From: Daniel Hatab <daniel.hatab@ramapocom.com>

Sent: Thursday, April 29, 2021 2:44 PM

To: CSC-DL Siting Council <Siting.Council@ct.gov> **Subject:** EM-AT&T-154-201209 (AT&T Site CTL05886)

Good Morning,

The site below has been completed on 04/21, CCA letter attached

AT&T Site: CTL05886

Address: 798 Toby Hill Road, Westbrook CT 06498

Thank You,

Daniel Hatab

daniel.hatab@ramapocom.com
20 Romanelli Ave, S. Hackensack, NJ 07606

Cell Phone: (201) 742-1070 Office Phone: (201) 343-2995

SPECIAL INSPECTION FINAL REPORT

City/County of Westbroo Attention:	k / Middlesex	Permit No.:	Date: 4/29/2021
Project Name/Address:	WESTBROOK / ORSINA	\	
		WESTBROOK, CT 06498	
In accordance with Sect for the following items:	ion 1704 of the <i>Internati</i>	ional Building Code, spe	ecial inspection has been provided
Steel Construction (1705.	10) - Visual inspection of (Closeout Package	
All hardware is presen	t and accounted for		
All hardware is comple	ete, properly sized with the	proper size	
All hardware is in good	d condition and free from d	lamage/corrosion	
Mount is free of damage	ge and/or corrosion		
Antennas are installed	on the proper sized mast	pipes and centered on the	mount
Antennas are mounted	d per supplied documentat	ion and free from damage	
RRHs are mounted pe	r supplied documentation	and free from damage	
judgment that, to the bes	st of our (my) knowledge cifications and applicab	e, the inspected work wa	it is our (my) professional as performed in accordance with ons of the <i>International Building</i> POD Group
Print full name: Mark Pat			·
Time rail flame:		ar Aganay Daanan	sible Engineer's stores
cc: Client/Project Owne Engineer/Architect	r	No. 3128	Weight State of the state of th



AT&T SITE NUMBER: 45340 AT&T SITE NAME: CTL05886 10071349 **AT&T FA CODE:**

AT&T PACE NUMBER: MRCTB048493, MRCTB048561, MRCTB048602,

MRCTB048572, MRCTB048523

AT&T PROJECT: LTE 2C/3C/4C/5GNR **BUSINESS UNIT #:** 876384 798 TOBY HILL ROAD **SITE ADDRESS:** WESTBROOK, CT 06498 **COUNTY: MIDDLESEX MONOPOLE SITE TYPE:**

150'-0" **TOWER HEIGHT:**

LOCATION MAP

SITE

Autumn Rides

NO SCALE

ATLANTA, GA 30324-3300





AT&T SITE NUMBER: 45340

BU #: **876384** WESTBROOK / ORSINA

798 TOBY HILL ROAD WESTBROOK, CT 06498

EXISTING 150'-0" MONOPOLE

ISSUED FOR:								
EV	DATE	DRWN	DESCRIPTION	DES./QA				
Α	10/30/20	AMM	PRELIMINARY	RO				
0	11/19/20	TMP	CONSTRUCTION	MEP				

MONAL ES ONAL ENTINE

11/19/2020

NLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER,

SHEET NUMBER:

REVISION:

SITE INFORMATION

WESTBROOK / ORSINA CROWN CASTLE USA INC. SITE NAME:

SITE ADDRESS: 798 TOBY HILL ROAD WESTBROOK, CT 06498 COUNTY: MIDDLESEX

MAP/PARCEL# WBRO-000026-008700-O000000

AREA OF CONSTRUCTION: EXISTING LATITUDE: 41° 19' 12.60' LONGITUDE -72° 26' 30.00" LAT/LONG TYPE: NAD83 GROUND ELEVATION: 164 FT. CURRENT ZONING:

TOWN OF WESTBROOK **IURISDICTION:**

OCCUPANCY CLASSIFICATION: U TYPE OF CONSTRUCTION:

A&E FIRM:

CROWN CASTLE

CONTACTS:

USA INC. DISTRICT

FACILITY IS UNMANNED AND NOT FOR A.D.A. COMPLIANCE:

HUMAN HABITATION PROPERTY OWNER: TOBY HILL FARM LLC

PO BOX 700 WESTBROOK, CT 06498

GLOBAL SIGNAL ACQUISITIONS II LLC TOWER OWNER:

2000 CORPORATE DRIVE CANONSBURG, PA 15317

CARRIER/APPLICANT: AT&T TOWER ASSET GROUP

575 MOROSGO DRIVE ATLANTA, GA 30324-3300

ELECTRIC PROVIDER: CONNECTICUT LIGHT & POWER CO

(845) 458-7720

PROJECT TEAM

3 CORPORATE PARK DRIVE, SUITE 101

VERONICA DELIA - PROJECT MANAGER

NICHOLAS ROMBACH - A&E SPECIALIST

NICHOLAS.ROMBACH@CROWNCASTLE.COM

JASON D'AMICO - CONSTRUCTION MANAGER

11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40299

CLIFTON PARK, NY 12065

PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE

CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER.

(800) 286-2000 TELCO PROVIDER: LIGHTOWER

DRAWING INDEX

SHEET#	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	SITE PLAN
C-1.2	EXISTING & FINAL EQUIPMENT PLANS
C-2	FINAL ELEVATION & ANTENNA PLANS
C-3	FINAL EQUIPMENT SCHEDULE
C-4	EQUIPMENT MOUNTING DETAILS
C-5	EQUIPMENT SPECS
G-1	GROUNDING SCHEMATIC
G-2	GROUNDING DETAILS
ATTACHED	PLUMBING DIAGRAM

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 1X17. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME



CALL CONNECTICUT ONE CALL (800) 922-4455 CBYD.COM CALL 2 WORKING DAYS BEFORE YOU DIG!

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO

- REMOVE (1) POWERWAVE TECH P65-16-XLH-RR ANTENNA
- REMOVE (1) ANDREW DBXNH-6565B-R2M ANTENNA
- REMOVE (3) ERICSSON RRUS-11 B12 RRUs
- RELOCATE (3) UMTS RET SMART EQUIPMENT
- INSTALL (3) ERICSSON 4449 B5/B12 RRUs
- INSTALL (3) ERICSSON 8843 B2/B66A RRUs
- INSTALL (3) ERICSSON 4478 B14 RRUs
- INSTALL (3) VALMONT RRUDSM BACK TO BACK MOUNTS
- INSTALL (2) #6AWG DC CABLES

- GROUND SCOPE OF WORK: • INSTALL (1) 6630 BASEBAND
- INSTALL (1) XMU
- INSTALL (1) IDLE CABLE
- POUR 4'-0"x4'-0" CONCRETE PAD

THE EXISTING ELIGIBLE WÎRELESS FACILITY.

TOWER SCOPE OF WORK:

- REMOVE (3) POWERWAVE TECH 7770 ANTENNAS
- REMOVE (1) KMW COMM AMX-CD-16-65-00T-RET ANTENNA

- REMOVE (6) POWERWAVE LGP-21401 TMAS
- INSTALL (3) CCI DMP65R-BU6DA ANTENNAS INSTALL (3) CCI OPA65R-BU6DA ANTENNAS
- INSTALL (1) RAYCAP DC6-48-60-18-8F SQUID

- INSTALL (1) 18-PAIR FIBER CABLE INSTALL (6) Y-CABLES FOR DUAL BAND RRUS

- INSTALL (1) 19" DISTRIBUTION SHELF
- INSTALL NEW PURCELL FLX-12 CABINET

APPLICABLE CODES/REFERENCE DOCUMENTS

SITE PHOTO

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO

PERMIT WORK NOT CONFORMING TO THESE CODES:

@ 2020 Micros

2018 CT STATE BUILDING CODE/2015 IBC W/ CT AMENDMENTS 2018 CT STATE BUILDING CODE/2015 IMC W/ CT AMENDMENTS MECHANICAL ELECTRICAL 2018 CT STATE BUILDING CODE/2017 NEC W/ CT AMENDMENTS

STRUCTURAL ANALYSIS: CROWN CASTLE USA INC.

