



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

March 19, 2019

Aaron Meyers
Centerline Communications, LLC
750 W. Center Street, Floor 3
West Bridgewater, MA 02379

RE: **EM-CING-084-190301** – New Cingular Wireless PCS, LLC (AT&T) notice of intent to modify an existing telecommunications facility located at 528 Wheelers Farm Road, Milford, Connecticut.

Dear Mr. Meyers:

The Connecticut Siting Council (Council) received a notice of intent to modify the above-referenced facility on March 1, 2019. On March 14, 2019, the Council issued a letter (enclosed) stating that the request for exempt modification was incomplete because the Construction Drawings (CD) referenced the wrong dates of the Structural Analysis and a Mount Analysis that was not provided with the request. The Council recommended that Centerline Communications provide the mount analysis that references the 2018 Connecticut State Building Code (CSBC) and an updated CD that references the correct date of the structural analysis and the mount assessment referenced above, on or before April 15, 2019.

On March 18, 2019, the Council received a revised CD dated February 25, 2019 which referenced the 2018 CSBC and a Mount Assessment Letter (MA) dated April 17, 2018 and prepared by Hudson Design Group. The MA references the 2016 CSBC; however, the 2018 CSBC became effective on October 1, 2018 and should be applied to this project.

Also, the MA does not indicate the percentage structural rating or stress capacity of the mount after the proposed equipment loading.

Therefore, the exempt modification request remains incomplete at this time. The Council recommends that Centerline Communications provide a MA that indicates the percentage structural rating of the mount and references the current 2018 CSBC, and a CD that references the corrected MA, on or before April 19, 2019. If additional time is needed to gather the requested information, please submit a written request for an extension of time prior to April 19, 2019.

This notice of incompleteness shall have the effect of tolling the Federal Communications Commission (FCC) 60-day timeframe in accordance with Paragraph 217 of the FCC Wireless Infrastructure Report and Order issued on October 21, 2014 (FCC 14-153).

Thank you for your attention to this matter. Should you have any questions, please feel free to contact me at 860-827-2951.

Sincerely,

Melanie Bachman
Executive Director

MAB/IN/emr

Enclosure: Incomplete Letter dated March 14, 2019.

c: The Honorable Benjamin G. Blake, Mayor, City of Milford
David Sulkis, City Planner, City of Milford

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March 14, 2019

Aaron Meyers
Centerline Communications, LLC
750 W. Center Street, Floor 3
West Bridgewater, MA 02379

RE: **EM-CING-084-190301** – New Cingular Wireless PCS, LLC (AT&T) notice of intent to modify an existing telecommunications facility located at 528 Wheelers Farm Road, Milford, Connecticut.

Dear Mr. Meyers:

The Connecticut Siting Council (Council) received a notice of intent to modify the above-referenced facility on March 1, 2019.

According to Section 16-50j-71 of the Regulations of Connecticut State Agencies, "...any modification, as defined in Section 16-50j-2a of the Regulations of Connecticut State Agencies, to an existing tower site, except as specified in Sections 16-50j-72 and 16-50j-88 of the Regulations of Connecticut State Agencies, may have a substantial adverse environmental effect."

Staff has reviewed this exempt modification request for completeness and has identified a deficiency in the Construction Drawings (CD) prepared by Hudson Design Group and last revised January 15, 2019. Structural notes on sheets A-1 and A-2 of the CD reference a structural analysis and a mount assessment dated January 15, 2019 and April 17, 2018, respectively. This is inconsistent with the Structural Analysis Report provided which is dated January 29, 2019, and no mount assessment was provided with the request.

Therefore, the exempt modification request is incomplete at this time. The Council recommends that Centerline Communications provide the mount analysis that references the 2018 Connecticut State Building Code and an updated CD that references the correct date of the structural analysis and the mount assessment referenced above, on or before April 15, 2019. If additional time is needed to gather the requested information, please submit a written request for an extension of time prior to April 15, 2019.

This notice of incompleteness shall have the effect of tolling the Federal Communications Commission (FCC) 60-day timeframe in accordance with Paragraph 217 of the FCC Wireless Infrastructure Report and Order issued on October 21, 2014 (FCC 14-153).

Thank you for your attention to this matter. Should you have any questions, please feel free to contact me at 860-827-2951.

Sincerely,

Melanie Bachman
Executive Director

MAB/FOC/CW/in

c: The Honorable Benjamin G. Blake, Mayor, City of Milford
David Sulkis, City Planner, City of Milford

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Robidoux, Evan

From: David Ford <dford@clinellc.com>
Sent: Monday, March 18, 2019 1:24 PM
To: Robidoux, Evan
Cc: CSC-DL Siting Council; Aaron Meyers; David Ford
Subject: RE: Council Incomplete Letter for EM-CING-084-190301-WheelersFarmRd-Milford // CT2083
Attachments: em-cing-084-190301_incompleteltr_WheelersFarmRd.pdf; CT2083_10035336_LTE_3C_4C_CD_REV1_02.25.19.pdf; CT2083 Mount Assessment Letter 04172018.pdf

Evan,

In response to the CSC memo dated March 14, 2019, attached please find the revised drawings and mount letter.

Please advise if you'd like hard copies submitted or if the council requires any further information.

Thank you

From: Robidoux, Evan <Evan.Robidoux@ct.gov>
Sent: Monday, March 18, 2019 8:27 AM
To: Aaron Meyers <ameyers@clinellc.com>
Cc: CSC-DL Siting Council <Siting.Council@ct.gov>
Subject: Council Incomplete Letter for EM-CING-084-190301-WheelersFarmRd-Milford

Please see the attached correspondence.

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



April 17, 2018



Centerline Communications, LLC
97 Ryan Drive Suite 1
Raynham, MA 02767

RE: Site Number: CT2083 (LTE 3C/4C)
 FA Number: 10035336
 PACE Number: MRCTB022765
 PTN Number: 2051A0ACJZ
 Site Name: Milford Wheelers Farm
 Site Address: 528 Wheelers Farm Rd.
 Milford, CT 06460

To Whom It May Concern:

Hudson Design Group LLC (HDG) has been authorized by Centerline to perform a structural assessment on the existing antenna mount to determine its capability of supporting the following additional equipment loading:

- **(3) DBC0061F1V51-2 Combiners (1 per sector).**

Based on our assessment, we have determined that the existing antenna mount **IS CAPABLE** of supporting the proposed installation. See the latest HDG construction drawings for proposed equipment and locations.

This analysis was conducted in accordance with the International Building Code 2012 with 2005 Connecticut Supplement with 2016 Amendments, and the EIA/TIA-222-G, Structural Standards for Steel Antenna Towers and Antenna Supporting Structures.

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. Contractor is to perform a pre-inspection to confirm.
3. All antennas, coax cables and waveguide cables are assumed to be properly installed and supported as per the manufacturer's requirements.
4. All the components supporting the AT&T antennas mounts are assumed to be designed to all applicable codes and designed for identical to or larger than the currently proposed loads.
5. The existing mounts have been adequately secured to the tower structure per the mount manufacturer's specifications.
6. All components pertaining to AT&T's mounts must be tightened and re-plumbed prior to installation of new appurtenances.

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

Respectfully Submitted,
Hudson Design Group LLC

Michael Cabral
Structural Dept. Head



Daniel P. Hamm, PE
Principal

PROJECT INFORMATION

SCOPE OF WORK: ITEMS TO BE MOUNTED ON THE MONOPOLE:
 • NEW LOW BAND COMBINERS (DBC0061F1V51-2) (TYP. OF 1 PER SECTOR, TOTAL OF 3).

