

February 6, 2023

Building Department
Town of North Haven
18 Church Street
North Haven, CT 06473

**Construction Closeout Letter
Building Permit #B-22-1074**

ATC Site Name: North Haven CT
ATC Asset#: 283418
AT&T Site#: CTLo3506
Site Address: 50 Devine Street
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-o Construction Drawings dated 04/25/22. A structural analysis report was completed by American Tower Corporation, dated 11/29/21 and a mount analysis report was completed by CLS Engineering, PLLC dated 11/23/21.

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

- February 6, 2023 – Contractor Report
- January 16, 2023 – As-Built drawings

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:	North Haven CT
ATC Site#/Project#:	283418 / 13683386
Site Address:	50 Devine Street North Haven, CT 06473
Contractor:	Centerline Communications, LLC

Dewberry Engineers Inc. (Dewberry) has reviewed the photos and as-built drawings provided by the general contractor of the recently completed site improvements at the aforementioned location. The site review was performed based on Rev-0 Construction Drawings dated 04/25/22. A structural analysis report was completed by American Tower Corporation, dated 11/29/21 and a mount analysis report was completed by CLS Engineering, PLLC dated 11/23/21.

The following are on-site photos from the inspection:

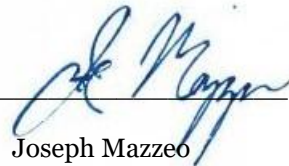
Figure 1: View of installed alpha sector antennas and RRUs on existing mount platform

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

AS BUILT
Centerline Communications
Tristen Spear
1/16/23 3:34 PM

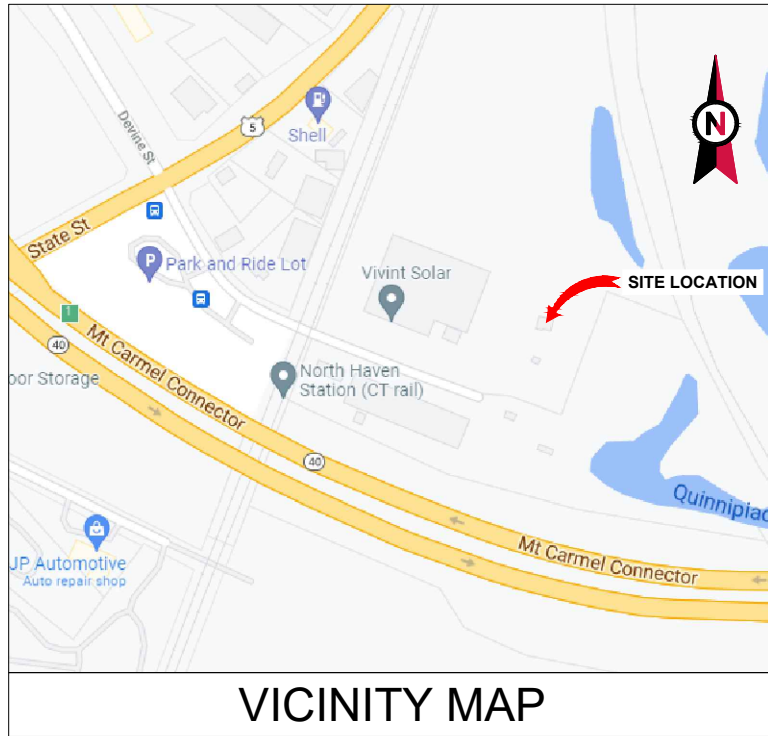


AMERICAN TOWER®

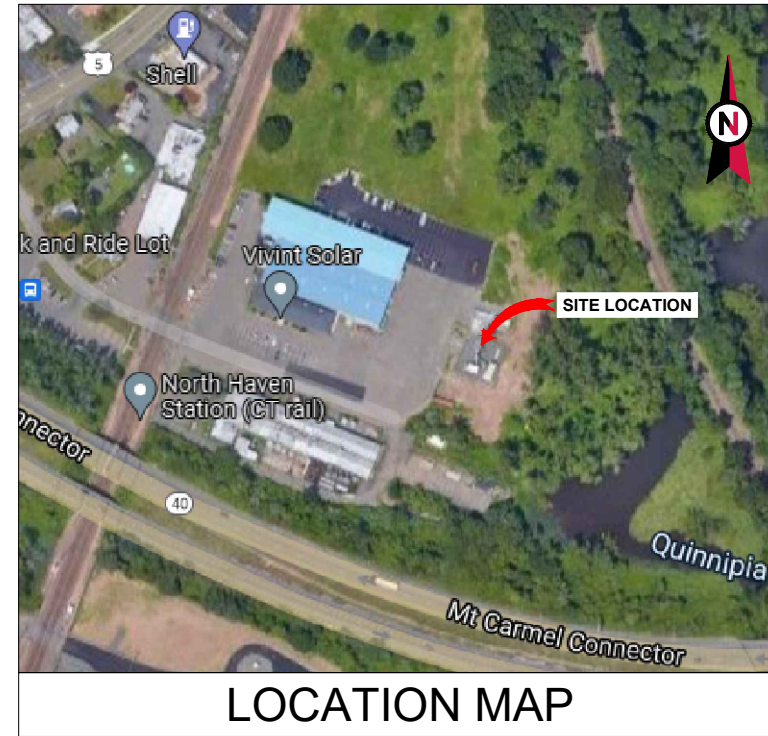
ATC SITE NAME: NORTH HAVEN CT
 ATC SITE NUMBER: 283418
 AT&T PACE NUMBERS: MRCTB052886, MRCTB052144,
 MRCTB051694, MRCTB051593

AT&T SITE ID: CT3506
 AT&T FA CODE: 10578263
 AT&T SITE NAME: NORTH HAVEN DEVINE STREET
 SITE ADDRESS: 50 DEVINE STREET

NORTH HAVEN, CT 06473-2204
AT&T LTE NEXT CARRIER LTE 7C; 5G NR 1 SR C BAND
AMENDMENT PLAN



VICINITY MAP



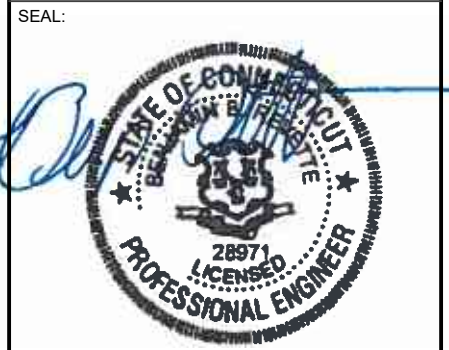
LOCATION MAP



Dewberry®
 Dewberry Engineers Inc.
 99 SUMMER STREET
 SUITE 700
 BOSTON, MA 02110
 PHONE: 617.695.3400
 FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
A	PRELIM	MA	12/07/21
O	FINAL	VL	04/25/22

ATC SITE NUMBER:
 283418
 ATC SITE NAME:
 NORTH HAVEN CT
 AT&T SITE NAME:
 NORTH HAVEN DEVINE STREET
 SITE ADDRESS:
 50 DEVINE STREET
 NORTH HAVEN, CT 06473-2204