DATED: OCTOBER 19 2020

DATED: OCTOBER 14, 2020

RFDS REVISION: PRELIMINARY DATED: 08/14/20

AND IS SHOWN HERE FOR REFERENCE PURPOSES ONLY. AT&T IS SOLELY RESPONSIBLE FOR THE

REFERENCE DOCUMENTS:

MOUNT ANALYSIS: POD GROUP

AC ELECTRICAL POWER DESIGN: BY OTHERS

ORDER ID: 527515 REVISION: 0

THE POWER DESIGN FOR ANY AC ELECTRICAL POWER CHANGES IS TO BE PERFORMED BY OTHERS ELECTRICAL POWER DESIGN

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

- NOTICE TO PROCEED- NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800-788-7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
- "LOOK LIP" CROWN CASTLE LISA INC. SAFETY CLIMB REQUIREMENT: THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT CONSIDERED DURING ALL STACES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIM MAINTENANCE AND CONTRACTOR NOTICE TICKET.
- PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL RECUIREMENTS
- ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED-STD-10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION)
- ALL SITE WORK TO COMPLY WITH QAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED-STD-10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS." IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR
- SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
 ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE
 CODES, REGULATIONS AND ORDINANCES. CONTRACTOR 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.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- RECOMMENDATIONS ONLESS SPECIFICALLY STATED OTHERWISE.

 9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.

 10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR, EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONSINED SAFE (C) ELECTRICAL SAFETY D) TERRICULING BUT EXCAVATION EXCAUNTED. PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES
- CONSTRUCTION SAFETY PROCEDURES.
 ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT
 SPECIFICATIONS, LATEST APPROVED REVISION.
 CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT
 THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER
 REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
 ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE
- EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
- THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION FROSION CONTRO CONTRACTOR SHALL MINIMIZE DISTORBANCE TO EXISTING SHE DURING CONSTRUCTION. EROSION CONTROL
 MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES
 FOR EROSION AND SEDIMENT CONTROL.
 THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND
- STRUCTURES, ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION
- 20. CONTRACTOR 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.

 CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED.
- FROM SITE ON A DAILY BASIS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GENERAL NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION CARRIER: AT&T TOWER OWNER: CROWN CASTLE USA INC.
- THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
- MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
 THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTROLLE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
- INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
 NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL
 DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT,
 AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCES OCCUR BETWEEN PLANS, DETAILS,
 GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER
 CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
 SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO
- ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. F IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE
- IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION ELEMENIS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL WIST 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 CROWN CASTLE. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REQULATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

 UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

 THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

 IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION AS SHOWN IN THE POWER, AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION AS SHOWN IN THE POWER, FELCO, AND GROUNDING PLAN DRAWINGS.

- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEM<mark>ENTS, PAVEMENTS, CURBS, LANDS</mark>CAPING AND STRUCTURES, ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC.
 CONTRACTOR 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 CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST—IN—PLACE CONCRETE.
 UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°F AT TIME OF
- CONCRETE EXPOSED TO FREEZE—THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR
- ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE TANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (FY) OF STANDARD DEFORMED BARS ARE AS FOLLOWS: #4 BARS AND SMALLER
- ON DRAWINGS CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO FARTH
- CONCRETE EXPOSED TO EARTH OR WEATHER:
 #6 BARS AND LARGER..... #5 BARS AND SMALLER. ...1-1/2" CONCRETE NOT EXPOSED TO FARTH OR WEATHER:
- BEAMS AND COLUMNS.
- A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

GREENFIELD GROUNDING NOTES:

- 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.
- ACCORDANCE WITH THE NEC.

 THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SAS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.

 THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT
- 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. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS: #2 BARE SOLID TINNED
- COPPER FOR OUTDOOR BTS. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
 ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
 USE OF 90' BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45' BENDS CAN BE ADEQUATELY SUPPORTED.
 EXCITHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.

- ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.

 COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.

 ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
- APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.

- APPROVED ANTIONIDANT COATINGS (I.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.

 ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.

 MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.

 BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) \$\frac{1}{2}\$ BARE SOLID TINNED COPPER GROUND CONDUCTOR.

 GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL COODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

 ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE \$\frac{1}{2}\$ BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT THE EXPONSED BUD OF THE CONDUIT WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT THE EXPONSED BUD OF THE CONDUIT WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT THE EXPONSED BUD OF THE CONDUIT WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT THE EXPONSED BUD OF THE CONDUIT WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT THE EXPONSED BUD OF THE CONDUIT WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT THE EXPONSED BUD OF THE CONDUIT WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT THE EXPONSED BUD OF THE CONDUIT WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT THE EXPONSED BUD OF THE CONDUIT WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT THE EXPONSED BUD OF THE CONDUIT WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT THE EXPONSED BUD OF THE WEIGHT CAND THE PROVINCE OF THE WEIGHT CAND THE PROVINCE OF
- POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
 BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO
- THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY).

ELECTRICAL INSTALLATION NOTES:

- LELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE
- FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
 CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED
- AND TRIP HAZARDS ARE FLIMINATED WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.

- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
 ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
 ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO
 REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
 ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT
 CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERYIFY AVAILABLE SHORT CIRCUIT CURRENT DOES
 NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT
 APOSTED CODE BYE THE COVERBER THE SOLVEDUING UNISPORTED. ADOPTED CODE PRE THE GOVERNING JURISDICTION.
 EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE
- LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV
- PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
 ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
- PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
 ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
 ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER)
 WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

 POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS
- OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN—2, XHHW, XHHW—2, THW, THW—2, RHW, OR RHW—2 INSULATION UNLESS OTHERWISE SPECIFIED. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP—STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS ANI BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75' C (90' C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL. ANSI/IEEE
- ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOI
- EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT) OR METAL—CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.

 SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT
- 18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION
- LUCIDETICAL PLEASE MELALLE CONDUIT (LUCIDETITE PLEX) SHALL BE USED INDOORS AND COLDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.

 CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION—TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- 20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND
- WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS

- WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREWAY).

 SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).

 CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS, EXPLOSIVE DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES, CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CELLING LINES. ALL CONDUITS SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE PLASTER OR DIST FROM ENTERING. CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE PLASTER OR DIST FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED
- PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY—COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.
- METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
- NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
- 27.
- THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC.
 BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
 THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.

 INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "AT&T".
- ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

CONDUCTOR COLOR CODE							
SYSTEM	CONDUCTOR	COLOR					
	A PHASE	BLACK					
120/240V, 1Ø	B PHASE	RED					
120/2400, 10	NEUTRAL	WHITE					
	GROUND	GREEN					
	A PHASE	BLACK					
	B PHASE	RED					
120/208V, 3Ø	C PHASE	BLUE					
	NEUTRAL	WHITE					
	GROUND	GREEN					
	A PHASE	BROWN					
	B PHASE	ORANGE OR PURPLE					
277/480V, 3Ø	C PHASE	YELLOW					
	NEUTRAL	GREY					
	GROUND	GREEN					
DC_VOLTAGE	POS (+)	RED**					
DC VOLIAGE	NEG (-)	BLACK**					

SEE NEC 210.5(C)(1) AND (2)

