



768 Southleaf Dr.
Virginia Beach, VA 23462
aconwell@clinellc.com
215.588.7035

May 15, 2023

Melanie A. Bachman
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: Notice of Exempt Modifications – AT&T Site CT2312
AT&T Telecommunications Facility @ 52 Stadley Rough Rd Danbury, CT 06811

Dear Ms. Bachman,

New Cingular Wireless, PCS, LLC (“AT&T”) currently maintains a wireless telecommunications facility on an existing +/- 140’ monopole tower at the above referenced address, latitude 41.4331028, longitude -73.4319167. Said monopole tower is owned and managed by SBA Towers II, LLC.

AT&T desires to modify its existing telecommunications facility by replacing existing mount with new mount, replacing three (3) antennas, adding three (3) antennas, replacing six (6) RRUs, removing two (2) TMAs, removing six (6) diplexers, and replacing one (1) surge arrestor with the associated cables as more particularly detailed and described on the enclosed Construction Drawings prepared by TEP Northeast, last revised on March 8, 2023. The centerline height of the existing antennas is and will remain at 109 feet, as well as 107 feet and 104 feet.

Please accept this letter as notification pursuant to R.C.S.A §16-50j-73 for construction that constitutes an exempt modification pursuant to R.C.S.A §16-50j-72(b)(2). In accordance with R.C.S.A §16-50j-73, a copy of this letter is being sent to the following individuals: Dean Esposito, Mayor for the City of Danbury; Sharon Calitro, Director of Planning & Zoning; SBA Towers II, LLC as tower owner and Christ The Shepherd Church PCA as property owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. §16-50j-72(b)(2). Specifically:

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require an extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the modified facility will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commissions safety standard. *Please see the RF emissions calculation for AT&T's modified facility enclosed herewith.*
5. The proposed modifications will not cause an ineligible change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading. Please see the structural analysis dated May 4, 2023 and prepared by SBA enclosed herewith.

For the foregoing reasons, AT&T respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under R.C.S.A §16-50j-72(b)(2).

Best Regards,

Allison Conwell

*Site Acquisition Consultant – Agent for AT&T
Centerline Communications LLC
750 West Center St. Ste 301
West Bridgewater, MA 02379
215-588-7035
aconwell@clinellc.com*

Enclosures: Exhibit 1 – Construction Drawings
 Exhibit 2 – Property Card and GIS
 Exhibit 3 – Structural Analysis
 Exhibit 4 – Mount Analysis
 Exhibit 5 – RF Emissions Analysis Report Evaluation
 Exhibit 6 – Available Town of Prospect Original Tower Approval Records
 Exhibit 7 – Notice Deliver Confirmations

Cc: Dean Esposito, as elected official, City of Danbury
 Sharon Calitro Director of Planning & Zoning, City of Danbury
 George O'Neil, SBA Towers II, LLC, as tower owner
 Christ The Shepherd Church PCA as property owner

Centerline Communications

750 W Center St #301
 WEST BRIDGEWATER, MA 02379
 (844) 748-8878

Centerline Disbursement

00041745

Date: 04/19/2023

Memo: 2051A11MSN

Pay To
 The Order Of **CONNECTICUT SITING COUNCIL**

*****Six Hundred Twenty Five Dollars**********625.00*****

CONNECTICUT SITING COUNCIL
 United States


00041745**002922009879**

Centerline Communications
 VEN-010420--CONNECTICUT SITING COUNCIL
 Print As: CONNECTICUT SITING COUNCIL

00041745

Centerline Disbursement

B-003 9879

Date: 04/19/2023

Date	Bill #	Reference Number	Amount Due	Term Discount	Amount Paid/Applied
04/19/2023	566608-030-4/19	00041745	\$625.00	\$0.00	\$625.00
Net Amount: \$625.00					

Page 1 of 1

Centerline Communications
 VEN-010420--CONNECTICUT SITING COUNCIL
 Print As: CONNECTICUT SITING COUNCIL

00041745

Centerline Disbursement

B-003 9879

Date: 04/19/2023

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04/19/2023	566608-030-4/19	00041745	\$625.00	\$0.00	\$625.00
Net Amount: \$625.00					

Details on Back.

Security Features Included

EXHIBIT 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

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



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

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

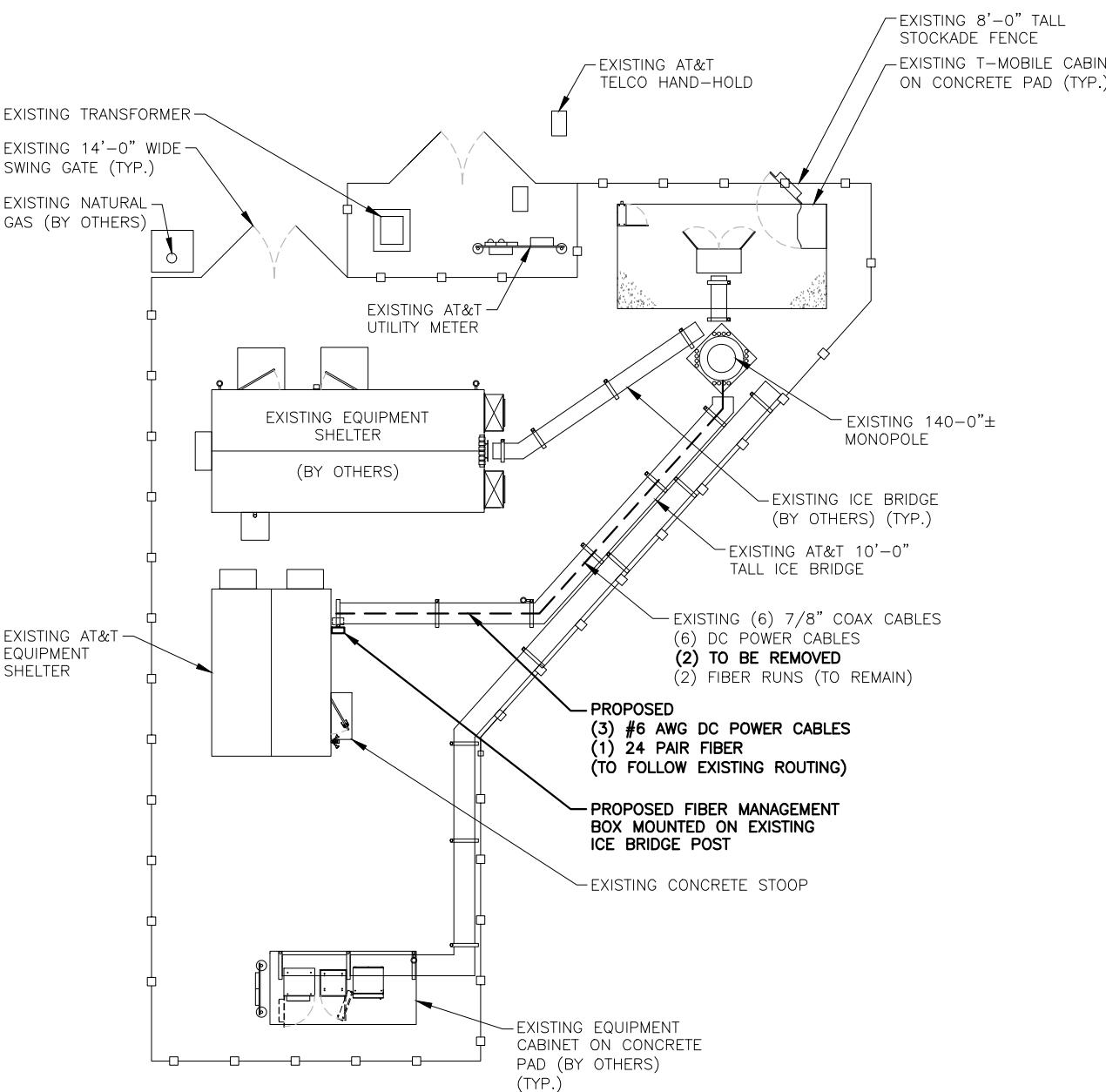
SITE NUMBER: CTL02312
SITE NAME: DANBURY STADLEY ROUGH ROAD

52 STADLEY ROUGH ROAD
DANBURY, CT 06811
FAIRFIELD COUNTY



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

1	03/08/23	ISSUED FOR CONSTRUCTION	NO. 74178
A	10/10/22	ISSUED FOR REVIEW	DATE
NO.	DATE	REVISIONS	BY CHK APP'D
SCALE:	AS SHOWN	DESIGNED BY: AT	DRAWN BY: KW
PROFESSIONAL ENGINEER'S SIGNATURE			
AT&T GENERAL NOTES			
5G NR 1SR CBAND, CELL SITE RF MODIFICATION, LTE 6C, LTE NEXT CARRIER, 5G NR RADIO			
SITE NUMBER	DRAWING NUMBER	REV	
CTL02312	GN-1	1	



NOTE TO GENERAL CONTRACTOR: (PRIOR TO CONSTRUCTION COMPLETION)

- TEP NORTHEAST (TEP OPCO, LLC.) TO PERFORM POST/CLIMB AND INSPECTION TO CONFIRM PROPOSED INSTALLATION COMPLIES WITH THE RECORD STAMPED DRAWINGS AND STRUCTURAL REPORTS PRIOR TO SUBMITTING FCCA (FINAL CONSTRUCTION CONTROL AFFIDAVIT). GC IS RESPONSIBLE FOR COORDINATING INSPECTIONS WITH TEP NORTHEAST (TEP OPCO, LLC.) PRIOR TO CONSTRUCTION BEING COMPLETED.

NOTE:

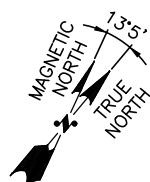
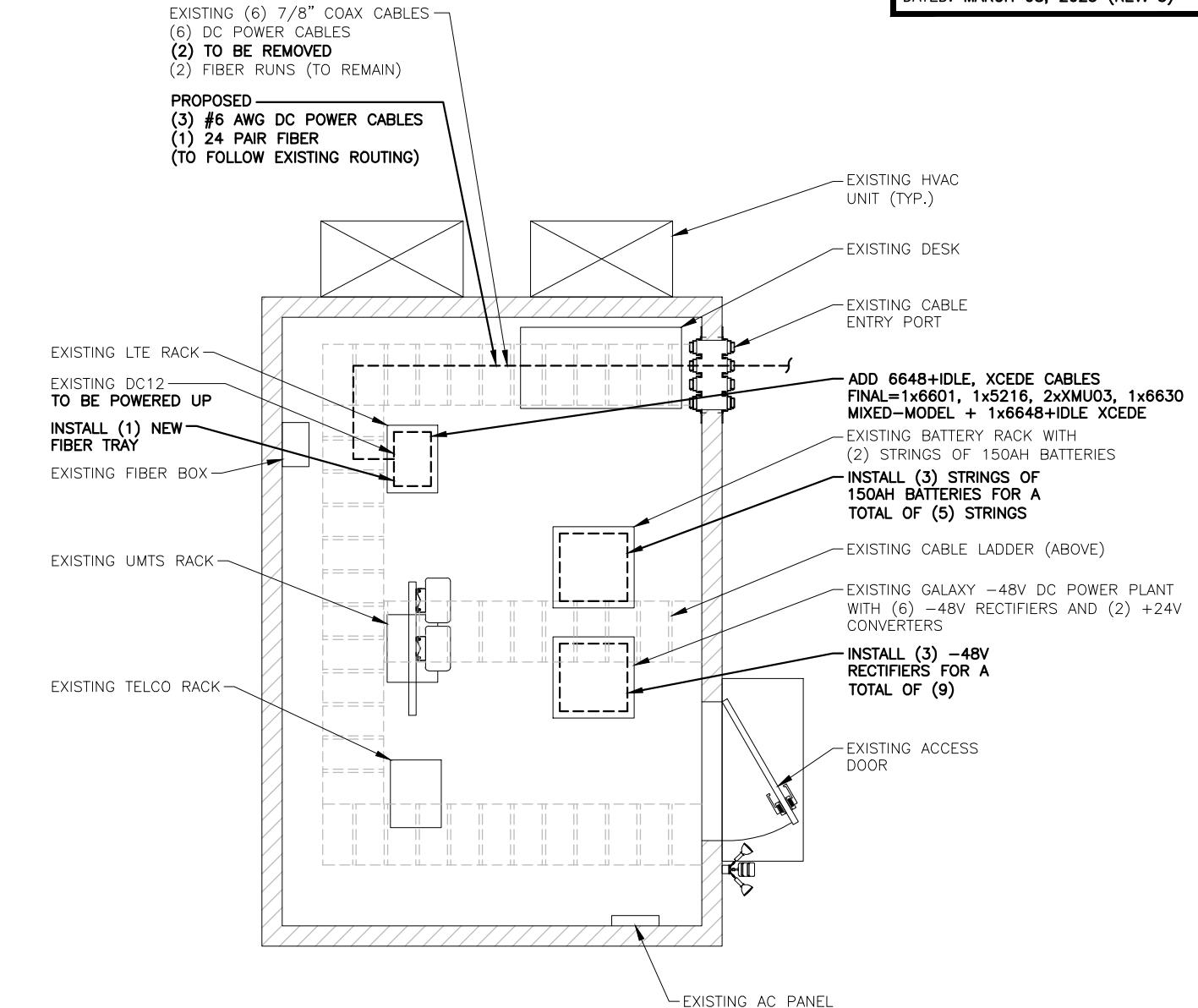
ALL EQUIPMENT INSTALLATIONS ARE PENDING THE COMPLETION OF A STRUCTURAL ANALYSIS OF THE EXISTING STRUCTURE.