DATE DRAWN:	12/03/21
ATC JOB NO:	13683386_D1
CUSTOMER ID:	CT3506
CUSTOMER #:	10578263

TITLE SHEET

SHEET NUMBER:
G-001
 REVISION:
0

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
<p>ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.</p> <ol style="list-style-type: none"> 2018 CONNECTICUT STATE BUILDING CODE-AMENDMENTS TO IBC 2015 INTERNATIONAL BUILDING CODE 2015, INTERNATIONAL CODE COUNCIL TIA-222-G-4, STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS STEEL CONSTRUCTION MANUAL 14TH EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION CITY/COUNTY ORDINANCES 	<p><u>SITE ADDRESS:</u> 50 DEVINE STREET NORTH HAVEN, CT 06473-2204 COUNTY: NEW HAVEN</p> <p><u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.3777125 LONGITUDE: -72.87619085 GROUND ELEVATION: 8' AMSL</p>	<p>THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:</p> <p><u>TOWER WORK:</u> REMOVE (9) ANTENNA(S) AND (1) RRU(S) INSTALL (9) ANTENNA(S) AND (6) Y-CABLES(S)</p> <p>EXISTING (6) ANTENNA(S) TO BE RELOCATED, (3) ANTENNA(S), (12) RRU(S), (4) SQUIDS, (8) DC AND (3) FIBER TRUNKS TO REMAIN</p> <p><u>GROUND WORK:</u> INSTALL (1) FRONTHAUL GATEWAY</p>	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
			G-001	TITLE SHEET	0	04/25/22	VL
			G-002	GENERAL NOTES	0	04/25/22	VL
			C-101	DETAILED SITE PLAN	0	04/25/22	VL
			C-201	TOWER ELEVATION	0	04/25/22	VL
			C-401	RF SCHEDULE AND ANTENNA INSTALLATION	0	04/25/22	VL
			C-501	CONSTRUCTION DETAILS	0	04/25/22	VL
			E-501	GROUNDING DETAILS	0	04/25/22	VL
			R-601	SUPPLEMENTAL			
			R-602	SUPPLEMENTAL			
			R-603	SUPPLEMENTAL			
			R-604	SUPPLEMENTAL			

PROJECT TEAM
<p><u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801</p> <p><u>ENGINEER:</u> DEWBERRY ENGINEERS, INC 99 SUMMER STREET SUITE 700 BOSTON, MA 02110</p> <p><u>PROPERTY OWNER:</u> LD ACQUISITION COMPANY 16 LLC 50 DEVINE STREET NORTH HAVEN, CT 06473-2204</p>
<p><u>APPLICANT:</u> AT&T MOBILITY 550 COCHITUATE ROAD SUITES 13 & 14 FRAMINGHAM, MA 01701</p>

PROJECT NOTES
<ol style="list-style-type: none"> THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. HANDICAP ACCESS IS NOT REQUIRED. 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).

PROJECT LOCATION DIRECTIONS
<p>FROM NEW HAVEN CT START GOING NORTHEAST ON CHURCH ST WHICH TURNS INTO WHITNEY AVE. TURN RIGHT ON TRUMBULL ST. MERGE ONTO I-91 NORTH TOWARD HARTFORD. TAKE EXIT 10 TO CT-40 HAMDEN / CHESHIRE TAKE EXIT 1 TOWARD US-5 STATE ST. TURN RIGHT ON DEVINE ST. GO STRAIGHT OVER RAILROAD TRACKS TO END.</p>

UTILITY COMPANIES

POWER COMPANY: ----
 PHONE: ----

TELEPHONE COMPANY: ----
 PHONE: ----

**Know what's below.
 Call before you dig.**

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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 ANSIEIA/ITIA-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.

**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.
 - 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)

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Centerline Communications
Tristen Spear
1/16/23 3:34 PM

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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Dewberry Engineers Inc.
99 SUMMER STREET
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BOSTON, MA 02110
PHONE: 617.695.3400
FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
A	PRELIM	MA	12/07/21
0	FINAL	VL	04/25/22

ATC SITE NUMBER:
283418

ATC SITE NAME:
NORTH HAVEN CT

AT&T SITE NAME:
NORTH HAVEN DEVINE STREET

SITE ADDRESS:
50 DEVINE STREET
NORTH HAVEN, CT 06473-2204



DATE DRAWN:	12/03/21
ATC JOB NO:	13683386_D1
CUSTOMER ID:	CT3506
CUSTOMER #:	10578263

GENERAL NOTES

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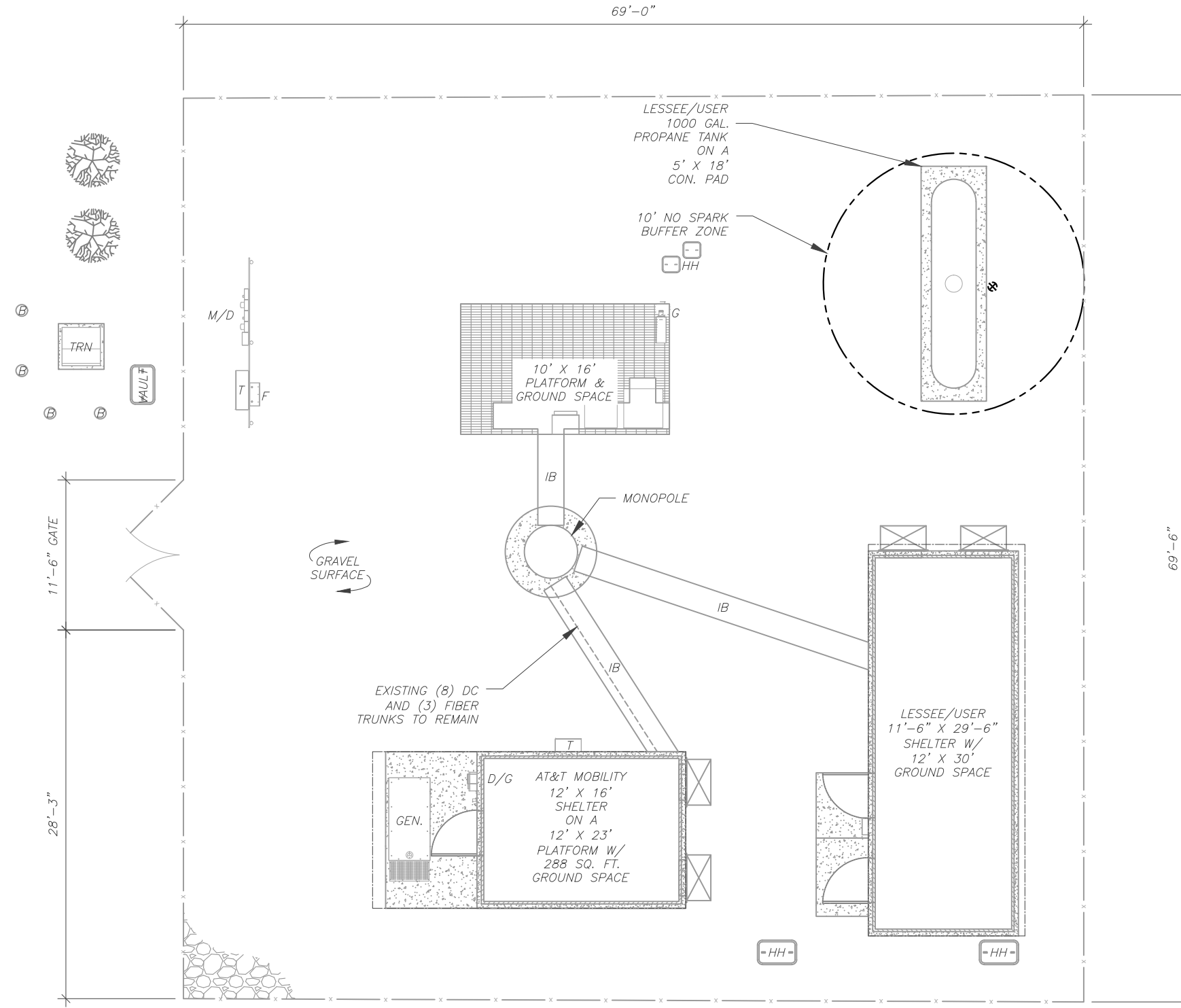
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SITE PLAN NOTES:

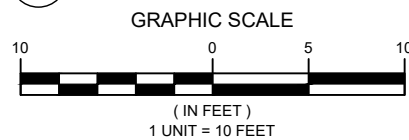
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE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

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

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Tristen Spear
1/16/23 3:34 PM



1 DETAILED SITE PLAN



ATC LEASE AREA BOUNDARY LINE (TYP.)



Dewberry
 Dewberry Engineers Inc.
 99 SUMMER STREET
 SUITE 700
 BOSTON, MA 02110
 PHONE: 617.695.3400
 FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
A	PRELIM	MA	12/07/21
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ATC SITE NUMBER:
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ATC SITE NAME:
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AT&T SITE NAME:
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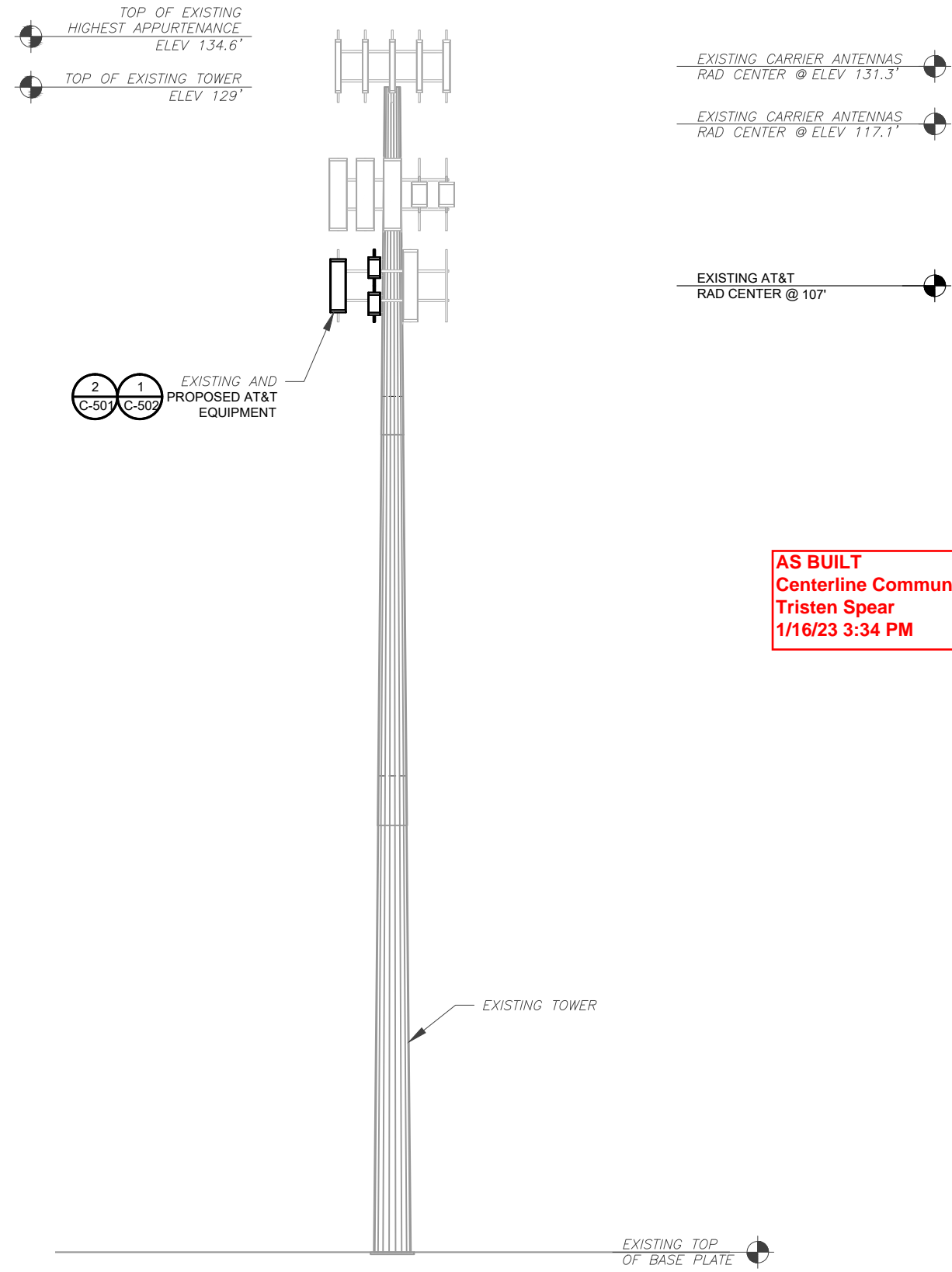
SITE ADDRESS:
 50 DEVINE STREET
 NORTH HAVEN, CT 06473-2204



DATE DRAWN:	12/03/21
ATC JOB NO:	13683386_D1
CUSTOMER ID:	CT3506
CUSTOMER #:	10578263

DETAILED SITE PLAN	
SHEET NUMBER:	REVISION:
C-101	0

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PER MOUNT ANALYSIS COMPLETED BY CLS ENGINEERING PLLC, DATED NOVEMBER 23, 2021, 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.

1 TOWER ELEVATION
SCALE: N.T.S.

- 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.

