

# 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 Web Site: portal.ct.gov/csc

### VIA ELECTRONIC MAIL

January 27, 2022

David DePinto
Site Acquisition Specialist
Transcend Wireless
10 Industrial Avenue, Suite 3
Mahwah, NJ 07430
ddepinto@transcendwireless.com

**RE: EM-T-MOBILE-142-211220** – T-Mobile notice of intent to modify an existing telecommunications facility located at 1 Eagle Hill, Tolland, Connecticut.

Dear Mr. DePinto:

The Connecticut Siting Council (Council) is in receipt of your correspondence of January 26, 2022 submitted in response to the Council's January 25, 2022 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

The submission renders the request for exempt modification complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman Executive Director

Melinessel

MAB/FOC/emr



### 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
Web Site: portal.ct.gov/csc

### VIA ELECTRONIC MAIL

January 25, 2022

David DePinto
Site Acquisition Agent
Transcend Wireless
10 Industrial Ave Suite 3
Mahwah, NJ 07430
ddepinto@transcendwireless.com

RE: **EM-T-MOBILE-142-211220** – T-Mobile notice of intent to modify an existing telecommunications facility located at 1 Eagle Hill, Tolland, Connecticut.

Dear Mr. DePinto:

The Connecticut Siting Council (Council) received a notice of intent to modify the above-referenced facility on December 20, 2021.

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

Staff has reviewed this exempt modification request for completeness and has identified a deficiency in the submittal. The Construction Drawings (CD) prepared by Colliers Engineering and Design dated October 25, 2021 (Rev 1) and provided with the request does not include a stamp/signature of a Professional Engineer licensed in the State of Connecticut.

Therefore, the exempt modification request is incomplete at this time. The Council recommends that Transcend Wireless provide a CD that is stamped and signed by a Professional Engineer licensed in the State of Connecticut on or before February 25, 2022. If additional time is needed to gather the requested information, please submit a written request for an extension of time prior to February 25, 2022. Please provide an electronic version and one hard copy of the response for the incomplete request to be rendered complete and processed. Please include the Council's exempt modification identification number referenced above with the submittal.

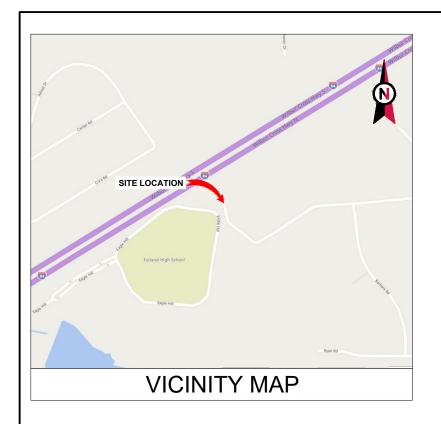
This notice of incompletion shall have the effect of tolling the Federal Communications Commission (FCC) 60-day timeframe in accordance with Paragraph 217 of the FCC Wireless Infrastructure Report and Order issued on October 21, 2014 (FCC 14-153).

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

Sincerely,

Melanie Bachman Executive Director

MAB/FOC/emr





ATC SITE NAME: TOLLAND CT ATC SITE NUMBER: 302495 T-MOBILE SITE NAME: CT11725A T-MOBILE SITE NUMBER: CT11725A SITE ADDRESS: 1 EAGLE HILL

