



# 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)

### VIA ELECTRONIC MAIL

August 22, 2018

Jennifer Iliades  
Centerline Communications, LLC  
750 West Center Street, Suite 301  
West Bridgewater, MA 02379

RE: **EM-CING-028-180813** – New Cingular Wireless, PCS, LLC notice of intent to modify an existing telecommunications facility located at Chestnut Hill Road, Colchester, Connecticut.

Dear Ms. Iliades:

The Connecticut Siting Council (Council) is in receipt of your correspondence of August 21, 2018 submitted in response to the Council's August 15, 2018 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

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

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman  
Executive Director

MAB/MP/emr



## Robidoux, Evan

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**From:** Jennifer Iliades <jiliades@clinellc.com>  
**Sent:** Tuesday, August 21, 2018 3:02 PM  
**To:** Robidoux, Evan  
**Cc:** CSC-DL Siting Council; David Ford  
**Subject:** RE: Council Incomplete Letter for EM-CING-028-180813-ChestnutHillRd-Colchester  
**Attachments:** CT2046 LTE 2C 3C CD REV1 04-25-18.pdf; CT2046 LTE 2C 3C CD REV1 04-25-18.pdf

**Importance:** High

**Categories:** to do

Good afternoon,

Per your attached correspondence, the Council was seeking revised CDs reflecting the proper date of the Antenna Mount Structural Analysis Report to supplement our filing. Please find the requested documents attached. The CDs were revised to show the correct date of the Antenna Mount Structural Analysis Report (changed from March 30 to March 19, 2018). This issue was a typo regarding the date only - there was no change in the scope of work in the documents submitted. We respectfully request that the Council moves forward with its review of the application.

Should hard copies be required, please let me know and we shall provide them. Please do not hesitate to contact me with any additional questions or concerns.

Thank you,



**Jennifer Iliades** | Site Acquisition Consultant  
750 West Center Street, Suite 301 | West Bridgewater,  
MA 02379  
Phone: 978.944.1804 | Fax: 508.819.3017  
[jiliades@clinellc.com](mailto:jiliades@clinellc.com) | [www.centerlinecommunications.com](http://www.centerlinecommunications.com)

**From:** Robidoux, Evan  
**Sent:** Thursday, August 16, 2018 3:51 PM  
**To:** Jennifer Iliades  
**Cc:** CSC-DL Siting Council  
**Subject:** Council Incomplete Letter for EM-CING-028-180813-ChestnutHillRd-Colchester

Please see the attached correspondence.

Evan Robidoux  
Clerk Typist  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051





at&t

SITE NUMBER: CT2046

SITE NAME: COLCHESTER

PROJECT: LTE 2C 3C 2018 UPGRADE

PROJECT INFORMATION

SCOPE OF WORK: ITEMS TO BE MOUNTED ON THE EXISTING MONOPOLE:  
 \*\*\*BIRDSTIE\*\*\*  
 • NEW AT&T ANTENNAS (0546512-2 FOR ALPHA SECTOR) & (TPA-65R-LCUUUU-H8 FOR BETA AND GAMMA SECTORS).  
 • NEW AT&T RRUS: (1) RRUS-32 B2 (PCS) (TYP. OF 1 PER SECTOR, TOTAL OF 3).  
 ITEMS TO BE MOUNTED INSIDE EXISTING SHELTER:  
 • NEW AT&T RRUS: (1) 4478 RADIO MOUNTED ON NEW RACK. (TOTAL OF 2).  
 • COAX JUMPERS (TYP. OF 4 PER SECTOR TOTAL OF 12) FROM THE RRU.  
 • FIBER JUMPERS (TYP. OF 2 PER SECTOR TOTAL OF 6) TO RRU. SINGLE PAIR POWER CABLE #12 SIZE FROM SQUID TO EACH RRU.  
 • (1) RF RACK.  
 • (8) SURGE ARRESTORS (APTDC-B0PM-DB) MOUNTED IN NEW RACK.  
 • NEW (1) 3276, (1) AMU AND (1) DC12 TO REPLACE EXISTING BBU.

ITEMS TO REMAIN:  
 • (6) UMS ANTENNAS, (6) TMS, (3) RRUS, (12) COAX CABLES, (2) DC POWER CABLES, (1) FIBER CABLE & (1) SURGE ARRESTOR.

SITE ADDRESS: CHESTNUT HILL ROAD  
 COLCHESTER, CT 06415

LATITUDE: 41.568936° N 41° 34' 08.16" N  
 LONGITUDE: 72.303661° W 72° 18' 13.19" W  
 TYPE OF SITE: MONOPOLE, INDOOR EQUIPMENT

TOWER HEIGHT: 180 ± A.G.L.  
 RAD CENTER: 183 ± A.G.L.

CURRENT USE: TELECOMMUNICATIONS FACILITY  
 PROPOSED USE: TELECOMMUNICATIONS FACILITY

DRAWING INDEX

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

AMERICAN TOWER SITE #: 302496  
 AMERICAN TOWER SITE NAME: CLCHCOLCHESTER

VICINITY MAP

DIRECTIONS TO SITE:  
 DEPART ENTERPRISE DR TOWARD CAPITOL BLVD. TURN LEFT ONTO CAPITOL BLVD. TURN LEFT ONTO WEST ST. TAKE RAMP LEFT FOR I-91 N. AT EXIT 25, TAKE RAMP RIGHT FOR CT-3 NORTH TOWARD GASTONBUR. TAKE RAMP RIGHT FOR CT-2 EAST TOWARD NORWICH. AT EXIT 21, TAKE RAMP RIGHT TOWARD CHESTNUT HILL ROAD. TURN RIGHT ONTO CHESTNUT HILL RD. ARRIVE AT SITE ON THE LEFT.



GENERAL NOTES

- THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE FOR OTHER THAN THE SPECIFIED PURPOSES IS STRICTLY PROHIBITED. UNAUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
- THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY FOR ROUTING, MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SERVICES. LIABILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
- CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN.