YELLOW GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS

POTABLE WATER

SEWERS AND DRAIN LINES

ΔΝΙΤΕΝΝΙΔ

UMTS W P

EXISTING FACILITY INTERFACE FRAME GEN GPS GSM LTE MGB MW (N) NEC GENERATOR GLOBAL POSITIONING SYSTEM GLOBAL SYSTEM FOR MOBILE LONG TERM EVOLUTION MASTER GROUND BAR MICROWAVE NEW NATIONAL ELECTRIC CODE (P) PROPOSED POWER PLANT QTY RECT QUANTITY RECTIFIER RADIO BASE STATION REMOTE ELECTRIC TIL RFDS RRH RRU SIAD TMA TYP REMOTE ELECTRIC TILL
RADIO FREQUENCY DATA SHEET
REMOTE RADIO HEAD
REMOTE RADIO UNIT
SMART INTEGRATED DEVICE TOWER MOUNTED AMPLIFIER

UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM

APWA UNIFORM COLOR CODE:

WHITE PROPOSED EXCAVATION TEMPORARY SURVEY MARKINGS ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES

COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS

RECLAIMED WATER, IRRIGATION, AND SLURRY LINES





CLIFTON PARK, NY 12065



AT&T SITE NUMBER: 45340

BU #: 876384 WESTBROOK / ORSINA

798 TOBY HILL ROAD WESTBROOK, CT 06498

EXISTING 150'-0" MONOPOLE

	ISSUED FOR:									
REV	DATE	DRWN	DESCRIPTION	DES./0						
Α	10/30/20	AMM	PRELIMINARY	RO						
0	11/19/20	TMP	CONSTRUCTION	MEP						

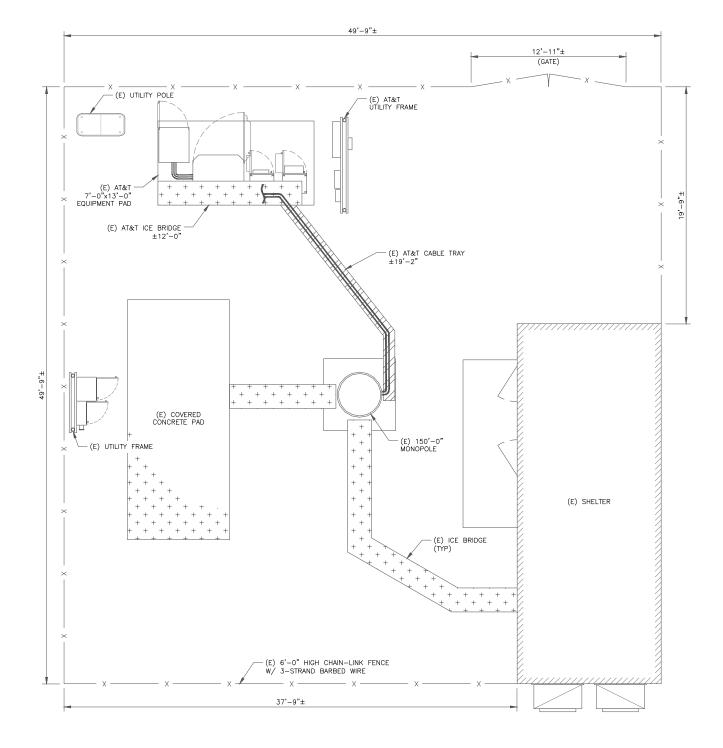


11/19/2020

UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. TO ALTER THIS DOCUMENT

SHEET NUMBER:

DigiSigner Decument ID: 60b046c1 385a 450c 92db 89091d8152c0









11490 BLUEGRASS PKWY LOUISVILLE, KY 40299 502-437-5252

AT&T SITE NUMBER: **45340**

BU #: 876384 Westbrook / Orsina

798 TOBY HILL ROAD WESTBROOK, CT 06498

EXISTING 150'-0" MONOPOLE

	ISSUED FOR:							
REV	DATE	DRWN	DESCRIPTION	DES./QA				
Α	10/30/20	AMM	PRELIMINARY	RO				
0	11/19/20	TMP	CONSTRUCTION	MEP				



11/19/2020

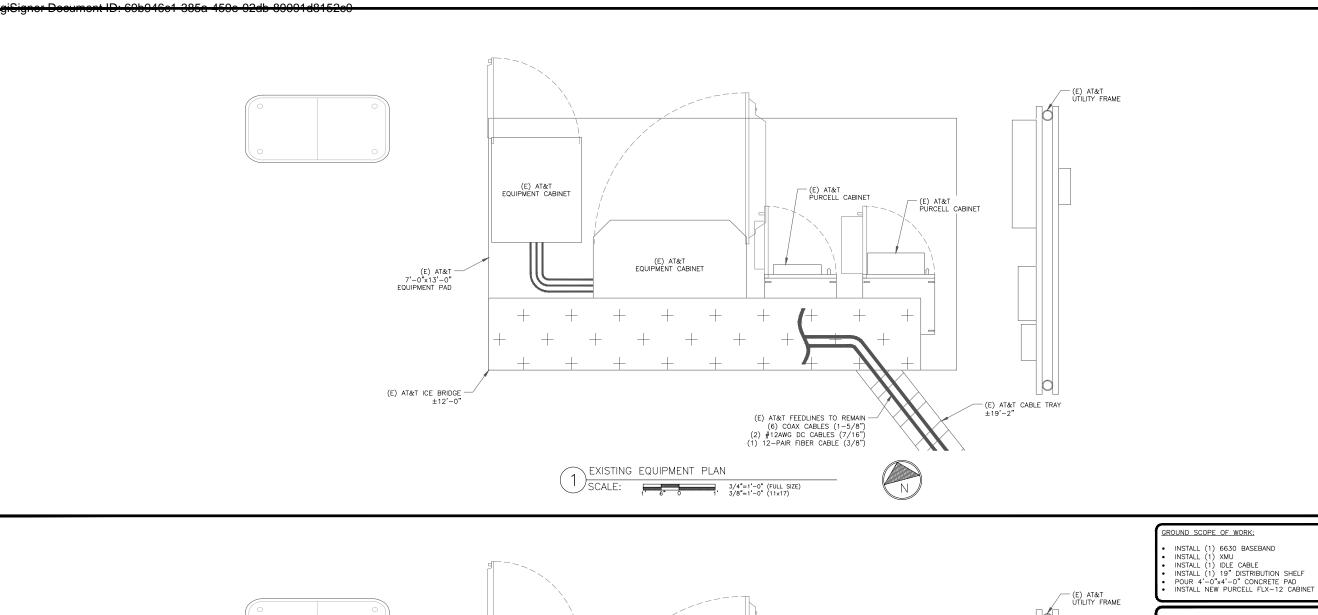
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REVISION:

SHEET NUMBER:











CLIFTON PARK, NY 12065

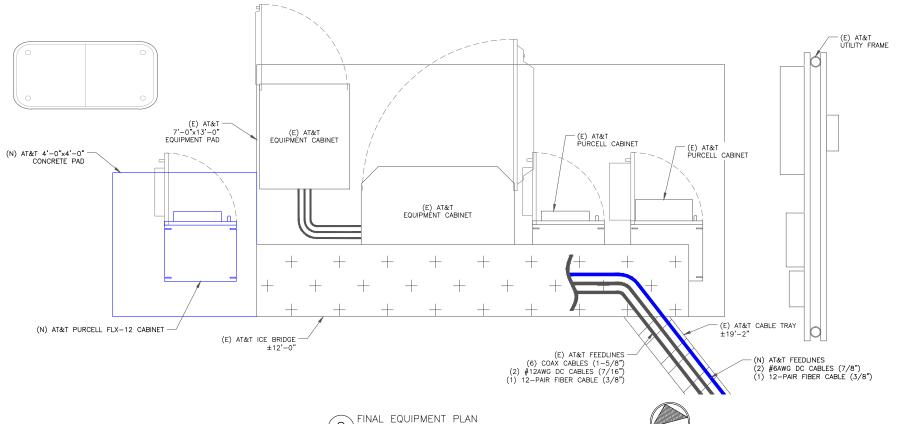


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BU #: **876384** WESTBROOK / ORSINA

798 TOBY HILL ROAD WESTBROOK, CT 06498

EXISTING 150'-0" MONOPOLE

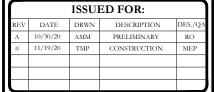


 $(2)_{\text{SCALE}}^{\text{TINAL II}}$

GROUND SCOPE OF WORK:

- INSTALL (1) 6630 BASEBAND

THE POWER DESIGN FOR ANY AC ELECTRICAL POWER CHANGES IS TO BE PERFORMED BY OTHERS AND IS SHOWN HERE FOR REFERENCE PURPOSES ONLY. AT&T IS SOLELY RESPONSIBLE FOR THE ELECTRICAL POWER DESIGN.

