

August 20, 2025

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

**RE: Notice Of Exempt Modification For T-MOBILE
Crown #826927; T-MOBILE Site ID CT11112H
845 Ethan Allen Highway, Ridgefield, CT 06877
Latitude: 41° 18' 46.92"/ Longitude: -73° 28' 20.73"**

Dear Ms. Bachman:

T-Mobile currently maintains six (6) antennas at the 100-foot level of the existing 110-foot monopole tower at 845 Ethan Allen Highway, Ridgefield, CT. The tower is owned by Crown Castle USA Inc. and the property is owned by 845 Wireless Investments. T-Mobile now intends to replace six (6) antennas and ancillary equipment at the 100-foot level, along with ancillary equipment at the ground level. This modification may include B2, B5, B17, B14, B29, B30, B66 & n77 hardware that is 4G(LTE) and/or 5GNR capable through remote software configuration and either or both services may be turned on or off at various times.

Planned Modification:

Tower:

Installed New:

- (1) COMMSCOPE - MC-PK8-DSH PLATFORM MOUNT PER MOUNT ANALYSIS BY TRYLON DATED 05/14/2025
- (3) ERICSSON - 840590966 ANTENNAS
- (3) ERICSSON - AIR6419 B41 ANTENNAS
- (3) ERICSSON - 4480 B71/B85 RADIOS
- (3) ERICSSON - 4460 B25/B66 RADIOS
- (3) RFS/CELWAVE - HYBRID TRUNK 6/24 4AWG CABLES

Remove:

- (6) RFS/CELWAVE - APXV18-206516S-C-A20 ANTENNAS
- (6) ERICSSON - KRY 122 71 TMAS
- (12) COAX CABLES
- (1) COMMSCOPE - MC- PK8-DSH PLATFORM MOUNT PER

Ground:

Install New:

- (1) NEW 18'-0" ICE BRIDGE
- (1) ERICSSON - 6160_V2 AC ENCLOSURE
- (1) ERICSSON - B160 ENCLOSURE
- (1) CSR IXRE V2 (GEN2) TRANSPORT SYSTEM

The Foundation for a Wireless World.

CrownCastle.com

(1) NEMA - 3R HYBRID SLACK BOX ON NEW H-FRAME

Remove:

(11) GENERIC DIPLEXERS

(1) EXISTING \pm 7'-0" ICE BRIDGE

(1) UTILITY FRAME

(1) ERICSSON - RBS 6102 ENCLOSURE

The facility was approved by the Connecticut Siting Council in Docket No. EM-T-MOBILE-118-141027 on November 17, 2014. Said approval given with conditions. T-Mobile's proposed exempt modification complies with the conditions of approval.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §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 Rudy Marconi, First Selectman of the Town of Ridgefield, and the property owner is 845 Wireless Investments, Alice Dew, Director of Planning & Zoning, and Crown Castle is the tower owner.

1. The proposed modifications will not result in an increase in the height of the existing tower.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modification 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 replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, T-Mobile respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Dionne Joubert.

Sincerely,

Dionne Joubert

Dionne Joubert

Site Acquisition Specialist

8020 Katy Freeway,

Houston, TX 77024

(281)749-5071 / dionne.joubert.contractor@crowncastle.com

Melanie A. Bachman

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Attachments

cc:

Rudy Marconi, First Selectman
Town Hall
400 main Street,
Ridgefield, CT 06877
(203) 431-2774

Alice Dew, Director of Planning & Zoning
Town Hall Annex
66 Prospect Street
Second Floor
(203) 431-2766

845 Wireless Investments LLC
107 Lords Hwy,
Weston, CT 06883
(203) 454-3384

Crown Castle, Tower Owner

T-Mobile

BUSINESS UNIT #: 826927
SITE ADDRESS: 845 ETHAN ALLEN HIGHWAY
 RIDGEFIELD, CT 06877
COUNTY: FAIRFIELD
SITE TYPE: MONOPOLE
TOWER HEIGHT: 110'-0"

T-Mobile



T-MOBILE SITE NUMBER:
CT11112H

BU #: 826927
CROWN CASTLE SITE NAME:
REDDING/RT7

845 ETHAN ALLEN HIGHWAY
RIDGEFIELD, CT 06877

EXISTING 110'-0"
MONOPOLE

LOCATION MAP

BMW of Ridgefield

Bennetts Pond State Park

Brick House Wood Fired
Pizza Kitchen & Bar

Hoodoo Brown BBQ

ROUTE 7
GATEWAY

Martin Park Bear

REDDING/RT7
CT11112H

Ridgefield Parks
& Recreation

Aldrich Park

Farmingville Rd

Op & Shop

DIRECTIONS

NO SCALE

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:

REFERENCE DOCUMENTS:

| | |
|----------------------|--------------|
| STRUCTURAL ANALYSIS: | CROWN CASTLE |
| DATED: | 06/11/2025 |
| MOUNT ANALYSIS: | TRYLON |
| DATED: | 05/14/2025 |
| RFDS REVISION: | 6 |
| DATED: | 04/15/2025 |
| ORDER ID: | 708352 |
| REVISION: | 1 |



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:

T-1

REVISION:

0

DRAWING INDEX

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

TOWER SCOPE OF WORK:

- REMOVE (6) RFS/CELWAVE - APXV18-206516S-C-A20 ANTENNAS
- REMOVE (6) ERICSSON - KRY 122 71 TMAS
- REMOVE (12) COAX CABLES
- INSTALL (1) COMMSCOPE - MC-PK8-DSH PLATFORM MOUNT PER MOUNT ANALYSIS BY TRYLON DATED 05/14/2025
- INSTALL (3) ERICSSON - 840590966 ANTENNAS
- INSTALL (3) ERICSSON - AIR6419 B4I ANTENNAS
- INSTALL (3) ERICSSON - 4480 B71/B85 RADIOS
- INSTALL (3) ERICSSON - 4460 B25/B66 RADIOS
- INSTALL (3) RFS/CELWAVE - HYBRID TRUNK 6/24 4AWG CABLES

GROUND SCOPE OF WORK:

- REMOVE (11) GENERIC DIPLEXERS
- REMOVE EXISTING \pm 7'-0" ICE BRIDGE
- REMOVE (1) UTILITY FRAME
- REMOVE (1) ERICSSON - RBS 6102 ENCLOSURE
- INSTALL NEW 18'-0" ICE BRIDGE
- INSTALL (1) ERICSSON - 6160_V2 AC ENCLOSURE
- INSTALL (1) ERICSSON - B160 ENCLOSURE
- INSTALL (1) CSR IXRE V2 (GEN2) TRANSPORT SYSTEM
- INSTALL (1) NEMA - 3R HYBRID SLACK BOX ON NEW H-FRAME

PROJECT TEAM

| | |
|--------------|--|
| A&E FIRM: | POWER OF DESIGN 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40299 (502) 437-5252 |
| CROWN CASTLE | 2000 CORPORATE DRIVE CANONSBURG, PA 15317 |
| CONTACTS: | TRICIA PELON - PROJECT MANAGER TRICIA.PELON@CROWNCastle.COM OLEG GAPANOV - AES OLEG.GAPANOV@CROWNCastle.COM |

PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER.

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11X17.
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!



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 UP" -- CROWN CASTLE USA 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 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 CLIMB 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 REQUIREMENTS.
- 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.
- 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.
- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- 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) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) 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 AND TOWER AREAS.
- 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. 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 OF OWNER.
- 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.

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.
- THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS 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 TESTING RESULTS.
- 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 CLAMPS.
- 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.
- EXOTHERMIC 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.
- ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRIC 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) #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 CODE) 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 #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 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).

GENERAL NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION CARRIER: T-MOBILE
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 DICTATED 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.
- THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, 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.
- 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 DISCREPANCIES 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. 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 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 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, 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.
- 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.
- CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING 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 A DAILY BASIS.

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 PLACEMENT.
- CONCRETE EXPOSED TO FREEZE--THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT IS 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 STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
#4 BARS AND SMALLER..... 40 ksi
#5 BARS AND LARGER..... 60 ksi
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH..... 3"
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 BARS AND LARGER..... 2"
#5 BARS AND SMALLER..... 1-1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
SLAB AND WALLS..... 3/4"
BEAMS AND COLUMNS..... 1-1/2"
- 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.

ELECTRICAL INSTALLATION NOTES:

- ALL ELECTRICAL 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 ELIMINATED.
- 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. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT AND ADOPTED CODE OF 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 AND 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 AND NEC.
- ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT) OR METAL--CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC ON STRAIGHTS AND SCHEDULE 80 PVC UNDER ALL TRAFFIC EASEMENTS AND ALL ELBOWS/90s. ABOVE GRADE CONDUIT TO BE SCH 80 PVC OR IMC/RMC CONDUIT. EMT IS ALLOWED AT STUB UP LOCATIONS AND INDOORS ONLY.
- LIQUID--TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID--TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, 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.
- CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.
- WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOULD SPECIMATE WIREWAY).
- SLOTTED WIRING TUB 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 CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO 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.
- 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 "T-MOBILE".
- ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

| CONDUCTOR COLOR CODE | | |
|----------------------|-----------|---------|
| SYSTEM | CONDUCTOR | COLOR |
| 120/240V, 1Ø | A PHASE | BLACK |
| | B PHASE | RED |
| | NEUTRAL | WHITE |
| | GROUND | GREEN |
| 120/208V, 3Ø | A PHASE | BLACK |
| | B PHASE | RED |
| | C PHASE | BLUE |
| | NEUTRAL | WHITE |
| 277/480V, 3Ø | A PHASE | BLACK |
| | B PHASE | RED |
| | C PHASE | YELLOW |
| | NEUTRAL | GREY |
| DC VOLTAGE | GROUND | GREEN |
| | POS (+) | RED** |
| | NEG (-) | BLACK** |
| | | |

* SEE NEC 210.5(C)(1) AND (2)
** POLARITY MARKED AT TERMINATION

ABBREVIATIONS:

| | |
|------|--|
| ANT | ANTENNA |
| (E) | EXISTING |
| FIF | FACILITY INTERFACE FRAME |
| GEN | GENERATOR |
| GPS | GLOBAL POSITIONING SYSTEM |
| GSM | GLOBAL SYSTEM FOR MOBILE |
| LTE | LONG TERM EVOLUTION |
| MGB | MASTER GROUND BAR |
| MW | MICROWAVE |
| (N) | NEW |
| NEC | NATIONAL ELECTRIC CODE |
| (P) | PROPOSED |
| PP | POWER PLANT |
| QTY | QUANTITY |
| RECT | RECTIFIER |
| RBS | RADIO BASE STATION |
| RET | REMOTE ELECTRIC TILT |
| RFDS | RADIO FREQUENCY DATA SHEET |
| RRH | REMOTE RADIO HEAD |
| RRU | REMOTE RADIO UNIT |
| SIAD | SMART INTEGRATED DEVICE |
| TMA | TOWER MOUNTED AMPLIFIER |
| TYP | TYPICAL |
| UMTS | UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM |
| W.P. | WORK POINT |

APWA UNIFORM COLOR CODE:

| | |
|--------|--|
| WHITE | PROPOSED EXCAVATION |
| PINK | TEMPORARY SURVEY MARKINGS |
| RED | ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES |
| YELLOW | GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS |
| ORANGE | COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS |
| BLUE | POTABLE WATER |
| PURPLE | RECLAIMED WATER, IRRIGATION, AND SLURRY LINES |
| GREEN | SEWERS AND DRAIN LINES |

T Mobile

CROWN CASTLE

POD
POWER OF DESIGN

11490 BLUEGRASS PKWY
LOUISVILLE, KY 40299

T-MOBILE SITE NUMBER:
CT11112H

BU #: 826927
CROWN CASTLE SITE NAME:
REDDING/RT7

845 ETHAN ALLEN HIGHWAY
RIDGEFIELD, CT 06877

EXISTING 110'-0"
MONOPOLE

ISSUED FOR:

| REV | DATE | DRWN | DESCRIPTION | DES./QA |
|-----|------------|------|--------------|---------|
| 0 | 06/30/2025 | EC | CONSTRUCTION | MEP |
| | | | | |
| | | | | |
| | | | | |
| | | | | |



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SHEET NUMBER:

T-2

REVISION:

0

EQUIPMENT LEGEND:

EXISTING

TO BE RELOCATED/REMOVED

NEW/RELOCATED



T-MOBILE SITE NUMBER:
CT11112H

BU #: 826927
CROWN CASTLE SITE NAME:
REDDING/RT7

845 ETHAN ALLEN HIGHWAY
RIDGEFIELD, CT 06877

EXISTING 110'-0"
MONOPOLE

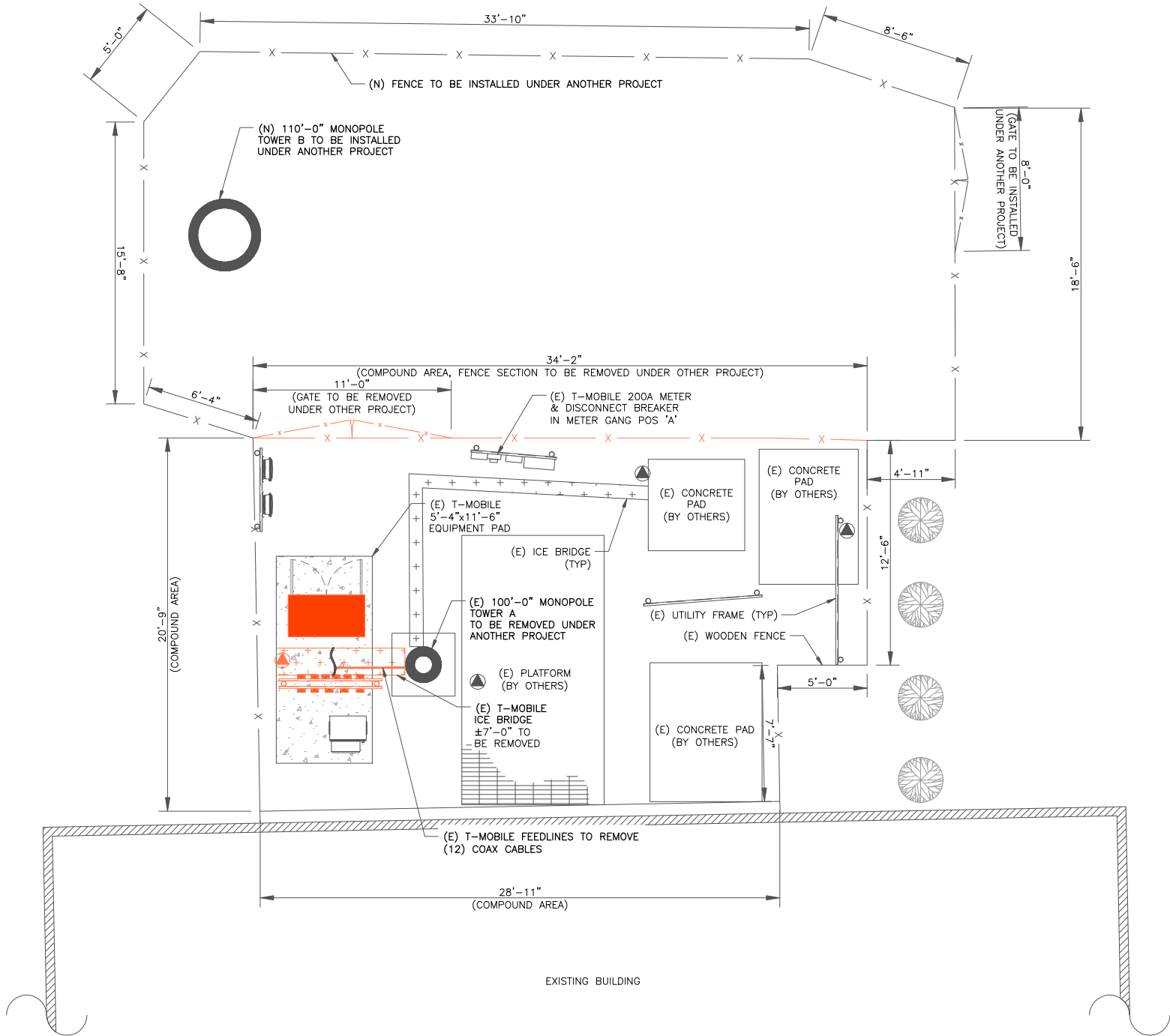
ISSUED FOR:

| REV | DATE | DRWN | DESCRIPTION | DES./QA |
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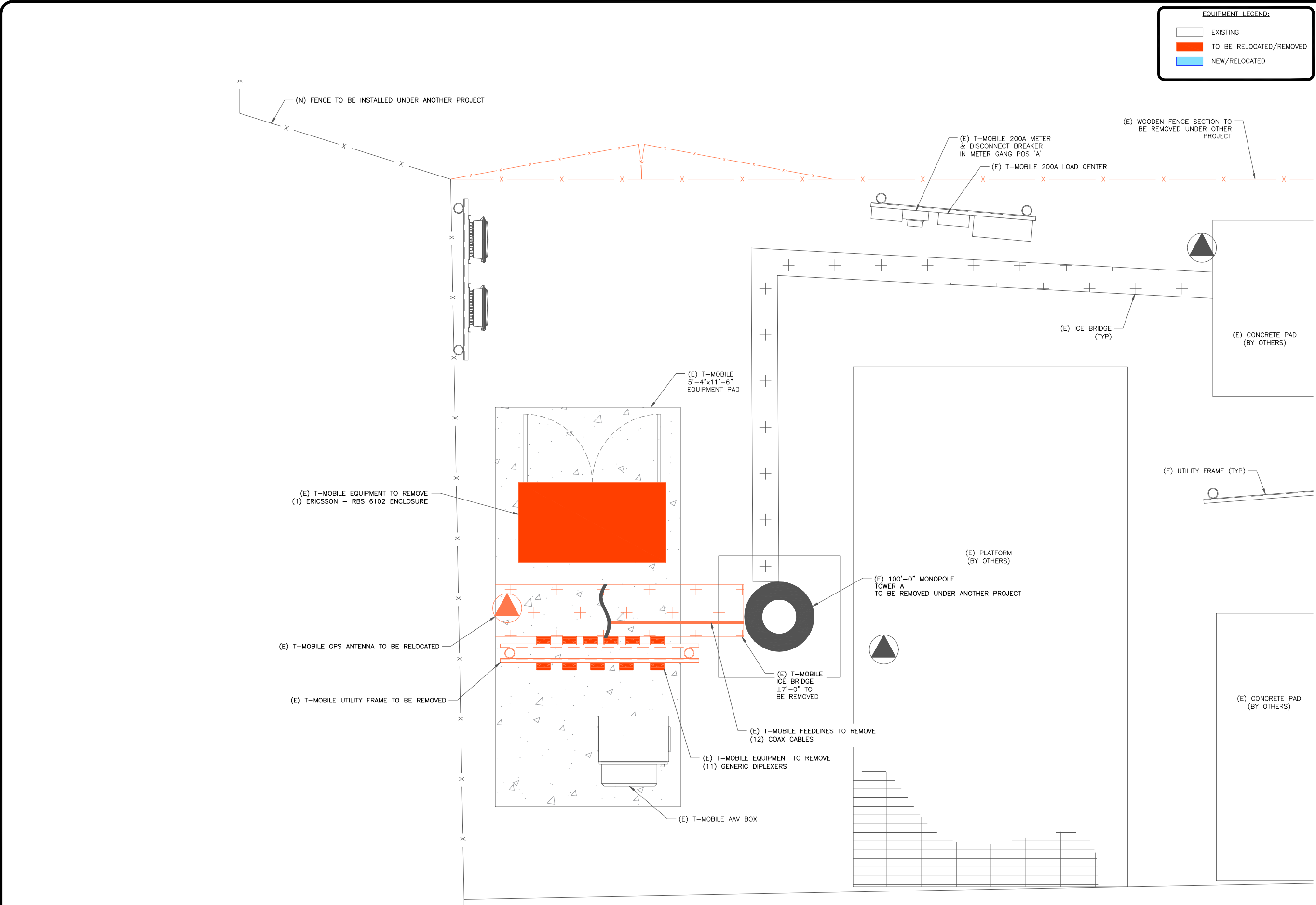
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COMPOUND PLAN