72 HOURS



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

UNDERGROUND SERVICE ALERT



SITE NUMBER: CT2046  
 SITE NAME: COLCHESTER  
 ATC SITE NUMBER: 302496  
 CHESTNUT HILL ROAD  
 COLCHESTER, CT 06415  
 NEW LONDON COUNTY



95 RYAN DRIVE  
 RAYNHAM, MA 02767



AS BECHWOOD DRIVE  
 NORTH ANDOVER, MA 01845  
 TEL: (978) 551-5553  
 FAX: (978) 558-5886

NO.	DATE	REVISIONS	DESIGNED BY:	AT	DRAWN BY:	SB
1	04/25/18	ISSUED FOR CONSTRUCTION	SB	AT	SB	AT
A	09/25/17	ISSUED FOR REVIEW	SB	AT	SB	AT

SCALE: AS SHOWN

STATE OF CONNECTICUT  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 10000  
 State of Connecticut  
 License No. 10000

REV	REV
1	T-1

AT&T  
 TITLE SHEET  
 (LIE 2C/3C)  
 SITE NUMBER: CT2046  
 DRAWING NUMBER: T-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) LIGHTNING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TOLCordia 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 GESS'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) 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 BITS EQUIPMENT.
5. EACH BITS 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 BITS 2 AWG STRANDED COPPER FOR OUTDOOR BITS.
6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTI-OXIDANT 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 COMMUNICATIONS  
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 WITHIN THE EXISTING CONDITIONS. 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, ORDINANCES, RULES, REGULATIONS, AND APPROPRIATE STANDARDS 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 AS INDICATED ON THE DRAWINGS, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS EQUIPMENT ON THE DRAWINGS.
6. "FITTINGS LIST" SUPPLIED WITH THE BID PACKAGE (REVISED) ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR, ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND FITTING 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 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 SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36, Fu = 58) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36, Fu = 48). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP 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 SHALL BE VERIFIED BY THE SUBCONTRACTOR. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF ANY DISCREPANCY PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL BE COMPLETED WITHIN THE 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 CONSTRUCTION SHALL BE USED.  
BUILDING CODE: IBC 2012 WITH 2016 CT BUILDING CODE AMENDMENTS  
ELECTRICAL CODE: REFER TO ELECTRICAL DRAWINGS  
LIGHTNING CODE: REFER TO ELECTRICAL DRAWINGS

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-6, STRUCTURAL STANDARDS FOR STEEL  
EQUIPMENT AND ANTENNA SUPPORTING STRUCTURES: REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.  
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	REC	REQUIRED
AWG	AMERICAN WIRE GAUGE	CC	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
BBU	BATTERY BACKUP UNIT	GRC	GALVANIZED RIGID CONDUIT	TBD	TO BE DETERMINED
BTWC	BARE TINNED SOLID COPPER WIRE	MBR	MASTER GROUND BAR	TBR	TO BE REMOVED
BGR	BURIED GROUND RING	MIN	MINIMUM	TBR	TO BE REMOVED AND REPLACED
BTS	BASE TRANSCIEVER 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		



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

SITE NUMBER: CT2046  
SITE NAME: COLCHESTER  
ATC SITE NUMBER: 302496  
CHESTNUT HILL ROAD  
COLCHESTER, CT 06032  
HARTFORD COUNTY



95 RYAN DRIVE  
HARTFORD, MA 02167



45 BEECHWOOD DRIVE  
NORTH ANDOVER, MA 01854  
TEL: (978) 524-5553  
FAX: (978) 336-5586

AT&T

GENERAL NOTES  
(LTC 20/20)

DATE: 04/25/18  
ISSUED FOR CONSTRUCTION

DATE: 08/29/17  
ISSUED FOR REVIEW

NO. DATE REVISIONS

SCALE: AS SHOWN

ISSUED BY: AT

DESIGNED BY: SB

CHECKED BY: SB

DRAWING NUMBER: CT2046

REV: 1

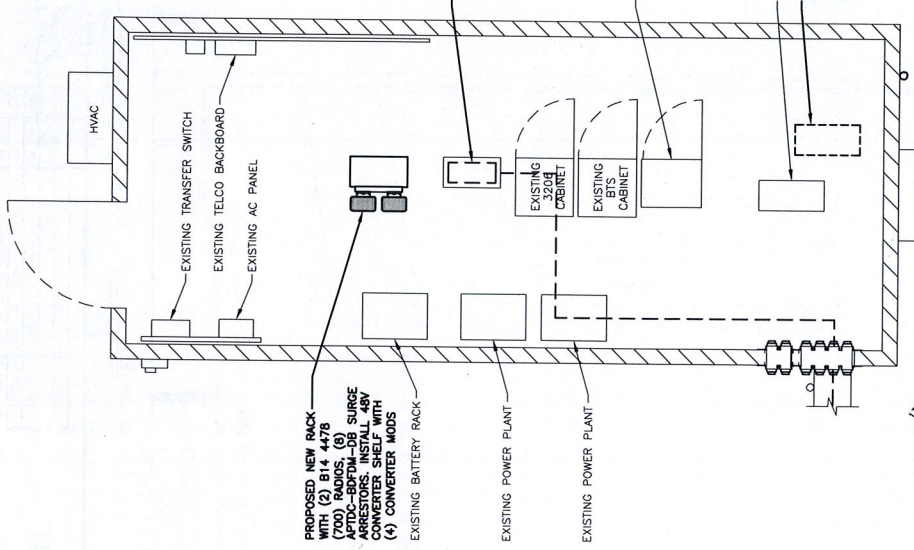


**NOTE:**  
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY HUDSON DESIGN GROUP, LLC, DATED: MARCH 19, 2018.

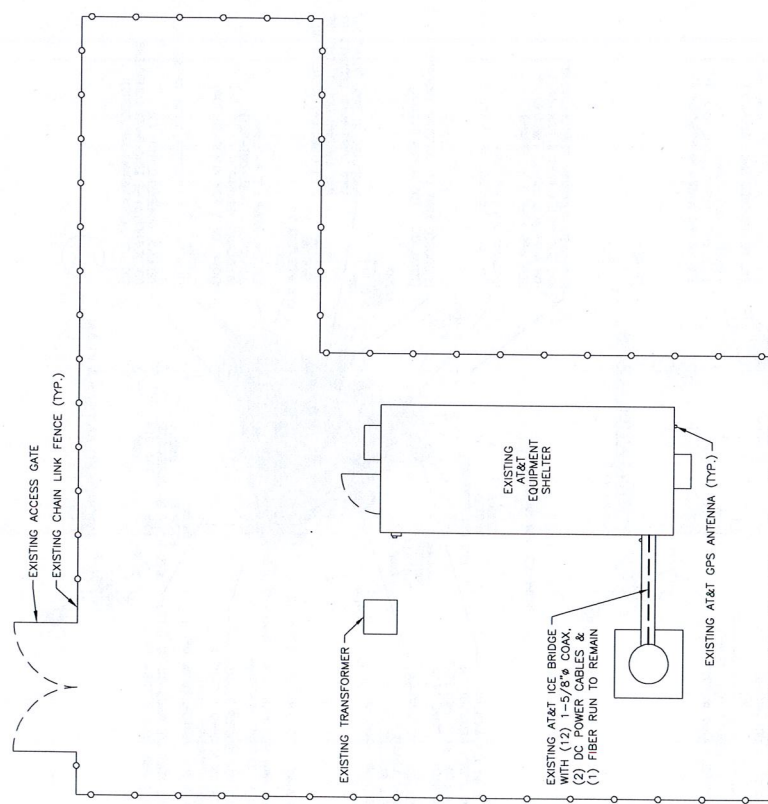
**NOTE:**  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

