

**From:** Jason Blinkhorn <jblinkhorn@qualtekwireless.com>  
**Sent:** Tuesday, February 23, 2021 4:52 PM  
**To:** CSC-DL Siting Council <Siting.Council@ct.gov>; thomas.gullotta@glastonbury-ct.gov;  
richard.johnson@glastonbury-ct.gov  
**Cc:** Corey Michaud <cmichaud@qualtekwireless.com>; Michael Cypranowski  
<mcypranowski@qualtekwireless.com>; John Centore <jcentore@qualtekwireless.com>; Siyuan Liu  
<sliu@qualtekwireless.com>; ATT Closeouts <attcloseouts@empiretelecomm.com>  
**Subject:** CT1124 CSC 2 WEEK NTP REQUEST

EXTERNAL EMAIL: This email originated from outside of the organization. Do not click any links or open any attachments unless you trust the sender and know the content is safe.

Thomas/Richard,

Good afternoon. We received you as CSC POC for a requested 2 week notice prior to construction start. We are looking to start construction 3-15. This is a SBA owned tower and we have also formally submitted an NTP with them for this date as well. Can you please let us know if anything else is needed here before we start?

Alex,

CSC will also require some COP requirements here once we are construction complete as well. CCA is being requested now.

RE: **EM-CING-054-201222** – New Cingular Wireless PCS, LLC (AT&T) notice of intent to modify an existing telecommunications facility located at 175 Dickinson Road, Glastonbury, Connecticut.

Dear Ms. Redding:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

1. Prior to AT&T's antenna installation, the antenna mount modifications shall be installed in accordance with the Mount Analysis prepared by Hudson Design Group, LLC, dated October 9, 2020 and stamped and signed by Daniel Hamm;
2. **Within 45 days following completion of equipment installation, AT&T shall provide documentation certified by a Professional Engineer that its installation complied with the recommendations of the Mount Analysis;**
3. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
4. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
5. **The Council shall be notified in writing at least two weeks prior to the commencement of site construction activities;**
6. **Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;**
7. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by AT&T shall be removed within 60 days of the date the antenna ceased to function;
8. The validity of this action shall expire one year from the date of this letter; and
9. The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

Thank You,

**Jason Blinkhorn** / Project Manager / 401-787-6007 / [jblinkhorn@qualtekwireless.com](mailto:jblinkhorn@qualtekwireless.com)  
16 Esquire Rd, N Billerica MA 01862  
125 Depot St, Bellingham, MA 02019



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STATE OF CONNECTICUT  
*CONNECTICUT SITING COUNCIL*

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)

Web Site: [portal.ct.gov/csc](http://portal.ct.gov/csc)

**VIA ELECTRONIC MAIL**

February 22, 2021

Hollis M. Redding  
SAI Communications, LLC  
12 Industrial Way  
Salem, NH 03079

RE: **EM-CING-054-201222** – New Cingular Wireless PCS, LLC (AT&T) notice of intent to modify an existing telecommunications facility located at 175 Dickinson Road, Glastonbury, Connecticut.

Dear Ms. Redding:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

1. Prior to AT&T's antenna installation, the antenna mount modifications shall be installed in accordance with the Mount Analysis prepared by Hudson Design Group, LLC, dated October 9, 2020 and stamped and signed by Daniel Hamm;
2. Within 45 days following completion of equipment installation, AT&T shall provide documentation certified by a Professional Engineer that its installation complied with the recommendations of the Mount Analysis;
3. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
4. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
5. The Council shall be notified in writing at least two weeks prior to the commencement of site construction activities;
6. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
7. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by AT&T shall be removed within 60 days of the date the antenna ceased to function;
8. The validity of this action shall expire one year from the date of this letter; and
9. The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated December 22, 2020. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below state and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Sincerely,

*s/ Melanie A. Bachman*

Melanie A. Bachman  
Executive Director

MAB/IN/emr

c: The Honorable Thomas P. Gullotta, Chairman, Town of Glastonbury  
([thomas.gullotta@glastonbury-ct.gov](mailto:thomas.gullotta@glastonbury-ct.gov))  
Richard J. Johnson, Town Manager, Town of Glastonbury ([richard.johnson@glastonbury-ct.gov](mailto:richard.johnson@glastonbury-ct.gov))

## Emily Barnes

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**From:** SBA Collocation Portal <collocation@sbsite.com>  
**Sent:** Tuesday, December 22, 2020 1:41 PM  
**To:** Emily Barnes; mluther@sbsite.com; GOneil@sbsite.com; cshorter@sbsite.com; sroth@sbsite.com  
**Subject:** Completed Notice [CT02216-S-05 / Glastonbury : AT&T] / [Tenant ID: CT1124 / GLASTONBURY SOUTH]-Amendment-LTE / APP #: 141477

Notice: sbsite\mluther has marked the application completed.

URL to the completed Amendment application: <https://collocation.sbsite.com/Secure/ViewApp/141477>

Application Version #: 1

**Application is now complete. Tenant may apply for NTP to install equipment at <https://sitentp.sbsite.com>**

Please upload all supporting documentation to NTP Portal for review and approval by SBA Operations RSM. Please submit the following documents:

1. Operations RSM "Stamped" Approved CD's via the SBA Collocation Portal.
2. Passing Structural, Zoning and Permitting Information, along with a copy of this email.

If this information is not submitted, NTP will be Rejected.

Please allow up to 2 weeks for the fully executed documents to be returned, they are now being routed through our internal processing. Thank you!

**Note: All Contractors must be registered and approved with Avetta (<https://organizer.avetta.com/Registration.action>) to perform work on any SBA site.**



State of Connecticut  
**TOWN OF GLASTONBURY**  
2155 Main Street P.O Box 6523 Glastonbury  
, CT 06033  
Phone: (860) 652-7521

## PERMIT TO BUILD

Date: 01/11/2021

Fee: \$888.00

Permit No: **B-20-1524**

Parent Pin:

Owner Name: CHAPMAN RANDALL S+ BRONZI KARRIE-LYNNE

Building Location: 175 DICKINSON RD, ,

Type of Work: Commercial Alter

Type of Occupancy: Public Building

This certifies that CHAPMAN RANDALL S+ BRONZI KARRIE-LYNNE has permission to erect, alter or demolish a building on:

**Work Description:** AT&T Wireless to replace 6 antennas & 6 remove radio units with newer models at its wireless communication facility. Various equipment changes are propose in the existing shelter.

provided that the person accepting this permit shall in every respect conform to the terms of the application therefore on file in this office, and to the provisions of ordinances relating to the Inspection, Alteration and Construction of Buildings in the Town of Glastonbury.

Agent Name: HOLLIS REDDING

Agent Phone: (860)834-6964

Address: 39 WESTVIEW DR, MERIDEN, CT 06450-4723

Contractor Name: QUALTEK WIRELESS Contractor Phone: (201)621-2584

Contractor Address: 1150 1ST AVE STE 600, KING OF PRUSSIA, PA 19406

License Type:

License No: 904150

License Exp: 06/30/2021

NOTE: The recipient of this permit accepts this permit on the condition that, as owner or as agent of the owner, he/she agrees to comply with all Building & Zoning Ordinances of the Town of Glastonbury & the State Statutes of the State of Connecticut regarding the use, occupancy & type of building to be constructed, added to, demolished, or altered. The recipient also agrees that this building is to be located the proper distance from all street lines, side yard lines & required distances from all other zones & is located in a zone in which the building & its use is allowed. Additional conditions listed below:

Building Official Signature

01/11/2021

Date

**PROJECT INFORMATION**

SCOPE OF WORK: **ITEMS TO BE MOUNTED ON THE EXISTING MONOPOLE:**

- NEW AT&T ANTENNAS: DMP65R-BU6DA (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T ANTENNAS: HPA-65R-BU6AA (TYP. OF 1 PER SECTOR, TOTAL OF 3) (TYP. OF 1 PER SECTOR, TOTAL OF 3) (TO BE RELOCATED TO POS. 3)
- NEW AT&T RRUS: B5/B12 4449 (850/700) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T RRUS: 8843 B2/B66A (PCS/AWS) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW Y CABLES (TYP. OF 2 PER SECTOR, TOTAL OF 6).
- MOVE EXISTING UMS RET SMART BIAS TS FROM GSM LINES TO UMS LINES.
- NEW AT&T (2) 1" DC TRUNKS TO REPLACE EXISTING.
- PROPOSED MOUNT MODS (SEE S-1 SHEET).

**ITEMS TO BE MOUNTED AT EQUIPMENT LOCATION:**

- NEW AT&T SURGE ARRESTOR: TSXDC-4310FM (TYP. OF 4 PER ALPHA & GAMMA SECTORS, TOTAL OF 8).
- NEW AT&T RRUS: B14 4478 (700) (TYP. OF 1 PER ALPHA & GAMMA SECTORS, TOTAL OF 2) (ALPHA & BETA WILL SHARE).
- ADD (1) RBS 6630 FOR 5G.
- INSTALL (1) IDLE.
- INSTALL NEW NETSURE 7100 WITH 3 STR BATT, ADD (1) ARGUS SHELF (TO REPLACE EXISTING)
- INSTALL NEW FIF RACK.

