



## Final Report of Special Inspections

Project: CT1083 (10035111)

Location: Glastonbury Police Department, Glastonbury, CT 06033

Owner: AT&T (Glastonbury Police Department)

Engineer of Record: Daniel P. Hamm, P.E.

Tower Engineering Professionals, LLC (TEP OPCO, LLC)

To the best of my information, knowledge and belief, the Special Inspections required by Chapter 17 for the project have been performed and all discovered discrepancies have been reported and resolved.

Representatives of TEP Northeast performed the Final Inspections after the construction of the telecommunications facility at the above-referenced address. The Final Inspection was performed on June 7, 2023.

Based on my knowledge, information and belief the wireless installation substantially conforms to the approved plans, IBC 2015 with 2018 CT State Building Code Amendments, Structural Standards for Antenna Supporting Structures and Antennas (ANSI/TIA-222-H), and the following:

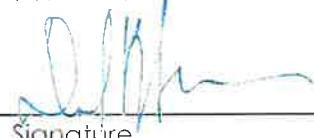
1. Final Construction Drawings dated 11/23/2022, prepared by Hudson Design Group LLC, entitled "Antenna Modifications, 5G NR Activation, 5G NR Software Radio, 5G NR Radio, BBU Reconfigure., 5G NR 1SR CABND, 4TXRX Antenna Retrofit, 2022 Upgrade."
2. Final Mount Structural Analysis dated 04-26-2022, prepared by Hudson Design Group LLC

All deviations from the approved plans do not endanger the intended occupancy of the facility and equipment substitutions are approved as equivalent to the original specifications. This report does not include inspections for the findings of the global stability analysis and modifications to the structure. Those modification inspections, if required, are strictly the responsibility of the tower owner & general contractor performing such design and installation.

Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully submitted,  
Special Inspector

Daniel P. Hamm, P.E.  
(Type or print name)

  
Signature

06-12-2023

Date



Licensed Professional  
Seal

### PROJECT INFORMATION

SCOPE OF WORK: ITEMS TO BE MOUNTED ON THE EXISTING SELF SUPPORT:

- NEW AT&T ANTENNAS: QD6616-7 (TYP. OF 1 PER ALPHA & BETA SECTORS, TOTAL OF 2).
- NEW AT&T ANTENNAS: QD8616-7 (GAMMA SECTOR, TOTAL OF 1).
- NEW AT&T DUAL ANTENNAS: (AIR 6419 B77G) POS 3 (TYP. 1 PER SECTOR, TOTAL OF 3) (STACKED) (TOP).
- NEW AT&T DUAL ANTENNAS: (AIR 6449 B77D) POS 3 (TYP. 1 PER SECTOR, TOTAL OF 3) (STACKED) (BOTTOM).
- NEW AT&T RRUS: 4449 B5/B12 (700) @ POS. 4 (TYP. 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T SURGE ARRESTOR: DC9-48-60-24-8C-EV (TOTAL OF 1).
- NEW AT&T (3) Y-CABLES
- NEW AT&T (3) 6 AWG DC POWER CABLES & (1) 24 PAIRS OF FIBER RUNS.
- RELOCATED EXISTING AT&T ANTENNA: 800-10965 @ POS. 4 (TYP. OF 1 PER ALPHA & BETA SECTORS, TOTAL OF 2).
- RELOCATED EXISTING AT&T ANTENNA: 800-10966 @ POS. 4 (GAMMA SECTOR, TOTAL OF 1).

ITEMS TO BE MOUNTED IN EQUIPMENT LOCATION:

- INSTALL (1) 6648 +XCEDE CABLE.
- FINAL=1x5216-XMU+1x6630+IDLe.
- ADD (3) NEW RECTIFIERS FOR TOTAL (10) RECTIFIERS

ITEMS TO BE REMOVED:

- DECOMMISSION EXISTING AT&T ANTENNA: OPA-65R-LCUU-H6 (TYP. OF 2 PER ALPHA & BETA SECTOR, TOTAL OF 4).
- DECOMMISSION EXISTING AT&T ANTENNA: OPA-65R-LCUU-H8 (TYP. OF 2 PER GAMMA SECTOR, TOTAL OF 2).
- DECOMMISSION EXISTING AT&T TRIPLEXERS: TPX-070821 (TYP. OF 4 PER SECTOR, TOTAL OF 12).
- DECOMMISSION EXISTING AT&T RRUS-11 B12 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- DECOMMISSION EXISTING AT&T RRUS-4478 B5 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- DECOMMISSION EXISTING AT&T (6) 1-1/4" COAX CABLES.
- DECOMMISSION EXISTING AT&T DC6 SURGE ARRESTOR (TOTAL OF 1).
- DECOMMISSION EXISTING (2) 8 AWG DC TRUNKS

ITEMS TO REMAIN:

- (3) ANTENNAS, (15) RRU'S, (2) SURGE ARRESTOR, (6) 1-1/4" COAX CABLES, (4) DC POWER & (2) FIBER.

