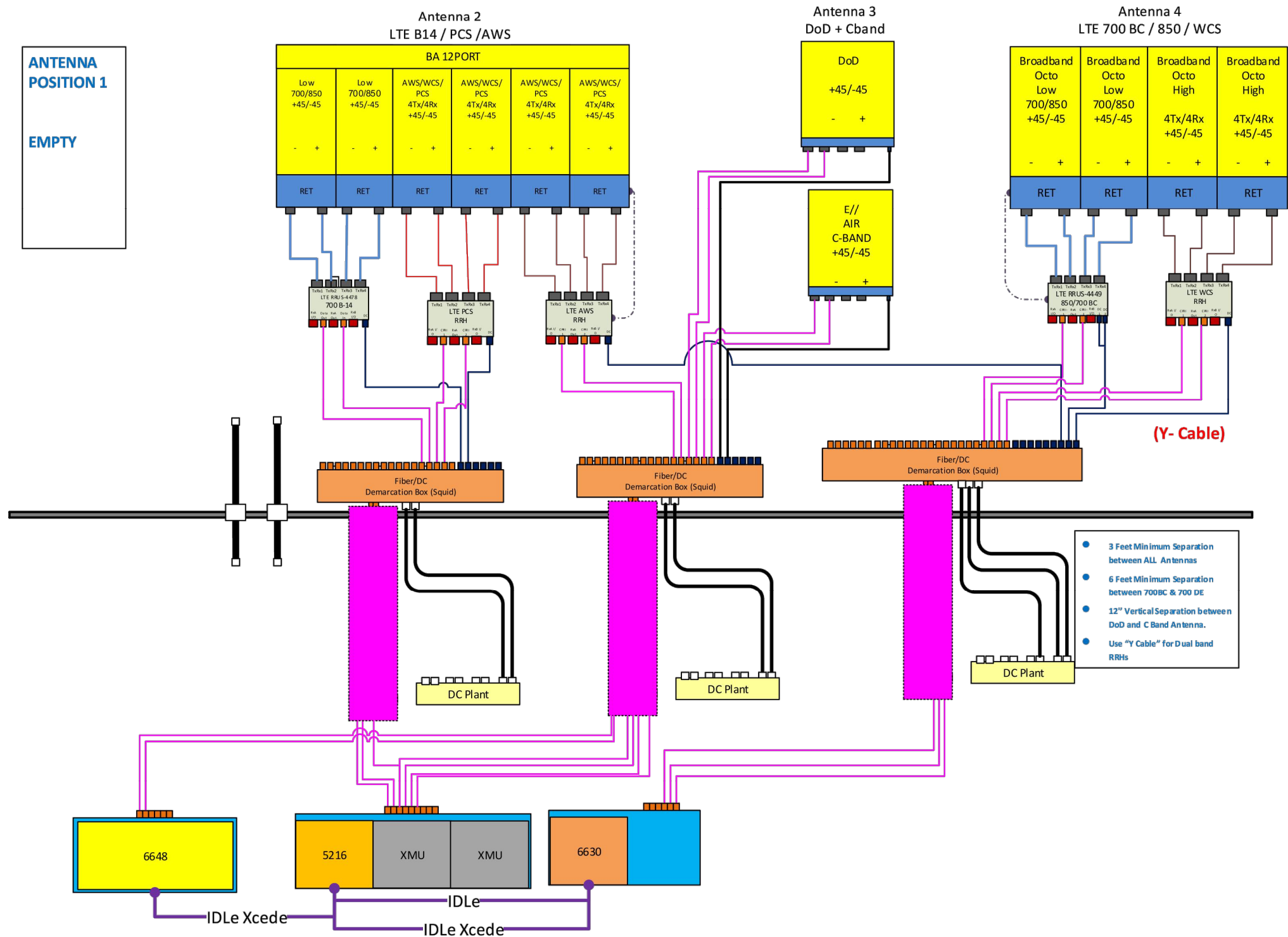
NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER:
R-602

REVISION:
1

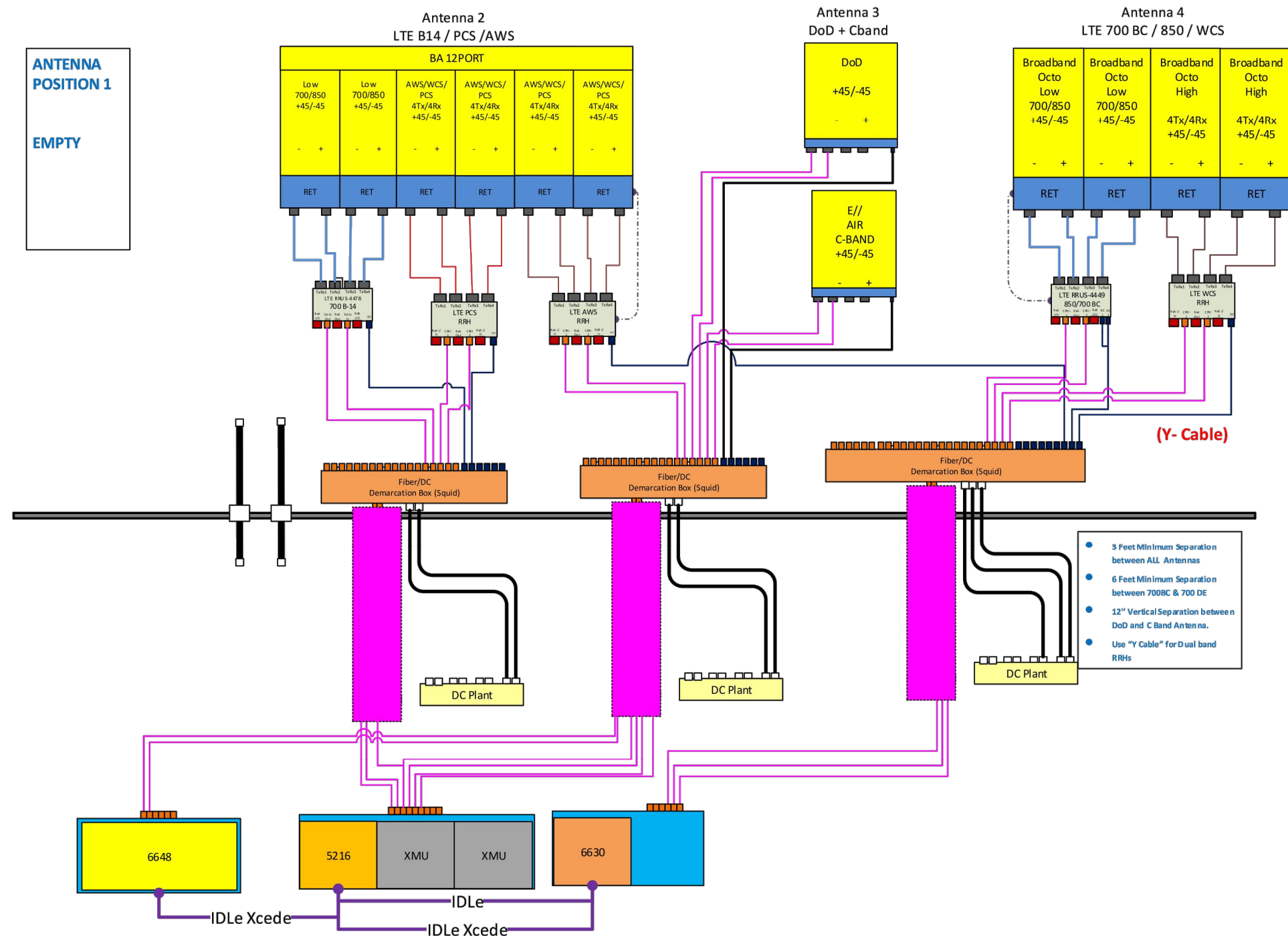
ANTENNA POSITION 1
 EMPTY



NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. GENERAL CONTRACTOR IS TO CHECK WITH THE AT&CM TO ENSURE THIS IS THE MOST RECENT VERSION OF THE RFDS.

Diagram - Sector B Diagram File Name - Cband_3Ant_BA12_COAX_DoD_CB_DMP_AWS_PCS_2DCFIB_1DC9_1x5216_2XMU_6630_6648.vsd
 Atoll Site Name - CTL02161 Location Name - BEACON FALLS RIMMON Market - CONNECTICUT Market Cluster - NEW ENGLAND
 Comments:

ANTENNA POSITION 1
 EMPTY

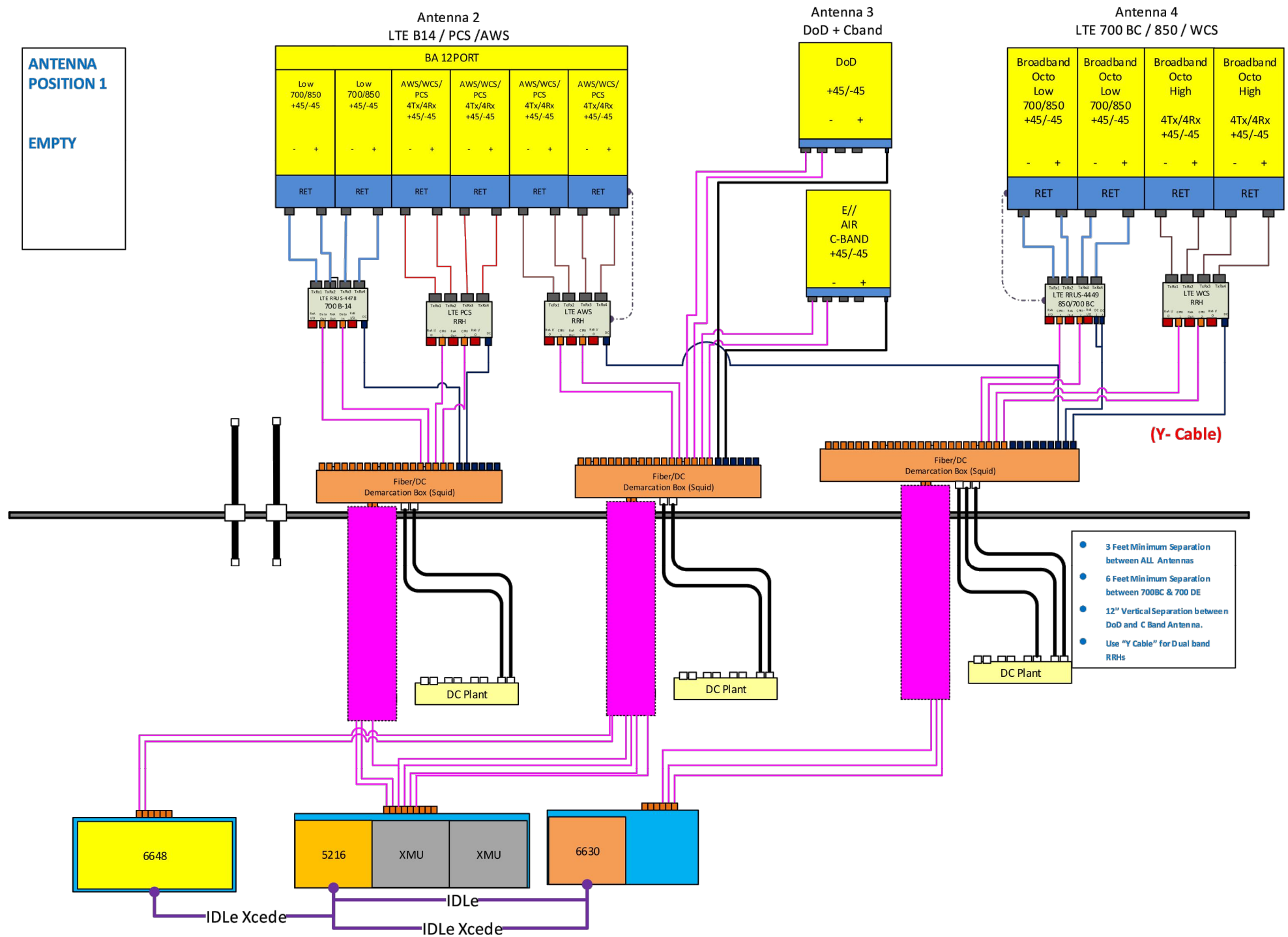


- 3 Feet Minimum Separation between ALL Antennas
- 6 Feet Minimum Separation between 700BC & 700 DE
- 12" Vertical Separation between DoD and C Band Antenna.
- Use "Y Cable" for Dual band RRHs

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. GENERAL CONTRACTOR IS TO CHECK WITH THE AT&CM TO ENSURE THIS IS THE MOST RECENT VERSION OF THE RFDS.

