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
Web Site: portal.ct.gov/csc

VIA ELECTRONIC MAIL

February 28, 2024

Carolyn Seeley
Smartlink
6 Jasmine Road
Oxford, MA 01540
carolyn.seeley@smartlinkgroup.com

RE: **EM-ATT-155-240205** – AT&T Mobility, LLC notice of intent to modify an existing telecommunications facility located at 125 South Main Street, West Hartford, Connecticut. **Acknowledgement of Complete Request.**

Dear Carolyn Seeley:

The Connecticut Siting Council (Council) is in receipt of your correspondence of February 28, 2024 submitted in response to the Council's February 22, 2024 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

The submission renders the request for exempt modification complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman
Executive Director

MAB/ANM/dll

RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS

Site Name:	WEST HARTFORD SBC CO
AT&T Mobility FA#	10035052
Site ID:	CTL01076
Project Name:	5G NR 1SR CBAND
Address:	125 SOUTH MAIN STREET, WEST HARTFORD, CT 06107
County:	HARTFORD
Latitude:	41.75344
Longitude:	-72.74444
Structure Type:	MONOPOLE
Property Owner:	NA
Property Contact:	NA

AT&T Existing Facility

Report Information

Report Writer: Monti Kumar **Report Generated Date:** 02-26-2024

Site Compliance Statement

Compliance Status	Compliant
Cumulative General Population % MPE (Ground Level)	0.3141%

February 26, 2024

Emissions Analysis for Site: **CTL01076– WEST HARTFORD SBC CO**

MobileComm Professionals, Inc was directed to analyze the proposed AT&T facility located at **125 SOUTH MAIN STREET, WEST HARTFORD, CT 06107**, for the purpose of determining whether the emissions from the Proposed AT&T Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of milliwatts per square centimeter (mW/cm^2) or microwatts per square centimeter (µW/cm2). The number of mW/cm^2 or µW/cm2 calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of milliwatts per square centimeter (mW/cm^2). The general population exposure limits for the 700 and 850 MHz Bands are approximately 0.467 mW/cm^2 and 0.567 mW/cm^2 respectively or 466.667 µW/cm2 and 566.667 µW/cm2 respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS), 2300 MHz (WCS), 3540 MHz (DoD Band) and 3840 MHz (C-Band) bands is 1 mW/cm^2 or 1000 µW/cm2. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

1. Theoretical Calculations: Methods and Procedures

MobileComm Professionals, Inc has performed theoretical modeling of the site using a software tool, RoofMaster® Version 40.12.23.2022, which incorporates calculation methodologies detailed in FCC OET 65. RoofMaster® uses a cylindrical model for conservative power density predictions within the near field of the antenna where the antenna pattern has not truly formed yet. Within this area power density values tend to decrease based upon an inverse distance function. At the point where it is appropriate for modeling to change from near-field calculations to far-field calculations, the power decreases inversely with the square of the distance. The modeling is based on worst-case assumptions in terms of transmitter power and duty cycle. No losses were included in the power calculations unless they were specifically provided for the project.

In OET 65, a far field model is presented to calculate the spatial peak power density. The RoofMaster® implementation of this model incorporates antenna manufacturer's horizontal and vertical pattern data to determine the power density in all directions. This model yields the power density at a single point in space. In order to determine the spatial power density for comparison to the FCC limits, the average of several points calculated within the human profile (0-6') must be conducted. RoofMaster® calculates seven power density values between 0-6' above the specified study plane and performs a linear spatial average.

The following table details the antennas and operating parameters for the AT&T antenna system as well as any other antenna systems at the site. This is based on antenna information provided by the client and data compiled from other sources where necessary. The data below was input into Roofmaster® to perform the theoretical exposure calculations at the ground.

The theoretical calculations performed in Roofmaster® determine the cumulative exposure at all sample points at ground level (0-6' spatial average). The results from highest cumulative sample point at ground level surrounding the site are displayed in the table below. The contribution from directional antennas to the maximum cumulative totals varies greatly depending on location; therefore, the contribution from one antenna sector at the highest calculated exposure point may be greater or less than other sectors since sectorized directional antennas are pointed in different directions and there is not much overlapping exposure.

The contribution to the cumulative power density and % MPE for each antenna/frequency band is listed in the table. The cumulative power density and cumulative % MPE are displayed at the bottom of the table.

2. Antenna Inventory & Power Data

Sector	Ant ID	Operator	Antenna Mfg	Antenna Model	Antenna Type	FREQ. (MHz)	TECH.	AZ. (^{0})	H B W (^{0})	Antenna Gain (dBd)	Antenna Aperture (ft)	#of Channels	Transmitter Power Per Channel (Watts)	Total ERP (Watts)	Total EIRP (Watts)	Height (ft)	Calculated Power Density ($\mu W/cm^2$)	Allowable MPE ($\mu W/cm^2$)	Calculated MPE%
A	1	AT&T	CCI	TPA65R-BU6DV2	Panel	700(B14)	LTE	30	72	12.25	6	4	40.00	2393.98	3927.53	105.00	0.000107	466.67	0.000023
A	1	AT&T	CCI	TPA65R-BU6DV2	Panel	1900	LTE/5G	30	63	16.05	6	4	60.00	8614.13	14132.25	105.00	0.000221	1000.00	0.000022
A	1	AT&T	CCI	TPA65R-BU6DV2	Panel	2100	LTE/5G	30	61	16.45	6	4	60.00	9445.20	15495.70	105.00	0.000057	1000.00	0.000006
A	2-1	AT&T	Ericsson	AIR 6419 B77G	Panel	3450	5G	30	11	23.5	2.4	64	2.50	12138.53	19914.34	106.70	0.000388	1000.00	0.000039
A	2-2	AT&T	Ericsson	AIR 6449 B77D	Panel	3840	5G	30	11	23.5	2.55	64	4.00	19421.64	31862.94	103.23	0.000621	1000.00	0.000062
A	3	AT&T	CCI	OPA65R-BU6D	Panel	700(B12)	LTE	30	73	12.15	6	4	60.00	3509.23	5757.20	105.00	0.164979	466.67	0.035353
A	3	AT&T	CCI	OPA65R-BU6D	Panel	850	5G	30	64	13.05	6	4	60.00	4317.29	7082.90	105.00	0.174455	566.67	0.030786
A	3	AT&T	CCI	OPA65R-BU6D	Panel	2300	LTE	30	55	16.05	6	4	25.00	3589.22	5888.44	105.00	0.108255	1000.00	0.010826
B	4	AT&T	CCI	TPA65R-BU6DV2	Panel	700(B14)	LTE	150	72	12.25	6	4	40.00	2393.98	3927.53	105.00	0.130772	466.67	0.028023
B	4	AT&T	CCI	TPA65R-BU6DV2	Panel	1900	LTE/5G	150	63	16.05	6	4	60.00	8614.13	14132.25	105.00	0.230024	1000.00	0.023002
B	4	AT&T	CCI	TPA65R-BU6DV2	Panel	2100	LTE/5G	150	61	16.45	6	4	60.00	9445.20	15495.70	105.00	0.203687	1000.00	0.020369
B	5-1	AT&T	Ericsson	AIR 6419 B77G	Panel	3450	5G	150	11	23.5	2.4	64	2.50	12138.53	19914.34	106.70	0.021513	1000.00	0.002151
B	5-2	AT&T	Ericsson	AIR 6449 B77D	Panel	3840	5G	150	11	23.5	2.55	64	4.00	19421.64	31862.94	103.23	0.034420	1000.00	0.003442
B	6	AT&T	CCI	OPA65R-BU6D	Panel	700(B12)	LTE	150	73	12.15	6	4	60.00	3509.23	5757.20	105.00	0.165463	466.67	0.035456
B	6	AT&T	CCI	OPA65R-BU6D	Panel	850	5G	150	64	13.05	6	4	60.00	4317.29	7082.90	105.00	0.212792	566.67	0.037552
B	6	AT&T	CCI	OPA65R-BU6D	Panel	2300	LTE	150	55	16.05	6	4	25.00	3589.22	5888.44	105.00	0.097436	1000.00	0.009744
C	7	AT&T	CCI	TPA65R-BU6DV2	Panel	700(B14)	LTE	270	72	12.25	6	4	40.00	2393.98	3927.53	105.00	0.000102	466.67	0.000022
C	7	AT&T	CCI	TPA65R-BU6DV2	Panel	1900	LTE/5G	270	63	16.05	6	4	60.00	8614.13	14132.25	105.00	0.000032	1000.00	0.000003
C	7	AT&T	CCI	TPA65R-BU6DV2	Panel	2100	LTE/5G	270	61	16.45	6	4	60.00	9445.20	15495.70	105.00	0.000041	1000.00	0.000004
C	8-1	AT&T	Ericsson	AIR 6419 B77G	Panel	3450	5G	270	11	23.5	2.4	64	2.50	12138.53	19914.34	106.70	0.296941	1000.00	0.029694
C	8-2	AT&T	Ericsson	AIR 6449 B77D	Panel	3840	5G	270	11	23.5	2.55	64	4.00	19421.64	31862.94	103.23	0.475102	1000.00	0.047510
C	9	AT&T	CCI	OPA65R-BU6D	Panel	700(B12)	LTE	270	73	12.15	6	4	60.00	3509.23	5757.20	105.00	0.000036	466.67	0.000008
C	9	AT&T	CCI	OPA65R-BU6D	Panel	850	5G	270	64	13.05	6	4	60.00	4317.29	7082.90	105.00	0.000011	566.67	0.000002
C	9	AT&T	CCI	OPA65R-BU6D	Panel	2300	LTE	270	55	16.05	6	4	25.00	3589.22	5888.44	105.00	0.000008	1000.00	0.000001
																Calculated Power Density ($\mu W/cm^2$)	**2.317463%**	**Calculated MPE%**	**0.3141%**

