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215.588.7035

February 11, 2021

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

Re: Notice of Exempt Modifications – AT&T Site CT1139
AT&T Telecommunications Facility @ 151 Sand Hill Road South Windsor, CT 06074

Dear Ms. Bachman,

New Cingular Wireless, PCS, LLC (“AT&T”) currently maintains a wireless telecommunications facility on an existing +/- 199’ monopole tower at the above referenced address, latitude 41.8359912, longitude -72.5519989. Said monopole tower is owned by SBA.

AT&T desires to modify its existing telecommunications facility by replacing (3) antennas, replacing (6) RRUs, adding (6) RRUs – (3) which will be located in the equipment shelter within the equipment lease space as more particularly detailed and described on the enclosed Construction Drawings prepared by Centerline Communications last revised on January 25, 2021. 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: Michael Maniscalco Town Manager of the Town of South Windsor, and as property: Michele Lipe Director of Planning of Town of South Windsor; and George O’Neil Project Manager of SBA 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 alteration in the physical or environmental characteristics of the site.

6. The existing structure and its foundation can support the proposed loading. Please see the structural analysis dated February 9, 2021 and prepared Tower Engineering Services 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 South Windsor Original Tower Approval Records
 Exhibit 7 – Notice Deliver Confirmations

Cc: Michael Maniscalco Town Manager of the Town of South Windsor, and as property owner
 Michele Lipe Director of Planning of Town of South Windsor
 George O’Neil Project Manager of SBA, as tower owner

EXHIBIT 1

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR - CENTERLINE COMMUNICATIONS
 SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
 OWNER - AT&T MOBILITY

2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED 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 ($F_y = 36$ ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E ($F_y = 36$ 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 MOBILITY 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 & CONNECTICUT STATE BUILDING CODE 2018
 ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE
 LIGHTING 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

ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

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

RF NOTES

1. ACTUAL LENGTHS SHALL BE DETERMINED PER SITE CONDITION BY SUBCONTRACTOR

2. THE DESIGN IS BASED ON RF DATA SHEETS, SIGNED AND APPROVED.

3. RADIO SIGNAL CABLE AND RACEWAY SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC, NFPA 70), CHAPTER 8.

4. ALL SPECIFIED MATERIAL FOR EACH LOCATION (E.G. OUT DOORS- OCCUPIED, INDOORS-UNOCCUPIED, PLENUMS, RISER SHAFTS, ETC.) SHALL BE APPROVED, LISTED, OR LABELED AS REQUIRED BY THE NEC.

5. RADIO SIGNAL CABLE SHALL BE SUPPORTED AT MINIMUM OF EVERY THREE (3) FEET EXCEPT INSIDE MONOPOLES OR MONOPOLES WHERE CABLE AND CONNECTOR MANUFACTURERS SUPPORT RECOMMENDATIONS SHALL BE FOLLOWED. MANUFACTURER RECOMMENDATION CABLES SUPPORT ACCESSORIES SHALL BE USED.

6. THE OUTDOOR CABLE SUPPORT SYSTEM SHALL BE PROVIDED WITH AN ICE SHIELD TO SUPPORT AND PROTECT ANTENNA CABLE RUNS.

7. DRIP LOOPS SHALL BE REQUIRED ON ALL OUTSIDE CABLES. CABLES SHALL BE SLOPED AWAY FROM BUILDING OR OUTDOOR BTS CABINETS TO PREVENT WATER FROM ENTERING THROUGH THE COAXIAL CABLE PORT.

8. ALL FEEDER LINE AND JUMPER CONNECTORS SHALL BE 7/16 DIN CABLE CONNECTORS THAT MEET IP68 STANDARDS.

9. 7/16 DIN CONNECTORS REQUIRE NO ADDITIONAL WEATHER PROOFING IN INDOOR APPLICATIONS IF INSTALLED AND TORQUED PROPERLY. IN OUTDOOR APPLICATIONS WEATHER PROOFING IS REQUIRED AND THE FOLLOWING PROCEDURE SHOULD BE FOLLOWED.

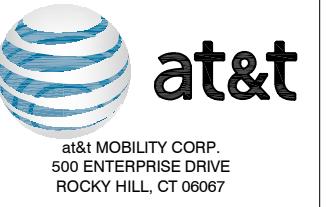
10. USING WEATHERPROOFING KIT APPROVED BY CABLE MANUFACTURER AND CONTRACTOR START TAPE APPROXIMATELY 5 INCHES FROM THE CONNECTOR, AND WRAP 2 INCHES TOWARD THE CONNECTOR, THEN REVERSE THE TAPE SO THAT THE STICKY SIDE IS UP. TAPE OVER THE CONNECTOR OR SURGE ARRESTOR UNTIL THREE (3) TO FOUR (4) INCHES BEYOND THE CONNECTOR AND REVERSE AGAIN WITH THE STICKY SIDE DOWN FOR ANOTHER INCH OR TWO. PASS THE BUTYL RUBBER AND FINISH WITH A FINAL LAYER OF TAPE.

11. ANTENNAS SHALL BE PAINTED, WHEN REQUIRED, BY THE LANDLORD OR AUTHORITY OF HAVING JURISDICTION IN ACCORDANCE WITH ANTENNA MANUFACTURERS' SURFACES PREPARATION AND PAINTING REQUIREMENTS.

12. CABLE SHIELDS AND TOWER CONDUITS SHALL BE GROUNDED AT THE TOP OF THE TOWER WITHIN 10 FEET OF THEIR CONNECTORS, AND AT THE BOTTOM OF THE TOWER ABOUT 6 INCHES BEFORE THEY TURN TOWARD THE FACILITY. THEY SHALL BE GROUNDED AT THE MIDPOINT OF THE TOWERS THAT ARE BETWEEN 60 FEET AND 200 FEET HIGH, AND AT INTERVALS OF 60 FEET OR LESS ON TOWERS THAT ARE HIGHER THAN 200 FEET.

ANTENNA CABLE AND SCHEDULING NOTES

1. SUBCONTRACTOR SHALL VERIFY THE ACTUAL LENGTH IN THE FIELD BEFORE INSTALLATION.
2. TAG AND COLOR CODE ALL MAIN CABLES AT LOCATIONS PER AT&T ANTENNA CABLE MARKING STANDARD:
 - TOP OF TOWER END OF MAIN COAX
 - BOTTOM OF TOWER END OF MAIN COAX
 - DIRECTLY BEFORE AND AFTER RF EQUIPMENT
 - END OF JUMPERS AT BTS EQUIPMENT
3. ANTENNAS SHALL BE PROCURED AND INSTALLED WITH DOWN TILT MOUNTING BRACKETS SUPPLIED BY ANTENNA MANUFACTURER.
4. PRIOR APPROVAL IS REQUIRED BEFORE PERFORMING ANY WORK ON EXISTING CELL SITE EQUIPMENT.



REVISIONS

NO.	DATE	DESCRIPTION
1	01/25/21	ISSUED FOR CONSTRUCTION
0	12/18/20	ISSUED FOR REVIEW

DESIGNED BY: BPC APPROVED BY: DC



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SITE NAME:	SOUTH WINDSOR SAND HILL RD	
SITE NUMBER:	CT1139	
SITE ADDRESS:	151 SAND HILL ROAD SOUTH WINDSOR, CT 06074	
PROJECT TYPE:	LTE 4C, 5C, 6C, 5G NR, RETRO & BWE	
SHEET TITLE:	GENERAL NOTES	
DRAWING #:	GN-1	REVISION: 1

ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	G.C.	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
AWG	AMERICAN WIRE GAUGE	MGB	MASTER GROUND BUS		
BCW	BARE COPPER WIRE	MIN	MINIMUM	TBD	TO BE DETERMINED
BTS	BASE TRANSEIVER STATION	PROPOSED	NEW	TBR	TO BE REMOVED
EXISTING	EXISTING	N.T.S.	NOT TO SCALE	TBRR	TO BE REMOVED AND REPLACED
EG	EQUIPMENT GROUND	REF	REFERENCE	TYP	TYPICAL
EGR	EQUIPMENT GROUND RING	REQ	REQUIRED		

NOTES:

1. REFERENCE STRUCTURAL ANALYSIS BY OTHERS FOR FURTHER INFORMATION REGARDING THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THIS EQUIPMENT UPGRADE.
2. REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.



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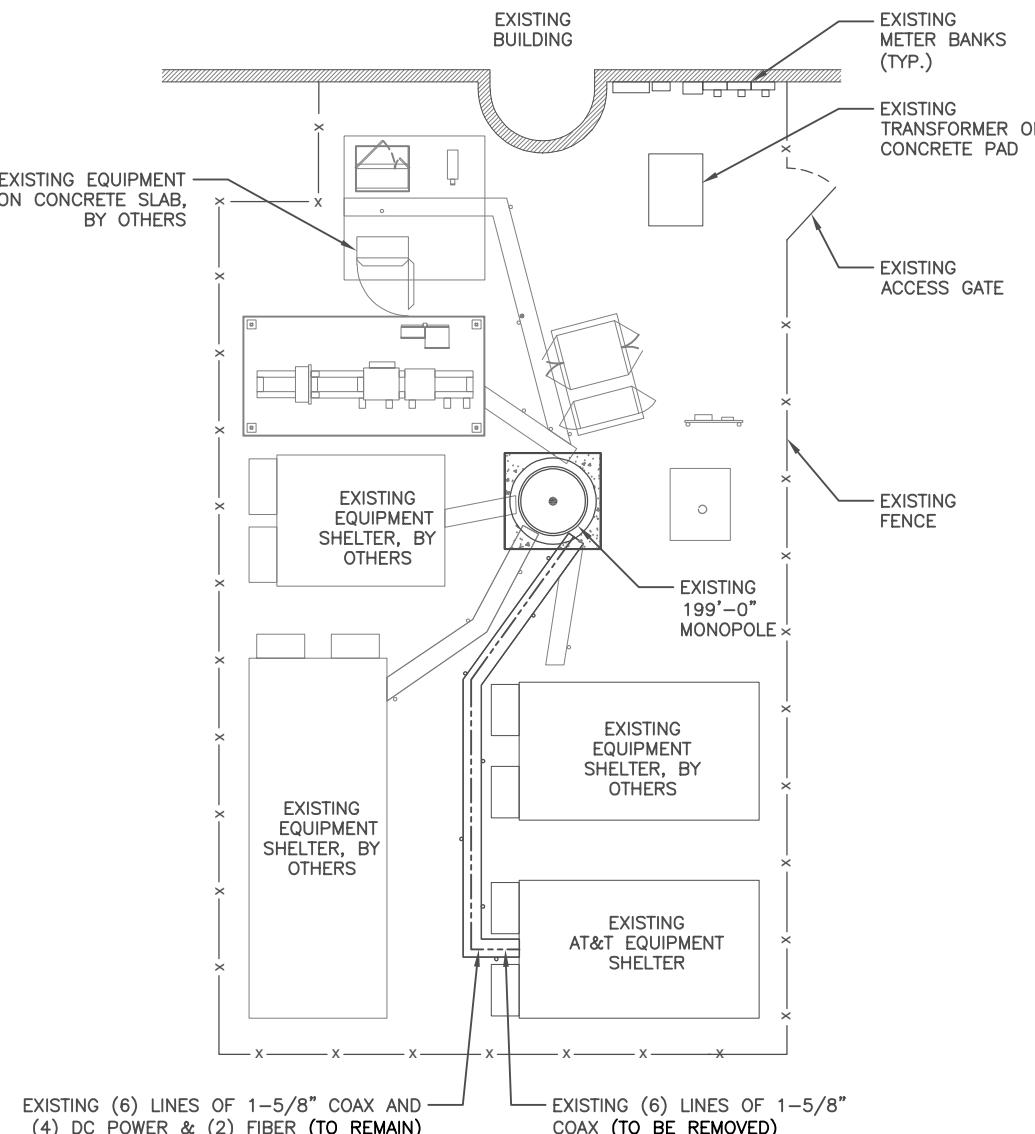
SITE NUMBER: CT1139