SUPPLEMENTAL	
SHEET NUMBER: R-604	REVISION: 1

ANTENNA POSITION 1
 EMPTY

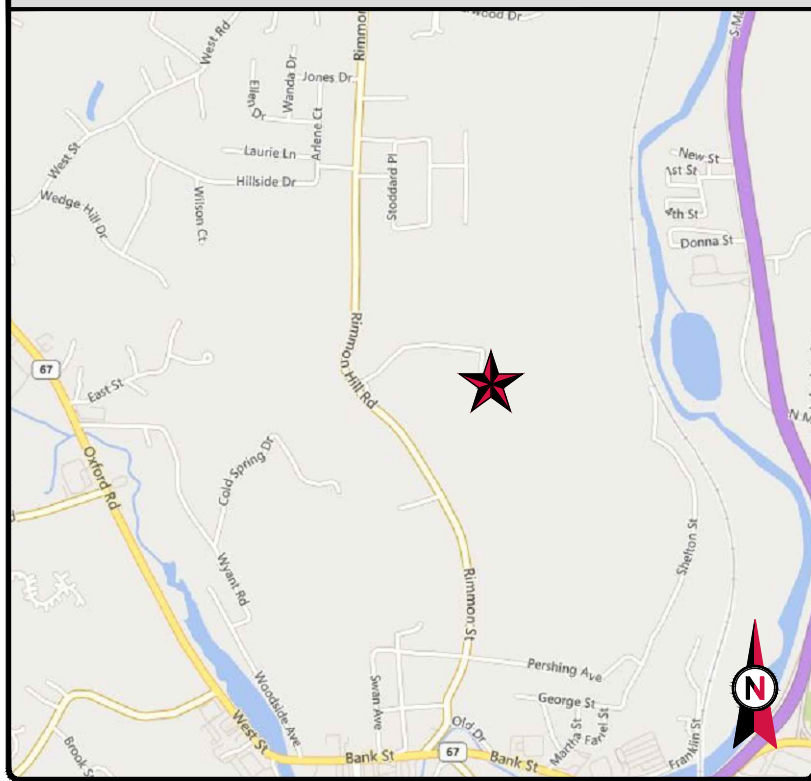


- 3 Feet Minimum Separation between ALL Antennas
- 6 Feet Minimum Separation between 700BC & 700 DE
- 12" Vertical Separation between DoD and C Band Antenna.
- Use "Y Cable" for Dual band RRHs

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. GENERAL CONTRACTOR IS TO CHECK WITH THE AT&T CM TO ENSURE THIS IS THE MOST RECENT VERSION OF THE RFDS.

SUPPLEMENTAL	
SHEET NUMBER: R-605	REVISION: 1

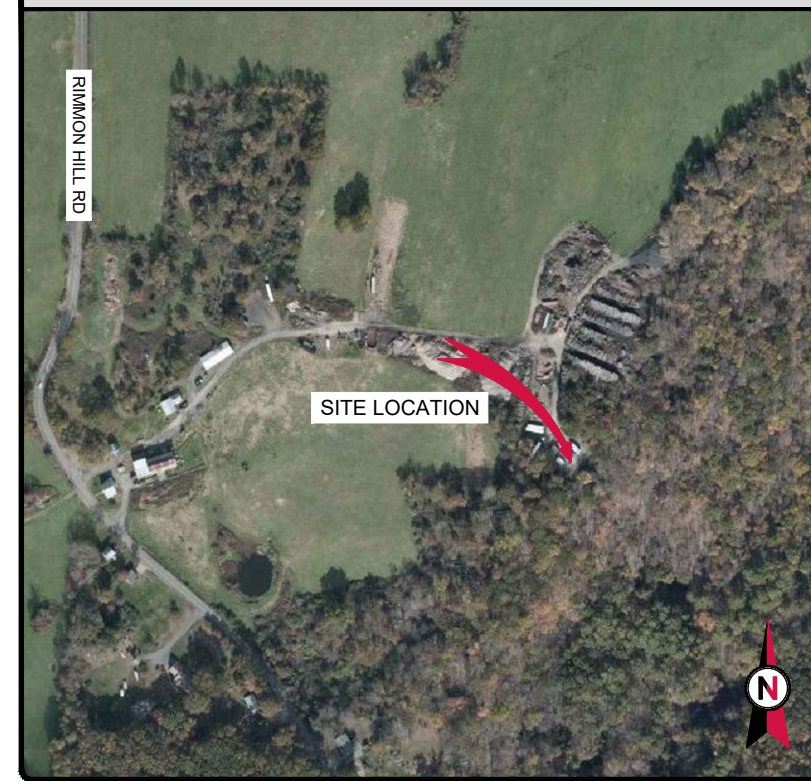
VICINITY MAP



AMERICAN TOWER®

SITE NAME: BEACON FALLS
SITE NUMBER: 302524
ATC PROJECT NUMBER: 13753210_C9_05
SITE ADDRESS: 664 RIMMON HILL ROAD
 SEYMOUR, CT 06483-2722

LOCATION MAP



319 CHAPANOKE RD, SUITE 118
 RALEIGH, NC 27603
 PH: (405)348-5460 FAX: (405)341-4625
 TELAMON TOWER ENGINEERING PLLC PROJECT ID:
 41124-ATC MA-302524-13753210

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION 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. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. 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 OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	DRAWN BY	DATE
A	PRELIMINARY	RM	04/11/2022
0	FOR CONSTRUCTION	RM	04/12/2022

ATC SITE NUMBER:
 302524
 ATC SITE NAME:
 BEACON FALLS
 CONNECTICUT
 SITE ADDRESS:
 664 RIMMON HILL ROAD
 SEYMOUR, CT 06483-2722

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

PROJECT TEAM

TOWER OWNER:
 AMERICAN TOWER
 10 PRESIDENTIAL WAY
 WOBURN, MA 1801

ENGINEERED BY:
 TELAMON TOWER ENGINEERING PLLC.
 319 CHAPANOKE ROAD, SUITE 118
 RALEIGH, NC 27603

CARRIER INFORMATION:
 CARRIER: AT&T MOBILITY
 CARRIER SITE NAME: MRCTB056179
 CARRIER SITE NUMBER: MRCTB056179
 CARRIER SITE ID: 10035091

811 LOGO



**CALL CONNECTICUT ONE-CALL
 3 DAYS BEFORE YOU DIG
 811 OR 1-800-922-4455**

PROJECT LOCATION (GEO COORDINATES)

- LATITUDE: 41.40719444°
- LONGITUDE: -73.0793°

PROJECT DESCRIPTION

THE MODIFICATIONS PRESENTED ON THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE STRUCTURAL ANALYSIS COMPLETED UNDER THE PROJECT NUMBER 13753210_C8_04 DATED MARCH 10, 2022. SATISFACTORY COMPLETION OF THE WORK INDICATED ON THESE DRAWINGS WILL RESULT IN THE STRUCTURE MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE STRUCTURAL WAS COMPLETED.

PROJECT NOTE

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 § 1.6100 (B)(7).

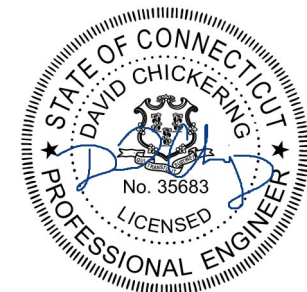
COMPLIANCE CODE

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 ARE TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- TIA: STRUCTURAL STANDARDS (222-H EDITION)

DRAWING INDEX

SHEET	SHEET TITLE	REV
G-002	IBC GENERAL NOTES & MODIFICATION INSPECTION	0
S-101	MODIFICATION PROFILE	0
S-102	MODIFICATION REINFORCEMENT LIST	0
S-103	SAFETY CLIMB LAYOUT	0
S-501	MODIFICATION DETAILS	0
R-901	SUPPLEMENTAL	0
R-902	SUPPLEMENTAL	0
R-903	SUPPLEMENTAL	0
R-904	SUPPLEMENTAL	0
R-905	SUPPLEMENTAL	0



David Chickering
 Telamon Tower Engineering PLLC
 PE # 35683 Exp. 01/31/2023

04/12/2022

DRAWN BY:	RM
APPROVED BY:	DC
DATE DRAWN:	04/12/2022
ATC JOB NO:	13753210_C9_05

SHEET TITLE
 COVER PAGE

SHEET NUMBER
G-001

REVISION
0

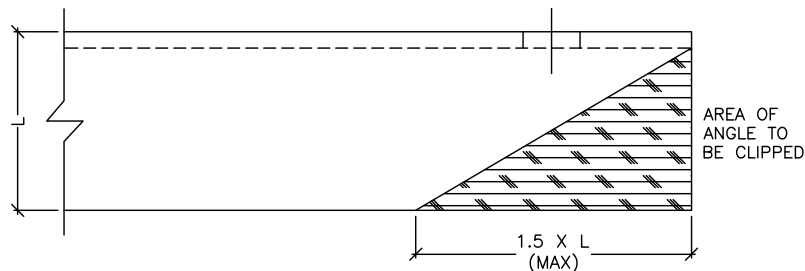
GENERAL

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

STRUCTURAL STEEL

- ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS, LATEST EDITION.
- ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
- ALL U-BOLTS SHALL BE ASTM A36 OR EQUIVALENT, WITH LOCKING DEVICE, UNLESS NOTED OTHERWISE.
- FIELD CUT EDGES, EXCEPT DRILLED HOLES, SHALL BE GROUND SMOOTH.
- ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
- ALL STRUCTURAL STEEL EMBEDDED IN THE CONCRETE SHALL BE APPLIED WITH (2) BRUSHED COATS OF POLYGUARD CA-9 MASTIC OR EQUIVALENT. REFER TO THE MANUFACTURER SPECIFICATIONS FOR SURFACE PREPARATION AND APPLICATION. APPLICATION OF POLYGUARD 400 WRAP IS NOT ESSENTIAL.
- CONTRACTOR SHALL PERFORM WORK ON ONLY ONE (1) TOWER FACE AND REPLACE/REINFORCE ONE (1) BOLT/MEMBER AT A TIME.
- ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.