Table 2: Antenna Inventory & Power Data

3. Compliance Summary

The theoretical calculations performed for this analysis yielded results that were **within** the allowable limits for general public exposure to RF Emissions.

The anticipated composite MPE value for this site assuming all carriers present is 0.3141% of the allowable FCC established general public limit sampled at the ground level.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were within the allowable 100% threshold standard per the federal government.

PROJECT INFORMATION

SCOPE OF WORK:

ITEMS TO BE MOUNTED ON THE EXISTING TOWER ON MONOPOLE:
- NEW PROPOSED AT&T LOW PROFILE PLATFORM, SITEPRO-1 PART # RMQLP-4120-H10
- NEW AT&T ANTENNAS: TPA65R-BU6DV2 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T ANTENNAS: AIR6449 B77D (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T ANTENNAS: AIR6419 B77G (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T ANTENNAS: OPA65R-BU6DA (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T RRU: 4478 B14 (700) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T RRU: 4490 B5/B12 (850/700) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T RRU: 4890 B25/B66 (PCS/AWS) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T SQUID: DC6-48-60-18-8C-EV (TOTAL OF 1) WITH (2) 6AWG DC POWER & (1) 18 FIBER LINES.
- NEW AT&T (6) Y-CABLES.
- NEW (1) HOISTING GRIP HANGER SITEPRO-1 PHH-AL.

ITEMS TO BE MOUNTED AT EQUIPMENT LOCATION:
- ADD (1) 6651 + XCEDE CABLE ADD (1) 6630 AND IDLE. FINAL CONFIG. 5216 + XMU /6630+IDLE / 6651+XCEDE.
- ADD (3) RECTIFIERS.
- ADD BREAKERS (3) 25 AMP FOR 4478 B14. (3) 50 AMP FOR 4490 B5/B12 (3) 50 AMP FOR 4890 B25/B66, (3) 50 AMP FOR 6419 B77G (3) 50 AMP FOR 6449 B77D, (1) 15 AMP FOR 6651, (1) 15 AMP FOR 6630

ITEMS TO BE REMOVED:
- EXISTING AT&T UMTS ANTENNA: 7770 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T LTE ANTENNA: AM-X-CD-16-65-00T-RET (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T LTE ANTENNA: QS66512-2(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 TMA: LGP21401 (TYP. OF 2 PER SECTOR, TOTAL OF 6).
- EXISTING AT&T COAX: 7/8" (TYP. OF 2 PER SECTOR, TOTAL OF 6).

ITEMS TO REMAIN:
- (3) RRU'S, (2) SURGE ARRESTOR, (6) COAX CABLES, (4) DC POWER & (2) FIBER

RFDS:	FINAL APPROVED V6.00 RFDS 02/5/2024
SITE ADDRESS:	125 SOUTH MAIN STREET WEST HARTFORD, CT 06107
LATITUDE:	41.7534439° N, 41° 45' 12.39" N
LONGITUDE:	-72.7444439° W, 72° 44' 39.99" W
TYPE OF SITE:	MONOPOLE / INDOOR EQUIPMENT
STRUCTURE HEIGHT:	104'-0"±
RAD CENTER:	105'-0"±
CURRENT USE:	TELECOMMUNICATIONS FACILITY
PROPOSED USE:	TELECOMMUNICATIONS FACILITY

DRAWING INDEX

SHEET NO.	DESCRIPTION	REV.
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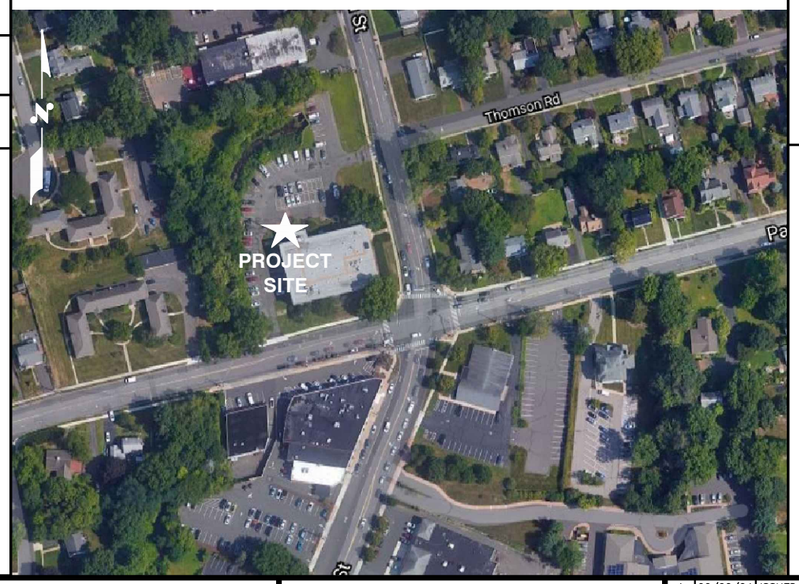
A-4	DETAILS	4
G-1	GROUNDING DETAILS	4
RF-1	RF PLUMBING DIAGRAM	4

SITE NUMBER: CTL01076
SITE NAME: WEST HARTFORD SBC CO
FA CODE: 10035052
PACE ID: MRCTB052267, MRCTB050860, MRCTB050827, MRCTB051294, MRCTB050887, MRCTB050947, MRCTB051030, MRCTB051432
PROJECT: 5G NR 1SR CBAND, BBU ADD, 4TX4RX, 5G NR 1SR, LTE 4C, LTE 5C SOFTWARE, 5G NR RADIO

VICINITY MAP

DIRECTIONS TO SITE: (FROM AT&T ADDRESS)

HEAD NORTHWEST, TURN LEFT TOWARD MYRICK ST, TURN RIGHT ONTO MYRICK ST, MAKE A U-TURN TURN LEFT AT THE 1ST CROSS STREET ONTO ME-3 E/BAR HARBOR RD/HIGH ST, CONTINUE TO FOLLOW ME-3 E/BAR HARBOR RD, KEEP RIGHT TO CONTINUE ON ME-102 S/ME-198 S, TURN LEFT ONTO ME-198 S/ME-3 W, TURN LEFT ONTO CEMETERY RD, TURN RIGHT, WEST HARTFORD, CT 06107



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.

