

426 Kinds Park Dr. EXT Apt D Liverpool, NY 13090
△ ahebel@clinellc.com
215.588.7035

July 16, 2020

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

**Re:** Notice of Exempt Modifications – AT&T Site CT1089 AT&T Telecommunications Facility @ 47 Turnpike Road Willington, CT

Dear Ms. Bachman,

New Cingular Wireless, PCS, LLC ("AT&T") currently maintains a wireless telecommunications facility on an existing +/- 170' monopole tower at the above referenced address, latitude 41.925538, longitude - 72.252393. Said monopole tower is owned and managed by EIP Communications I, LLC.

AT&T desires to modify its existing telecommunications facility by replacing six (6) antennas, adding three (3) additional antennas, replacing six (6) remote radio units, adding three (3) additional remote radio units, adding two (2) surge arrestors, adding four (4) DC cables and adding (2) fiber cables as more particularly detailed and described on the enclosed Construction Drawings prepared by Hudson Design Engineering last revised on June 10, 2020. The centerline height of the existing antennas is and will remain at 170 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: Erika Wiecenski, First Selectman of the Town of Willington: Michael D'Amato Zoning Agent of the Town of Willington, and Michael Culpert of EIP Communications I, 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 Commission's 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 June 30, 2020 and prepared by Paul J. Ford Company 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 Cheshire Original Tower Approval Records

Exhibit 7 – Notice Deliver Confirmations

Cc: Erika Wiecenski, First Selectman of the Town of Willington as elected official

Michael D'Amato, Zoning Agent, Town of Willington

EIP Communications I, LLC as Tower Owner

CONNECTICUT SITING COUNCIL

Check: 20927

Date: 7/14/2020

Vendor: 0

**Invoice** 566387-030-1 CT1089 P.O. Num.

**Invoice Amt** 625.00

625.00

Prior **Balance** 625.00

625.00

Retention 0.00

0.00

**Discount** 0.00

Amt. Paid 625.00

625.00

0.00

**Centerline Communications LLC** 

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

CONNECTICUT SITING COUNCIL

ROCKLAND TRUST COMPANY MEDFIELD, MA 02052

53-447/113

DATE

**AMOUNT** 

20927

020927

Security features. Details on back

A

PAY TO THE ORDER

OF

7/14/2020 THE SUM OF SIX HUNDRED TWENTY FIVE DOLLARS AND NO CENTS \*

**VOID AFTER 90** DAYS

\*\*\*\*\*\*\*\*625.00

AUTHORIZED SIGNATURE

#O 20927# #O 11304478#

29 2 200 98 7 911

**Centerline Communications LLC** 

CONNECTICUT SITING COUNCIL

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0.00

**Discount** 

0.00

625.00

625.00

Amt. Paid

020927

PRODUCT CE1011S

USE WITH CE597 ENVELOPE

COMPUTER EASE FORMS (877) 577-5791



# EXHIBIT 1

# PROJECT INFORMATION

ITEMS TO BE MOUNTED ON THE EXISTING MONOPOLE:

• NEW AT&T ANTENNAS: HPA65R-BU6A @ POS. 2 (TYP. OF 1 PER SECTOR, TOTAL OF 3).

• NEW AT&T ANTENNAS: OPA65R-BU6A @ POS. 3 (TYP. OF 1 PER SECTOR,

• NEW AT&T ANTENNAS: DMP65R-BU6D @ POS. 4 (TYP. OF 1 PER SECTOR,

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

NEW AT&T RRUS: 4449 B5/B12 (850/700) (TYP. OF 1 PER SECTOR, TOTAL OF 3).

NEW AT&T RRUS: 8843 B2/B66A (1900) (TYP. OF 1 PER SECTOR, TOTAL OF 3).

NEW AT&T DC & FIBER SURGE ARRESTOR DC6-48-60-18-8C-EV

(TOTAL OF 2) WITH (4) DC POWER & (2) FIBER RUN IN (2) 2" INNER DUCK.

ROTATE EXISTING MOUNT TO MATCH LTE AZIMUTHS.

• PROPOSED MOUNT MODS (SEE S-1 SHEET).

ITEMS TO BE MOUNTED AT EQUIPMENT LOCATION:

• ADD (1) IDLe. • ADD (1) 6630 FOR 5G. • ADD (1) XMU.

• INSTALL (1) DC 12.

• INSTALL (2) FIBER MANAGEMENT BOX.

• INSTALL (1) NEW NETSURE 7100 W/BATT 3 UP CONVERTERS.

ITEMS TO BE REMOVED:

◆ EXISTING AT&T ANTENNAS: AM-X-CD-16-65-00T-RET @ POS. 3

(TYP. OF 1 PER SECTOR, TOTAL OF 3).

• EXISTING AT&T ANTENNAS: 7770 @ POS. 4 (TYP. OF 1 PER SECTOR, TOTAL OF 3).

• EXISTING AT&T RRUS: RRUS-11 B12 (700) (TYP. OF 1 PER SECTOR, TOTAL OF 3).

• EXISTING AT&T RRUS: RRUS-12 B2 (1900) (TYP. OF 1 PER SECTOR, TOTAL OF 3). • EXISTING AT&T TMAS: LGP 21401 (TYP. OF 2 PER SECTOR, TOTAL OF 6).

• EXISTING AT&T DIPLEXERS: LGP 21901 (TYP. OF 2 PER SECTOR, TOTAL OF 6).

• EXISTING GALAXY +24 POWER PLANT W/ (2) CONVERTER SHELFS.

•(3) ANTENNAS, (6) TMA'S, (6) DIPLEXERS, (1) SURGE ARRESTOR,

(12) COAX CABLES, (2) DC POWER & (1) FIBER.

2051A0V8ME, 2051A0V7XN, 2051A0V7VN, 2051A0V8TB

MONOPOLE / INDOOR EQUIPMENT

SITE ADDRESS: 47 TURNPIKE ROAD

WILLINGTON, CT 06279

LATITUDE: 41.925538° N, 41° 55′ 31.94″ N LONGITUDE: 72.252393° W, 72° 15' 8.61" W

STRUCTURE HEIGHT: 170'-0"±

TYPE OF SITE:

RAD CENTER: 169'-6"+

CURRENT USE: TELECOMMUNICATIONS FACILITY PROPOSED USE: TELECOMMUNICATIONS FACILITY

# DRAWING INDEX

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A-2	ANTENNA LAYOUTS & ELEVATION	2
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G-1	GROUNDING DETAILS	2
RF-1	RF PLUMBING DIAGRAM	2



**SITE NUMBER: CT1089** 

SITE NAME: WILLINGTON TPKE RD

**FA CODE: 10035378** 

PACE ID: MRCTB047122, MRCTB047113, MRCTB047082, MRCTB047093

PROJECT: BWE, LTE 3C, RETRO, 5G NR 2021 UPGRADE

# VICINITY MAP

#### DIRECTIONS TO SITE:

DEPART ENTERPRISE DR TOWARD CAPITOL BLVD (0.4 MI), TURN LEFT ONTO CAPITOL BLVD (0.2 MI), TURN LEFT ONTO WEST ST (0.3 MI). TAKE RAMP LEFT FOR I-91 NORTH (9.7 MI), TAKE EXIT 29, MERGE ONTO CT-15 N/US-5 N TOWARD I-84 E, CONTINUE ONTO CT-15 N (.8 MILES). TAKE EXIT 7 FOR CT-320/RUBY RD, TURN LEFT ONTO CT-320 N/RUBY RD (.2 MILES) CONTINUE ONTO TURNPIKE RD, DESTINATION WILL BE ON LEFT.