SITE ADDRESS: GLASTONBURY POLICE DEPARTMENT  
GLASTONBURY, CT 06033

LATITUDE: 41.7062139° N, 41° 42' 22.37" N

LONGITUDE: -72.6069161° W, 72° 36' 24.89" W

TYPE OF SITE: SELF SUPPORT TOWER / INDOOR EQUIPMENT

STRUCTURE HEIGHT: 170'-0"±

RAD CENTER: 166'-0"±

CURRENT USE: TELECOMMUNICATIONS FACILITY

PROPOSED USE: TELECOMMUNICATIONS FACILITY

### DRAWING INDEX

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**HUDSON**  
Design Group LLC



45 BEECHWOOD DRIVE  
NORTH ANDOVER, MA 01845

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

750 WEST CENTER STREET, SUITE #301  
WEST BRIDGEWATER, MA 02379

SITE NUMBER: CTL01083  
SITE NAME: GLASTONBURY PD

GLASTONBURY POLICE DEPARTMENT  
GLASTONBURY, CT 06033  
HARTFORD COUNTY



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

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Centerline Communications  
Jill Stewart  
3/31/2023 11:00 AM



at&t

SITE NUMBER: CTL01083

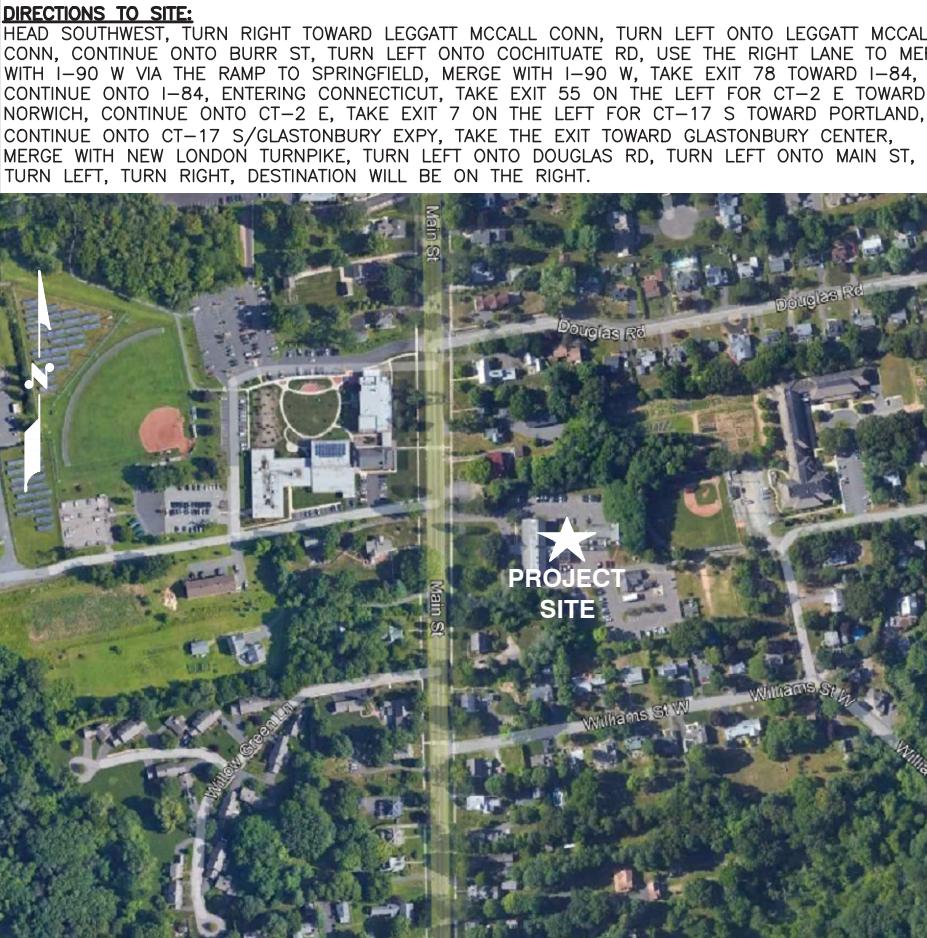
SITE NAME: GLASTONBURY PD

FA CODE: 10035111

PACE ID: MRCTB062515, MRCTB057900, MRCTB057753, MRCTB058148,  
MRCTB052352, MRCTB050834, MRCTB050977, MRCTB050960

PROJECT: ANTENNA MODIFICATIONS, 5G NR ACTIVATION, 5G NR  
SOFTWARE RADIO, 5G NR RADIO, BBU RECONFIG., 5G NR 1SR CBAND,  
4TXRX ANTENNA RETROFIT, 2022 UPGRADE

### VICINITY MAP



### 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



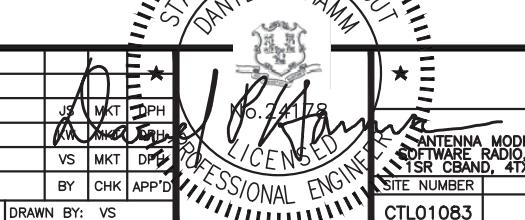
CALL  
BEFORE YOU DIG



CALL TOLL FREE 1-800-922-4455

OR CALL 811

UNDERGROUND SERVICE ALERT



AT&T

TITLE SHEET  
ANTENNA MODIFICATIONS, 5G NR ACTIVATION, 5G NR  
SOFTWARE RADIO, 5G NR RADIO, BBU RECONFIG., 5G NR  
1SR CBAND, 4TXRX ANTENNA RETROFIT 2022 UPGRADE  
PROFESSIONAL ENGINEER  
SITES NUMBER DRAWING NUMBER REV  
CTL01083 T-1 1

## GROUNDING NOTES

- 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.
- 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.
- 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.
- 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.
- 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.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO GROUND BAR.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- 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.
- 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

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Jill Stewart  
3/31/2023 11:00 AM

## GENERAL NOTES

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 

CONTRACTOR – CENTERLINE  
SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)  
OWNER – AT&T MOBILITY
- 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.
- 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.
- DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- "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.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 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.
- 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.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAVED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- 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.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.

- 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.
- 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.
- CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T SITES."
- 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.
- 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.
- 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.

- 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;

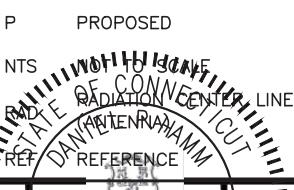
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION;

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.