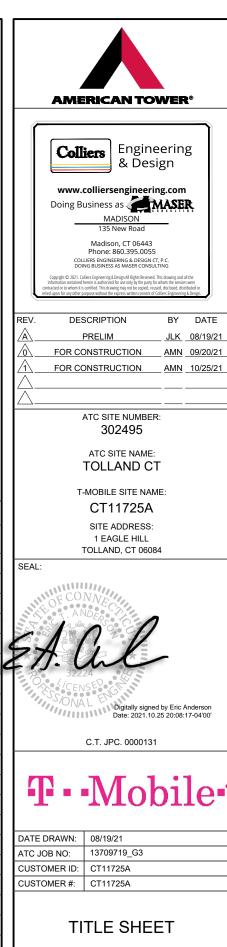


**LOCATION MAP** 

### T-MOBILE SPRINT RETAIN ANTENNA AMENDMENT PLAN 67E5A998E 6160 CONFIGURATION

TOLLAND, CT 06084

COMPLIANCE CODE	PROJECT SUMM	ARY	PROJECT DESCRIPTION	SHEET IND				
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE	SITE ADDRESS:		THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS	1 EAGLE HILL		TOWER WORK:	G-001	TITLE SHEET	1	10/25/21	JLK
TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO	TOLLAND, CT 06084		REMOVE (6) ANTENNA(s), (12) RRH(s) AND (3) HYBRID CABLE(s)	G-002	GENERAL NOTES	1	10/25/21	JLK
THESE CODES.  1. 2018 CONNECTICUT STATE BUILDING CODE.	COUNTY: TOLLAND		INSTALL (9) ANTENNA(s), (6) RRH(s) AND (2) HYBRID CABLE(s)	C-101	DETAILED SITE PLAN	1	10/25/21	JLK
INCORPORATING THE 2015 IBC	GEOGRAPHIC COORDINA	ATES:	REMOVE ALL NEXTEL EQUIPMENT AND MOUNTS AT 121' AGL	C-201	TOWER ELEVATION	1	10/25/21	JLK
2. 2017 NATIONAL ELECTRICAL CODE - NFPA 70	LATITUDE: 41.8733403		NEWOVE ALE NEXT LE EQUIT WENT AND WOONTO AT 121 AGE					
3. LOCAL BUILDING CODE	LONGITUDE: -72.33830		GROUND WORK:	C-401	ANTENNA INFORMATION & SCHEDULE	1	10/25/21	JLK
4. CITY/COUNTY ORDINANCES	GROUND ELEVATION: 695	5' AMSL	INSTALL (1) ENCLOSURE 6160 AND (1) B160, (3) BB6648, (1) DUG20 AND (1) CSR IXRE V2	C-501	CONSTRUCTION DETAILS	1	10/25/21	JLK
				E-501	GROUNDING DETAILS	1	10/25/21	JLK
				E-502	ELECTRICAL UPGRADE DIAGRAM	1	10/25/21	JLK
			PROJECT NOTES	R-601	SUPPLEMENTAL			
	PROJECT TEA	M	1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED. 6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION. REMOVAL. AND/OR REPLACEMENT OF	R-602	SUPPLEMENTAL			
	TOWER OWNER:	APPLICANT:		R-603	SUPPLEMENTAL			
UTILITY COMPANIES	AMERICAN TOWER	T-MOBILE		R-604	SUPPLEMENTAL			
POWER COMPANY: CONNECTICUT LIGHT & POWER PHONE: (800) 322-3223	10 PRESIDENTIAL WAY WOBURN, MA 01801			R-605	SUPPLEMENTAL			
TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (800) 921-8102	ENGINEER:  COLLIERS ENGINEERING &  DESIGN CT. P.C.							
Know what's below. Call before you dig.	135 NEW ROAD MADISON, CT 06443		TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).					
	PROJECT #:		PROJECT LOCATION DIRECTIONS					
	21904320A  PROPERTY OWNER:  TOLLAND CT 56 RUOPS ROAD TOLLAND, CT 06084		FROM HARTFORD TAKE I-84 E TO EXIT 68. TURN RIGHT ONTO RT 195. AT LIGHT TURN LEFT ON RHODES RD (ABOUT .3 MILES) FOLLOW FOR 2 MILES THEN TURN LEFT ON KATE RD. FOLLOW FOR ABOUT .8 MILES AND TURN LEFT ON ROUPS RD. ACCESS ROAD IS AT THE END.					



