

August 6, 2020

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

**Re:** Notice of Exempt Modifications – AT&T Site CT2089  
AT&T Telecommunications Facility @ 35 Lower County Road Roxbury, CT 06783

Dear Ms. Bachman,

New Cingular Wireless, PCS, LLC (“AT&T”) currently maintains a wireless telecommunications facility on an existing +/- 180’ self-support tower at the above referenced address, latitude 41.5596031, longitude -73.2922211. Said self-support tower is owned and managed by SBA Properties LLC.

AT&T desires to modify its existing telecommunications facility by replacing six (6) antenna, replacing three (3) remote radio units, adding three (3) remote radio units, adding one (1) surge arrestor, adding two (2) DC cables and adding (1) fiber cable as more particularly detailed and described on the enclosed Construction Drawings prepared by Hudson Design Group Engineering, last revised on May 11, 2020. The centerline height of the existing antennas is and will remain at 130 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: Barbara Henry First Selectman of the Town of Roxbury as ground owner as well: John Cody Zoning Enforcement Officer of the Town of Roxbury and SBA Properties LLC as tower 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 alternation 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 July 21, 2020 and prepared by Tower Engineering Solutions 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 Hebel**

*Site Acquisition Consultant – Agent for AT&T*  
*Centerline Communications LLC*  
750 West Center St. Ste 301  
West Bridgewater, MA 02379  
215-588-7035  
ahebel@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 Roxbury Original Tower Approval Records  
                      Exhibit 7 – Notice Deliver Confirmations

Cc:                 Barbara Henry First Selectman, Town of Roxbury as elected official, ground owner  
                      John Cody ZEO, Town of Roxbury  
                      SBA Properties, Tower Owner

CONNECTICUT SITING COUNCIL

Check: 20075  
Date: 6/4/2020  
Vendor: 0

<u>Invoice</u>	<u>P.O. Num.</u>	<u>Invoice Amt</u>	<u>Prior Balance</u>	<u>Retention</u>	<u>Discount</u>	<u>Amt. Paid</u>
566361-030 CT2089		625.00	625.00	0.00	0.00	625.00
		=====	=====	=====	=====	=====
		625.00	625.00	0.00	0.00	625.00

**Centerline Communications LLC**

750 W. Center Street  
Suite 301  
W. Bridgewater, MA 02379  
(781) 713-4725

ROCKLAND TRUST COMPANY  
MEDFIELD, MA 02052

53-447/113

020075

20075

DATE

AMOUNT

6/4/2020

\*\*\*\*\*625.00

PAY  
TO THE  
ORDER  
OF

THE SUM OF SIX HUNDRED TWENTY FIVE DOLLARS AND NO CENTS \*\*\*\*\*

CONNECTICUT SITING COUNCIL

**VOID AFTER 90  
DAYS**

  
AUTHORIZED SIGNATURE

Security features. Details on back



⑈020075⑈ ⑆011304478⑆ 2922009879⑈

CONNECTICUT SITING COUNCIL

Check: 20075  
Date: 6/4/2020  
Vendor: 0

<u>Invoice</u>	<u>P.O. Num.</u>	<u>Invoice Amt</u>	<u>Prior Balance</u>	<u>Retention</u>	<u>Discount</u>	<u>Amt. Paid</u>
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		=====	=====	=====	=====	=====
		625.00	625.00	0.00	0.00	625.00



# EXHIBIT 1

**PROJECT INFORMATION**

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

- NEW AT&T ANTENNAS: DMP65R-BU6DA @ POS. 1 (TYP. OF 1 PER ALPHA & BETA SECTORS, TOTAL OF 2).
- NEW AT&T ANTENNAS: OPA65R-BU6DA @ POS. 2 (TYP. OF 1 PER ALPHA & BETA SECTORS, TOTAL OF 2).
- NEW AT&T ANTENNAS: DMP65R-BU8DA @ POS. 1 (TYP. OF 1 PER GAMMA SECTOR, TOTAL OF 1).
- NEW AT&T ANTENNAS: OPA65R-BU8DA @ POS. 2 (TYP. OF 1 PER GAMMA SECTOR, TOTAL OF 1).
- NEW AT&T RRUS: 4449 B5/B12 (850/700) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T RRUS: 4478 B14 (700) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T DC & FIBER SURGE ARRESTOR DC6-48-60-18-8C-EV (TOTAL OF 1) WITH (2) DC POWER & (1) FIBER RUN.
- REINFORCE EXISTING STANDOFF HORIZONTAL STEEL ANGLES WITH NEW L 3"x3"x1/4" (TYP. OF 2 PER SECTOR, TOTAL OF 6).
- PROPOSED 2" STD. (2.38" O.D.) PIPE BRACE SECURED TO THE EXISTING MOUNT AND TOWER (TYP. OF 1 PER SECTOR, TOTAL OF 3)

ITEMS TO BE MOUNTED AT EQUIPMENT LOCATION:

- ADD (1) IDLe.
- ADD (1) 6630 FOR 5G.
- INSTALL (1) DC 12.
- INSTALL (1) FIBER MANAGEMENT BOX.

ITEMS TO BE REMOVED:

- EXISTING AT&T ANTENNAS: AM-X-CD-16-65-00T-RET (TYP. OF 1 PER ALPHA & BETA SECTORS, TOTAL OF 2).
- EXISTING AT&T ANTENNAS: 7770 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T ANTENNAS: P65-17-XLH-RR (TYP. OF 1 PER GAMMA SECTOR, TOTAL OF 1).
- EXISTING AT&T RRUS: RRUS-11 B12 (700) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T TMAS: T19-08BP111-001 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T DIPLEXERS: LGP 21901 (TYP. OF 2 PER SECTOR, TOTAL OF 6).
- EXISTING (6) COAX

ITEMS TO REMAIN:

- (3) ANTENNAS, (3) TMA'S, (6) DIPLEXERS, (1) SURGE ARRESTOR, (6) COAX CABLES, (2) DC POWER & (1) FIBER.

PTN: 2051A0VCY8,2051A0VF17, 2051A0V2  
 SITE ADDRESS: 35 LOWER COUNTY ROAD ROXBURY, CT 06783  
 LATITUDE: 41.559603° N, 41° 33' 34.57" N  
 LONGITUDE: 73.292221° W, 73° 17' 31.99" W  
 TYPE OF SITE: SELF SUPPORT / INDOOR EQUIPMENT  
 STRUCTURE HEIGHT: 180'-0"±  
 RAD CENTER: 130'-0"±  
 CURRENT USE: TELECOMMUNICATIONS FACILITY  
 PROPOSED USE: TELECOMMUNICATIONS FACILITY

**DRAWING INDEX**

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

**SBA SITE #: CT46125**



**SITE NUMBER: CT2089**

**SITE NAME: ROXBURY CENTRAL**

**FA CODE: 10035277**

**PACE ID: MRCTB047205 & MRCTB047250**

**PROJECT: 2C\_4G LTE\_2021 UPGRADE**

**VICINITY MAP**

DIRECTIONS TO SITE:

DIRECTION TO SITE:  
 START OUT GOING NORTHEAST ON ENTERPRISE DR TOWARD CAPITOL BLVD. 0.4 MI TURN LEFT ONTO CAPITOL BLVD. 0.3 MI TURN LEFT ONTO WEST ST. 0.3 MI MERGE ONTO I-91 S VIA THE RAMP ON THE LEFT TOWARD NEW HAVEN. 9.1 MI MERGE ONTO I-691 W VIA EXIT 18 TOWARD MERIDEN/WATERBURY. 8.0 MI MERGE ONTO I-84 W VIA EXIT 1 ON THE LEFT TOWARD WATERBURY/DANBURY. 18.8 MI TAKE THE US-6 E/CT-67 EXIT, EXIT 15, TOWARD SOUTHBURY. 0.2 MI KEEP RIGHT AT THE FORK TO GO ON MAIN ST N/US-6/CT-67. 1.5 MI TURN LEFT ONTO ROXBURY RD/CT-67. CONTINUE TO FOLLOW CT-67. 6.7 MI TURN RIGHT ONTO CHURCH ST/CT-317. CONTINUE TO FOLLOW CT-317. 0.9 MI TURN RIGHT ONTO LOWER COUNTY RD (PORTIONS UNPAVED). 0.3 MI END AT 35 LOWER COUNTY RD ROXBURY, CT 06783.



**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**

<p>45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845 TEL: (978) 557-5553 FAX: (978) 336-5586</p>	<p>750 WEST CENTER STREET, SUITE #301 WEST BRIDGEWATER, MA 02379</p>	<p><b>SITE NUMBER: CT2089</b>  <b>SITE NAME: ROXBURY CENTRAL</b>  <b>SBA SITE # ID: CT46125</b></p> <p>35 LOWER COUNTY ROAD ROXBURY, CT 06783 LITCHFIELD COUNTY</p>	<p>500 ENTERPRISE DRIVE, SUITE 3A ROCKY HILL, CT 06067</p>	<p>1 06/01/20 ISSUED FOR CONSTRUCTION MR AT DPH</p>	<p><i>Daniel P. Hamm</i>                  No. 24178                  LICENSED PROFESSIONAL ENGINEER</p>	<p>AT&amp;T</p> <p>TITLE SHEET 2C_4G LTE_2021 UPGRADE</p>														
				<p>A 05/11/20 ISSUED FOR REVIEW TR AT DPH</p>			<table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>REVISIONS</th> <th>BY</th> <th>CHK</th> <th>APP'D</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	REVISIONS	BY	CHK	APP'D							<table border="1"> <tr> <th>SITE NUMBER</th> <th>DRAWING NUMBER</th> <th>REV</th> </tr> <tr> <td>CT2089</td> <td>T-1</td> <td>1</td> </tr> </table>
NO.	DATE	REVISIONS	BY	CHK	APP'D															
SITE NUMBER	DRAWING NUMBER	REV																		
CT2089	T-1	1																		