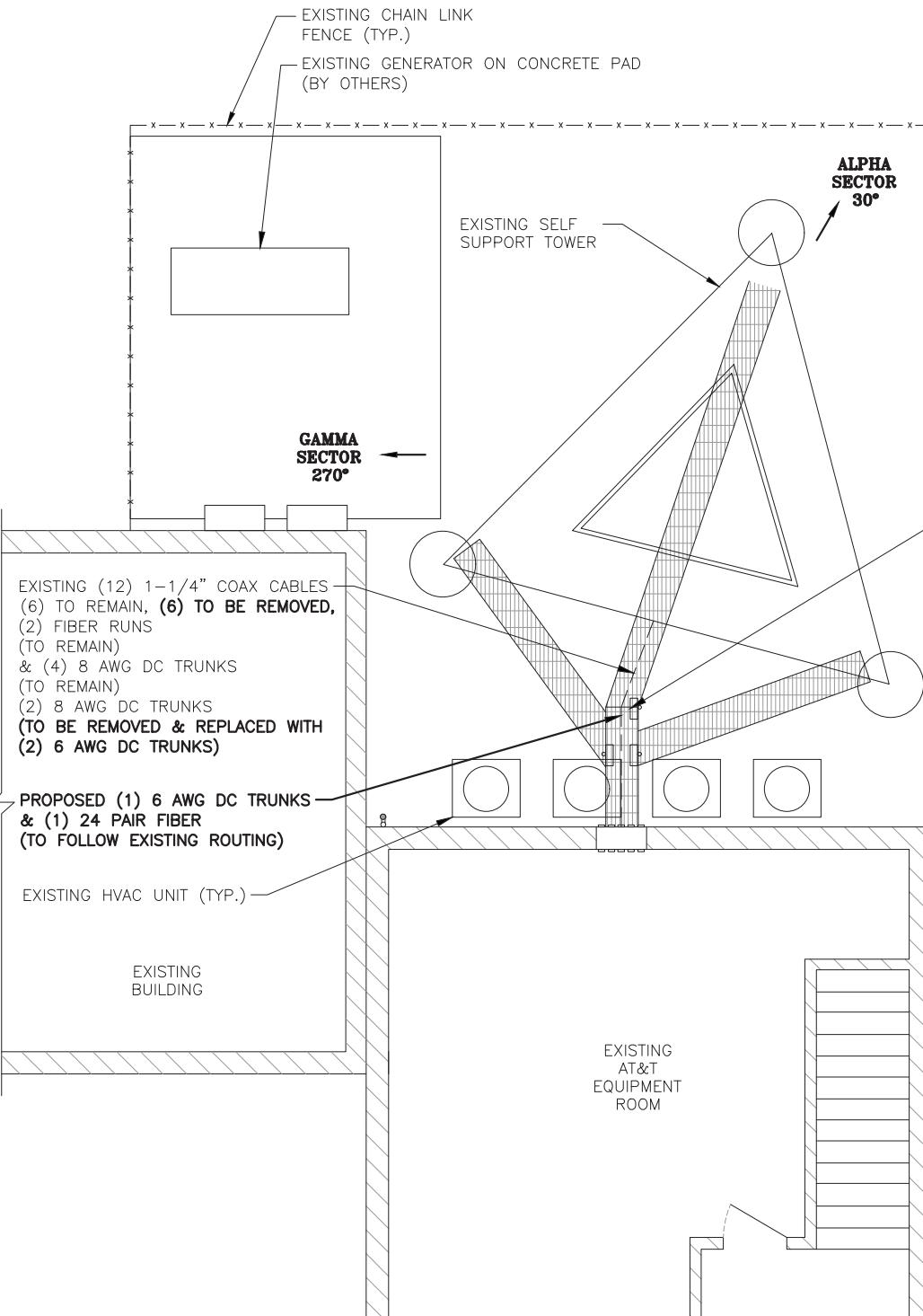
## ABBREVIATIONS

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	NOTICE TO SUBMIT	UG	UNDER GROUND
EGB	EQUIPMENT GROUND BAR	RAD	RADIATION	VIF	VERIFY IN FIELD
EGR	EQUIPMENT GROUND RING	REF	REFERENCE		



AT&T

GENERAL NOTES  
ANTENNA MODIFICATIONS, 5G NR ACTIVATION, 5G NR SOFTWARE, RADIO, 5G NR RADIO, BBU RECONFIG., 5G NR 1SR CBAND, 4TXRX ANTENNA RETROFIT 2022 UPGRADE  
SITE NUMBER DRAWING NUMBER REV  
CTL01083 GN-1 1



COMPOUND PLAN

22x34 SCALE: 1/4"=1'-0"  
11x17 SCALE: 1/8"=1'-0"

0 2'-0" 4'-0" 8'-0" 12'-0"

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3/31/2023 11:00 AM

1 11/23/22 ISSUED FOR CONSTRUCTION  
B 08/30/22 ISSUED FOR PERMITTING  
A 04/13/22 ISSUED FOR REVIEW

NO. DATE REVISIONS BY CHK APP'D

SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: VS



HUDSON  
Design Group LLC



45 BEECHWOOD DRIVE  
NORTH ANDOVER, MA 01845

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

750 WEST CENTER STREET, SUITE #301  
WEST BRIDGEWATER, MA 02379

SITE NUMBER: CTL01083  
SITE NAME: GLASTONBURY PD

GLASTONBURY POLICE DEPARTMENT  
GLASTONBURY, CT 06033  
HARTFORD COUNTY



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

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: APRIL 26, 2022

EXISTING (12) 1-1/4" COAX CABLES (6) TO REMAIN, (6) TO BE REMOVED, (2) FIBER RUNS (TO REMAIN) & (4) 8 AWG DC TRUNKS (TO REMAIN)  
(2) 8 AWG DC TRUNKS (TO BE REMOVED & REPLACED WITH (2) 6 AWG DC TRUNKS)