SHEET NUMBER:

G-001

REVISION:

AMN 09/20/21

### **GENERAL CONSTRUCTION NOTES:**

- OWNER FURNISHED MATERIALS, T-MOBILE "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
  - BIS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
  - B. AC/TELCO INTERFACE BOX (PPC)
  - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
  - D. TOWERS, MONOPOLES
  - E. TOWER LIGHTING
  - F. GENERATORS & LIQUID PROPANE TANK
  - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
  - H. ANTENNAS (INSTALLED BY OTHERS)
  - I. TRANSMISSION LINE
  - J. TRANSMISSION LINE JUMPERS
  - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
  - L. TRANSMISSION LINE GROUND KITS
  - M. HANGERS
  - N. HOISTING GRIPS
  - O. BTS EQUIPMENT
- 2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF T-MOBILE TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED
- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
- 4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- 7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
- 8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR ROLL TS. ETC.
- 11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
- 12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE T-MOBILE REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE T-MOBILE REP PRIOR TO PROCEEDING.
- 13. EACH CONTRACTOR SHALL COOPERATE WITH THE T-MOBILE REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS
  PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION
  OF THE T-MORILE CONSTRUCTION MANAGER
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE T-MOBILE REP AND ENGINEER OF RECORD INVESTIGATION.
- CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- 18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF FACH DAY
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC). AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- CONTRACTOR SHALL FURNISH T-MOBILE AND AMERICAN TOWER CORPORATION (ATC)
   WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
- 11. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL

- PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP
  TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY T-MOBILE MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
- 23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE SPECIFICATIONS AND REQUIREMENTS.
- 24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO T-MOBILE FOR REVIEW AND
- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
- 26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN.

  THE CONTRACTOR SHALL BE SOLELLY RESPONSIBLE FOR ALL THE CONSTRUCTION
  MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR
  COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- CONTRACTOR SHALL NOTIFY T-MOBILE REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL
- 28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXESSLOPING, BARRIERS, ETC.
- 29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
- 30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE T-MOBILE REP. ANY WORK FOUND BY THE T-MOBILE REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS ORTAINED.
- 31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
- 32. T-MOBILE FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE T-MOBILE WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
- 33. T-MOBILE OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO T-MOBILE OR THEIR ARCHITECT/ENGINEER.

### SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

- WORK INCLUDED
  - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY T-MOBILE UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OD COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
  - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND T-MOBILE SPECIFICATIONS.
  - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
  - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOLIT OF THAT TEST.
  - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN IDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
  - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS, WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
  - G. ANTENNA AND COAXIAL CABLE GROUNDING:
- ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR FOLIAL

 ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

#### **ELECTRICAL NOTES:**

- ELECTRICAL DESIGN SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR.
  STRUCTURAL DESIGN SHALL BE PERFORMED BY GENERAL CONTRACTOR. ELECTRICAL
  CONTRACTOR SHALL ENSURE THAT ALL WORK COMPLIES WITH ALL APPLICABLE LOCAL
  AND STATE CODES AND NATIONAL ELECTRICAL CODE.
- 2. ALL SUGGESTED ELECTRICAL ELEMENTS (SUCH AS BREAKER SIZES, WIRE SIZES, CONDUITS SIZES ARE FOR ZONING PURPOSES ONLY. IT IS THE RESPONSIBILITY TO OF THE ELECTRICAL CONTRACTOR TO CONFIRM COMPLIANCE WITH LOCAL ELECTRICAL CODES AND PASS ALL APPLICABLE AND NECESSARY INSPECTIONS. IN SOME EVENTS, IT MAY BE NECESSARY TO PERFORM AN ELECTRICAL LOAD STUDY TO VERIFY THE CAPACITY OF THE EXISTING SERVICE. THIS IS NOT THE RESPONSIBILITY OF CONCORDIA IT IS THE RESPONSIBILITY OF THE ELECTRICAL. CONTRACTOR.
- CONTRACTOR SHALL FIELD LOCATE ALL BELOW GRADE GROUND LINES AND UTILITY LINES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR RELOCATION OF ALL UTILITIES AND GROUND LINES THAT MAY BECOME DISTURBED OR CONFLICTING IN THE COURSE OF CONSTRUCTION.