- 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.
- CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN.

# PROJECT SITE

72 HOURS



BEFORE YOU DIG

CALL TOLL FREE 1 - 800 - 922 - 4455

or call 811

UNDERGROUND SERVICE ALERT

HUDSON Design Group LLC CENTERLINE

SITE NUMBER: CT1089 SITE NAME: WILLINGTON TPKE RD



SSUED FOR CONSTRUCTION 2 06/24/20 1 06/10/20 SSUED FOR REVIEW SSUED FOR REVIEW A 05/12/20 BY CHK APP SCALE: AS SHOWN DESIGNED BY: AT



AT&T

TITLE SHEET

SWE, LTE 3C, RETRO, 5G NR 2021 UPGRADE

CT1089

NORTH ANDOVER, MA 01845

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

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

47 TURNPIKE ROAD WILLINGTON, CT 06279 TOLLAND COUNTY

# **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
втсш	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	Р	PROPOSED	TYP	TYPICAL
Е	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	PETERDENOE		



FAX: (978) 336-5586

NORTH ANDOVER, MA 01845



750 WEST CENTER STREET, SUITE #301

WEST BRIDGEWATER, MA 02379

SITE NUMBER: CT1089 SITE NAME: WILLINGTON TPKE RD

> 47 TURNPIKE ROAD WILLINGTON, CT 06279 TOLLAND COUNTY



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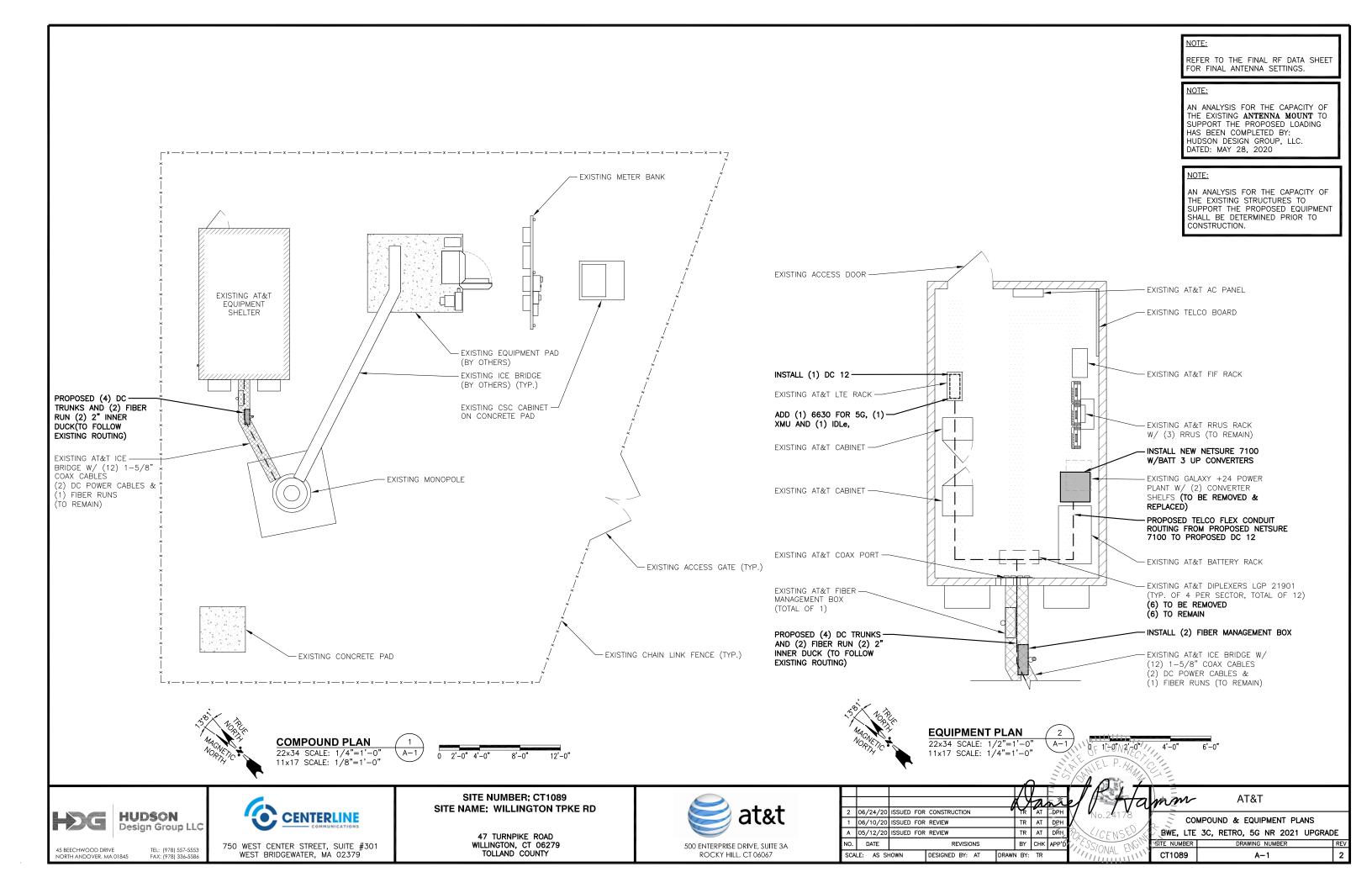
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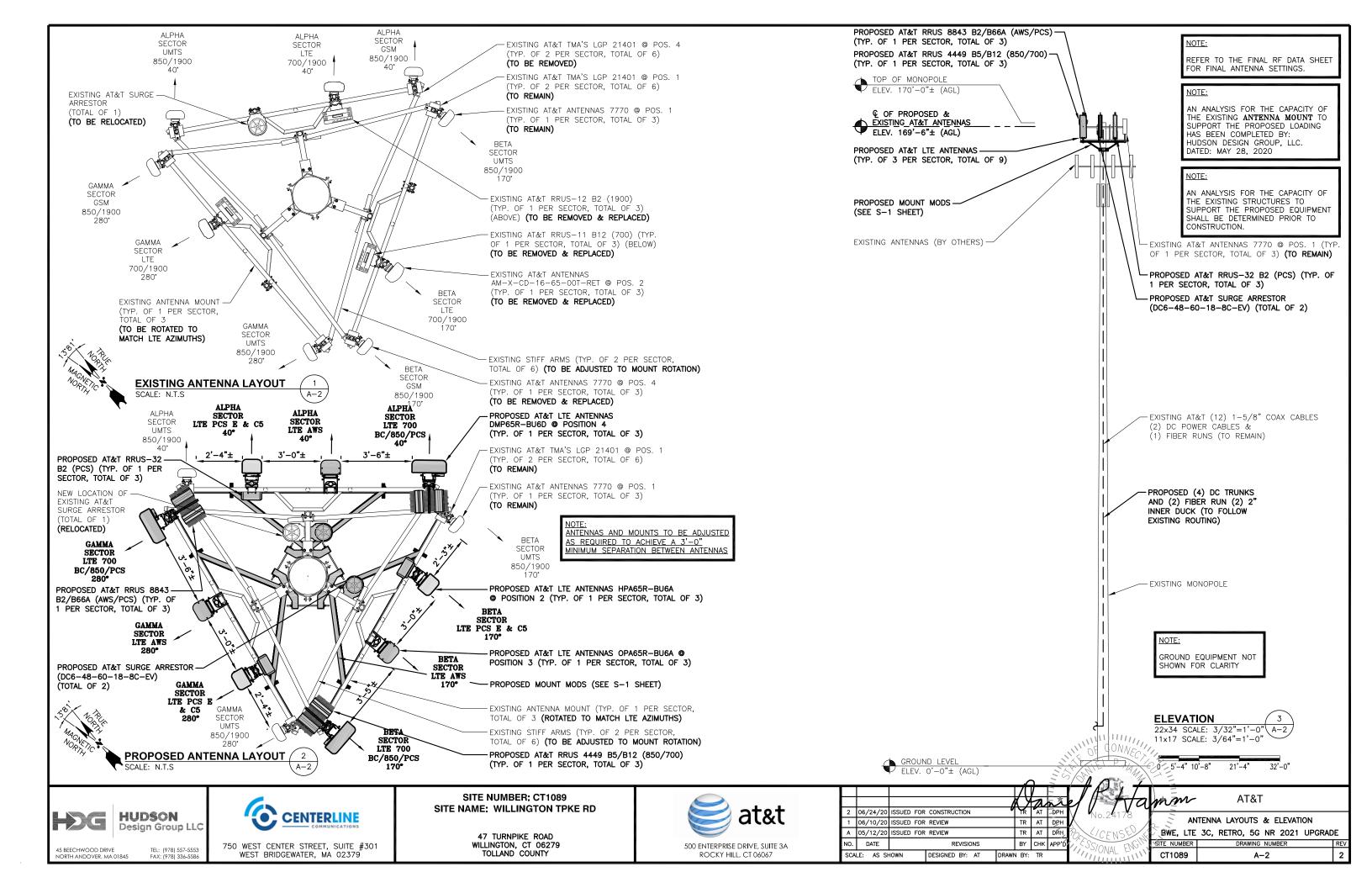
GENERAL NOTES