MAXIMUM ALLOWABLE ANGLE CLIP



PAINT

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

WELDING

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

BOLT TIGHTENING PROCEDURE

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

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

BOLT LENGTHS OVER FOUR DIAMETERS BUT NOT EXCEEDING EIGHT DIAMETERS		
1/2"	BOLTS 2.25 TO AND INCLUDING 4.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
5/8"	BOLTS 2.75 TO AND INCLUDING 5.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
3/4"	BOLTS 3.25 TO AND INCLUDING 6.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
7/8"	BOLTS 3.75 TO AND INCLUDING 7.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1"	BOLTS 4.25 TO AND INCLUDING 8.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS 4.75 TO AND INCLUDING 9.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS 5.25 TO AND INCLUDING 10.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-3/8"	BOLTS 5.75 TO AND INCLUDING 11.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/2"	BOLTS 6.25 TO AND INCLUDING 12.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT

BOLT TIGHTENING PROCEDURE (CONTINUED)

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

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

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

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

MODIFICATION INSPECTION

MODIFICATION INSPECTION NOTES:

- THE MOUNT MODIFICATION INSPECTION (MMI) PROCEDURE IS INTENDED TO CONFIRM THAT CONSTRUCTION AND INSTALLATION MEETS ENGINEERING DESIGN, ATC PROCEDURES AND ATC STANDARD SPECIFICATIONS FOR WIRELESS TOWER SITES. TO ENSURE THAT THE REQUIREMENTS OF THE MMI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR SUBMIT ALL REQUIRED PHOTOGRAPHS AND DRAWINGS TO AMERICAN TOWER CORPORATIONS (ATC).

GENERAL CONTRACTOR:

- THE GENERAL CONTRACTOR IS REQUIRED TO:
 - REVIEW THE REQUIREMENTS OF THE MMI CHECKLIST.
 - UNDERSTAND ALL INSPECTION REQUIREMENTS.
- THE GENERAL CONTRACTOR SHALL PERFORM AND RECORD THE INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MMI CHECKLIST.

MOUNT MODIFICATION INSPECTION CHECKLIST

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

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



319 CHAPANOKE RD, SUITE 118
RALEIGH, NC 27603
PH: (405)348-5460 FAX: (405)341-4625
TELAMON TOWER ENGINEERING PLLC PROJECT ID:
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0	FOR CONSTRUCTION	RM	04/12/2022

ATC SITE NUMBER:

302524

ATC SITE NAME:

BEACON FALLS
CONNECTICUT

SITE ADDRESS:

664 RIMMON HILL ROAD
SEYMOUR, CT 06483-2722



David Chickering
Telamon Tower Engineering PLLC
PE # 35683 Exp. 01/31/2023

04/12/2022

DRAWN BY:	RM
APPROVED BY:	DC
DATE DRAWN:	04/12/2022
ATC JOB NO:	13753210_C9_05

SHEET TITLE

IBC GENERAL NOTES &
MODIFICATION INSPECTION

SHEET NUMBER

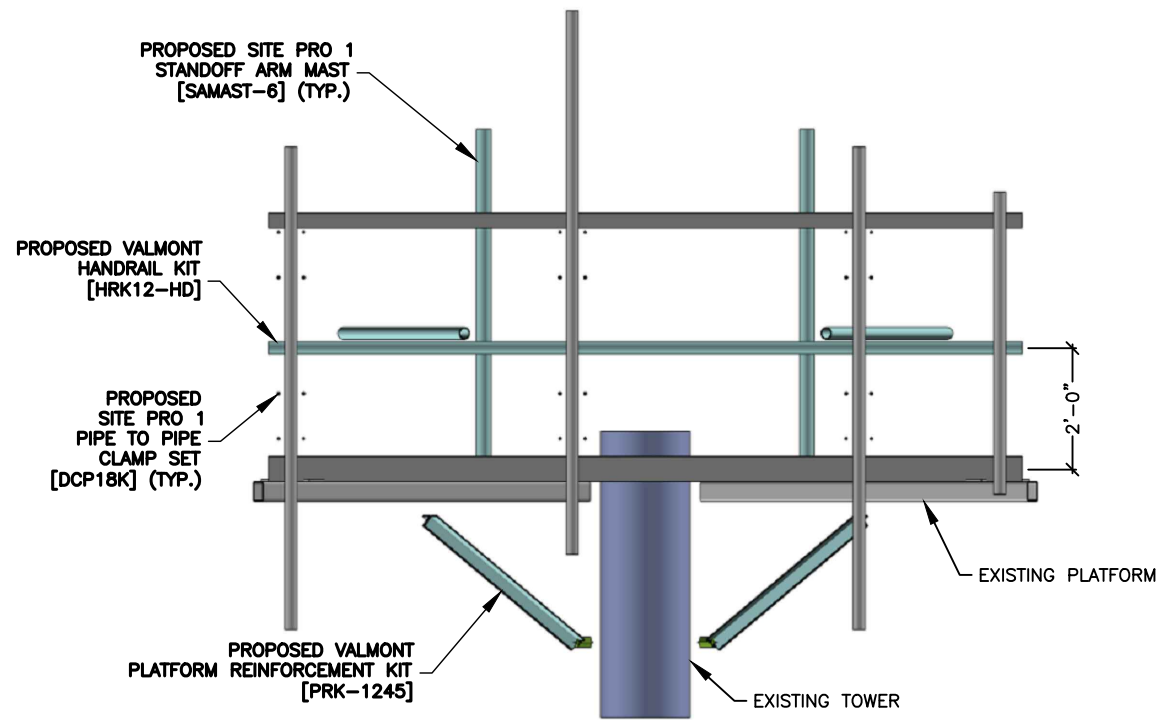
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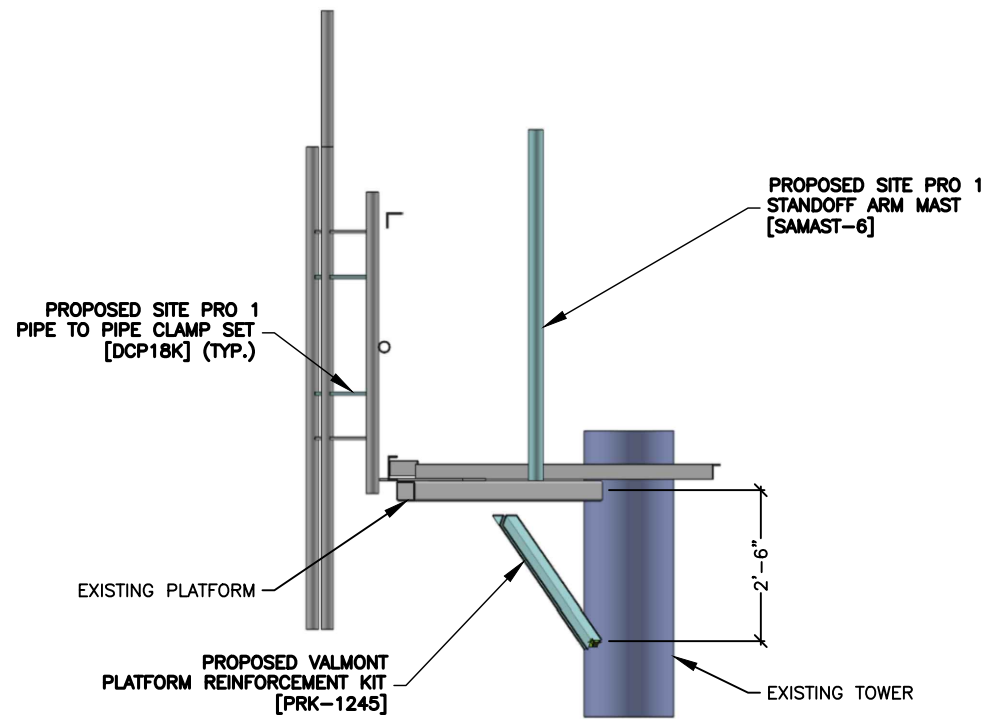
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REFERENCE NOTE

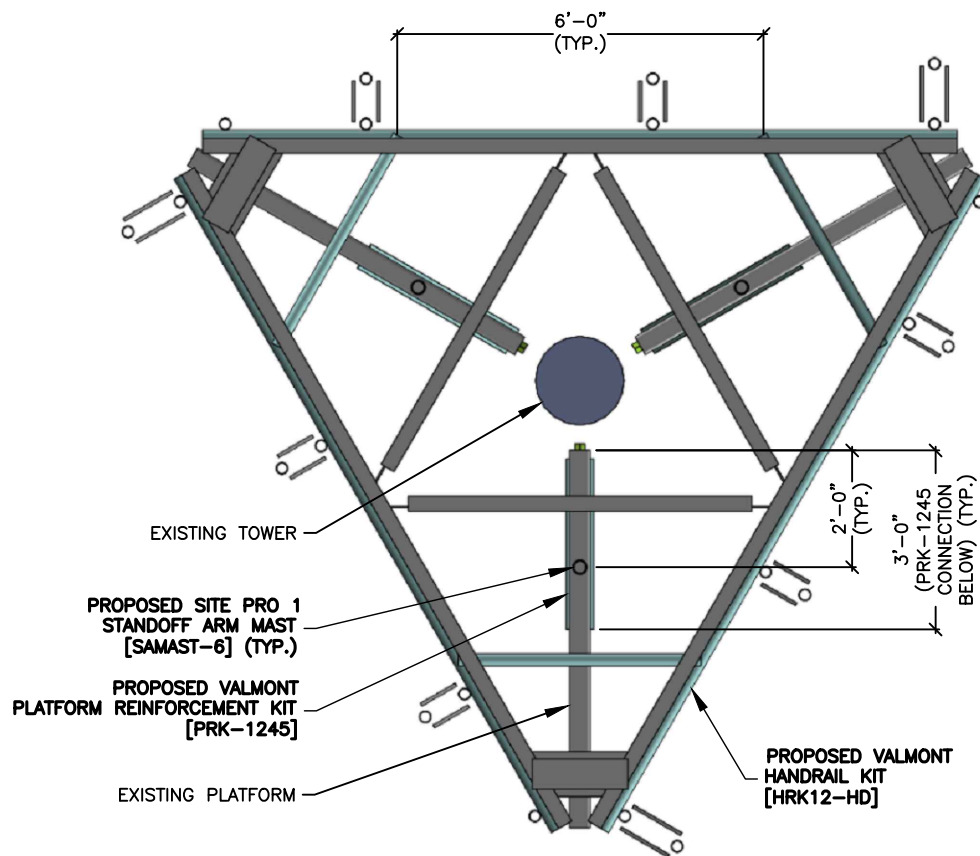
SEE SHEET S-501 FOR PART DETAILS.



