

October 25, 2023

Building Department
Town Hall Annex
5 Linsley Street, 2nd floor Room 205
North Haven, CT 06473

Construction Closeout Letter

ATC Site Name: Northhaven I
ATC Asset#: 370629
AT&T Site#: CTLO2209
Site Address: 125 Washington Ave.
North Haven, CT 06473

To Whom It May Concern:

In accordance with the requirements of the 2018 Connecticut State Building Code, Dewberry Engineers Inc. (Dewberry) reviewed the completed installation at the above location based on Rev-1 Construction Drawings dated 07/29/22. Additionally, a tower structural analysis report dated 11/09/21 was completed by Tower Engineering Professionals, Inc. and a mount analysis report dated 06/13/22 was completed by Telamon Tower Engineering, PLLC.

Please see the attached reports and documentation for the completed site.

- October 25, 2023 – Contractor Report by Dewberry
- July 29, 2022 – Rev1 Construction Drawings by Dewberry

Based on visual observations, it appears that the project is constructed in general conformance with the applicable plans and specifications. If you have any questions, please do not hesitate to contact Dewberry Engineers Inc.

Sincerely,
Dewberry Engineers Inc.



Benjamin Revette, P.E
Associate Vice President

Statement of Special Inspections

Contractor Report #1

Attn: Mr. Blake Paynter
Project Manager
American Tower Corporation
10 Presidential Way
Woburn, MA 01801

ATC Site Name:	Northaven I
ATC Site#/Project#:	370629 / 13682689
AT&T Site#:	CTL02209
Site Address:	125 Washington Ave. North Haven, CT 06473
Contractor:	Ericsson

Dewberry Engineers Inc. (Dewberry) has reviewed the photos provided by the general contractor of the recently completed site improvements at the aforementioned location. The site review was performed based on Rev-1 Construction Drawings dated 07/29/22. Additionally, a tower structural analysis report dated 11/09/21 was completed by Tower Engineering Professionals, Inc. and a mount analysis report dated 06/13/22 was completed by Telamon Tower Engineering, PLLC.

The following are on-site photos provided to Dewberry by the contractor:

Figure 1: View of installed alpha sector antennas and RRUs on existing mount platform

Figure 2: View of installed beta sector antennas and RRUs on existing mount platform

Figure 3: View of installed gamma sector antennas and RRUs on existing mount platform

All notes and items in this field report are a record of observations provided by the photos. Please notify Dewberry Engineers Inc. in writing of any discrepancies, errors or misinterpretations. Please find attached to this report, the figures and photos of construction and items observed.

Prepared By: _____



Joseph Mazzeo
Engineer

Contractor Photos:



Figure 1: View of installed alpha sector antennas and RRUs on existing mount platform



Figure 2: View of installed beta sector antennas and RRUs on existing mount platform

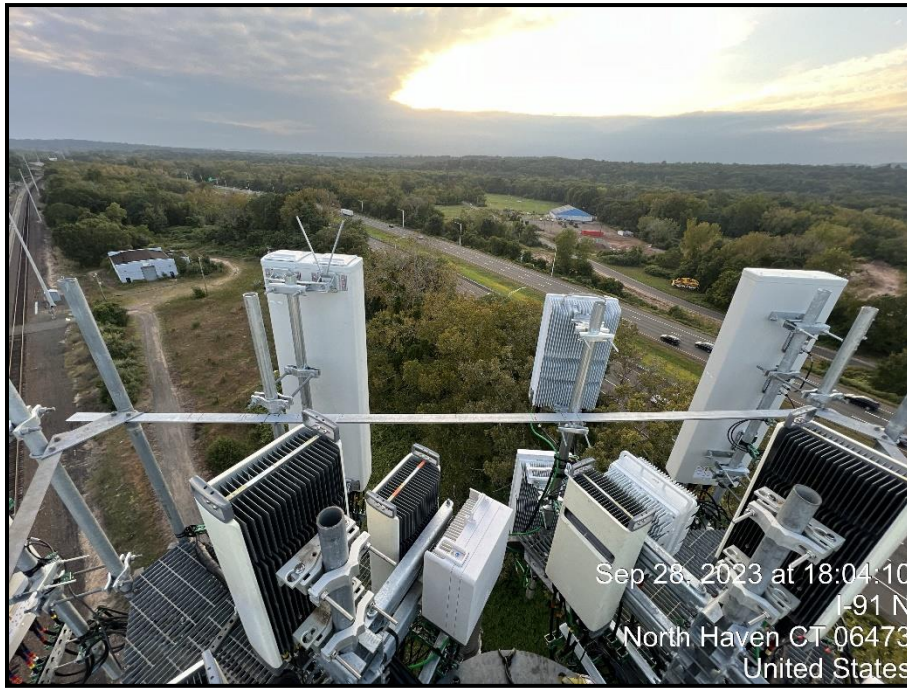
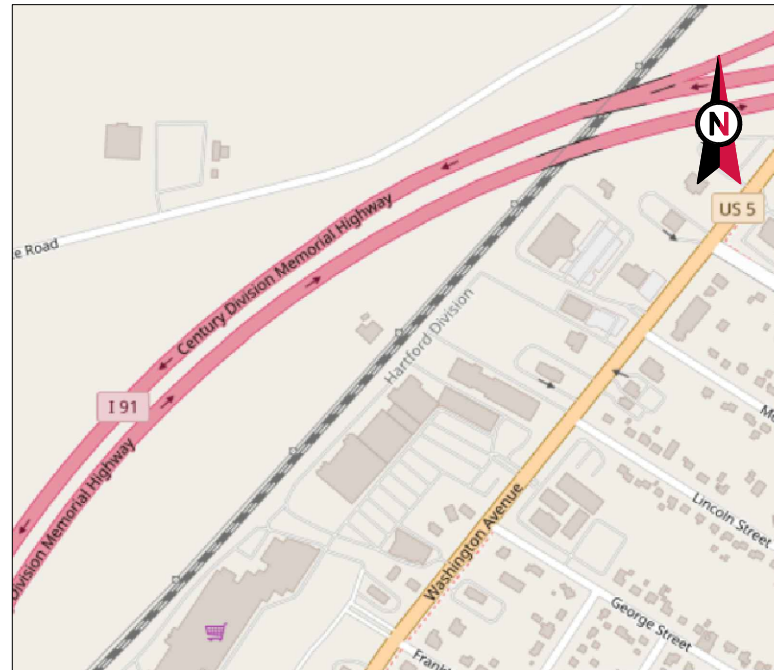


Figure 3: View of installed gamma sector antennas and RRUs on existing mount platform



VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: NORTHHAVEN I
 ATC SITE NUMBER: 370629
 AT&T PACE NUMBERS: MRCTB053100, MRCTB052172,
 MRCTB051063, MRCTB050982,
 MRCTB051363, MRCTB051189,
 MRCTB051418

AT&T SITE ID: CT2209
 AT&T FA CODE: 10035221
 AT&T SITE NAME: NORTH HAVEN RAILROAD TRACKS
 SITE ADDRESS: 125 WASHINGTON AVE

NORTH HAVEN, CT 06473

**AT&T LTE LTE 5C/6C || 5G NR 1SR C-BAND/1DR-1|| BBU ADD || 4TXRX RETROFIT
 AMENDMENT PLAN**



LOCATION MAP



Dewberry®
 Dewberry Engineers Inc.
 99 SUMMER STREET
 SUITE 700
 BOSTON, MA 02110
 PHONE: 617.695.3400

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JIM	01/12/21
0	FINAL	BR	04/21/22
1	FINAL	VL	07/29/22
△			
△			

ATC SITE NUMBER:
370629

ATC SITE NAME:
NORTHHAVEN I

AT&T SITE NAME:
NORTH HAVEN RAILROAD
TRACKS
SITE ADDRESS:
125 WASHINGTON AVE
NORTH HAVEN, CT 06473



DATE DRAWN:	04/21/22
ATC JOB NO:	13682689_D1
CUSTOMER ID:	CT2209
CUSTOMER #:	10035221

TITLE SHEET

SHEET NUMBER:
G-001

REVISION:
1

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. 2018 CONNECTICUT STATE BUILDING CODE-AMENDMENTS TO IBC 2015 2. INTERNATIONAL BUILDING CODE 2015, INTERNATIONAL CODE COUNCIL 3. TIA-222-G-4, STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS 4. ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS 5. STEEL CONSTRUCTION MANUAL 14TH EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION 6. CITY/COUNTY ORDINANCES	<u>SITE ADDRESS:</u> 125 WASHINGTON AVE NORTH HAVEN, CT 06473 COUNTY: NEW HAVEN <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.39782709° LONGITUDE: -72.85666812° GROUND ELEVATION: 36' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: <u>TOWER WORK:</u> REMOVE (3) ANTENNA(s), (3) RRU(s), (6) TMA(s) INSTALL MOUNT MODS, (12) ANTENNA(s), (9) RRU(s), (3) Y-CABLES(s), (1) DC-9 SQUID(s), (1) FIBER AND (3) DC TRUNK(s) EXISTING (6) ANTENNA(s), (9) RRU(s), (2) DC-6 SQUID(S), (2) FIBER AND (4) DC TRUNK(s) TO REMAIN <u>GROUND WORK:</u> DECOMMISSION UMTS BBU, REMOVE (6) DIPLEXER(s) INSTALL (3) RRU(s), (1) BB6630 + IDLe AND (1) 6673 FRONTHAUL GATEWAY	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> DEWBERRY ENGINEERS INC. 99 SUMMER STREET SUITE 700 BOSTON, MA 02110 PHONE: 617.695.3400 FAX: 617.695.3310 <u>PROPERTY OWNER:</u> CANDID ASSOCIATES LLC 125 WASHINGTON AVE NORTH HAVEN, CT 06473	<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).	R-001	TITLE SHEET	1	07/29/22	VL
<u>UTILITY COMPANIES</u> POWER COMPANY: N/A PHONE: N/A TELEPHONE COMPANY: N/A PHONE: N/A	<u>PROJECT LOCATION DIRECTIONS</u> FROM DOWNTOWN NEW HAVEN CT START OUT GOING NORTHEAST ON CHURCH ST TOWARD WALL ST. TURN LEFT ONTO GROVE ST. TAKE THE 2ND LEFT ONTO COLLEGE ST. TURN SLIGHT RIGHT ONTO CONGRESS AVE. TURN LEFT ONTO CEDAR ST. TAKE THE 1ST LEFT ONTO WASHINGTON AVE. 127 WASHINGTON AVE, NEW HAVEN, CT 06519-1616, 127 WASHINGTON AVE IS ON THE LEFT.	R-002	GENERAL NOTES	1	07/29/22	VL	
811 Know what's below. Call before you dig.		R-101	DETAILED SITE PLAN	1	07/29/22	VL	
		C-201	TOWER ELEVATION	1	07/29/22	VL	
		C-401	RF SCHEDULE AND ANTENNA INSTALLATION	1	07/29/22	VL	
		C-501	CONSTRUCTION DETAILS	1	07/29/22	VL	
		E-501	GROUNDING DETAILS	1	07/29/22	VL	
		R-601	SUPPLEMENTAL				
		R-602	SUPPLEMENTAL				
		R-603	SUPPLEMENTAL				
		R-604	SUPPLEMENTAL				
		R-605	SUPPLEMENTAL				
		R-606	SUPPLEMENTAL				
		R-607	SUPPLEMENTAL				
		R-608	SUPPLEMENTAL				

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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 ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE AT&T 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 MANUFACTURERS 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.