**ITEMS TO BE REMOVED:**

- EXISTING AT&T ANTENNAS: 7770 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T ANTENNAS: HPA-65R-BUU-H6 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T RRUS: RRUS-11 B12 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T RRUS: RRUS-32 B2 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T DIPLEXER LGP21901 (TYP. OF 4 PER SECTOR, TOTAL OF 12).

**ITEMS TO REMAIN:**

- (3) ANTENNAS, (6) TMA'S (1) SURGE ARRESTOR, (6) DIPLEXERS, (12) COAX CABLES, & (1) FIBER.

SITE ADDRESS: 175 DICKINSON ROAD  
MARLBOROUGH, CT 06073

LATITUDE: 41.655895° N, 41° 39' 21.22" N  
LONGITUDE: 72.523271° W, 72° 31' 23.77" W

TYPE OF SITE: MONOPOLE / INDOOR

STRUCTURE HEIGHT: 180'-0"±  
RAD CENTER: 137'-0"±  
CURRENT USE: TELECOMMUNICATIONS FACILITY  
PROPOSED USE: TELECOMMUNICATIONS FACILITY



SITE NUMBER: CT1124

SITE NAME: GLASTONBURY SOUTH

FA CODE: 10042319

PACE ID: MRCTB048925, MRCTB048957, MRCTB048879, MRCTB048900

PROJECT: LTE 3C\_4C\_4TX4RX\_5G 2020 UPGRADE

DRAWING INDEX		
SHEET NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	0
GN-1	GENERAL NOTES	0
A-1	COMPOUND & EQUIPMENT PLANS	0
A-2	ANTENNA LAYOUTS & ELEVATION	0
A-3	DETAILS	0
SN-1	STRUCTURAL NOTES	0
S-1	MOUNT MODIFICATION DESIGN	0
G-1	GROUNDING DETAILS	0
RF-1	RF PLUMBING DIAGRAM	0

**VICINITY MAP**

**DIRECTIONS TO SITE:**

GET ON I-93 S FROM INDUSTRIAL WAY AND MANOR PKWY, HEAD SOUTHEAST TOWARD INDUSTRIAL WAY, TURN LEFT AT THE 1ST CROSS STREET ONTO INDUSTRIAL WAY, TURN RIGHT ONTO MANOR PKWY, TURN LEFT ONTO PELHAM RD, USE THE RIGHT LANE TO MERGE ONTO I-93 S VIA THE RAMP TO METHUEN, DRIVE FROM I-495 S, I-290 W, I-90 W AND I-84 TO GLASTONBURY. TAKE EXIT 10 FROM CT-2 E, MERGE ONTO I-93 S, ENTERING MASSACHUSETTS, TAKE EXIT 44B TO MERGE ONTO I-495 S TOWARD LOWELL, TAKE EXIT 25B TO MERGE ONTO I-290 W TOWARD WORCESTER, TAKE EXIT 7 FOR I-90/MASS. PIKE, (TOLL ROAD), KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR I-90 W/SPRINGFIELD/ALBANY AND MERGE ONTO I-90 W, (TOLL ROAD), USE THE RIGHT 2 LANES TO TAKE EXIT 9 FOR I-84 TOWARD HARTFORD CT/NEW YORK CITY, (TOLL ROAD), CONTINUE ONTO I-84, (TOLL ROAD), ENTERING CONNECTICUT, USE THE LEFT LANE TO TAKE EXIT 55 FOR CT-2 E TOWARD NORWICH, CONTINUE ONTO CT-2 E, TAKE EXIT 10 FOR CT-83 TOWARD E GLASTONBURY/MANCHESTER, TAKE WASSUC RD, COUNTRY CLUB RD AND MOTT HILL RD TO DICKINSON RD, TURN RIGHT ONTO CT-83 S/MANCHESTER RD, TURN LEFT ONTO NEW LONDON TURNPIKE, CONTINUE ONTO WASSUC RD, TURN RIGHT ONTO COUNTRY CLUB RD, TURN LEFT ONTO MOTT HILL RD, SLIGHT LEFT ONTO DICKINSON RD



**GENERAL NOTES**

1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
2. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T MOBILITY REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
4. CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN.

**SBA SITE NAME: CT02216**  
**SBA SITE #: 1222500**

**72 HOURS**

**CALL BEFORE YOU DIG**

CALL TOLL FREE 1-800-922-4455  
OR CALL 811

**UNDERGROUND SERVICE ALERT**

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

12 INDUSTRIAL WAY  
SALEM, NH 03079

SITE NUMBER: CT1124  
SITE NAME: GLASTONBURY SOUTH  
SBA SITE # ID: 1222500

175 DICKINSON ROAD  
MARLBOROUGH, CT 06073  
HARTFORD COUNTY

500 ENTERPRISE DRIVE, SUITE 3A  
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
0	12/15/20	ISSUED FOR REVIEW	CA	OPH	
A	10/13/20	ISSUED FOR REVIEW	AR	HC	OPH

SCALE: AS SHOWN    DESIGNED BY: HC    DRAWN BY: AR

AT&T

TITLE SHEET  
LTE 3C\_4C\_4TX4RX\_5G 2020 UPGRADE

SITE NUMBER	DRAWING NUMBER	REV
CT1124	T-1	0



**GROUNDING NOTES**

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81 STANDARDS) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS AND #2 AWG STRANDED COPPER FOR OUTDOOR BTS.
6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO GROUND BAR.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
11. METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50

**GENERAL NOTES**

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:  
 CONTRACTOR – SAI  
 SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)  
 OWNER – AT&T MOBILITY
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.

14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCH UP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
16. CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T SITES."
17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
20. **APPLICABLE BUILDING CODES:**  
 SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

**BUILDING CODE: IBC 2015 WITH 2018 CT STATE BUILDING CODE AMENDMENTS  
 ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE (NFPA 70-2017)**

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

**AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;**

**AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION;**

**TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARDS FOR STEEL**

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

**ABBREVIATIONS**

AGL	ABOVE GRADE LEVEL	EQ	EQUAL	REQ	REQUIRED
AWG	AMERICAN WIRE GAUGE	GC	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
BBU	BATTERY BACKUP UNIT	GRC	GALVANIZED RIGID CONDUIT	TBD	TO BE DETERMINED
BTCW	BARE TINNED SOLID COPPER WIRE	MGB	MASTER GROUND BAR	TBR	TO BE REMOVED
BGR	BURIED GROUND RING	MIN	MINIMUM	TBRR	TO BE REMOVED AND REPLACED
BTS	BASE TRANSCEIVER STATION	P	PROPOSED	TYP	TYPICAL
E	EXISTING	NTS	NOT TO SCALE	UG	UNDER GROUND
EGB	EQUIPMENT GROUND BAR	RAD	RADIATION CENTER LINE (ANTENNA)	VIF	VERIFY IN FIELD
EGR	EQUIPMENT GROUND RING	REF	REFERENCE		

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

12 INDUSTRIAL WAY  
SALEM, NH 03079

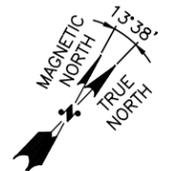
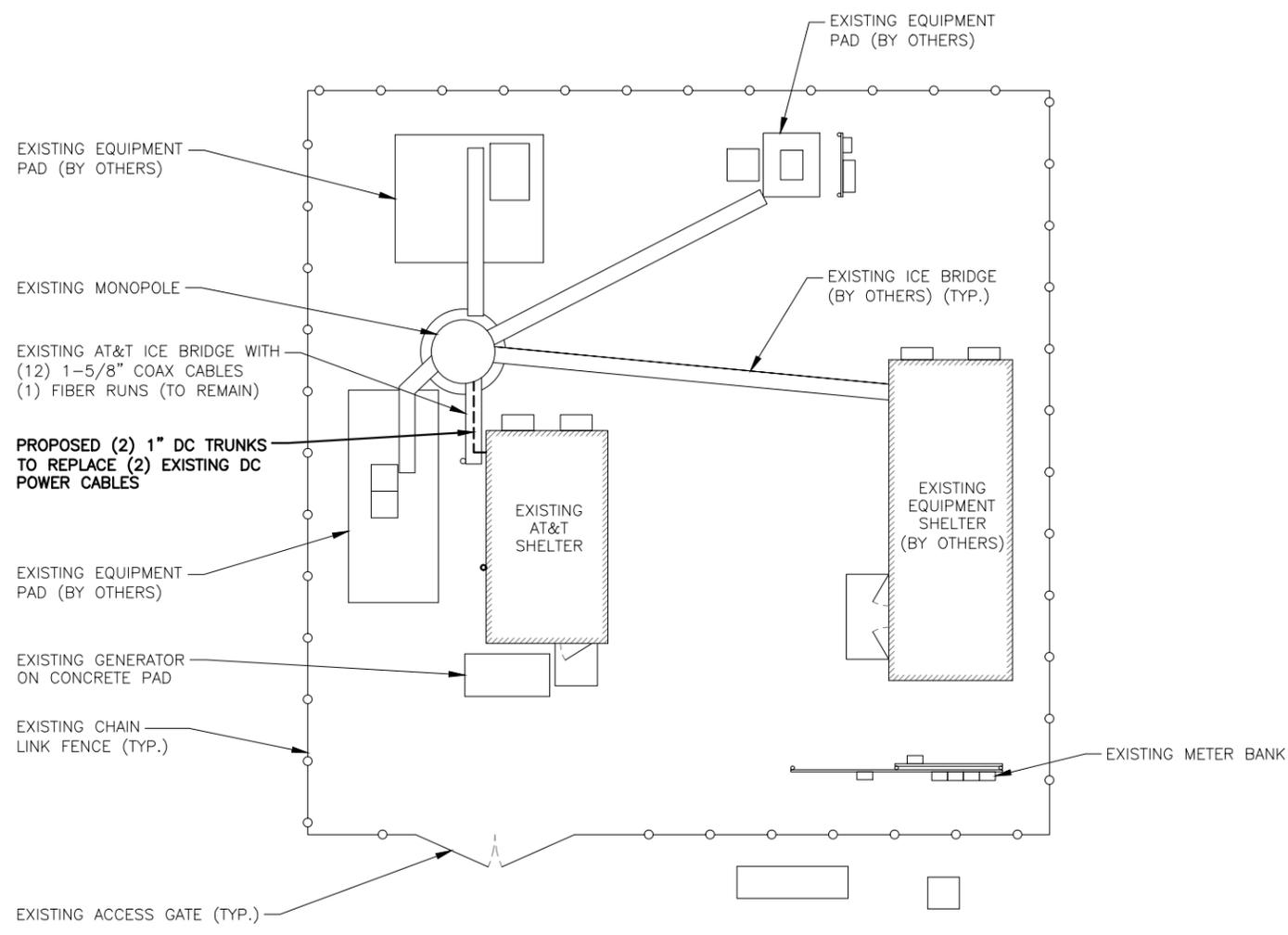
SITE NUMBER: CT1124  
 SITE NAME: GLASTONBURY SOUTH  
 SBA SITE # ID: 1222500  
 175 DICKINSON ROAD  
 MARLBOROUGH, CT 06073  
 HARTFORD COUNTY