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ATC SITE NAME:
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AT&T SITE NAME:
NORTH HAVEN DEVINE STREET

SITE ADDRESS:
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NORTH HAVEN, CT 06473-2204

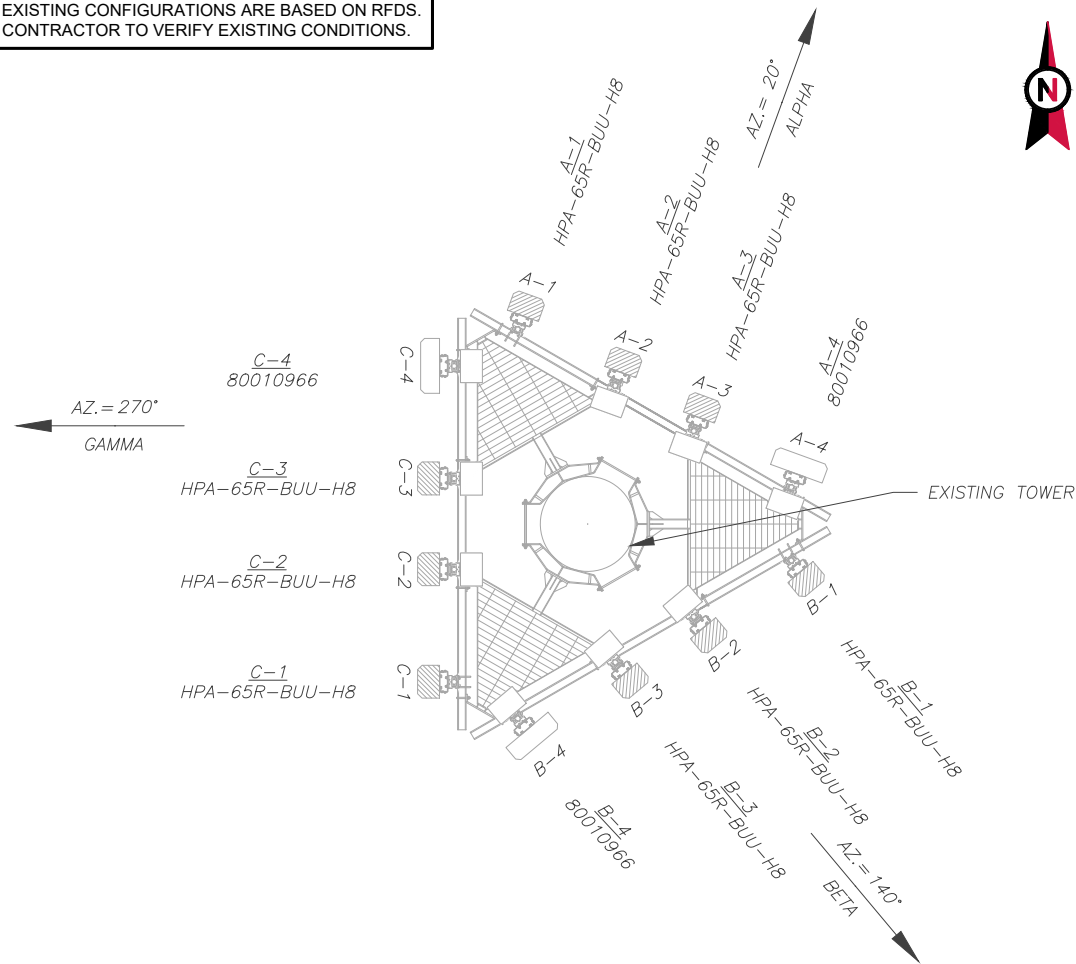


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TOWER ELEVATION	
SHEET NUMBER: C-201	REVISION: 0

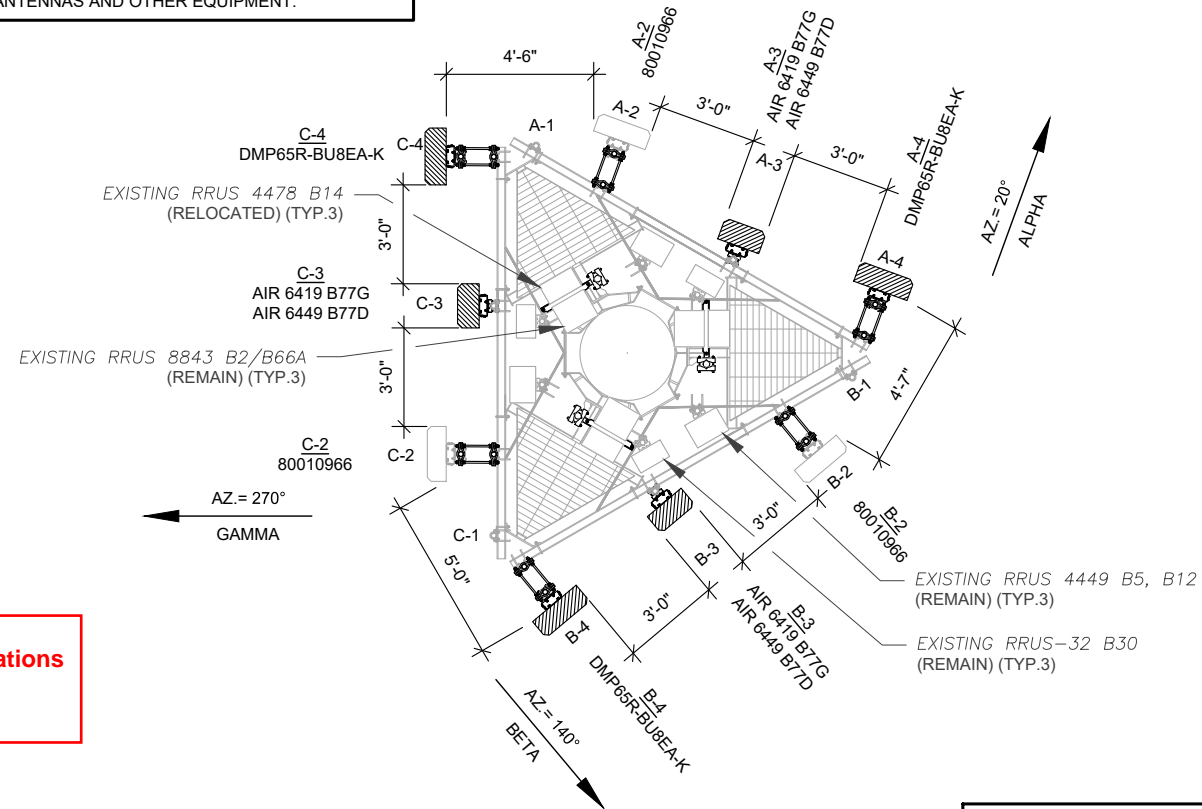
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EXISTING CONFIGURATIONS ARE BASED ON RFDS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.



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

PER MOUNT ANALYSIS COMPLETED BY CLS ENGINEERING PLLC, DATED NOVEMBER 23, 2021, 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.