72 HOURS

CALL
BEFORE YOU DIG
CALL TOLL FREE 1-800-922-4455
OR CALL 811

UNDERGROUND SERVICE ALERT

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

TEP NORTHEAST
TEP OPCO, LLC
45 BEECHWOOD DRIVE, NORTH ANDOVER, MA 01845
TEL: (978) 557-5553

smartlink
SMARTLINK
1997 ANNAPOLIS EXCHANGE PKWY SUITE 200
ANNAPOLIS, MD 21401

SITE NUMBER: CTL01076
SITE NAME: WEST HARTFORD SBC CO

125 SOUTH MAIN STREET
WEST HARTFORD, CT 06107
HARTFORD COUNTY

AT&T
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
4	02/22/24	ISSUED FOR CONSTRUCTION	SG	AT	DPH
3	01/16/24	ISSUED FOR CONSTRUCTION	VD	AT	DPH
2	03/18/22	ISSUED FOR CONSTRUCTION	MB	AT	DPH
1	03/10/22	ISSUED FOR CONSTRUCTION	MB	AT	DPH
0	01/24/22	ISSUED FOR REVIEW	VA	AT	DPH

SCALE: AS SHOWN | DESIGNED BY: AT | DRAWN BY: VA

AT&T
TITLE SHEET
5G NR 1SR CBAND, BBU ADD, 4TX4RX, 5G NR 1SR, LTE 4C, LTE 5C SOFTWARE, 5G NR RADIO

SITE NUMBER	DRAWING NUMBER	REV
CTL01076	T-1	4

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 – SMARTLINK
   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 2021 WITH 2022 CT STATE BUILDING CODE AMENDMENTS
    ELECTRICAL CODE: 2020 NATIONAL ELECTRICAL CODE (NFPA 70-2020)

    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		

TEP NORTHEAST
TEP OPCO, LLC.
45 BEECHWOOD DRIVE, NORTH ANDOVER, MA 01845
TEL: (978) 557-5553

SMARTLINK
1997 ANNAPOLIS EXCHANGE PKWY SUITE 200
ANNAPOLIS, MD 21401

SITE NUMBER: CTL01076
SITE NAME: WEST HARTFORD SBC CO

125 SOUTH MAIN STREET
WEST HARTFORD, CT 06107
HARTFORD COUNTY

AT&T
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
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0	01/24/22	ISSUED FOR REVIEW	VA	AT	DPH

SCALE: AS SHOWN | DESIGNED BY: AT | DRAWN BY: VA

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

AT&T
GENERAL NOTES
5G NR 1SR CBAND, BBU ADD, 4TX4RX, 5G NR 1SR, LTE 4C, LTE 5C SOFTWARE, 5G NR RADIO

SITE NUMBER	DRAWING NUMBER	REV
CTL01076	GN-1	4

NOTE:

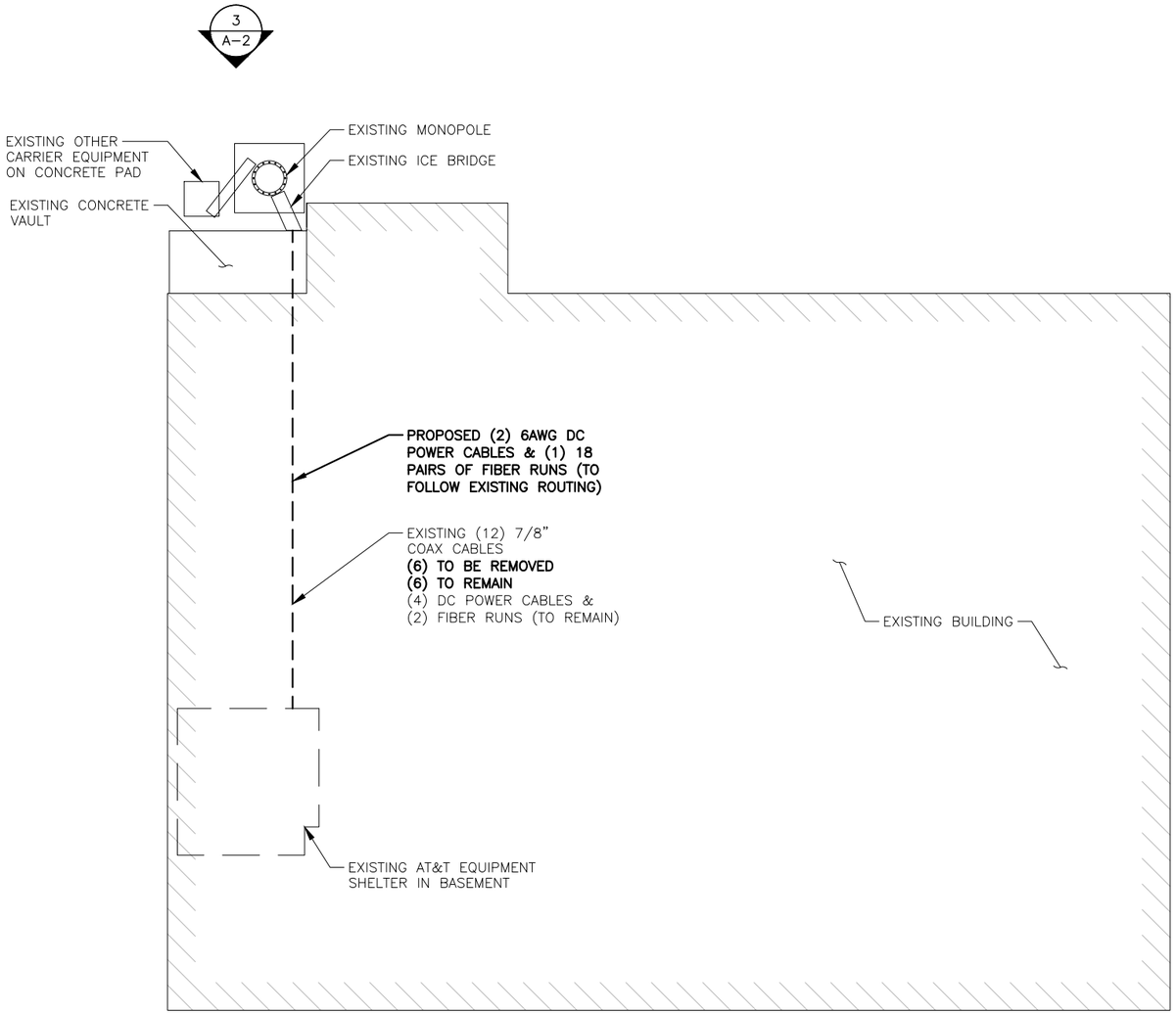
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING **ANTENNA MOUNT** TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY:
TEP NORTHEAST (TEP OPCO, LLC.)
DATED: FEBRUARY 13, 2024 (REV. 3)