500 ENTERPRISE DRIVE, SUITE 3A  
ROCKY HILL, CT 06067

NO.		DATE	REVISIONS	BY	CHK	APP'D	SCALE: AS SHOWN		DESIGNED BY: HC	DRAWN BY: AR	AT&T		
0	12/15/20		ISSUED FOR REVIEW								GENERAL NOTES		
A	10/13/20		ISSUED FOR REVIEW								LTE 3C_4C_4TX4RX_5G 2020 UPGRADE		
SITE NUMBER		DRAWING NUMBER		REV		SCALE		DESIGNED BY		DRAWN BY		DATE	
CT1124		GN-1		0									

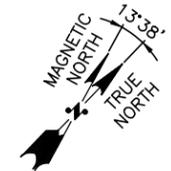
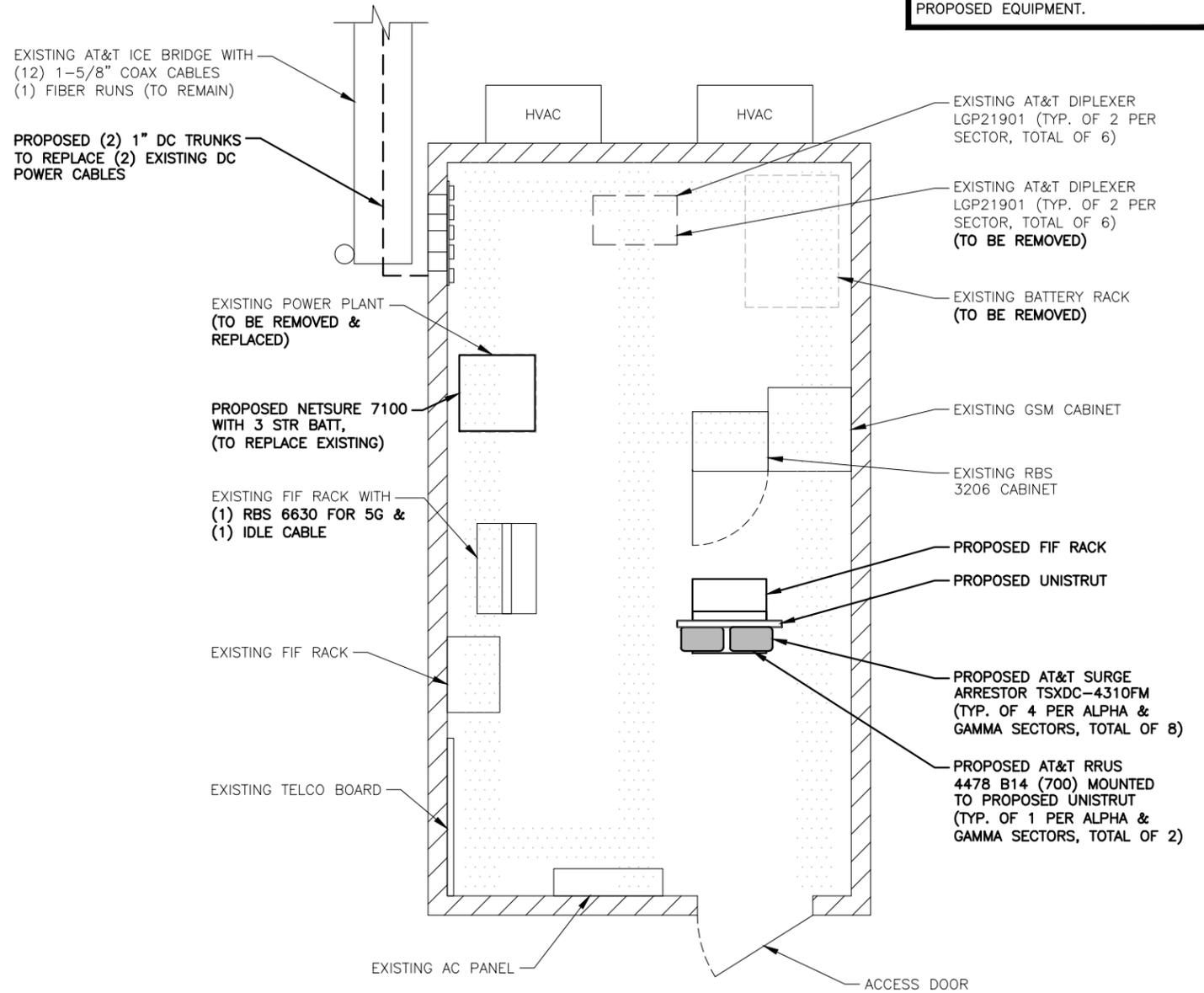
**NOTE:**  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

**NOTE:**  
REFER TO **STRUCTURAL ANALYSIS** BY: SBA DATED: DECEMBER 2, 2020 FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.



**COMPOUND PLAN**  
22x34 SCALE: 1/8"=1'-0"  
11x17 SCALE: 1/16"=1'-0"

1  
A-1



**EQUIPMENT PLAN**  
22x34 SCALE: 1/2"=1'-0"  
11x17 SCALE: 1/4"=1'-0"

2  
A-1



**HDG HUDSON Design Group LLC**  
45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845  
TEL: (978) 557-5553 FAX: (978) 336-5586

**SAI**  
12 INDUSTRIAL WAY SALEM, NH 03079

SITE NUMBER: CT1124  
SITE NAME: GLASTONBURY SOUTH  
SBA SITE # ID: 1222500  
175 DICKINSON ROAD MARLBOROUGH, CT 06073 HARTFORD COUNTY

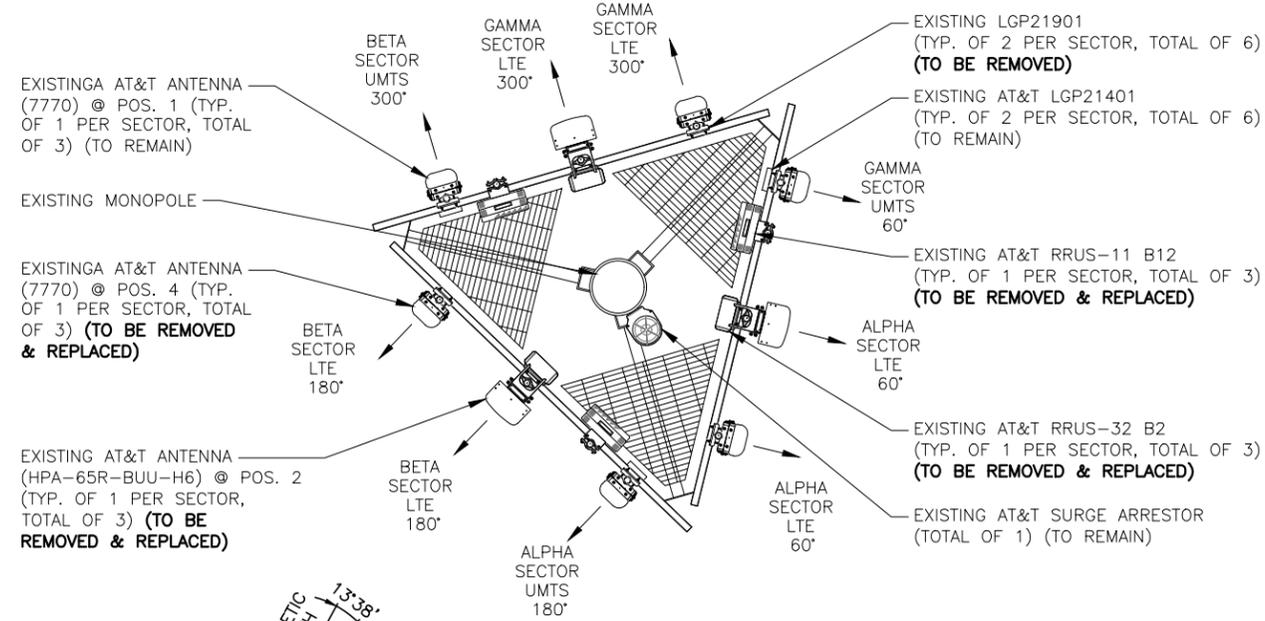
**at&t**  
500 ENTERPRISE DRIVE, SUITE 3A ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
0	12/15/20	ISSUED FOR REVIEW	CA	OPH	
A	10/13/20	ISSUED FOR REVIEW	AR	HC	OPH