SCALE: 1/4"=1'-0" (FULL SIZE)
1/8"=1'-0" (11x17)



CC-T-MOBILE NATIONAL ANTENNA AMENDMENT_2025-06-12



11490 BLUEGRASS PKWY
LOUISVILLE, KY 40299

T-MOBILE SITE NUMBER:
CT11112H

BU #: **826927**
CROWN CASTLE SITE NAME:
REDDING/RT7

845 ETHAN ALLEN HIGHWAY
RIDGEFIELD, CT 06877

EXISTING 110'-0"
MONOPOLE

ISSUED FOR:

| REV | DATE | DRWN | DESCRIPTION | DES./QA |
|-----|------------|------|--------------|---------|
| 0 | 06/30/2025 | EC | CONSTRUCTION | MEP |
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SHEET NUMBER:

C-1.2

REVISION:

0

1 EXISTING EQUIPMENT PLAN
SCALE: 1" = 6'-0" 3/4"=1'-0" (FULL SIZE)
3/8"=1'-0" (11x17)

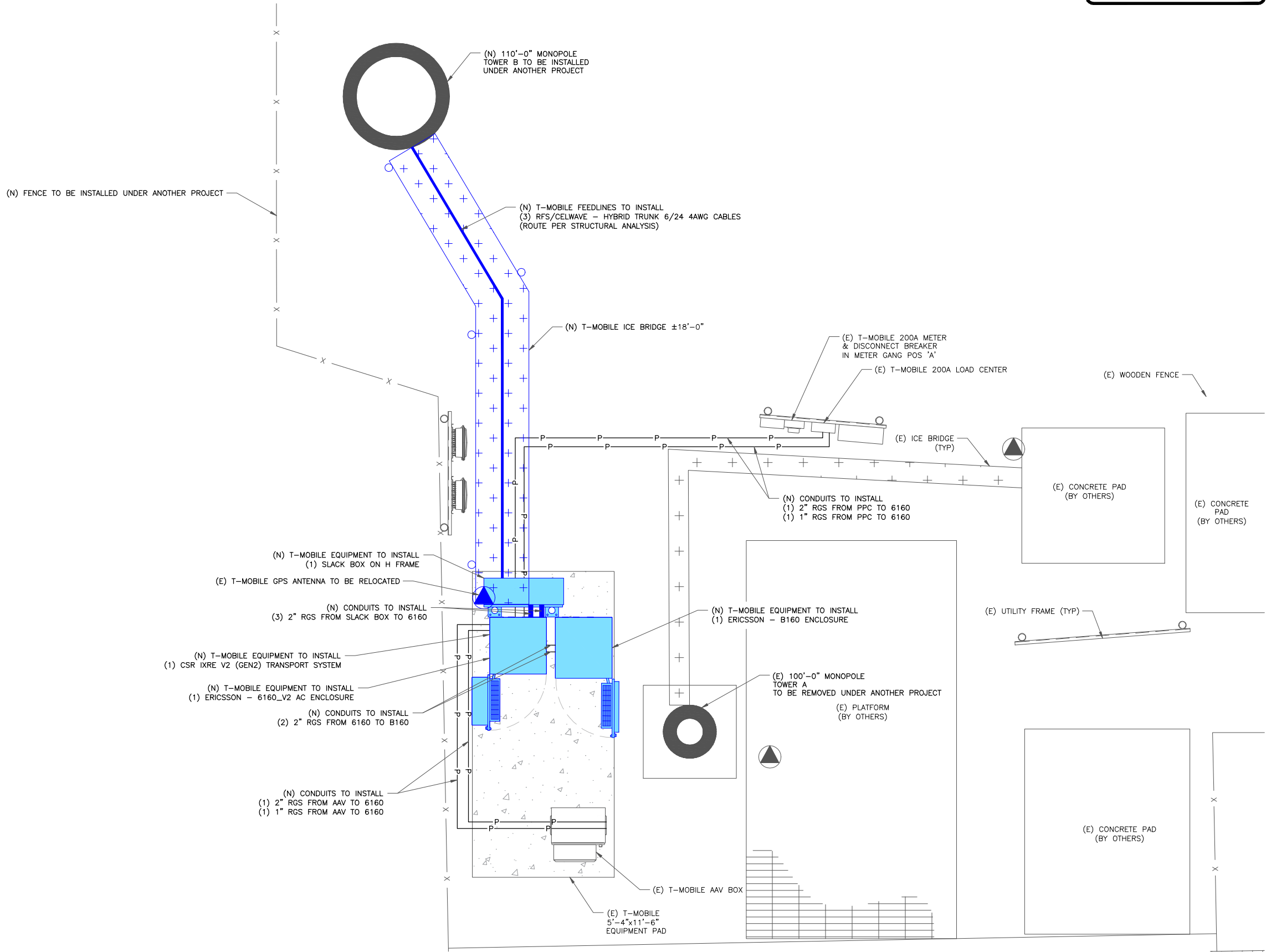


CONDUITS TO BE INSTALLED BETWEEN CABINETS:

- PPC TO 6160:
- (1) 2" RGS
(1) 1" RGS
- AAV TO 6160:
- (1) 2" RGS
(1) 1" RGS
- 6160 TO SLACK BOX:
- (3) 2" RGS
- 6160 TO B160:
- (2) 2" RGS

EQUIPMENT LEGEND:

- EXISTING
- TO BE RELOCATED/REMOVED
- NEW/RELOCATED



T Mobile

CROWN
CASTLE

POD
POWER OF DESIGN

11490 BLUEGRASS PKWY
LOUISVILLE, KY 40299

T-MOBILE SITE NUMBER:
CT11112H

BU #: 826927
CROWN CASTLE SITE NAME:
REDDING/RT7

845 ETHAN ALLEN HIGHWAY
RIDGEFIELD, CT 06877

EXISTING 110'-0"
MONOPOLE

ISSUED FOR:

| REV | DATE | DRWN | DESCRIPTION | DES./QA |
|-----|------------|------|--------------|---------|
| 0 | 06/30/2025 | EC | CONSTRUCTION | MEP |
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C-1.3

REVISION:

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1 FINAL EQUIPMENT PLAN

SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)



FAA APPROVED HEIGHT
NOT AVAILABLE

- TOP OF STRUCTURE WITH APPURTENANCE
ELEV. = 104'-0"
- TOP OF TOWER
ELEV. = 100'-0"
- T-MOBILE ANTENNA CENTERLINE
ELEV. = 95'-0"
- T-MOBILE ANTENNA CENTERLINE
ELEV. = 86'-0"

- (E) T-MOBILE EQUIPMENT TO REMOVE
- (6) RFS/CELWAVE - APXV18-206516S-C-A20 ANTENNAS
- (6) ERICSSON - KRY 112 71

EXISTING EQUIPMENT BY OTHERS
MCL = 77'-0"

EXISTING EQUIPMENT BY OTHERS
MCL = 67'-0"

- (E) T-MOBILE FEEDLINES TO REMOVE
(12) COAX CABLES
- (E) 100'-0" MONOPOLE
TOWER A
TO BE REMOVED UNDER
ANOTHER PROJECT

- BOTTOM OF TOWER
ELEV. = 0"

- TOP OF STRUCTURE W/ APPARATUS
ELEV. = 120'-0"

- TOP OF TOWER
ELEV. = 110'-0"

- T-MOBILE ANTENNA CENTERLINE
ELEV. = 94'-0"
- T-MOBILE MOUNT CENTERLINE
ELEV. = 94'-0"

- (N) T-MOBILE EQUIPMENT TO INSTALL
- (3) ERICSSON - 840590966 ANTENNAS
- (3) ERICSSON - AIR6419 B41 ANTENNAS
- (3) ERICSSON - 4480 B71/B85 RADIOS
- (3) ERICSSON - 4460 B25/B66 RADIOS

EXISTING EQUIPMENT BY OTHERS
MCL = 82'-0"

EXISTING EQUIPMENT BY OTHERS
MCL = 70'-0"

- (N) T-MOBILE FEEDLINES TO INSTALL
- (3) RFS/CELWAVE - HYBRID TRUNK 6/24 4AWG CABLES
(ROUTE PER STRUCTURAL ANALYSIS)

- (N) 110'-0" MONOPOLE
TOWER B TO BE INSTALLED
UNDER ANOTHER PROJECT

- BOTTOM OF TOWER
ELEV. = 0"

EQUIPMENT LEGEND:

- EXISTING
- TO BE RELOCATED/REMOVED
- NEW/RELOCATED

T Mobile

CROWN
CASTLE

POD
POWER OF DESIGN

11490 BLUEGRASS PKWY
LOUISVILLE, KY 40299

T-MOBILE SITE NUMBER:
CT11112H

BU #: 826927
CROWN CASTLE SITE NAME:
REDDING/RT7

845 ETHAN ALLEN HIGHWAY
RIDGEFIELD, CT 06877

EXISTING 110'-0"
MONOPOLE

ISSUED FOR:

| REV | DATE | DRWN | DESCRIPTION | DES./QA |
|-----|------------|------|--------------|---------|
| 0 | 06/30/2025 | EC | CONSTRUCTION | MEP |
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C-2

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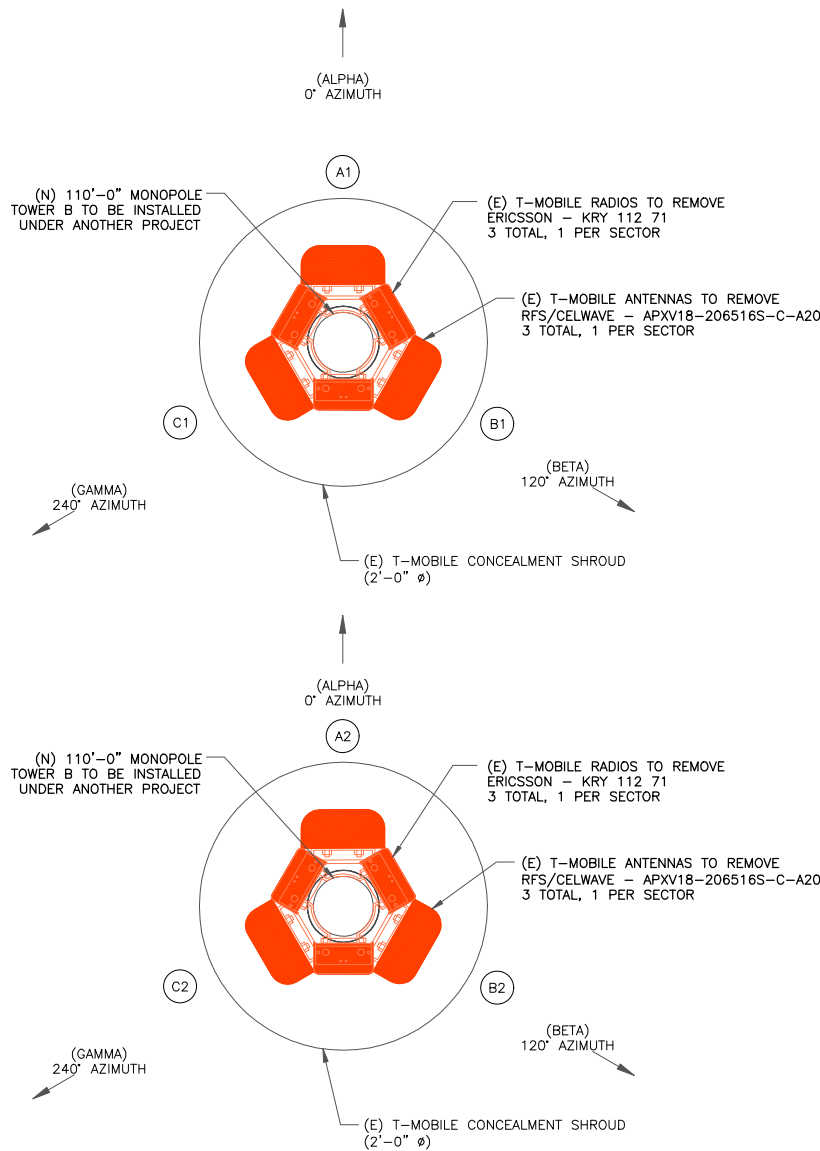
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1 EXISTING TOWER ELEVATION

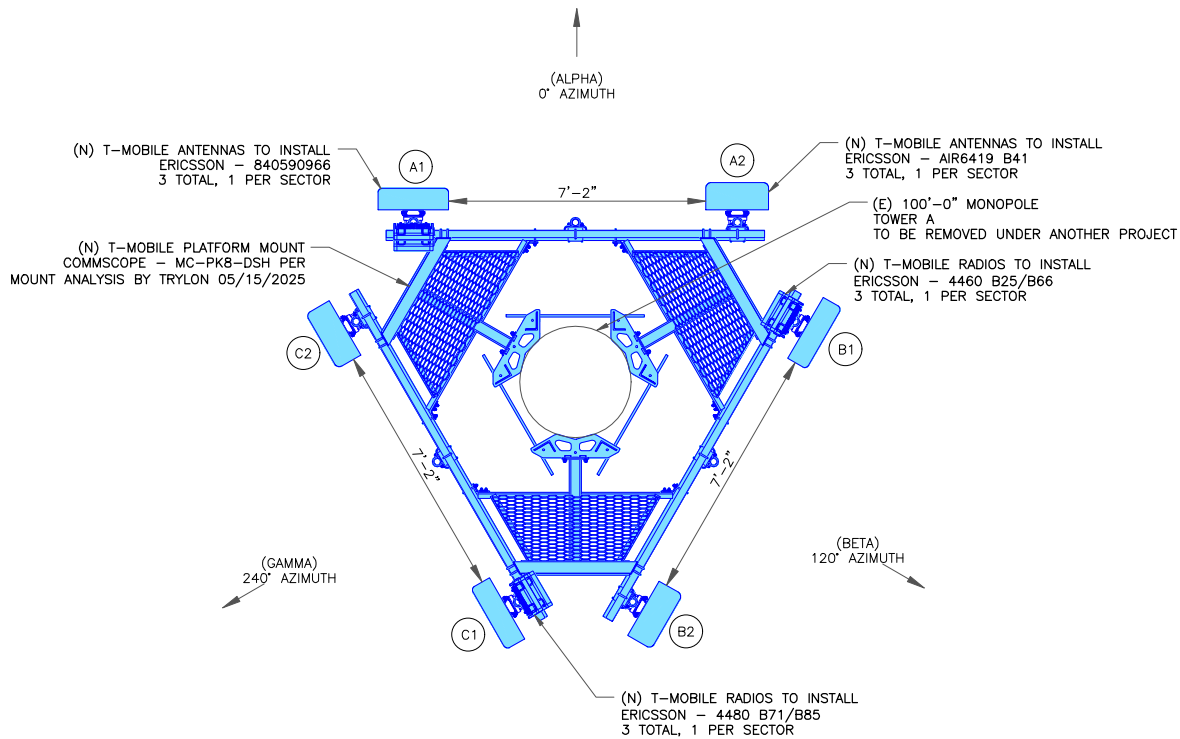
SCALE: 1/8"=1'-0" (FULL SIZE)
1/16"=1'-0" (11x17)

2 FINAL TOWER ELEVATION

SCALE: 1/8"=1'-0" (FULL SIZE)
1/16"=1'-0" (11x17)



1 EXISTING ANTENNA PLAN @ 95'-0" & 86'-0"
SCALE: 1-1/2"=1'-0" (FULL SIZE)
3/4"=1'-0" (11x17)



2 FINAL ANTENNA PLAN @ 94'-0"
SCALE: 3/8"=1'-0" (FULL SIZE)
3/16"=1'-0" (11x17)



EQUIPMENT LEGEND:

EXISTING

TO BE RELOCATED/REMOVED

NEW/RELOCATED

T Mobile

CROWN CASTLE

POD
POWER OF DESIGN

11490 BLUEGRASS PKWY
LOUISVILLE, KY 40299

T-MOBILE SITE NUMBER:
CT11112H

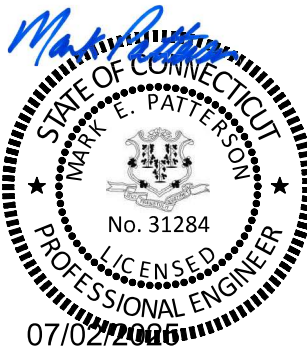
BU #: 826927
CROWN CASTLE SITE NAME:
REDDING/RT7

845 ETHAN ALLEN HIGHWAY
RIDGEFIELD, CT 06877

EXISTING 110'-0"
MONOPOLE

ISSUED FOR:

| REV | DATE | DRWN | DESCRIPTION | DES./QA |
|-----|------------|------|--------------|---------|
| 0 | 06/30/2025 | EC | CONSTRUCTION | MEP |
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SHEET NUMBER:

C-3

REVISION:

0



T-MOBILE SITE NUMBER:
CT11112H

BU #: **826927**
CROWN CASTLE SITE NAME:
REDDING/RT7

845 ETHAN ALLEN HIGHWAY
RIDGEFIELD, CT 06877

EXISTING 110'-0"
MONOPOLE

| ISSUED FOR: | | | | |
|-------------|------------|------|--------------|---------|
| REV | DATE | DRWN | DESCRIPTION | DES./QA |
| 0 | 06/30/2025 | EC | CONSTRUCTION | MEP |
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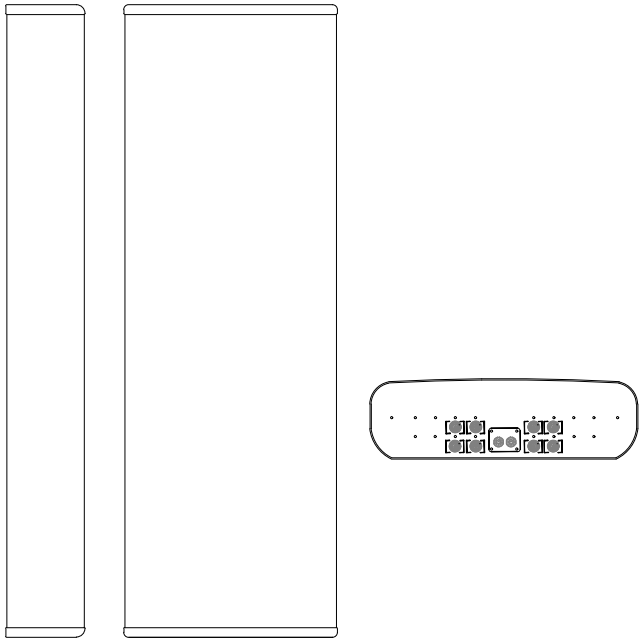
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| SHEET NUMBER: | REVISION: |
| C-4 | 0 |

FINAL EQUIPMENT SCHEDULE
(GC TO VERIFY WITH CURRENT RFDS)

| POSITION | ANTENNA | | | | RADIO | | | DIPLEXER | | | TMA | | SURGE PROTECTION | | CABLES | | | |
|----------|---------------------------------|----------------------------|---------|------------|-------|-----------------------------|----------|----------|--------|----------|------|--------|------------------|--------------|--------|-------------|--------|--------|
| | 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 | N600, L700, L1900, N1900, L2100 | (N) ERICSSON – 840590966 | 0° | 94’–0” | 1 | (N) ERICSSON – 4480 B71/B85 | TOWER | – | – | – | – | – | – | – | 1 | (N) HYBRID | 1–5/8” | 50M |
| | | | | | 1 | (N) ERICSSON – 4460 B25/B66 | TOWER | | | | | | | | | | | |
| A2 | N2500 | (N) ERICSSON – AIR6419 B41 | 0° | 94’–0” | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| B1 | N600, L700, L1900, N1900, L2100 | (N) ERICSSON – 840590966 | 120° | 94’–0” | 1 | (N) ERICSSON – 4480 B71/B85 | TOWER | – | – | – | – | – | – | – | 1 | (N) HYBRID | 1–5/8” | 50M |
| | | | | | 1 | (N) ERICSSON – 4460 B25/B66 | TOWER | | | | | | | | | | | |
| B2 | N2500 | (N) ERICSSON – AIR6419 B41 | 120° | 94’–0” | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| C1 | N600, L700, L1900, N1900, L2100 | (N) ERICSSON – 840590966 | 240° | 94’–0” | 1 | (N) ERICSSON – 4480 B71/B85 | TOWER | – | – | – | – | – | – | – | 1 | (N) HYBRID | 1–5/8” | 50M |
| | | | | | 1 | (N) ERICSSON – 4460 B25/B66 | TOWER | | | | | | | | | | | |
| C2 | N2500 | (N) ERICSSON – AIR6419 B41 | 240° | 94’–0” | – | – | – | – | – | – | – | – | – | – | – | – | – | – |