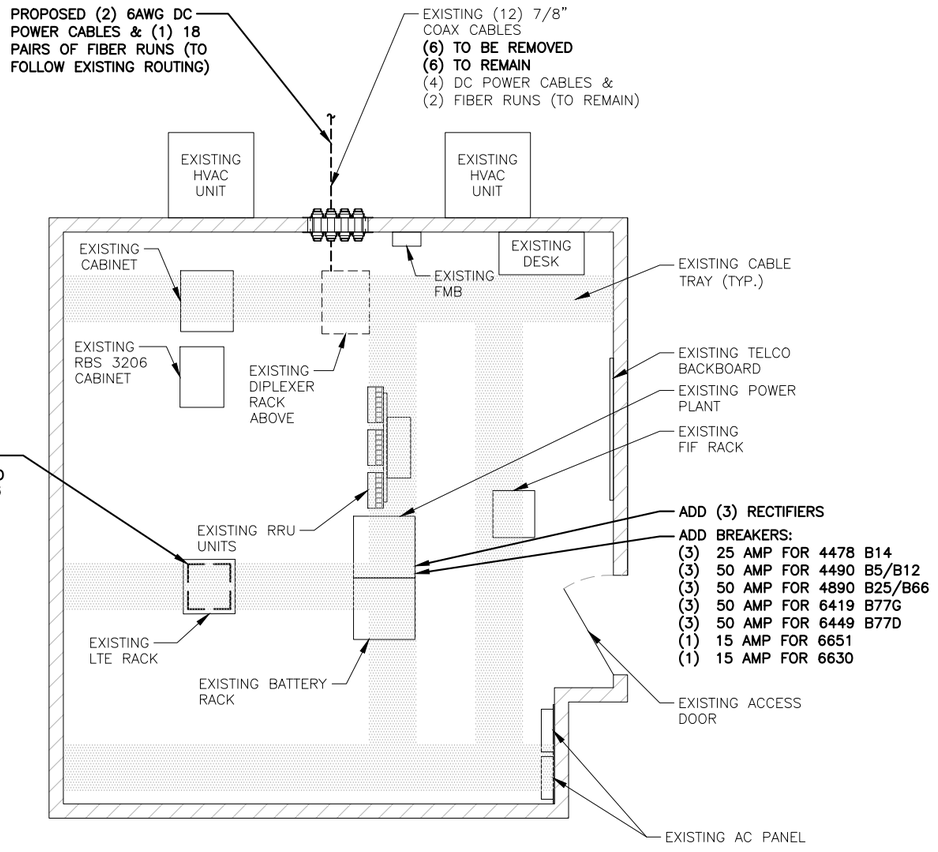
NOTE:

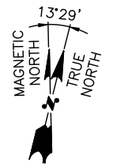
REFER TO FINAL APPROVED V6.00
RFDS 02/5/2024

NOTE:

AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.

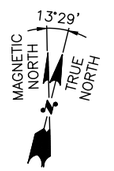






COMPOUND PLAN (1 / A–1)
22x34 SCALE: 3/32"=1'–0"
11x17 SCALE: 3/64"=1'–0"

0 5'–4" 10'–8" 21'–4" 32'–0"



EQUIPMENT PLAN (2 / A–1)
22x34 SCALE: 3/8"=1'–0"
11x17 SCALE: 3/16"=1'–0"

0 2'–8" 5'–4" 8'–0"

TEP NORTHEAST
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smartlink
SMARTLINK
1997 ANNAPOLIS EXCHANGE PKWY SUITE 200
ANNAPOLIS, MD 21401

SITE NUMBER: CTL01076
SITE NAME: WEST HARTFORD SBC CO

125 SOUTH MAIN STREET
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ROCKY HILL, CT 06067

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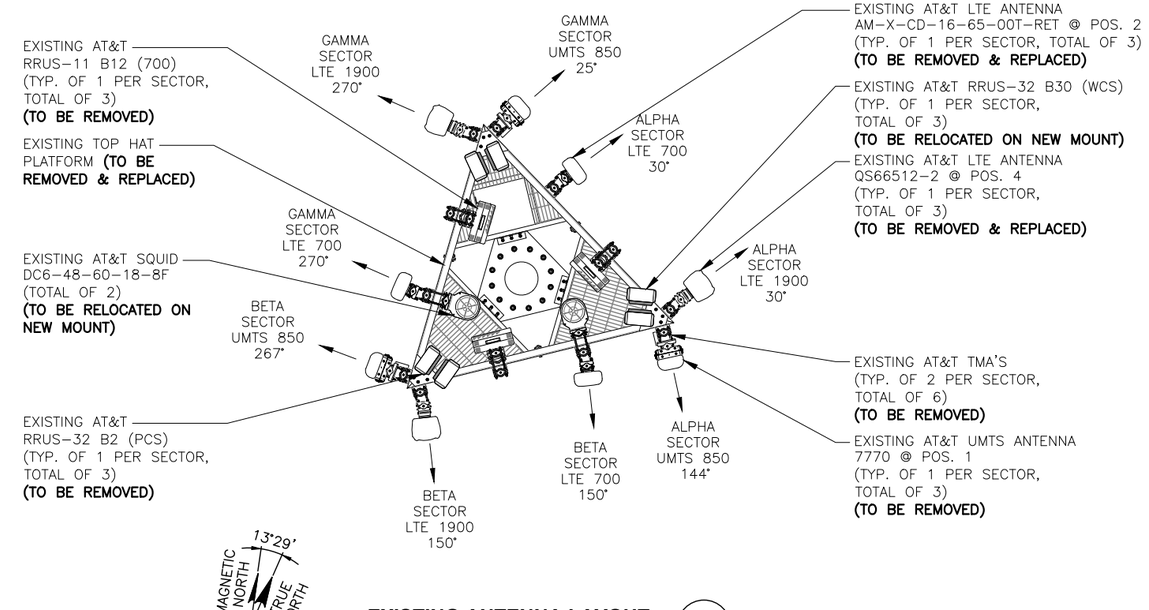
SCALE: AS SHOWN | DESIGNED BY: AT | DRAWN BY: VA

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

AT&T
COMPOUND & EQUIPMENT PLANS
5G NR 1SR CBAND, BBU ADD, 4TX4RX, 5G NR 1SR, LTE 4C, LTE 5C SOFTWARE, 5G NR RADIO

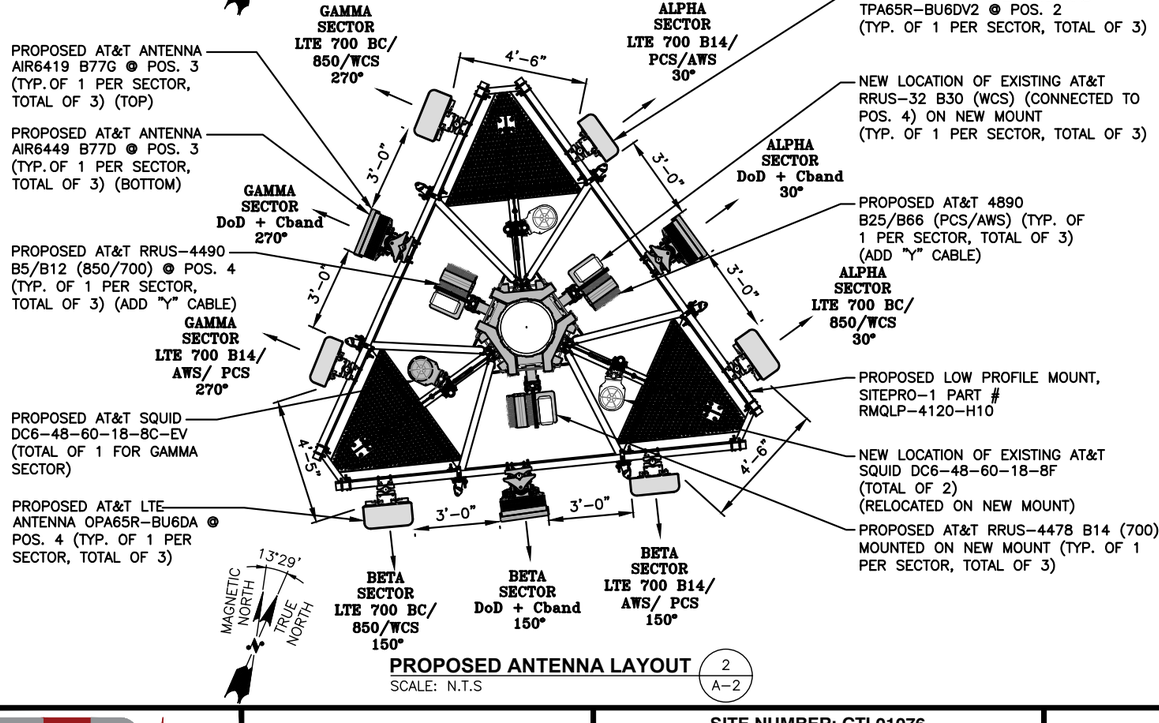
SITE NUMBER	DRAWING NUMBER	REV
CTL01076	A–1	4



EXISTING ANTENNA LAYOUT

SCALE: N.T.S

1 A-2



PROPOSED ANTENNA LAYOUT

SCALE: N.T.S

2 A-2

NOTE:
REFER TO FINAL APPROVED V6.00 RFDS 02/5/2024

NOTE:
ADD (1) SITEPRO-1 PHH-AL HOISTING GRIP HANGER.