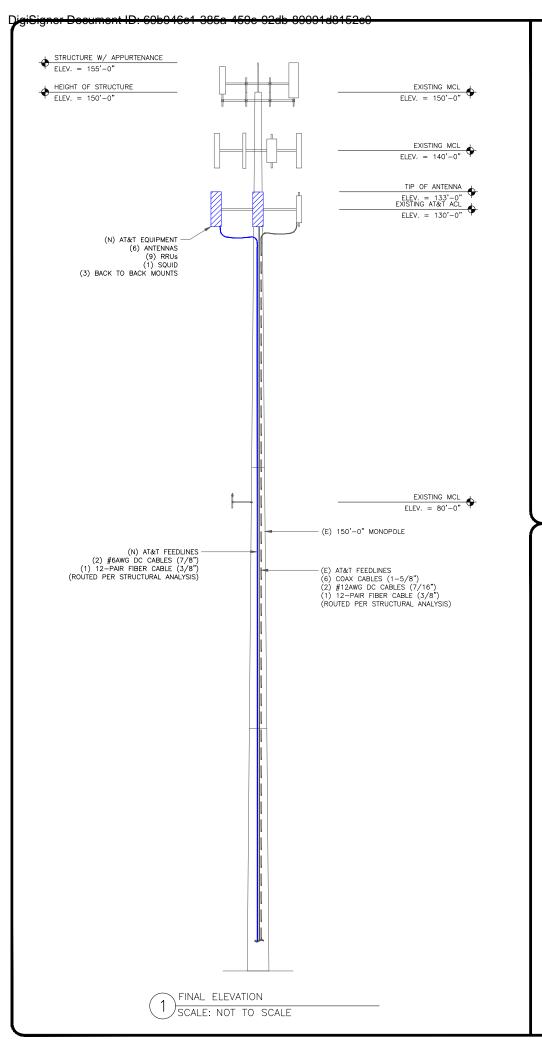


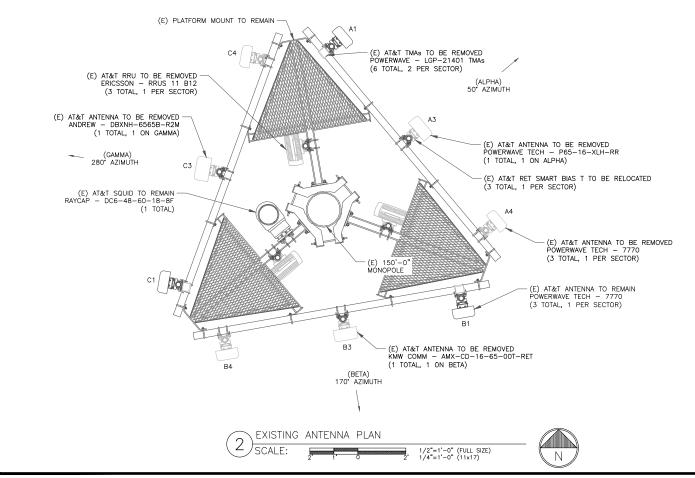


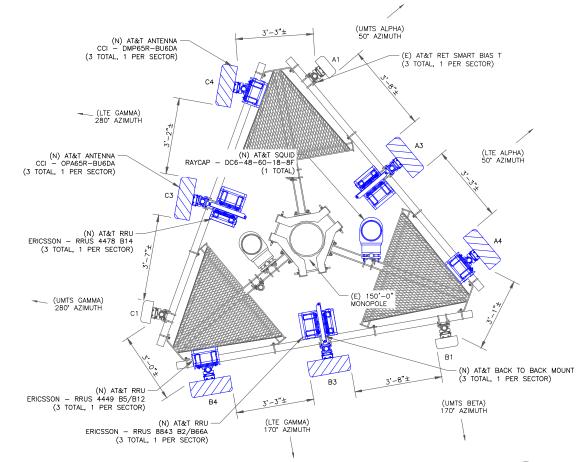
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SHEET NUMBER:







3) SCALE:

"LOOK UP" - CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT:

SAFETY CLIMB REQUIREMENT:

THE INTEGRITY OF THE SAFETY CLIMB AND ALL
COMPONENTS OF THE CLIMBING FACILITY SHALL BE
CONSIDERED DURING ALL STAGES OF DESIGN,
INSTALLATION, AND INSPECTION. TOWER MODIFICATION,
MOUNT REINFORCEMENTS, AND/OR EQUIPMENT
INSTALLATIONS SHALL NOT COMPROMISE THE
INTEGRITY OR FUNCTIONAL USE OF THE SAFETY
CLIMB OR ANY COMPONENTS OF THE CLIMBING
FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE,
BUT NOT BE LIMITED TO: PINCHING OF THE WIRE
ROPE, BEDDING OF THE WIRE ROPE FROM ITS
SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY
TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL
WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY
WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY
COMPROMISED SAFETY CLIMB, INCLUDING EXISTING
CONDITIONS MUST BE TAGGED OUT AND REPORTED
TO YOUR CROWN CASTLE USA INC. POC OR CALL
THE NOC TO GENERATE A SAFETY CLIMB
MAINTENANCE AND CONTRACTOR NOTICE TICKET.

INSTALLER NOTES:

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- REFERENCE C-3 FOR FINAL EQUIPMENT

- REFERENCE C-3 FOR FINAL EQUIPMENT SCHEDULE.
 REFERENCE C-4 FOR NEW EQUIPMENT SPECIFICATIONS.
 CONTRACTOR TO VERIFY ALL ANTENNA TIP HEIGHTS DO NOT EXCEED BEACON BASE HEIGHT.
- 3'-0" MINIMUM DISTANCE REQUIRED BETWEEN
- 5-0 MINIMUM DISTANCE REQUIRED BETWEEN LTE ANTENNAS ON SAME SECTOR. 6'-0" MINIMUM DISTANCE REQUIRED BETWEEN 700BC & 700DE ANTENNAS ON SAME SECTOR.
- 4'-0" MINIMUM DISTANCE REQUIRED BETWEEN LTE 700 ANTENNAS ON OPPOSING SECTORS. ALL ANTENNA MEASUREMENT DISTANCES MUST BE EDGE TO EDGE (RELOCATE ANTENNAS AS
- 8" MINIMUM DISTANCE REQUIRED BETWEEN ANTENNA & RADIO, SEE GENERIC EXAMPLE DETAIL ON SHEET C-4.