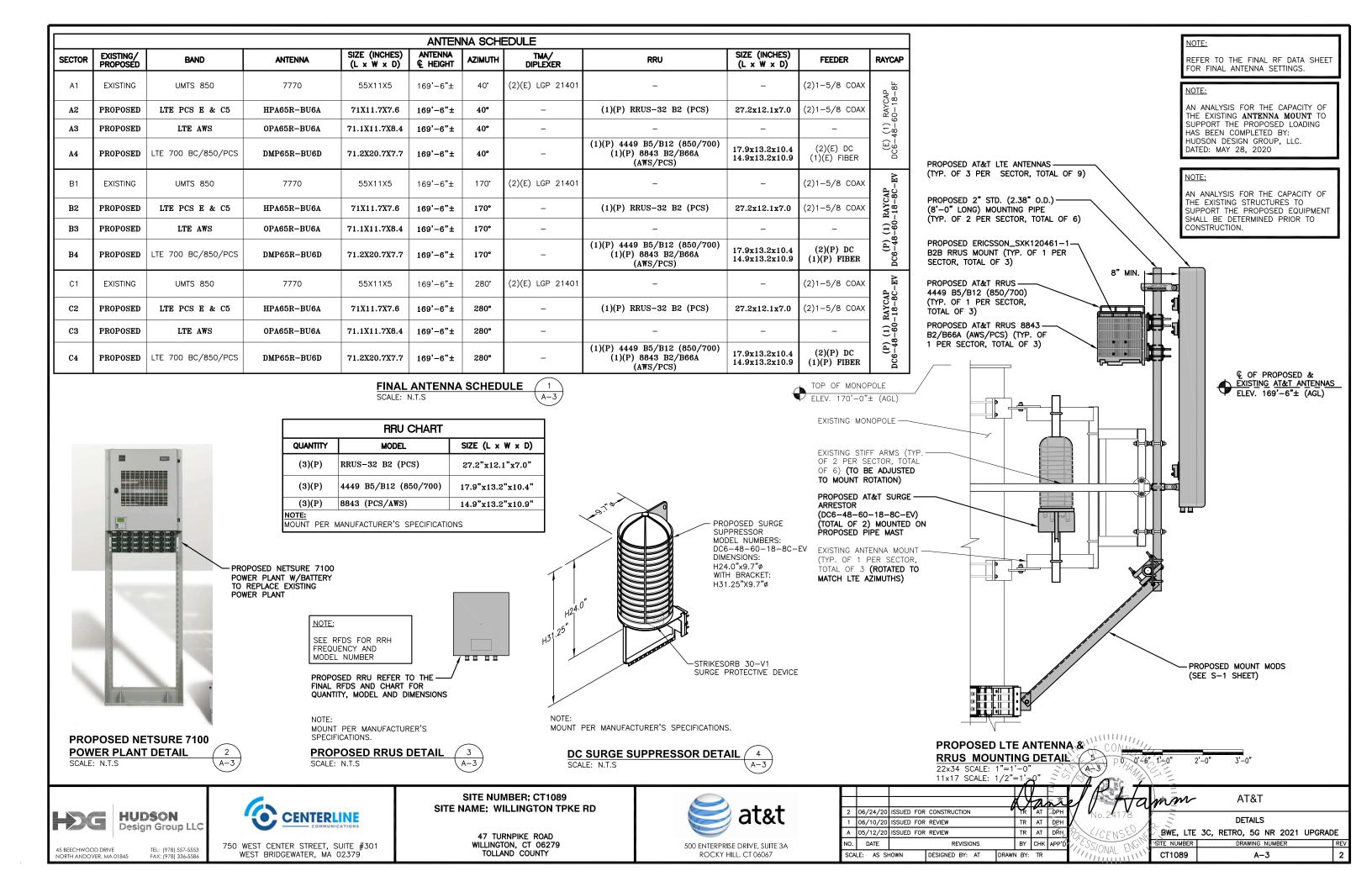
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CT1089 GN-1







### STRUCTURAL NOTES:

- DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, INTERNATIONAL BUILDING CODE, EIA/TIA-222-H STRUCTURAL STANDARDS FOR STEEL ANTENNA. TOWERS AND ANTENNA SUPPORTING STRUCTURES
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD.
- DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS"
- STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 (Fy=50 ksi), MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE
- 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 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 NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
- O. 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 DI.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.
- 2. 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.
- 3. 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
- 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.
- 15. 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.
- 6. 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.