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

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

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	STATUS
ALPHA	107'	20°	A1	CC-HPA-65R-BUU-H8	UMTS 850	RMV	RRUS-11 B5	RMV
			A2	CC-HPA-65R-BUU-H8	LTE WCS	RMN	RRUS-32 B30	REL
			A3	CC-HPA-65R-BUU-H8	LTE 700/1900	RMV	RRUS 4478 B14	REL
			A4	80010966	LTE 700/850/AWS/5G 850	RMV	RRUS 4449 B5, B12 RRUS 8843 B2/B66A	RMN REL
BETA	107'	140°	B1	CC-HPA-65R-BUU-H8	UMTS 850	RMV	RRUS-11 B5	RMV
			B2	CC-HPA-65R-BUU-H8	LTE WCS	RMN	RRUS-32 B30	REL
			B3	CC-HPA-65R-BUU-H8	LTE 700/1900	RMV	RRUS 4478 B14	REL
			B4	80010966	LTE 700/850/AWS/5G 850	RMV	RRUS 4449 B5, B12 RRUS 8843 B2/B66A	RMN REL
GAMMA	107'	270°	C1	CC-HPA-65R-BUU-H8	UMTS 850	RMV	RRUS-11 B5	RMV
			C2	CC-HPA-65R-BUU-H8	LTE WCS	RMN	RRUS-32 B30	REL
			C3	CC-HPA-65R-BUU-H8	LTE 700/1900	RMV	RRUS 4478 B14	REL
			C4	80010966	LTE 700/850/AWS/5G 850	RMV	RRUS 4449 B5, B12 RRUS 8843 B2/B66A	RMN REL

- 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)

FINAL ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	107'	20°	A1	-	-	-	-	-
			A2	80010966	LTE 700/AWS/5G AWS	RMN	RRUS 4478 B14 RRUS 8843 B2/B66A	REL RMN
			A3	AIR 6419 B77G	5G DOD	ADD	-	-
			A4	AIR 6449 B77D	5G C-BAND	ADD	RRUS 4449 B5, B12 RRUS-32 B30	RMN RMN
BETA	107'	140°	B1	-	-	-	-	-
			B2	80010966	LTE 700/AWS/5G AWS	RMN	RRUS 4478 B14 RRUS 8843 B2/B66A	REL RMN
			B3	AIR 6419 B77G	5G DOD	ADD	-	-
			B4	AIR 6449 B77D	5G C-BAND	ADD	RRUS 4449 B5, B12 RRUS-32 B30	RMN RMN
GAMMA	107'	270°	C1	-	-	-	-	-
			C2	80010966	LTE 700/AWS/5G AWS	RMN	RRUS 4478 B14 RRUS 8843 B2/B66A	REL RMN
			C3	AIR 6419 B77G	5G DOD	ADD	-	-
			C4	AIR 6449 B77D	5G C-BAND	ADD	RRUS 4449 B5, B12 RRUS-32 B30	RMN RMN

EXISTING FIBER DISTRIBUTION/SQUID			EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
(3) FIBER/DC	RMN	-	(8) DC	(3) FIBER	RMN
(1) DC	RMN	-	-	-	-
FINAL FIBER DISTRIBUTION/SQUID			FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
(3) FIBER/DC	RMN	-	(8) DC	(3) FIBER	RMN
(1) DC	RMN	-	-	-	-

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

3 EQUIPMENT SCHEDULES



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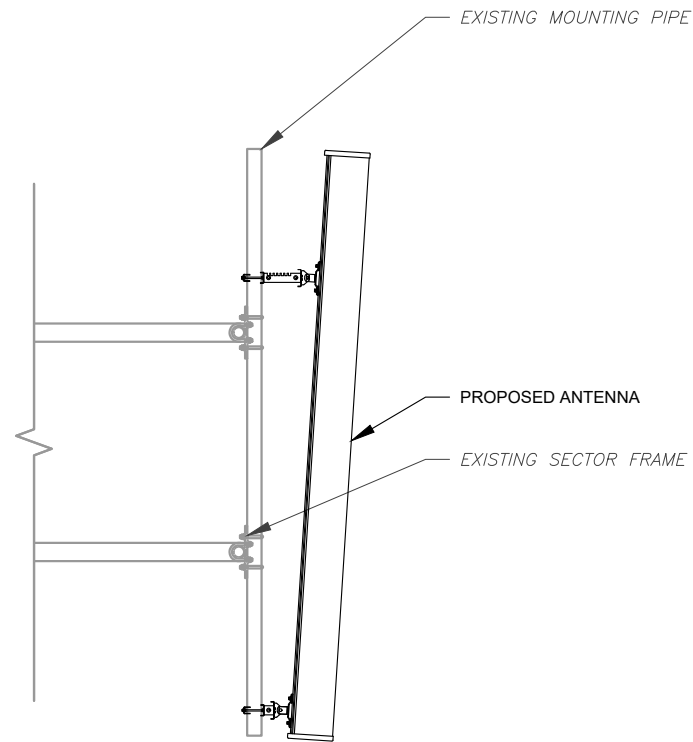


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CUSTOMER #:	10578263

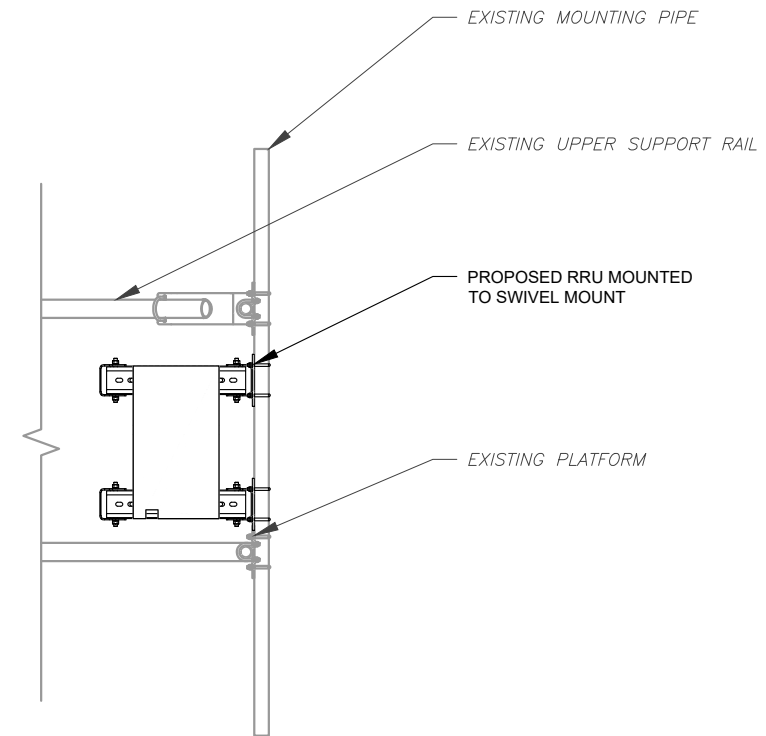
RF SCHEDULE AND ANTENNA INSTALLATION

SHEET NUMBER:	REVISION:
C-401	0

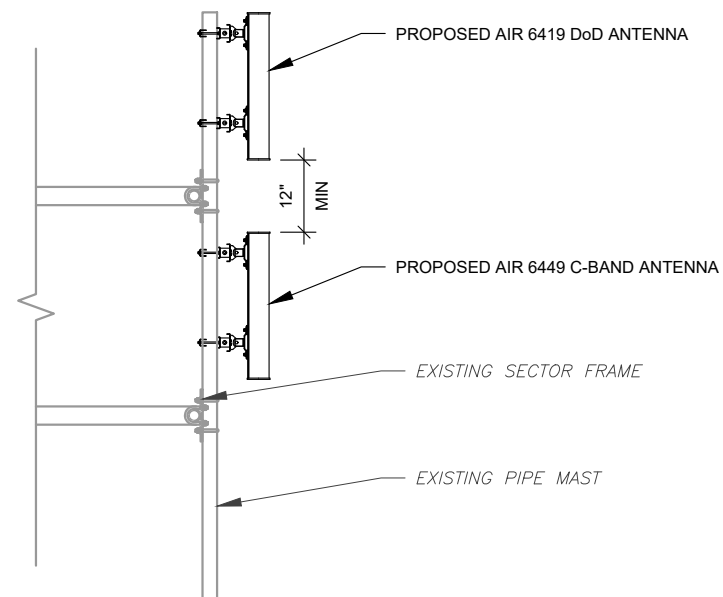
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1 ANTENNA DETAIL
SCALE: N.T.S.