CLIFTON PARK, NY 12065



AT&T SITE NUMBER: 45340

BU #: **876384** WESTBROOK / ORSINA

798 TOBY HILL ROAD WESTBROOK, CT 06498

EXISTING 150'-0" MONOPOLE

	ISSUED FOR:							
REV	DATE	DRWN	DESCRIPTION	DES./QA				
Α	10/30/20	AMM	PRELIMINARY	RO				
0	11/19/20	TMP	CONSTRUCTION	MEP				



11/19/2020

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REVISION:

SHEET NUMBER:

ΔΙ ΡΗΔ	FINAL EQUIPMENT SCHEDULE (VERIFY WITH CURRENT RFDS)																	
ALITIA		ANTENNA				RADIO			DIPLEXER			TMA		SURGE PROTECTION CABLES				
POSITION	TECH.	STATUS/MANUFACTURER MODEL	AZIMUTH	RAD CENTER	QTY.	STATUS/MODEL	LOCATION	QTY.	STATUS	LOCATION	QTY.	STATUS	QTY.	STATUS/MODEL	QTY.	STATUS/TYPE	SIZE	LENGTH
A1	UMTS 850/PCS	(E) POWERWAVE TECH 7770	50°	130'-0"	-	-	-	2	(E)	GROUND	-	-	-	-	2	(E) COAX	1-5/8"	180'-0"
A2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LTE	(N) CCI			1	(N) RRUS 4478 B14	TOWER							<u> </u>	2	(E) DC	#12AWG	180'-0"
A3	LTE 700/PCS	(N) CCI OPA65R-BU6DA	50°	130'-0"	1	(N) RRUS 8843 B2/B66A	TOWER	-	_	_	-	-	1	(E) DC6-48-60-18-8F	1	(E) FIBER	12-PAIR	180'-0"
A4	LTE 700/AWS, LTE/5G 850	(N) CCI DMP65R-BU6DA	50*	130'-0"	1	(N) RRUS 4449 B5/B12	TOWER	-	-	-	-	-	-	-	-	-	-	-
BETA																		
B1	UMTS 850/PCS	(E) POWERWAVE TECH 7770	170°	130'-0"	-	-	-	2	(E)	GROUND	-	-	-	-	2	(E) COAX	1-5/8"	180'-0"
B2	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-
	LTE	(N) CCI	470	.70' 0"	1	(N) RRUS 4478 B14	TOWER		_	_		_		(N) DC6-48-60-18-8F	2	(N) DC	#6AWG	180'-0"
B3	700/PCS	(N) CCI OPA65R-BU6DA	170°	130'-0"	1	(N) RRUS 8843 B2/B66A	TOWER	-	-	_	-	_	1	(N) DC0-48-00-18-8F	1	(N) FIBER	12-PAIR	180'-0"
B4	LTE 700/AWS, LTE/5G 850	(N) CCI DMP65R-BU6DA	170°	130'-0"	1	(N) RRUS 4449 B5/B12	TOWER	-	-	-	1	-	-	-	-	-	-	-
GAMMA	GAMMA																	
C1	UMTS 850/PCS	(E) POWERWAVE TECH 7770	280°	130'-0"	-	-	-	2	(E)	GROUND	-	-	-	-	2	(E) COAX	1-5/8"	180'-0"
C2	-	-	-	_	-	-	ı	-	-	-	-	-	_	_	-	_	-	-
0.7	LTE	(N) CCI	380*	170' 0"	1	(N) RRUS 4478 B14	TOWER					_			_			
C3	700/PCS	(N) CCI OPA65R-BU6DA	280°	130'-0"	1	(N) RRUS 8843 B2/B66A	TOWER		_	_	_						-	_
C4	LTE 700/AWS, LTE/5G 850	(N) CCI DMP65R-BU6DA	280°	130'-0"	1	(N) RRUS 4449 B5/B12	TOWER	_	-	-	-	-	-	-	-	-	-	-
NOTE:						·												

(E) - EXISTING (N) - NEW

FINAL EQUIPMENT SCHEDULE SCALE: NOT TO SCALE







AT&T SITE NUMBER: **45340**

BU #: **876384** WESTBROOK / ORSINA

798 TOBY HILL ROAD WESTBROOK, CT 06498

EXISTING 150'-0" MONOPOLE

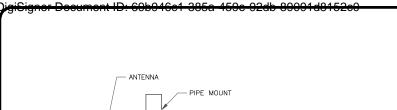
_								
ISSUED FOR:								
REV	DATE	DRWN	DESCRIPTION	DES./QA				
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0	11/19/20	TMP	CONSTRUCTION	MEP				

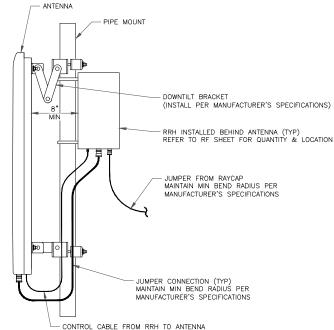


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SHEET NUMBER:





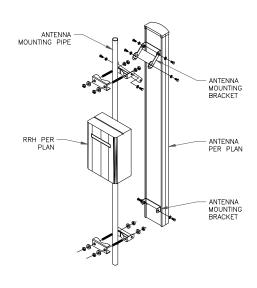
GENERIC ANTENNA MOUNTING ELEVATION SCALE: NOT TO SCALE

INSTALLER NOTES

- . COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHS RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE
- MANUFACTURER'S PACKAGING.

 2. DO NOT OPEN RRH PACKAGES IN THE RAIN.

 3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.

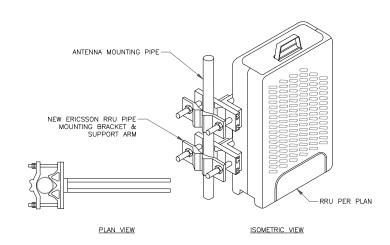


ANTENNA WITH RRH MOUNTING DETAIL (4) SCALE: NOT TO SCALE

ERICSSON RRU MOUNTING KIT:

SXK 107 2839/1: SINGLE RRU SUPPORT KIT (PART # 5335) (OR ENGINEER APPROVED EQUIVALENT) SXK 107 2839/2: EXPANSION KIT (PART # 5336) (OR ENGINEER APPROVED EQUIVALENT)

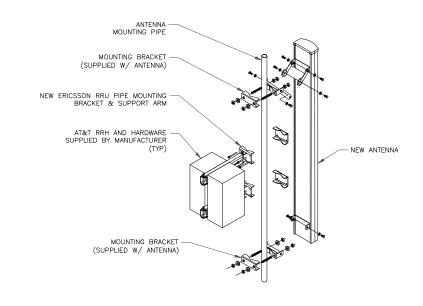
REFER TO PRODUCT SPECS FOR BOLT SIZE & PIPE DIAMETER TOLERANCES. THE PART NO. SXK107-2839/2 IS REQUIRED FOR (2) RRUS.



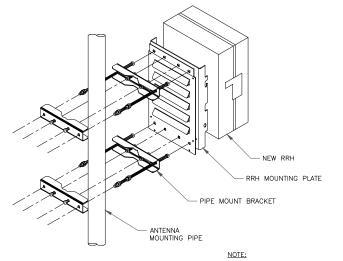
ERICSSON - SXK 107 2839 SCALE: NOT TO SCALE

INSTALLER NOTES:

- . COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHS RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE
- HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING. DO NOT OPEN RRH PACKAGES IN THE RAIN LALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



ANTENNA WITH DUAL RRH MOUNTING DETAIL (5) SCALE: NOT TO SCALE



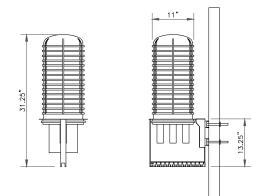
ANTENNA NOT SHOWN FOR CLARITY

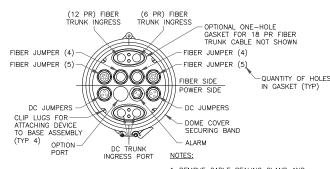
SINGLE RRH MOUNTING DETAIL SCALE: NOT TO SCALE

DC6-48-60-18-8F

RAYCAP - DC6-48-60-18-8F SIZE: 11x31.25 IN. WEIGHT: 32.8 LBS NOMINAL OPERATING VOLTAGE: 48 VDC VOLTAGE PROTECTION RATING: 400 V WIND LOADING: 150 MPH SUSTAINED (105.7 LBS)
WIND LOADING: 195 MPH GUST (213.6 LBS)

CONTRACTOR TO USE "THREAD LUBRICANT" ON MOUNTING BOLTS DURING INSTALLATION





1. REMOVE CABLE SEALING GLAND AND INSTALL M32×1.5 METRIC-TO-1" NPT ADAPTER (COOPER CROUSE—HINES P/N CAP 740 994 OR EQUIVALENT MFR) WHEN CONNECTING CONDUIT TO OVP.