SITE ADDRESS: 151 SAND HILL ROAD
SOUTH WINDSOR, CT 06074

PROJECT TYPE: LTE 4C, 5C, 6C, 5G NR, RETRO & BWE

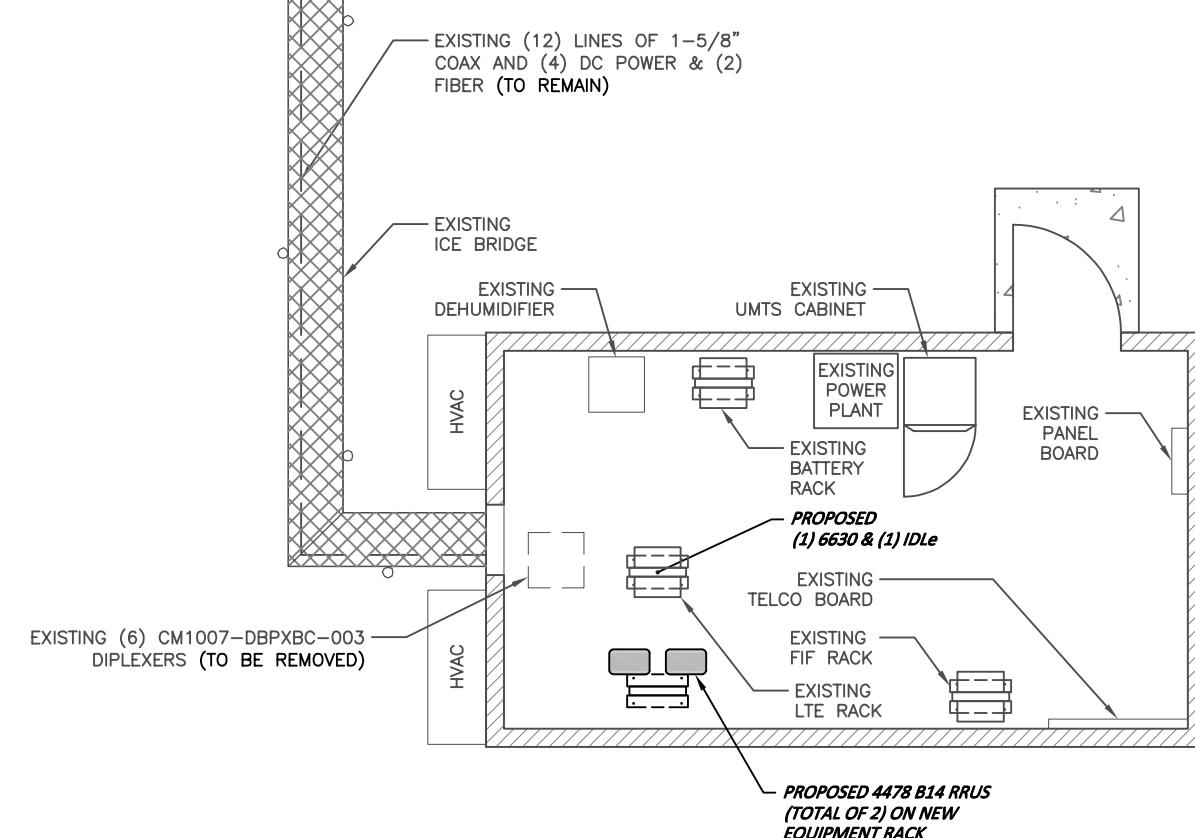
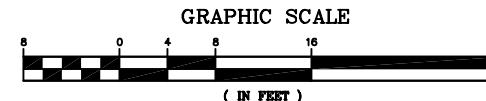
SHEET TITLE: COMPOUND & EQUIPMENT PLANS

DRAWING #: A-1 REVISION: 1



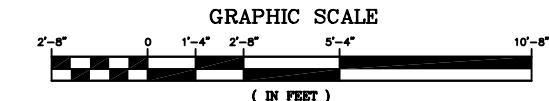
COMPOUND PLAN

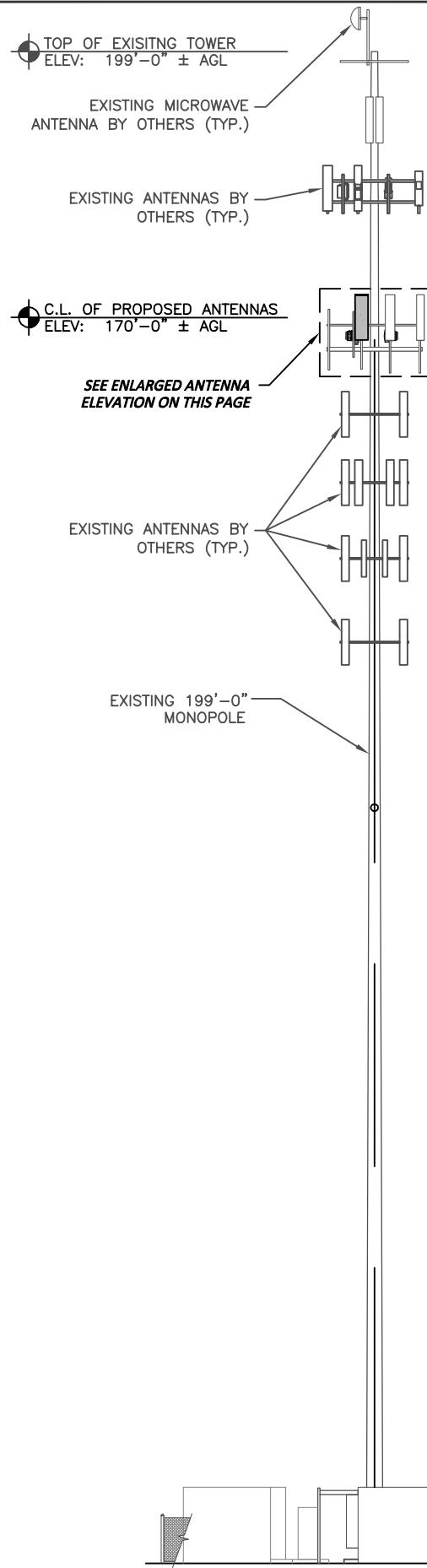
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1/16" = 1'-0" (11"X17")



EQUIPMENT PLAN

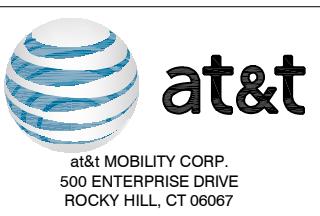
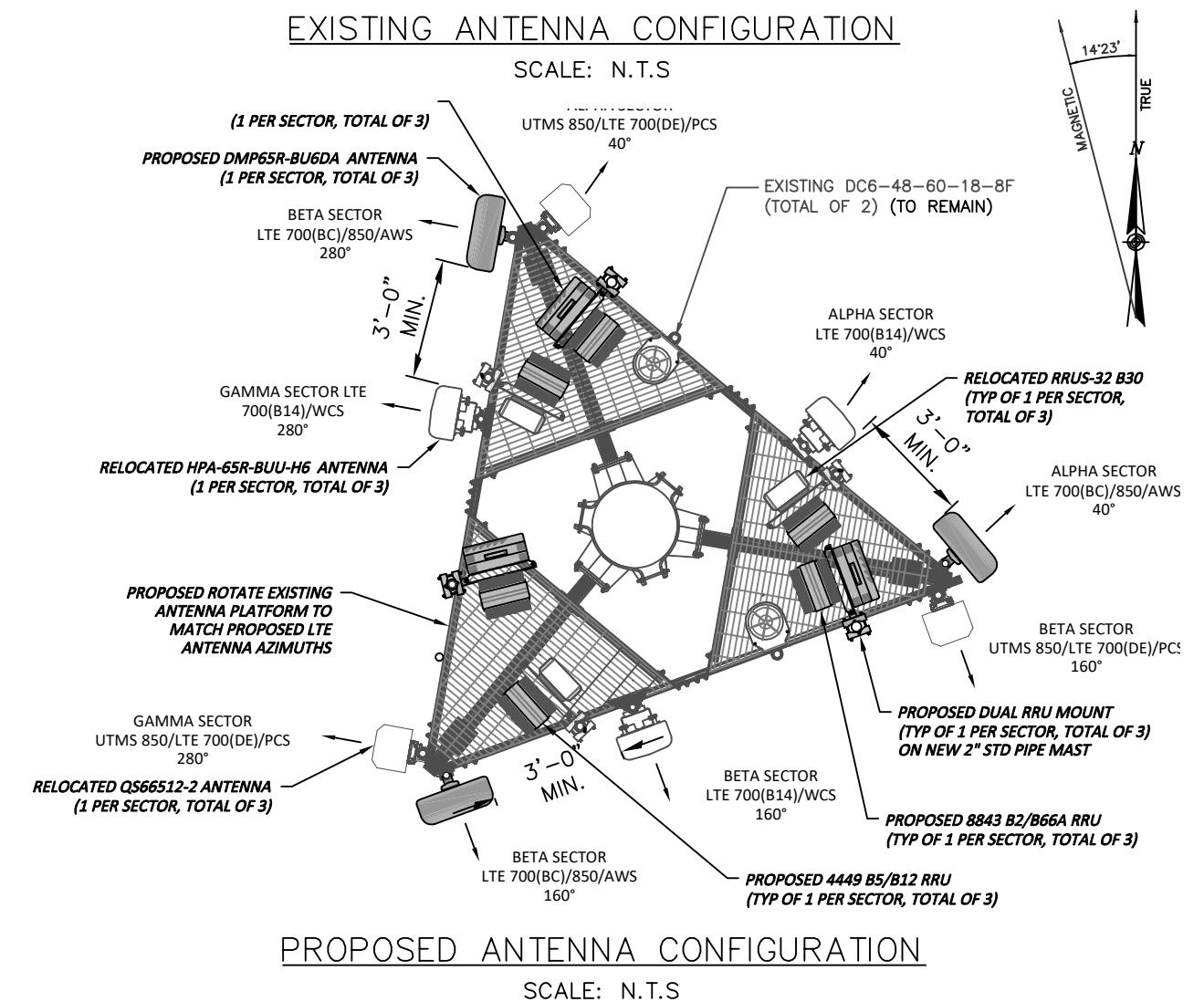
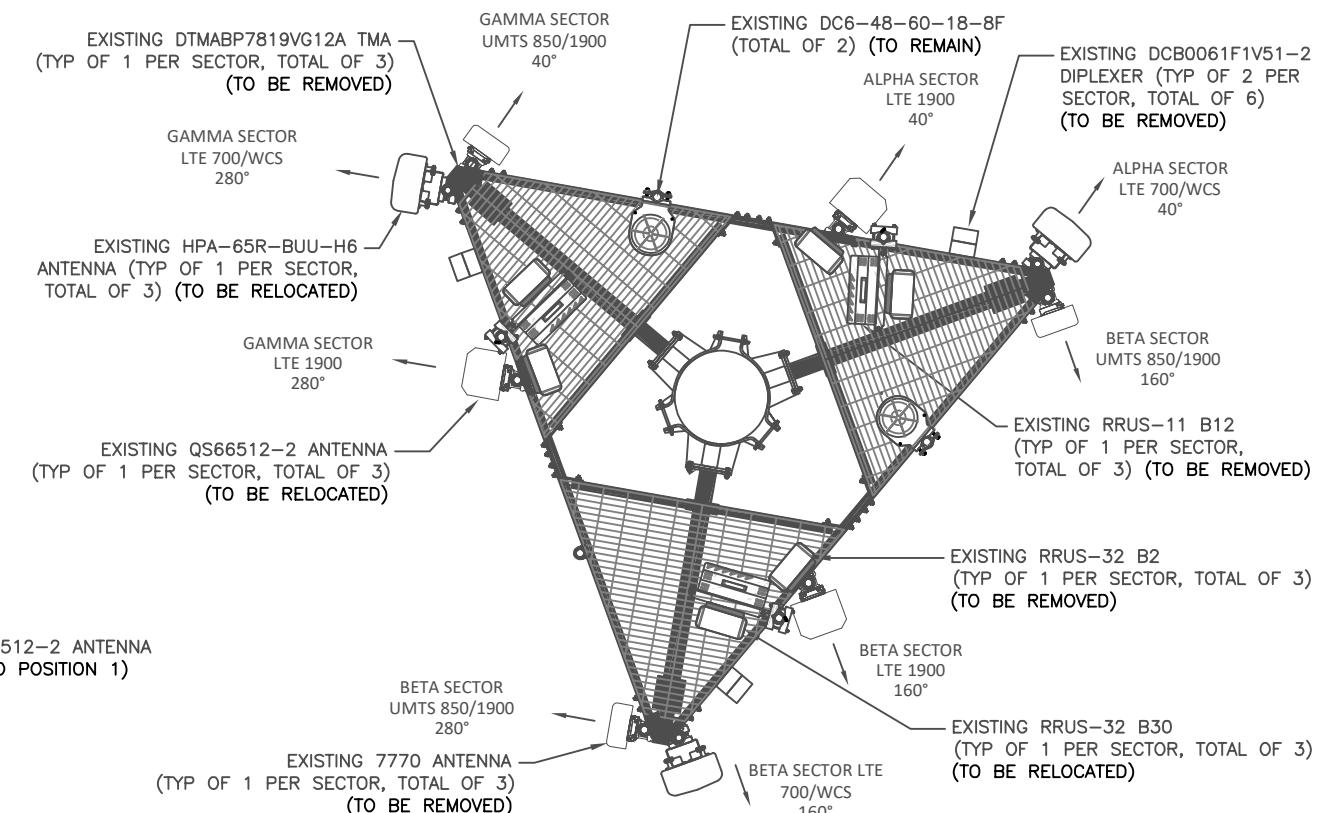
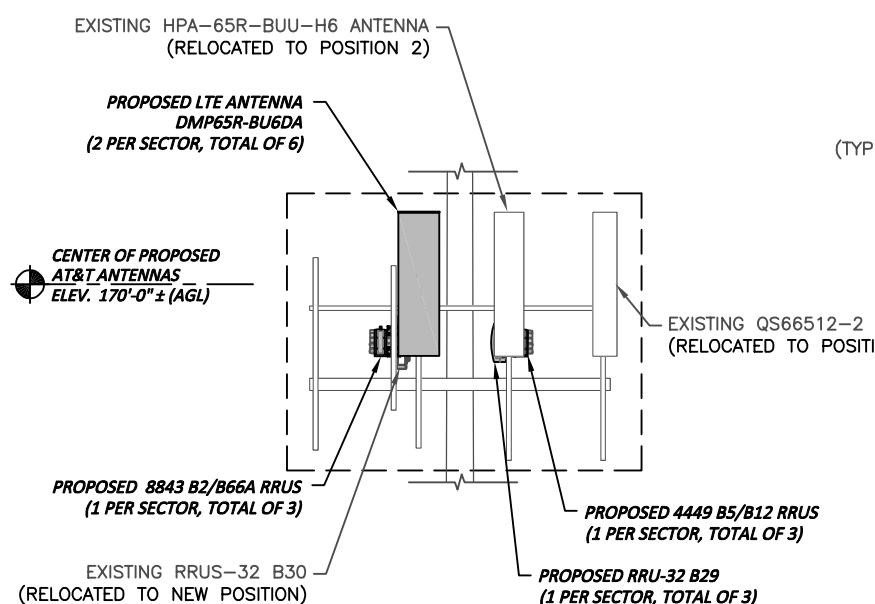
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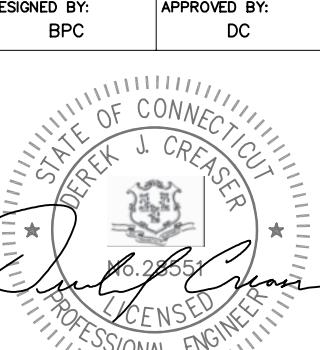