NOTE:

REFER TO THE FINAL RF DATA SHEET V4.0 DATED 02/09/23 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: MARCH 08, 2023 (REV. 3)



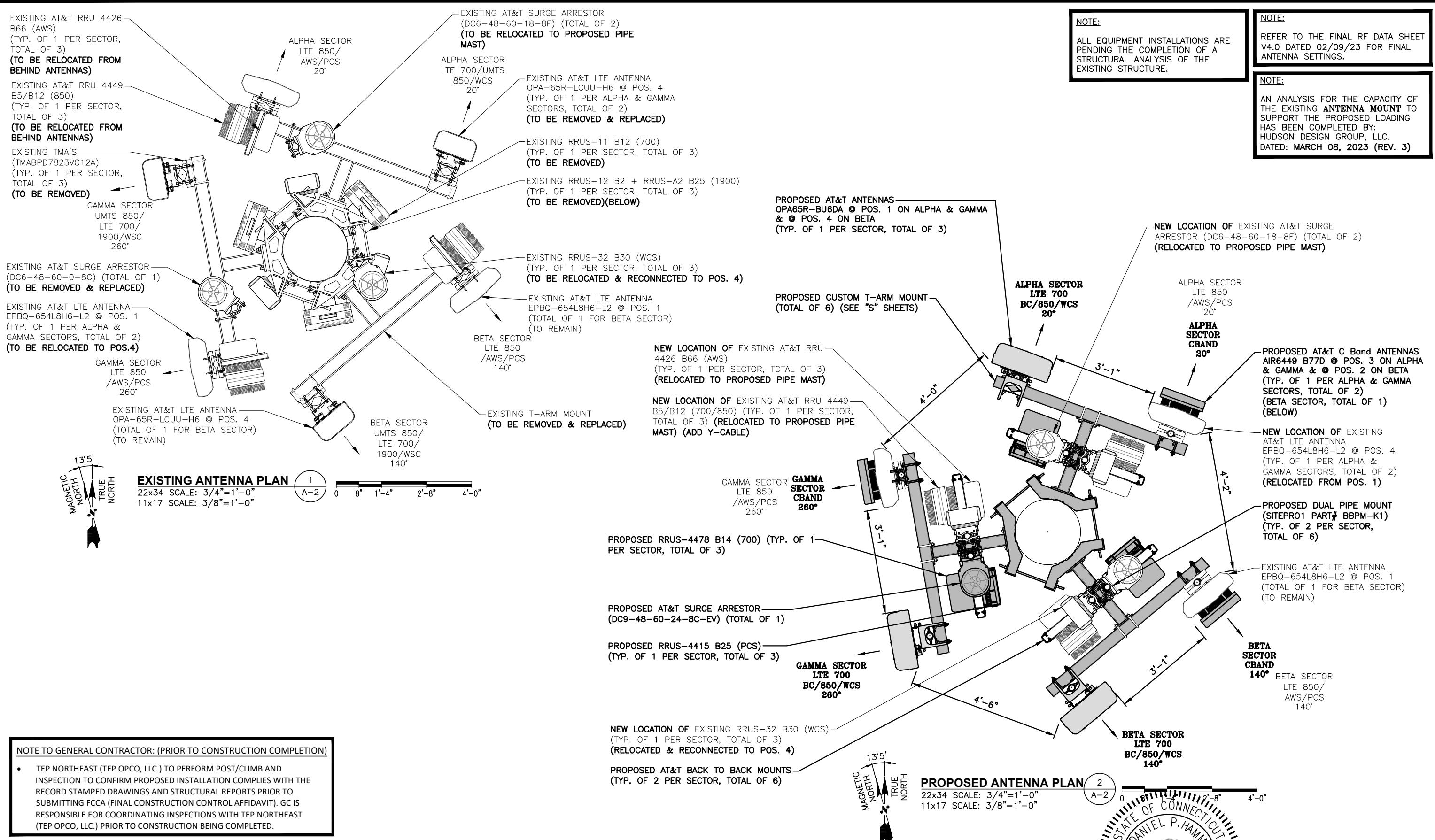
COMPOUND PLAN
22x34 SCALE: 1/8"=1'-0"
11x17 SCALE: 1/16"=1'-0"

0 4'-0" 8'-0" 16'-0" 24'-0"



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

4'-0" 6'-0"



TOP OF MONPOLE
ELEV. 140'-0"± (AGL)

NEW LOCATION OF EXISTING AT&T RRU 4449-B5/B12 (700/850) (TYP. OF 1 PER SECTOR, TOTAL OF 3) (RELOCATED TO PROPOSED PIPE MAST) (ADD Y-CABLE)

NEW LOCATION OF EXISTING AT&T LTE ANTENNA EPBQ-654L8H6-L2 @ POS. 4 (TYP. OF 1 PER ALPHA & GAMMA SECTORS, TOTAL OF 2) (RELOCATED FROM POS. 1)

Q OF EXISTING AT&T ANTENNAS
ELEV. 109'-0"± (AGL)
Q OF PROPOSED AT&T ANTENNAS
ELEV. 107'-0"± (AGL)
Q OF PROPOSED AT&T ANTENNAS
ELEV. 103'-9"± (AGL)
Q OF EXISTING ANTENNA (BY OTHERS)
ELEV. 97'-0"± (AGL)

PROPOSED AT&T C Band ANTENNAS
AIR6449 B77D @ POS. 3
(TYP. OF 1 PER ALPHA & GAMMA SECTORS, TOTAL OF 2) (BETA SECTOR, TOTAL OF 1) (BELOW)

NEW LOCATION OF EXISTING RRUS-32 B30 (WCS) (TYP. OF 1 PER SECTOR, TOTAL OF 3) (RELOCATED & RECONNECTED TO POS. 4)

PROPOSED AT&T SURGE ARRESTOR (DC9-48-60-24-8C-EV) (TOTAL OF 1)
PROPOSED RRUS-4478 B14 (700) @ POS. 2 (TYP. OF 1 PER SECTOR, TOTAL OF 3)

PROPOSED CUSTOM T-ARM MOUNT (TOTAL OF 2) (SEE "S" SHEETS)
PROPOSED AT&T ANTENNAS OPA65R-BU6DA @ POS. 1 ON ALPHA & GAMMA & @ POS. 4 ON BETA (TYP. OF 1 PER SECTOR, TOTAL OF 3)

PROPOSED RRUS-4415 B25 (1900) @ POS. 2 (TYP. OF 1 PER SECTOR, TOTAL OF 3)

NEW LOCATION OF EXISTING AT&T RRU 4426 B66 (AWS) (TYP. OF 1 PER SECTOR, TOTAL OF 3) (RELOCATED TO PROPOSED PIPE MAST)

EXISTING ANTENNA BY OTHERS (TYP.)

EXISTING (6) 7/8" COAX CABLES
(6) DC POWER CABLES
(2) TO BE REMOVED
(2) FIBER RUNS (TO REMAIN)

PROPOSED
(3) #6 AWG DC POWER CABLES
(1) 24 PAIR FIBER
(TO FOLLOW EXISTING ROUTING)

EXISTING MONPOLE

NOTE:
EXISTING GROUND EQUIPMENT
NOT SHOWN FOR CLARITY.

GROUND LEVEL
ELEV. 0'-0"± (AGL)

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

1
A-3



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

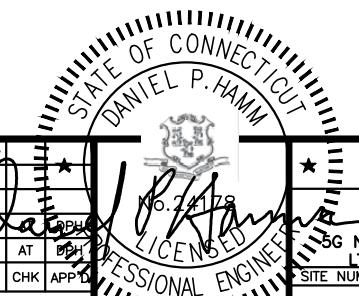
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NOTE:
ALL EQUIPMENT INSTALLATIONS ARE PENDING THE COMPLETION OF A STRUCTURAL ANALYSIS OF THE EXISTING STRUCTURE.

NOTE TO GENERAL CONTRACTOR: (PRIOR TO CONSTRUCTION COMPLETION)

- TEP NORTHEAST (TEP OPCO, LLC.) TO PERFORM POST/CLIMB AND INSPECTION TO CONFIRM PROPOSED INSTALLATION COMPLIES WITH THE RECORD STAMPED DRAWINGS AND STRUCTURAL REPORTS PRIOR TO SUBMITTING FCCA (FINAL CONSTRUCTION CONTROL AFFIDAVIT). GC IS RESPONSIBLE FOR COORDINATING INSPECTIONS WITH TEP NORTHEAST (TEP OPCO, LLC.) PRIOR TO CONSTRUCTION BEING COMPLETED.

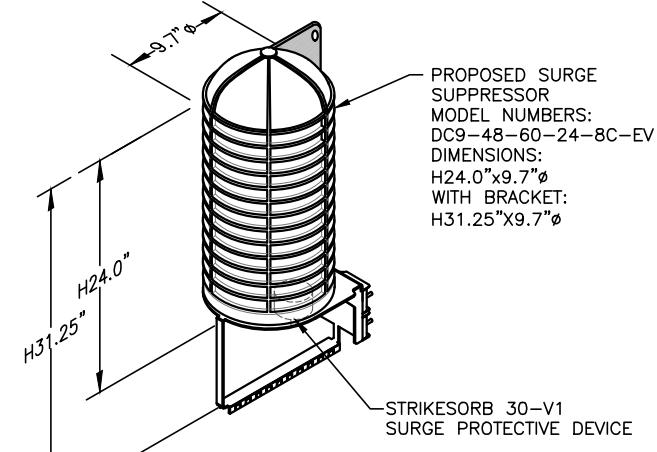


ANTENNA SCHEDULE											
SECTOR	EXISTING/PROPOSED	BAND	ANTENNA	SIZE (INCHES) (L x W x D)	ANTENNA HEIGHT	AZIMUTH	TMA/ DIPLEXER	RRU	SIZE (INCHES) (L x W x D)	FEEDER	RAYCAP
A1	PROPOSED	LTE B14/PCS/AWS	OPA65R-BU6DA	71.2"x21"x7.8"	107'-0"±	20°	-	(E)(1)4449 B5/B12 (850/700) (E)(1)RRUS-32 B30 (WCS)	-	(P)(3) #6 AWG DC POWER (P)(1) 24 PAIR FIBER RUN (APPROX. LENGTH 175'±) (P)(1) Y-CABLE	(P)(1) RAYCAP DC9-48-60-24-8C-EV
A2	-	-	-	-	-	-	-	-	-	-	
A3	PROPOSED (BELOW)	C-BAND	AIR6449 B77D	30.6"x15.9"x10.6"	103'-9"±	20°	-	-	-	-	
A4	EXISTING (ABOVE)	LTE 700 BC/ 850/WCS	EPBQ-654L8H6-L2	73"x21"x6.3"	109'-0"±	20°	-	(P)(1)4478 B14 (700) (P)(1)4415 B25 (1900) (E)(1)4426 B66 (AWS)	18.1"x13.4"x8.3" 16.5"x13.4"x5.9" -	(E)(2) 7/8 COAX	
B1	EXISTING (ABOVE)	LTE 700 BC/ 850/WCS	EPBQ-654L8H6-L2	73"x21"x6.3"	109'-0"±	140°	-	(P)(1)4478 B14 (700) (P)(1)4415 B25 (1900) (E)(1)4426 B66 (AWS)	18.1"x13.4"x8.3" 16.5"x13.4"x5.9" -	(E)(2) 7/8 COAX (E)(2) DC POWER (E)(1) FIBER	
B2	PROPOSED (BELOW)	C-BAND	AIR6449 B77D	30.6"x15.9"x10.6"	103'-9"±	140°	-	-	-	-	
B3	-	-	-	-	-	-	-	-	-	-	
B4	PROPOSED	LTE B14/PCS/AWS	OPA65R-BU6DA	71.2"x21"x7.8"	107'-0"±	140°	-	(E)(1)4449 B5/B12 (850/700) (E)(1)RRUS-32 B30 (WCS)	-	(P)(1) Y-CABLE	(E)(1) RAYCAP DC6-48-60-18-8F
C1	PROPOSED	LTE B14/PCS/AWS	OPA65R-BU6DA	71.2"x21"x7.8"	107'-0"±	260°	-	(E)(1)4449 B5/B12 (850/700) (E)(1)RRUS-32 B30 (WCS)	-	(P)(1) Y-CABLE	(E)(1) RAYCAP DC6-48-60-18-8F
C2	-	-	-	-	-	-	-	-	-	-	
C3	PROPOSED (BELOW)	C-BAND	AIR6449 B77D	30.6"x15.9"x10.6"	103'-9"±	260°	-	-	-	-	
C4	EXISTING (ABOVE)	LTE 700 BC/ 850/WCS	EPBQ-654L8H6-L2	73"x21"x6.3"	109'-0"±	260°	-	(P)(1)4478 B14 (700) (P)(1)4415 B25 (1900) (E)(1)4426 B66 (AWS)	18.1"x13.4"x8.3" 16.5"x13.4"x5.9" -	(E)(2) 7/8 COAX (E)(2) DC POWER (E)(1) FIBER	