ITEMS TO BE MOUNTED @ EXISTING EQUIPMENT SHELTER:
 • SWAP DUS WITH 5216 & ADD 2ND XMU.
 • NEW LOW BAND COMBINERS (DBC0061F1V51-2) (TOTAL OF 3) (TO REPLACE EXISTING DIPLEXERS FOR LTE ANTENNA @ POS. 2).
 • NEW AT&T RRUS-E2 (700) (TOTAL OF 3) TO BE INSTALLED ON EXISTING RRU RACK.
 • NEW AT&T RRUS-12 (850) (TOTAL OF 3) TO BE INSTALLED ON EXISTING RRU RACK.
 • NEW SURGE ARRESTORS (ABT-DFDM-ADBH) (TOTAL OF 12) TO BE INSTALLED WITH NEW RRH'S.

SITE ADDRESS: 528 WHEELERS FARM RD.
 MILFORD, CT 06460

LATITUDE: 41.24841° N 41° 14' 54.27" N
 LONGITUDE: 73.07908° W 73° 04' 44.69" W

TYPE OF SITE: MONOPOLE, INDOOR EQUIPMENT

MONOPOLE HEIGHT: 120'± A.G.L
 RAD CENTER: 98'± A.G.L

CURRENT USE: TELECOMMUNICATIONS FACILITY
 PROPOSED USE: TELECOMMUNICATIONS FACILITY



SITE NUMBER: CT2083

SITE NAME: MILFORD WHEELERS FARM

FA CODE: 10035336

PACE ID: MRCTB022765, MRCTB022833

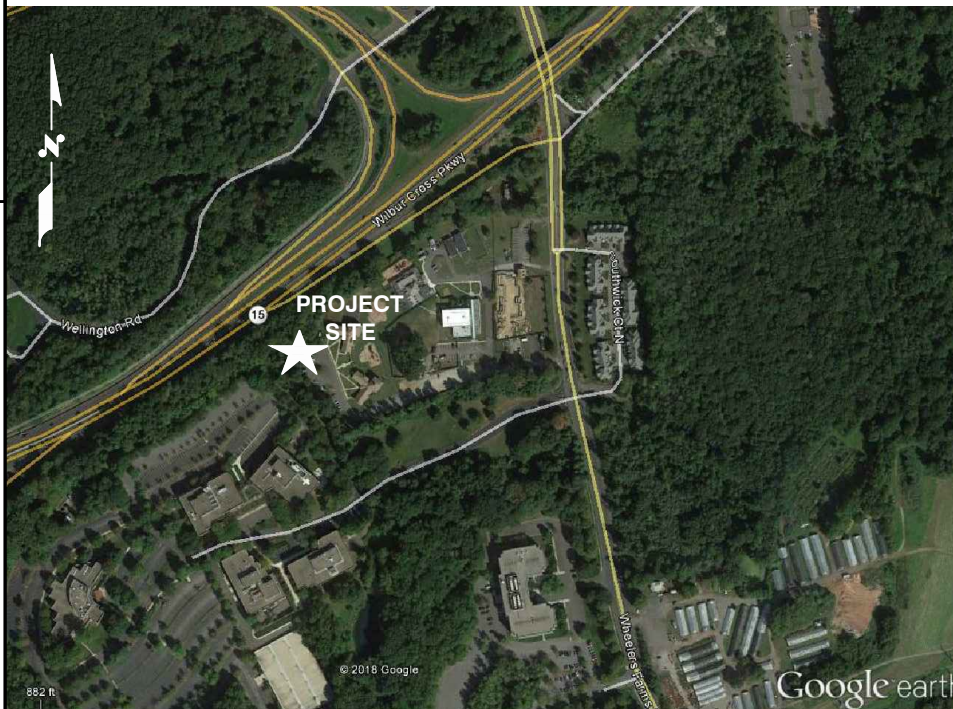
PROJECT: LTE 3C_4C 2018 UPGRADE

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
G-1	GROUNDING DETAILS	1
RF-1	RF PLUMBING DIAGRAM (ALPHA & BETA)	1
RF-2	RF PLUMBING DIAGRAM (GAMMA)	1

VICINITY MAP

DIRECTIONS TO SITE:
 2083 MILFORD WHEELERS FARM MERRITT PARKWAY NORTH. GET OFF AT EXIT 55-A WHEELERS FARM ROAD. TAKE A RIGHT OFF THE EXIT, JUST BEFORE YOU GET TO THE FIRST LIGHT YOU WILL TURN RIGHT INTO BOYS VILLAGE. FOLLOW DRIVEWAY STRAIGHT BACK PAST DUMPSTER TO COMPOUND. IT IS A SHELTER TELCO IS INSIDE . CHARLIE 2033866245 MAIN CONTACT FOR IN BUILDING SYSTEM IN SIKORSKY ADDRESS: 528 WHEELERS FARM ROAD, MILFORD CT 06460 ACCESS: 24/7 COMBO (0043) CONTACT: SPRINT NOC (800) 859-1400 SECURITY: NONEPOWER COMPANY: UNITED ILLUMINATING (800) 722-5584 FIRE: (203) 877-1465 POLICE: (203) 878-5991T-1 CIRCUIT NUMBERS DHPV //931005 DHPV //931006 DHXV //238856 DHXV// 238857 AND HCGS 716959 SNET: (800) 448-1008 AND (203) 420-3131 (24-HR REPAIR) METER 19 917 026 POTS 203 878-6090.



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 OR RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN.

72 HOURS



CALL TOLL FREE 1-800-922-4455

OR CALL 811

CROWN CASTLE SITE #: 876320
CROWN CASTLE SITE NAME: 528 WHEELERS FARM RD.

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>SITE NUMBER: CT2083 SITE NAME: MILFORD WHEELERS FARM CCI SITE #876320 528 WHEELERS FARM RD. MILFORD, CT 06460 NEW HAVEN COUNTY</p>	<p>550 COCHITUATE ROAD FRAMINGHAM, MA 01701</p>	1 02/25/19 ISSUED FOR CONSTRUCTION AM AT DPH		<p>AT&T TITLE SHEET (LTE 3C_4C)</p>
				A 02/12/18 ISSUED FOR REVIEW ET AT DPH		
SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: ET						

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) 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 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 AWS 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. 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 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-G, 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

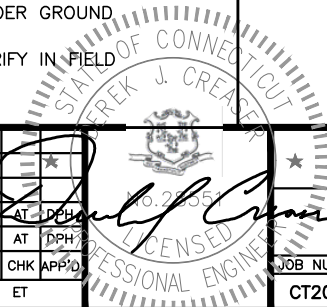
750 WEST CENTER STREET
SUITE #301
WEST BRIDGEWATER, MA 02379

SITE NUMBER: CT2083
SITE NAME: MILFORD WHEELERS FARM
CCI SITE #876320
 528 WHEELERS FARM RD.
 MILFORD, CT 06460
 NEW HAVEN COUNTY

550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	02/25/19	ISSUED FOR CONSTRUCTION	AM	ET	DPH
A	02/12/18	ISSUED FOR REVIEW	ET	AT	DPH

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



AT&T
 GENERAL NOTES
 (LTE 3C_4C)