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



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

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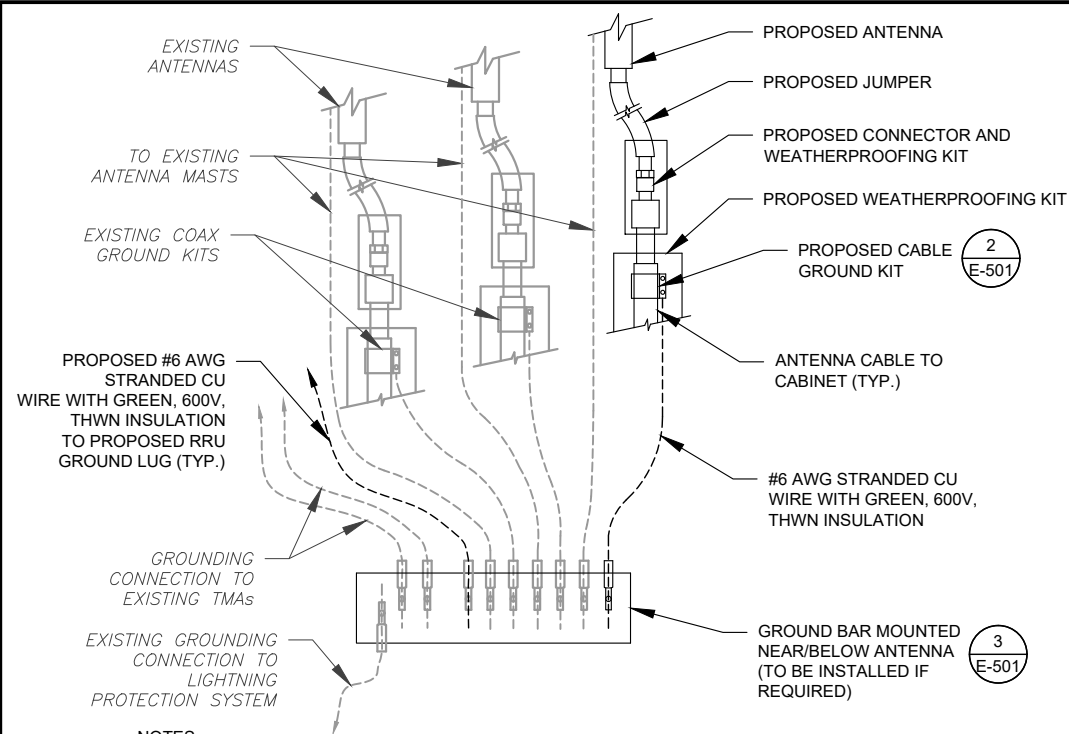
SEAL:



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CONSTRUCTION
DETAILS

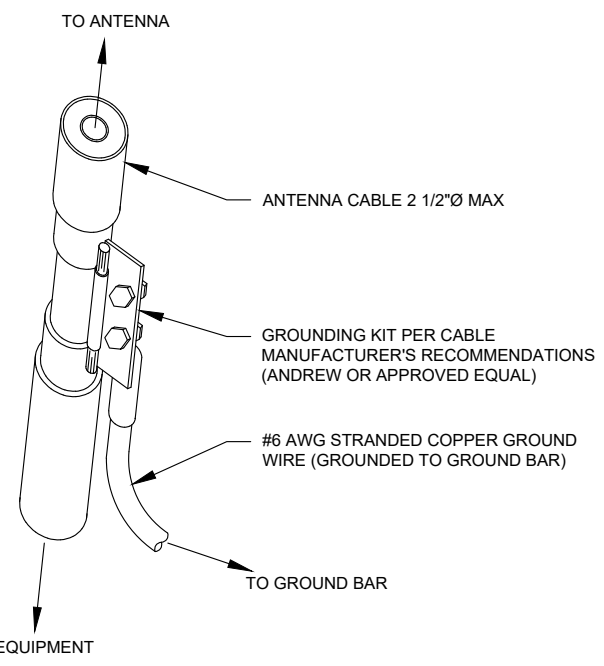
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NOTES:

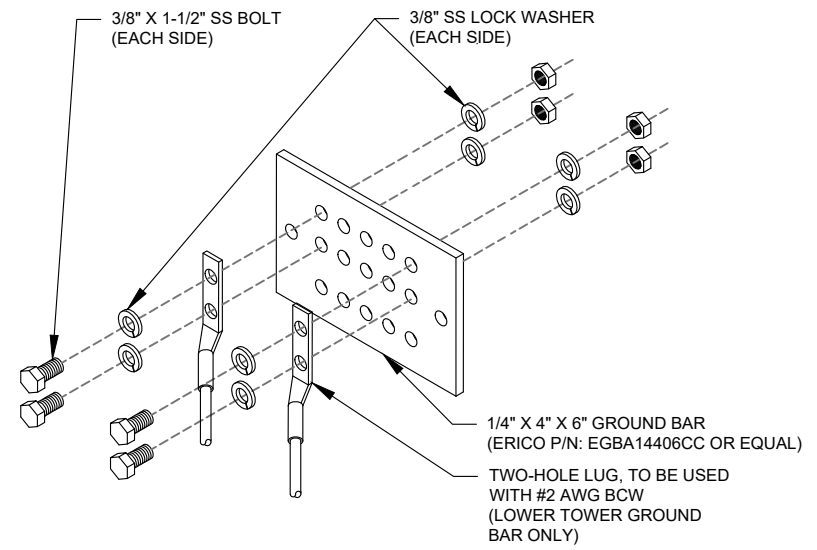
1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH AT&T GROUNDING STANDARDS,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