Dewberry[®]
 Dewberry Engineers Inc.
 99 SUMMER STREET
 SUITE 700
 BOSTON, MA 02110
 PHONE: 617.695.3400

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JIM	01/11/21
0	FINAL	BR	04/21/22
1	FINAL	VL	07/29/22

ATC SITE NUMBER:
370629

ATC SITE NAME:
NORTHHAVEN I

AT&T SITE NAME:
NORTH HAVEN RAILROAD TRACKS

SITE ADDRESS:
 125 WASHINGTON AVE
 NORTH HAVEN, CT 06473



DATE DRAWN:	04/21/22
ATC JOB NO:	13682689_D1
CUSTOMER ID:	CT2209
CUSTOMER #:	10035221

GENERAL NOTES

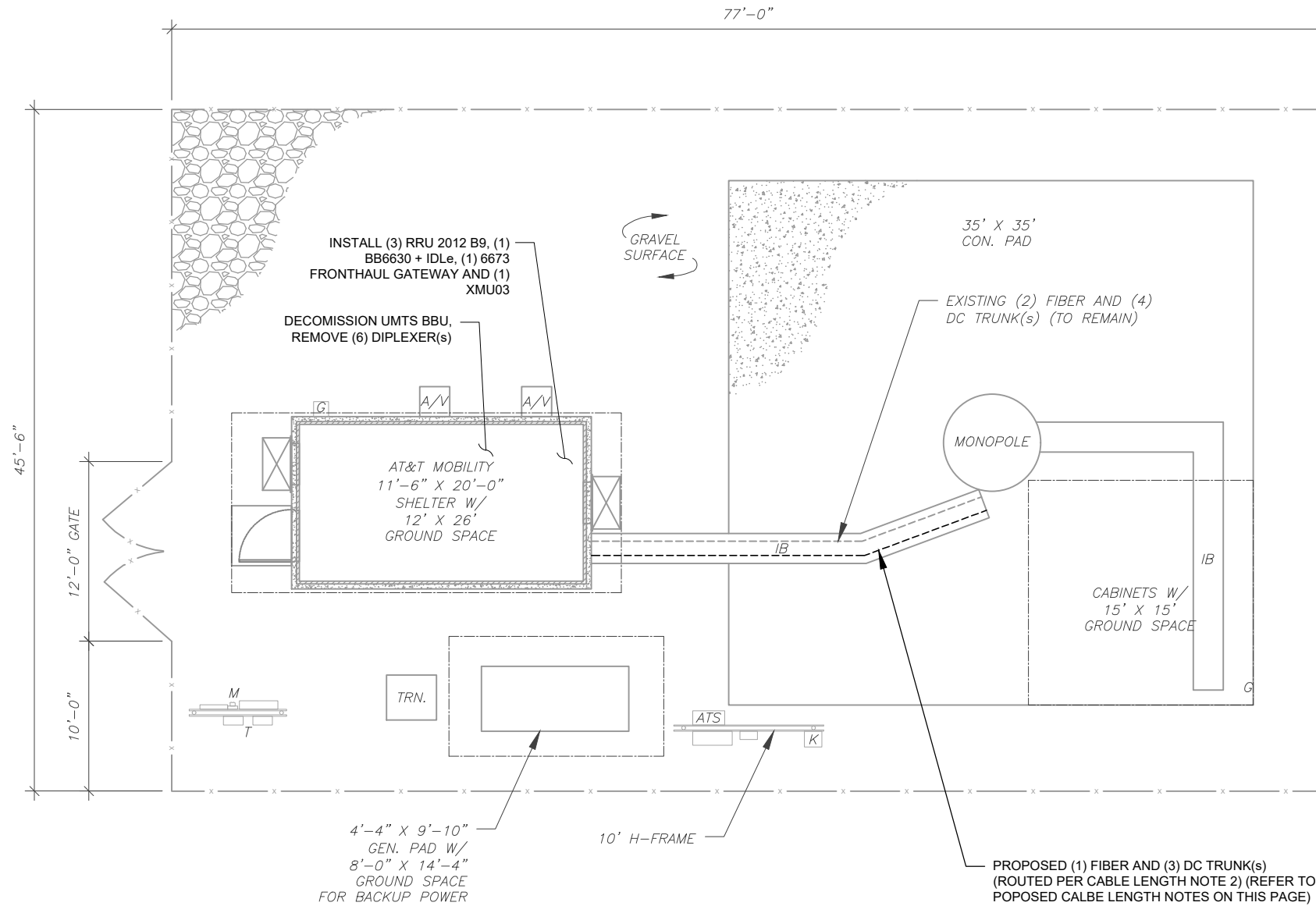
SHEET NUMBER: **G-002** REVISION: **1**

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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.

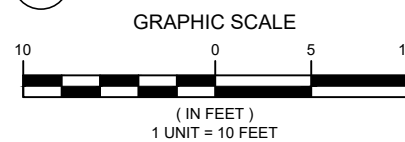
LEGEND	
⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACAL
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
x	CHAINLINK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



PROPOSED CABLE LENGTH:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **170'**. 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.

1 DETAILED SITE PLAN



Dewberry[®]
Dewberry Engineers Inc.
99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.695.3400

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JIM	01/11/21
0	FINAL	BR	04/21/22
1	FINAL	VL	07/29/22

ATC SITE NUMBER:
370629

ATC SITE NAME:
NORTHHAVEN I

AT&T SITE NAME:
NORTH HAVEN RAILROAD
TRACKS
SITE ADDRESS:
125 WASHINGTON AVE
NORTH HAVEN, CT 06473

SEAL:

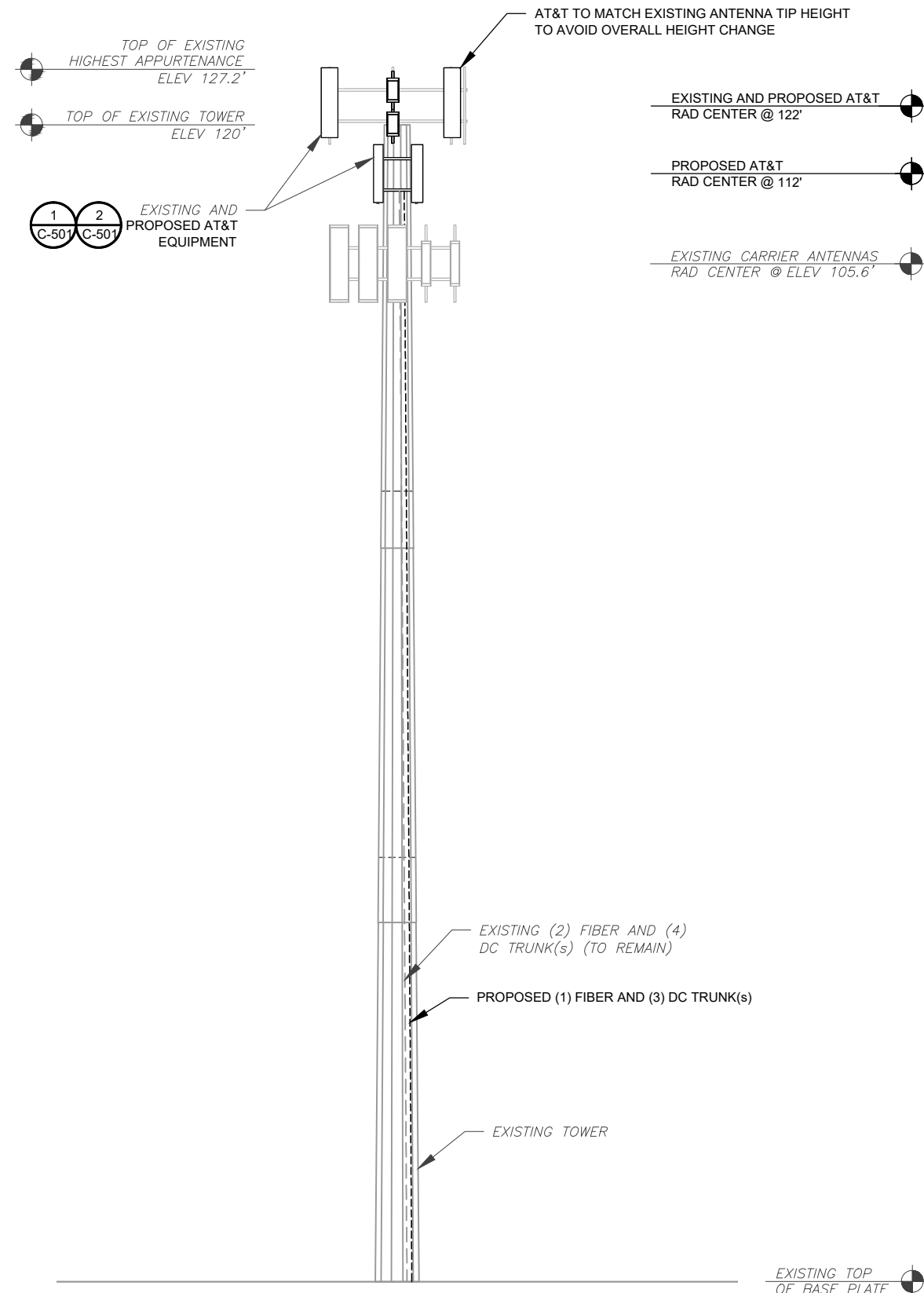


DATE DRAWN:	04/21/22
ATC JOB NO:	13682689_D1
CUSTOMER ID:	CT2209
CUSTOMER #:	10035221

DETAILED SITE PLAN

SHEET NUMBER:
C-101

REVISION:
1



PER MOUNT ANALYSIS COMPLETED BY TELAMON TOWER ENGINEERING PLLC, DATED 06/13/2022, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

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REV.	DESCRIPTION	BY	DATE
A	PRELIM	JIM	01/11/21
0	FINAL	BR	04/21/22
1	FINAL	VL	07/29/22