NOTE: ALL EQUIPMENT INSTALLATIONS ARE PENDING THE COMPLETION OF A STRUCTURAL ANALYSIS OF THE EXISTING STRUCTURE.	NOTE: REFER TO THE FINAL RF DATA SHEET V4.0 DATED 02/09/23 FOR FINAL ANTENNA SETTINGS.
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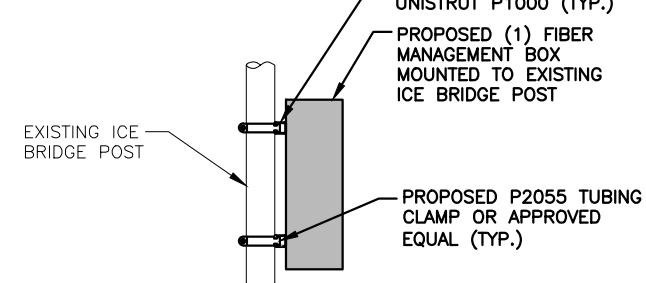
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- TEP NORTHEAST (TEP OPCO, LLC) TO PERFORM POST/CLIMB AND INSPECTION TO CONFIRM PROPOSED INSTALLATION COMPLIES WITH THE RECORD STAMPED DRAWINGS AND STRUCTURAL REPORTS PRIOR TO SUBMITTING FCCA (FINAL CONSTRUCTION CONTROL AFFIDAVIT). GC IS RESPONSIBLE FOR COORDINATING INSPECTIONS WITH TEP NORTHEAST (TEP OPCO, LLC.) PRIOR TO CONSTRUCTION BEING COMPLETED.



NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

DC SURGE PROTECTOR DETAIL
SCALE: N.T.S. 4 A-4



PROPOSED FIBER MANAGEMENT BOX MOUNTING DETAIL
5 A-4

RRU CHART		
QUANTITY	MODEL	SIZE (L x W x D)
P(3)	4478 B14 (700)	18.1"x13.4"x8.3"
P(3)	4415 B25 (1900)	16.5"x13.4"x5.9"
E(3)	4426 B66 (AWS)	14.9"x13.2"x5.8"
E(3)	4449 B5/B12 (850/700)	17.9"x13.2"x10.4"
E(3)	RRUS-32 B30 (WCS)	27.2"x12.1"x7.0"

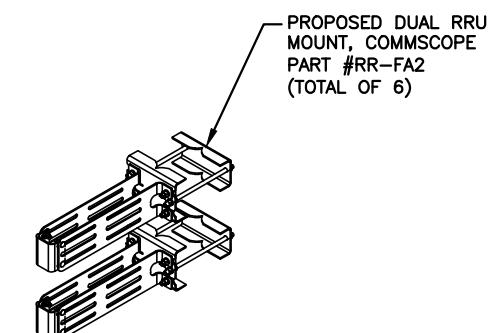
NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS



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. 2 A-4



PROPOSED BACK TO BACK
MOUNT COMMSCOPE (RR-FA2)
SCALE: N.T.S. 3 A-4

NOTE TO GENERAL CONTRACTOR: (PRIOR TO CONSTRUCTION COMPLETION)

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NOTE:

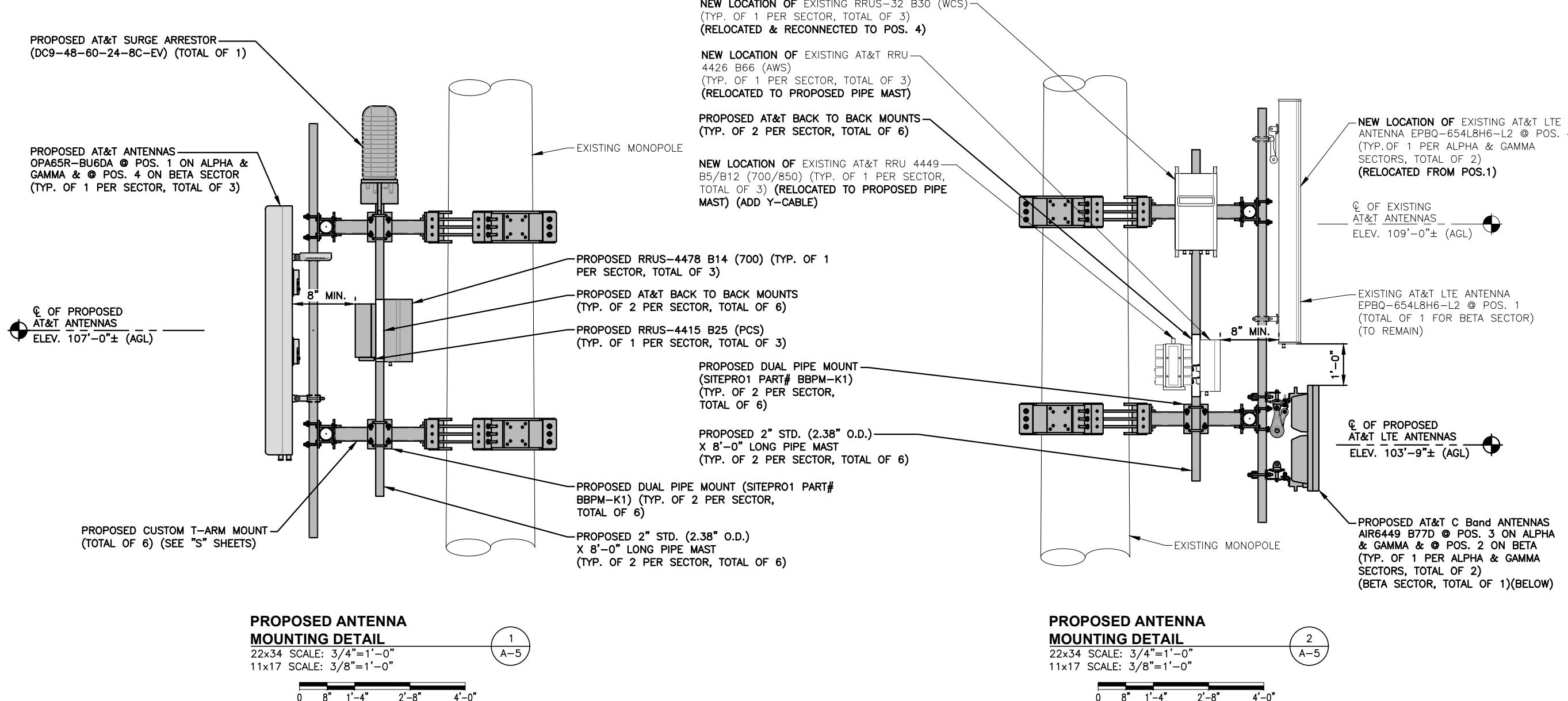
ALL EQUIPMENT INSTALLATIONS ARE PENDING THE COMPLETION OF A STRUCTURAL ANALYSIS OF THE EXISTING STRUCTURE.

NOTE:

REFER TO THE FINAL RF DATA SHEET V4.0 DATED 02/09/23 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: MARCH 08, 2023 (REV. 3)



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 UNO.
- 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 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. 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" x 1 5/8" x 12GA, 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
REQUIRED	ENGINEER OF RECORD APPROVED SHOP DRAWINGS ¹
N/A	MATERIAL SPECIFICATIONS REPORT ²
N/A	FABRICATOR NDE INSPECTION
N/A	PACKING SLIPS ³

ADDITIONAL TESTING AND INSPECTIONS:

DURING CONSTRUCTION

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	STEEL INSPECTIONS
REQUIRED	HIGH STRENGTH BOLT INSPECTIONS
N/A	HIGH WIND ZONE INSPECTIONS ⁴
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT
N/A	POST INSTALLED ANCHOR VERIFICATION ⁵
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 ⁶
N/A	POST INSTALLED ANCHOR PULL-OUT TESTING

ADDITIONAL TESTING AND INSPECTIONS:

NOTES:

- REQUIRED FOR ANY NEW SHOP FABRICATED FRP OR STEEL.
- PROVIDED BY MANUFACTURER, REQUIRED IF HIGH STRENGTH BOLTS OR STEEL.
- PROVIDED BY GENERAL CONTRACTOR; PROOF OF MATERIALS.
- HIGH WIND ZONE INSPECTION CATB 120MPH OR CAT C,D 110MPH INSPECT FRAMING OF WALLS, ANCHORING, FASTENING SCHEDULE.
- ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-11 D.9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-11 D.8.2.4.
- AS REQUIRED; FOR ANY FIELD CHANGES TO THE ITEMS IN THIS TABLE.

NOTES:

- ALL CONNECTIONS TO BE SHOP WELDED & FIELD BOLTED USING 3/4" A325-X BOLTS, UNLESS OTHERWISE NOTIFIED.
- SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED BEFORE ORDERING MATERIAL.
- SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED PRIOR TO STEEL FABRICATION.
- VERIFICATION OF EXISTING ROOF CONSTRUCTION IS REQUIRED PRIOR TO THE INSTALLATION OF THE ROOF PLATFORM. ENGINEER OF RECORD IS TO APPROVE EXISTING CONDITIONS IN ORDER TO MOVE FORWARD.
- CENTERLINE OF PROPOSED STEEL PLATFORM SUPPORT COLUMNS TO BE CENTRALLY LOCATED OVER THE EXISTING BUILDING COLUMNS.
- EXISTING BRICK MASONRY COLUMNS/BEARING TO BE REPAIRED/REPLACED AT ALL PROPOSED PLATFORM SUPPORT POINTS. ENGINEER OF RECORD TO REVIEW AND APPROVE.

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RECORD STAMPED DRAWINGS AND STRUCTURAL REPORTS PRIOR TO SUBMITTING FCCA (FINAL CONSTRUCTION CONTROL AFFIDAVIT). GC IS RESPONSIBLE FOR COORDINATING INSPECTIONS WITH TEP NORTHEAST (TEP OPCO, LLC.) PRIOR TO CONSTRUCTION BEING COMPLETED.

PROPOSED 5/8"Ø U-BOLTS (TYP. OF 2 PER T-ARM, TOTAL OF 12)

PROPOSED P 8-1/2"X8-1/2"X1/2" THK. (TYP. OF 2 PER T-ARM, TOTAL OF 12)

PROPOSED CROSSOVER PLATE KIT (SITEMPRO1 PART# SCX7-U) (TYP.)