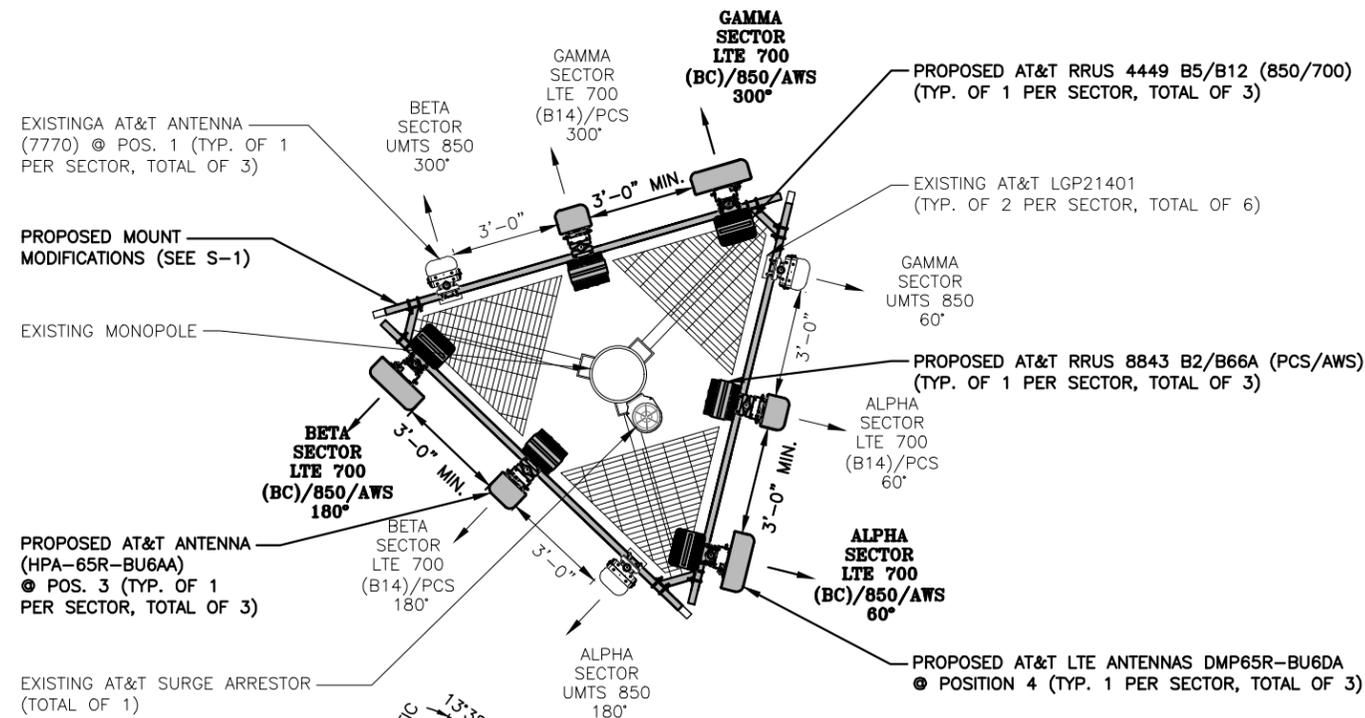
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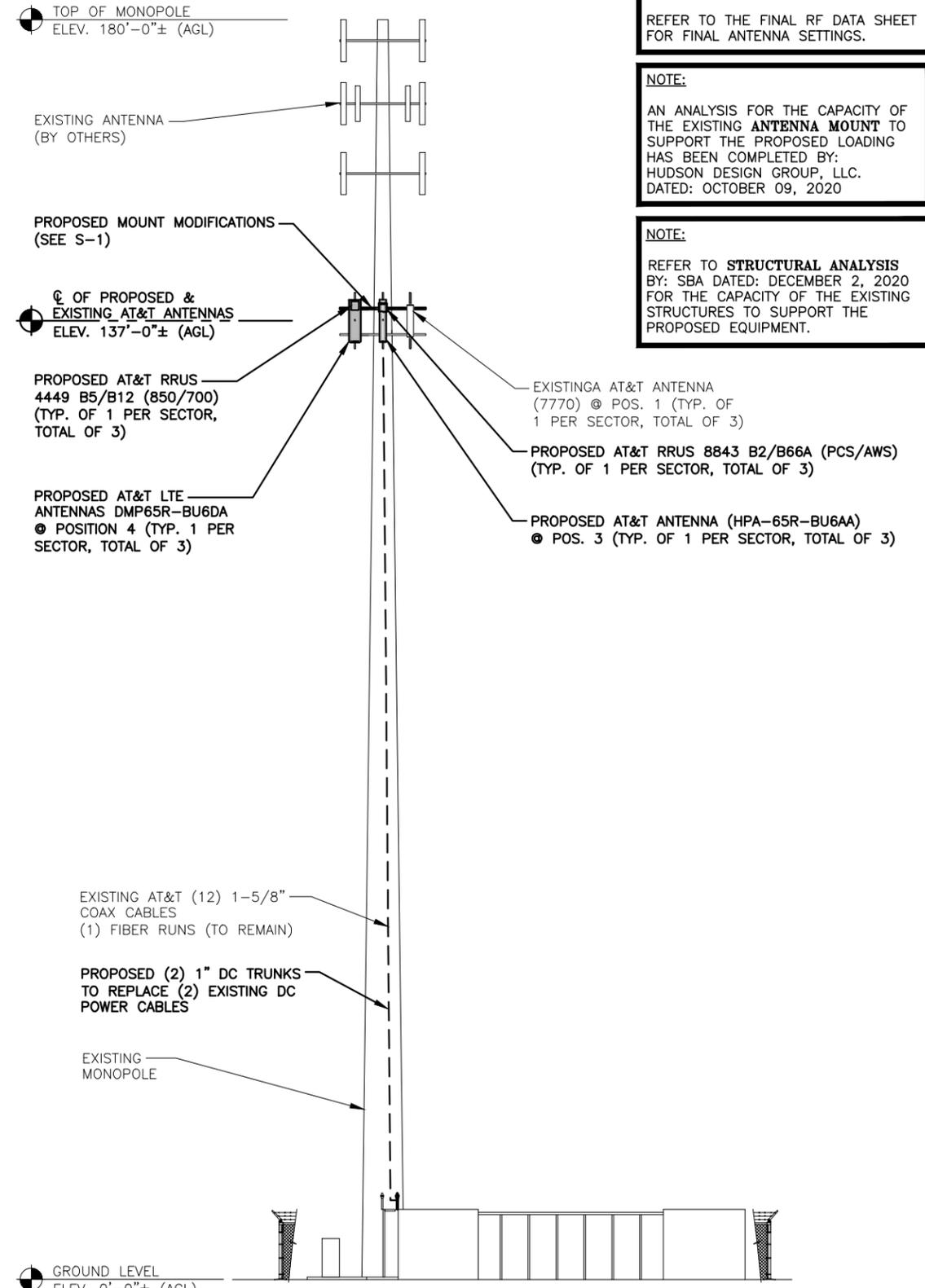
**AT&T**  
COMPOUND & EQUIPMENT PLANS  
LTE 3C\_4C\_4TX4RX\_5G 2020 UPGRADE  
SITE NUMBER: CT1124 DRAWING NUMBER: A-1 REV: 0



**EXISTING ANTENNA LAYOUT** 1  
SCALE: N.T.S. A-2



**PROPOSED ANTENNA LAYOUT** 2  
SCALE: N.T.S. A-2



**ELEVATION** 3  
22x34 SCALE: 3/32"=1'-0" A-2  
11x17 SCALE: 3/64"=1'-0" 0' 5'-4" 10'-8" 21'-4" 32'-0"

**NOTE:**  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

**NOTE:**  
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY: HUDSON DESIGN GROUP, LLC. DATED: OCTOBER 09, 2020

**NOTE:**  
REFER TO **STRUCTURAL ANALYSIS** BY: SBA DATED: DECEMBER 2, 2020 FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.