EXISTING HVAC UNIT  
EXISTING COAX CABLE PORT (TYP.) (NO EMPTY PORTS)

EXISTING FIBER MANAGEMENT BOX MOUNTED ON ICE BRIDGE POST (TOTAL OF 3)

EXISTING ACCESS GATE

EXISTING AT&T LTE GPS ANTENNA

EXISTING HVAC UNIT

EXISTING AT&T 3206 UMTS CABINET

EXISTING AT&T LTE FIF RACK

INSTALL (1) NEW 6648+XCEDE CABLE FINAL=1X6601/1X5216-1X-XMU 311/ 1X6630 MIXED MODEL /+IDLE//1X6618 + IDLE XCEDE

EXISTING AT&T AC BREAKER PANEL

EXISTING AT&T MANUAL TRANSFER SWITCH

EXISTING AT&T NOKIA GSM CABINET (TO BE DECOMMISSIONED)

EXISTING AT&T GENERATOR INTERFACE

EXISTING AT&T GALAXY -48V DC POWER PLANT WITH (7) -48V RECTIFIERS & (3) +24V CONVERTERS WITH (3) STRINGS OF 170AH BATTERIES BELOW (TO REMAIN)

13'60' MAGNETIC NORTH TRUE NORTH

EXISTING AT&T RRUS RACK

EXISTING AT&T RRUS E2 B29 (700) (TYP. OF 1 PER SECTOR, TOTAL OF 3) (TO REMAIN)

EXISTING AT&T 4478 B5 (850) (TYP. OF 1 PER SECTOR, TOTAL OF 3) (TO BE REMOVED)

EXISTING TABLE

EXISTING ACCESS DOOR

EXISTING TELCO BOARD

EQUIPMENT PLAN

22x34 SCALE: 3/8"=1'-0"  
11x17 SCALE: 3/16"=1'-0"

0 2'-0" 4'-0" 8'-0"

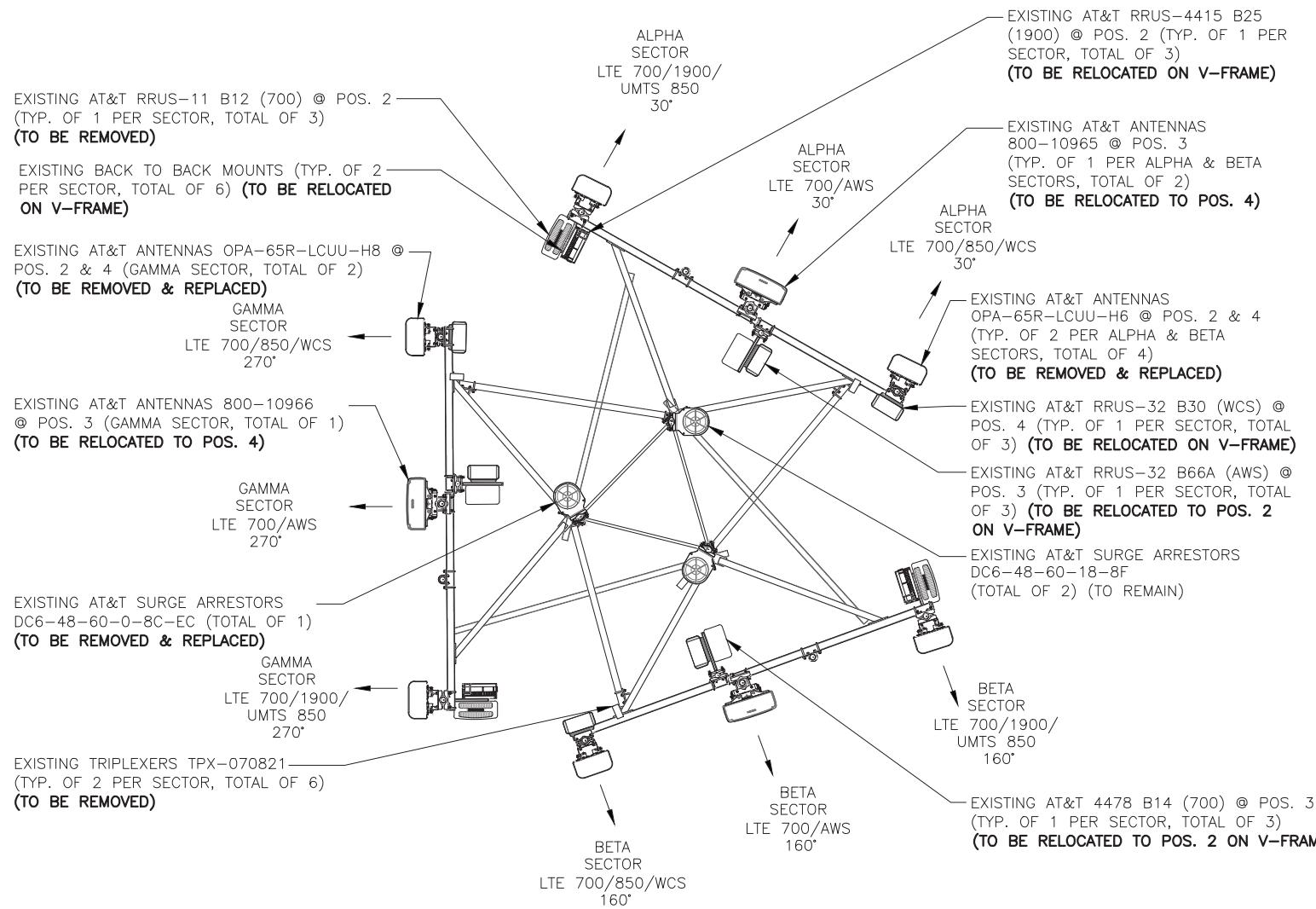
STATE OF CONNECTICUT  
DANIEL P. HAMM  
LICENSED PROFESSIONAL ENGINEER  
NO. 24778  
EXPIRED 10/27/2025  
AT&T