ATC SITE NUMBER:
370629

ATC SITE NAME:
NORTHAVEN I

AT&T SITE NAME:
NORTH HAVEN RAILROAD TRACKS

SITE ADDRESS:
125 WASHINGTON AVE
NORTH HAVEN, CT 06473



DATE DRAWN:	04/21/22
ATC JOB NO:	13682689_D1
CUSTOMER ID:	CT2209
CUSTOMER #:	10035221

TOWER ELEVATION	
SHEET NUMBER: C-201	REVISION: 1

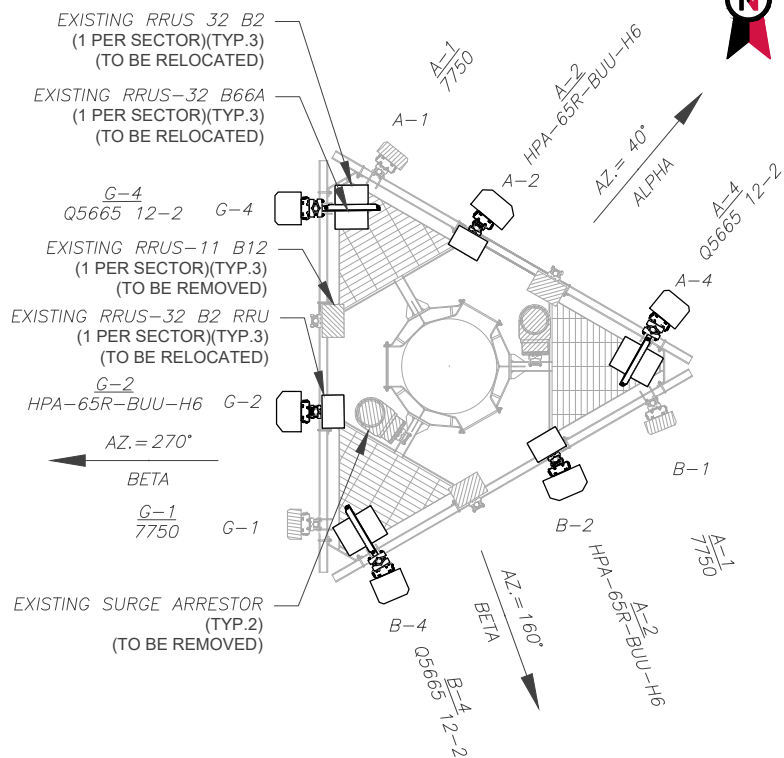
TOWER NOTE:

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

1 TOWER ELEVATION
SCALE: N.T.S.

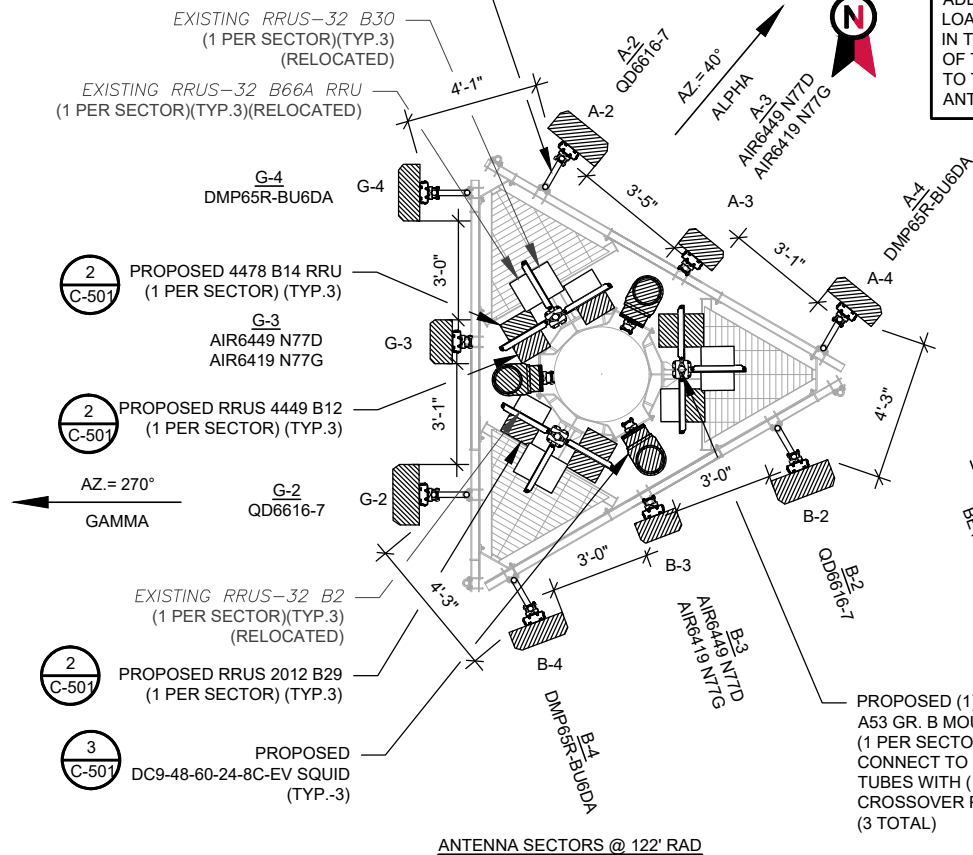
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EXISTING CONFIGURATIONS ARE BASED ON RFDS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.



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

PROPOSED (2) SECONDARY MOUNT PIPE 2 STD X 8'-0" LONG, A53 GR. B, AT POSITIONS 2 & 4 (6 TOTAL) WITH PROPOSED SITE PRO1 DCP18K THREADED ROD KITS (12 TOTAL)



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

PER MOUNT ANALYSIS COMPLETED BY TELAMON TOWER ENGINEERING PLLC, DATED 06/13/2022, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

PROPOSED (1) SITE PRO1 UWS6-NP RING MOUNT TO MONOPOLE WITH (1) SITE PRO1 LP-42 LARGE POLE ADAPTER KIT

PROPOSED (2) 2 STD X 6'-0" LONG MOUNT PIPE AT EACH SECTOR FOR SPARE PANEL CONFIGURATION (6 TOTAL)

PROPOSED (1) RRU PIPE 2 STD X 6'-0" LONG, A53 GR. B MOUNT PIPE (1 PER SECTOR) (3 TOTAL) CONNECT TO STAND-OFF HORIZONTAL HSS TUBES WITH (1) SITE PRO 1 SQX4-K CROSSOVER PLATE KITS AT EACH SECTOR (3 TOTAL)

PROPOSED RRUS MUST BE INSTALLED A MINIMUM OF 12" AWAY FROM ALL ANTENNAS

EXISTING ANTENNA SCHEDULE							
LOCATION		ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT
ALPHA	122'	40°	A1	7770	850	RMV	-
			A2	HPA-65R-BUU-H6	WCS	REL	RRUS-32 B30
			A3	-	-	-	-
			A4	QS66512-2	LTE 700, 1900, AWS	REL	RRUS-11 B12 RRUS 32 B2 RRUS-32 B66A
BETA	122'	160°	B1	7770	850	RMV	-
			B2	HPA-65R-BUU-H6	WCS	REL	RRUS-32 B30
			B3	-	-	-	-
			B4	QS66512-2	LTE 700, 1900, AWS	REL	RRUS-11 B12 RRUS 32 B2 RRUS-32 B66A
GAMMA	122'	270°	C1	7770	850	RMV	-
			C2	HPA-65R-BUU-H6	WCS	REL	RRUS-32 B30
			C3	-	-	-	-
			C4	QS66512-2	LTE 700, 1900, AWS	REL	RRUS-11 B12 RRUS 32 B2 RRUS-32 B66A

EXISTING FIBER DISTRIBUTION/SQUID				EXISTING CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS	FIBER	STATUS
(2) DC6-48-60-18-8F	RMN	-	(4)	(2)	RMN	(2)	RMN

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

- 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)

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'

3 EQUIPMENT SCHEDULES

FINAL ANTENNA SCHEDULE							
LOCATION		ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL MOUNTED EQUIPMENT
ALPHA	122'	40°	A2	QD6616-7	LTE 700, 1900, AWS, 1900, AWS	ADD	RRUS-32-B66A RRUS 4478 B14 RRUS-32 B2 RRUS 2012 B29
			A3	AIR6449 N77D AIR6419 N77G	5G DOD 5GCBAND	ADD ADD	-
			A4	DMP65R-BU6DA	700, 5G 850, WCS	-	RRUS 4449 B5/B12 RRUS-32 B30
			A6	HPA-65R-BUU-H6	-	REL	-
	112'	40°	A7	QS66512-2	-	REL	-
			B2	QD6616-7	LTE 700, 1900, AWS, 1900, AWS	ADD	RRUS-32-B66A RRUS 4478 B14 RRUS-32 B2 RRUS 2012 B29
			B3	AIR6449 N77D AIR6419 N77G	5G DOD 5GCBAND	ADD ADD	-
BETA	122'	160°	B4	DMP65R-BU6DA	700, 5G 850, WCS	-	RRUS 4449 B5/B12 RRUS-32 B30
			B6	HPA-65R-BUU-H6	-	REL	-
			B7	QS66512-2	-	REL	-
			C2	QD6616-7	LTE 700, 1900, AWS, 1900, AWS	ADD	RRUS-32-B66A RRUS 4478 B14 RRUS-32 B2 RRUS 2012 B29
	112'	160°	C3	AIR6449 N77D AIR6419 N77G	5G DOD 5GCBAND	ADD ADD	-
			C4	DMP65R-BU6DA	700, 5G 850, WCS	-	RRUS 4449 B5/B12 RRUS-32 B30
			C6	HPA-65R-BUU-H6	-	REL	-
112'	270°	C7	QS66512-2	-	REL	-	



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 99 SUMMER STREET
 SUITE 700
 BOSTON, MA 02110
 PHONE: 617.695.3400

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A	PRELIM	JIM	01/11/21
0	FINAL	BR	04/21/22
1	FINAL	VL	07/29/22