**HDG HUDSON Design Group LLC**  
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TEL: (978) 557-5553 FAX: (978) 336-5586

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12 INDUSTRIAL WAY SALEM, NH 03079

SITE NUMBER: CT1124  
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**at&t**  
500 ENTERPRISE DRIVE, SUITE 3A ROCKY HILL, CT 06067

NO.		DATE	REVISIONS	BY	CHK	APP'D	AT&T ANTENNA LAYOUTS & ELEVATION	
0	12/15/20		ISSUED FOR REVIEW	CA	OPH		LTE 3C_4C_4TX4RX_5G 2020 UPGRADE	
A	10/13/20		ISSUED FOR REVIEW	AR	HC	OPH	SITE NUMBER: CT1124	
SCALE: AS SHOWN		DESIGNED BY: HC		DRAWN BY: AR		DRAWING NUMBER: A-2		REV: 0

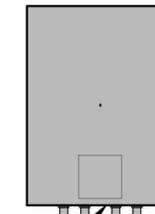
**ANTENNA SCHEDULE**

SECTOR	EXISTING/PROPOSED	BAND	ANTENNA	SIZE (INCHES) (L x W x D)	ANTENNA CL HEIGHT	AZIMUTH	TMA/ DIPLEXER	RRU	FREQUENCY	SIZE (INCHES) (L x W x D)	FEEDER	RAYCAP
A1	EXISTING	UMTS 850	7770	55X11X5	137'-0"±	180°	(2)(E) LGP21401 (2)(E)(G) LGP21901	-	-	-	(2)1-5/8 COAX	(E) (1) RAYCAP DC6-48-60-18-8F
A2	-	-	-	-	-	-	-	-	-	-	-	
A3	PROPOSED	LTE 700 (B14)/PCS	HPA-65R-BU6AA	71.2x11.7x8.4	137'-0"±	60°	-	(1)(P)(G) 4478 B14 (1)(P) 8843 B2/B66A	(700) (PCS/AWS)	18.1x13.4x8.3 14.9x13.2x10.9	(2)1-5/8 COAX	
A4	PROPOSED	LTE 700 (BC)/850/AWS	DMP65R-BU6DA	71.2x20.7x7.7	137'-0"±	60°	-	(1)(P) 4449 B5/B12	(850/700)	17.9x13.2x10.4	(2)(P) DC POWER (1)(E) FIBER	
B1	EXISTING	UMTS 850	7770	55X11X5	137'-0"±	300°	(2)(E) LGP21401 (2)(E)(G) LGP21901	-	-	-	(2)1-5/8 COAX	1
B2	-	-	-	-	-	-	-	-	-	-	-	
B3	PROPOSED	LTE 700 (B14)/PCS	HPA-65R-BU6AA	71.2x11.7x8.4	137'-0"±	180°	-	(1)(P) 8843 B2/B66A	(PCS/AWS)	14.9x13.2x10.9	(2)1-5/8 COAX	
B4	PROPOSED	LTE 700 (BC)/850/AWS	DMP65R-BU6DA	71.2x20.7x7.7	137'-0"±	180°	-	(1)(P) 4449 B5/B12	(850/700)	17.9x13.2x10.4	-	
C1	EXISTING	UMTS 850	7770	55X11X5	137'-0"±	60°	(2)(E) LGP21401 (2)(E)(G) LGP21901	-	-	-	(2)1-5/8 COAX	1
C2	-	-	-	-	-	-	-	-	-	-	-	
C3	PROPOSED	LTE 700 (B14)/PCS	HPA-65R-BU6AA	71.2x11.7x8.4	137'-0"±	300°	-	(1)(P)(G) 4478 B14 (1)(P) 8843 B2/B66A	(700) (PCS/AWS)	18.1x13.4x8.3 14.9x13.2x10.9	(2)1-5/8 COAX	
C4	PROPOSED	LTE 700 (BC)/850/AWS	DMP65R-BU6DA	71.2x20.7x7.7	137'-0"±	300°	-	(1)(P) 4449 B5/B12	(850/700)	17.9x13.2x10.4	-	

**RRU CHART**

QUANTITY	MODEL	SIZE (L x W x D)
3(P)	4449 (850/700)	17.9"x13.2"x10.4"
3(P)	8843 (PCS/AWS)	14.9"x13.2"x10.9"
2(P)	4478 B14 (700)	18.1"x13.4"x8.3"

NOTE:  
MOUNT PER MANUFACTURER'S SPECIFICATIONS



NOTE:  
SEE RFDS FOR RRH  
FREQUENCY AND  
MODEL NUMBER

PROPOSED RRU REFER TO THE  
FINAL RFDS AND CHART FOR  
QUANTITY, MODEL AND DIMENSIONS

NOTE:  
MOUNT PER MANUFACTURER'S  
SPECIFICATIONS.

**PROPOSED RRUS DETAIL**  
SCALE: N.T.S



**NOTE:**

REFER TO THE FINAL RF DATA SHEET  
FOR FINAL ANTENNA SETTINGS.

**NOTE:**

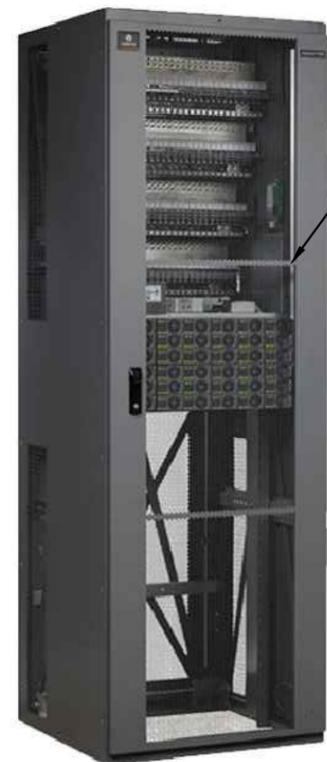
AN ANALYSIS FOR THE CAPACITY OF  
THE EXISTING **ANTENNA MOUNT**  
TO SUPPORT THE PROPOSED LOADING  
HAS BEEN COMPLETED BY:  
HUDSON DESIGN GROUP, LLC.  
DATED: OCTOBER 09, 2020

**NOTE:**

REFER TO **STRUCTURAL ANALYSIS**  
BY: SBA DATED: DECEMBER 2, 2020  
FOR THE CAPACITY OF THE EXISTING  
STRUCTURES TO SUPPORT THE  
PROPOSED EQUIPMENT.

**FINAL ANTENNA SCHEDULE**

SCALE: N.T.S



PROPOSED NETSURE 7100  
WITH 3 STR BATT,  
(TO REPLACE EXISTING)

**PROPOSED NETSURE 7100  
POWER PLANT DETAIL**

SCALE: N.T.S



PROPOSED 19" FIF RACK

PROPOSED UNISTRUT (TYP.)

PROPOSED AT&T RRUS  
4478 B14 (700) MOUNTED  
TO PROPOSED UNISTRUT  
(TYP. OF 1 PER ALPHA &  
GAMMA SECTORS, TOTAL OF 2)

PROPOSED AT&T SURGE  
ARRESTOR TSXDC-4310FM  
(TYP. OF 4 PER ALPHA &  
GAMMA SECTORS, TOTAL OF 8)

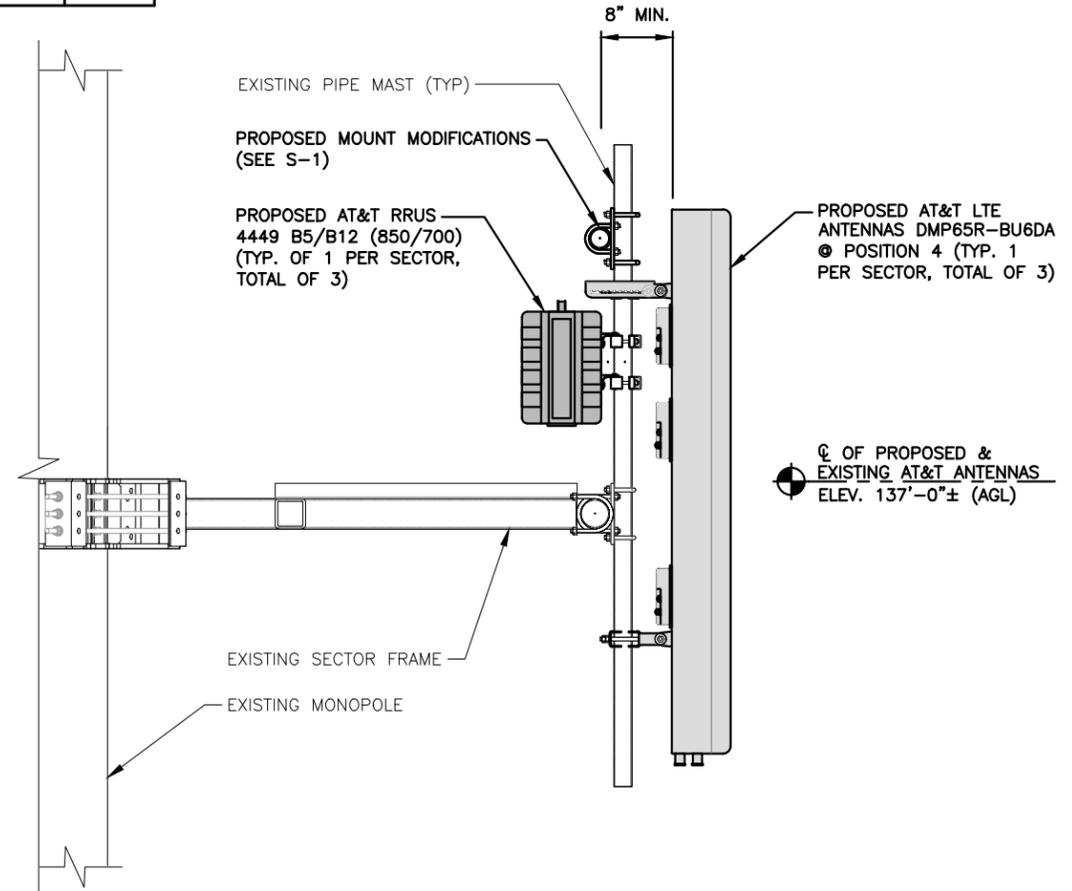
PROPOSED 5/8"Ø  
HILTI KWIK BOLT  
- TZ (TYP.  
-NEW RACK ONLY)