PROPOSED 2" STD. (2.38" O.D.) X 10'-0" LONG PIPE MAST (TYP. OF 2 PER SECTOR, TOTAL OF 6)

PROPOSED 3.5" STD. (4" O.D.) X 6'-0" LONG FACE PLATE (TYP. OF 1 PER T-ARM, TOTAL OF 6)

PROPOSED 4"X4"X3/8" THK. X 2'-2" LONG HSS (TYP. OF 1 PER T-ARM, TOTAL OF 6)

PROPOSED 5/8"Ø A325 BOLTS (TYP. OF 4 PER T-ARM, TOTAL OF 24)

PROPOSED RING MOUNT (SITEMPRO1 PART# LWRM) (TOTAL OF 2)

EXISTING MONOPOLE

PROPOSED DUAL PIPE MOUNT (SITEMPRO1 PART# BBPM-K1) (TYP. OF 2 PER SECTOR, TOTAL OF 6)

PROPOSED 2" STD. (2.38" O.D.) X 8'-0" LONG PIPE MAST (TYP. OF 2 PER SECTOR, TOTAL OF 6)

3 S-1

7" 4'-10" 7"

PROPOSED T-ARM MOUNT PLAN VIEW

PROPOSED HSS STANOFF PLAN VIEW

PROPOSED 5/8"Ø U-BOLTS
(TYP. OF 2 PER T-ARM, TOTAL OF 12)

PROPOSED 3.5" STD. (4" O.D.) X 6'-0" LONG FACE PIPE (TYP. OF 1 PER T-ARM, TOTAL OF 6)

PROPOSED R 8-1/2"X8-1/2"X1/2" THK.
(TYP. OF 2 PER T-ARM, TOTAL OF 12)

1/4" TYP.

PROPOSED 2" STD. (2.38" O.D.)
X 8'-0" LONG PIPE MAST
(TYP. OF 2 PER SECTOR, TOTAL OF 6)

PROPOSED DUAL PIPE MOUNT
(SITEMPRO1 PART# BBPM-K1)
(TYP. OF 2 PER SECTOR, TOTAL OF 6)

1/4" TYP.

PROPOSED 4"X4"X3/8" THK. X 2'-2" LONG
(TYP. OF 1 PER T-ARM, TOTAL OF 6)

PROPOSED 5/8"Ø A325 BOLTS
(TYP. OF 4 PER T-ARM, TOTAL OF 24)

PROPOSED RING MOUNT
(SITEMPRO1 PART# LWRM)
(TOTAL OF 2)

3

0' 0" 0'-6" 1'-0" 2'-0" 3'-0"

0' 0" 0'-2" 0'-4" 0'-8" 1'-0"

SCALE: 3" = 1'-0"

PROPOSED HSS STANDOFF PLAN VIEW



**SITE NUMBER: CTL02312
SITE NAME: DANBURY STADLEY ROUGH ROAD**



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

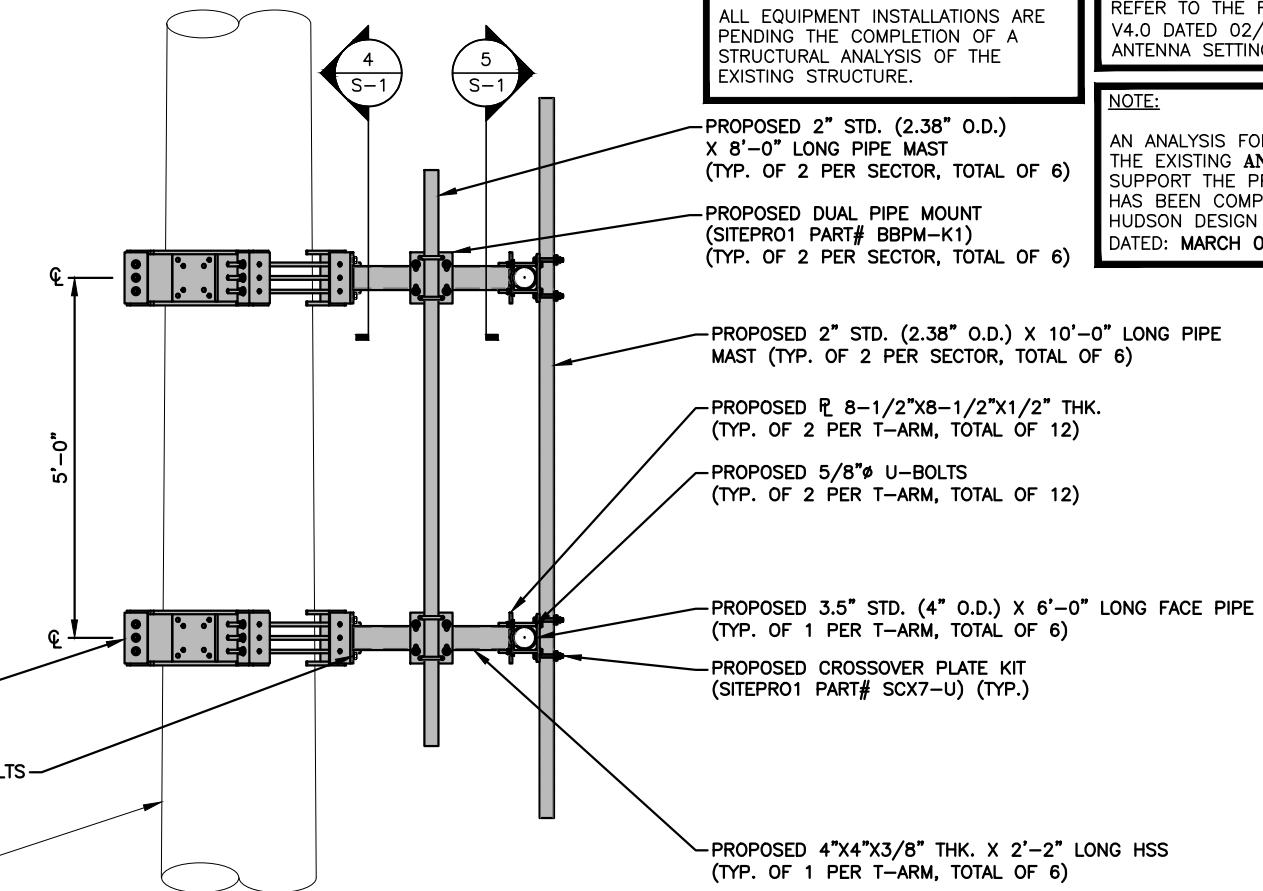
NOTE:
ALL EQUIPMENT INSTALLATIONS ARE PENDING THE COMPLETION OF A STRUCTURAL ANALYSIS OF THE EXISTING STRUCTURE.

STRUCTURAL ANALYSIS OF THE
EXISTING STRUCTURE.

- PROPOSED 2" STD. (2.38" O.D.)
X 8'-0" LONG PIPE MAST
(TYP. OF 2 PER SECTOR, TOTAL OF 6)
- PROPOSED DUAL PIPE MOUNT
(SITEPRO1 PART# BBPM-K1)
(TYP. OF 2 PER SECTOR, TOTAL OF 6)

NOTE:
REFER TO THE FINAL RF DATA SHEET
V4.0 DATED 02/09/23 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: MARCH 08, 2023 (REV. 3)



PROPOSED T-ARM MOUNT SIDE VIEW

22x34 SCALE: 3/4"=1'-0"
11x17 SCALE: 3/8"=1'-0"

S-1

0 8" 1'-4" 2'-8" 4'-0"

PROPOSED 5/8"Ø A325 BOLTS
(TYP. OF 4 PER T-ARM, TOTAL OF 24)

PROPOSED P 8-1/2"X8-1/2"X1/2" THK.
(TYP. OF 2 PER T-ARM, TOTAL OF 12)

PROPOSED 4"X4"X3/8" THK. X 2'-2" LONG HSS
(TYP. OF 1 PER T-ARM, TOTAL OF 6)

1 1/4"

PROPOSED RING MOUNT

TYP. 1/4" V

PROPOSED 3.5" STD. (4" O.D.)
X 6'-0" LONG FACE PIPE
(TYP. OF 1 PER T-ARM, TOTAL OF 6)

PROPOSED 5/8"Ø U-BOLTS
(TYP. OF 2 PER T-ARM, TOTAL OF 12)

PROPOSED P 8-1/2"X8-1/2"X1/2" THK.
(TYP. OF 2 PER T-ARM, TOTAL OF 12)

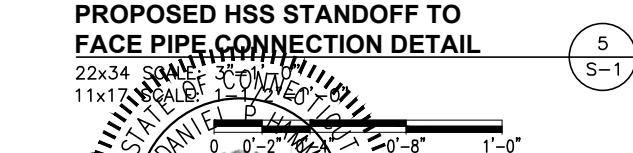
2 1/2"

1 1/2" 5 1/2" 1 1/2"

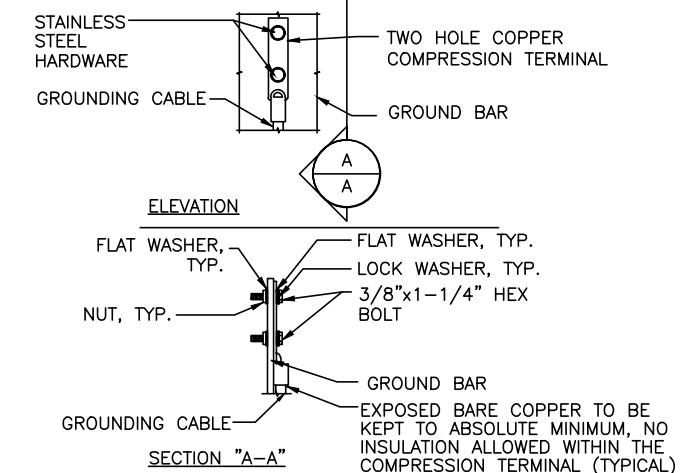
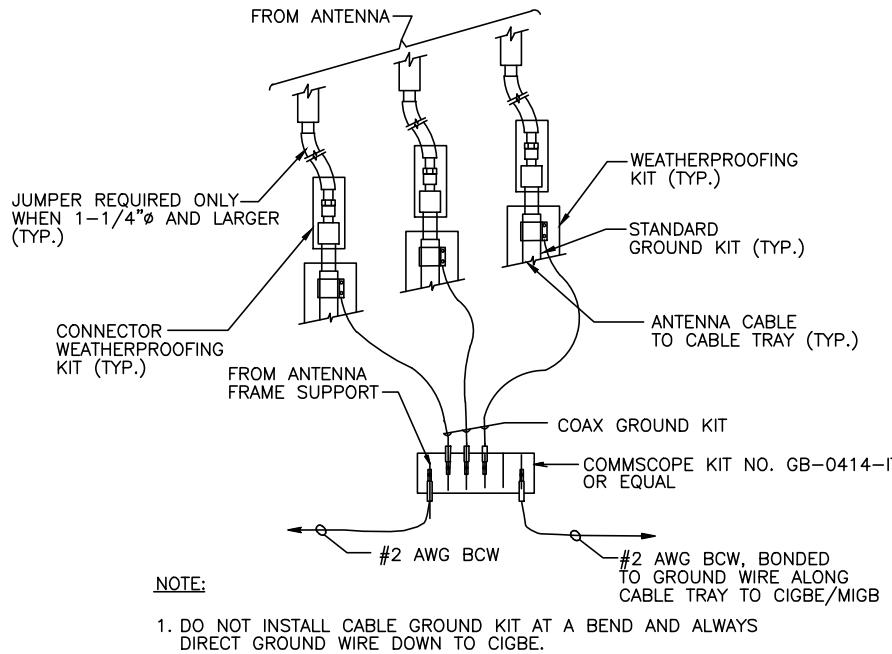
PROPOSED 4"X4"X3/8" THK.
X 2'-2" LONG HSS
(TYP. OF 1 PER T-ARM,
TOTAL OF 6)

PROPOSED HSS STANDOFF TO RING MOUNT CONNECTION DETAIL

22x34 SCALE: 3"=1'-0"
11x17 SCALE: 1-1/2"=1'-0"



		NO. 24178		AT&T	
					
STRUCTURAL DETAILS					
5G NR 1SR CBAND, CELL SITE RF MODIFICATION, LTE 6C, LTE NEXT CARRIER, 5G NR RADIO					
BY		CHK	APP'D	SITE NUMBER	
AWN BY: KW				DRAWING NUMBER	
				CTL02312 S-1	