NOTE:
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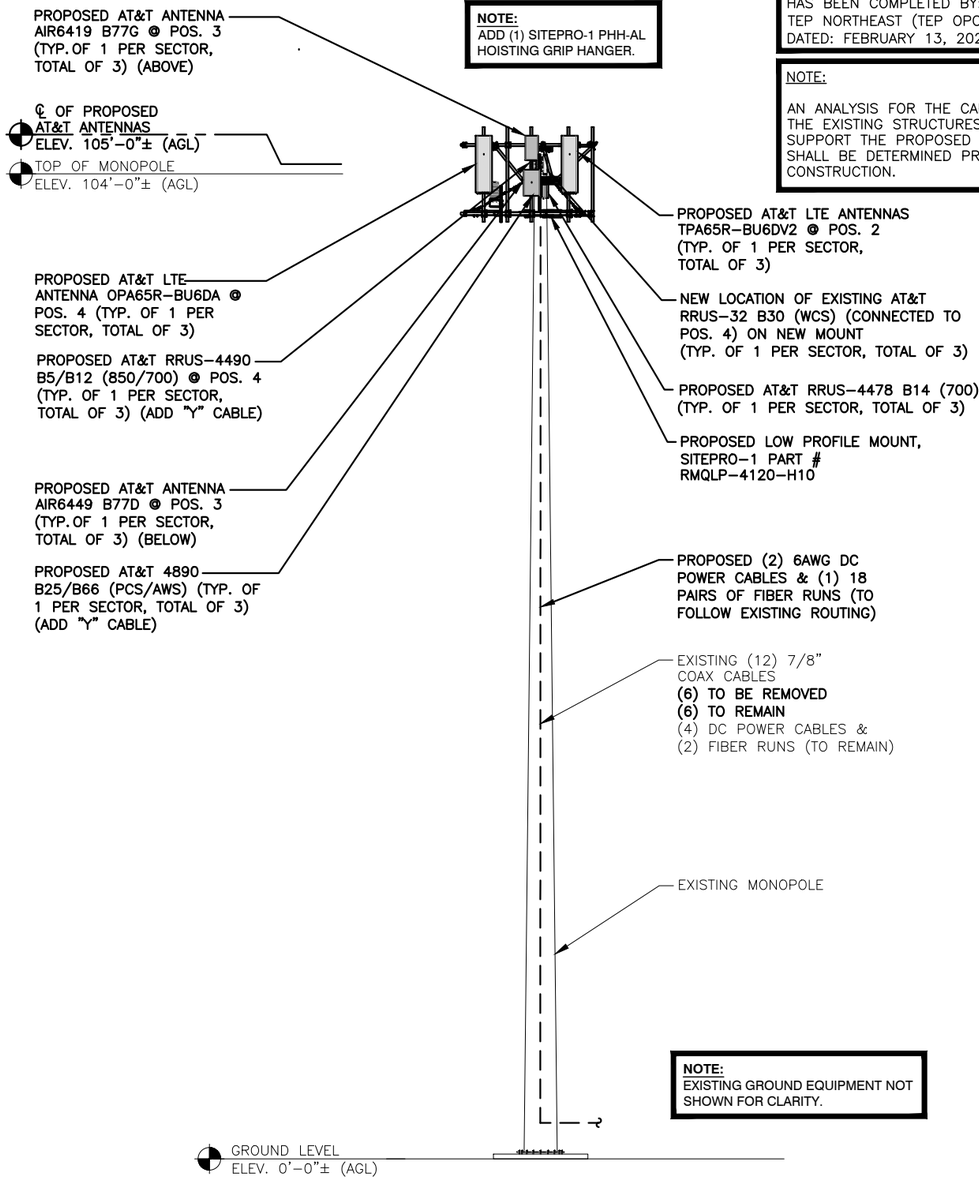
TEP NORTHEAST (TEP OPCO, LLC.)
DATED: FEBRUARY 13, 2024 (REV. 3)

NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.



NOTE:
EXISTING GROUND EQUIPMENT NOT SHOWN FOR CLARITY.

ELEVATION

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

3 A-2

0'-0" 8'-0" 16'-0" 24'-0"

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SCALE: AS SHOWN | DESIGNED BY: AT | DRAWN BY: VA

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

AT&T
ANTENNA LAYOUTS & ELEVATION
~~5G NR~~ 1SR CBAND, BBU ADD, 4TX4RX, ~~5G NR~~ 1SR, LTE 4C, LTE 5C SOFTWARE, 5G NR RADIO

SITE NUMBER	DRAWING NUMBER	REV
CTL01076	A-2	4

ANTENNA SCHEDULE

FINAL APPROVED V6.00 RFDS 02/5/2024

SECTOR	EXISTING/ PROPOSED	BAND	ANTENNA	SIZE (INCHES) (L x W x D)	ANTENNA ℄ HEIGHT	AZIMUTH	TMA/ DIPLEXER	RRU	SIZE (INCHES) (L x W x D)	FEEDER	RAYCAP
A1	–	–	–	–	–	–	–	–	–	(2)7/8 COAX	(E) (1) RAYCAP DC6-48-60-18-8F
A2	PROPOSED	LTE 700 B14/ PCS/AWS	TPA65R-BU6DV2	71.2X20.7X7.7	105'-0"±	30°	–	(P)(1)4890 B25/B66 (PCS/AWS) (P)(1)RRUS-4478 B14 (700)	14.9"x13.2"x10.9" 18.1"X13.4"X8.3"	(P)(1) Y CABLE (E)(2) DC POWER & (1) FIBER	
A3	PROPOSED	DoD C-BAND	AIR6419 B77G AIR6449 B77D	31.1X16.1X7.3 30.4X15.9X8.1	105'-0"±	30°	–	–	–	–	
A4	PROPOSED	LTE 700 BC/ 850/WCS	OPA65R-BU6DA	71.2X20.7X7.8	105'-0"±	30°	–	(P)(1)RRUS-4490 B5/B12 (850/700) (E)(1)RRUS-32 B30 (WCS)	17.9"x13.2"x10.4" –	(P)(1) Y CABLE	
B1	–	–	–	–	–	–	–	–	–	(2)7/8 COAX	(E) (1) RAYCAP DC6-48-60-18-8F
B2	PROPOSED	LTE 700 B14/ PCS/AWS	TPA65R-BU6DV2	71.2X20.7X7.7	105'-0"±	150°	–	(P)(1)4890 B25/B66 (PCS/AWS) (P)(1)RRUS-4478 B14 (700)	14.9"x13.2"x10.9" 18.1"X13.4"X8.3"	(P)(1) Y CABLE (E)(2) DC POWER & (1) FIBER	
B3	PROPOSED	DoD C-BAND	AIR6419 B77G AIR6449 B77D	31.1X16.1X7.3 30.4X15.9X8.1	105'-0"±	150°	–	–	–	–	
B4	PROPOSED	LTE 700 BC/ 850/WCS	OPA65R-BU6DA	71.2X20.7X7.8	105'-0"±	150°	–	(P)(1)RRUS-4490 B5/B12 (850/700) (E)(1)RRUS-32 B30 (WCS)	17.9"x13.2"x10.4" –	(P)(1) Y CABLE	
C1	–	–	–	–	–	–	–	–	–	(2)7/8 COAX	(P) (1) RAYCAP DC6-48-60-18-8C-EV
C2	PROPOSED	LTE 700 B14/ PCS/AWS	TPA65R-BU6DV2	71.2X20.7X7.7	105'-0"±	270°	–	(P)(1)4890 B25/B66 (PCS/AWS) (P)(1)RRUS-4478 B14 (700)	14.9"x13.2"x10.9" 18.1"X13.4"X8.3"	(P)(2) 6AWG DC TRUNKS & (1) 18 PAIR FIBER (APPROX. LENGTH=210'±) (P)(1) Y CABLE	
C3	PROPOSED	DoD C-BAND	AIR6419 B77G AIR6449 B77D	31.1X16.1X7.3 30.4X15.9X8.1	105'-0"±	270°	–	–	–	–	
C4	PROPOSED	LTE 700 BC/ 850/WCS	OPA65R-BU6DA	71.2X20.7X7.8	105'-0"±	270°	–	(P)(1)RRUS-4490 B5/B12 (850/700) (E)(1)RRUS-32 B30 (WCS)	17.9"x13.2"x10.4" –	(P)(1) Y CABLE	