84"

EXISTING FLOOR

**PROPOSED FIF RACK DETAIL**

SCALE: N.T.S



**PROPOSED LTE ANTENNA  
MOUNTING DETAIL**

22x34 SCALE: 1"=1'-0"  
11x17 SCALE: 1/2"=1'-0"



**STRUCTURAL NOTES:**

- DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, INTERNATIONAL BUILDING CODE, EIA/TIA-222-H STRUCTURAL STANDARDS FOR STEEL ANTENNA, TOWERS AND ANTENNA SUPPORTING STRUCTURES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD.
- DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 (Fy=50 ksi), MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE INDICATED.
- STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
- STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 TYPE-X "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 3/4" DIA UON.
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZIRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
- CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND D.I.I. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "STEEL CONSTRUCTION MANUAL". 14TH EDITION.
- INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
- UNISTRUT SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP., WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
- EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS, AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-270 AND OR HY-200 SYSTEMS (AS SPECIFIED IN DWG.) OR ENGINEERS APPROVED EQUAL.
- EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT III OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.
- WHERE ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE RELATED WORK WITH THE BUILDING OWNER AND THE EXISTING ROOF INSTALLER. WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT VOID THE EXISTING ROOF WARRANTY. ROOF SHALL BE WATERTIGHT.
- ALL FIBERGLASS MEMBERS USED ARE AS MANUFACTURED BY STRONGWELL COMPANY OF BRISTOL, VA 24203. ALL DESIGN CRITERIA FOR THESE MEMBERS IS BASED ON INFORMATION PROVIDED IN THE DESIGN MANUAL. ALL REQUIREMENTS PUBLISHED IN SAID MANUAL MUST BE STRICTLY ADHERED TO.
- NO MATERIALS TO BE ORDERED AND NO WORK TO BE COMPLETED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED IN WRITING.
- SUBCONTRACTOR SHALL FIREPROOF ALL STEEL TO PRE-EXISTING CONDITIONS.

**SPECIAL INSPECTIONS (REFERENCE IBC CHAPTER 17):**

**GENERAL:** WHERE APPLICATION IS MADE FOR CONSTRUCTION, THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE INSPECTION CHECKLIST ABOVE.

THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND ENGINEERS OF RECORD INVOLVED IN THE DESIGN OF THE PROJECT ARE PERMITTED TO ACT AS THE APPROVED AGENCY AND THEIR PERSONNEL ARE PERMITTED TO ACT AS THE SPECIAL INSPECTOR FOR THE WORK DESIGNED BY THEM, PROVIDED THOSE PERSONNEL MEET THE QUALIFICATION REQUIREMENTS.

STATEMENT OF SPECIAL INSPECTIONS: THE APPLICANT SHALL SUBMIT A STATEMENT OF SPECIAL INSPECTIONS PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IN ACCORDANCE WITH SECTION 107.1 AS A CONDITION FOR ISSUANCE. THIS STATEMENT SHALL BE IN ACCORDANCE WITH SECTION 1705.

REPORT REQUIREMENT: SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS SHALL BE SUBMITTED.

SPECIAL INSPECTION CHECKLIST	
BEFORE CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
N/A	ENGINEER OF RECORD APPROVED SHOP DRAWINGS <sup>1</sup>
N/A	MATERIAL SPECIFICATIONS REPORT <sup>2</sup>
N/A	FABRICATOR NDE INSPECTION
N/A	PACKING SLIPS <sup>3</sup>
ADDITIONAL TESTING AND INSPECTIONS:	
DURING CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	STEEL INSPECTIONS
N/A	HIGH STRENGTH BOLT INSPECTIONS
N/A	HIGH WIND ZONE INSPECTIONS <sup>4</sup>
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT
N/A	POST INSTALLED ANCHOR VERIFICATION <sup>5</sup>
N/A	GROUT VERIFICATION
N/A	CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
N/A	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT
ADDITIONAL TESTING AND INSPECTIONS:	
AFTER CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS <sup>6</sup>
N/A	POST INSTALLED ANCHOR PULL-OUT TESTING
REQUIRED	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

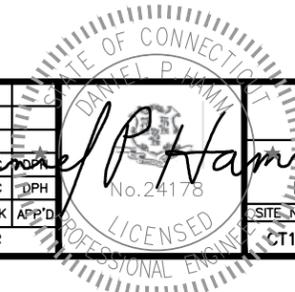
45 BEECHWOOD DRIVE  
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12 INDUSTRIAL WAY  
SALEM, NH 03079

SITE NUMBER: CT1124  
SITE NAME: GLASTONBURY SOUTH  
SBA SITE # ID: 1222500  
175 DICKINSON ROAD  
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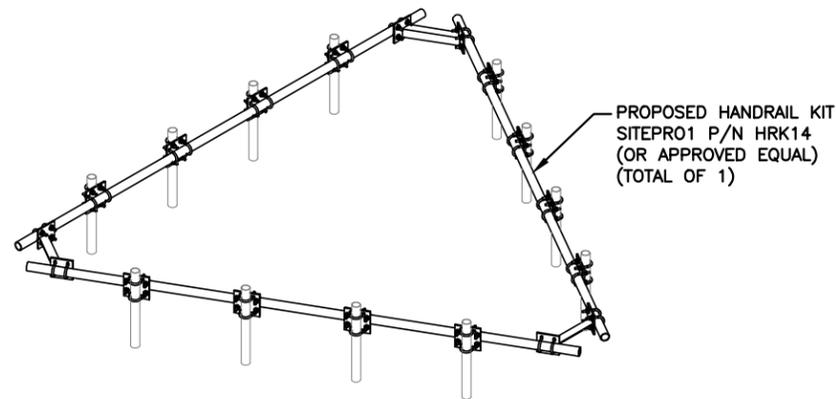
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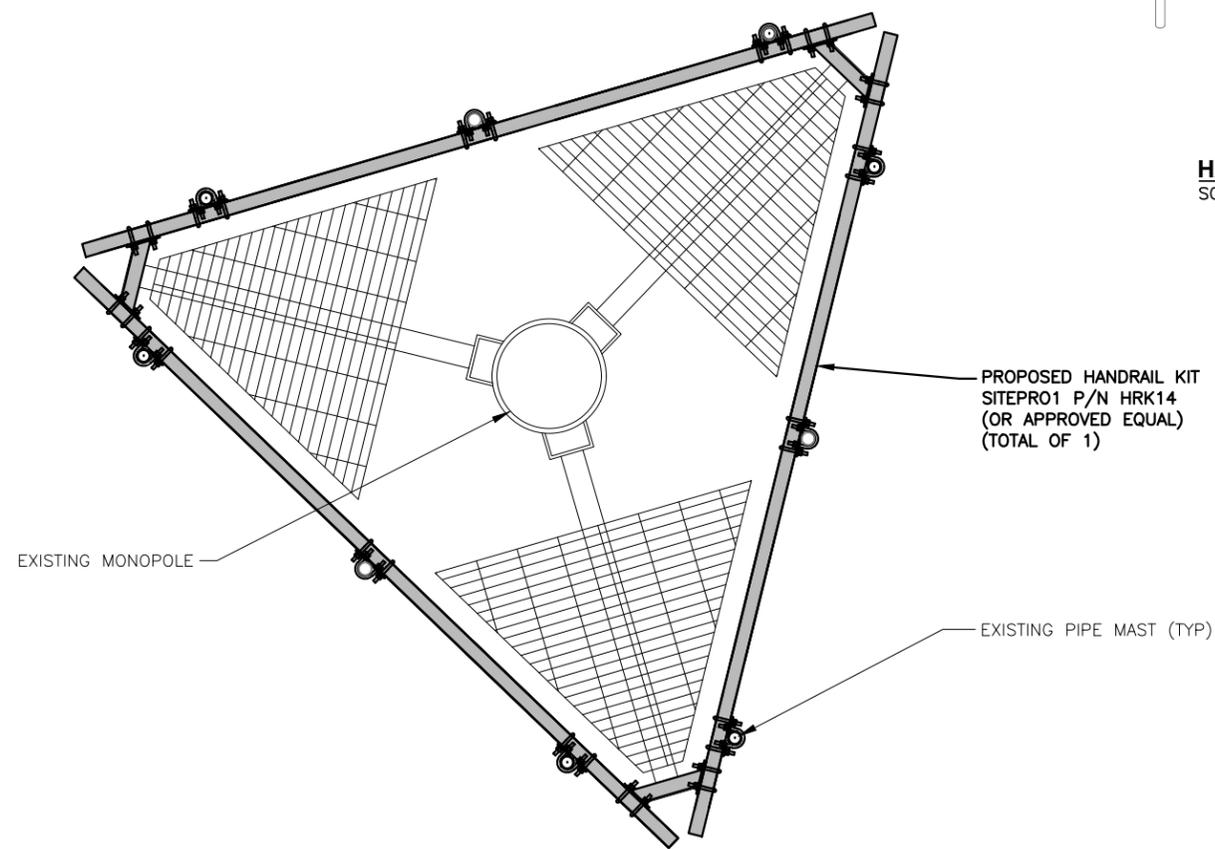
**NOTE:**  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