NOTES:

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2. REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.



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SITE ADDRESS:	151 SAND HILL ROAD SOUTH WINDSOR, CT 06074	
PROJECT TYPE:	LTE 4C, 5C, 6C, 5G NR, RETRO & BWE	
SHEET TITLE:	ANTENNA LAYOUT & ELEVATIONS	
DRAWING #:	A-2	REVISION: 1

ANTENNA SCHEDULE											
SECTOR	EXISTING/PROPOSED	BAND	ANTENNA	SIZE (INCHES) (L x W x D)	ANTENNA Q HEIGHT	AZIMUTH	TMA/ DIPLEXER	RRU	SIZE (INCHES) (L x W x D)	FEEDER	RAYCAP
A1	EXISTING	UMTS 850 /LTE 700(DE)/PCS	QS66512-2	72X12X9.6	±170'	40°	–	(P) (1) RRUS-E2 B29 (P) (1) 8843 B2/B66A RRUS	20.4x18.5x7.5 14.9x13.2x10.9	(2) 1-5/8 COAX (215'± LENGTH)	(E) (2) RAYCAP DC6-48-60-18-8F
A2	EXISTING	LTE 700(B14)/WCS	HPA-65R-BUU-H6	72X14.8X9	±170'	40°	–	(P) (1) 4478 B14 RRUS (GROUND) (E) (1) RRUS-32 B30	18.1x13.4x8.26 26.7x12.1x6.7	–	
A3	PROPOSED	LTE 700(BC)/850/AWS	OPA65R-BU6DA	71.2X20.7X7.7	±170'	40°	–	(P) (1) 4449 B5/B12 RRUS	15x13.2x10.4	(E) (4) DC POWER & (2) FIBER	(E) (2) RAYCAP DC6-48-60-18-8F
B1	EXISTING	UMTS 850 /LTE 700(DE)/PCS	QS66512-2	72X12X9.6	±170'	160°	–	(P) (1) RRUS-E2 B29 (P) (1) 8843 B2/B66A RRUS	20.4x18.5x7.5 14.9x13.2x10.9	(2) 1-5/8 COAX (215'± LENGTH)	
B2	EXISTING	LTE 700(B14)/WCS	HPA-65R-BUU-H6	72X14.8X9	±170'	160°	–	(P) (1) 4478 B14 RRUS (GROUND) (E) (1) RRUS-32 B30	18.1x13.4x8.26 26.7x12.1x6.7	–	
B3	PROPOSED	LTE 700(BC)/850/AWS	OPA65R-BU6DA	71.2X20.7X7.7	±170'	160°	–	(P) (1) 4449 B5/B12 RRUS	15x13.2x10.4	–	
C1	EXISTING	UMTS 850 /LTE 700(DE)/PCS	QS66512-2	72X12X9.6	±170'	280°	–	(P) (1) RRUS-E2 B29 (P) (1) 8843 B2/B66A RRUS	20.4x18.5x7.5 14.9x13.2x10.9	(2) 1-5/8 COAX (215'± LENGTH)	–
C2	EXISTING	LTE 700(B14)/WCS	HPA-65R-BUU-H6	72X14.8X9	±170'	280°	–	SHARED 4478 B14 RRUS (E) (1) RRUS-32 B30	26.7x12.1x6.7	–	
C3	PROPOSED	LTE 700(BC)/850/AWS	OPA65R-BU6DA	71.2X20.7X7.7	±170'	280°	–	(P) (1) 4449 B5/B12 RRUS	15x13.2x10.4	–	–



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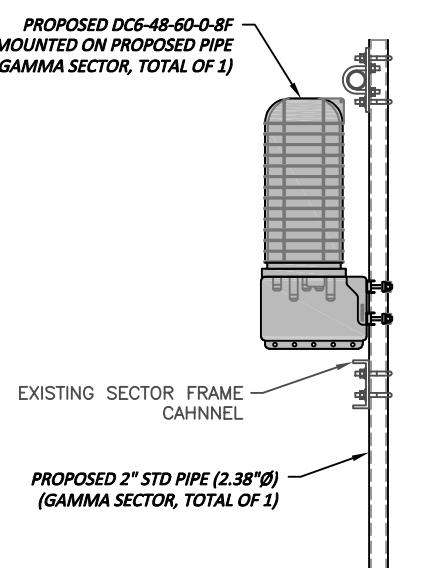
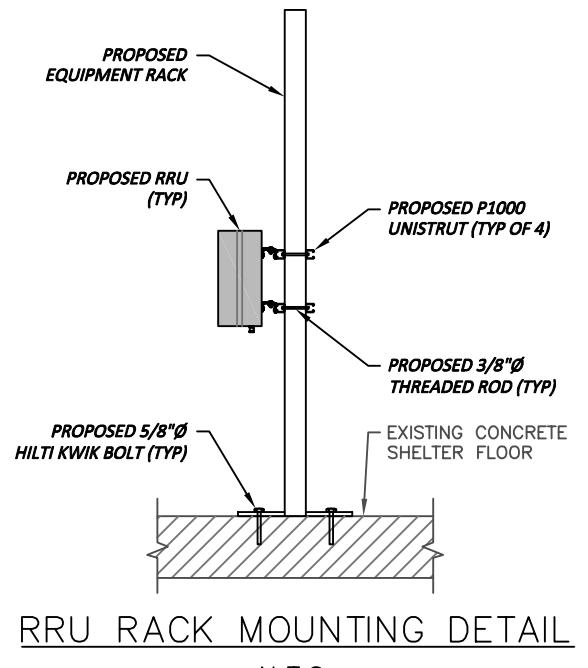


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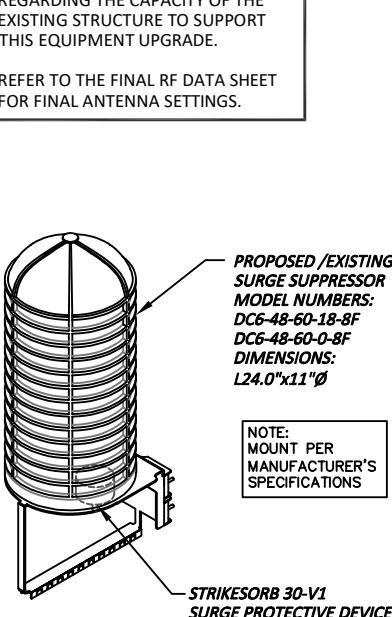


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SITE NUMBER: CT1139
SITE ADDRESS: 151 SAND HILL ROAD
SOUTH WINDSOR, CT 06074
PROJECT TYPE: LTE 4C, 5C, 6C, 5G NR, RETRO & BWE

SHEET TITLE: DETAILS
DRAWING #: A-3 REVISION: 1



DC SURGE
SUPPRESSOR MOUNT DETAIL
N.T.S.

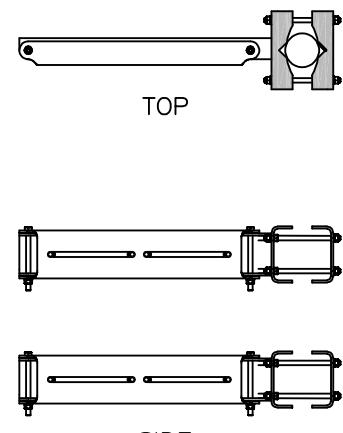


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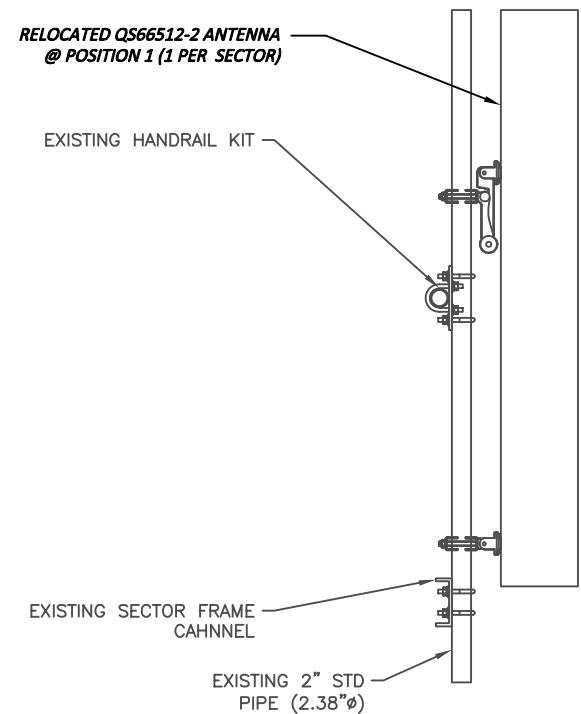
NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.