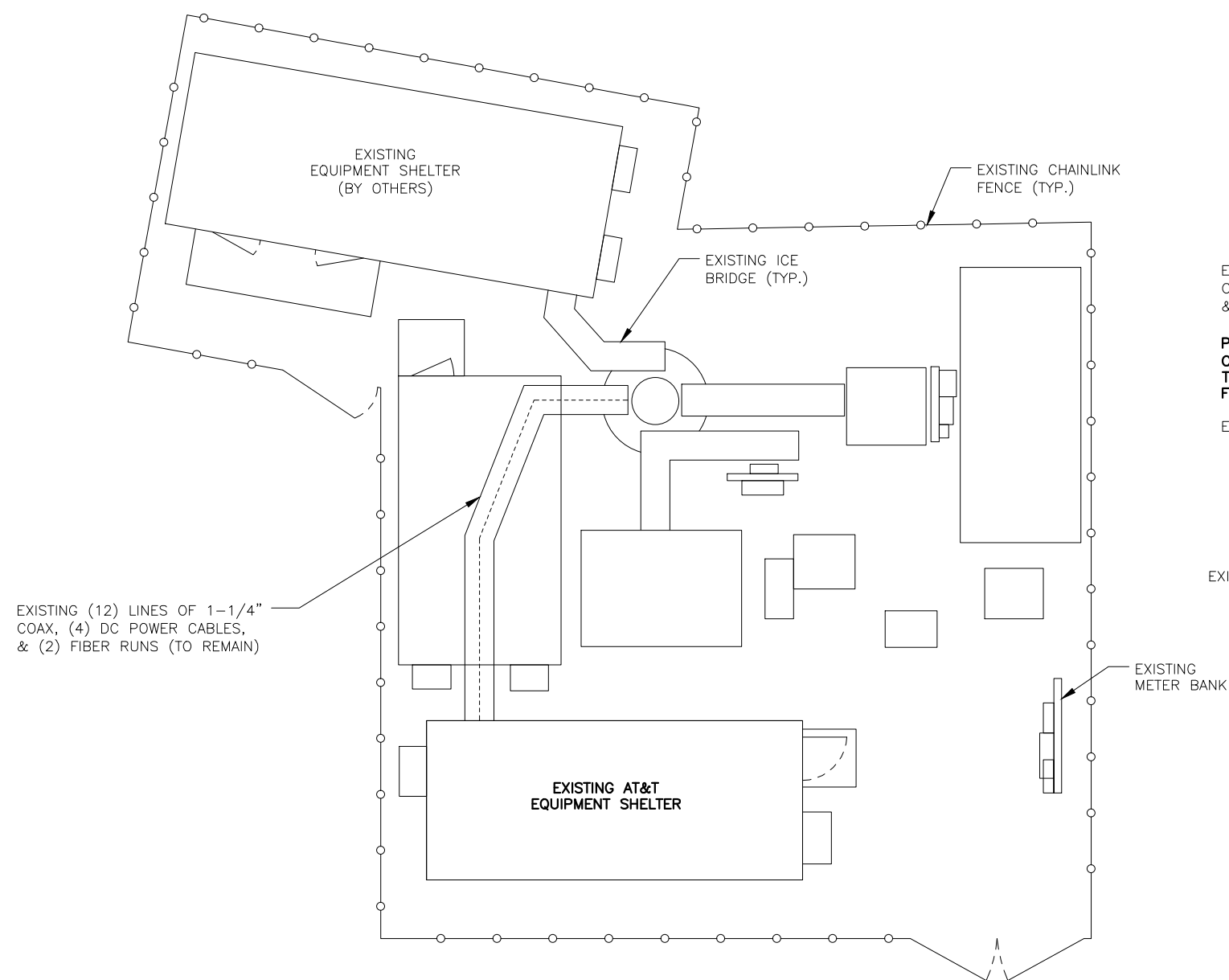
JOB NUMBER	DRAWING NUMBER	REV
CT2083	GN-1	1

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

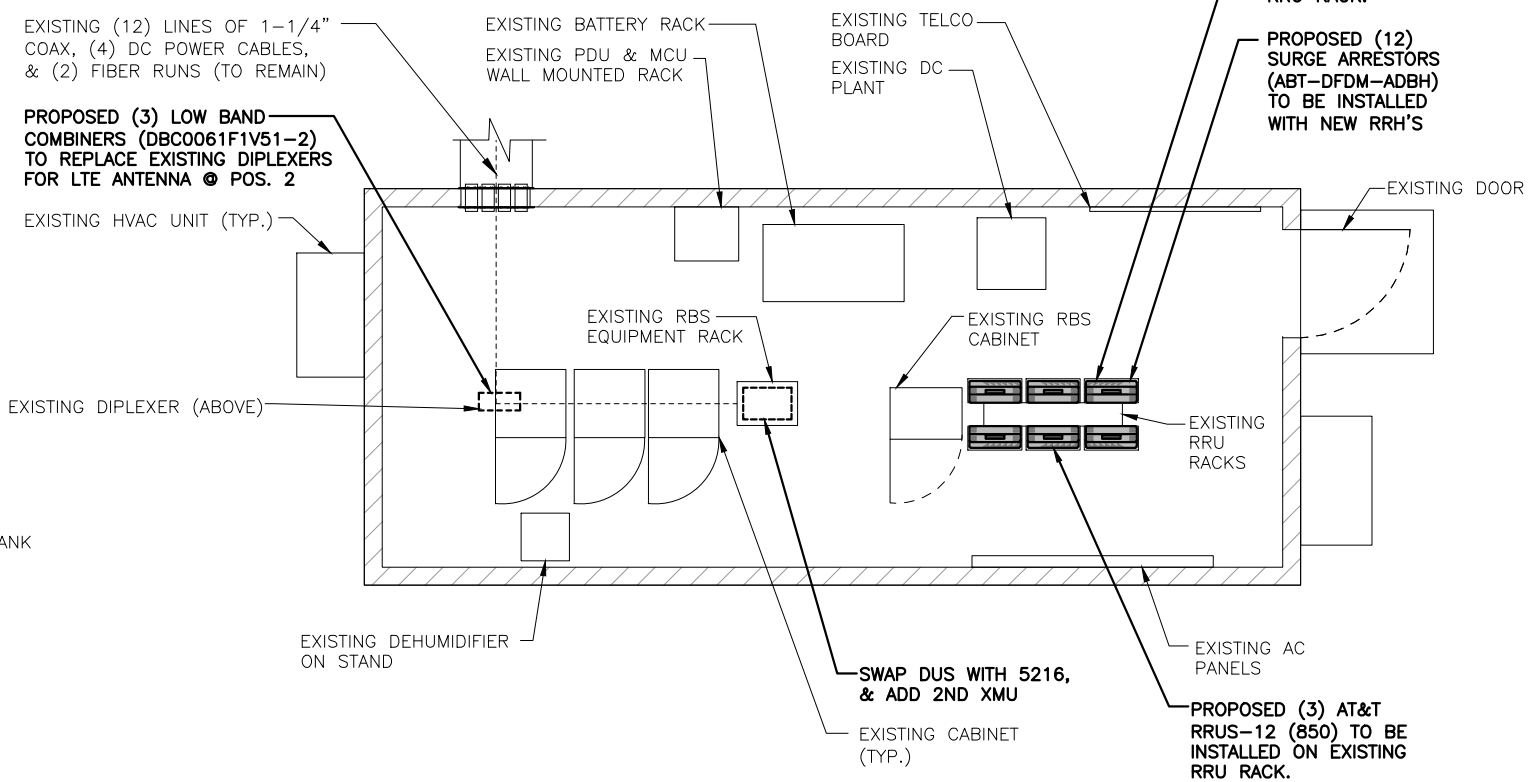
NOTE:
REFER TO STRUCTURAL ANALYSIS BY: TOWER ENGINEERING PROFESSIONALS, DATED: JANUARY 29, 2019 FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.