**GROUNDING NOTES**

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

**GENERAL NOTES**

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

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

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

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

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

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

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

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

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

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

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

**SITE NUMBER: CT2089  
 SITE NAME: ROXBURY CENTRAL  
 SBA SITE # ID: CT46125  
 35 LOWER COUNTY ROAD  
 ROXBURY, CT 06783  
 LITCHFIELD COUNTY**

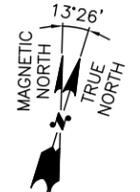
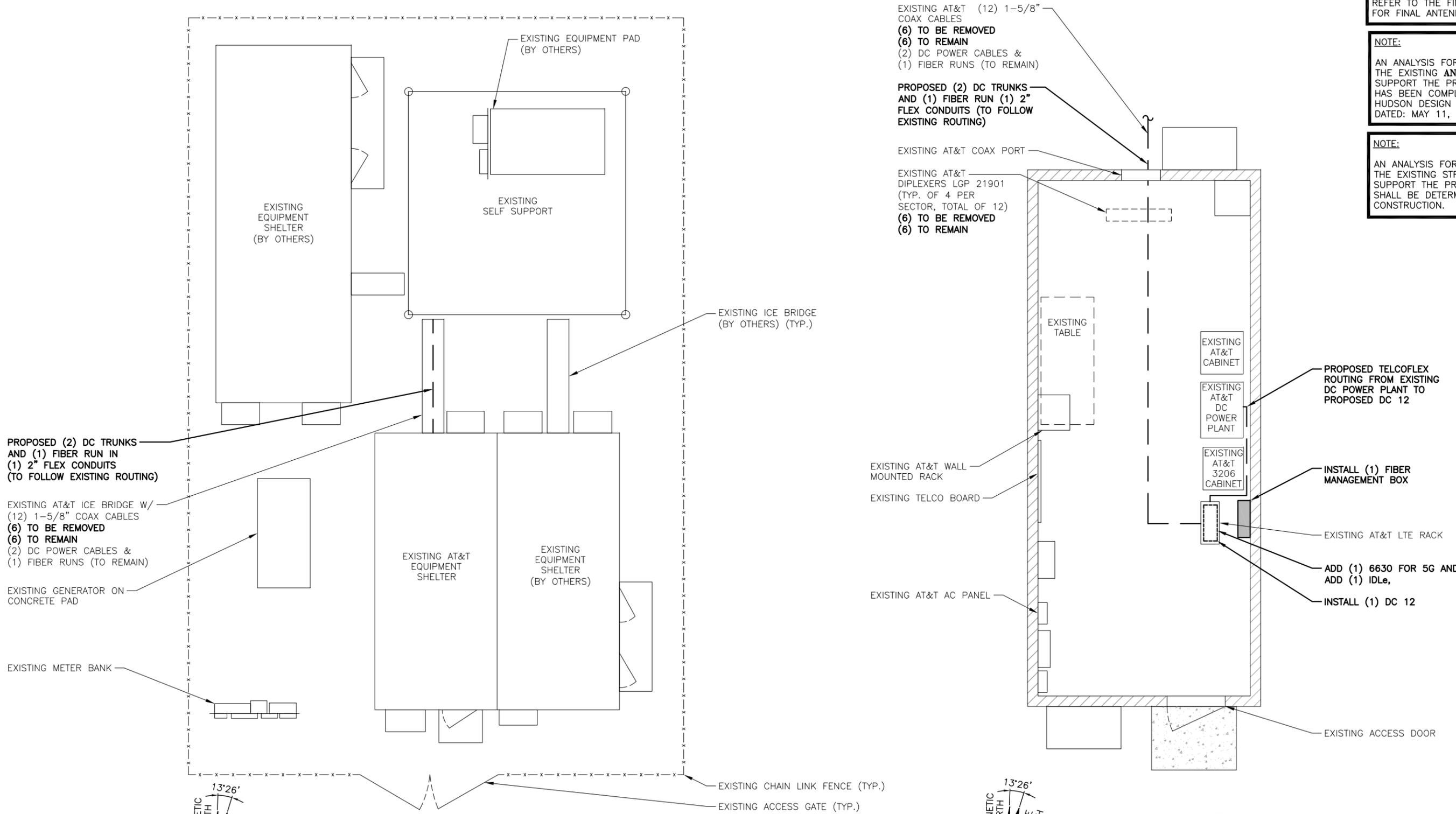
500 ENTERPRISE DRIVE, SUITE 3A  
ROCKY HILL, CT 06067

				AT&T	
				GENERAL NOTES	
				2C_4G LTE_2021 UPGRADE	
NO.		DATE		REVISIONS	
1		06/01/20		ISSUED FOR CONSTRUCTION	
A		05/11/20		ISSUED FOR REVIEW	
BY		CHK		APP'D	
TR		AT		DPH	
MR		AT		DPH	
SCALE: AS SHOWN		DESIGNED BY: AT		DRAWN BY: TR	
SITE NUMBER		DRAWING NUMBER		REV	
CT2089		GN-1		1	

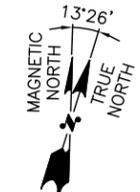
**NOTE:**  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

**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: MAY 11, 2020

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



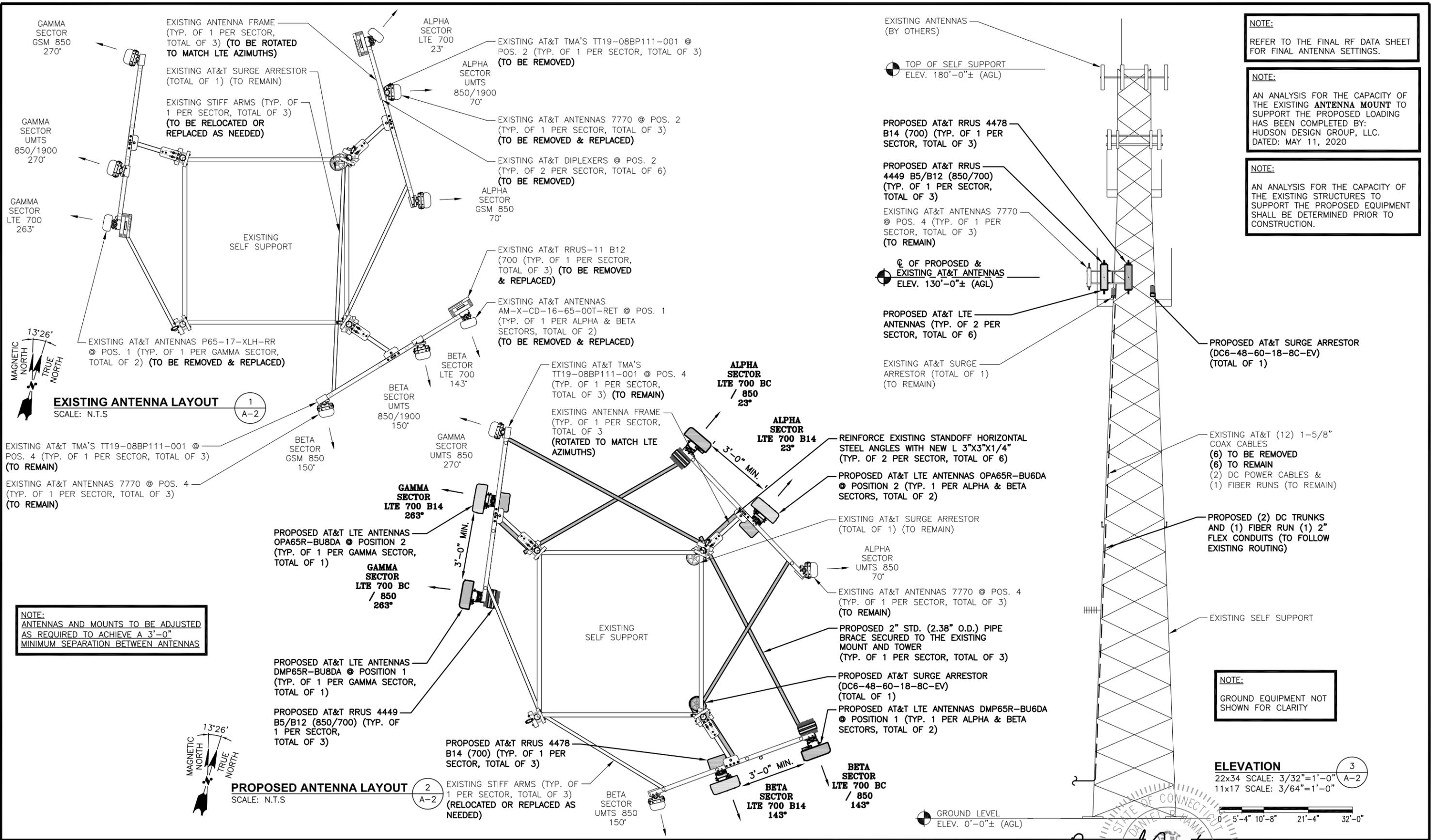
**COMPOUND PLAN**  
 22x34 SCALE: 1/4"=1'-0"  
 11x17 SCALE: 1/8"=1'-0"



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

1	06/01/20	ISSUED FOR CONSTRUCTION	MR	AT	DPH
A	05/11/20	ISSUED FOR REVIEW	TR	AT	DPH
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: AT	DRAWN BY: TR		





**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

**SITE NUMBER: CT2089**  
**SITE NAME: ROXBURY CENTRAL**  
**SBA SITE # ID: CT46125**  
35 LOWER COUNTY ROAD  
ROXBURY, CT 06783  
LITCHFIELD COUNTY

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

1	06/01/20	ISSUED FOR CONSTRUCTION	MR	AT	DPH
A	05/11/20	ISSUED FOR REVIEW	TR	AT	DPH
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: AT	DRAWN BY: TR		