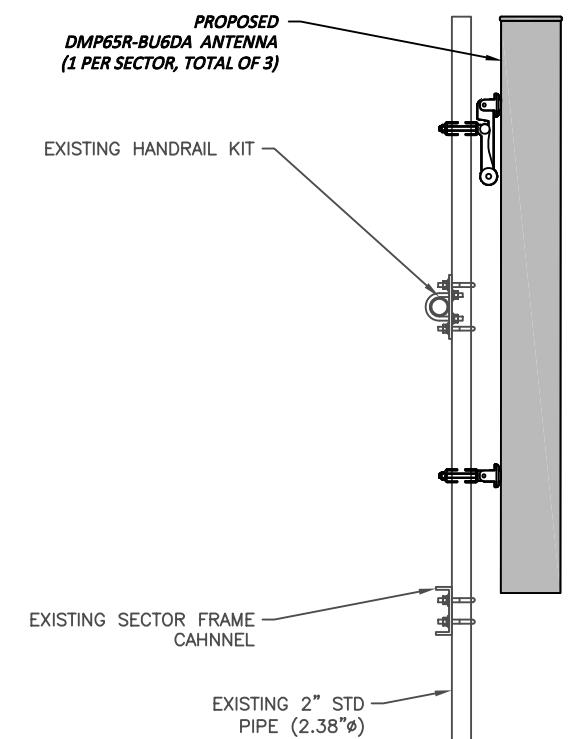
RRU DETAIL
N.T.S.



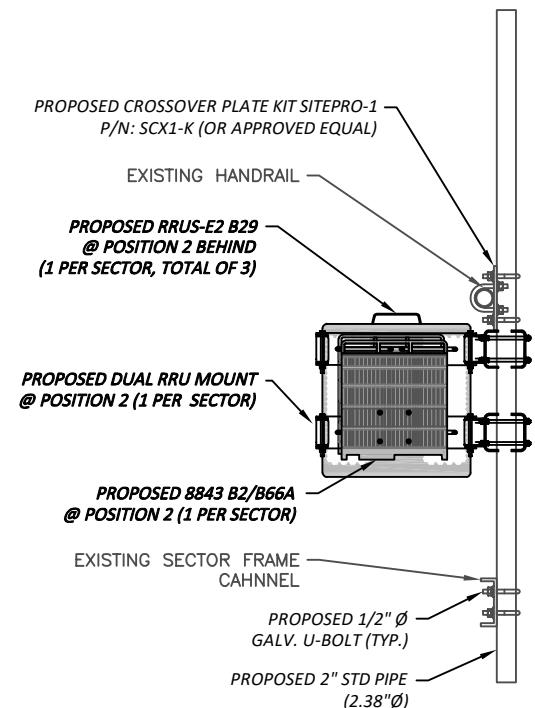
DUAL RRU
MOUNT DETAIL
N.T.S.



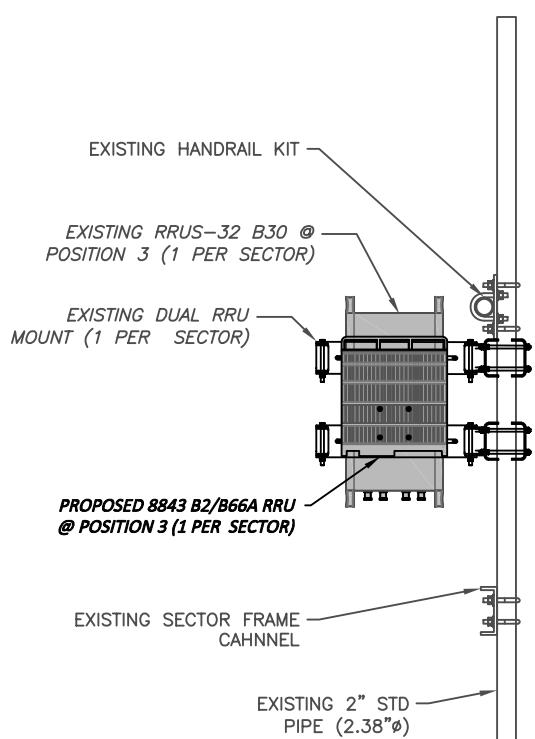
ANTENNA MOUNTING DETAIL
N.T.S.



ANTENNA MOUNTING DETAIL
N.T.S.



RRU MOUNTING DETAIL
N.T.S.



RRU MOUNTING DETAIL
N.T.S.



REVISIONS	
1	01/25/21 ISSUED FOR CONSTRUCTION
0	12/18/20 ISSUED FOR REVIEW

NO. DATE DESCRIPTION

DESIGNED BY: BPC APPROVED BY: DC



IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECT OF A LICENSED PROFESSIONAL ENGINEER TO ALTER, MODIFY, UNDERRATE, OR EXALTA THE DRAWINGS. BY SIGNING THIS WRITING, THE ENGINEER DISCLAIMS ALL LIABILITY ASSOCIATED WITH THE REUSE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREIN.



SITE NAME: SOUTH WINDSOR SAND HILL RD

SITE NUMBER: CT1139

SITE ADDRESS: 151 SAND HILL ROAD, SOUTH WINDSOR, CT 06074

PROJECT TYPE: LTE 4C, 5C, 6C, 5G NR, RETRO & BWE

SHEET TITLE: DETAILS

DRAWING #: A-4 REVISION: 1

STRUCTURAL NOTES:

1. DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, INTERNATIONAL BUILDING CODE, EIA/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA, TOWERS AND ANTENNA SUPPORTING STRUCTURES.
2. 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.
3. 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".
4. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 (Fy=50 ksi), MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE INDICATED.
5. STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
6. STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 TYPE-X "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 3/4" DIA UNO.
7. 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.
8. 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.
9. 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.
10. CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND D.I. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "STEEL CONSTRUCTION MANUAL". 14TH EDITION.
11. 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.
12. 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.
13. EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS, AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-270 AND OR HY-200 SYSTEMS (AS SPECIFIED IN DWG.) OR ENGINEERS APPROVED EQUAL.
14. 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.
16. 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 STRONGWELL COMPANY OF BRISTOL, VA 24203. ALL DESIGN CRITERIA FOR THESE MEMBERS IS BASED ON INFORMATION PROVIDED IN THE DESIGN MANUAL. ALL REQUIREMENTS PUBLISHED IN SAID MANUAL MUST BE STRICTLY ADHERED TO.
18. 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.

SPECIAL INSPECTION CHECKLIST	
BEFORE CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
N/A	ENGINEER OF RECORD APPROVED SHOP DRAWINGS ¹
N/A	MATERIAL SPECIFICATIONS REPORT ²
N/A	FABRICATOR NDE INSPECTION
N/A	PACKING SLIPS ³
ADDITIONAL TESTING AND INSPECTIONS:	
DURING CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	STEEL INSPECTIONS
N/A	HIGH STRENGTH BOLT INSPECTIONS
N/A	HIGH WIND ZONE INSPECTIONS ⁴
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH, SLOM TESTS AND PLACEMENT
N/A	POST INSTALLED ANCHOR VERIFICATION ⁵
N/A	GROUT VERIFICATION
N/A	CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
N/A	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT
ADDITIONAL TESTING AND INSPECTIONS:	
AFTER CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS ⁶
N/A	POST INSTALLED ANCHOR PULL-OUT TESTING
REQUIRED	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

NOTES:

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

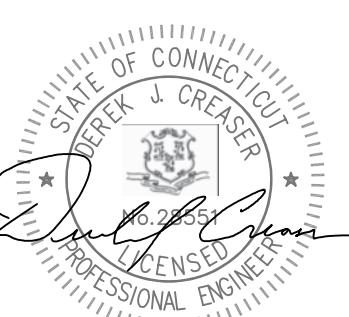
NOTES:

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



REVISIONS		
1	01/25/21	ISSUED FOR CONSTRUCTION
0	12/18/20	ISSUED FOR REVIEW
NO.	DATE	DESCRIPTION

DESIGNED BY: BPC APPROVED BY: DC

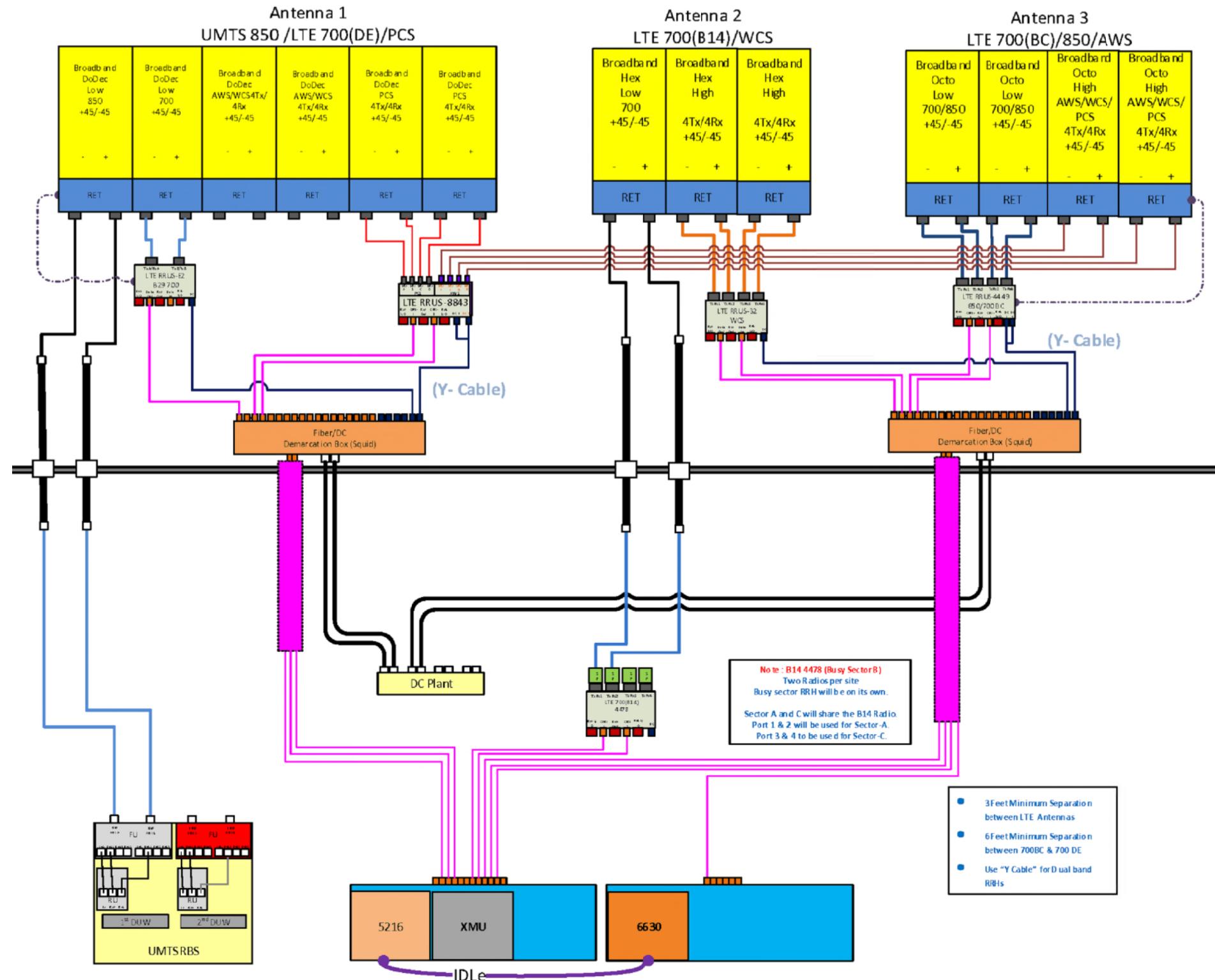


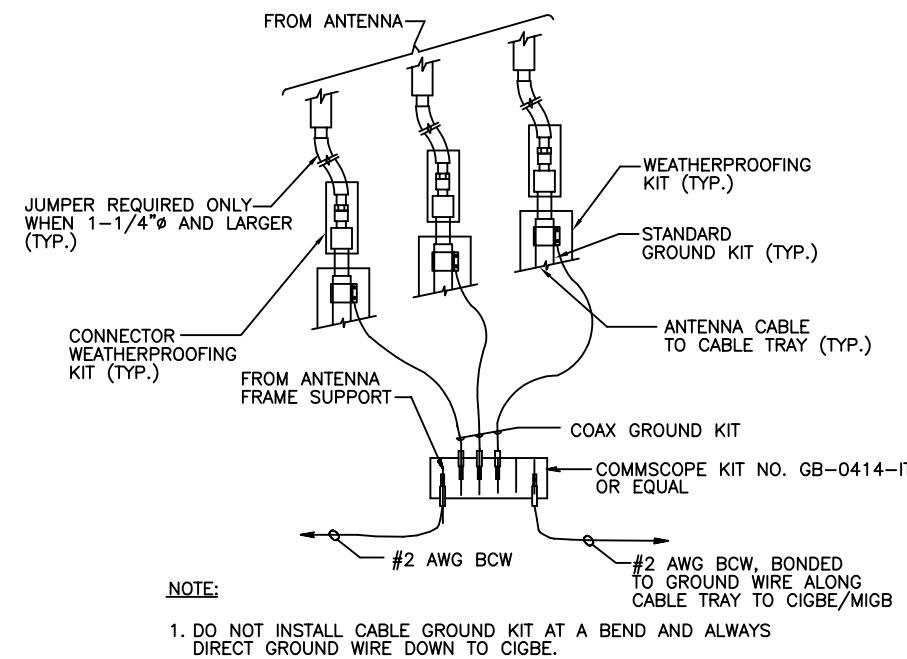
IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT. UNLESS EXPLICITLY AGREED TO BY THE ENGINEER IN WRITING, THE ENGINEER DISCLAIMS ALL LIABILITY ASSOCIATED WITH THE REUSE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREIN.

SITE NAME:	SOUTH WINDSOR SAND HILL RD	
SITE NUMBER:	CT1139	
SITE ADDRESS:	151 SAND HILL ROAD SOUTH WINDSOR, CT 06074	

PROJECT TYPE:	LTE 4C, 5C, 6C, 5G NR, RETRO & BWE	
SHEET TITLE:	STRUCTURAL NOTES	
DRAWING #:	SN-1	REVISION: 1

ABC_ABC_LTE MULTI CARRIER_Rev2.vsd





GROUNDING RISER DIAGRAM
N.T.S.

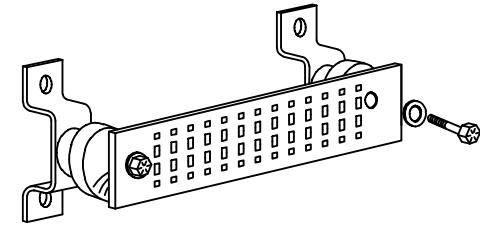
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

SECTION "P" – SURGE PRODUCERS

CABLE ENTRY PORTS (HATCH PLATES) (#2)
GENERATOR FRAMEWORK (IF AVAILABLE) (#2)
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)



REVISIONS		
1	01/25/21	ISSUED FOR CONSTRUCTION
0	12/18/20	ISSUED FOR REVIEW
NO.	DATE	DESCRIPTION

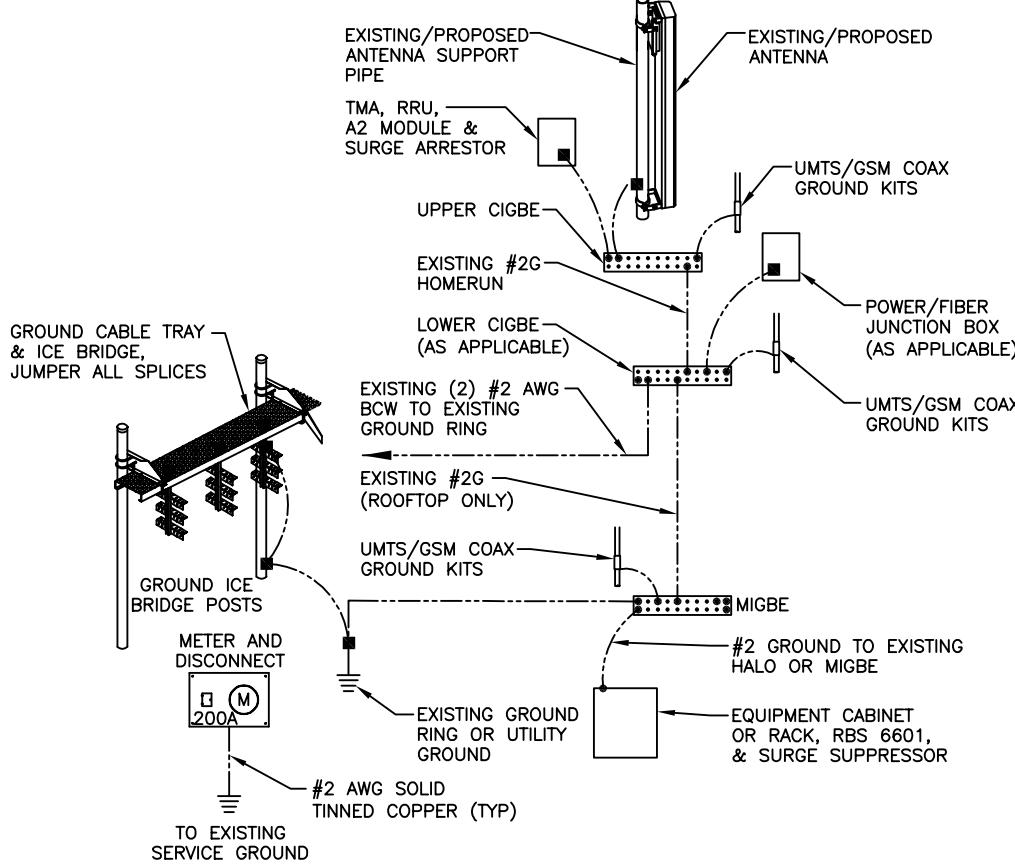
DESIGNED BY: BPC APPROVED BY: DC



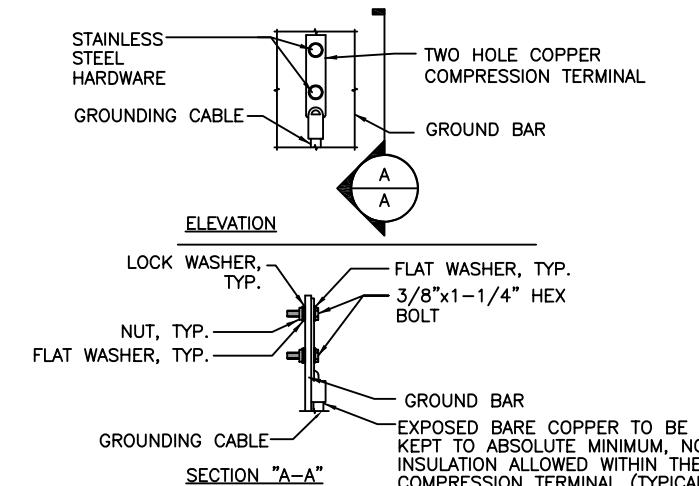
IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT. UNLESS EXPLICITLY AGREED TO BY THE ENGINEER IN WRITING, THE ENGINEER DISCLAIMS ALL LIABILITY ASSOCIATED WITH THE REUSE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREIN.

SITE NAME: SOUTH WINDSOR SAND HILL RD
SITE NUMBER: CT1139
SITE ADDRESS: 151 SAND HILL ROAD
SOUTH WINDSOR, CT 06074
PROJECT TYPE: LTE 4C, 5C, 6C, 5G NR, RETRO & BWE

SHEET TITLE: GROUNDING DETAILS
DRAWING #: G-1 REVISION: 1



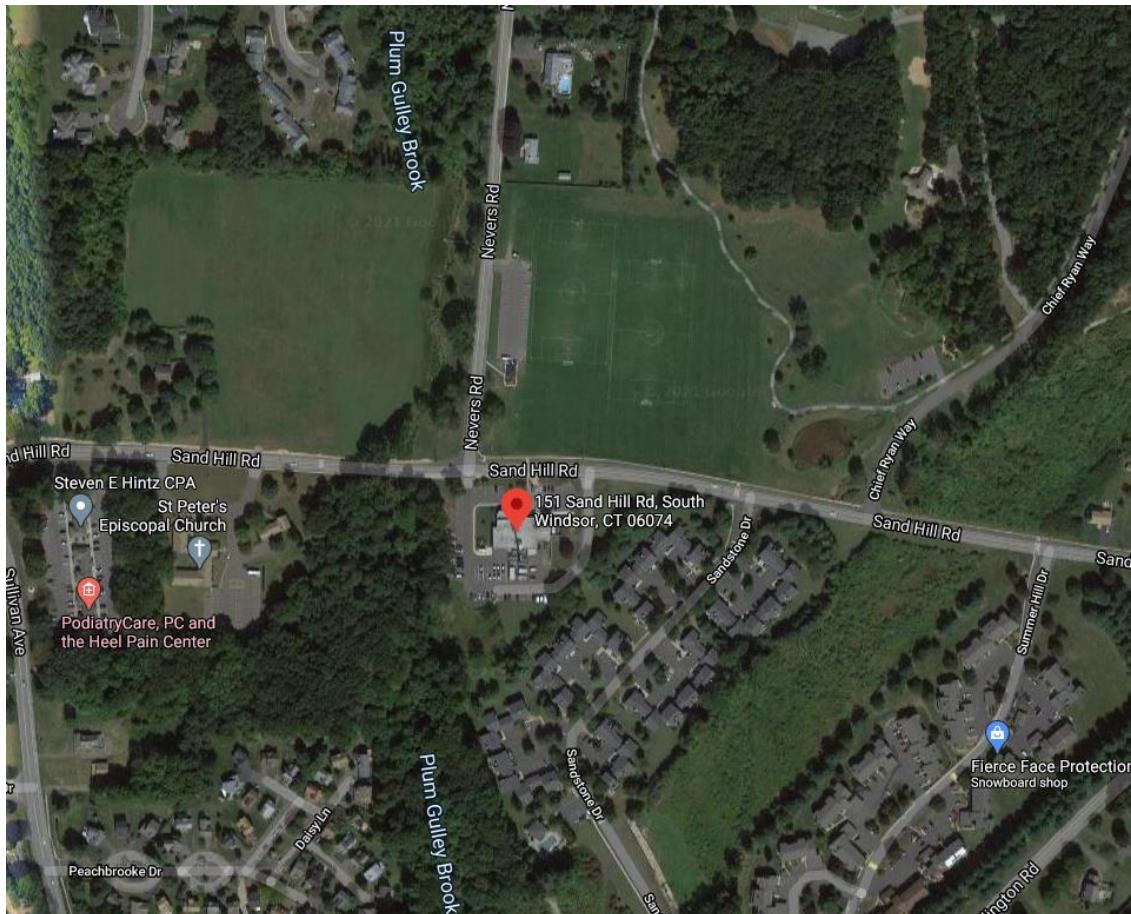
GROUNDING RISER DIAGRAM
N.T.S.



SECTION "A-A"
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

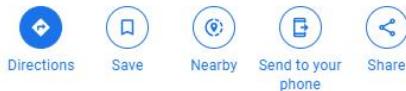
GROUND BAR CONNECTION DETAIL
N.T.S.