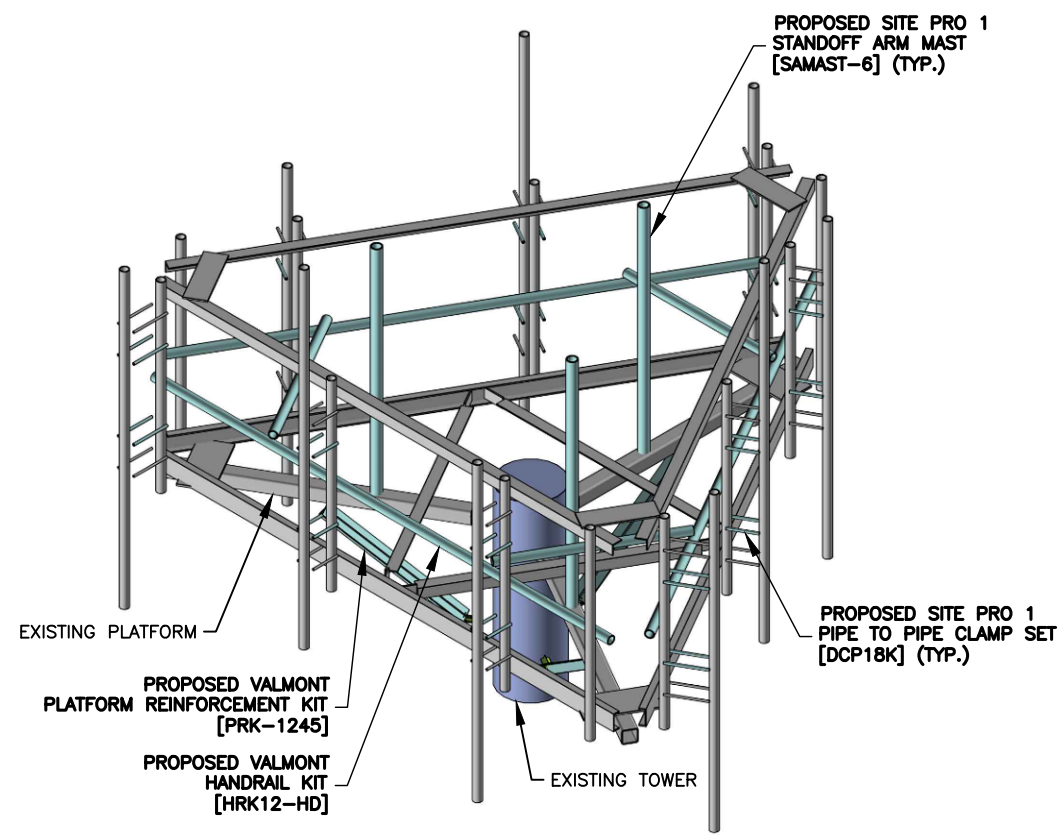
1 TYPICAL MOUNT MODIFICATION - FRONT VIEW
SCALE: N.T.S.



2 TYPICAL MOUNT MODIFICATION - SIDE VIEW
SCALE: N.T.S.



3 TYPICAL MOUNT MODIFICATION - TOP VIEW
SCALE: N.T.S.



4 TYPICAL MOUNT MODIFICATION - ISOMETRIC VIEW
SCALE: N.T.S.



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SEYMOUR, CT 06483-2722



David Chickering
Telamon Tower Engineering PLLC
PE # 35683 Exp. 01/31/2023

04/12/2022

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ATC JOB NO:	13753210_C9_05

SHEET TITLE
MODIFICATION PROFILE

SHEET NUMBER	REVISION
S-101	0

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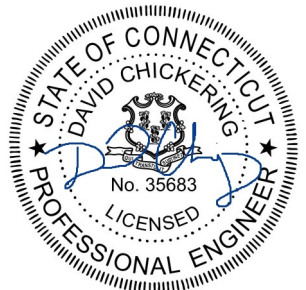
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SHEET TITLE
**MODIFICATION
 REINFORCEMENT MATERIALS
 LIST**

SHEET NUMBER	REVISION
S-102	0

REINFORCEMENT MATERIALS LIST (ALL SECTORS)

QTY REQ'D.	MANUFACTURER	PART #	DESCRIPTION	LENGTH	PART WEIGHT (LB)	WEIGHT (LB)	NOTES
9	SITE PRO 1	DCP18K	PIPE TO PIPE CLAMP SET 1-1/2" TO 5" PIPE 1/2" THICK CLAMP	----	29.1	262	----
1	VALMONT	HRK12-HD	HEAVY DUTY HANDRAIL KIT FOR 12' PLATFORMS WITH 2-3/8" OR 2-7/8" ANTENNA PIPES	----	406.6	407	ANT.51651. DO NOT INSTALL AHCP KIT.
1	VALMONT	PRK-1245	PLATFORM REINFORCEMENT ON A 12" TO 45" POLE 4'-6" ANGLE	----	466.2	466	ANT.16462 . FIELD CUT PROPOSED ANGLES AS REQUIRED.
3	SITE PRO 1	SAMAST-6	6' STANDOFF ARM MAST	----	28.1	84	----
TOTAL WEIGHT:						1219	

MATERIALS LIST NOTE

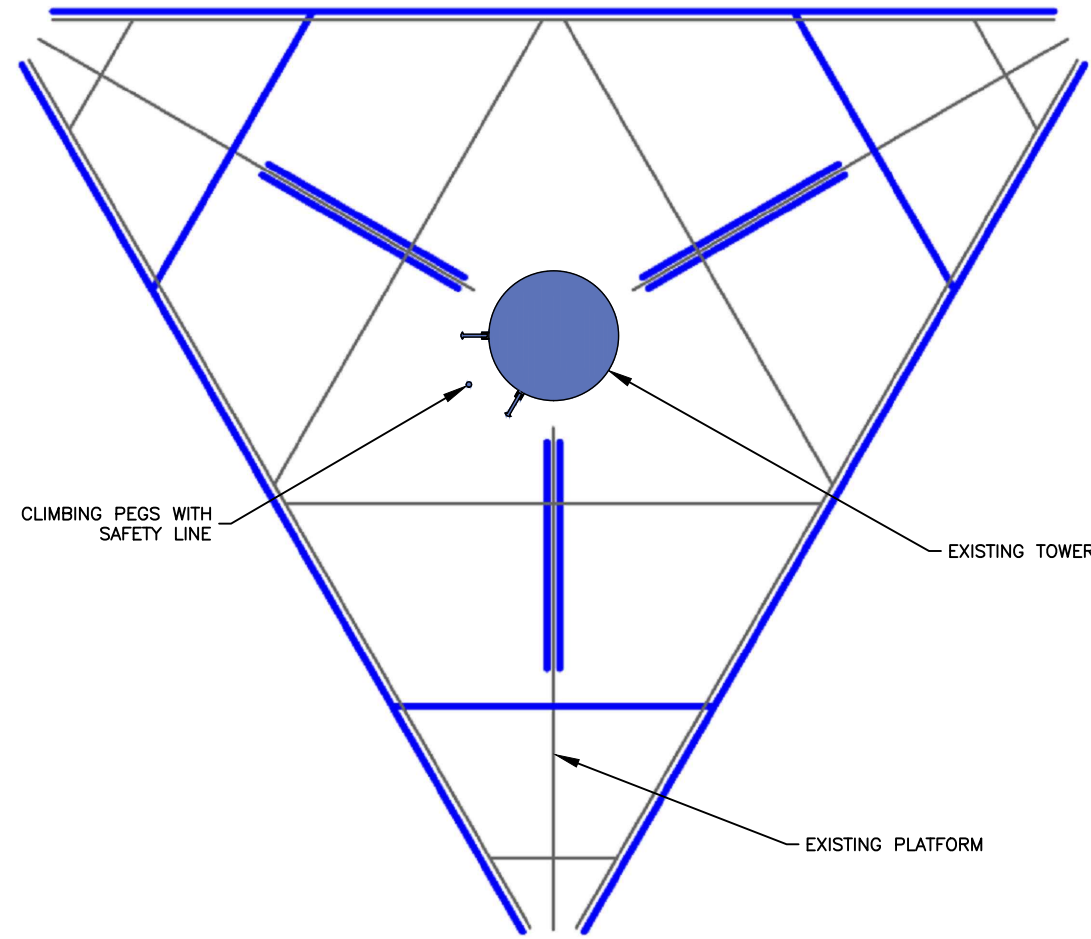
- IN THE EVENT A PROPOSED MODIFICATION PART LISTED IN THE DRAWINGS IS NOT AVAILABLE, AN APPROVED EQUIVALENT CAN BE SUBSTITUTED. FOR APPROVAL OF EQUIVALENT PARTS OR QUESTIONS PLEASE CONTACT AMERICAN TOWER PMI INBOX AT PMI@AMERICANTOWER.COM.
- AT&T CONMAT DOES NOT HAVE PARTS WHICH CONNECT PIPE TO STAND-OFF OVER GRATING AND PIPE TO PIPE THREADED ROD KITS. HENCE PROPOSING MODIFICATION PARTS NOT LISTED IN CONMAT LIST.



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1 SAFETY CLIMB LOCATION
 SCALE: N.T.S.

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 302524
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 BEACON FALLS
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SAFETY CLIMB LAYOUT

SHEET NUMBER

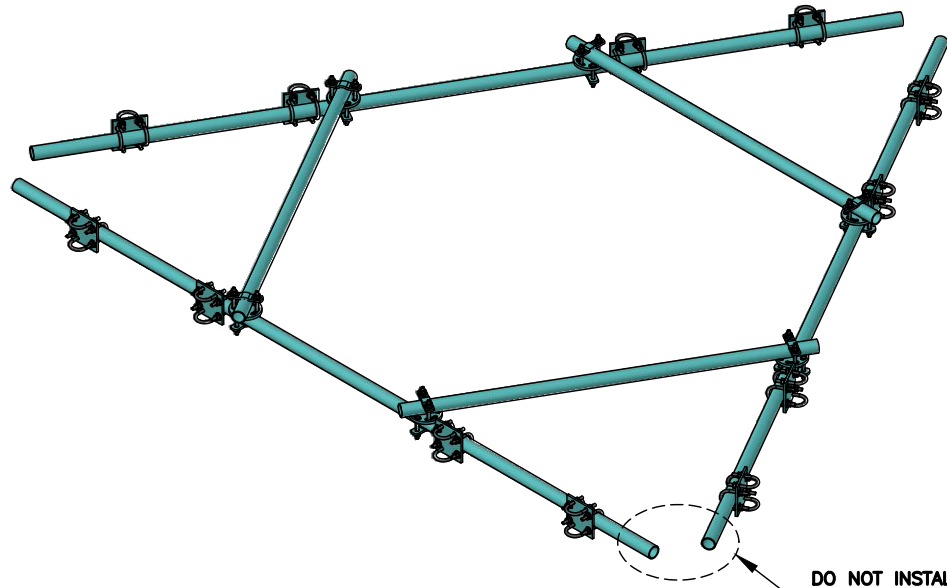
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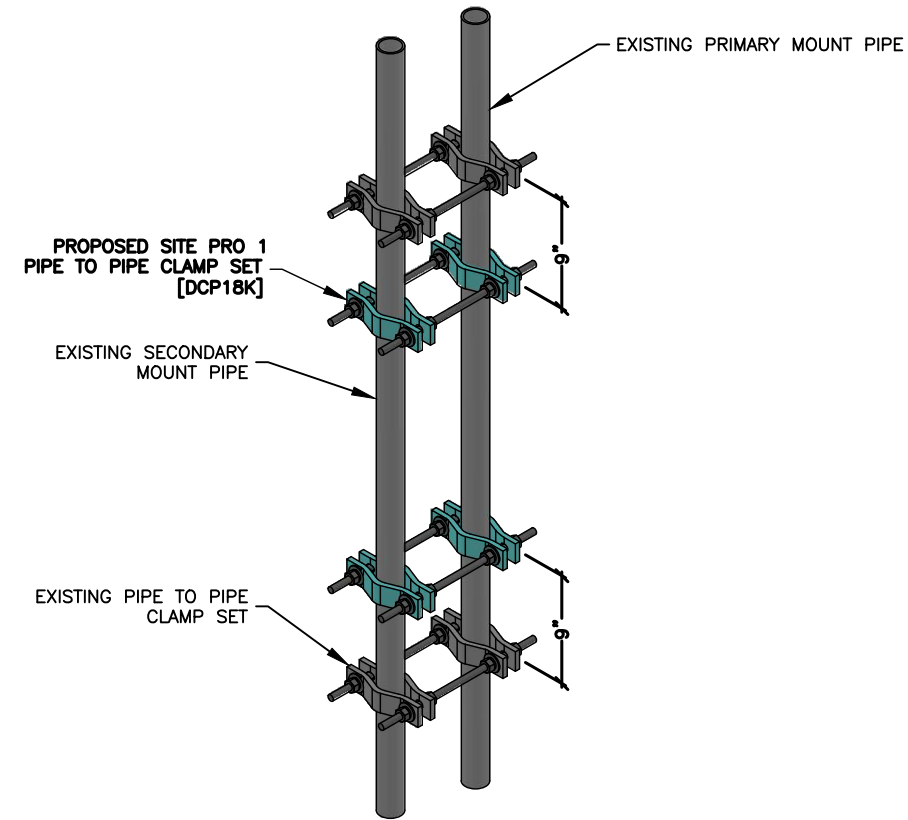
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CONSTRUCTION NOTE