**NOTE:**  
ALL ANTENNAS AND LINES TO BE INSTALLED IN ACCORDANCE WITH STRUCTURAL ANALYSIS PROVIDED BY AMERICAN TOWER AND FINAL AT&T RF DATA SHEET.

**POWER PANEL NOTE:**  
1. ADD (5) 30A SP DC BREAKER FOR NEW RRU ADDS, IF NEEDED  
2. ADD (1) 25A SP FOR 5916 IN EXISTING GALAXY POWER PLANT.



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



**COMPOUND PLAN**  
22x34 SCALE: 3/16"=1'-0"  
11x17 SCALE: 3/32"=1'-0"



AT&T	
COMPOUND & EQUIPMENT PLANS (LIE 20/30)	
SITE NUMBER	CT2046
DRAWING NUMBER	A-1
REV	

DATE	BY	CHK	APP
04/25/18	AT	SB	SB
07/27/17	AT	SB	SB
DESIGNED BY: AT		DRAWN BY: SB	
SCALE: AS SHOWN			

500 ENTERPRISE DRIVE, SUITE 3A  
ROCKY HILL, CT 06867

**SITE NUMBER: CT2046**  
**SITE NAME: COLCHESTER**  
**ATC SITE NUMBER: 302496**  
SHRIMP HILL ROAD  
COLCHESTER, CT 06230  
NEW LONDON COUNTY

95 RYAN DRIVE  
RAYNHAM, MA 02767

REG: 1P18150-5453  
ISSUED: 03/19/2018  
PAGE: 17/18

45 BEECHWOOD DRIVE  
WORMLEIGH, MA 01894



**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 19, 2018.

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

**NOTE:**  
ALL ANTENNAS AND LINES TO BE INSTALLED IN ACCORDANCE WITH STRUCTURAL ANALYSIS PROVIDED BY AMERICAN TOWER AND FINAL ASSET RF DATA SHEET.

**SECTION 1: EXISTING & PROPOSED AT&T LITE ANTENNAS**  
ELEV. = 183'-0" ± (AQL)

TOP OF EXISTING TOWER  
ELEV. = 180'-0" ± (AQL)

EXISTING AT&T SURGE ARRESTOR (TOTAL OF 1)

EXISTING AT&T LITE RRH (TYP. OF 1 PER SECTOR, TOTAL OF 3)

EXISTING LITE ANTENNA (AM-X-CD-14-85-00-RET) (TYP. OF 1 PER ALPHA SECTOR)

PROPOSED AT&T LITE ANTENNA (AM-X-CD-14-85-00-RET) (TYP. OF 1 PER ALPHA SECTOR)

PROPOSED PLATFORM REINFORCEMENT KIT SITE PRO. 1 PART # PRK-1245 (OR APPROVED EQUAL) (SECURE TO NEW HSS 4"x4"x1/4" FRAME)

PROPOSED AT&T SURGE ARRESTOR (TOTAL OF 1)

EXISTING UNITS ANTENNA (TYP. OF 1 PER SECTOR, TOTAL OF 3)

PROPOSED AT&T LITE RRUS-32 B2 (PCS) (TYP. OF 1 PER SECTOR, TOTAL OF 3)

REPLACE DIPLEXERS WITH (3) COMBINERS (TO REPLACE EXISTING DIPLEXERS)

PROPOSED AT&T LITE ANTENNA (GS46512-2) (TOTAL OF 1 FOR ALPHA SECTOR)

**SECTION 2: EXISTING & PROPOSED AT&T LITE ANTENNAS**  
ELEV. = 0'-0" ± (AQL)

EXISTING AT&T SURGE ARRESTOR (TOTAL OF 1)

EXISTING AT&T LITE RRH (TYP. OF 1 PER SECTOR, TOTAL OF 3)

EXISTING LITE ANTENNA (AM-X-CD-14-85-00-RET) (TYP. OF 1 FOR ALPHA SECTOR)

PROPOSED AT&T LITE ANTENNA (AM-X-CD-14-85-00-RET) (TYP. OF 1 FOR ALPHA SECTOR)

PROPOSED PLATFORM REINFORCEMENT KIT SITE PRO. 1 PART # PRK-1245 (OR APPROVED EQUAL) (SECURE TO NEW HSS 4"x4"x1/4" FRAME)

EXISTING UNITS ANTENNA (TYP. OF 1 PER SECTOR, TOTAL OF 3)

PROPOSED AT&T LITE ANTENNA (GS46512-2) (TOTAL OF 1 FOR ALPHA SECTOR)

PROPOSED 2" STD. (2.38" O.D.) STEEL PIPE MUST BE SECURED TO THE EXISTING MOUNT (TYP. OF 3 PER SECTOR, TOTAL OF 9)

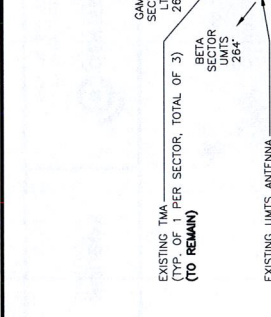
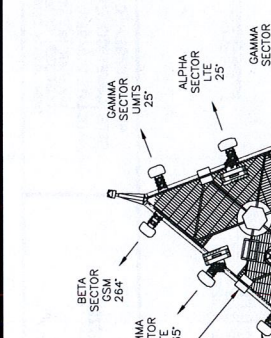
EXISTING MONOPOLE

EXISTING AT&T GPS ANTENNA (TYP.)

EXISTING AT&T EQUIPMENT SHELTER

EXISTING CHAIN LINK FENCE (TYP.)