COMPOUND & EQUIPMENT PLANS  
ANTENNA MODIFICATIONS, 5G NR ACTIVATION, 5G NR SOFTWARE RADIO, 5G NR RADIO, BBU RECONFIG., 5G NR 1SR CBAND, 4TRX ANTENNA RETROFIT 2022 UPGRADE  
SITE NUMBER DRAWING NUMBER REV  
CTL01083 A-1 1

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**Centerline Communications**  
**Jill Stewart**  
**3/31/2023 11:00 AM**

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

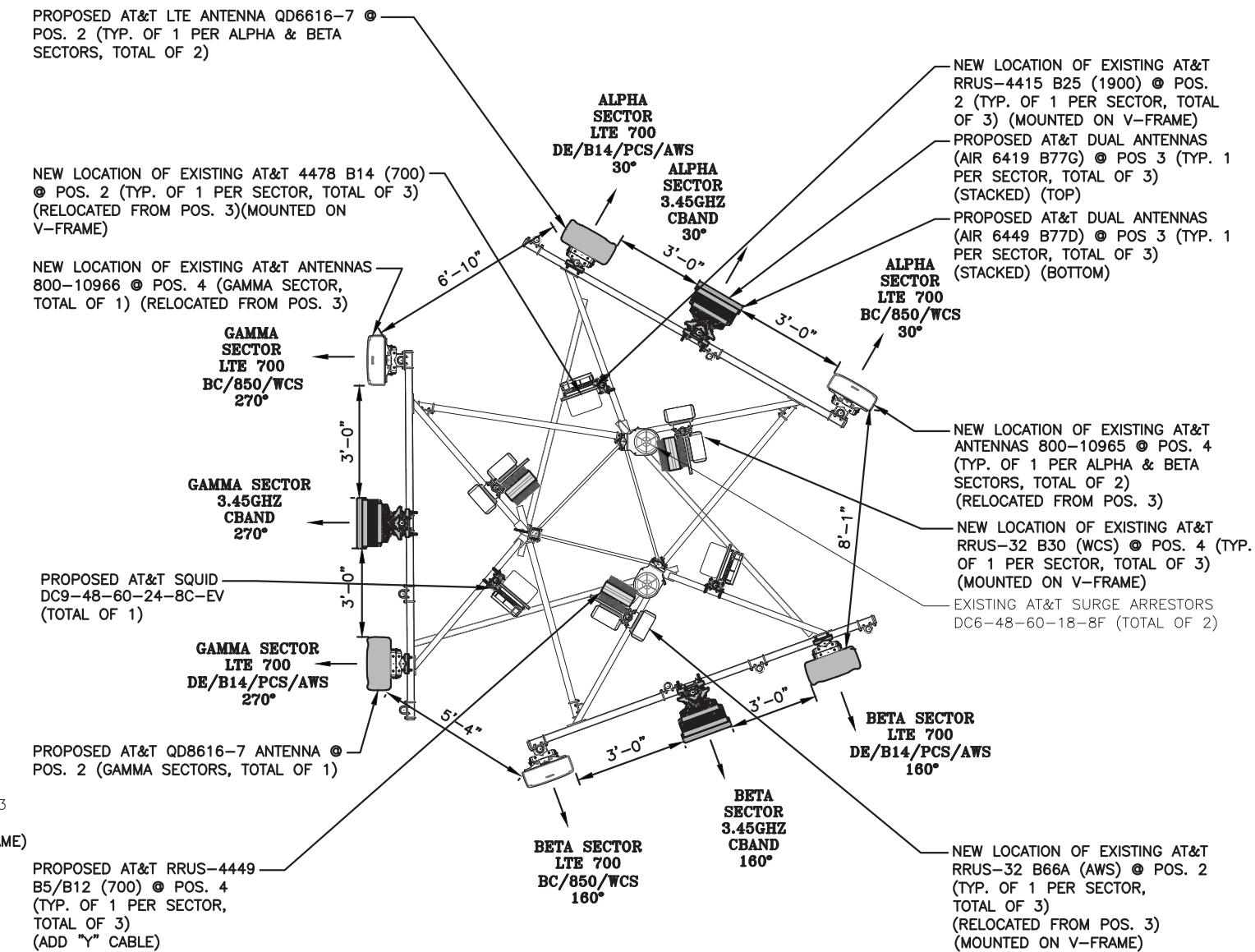
NOTE:  
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY: HUDSON DESIGN GROUP, LLC. DATED: APRIL 26, 2022



**EXISTING ANTENNA PLAN**

22x34 SCALE: 3/8"=1'-0"  
11x17 SCALE: 3/16"=1'-0"

0 5'-4" 10'-8" 21'-4" 32'-0"



**PROPOSED ANTENNA PLAN**

22x34 SCALE: 3/8"=1'-0"  
11x17 SCALE: 3/16"=1'-0"

0 5'-4" 10'-8" 21'-4" 32'-0"