**AT&T**  
ANTENNA LAYOUTS & ELEVATION  
2C\_4G LTE\_2021 UPGRADE

**Daniel P. Hamm**  
No. 24178  
LICENSED PROFESSIONAL ENGINEER

SITE NUMBER	DRAWING NUMBER	REV
CT2089	A-2	1

**ANTENNA SCHEDULE**

SECTOR	EXISTING/ PROPOSED	BAND	ANTENNA	SIZE (INCHES) (L x W x D)	ANTENNA CL HEIGHT	AZIMUTH	TMA/ DIPLEXER	RRU	SIZE (INCHES) (L x W x D)	FEEDER	RAYCAP
A1	PROPOSED	LTE 700 BC / 850	DMP65R-BU6DA	71.2X20.7X7.7	130'-0"±	23°	-	(1)(P) 4449 B5/B12 (700)	17.9x13.2x10.4	(2)(E) DC (1)(E) FIBER	(E) (1) RAYCAP DC6-48-60-18-8F
A2	PROPOSED	LTE 700 B14	OPA65R-BU6DA	71.2X21.7X7.8	130'-0"±	23°	-	(1)(P) 4478 B14 (700)	18.1x13.4x8.3	-	
A3	-	-	-	-	-	-	-	-	-	-	
A4	EXISTING	UMTS 850	7770	55X11X5	130'-0"±	70°	(1)(E) TT19-08BP111-001	-	-	(2)1-5/8 COAX	(P) (1) RAYCAP DC6-48-60-18-8C-EV
B1	PROPOSED	LTE 700 BC / 850	DMP65R-BU6DA	71.2X20.7X7.7	130'-0"±	143°	-	(1)(P) 4449 B5/B12 (700)	17.9x13.2x10.4	(2)(P) DC (1)(P) FIBER	
B2	PROPOSED	LTE 700 B14	OPA65R-BU6DA	71.2X21.7X7.8	130'-0"±	143°	-	(1)(P) 4478 B14 (700)	18.1x13.4x8.3	-	
B3	-	-	-	-	-	-	-	-	-	-	
B4	EXISTING	UMTS 850	7770	55X11X5	130'-0"±	150°	(1)(E) TT19-08BP111-001	-	-	(2)1-5/8 COAX	SHARED
C1	PROPOSED	LTE 700 BC / 850	DMP65R-BU8DA	96X20.7X7.7	130'-0"±	263°	-	(1)(P) 4449 B5/B12 (700)	17.9x13.2x10.4	-	
C2	PROPOSED	LTE 700 B14	OPA65R-BU8DA	96X21X7.8	130'-0"±	263°	-	(1)(P) 4478 B14 (700)	18.1x13.4x8.3	-	
C3	-	-	-	-	-	-	-	-	-	-	
C4	EXISTING	UMTS 850	7770	55X11X5	130'-0"±	270°	(1)(E) TT19-08BP111-001	-	-	(2)1-5/8 COAX	

**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: MAY 11, 2020

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

**FINAL ANTENNA SCHEDULE** 1  
SCALE: N.T.S. A-3

RRU CHART		
QUANTITY	MODEL	SIZE (L x W x D)
(3)(P)	4449 B5/B12 (850/700)	17.9"x13.2"x10.4"
(3)(P)	4478 B14 (700)	18.1"x13.4"x8.3"

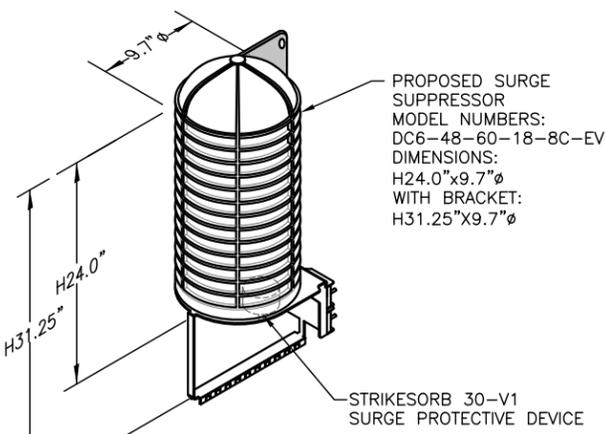
**NOTE:**  
MOUNT PER MANUFACTURER'S SPECIFICATIONS

**NOTE:**  
SEE RFDS FOR RRU FREQUENCY AND MODEL NUMBER

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

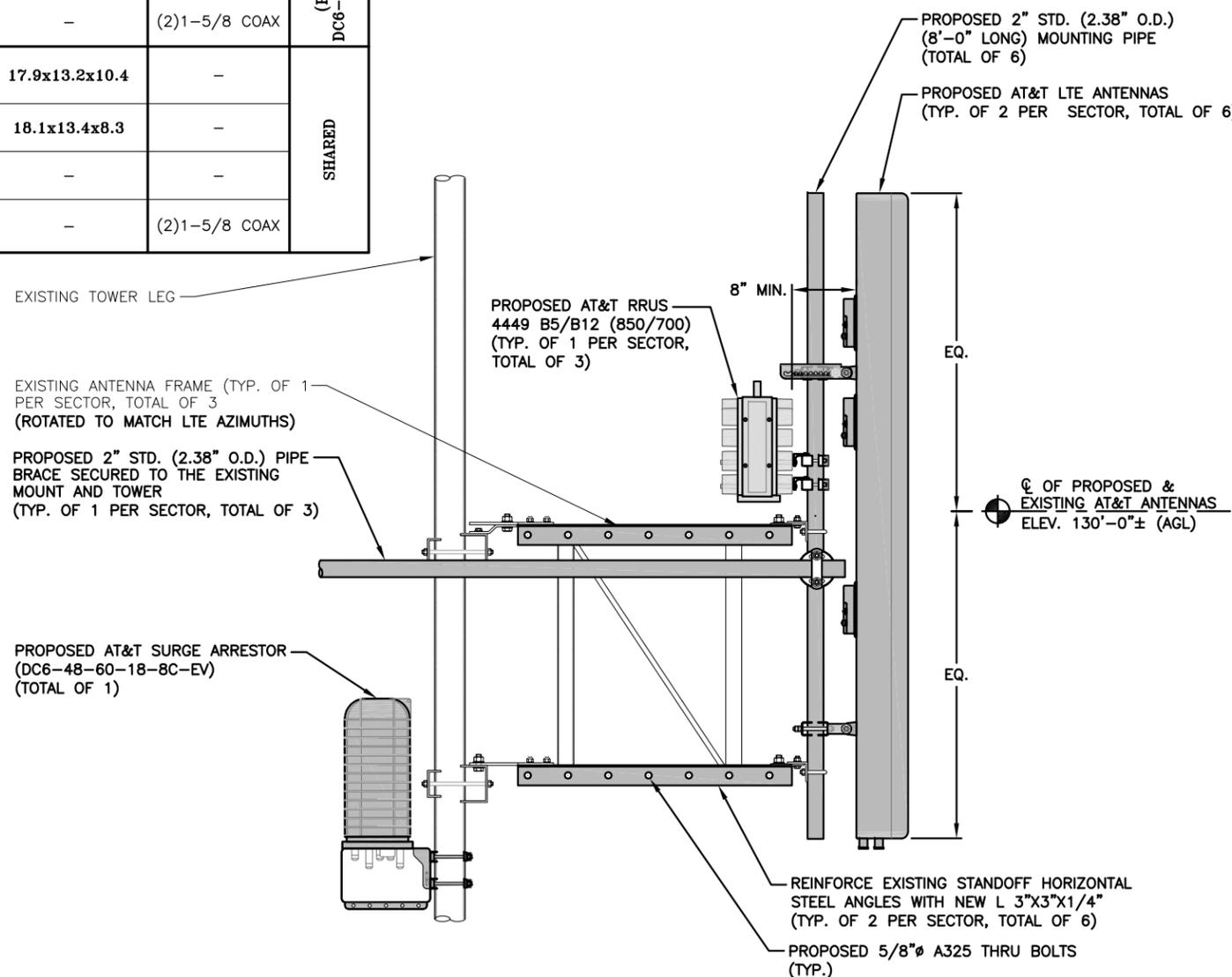
**NOTE:**  
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

**PROPOSED RRUS DETAIL** 2  
SCALE: N.T.S. A-3



**NOTE:**  
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

**DC SURGE SUPPRESSOR DETAIL** 3  
SCALE: N.T.S. A-3



**PROPOSED LTE ANTENNA & RRUS MOUNTING ETAIL** 4  
22x34 SCALE: 1"=1'-0"  
11x17 SCALE: 1/2"=1'-0"

<p>45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845 TEL: (978) 557-5553 FAX: (978) 336-5586</p>	<p>750 WEST CENTER STREET, SUITE #301 WEST BRIDGEWATER, MA 02379</p>	<p>SITE NUMBER: CT2089 SITE NAME: ROXBURY CENTRAL SBA SITE # ID: CT46125</p> <p>35 LOWER COUNTY ROAD ROXBURY, CT 06783 LITCHFIELD COUNTY</p>	<p>500 ENTERPRISE DRIVE, SUITE 3A ROCKY HILL, CT 06067</p>	<p>1 06/01/20 ISSUED FOR CONSTRUCTION MR AT DPH</p> <p>A 05/11/20 ISSUED FOR REVIEW TR AT DPH</p> <p>NO. DATE REVISIONS BY CHK APP'D</p> <p>SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: TR</p>	<p>AT&amp;T</p> <p>DETAILS</p> <p>2C_4G LTE_2021 UPGRADE</p>	<p>SITE NUMBER</p> <p>CT2089</p>	<p>DRAWING NUMBER</p> <p>A-3</p>	<p>REV</p> <p>1</p>
						<p>Professional Engineer Seal: Daniel P. Hamm, No. 24178, State of Connecticut</p>		

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

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

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

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

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

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

**NOTES:**

- ALL CONNECTIONS TO BE SHOP WELDED & FIELD BOLTED USING 3/4"Ø 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.