GROUND LEVEL  
ELEV. = 0'-0" ± (AQL)



**EXISTING ANTENNA PLAN**  
SCALE: N.T.S.

**PROPOSED ANTENNA PLAN**  
SCALE: N.T.S.

**EXISTING GSM ANTENNA**  
(TYP. OF 1 PER SECTOR, TOTAL OF 3)  
(TO BE REMOVED AND REPLACED)

**EXISTING LITE ANTENNA**  
(TYP. OF 1 PER SECTOR, TOTAL OF 3)  
(TO BE RELOCATED @ POSITION 4)

**EXISTING UNITS ANTENNA**  
(TYP. OF 1 PER SECTOR, TOTAL OF 3)

**PROPOSED AT&T LITE ANTENNA (GS46512-2)**  
(TOTAL OF 1 FOR ALPHA SECTOR)

**ALPHA SECTOR**  
700 B14  
25°

**ALPHA SECTOR**  
PCS/700 BC  
25°

**EXISTING AT&T LITE ANTENNA (AM-X-CD-14-85-00-RET)**  
RELOCATED @ POSITION 4  
(TOTAL OF 1 FOR ALPHA SECTOR)

**EXISTING RRH**  
(TYP. OF 1 PER SECTOR, TOTAL OF 3)

**REPLACE DIPLEXERS WITH (3) COMBINERS**  
(TO REPLACE EXISTING DIPLEXERS)

**PROPOSED NEW HANDRAIL**

**EXISTING AT&T LITE ANTENNA (SRH-1D6566)** RELOCATED @ POSITIO 4 (TYP. OF 1 PER BETA & GAMMA SECTOR, TOTAL OF 2)

**PROPOSED AT&T LITE ANTENNA (TPA-65R-LOJLJLJL)**  
(TYP. OF 1 PER BETA & GAMMA SECTOR, TOTAL OF 2)

**EXISTING AT&T SURGE ARRESTOR** (TOTAL OF 1)

**PROPOSED NEW HSS 4"x4"x1/4" FRAME**  
SECURED TO EXISTING PLATFORM

**PROPOSED NEW SECTOR FRAME STABILIZER KIT SITEPRO 1 PART # SPS-V (OR APPROVED EQUAL)**  
(TYP. OF 1 PER SECTOR, TOTAL OF 3)

**PROPOSED AT&T LITE RRUS-32 B2 (PCS)**  
(TYP. OF 1 PER SECTOR, TOTAL OF 3)

**BETA SECTOR**  
LITE 264°

**BETA SECTOR**  
PCS/700 BC  
265°

**GAMMA SECTOR**  
700 B14  
265°

**GAMMA SECTOR**  
PCS/700 BC  
265°

**BETA SECTOR**  
LITE 135°

**BETA SECTOR**  
PCS/700 BC  
135°

**ALPHA SECTOR**  
LITE 142°

**ALPHA SECTOR**  
PCS/700 BC  
142°

**PROPOSED AT&T SURGE ARRESTOR** (TOTAL OF 1)

**PROPOSED NEW HSS 4"x4"x1/4" FRAME**  
SECURED TO EXISTING PLATFORM

**PROPOSED NEW SECTOR FRAME STABILIZER KIT SITEPRO 1 PART # SPS-V (OR APPROVED EQUAL)**  
(TYP. OF 1 PER SECTOR, TOTAL OF 3)

**PROPOSED AT&T LITE RRUS-32 B2 (PCS)**  
(TYP. OF 1 PER SECTOR, TOTAL OF 3)

**BETA SECTOR**  
LITE 264°

**BETA SECTOR**  
PCS/700 BC  
265°

**GAMMA SECTOR**  
700 B14  
265°

**GAMMA SECTOR**  
PCS/700 BC  
265°

**BETA SECTOR**  
LITE 135°

**BETA SECTOR**  
PCS/700 BC  
135°

**ALPHA SECTOR**  
LITE 142°

**ALPHA SECTOR**  
PCS/700 BC  
142°

**SECTION 3: EXISTING & PROPOSED AT&T LITE ANTENNAS**  
ELEV. = 183'-0" ± (AQL)

TOP OF EXISTING TOWER  
ELEV. = 180'-0" ± (AQL)

EXISTING AT&T SURGE ARRESTOR (TOTAL OF 1)

EXISTING AT&T LITE RRH (TYP. OF 1 PER SECTOR, TOTAL OF 3)

EXISTING LITE ANTENNA (AM-X-CD-14-85-00-RET) (TYP. OF 1 FOR ALPHA SECTOR)

PROPOSED AT&T LITE ANTENNA (AM-X-CD-14-85-00-RET) (TYP. OF 1 FOR ALPHA SECTOR)

PROPOSED PLATFORM REINFORCEMENT KIT SITE PRO. 1 PART # PRK-1245 (OR APPROVED EQUAL) (SECURE TO NEW HSS 4"x4"x1/4" FRAME)

EXISTING UNITS ANTENNA (TYP. OF 1 PER SECTOR, TOTAL OF 3)

PROPOSED AT&T LITE ANTENNA (GS46512-2) (TOTAL OF 1 FOR ALPHA SECTOR)

PROPOSED 2" STD. (2.38" O.D.) STEEL PIPE MUST BE SECURED TO THE EXISTING MOUNT (TYP. OF 3 PER SECTOR, TOTAL OF 9)

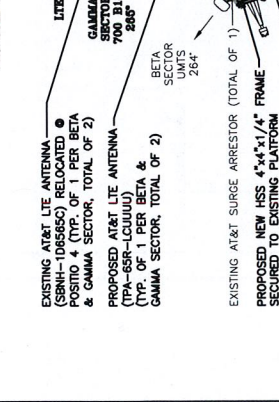
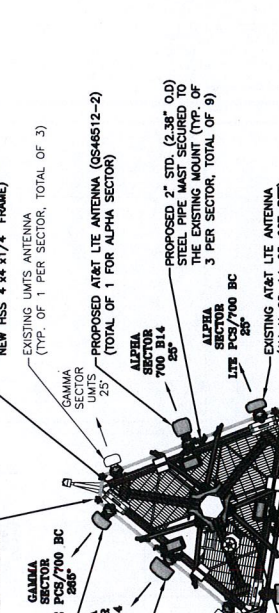
EXISTING MONOPOLE

EXISTING AT&T GPS ANTENNA (TYP.)

EXISTING AT&T EQUIPMENT SHELTER

EXISTING CHAIN LINK FENCE (TYP.)