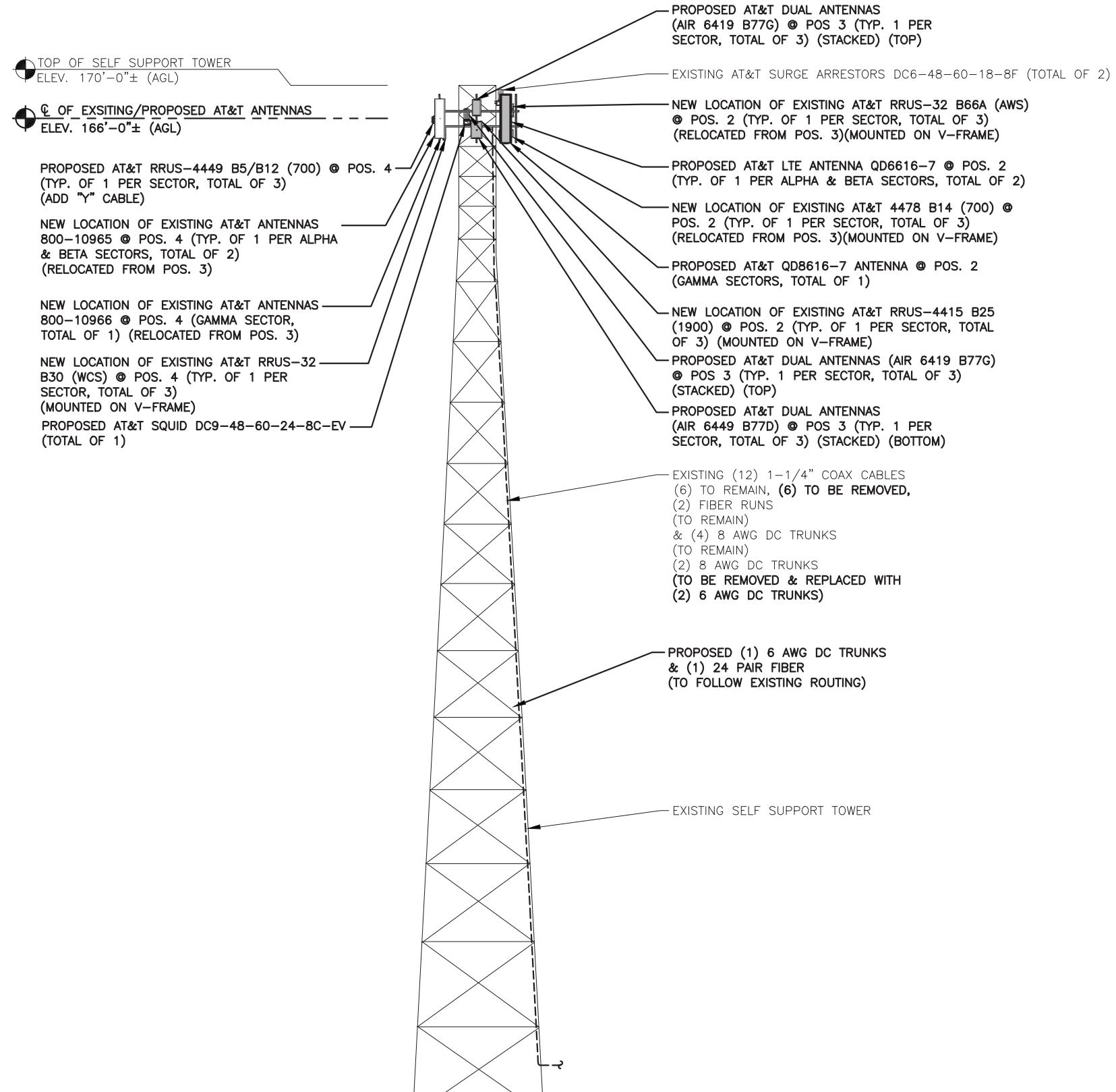


**AT&T**

EXISTING & PROPOSED ANTENNA LAYOUT PLANS  
ANTENNA MODIFICATIONS, 5G NR ACTIVATION, 5G NR SOFTWARE, RADIO, 5G NR RADIO, BBU RECONFIG., 5G NR 1SR CBAND, 4TXRX ANTENNA RETROFIT 2022 UPGRADE

**PROFESSIONAL ENGINEER**  
**LICENSED IN CONNECTICUT**  
**STATE OF CONNECTICUT**  
**DANIEL P. RYAN**  
**NO. 24175**  
**RECEIVED**  
**APR 26 2022**  
**AT&T**

**SITE NUMBER** CTL01083 **DRAWING NUMBER** A-2 **REV** 1



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: APRIL 26, 2022

As-Built  
Centerline Communications  
Jill Stewart  
3/31/2023 11:00 AM

NOTE:  
EXISTING GROUND EQUIPMENT NOT  
SHOWN FOR CLARITY.