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

NOTE:
AN ASSESSMENT FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY: HUDSON DESIGN GROUP, LLC. DATED: APRIL 17, 2018



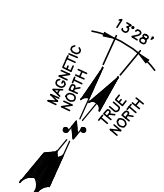
EXISTING (12) LINES OF 1-1/4" COAX, (4) DC POWER CABLES, & (2) FIBER RUNS (TO REMAIN)



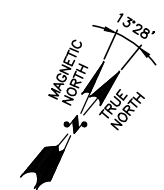
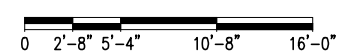
PROPOSED (3) AT&T RRUS-E2 (700) TO BE INSTALLED ON EXISTING RRU RACK.

PROPOSED (12) SURGE ARRESTORS (ABT-DFDM-ADBH) TO BE INSTALLED WITH NEW RRH'S

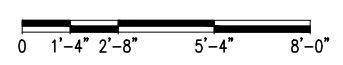
PROPOSED (3) AT&T RRUS-12 (850) TO BE INSTALLED ON EXISTING RRU RACK.



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



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



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

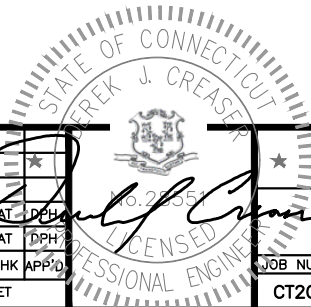
CENTERLINE COMMUNICATIONS
750 WEST CENTER STREET
SUITE #301
WEST BRIDGEWATER, MA 02379

SITE NUMBER: CT2083
SITE NAME: MILFORD WHEELERS FARM
CCI SITE #876320
528 WHEELERS FARM RD.
MILFORD, CT 06460
NEW HAVEN COUNTY

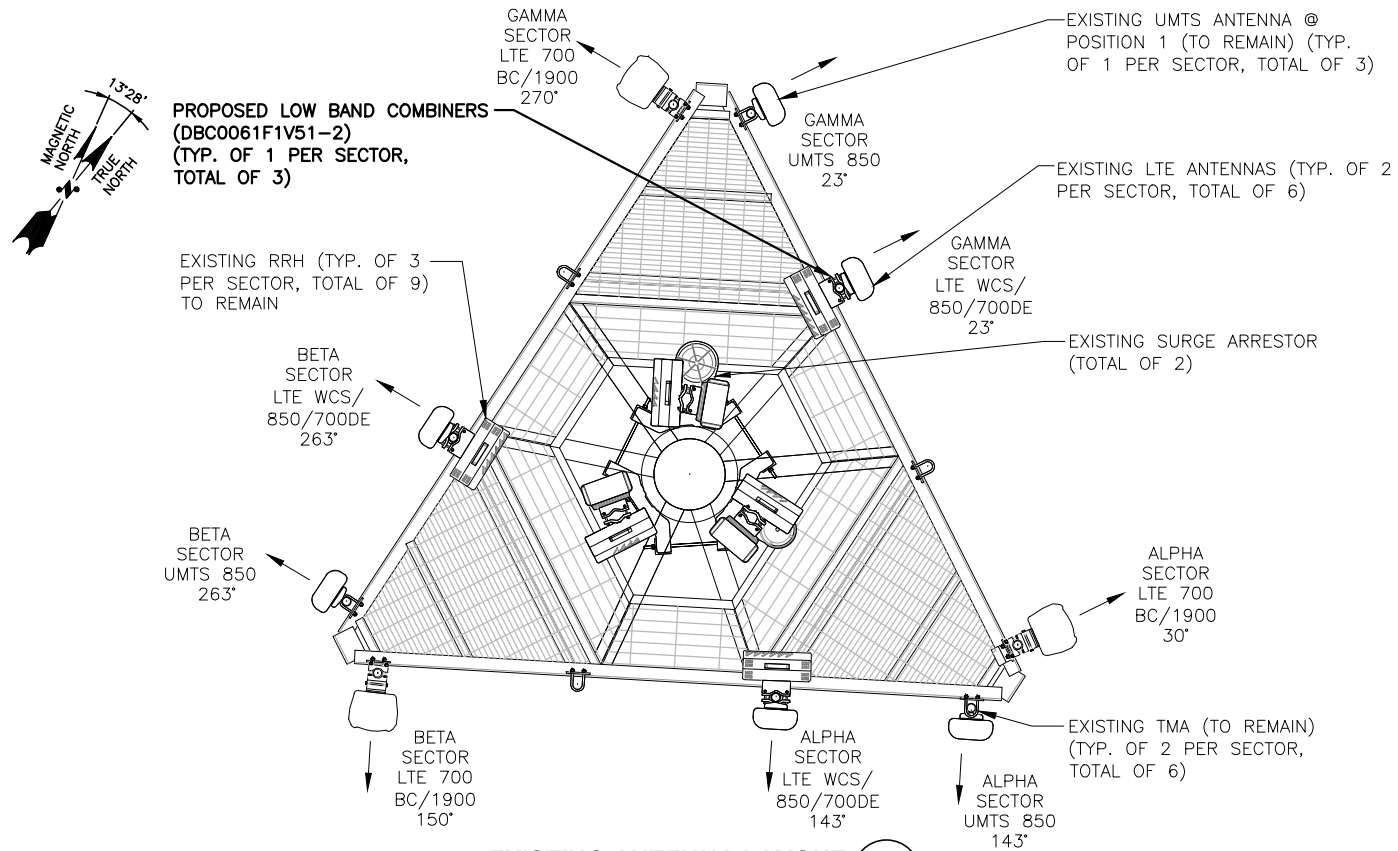
at&t
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	02/25/19	ISSUED FOR CONSTRUCTION	AM	AT	DPH
A	02/12/18	ISSUED FOR REVIEW	ET	AT	DPH

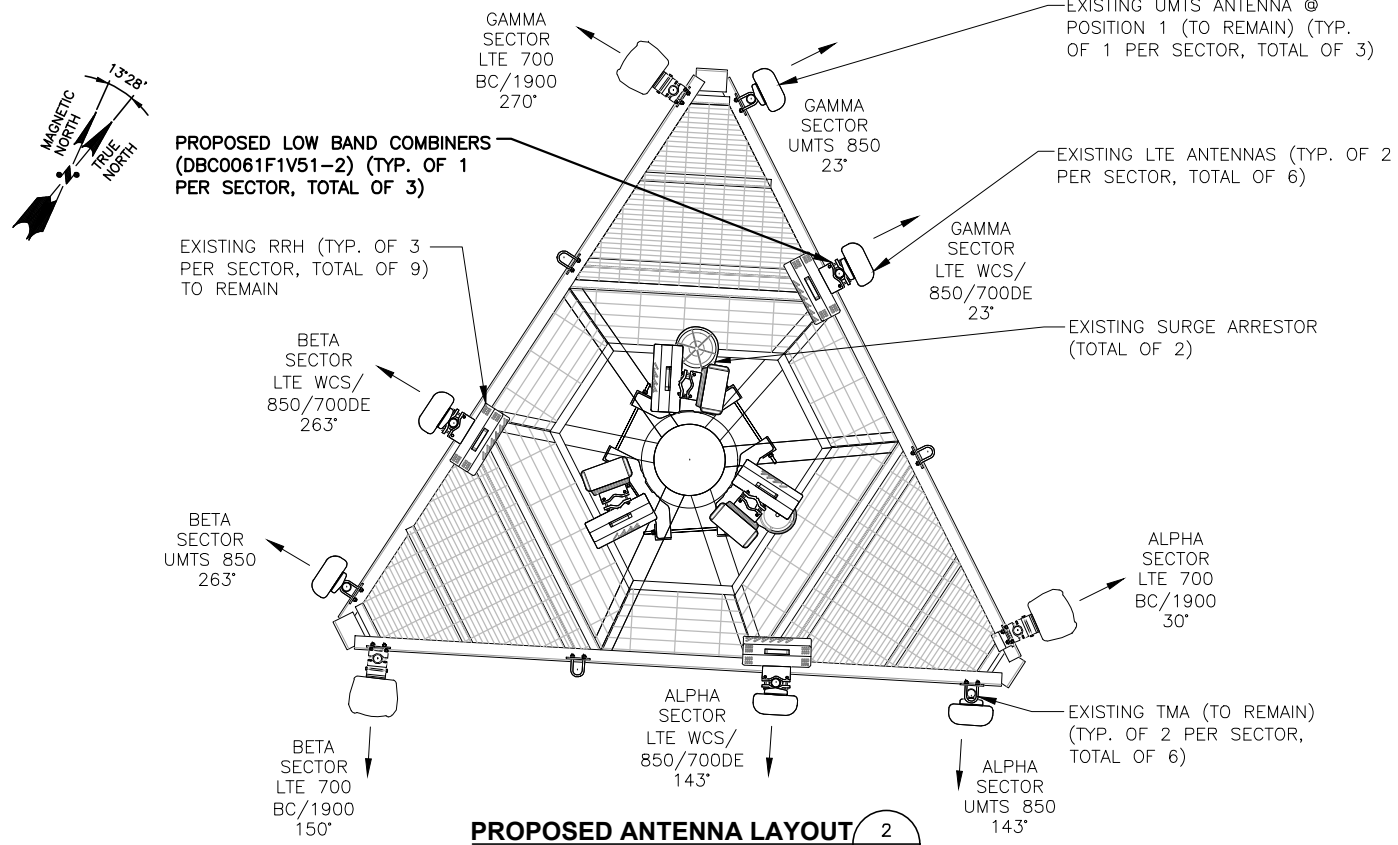
SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: ET