SQUID MOUNTING DETAIL (6) SCALE: NOT TO SCALE







AT&T SITE NUMBER: 45340

BU #: **876384** WESTBROOK / ORSINA

798 TOBY HILL ROAD WESTBROOK, CT 06498

EXISTING 150'-0" MONOPOLE

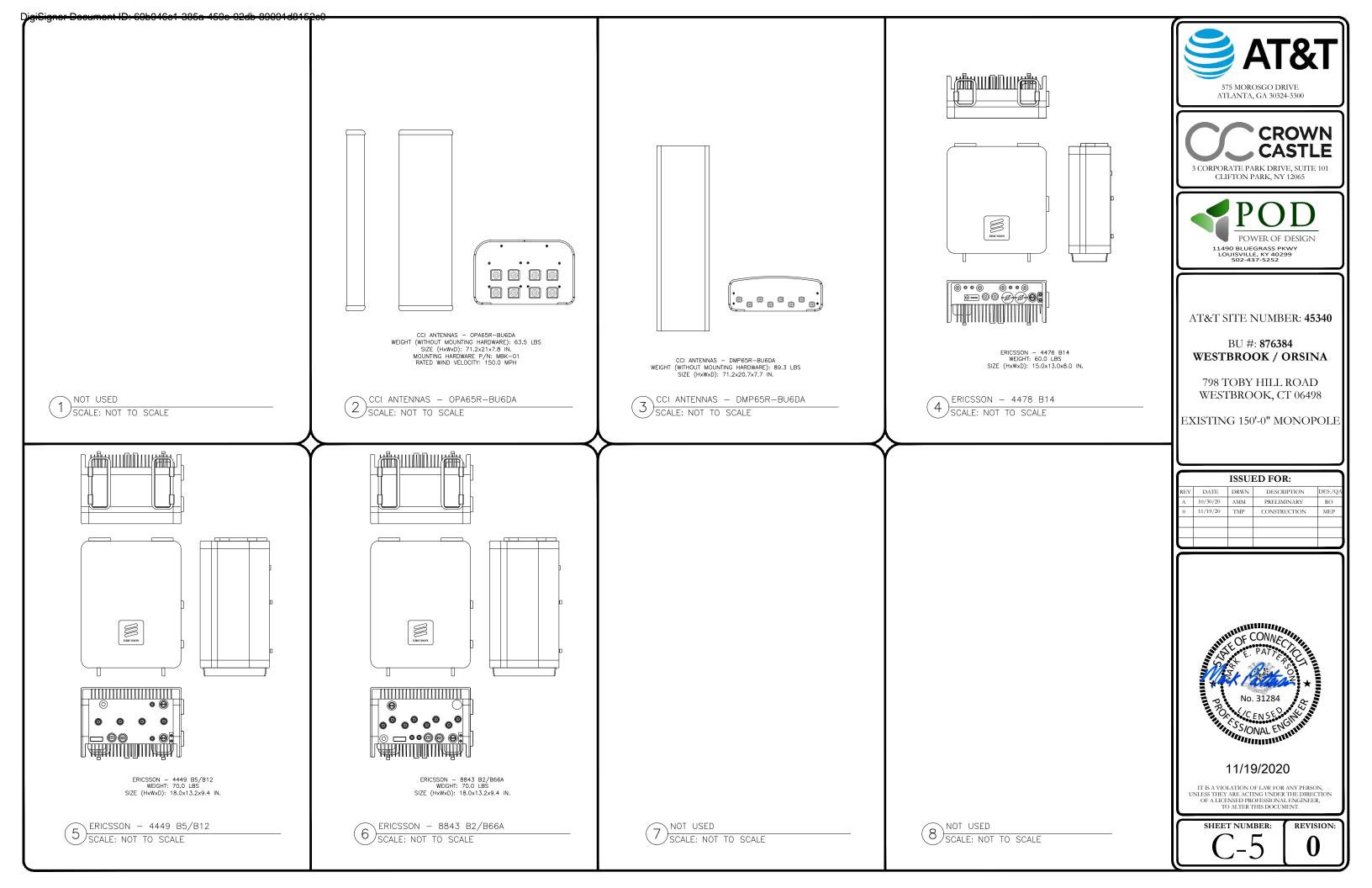
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REV	DATE	DRWN	DESCRIPTION	DES./QA				
Α	10/30/20	AMM	PRELIMINARY	RO				
0	11/19/20	TMP	CONSTRUCTION	MEP				

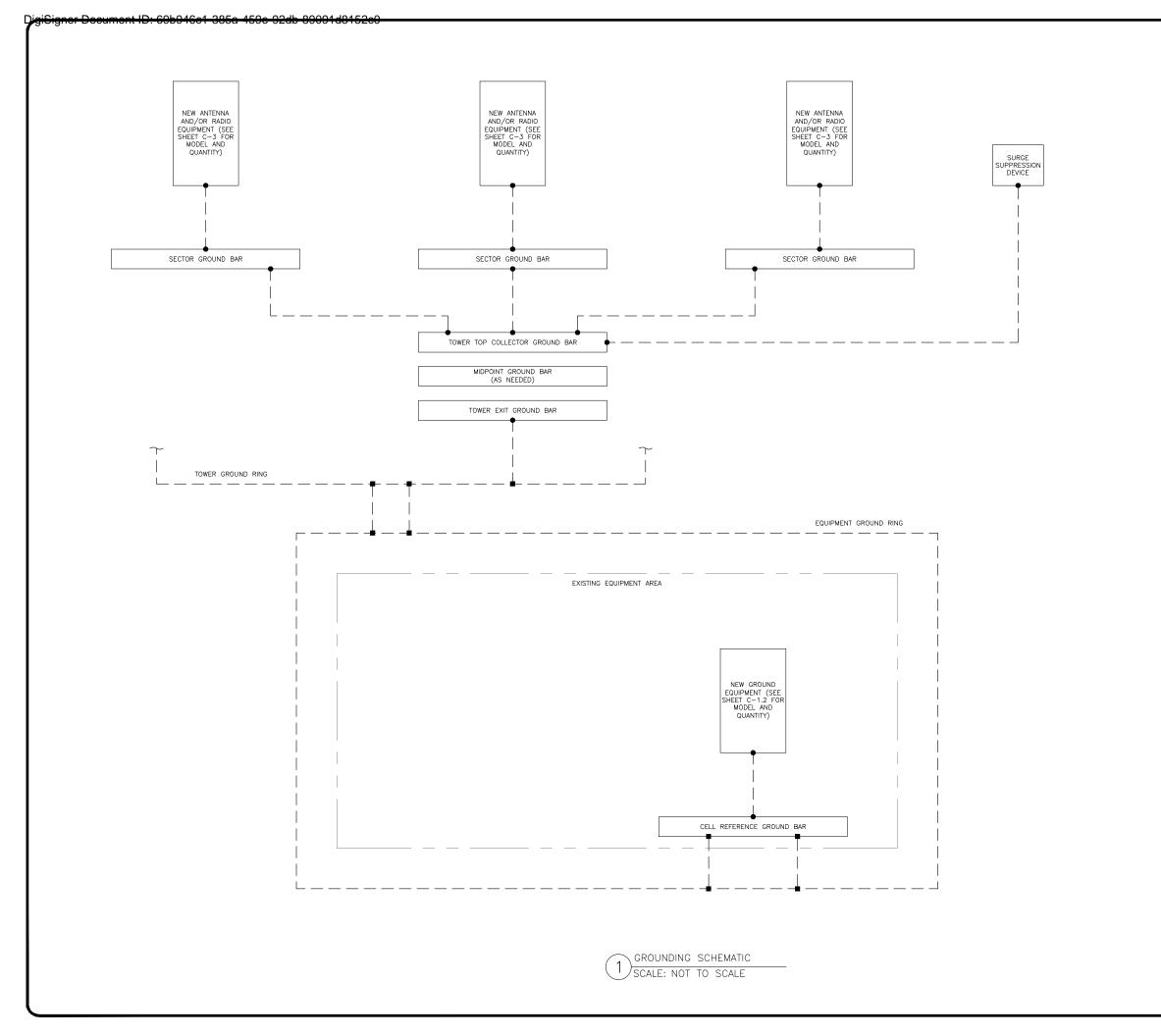


11/19/2020

UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER:





GROUNDING PLAN LEGEND:

--- GROUND WIRE

COPPER GROUND ROD

■ EXOTHERMIC WELD

MECHANICAL CONNECTION

S GROUND ROD W/ TEST WELL

CELL REFERENCE GROUND BAR: POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUITS (ATT—TP—76416 7.6.7).