RRU CHART

QUANTITY	MODEL	SIZE (L x W x D)
3(P)	RRUS-4490 B5/B12 (850/700)	17.9"x13.2"x10.4"
3(P)	RRUS-32 B30 (WCS)	18.1"X13.4"X8.3"
3(P)	4890 B25/B66 (PCS/AWS)	14.9"x13.2"x10.9"
3(E)	RRUS-32 B30 (WCS)	27.2"X12.1X7.0"

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS

NOTE:

REFER TO FINAL APPROVED V6.00 RFDS 02/5/2024

NOTE:

AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.

NOTE:

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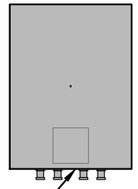
TEP NORTHEAST (TEP OPCO, LLC.)
DATED: FEBRUARY 13, 2024 (REV. 3)

NOTE:

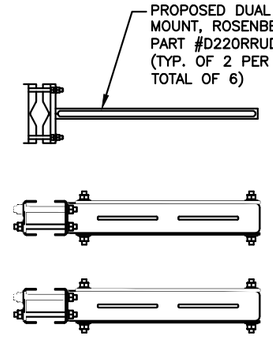
SEE RFDS FOR RRH FREQUENCY AND MODEL NUMBER



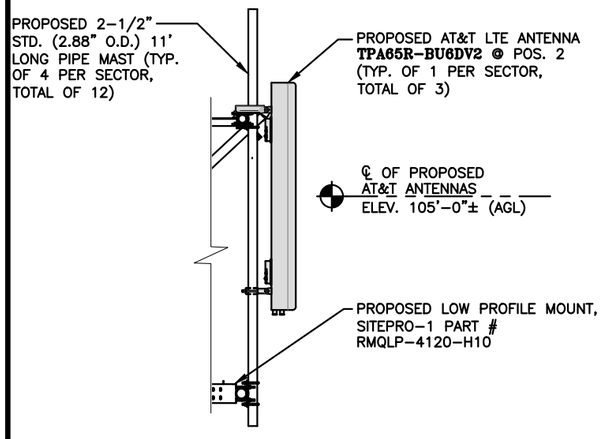
PROPOSED RRU REFER TO THE FINAL RFDS AND CHART FOR QUANTITY, MODEL AND DIMENSIONS

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

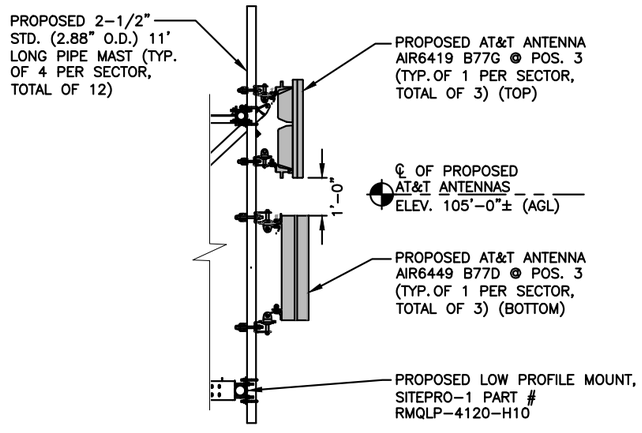
PROPOSED RRUS DETAIL (2 / A-3)
SCALE: N.T.S



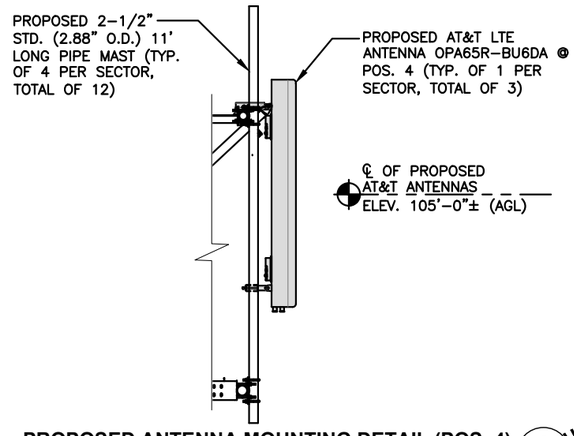
FINAL ANTENNA CONFIGURATION (1 / A-3)
SCALE: N.T.S



PROPOSED ANTENNA MOUNTING DETAIL (POS. 2) (4 / A-3)
22x34 SCALE: 3/4"=1'-0"
11x17 SCALE: 3/8"=1'-0"
0 8" 1'-4" 2'-8" 4'-0"

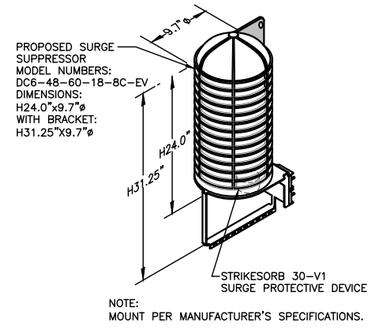


PROPOSED ANTENNAS MOUNTING DETAIL (POS. 3) (5 / A-3)
22x34 SCALE: 3/4"=1'-0"
11x17 SCALE: 3/8"=1'-0"
0 8" 1'-4" 2'-8" 4'-0"



PROPOSED ANTENNA MOUNTING DETAIL (POS. 4) (6 / A-3)
22x34 SCALE: 3/4"=1'-0"
11x17 SCALE: 3/8"=1'-0"
0 8" 1'-4" 2'-8" 4'-0"