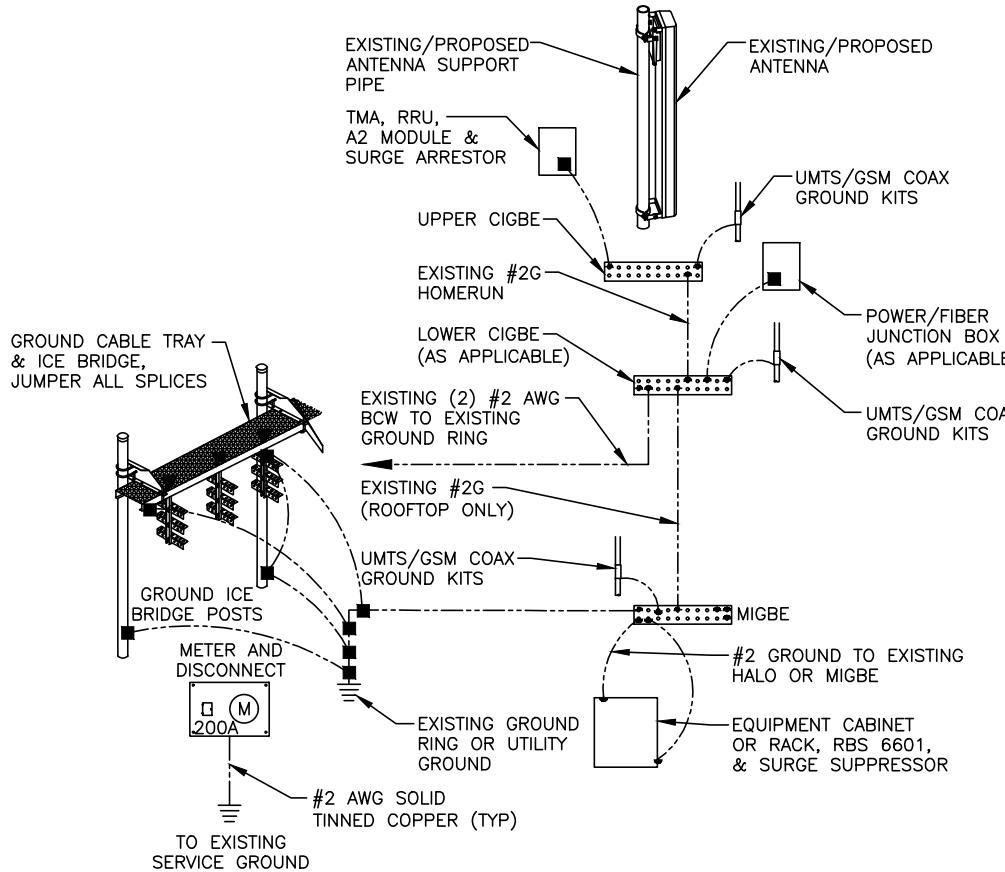


NOTES:
 1. "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
 2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATION.
 3. CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB, AND MGB

GROUND WIRE TO GROUND BAR CONNECTION DETAIL

SCALE: N.T.S

1
G-1



GROUNDING RISER DIAGRAM

SCALE: N.T.S

2
G-1

TYPICAL GROUND BAR CONNECTION DETAIL

SCALE: N.T.S

3
G-1

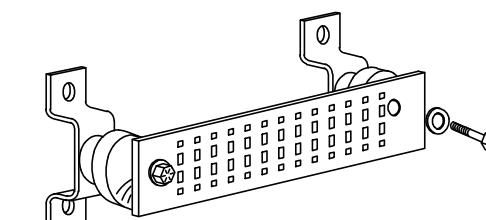
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

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.

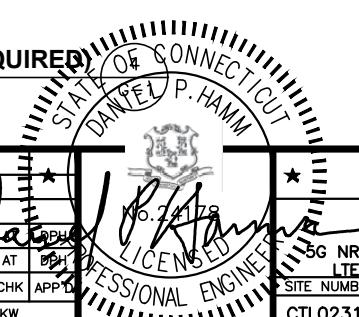
SECTION "A" – SURGE ABSORBERS

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)



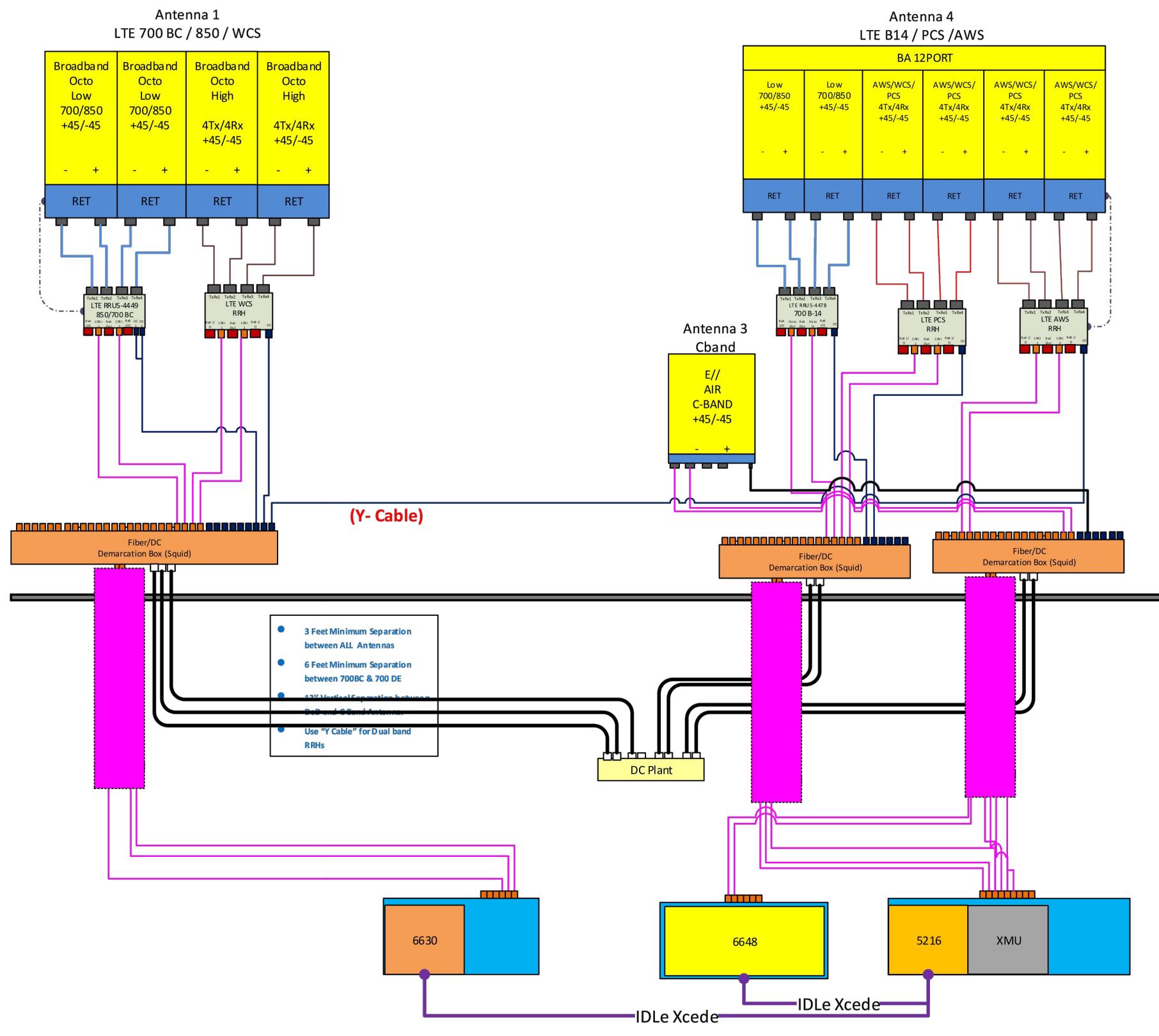
GROUND BAR - DETAIL (AS REQUIRED)

SCALE: N.T.S



AT&T
 GROUNDING DETAILS

5G NR 1SR CBAND, CELL SITE RF MODIFICATION,
 LTE 6C, LTE NEXT CARRIER, 5G NR RADIO
 SITE NUMBER DRAWING NUMBER REV
 CTL02312 G-1 1



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

NOTE:
REFER TO THE FINAL RF DATA SHEET V4.0 DATED 02/09/23 FOR FINAL ANTENNA SETTINGS.

EXHIBIT 2



52 Stadley Rough Rd

Building



Directions



Save



Nearby



Send to
phone



Share



52 Stadley Rough Rd, Danbury, CT 06811

Location:	52 STADLEY ROUGH RD	Map Id:	K07 19	Zone:	RA40	Date Printed:	4/17/2023			
		Neighborhood:	3000			Last Update:	4/17/2023			
Owner Of Record			Volume/Page	Date	Sales Type		Valid	Sale Price		
CHRIST THE SHEPHERD CHURCH PCA 52 STADLEY ROUGH RD, DANBURY, CT 06811			1948/0939	7/25/2007	Warranty Deed Exempt		No	450,000		
Prior Owner History										
CANDLEWOOD BAPTIST CHURCH			0510/0346	1/24/1972			No	0		
Permit Number	Date	Permit Description								
21-3021	11/15/2021	Addition of (3)Antennas. (3) Radios & (3) Diplexers /w mount modification. and related cabling. Addi								
58059	3/28/2016	3 ANTENNAS								
54851	5/20/2014	ANT AND GENERATOR								
54583	3/17/2014	ADD ANTENNAS								
53632	7/23/2013	3 ANTENNAS								
51335	5/15/2012	ADD ANTENNAS								
Supplemental Data										
Census/Tract	2114	VisionPID	23658	Appraised Value						
Dev Map ID		Street Description	Paved	Total Land Value 500,500						
GIS ID		TC MAP	9345 4946	Total Building Value 1,549,200						
Route		TC LOT	23G	Total Outbldg Value 494,900						
District		TOPO	Level	Total Market Value 2,544,600						
Utilities	Well, Septic									
Acres				State Item Codes						
Land Type	Acres	490	Total Value	Code	Quantity		Value			
Commercial Excess	2.85	0.00	112,900	22-Commercial Building	1.00		1,084,440			
Primary Site	2.00	0.00	387,600	21-Commercial Land	4.85		350,350			
				25-Commercial Outbuilding	4.00		346,430			
Total	4.8500	0.00	500,500							
Assessment History (Prior Years as of Oct 1)										
2022	2021	2020	2019	2018	Type	Acres	Value	Type	Acres	Value
Land	350,350	362,700	362,700	362,700	362,700					
Building	1,084,440	916,600	1,037,500	1,037,500	1,037,500					
Outbuilding	346,430	120,900	0	0	0					
Total	1,781,220	1,400,200	1,400,200	1,400,200	1,400,200					
								Totals	0.00	0
								Application Date:	Expiration Date:	
Comments										
1/23/2023	CELL VAL - 3500 MONTH 5% VAC 5% EXP 8 CAP									

Location: 52 STADLEY ROUGH RD

Unit

Commercial Building Description

Building Use Church/NonProfit
Class Wood Frame

Overall Condition Average

Construction Quality C+

Stories 1.00

Year Built 1997

Remodel

Percent Complete 100

GLA 11320

Basement

Basement Area 0

HVAC

Heating Type Forced Hot Air

Fuel Type Oil

Cooling Type Central

Interior

Floors Carpet

Walls Drywall

Wall Height

Exterior

Exterior Walls Vinyl Siding

Roof Type Asphalt

Roof Cover Gable

Special Features

Description

Area/Qty

Base Value 11320
Central Air 11320

Attached Component Computations

Type Yr Bld Area/Qty

Canopy 1997 288

Detached Component Computations

Type	Year	Condition	Area/Qty	Type	Year	Condition	Area/Qty
Cell Tower	2010	Average	1				
Fence 3	2007	Average	160				
Frame Shed	2007	Average	128				
Paving	2002	Average	20000				

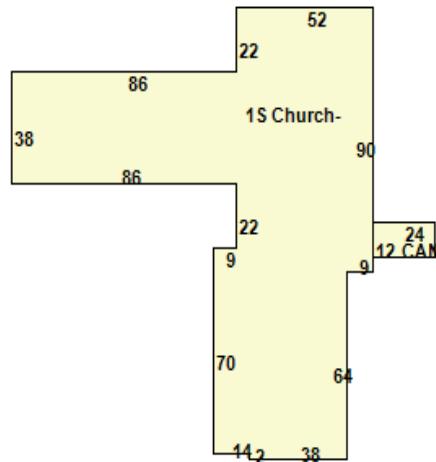


EXHIBIT 3

SBA Communications Corporation
8051 Congress Avenue
Boca Raton, FL 33487-1307

T + 561 995 7670
F + 561 995 7626



sbasite.com

Structural Analysis Report

Client: AT&T

Client Site ID / Name: CT2312 / Danbury Stadley Rough Road
Application #: 195389, v5