EXHIBIT 2



151 Sand Hill Rd

South Windsor, CT 06074
Building



[Suggest an edit on 151 Sand Hill Rd](#)



Town of South Windsor, CT

Property Listing Report

Map Block Lot

76-8

Account

79800151

Property Information

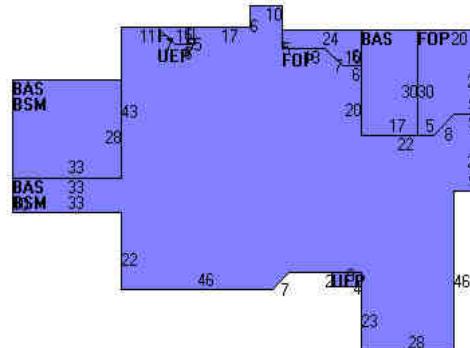
Property Location	151 SAND HILL ROAD	
Owner	SOUTH WINDSOR TOWN OF 56	
Co-Owner	POLICE FACILITY	
Mailing Address	1540 SULLIVAN AVENUE	
	SOUTH WINDSOR	CT
		06074
Land Use	920	Exempt Comm
Land Class	E	
Zoning Code	RR	
Census Tract	4871	

Neighborhood	C400
Acreage	5.31
Utilities	
Lot Setting/Desc	
Water Information	CONNECTICUT WATER 860.623.3355
Trash Day	THURSDAY

Photo



Sketch



Primary Construction Details

Year Built	1984
Stories	1.00
Building Style	Jail
Building Use	Comm/Ind
Building Condition	B
Floors	Quarry Tile
Total Rooms	0

Bedrooms	
Full Bathrooms	58
Half Bathrooms	
Bath Style	n/a
Kitchen Style	n/a
Roof Style	Flat
Roof Cover	Tar & Gravel

Exterior Walls	Brick Veneer
Interior Walls	Minimum
Heating Type	Forced Hot Air
Heating Fuel	Oil
AC Type	
Gross Bldg Area	19300
Total Living Area	10142



Town of South Windsor, CT

Property Listing Report

Map Block Lot

76-8

Account

79800151

Valuation Summary

(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	2613100	1829200
Extras	44000	30800
Improvements	2695500	1886900
Outbuildings	38400	26900
Land	316600	221600
Total	3012100	2108500

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
First Floor	8900	8900
Basement	8390	0
Open Porch	690	0
Finished Upper Story	1242	1242
Unfin. Enclosed Porch	78	0
Total Area	19300	10142

Outbuilding and Extra Items

Sales History

Owner of Record

Book/ Page

Sale Date

Sale Price

SOUTH WINDSOR TOWN OF 56

184/ 171

9/4/1974

0

EXHIBIT 3



Tower Engineering Solutions

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

Structural Analysis Report

Existing 187 ft SABRE Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT07824-S

Customer Site Name: South Windsor

Carrier Name: AT&T (App#: 141664-1)

Carrier Site ID / Name: CT1139 / S. Windsor-Sand Hill Rd

Site Location: 151 Sand Hill Road

South Windsor, Connecticut

Hartford County

Latitude: 41.836000

Exp.10/31/2021

Longitude: -72.552000



Analysis Result:

Max Structural Usage: 67.5% [Pass]

Max Foundation Usage: 80.0% [Pass]

Additional Usage Caused by New Mount/Mount Modification: N/A

02/09/2021

Report Prepared By : Tawfeeq Alajaj

Introduction

The purpose of this report is to summarize the analysis results on the 187 ft SABRE Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Tower Drawings	Tower Drawing prepared by Sabre, Job #02-10062 dated 11/1/01
Foundation Drawing	Foundation Drawing prepared by Sabre, Job #02-10062 dated 10/11/01
Geotechnical Report	Geotechnical Report prepared by Dr. Clarence Welti, dated 9/29/00
Modification Drawings	N/A
Mount Analysis	MA by TES, Job# 99270, dated 11/09/2020

Analysis Criteria

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

Wind Speed Used in the Analysis:	Ultimate Design Wind Speed V_{ult} = 125.0mph (3-Sec. Gust)/ Nominal Design Wind Speed V_{asd} = 97.0 mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	C
Structure Class:	II
Topographic Category:	1
Crest Height:	0 ft
Seismic Parameters:	$S_s = 0.178, S_1 = 0.064$

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

Existing Antennas, Mounts and Transmission Lines

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	187.0	1	Telewave - ANT450F6 - Whip	Low Profile Platform	(4) 1/2" (3) 7/8"	Town of South Windsor
2		2	Telewave - ANT900D6-9 - Whip			
3		2	Decibel - DB201 - Whip			
4		2	Scala - MF-900B - Dish			
-	170.0	3	Powerwave - 7770 - Panel	Low Profile Platform w/ HRK12	(12) 1 5/8" Coax (4) 3/4" DC Power (2) 1/2" Fiber (2) 3" Conduit	AT&T
-		3	Cci - HPA-65R-BUU-H6 - Panel			
-		3	Quintel - QS66512-2 - Panel			
-		1	Nokia - CS72188.01 LMU - Omni			
-		3	Cci - DTMABP7819VG12A TMA			
-		6	Kaelus - DBC0061F1V51-2 - Diplexer			
-		3	Ericsson - RRUS-11			
-		3	Ericsson - RRUS-32 B2			
-		3	Ericsson - RRUS-32			
-		3	Css - DBC-750 - Combiner			
-		2	Raycap - DC6-48-60-18-8F - DC SS			
-		3	Commscope - ABT-DFDM-ADBH -BIAS-T			
17	160.0	3	RFS APXVAARR24_43-U-NA20	Platform w/ Hand Rail + Kicker kit w/ Collar mount	(9) 1 5/8" (4) 1 5/8" Fiber	T-Mobile
18		3	Ericsson Air32 KRD901146-1_B66A_B2A			
19		3	Ericsson AIR6449 B41			
20		3	Ericsson KRY 112 144/1			
21		3	Commscope SDX1926Q-43			
22		3	Ericsson 4449 B71+B85			
23		3	Ericsson 4415 B25			
24	150.0	3	Comba ODI2-065R18K-GQ Panel	(3) Commscope P-200 Stand-off	(1) 1.25" HFC	Dish Network
25		2	Ericsson 4415 RRU			
26		3	Ericsson 0208 RRU			
27	140.0	1	RFS - DB-T1-6Z-8AB-0Z - Surge Suppressor	Low Profile Platform	(12) 1 5/8" (1) 1 5/8" Hybrid (1) 1/2"	Verizon
28		6	RFS - FD9R6004/2C-3L - Diplexer			
29		6	Commscope - HBXX-6517DS-A2M - Panel			
30		6	Alcatel Lucent - KS24019 - GPS			
31		3	Commscope - LNX-6514DS-A1M - Panel			
32		3	Commscope - LNX-6514DS-VTM - Panel			
33		3	Alcatel Lucent - RRH2x40-07-U - RRU			
34		3	Alcatel Lucent - RRH2x60-1900 - RRU			
35	130.0	3	Alcatel Lucent - 1900MHz - RRH	Low Profile Platform	(1) 0.7" Fiber (3) 1-1/4"	Sprint
36		3	Alcatel Lucent - 800 MHz - RRH			
37		3	Alcatel Lucent - 800MHz - Filter			
38		4	RFS - ACU-A20-N - RET			
39		3	RFS - APXVSPP18-C-A20 - Panel			
40		3	RFS - APXVTM14-C-120 - Panel			
41		3	RF Filters			
42		3	Alcatel Lucent - TD-RRH8x20-25 - RRU			

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
43	92.0	1	Telewave - ANT150D3 - Whip	Low Profile Platform	(6) 1/2"	Town of South Windsor
44		1	Telewave - ANT4506-9 - Whip			
45		1	Telewave - ANT450Y10-WR - Yagi			
46		1	Decibel - DB205 - Whip			
47		2	Scala - MF-900B - Dish			

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

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
5	170.0	3	CCI - HPA-65R-BU6AA-K - Panel	Low Profile Platform w/ HRK12	(12) 1 5/8" (2) 1/2" Fiber (2) 3" Conduit (4) 3/4" DC Power	AT&T
6		3	Quintel - QS66512-2 - Panel			
7		3	CCI - DMP65R-BU6DA - Panel			
8		3	CCI DTMABP7819VG12A TMA			
9		6	Kaelus DBC0061F1V51-2			
10		3	Ericsson RRUS-32			
11		3	Ericsson RRUS E2 B29			
12		3	Ericsson RRUS 8843 B2 B66A			
13		3	Ericsson RRUS 4449 B5/B12			
14		3	CSS DBC-750			
15		2	Raycap DC6-48-60-18-8F			
16		3	Commscope ABT-DFDM-ADBH			

Existing 3" conduit. This conduit houses the above (4) DC cables and (2) Fiber cables.

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

Analysis Results

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

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:	67.5%	64.0%	61.2%
Pass/Fail	Pass	Pass	Pass

Foundations

	Moment (Kip-Ft)	Shear (Kips)
Original Design Reactions	6540.5	47.9
Analysis Reactions	6161.4	47.9
Factored Reactions*	8829.6	64.7
% of Design Reactions	69.8%	74.0%

* Per section 15.5.1 of the TIA-222-G standard, factored reactions were obtained by multiplying a 1.35 factor to the original design reactions.

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.3489 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

Based on the analysis results, the existing structure and its foundation were found to be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the TIA-222 Standard under the design basic wind speed as specified in the Analysis Criteria.

Standard Conditions

1. This analysis was performed based on the information supplied to **(TES) Tower Engineering Solutions, LLC**. Verification of the information provided was not included in the Scope of Work for **TES**. The accuracy of the analysis is dependent on the accuracy of the information provided.
2. The structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.
3. The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of **TES**. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the ANSI/TIA-222 standard or other codes, **TES** should be notified in writing and the applicable minimum values provided by the client.
4. The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. **TES** has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, **TES** should be notified immediately to evaluate the effect of the discrepancy on the analysis results.
5. The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.
6. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

EXHIBIT 4

Mount Analysis Report

Site Number	CT1139
FA Number	10035389
Site Name	South Windsor Sand Hill Rd
Project	LTE 4C/5C/6C/5G/BWE/RETRO
Pace ID	MRCTB048696, MRCTB048654, MRCTB048665, MRCTB048719, MRCTB048688, MRCTB048721
Site Location	151 Sand Hill Road South Windsor, CT 06074 41.8359919° N, 72.5519989° W
Design Codes	TIA-222-H Standards 2018 IBC ASCE 7-16 2018 CT State Building Code
Mount Centerline	170 ft.
Mount Classification	Platform with Handrails

	Stress Ratio	Overall Result
Existing Platform with Handrails	59%	PASS

Client:

at&t Mobility Corp.
55 Cochituate Road
Framingham, MA 01701



Date: 12/22/2020

Scope of Work:

Centerline Communications was authorized by AT&T to perform a mount analysis of the existing antenna mount to determine its capacity to support the proposed and existing AT&T equipment listed in this report. This mount was analyzed using RISA 3D v17.0.4.

Final Appurtenances Configuration:

Elevation (ft)	Position ¹	Azimuth (degrees)	Quantity	Appurtenance	Sector
170	MP1	40	1	QS66512-2 Antenna	Sector 1
170	MP3	40	1	HPA-65R-BUU-H6 Antenna	
170	MP5	40	1	DMP65R-BU6DA Antenna	
170	R1	40	1	RRUS-E2 B29 RRH	
170	R1	40	1	8843 B2/B66A RRH	
170	R4	40	1	RRUS-32 B30 RRH	
170	R4	40	1	4449 B5/B12 RRH	
170	MP2	40	1	DC6-48-60-18-8F Squid	
170	MP6	160	1	QS66512-2 Antenna	Sector 2
170	MP8	160	1	HPA-65R-BUU-H6 Antenna	
170	MP10	160	1	DMP65R-BU6DA Antenna	
170	R2	160	1	RRUS-E2 B29 RRH	
170	R2	160	1	8843 B2/B66A RRH	
170	R5	160	1	RRUS-32 B30 RRH	
170	R5	160	1	4449 B5/B12 RRH	
170	MP7	160	1	DC6-48-60-18-8F Squid	
170	MP11	280	1	QS66512-2 Antenna	Sector 3
170	MP12	280	1	HPA-65R-BUU-H6 Antenna	
170	MP13	280	1	DMP65R-BU6DA Antenna	
170	R3	280	1	RRUS-E2 B29 RRH	
170	R3	280	1	8843 B2/B66A RRH	
170	R6	280	1	RRUS-32 B30 RRH	
170	R6	280	1	4449 B5/B12 RRH	
170	MP16	280	1	DC6-48-60-0-8F Squid	

Notes:

1. MP represent Mount Pipe and R represent RRH mount.
2. Existing Appurtenance
3. **Proposed Appurtenance**

Design Criteria:

Design Codes:

TIA-222-H Standards
 2018 IBC
 ASCE 7-16
 2018 CT State Building Code

Ultimate Wind Speed	118 mph
Wind Speed with Ice	50 mph
Ice Thickness	1.5 in.
Exposure Category	C
Topographic Method	Method 1, Cat. 1
Risk Category	II
Site Soil Class (Assumed)	D-Stiff Soil
Seismic Design Category	B
Spectral Response Acceleration Parameter at a Short Periods, S_S	0.184 g
Spectral Response Acceleration Parameter at a Period of 1 Second, S_1	0.055 g
Short Period Site Coefficient, F_a	1.6
Long Period Site Coefficient, F_v	2.4

*Refer to calculations for additional design criteria.