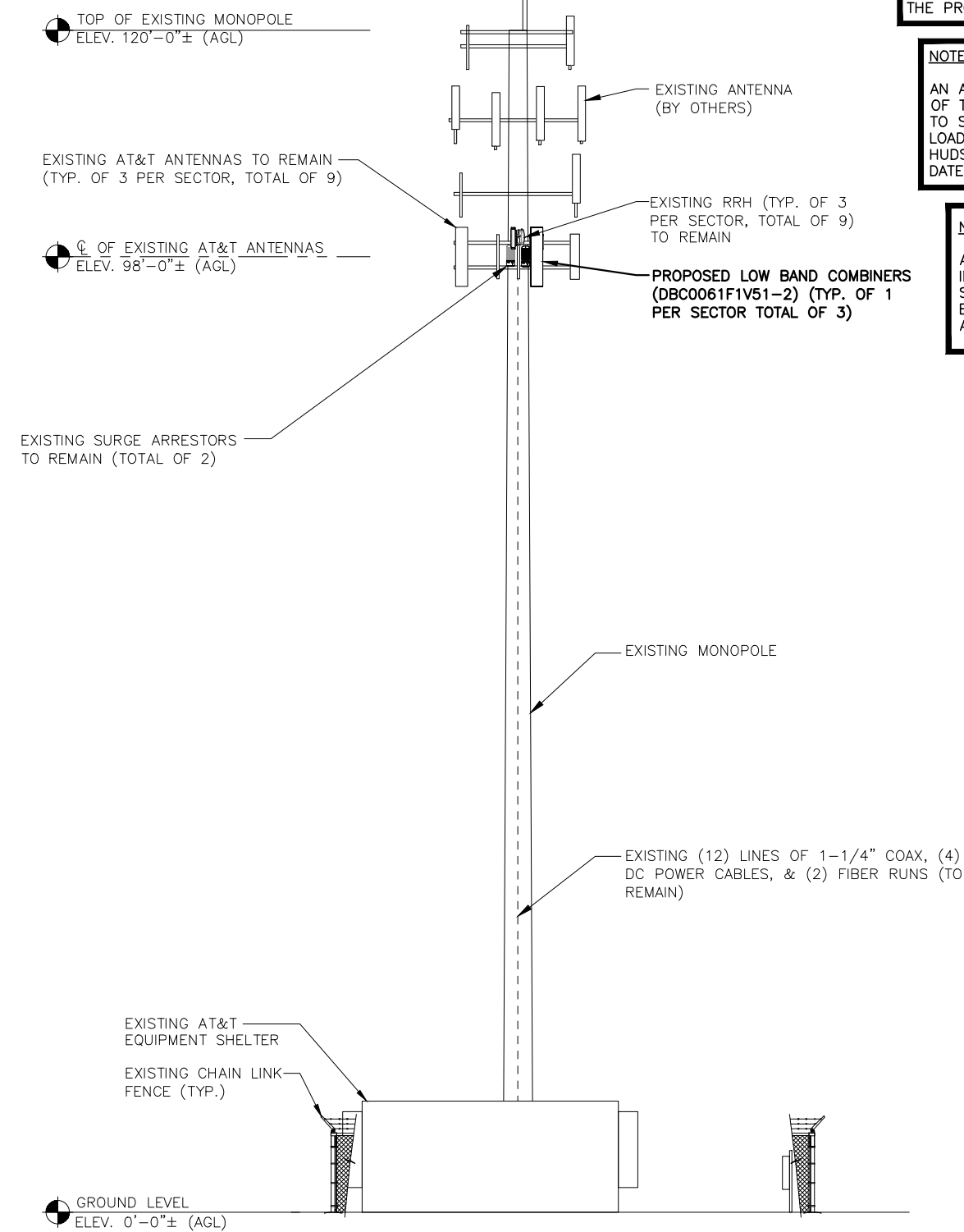
AT&T
COMPOUND AND EQUIPMENT PLAN
(LTE 3C_4C)
JOB NUMBER: CT2083 DRAWING NUMBER: A-1 REV: 1



EXISTING ANTENNA LAYOUT 1
SCALE: N.T.S. A-2



PROPOSED ANTENNA LAYOUT 2
SCALE: N.T.S. A-2



SOUTH ELEVATION 3
22x34 SCALE: 1/8"=1'-0"
11x17 SCALE: 1/16"=1'-0" A-2

NOTE:
REFER TO STRUCTURAL ANALYSIS BY: TOWER ENGINEERING PROFESSIONALS, DATED: JANUARY 29, 2019 FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.

NOTE:
AN ASSESSMENT FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY: HUDSON DESIGN GROUP, LLC. DATED: APRIL 17, 2018

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

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

HUDSON Design Group LLC
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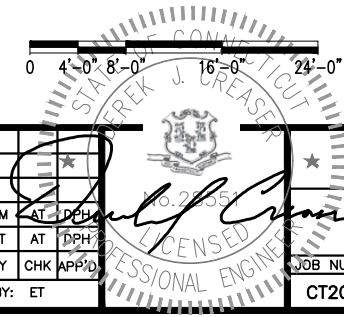
CENTERLINE COMMUNICATIONS
750 WEST CENTER STREET
SUITE #301
WEST BRIDGEWATER, MA 02379

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NEW HAVEN COUNTY

at&t
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

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A	02/12/18	ISSUED FOR REVIEW	ET	AT	DPH

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



AT&T
ANTENNA LAYOUT AND ELEVATION
(LTE 3C_4C)
JOB NUMBER: CT2083
DRAWING NUMBER: A-2
REV: 1

NOTE:
REFER TO STRUCTURAL ANALYSIS BY: TOWER ENGINEERING PROFESSIONALS, DATED: JANUARY 29, 2019 FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.