GROUND LEVEL  
ELEV. = 0'-0" ± (AQL)



**EXISTING ANTENNA PLAN**  
SCALE: N.T.S.

**PROPOSED ANTENNA PLAN**  
SCALE: N.T.S.

**SECTION 3: EXISTING & PROPOSED AT&T LITE ANTENNAS**  
ELEV. = 183'-0" ± (AQL)

TOP OF EXISTING TOWER  
ELEV. = 180'-0" ± (AQL)

EXISTING AT&T SURGE ARRESTOR (TOTAL OF 1)

EXISTING AT&T LITE RRH (TYP. OF 1 PER SECTOR, TOTAL OF 3)

EXISTING LITE ANTENNA (AM-X-CD-14-85-00-RET) (TYP. OF 1 FOR ALPHA SECTOR)

PROPOSED AT&T LITE ANTENNA (AM-X-CD-14-85-00-RET) (TYP. OF 1 FOR ALPHA SECTOR)

PROPOSED PLATFORM REINFORCEMENT KIT SITE PRO. 1 PART # PRK-1245 (OR APPROVED EQUAL) (SECURE TO NEW HSS 4"x4"x1/4" FRAME)

EXISTING UNITS ANTENNA (TYP. OF 1 PER SECTOR, TOTAL OF 3)

PROPOSED AT&T LITE ANTENNA (GS46512-2) (TOTAL OF 1 FOR ALPHA SECTOR)

PROPOSED 2" STD. (2.38" O.D.) STEEL PIPE MUST BE SECURED TO THE EXISTING MOUNT (TYP. OF 3 PER SECTOR, TOTAL OF 9)

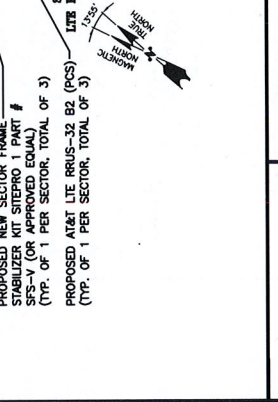
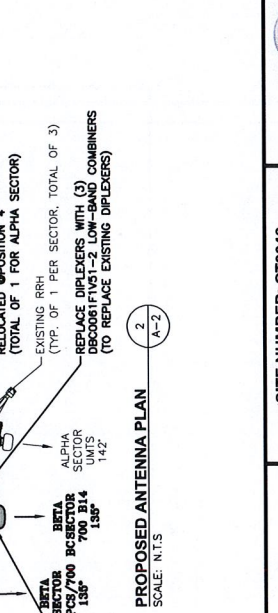
EXISTING MONOPOLE

EXISTING AT&T GPS ANTENNA (TYP.)

EXISTING AT&T EQUIPMENT SHELTER

EXISTING CHAIN LINK FENCE (TYP.)

GROUND LEVEL  
ELEV. = 0'-0" ± (AQL)



**EXISTING ANTENNA PLAN**  
SCALE: N.T.S.

**PROPOSED ANTENNA PLAN**  
SCALE: N.T.S.

**SECTION 3: EXISTING & PROPOSED AT&T LITE ANTENNAS**  
ELEV. = 183'-0" ± (AQL)

TOP OF EXISTING TOWER  
ELEV. = 180'-0" ± (AQL)

EXISTING AT&T SURGE ARRESTOR (TOTAL OF 1)

EXISTING AT&T LITE RRH (TYP. OF 1 PER SECTOR, TOTAL OF 3)

EXISTING LITE ANTENNA (AM-X-CD-14-85-00-RET) (TYP. OF 1 FOR ALPHA SECTOR)

PROPOSED AT&T LITE ANTENNA (AM-X-CD-14-85-00-RET) (TYP. OF 1 FOR ALPHA SECTOR)

PROPOSED PLATFORM REINFORCEMENT KIT SITE PRO. 1 PART # PRK-1245 (OR APPROVED EQUAL) (SECURE TO NEW HSS 4"x4"x1/4" FRAME)

EXISTING UNITS ANTENNA (TYP. OF 1 PER SECTOR, TOTAL OF 3)

PROPOSED AT&T LITE ANTENNA (GS46512-2) (TOTAL OF 1 FOR ALPHA SECTOR)

PROPOSED 2" STD. (2.38" O.D.) STEEL PIPE MUST BE SECURED TO THE EXISTING MOUNT (TYP. OF 3 PER SECTOR, TOTAL OF 9)

EXISTING MONOPOLE

EXISTING AT&T GPS ANTENNA (TYP.)

EXISTING AT&T EQUIPMENT SHELTER

EXISTING CHAIN LINK FENCE (TYP.)

GROUND LEVEL  
ELEV. = 0'-0" ± (AQL)

NO.	DATE	ISSUED FOR REVIEW	REASONS	ISSUED BY	DATE	SCALE
1	04/26/18	ISSUED FOR CONSTRUCTION		SB	AT	A-2
1	07/25/17	ISSUED FOR REVIEW		SB	AT	A-2

**at&t**  
500 ENTERPRISE DRIVE, SUITE 3A  
ROCKY HILL, CT 06867

**CENTERLINE COMMUNICATIONS**  
95 RYAN DRIVE  
ROANOK, VA 02767

**HUDSON Design Group LLC**  
48 BECHWOOD DRIVE  
NORTH ANDOVER, MA 01845  
TEL: (978) 547-5433  
FAX: (978) 338-3584

**at&t**  
SITE NUMBER: CT2046  
SITE NAME: COLCHESTER  
ATC SITE NUMBER: 302496  
CHESTNUT HILL ROAD  
COLCHESTER, CT 06415  
NEW LONDON COUNTY

**AT&T**  
ANTENNA PLANS & ELEVATION  
(LITE 2C/3C)  
SITE NUMBER: CT2046  
DRAWING NUMBER: A-2



**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 19, 2016.

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

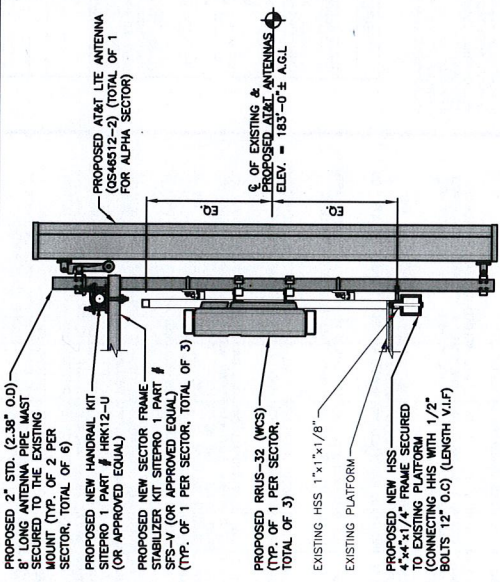
**NOTE:**  
ALL ANTENNAS AND LINES TO BE INSTALLED IN ACCORDANCE WITH STRUCTURAL ANALYSIS PROVIDED BY AMERICAN TOWER AND FINAL R.F. RF DATA SHEET.