Conclusion:

The results of the analysis concluded that the existing AT&T mounts are capable to support the proposed and existing AT&T equipment loads upon completion of the modifications. Centerline Communications recommends the following:

- Install (1) 2" STD x 5.0' long mount pipe in all sectors.
- Install (1) Site Pro 1 Part #RRUDSM mount in all sectors.

	Stress Ratio	Overall Result
Existing Mount	59%	PASS

Reference Documents:

- AT&T RFDS ID #4093558 V2.0, dated 10/13/2020
- Structural Analysis by TES, dated 03/23/2018
- Mount Analysis by Centek Engineering, dated 05/02/2018
- Mount Mapping Report by Trylon, dated 11/30/2020

Assumptions and Limitations:

- The calculations performed by Centerline Communications are limited to the structural members in these calculations only.
- Structural calculations in this report do not check the adequacy of the supporting structure, other mounts, or coax mounting attachments.
- The calculation assumes all structural members to be in good condition i.e. no damage, rust or other defects.

EXHIBIT 5



Radio Frequency Emissions Analysis Report

January 5, 2021
on behalf of AT&T

Site Name: SOUTH WINDSOR SAND HILL RD
PACE IDs: MRCTB048696, MRCTB048654, MRCTB048719,
MRCTB048665, MRCTB048721, and MRCTB048688
Site Address:
151 SAND HILL ROAD, South Windsor, CT 06074 **FA:** 10035389
USID: 59386

Site Compliance Summary

Compliance Status:	Compliant
Carrier MPE%	0.05201700%
of FCC General Population Allowable Limit:	
Composite MPE%	0.05201700%
of FCC General Population Allowable Limit:	



January 5, 2021

AT&T Mobility – New England
Attn: John Benedetto, RF Manager
550 Cochituate Road
Suite 550 – 13&14
Framingham, MA 01701

Emissions Analysis for Site: SOUTH WINDSOR SAND HILL RD

Centerline Communications, LLC (“Centerline”) was directed to analyze the proposed AT&T facility to be located near **151 SAND HILL ROAD, South Windsor CT 06074** for the purpose of determining whether the emissions from the proposed facility are within specified federal limits.

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

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

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 700 MHz (LTE) bands are 467 $\mu\text{W}/\text{cm}^2$. The 850 MHz (LTE/5G) band limit is 567 $\mu\text{W}/\text{cm}^2$. 1900 MHz (PCS), 2100 MHz and 2300 MHz (WCS) band limit is 1000 $\mu\text{W}/\text{cm}^2$.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits, as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means. Additional details can be found in FCC OET 65.



Calculations

Calculations were performed for the proposed facility using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since AT&T is proposing focused omnidirectional antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB, was focused at the base of the tower. This is a very conservative estimate since the gain reduction in actual applications is typically greater than 10 dB in the direction of ground immediately surrounding the facility. Real world emissions values from this facility are expected to be lower than values listed in this report at ground level. For this report the sample point is the top of a 6-foot person standing at the base of the tower.

Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. All power values expressed and analyzed are maximum power levels expected to be used on all radios.

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

RRH #	Frequency Band	Technology	Channel Count	Transmit Power per Channel (W)
1	700	LTE	2	40
1	850	UMTS	1	40
1	1900	PCS	4	40
2	700	LTE	4	40
2	2300	WCS	4	25
3	700	LTE	2	40
3	850	LTE/5G	2	40
3	2100	AWS	4	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 (LTE/5G), 1900 MHz (PCS), 2100 MHz (AWS) and 2300 MHz (WCS) frequency bands. This is based on information from the carrier with regard to anticipated antenna selection.

Sector	Antenna Number	Make / Model	Centerline (ft)
A	1	QUINTEL QS66512-2	170
A	1	QUINTEL QS66512-2	170
A	1	QUINTEL QS66512-2	170
A	2	CCI HPA-65R-BUU-H6	170
A	2	CCI HPA-65R-BUU-H6	170
A	3	CCI DMP65R-BU6D	170
A	3	CCI DMP65R-BU6D	170
A	3	CCI DMP65R-BU6D	170
B	4	QUINTEL QS66512-2	170
B	4	QUINTEL QS66512-2	170
B	4	QUINTEL QS66512-2	170
B	5	CCI HPA-65R-BUU-H6	170
B	5	CCI HPA-65R-BUU-H6	170
B	6	CCI DMP65R-BU6D	170
B	6	CCI DMP65R-BU6D	170
B	6	CCI DMP65R-BU6D	170
C	7	QUINTEL QS66512-2	170
C	7	QUINTEL QS66512-2	170
C	7	QUINTEL QS66512-2	170
C	8	CCI HPA-65R-BUU-H6	170
C	8	CCI HPA-65R-BUU-H6	170
C	9	CCI DMP65R-BU6D	170
C	9	CCI DMP65R-BU6D	170
C	9	CCI DMP65R-BU6D	170
N/A (Unknown Carrier)	10	Generic Microwave 3ft	199

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.

ID	Make / Model	Frequency Band	Gain (dBd)	Centerline (ft)	Channel Count	TX Power (W)	ERP (W)	MPE %
Alpha 1	QUINTEL QS66512-2	700	11.45	170	2	40	1117.095	0.006078000
Alpha 1	QUINTEL QS66512-2	850	11.25	170	1	40	533.4086	0.002779000
Alpha 1	QUINTEL QS66512-2	1900	13.75	170	4	40	3794.198	0.005797000
Alpha 2	CCI HPA-65R-BUU-H6	700	12.51	170	4	40	2851.806	0.015443000
Alpha 2	CCI HPA-65R-BUU-H6	2300	15.13	170	4	25	3258.367	0.004405000
Alpha 3	CCI DMP65R-BU6D	700	11.75	170	2	40	1196.989	0.006189000
Alpha 3	CCI DMP65R-BU6D	850	11.45	170	2	40	1117.095	0.005255000
Alpha 3	CCI DMP65R-BU6D	2100	15.25	170	4	40	5359.447	0.005916000
Beta 4	QUINTEL QS66512-2	700	11.45	170	2	40	1117.095	0.000002000
Beta 4	QUINTEL QS66512-2	850	11.25	170	1	40	533.4086	0.000014000
Beta 4	QUINTEL QS66512-2	1900	13.75	170	4	40	3794.198	0.000022000
Beta 5	CCI HPA-65R-BUU-H6	700	12.25	170	4	40	2686.086	0.000035000
Beta 5	CCI HPA-65R-BUU-H6	2300	15.13	170	4	25	3258.367	0.000015000
Beta 6	CCI DMP65R-BU6D	700	11.25	170	2	40	1066.817	0.000004000
Beta 6	CCI DMP65R-BU6D	850	11.35	170	2	40	1091.667	0.000006000
Beta 6	CCI DMP65R-BU6D	2100	15.25	170	4	40	5359.447	0.000003000
Gamma 7	QUINTEL QS66512-2	700	11.45	170	2	40	1117.095	0.000004000
Gamma 7	QUINTEL QS66512-2	850	11.25	170	1	40	533.4086	0.000003000
Gamma 7	QUINTEL QS66512-2	1900	13.65	170	4	40	3707.831	0.000002000
Gamma 8	CCI HPA-65R-BUU-H6	700	12.46	170	4	40	2819.162	0.000030000
Gamma 8	CCI HPA-65R-BUU-H6	2300	15.13	170	4	25	3258.367	0.000001000
Gamma 9	CCI DMP65R-BU6D	700	11.55	170	2	40	1143.115	0.000009000
Gamma 9	CCI DMP65R-BU6D	850	11.35	170	2	40	1091.667	0.000000000
Gamma 9	CCI DMP65R-BU6D	2100	15.25	170	4	40	5359.447	0.000003000
AT&T MPE%								0.05201700 %

Table 3: AT&T Antenna Inventory & Power Level



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 4* below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated AT&T sector(s).

Frequency Band	Technology	Centerline (ft.)	# of Channels	ERP W (Per Channel)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	MPE %
700	LTE	170	2	40	0.0283630	467	0.00607800
850	UMTS	170	1	40	0.0157480	567	0.00277900
1900	PCS	170	4	40	0.0579730	1000	0.00579700
700	LTE	170	4	40	0.0720700	467	0.01544300
2300	WCS	170	4	25	0.0440550	1000	0.00440500
700	LTE	170	2	40	0.0288810	467	0.00618900
850	LTE/5G	170	2	40	0.0297760	567	0.00525500
2100	AWS	170	4	40	0.0591620	1000	0.00591600
Alpha Sector							0.05186200
700	LTE	170	2	40	0.0000110	467	0.00000200
850	UMTS	170	1	40	0.0000790	567	0.00001400
1900	PCS	170	4	40	0.0002230	1000	0.00002200
700	LTE	170	4	40	0.0001650	467	0.00003500
2300	WCS	170	4	25	0.0001540	1000	0.00001500
700	LTE	170	2	40	0.0000170	467	0.00000400
850	LTE/5G	170	2	40	0.0000310	567	0.00000600
2100	AWS	170	4	40	0.0000320	1000	0.00000300
Beta Sector							0.05037700
700	LTE	170	2	40	0.0000180	467	0.00000400
850	UMTS	170	1	40	0.0000150	567	0.00000300
1900	PCS	170	4	40	0.0000230	1000	0.00000200
700	LTE	170	4	40	0.0001390	467	0.00003000
2300	WCS	170	4	25	0.0000140	1000	0.00000100
700	LTE	170	2	40	0.0000420	467	0.000009000
850	LTE/5G	170	2	40	0.0000020	567	0.000000000
2100	AWS	170	4	40	0.0000290	1000	0.000003000
Gamma Sector							0.04957500
AT&T MPE%							0.05201700 %

Table 4: 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:

Carrier	Predicted MPE %
AT&T	0.05201700%
Unknown Carrier	0.00000000%
Composite	0.05201700%

Table 5: Total Predicted MPE(%) by Carrier

Compliance Status:

The anticipated composite MPE value for this site assuming all carriers present is **0.05201700%** 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.