NOTE:
AN ASSESSMENT FOR THE CAPACITY OF THE EXISTING **ANTENNA MOUNT** TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY: HUDSON DESIGN GROUP, LLC. DATED: APRIL 17, 2018

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

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

FINAL ANTENNA SCHEDULE											
SECTOR	EXISTING/ PROPOSED	BAND	ANTENNA	SIZE (INCHES) (L X W X D)	RAD CENTER	AZIMUTH	TMA/ DIPLEXER	RRU	SIZE (INCHES) (L X W X D)	FEEDER	COAX
A1	EXISTING	UMTS 850	7770	55X11X5	98'-0"±	143°	(E)(2) LGP21401	-	-	(2) 1-1/4 COAX (LENGTH 150' ±)	-
A2	EXISTING	LTE WCS/850/700DE	OPA-65R-LCUU-H6	72X14.8X7.4	98'-0"±	143°	(P)(1) DBC0061F1V51-2	(E)(1) RRUS-32 (WCS) (P)(G)(1) RRUS-E2 (700) (P)(G)(1) RRUS-12 (850)	-	(2) 1-1/4 COAX (LENGTH 250' ±)	(E) (1) RAYCAP DC6-48-60-18-8
A3	-	-	-	-	-	-	-	-	-	-	
A4	EXISTING	LTE 700 BC/1900	QS66512-2	72.0X12.0X9.6	98'-0"±	30°	-	(E)(1) RRUS-11 (700) (E)(1) RRUS-32 B2 (PCS)	-	-	
B1	EXISTING	UMTS 850	7770	55X11X5	98'-0"±	263°	(E)(2) LGP21401	-	-	(2) 1-1/4 COAX (LENGTH 150' ±)	-
B2	EXISTING	LTE WCS/850/700DE	OPA-65R-LCUU-H6	72X14.8X7.4	98'-0"±	263°	(P)(1) DBC0061F1V51-2	(E)(1) RRUS-32 (WCS) (P)(G)(1) RRUS-E2 (700) (P)(G)(1) RRUS-12 (850)	-	(2) 1-1/4 COAX (LENGTH 250' ±)	(E) (1) RAYCAP DC6-48-60-18-8C
B3	-	-	-	-	-	-	-	-	-	-	
B4	EXISTING	LTE 700 BC/1900	QS66512-2	72.0X12.0X9.6	98'-0"±	150°	-	(E)(1) RRUS-11 (700) (E)(1) RRUS-32 B2 (PCS)	-	-	
C1	EXISTING	UMTS 850	7770	55X11X5	98'-0"±	23°	(E)(2) LGP21401	-	-	(2) 1-1/4 COAX (LENGTH 150' ±)	-
C2	EXISTING	LTE WCS/850/700DE	OPA-65R-LCUU-H6	72X14.8X7.4	98'-0"±	23°	(P)(1) DBC0061F1V51-2	(E)(1) RRUS-32 (WCS) (P)(G)(1) RRUS-E2 (700) (P)(G)(1) RRUS-12 (850)	-	(2) 1-1/4 COAX (LENGTH 250' ±)	SHARED
C3	-	-	-	-	-	-	-	-	-	-	
C4	EXISTING	LTE 700 BC/1900	QS66512-2	72.0X12.0X9.6	98'-0"±	270°	-	(E)(1) RRUS-11 (700) (E)(1) RRUS-32 B2 (PCS)	-	-	

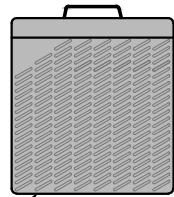
FINAL ANTENNA SCHEDULE
SCALE: N.T.S

1
A-3

RRU CHART				
QUANTITY	MODEL	L	W	D
6(E)	RRUS-11	19.7"	17.0"	7.2"
6(E)	RRUS-32	27.2"	12.1"	7.0"
3(P)(G)	RRUS-E2	20.4"	18.5"	7.5"
3(P)(G)	RRUS-12	20.4"	18.5"	7.5"

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

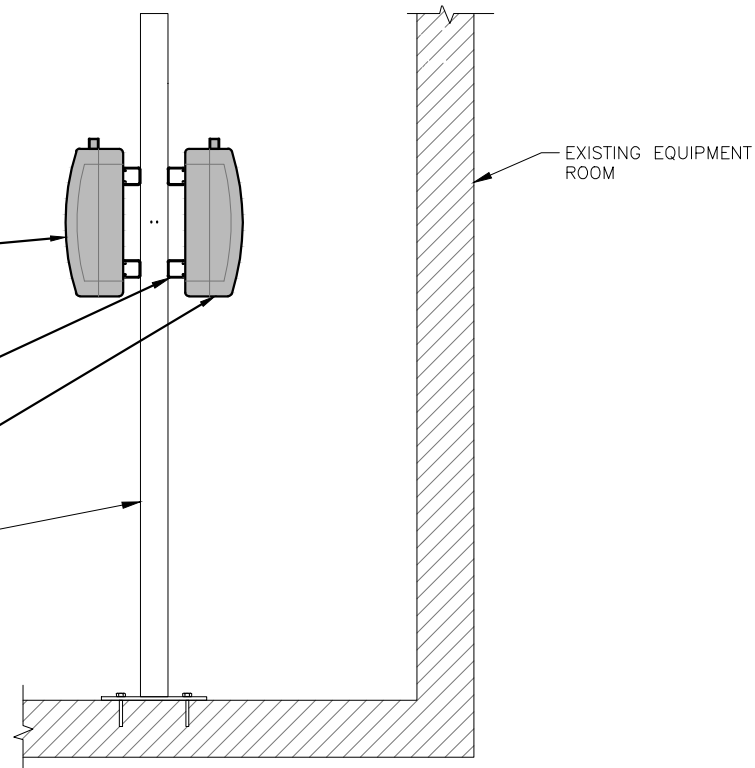
NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

PROPOSED (3) AT&T RRUS-12 (850) TO BE INSTALLED ON EXISTING RRU RACK.

PROPOSED HORIZONTAL P1000 UNISTRUT (TYP.)

PROPOSED (3) AT&T RRUS-E2 (700) TO BE INSTALLED ON EXISTING RRU RACK.

EXISTING EQUIPMENT RACK



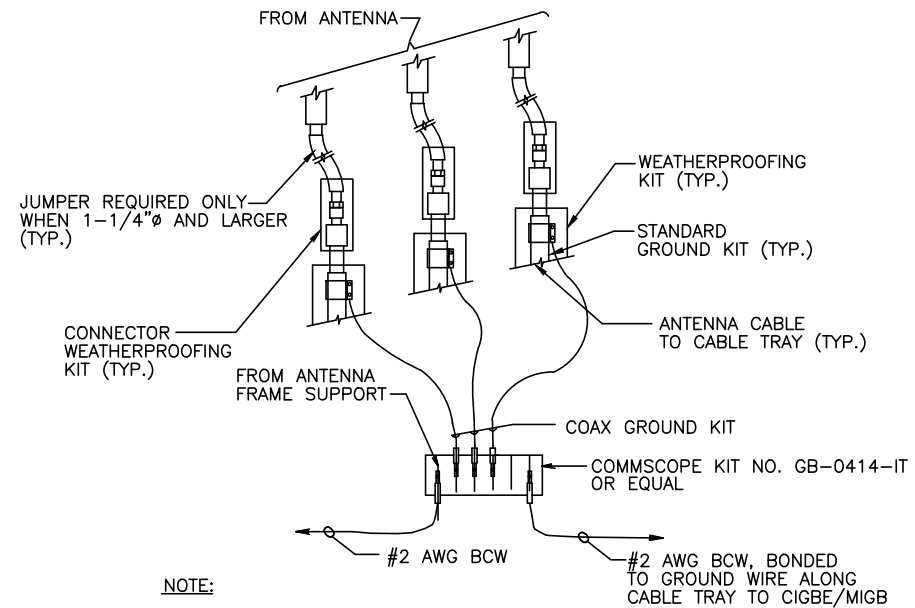
**PROPOSED RRUS MOUNTING
DETAIL ON EXISTING RACK**