**DC JUMPER NOTE:**  
DC JUMPERS (2) FROM EACH RRU (TOTAL OF 10).

**\*\*FIBER JUMPER NOTE:\*\***  
FIBER JUMPERS (1) FROM THE SOUND TO EACH RRU (TOTAL OF 5).

SECTOR	EXISTING/PROPOSED	BAND	ANTENNA	SIZE (INCHES) (L x W x D)	ANTENNA HEIGHT & HEIGHT	AZIMUTH	TILT/DIP/ROT	RRU	SIZE (INCHES) (L x W x D)	FEEDER	RAYCAP
A1	EXISTING	850 MHZ/1900MHZ	7770	57X11X5	±183'	25°	(2) LCP17201	---	---	(2) 1-5/8 COAX	---
A2	---	---	---	---	---	---	---	---	---	---	---
A3	PROPOSED	700 MHZ/1900MHZ	0546512-2	52X12X10.8	±183'	25°	---	(E) B14 4478 (P) RRUS-32 B2 (PCS)	15X13.2X7.4 27.2X12.1X7	(2) 1-5/8 COAX	(E) (1) RAYCAP (P) (1) RAYCAP
A4	PROPOSED	700 MHZ	AM-X-CD-14-05-00T-RET	48X11.8X5.9	±183'	25°	(2) DBC0061FV151-2	(E) RRUS-11 (700)	19.7X17X7.2	---	---
B1	EXISTING	850 MHZ/1900MHZ	7770	57X11X5	±183'	142°	(2) LCP17201	---	---	(2) 1-5/8 COAX	---
B2	---	---	---	---	---	---	---	---	---	---	---
B3	PROPOSED	700 MHZ/1900MHZ	TPA-65R-LCUUUU-HB	96X14.4X8.6	±183'	135°	---	(E) B14 4478 (P) RRUS-32 B2 (PCS)	15X13.2X7.4 27.2X12.1X7	(2) 1-5/8 COAX	(E) (1) RAYCAP (P) (1) RAYCAP
B4	PROPOSED	700 MHZ	SRNH-1D6565C	96.4X11.9X7.1	±183'	135°	(2) DBC0061FV151-2	(E) RRUS-11 (700)	19.7X17X7.2	---	---
C1	EXISTING	850 MHZ/1900MHZ	7770	57X11X5	±183'	264°	(2) LCP17201	---	---	(2) 1-5/8 COAX	---
C2	---	---	---	---	---	---	---	---	---	---	---
C3	PROPOSED	700 MHZ/1900MHZ	TPA-65R-LCUUUU-HB	96X14.4X8.6	±183'	265°	---	(E) B14 4478 (P) RRUS-32 B2 (PCS)	15X13.2X7.4 27.2X12.1X7	(2) 1-5/8 COAX	(E) (1) RAYCAP (P) (1) RAYCAP
C4	PROPOSED	700 MHZ	SRNH-1D6565C	96.4X11.9X7.1	±183'	265°	(2) DBC0061FV151-2	(E) RRUS-11 (700)	19.7X17X7.2	---	---

**FINAL ANTENNA CONFIGURATION TABLE**



**RRH CHART**

QUANTITY	MODEL	L	W	D
3 (E)	RRUS-11	19.7"	17.0"	7.2"
3 (P)	RRUS-32	27.2"	12.1"	7.0"
2 (P)	RRU-4478 B14	15.0"	13.2"	7.4"

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

**NOTE:**  
SEE RFDS FOR RRH FREQUENCY AND MODEL NUMBER  
PROPOSED RRU REFER TO THE FINAL RFDS AND CHART FOR QUANTITY, MODEL AND DIMENSIONS

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

**PROPOSED ANTENNA & RRH MOUNTING DETAIL**  
SCALE: N.T.S.

**PROPOSED RRUS MOUNTING DETAIL ON NEW FIF RACK**  
SCALE: N.T.S.

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

**HUDSON**  
Design Group LLC  
48 BECHWOOD DRIVE  
NORTH ANDOVER, MA 01845  
TEL: 978.537.5333  
FAX: 978.536.5886

**at&t**  
300 ENTERPRISE DRIVE SUITE 3A  
ROCKY HILL, CT 06867

**CENTERLINE**  
COMMUNICATIONS  
95 RYAN DRIVE  
RAYNHAM, MA 02767

SITE NUMBER: CT2046		AT&T	
SITE NAME: COLCHESTER		DETAILS	
ATC SITE NUMBER: 302496		(LIE 2C/3C)	
NO. DATE	ISSUED FOR	BY	REVISION
1	04/25/16	ISSUED FOR CONSTRUCTION	SP
2	04/25/16	ISSUED FOR REVIEW	SP
3	04/25/16	ISSUED FOR REVIEW	SP
4	04/25/16	ISSUED FOR REVIEW	SP
5	04/25/16	ISSUED FOR REVIEW	SP
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99	04/25/16	ISSUED FOR REVIEW	SP
100	04/25/16	ISSUED FOR REVIEW	SP



**STRUCTURAL NOTES:**

- DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS. INTERNATIONAL BUILDING CODE, EIA/TA-222-G 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 SPECIFICATIONS 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 UNON.
- 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, UNLESS OTHERWISE NOTED.
- FIELD WELDS, DRILL HOLES, SNAG CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED USING AN EPOXY REPAIR PAINT COMPLYING WITH THE 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 FOR WELDING" AND ALL WELDING SHALL BE WITNESSED BY THE CONSTRUCTION MANAGER. ALL WELDING SHALL BE WITNESSED BY THE CONSTRUCTION MANAGER. WELLS, WHERE FILLET WELLS, 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 PORTIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REPAIR 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 5/8"x1/2"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 SAME AS SPECIFIED IN HW-70 AND OR HW-200 SYSTEMS (AS SPECIFIED IN DWG) ON 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 WATERIGHT.
- 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 INSPECTORS SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTIONS 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 REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL BE NOTIFIED. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL BE SUBMITTED.