ATC SITE NUMBER:
370629

ATC SITE NAME:
NORTHHAVEN I

AT&T SITE NAME:
NORTH HAVEN RAILROAD
TRACKS

SITE ADDRESS:
125 WASHINGTON AVE
NORTH HAVEN, CT 06473

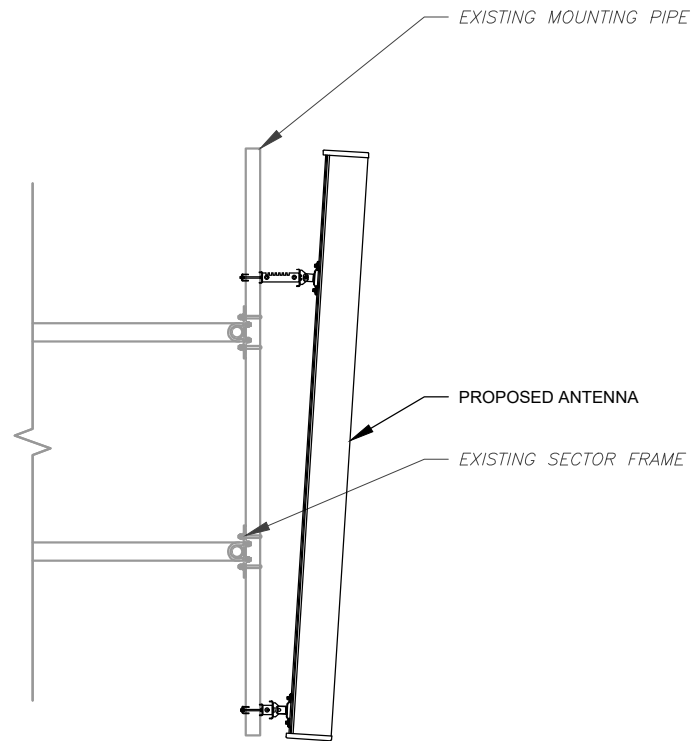


DATE DRAWN:	04/21/22
ATC JOB NO:	13682689_D1
CUSTOMER ID:	CT2209
CUSTOMER #:	10035221

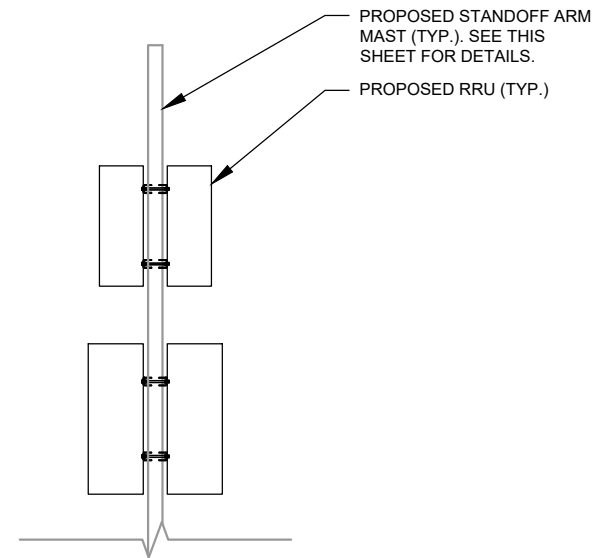
RF SCHEDULE AND
ANTENNA INSTALLATION

SHEET NUMBER:
C-401

REVISION:
1

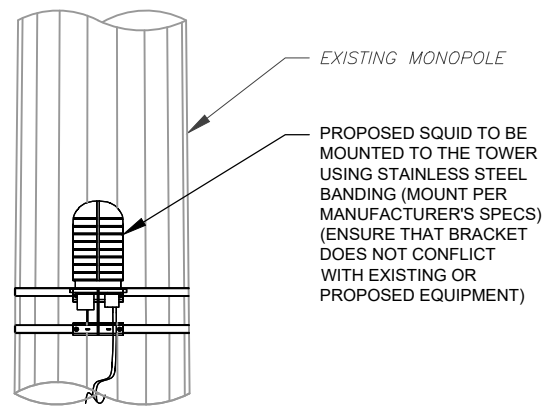


1 ANTENNA DETAIL
SCALE: N.T.S.

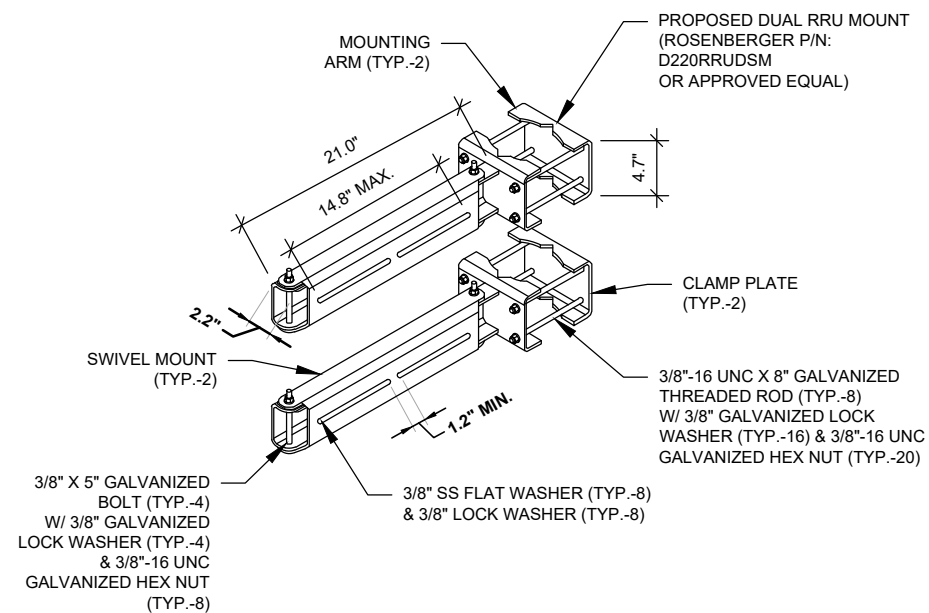


2 PROPOSED RRU MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.

NOTE:
PROVIDE BACK-TO-BACK MOUNT BRACKETS AS REQUIRED.



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



4 PROPOSED SWIVEL MOUNT DETAIL
SCALE: N.T.S.



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A	PRELIM	JIM	01/11/21
0	FINAL	BR	04/21/22
1	FINAL	VL	07/29/22

ATC SITE NUMBER:
370629

ATC SITE NAME:
NORTHHAVEN I

AT&T SITE NAME:
NORTH HAVEN RAILROAD
TRACKS
SITE ADDRESS:
125 WASHINGTON AVE
NORTH HAVEN, CT 06473

SEAL:

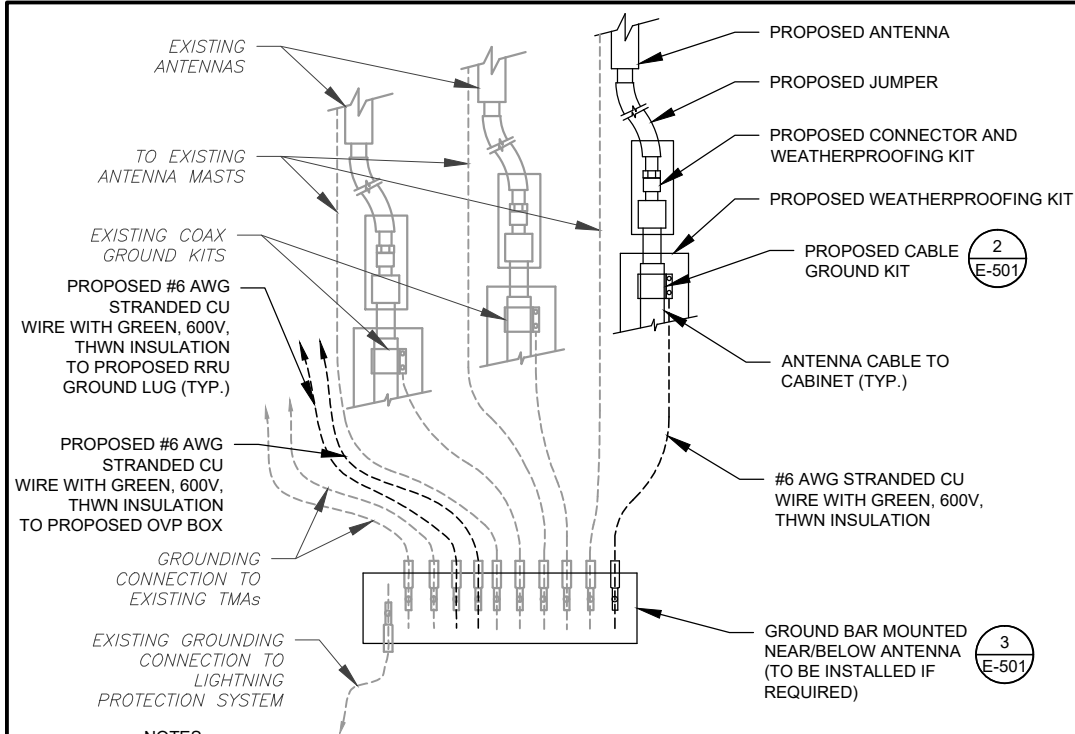


DATE DRAWN:	04/21/22
ATC JOB NO:	13682689_D1
CUSTOMER ID:	CT2209
CUSTOMER #:	10035221

CONSTRUCTION
DETAILS

SHEET NUMBER:
C-501

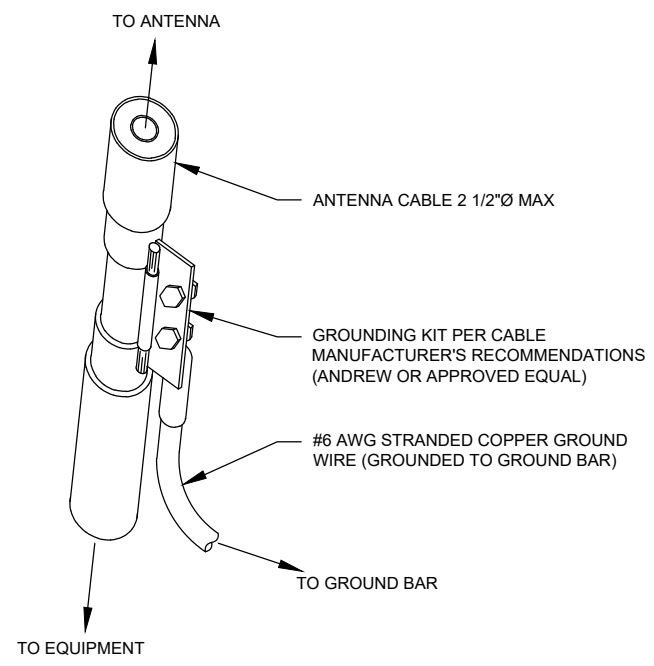
REVISION:
1



NOTES:

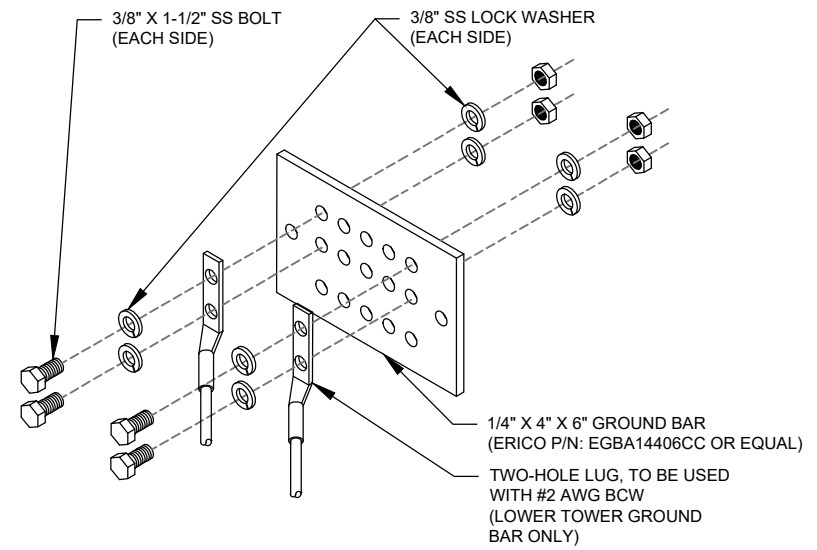
1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH AT&T GROUNDING STANDARDS, 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.