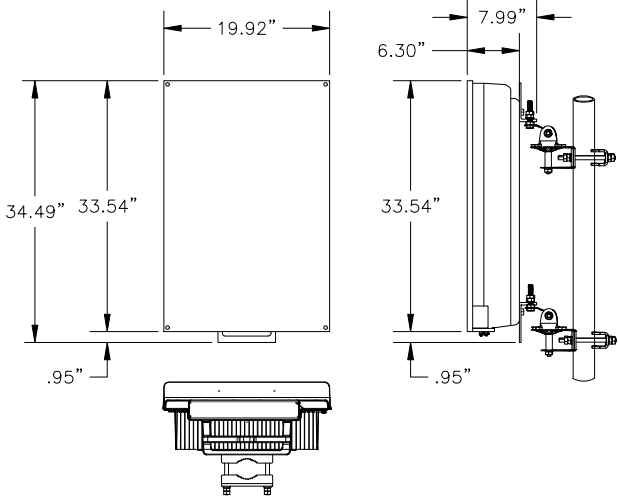
UNUSED FEEDLINES

| | | | |
|---|---|---|---|
| – | – | – | – |
| – | – | – | – |



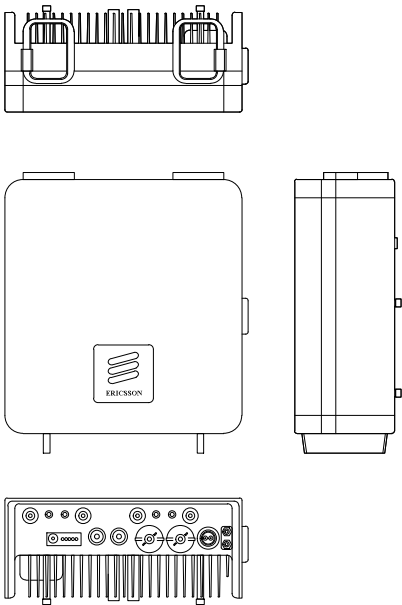
ERICSSON – 840590966
WEIGHT (WITHOUT MOUNTING HARDWARE): 135.8 LBS
SIZE (HxWxD): 95.9x23.5x7.1 IN.

1 ERICSSON – 840590966
SCALE: NOT TO SCALE



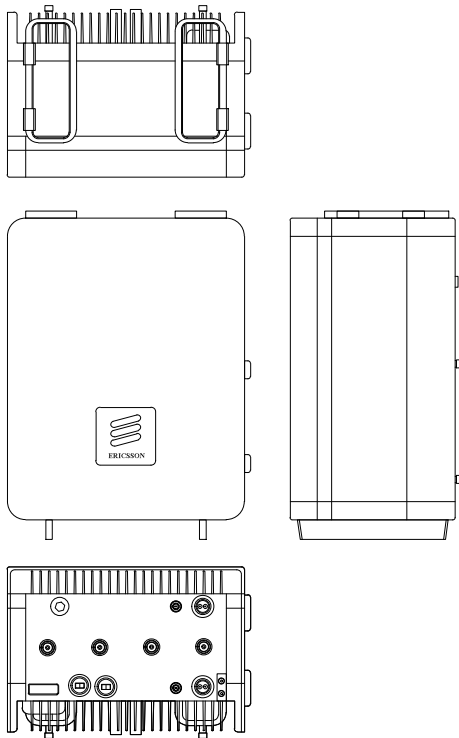
ERICSSON – AIR 6419 B41
WEIGHT (WITHOUT MOUNTING HARDWARE): 81.84 LBS
SIZE (HxWxD): 34.49x19.92x7.99 IN.

2 ERICSSON – AIR 6419 B41
SCALE: NOT TO SCALE



ERICSSON – 4480 B71/B85
WEIGHT: 92.6 LBS
SIZE (HxWxD): 21.8x15.7x7.5 IN.

3 ERICSSON – 4480 B71/B85
SCALE: NOT TO SCALE



ERICSSON – 4460 B25/B66
WEIGHT: 109 LBS
SIZE (HxWxD): 17.0x15.1x11.9 IN.

4 ERICSSON – 4460 B25/B66
SCALE: NOT TO SCALE

5 NOT USED
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE

T Mobile

CROWN CASTLE

POD
POWER OF DESIGN

11490 BLUEGRASS PKWY
LOUISVILLE, KY 40299

T-MOBILE SITE NUMBER:
CT11112H

BU #: 826927
CROWN CASTLE SITE NAME:
REDDING/RT7

845 ETHAN ALLEN HIGHWAY
RIDGEFIELD, CT 06877

EXISTING 110'-0"
MONOPOLE

ISSUED FOR:

| REV | DATE | DRWN | DESCRIPTION | DES./QA |
|-----|------------|------|--------------|---------|
| 0 | 06/30/2025 | EC | CONSTRUCTION | MEP |
| | | | | |
| | | | | |
| | | | | |



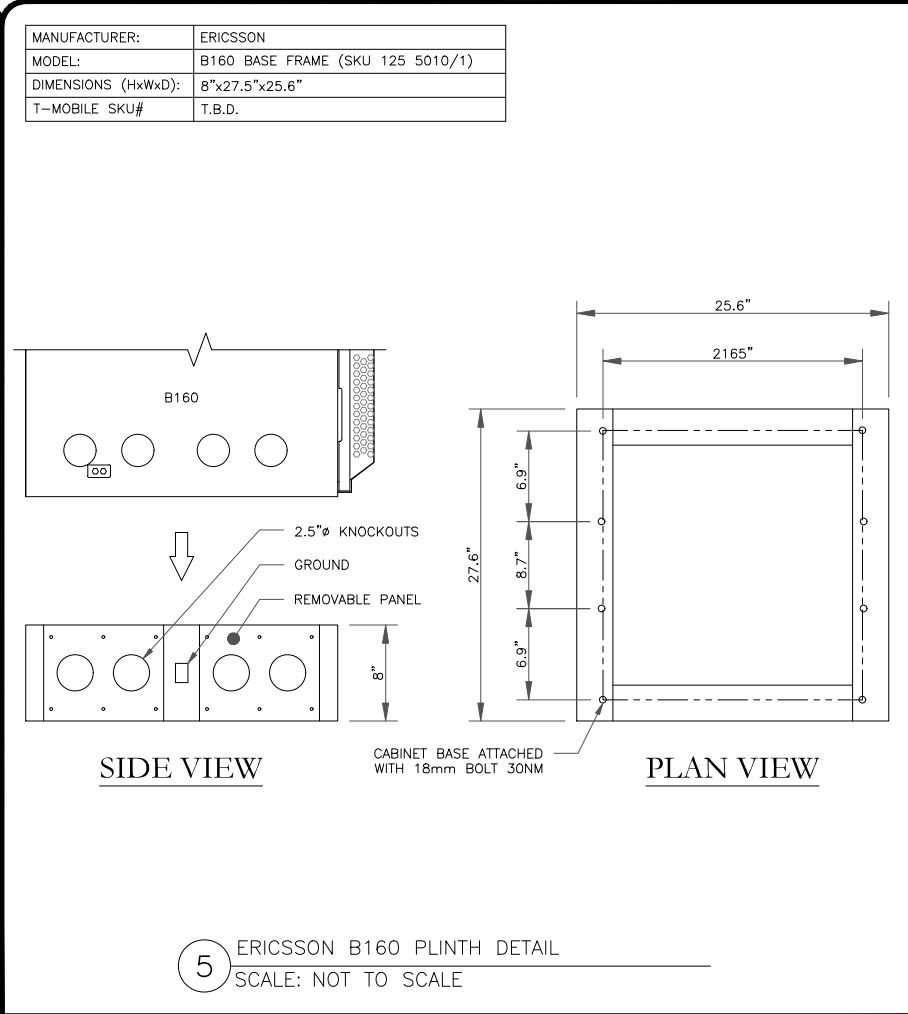
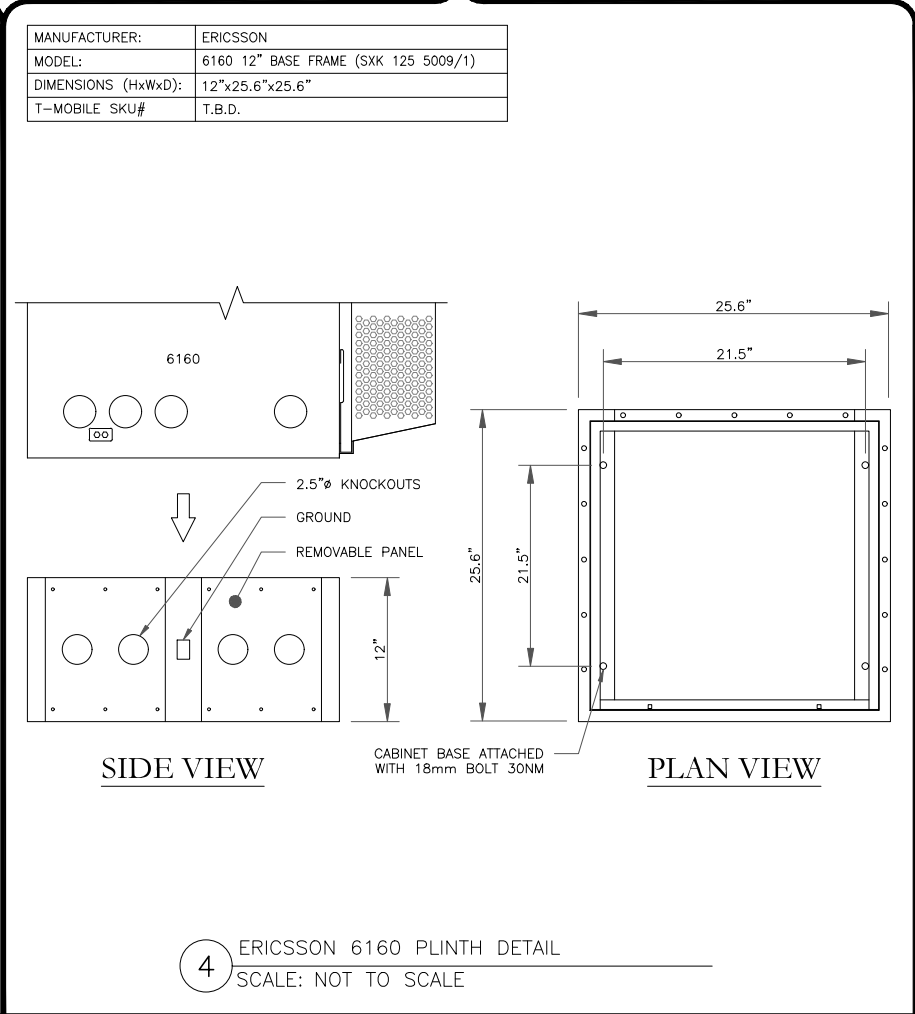
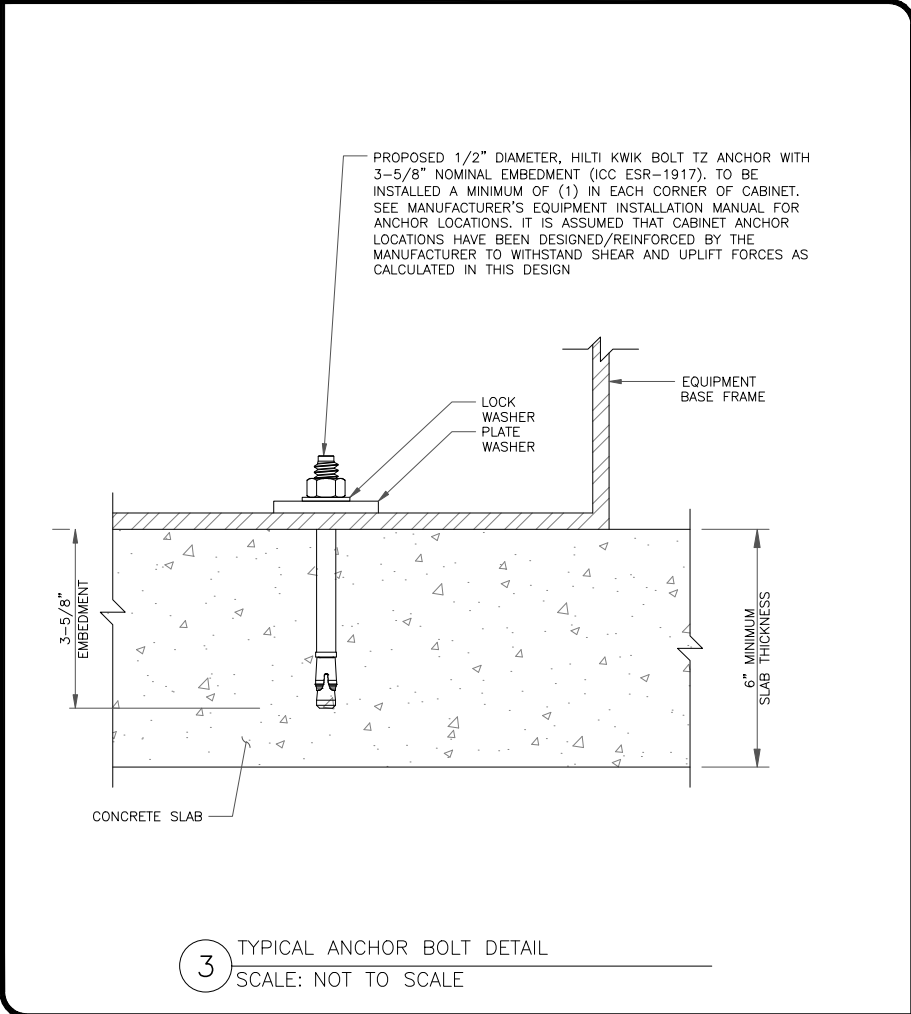
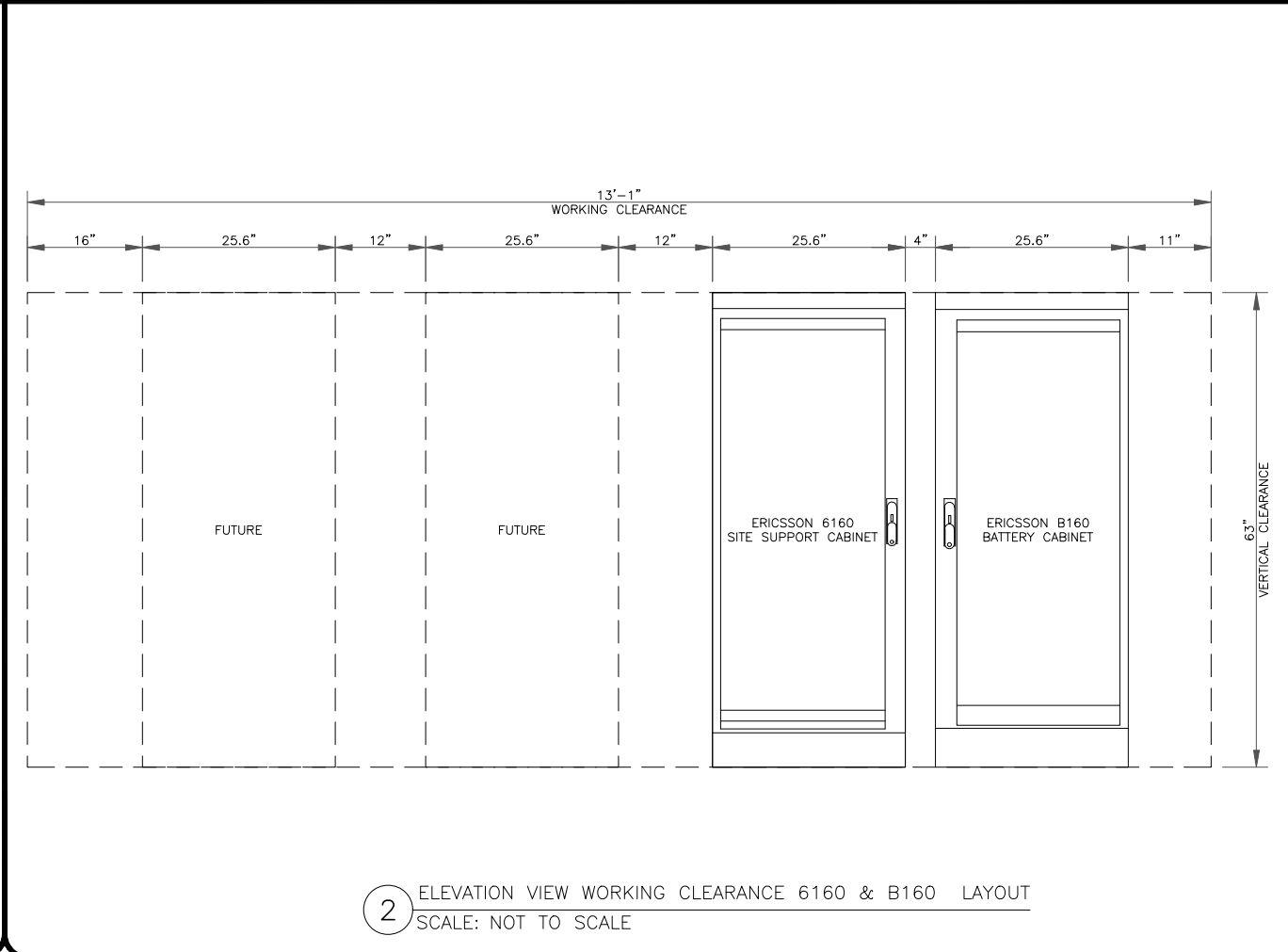
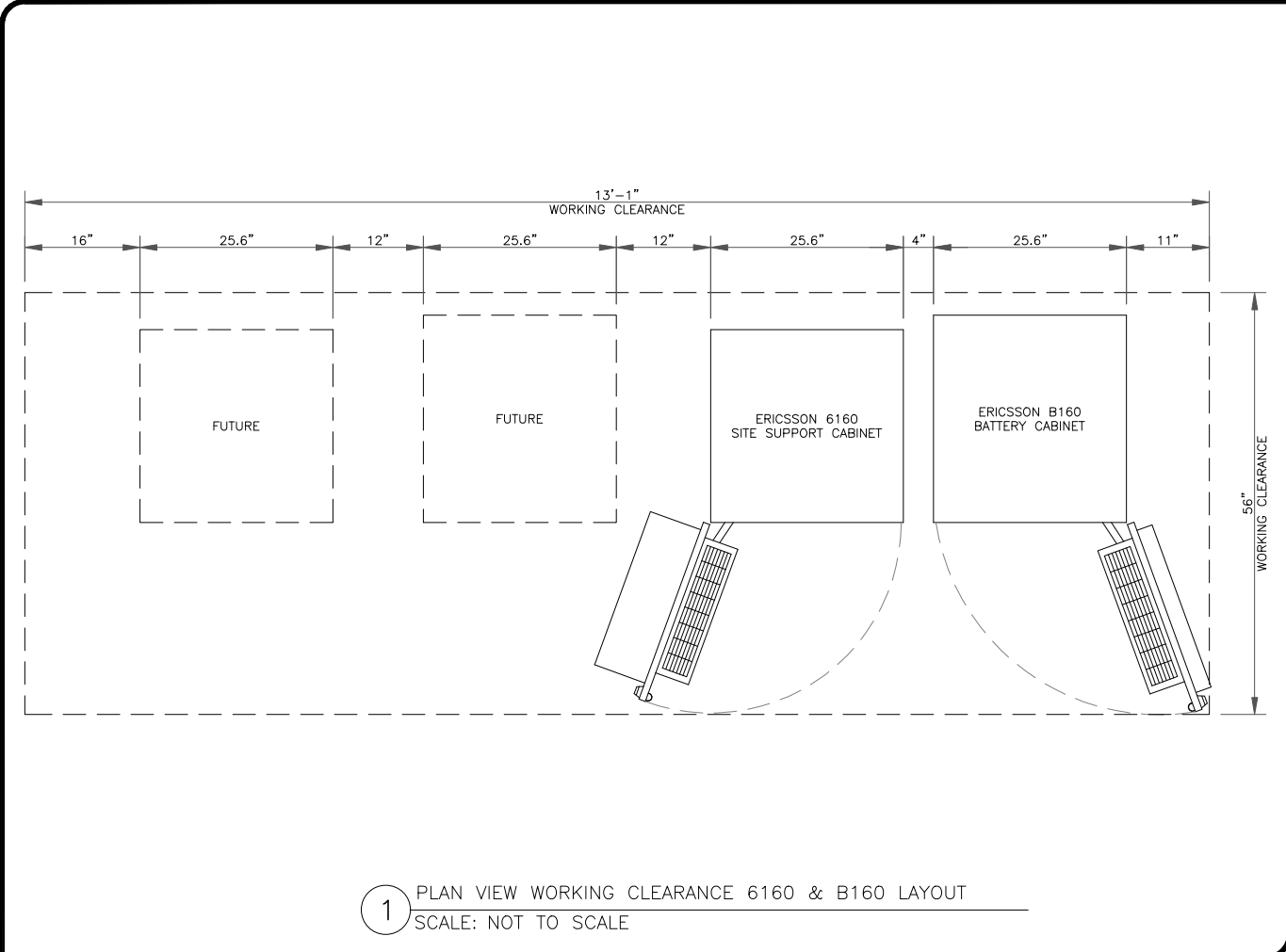
IT IS A VIOLATION OF LAW FOR ANY PERSON,
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OF A LICENSED PROFESSIONAL ENGINEER,
TO ALTER THIS DOCUMENT.