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

3
A-3

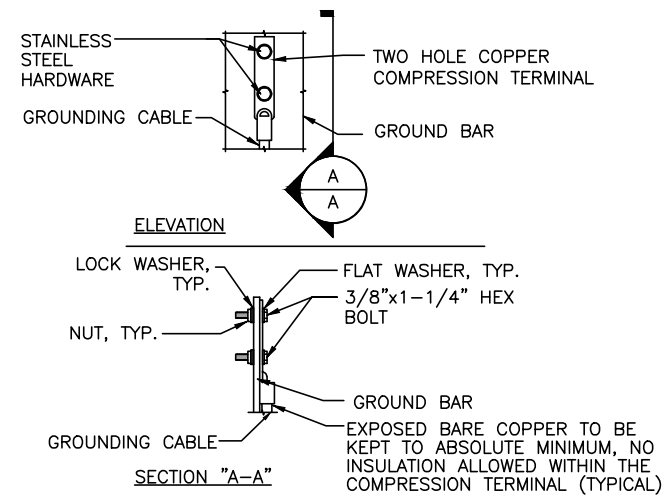
PROPOSED RRUS DETAIL

2
A-3



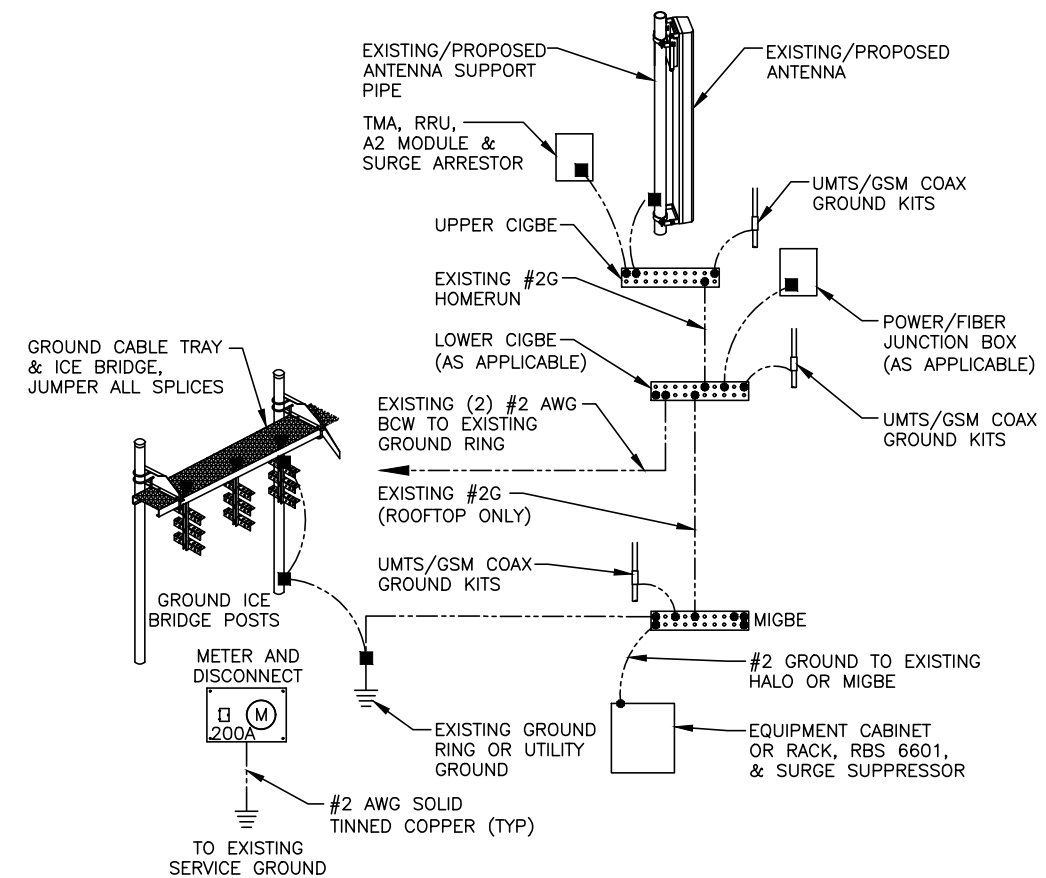
NOTE:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE.

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



NOTE:
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



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

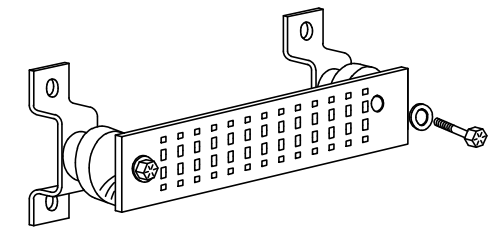
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

SECTION "P" - SURGE PRODUCERS

- CABLE ENTRY PORTS (HATCH PLATES) (#2)
- GENERATOR FRAMEWORK (IF AVAILABLE) (#2)
- TELCO GROUND BAR
- COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
- +24V POWER SUPPLY RETURN BAR (#2)
- 48V POWER SUPPLY RETURN BAR (#2)
- RECTIFIER FRAMES.