**NOTE:**  
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HUDSON DESIGN GROUP, LLC.  
DATED: OCTOBER 09, 2020

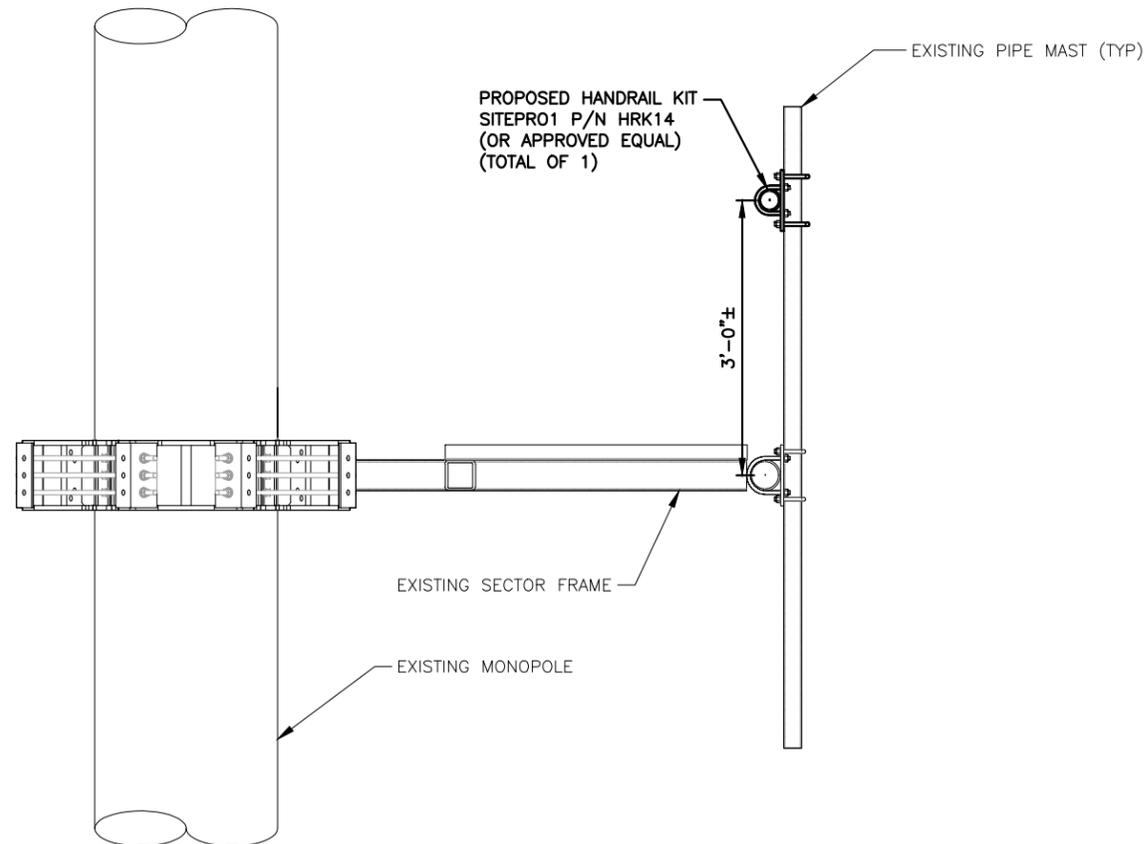
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**HANDRAIL DETAIL** 2  
SCALE: N.T.S. S-1



**PROPOSED MOUNT MODIFICATIONS PLAN** 1  
22x34 SCALE: 3/4"=1'-0" S-1  
11x17 SCALE: 3/8"=1'-0"



**PROPOSED MOUNT MODIFICATIONS DETAIL** 3  
22x34 SCALE: 1"=1'-0" S-1  
11x17 SCALE: 1/2"=1'-0"



**HDG HUDSON Design Group LLC**  
45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845  
TEL: (978) 557-5553 FAX: (978) 336-5586

**SAI**  
12 INDUSTRIAL WAY SALEM, NH 03079

SITE NUMBER: CT1124  
SITE NAME: GLASTONBURY SOUTH  
SBA SITE # ID: 1222500  
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**at&t**  
500 ENTERPRISE DRIVE, SUITE 3A ROCKY HILL, CT 06067

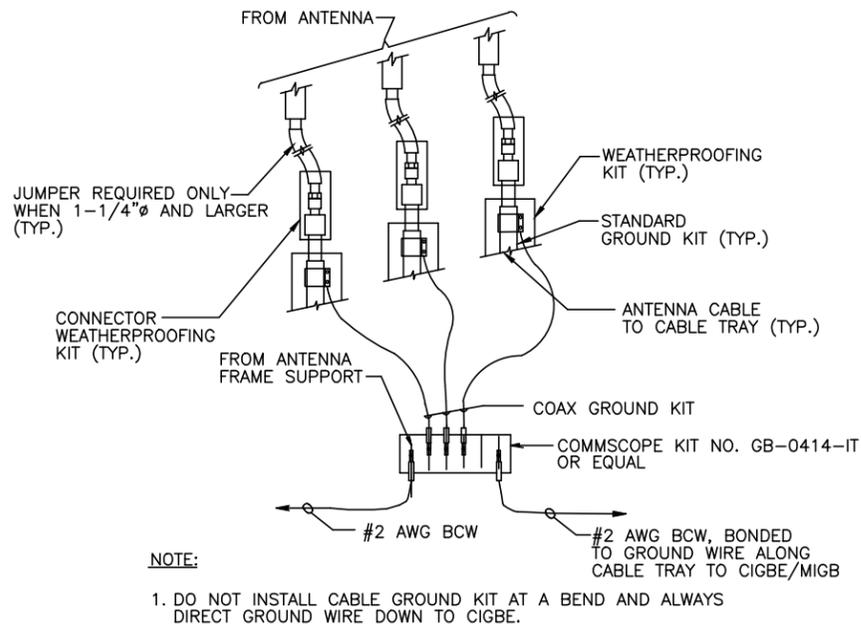
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0	12/15/20	ISSUED FOR REVIEW	CA	OPH	
A	10/13/20	ISSUED FOR REVIEW	AR	HC	OPH