SHEET NUMBER:

C-5

REVISION:

0



11490 BLUEGRASS PKWY
LOUISVILLE, KY 40299

T-MOBILE SITE NUMBER:
CT11112H

BU #: **826927**

CROWN CASTLE SITE NAME:
REDDING/RT7

845 ETHAN ALLEN HIGHWAY
RIDGEFIELD, CT 06877

EXISTING 110'-0"
MONOPOLE

| REV | DATE | DRWN | DESCRIPTION | DES./QA |
|-----|------------|------|--------------|---------|
| 0 | 06/30/2025 | EC | CONSTRUCTION | MEP |
| | | | | |
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ISSUED FOR:

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: C-6.1 | REVISION: 0 |
|-------------------------------|-----------------------|

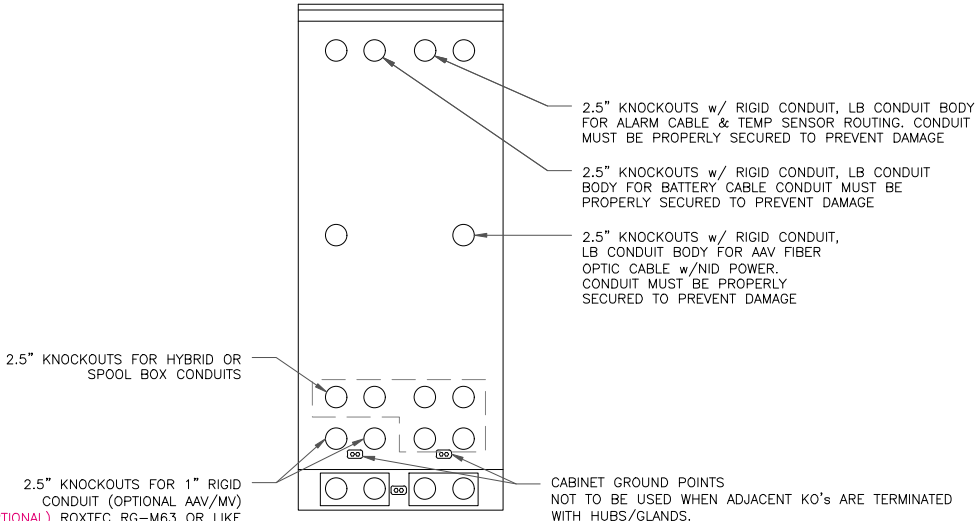
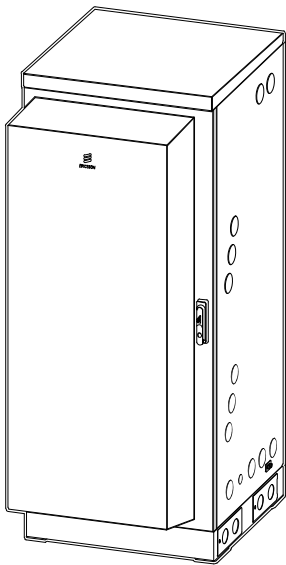
| | |
|---------------------|----------------------------|
| MANUFACTURER: | ERICSSON |
| MODEL: | (UTE6160_AC_V2) V2 CABINET |
| DIMENSIONS (HxWxD): | 63"x25.6"x25.6" |
| WEIGHT: | 433 LBS |
| SKU #: | T.B.D. |

NOTE:

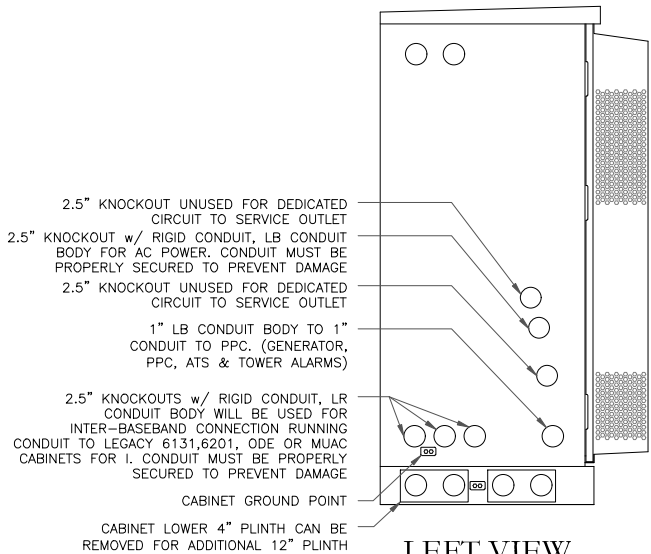
- CORRECT KNOCKOUT TOOL REQUIRED FOR PUNCHING KNOCKOUTS. DO NOT DRILL THROUGH KNOCKOUTS
- CONDUIT MUST BE PROPERLY SECURED TO PREVENT DAMAGE TO CABINETS AND OR CABLING

GROUNDING NOTE:

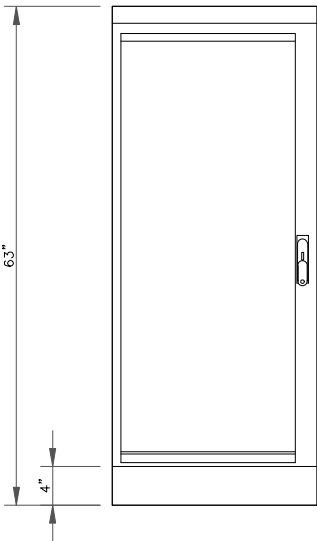
CABINET GROUNDING TO USE A SINGLE, #2 BTCW CONDUCTOR, W/ 2-HOLE, 1" C-C, LONG BARREL, WINDOW LUG, IN 3/4" LFNC TO GROUND RING. PLINTH GROUNDING IS NOT REQUIRED.



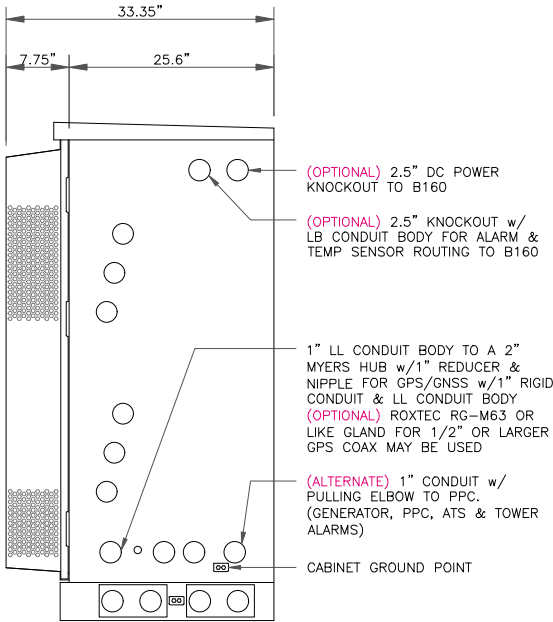
REAR VIEW



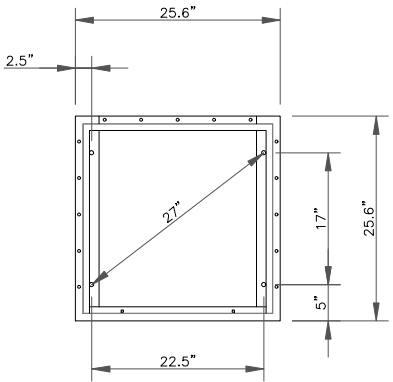
LEFT VIEW



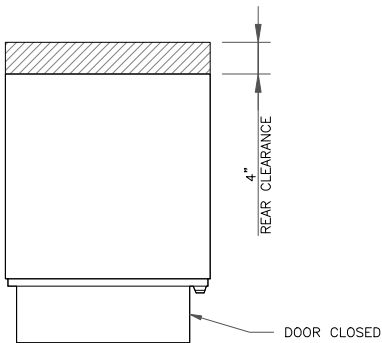
FRONT VIEW



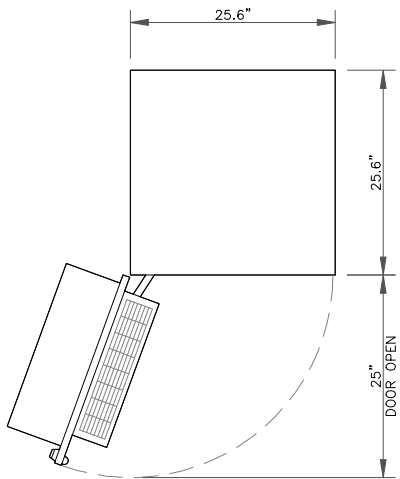
RIGHT VIEW



BOLT DOWN PATTERN



PLAN VIEW



DOOR SWING

T Mobile

CROWN CASTLE

POD
POWER OF DESIGN

11490 BLUEGRASS PKWY
LOUISVILLE, KY 40299

T-MOBILE SITE NUMBER:
CT11112H

BU #: 826927
CROWN CASTLE SITE NAME:
REDDING/RT7

845 ETHAN ALLEN HIGHWAY
RIDGEFIELD, CT 06877

EXISTING 110'-0"
MONOPOLE

ISSUED FOR:

| REV | DATE | DRWN | DESCRIPTION | DES./QA |
|-----|------------|------|--------------|---------|
| 0 | 06/30/2025 | EC | CONSTRUCTION | MEP |
| | | | | |
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| | | | | |



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SHEET NUMBER:

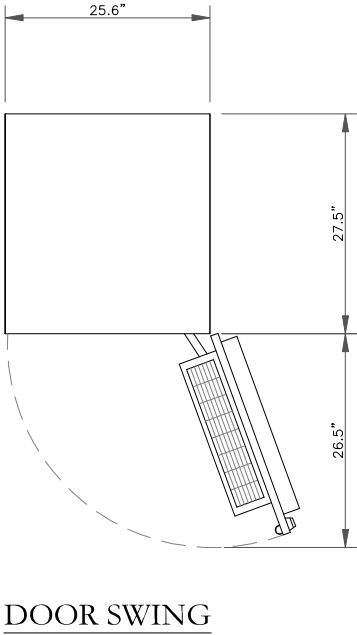
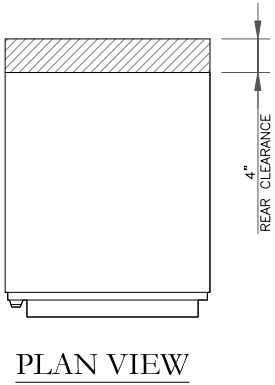
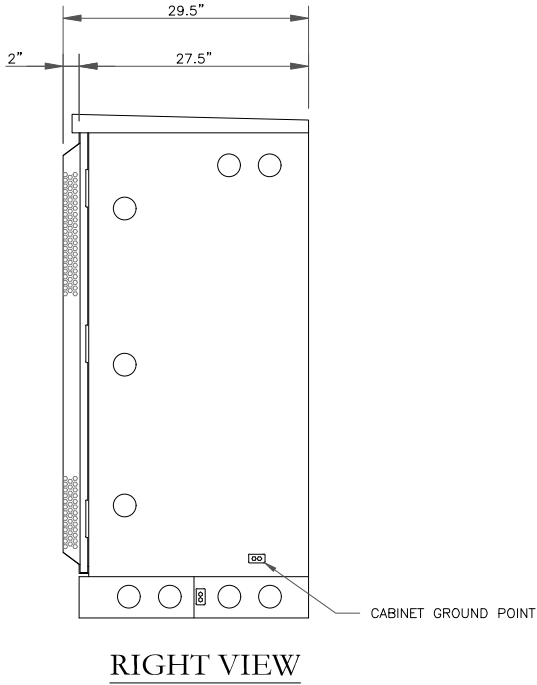
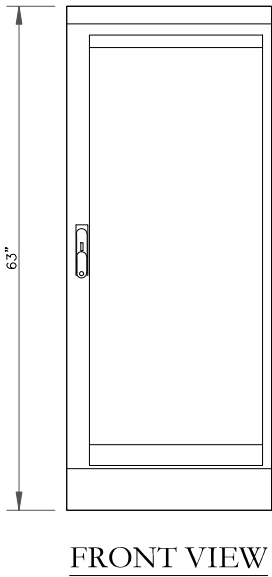
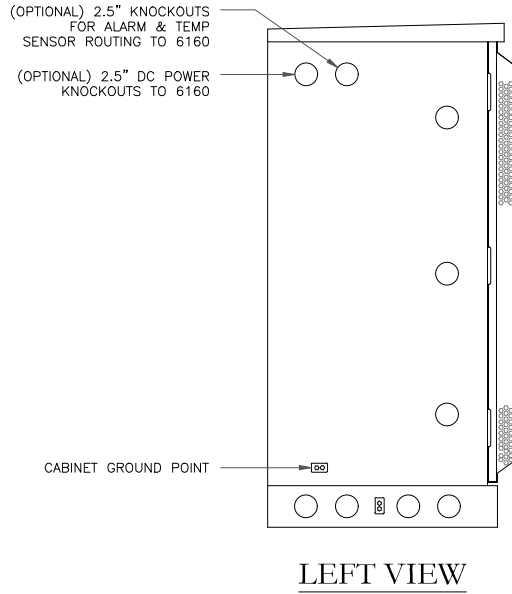
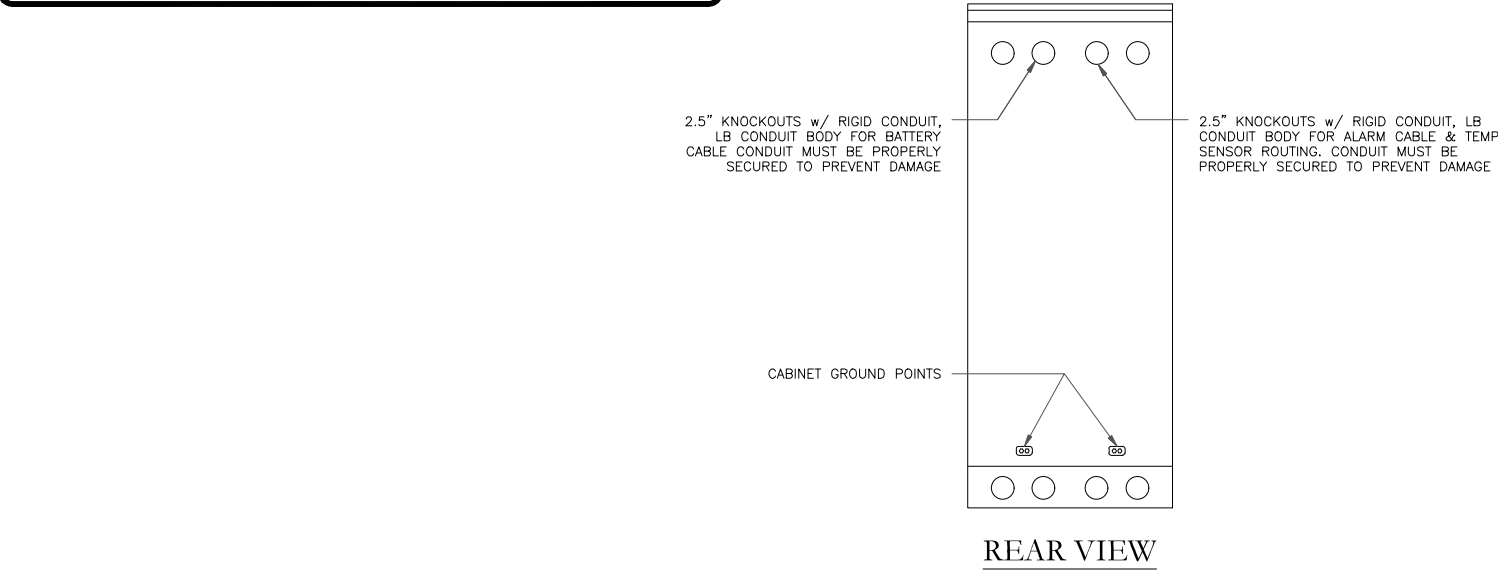
C-6.2

REVISION:

0

| | |
|---------------------|-----------------------------|
| MANUFACTURER: | ERICSSON |
| MODEL: | B160 BATTERY CABINET |
| DIMENSIONS (HxWxD): | 63"x25.6"x29.5" |
| WEIGHT: | 295 LBS (WITHOUT BATTERIES) |
| SKU #: | 33954 |

- NOTE:
- CORRECT KNOCKOUT TOOL REQUIRED FOR PUNCHING KNOCKOUTS. DO NOT DRILL THROUGH KNOCKOUTS
 - CONDUIT MUST BE PROPERLY SECURED TO PREVENT DAMAGE TO CABINETS AND OR CABLING



GROUNDING NOTE:

CABINET GROUNDING TO USE A SINGLE, #2 BTCW CONDUCTOR, W/ 2-HOLE, 1" C-C, LONG BARREL, WINDOW LUG, IN 3/4" LFNC TO GROUND RING. PLINTH GROUNDING IS NOT REQUIRED.