**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.

**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 <sup>1</sup>
REQUIRED	MATERIAL SPECIFICATIONS REPORT <sup>2</sup>
N/A	FABRICATOR NDE INSPECTION
REQUIRED	PACKING SLIPS <sup>3</sup>

ADDITIONAL TESTING AND INSPECTIONS:

**DURING CONSTRUCTION**

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	STEEL INSPECTIONS
N/A	HIGH STRENGTH BOLT INSPECTIONS
N/A	HIGH WIND ZONE INSPECTIONS <sup>4</sup>
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT
N/A	POST INSTALLED ANCHOR VERIFICATION <sup>5</sup>
N/A	GROUT VERIFICATION
N/A	CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
N/A	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT

ADDITIONAL TESTING AND INSPECTIONS:

**AFTER CONSTRUCTION**

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS <sup>6</sup>
N/A	POST INSTALLED ANCHOR PULL-OUT TESTING
REQUIRED	PHOTOGRAPHS

ADDITIONAL TESTING AND INSPECTIONS:

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

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

**SITE NUMBER: CT2089**  
**SITE NAME: ROXBURY CENTRAL**  
**SBA SITE # ID: CT46125**  
35 LOWER COUNTY ROAD  
ROXBURY, CT 06783  
LITCHFIELD COUNTY

500 ENTERPRISE DRIVE, SUITE 3A  
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No. 24178  
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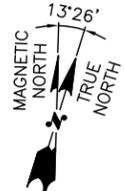
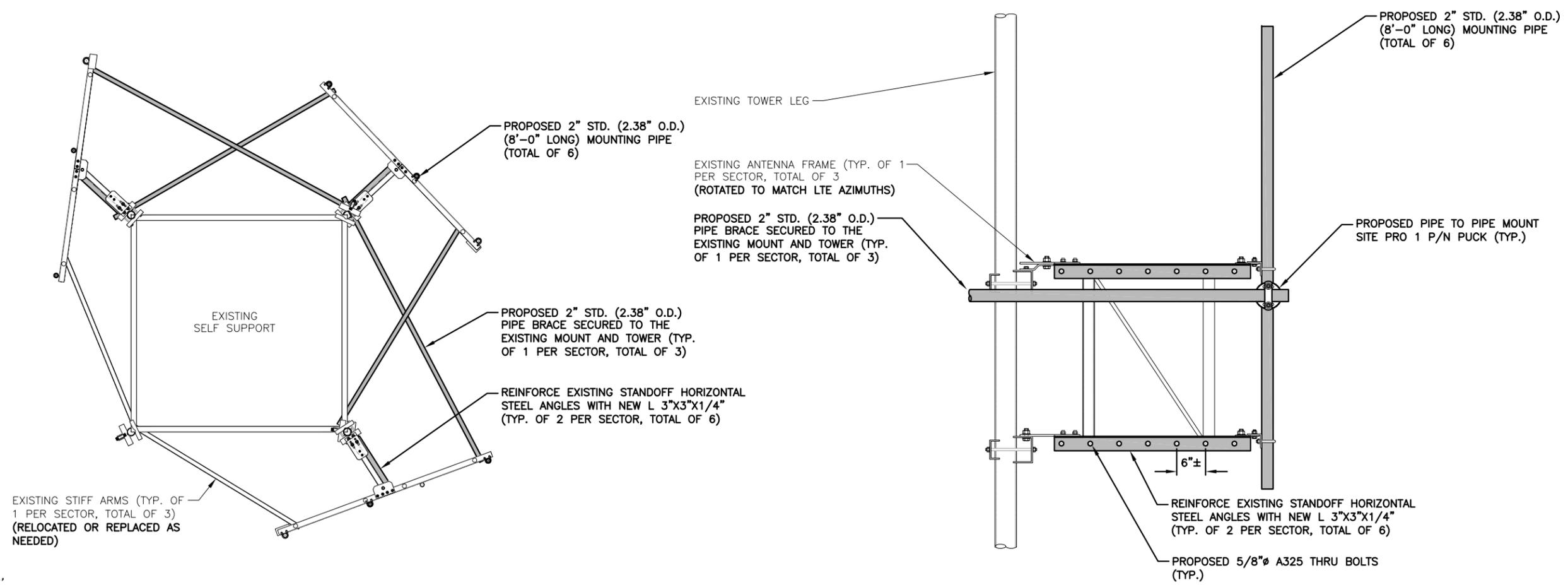
AT&T  
STRUCTURAL NOTES  
2C\_4G LTE\_2021 UPGRADE

SITE NUMBER	DRAWING NUMBER	REV
CT2089	SN-1	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: MAY 11, 2020

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



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



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



**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

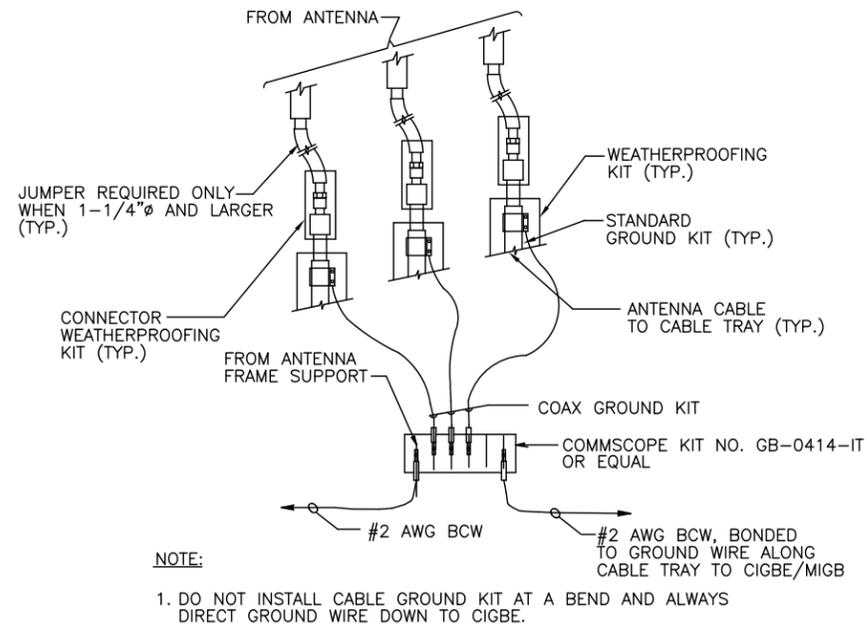
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**at&t**  
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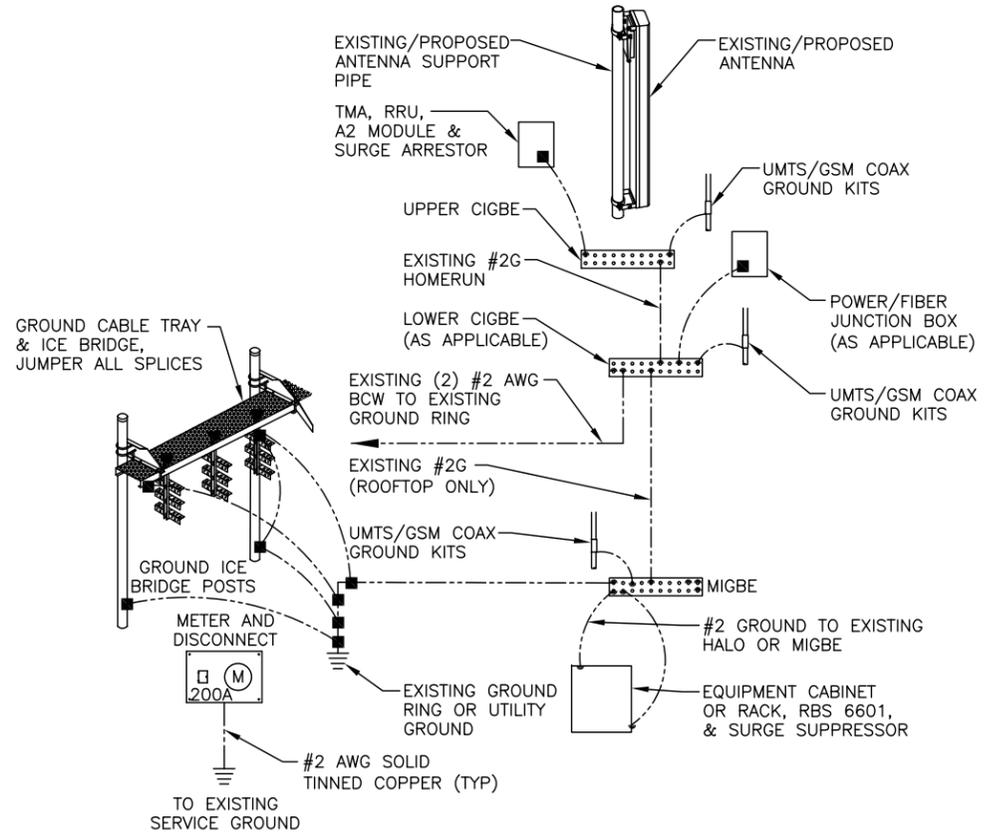
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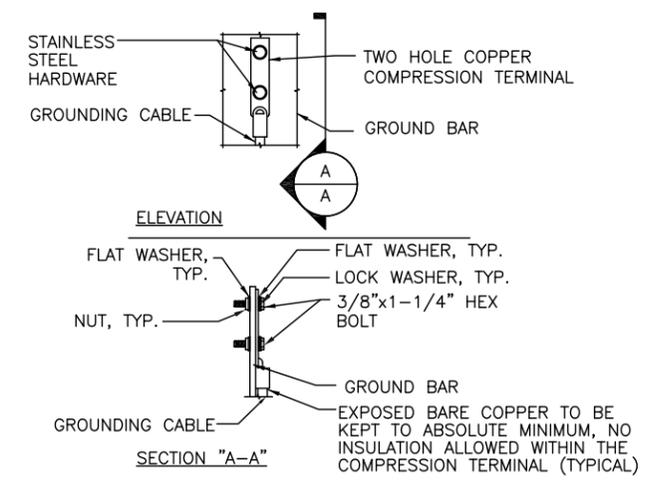
AT&T	
MOUNT MODIFICATION DESIGN 2C_4G LTE_2021 UPGRADE	
SITE NUMBER	DRAWING NUMBER
CT2089	S-1
REV	1