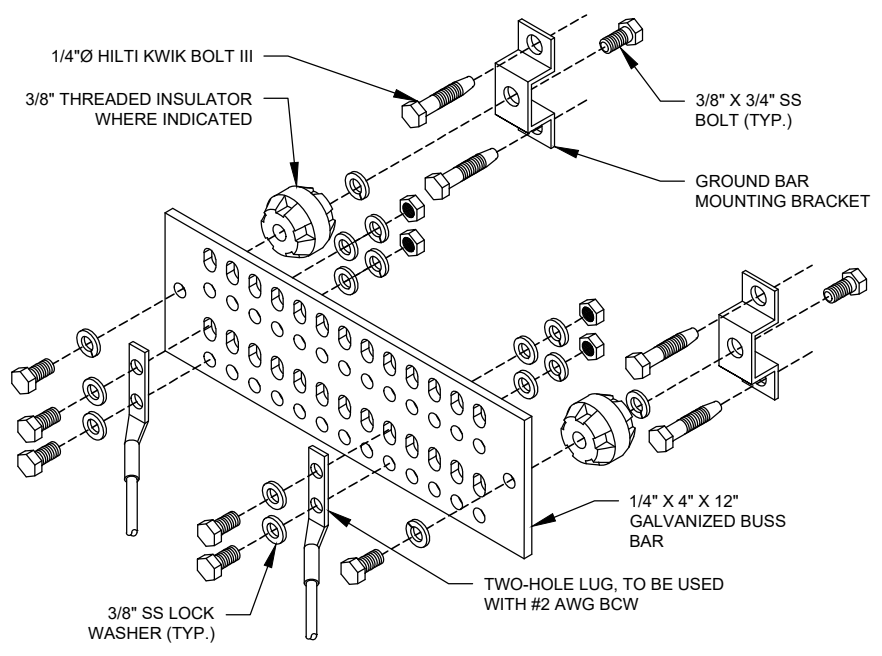
- GROUND KIT NOTES:**
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

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



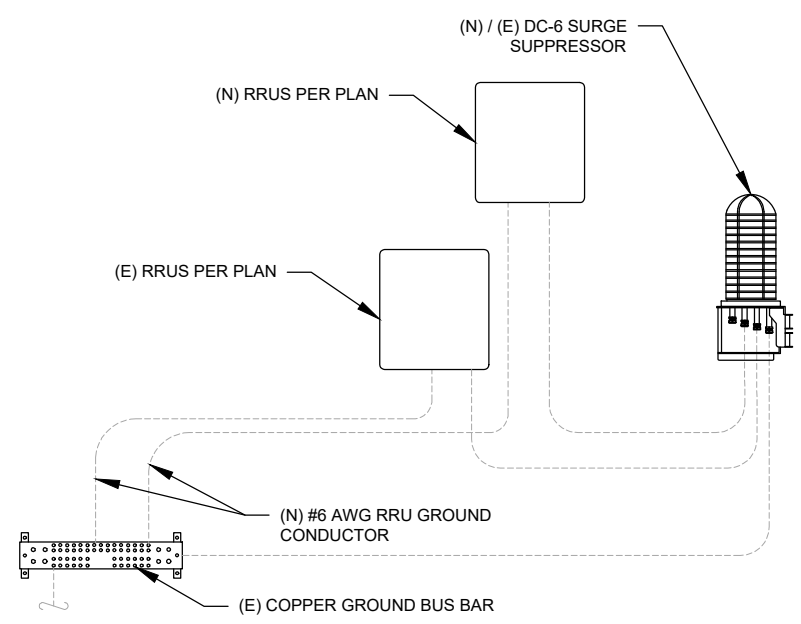
- GROUND BAR NOTES:**
1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
 2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

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

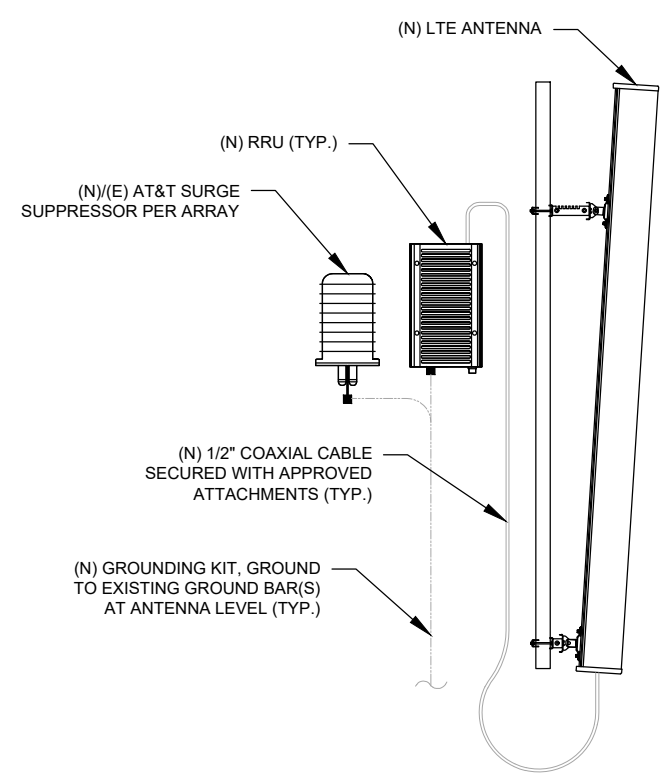


- GROUND BAR NOTES**
1. GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
 2. GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.

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



5 RRU GROUNDING
SCALE: N.T.S.



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



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AT&T SITE NAME:
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SITE ADDRESS:
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NORTH HAVEN, CT 06473

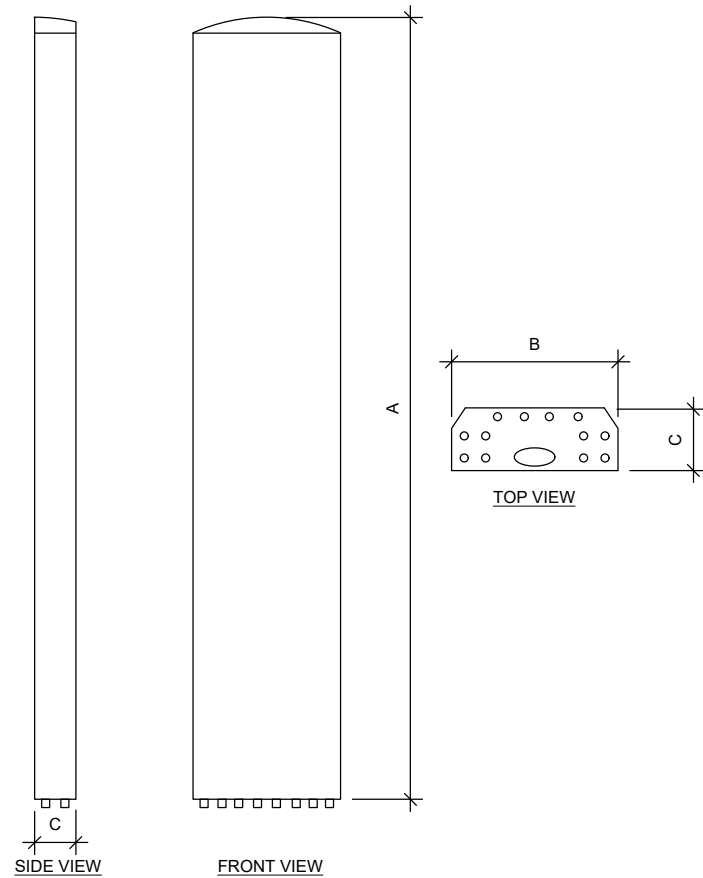


DATE DRAWN:	04/21/22
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CUSTOMER ID:	CT2209
CUSTOMER #:	10035221

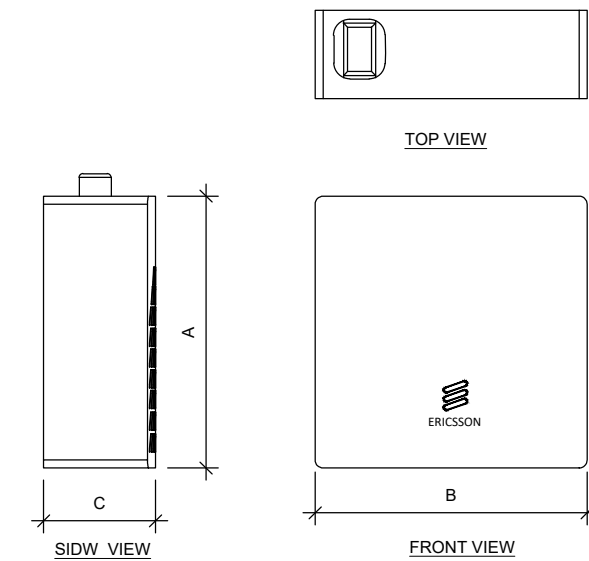
GROUNDING DETAILS

SHEET NUMBER: E-501	REVISION: 1
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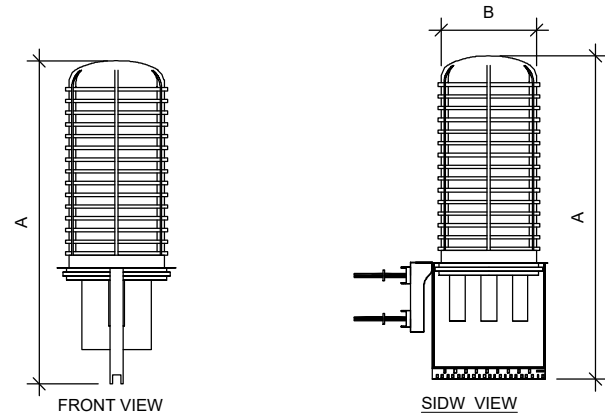
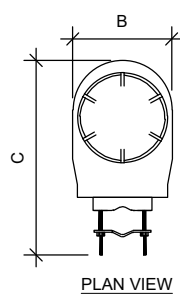
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ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
QUINTEL QD6616-7	72.4"	22.0"	9.6"	130.0
DMP65R-BU6DA	71.2"	20.7"	7.7"	79.4
ERICSSON AIR 6549 N77D	30.4"	15.9"	8.1"	81.6
ERICSSON AIR 6419 B77G	28.3	16.1"	7.9"	66.1



RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
4478 B14	16.5	13.4	7.7	59.9
2012 B29	16.5	13.5	5.9	43.2
4449 B5, B12	17.9	13.2	9.4	71



RAYCAP SPECIFICATIONS				
RAYCAP MODEL	A	B	C	WEIGHT (LBS)
DC9-48-60-24-8C-EV	31.4"	18.3"	10.2"	16

1 EQUIPMENT SPECIFICATIONS
SCALE: N.T.S.



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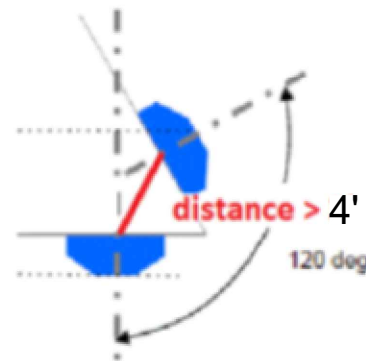
SUPPLEMENTAL

SHEET NUMBER:
R-601

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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° .