T-MOBILE SITE NUMBER:
CT11112H

BU #: **826927**

CROWN CASTLE SITE NAME:
REDDING/RT7

845 ETHAN ALLEN HIGHWAY
RIDGEFIELD, CT 06877

EXISTING 110'-0"
MONOPOLE

| ISSUED FOR: | | | | |
|-------------|------------|------|--------------|---------|
| REV | DATE | DRWN | DESCRIPTION | DES./QA |
| 0 | 06/30/2025 | EC | CONSTRUCTION | MEP |
| | | | | |
| | | | | |
| | | | | |



| T-MOBILE PANEL SCHDULE (EXISTING) | | | | | | | | | | | |
|---|-----------|---------|--|---------|-----------|---------|--|---|---------|-----------|---------------|
| MAIN: 200 AMP MAIN BREAKER | | | VOLTAGE/PHASE: 120/240V, 1-PHASE, 3-WIRE | | | | | SHORT CIRCUIT CURRENT RATING: 22,000 AMPS | | | |
| MOUNTING: SURFACE | | | NEMA RATING: 3R | | | | | SURGE PROTECTION DEVICE: YES | | | |
| MANUFACTURER: SCHNEIDER ELECTRIC (SQUARE D) | | | ENCLOSURE: QO130M200RB | | | | | MAIN BREAKER: QOM2200VH | | | |
| DESCRIPTION | LOAD (VA) | C or NC | C/B | CIR No. | LOAD (VA) | | CIR No. | C/B | C or NC | LOAD (VA) | DESCRIPTION |
| | | | | | A-PHASE | B-PHASE | | | | | |
| BTS - BREAKER OFF | 0 | NC | 40 | 1 | 180 | | 2 | 20 | NC | 180 | GFCI |
| | 0 | NC | | 3 | | 7200 | 4 | | C | 7200 | EXISTING 6102 |
| LED LIGHT | 200 | NC | 15 | 5 | 7400 | | 6 | | C | 7200 | |
| | | | | 7 | | 0 | 8 | | | | |
| | | | | 9 | 0 | | 10 | | | | |
| | | | | 11 | | 0 | 12 | | | | |
| | | | | 13 | 0 | | 14 | | | | |
| | | | | 15 | | 0 | 16 | | | | |
| | | | | 17 | 0 | | 18 | | | | |
| | | | | 19 | | 0 | 20 | | | | |
| | | | | 21 | 0 | | 22 | | | | |
| | | | | 23 | | 0 | 24 | | | | |
| | | | | 25 | 0 | | 26 | | | | |
| | | | | 27 | | 0 | 28 | | | | |
| | | | | 29 | 0 | | 30 | | | | |
| BASE LOAD (VA) = | | | | | 7580 | 7200 | C = CONTINUOUS LOAD; NC = NON-CONTINUOUS LOAD | | | | |
| 25% OF CONTINUOUS LOAD (VA) = | | | | | 1800 | 1800 | ** INDICATES NEW LOAD. ALL OTHER LOADS ARE EXISTING. REPLACE OR INSTALL NEW BREAKER AS NECESSARY. NEW BREAKERS TO BE SAME TYPE AND AIC RATING AS EXISTING. | | | | |
| TOTAL LOAD (VA) = | | | | | 9380 | 9000 | | | | | |
| TOTAL LOAD (A) = | | | | | 79 | 75 | | | | | |

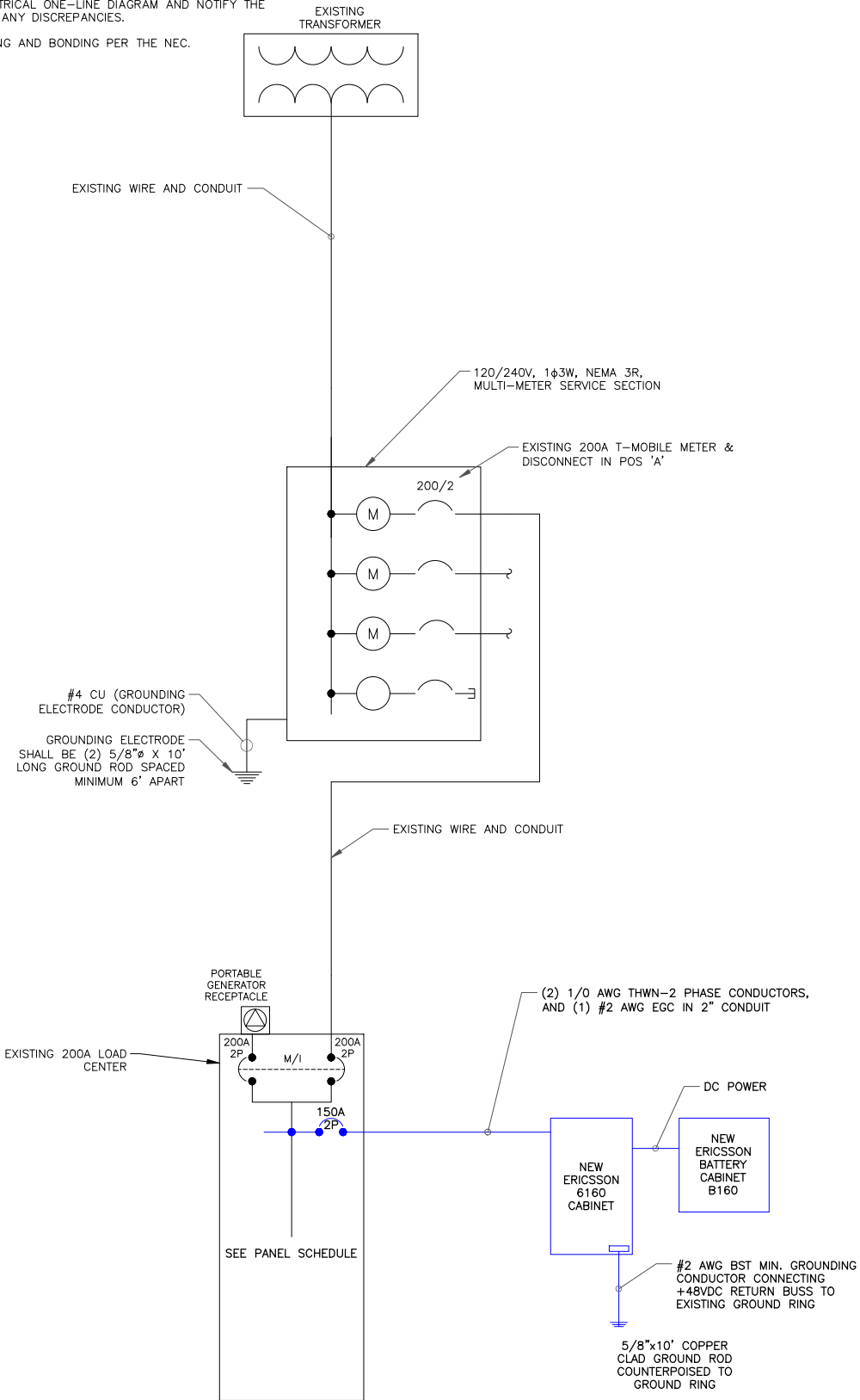
1 EXISTING AC PANEL SCHEDULE
SCALE: NOT TO SCALE

| T-MOBILE PANEL SCHDULE (EXISTING) | | | | | | | | | | | |
|---|-----------|---------|--|---------|-----------|---------|--|---|---------|-----------|--------------------|
| MAIN: 200 AMP MAIN BREAKER | | | VOLTAGE/PHASE: 120/240V, 1-PHASE, 3-WIRE | | | | | SHORT CIRCUIT CURRENT RATING: 22,000 AMPS | | | |
| MOUNTING: SURFACE | | | NEMA RATING: 3R | | | | | SURGE PROTECTION DEVICE: YES | | | |
| MANUFACTURER: SCHNEIDER ELECTRIC (SQUARE D) | | | ENCLOSURE: QO130M200RB | | | | | MAIN BREAKER: QOM2200VH | | | |
| DESCRIPTION | LOAD (VA) | C or NC | C/B | CIR No. | LOAD (VA) | | CIR No. | C/B | C or NC | LOAD (VA) | DESCRIPTION |
| | | | | | A-PHASE | B-PHASE | | | | | |
| BTS - BREAKER OFF | 0 | NC | 40 | 1 | 180 | | 2 | 20 | NC | 180 | GFCI |
| | 0 | NC | | 3 | | 8500 | 4 | | C | 8500 | NEW 6160 CABINET** |
| LED LIGHT | 200 | NC | 15 | 5 | 8700 | | 6 | | C | 0500 | |
| | | | | 7 | | 0 | 8 | | C | | |
| | | | | 9 | 0 | | 10 | | | | |
| | | | | 11 | | 0 | 12 | | | | |
| | | | | 13 | 0 | | 14 | | | | |
| | | | | 15 | | 0 | 16 | | | | |
| | | | | 17 | 0 | | 18 | | | | |
| | | | | 19 | | 0 | 20 | | | | |
| | | | | 21 | 0 | | 22 | | | | |
| | | | | 23 | | 0 | 24 | | | | |
| | | | | 25 | 0 | | 26 | | | | |
| | | | | 27 | | 0 | 28 | | | | |
| | | | | 29 | 0 | | 30 | | | | |
| BASE LOAD (VA) = | | | | | 8880 | 8500 | C = CONTINUOUS LOAD; NC = NON-CONTINUOUS LOAD | | | | |
| 25% OF CONTINUOUS LOAD (VA) = | | | | | 2125 | 2125 | ** INDICATES NEW LOAD. ALL OTHER LOADS ARE EXISTING. REPLACE OR INSTALL NEW BREAKER AS NECESSARY. NEW BREAKERS TO BE SAME TYPE AND AIC RATING AS EXISTING. | | | | |
| TOTAL LOAD (VA) = | | | | | 11005 | 10625 | | | | | |
| TOTAL LOAD (A) = | | | | | 92 | 89 | | | | | |

2 FINAL AC PANEL SCHEDULE
SCALE: NOT TO SCALE

NOTES:

- ALL NEW CONDUCTORS TO BE INSTALLED SHALL BE COPPER.
ALL CONDUCTORS SHALL BE THHW, THWN-2, XHHW, OR XHHW-2 UNLESS NOTED OTHERWISE.
- CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL GROUNDING AND BONDING PER THE NEC.



2 ONE LINE DIAGRAM
SCALE: NOT TO SCALE

T Mobile

CROWN CASTLE

POD
POWER OF DESIGN
11490 BLUEGRASS PKWY
LOUISVILLE, KY 40299

T-MOBILE SITE NUMBER:
CT11112H

BU #: 826927
CROWN CASTLE SITE NAME:
REDDING/RT7

845 ETHAN ALLEN HIGHWAY
RIDGEFIELD, CT 06877

EXISTING 110'-0"
MONOPOLE

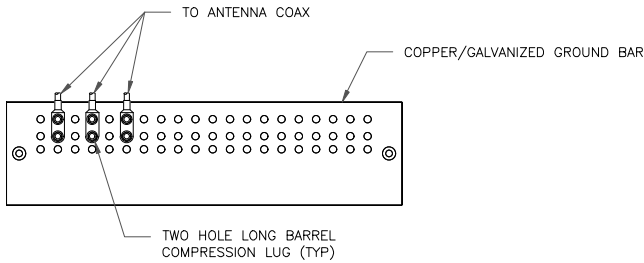
ISSUED FOR:

| REV | DATE | DRWN | DESCRIPTION | DES./QA |
|-----|------------|------|--------------|---------|
| 0 | 06/30/2025 | EC | CONSTRUCTION | MEP |
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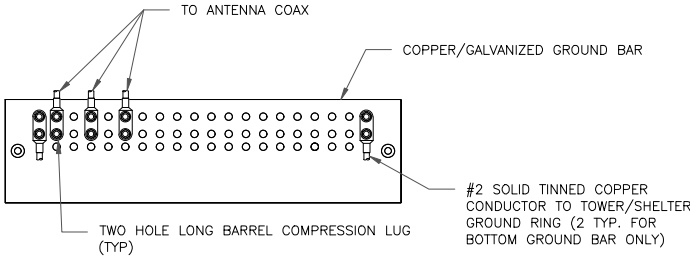
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SHEET NUMBER:
E-1

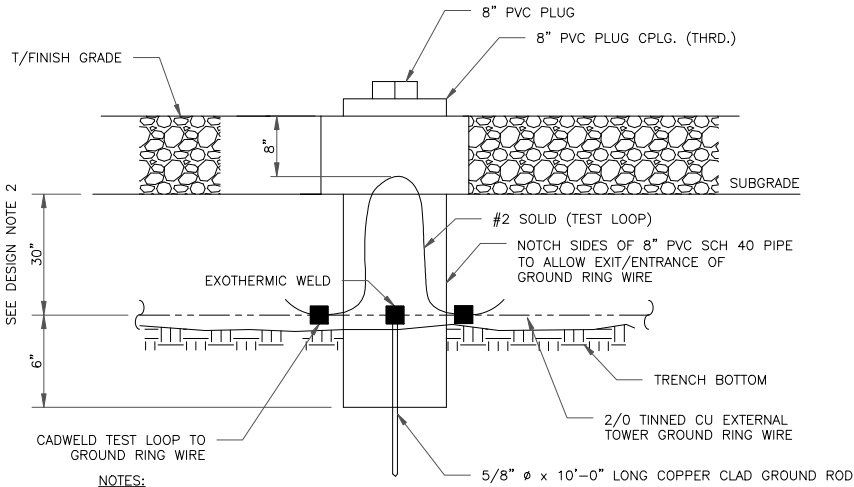
REVISION:
0



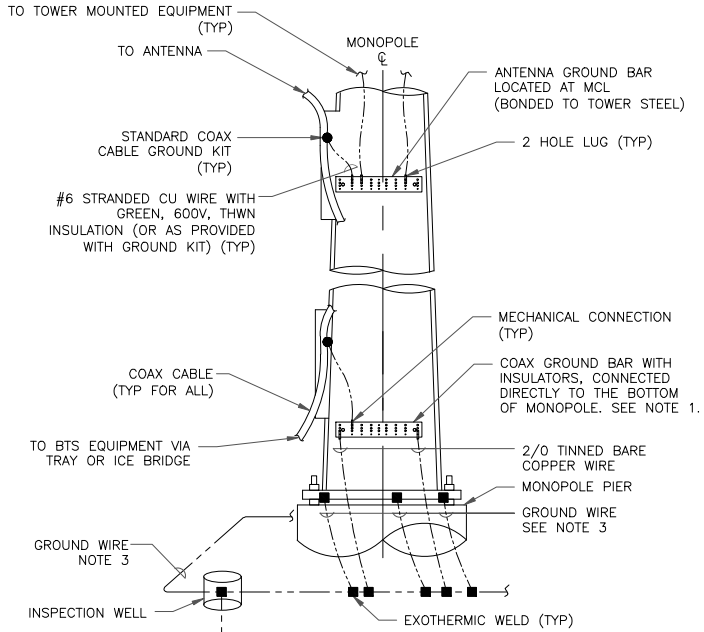
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



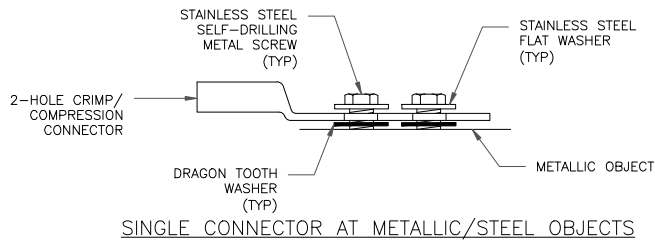
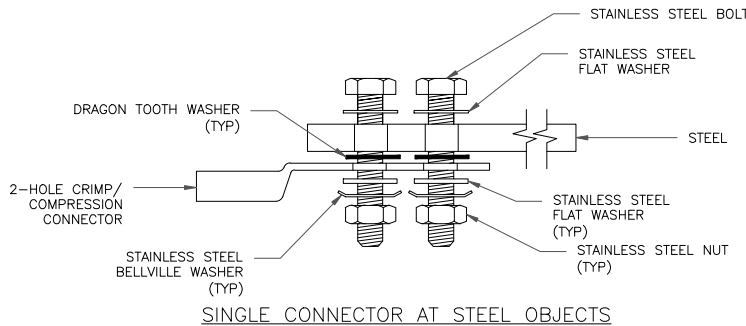
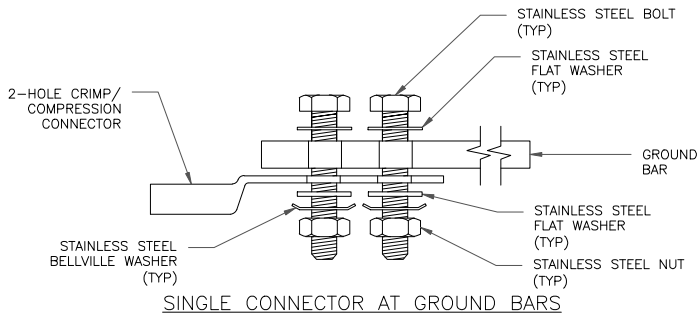
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



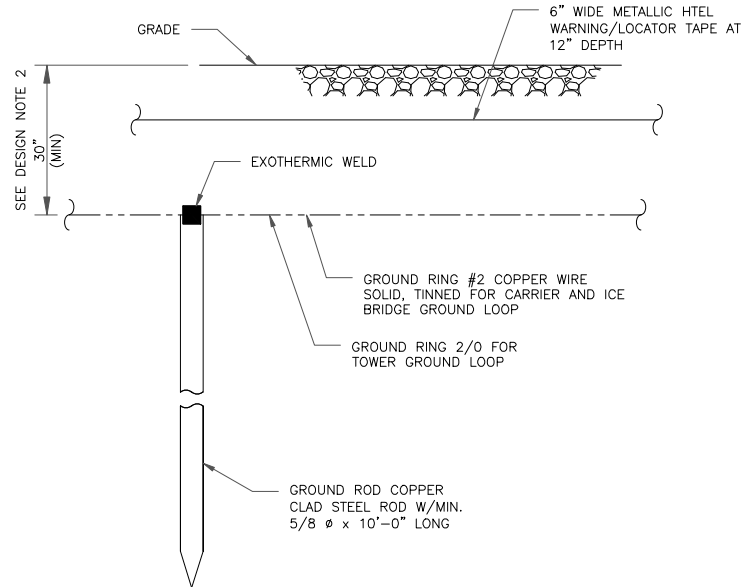
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



6 GROUND ROD DETAIL
SCALE: NOT TO SCALE

T Mobile

CROWN CASTLE

POD
POWER OF DESIGN

11490 BLUEGRASS PKWY
LOUISVILLE, KY 40299

T-MOBILE SITE NUMBER:
CT1112H

BU #: 826927
CROWN CASTLE SITE NAME:
REDDING/RT7

845 ETHAN ALLEN HIGHWAY
RIDGEFIELD, CT 06877

EXISTING 110'-0"
MONOPOLE

ISSUED FOR:

| REV | DATE | DRWN | DESCRIPTION | DES./QA |
|-----|------------|------|--------------|---------|
| 0 | 06/30/2025 | EC | CONSTRUCTION | MEP |
| | | | | |
| | | | | |
| | | | | |



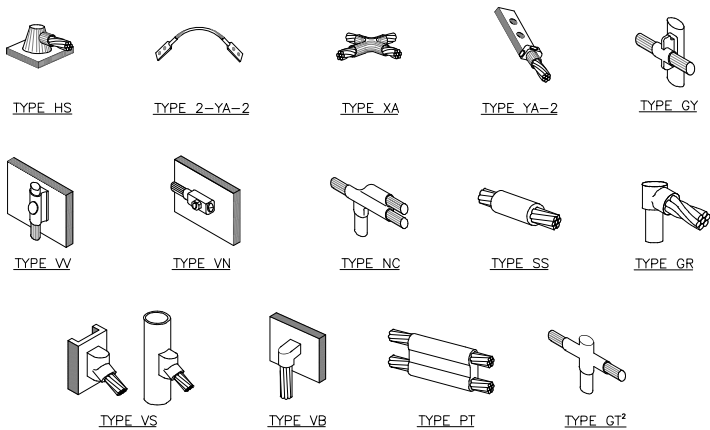
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SHEET NUMBER:

G-1

REVISION:

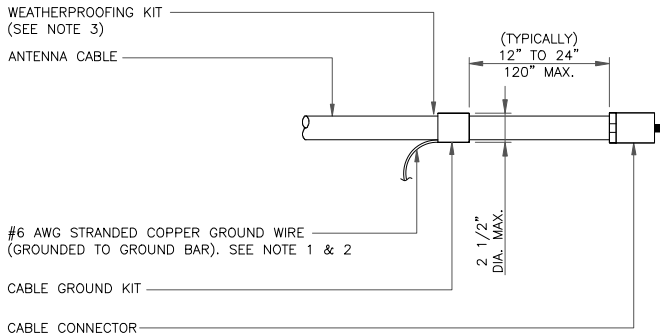
0



NOTE:

1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

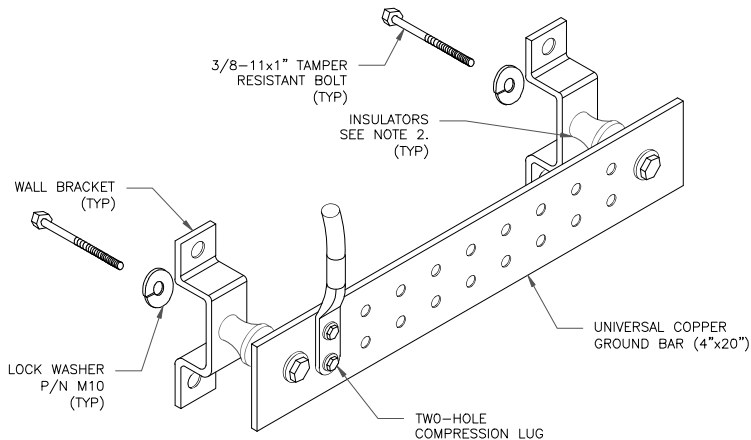
1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

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

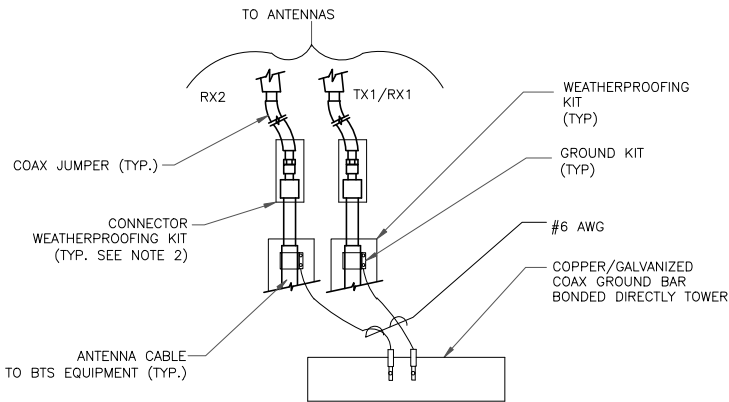
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



NOTES:

1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT 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.