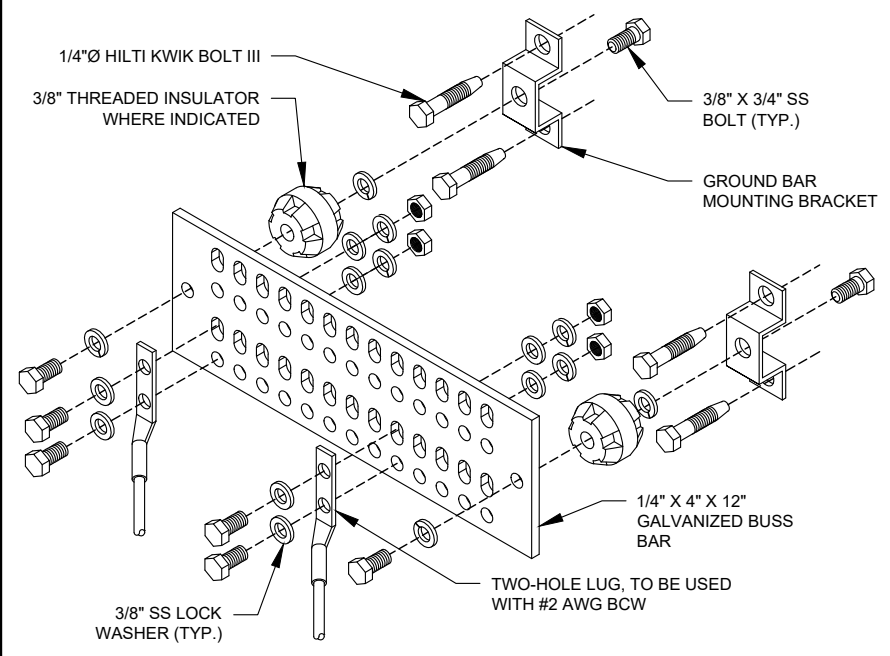
2 CABLE GROUND KIT CONNECTION DETAIL
SCALE: N.T.S.



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.

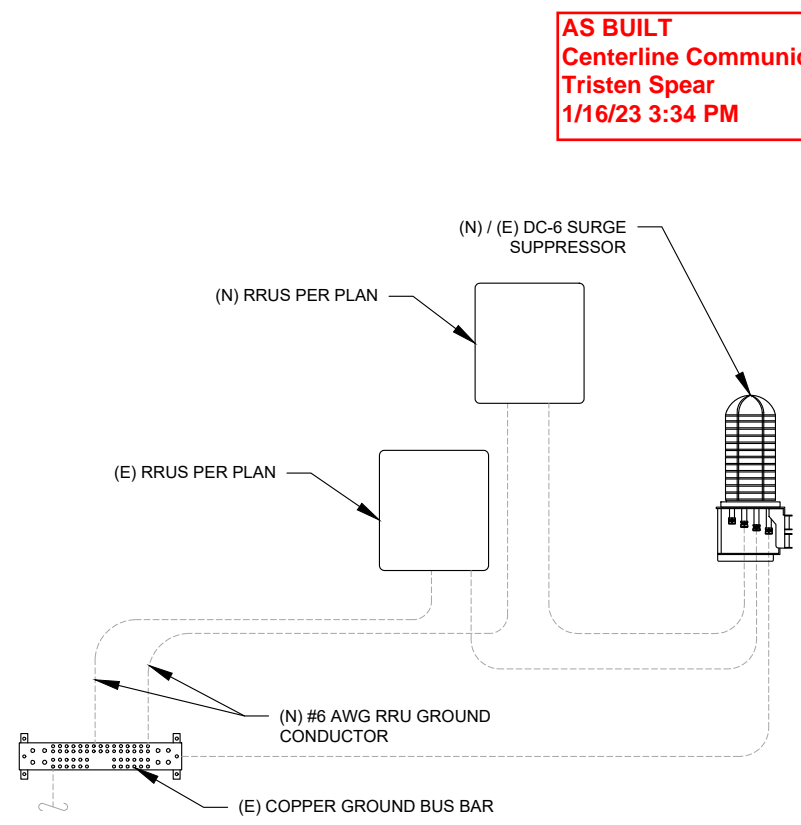
3 TOWER GROUND BAR DETAIL
SCALE: N.T.S.



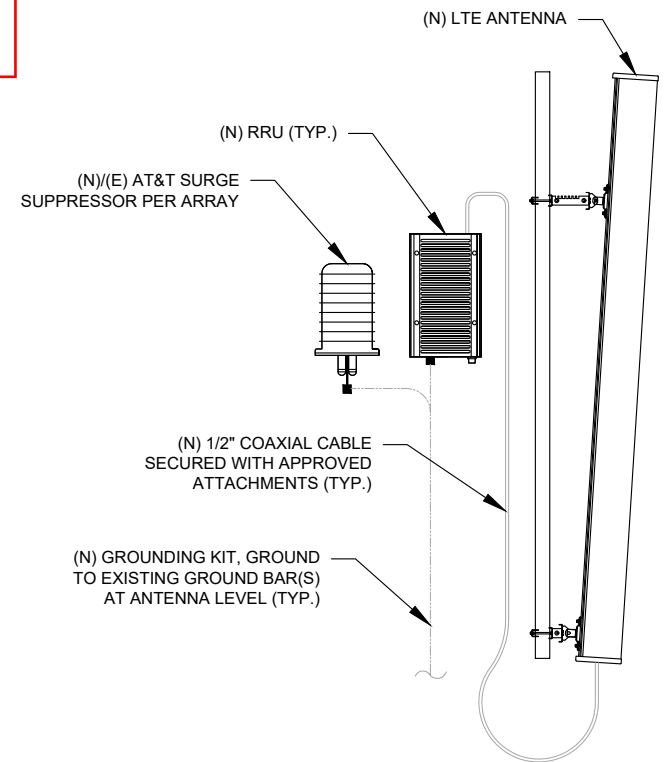
GROUND BAR NOTES

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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GROUNDING DETAILS

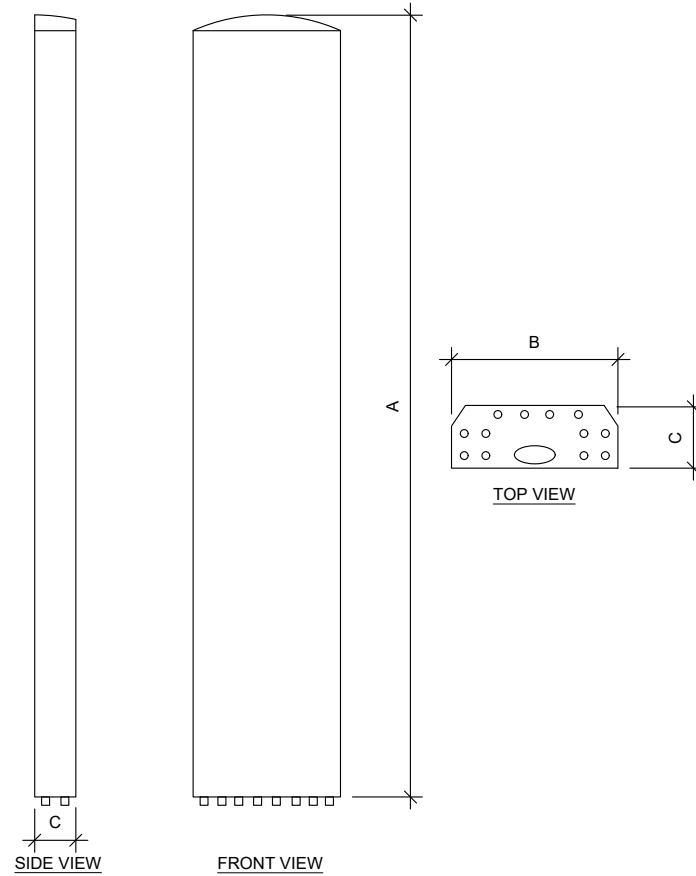
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ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
AIR 6419 B77G	28.3	16.1	7.9	66.1
AIR 6449 B77D	30.4	15.9	8.1	-
DMP65R-BU6DA	71.2	20.7	7.7	79.4



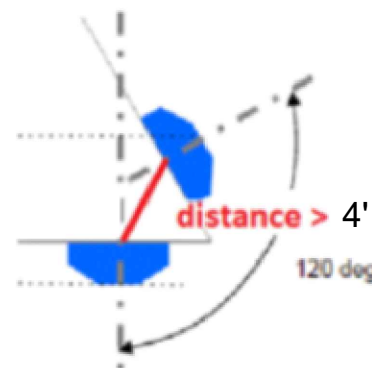
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SUPPLEMENTAL

SHEET NUMBER:
R-601

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.