BACK TO BACK RRU MOUNT DETAIL (3 / A-3)
SCALE: N.T.S



NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

DC SURGE SUPPRESSOR DETAIL (7 / A-3)
SCALE: N.T.S

TEP NORTHEAST
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STATE OF CONNECTICUT
DANIEL P. HAMM
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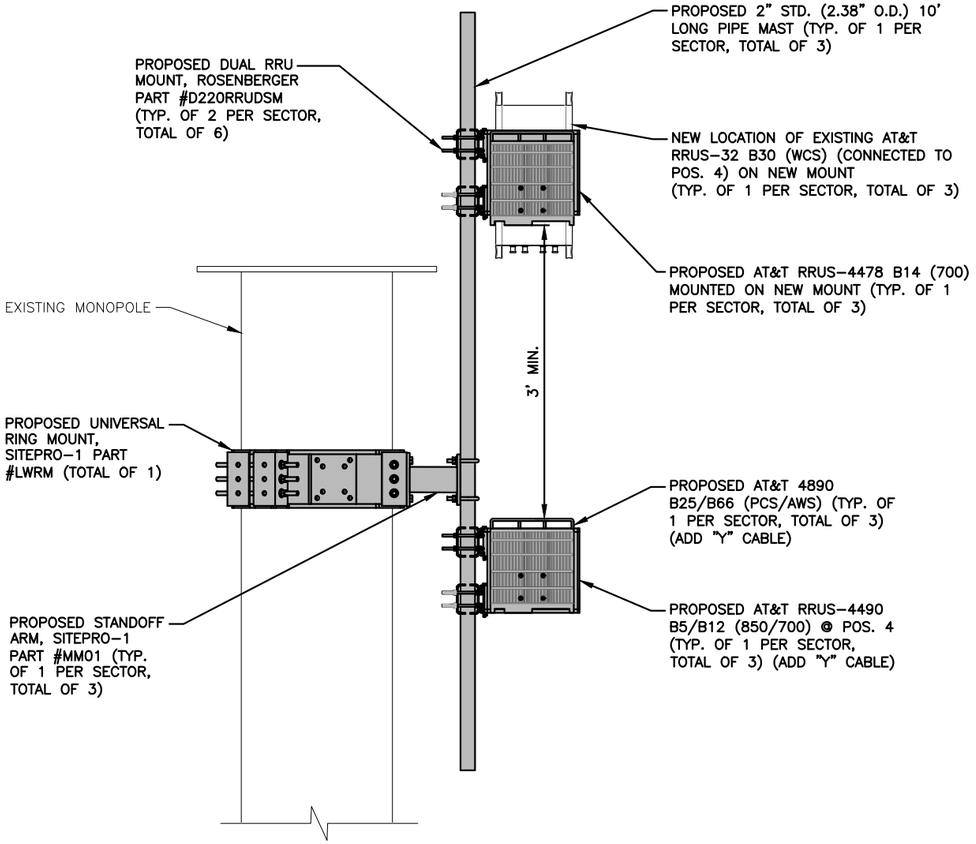
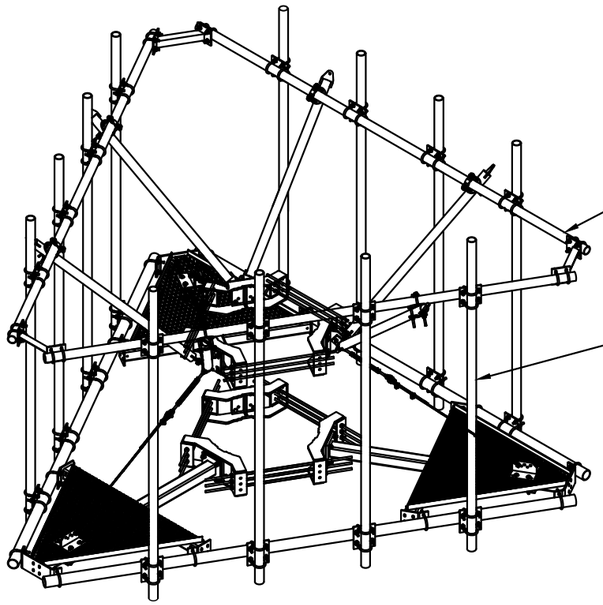
AT&T
DETAILS
~~5G NR 1SR~~ CBAND, BBU ADD, 4TX4RX, 5G NR 1SR, LTE 4C, LTE 5C SOFTWARE, 5G NR RADIO

SITE NUMBER	DRAWING NUMBER	REV
CTL01076	A-3	4



PROPOSED RRH MOUNTING DETAIL (1 / A-4)
22x34 SCALE: 1"=1'-0"
11x17 SCALE: 1/2"=1'-0"
0 0'-6" 1'-0" 2'-0" 3'-0"



14'-6" LOW PROFILE PLATFORM (RMQLP-4120-H10) (2 / A-4)
SCALE: N.T.S

NOTE:

REFER TO FINAL APPROVED V6.00 RFDS 02/5/2024

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NOTE:

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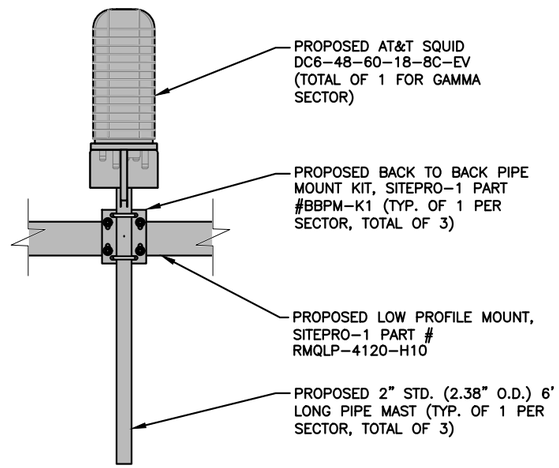
TEP NORTHEAST (TEP OPCO, LLC.)
DATED: FEBRUARY 13, 2024 (REV. 3)



PROPOSED SURGE ARRESTOR MOUNTING DETAIL
22x34 SCALE: 1"=1'-0"
11x17 SCALE: 1/2"=1'-0"
0 0'-6" 1'-0" 2'-0" 3'-0"

TEP NORTHEAST
TEP OPCO, LLC.
45 BEECHWOOD DRIVE, NORTH ANDOVER, MA 01845
TEL: (978) 557-5553

smartlink
SMARTLINK
1997 ANNAPOLIS EXCHANGE PKWY SUITE 200
ANNAPOLIS, MD 21401

SITE NUMBER: CTL01076
SITE NAME: WEST HARTFORD SBC CO

125 SOUTH MAIN STREET
WEST HARTFORD, CT 06107
HARTFORD COUNTY

AT&T
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

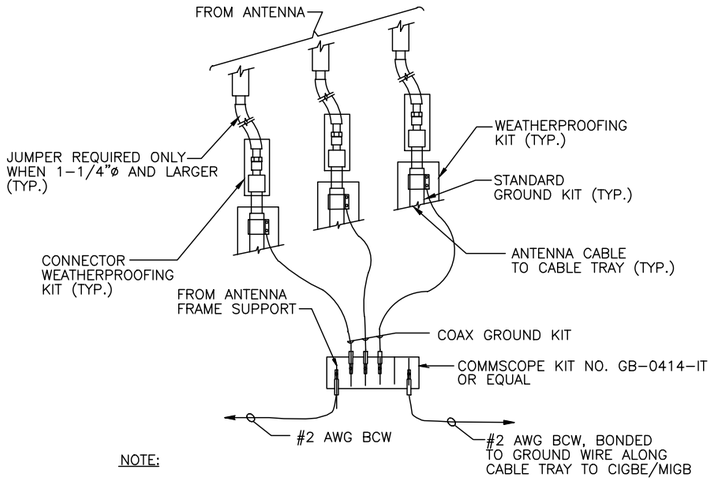
NO.	DATE	REVISIONS	BY	CHK	APP'D
4	02/22/24	ISSUED FOR CONSTRUCTION	SG	AT	DPH
3	01/16/24	ISSUED FOR CONSTRUCTION	VD	AT	DPH
2	03/18/22	ISSUED FOR CONSTRUCTION	MB	AT	DPH
1	03/10/22	ISSUED FOR CONSTRUCTION	MB	AT	DPH
0	01/24/22	ISSUED FOR REVIEW	VA	AT	DPH