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



1 SITE PRO 1 HANDRAIL KIT [HRK12-HD]
SCALE: N.T.S.



2 SITE PRO 1 PIPE TO PIPE CLAMP SET [DCP18K]
SCALE: N.T.S.



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SHEET TITLE

MODIFICATION DETAILS

SHEET NUMBER

S-501

REVISION

0

MOD SUMMARY

Project & Site Information		
CLS Project ID	41124-13753210_C9_05-02-MOD	
Client Information	Carrier Name	AT&T Mobility
	Client Name	American Tower
	Site #	302524
	Site Name	Beacon Falls
	Application #	13753210_C9_05
Site Location	Address	664 Rimmon Hill Road, Seymour, CT 06483-2722
	County	New Haven
	GPS	41.40719444, -73.0793
	Elevation AMSL (ft)	418.85

Mount & Supporting Structure		
Mount Configuration	Mount Type	Platform w/ Support Rails
Nominal AGL Elevations (ft)	Mount Elevation	163
	Default Antenna Rad	164
Supporting Structure	Structure Type	Monopole
	Height (TOS) (ft)	173

Wind & Ice Loading	
TIA Standard	TIA-222-H
Building Code	-
Basic Wind Speed, V (bare)	118 mph
Basic Wind Speed, V (ice)	50 mph
Design Ice Thickness, t _i	1 in

MOD Summary	Cost Estimation
Install (1) proposed Support Rail Kit at each sector (1 total).	\$ 1,875
Install (1) proposed Support Rail Brace at each sector (3 total).	\$ 1,875
Install (1) proposed Under Platform Kicker Kit at each sector (1 total).	\$ 3,125
Install (1) proposed SAMAST Kit at each sector (3 total).	\$ 1,875
Install (3) proposed Threaded Rod Kits at each sector (9 total).	\$ 5,625
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
Post MOD Usage	\$ 16,375.00
66%	Cost + Mobilization

Replacement Summary	Cost Estimate
(1) Site Pro 1 RMQLP-4120-H10 (ANT.44987) (or equivalent)	\$27,500

SHEET TITLE
SUPPLEMENTAL

SHEET NUMBER R-901	REVISION 0
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C:\USERS\RADHA.MANDHAR\DROPBOX (TELAMON)\ITI LLP SHARE FOLDER\PROJECTS\41124-13753210\02 - MOD\CAD\41124-302524-13753210.DWG - CLS PROJECT ID: 41124-ATC MA-302524-13753210



This report was prepared for American Tower Corporation by
telamon
 Tower Engineering PLLC

Antenna Mount Analysis Report

ATC Site Name : Beacon Falls
ATC Asset Number : 302524
Engineering Number : 13753210_C9_05
Mount Elevation : 163 ft
Carrier : AT&T Mobility
Carrier Site Name : MRCTB056179
Carrier Site Number : MRCTB056179
Site Location : 664 Rimmon Hill Road
 Seymour, CT 06483-2722
 41.40719444, -73.0793
County : New Haven
Date : April 12, 2022
Max Usage : 66%
Result : Pass (Pending MODs)

Prepared By: Gunjan Donode
 Telamon Tower Engineering, PLLC
 Reviewed By: David Chickering, P.E.
 Telamon Tower Engineering, PLLC

Table of Contents

Introduction..... 2
 Supporting Documents..... 2
 Analysis..... 2
 Conclusion..... 2
 Antenna Loading..... 3
 Structure Usages..... 3
 Equipment Layout Plan View..... 4
 Equipment Layout Front Elevation View..... 5
 Standard Conditions..... 6
 Calculations..... Attached

Introduction

The proposed equipment is to be mounted to the existing Platform w/ Support Rails. This proposed mounting configuration was analyzed using RISA-3D, a commercially available finite element analysis software package. A selection of input and output from our analysis is attached to the end of this report.

Supporting Documents

Structural Data	Site Photos, dated February 27, 2019
Previous Analyses	Mount Analysis by Telamon for ATC, Eng. #13753210_C8_04, dated March 10, 2022 Tower SA by CLS for ATC, Eng. #13668747_C3_01, dated May 5, 2021
Loading Data	ATC Application, Project #13753210, dated March 9, 2022 AT&T RFDS, RFDS ID #4818843, Version: 2, dated February 10, 2022

Analysis

Codes	TIA-222-H
Basic Wind Speed	118 mph, V _W (3-Second Gust)
Basic Wind Speed w/ Ice	50 mph (3-Second Gust) w/ 1" Radial Ice (Escalating)
Exposure Category	B
Topographic Factor Procedure:	Method 2
Feature:	Flat
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Risk Category	II
Maintenance Live Load	L _u : 500 lb
Spectral Response	S ₁ : 0.20; S ₂ : 0.05; Site Class: D

Conclusion

Based on the analysis, the antenna mount meets the requirements per the applicable codes listed above. The mounting configuration considered in this analysis will be capable of supporting the referenced loading pursuant to referenced standards once the referenced modifications are installed.

This analysis incorporates modifications per Telamon Tower Engineering, PLLC, dated April 12, 2022.

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



319 CHAPANOKE RD, SUITE 118
 RALEIGH, NC 27603
 PH: (405)348-5460 FAX: (405)341-4625
 TELAMON TOWER ENGINEERING PLLC PROJECT ID:
 41124-ATC-MA-302524-13753210

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REV.	DESCRIPTION	DRAWN BY	DATE
A	PRELIMINARY	RM	04/11/2022
0	FOR CONSTRUCTION	RM	04/12/2022

ATC SITE NUMBER:
 302524
 ATC SITE NAME:
 BEACON FALLS
 CONNECTICUT
 SITE ADDRESS:
 664 RIMMON HILL ROAD
 SEYMOUR, CT 06483-2722



David Chickering
 Telamon Tower Engineering PLLC
 PE # 35683 Exp. 01/31/2023

04/12/2022

DRAWN BY:	RM
APPROVED BY:	DC
DATE DRAWN:	04/12/2022
ATC JOB NO:	13753210_C9_05

SHEET TITLE
 SUPPLEMENTAL

SHEET NUMBER
R-902
 REVISION
0

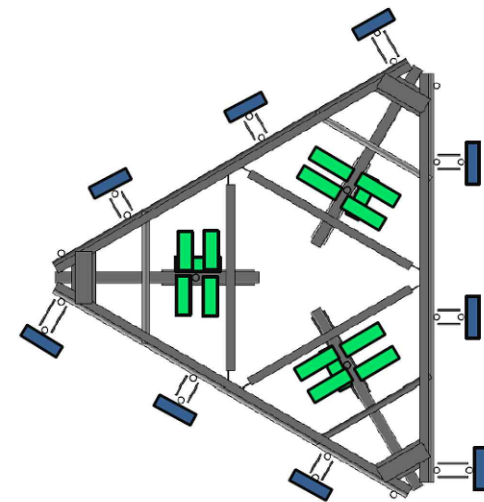
Antenna Loading

Elevation (ft)	Mount	Rad.	#	Antennas Name
166.0			3	Ericsson AIR 6449 B77D
			2	CCI DMP65R-BU8D
163.0	164.0		2	CCI TPA65R-BU8D
			1	CCI DMP65R-BU6DA
			1	CCI TPA-65R-BU6DA-K
			1	Raycap DC9-48-60-24-8C-EV
			3	Ericsson AIR 6419 B77G
			3	Ericsson RRUS 32 B2
			3	Ericsson RRUS 32 B30
			3	Ericsson RRUS 4449 B5, B12
			3	Ericsson RRUS 4478 B14
			3	Ericsson RRUS 4426 B66
		2	Raycap DC6-48-60-18-8F	

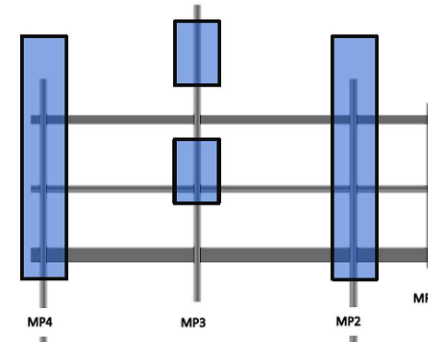
Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Mount Pipes	66%	Pass
Threaded Rods	61%	Pass
Reinforcement Members	53%	Pass
Support Rail	52%	Pass
Tower to Mount Connection	47%	Pass
Stand-Off Horizontals	41%	Pass
Platform Base	36%	Pass

Equipment Layout Plan View



Equipment Layout Front Elevation View (Alpha)



Total #	Equipment	Mount Pipe Position
3	Ericsson AIR 6449 B77D	P3
3	Ericsson AIR 6419 B77G	P3
2	Cci Antennas DMP65R-BU8D	P4 (Alpha & Beta)
1	Cci Antennas DMP65R-BU6DA	P4 (Gamma)
2	Cci Antennas TPA65R-BU8D	P2 (Alpha & Beta)
1	Cci Antennas TPA-65R-BU6DA-K	P2 (Gamma)
1	Raycap DC9-48-60-24-8C-EV	Stand-off
2	Raycap DC6-48-60-18-8F	Stand-off
3	Ericsson RRUS 4426 B66	Stand-off
3	Ericsson RRUS 32 B30	Stand-off
3	Ericsson RRUS 4478 B14	Stand-off
3	Ericsson RRUS 4449 B5, B12	Stand-off
3	Ericsson RRUS 32 B2	Stand-off

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ATC SITE NUMBER:

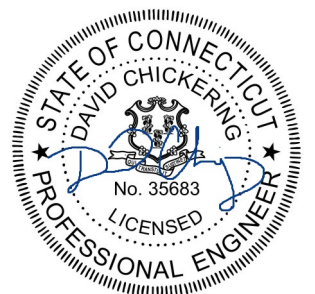
302524

ATC SITE NAME:

BEACON FALLS
CONNECTICUT

SITE ADDRESS:

664 RIMMON HILL ROAD
SEYMOUR, CT 06483-2722



David Chickering
Telamon Tower Engineering PLLC
PE # 35683 Exp. 01/31/2023

04/12/2022

DRAWN BY:	RM
APPROVED BY:	DC
DATE DRAWN:	04/12/2022
ATC JOB NO:	13753210_C9_05

SHEET TITLE

SUPPLEMENTAL

SHEET NUMBER

R-903

REVISION

0

Mount Analysis for American Tower April 12, 2022
302524 - Beacon Falls Telamon Tower Engineering, PLLC Project #41124-13753210_C9_05-02-MOD

Standard Conditions

This analysis is inclusive of the antenna supporting frames/mounts and all recorded connections that will support the equipment listed in this report. It considers only the theoretical capacity of structural components and it is not a condition assessment. The validity of the analysis may be dependent on the accuracy of structural information supplied by others. The client is responsible for verifying this information. If any provided information is revised after completion of this analysis, Telamon Tower Engineering, PLLC should be notified immediately to revise results.