  17. ALL FIBERGLASS MEMBERS USED ARE AS MANUFACTURED BY STRONGWELI 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.
- 8. NO MATERIALS TO BE ORDERED AND NO WORK TO BE COMPLETED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED IN WRITING
- 19. 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 <u>NEW</u> 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 CONCRET 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.

# CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING

CONSTRUCTION/INSTALLATION

INSPECTIONS AND TESTING

REQUIRED (COMPLETED BY

REQUIRED

REQUIRED

N/A

REQUIRED

ADDITIONAL TESTING AND INSPECTIONS

ENGINEER OF RECORD)

REPORT ITEM REQUIRED (COMPLETED BY ENGINEER OF RECORD) REQUIRED STEEL INSPECTIONS HIGH STRENGTH BOLT N/A INSPECTIONS N/A HIGH WIND ZONE INSPECTIONS 4 N/A FOUNDATION INSPECTIONS CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT POST INSTALLED ANCHOR N/A VERIFICATION N/A GROUT VERIFICATION

**DURING CONSTRUCTION** 

SPECIAL INSPECTION CHECKLIST

BEFORE CONSTRUCTION

REPORT ITEM

SHOP DRAWINGS

PACKING SLIPS

MATERIAL SPECIFICATIONS

FABRICATOR NDE INSPECTION

CERTIFIED WELD INSPECTION

ON SITE COLD GALVANIZING

VERIFICATION

EARTHWORK: LIFT AND DENSITY

ENGINEER OF RECORD APPROVED

GUY WIRE TENSION REPORT N/A ADDITIONAL TESTING AND INSPECTIONS:

N/A

N/A

N/A

#### **AFTER CONSTRUCTION**

CONSTRUCTION / INSTALLATION INSPECTIONS AND TESTING REPORT ITEM REQUIRED (COMPLETED BY ENGINEER OF RECORD)

MODIFICATION INSPECTOR REDLINE REQUIRED OR RECORD DRAWINGS POST INSTALLED ANCHOR N/A PULL-OUT TESTING REQUIRED PHOTOGRAPHS

ADDITIONAL TESTING AND INSPECTIONS

MOE CONNE

HUDSON Design Group LLC

FAX: (978) 336-5586

NORTH ANDOVER, MA 01845



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

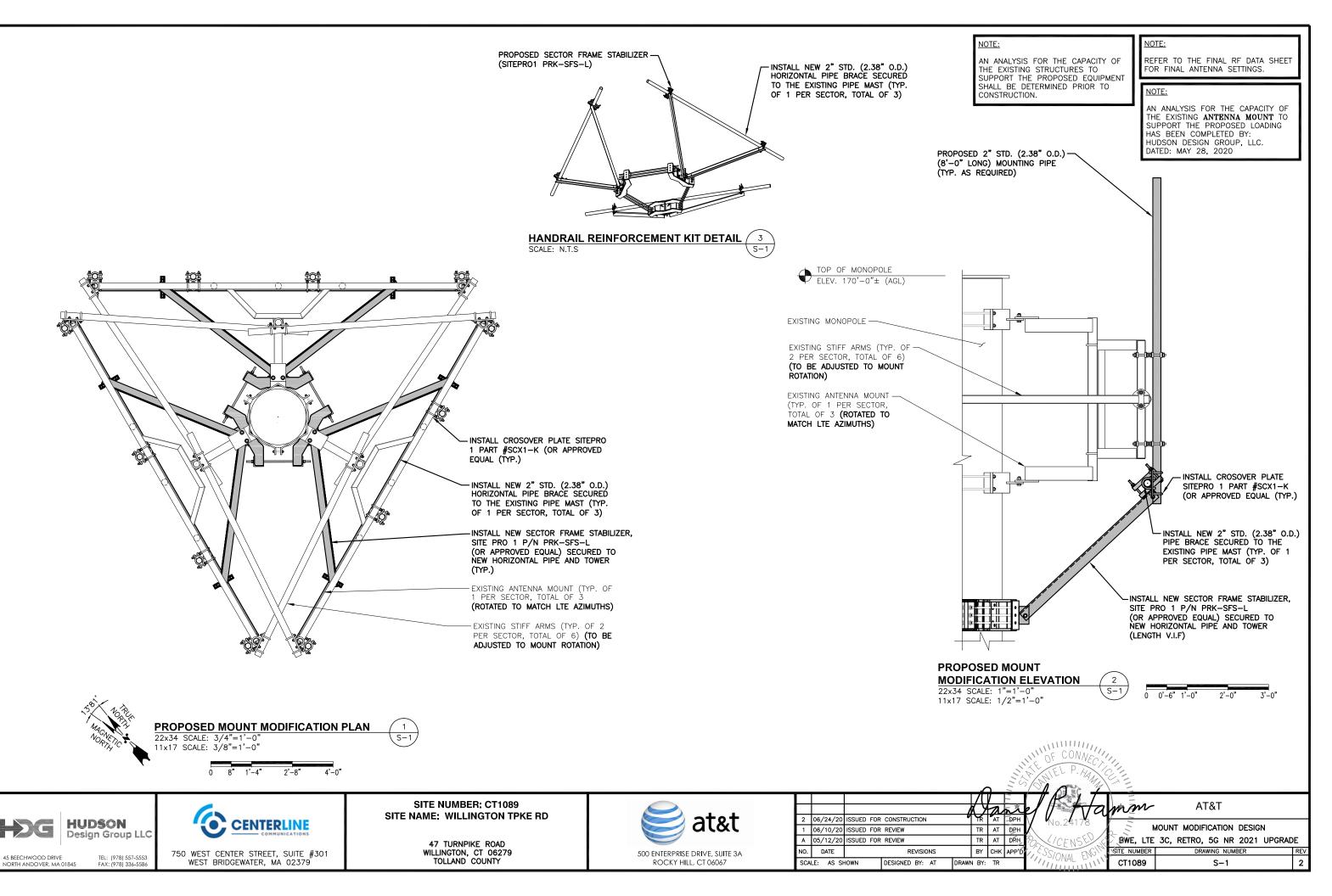
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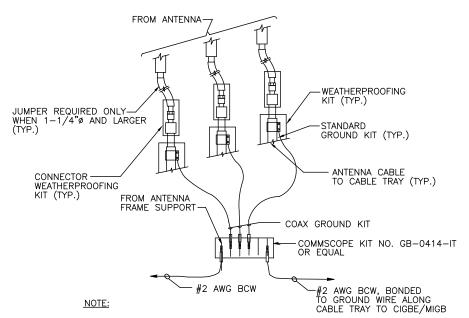
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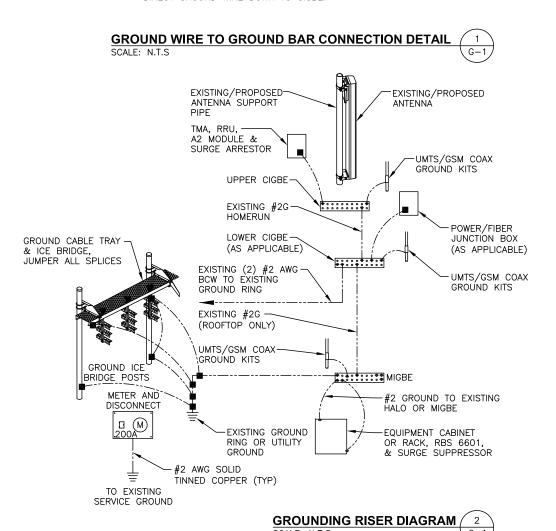
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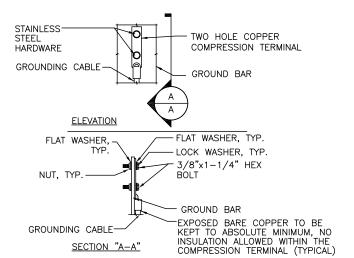
AT&T STRUCTURAL NOTES BWE, LTE 3C, RETRO, 5G NR 2021 UPGRADE CT1089 SN-1