SBA Site ID / Name: CT13549-S / Danbury 1

140 ft Monopole

52 Stadley Rough Road
Danbury, Connecticut 06811
Lat: 41.433103, Long: -73.431917

Project number: CT13549-ATT-050223

Analysis Results

Tower	96.5%	Pass
Foundation	86.0%	Pass

Change in tower stress due to mount modification / replacement 0.81%

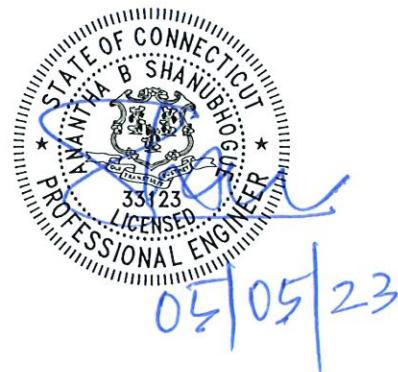
Prepared by:

Kenneth Williams
Structural Engineer I
561-226-9512
kwilliams@sbasite.com

Reviewed by:

Anantha (Shan) Shanubhogue, P.E.
Senior Manager, Structural Engineering
561-981-7390
sshanubhogue@sbasite.com

May 4, 2023



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Boca Raton, FL 33487-1307

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sbasite.com



Structural Analysis Report

Client: AT&T

Client Site ID / Name: CT2312 / Danbury Stadley Rough Road
Application #: 195389, v5

SBA Site ID / Name: CT13549-S / Danbury 1

140 ft Monopole

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Lat: 41.433103, Long: -73.431917

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Analysis Results

Tower	96.5%	Pass
Foundation	86.0%	Pass

Change in tower stress due to mount modification / replacement	0.81%
--	-------

Prepared by:

Kenneth Williams
Structural Engineer I
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kwilliams@sbasite.com

Reviewed by:

Anantha (Shan) Shanubhogue, P.E.
Senior Manager, Structural Engineering
561-981-7390
sshanubhogue@sbasite.com

May 4, 2023

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Introduction

The purpose of this report is to summarize the analysis results on the 140 ft Monopole to support the proposed antennas and transmissions lines in addition to those currently installed.

Table 1 List of Documents Used

Item	Document
Tower design/drawings	Sabre, Job # 10-01206, dated 01/28/2010
Foundation drawings	Sabre, Job # 10-01206, dated 01/28/2010
Geotechnical report	TEP, Project # 091184.01, dated 05/13/2009
Mount Analysis	TEP Northeast, PT # 2051A11MLS (Rev. 3), dated 03/08/2023
Modification drawings	N/A
Latest SA	TES, Project # 134919, dated 10/04/2022

Analysis Criteria

Table 2 Code Related Data

Jurisdiction (State/County/City)	Connecticut/Fairfield/Danbury
Governing Codes	ANSI/TIA/EIA 222-H, 2021 IBC / 2022 CSBC
Ultimate Wind Speed (3-Sec gust)	120.0 mph
Wind Speed with Ice (3-Sec gust)	50 mph
Service Wind Speed (3-Sec gust)	60 mph
Ice Thickness	1.00"
Risk Category	II
Exposure Category	C
Topographic Category	1
Crest Height	0 ft
Ground Elevation	546.93 ft.
Seismic Parameter S_s	0.218
Seismic Parameter S_1	0.056

This structural analysis is based upon the tower being classified as a risk category II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.

Appurtenance Loading

Existing Loading:

Table 3 Existing Appurtenances

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	137.0	3	RFS APXVAARR18_43-U-NA20 – Panel	(3) T-Arms with extended horizontal support Sitepro RDS-272	(9) 1 5/8" (4) 1 5/8" Fiber	T-Mobile
2		3	Air 32 KRD901146_1_B66A_B2A – Panel			
3		3	AIR6449 B41 – Panel			
4		3	Ericsson KRY 112 144/1 – TMA			
5		3	Commscope SDX1926Q-43 – Diplexer			
6		3	Ericsson 4449 B71+B85 – RRU			
7		3	Ericsson 4415 B25 – RRU			
8	127.0	3	Commscope FFVV-65B-R2 – Panel	(3) T-Arms (Commscope MC-FM324-278)	(1) 1.75" Hybrid	Dish Wireless
9		3	Fujitsu TA08025-B604 – RRU			
10		3	Fujitsu TA08025-B605 – RRU			
11		1	Raycap RDIDC-9181-PF-48 – OVP			
12	107.0	3	CCI OPA-65R-LCUU-H6 – Panel	(3) T-Arms (Commscope MC-HPM1250-B) + Collar Mount (Commscope RR-RM1560)	(6) 3/4" DC (2) 3/8" Fiber (6) 7/8"	AT&T
13		3	KMW EPBQ-652L8H6-L2 – Panel			
14		3	Kaelus DBC20056F1V1 – Combiners			
15		3	CCI DTMABP7819VG12A – TMA			
16		3	Ericsson 4426 B66 – RRU			
17		3	Ericsson RRUS 4449 B5/B12 – RRU			
18		3	Ericsson RRUS-11 700MHz			
19		3	Ericsson RRUS 12 – RRU			
20		3	Ericsson RRUS A2 – RRU			
21		3	Ericsson RRUS-32 – RRU			
22		3	Raycap DC6-48-60-18-8F – OVP			
23	97.0	6	JMA MX06FRO660-03 – Panel	(3) Standoff	(12) 1 5/8" (1) 1 5/8" Hybrid	Verizon
24		3	Samsung VZS01 – Panel			
25		3	Samsung B5/B13 RRH-BR04C – RRU			
26		3	Samsung B2/B66A RRH-BR049 – RRU			
27		1	Commscope RCMDC-6627-PF-48 – OVP			

Note: AT&T loading includes FirstNET equipment

Proposed Loading:

Information pertaining to proposed antennas and transmission lines were based upon the Application #: 195389, v5 from AT&T and is listed in Table 4.

Table 4 Proposed Appurtenances

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	107.0	3	KMW EPBQ-652L8H6-L2 – Panel	(6) T-Arm Mounts	(1) 0.92" DC (1) 1/2" Fiber (6) 3/4" DC (2) 3/8" Fiber (6) 7/8"	AT&T
2		3	Ericsson AIR6449 B77D – Panel			
3		3	CCI OPA65R-BU6DA – Panel			
4		3	CCI DTMABP7819VG12A – TMA			
5		3	Ericsson RRUS-32 – RRU			
6		3	Ericsson 4426 B66 – RRU			
7		3	Ericsson RRUS 4449 B5/B12 – RRU			
8		3	Ericsson RRUS 4415 B25 – RRU			
9		3	Ericsson RRUS 4478 B14 – RRU			
10		3	Ericsson RRUS A2 – RRU			
11		3	Kaelus DBC20056F1V1 – Combiners			
12		2	Raycap DC6-48-60-18-8F – OVP			
13		1	Raycap DC9-48-60-24-8C-EV – OVP			

Note: AT&T loading includes FirstNET equipment

Analysis Results

Tower

The results of the structural analysis are shown below in table 5. Additional information for the tower analysis is provided within the Appendix.

Table 5 Tower Analysis Summary

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:	96.5%	77.5%	72.6%
Pass/Fail	Pass	Pass	Pass

Foundation

The results of the foundation analysis are shown below in table 6. Additional information for the foundation analysis is provided within the Appendix.

Table 6 Foundation Analysis Summary

Structural Component	Max Usage (%)	Analysis Result
Foundation	86.0%	Pass

Conclusions

Based on the analysis results, the existing tower and foundation were found to be **sufficient** to safely support the equipment listed in this analysis. No modification to the tower and foundation is needed at this time.

Installation Requirements

This analysis was performed under the assumption that the carrier will place the proposed equipment and feed lines at the installation height listed in Table 4 and in accordance with the coax layout shown. TMAs and RRUs are to be installed on existing mounts behind tenant's antennas unless otherwise noted. No equipment is to be installed directly in the climbing path. All equipment is to be installed per mount manufacturer specifications. In case site conditions do not allow for the required installation parameters to be met the carrier must notify SBA Communications Corporation engineers for approval of an alternative placement.

Assumptions and Limitations

Assumptions

This analysis was completed based on the following assumptions:

- Tower and foundation were built in accordance to manufacturer specifications.
- Tower and foundation has been properly maintained in accordance with the manufacturer's specifications
- All existing structural members were assumed to be in good condition with no physical damage or deterioration associated with corrosion
- Welds and bolts are assumed able to carry their intended original design loads.
- The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Table 3 and 4.
- This analysis may be affected if any assumptions are not valid or have been made in error. SBA should be notified to determine the effect on the structural integrity of the tower.

Limitations

The computer generated analysis performed by the tower software is limited to theoretical capacities of the towers structural members and does not account for any missing or damaged members or connections. The tower and foundation are assumed to have been properly designed, fabricated, installed and maintained, barring any conflicting findings from the most recent inspection.

SBA Communications Corporation has used its due diligence to verify the information provided to perform this analysis. It is unreasonable to perform a more detailed inspection of a tower and its components. This report is not a condition assessment of the tower or foundation.

EXHIBIT 4

March 8, 2023 (Rev.3)

February 13, 2023 (Rev.2)

October 28, 2022 (Rev.1)

April 13, 2022



Centerline Communications
750 West Center Street, Suite #301
West Bridgewater, MA 02379

RE:	Site Number:	CT2312
	FA Number:	12676398
	PACE Number:	MRCTB055425
	PT Number:	2051A11MLS
	TEP Site Number:	354251
	Site Name:	DANBURY STADLEY ROUGH ROAD
	Site Address:	52 Stadley Rough Road Danbury, CT 06811

To Whom It May Concern:

TEP Northeast (TEP NE) has been authorized by Centerline Communications to perform a mount analysis on the proposed AT&T antenna/RRH mounts to determine their capability of supporting the following additional loading:

- (3) EPBQ-654L8H6-L2 Antennas (73.0"x21.0"x6.3" – Wt. = 73 lbs. /each)
- (3) 4426 B66 RRH's (14.9"x13.2"x5.8" – Wt. = 49 lbs. /each) (Standoff)
- (3) 4449 B5/B12 RRH's (17.9"x13.2"x9.4" – Wt. = 73 lbs. /each) (Standoff)
- (3) RRUS-32 B30 RRH's (27.2"x12.1"x7.0" – Wt. = 60 lbs. /each) (Standoff)
- (2) DC6-48-60-18-8F Surge Arrestors (31.4"x10.2"Ø – Wt. = 29 lbs. /each) (Standoff)
- (3) **OPA65R-BU6DA Antennas (71.2"x20.7"x7.7" – Wt. = 64 lbs. /each)**
- (3) **AIR6449 Antennas (30.6"x15.9"x10.6" – Wt. 82 lbs. /each)**
- (3) **4478 B14 RRH's (18.1"x13.4"x8.3" – Wt. = 60 lbs. /each) (Standoff)**
- (3) **4415 B25 RRH's (16.5"x13.4"x5.9" – Wt. = 46 lbs. /each) (Standoff)**
- (1) **DC9-48-60-24-8C-EV Surge Arrestor (31.4"x10.2"Ø – Wt. = 29 lbs.) (Standoff)**

**Proposed equipment shown in bold*

The proposed mount consists of custom steel members. TEP NE Construction Drawings dated March 8, 2023 were used to perform this analysis.

Mount Analysis Methods:

- This analysis was conducted in accordance with EIA/TIA-222-H, Structural Standards for Steel Antenna Towers and Antenna Supporting Structures, the International Building Code 2021 with 2022 Connecticut State Building Code, and AT&T Mount Technical Directive – R22.
- TEP NE considers this mount to be asymmetrical and has applied wind loads in 30 degree increments all around the mount. Per TIA-222-H and Appendix P of the Connecticut State Building Code, the max basic wind speed for this site is equal to 120 mph with a max basic wind speed with ice of 50 mph and a max ice thickness of 1.0 in. An escalated ice thickness of 1.12 in was used for this analysis.
- TEP NE considers this site to be exposure category C; tower is located near large, flat, open, terrain/grasslands.
- TEP NE considers this site to be topographic category 1; tower is located on flat terrain or the bottom of a hill or ridge.
- TEP NE considers this site to have a spectral response acceleration parameter at short periods, S_s , of 0.225 and a spectral response acceleration parameter at a period of 1 second, S_1 , of 0.056.
- AT&T policy forbids walking on or suspending below T-arm mounts. This analysis does not include live load conditions for this mount.
- The proposed mounts are secured to the existing monopole with ring mounts and threaded rods. TEP NE considers the threaded rods to be the governing connection member.