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



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



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

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

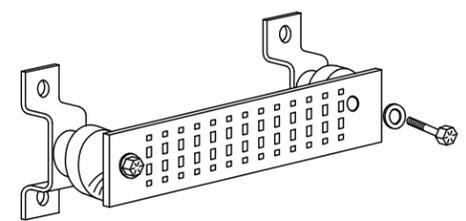
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

**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)



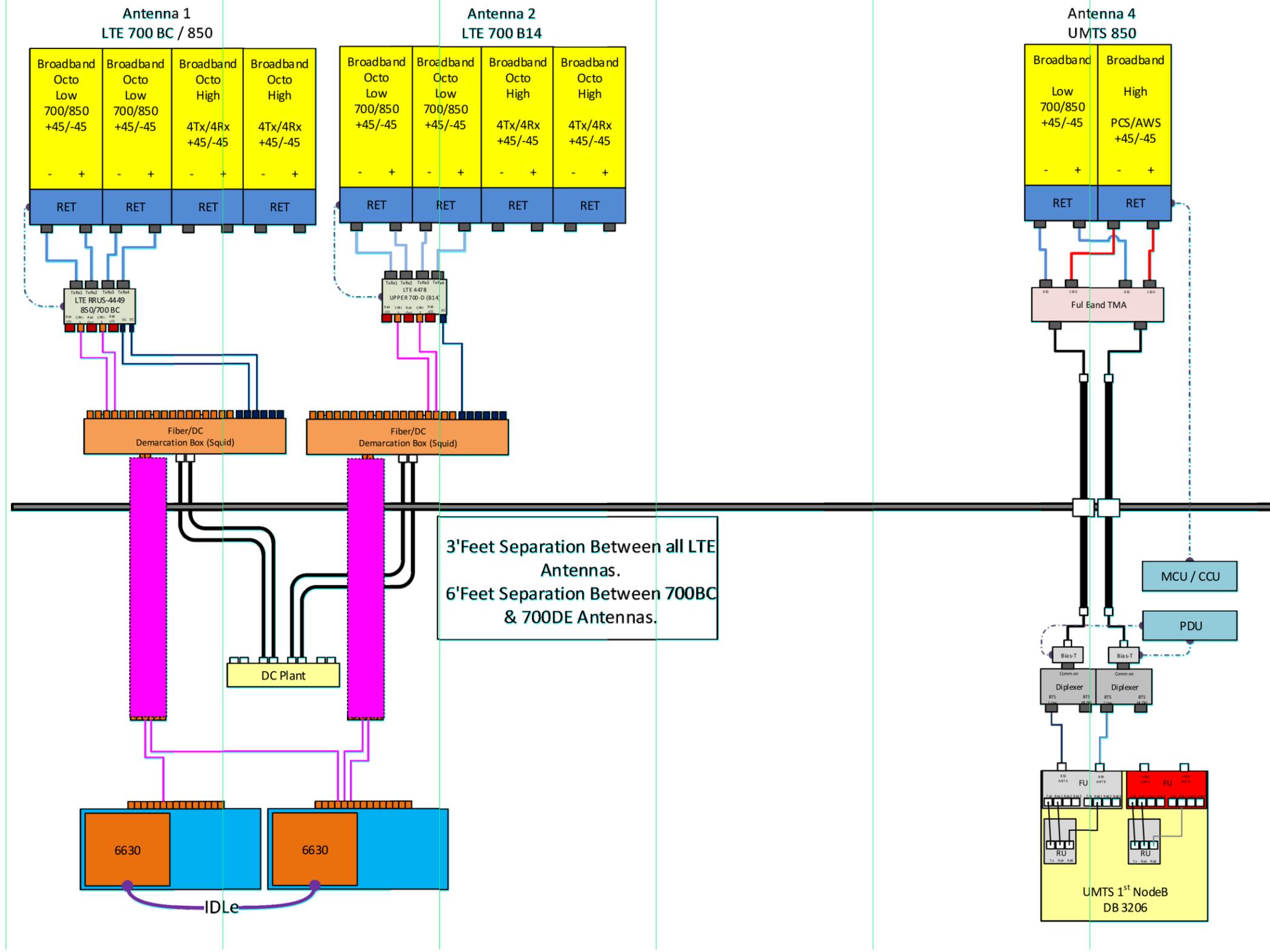
**GROUND BAR - DETAIL (AS REQUIRED)** 4  
SCALE: N.T.S. G-1

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No. 24178  
LICENSED PROFESSIONAL ENGINEER

AT&T	
GROUNDING DETAILS	
2C_4G LTE_2021 UPGRADE	
SITE NUMBER	DRAWING NUMBER
CT2089	G-1
REV	1



3' Feet Separation Between all LTE Antennas.  
6' Feet Separation Between 700BC & 700DE Antennas.

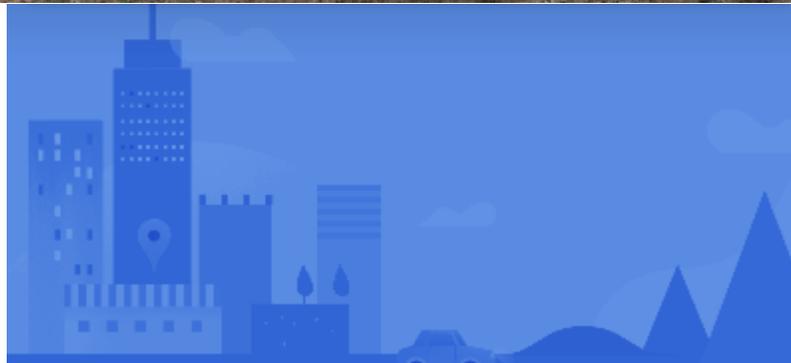
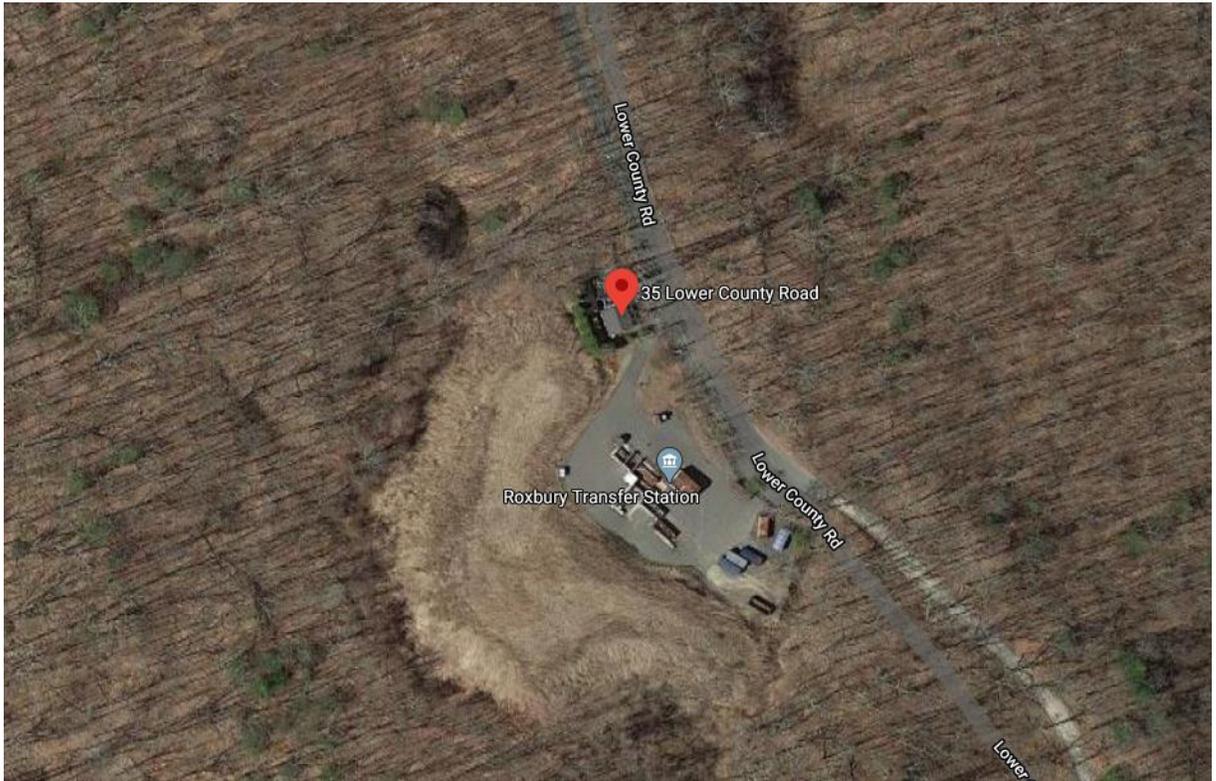
**NOTE:**  
1. CONTRACTOR TO CONFIRM ALL PARTS.  
2. INSTALL ALL EQUIPMENT TO MANUFACTURER'S RECOMMENDATIONS

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

**RF PLUMBING DIAGRAM** 1  
SCALE: N.T.S. RF-1

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

# EXHIBIT 2



## 35 Lower County Rd

Roxbury, CT 06783



Directions



Save



Nearby



Send to your  
phone



Share



## Summary

ParcelId	00059300
Location Address	35 LOWER COUNTY RD
Map-Block-Lot	27/029
Use Class/Description	Vacant
Assessing Neighborhood	C070
Survey	15/30
Acreage	4.78

## Owner

**Current Owner**  
 ROXBURY TOWN OF  
 29 NORTH ST  
 ROXBURY, CT 06783

## Current Appraised Value

	2018	2017	2016	2015
+ Building Value	\$0	\$0	\$0	\$0
+ OB/Misc	\$16,842	\$16,842	\$11,671	\$11,671
+ Land Value	\$289,001	\$289,001	\$289,001	\$289,001
= Total Appraised Value	\$305,843	\$305,843	\$300,672	\$300,672