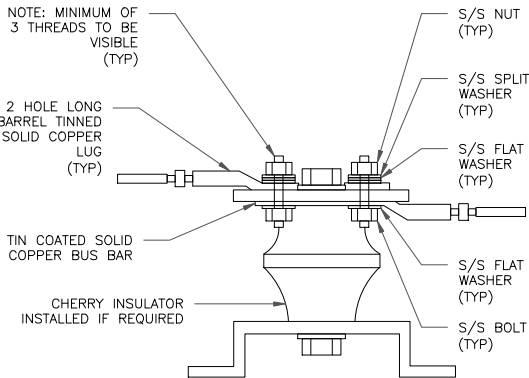
6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

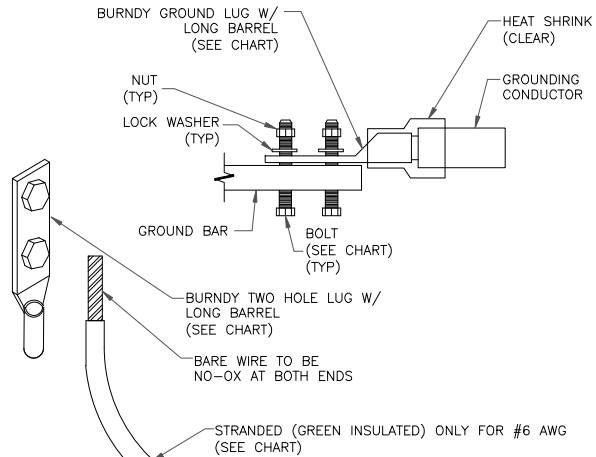
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

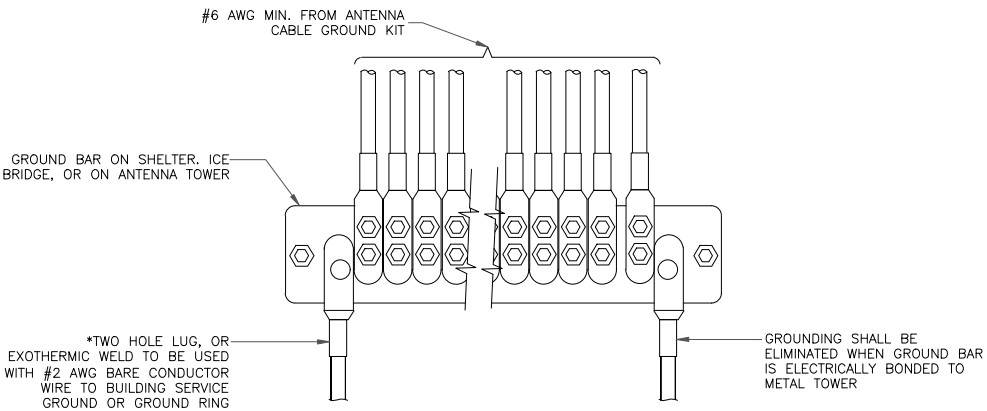
| WIRE SIZE | BURNDY LUG | BOLT SIZE |
|------------------------|------------|-----------------------|
| #6 AWG GREEN INSULATED | YA6C-2TC38 | 3/8" - 16 NC S 2 BOLT |
| #2 AWG SOLID TINNED | YA3C-2TC38 | 3/8" - 16 NC S 2 BOLT |
| #2 AWG STRANDED | YA2C-2TC38 | 3/8" - 16 NC S 2 BOLT |
| #2/0 AWG STRANDED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



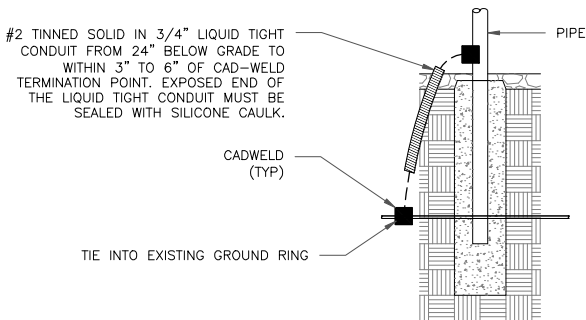
NOTES:

1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE

T Mobile

CROWN CASTLE

POD
POWER OF DESIGN

11490 BLUEGRASS PKWY
LOUISVILLE, KY 40299

T-MOBILE SITE NUMBER:
CT11112H

BU #: 826927
CROWN CASTLE SITE NAME:
REDDING/RT7

845 ETHAN ALLEN HIGHWAY
RIDGEFIELD, CT 06877

EXISTING 110'-0"
MONOPOLE

ISSUED FOR:

| REV | DATE | DRWN | DESCRIPTION | DES./QA |
|-----|------------|------|--------------|---------|
| 0 | 06/30/2025 | EC | CONSTRUCTION | MEP |
| | | | | |
| | | | | |
| | | | | |



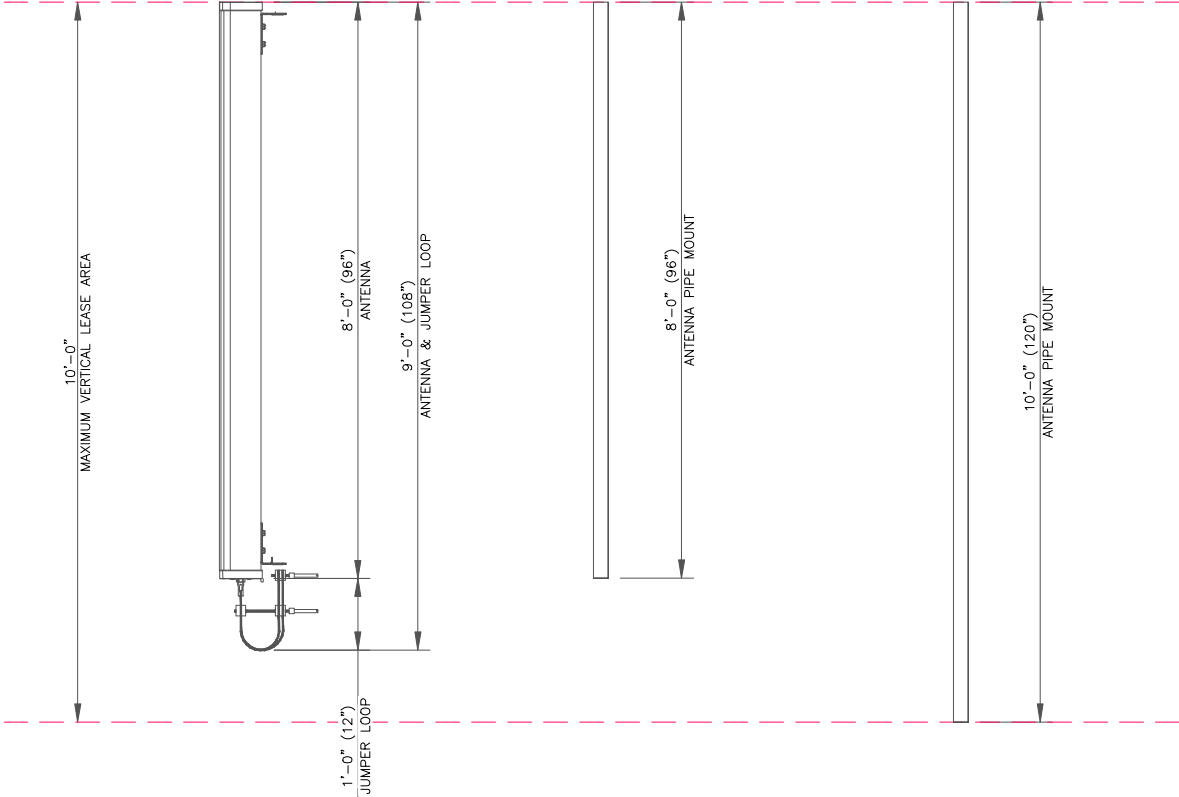
IT IS A VIOLATION OF LAW FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL ENGINEER,
TO ALTER THIS DOCUMENT.

SHEET NUMBER:

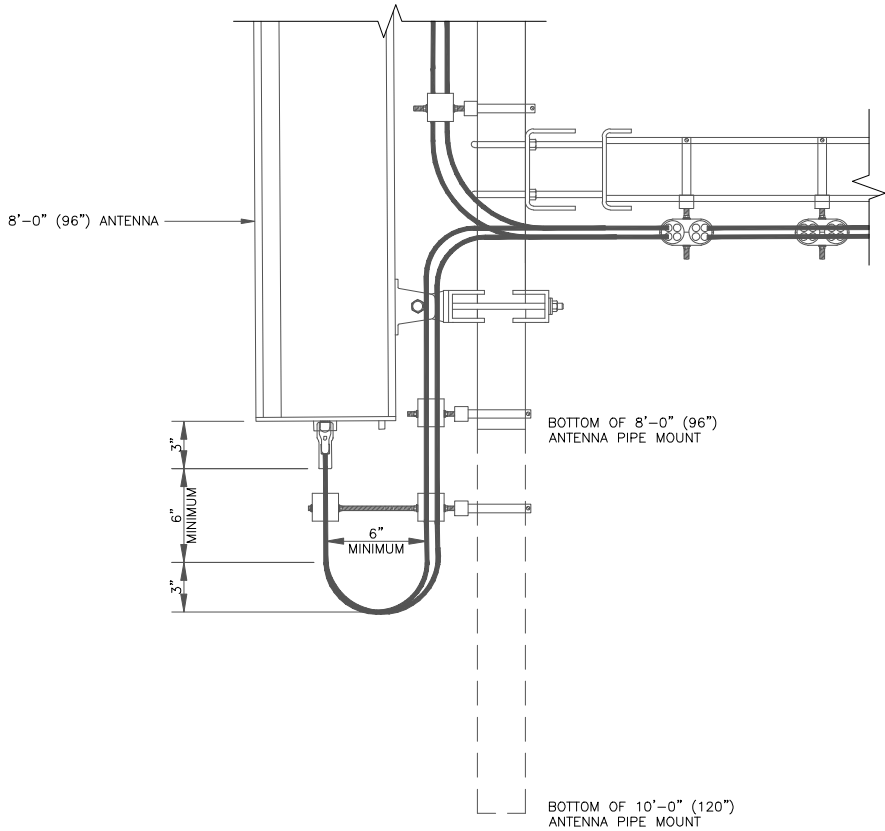
G-2

REVISION:

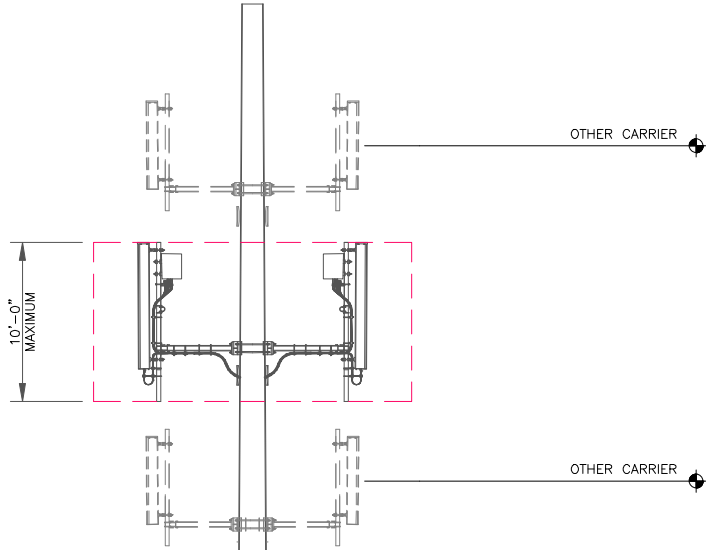
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1 MAXIMUM VERTICAL LEASE AREA
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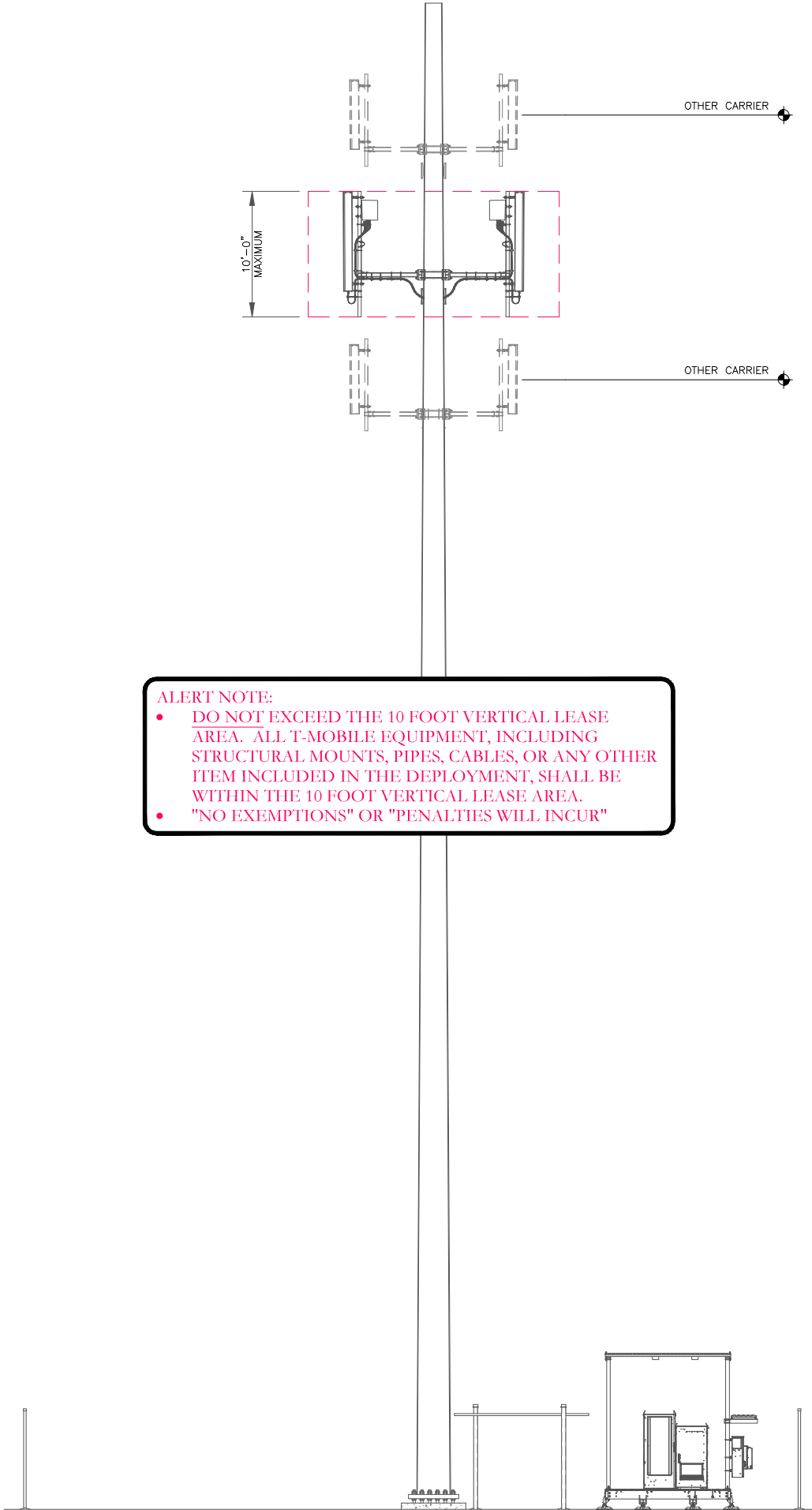


2 JUMPER LOOP
SCALE: NOT TO SCALE



ALERT NOTE:

- DO NOT EXCEED THE 10 FOOT VERTICAL LEASE AREA. ALL T-MOBILE EQUIPMENT, INCLUDING STRUCTURAL MOUNTS, PIPES, CABLES, OR ANY OTHER ITEM INCLUDED IN THE DEPLOYMENT, SHALL BE WITHIN THE 10 FOOT VERTICAL LEASE AREA.
- "NO EXEMPTIONS" OR "PENALTIES WILL INCUR"



3 10 FOOT VERTICAL TOWER LEASE AREA
SCALE: NOT TO SCALE

T Mobile

CROWN CASTLE

10 FOOT VERTICAL
TOWER LEASE AREA

ISSUED FOR:

| REV | DATE | DRWN | DESCRIPTION | DES./QA |
|-----|------------|------|--------------|---------|
| 0 | 10/11/2024 | SMM | CONSTRUCTION | CWB |
| | | | | |
| | | | | |
| | | | | |

APPENDED
DOCUMENT

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:

REF

REVISION:

0

4

3

2

1

NOTES:

1.0 GENERAL

1.1 ALL METRIC DIMENSIONS ARE IN BRACKETS

1.2 FOR PATENTS, SEE WWW.CS-PAT.COM

2.0 DESIGN NOTES

2.1 TIGHTEN ALL BOLTS SECURING FLAT PLATES BY THE TURN-OF-NUT METHOD.

TIGHTEN ALL U-BOLTS USING TURN-OF-NUT METHOD WITH ATTENTION TO LEAVE EQUAL DISTANCE AND EQUAL FORCE ON EACH LEG OF THE U-BOLT.