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





### NOTES:

- "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 SCALE: N.T.S



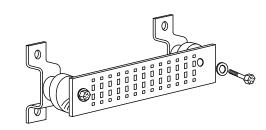
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

# SECTION "P" - SURGE PRODUCERS

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

# SECTION "A" - SURGE ABSORBERS

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



# GROUND BAR - DETAIL (AS REQUIRED)

SCALE: N.T.S



NORTH ANDOVER, MA 01845

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



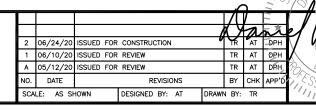
750 WEST CENTER STREET, SUITE #301

WEST BRIDGEWATER, MA 02379"

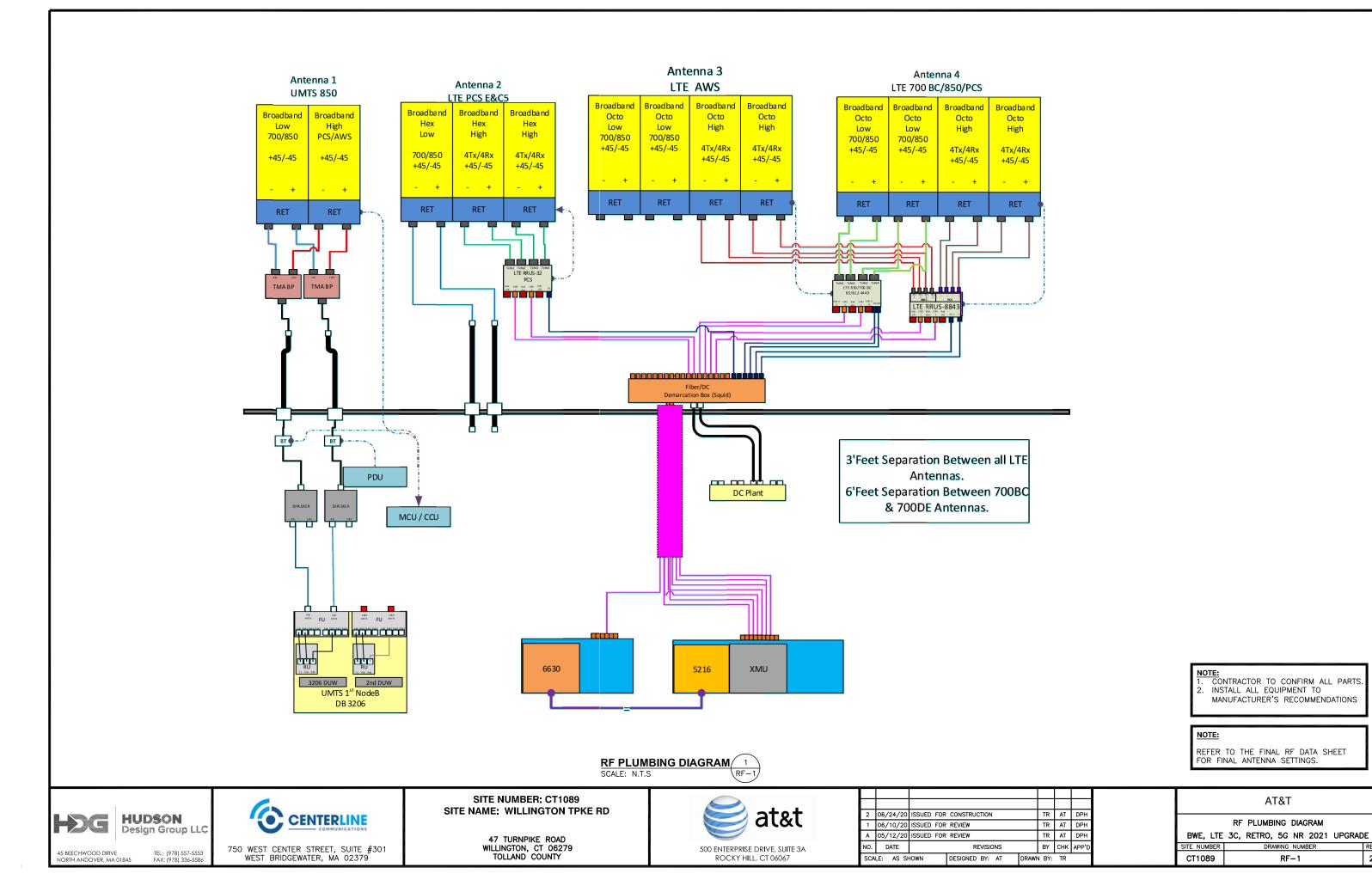
SITE NUMBER: CT1089 SITE NAME: WILLINGTON TPKE RD