Dane Folie
RF Compliance Consultant
Centerline Communications, LLC
750 West Center St. Suite 301
West Bridgewater, MA 02379

EXHIBIT 6

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TOWN OF SOUTH WINDSOR
APPLICATION PROFILE

P 1
piappent

GENERAL APPLICATION

Application ref 200801645 Fee Effective Dt 10/21/2008
Department 1440 - BUILDING DEPARTMENT
Location 151 SAND HILL ROAD
Parcel 79800151
Cross streets
Add'l loc desc
Municipality SOUTH WINDSOR
Subdivision
Existing use COMMERCIAL LAND
memo
Current Zoning RURAL RESIDENTIAL
Flood zone
Applicant ELECTRICAL CONTRACTOR
Proj/Activity ELECTRICAL PERMIT
Class of work
Description TOWER FOR WIRELESS COMMUNICATIONS
Proposed use COMMERCIAL LAND
memo
Proposed zoning RURAL RESIDENTIAL
Flood zone
Non-conforming N
Applic received 10/21/08
Estimated cost 0
Estim start/end
Actual start/end 04/20/11
Impervious Surf
Assigned to
Status COMPLETE
Status code desc NEW Multiple submissions N
Next action Government owned N
memo
Ordinance ref
Reason for app
Parent app
Point in time fee effective date
Fee expiration date

PROGRESS

Prerequisites Approved	0	of	0
Restrictions/Hazards Cleared	0	of	0
Plan Reviews	0	of	0
Department/Board Reviews	0	of	0
Permits Issued/Completed	1	of	1
Inspections	5	of	5
Permit Fees Paid	0	of	0
Miscellaneous Charges Paid	0	of	0
Work Orders Paid	0	of	0

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TOWN OF SOUTH WINDSOR
APPLICATION PROFILE

Application ref: 200801645 (continued)

P
piappent 2

ROLES/NAMES

Role
OWNER
CID : 598081

ELECTRICAL CONTRACTOR
CID : 627922
Phone: 860-722-7483

BUILDING CONSTRUCTION

Sequence 2
Proposed use COMMERCIAL BUILDING
Bldg desc
Struct type

Footprint
Gross SF
Net SF
Finished SF
Unfinish SF

Bldg type

Existing Property Building

Upd property

Y

Stories

0

Use memo

Height

Front dim

Back dim

Left dim

Right dim

Dim memo

Constr type

Occup group

Heat type

Water type

Sewer type

Elevators

Sprinklers

Firewalls

Ext finish

Firepl type

Style

Foundn size

Garage type

Carport

Deck/porch

Porch 1

Porch 2

Sunroom

Morning room

Other

Total units
1 BR 0
2 BR 0
3+BR 0

Attic N
Basement N
Central air N
HW smoke det N
Fire alarm N

Heads

Proposed Setbacks
Front
Back
Left
Right

Basement SF
Fin bsmt SF
Garage SF

Total rooms 0
Bedrooms 0
Baths .00
Half baths 0

Application ref: 200801645 (continued)

200801645 (continued)

EL LEGISLACI

Type	Permit Number	Status	Issued	Fee	Unpaid	Amt.
ELC PERMIT	800329	ISSUED	10/28/08	225.00		.000

INSPECTIONS

Type	Requested	Scheduled	Insprtr	Perfomed	Results	Bal	Due
FINAL			DOUG	04/04/11	PASS	000	
ELEC SERVC			ROSE	04/20/11	N/A	000	
ELEC UGRND			ROSE	04/20/11	N/A	000	
ELEC ROUGH			ROSE	04/20/11	N/A	000	
ELEC FINAL			ROSE	04/20/11	N/A	000	
	TOTAL:					000	

AUDIT HISTORY

Department	Date	Comments	Action	Source	Created by
	04/20/11	See text	Application status change APP	dayshellforeshaw	
1440 - BUILDING DEPA	04/20/11	Inspector changed from to ROSE on completed inspection.	APP	dayshellforeshaw	
1440 - BUILDING DEPA ELEC FINAL	04/20/11	N/A	APP	dayshellforeshaw	
1440 - BUILDING DEPA	04/20/11	Inspector changed from to ROSE on completed inspection.	APP	dayshellforeshaw	
1440 - BUILDING DEPA ELEC ROUGH	04/20/11	N/A	APP	dayshellforeshaw	
1440 - BUILDING DEPA	04/20/11	Inspector changed from to ROSE on completed inspection.	APP	dayshellforeshaw	
1440 - BUILDING DEPA ELEC UGRND	04/20/11	N/A	APP	dayshellforeshaw	
1440 - BUILDING DEPA	04/20/2011	N/A	APP	dayshellforeshaw	
1440 - BUILDING DEPA	04/20/11	Inspector changed from to ROSE on completed inspection.	APP	dayshellforeshaw	
1440 - BUILDING DEPA ELEC SERVC	04/20/11	N/A	APP	dayshellforeshaw	
1440 - BUILDING DEPA	04/20/2011	N/A	APP	dayshellforeshaw	
1440 - BUILDING DEPA	04/20/11	Inspector changed from to DOUG on completed inspection.	APP	dayshellforeshaw	
1440 - BUILDING DEPA FINAL	04/20/11	PASS	APP	dayshellforeshaw	
1440 - BUILDING DEPA	03/04/11	Permit number 800329	APP	dayshellforeshaw	
1440 - BUILDING DEPA	11/17/08	Permit number 800329	APP	dayshellforeshaw	
1440 - BUILDING DEPA	10/28/08	Permit number 800329	APP	dayshellforeshaw	
1440 - BUILDING DEPA	10/28/08	Permit no 800329, Permit type ELECPERMIT,	APP	PAID	
1440 - BUILDING DEPA	10/28/08	Permit payment collected	APP	aliceakeahoe	

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morganamiddleton

TOWN OF SOUTH WINDSOR
APPLICATION PROFILE

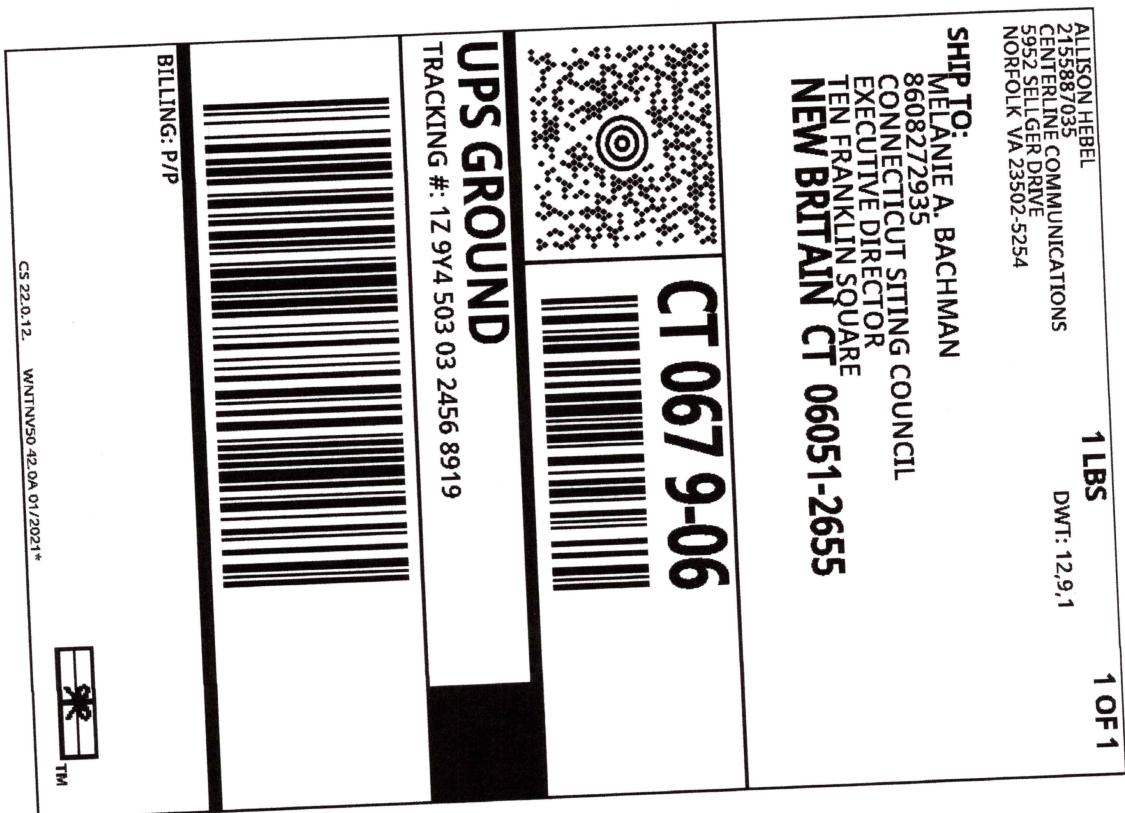
Application ref: 200801645 (continued)

10/21/08 Payment collected on permit ELECTRICAL PERMIT E
1440 - BUILDING DEPA Application entered.
10/21/08 APP
aliceakehoe

** END OF REPORT - Generated by Middleton, Morgan **

P
piappent
4

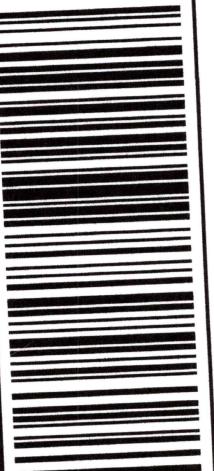
EXHIBIT 7



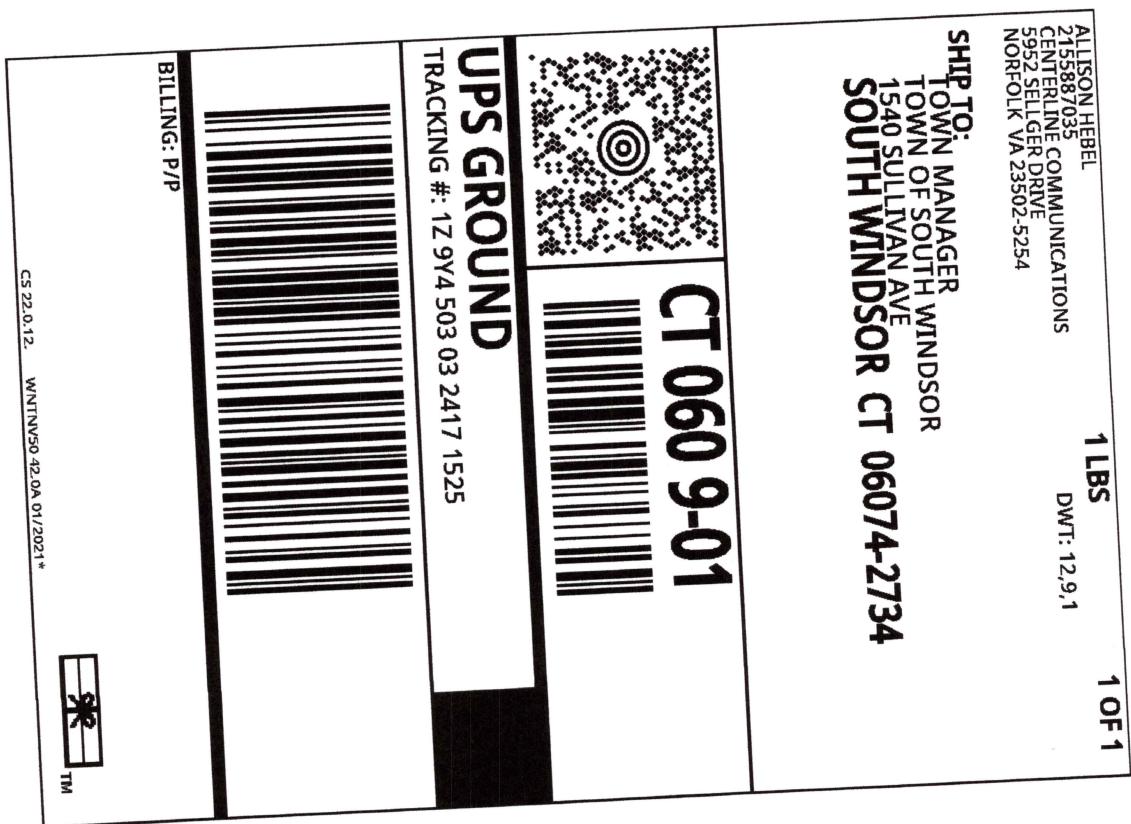
FOLD HERE



FOLD HERE

ALLISON HEBEL 215588035 CENTERLINE COMMUNICATIONS 5952 SELLGER DRIVE NORFOLK VA 23502-5254		1 LBS DWT: 12.9,1 1 OF 1
<p>SHIP TO: PLANNING & ZONING TOWN OF SOUTH WINDSOR 1540 SULLIVAN AVE SOUTH WINDSOR CT 06074-2734</p>		
	 CT 060 9-01 	UPS GROUND TRACKING #: 1Z 9Y4 503 03 2716 7132
 BILLING: P/P	CS 22.0.12. WNTNVS0 42.0A 01/2021*	

FOLD HERE



FOLD HERE

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 without a Daily Pickup

Customers with a Daily Pickup

Your driver will pickup your shipment(s) as usual.

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

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

Hard the package to any UPS driver in your area.

UPS Access Point™

UPS Access Point™ UPS STORE # 6403

6678 E VIRGINIA BEACH BLVD

CVS STORE # 23502

5741 E VIRGINIA BEACH BLVD

NORFOLK, VA 23502

CVS STORE # 3521

471 N MILITARY HWY

NORFOLK, VA 23507