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DATE DRAWN:	04/21/22
ATC JOB NO:	13682689_D1
CUSTOMER ID:	CT2209
CUSTOMER #:	10035221

SUPPLEMENTAL

SHEET NUMBER:
R-602



This report was prepared for American Tower Corporation by



Antenna Mount Analysis Report

ATC Site Name : Northhaven I
 ATC Asset Number : 370629
 Engineering Number : 13682689_C8_07
 Mount Elevation : 122 ft
 Carrier : AT&T Mobility
 Carrier Site Name : MRCTB050982
 Carrier Site Number : MRCTB050982
 Site Location : 125 Washington Ave
 North Haven, CT 06473-0000
 41.39783333, -72.85666667
 County : New Haven
 Date : June 13, 2022
 Max Usage : 96%
 Result : Contingent Pass*
 *See conclusion for requirements

Prepared By:
 Snehitha Narava
 Telamon Tower Engineering, PLLC

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



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

D. Chickering
 Digitally signed by David W Chickering
 Date: 2022.06.16 15:31:18 -04'00'

Mount Analysis for American Tower
 370629 - Northhaven I

June 13, 2022
 Telamon Tower Engineering, PLLC Project #41124-13682689_C8_07-02-MA

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 following scope is executed:

- Relocate existing mount pipe at position 2 and position 3 as shown. Connect to existing platform base member using (2) 1/2" U-bolts (12 total). Connect to existing support rail using (1) 1/2" U-bolts (6 total).
- Install (2) secondary mount pipe 2 STD x 8'-0" long, A53 Gr. B, at positions 2 and 4 (6 total) with proposed Site Pro 1 DCP18K threaded rod kits (12 total) as shown. Maintain the minimum required 4'-0" separation between panels.
- Install (1) proposed RRH pipe 2 STD x 6'-0" long, A53 Gr. B, mount pipe at each sector (3 total) as shown. Connect to stand-off horizontal HSS tubes with (1) Site Pro 1 SQCX4-K crossover plate kits at each sector (3 total).
- Install (1) proposed Site Pro 1 UWS6-NP ring mount to monopole with (1) Site Pro 1 LP-42 large pole adapter kit as shown and install (2) proposed pipe 2 STD x 6'-0" long mount pipe at each sector for spare panel configuration (6 total) as shown.

No structural failures were addressed with the noted contingencies. Contingencies address Carrier's antenna spacing requirements.

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.



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 SUITE 700
 BOSTON, MA 02110
 PHONE: 617.695.3400

ATC SITE NUMBER:
 370629

ATC SITE NAME:
 NORTHHAVEN I

AT&T SITE NAME:
 NORTH HAVEN RAILROAD
 TRACKS
 SITE ADDRESS:
 125 WASHINGTON AVE
 NORTH HAVEN, CT 06473



DATE DRAWN: 04/21/22
 ATC JOB NO: 13682689_D1
 CUSTOMER ID: CT2209
 CUSTOMER #: 10035221

SUPPLEMENTAL

SHEET NUMBER:
R-603

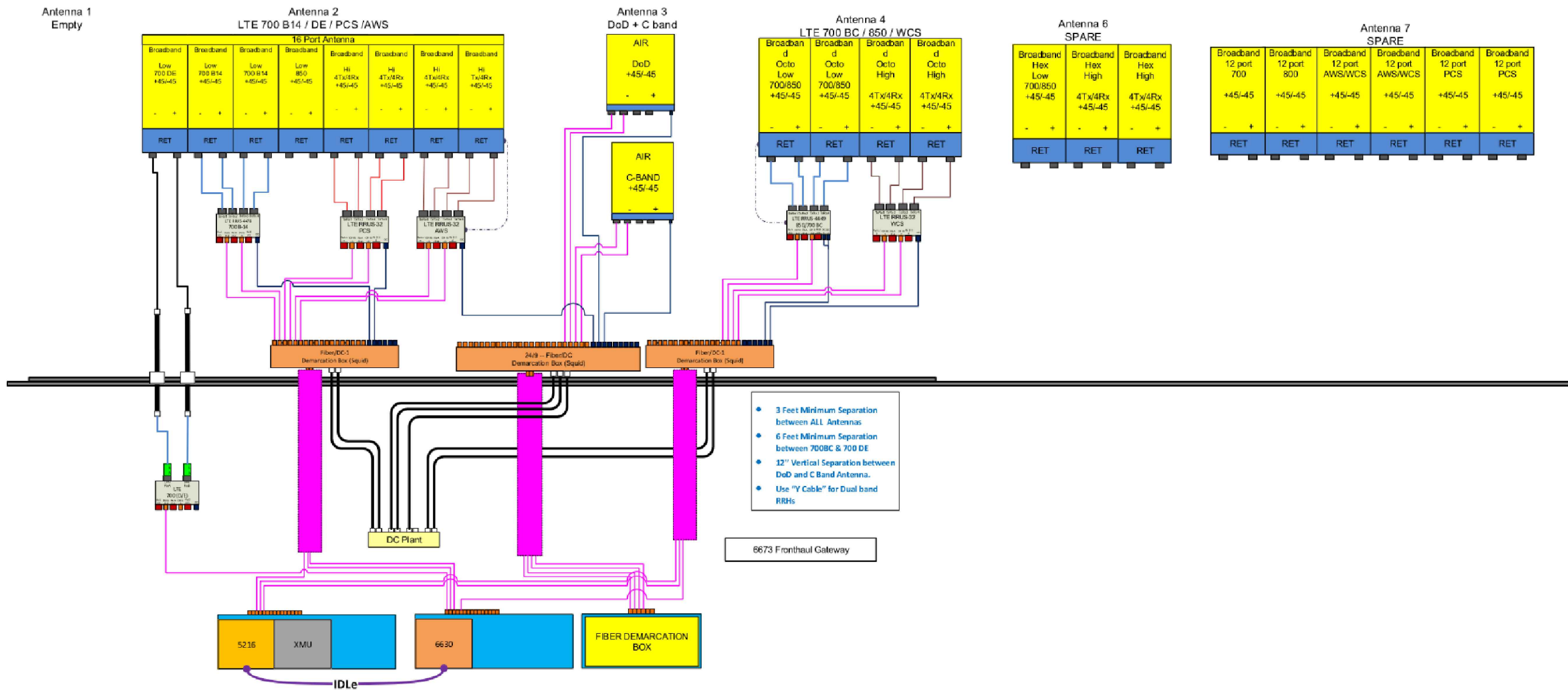
NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY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



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Diagram - Sector: A
 Atoll Site Name: CT2209
 Diagram File Name: CT2209_ABC_C-band.dod DE_B.vsd
 Location Name: NORTH HAVEN RAILROAD TRACKS
 Market: CONNECTICUT
 Market Cluster: NEW ENGLAND

Comments: Important Note: For detailed radio to antenna wiring refer to the latest 4T4R Antenna Radio Port connections Field Notice (RF-HW-2016-265)



1 RFDS PLUMBING DIAGRAM

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.

ATC SITE NUMBER:
370629

ATC SITE NAME:
NORTHHAVEN I

AT&T SITE NAME:
NORTH HAVEN RAILROAD TRACKS
 SITE ADDRESS:
125 WASHINGTON AVE
NORTH HAVEN, CT 06473



DATE DRAWN:	04/21/22
ATC JOB NO:	13682689_D1
CUSTOMER ID:	CT2209
CUSTOMER #:	10035221

SUPPLEMENTAL

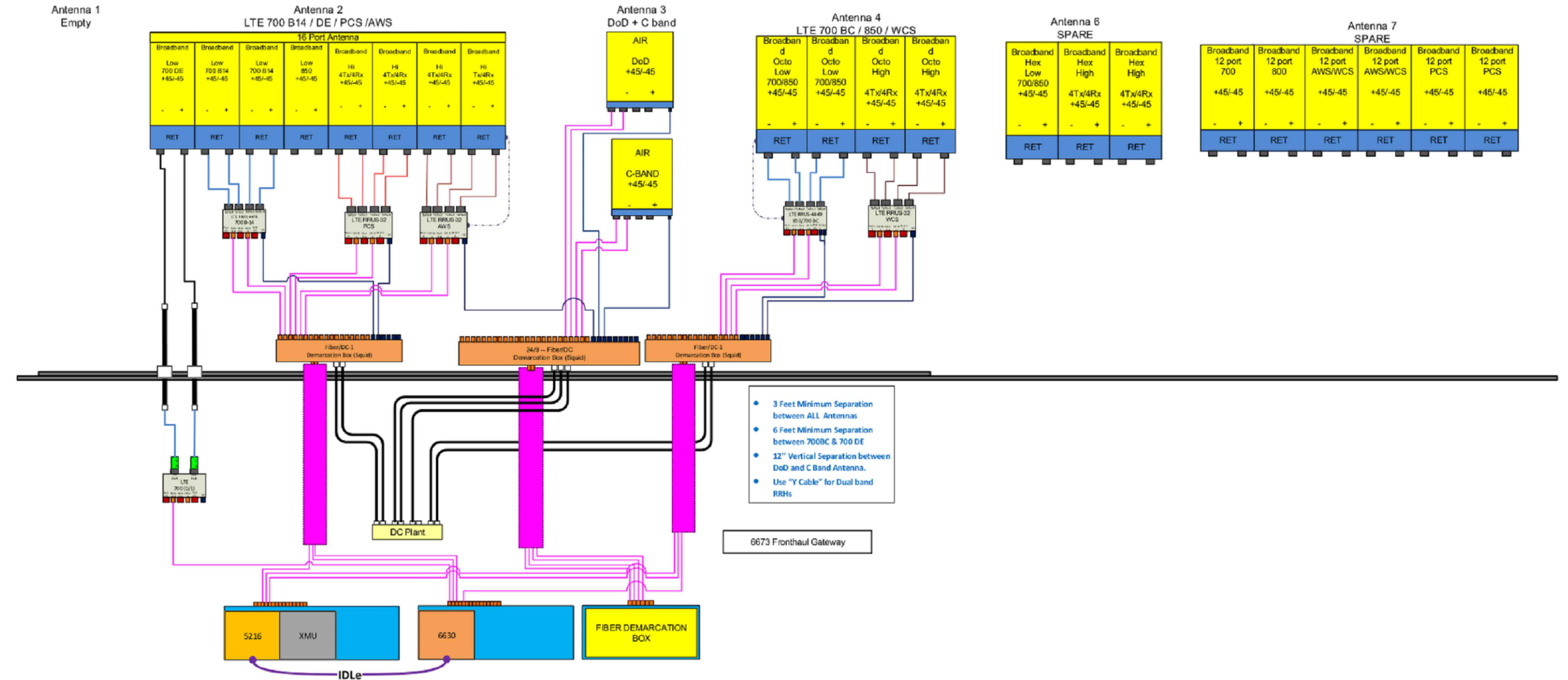
SHEET NUMBER:
R-604

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Diagram - Sector: B
 Atoll Site Name: CT2209
 Diagram File Name: CT2209_ABC_C-band.dod DE_B.vsd
 Location Name: NORTH HAVEN RAILROAD TRACKS
 Market: CONNECTICUT
 Market Cluster: NEW ENGLAND



1 RFDS PLUMBING DIAGRAM

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.