> 47 TURNPIKE ROAD WILLINGTON, CT 06279 TOLLAND COUNTY

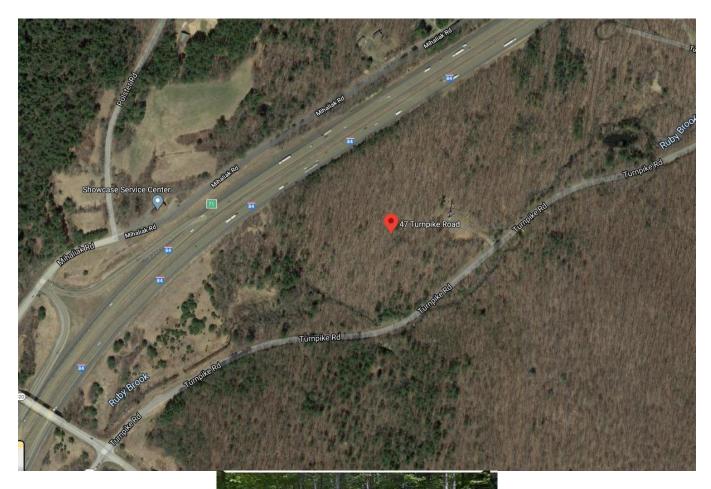


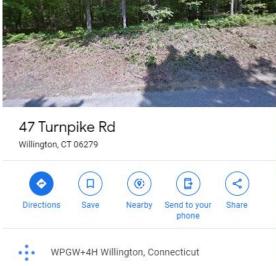


AT&T GROUNDING DETAILS BWE, LTE 3C, RETRO, 5G NR 2021 UPGRADE CT1089



# EXHIBIT 2





# EXHIBIT 3



Report Date: June 30, 2020

**Client:** Everest Infrastructure Partners

1435 Bedford Avenue Pittsburgh, PA 15219 Attn: Thomas Rigg (603) 498-7462

tom.rigg@everestinfrastructure.com

**Structure:** Existing 170-ft Monopole

Site Name: Willington CT1089

Site Address: 47 Turnpike Road

City, County, State: Willington, Tolland County, CT

**Latitude, Longitude:** 41.9255°, -72.2524°

**PJF Project:** A13320-0004.001.7805

Paul J. Ford and Company is pleased to submit this "Structural Analysis Report" to determine the tower stress level.

# **Analysis Criteria:**

This analysis utilizes an ultimate 3-second gust wind speed of 125 mph as required by the 2018 Connecticut State Building Code and Appendix N. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

# **Proposed Appurtenance Loads:**

The structure was analyzed with the addition of the proposed appurtenance loads shown in Table 1 combined with the existing loads shown in Table 2 of this report.

# **Summary of Analysis Results:**

Existing Structure: Pass – 63.8% Existing Foundation: Pass – 72.8%

We at Paul J. Ford and Company appreciate the opportunity of providing our continuing professional services to you and Everest Infrastructure Partners. If you have any questions or need further assistance on this or any other projects, please give us a call.

Respectfully Submitted by: Paul J. Ford and Company

Natur C. Miller

Nathan C. Miller, E.I. Structural Designer 10 nmiller@pauliford.com No. PEN 22731

CENSE

OG. 30.2

Columbus

250 E Broad St, Suite 600 Columbus, OH 43215 Phone 614.221.6679 Orlando

1801 Lee Rd, Suite 230 Winter Park, FL 32789 Phone 407.898.9039

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# 2) ANALYSIS CRITERIA

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Table 3 - Documents Provided 3.1) Analysis Method 3.2) Assumptions

# 4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)
Table 5 - Tower Component Stresses vs. Capacity
4.1) Recommendations

# 5) APPENDIX A

tnxTower Output

# 6) APPENDIX B

**Additional Calculations** 

# 1) INTRODUCTION

This tower is a 170 ft Monopole tower designed by Nudd in February of 2004.

# 2) ANALYSIS CRITERIA

TIA-222 Revision: TIA-222-G

Risk Category:

Ultimate/Nominal Wind Speed: 125/97 mph

Exposure Category:CTopographic Factor:1Ice Thickness:1 inWind Speed with Ice:50 mphService Wind Speed:60 mph

**Table 1 - Proposed Antenna and Cable Information** 

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer Antenna Model		Number of Feed Lines	Feed Line Size (in)	Note						
		3	cci antennas	DMP65R-BU6D w/ Mount Pipe									
		3	cci antennas	HPA65R-BU6A w/ Mount Pipe									
170.0	170.0	170.0	170.0	170.0	170.0	170.0	70.0 170.0	3	cci antennas	OPA65R-BU6A w/ Mount Pipe	2 4	3/8 3/4	
		3	ericsson	RRUS 32 B2									
		3	ericsson	RRUS 4449 B5/B12									
		3	ericsson	RRUS 8843 B2/B66A									
		2	raycap	DC6-48-60-18-8C									

**Table 2 - Existing Antenna and Cable Information** 

Mounting Level (ft)	Flevation	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
		3	pole mounts	12' T-Arm Mounts			
		3	powerwave technologies	7770 w/ Mount Pipe	1 2	3/8 3/4	1
		6 powerwave LGP21	LGP21401	12	1-5/8	1	
	470.0	1	raycap	DC6-48-60-18-8F			
170.0		1	andrew	SBNH-1D6565C w/ Mount Pipe	t		
170.0	170.0	3	ericsson	RRUS 11			
		3	ericsson	RRUS 12			
		2	kmw communications	AM-X-CD-16-65-00T-RET w/ Mount Pipe			2
		3	powerwave technologies	7770 w/ Mount Pipe			
		6	powerwave technologies	LGP21401			

Mounting Level (ft)	Elevation	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
		3	commscope	LNX-6515DS-VTM w/ Mount Pipe		1-5/8	
159.0	159.0	3	ems wireless	RR90-17-02DP w/ Mount Pipe	12		1
			KRY 112 71				
				3	kathrein	Smart Bias Tee	
		1	pole mounts	12' Low Profile Platform			

# Notes:

- Existing Equipment
- 2) Equipment to be Removed. Not considered in this analysis.

# 3) ANALYSIS PROCEDURE

**Table 3 - Documents Provided** 

Document	Remarks	Reference	Source
Structural Analysis	Nudd, 11/13/2016	116-23148	Everest Infrastructure Partners

# 3.1) Analysis Method

tnxTower (version 8.0.5.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A.

# 3.2) Assumptions

- 1) Tower and structures were maintained in accordance with the TIA-222 Standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.
- 3) All coaxial cables are assumed to run internal to the monopole shaft.
- 4) The manufacturer drawings are not available at the time of this analysis. Therefore, we have assumed the pole geometry, steel yield strength(s), and foundation information from the referenced structural analysis.
- 5) The foundation drawings are not available at the time of this analysis. Therefore, we have assumed that the rock anchors are in a circular pattern within the foundation.

This analysis may be affected if any assumptions are not valid or have been made in error. Paul J. Ford and Company should be notified to determine the effect on the structural integrity of the tower.