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- 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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SUPPLEMENTAL

SHEET NUMBER:
R-602



This report was prepared for American Tower Corporation by



Antenna Mount Analysis Report

ATC Site Name : North Haven CT
ATC Asset Number : 283418
Engineering Number : 13683386_C8_01
Mount Elevation : 105 ft
Carrier : AT&T Mobility
Carrier Site Name : MRCTB051593
Carrier Site Number : CT3506
Site Location : 50 Devine Street
 North Haven, CT 06473-2204
 41.377778, -72.8761583
County : New Haven
Date : November 23, 2021
Max Usage : 66%
Result : Contingent Pass*
 *See conclusion for requirements

Prepared By:
 Kowsalya V
 CLS Engineering, PLLC

Reviewed By:
 Tyler M. Barker, P.E.
 CLS Engineering, PLLC



Digitally signed by
 Tyler M. Barker
 DN: cn=Tyler M. Barker, o=CLS Engineering, LLC, ou=CLS Engineering, LLC, email=tyler@clsengineeringpllc.com, c=US

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 May 05, 2020 Spec Sheet by Commscope, Part #MTC3607
Previous Analyses	Tower SA by ATC, Engineering #13693659_C3_03, dated June 24, 2021
Loading Data	ATC Application, Project #13683386, dated November 21, 2021 AT&T RFD\$ ID:4391590, Ver. 2.00, dated October 25, 2021
Modifications	Mount Modification by Hudson Design Group LLC for ATC, Site #283418, Rev. 1, dated April 08, 2019

Analysis

Codes	TIA-222-H
Basic Wind Speed	120 mph, V _w (3-Second Gust)
Basic Wind Speed w/ Ice	50 mph (3-Second Gust) w/ 1" Radial Ice (Escalating)
Exposure Category	C
Topographic Factor Procedure:	Method 2
Feature:	Flat
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Risk Category	II
Maintenance Live Load	L _{wt} : 500 lb
Spectral Response	S _z : 0.20; S _y : 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 following scope is executed:

- Replace existing with (1) proposed RRR pipe 2 STD X 6'-0" Long mount pipe at each sector (3 total) as shown. Connect to stand-off horizontal pipes with (1) Site Pro 1 SP219 cross plate kits at each sector (3 total).
- Install (1) proposed Site Pro 1 UWS6-NP ring mount to monopole and install (2) proposed pipe 2 STD X 8'-0" Long mount pipe at each sector for spare panel configuration (6 total) as shown.

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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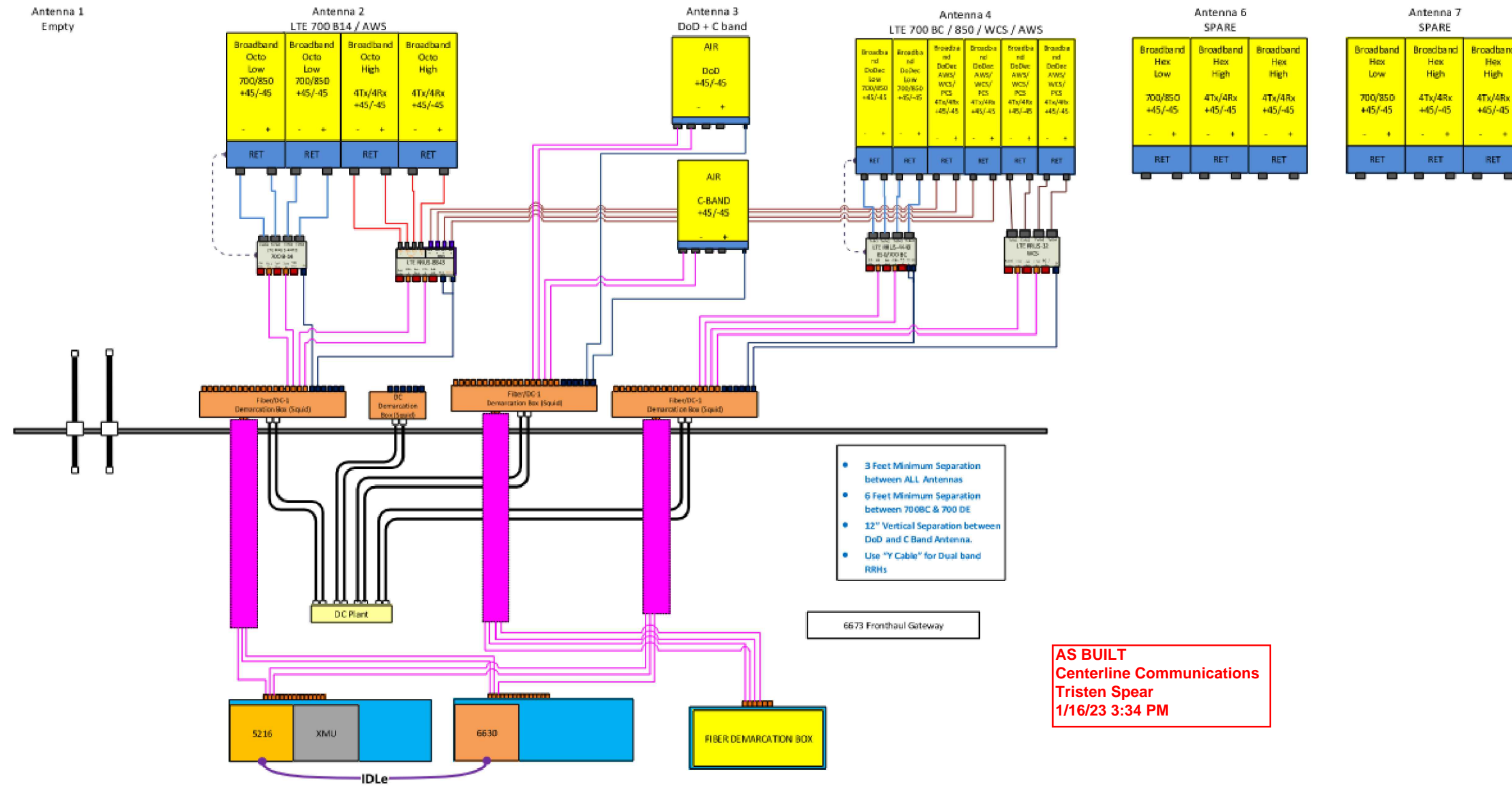
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