ATC SITE NUMBER:
370629

ATC SITE NAME:
NORTHHAVEN I

AT&T SITE NAME:
NORTH HAVEN RAILROAD TRACKS

SITE ADDRESS:
125 WASHINGTON AVE
NORTH HAVEN, CT 06473



DATE DRAWN:	04/21/22
ATC JOB NO:	13682689_D1
CUSTOMER ID:	CT2209
CUSTOMER #:	10035221

SUPPLEMENTAL

SHEET NUMBER:
R-605

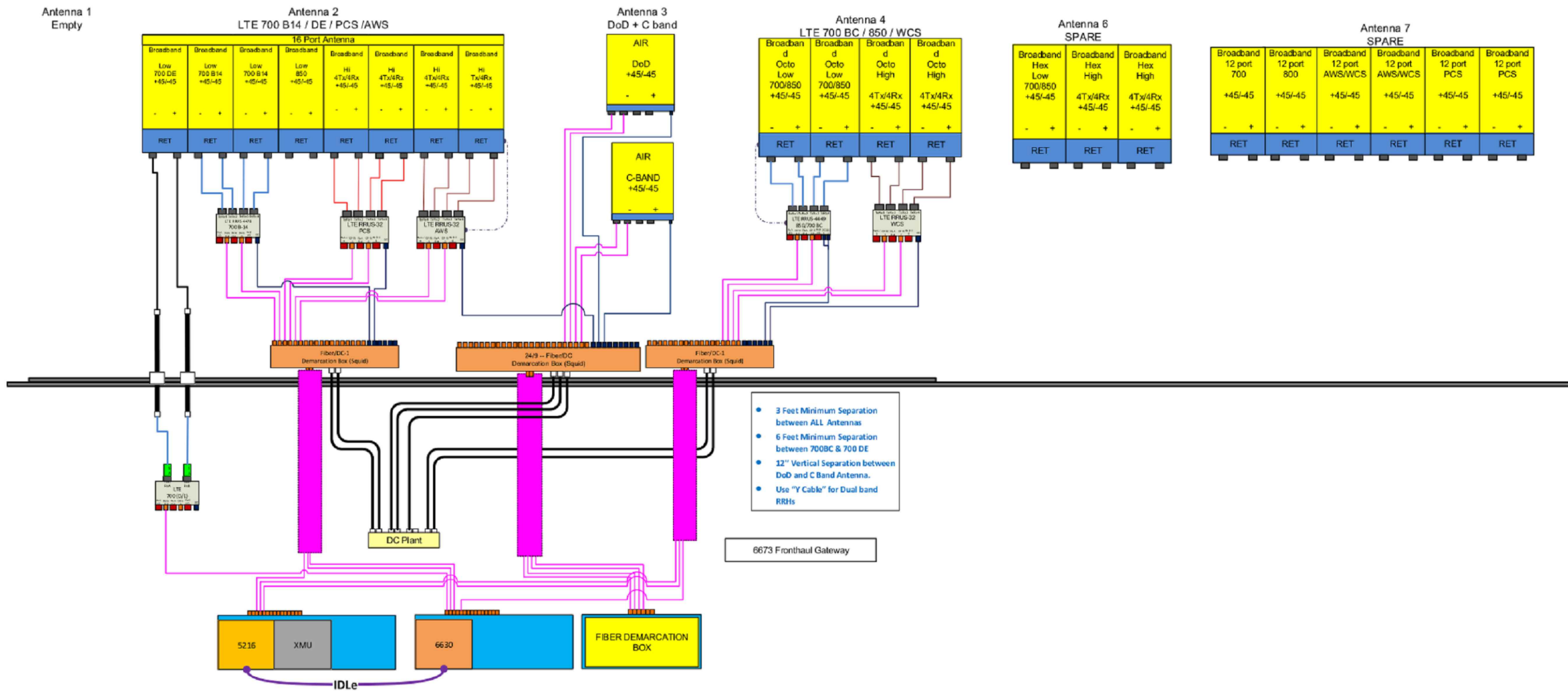
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Diagram - Sector: C
 Atoll Site Name: CT2209
 Diagram File Name: CT2209_ABC_C-band dod DE_B.vsd
 Location Name: NORTH HAVEN RAILROAD TRACKS
 Market: CONNECTICUT
 Market Cluster: NEW ENGLAND

Comments: Important Note: For detailed radio to antenna wiring refer to the latest 4T4R Antenna/ Radio Port connections Field Notice (RF-HW-2016-265)



1 RFDS PLUMBING DIAGRAM



DATE DRAWN:	04/21/22
ATC JOB NO:	13682689_D1
CUSTOMER ID:	CT2209
CUSTOMER #:	10035221

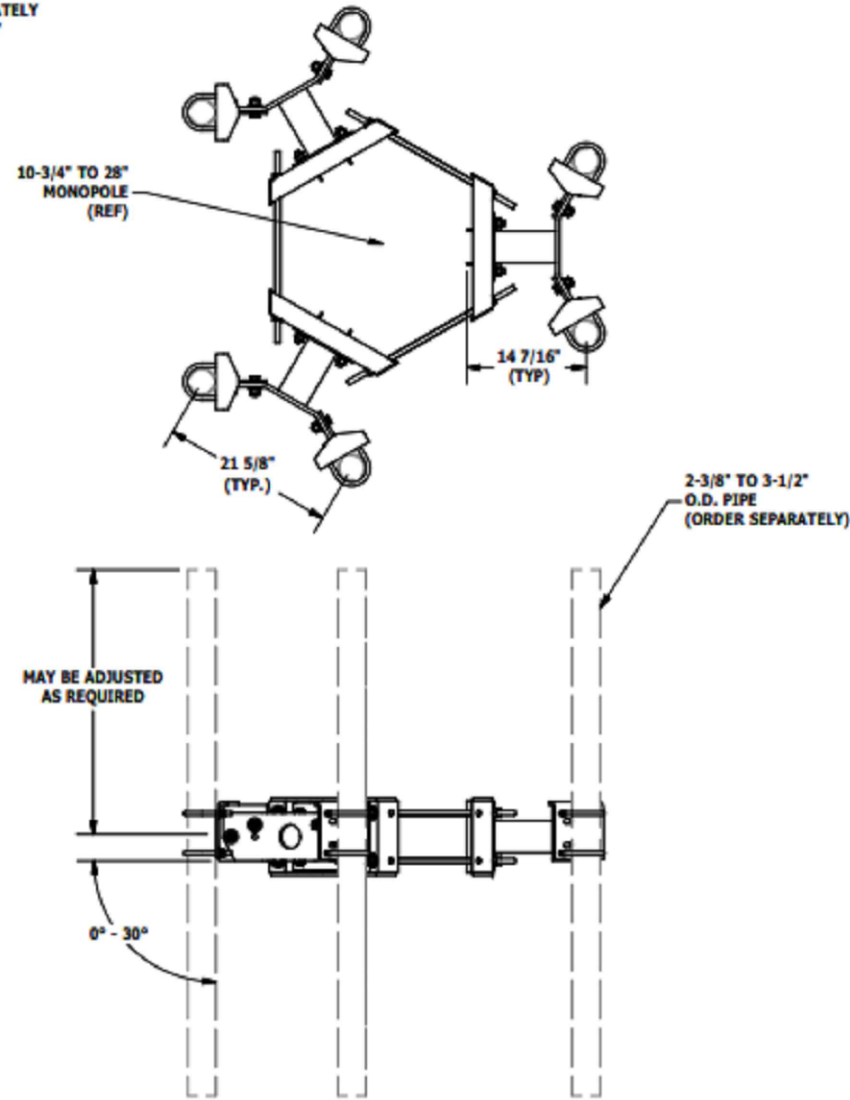
SUPPLEMENTAL

SHEET NUMBER:
R-606

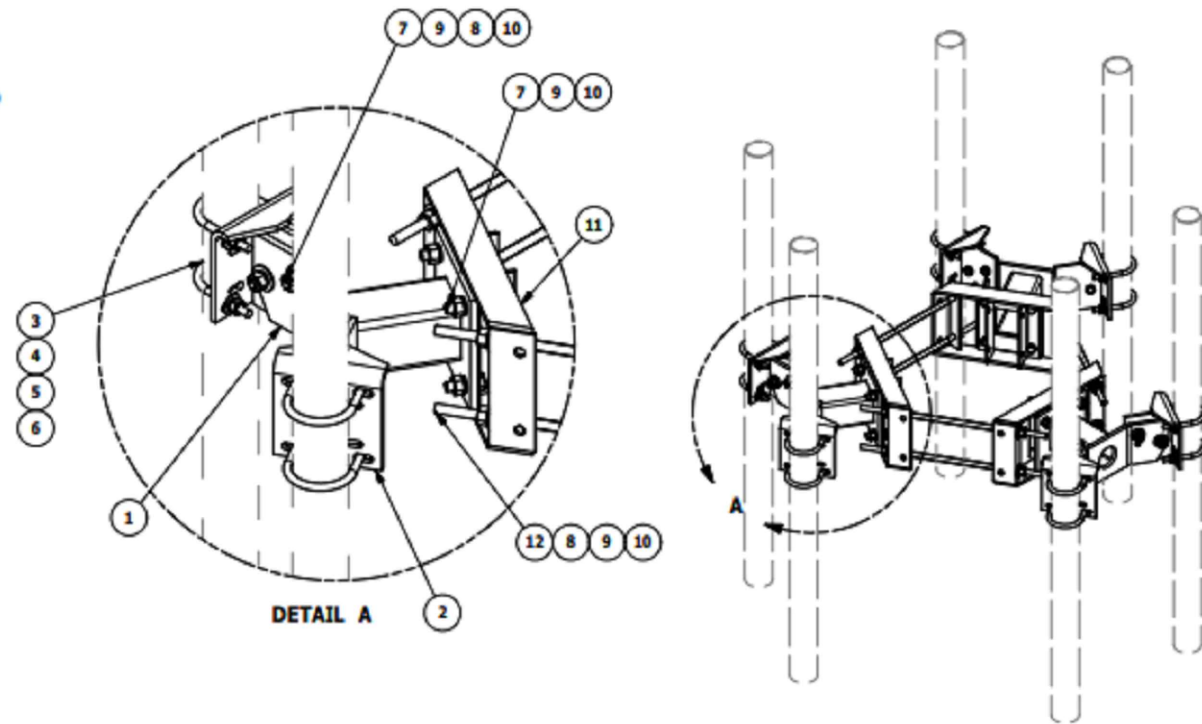
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NOTE:
FOR POLE SIZES
28" TO 42" DIAMETER
ORDER SEPARATELY
PART # "LP-42"