SCALE: AS SHOWN | DESIGNED BY: AT | DRAWN BY: VA

STATE OF CONNECTICUT · DANIEL P. HAMM · No. 24178 · LICENSED PROFESSIONAL ENGINEER

AT&T
DETAILS
5G NR 1SR CBAND, BBU ADD, 4TX4RX, 5G NR 1SR, LTE 4C, LTE 5C SOFTWARE, 5G NR RADIO

SITE NUMBER	DRAWING NUMBER	REV
CTL01076	A-4	4



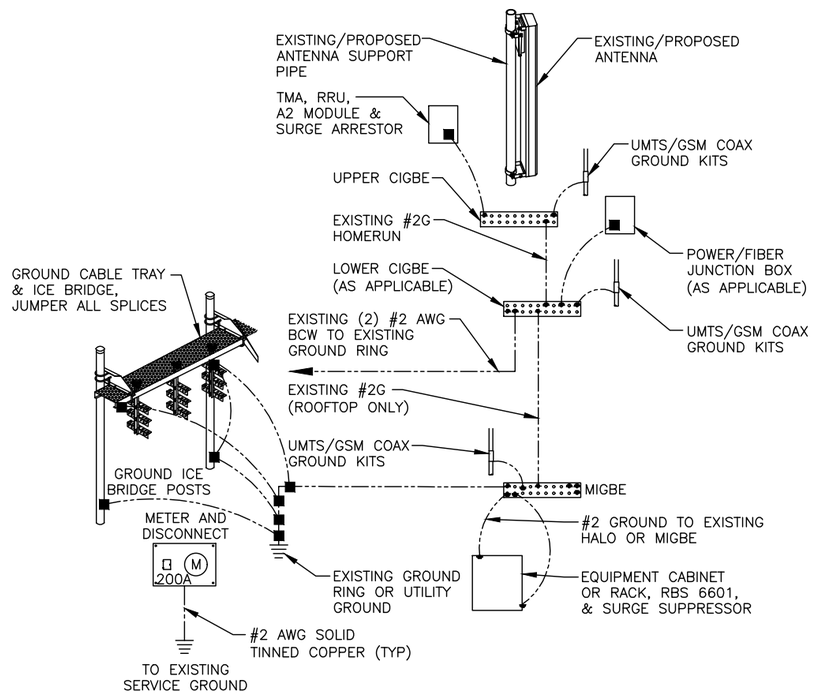
NOTE:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE.

GROUND WIRE TO GROUND BAR CONNECTION DETAIL

SCALE: N.T.S

1 / G-1



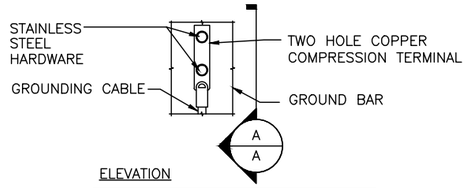
GROUNDING RISER DIAGRAM

SCALE: N.T.S

2 / G-1

AT&T GROUNDING STANDARDS TO BE FOLLOWED:

ATT-TP-76416
ATT-TP-76300
ATT-CEM-18002
ATT-002-290-531
ATT-002-290-701
ATT-CEM-23001



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

SCALE: N.T.S

3 / G-1

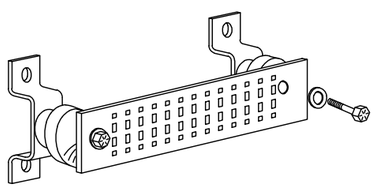
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

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)

SCALE: N.T.S

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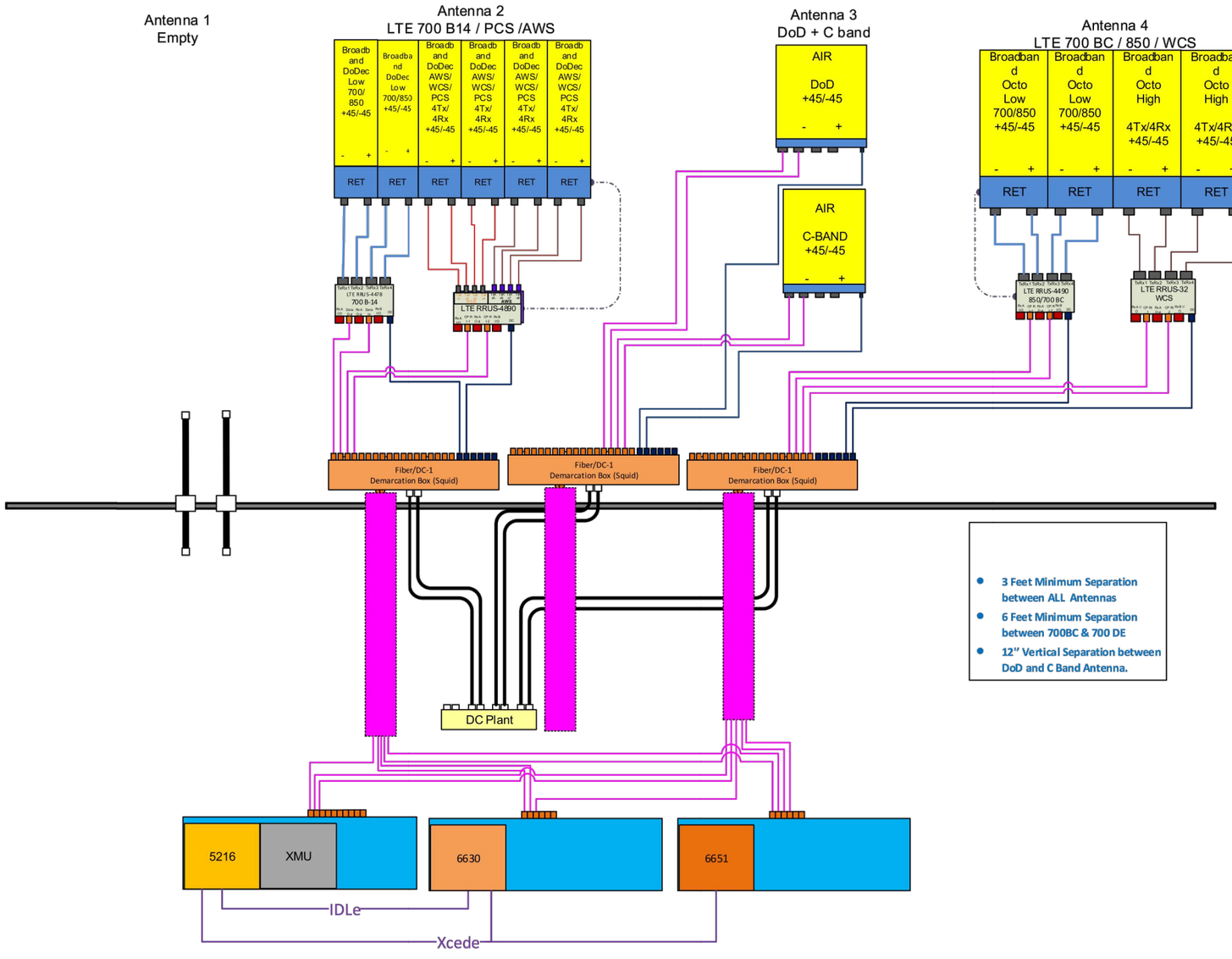
SCALE: AS SHOWN | DESIGNED BY: AT | DRAWN BY: VA

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

AT&T
GROUNDING DETAILS
6CNR, 1SR CBAND, BBU ADD, 4TX4RX, 5G NR 1SR, LTE 4C, LTE 5C SOFTWARE, 5G NR RADIO

SITE NUMBER	DRAWING NUMBER	REV
CTL01076	G-1	4

FINAL APPROVED V6.00 RFDS 02/5/2024



RF PLUMBING DIAGRAM 1
SCALE: N.T.S RF–1

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

NOTE:

REFER TO FINAL APPROVED V6.00 RFDS 02/5/2024

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AT&T
RF PLUMBING DIAGRAM
5G NR 1SR CBAND, BBU ADD, 4TX4RX, 5G NR 1SR, LTE 4C, LTE 5C SOFTWARE, 5G NR RADIO

SITE NUMBER	DRAWING NUMBER	REV
CTL01076	RF–1	4

02/20/2024

Memo: No Initial Zoning Decision Found

Upon consulting with the Building Department it was determined that no initial zoning decision for this tower could be found. The Building Dept phone number is (860) 230-3012.

Carolyn Seeley
Real Estate Specialist
Smartlink