3.0 MANUFACTURING/SPECIAL REQUIREMENTS

4.0 TEST

5.0 PACKAGING

5.1 PACKAGING SHALL MEET COMMSCOPE REQUIREMENTS PER DOCUMENT IS-PL-3005.

5.2 PRINTED DOCUMENT TO BE PLACED INSIDE POLYBAG AND THEN IN SHIPPING CONTAINER.

5.3 EXTRA HARDWARE MAYBE SUPPLIED, BAGGED AND SHIPPED.

REV. A

ECN 10272PC

DESCRIPTION INITIAL RELEASE

BY HDAI

DATE 03/08/2021

REV. B

ECN 14762

DESCRIPTION SHEET 1: UPDATED NOTE 2.1 & ADDED NOTE 5.1 TO 5.2
SHEET 12: REPOSITION ANTENNA PIPES; CHANGED HAND RAIL DISTANCE FORM PLATFORM. 42" WAS 40" IN ZONE B3; DIM Ø 12 WAS Ø 15 IN ZONE D3;
UPDATED ITEM 4: GB-0522A WAS GB-0520A

BY JL1183

DATE 09/10/2021

REV. C

ECN 40139639CMO

DESCRIPTION ADDED WEIGHT AND MASS INFORMATION

BY LL1090

DATE 12/07/2021

1801.56 lbs/in³

6362.00 in³

55884.77 in²

96" 46" 29"

1801.56 lbs

6362.00 in³

55884.77 in²

96" 46" 29"

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PATENT PENDING

COMMSCOPE, INC. OF NORTH CAROLINA

1 PLACE .X ± .25

2 PLACE .XX ± 0.12

3 PLACE .XXX ± 0.06

ANGLES ± 2°

SAP MATERIAL MASTER

MC-PK8-DSH

FINISH

GALV A123

MATERIAL

SEE SEPARATE BILLS OF MATERIAL

NAME

MRC

DATE

02/17/20

TITLE

LOW PROFILE PLATFORM FACE

CE

LL1090

12/07/2021

AD

VCORTEZ1

12/09/2021

RE

VCORTEZ1

12/09/2021

ECN

40139639CMO

SCALE

1:32

DOCUMENT NO.

MC-PK8-DSH

SIZE

Auth Group

INSL

MODEL

VERSION

03

STATUS

RE

REVISION

B

DRAWING

VERSION

02

STATUS

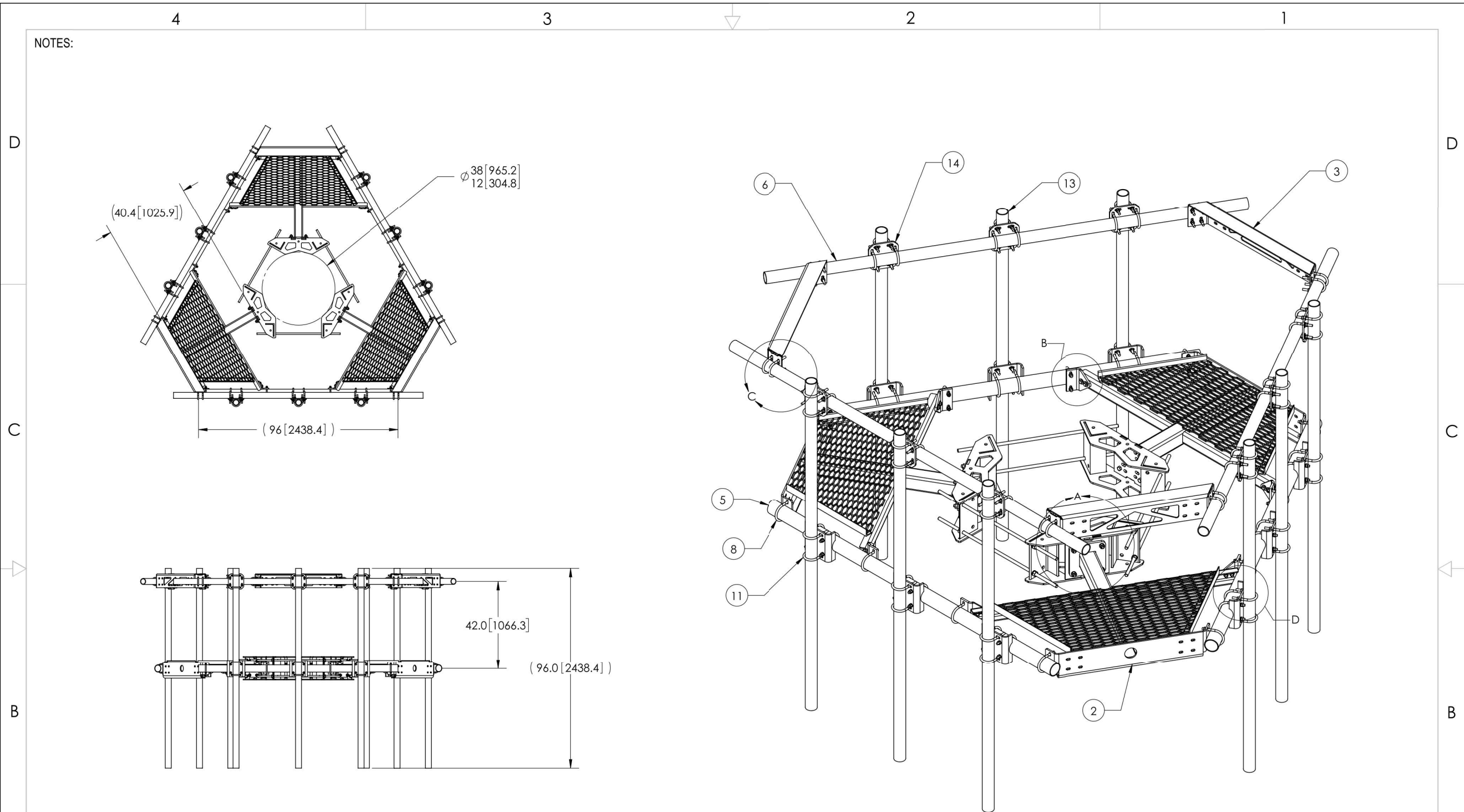
RE

REVISION

C

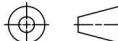
SHEET

1 OF 3

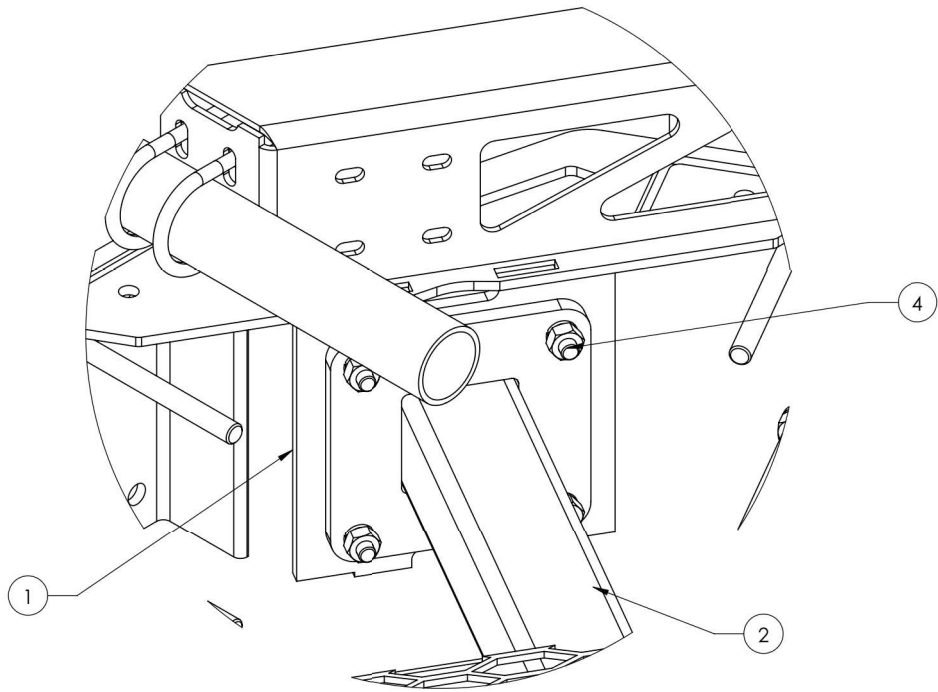


BOM IS FOR REFERENCE ONLY, PART NUMBER SUBSTITUTIONS MAY BE MADE

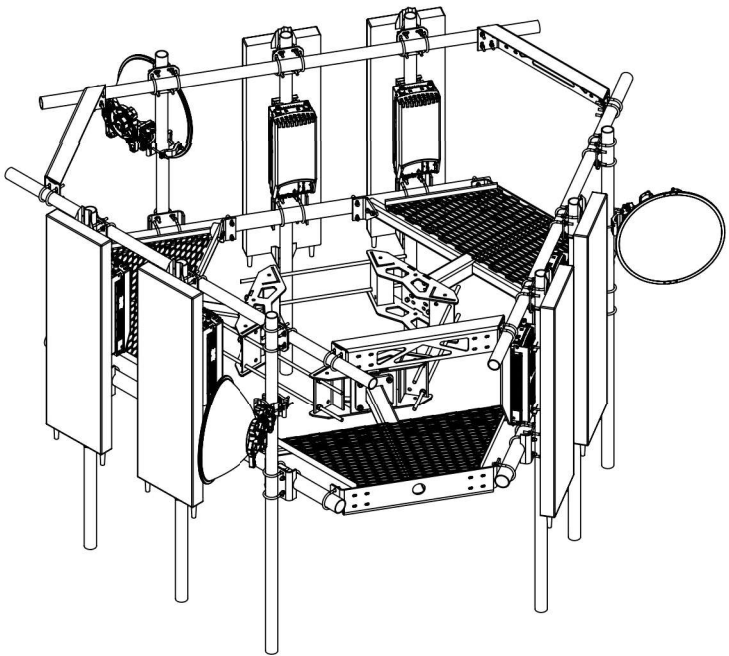
| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|-------------|--|------|
| 1 | MC-RM1550-3 | 12" - 50" OD RINGMOUNT | 1 |
| 2 | MTC300602 | SECTOR WELDMENT FOR SNUB NOSE PLATFORM | 3 |
| 3 | MT195801 | Corner Weldment Snub Nose Handrail | 3 |
| 4 | GB-0522A | 5/8" X 2-1/4" GALV BOLT KIT (A325) | 12 |
| 5 | MT54796 | 3.50" OD X 96" GALV PIPE | 3 |
| 6 | MT546120 | 2.875" O.D. X 120" PIPE | 3 |
| 7 | GWF-04 | 1/2" GALV FLAT WASHER | 12 |
| 8 | GUB-4355 | 1/2" X 3-5/8" X 5" GALV U-BOLT | 12 |
| 9 | MTC300618 | MOUNTING PLATE FOR MT-196 | 6 |
| 10 | GB-04205 | 1/2" X 2" GALV BOLT KIT | 12 |
| 11 | MT-219M-H | 3.5" OD X 2-7/8" OD CLAMP BRACKET ASSY | 9 |
| 12 | GUB-4352 | 1/2" X 3" X 5-1/4" GALV U-BOLT | 12 |
| 13 | MT54696 | Ø 2.875" O.D. X 96 PIPE | 9 |
| 14 | XP-2525 | CROSSOVER PLATE KIT, 2-7/8 OD X 2-7/8 OD | 9 |

| | | | | | |
|---|-------|--------------|--------|-------|----------|
| COMMSCOPE, INC. OF NORTH CAROLINA | | | | | |
| TITLE | | | | | |
| LOW PROFILE PLATFORM FACE | | | | | |
| SIZE | SCALE | DOCUMENT NO. | | | |
| C | 1:32 | MC-PK8-DSH | | | |
|  | | DRAWING | | SHEET | |
| | | VERSION | STATUS | | REVISION |
| | | 02 | RE | | C |

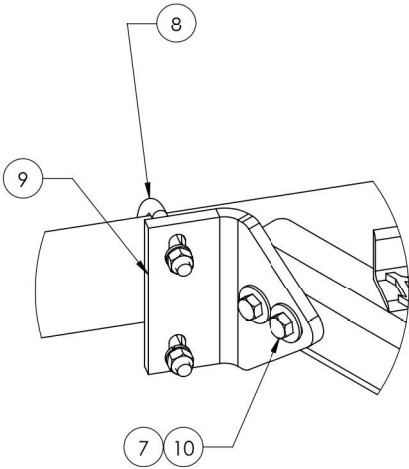
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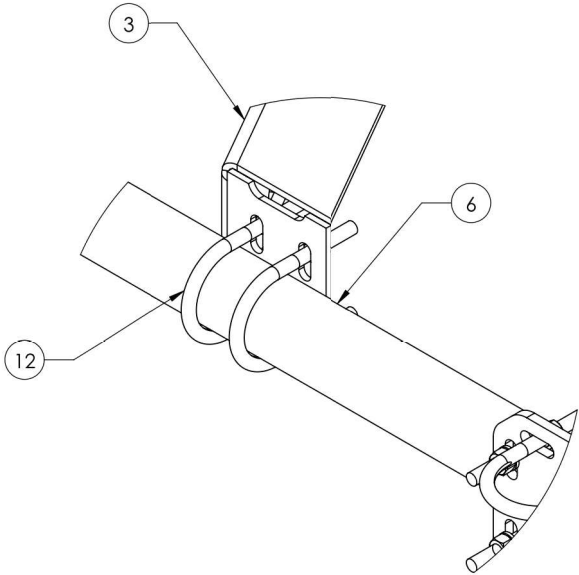
DETAIL A
SCALE 1 : 4



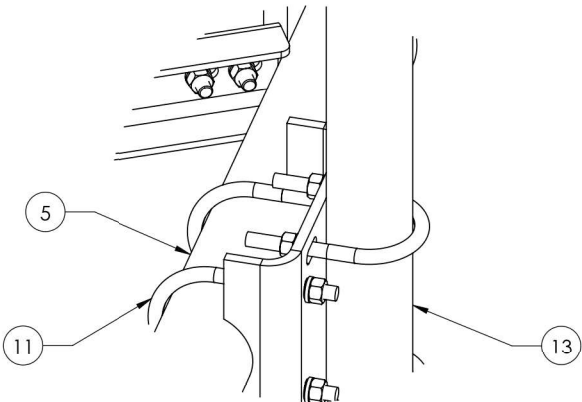
WITH ANTENNAS





DETAIL B
SCALE 1 : 4



DETAIL C
SCALE 1 : 4



DETAIL D
SCALE 1 : 4

| | | | |
|---|-------|--------------|--------|
| COMMScope, INC. OF NORTH CAROLINA | | | |
| TITLE | | | |
| LOW PROFILE PLATFORM FACE | | | |
| SIZE | SCALE | DOCUMENT NO. | |
| C | 1:24 | MC-PK8-DSH | |
|   | | DRAWING | |
| | | VERSION | STATUS |
| | | 02 | RE |
| | | REVISION | C |
| | | SHEET | |
| | | 3 OF 3 | |

Date: **June 11, 2025**



Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317
(724) 416-2000

Subject: **Structural Analysis Report**

Carrier Designation: **T-Mobile Co-Locate**
Site Number: CT11112H
Site Name: Redding/Rt7

Crown Castle Designation: **BU Number:** 826927
Site Name: Redding/Rt7
JDE Job Number: 2151274
Work Order Number: 2394115
Order Number: 708352 Rev. 1

Engineering Firm Designation: **Crown Castle Project Number** 2394115

Site Data: **845 Ethan Allen Highway, Ridgefield, Fairfield County, CT**
Latitude: 41° 18' 46.92" Longitude: -73° 28' 20.73"
110.0 ft - Monopole Tower

Crown Castle is pleased to submit this “**Structural Analysis Report**” to determine the structural integrity of the above-mentioned tower.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC9.8: Proposed Equipment Configuration for New Tower **Sufficient - 47.7% Capacity**

This analysis has been performed in accordance with the 2022 Connecticut State Building Code based upon an ultimate 3-second gust wind speed of 115 mph. Applicable Standard references and design criteria are listed in Section 2 – Analysis Criteria.

Structural analysis prepared by: Steven Hu

Respectfully submitted by:

A handwritten signature in black ink that reads 'Sudarshan C. Kasera'.

Digitally signed by Sudarshan C

Kasera

Date: 2025.06.18 09:13:22 -04'00'

Sudarshan C Kasera, P.E.
Senior Project Engineer

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Table 2 - Other Considered Equipment

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Table 3 - Documents Provided

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4) ANALYSIS RESULTS

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Table 5 - Tower Component Stresses vs. Capacity - LC9.8

4.1) Recommendations

5) APPENDIX A

tnxTower Output

6) APPENDIX B

Base Level Drawing

7) APPENDIX C

Additional Calculations

1) INTRODUCTION

This tower is a 110.0 ft Monopole Tower designed by Tapp.

2) ANALYSIS CRITERIA

| | |
|-----------------------------|-----------|
| TIA-222 Revision: | TIA-222-H |
| Risk Category: | II |
| Wind Speed: | 115 mph |
| Exposure Category: | C |
| Topographic Factor: | 1 |
| Ice Thickness: | 1.00 in |
| Wind Speed with Ice: | 50 mph |
| Service Wind Speed: | 60 mph |

Table 1 - Proposed Equipment Configuration

| Mounting Level (ft) | Center Line Elevation (ft) | Number of Antennas | Antenna Manufacturer | Antenna Model | Number of Feed Lines | Feed Line Size (in) |
|---------------------|----------------------------|--------------------|----------------------|--------------------------------------|----------------------|---------------------|
| 94 | 94 | 3 | ericsson | 4003_840590966_TMO w/ Mount Pipe | 3 | 1-5/8 |
| | | 3 | ericsson | AIR 6419 B41_TMO_CCIV3 w/ Mount Pipe | | |
| | | 3 | ericsson | RADIO 4460 B2/B25 B66_20210820_TMO | | |
| | | 3 | ericsson | RADIO 4480 B71 B85A_20210820_TMO | | |
| | | 1 | tower mounts | Commscope MC-PK8-DSH | | |

Table 2 - Other Considered Equipment

| Mounting Level (ft) | Center Line Elevation (ft) | Number of Antennas | Antenna Manufacturer | Antenna Model | Number of Feed Lines | Feed Line Size (in) |
|---------------------|----------------------------|--------------------|----------------------------|--------------------------------------|----------------------|---------------------|
| 106 | 107 | 1 | raycap | RCMDC-6627-PF-48 | 2 | 1-5/8 |
| | 106 | 6 | jma wireless | MX06FRO860-03 w/ Mount Pipe | | |
| | | 3 | samsung telecommunications | MT6413-77A w/ Mount Pipe | | |
| | | 3 | samsung telecommunications | RF4439D-25A | | |
| | | 3 | samsung telecommunications | RF4461D-13A | | |
| | | 3 | samsung telecommunications | RT4423-48A/B | | |
| | | 3 | samsung telecommunications | XXDWMM-12.5-65-8T-CBRS w/ Mount Pipe | | |
| | | 1 | tower mounts | Commscope MC-K6MHD-9-96 (3) | | |
| 82 | 82 | 3 | commscope | FFV-65B-R2 w/ Mount Pipe | 1 | 1-3/8 |
| | | 3 | fujitsu | TA08025-B604 | | |
| | | 3 | fujitsu | TA08025-B605 | | |
| | | 1 | raycap | RDIDC-9181-PF-48_V2 | | |

| Mounting Level (ft) | Center Line Elevation (ft) | Number of Antennas | Antenna Manufacturer | Antenna Model | Number of Feed Lines | Feed Line Size (in) |
|---------------------|----------------------------|--------------------|----------------------|----------------------|----------------------|---------------------|
| | | 1 | tower mounts | Commscope MC-PK8-DSH | | |
| 70 | 70 | 3 | epa equipment | EPA 175 (Sectorized) | 18 | 1-5/8 |

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

| Document | Reference | Source |
|--|-----------|----------|
| 4-GEOTECHNICAL REPORTS | 10376072 | CCISITES |
| 4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS | 10940324 | CCISITES |
| 4-TOWER MANUFACTURER DRAWINGS | 10940323 | CCISITES |

3.1) Analysis Method

tnxTower (version 8.3.0.5), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

3.2) Assumptions

- 1) Tower and structures were maintained in accordance with the TIA-222 Standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.