This analysis assumes the following:

- The tower or other superstructure and mounts (if existing) were properly constructed as per the original design and have been properly maintained in accordance with applicable code standards.
- Member sizes and strengths are accurate as supplied or are assumed as stated in the calculations.
- In the absence of sufficient design information, all welds and connections are assumed to develop at least the capacity of the connected member, unless otherwise stated in this analysis.
- All prior structural modifications, if any, are assumed to be correctly installed and fully effective.
- The loading configuration is complete and accurate as supplied and/or as modeled in the previous analysis. All appurtenances are assumed to be properly installed and supported as per manufacturer requirements.
- Some conservative assumptions may be used regarding appurtenances and their projected areas based on careful interpretation of data supplied, previous experience and standard industry practice.
- Installation of all equipment and steel should be confirmed not to cause tower conflicts nor impede the tower climbing pegs.

All opinions and conclusions are considered accurate to a reasonable degree of engineering certainty based upon the evidence available at the time of the report. All opinions and conclusions contained herein are subject to revision based upon receipt of new or updated information. All services are provided exercising a level of care and diligence equivalent to the standard of our profession. No warranty or guarantee, either expressed or implied, is offered. All services are confidential in nature and this report will not be released to any other party without the client's consent. The use of this analysis is limited to the expressed purpose for which it was commissioned and it may not be reused, copied or disseminated for any other purpose without consent from Telamon Tower Engineering, PLLC.

All services were performed, results obtained and recommendations made in accordance with generally accepted engineering principles and practices. Telamon Tower Engineering, PLLC is not responsible for the conclusions, opinions or recommendations made by others based on the information supplied in this analysis.

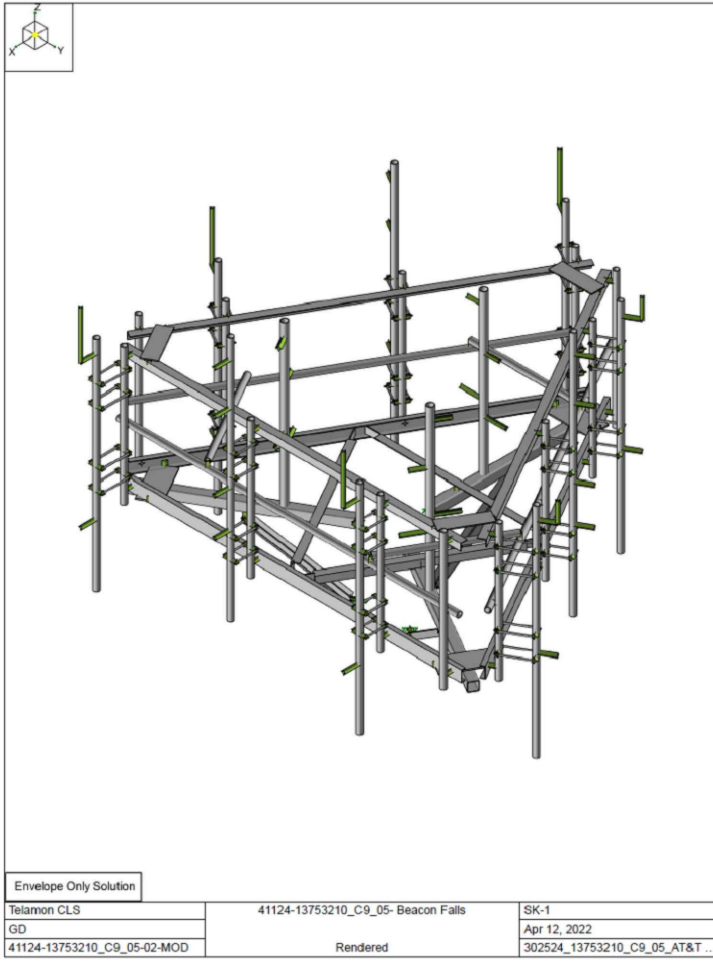
It is not possible to have the fully detailed information necessary to perform a complete and thorough analysis of every structural sub-component of an existing structure. The structural analysis by Telamon Tower Engineering, PLLC verifies the adequacy of the primary members of the structure. Telamon Tower Engineering, PLLC provides a limited scope of service in that we cannot verify the adequacy of every weld, bolt, gusset, etc.

Wind & Ice Loading			
Nominal Mount Elevation (AGL), Z_{mount}	163 ft	K_a	0.90
Nominal Rad Elevation (AGL), Z_{rad}	164 ft	K_d	0.95
Elevation AMSL (ft)	419 ft	K_e	0.98
TIA Standard	H	K_z	1.14
Basic Wind Speed, V_{ult} (bare)	118 mph	K_{zt}	1.00
Basic Wind Speed, V (ice)	50 mph	K_s	1.00
Design Ice Thickness, t_i	1 in	t_{ic}	1.17 in
Exposure Category	B	G_b	1.00
Risk Category	II	q_z (bare)	37.9 psf
Seismic Response Coeff., C_s	0.11	q_z (ice)	6.8 psf

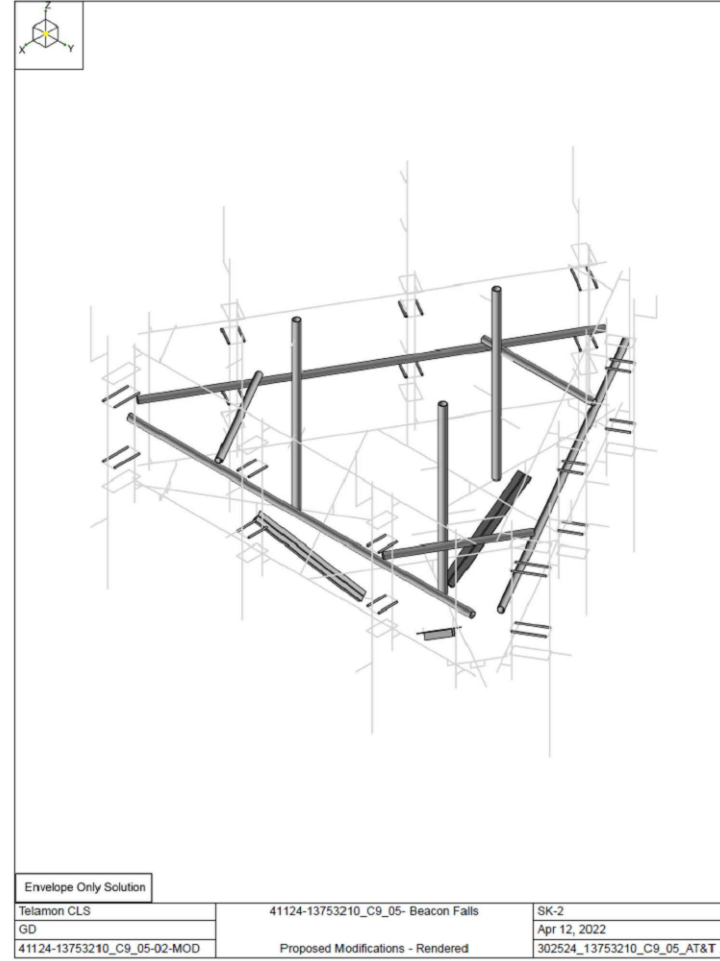
Live Loading	
At Mount Pipes, L_w	500 lb
Joint Labels Considered	1_M1
	1_M2
	1_M3
	1_M4

Member Distributed Loading				
Section Set Label	Shape Label	F_x (lb/ft)		Ice Wt (lb/ft)
		Bare	Ice	
Offset Arm	HSS4X4X4	22.74	1.74	8.98
Bottom Corner Plate	PL9X0.5	51.16	6.96	10.35
Face Horizontal	CSX6.7	28.42	1.82	9.03
Internal Horiz Plate	PL3X0.375	17.05	3.29	4.76
Internal Horiz	L3X3X4	17.05	1.67	7.04
Handrail	L3X3X4	17.05	1.67	7.04
Top Corner Plate	0.38 X 6 PLATE	34.11	5.12	7.50
MOD SAMAST6	PIPE_2.5	9.81	3.20	5.80
MOUNT_PIPE_2.0	PIPE_2.0	8.10	2.89	5.09
Threaded Rods	1/2 SR	1.71	1.74	2.40
MOD Threaded Rods	5/8 SR	2.13	1.82	2.58
MOD PRK	L2.5X2.5X3	14.21	1.63	6.13
MOD Support Rail	PIPE_2.0	8.10	2.89	5.09
MOD SR Bracing	PIPE_2.0	8.10	2.89	5.09