SCALE: AS SHOWN DESIGNED BY: HC DRAWN BY: AR

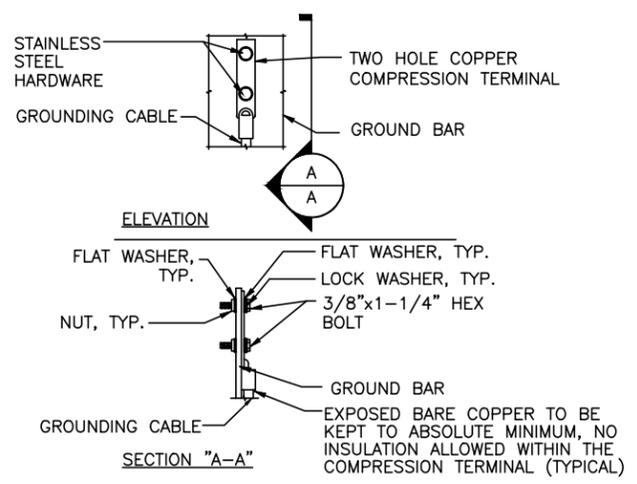


AT&T  
MOUNT MODIFICATION DESIGN  
LTE 3C\_4C\_4TX4RX\_5G 2020 UPGRADE

SITE NUMBER	DRAWING NUMBER	REV
CT1124	S-1	0

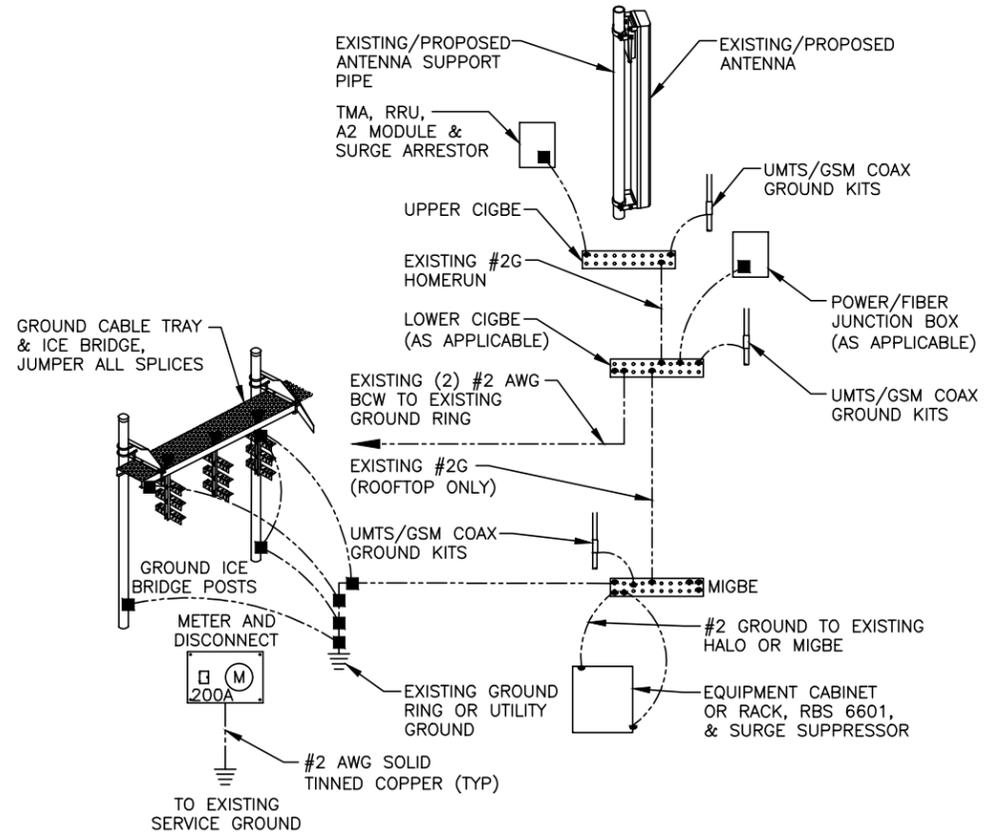


**GROUND WIRE TO GROUND BAR CONNECTION DETAIL** (1)  
SCALE: N.T.S. G-1



- NOTES:
1. "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
  2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATION.
  3. CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB, AND MGB

**TYPICAL GROUND BAR CONNECTION DETAIL** (3)  
SCALE: N.T.S. G-1



**GROUNDING RISER DIAGRAM** (2)  
SCALE: N.T.S. G-1

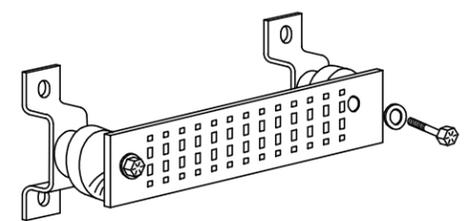
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

**SECTION "P" - SURGE PRODUCERS**

- CABLE ENTRY PORTS (HATCH PLATES) (#2 AWG)
- GENERATOR FRAMEWORK (IF AVAILABLE) (#2 AWG)
- TELCO GROUND BAR
- COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2 AWG)
- +24V POWER SUPPLY RETURN BAR (#2 AWG)
- 48V POWER SUPPLY RETURN BAR (#2 AWG)
- RECTIFIER FRAMES.

**SECTION "A" - SURGE ABSORBERS**

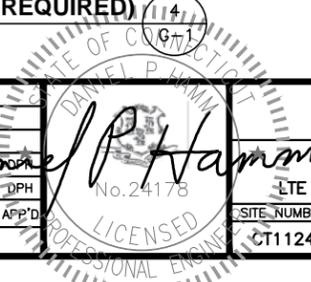
- INTERIOR GROUND RING (#2 AWG)
- EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2 AWG)
- METALLIC COLD WATER PIPE (IF AVAILABLE) (#2 AWG)
- BUILDING STEEL (IF AVAILABLE) (#2 AWG)

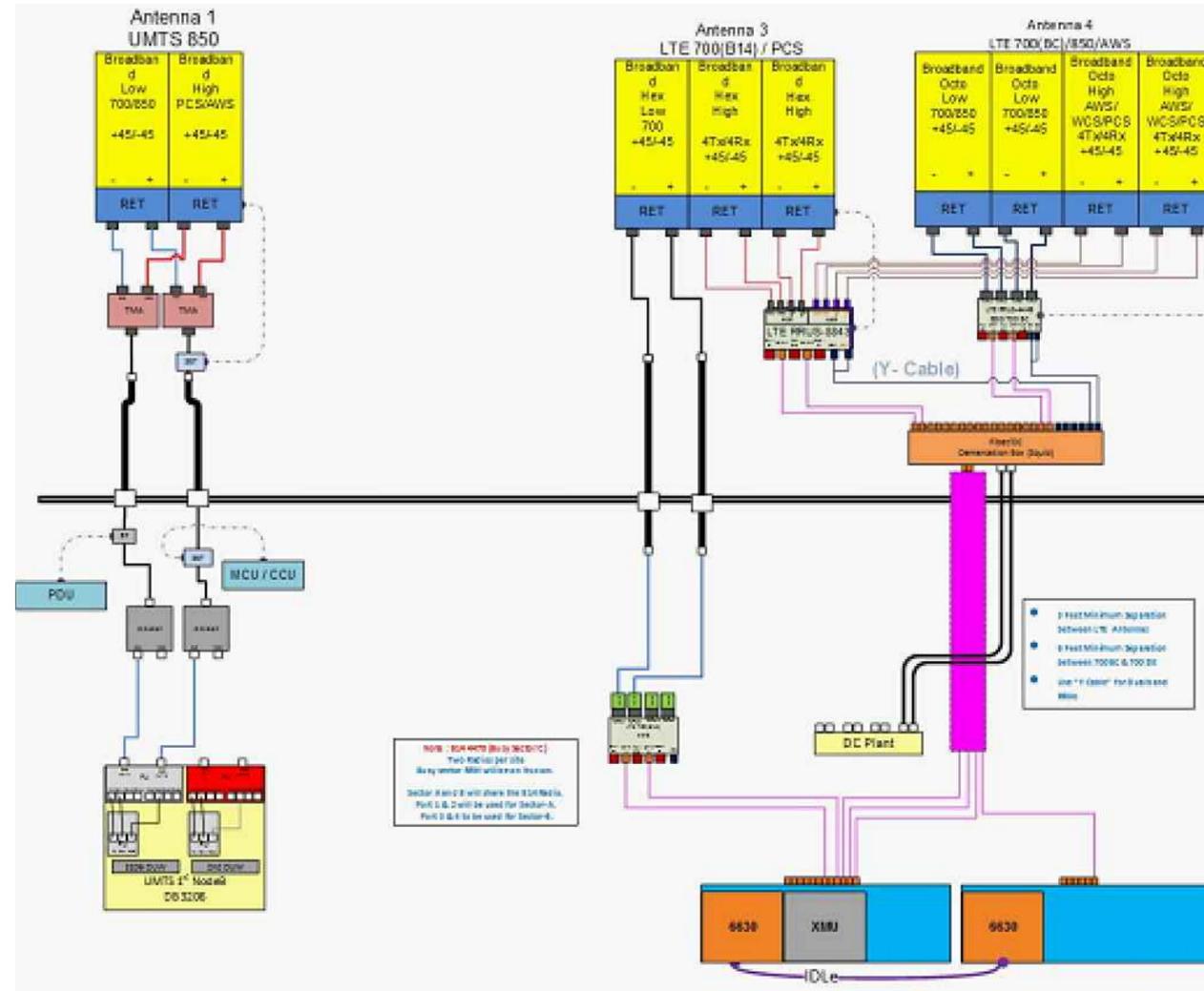


**GROUND BAR - DETAIL (AS REQUIRED)** (14)  
SCALE: N.T.S. G-1

NO.	DATE	REVISIONS	BY	CHK	APP'D
0	12/15/20	ISSUED FOR REVIEW	CA	OPH	
A	10/13/20	ISSUED FOR REVIEW	AR	HC	OPH

SCALE: AS SHOWN    DESIGNED BY: HC    DRAWN BY: AR





RF PLUMBING DIAGRAM <sup>1</sup>  
SCALE: N.T.S. RF-1

NOTE:  
1. CONTRACTOR TO CONFIRM ALL PARTS.  
2. INSTALL ALL EQUIPMENT TO MANUFACTURER'S RECOMMENDATIONS

NOTE:  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

0	12/15/20	ISSUED FOR REVIEW	GA	HC	DPH
A	10/13/20	ISSUED FOR REVIEW	AR	HC	DPH
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: HC	DRAWN BY: AR		

AT&T		
RF PLUMBING DIAGRAM		
LTE 3C_4C_4TX4RX_5G 2020 UPGRADE		
SITE NUMBER	DRAWING NUMBER	REV
CT1124	RF-1	0