**SPECIAL INSPECTION CHECKLIST**

BEFORE CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
N/A	ENGINEER OF RECORD APPROVED SHOP DRAWINGS
N/A	MATERIAL SPECIFICATIONS REPORT?
N/A	FABRICATOR NDE INSPECTION
N/A	PACKING SLIPS?
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
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT VERIFICATION
N/A	WELDED ANCHOR VERIFICATION
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'S REDLINE
N/A	POST INSTALLED ANCHOR
ADDITIONAL TESTING AND INSPECTIONS:	
	PHOTOGRAPHS

**NOTES:**

- REQUIRED FOR ANY NEW SHOP FABRICATED FRP OR STEEL PROVIDED BY MANUFACTURER. REQUIRED IF HIGH STRENGTH PROVIDED BY GENERAL CONTRACTOR. PROOF OF MATERIALS.
- HIGH WIND ZONE INSPECTION CATB 120MPH OR CAT C.D
- 110MPH INSPECT FRAMING OF WALLS, ANCHORING.
- ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 308.4 AND CC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A BEEN BASED ON ACI 308.4 TEMPERATURE CATEGORY B FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 308.4.11 SHALL BE INSPECTED PER ACI 318-11 10.8.2.4. WALLERS 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.
- SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED PRIOR TO STEEL FABRICATION.
- VERIFICATION OF EXISTING ROOF CONSTRUCTION IS REQUIRED. THE CONTRACTOR SHALL OBTAIN RECORD DRAWINGS FROM PLATFORM ENGINEER OF RECORD IS TO APPROVE EXISTING CONDITIONS IN ORDER TO MOVE FORWARD.
- EXISTING BRICK MASONRY SUPPORT COLUMNS TO BE CENTRALLY LOCATED OVER THE EXISTING BUILDING COLUMNS.
- EXISTING BRICK MASONRY COLUMNS/BEARING TO BE REINFORCED WITH ALL PREPARED PLATFORM SUPPORT POINTS. ENGINEER OF RECORD TO REVIEW AND APPROVE.



500 ENTERPRISE DRIVE, SUITE 3A  
ROCKY HILL, CT 06867

SITE NUMBER: CT2046  
SITE NAME: COLCHESTER  
ATC SITE NUMBER: 302496  
CHESTNUT HILL ROAD  
COLCHESTER, CT 06415  
NEW LONDON COUNTY



95 RYAN DRIVE  
BAYTOWN, MA 02767



RE: 17813015333  
NORTH ANDOVER, MA 01850  
DATE: 1/28/13



NO.	DATE	ISSUED FOR REVIEW	ISSUED FOR CONSTRUCTION	BY	FOR	REASON	DESIGNED BY:	DRAWN BY:	CHECKED BY:	SCALE:
1	01/28/13			SB	AT					
2	01/29/13			SB	AT					
3				SB	AT					
4				SB	AT					
5				SB	AT					
6				SB	AT					
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AT&T  
STRUCTURAL NOTES  
(I.E. 2C/2C)  
SITE NUMBER: CT2046  
DRAWING NUMBER: SM-1

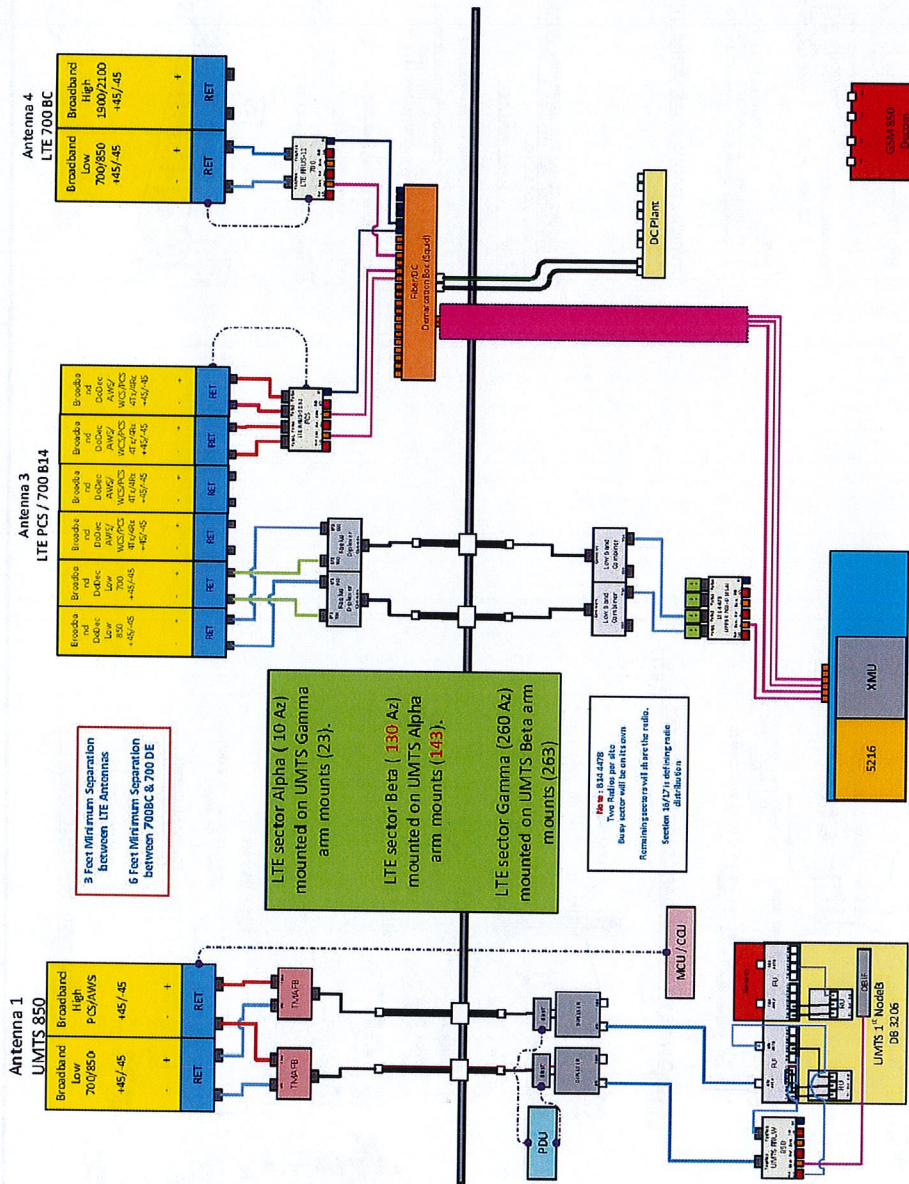












RF PLUMBING DIAGRAM (RF-1)  
SCALE: N.T.S.