HATCH PLATE GROUND BAR: BOND TO THE INTERIOR GROUND RING WITH (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CELL SITE REFERENCE GROUND BAR MUST BE CONNECTED TO THE HATCH-PLATE AND TO THE INTERIOR GROUND RING USING (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS.

EXTERIOR CABLE ENTRY PORT GROUND BARS:
LOCATED AT THE ENTRANCE TO THE CELL SITE
BUILDING. BOND TO GROUND RING WITH A #2 SOLID
TINNED COPPER CONDUCTORS WITH AN EXOTHERMIC
WELD AND INSPECTION SLEEVE (ATT-TP-76416
7.6.7.2).

DURING ALL DC POWER SYSTEM CHANGES INCLUDING DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS OR ADDITIONS, BREAKER DISTRIBUTION CHANGES, BATTERY ADDITIONS, BATTERY REPLACEMENTS AND INSTALLATIONS OR CHANGES TO DC CONVERTER SYSTEMS IT SHALL BE REQUIRED THAT SERVICES CONTRACTORS VERIFY ALL DC POWER SYSTEMS ARE EQUIPPED WITH MASTER DC SYSTEM RETURN GROUND CONDUCTOR FROM THE DC POWER SYSTEM COMMON RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE REFERENCE GROUND BAR PER TP76300 SECTION H 6 AND TP76416 FIGURE 7-11 REQUIREMENTS.



575 MOROSGO DRIVE ATLANTA, GA 30324-3300



CLIFTON PARK, NY 12065



POWER OF DESIGN 11490 BLUEGRASS PKWY LOUISVILLE, KY 40299 502-437-5252

AT&T SITE NUMBER: **45340**

BU #: 876384 Westbrook / Orsina

798 TOBY HILL ROAD WESTBROOK, CT 06498

EXISTING 150'-0" MONOPOLE

	ISSUED FOR:						
REV	DATE	DRWN	DESCRIPTION	DES./QA			
Α	10/30/20	AMM	PRELIMINARY	RO			
0	11/19/20	TMP	CONSTRUCTION	MEP			

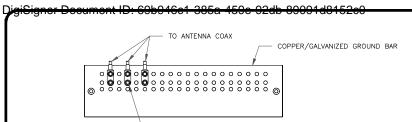


11/19/2020

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

SHEET NUMBER:

G-1

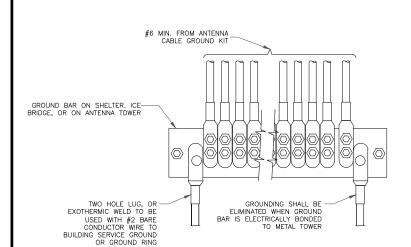


TWO HOLE LONG BARREL

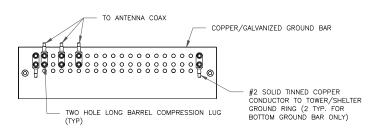
COMPRESSION LUG (TYP)

- DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
 EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

ANTENNA SECTOR GROUND BAR DETAIL SCALE: NOT TO SCALE

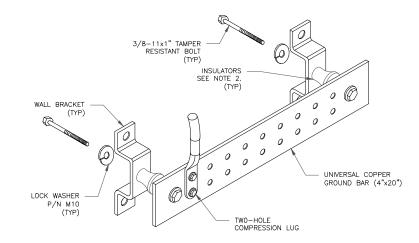


GROUNDWIRE INSTALLATION 4) SCALE: NOT TO SCALE



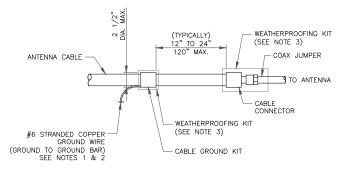
- EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
 GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

TOWER/SHELTER GROUND BAR DETAIL SCALE: NOT TO SCALE



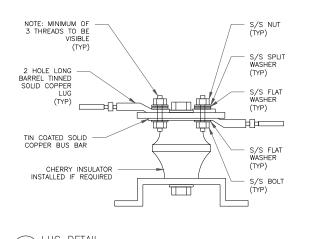
- 1. DOWN LEAD (HOME RUN) CONDUCTORS ARE <u>NOT</u> TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
- 2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

GROUND BAR DETAIL SCALE: NOT TO SCALE



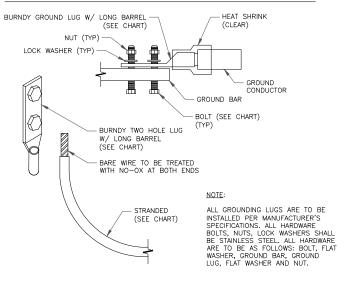
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
 WEATHER PROOFING SHALL BE TWO—PART TAPE KIT, COLD SHRINK SHALL NOT BE

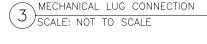
CABLE GROUND KIT CONNECTION (6) SCALE: NOT TO SCALE

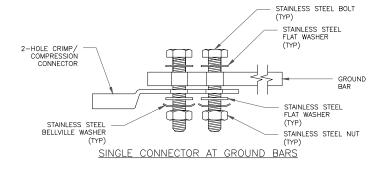


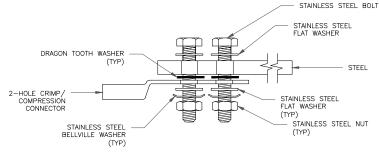
LUG DETAIL (7) SCALE: NOT TO SCALE

WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT

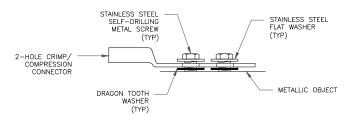








SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

HARDWARE DETAIL FOR EXTERIOR CONNECTIONS SCALE: NOT TO SCALE







AT&T SITE NUMBER: 45340

BU #: **876384** WESTBROOK / ORSINA

798 TOBY HILL ROAD WESTBROOK, CT 06498

EXISTING 150'-0" MONOPOLE

ISSUED FOR:				
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Α	10/30/20	AMM	PRELIMINARY	RO
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-				



11/19/2020

UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER:

Diagram - Sector

Diagram File Name - CT5886_A_B_C__AWS_5G_B14_1900_700BC4T4R_Rev1.vsd

Atoll Site Name - CTL05886 Location Name - WESTBROOK NE Market - CONNECTICUT Market Cluster - NEW ENGLAND

omments: Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna Radio Connection Drawings Playbook v6.0 Ericsson