Based on our evaluation, we have determined that the proposed mounts **ARE CAPABLE** of supporting the proposed installation.

	Component	Controlling Load Case	Stress Ratio	Pass/Fail
Proposed Mount Rating	16	LC7	42%	PASS

This determination was based on the following limitations and assumptions:

1. TEP NE is not responsible for any modifications completed prior to and hereafter which TEP NE was not directly involved.
2. All structural members and their connections are assumed to be in good condition and are free from defects with no deterioration to its member capacities.
3. All antennas, coax cables and waveguide cables are assumed to be properly installed and supported as per the manufacturer's requirements.
4. The proposed mounts have been adequately secured to the tower structure per the mount manufacturer's specifications.
5. All components pertaining to AT&T's mounts must be tightened and re-plumbed prior to the installation of new appurtenances.
6. TEP NE performed a localized analysis on the mount itself and not on the supporting tower structure.

Please feel free to contact our office should you have any questions.

Respectfully Submitted,
TEP Northeast



Michael Cabral
Director



Daniel P. Hamm, PE
Vice President

EXHIBIT 5



Radio Frequency Exposure Analysis Report

March 24, 2023

Centerline on behalf of AT&T

AT&T Site Name: DANBURY STADLEY ROUGH ROAD

Site Number: CT2312

FA#: 12676398

USID: 150547

Site Address: 52 STADLEY ROUGH ROAD, DANBURY, CT 06811



Michael Fischer, P.E.
Registered Professional Engineer (Electrical)
Connecticut License Number 33928
Expires January 31, 2024

Signed 24 March 2023

Site Compliance Summary

AT&T Compliance Status:	Compliant
Cumulative Calculated Power Density (Ground Level):	2.26374 $\mu\text{W}/\text{cm}^2$
Cumulative General Population % MPE (Ground Level):	0.28413%



March 24, 2023

Centerline
Attn: Ryan Burgdorfer, Project Manager
750 W Center St, Suite 301
West Bridgewater, MA 02379

RF Exposure Analysis for Site: DANBURY STADLEY ROUGH ROAD

Centerline Communications, LLC ("Centerline") was contracted to analyze the proposed AT&T facility at **52 STADLEY ROUGH ROAD, DANBURY, CT 06811** for the purpose of determining whether the predictive exposure from the proposed facility is within specified federal limits.

All information used in this report was analyzed as a percentage of the Maximum Permissible Exposure (% MPE) limits as detailed in 47 CFR § 1.1310 as well as Federal Communications Commission (FCC) OET Bulletin 65 Edition 97-01. The FCC MPE limits are typically expressed in units of milliwatts per square centimeter (mW/cm^2) or microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The exposure limits vary depending upon the frequencies being utilized. The General Population/Uncontrolled MPE limit (in mW/cm^2) for frequencies between 300 and 1500 is defined as frequency (in MHz) divided by 1500 ($f_{\text{MHz}}/1500$). Frequencies between 1500 and 100,000 MHz have a General Population/Uncontrolled MPE limit of 1 mW/cm^2 (1000 $\mu\text{W}/\text{cm}^2$). The calculated power density at each sample point divided by the limit at each calculated frequency provides a result in % MPE. Summing the calculated % MPE from all contributors provides a cumulative % MPE at a particular sample point. Wireless carriers use different frequency bands with varying MPE limits; therefore, it is useful to report results in terms of % MPE as opposed to power density.

All results were compared to the FCC radio frequency exposure rules as detailed in 47 CFR § 1.1307(b) to determine compliance with the MPE limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population 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 population 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.

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, 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.



Calculation Methodology

Centerline Communications, LLC has performed theoretical modeling of the site using a software tool, RoofMaster®, 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.



Data & Results

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 ground level.

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(s) below. The cumulative power density and cumulative % MPE are displayed at the bottom of the table(s) below.



Maximum Calculated Cumulative Power Density @ Ground Level (Location: approximately 13' west of site)

Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBi)	Antenna Centerline (ft)	Channel Count	TX Power/Channel (watts)	ERP (watts)	Calculated Power Density (μW/cm²)	General Population MPE Limit (μW/cm²)	General Population % MPE
AT&T A 1	CCI DMP65R-BU6D	700	11.35	107.00	4.00	40.00	2183.33	0.00035	466.67	0.00007
AT&T A 1	CCI DMP65R-BU6D	850	11.45	107.00	4.00	40.00	2234.19	0.00017	566.67	0.00003
AT&T A 1	CCI DMP65R-BU6D	2300	15.25	107.00	4.00	25.00	3349.65	0.00011	1000.00	0.00001
AT&T A 2	ERICSSON AIR6449	3700	23.55	103.75	1.00	86.75	19645.79	1.01238	1000.00	0.10124
AT&T A 3	KMW EPBQ-654L8H6-L2	700	12.13	109.00	4.00	30.00	2158.65	0.10408	466.67	0.02230
AT&T A 3	KMW EPBQ-654L8H6-L2	1900	13.65	109.00	4.00	30.00	2979.76	0.12018	1000.00	0.01202
AT&T A 3	KMW EPBQ-654L8H6-L2	2100	13.90	109.00	4.00	45.00	4469.64	0.17488	1000.00	0.01749
AT&T B 4	KMW EPBQ-654L8H6-L2	700	12.13	109.00	4.00	30.00	2158.65	0.00018	466.67	0.00004
AT&T B 4	KMW EPBQ-654L8H6-L2	1900	13.65	109.00	4.00	30.00	2979.76	0.00003	1000.00	0.00000
AT&T B 4	KMW EPBQ-654L8H6-L2	2100	13.90	109.00	4.00	45.00	4469.64	0.00004	1000.00	0.00000
AT&T B 5	ERICSSON AIR6449	3700	23.55	103.75	1.00	86.75	19645.79	0.00822	1000.00	0.00082
AT&T B 6	CCI OPA65R-BU6D	700	11.35	107.00	4.00	40.00	2183.33	0.00023	466.67	0.00005
AT&T B 6	CCI OPA65R-BU6D	850	11.45	107.00	4.00	40.00	2234.19	0.00012	566.67	0.00002
AT&T B 6	CCI OPA65R-BU6D	2300	15.25	107.00	4.00	25.00	3349.65	0.00003	1000.00	0.00000
AT&T C 7	CCI OPA65R-BU6D	700	11.35	107.00	4.00	40.00	2183.33	0.12002	466.67	0.02572
AT&T C 7	CCI OPA65R-BU6D	850	11.45	107.00	4.00	40.00	2234.19	0.10050	566.67	0.01774
AT&T C 7	CCI OPA65R-BU6D	2300	15.25	107.00	4.00	25.00	3349.65	0.08146	1000.00	0.00815
AT&T C 8	ERICSSON AIR6449	3700	23.55	103.75	1.00	86.75	19645.79	0.00745	1000.00	0.00075
AT&T C 9	KMW EPBQ-654L8H6-L2	700	12.13	109.00	4.00	30.00	2158.65	0.00019	466.67	0.00004
AT&T C 9	KMW EPBQ-654L8H6-L2	1900	13.65	109.00	4.00	30.00	2979.76	0.00001	1000.00	0.00000
AT&T C 9	KMW EPBQ-654L8H6-L2	2100	13.90	109.00	4.00	45.00	4469.64	0.00001	1000.00	0.00000
T-Mobile A 13	GENERIC PANEL 6FT	1900	15.84	97.00	2.00	60.00	4604.49	0.00003	1000.00	0.00000
T-Mobile A 13	GENERIC PANEL 6FT	2100	16.39	97.00	2.00	60.00	5226.14	0.00005	1000.00	0.00001
T-Mobile A 14	GENERIC PANEL 6FT	700	12.33	97.00	2.00	60.00	2052.02	0.00059	466.67	0.00013
T-Mobile B 15	GENERIC PANEL 6FT	1900	15.84	97.00	2.00	60.00	4604.49	0.00019	1000.00	0.00002
T-Mobile B 15	GENERIC PANEL 6FT	2100	16.39	97.00	2.00	60.00	5226.14	0.00012	1000.00	0.00001
T-Mobile B 16	GENERIC PANEL 6FT	700	12.33	97.00	2.00	60.00	2052.02	0.00027	466.67	0.00006
T-Mobile C 17	GENERIC PANEL 6FT	1900	15.84	97.00	2.00	60.00	4604.49	0.13685	1000.00	0.01369
T-Mobile C 17	GENERIC PANEL 6FT	2100	16.39	97.00	2.00	60.00	5226.14	0.14402	1000.00	0.01440
T-Mobile C 18	GENERIC PANEL 6FT	700	12.33	97.00	2.00	60.00	2052.02	0.13287	466.67	0.02847
Unknown A 16	GENERIC PANEL 6FT	850	12.62	117.00	2.00	60.00	2061.49	0.04583	566.67	0.00809
Unknown B 17	GENERIC PANEL 6FT	850	12.62	117.00	2.00	60.00	4307.06	0.00001	566.67	0.00000
Unknown C 18	GENERIC PANEL 6FT	850	12.62	117.00	2.00	60.00	4307.06	0.00011	566.67	0.00002
Unknown A 19	GENERIC PANEL 6FT	850	12.62	127.00	4.00	40.00	2878.19	0.03857	566.67	0.00681
Unknown B 20	GENERIC PANEL 6FT	850	12.62	127.00	4.00	40.00	2878.19	0.00000	566.67	0.00000



Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/Channel (watts)	ERP (watts)	Calculated Power Density ($\mu\text{W}/\text{cm}^2$)	General Population MPE Limit ($\mu\text{W}/\text{cm}^2$)	General Population % MPE
Unknown C 21	GENERIC PANEL 6FT	850	12.62	127.00	4.00	40.00	2878.19	0.00009	566.67	0.00002
Unknown A 22	GENERIC PANEL 6FT	850	12.62	137.00	4.00	40.00	2878.19	0.03342	566.67	0.00590
Unknown B 23	GENERIC PANEL 6FT	850	12.62	137.00	4.00	40.00	2878.19	0.00000	566.67	0.00000
Unknown C 24	GENERIC PANEL 6FT	850	12.62	137.00	4.00	40.00	2878.19	0.00008	566.67	0.00001
							Cumulative Power Density:	2.26374 $\mu\text{W}/\text{cm}^2$	Cumulative % MPE:	0.28413%



Summary

The theoretical calculations performed for this analysis yielded cumulative power density totals in all areas at ground level that are within the allowable federal limits for public exposure to RF energy. Therefore, the site is **compliant** with FCC rules and regulations.

A handwritten signature in black ink, appearing to read "Katrina Styx".

Katrina Styx
RF EME Technical Writer
Centerline Communications, LLC

EXHIBIT 6



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

www.ct.gov/csc

March 7, 2014

Christopher B. Fisher, Esq.
Cuddy & Feder LLP
445 Hamilton Avenue, 14th Floor
White Plains, NY 10601

RE: **TS-CING-034-140220** – New Cingular Wireless PCS, LLC request for an order to approve tower sharing at an existing telecommunications facility located at 52 Stadley Rough Road, Danbury, Connecticut.

Dear Attorney Fisher:

At a public meeting held March 6, 2014, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures with the following conditions:

- Any deviation from the proposed installation as specified in the original tower share request and supporting materials with the Council shall render this decision invalid;
- Any material changes to the proposed installation as specified in the original tower share request and supporting materials filed with the Council shall require an explicit request for modification to the Council pursuant to Connecticut General Statutes § 16-50aa, including 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;
- Not less than 45 days after completion of the proposed installation, the Council shall be notified in writing that the installation has been completed;
- The validity of this action shall expire one year from the date of this letter;
- 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 coax lines and accessory equipment shall be installed in accordance with the recommendations made in the Structural Analysis Report prepared by FDH Engineering dated February 11, 2014 and stamped by Bradley Newman; and
- Within 45 days following completion of the antenna installation, AT&T shall provide documentation certified by a professional engineer that its installation complied with the recommendations of the structural analysis.

This decision is under the exclusive jurisdiction of the Council. This facility has 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. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction. Please be advised that the validity of this action shall expire one year from the date of this letter.

The proposed shared use is to be implemented as specified in your letter dated February 19, 2014, including the placement of all necessary equipment and shelters within the tower compound.

Thank you for your attention and cooperation.