## Assessment History

	2018	2017	2016	2015
+ Building Value	\$0	\$0	\$0	\$0
+ OB/Misc	\$11,790	\$11,790	\$8,170	\$8,170
+ Land Value	\$202,300	\$157,630	\$161,180	\$161,180
= Total Assessment	\$214,090	\$169,420	\$169,350	\$169,350

## Land

Use	Class	Land Type	Zoning	Area	Value
Vacant	C	Cell Site	C	0.01	\$204,000
Vacant	C	Pub Util Excess	C	4.77	\$85,001

## Out Buildings\Extra Features

Description	Sub Description	Area	Year Built	Value
1 Story Barn	Barn	576	2002	\$12,165
Frame Shed	Shed	384	2002	\$4,677

## Sales History

Sale Date	Sale Price	Deed Book/Page	Reason	Valid Sale	Owner
4/14/1992	\$0	0057/0607		No	ROXBURY TOWN OF

## Permit Information

Permit ID	Issue Date	Type	Amount	Inspection Date	% Complete	Date Complete	Comments
BP14-60	12-05-2013		\$25,000	1/1/1900 12:00:00 AM	100	01-01-1900	REPLACE ANTENNAS/CELL TOWER
BP13-51	01-03-2013		\$25,001	1/1/1900 12:00:00 AM	100	01-01-1900	CELL TOWER MODIFICATION
EP09-35	10-24-2008	Electrical	\$890	1/1/1900 12:00:00 AM	100	10-01-2009	UNDER 100SF
BP09-36	10-17-2008	Outbuilding/Yard Item	\$10,500	1/1/1900 12:00:00 AM	100	10-01-2009	UNDER 100SF
7922	06-05-2001	Review	\$0	1/1/1900 12:00:00 AM	100	10-01-2002	shed
7280	12-16-1999	Review	\$140,000	1/1/1900 12:00:00 AM	100	10-01-2002	radio rooms/tower

No data available for the following modules: Buildings Data, Commercial Building, Sketch, Photos.

The Town of Roxbury Assessor makes every effort to produce the most accurate information possible. No warranties, expressed or implied are provided for the data herein, its use or interpretation. The assessment information is from the last certified tax roll. All other data is subject to change.

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Version 2.3.73

Developed by  
 Schneider  
 GEOSPATIAL

# EXHIBIT 3





**Tower Engineering Solutions**

Phone (972) 483-0607, Fax (972) 975-9615  
1320 Greenway Drive, Suite 600, Irving, Texas 75038

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**Structural Analysis Report**

**Existing 180 ft Nudd Corporation Self Supporting Tower**

**Customer Name: SBA Communications Corp**

**Customer Site Number: CT46125-A**

**Customer Site Name: Roxbury-lower County Rd**

**Carrier Name: AT&T (App#: 137054, v1)**

**Carrier Site ID / Name: CT2089 / Roxbury-Lower County Rd**

**Site Location: Lower County Road**

**Roxbury, Connecticut**

**Litchfield County**

**Latitude: 41.559528**

**Longitude: -73.292305**



**Analysis Result:**

**Max Structural Usage: 94% [Pass]**

**Max Foundation Usage: > 120% [Fail - Rebars]**

**Additional Usage Caused by New Mount/Mount Modification: +1.3%**

**Report Prepared By: Ram Kodali**



**Tower Engineering Solutions**

Phone (972) 483-0607, Fax (972) 975-9615  
1320 Greenway Drive, Suite 600, Irving, Texas 75038

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## **Structural Analysis Report**

**Existing 180 ft Nudd Corporation Self Supporting Tower**  
**Customer Name: SBA Communications Corp**  
**Customer Site Number: CT46125-A**  
**Customer Site Name: Roxbury-lower County Rd**  
**Carrier Name: AT&T (App#: 137054, v1)**  
**Carrier Site ID / Name: CT2089 / Roxbury-Lower County Rd**  
**Site Location: Lower County Road**  
**Roxbury, Connecticut**  
**Litchfield County**  
**Latitude: 41.559528**  
**Longitude: -73.292305**

### **Analysis Result:**

**Max Structural Usage: 94% [Pass]**  
**Max Foundation Usage: > 120% [Fail - Rebars]**  
**Additional Usage Caused by New Mount/Mount Modification: +1.3%**

**Report Prepared By: Ram Kodali**

## Introduction

The purpose of this report is to summarize the analysis results on the 180 ft Nudd Corporation Self Supporting Tower to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

## Sources of Information

<b>Tower Drawings</b>	Fred A. Nudd Corporation, Dwg # 99-7018-1R, dated 10/12/99
<b>Foundation Drawing</b>	Fred A. Nudd Corporation, Dwg # 99-7018-2R, dated 10/12/99
<b>Geotechnical Report</b>	Tectonic Engineering Consultants P.C, Project # 1170.C056, 8/4/99
<b>Modification Drawings</b>	URS, Job # VZ1-052/F04, dated 11/20/03

## Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the TIA-222-G-2. In accordance with this standard, the structure was analyzed using **TESTowers**, a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

<b>Wind Speed Used in the Analysis:</b>	Ultimate Design Wind Speed $V_{ult} = 120$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 93$ mph (3-Sec. Gust)
<b>Wind Speed with Ice:</b>	40 mph (3-Sec. Gust) with 3/4" radial ice concurrent
<b>Operational Wind Speed:</b>	60 mph + 0" Radial ice
<b>Standard/Codes:</b>	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
<b>Exposure Category:</b>	C
<b>Structure Class:</b>	II
<b>Topographic Category:</b>	1
<b>Crest Height:</b>	0 ft
<b>Seismic Parameters:</b>	$S_S = 0.196$ , $S_1 = 0.065$

This structural analysis is based upon the tower being classified as a Structure Class 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.

## Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	179.3	1	10' Dipole	Pipe	(1) 1/2"	Town of Roxbury
2	178.5	1	5' Omni - Whip	Pipe	(1) 7/8"	
3	177.0	3	NNVV-65B-R4 - Panel	(3) Sector Frame w/ (3) Tie Back Kit	(4) 1-1/4" Fiber	Sprint Nextel
4		3	APXVTM14-C-120 - Panel			
5		3	1900 MHz RRU			
6		6	800 MHz RRU			
7		3	TD-RRH 8x20-25 RRU			
8	163.0	3	BXA-70063-6CF-2 - Panel	(3) Sector Frame	(12) 1 5/8"	Verizon
9		6	LPA-80080-6CF - Panel			
10		3	BXA-171085-8CF-2 - Panel			
11		6	FD9R6004/2C-3L			
12	141.5	1	18' Dipole	(2) Side Arm	(2) 1/2"	Town of Roxbury
13		1	10' Dipole			
-	130.0	2	KMW AM-X-CD-15-85-00T-RET - Panel	(3) Sector Frame	(12) 1 5/8" (1) 3" Conduit (Housing (1) 7/16" fiber & (2) 3/4" DC)	AT&T
-		6	Powerwave 7770 - Panel			
-		3	CSS DUO4-8670 - Panel			
-		1	Powerwave P65-17-XLH-RR - Panel			
-		3	Raycap DC6-48-60-18-8F			
24	18.0	1	Yagi	Leg	(1) 1/2"	Town of Roxbury

## Proposed Carrier's Final Configuration of Antennas, Mounts and Transmission Lines

Information pertaining to the proposed carrier's final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
14	130.0	3	Powerwave 7770 - Panel	(3) Sector Frame w/ (2) New 2" std pipe brace per each sector frame & (2) L3x3x1/4 angles per each Stand-Off Reinforcement	(6) 1 5/8" (1) 7/16" Fiber (2) 3/4" DC (1) 3" Conduit (Housing (1) 7/16" fiber & (2) 3/4" DC)	AT&T
15		2	CCI DMP65R-BU6DA - Panel			
16		2	CCI OPA65R-BU6DA - Panel			
17		1	CCI DMP65R-BU8DA - Panel			
18		1	CCI OPA65R-BU8DA - Panel			
19		3	Powerwave 7020.00 RET			
20		3	Ericsson RRUS 4478 B14			
21		3	Ericsson 4449 B5/B12			
22		3	Ericsson RRUS 8843 B2 B66A			
23		2	Raycap DC6-48-60-18-8F			

See the attached coax layout for the line placement considered in the analysis.

## Analysis Results

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

Tower Component	Legs	Diagonals	Horizontals	Anchor bolts
Max. Usage:	<b>61.4%</b>	<b>57.5%</b>	<b>3.1%</b>	<b>94%</b>
Pass/Fail	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

## Foundations

	Compression (Kips)	Uplift (Kips)	Shear (Kips)
Analysis Reactions	221.1	203.6	23.5

The foundation has been investigated using the supplied documents and soils report and was found to be inadequate to support the reactions resulting from the current analysis. Therefore, modifications to the existing foundation will be necessary.

## **Operational Condition (Rigidity)**

Operational characteristics of the tower are found to be within the limits prescribed by ANSI/TIA/EIA 222-G for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 0.1232 degrees under the operational wind speed as specified in the Analysis Criteria.

## **Conclusions**

Based on the analysis results, the existing structure and its foundation were found to be inadequate to safely support the existing and proposed equipment and meet the minimum requirements per the ANSI/TIA/EIA 222-G Standard under the design basic wind speed as specified in the Analysis Criteria. The following modifications to the existing structure will be required.

- Reinforce the existing foundation.

A modification packet (including design drawings) can be provided under a separate scope of work.