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

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

| Section No. | Elevation (ft) | Component Type | Size | Critical Element | P (K) | SF*P_allow (K) | % Capacity | Pass/Fail |
|-------------|----------------|----------------|-----------------------|------------------|--------|----------------|------------|-----------|
| L1 | 110 - 63 | Pole | TP32.71x24x0.1875 | 1 | -16.55 | 1158.39 | 43.8 | Pass |
| L2 | 63 - 48 | Pole | TP35.11x31.5011x0.25 | 2 | -18.97 | 1654.00 | 47.7 | Pass |
| L3 | 48 - 0 | Pole | TP43.5x33.6846x0.4375 | 3 | -33.35 | 3673.07 | 43.7 | Pass |
| | | | | | | | Summary | |
| | | | | | | Pole (L2) | 47.7 | Pass |
| | | | | | | RATING = | 47.7 | Pass |

Table 5 - Tower Component Stresses vs. Capacity - LC9.8

| Notes | Component | Elevation (ft) | % Capacity | Pass / Fail |
|-------|------------------------------|----------------|------------|-------------|
| 1 | Anchor Rods | 0 | 44.9 | Pass |
| 1 | Base Plate | 0 | 36.9 | Pass |
| 1 | Base Foundation (Structural) | 0 | 37.7 | Pass |
| 1 | Base Foundation (Soil) | 0 | 37.9 | Pass |

| | |
|---|--------------|
| Structure Rating (max from all components) = | 47.7% |
|---|--------------|

Notes:

- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed

4.1) Recommendations

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

APPENDIX A

TNXTOWER OUTPUT

Date: **May 14, 2025**



Trylon
1825 W. Walnut Hill Lane,
Suite 302
Irving, TX 75038
214-930-1730

| | | |
|--------------------------------------|---|--------------------------|
| Subject: | Mount Analysis - Conditional Passing Report | |
| Carrier Designation: | T-Mobile Equipment Change-Out | |
| | Carrier Site Number: | CT11112H |
| | Carrier Site Name: | Redding/Rt7 |
| Crown Castle Designation: | BU Number: | 826927 |
| | Site Name: | Redding/Rt7 |
| | JDE Job Number: | 2151274 |
| | Order Number: | 708352 Rev.0 |
| Engineering Firm Designation: | Trylon Report Designation: | 253684 |
| Site Data: | 845 Ethan Allen highway, Ridgefield, Fairfield County, CT, 06877 Latitude 41°18'46.92" Longitude -73°28'20.73" | |
| Structure Information: | Tower Height & Type: | 110.0 ft Monopole |
| | Mount Elevation: | 94.0 ft |
| | Mount Width & Type: | 8.0 ft Platform |

Trylon is pleased to submit this **"Mount Analysis - Conditional Passing Report"** to determine the structural integrity of T-Mobile's antenna mounting system with the proposed appurtenance and equipment addition on the abovementioned supporting tower structure. Analysis of the existing supporting tower structure is to be completed by others and therefore is not part of this analysis. Analysis of the antenna mounting system as a tie-off point for fall protection or rigging is not part of this document.

The purpose of the analysis is to determine acceptability of the mount stress level. Based on our analysis we have determined the mount stress level to be:

Platform

Sufficient*

***Sufficient upon completion of the changes listed in the 'Recommendations' section of this report.**

This analysis has been performed in accordance with the 2022 Connecticut State Building Code based upon an ultimate 3-second gust wind speed of 120 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Mount analysis prepared by: Alexandru Ciuca

Respectfully Submitted by:
Cliff Abernathy, P.E.

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3.2) Assumptions

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Wire Frame and Rendered Models

6) APPENDIX B

Software Input Calculations

7) APPENDIX C

Software Analysis Output

8) APPENDIX D

Additional Calculations

9) APPENDIX E

Supplemental Drawings

1) INTRODUCTION

This is a proposed 8.0 ft Platform, designed by Commscope.

2) ANALYSIS CRITERIA

| | |
|---|----------------------|
| Building Code: | 2022 CSBC / 2021 IBC |
| TIA-222 Revision: | TIA-222-H |
| Risk Category: | II |
| Ultimate Wind Speed: | 120 mph |
| Exposure Category: | C |
| Topographic Factor at Base: | 1.00 |
| Topographic Factor at Mount: | 1.00 |
| Ice Thickness: | 1.00 in |
| Wind Speed with Ice: | 50 mph |
| Seismic S_s: | 0.219 |
| Seismic S_1: | 0.055 |
| Live Loading Wind Speed: | 30 mph |
| Man Live Load at Mid/End-Points: | 250 lb |
| Man Live Load at Mount Pipes: | 500 lb |

Table 1 - Proposed Equipment Configuration

| Mount Centerline (ft) | Antenna Centerline (ft) | Number of Antennas | Antenna Manufacturer | Antenna Model | Mount / Modification Details |
|-----------------------|-------------------------|--------------------|----------------------|--|--|
| 94.0 | 94.0 | 3 | Ericsson | 4003_840590966_TMO | 8.0 ft Platform [Commscope, MC-PK8-DSH] |
| | | 3 | Ericsson | AIR 6419 B41_TMO_CCIV3 | |
| | | 3 | Ericsson | RADIO 4460 B2/B25 B66_20210820_TMO | |
| | | 3 | Ericsson | RADIO 4480 B71 B85A_20210820_TMO | |

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

| Document | Remarks | Reference | Source |
|-----------------------------|----------------------|---------------|-----------|
| Crown Application | T-Mobile Application | 708352, Rev.0 | CCI Sites |
| Mount Manufacturer Drawings | Commscope | MC-PK8-DSH | Trylon |

3.1) Analysis Method

RISA-3D (Version 17.0.4), a commercially available analysis software package, was used to create a three-dimensional model of the antenna mounting system and calculate member stresses for various loading cases.

A tool internally developed, using Microsoft Excel, by Trylon was used to calculate wind loading on all appurtenances, dishes, and mount members for various load cases. Selected output from the analysis is included in Appendix B.

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 *Tower Mount Analysis* (Revision E).

3.2) Assumptions

- 1) The antenna mounting system was properly fabricated, installed and maintained in good condition in accordance with its original design and manufacturer's specifications.
- 2) The configuration of antennas, mounts, and other appurtenances are as specified in Table 1 and the referenced drawings.
- 3) All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
- 4) The analysis will be required to be revised if the existing conditions in the field differ from those shown in the above-referenced documents or assumed in this analysis. No allowance was made for any damaged, missing, or rusted members.
- 5) Prior structural modifications to the tower mounting system are assumed to be installed as shown per available data.
- 6) Steel grades have been assumed as follows, unless noted otherwise:

| | |
|------------------------------------|---------------------|
| Channel, Solid Round, Angle, Plate | ASTM A36 (GR 36) |
| HSS (Rectangular) | ASTM A500 (GR B-46) |
| Pipe | ASTM A53 (GR 35) |
| Connection Bolts | ASTM A325 |

This analysis may be affected if any assumptions are not valid or have been made in error. Tylon should be notified to determine the effect on the structural integrity of the antenna mounting system.

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (Platform, All Sectors)

| Notes | Component | Critical Member | Centerline (ft) | % Capacity | Pass / Fail |
|---------|---------------------|-----------------|-----------------|------------|-------------|
| 1, 2, 3 | Mount Pipe(s) | MP4 | 54.0 | 21.2 | Pass |
| | Horizontal(s) | H3 | | 25.3 | Pass |
| | Standoff(s) | M2 | | 34.1 | Pass |
| | Bracing(s) | M6 | | 34.7 | Pass |
| | Handrail(s) | M22 | | 16.1 | Pass |
| | Mount Connection(s) | - | | 27.3 | Pass |

| | |
|---|--------------|
| Structure Rating (max from all components) = | 34.7% |
|---|--------------|

Notes:

- 1) See additional documentation in "Appendix C - Software Analysis Output" for calculations supporting the % capacity consumed.
- 2) See additional documentation in "Appendix D – Additional Calculations" for detailed mount connection calculations.
- 3) Rating per TIA-222-H, Section 15.5

4.1) Recommendations

The mount has sufficient capacity to carry the proposed loading configuration. In order for the results of the analysis to be considered valid, the proposed mount listed below must be completed.

1. Installation of Commscope, MC-PK8-DSH, platform.

No structural modifications are required at this time, provided that the above-listed changes are implemented.

APPENDIX A
WIRE FRAME AND RENDERED MODELS



FOX HILL TELECOM

Radio Frequency Emissions Analysis Report



Site ID: CT11112H

Redding / Rt 7
845 Ethan Allen Highway
Ridgefield, CT 06877

August 14, 2025

Fox Hill Telecom Project Number: 250312

| Site Compliance Summary | |
|---|-----------|
| Compliance Status: | COMPLIANT |
| Site total MPE% of FCC general population allowable limit at ground level: | 5.50 % |



August 14, 2025

T-MOBILE
Attn: RF Manager
35 Griffin Road South
Bloomfield, CT 06009

Emissions Analysis for Site: **CT11112H – Redding / Rt 7**

Fox Hill Telecom, Inc (“Fox Hill”) was directed to analyze the proposed upgrades to the existing T-MOBILE Monopole facility located at **845 Ethan Allen Highway, Ridgefield, CT**, for the purpose of determining whether the emissions from the Proposed T-MOBILE Antenna Installation located on this property 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 people 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 people in a nearby residential area.

General 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 600 MHz & 700 MHz bands are approximately $400 \mu\text{W}/\text{cm}^2$ and $467 \mu\text{W}/\text{cm}^2$ respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 2500 MHz (BRS) bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report the percentage of MPE rather than power density.



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Occupational/controlled exposure limits apply to situations in which people are exposed as a consequence of their employment and in which those people 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 (see below), 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 upgrades to the T-MOBILE antenna facility located at **845 Ethan Allen Highway, Ridgefield, CT**, using the equipment information listed below. All calculations were performed following the specifications under FCC OET 65 for far field modeling calculations.

In OET-65, power density values in the Far Field of an antenna are calculated by considering the transmit power in each band specified and multiplied by the antenna gain values per the antenna manufacturer specifications.

Since the radiation pattern of an antenna has developed in the **Far Field** region, the power gain in specific directions needs to be considered in exposure predictions to yield an Effective Radiated Power (ERP) in each specific direction from the antenna. Also, since the vertical radiation pattern of the antenna is considered, the exposure calculations would most likely be reduced at ground level, when compared to an isotropic model, resulting in a more realistic estimate of the actual exposure levels.

A worst-case **Far Field** prediction is described in OET-65 where field strength may double due to 100% reflection of the incoming radiation. Considering an EPA recommendation that a multiplier of 1.6 is a more realistically representation of this effect is rewritten as follows:

$$S_{FF} = \frac{33.4 \cdot P_{in} \cdot G_{dBd}}{R^2} \quad (\mu W/cm^2)$$

- S_{FF} = Power Density (in $\mu W/cm^2$)
- P_{in} is Watts
- R is meters to study point
- G is gain to study point as specified in manufacturer horizontal and vertical patterns

This model calculates the power density at a single point in space. In order to determine the spatial power density in comparison to the FCC limits, the average of several points calculated within the human profile (0 to 6 feet) must be conducted. Seven power density values, between 0 and 6 feet above the specified study plane at each point, were calculated and a linear spatial average of these values was used to create the spatially averaged result for that point on the plane.



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

| Technology | Frequency Band | Channel Count | Transmit Power per Channel (W) |
|------------|----------------|---------------|--------------------------------|
| 5G NR | 600 MHz | 4 | 60 |
| LTE | 700 MHz | 4 | 20 |
| LTE | 1900 MHz (PCS) | 4 | 35 |
| 5G NR | 1900 MHz (PCS) | 4 | 40 |
| LTE | 2100 MHz (AWS) | 4 | 60 |
| 5G NR | 2500 MHz (BRS) | 8 | 40 |

Table 1: Channel Data Table



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The following T-Mobile antennas listed in *Table 2* were used in the modeling for transmission in the 600 MHz, 700 MHz, 1900 MHz (PCS), 2100 MHz (AWS) and 2500 MHz (BRS) frequency bands. This is based on feedback from the carrier with regards to anticipated antenna selection. Maximum gain values for all antennas are listed in the Inventory and Power Data table below.

| Sector | Antenna Number | Antenna Make / Model | Antenna Centerline (ft) |
|--------|----------------|----------------------|-------------------------|
| A | 1 | Ericsson 840590966 | 94 |
| A | 2 | Ericsson AIR6419 B41 | 94 |
| B | 1 | Ericsson 840590966 | 94 |
| B | 2 | Ericsson AIR6419 B41 | 94 |
| C | 1 | Ericsson 840590966 | 94 |
| C | 2 | Ericsson AIR6419 B41 | 94 |

Table 2: Antenna Data

All calculations were made with respect to uncontrolled / general population threshold limits.



RESULTS

Per the calculations completed for the proposed T-MOBILE configurations *Table 3* shows resulting emissions power levels and percentages of the FCC's allowable general population limit, at ground level.

| Antenna ID | Antenna Make / Model | Frequency Bands | Antenna Gain (dBd) | Channel Count | Total TX Power (W) | ERP (W) | MPE % |
|-------------------------|----------------------|---|------------------------------|---------------|--------------------|-----------|-------------|
| Antenna A1 | Ericsson 840590966 | 600 MHz / 700 MHz / 1900 MHz (PCS) / 2100 MHz (AWS) | 12.95 / 13.65 / 15.5 / 15.45 | 20 | 856 | 25,508.25 | 1.02 |
| Antenna A2 | Ericsson AIR6419 B41 | 2500 MHz (BRS) | 21.5 | 21 | 320 | 45,201.20 | 1.12 |
| Sector A Composite MPE% | | | | | | | 2.14 |
| Antenna B1 | Ericsson 840590966 | 600 MHz / 700 MHz / 1900 MHz (PCS) / 2100 MHz (AWS) | 12.95 / 13.65 / 15.5 / 15.45 | 20 | 856 | 25,508.25 | 1.02 |
| Antenna B2 | Ericsson AIR6419 B41 | 2500 MHz (BRS) | 21.5 | 21 | 320 | 45,201.20 | 1.12 |
| Sector B Composite MPE% | | | | | | | 2.14 |
| Antenna C1 | Ericsson 840590966 | 600 MHz / 700 MHz / 1900 MHz (PCS) / 2100 MHz (AWS) | 12.95 / 13.65 / 15.5 / 15.45 | 20 | 856 | 25,508.25 | 1.02 |
| Antenna C2 | Ericsson AIR6419 B41 | 2500 MHz (BRS) | 21.5 | 21 | 320 | 45,201.20 | 1.12 |
| Sector C Composite MPE% | | | | | | | 2.14 |

Table 3: T-MOBILE Emissions Levels at ground level



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The Following table (*table 4*) shows all additional identified carriers on site and their emissions contribution estimates, along with the newly calculated maximum T-MOBILE MPE contributions per this report. 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. For this site, all three T-Mobile sectors have the same configuration, yielding the same results for all three sectors. *Table 5* below shows a summary for each T-MOBILE Sector as well as the composite estimated MPE value for the site.

| Site Composite MPE% | |
|---------------------------------|---------------|
| Carrier | MPE% |
| T-MOBILE – Max Per Sector Value | 2.14 % |
| Verizon Wireless | 2.46 % |
| Dish Wireless | 0.90 % |
| Site Total MPE %: | 5.50 % |

Table 4: All Carrier MPE Contributions at ground level

| | |
|--------------------------|--------|
| T-MOBILE Sector A Total: | 2.14 % |
| T-MOBILE Sector B Total: | 2.14 % |
| T-MOBILE Sector C Total: | 2.14 % |
| | |
| Site Total: | 5.50 % |

Table 5: Site MPE Summary



Table 6 below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated T-MOBILE sector(s). For this site, all three T-Mobile sectors have the same configuration, yielding the same results for all three sectors.

| T-MOBILE _ Frequency Band / Technology Max Power Values (Per Sector) | # Channels | Watts ERP (Per Channel) | Height (feet) | Total Power Density ($\mu\text{W}/\text{cm}^2$) | Frequency (MHz) | Allowable MPE ($\mu\text{W}/\text{cm}^2$) | Calculated % MPE |
|--|---------------|----------------------------|------------------|---|--------------------|---|---------------------|
| T-Mobile 600 MHz 5G NR | 4 | 1,183.45 | 94 | 2.00 | 600 MHz | 400 | 0.50% |
| T-Mobile 700 MHz LTE | 4 | 463.48 | 94 | 0.65 | 700 MHz | 467 | 0.14% |
| T-Mobile 1900 MHz (PCS) LTE | 4 | 1,206.37 | 94 | 1.20 | 1900 MHz (PCS) | 1000 | 0.12% |
| T-Mobile 1900 MHz (PCS) 5G NR | 4 | 1,419.25 | 94 | 1.40 | 1900 MHz (PCS) | 1000 | 0.14% |
| T-Mobile 2100 MHz (AWS) 5G NR | 4 | 2,104.51 | 94 | 1.20 | 2100 MHz (AWS) | 1000 | 0.12% |
| T-Mobile 2500 MHz (BRS) LTE / 5G NR | 8 | 5,650.15 | 94 | 11.20 | 2500 MHz (BRS) | 1000 | 1.12% |
| | | | | | | Total: | 2.14 % |

Table 6: T-MOBILE 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 T-MOBILE facility as well as the site composite emissions estimates value with regard to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

| T-MOBILE Sector | Power Density Value (%) |
|---|-------------------------|
| Sector A: | 2.14 % |
| Sector B: | 2.14 % |
| Sector C: | 2.14 % |
| T-MOBILE Maximum Total (per sector): | 2.14 % |
| | |
| Site Total: | 5.50 % |
| | |
| Site Compliance Status: | COMPLIANT |

The estimated composite MPE value for this site assuming all carriers present is **5.50 %** of the allowable FCC established general population limit sampled at the ground level. This is based upon the far field calculations performed for all carriers identified in this report.

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 estimated values calculated were well within the allowable 100% threshold standard per the federal government.

Scott Heffernan
Principal RF Engineer
Fox Hill Telecom, Inc
Worcester, MA 01609
(978)660-3998



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

E-Mail: siting.council@ct.gov

www.ct.gov/csc

November 17, 2014

Rachel A. Schwartzman, Esq.
Cohen and Wolf P.C.
1115 Broad Street
P.O. Box 1821
Bridgeport, CT 06601

RE: **EM-T-MOBILE-118-141027** – T-Mobile Northeast LLC notice of intent to modify an existing telecommunications facility located at 845 Ethan Allan Highway, Ridgefield, Connecticut.

Dear Attorney Schwartzman:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

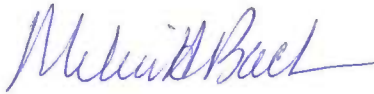
- Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
- Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- Within 45 days after completion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

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated October 24, 2014. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below state and federal standards applicable to the frequencies now used on this tower.



This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Very truly yours,



Melanie A. Bachman
Acting Executive Director

MAB/RM/lm

- c: The Honorable Rudolph P. Marconi, First Selectman, Town of Ridgefield
- Betty Brosius, Town Planner, Town of Ridgefield
- Crown Castle USA, Inc.
- The Siena Company

ID : 8760
PropertyAddress : 845 ETHAN ALLEN HWY
PropertyStreet : ETHAN ALLEN HWY
MapSheet :
OwnerName : Contact Town For Info
CoOwnerName :
OwnerAddress :
OwnerAddress2 :
OwnerCity :
OwnerState :
OwnerZip :
ParcelNumber : G10-0015
GisFullNumber : G10-0015
CamaFullNumber : G10-0015
PID : G100015
Unique_ID : G100015
MBL : G10-0015
Map :
Block :
Lot :

Street_Name : ETHAN ALLEN HWY
Street_Number : 845
Street_Unit :
Omit_From_Web : Yes
Name : 845 LLC
Name2 :
Careof :
Address1 : 107 LORDS HIGHWAY
Address2 :
City : WESTON
State : CT
Zipcode : 06883
Sale_Date :
Sale_Price : 0
ValidSale : False
VolPage : 0785/0744
building_number : 1
Actual_Year_Built : 1975
Stories : 1.00
Gross_Living_area : 7247