Very truly yours,

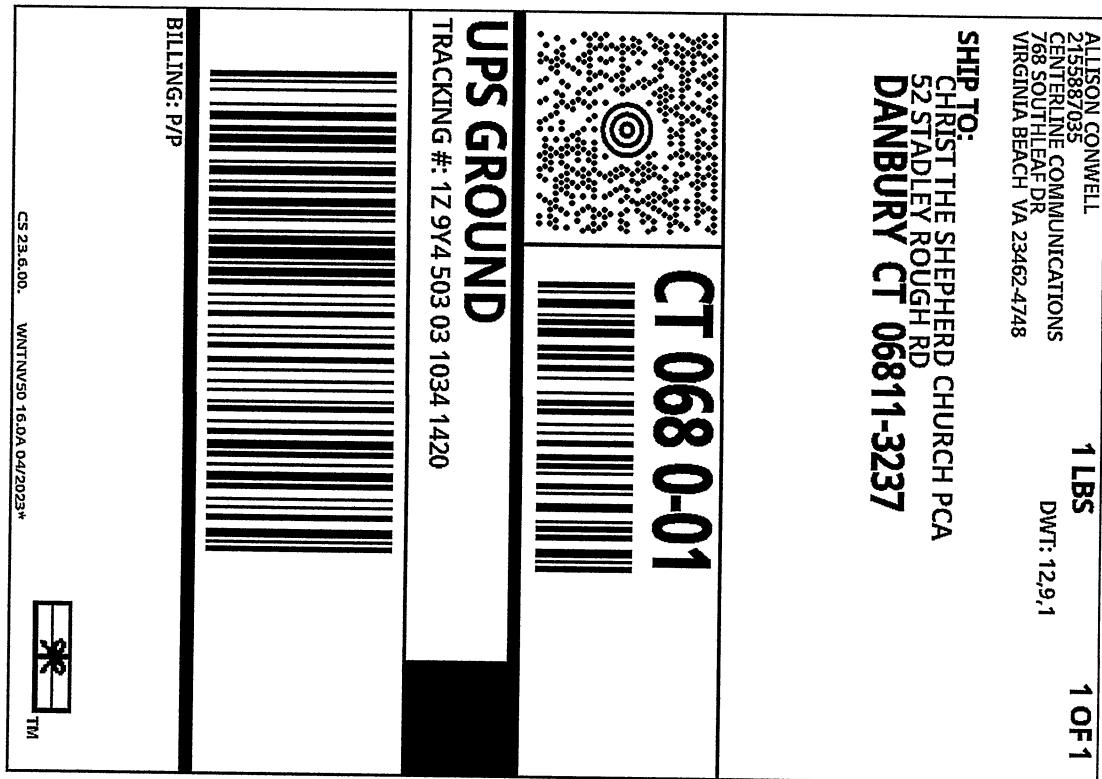
A handwritten signature in black ink that reads "Robert Stein". Above the signature, there is a small, faint mark that appears to be "MAB".

Robert Stein
Chairman

RS/CDM/cm

c: The Honorable Mark D. Boughton, Mayor, City of Danbury
Dennis Elpern, City Planner, City of Danbury
SBA

EXHIBIT 7



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3. GETTING YOUR SHIPMENT TO UPS

Customers with a Daily Pickup
Your driver will pickup your shipment(s) as usual.

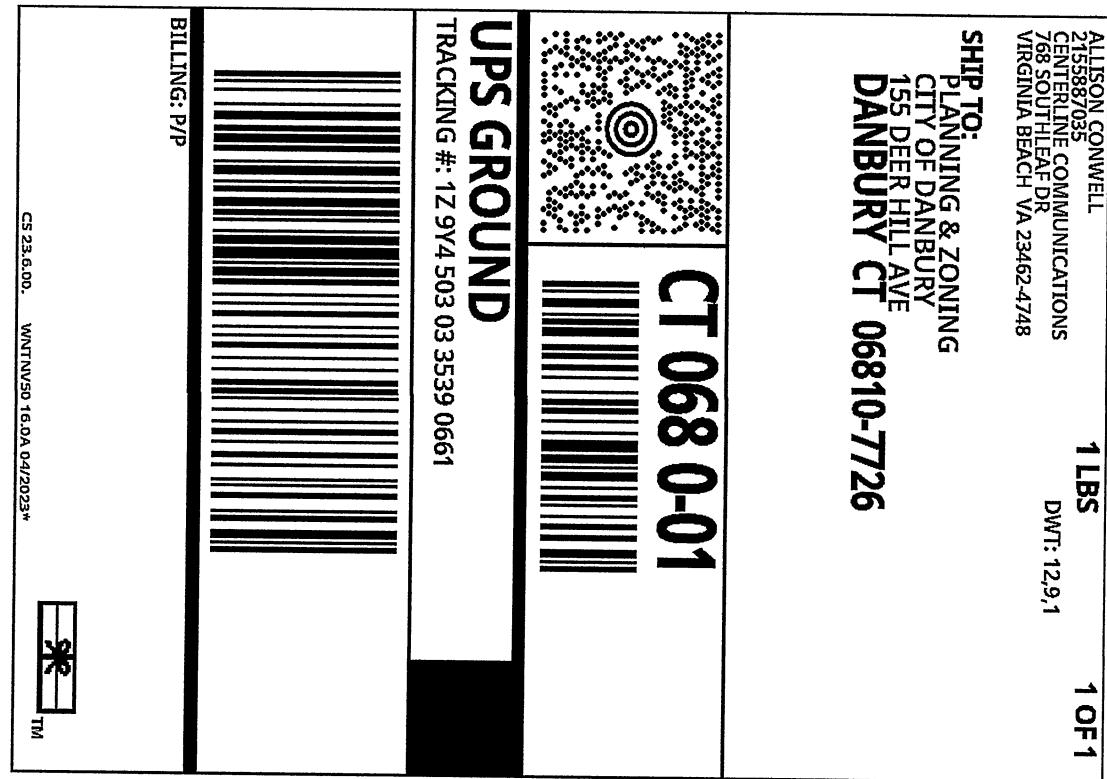
Take your package to any location of The UPS Store®, UPS Access Point™ location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services (SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.

Schedule a same day or future day pickup to have a UPS driver pick up all your CampusShip packages.

Hand the package to any UPS driver in your area.

UPS Access Point™
UPS Access Point™
UPS STORE # 4935
2085 LANNHAREN PKWY
4505 PRINCESS ANN RD
VIRGINIA BEACH, VA 23462
4976 PRINCESS ANN RD
VIRGINIA BEACH, VA 23462
VIRGINIA BEACH, VA 23456
2085 LANNHAREN PKWY
THE UPS STORE
2085 LANNHAREN PKWY
VIRGINIA BEACH, VA 23456
4505 PRINCESS ANN RD
VIRGINIA BEACH, VA 23462

1. Ensure there are no other shipping or tracking labels attached to your package. Select the Print button on the print dialog box that appears. Note: If your browser does not support this function, select Print from the File menu to print the label.
2. Fold the printed label at the solid line below. Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.



FOLD HERE

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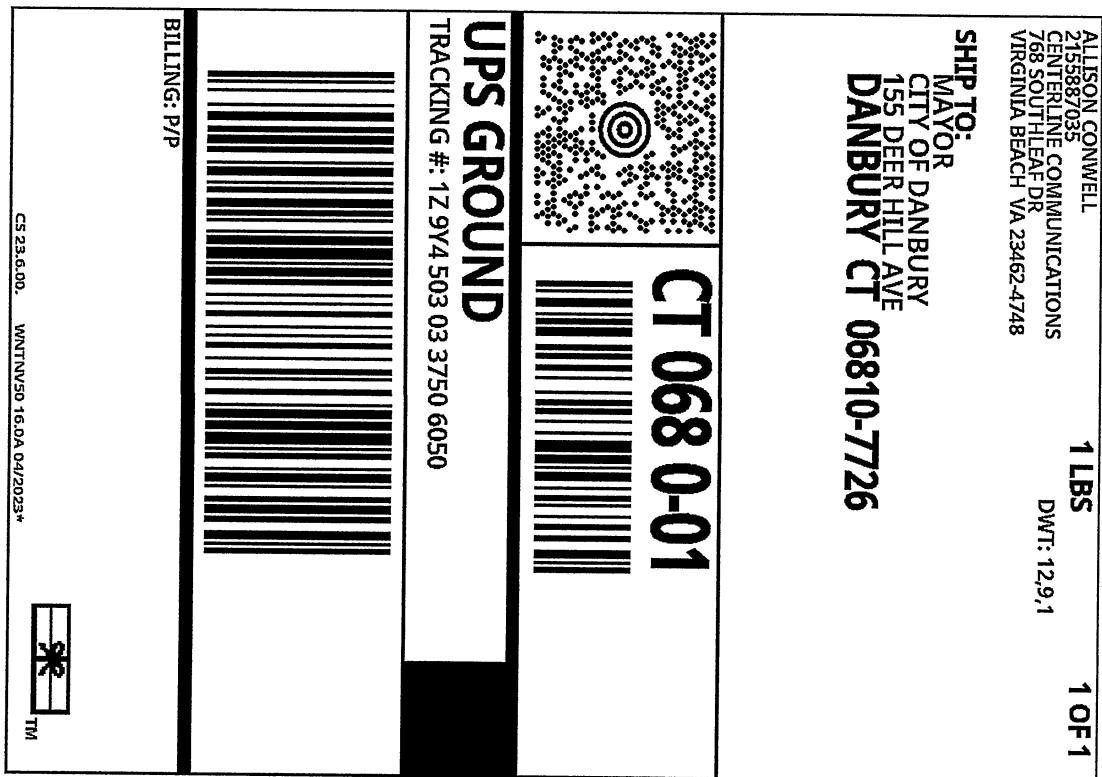
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UPS CampusShip: View/Print Label

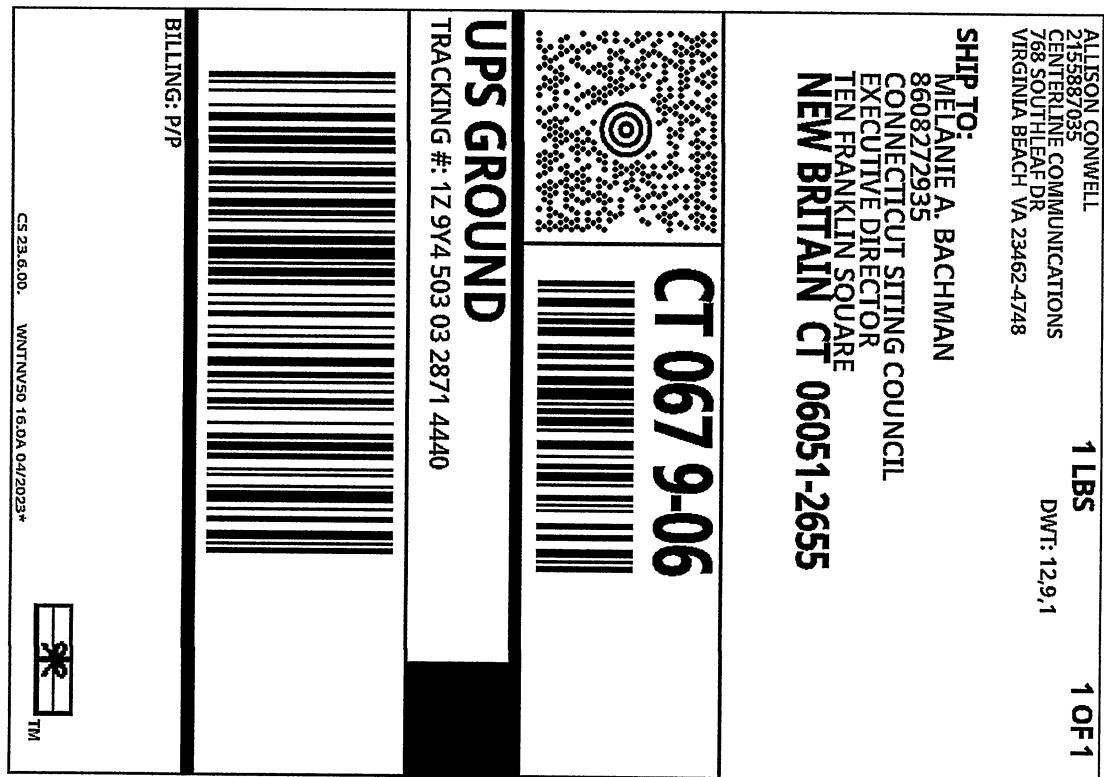
4/17/23, 2:06 PM

UPS CampusShip | UPS - United States



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Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
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