# 4) ANALYSIS RESULTS

**Table 4 - Section Capacity (Summary)** 

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	170 - 160	Pole	TP26.25x22x0.25	1	-3.74	1517.64	9.5	Pass
L2	160 - 130	Pole	TP32.56x26.25x0.25	2	-8.26	1731.25	36.5	Pass
L3	130 - 84.5	Pole	TP41.63x31.1135x0.3125	3	-16.63	2748.35	50.8	Pass
L4	84.5 - 40	Pole	TP50.38x39.8482x0.375	4	-28.52	3981.26	52.8	Pass
L5	40 - 0	Pole	TP58x48.2609x0.375	5	-44.03	4410.79	63.8	Pass
							Summary	
						Pole (L5)	63.8	Pass
						RATING =	63.8	Pass

# Table 5 - Tower Component Stresses vs. Capacity

	and a remaining an arrangement of the state										
Notes	Component	Elevation (ft)	% Capacity	Pass / Fail							
1	Anchor Rods	0	36.0	Pass							
1	Base Plate	0	52.6	Pass							
1	Base Foundation Structural Steel	0	72.8	Pass							
1	Base Foundation Soil Interaction	0	65.6	Pass							

Structure Rating (max from all components) =	72.8%
--	-------

Notes:

# 4.1) Recommendations

The tower and its foundation have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

<sup>1)</sup> See additional documentation in "Appendix B – Additional Calculations" for calculations supporting the % capacity consumed.

# STANDARD CONDITIONS FOR FURNISHING OF PROFESSIONAL ENGINEERING SERVICES ON EXISTING STRUCTURES BY PAUL J. FORD AND COMPANY

- 1) Paul J. Ford and Company has not made a field inspection to verify the monopole dimensions or the antenna/coax loading. If the existing conditions are not as represented on these sketches, we should be contacted immediately to reevaluate any conclusions stated in this report.
- 2) No allowance was made for any damaged, missing, or rusted material. The analysis of this monopole assumes that no physical deterioration has occurred in any of the structural components of the monopole and that all the structural members have the same load carrying capacity as the day the monopole was erected.
- 3) It is not possible to have all the detailed information to perform a thorough analysis of every structural subcomponent of an existing monopole. The structural analysis provided by Paul J. Ford and Company verifies the adequacy of the main structural members of the monopole. Paul J. Ford and Company provides a limited scope of service in that we cannot verify the adequacy of every weld, plate, connection detail, etc.

# EXHIBIT 4



May 28, 2020





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

RE: Site Number: CT1089 (BWE, LTE 3C, RETRO, 5G NR)

 FA Number:
 10035378

 PACE Number:
 MRCTB047122

 PT Number:
 2051A0V8ME

Site Name: WILLINGTON TPKE RD
Site Address: 47 Turnpike Road
Willington, CT 06279

# 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)
- (6) LGP21401 TMA's (14.4"x9.0"x2.7" Wt. = 19 lbs. /each)
- (1) Squid Surge Arrestor (24.0"x9.7" Φ Wt. = 33 lbs. /each) (Tower Mount)
- (3) HPA65R-BU6A Antennas (71.1"x11.7"x7.6" Wt. = 42 lbs. /each)
- (3) OPA65R-BU6BA Antennas (71.1"x11.7"x8.4" Wt. = 58 lbs. /each)
- (3) DMP65R-BU6DA Antennas (71.2"x20.7"x7.7" Wt. = 80 lbs. /each)
- (3) RRUS-32 B2 RRH's (27.2"x12.1"x7.0" Wt. = 60 lbs. /each)
- (3) B5/B12 4449 RRH's (17.9"x13.2"x9.5" Wt. = 71 lbs. /each)
- (3) B2/B66A 8843 RRH's (14.9"x13.2"x10.9" Wt. = 72 lbs. /each)
- (2) Squid Surge Arrestor (24.0"x9.7" Φ Wt. = 33 lbs. /each)

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 April 07, 2020.

<sup>\*</sup>Proposed equipment shown in bold

# 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 125 mph with a max basic wind speed with ice of 50
  mph and a max ice thickness of 1.5 in. An escalated ice thickness of 1.77 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 1; tower is located on flat terrain or the bottom of a hill or ridge.
- 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 4.
- 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 monopole with ring mount. 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 pipe masts (typ. of 1 per sector, total of 3).
- Install new sector frame stabilizer, SitePro1 P/N PRK-SFS-L (or approved equal) secured to new horizontal pipe and tower (total of 1).

	Component	Controlling Load Case	Stress Ratio	Pass/Fail
Existing (BWE, LTE 3C, RETRO, 5G NR) Mount Rating	1	LC31	139%	FAIL
Modified (BWE, LTE 3C, RETRO, 5G NR) Mount Rating	2	LC14	97%	PASS

# **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

Inland a

Michael Cabral Vice President Daniel P. Hamm, PE Principal

# EXHIBIT 5



# Radio Frequency Emissions Analysis Report

# AT&T

Site Name: Willington TPKE RD

47 Turnpike Road Wilmington, CT 06279

June 4, 2020

Site Compliance Summary				
Compliance Status:	Compliant			
AT&T total MPE% of FCC general population allowable limit:	0.02793%			
Site total MPE% of FCC general population allowable limit:	0.08054%			



June 4, 2020

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

Emissions Analysis for Site: Willington TPKE RD

Centerline Communications, LLC ("Centerline") was directed to analyze the proposed AT&T facility to be located on a **monopole** near **47 Turnpike Road, Wilmington CT 06279** 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 97-01and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ( $\mu$ W/cm2). The number of  $\mu$ W/cm² 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 ( $\mu$ W/cm<sup>2</sup>). The general population exposure limits for the 700 MHz (LTE) bands is 467  $\mu$ W/cm<sup>2</sup>; for the 850 MHz (UMTS), 850 MHz (LTE), and 850 MHz (5G) bands is 567  $\mu$ W/cm<sup>2</sup>; and for the 1900 MHz (LTE) and 2100 MHz (LTE) bands is 1000  $\mu$ W/cm<sup>2</sup>.



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<sup>TM</sup> 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	UMTS	850	2	20
2	LTE	1900	4	40
3	LTE	1900	4	40
3	LTE	2100	4	40
4	LTE	700	1	40
4	LTE	850	1	40
4	5G	850	2	40

Table 1: Channel Data Table



The following antennas listed in *Table 2* were used in the modeling for transmission in the 700 MHz (LTE), 850 MHz (UMTS), 850 MHz (LTE), 850 MHz (5G), 1900 MHz (LTE), and 2100 MHz (LTE) frequency bands. This is based on information from the carrier with regard to anticipated antenna selection.