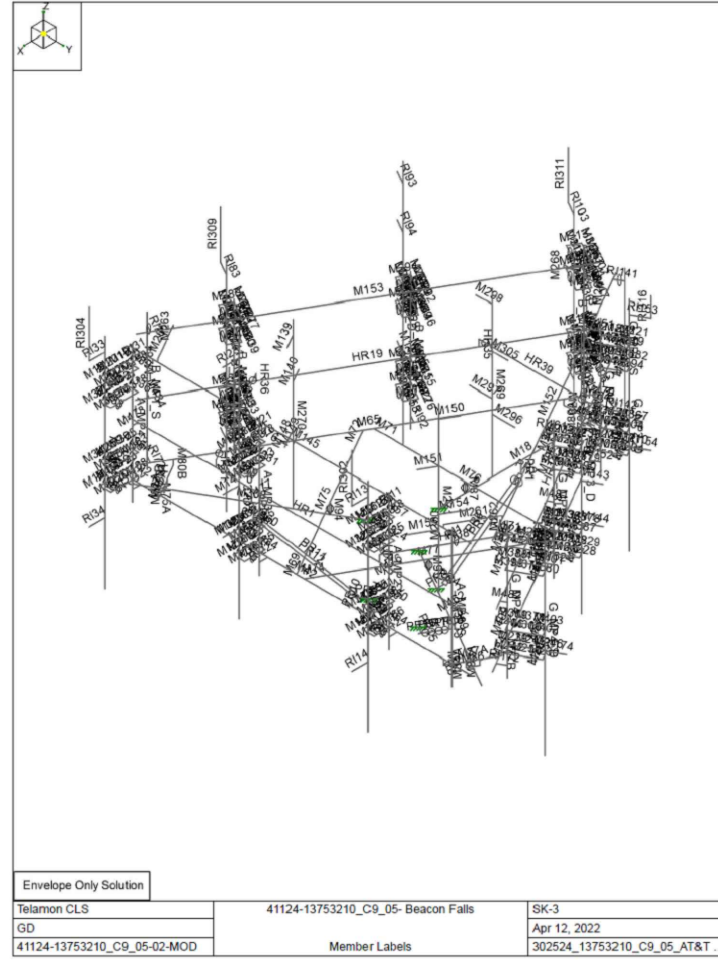
Appurtenances																															
Appurtenance Model	Status	Azimuth Offset (*, U)	Rad Elev. Override (ft)	Swap Width & Depth	Area Factor		Qty. per Azimuth			Total Qty. Override	23° Joints		142° Joints		264° Joints		Height (in)	Width (in)	Depth (in)	Weight (Bare) (lb)	Shape	Weight of Ice (lb)	EPA _A (Bare) (ft²)		EPA _A (Ice) (ft²)		F _A (Bare) (lb)		F _A (Ice) (lb)		
					Front	Side	23°	142°	264°		1	2	1	2	1	2							N	T	N	T	N	T	N	T	
AIR 6449 B77D			166					1	1	1	3	1_A3T	1_A3B	2_A3T	2_A3B	3_A3T	3_A3B	30.4	15.9	10.6	81.6	Flat	78.62	4.03	2.72	4.98	3.54	138.11	93.33	30.66	21.78
AIR 6419 B77G								1	1	1	3	1_A3T1	1_A3B1	2_A3T1	2_A3B1	3_A3T1	3_A3B1	28.3	16.1	7.9	66.1	Flat	71.12	3.80	1.94	4.71	2.66	129.74	66.21	28.90	16.35
DMP65R-BU8D								1	1	1	2	1_A4T	1_A4B	2_A4T	2_A4B			96	20.7	7.7	105.6	Generic	229.10	15.86	5.95	18.07	7.90	541.91	203.30	110.84	48.46
DMP65R-BU6DA								1	1	1	1					3_A4T	3_A4B	71.2	20.7	7.7	79.4	Flat	184.19	12.71	5.62	14.49	7.24	434.26	191.87	88.88	44.41
TPA65R-BU8D								1	1	1	2	1_A2T	1_A2B	2_A2T	2_A2B			96	21	7.8	87.5	Generic	232.41	15.91	5.97	18.12	7.94	543.62	203.99	111.14	48.72
TPA-65R-BU6DA-K										1	1					3_A2T	3_A2B	71.1	25.5	7.6	79.6	Flat	212.84	15.27	5.55	17.13	7.17	521.76	189.57	105.10	43.98
DO9-48-60-24-80-EV										1	1							31.41	10.24	18.28	26.2	Flat	87.04	2.74	4.78	3.56	5.80	93.51	163.49	21.87	35.60
DO6-48-60-18-8F										1	1	2			D2	D3		23.5	9.7	9.7	20	Round	39.21	1.11	1.11	1.51	1.51	37.86	37.86	9.29	9.29
RRIS 4426 B66						0.5		1	1	1	3	R1		R2		R3		14.96	13.19	5.8	48.4	Flat	30.10	0.73	0.82	1.18	1.12	24.78	28.09	7.21	6.87
RRIS 32 B30						0.5		1	1	1	3	R1		R2		R3		26.7	12.1	6.7	60	Flat	47.90	1.57	1.35	2.25	1.75	53.74	46.00	13.79	10.73
RRIS 4478 B14						0.5		1	1	1	3	R4		R5		R6		16.5	13.4	7.7	59.9	Flat	37.28	1.06	0.92	1.58	1.24	36.18	31.48	9.68	7.59
RRIS 4449 B5, B12						0.5		1	1	1	3	R4		R5		R6		17.9	13.19	9.44	71	Flat	47.95	1.41	0.98	1.99	1.31	48.11	33.61	12.20	8.04
RRIS 32 B2								1	1	1	3	R7		R8		R9		27.2	12.05	7	52.9	Flat	49.44	2.73	1.67	3.55	2.36	93.33	67.00	21.75	14.47



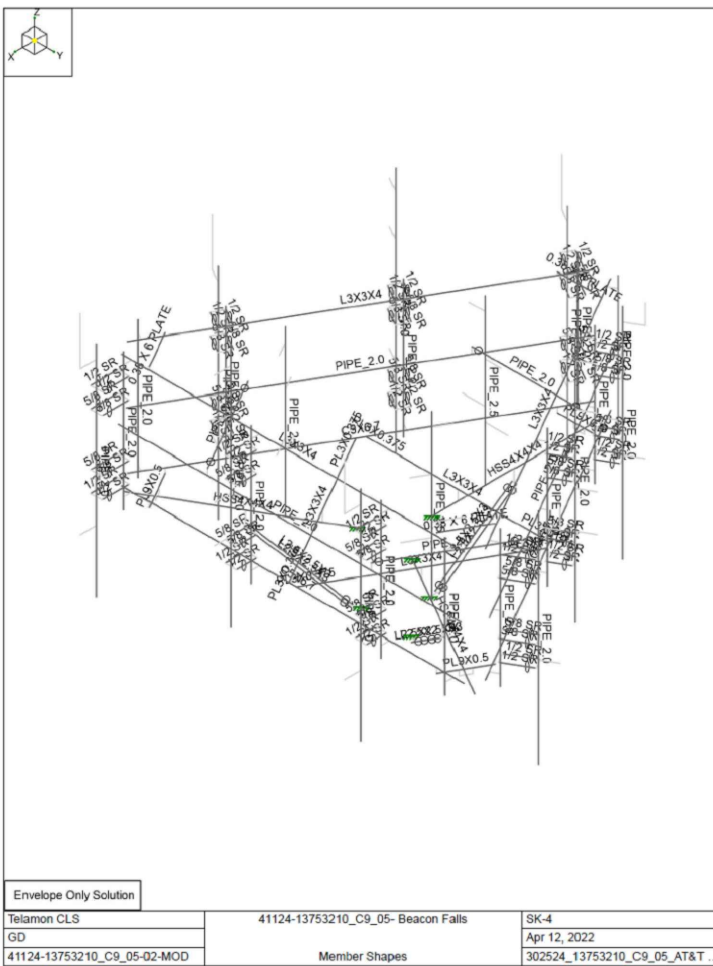
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GD		Apr 12, 2022
41124-13753210_C9_05-02-MOD	Rendered	302524_13753210_C9_05_AT&T...



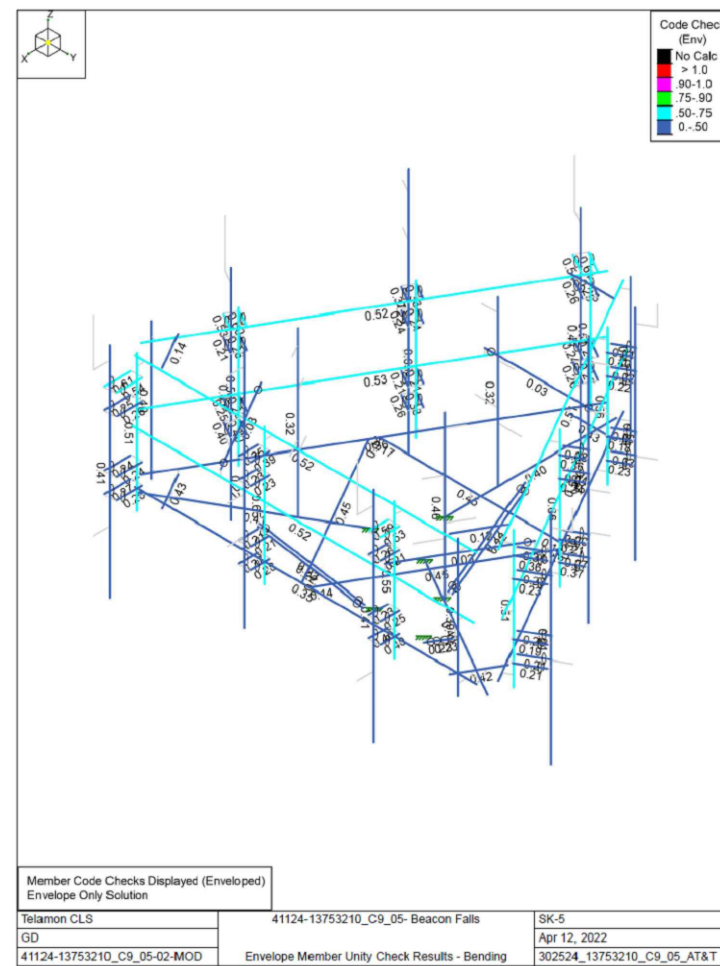
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GD		Apr 12, 2022
41124-13753210_C9_05-02-MOD	Proposed Modifications - Rendered	302524_13753210_C9_05_AT&T...



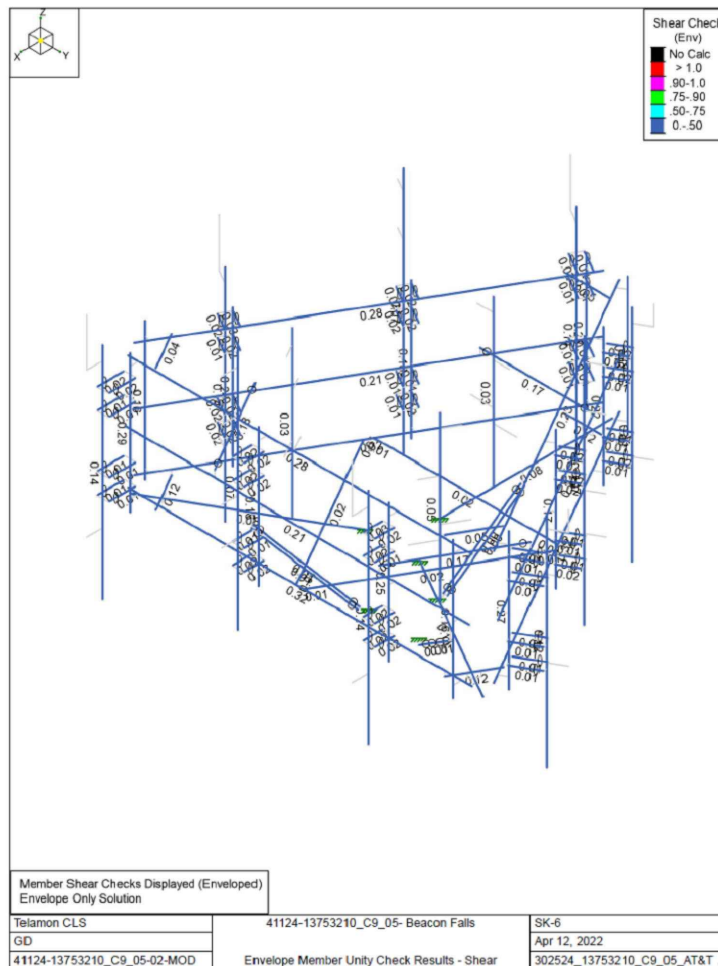
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GD		Apr 12, 2022
41124-13753210_C9_05-02-MOD	Member Labels	302524_13753210_C9_05_AT&T...



Envelope Only Solution		
Telamon CLS	41124-13753210_C9_05- Beacon Falls	SK-4
GD		Apr 12, 2022
41124-13753210_C9_05-02-MOD	Member Shapes	302524_13753210_C9_05_AT&T...



Member Code Checks Displayed (Enveloped) Envelope Only Solution		
Telamon CLS	41124-13753210_C9_05- Beacon Falls	SK-5
GD		Apr 12, 2022
41124-13753210_C9_05-02-MOD	Envelope Member Unity Check Results - Bending	302524_13753210_C9_05_AT&T...