NO.	DATE	REVISIONS	DESIGNED BY:	AT	DRAWN BY:	SB
1	09/25/18	ISSUED FOR CONSTRUCTION	SF	AT	SB	SB
A	09/29/17	ISSUED FOR REVIEW	SB	AT	SB	SB

SCALE: AS SHOWN

**HUDSON**  
Design Group LLC  
48 BECHWOOD DRIVE  
NORTH ANDOVER, MA 01854  
TEL: (978) 537-5533  
FAX: (978) 336-5586

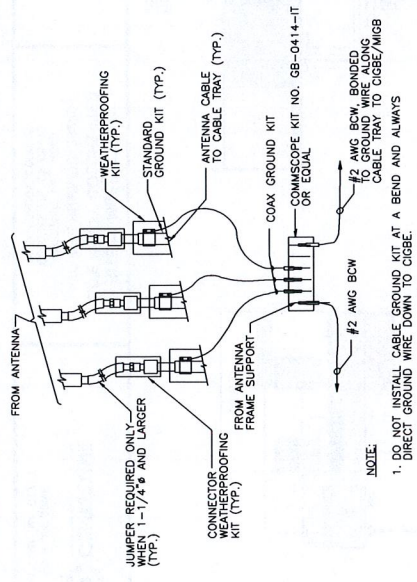
**CENTERLINE**  
COMMUNICATIONS  
95 PLYMOUTH DRIVE  
RAYNHAM, MA 02767

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

**AT&T**  
RF PLUMBING DIAGRAM  
(LTE 2C/3C)  
SITE NUMBER: CT2046  
DRAWING NUMBER: RF-1

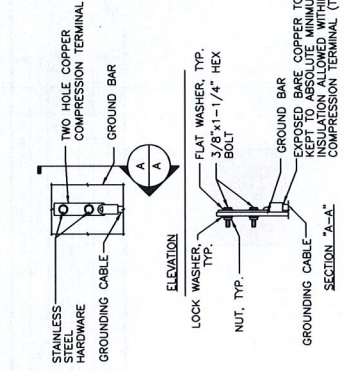
**AT&T**  
RF PLUMBING DIAGRAM  
(LTE 2C/3C)  
SITE NUMBER: CT2046  
DRAWING NUMBER: RF-1





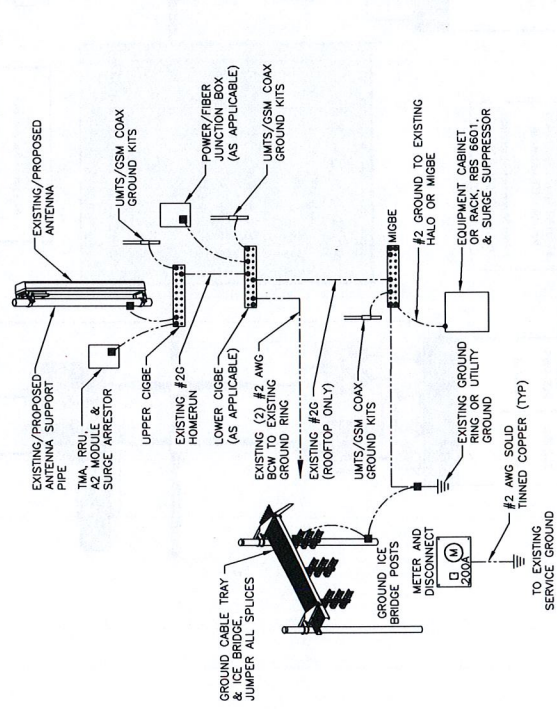
NOTE:  
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE.

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



NOTE:  
1. "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.  
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL CONNECTIONS.  
3. CORNED DOWNLOWS FROM UPPER EGB, LOWER EGB, AND MGB

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



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

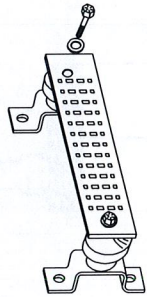
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

**SECTION "P" - SURGE PRODUCERS**

- CABLE ENTRY PORTS (HATCH PLATES) (#2)
- GENERATOR FRAMEWORK (IF AVAILABLE) (#2)
- TELECO GROUND BAR
- COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
- POWER SUPPLY RETURN BAR (#2)
- POWER SUPPLY RETURN BAR (#2)
- RECIFIER FRAMES

**SECTION "A" - SURGE ABSORBERS**

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



**GROUND BAR - DETAIL** (4)  
SCALE: N.T.S.



 46 BECHWOOD DRIVE NORTH ANDOVER, MA 01854 TEL: (978) 357-5333 FAX: (978) 356-5586		 95 RYAN DRIVE RAYNHAM, MA 02767		 500 ENTERPRISE DRIVE, SUITE 3A ROCKY HILL, CT 06867	
<b>HUDSON Design Group LLC</b> 46 BECHWOOD DRIVE NORTH ANDOVER, MA 01854 TEL: (978) 357-5333 FAX: (978) 356-5586		<b>CENTERLINE COMMUNICATIONS</b> 95 RYAN DRIVE RAYNHAM, MA 02767		<b>at&amp;t</b> 500 ENTERPRISE DRIVE, SUITE 3A ROCKY HILL, CT 06867	
<b>SITE NUMBER: CT2046</b> <b>SITE NAME: COLCHESTER</b> <b>ATC SITE NUMBER: 302496</b> CHESTNUT HILL ROAD COLCHESTER, CT 06415 NEW LONDON COUNTY		<b>SITE NUMBER: CT2046</b> <b>ATC SITE NUMBER: 302496</b> CHESTNUT HILL ROAD COLCHESTER, CT 06415 NEW LONDON COUNTY		<b>AT&amp;T</b> <b>GROUNDING DETAILS</b> (USE 2C/AC) DRAWING NUMBER: G-1	
NO. DATE ISSUED FOR CONSTRUCTION 1 10/25/16		NO. DATE ISSUED FOR REVIEW 1 09/29/17		DESIGNED BY: AT DRAWN BY: SB	
REVISIONS		REVISIONS		SITE NUMBER: CT2046	
SCALE: AS SHOWN		SCALE: N.T.S.		DRAWING NUMBER: G-1	