# EXHIBIT 4



May 11, 2020



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

RE:      Site Number:                    CT2089 (LTE 2C/RETRO/5G NR)  
            FA Number:                     10035277  
            PACE Number:                    MRCTB047205  
            PT Number:                      2051A0VCY8  
            Site Name:                        ROXBURY CENTRAL  
            Site Address:                     35 Lower County Road  
    Roxbury, CT 06783

To Whom It May Concern:

Hudson Design Group LLC (HDG) has been authorized by Centerline Communications to perform a mount analysis on the existing AT&T antenna/RRH mounts to determine their capability of supporting the following additional loading:

- (3) 7770 Antennas (55.0"x11.0"x5.0" - Wt. = 35 lbs. /each)
- (3) TT19-08BP1111-001 TMA's (9.9"x6.7"x5.4" - Wt. = 16 lbs. /each)
- (1) Squid Surge Arrestor (24.0"x9.7"  $\Phi$  - Wt. = 33 lbs. /each) (Tower Mount)
- **(2) DMP65R-BU6DA Antennas (71.2"x20.7"x7.7" - Wt. = 80 lbs. /each)**
- **(2) OPA65R-BU6DA Antennas (71.2"x21.0"x7.8" - Wt. = 64 lbs. /each)**
- **(1) DMP65R-BU8DA Antennas (96.0"x20.7"x7.7" - Wt. = 96 lbs. /each)**
- **(1) OPA65R-BU8DA Antennas (96.0"x21.0"x7.8" - Wt. = 77 lbs. /each)**
- **(3) 4449 B5/B12 RRH's (17.9"x13.2"x9.5" - Wt. = 71 lbs. /each)**
- **(3) B14 4478 RRH's (18.1"x13.4"x8.3" - Wt. = 60 lbs. /each)**
- **(1) Squid Surge Arrestor (24.0"x9.7"  $\Phi$  - Wt. = 33 lbs. /each) (Tower Mount)**

*\*Proposed equipment shown in bold*

No original structural design documents or fabrication drawings were available for the existing mounts. HDG's subconsultant, ProVertic LLC, conducted a survey climb and mapping of the existing AT&T antenna mounts on March 24, 2020.

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 2015 with 2018 Connecticut State Building Code, and AT&T Mount Technical Directive – R13.
- HDG 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 N 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 1.31 in was used for this analysis.
- HDG considers this site to be exposure category B; tower is located in an urban/suburban or wooded area with numerous closely spaced obstructions.
- HDG considers this site to be topographic category 3; tower is located at the upper half of a hill.
- The mount has been analyzed with load combinations consisting of 250 lbs live load using a service wind speed of 30 mph wind on the worst case antenna. Analysis performed on each antenna pipe to determine worst case location; worst case location was antenna position 1.
- The mount has been analyzed with load combinations consisting of a 250 lbs live load in a worst case location on the mount.
- The existing mount is secured to the existing tower with clamps and threaded rods. The connection is considered OK by visual inspection.

Based on our evaluation, we have determined that the existing mounts **ARE NOT CAPABLE** of supporting the proposed installation. HDG recommends the following modifications:

- **Install new 2" std. (2.38" O.D.) pipe brace secured to the existing mount and tower (typ. of 1 per sector, total of 3).**
- **Reinforce existing standoff horizontal steel angles with new L 3x3x1/4 angles (typ. of 2 per sector, total of 6).**

	Component	Controlling Load Case	Stress Ratio	Pass/Fail
<b>Existing (LTE LTE 2C/RETRO/5G NR) Mount Rating</b>	7	LC2	195%	<b>FAIL</b>
<b>Modified (LTE LTE 2C/RETRO/5G NR) Mount Rating</b>	35	LC2	94%	<b>PASS</b>

Reference Documents:

- Mount mapping report prepared by ProVertic LLC.

This determination was based on the following limitations and assumptions:

1. HDG is not responsible for any modifications completed prior to and hereafter which HDG 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 existing mount has 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. HDG 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,  
Hudson Design Group LLC



Michael Cabral  
Vice President



Daniel P. Hamm, PE  
Principal

# EXHIBIT 5





# Radio Frequency Emissions Analysis Report

AT&T

Site Name: **Roxbury Central**

35 Lower County Road  
Roxbury, CT 06783

**June 4, 2020**

Site Compliance Summary	
Compliance Status:	<b>Compliant</b>
AT&T Contribution MPE% of FCC general population	<b>0.04276%</b>
Site total MPE% of FCC general population allowable limit:	<b>0.10614%</b>



June 4, 2020

AT&T Mobility – New England  
Attn: John Benedetto, RF Manager

### Emissions Analysis for Site: **Roxbury Central**

Centerline Communications, LLC (“Centerline”) was directed to analyze the proposed AT&T facility to be located on a **self-support tower** near **35 Lower County Road, Roxbury CT 06783** for the purpose of determining whether the emissions from the proposed facility are within specified federal limits.

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

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

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

Population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ). The general population exposure limits for the 700 MHz (LTE) is  $467 \mu\text{W}/\text{cm}^2$ ; and for the 850 MHz (UMTS, LTE, 5G) bands is  $567 \mu\text{W}/\text{cm}^2$ .



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.



## CALCULATIONS

Centerline Communications, LLC has performed theoretical modeling using Waterford Consultants' RoofMaster™ 2015 Version 19.12.13.19 which 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. This modeling technique is accurate with low antenna centerlines, such as rooftops, where persons can get close to the antennas and pass through fields in close proximity.

The modeling is based on worst-case assumptions for the number of antennas and transmitter power. No losses were included in the power calculations unless they were specifically provided for the project.

For each sector the following channel counts, frequency bands and power levels were utilized as shown in *Table 1*:

RRH #	Technology	Frequency Band	Channel Count	Transmit Power per Channel (W)
1	LTE	700	1	40
1	LTE	850	1	40
1	5G	850	2	40
2	LTE	700	4	40
3	UMTS	850	2	20

*Table 1: Channel Data Table*



The following antennas listed in *Table 2* were used in the modeling for transmission in the 700 MHz (LTE) and 850 MHz (UMTS, LTE, 5G) frequency bands. This is based on information from the carrier with regard to anticipated antenna selection.

Sector	Antenna Number	Antenna Make / Model	Antenna Centerline (ft)
A	1	CCI DMP65R-BU6D	130.00
A	1	CCI DMP65R-BU6D	130.00
A	1	CCI DMP65R-BU6D	130.00
A	2	CCI DMP65R-BU6D	130.00
A	3	Powerwave 7770	130.00
B	4	CCI DMP65R-BU6D	130.00
B	4	CCI DMP65R-BU6D	130.00
B	4	CCI DMP65R-BU6D	130.00
B	5	CCI DMP65R-BU6D	130.00
B	6	Powerwave 7770	130.00
C	7	CCI DMP65R-BU6D	130.00
C	7	CCI DMP65R-BU6D	130.00
C	7	CCI DMP65R-BU6D	130.00
C	8	CCI DMP65R-BU6D	130.00
C	9	Powerwave 7770	130.00

*Table 2: Antenna Data*

All calculations were done with respect to uncontrolled / general population threshold limits.



## RESULTS

Per the calculations completed for the proposed AT&T configurations *Table 3* shows resulting emissions power levels and percentages of the FCC’s allowable general population limit.

Antenna ID	Antenna Make / Model	Frequency Bands	Antenna Gain (dBd)	Antenna Height (ft)	Channel Count	Total TX Power (W)	ERP (W)	MPE %
Antenna A1	CCI DMP65R-BU6D	700	11.55	130.00	1	40	571.557583	0.000002605
Antenna A1	CCI DMP65R-BU6D	850	11.35	130.00	1	40	545.833255	0.000000088
Antenna A1	CCI DMP65R-BU6D	850	11.35	130.00	2	80	1091.66651	0.000000175
Antenna A2	CCI DMP65R-BU6D	700	11.25	130.00	4	160	2133.63429	0.000012660
Antenna A3	Powerwave 7770	850	11.35	130.00	2	40	545.833255	0.000061707
Antenna B1	CCI DMP65R-BU6D	700	11.65	130.00	1	40	584.87087	0.004966521
Antenna B1	CCI DMP65R-BU6D	850	11.45	130.00	1	40	558.547344	0.003723137
Antenna B1	CCI DMP65R-BU6D	850	11.45	130.00	2	80	1117.09469	0.007439613
Antenna B2	CCI DMP65R-BU6D	700	11.65	130.00	4	160	2339.48348	0.024142650
Antenna B3	Powerwave 7770	850	11.35	130.00	2	40	545.833255	0.002404554
Antenna C1	CCI DMP65R-BU6D	700	11.75	130.00	1	40	598.494262	0.000000588
Antenna C1	CCI DMP65R-BU6D	850	11.45	130.00	1	40	558.547344	0.000001337
Antenna C1	CCI DMP65R-BU6D	850	11.45	130.00	2	80	1117.09469	0.000002671
Antenna C2	CCI DMP65R-BU6D	700	11.75	130.00	4	160	2393.97705	0.000002705
Antenna C3	Powerwave 7770	850	11.35	130.00	2	40	545.833255	0.000002605
AT&T Contribution								<b>0.042764 %</b>

*Table 3: AT&T Antenna Inventory & Power Levels*



FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. *Table 6* below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated AT&T sector(s).

Frequency Band	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density (PW/cm <sup>2</sup> )	Technology	Allowable MPE (PW/cm <sup>2</sup> )	Calculated % MPE
700	1	571.5576	130.00	0.000012154	LTE	467	0.000002605
850	1	545.8333	130.00	0.000000496	LTE	567	0.000000088
850	2	545.8333	130.00	0.000000992	5G	567	0.000000175
700	4	533.4086	130.00	0.000059080	LTE	467	0.000012660
850	2	272.9166	130.00	0.000349675	5G	567	0.000061707
700	1	584.8709	130.00	0.023177099	LTE	467	0.004966521
850	1	558.5473	130.00	0.021097775	LTE	567	0.003723137
850	2	558.5473	130.00	0.042157807	5G	567	0.007439613
700	4	584.8709	130.00	0.112665700	LTE	467	0.024142650
850	2	272.9166	130.00	0.013625804	5G	567	0.002404554
700	1	598.4943	130.00	0.000002744	LTE	467	0.000000588
850	1	558.5473	130.00	0.000007575	LTE	567	0.000001337
850	2	558.5473	130.00	0.000015137	5G	567	0.000002671
700	4	598.4943	130.00	0.000012622	LTE	467	0.000002705
850	2	272.9166	130.00	0.000012154	5G	567	0.000002605
						<b>AT&amp;T</b>	<b>0.042764%</b>

*Table 6: AT&T Maximum Sector MPE Power Values*



## Summary

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

The anticipated maximum composite contributions from the AT&T facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

Site Total	Power Density Value (%)
AT&T Contribution:	0.042764%
Other Carrier Contribution:	0.06338%
<b>Site Total:</b>	<b>0.10614%</b>
Site Compliance Status:	<b>Compliant</b>

The anticipated composite MPE value for this site assuming all carriers present is **0.10614%** of the allowable FCC established general population limit sampled at the ground level.