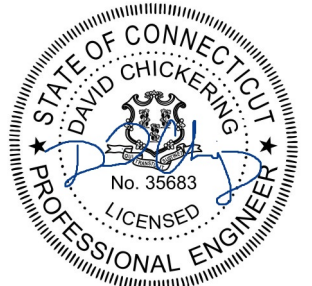
Member Shear Checks Displayed (Enveloped) Envelope Only Solution		
Telamon CLS	41124-13753210_C9_05- Beacon Falls	SK-6
GD		Apr 12, 2022
41124-13753210_C9_05-02-MOD	Envelope Member Unity Check Results - Shear	302524_13753210_C9_05_AT&T...

telamon
Tower Engineering PLLC
319 CHAPANOKE RD, SUITE 118
RALEIGH, NC 27603
PH: (405)348-5460 FAX: (405)341-4625
TELAMON TOWER ENGINEERING PLLC PROJECT ID:
41124-ATC MA-302524-13753210

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SITE ADDRESS:
664 RIMMON HILL ROAD
SEYMOUR, CT 06483-2722



David Chickering
Telamon Tower Engineering PLLC
PE # 35683 Exp. 01/31/2023

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DATE DRAWN:	04/12/2022
ATC JOB NO:	13753210_C9_05

SHEET TITLE
SUPPLEMENTAL

SHEET NUMBER R-904	REVISION 0
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C:\USERS\RADHA.MANDHAR\DROPBOX (TELAMON)\ITI.LLP.SHARE.FOLDER\PROJECTS\41124\302524-13753210\02 - MOD\CAD\41124-302524-13753210.DWG - CLS PROJECT ID: 41124-ATC MA-302524-13753210

Basic Load Cases					
	BLC Description	Category	Z Gravity	Nodal	Distributed Area(Member)
1	Dead	DL	-1	42	6
2	Ice Dead	RI		42	132
3	BLC 1 Transient Area Loads	None		60	
4	BLC 2 Transient Area Loads	None		60	
5	Structure Wind 0°	None		107	
6	Structure Wind 30°	None		246	
7	Structure Wind 45°	None		264	
8	Structure Wind 60°	None		214	
9	Structure Wind 90°	None		123	
10	Structure Wind 120°	None		214	
11	Structure Wind 135°	None		264	
12	Structure Wind 150°	None		246	
13	Structure Wind 180°	None		107	
14	Structure Wind 210°	None		246	
15	Structure Wind 225°	None		264	
16	Structure Wind 240°	None		214	
17	Structure Wind 270°	None		123	
18	Structure Wind 300°	None		214	
19	Structure Wind 315°	None		264	
20	Structure Wind 330°	None		246	
21	Structure Wind w/ Ice 0°	None		107	
22	Structure Wind w/ Ice 30°	None		246	
23	Structure Wind w/ Ice 45°	None		264	
24	Structure Wind w/ Ice 60°	None		214	
25	Structure Wind w/ Ice 90°	None		123	
26	Structure Wind w/ Ice 120°	None		214	
27	Structure Wind w/ Ice 135°	None		264	
28	Structure Wind w/ Ice 150°	None		246	
29	Structure Wind w/ Ice 180°	None		107	
30	Structure Wind w/ Ice 210°	None		246	
31	Structure Wind w/ Ice 225°	None		264	
32	Structure Wind w/ Ice 240°	None		214	
33	Structure Wind w/ Ice 270°	None		123	
34	Structure Wind w/ Ice 300°	None		214	
35	Structure Wind w/ Ice 315°	None		264	
36	Structure Wind w/ Ice 330°	None		246	
37	Antenna Wind 0°	None		42	
38	Antenna Wind 30°	None		84	
39	Antenna Wind 45°	None		84	
40	Antenna Wind 60°	None		84	
41	Antenna Wind 90°	None		42	
42	Antenna Wind 120°	None		84	
43	Antenna Wind 135°	None		84	
44	Antenna Wind 150°	None		84	
45	Antenna Wind 180°	None		42	
46	Antenna Wind 210°	None		84	
47	Antenna Wind 225°	None		84	
48	Antenna Wind 240°	None		84	
49	Antenna Wind 270°	None		42	
50	Antenna Wind 300°	None		84	
51	Antenna Wind 315°	None		84	
52	Antenna Wind 330°	None		84	
53	Antenna Wind w/ Ice 0°	None		42	
54	Antenna Wind w/ Ice 30°	None		84	
55	Antenna Wind w/ Ice 45°	None		84	

Basic Load Cases (Continued)					
	BLC Description	Category	Z Gravity	Nodal	Distributed Area(Member)
56	Antenna Wind w/ Ice 60°	None		84	
57	Antenna Wind w/ Ice 90°	None		42	
58	Antenna Wind w/ Ice 120°	None		84	
59	Antenna Wind w/ Ice 135°	None		84	
60	Antenna Wind w/ Ice 150°	None		84	
61	Antenna Wind w/ Ice 180°	None		42	
62	Antenna Wind w/ Ice 210°	None		84	
63	Antenna Wind w/ Ice 225°	None		84	
64	Antenna Wind w/ Ice 240°	None		84	
65	Antenna Wind w/ Ice 270°	None		42	
66	Antenna Wind w/ Ice 300°	None		84	
67	Antenna Wind w/ Ice 315°	None		84	
68	Antenna Wind w/ Ice 330°	None		84	
69	Seismic X	ELX		42	132
70	Seismic Y	ELY		42	132
71	Seismic Z	ELZ		42	132
72	Maintenance Live 500 (1)	OL1		1	
73	Maintenance Live 500 (2)	OL2		1	
74	Maintenance Live 500 (3)	OL3		1	
75	Maintenance Live 500 (4)	OL4		1	

TOWER-MOUNT CONNECTION ANALYSIS

SITE INFORMATION	
Site ID	302524
Site Name	Beacon Falls
Project ID	41124-13753210_C9_05-02-MOD

ANALYSIS PARAMETERS	
Case Definition	1

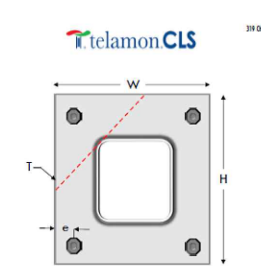
APPLIED FORCES FROM B3D	
Member Label	A500
Member End Label	1
Force-X	Px, lbs 2780.7
Force-Y	Px, lbs 156.7
Force-Z	Pz, lbs -958.3
Moment 2-X	Mx, lbs-ft -425.1
Moment 1-Y	My, lbs-ft 2541.0
Moment 2-Z	Mz, lbs-ft 76.5

STANDOFF MEMBER PROPERTIES	
Standoff Member Type	Square Bolt NDS
Standoff Member Grade	H024841/4
Standoff Member Grade	A500-46 Gr-B Bolt
Member to Plate Weld Size, in	3/16

BOLT & PLATE PROPERTIES	
Bolt Geometry	4
Bolt Edge Distance (e), in	1.00
Horizontal Bolt Diameter (D), in	0.625
Bolt Grade	A325
Plate Height (H), in	6.00
Plate Width (W), in	6.00
Plate Thickness (T), in	0.50
Plate Grade	A36

BOLT ANALYSIS	
Shear Demand (V), k	0.35
Shear Capacity (φV), k	13.81
Tension Demand (T), k	3.76
Tension Capacity (φT), k	20.34
Shear Utilization	2.5%
Tension Utilization	18.5%
Interaction Utilization	2.5%

PLATE ANALYSIS	
Moment Demand (M), k-in	2.55
Flexural Capacity (φM), k-in	11.46
Plate Utilization	46.7%



MATERIAL PROPERTIES	
Standoff Member - Yield Strength (Fy), ksi	46
Standoff Member - Ultimate Strength (Fu), ksi	58
Bolt - Yield Strength (Fy), ksi	92
Bolt - Tensile Strength (Fu), ksi	110
Plate - Yield Strength (Fy), ksi	36
Plate - Ultimate Strength (Fu), ksi	58

telamon
 Tower Engineering PLLC
 319 CHAPANOKE RD, SUITE 118
 RALEIGH, NC 27603
 PH: (405)348-5460 FAX: (405)341-4625
 TELAMON TOWER ENGINEERING PLLC PROJECT ID:
 41124-ATC MA-302524-13753210

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REV.	DESCRIPTION	DRAWN BY	DATE
A	PRELIMINARY	RM	04/11/2022
0	FOR CONSTRUCTION	RM	04/12/2022

ATC SITE NUMBER:
 302524
 ATC SITE NAME:
 BEACON FALLS
 CONNECTICUT
 SITE ADDRESS:
 664 RIMMON HILL ROAD
 SEYMOUR, CT 06483-2722



David Chickering
 Telamon Tower Engineering PLLC
 PE # 35683 Exp. 01/31/2023

04/12/2022

DRAWN BY:	RM
APPROVED BY:	DC
DATE DRAWN:	04/12/2022
ATC JOB NO:	13753210_C9_05

SHEET TITLE
 SUPPLEMENTAL

SHEET NUMBER	REVISION
R-905	0

C:\USERS\RADHA.MANDHAR\DROPBOX (TELAMON)\ITI LLP SHARE FOLDER\PROJECTS\41124\302524-13753210\02 - MOD\CAD\41124-302524-13753210.DWG - CLS PROJECT ID: 41124-ATC MA-302524-13753210



This report was prepared for American Tower Corporation by



Antenna Mount Analysis Report

ATC Site Name : Beacon Falls
ATC Asset Number : 302524
Engineering Number : 13753210_C9_05
Mount Elevation : 163 ft
Carrier : AT&T Mobility
Carrier Site Name : MRCTB056179
Carrier Site Number : MRCTB056179
Site Location : 664 Rimmon Hill Road
 Seymour, CT 06483-2722
 41.40719444, -73.0793
County : New Haven
Date : April 12, 2022
Max Usage : 66%
Result : Pass (Pending MODs)

Prepared By:
 Gunjan Donode
 Telamon Tower Engineering, PLLC

Reviewed By:
 David Chickering, P.E.
 Telamon Tower Engineering, PLLC

Mount Analysis for American Tower
 302524 - Beacon Falls

April 12, 2022
 Telamon Tower Engineering, PLLC Project #41124-13753210_C9_05-02-MOD

Introduction

The proposed equipment is to be mounted to the existing Platform w/ Support Rails. This proposed mounting configuration was analyzed using RISA-3D, a commercially available finite element analysis software package. A selection of input and output from our analysis is attached to the end of this report.

Supporting Documents

Structural Data	Site Photos, dated February 27, 2019
Previous Analyses	Mount Analysis by Telamon for ATC, Eng. #13753210_CB_04, dated March 10, 2022 Tower SA by CLS for ATC, Eng. #13668747_C3_01, dated May 5, 2021
Loading Data	ATC Application, Project #13753210, dated March 9, 2022 AT&T RFDS, RFDS ID #4818843, Version: 2, dated February 10, 2022

Analysis

Codes	TIA-222-H
Basic Wind Speed	118 mph, V_{sk} (3-Second Gust)
Basic Wind Speed w/ Ice	50 mph (3-Second Gust) w/ 1" Radial Ice (Escalating)
Exposure Category	B
Topographic Factor Procedure:	Method 2
Feature:	Flat
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Risk Category	II
Maintenance Live Load	L_{m} : 500 lb
Spectral Response	S_1 : 0.20; S_2 : 0.05; Site Class: D

Conclusion

Based on the analysis, the antenna mount meets the requirements per the applicable codes listed above. The mounting configuration considered in this analysis will be capable of supporting the referenced loading pursuant to referenced standards once the referenced modifications are installed.

This analysis incorporates modifications per Telamon Tower Engineering, PLLC, dated April 12, 2022.

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

SUPPLEMENTAL

SHEET NUMBER:
R-606

REVISION:
1