SITE NUMBER: CTL01083  
SITE NAME: GLASTONBURY PD

GLASTONBURY POLICE DEPARTMENT  
GLASTONBURY, CT 06033  
HARTFORD COUNTY

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

**CENTERLINE**  
COMMUNICATIONS

750 WEST CENTER STREET, SUITE #301  
WEST BRIDGEWATER, MA 02379

**at&t**

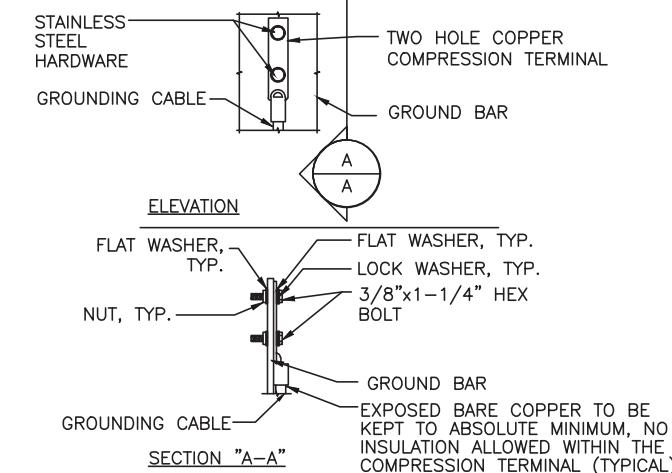
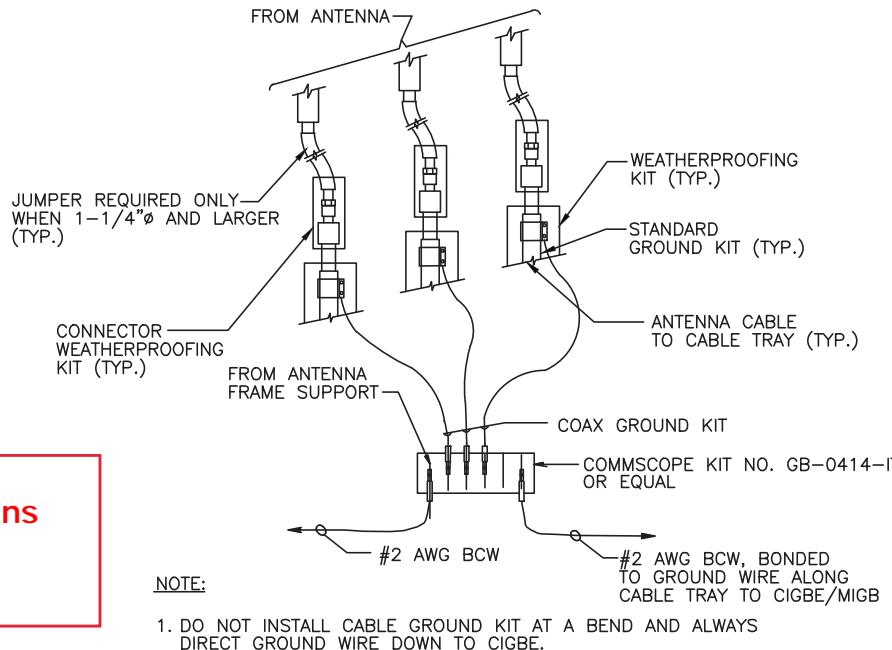
500 ENTERPRISE DRIVE, SUITE 3A  
ROCKY HILL, CT 06067



AT&T  
ELEVATION  
ANTENNA MODIFICATIONS, 5G NR ACTIVATION, 5G NR  
SOFTWARE RADIO, 5G NR RADIO, BBU RECONFIG., 5G NR  
1SR CBAND, 4TXRX ANTENNA RETROFIT 2022 UPGRADE  
LICENSED  
PROFESSIONAL ENGINEER  
SITE NUMBER: CTL01083  
DRAWING NUMBER: A-3  
REV: 1

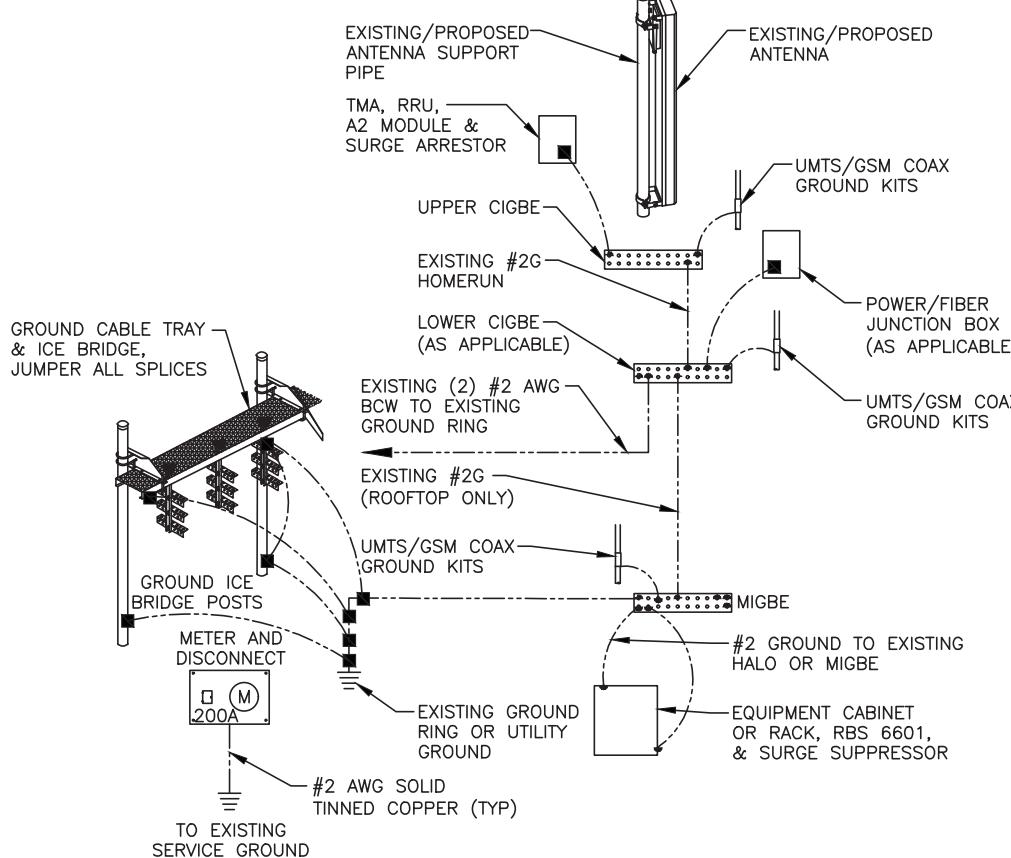
NO.	DATE	REVISIONS	BY	CHK	APP'D
1	11/23/22	ISSUED FOR CONSTRUCTION	JS	MKT	DPH
B	08/30/22	ISSUED FOR PERMITTING	KW	MKT	DPH
A	04/13/22	ISSUED FOR REVIEW	VS	MKT	DPH
SCALE:	AS SHOWN	DESIGNED BY: AT	DRAWN BY: VS		