	Antenna		Antenna Centerline
Sector	Number	Antenna Make / Model	(ft)
A	1	Powerwave 7770	169.5
A	2	CCI HPA65R-BU6A	169.5
A	3	CCI OPA65R-BU6B	169.5
A	4	CCI DMP65R-BU6D	169.5
A	4	CCI DMP65R-BU6D	169.5
A	4	CCI DMP65R-BU6D	169.5
A	4	CCI DMP65R-BU6D	169.5
В	5	Powerwave 7770	169.5
В	6	CCI HPA65R-BU6A	169.5
В	7	CCI OPA65R-BU6B	169.5
В	8	CCI DMP65R-BU6D	169.5
В	8	CCI DMP65R-BU6D	169.5
В	8	CCI DMP65R-BU6D	169.5
В	8	CCI DMP65R-BU6D	169.5
C	9	Powerwave 7770	169.5
C	10	CCI HPA65R-BU6A	169.5
C	11	CCI OPA65R-BU6B	169.5
C	12	CCI DMP65R-BU6D	169.5
C	12	CCI DMP65R-BU6D	169.5
C	12	CCI DMP65R-BU6D	169.5
C	12	CCI DMP65R-BU6D	169.5

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	Powerwave 7770	850	11.35	169.50	2	40	545.83	0.001126399
					4			
Antenna A2	CCI HPA65R-BU6A	1900	15.85	169.50	4	160	6153.47	0.004413884
Antenna A3	CCI OPA65R-BU6B	2100	15.85	169.50	4	160	6153.47	0.007007311
Antenna A4	CCI DMP65R-BU6D	700	11.75	169.50	1	40	598.49	0.002849540
Antenna A4	CCI DMP65R-BU6D	850	11.45	169.50	1	40	558.55	0.002561239
Antenna A4	CCI DMP65R-BU6D	850	11.45	169.50	2	80	1117.09	0.005117895
Antenna A4	CCI DMP65R-BU6D	1900	14.95	169.50	4	160	5001.73	0.004827075
Antenna B1	Powerwave 7770	850	11.35	169.50	2	40	545.83	0.000002751
Antenna B2	CCI HPA65R-BU6A	1900	15.35	169.50	4	160	5484.28	0.000000875
Antenna B3	CCI OPA65R-BU6B	2100	15.85	169.50	4	160	6153.47	0.000000808
Antenna B4	CCI DMP65R-BU6D	700	11.75	169.50	1	40	598.49	0.000000982
Antenna B4	CCI DMP65R-BU6D	850	11.45	169.50	1	40	558.55	0.000002430
Antenna B4	CCI DMP65R-BU6D	850	11.45	169.50	2	80	1117.09	0.000004856
Antenna B4	CCI DMP65R-BU6D	1900	14.35	169.50	4	160	4356.32	0.000004848
Antenna C1	Powerwave 7770	850	11.35	169.50	2	40	545.83	0.000005130
Antenna C2	CCI HPA65R-BU6A	1900	15.85	169.50	4	160	6153.47	0.000001582
Antenna C3	CCI OPA65R-BU6B	2100	15.85	169.50	4	160	6153.47	0.000000429
Antenna C4	CCI DMP65R-BU6D	700	11.75	169.50	1	40	598.49	0.000001971
Antenna C4	CCI DMP65R-BU6D	850	11.45	169.50	1	40	558.55	0.000000495
Antenna C4	CCI DMP65R-BU6D	850	11.45	169.50	2	80	1117.09	0.000000989
Antenna C4	CCI DMP65R-BU6D	1900	14.95	169.50	4	160	5001.73	0.000001484
	AT&T Contribution MPE%					0.027933 %		

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 (□W/cm²)	Technology	Allowable MPE (□W/cm²)	Calculated % MPE
850	2	272.9166	169.50	0.006382929	UMTS	567	0.001126399
1900	4	1538.367	169.50	0.044138840	LTE	1000	0.004413884
2100	4	1538.367	169.50	0.070073110	LTE	1000	0.007007311
700	1	598.4943	169.50	0.013297852	LTE	467	0.002849540
850	1	558.5473	169.50	0.014513686	LTE	567	0.002561239
850	2	558.5473	169.50	0.029001408	5G	567	0.005117895
1900	4	1250.432	169.50	0.048270748	LTE	1000	0.004827075
850	2	272.9166	169.50	0.000015588	UMTS	567	0.000002751
1900	4	1371.071	169.50	0.000008754	LTE	1000	0.000000875
2100	4	1538.367	169.50	0.000008079	LTE	1000	0.000000808
700	1	598.4943	169.50	0.000004581	LTE	467	0.000000982
850	1	558.5473	169.50	0.000013771	LTE	567	0.000002430
850	2	558.5473	169.50	0.000027517	5G	567	0.000004856
1900	4	1089.081	169.50	0.000048477	LTE	1000	0.000004848
850	2	272.9166	169.50	0.000029069	UMTS	567	0.000005130
1900	4	1538.367	169.50	0.000015817	LTE	1000	0.000001582
2100	4	1538.367	169.50	0.000004289	LTE	1000	0.000000429
700	1	598.4943	169.50	0.000009198	LTE	467	0.000001971
850	1	558.5473	169.50	0.000002803	LTE	567	0.000000495
850	2	558.5473	169.50	0.000005602	5G	567	0.000000989
1900	4	1250.432	169.50	0.000014841	LTE	1000	0.000001484
						AT&T	0.027933%

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:	0.027933%
Other Carrier Contribution:	0.05261%
Site Total:	0.08054%
Site Compliance Status:	Compliant

The anticipated composite MPE value for this site assuming all carriers present is **0.08054%** 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.

Erin Kavanaugh

RF EME Technical Writer

**Centerline Communications, LLC** 

hi Thefo

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

# EXHIBIT 6





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

Romina Kirchmaier Smartlink 85 Rangeway Road Building #3, Suite 102 North Billerica, MA 01862-2105

RE: EM-AT&T-160-170317 - AT&T notice of intent to modify an existing telecommunications facility located at 47 Turnpike Road, Willington, Connecticut.

Dear Ms. Kirchmaier:

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 with the following conditions:

- 1. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
- 2. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- 3. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- 4. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by AT&T shall be removed within 60 days of the date the antenna ceased to function;
- 5. The validity of this action shall expire one year from the date of this letter; and
- 6. The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated March 10, 2017. 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 by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut 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. Thank you for your attention and cooperation.

Very truly yours,

Melanie A. Bachman Executive Director

MAB/RDM/bm

c: The Honorable Christina Beebe Mailhos, First Selectman, Town of Willington Susan Yorgensen, Planning-Zoning/Wetlands Agent, Town of Willington Cordless Data Transfer Inc., Tower Owner William R. & Hazel M. Barber, Property Owners

# EXHIBIT 7

### UPS CampusShip: 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(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 CampusShip and select UPS Locations.

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

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THE UPS STORE
8417 OSWEGO RD
BALDWINSVILLE ,NY 13027

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

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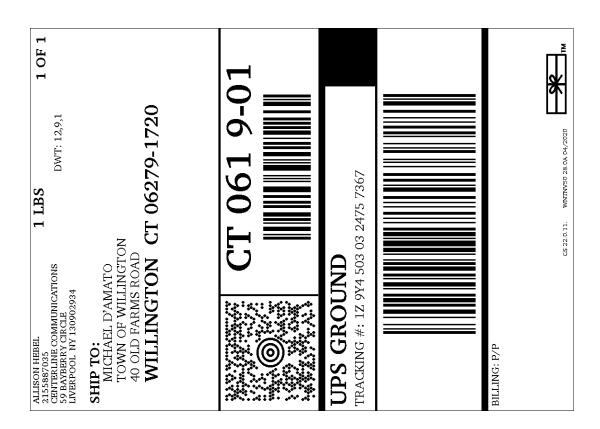
Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please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

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