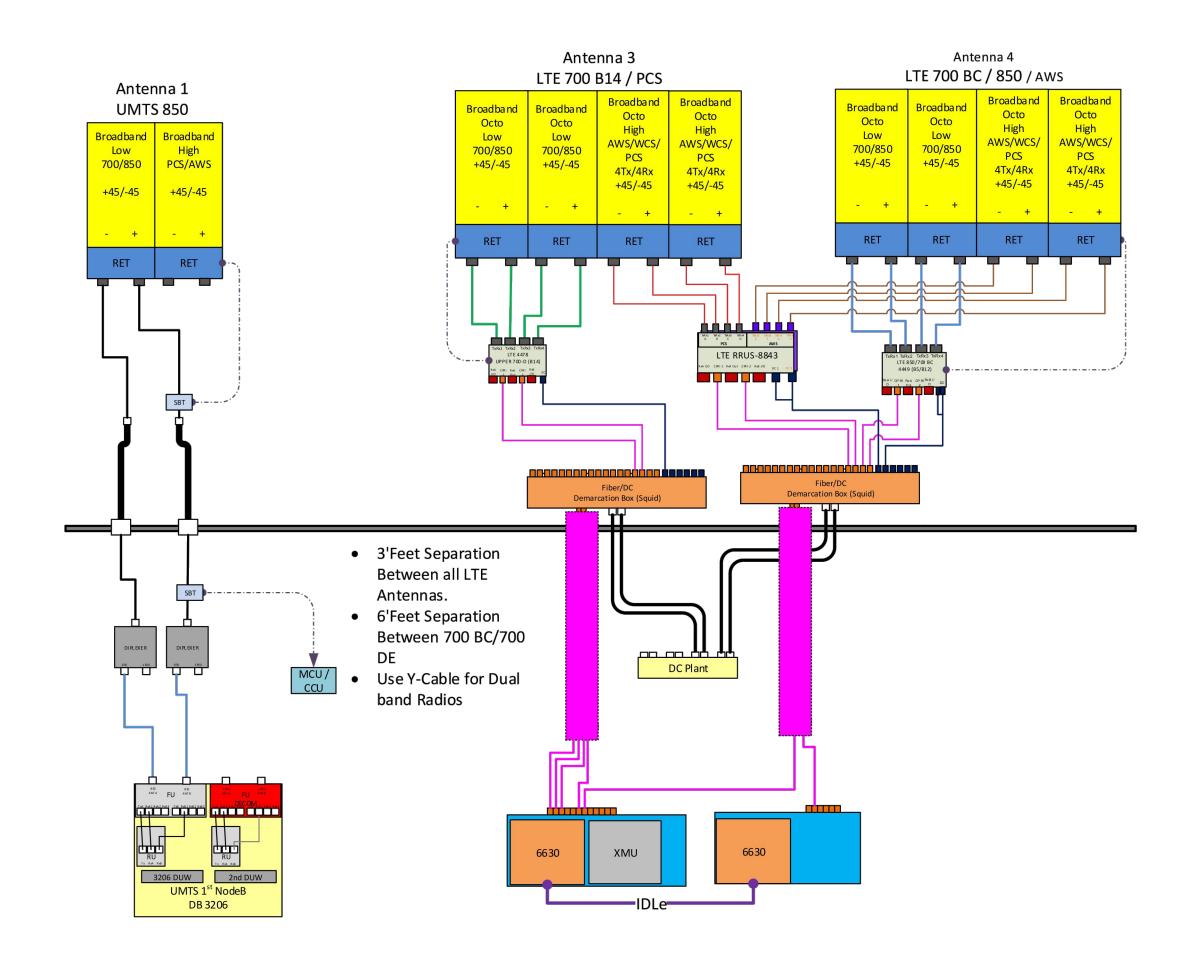


Diagram - Sector B Diagram File Name - CT5886_A_B_C__AWS_5G_B14_1900_700BC4T4R_Rev1.vsd

Atoll Site Name - CTL05886 Location Name - WESTBROOK NE Market - CONNECTICUT Market Cluster - NEW ENGLAND

omments: Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna Radio Connection Drawings Playbook v6.0 Ericsson

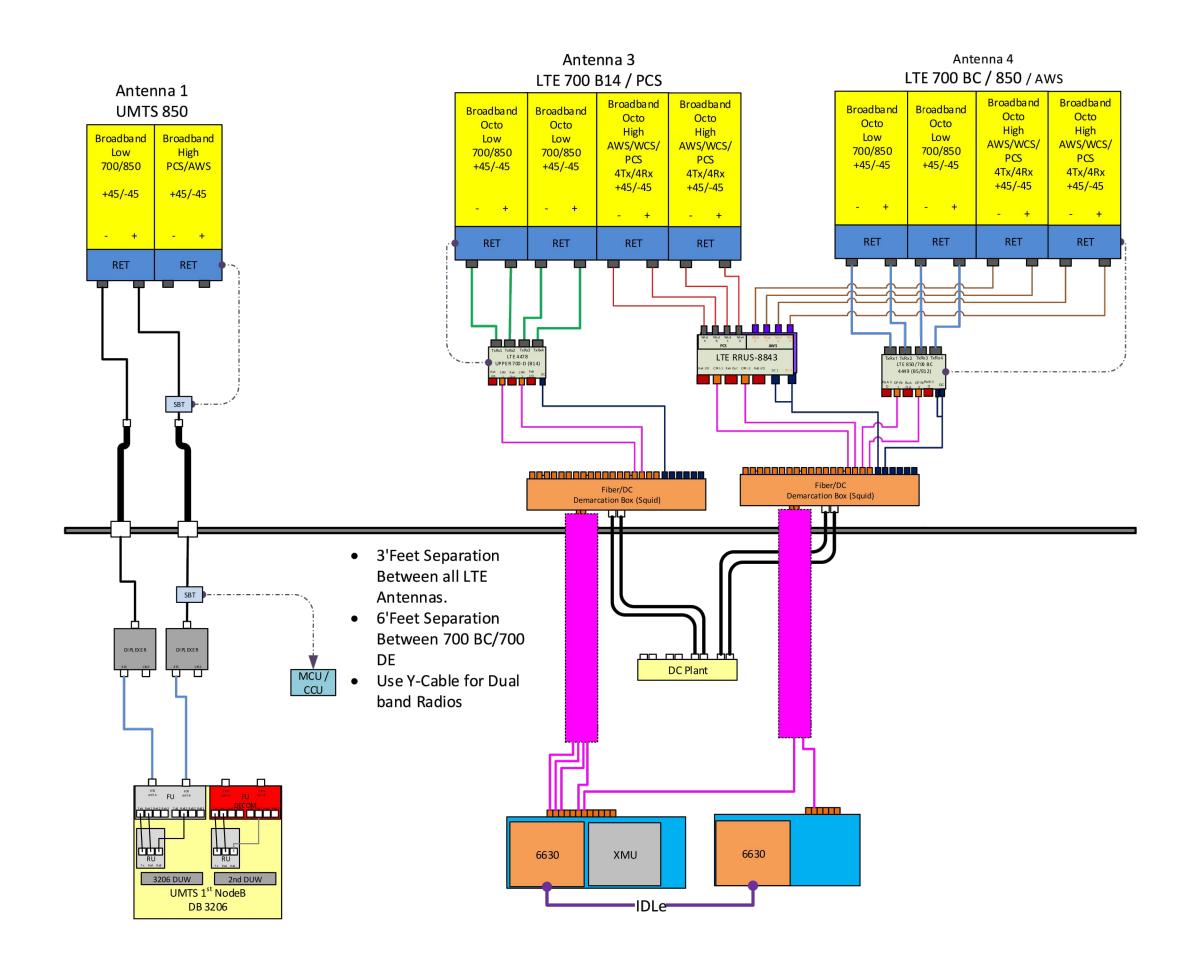


Diagram - Sector

Diagram File Name - CT5886_A_B_C__AWS_5G_B14_1900_700BC4T4R_Rev1.vsd

Atoll Site Name - CTL05886 Location Name - WESTBROOK NE Market - CONNECTICUT Market Cluster - NEW ENGLAND

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