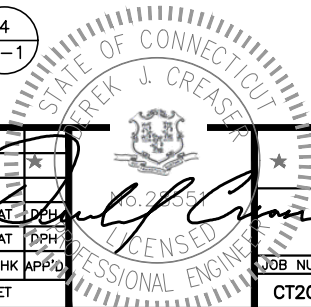
SECTION "A" - SURGE ABSORBERS

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



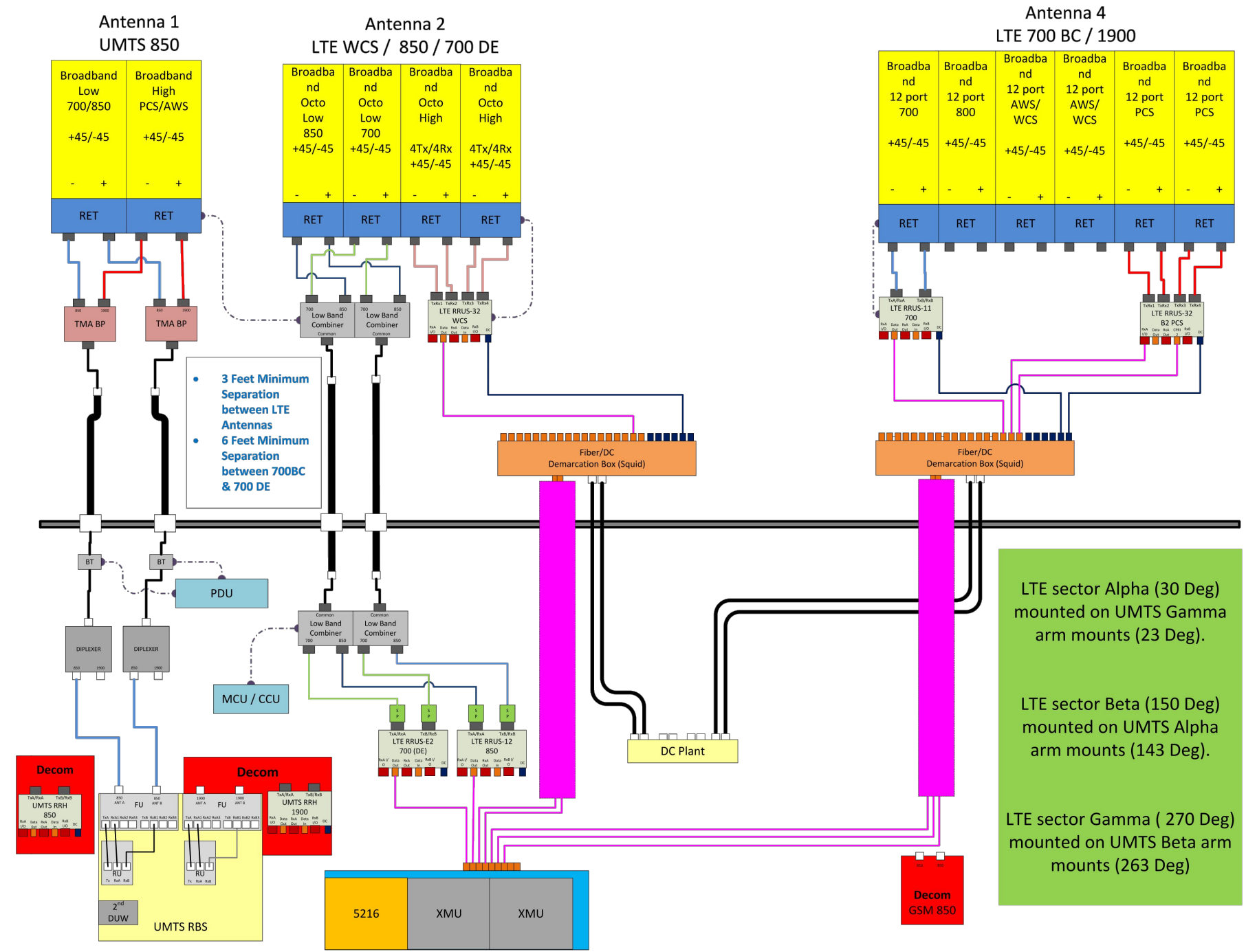
GROUND BAR - DETAIL 4
SCALE: N.T.S. G-1

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



AT&T		
GROUNDING DETAILS (LTE 3C_4C)		
JOB NUMBER	DRAWING NUMBER	REV
CT2083	G-1	1

ALPHA & BETA SECTORS



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
SCALE: N.T.S.

1
RF-1

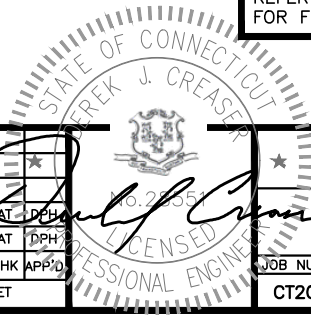
HG HUDSON
Design Group LLC
45 BEECHWOOD DRIVE
NORTH ANDOVER, MA 01845
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CENTERLINE
COMMUNICATIONS
750 WEST CENTER STREET
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528 WHEELERS FARM RD.
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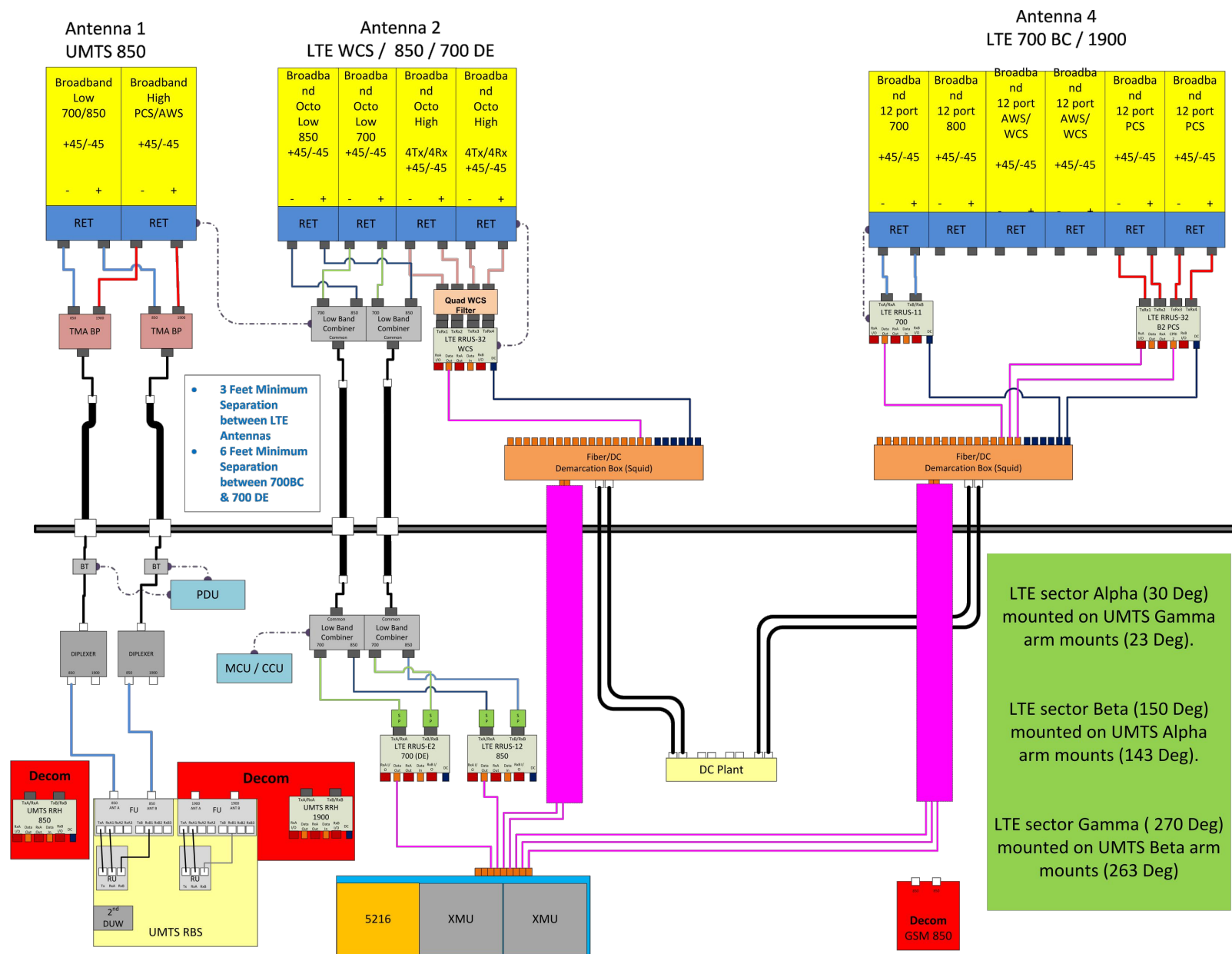
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AT&T
RF PLUMBING DIAGRAM
(LTE 3C_4C)

JOB NUMBER	DRAWING NUMBER	REV
CT2083	RF-1	1

GAMMA SECTOR



RF PLUMBING DIAGRAM
SCALE: N.T.S.

1
RF-2

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

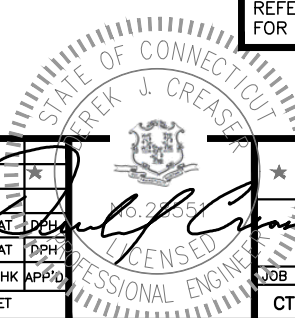
NOTE:
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NEW HAVEN COUNTY



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AT&T

RF PLUMBING DIAGRAM
(LTE 3C_4C)

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

JOB NUMBER	DRAWING NUMBER	REV
CT2083	RF-2	1

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