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

A handwritten signature in black ink, appearing to read 'Erin Kavanaugh', is positioned above the contact information.

Erin Kavanaugh  
RF EME Technical Writer  
**Centerline Communications, LLC**

750 West Center St. Suite 301  
West Bridgewater, MA 02379

# 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@po.state.ct.us](mailto:siting.council@po.state.ct.us)Web Site: [www.state.ct.us/csc/index.htm](http://www.state.ct.us/csc/index.htm)

August 16, 2002

Christopher D. Fisher, Esq.  
Cukly & Feder & Worby LLP  
90 Maple Avenue  
White Plains, NY 10601-5196

CT-656

RE: EM-AT&T-120-020805 - AT&T Wireless PCS, LLC d/b/a AT&T Wireless notice of intent to modify an existing telecommunications facility located at 35 Lower County Road, Roxbury, Connecticut.

Dear Attorney Fisher:

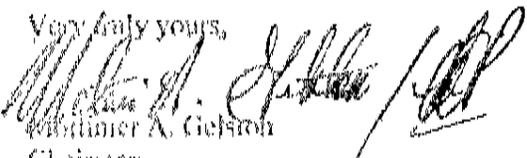
At a public meeting held on August 15, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice received in our office on August 5, 2002. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50n 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.

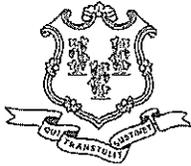
Thank you for your attention and cooperation.

Very truly yours,

  
William A. Gelsman  
Chairman

MAG/DM/laf

c: Honorable Barbara Henry, First Selectman, Town of Roxbury  
Nancy Brasie, Zoning Enforcement Officer, Town of Roxbury  
Thomas F. Flynn III, Nextel Communications  
Michele G. Briggs, Southwestern Bell Mobile Systems, LLC



STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051  
Phone: (860) 827-2935 Fax: (860) 827-2950  
E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)  
[www.ct.gov/csc](http://www.ct.gov/csc)

June 30, 2009

Steven L. Levine  
Real Estate Consultant  
New Cingular Wireless PCS, LLC  
500 Enterprise Drive  
Rocky Hill, CT 06067-3900

DMTS # 229  
2089 Roxbury

RE: **EM-CING-120-090529** – New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 35 Lower County Road, Roxbury, Connecticut.

Dear Mr. Levine:

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

The proposed modifications are to be implemented as specified here and in your notice dated May 29, 2009 and additional information received on June 30, 2009, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

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

Thank you for your attention and cooperation.

Very truly yours,

S. Derek Phelps  
Executive Director

SDP/MP/laf

c: The Honorable Barbara Henry, First Selectman, Town of Roxbury  
James Pierpont, Zoning Enforcement Officer, Town of Roxbury  
Thomas J. Regan, Esq., Brown Rudnick LLP



## Allison Hebel

---

**From:** John Cody <jcody@roxburyct.com>  
**Sent:** Thursday, July 2, 2020 8:22 AM  
**To:** Allison Hebel  
**Subject:** RE: CT2089 // 35 Lower County Rd Roxbury

Yes those were given to me by the building department.

John

---

**From:** Allison Hebel <ahebel@clinellc.com>  
**Sent:** Thursday, July 2, 2020 4:57 AM  
**To:** John Cody <jcody@roxburyct.com>  
**Subject:** CT2089 // 35 Lower County Rd Roxbury

Hi John,  
Per our conversation (attached) can you confirm that the documents you provided were all you were able to find?

Best Regards,



**Allison Hebel | Site Acquisition Consultant**  
750 West Center St. Suite 301 | West Bridgewater, MA 02379  
Phone: 215.588.7035 Fax: 508.819.3017  
[ahebel@clinellc.com](mailto:ahebel@clinellc.com) | [www.centerlinecommunications.com](http://www.centerlinecommunications.com)

# EXHIBIT 7



UPS CampuShip: View/Print Label

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.

3. GETTING YOUR SHIPMENT TO UPS

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

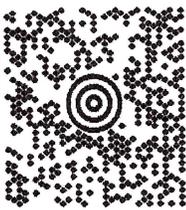
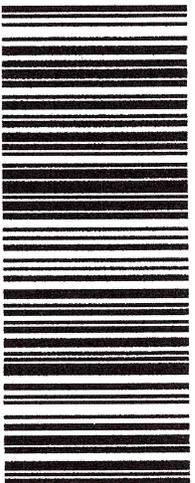
**Customers without a Daily Pickup**  
 Take your package to any location of The UPS Store®, UPS Access Point™ location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampuShip and select UPS Locations.  
 Schedule a same day or future day Pickup to have a UPS driver pickup all your CampuShip packages.  
 Hand the package to any UPS driver in your area.

UPS Access Point™  
 ADVANCE AUTO PART STORE 6538  
 8410 OSWEGO RD  
 LIVERPOOL, NY 13090

UPS Access Point™  
 THE UPS STORE  
 8417 OSWEGO RD  
 BALDWINSVILLE, NY 13027

UPS Access Point™  
 ADVANCE AUTO PART STORE 6324  
 3731 BREWERTON RD  
 SYRACUSE, NY 13212

FOLD HERE

ALLISON HEBEL 2155887035 CENTERLINE COMMUNICATIONS 59 BAKERY CIRCLE LIVERPOOL, NY 130902934	<b>1 LBS</b>  DWT: 12.9,1	<b>1 OF 1</b>
<b>SHIP TO:</b> SITE ADMINISTRATION SBA 2012 T.C ASSETS LLC 2ND FLOOR 8051 CONGRESS AVE <b>BOCA RATON FL 33487-1307</b>		
		
		
<h1>FL 332 6-07</h1>		
<b>UPS GROUND</b> TRACKING #: 1Z 9Y4 503 03 2512 9276		
		
BILLING: P/P		
CS 22.0.11.    WNTWISO 31.06.07/2020		
		

UPS CampuShip: View/Print Label

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3. GETTING YOUR SHIPMENT TO UPS

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

Customers without a Daily Pickup

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 CampuShip and select UPS Locations.

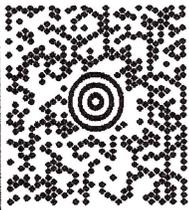
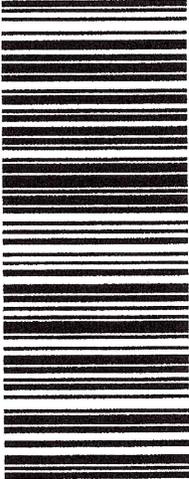
Schedule a same day or future day Pickup to have a UPS driver pickup all your CampuShip packages. Hand the package to any UPS driver in your area.

UPS Access Point™  
ADVANCE AUTO PART STORE 6538  
8410 OSWEGO RD  
LIVERPOOL, NY 13090

UPS Access Point™  
THE UPS STORE  
8417 OSWEGO RD  
BALDWINSVILLE, NY 13027

UPS Access Point™  
ADVANCE AUTO PART STORE 6324  
3731 BREWERTON RD  
SYRACUSE, NY 13212

FOLD HERE

ALLISON HERBEL 2155887035 CENTERLINE COMMUNICATIONS 59 BAYBERRY CIRCLE LIVERPOOL, NY 130902934	<b>1 LBS</b>  DWWT: 12.9,1	<b>1 OF 1</b>
<b>SHIP TO:</b> ZONING ENFORCEMENT - JOHN CODY TOWN OF ROXBURY 29 NORTH STREET <b>ROXBURY CT 06783-1405</b>		
		<b>CT 068 0-03</b>
<b>UPS GROUND</b> TRACKING #: 1Z 9Y4 503 03 2795 1669		
		
BILLING: P/P		
CS 22.0.11. WNTJNVS0 31.0A.07/2020		
		

UPS CampussShip: View/Print Label

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.
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3. GETTING YOUR SHIPMENT TO UPS

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

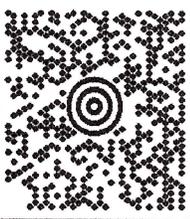
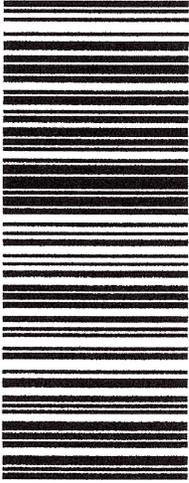
**Customers without a Daily Pickup**  
Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including Via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampussShip and select UPS Locations.  
Schedule a same day or future day Pickup to have a UPS driver pickup all your CampussShip packages.  
Hand the package to any UPS driver in your area.

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8410 OSWEGO RD  
LIVERPOOL, NY 13090

UPS Access Point™  
THE UPS STORE  
8417 OSWEGO RD  
BALDWINSVILLE, NY 13027

UPS Access Point™  
ADVANCE AUTO PART STORE 6324  
3731 BREWERTON RD  
SYRACUSE, NY 13212

FOLD HERE

ALLISON HERBEL 2155897035 CENTERLINE COMMUNICATIONS 59 BAYBERRY CIRCLE LIVERPOOL, NY 130902934	<b>1 LBS</b>  DWWT: 12,9,1	<b>1 OF 1</b>
<b>SHIP TO:</b> FIRST SELECTMAN'S OFFICE TOWN OF ROXBURY 29 NORTH STREET ROXBURY CT 06783-1405		
		<b>CT 068 0-03</b>  
<b>UPS GROUND</b> TRACKING #: 1Z 9Y4 503 03 3076 7059		
		BILLING: P/P  GS 22.0.11.    VNTNINVS0 31.04 07/2020 