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-210717	STANDOFF BRACKET WELDMENT		28.58	85.74
2	6	X-ATB	PIPE ATTACHMENT BRACKET		10.68	64.10
3	12	X-UB1358	1/2" X 3-5/8" X 5-1/2" X 3" U-BOLT (HDG.)		0.77	9.27
3	12	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.70	8.40
3	12	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	7.56
4	24	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.82
5	24	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.33
6	24	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.72
7	24	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	6.47
8	24	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	1.69
9	36	G58LW	5/8" HDG LOCKWASHER		0.03	0.94
10	36	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	4.68
11	3	X-UGLM	MINI RING MOUNT WELDMENT		21.67	65.00
12	6	G58R-24	5/8" x 24" THREADED ROD (HDG.)	24 in	0.40	2.39
12	6	G58R-14	5/8" x 14" THREADED ROD (HDG.)		0.40	2.39
					TOTAL WT. #	276.40



TOLERANCE NOTE TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES (± 0.030") DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES BENDS ARE ± 1/2 DEGREE - ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.080")				DESCRIPTION ANTENNA MOUNT - MONOPOLE (14-1/2" STANDOFF)		Engineering Support Team: 1-888-753-7446 Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX											
REVISION HISTORY <table border="1"> <thead> <tr> <th>REV</th> <th>DESCRIPTION OF REVISIONS</th> <th>CPD</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>REPLACED X-210746 WITH X-ATB</td> <td>semb</td> <td>CEK</td> <td>1/5/2012</td> </tr> </tbody> </table>		REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE	A	REPLACED X-210746 WITH X-ATB	semb	CEK	1/5/2012	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.		DRAWN BY CEK 1/4/2012		CDP NO. semb	
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE													
A	REPLACED X-210746 WITH X-ATB	semb	CEK	1/5/2012													
		DRAWING USAGE CUSTOMER		PART NO. UWS6-NP		1 OF 1											
		ENG. APPROVAL		CHECKED BY BMC 1/6/2012		DWG. NO. UWS6-NP											



DATE DRAWN:	04/21/22
ATC JOB NO:	13682689_D1
CUSTOMER ID:	CT2209
CUSTOMER #:	10035221

SUPPLEMENTAL

SHEET NUMBER:
R-607



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ATC SITE NUMBER:
 370629

ATC SITE NAME:
 NORTHAVEN I

AT&T SITE NAME:
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 SITE ADDRESS:
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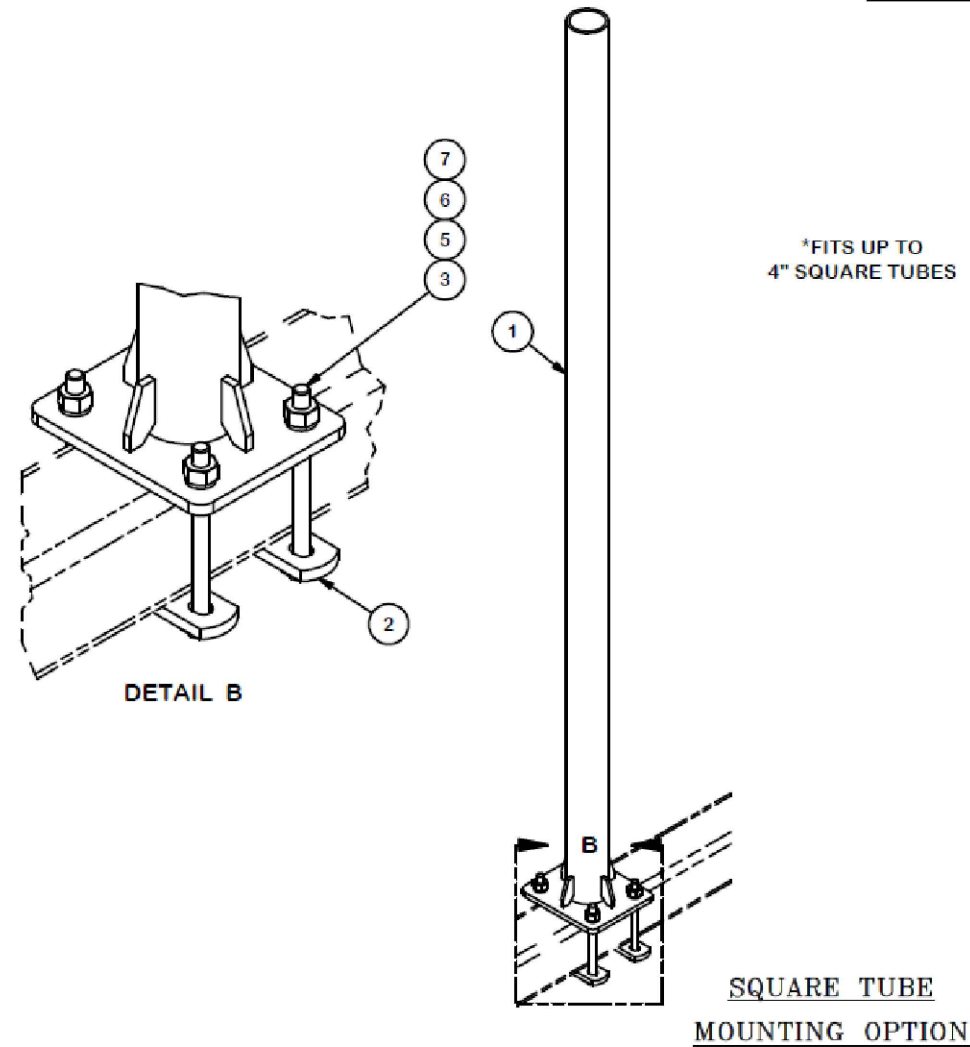
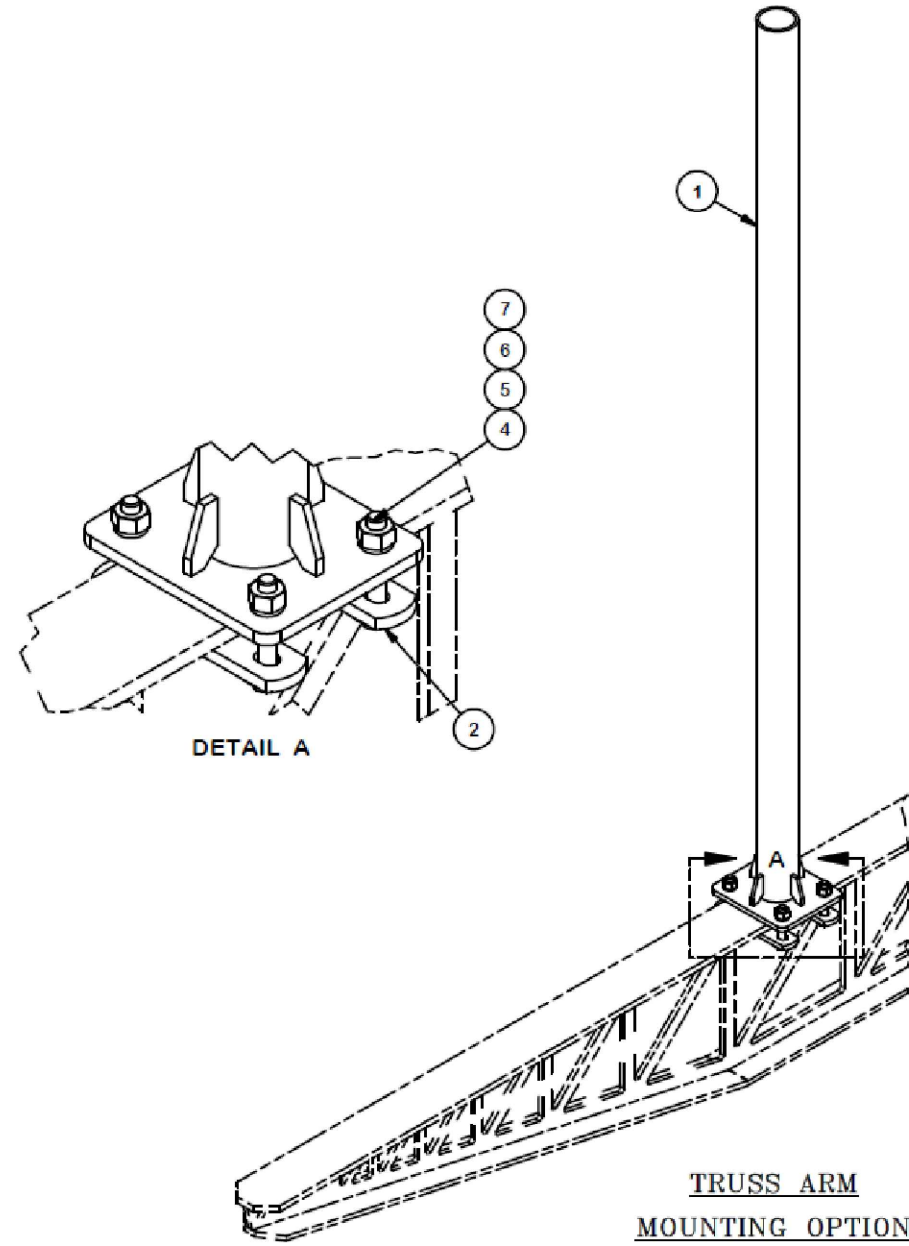


DATE DRAWN: 04/21/22
 ATC JOB NO: 13682689_D1
 CUSTOMER ID: CT2209
 CUSTOMER #: 10035221

SUPPLEMENTAL

SHEET NUMBER:
R-608

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-SAMAST-6	6' STANDOFF ARM MAST WELDMENT		23.19	23.19
2	2	X-115765	5" V-CLAMP	7 1/16 in	1.03	2.05
3	4	G1206	1/2" x 6" HDG HEX BOLT GR5 FULL THREAD	2 in	0.38	1.53
4	4	G1203	1/2" x 3" HDG HEX BOLT GR5 FULL THREAD	3 in	0.22	0.87
5	4	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.14
6	4	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.06
7	4	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.29
TOTAL WT. #						28.11



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 AND ANGLES ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING ($\pm 0.030"$)
 ALL OTHER ASSEMBLY ($\pm 0.060"$)

PROPRIETARY NOTE:
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DESCRIPTION
 6' STANDOFF
 ARM MAST



Engineering
 Support Team:
 1-888-753-7446

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

PART NO. SAMAST-6

DWG. NO. SAMAST-6

CPD NO.	DRAWN BY	ENG. APPROVAL
	CEK 6/19/2019	
CLASS	SUB	DRAWING USAGE
81	02	CUSTOMER
		CHECKED BY
		BMC 6/19/2019

PAGE
 1 OF 1

1 STANDOFF SPECIFICATION

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