**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

**GROUND WIRE TO GROUND BAR CONNECTION DETAIL** 1  
G-1



**GROUNDING RISER DIAGRAM** 2  
G-1

**TYPICAL GROUND BAR CONNECTION DETAIL** 3  
G-1

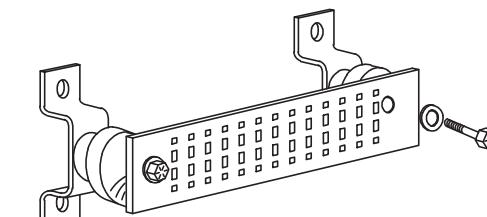
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

**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)** E  
G-1



AT&T

GROUNDING DETAILS  
ANTENNA MODIFICATIONS, 5G NR ACTIVATION, 5G NR  
SOFTWARE RADIO, 5G NR RADIO, BBU RECONFIG., 5G NR  
1SR CBAND, 4TXRX ANTENNA RETROFIT 2022 UPGRADE  
PROFESSIONAL ENGINEER  
SITE NUMBER DRAWING NUMBER REV  
CTL01083 G-1 1



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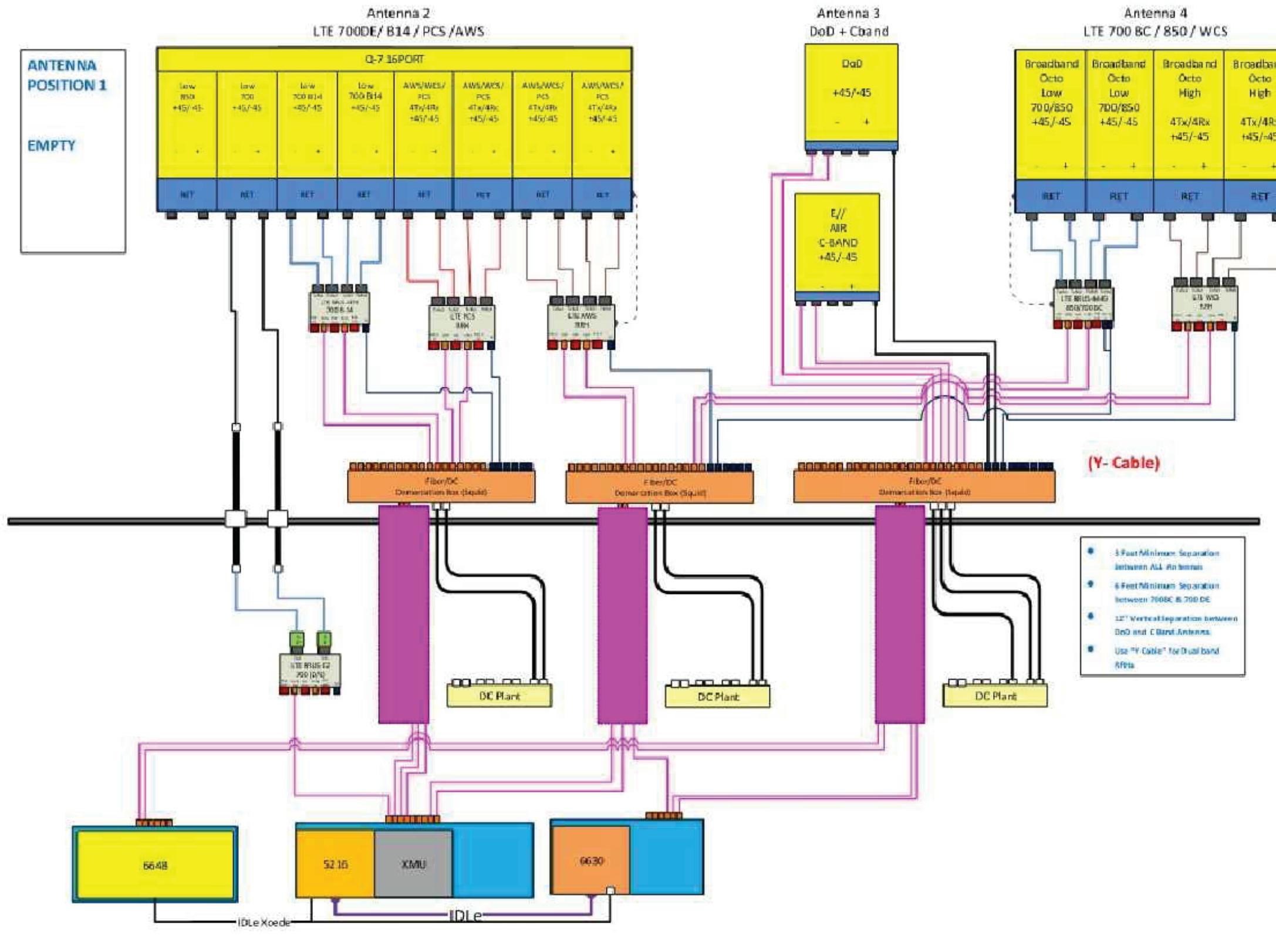
SITE NUMBER: CTL01083  
SITE NAME: GLASTONBURY PD

GLASTONBURY POLICE DEPARTMENT  
GLASTONBURY, CT 06033  
HARTFORD COUNTY



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

NO.	DATE	REVISIONS	BY	CHK APP'D	REV
1	11/23/22	ISSUED FOR CONSTRUCTION	JS	MKT DPH	E *
B	08/30/22	ISSUED FOR PERMITTING	KW	MKT DPH	10.24.78
A	04/13/22	ISSUED FOR REVIEW	VS	MKT DPH	UP/Hamm
NO.	DATE	REVISIONS	BY	CHK APP'D	REV
			VS		
SCALE:	AS SHOWN	DESIGNED BY:	AT	DRAWN BY:	VS



**As-Built**  
Centerline Communications  
Jill Stewart  
3/31/2023 11:00 AM

**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.