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE
CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC
ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN.
FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR
ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR
APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE
RESPONSIBILITY OF THE GENERAL CONTRACTOR.





www.colliersengineering.com
Doing Business as MASER
MADISON

Madison, CT 06443 Phone: 860.395.0055 COLLIERS ENGINEERING & DESIGN CT, P.C. DOING BUSINESS AS MASER CONSULTING

Copyright GS 2021. Coller's Engineering & Design Air Rights Reserved. Into drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

REV.	DESCRIPTION	BY	DATE
<u> </u>	PRELIM	JLK_	08/19/21
<u> </u>	FOR CONSTRUCTION	AMN	09/20/21
<u>/1</u> \	FOR CONSTRUCTION	AMN	10/25/21
$\overline{\wedge}$			
$\overline{\wedge}$			

ATC SITE NUMBER: 302495

ATC SITE NAME: TOLLAND CT

T-MOBILE SITE NAME:

CT11725A

SITE ADDRESS: 1 EAGLE HILL TOLLAND. CT 06084

SEAL:



C.T. JPC. 0000131

# T·Mobile

DATE DRAWN: 08/19/21
ATC JOB NO: 13709719\_G3
CUSTOMER ID: CT11725A
CUSTOMER #: CT11725A

**GENERAL NOTES** 

SHEET NUMBER:

G-002

### SITE PLAN NOTES:

TRN

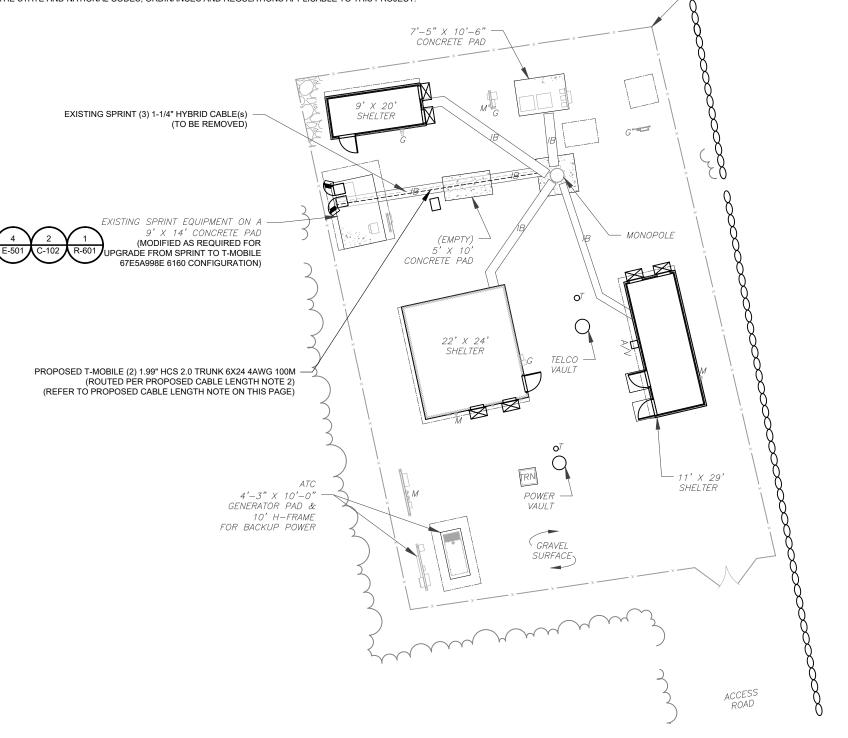
- 1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- 2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
- 3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.

### LEGEND

⊗ GROUNDING TEST WELL AUTOMATIC TRANSFER SWITCH ATS **BOLLARD** CSC CELL SITE CABINET D DISCONNECT ELECTRICAL **FIBER** GEN **GENERATOR** GENERATOR RECEPTACLE HH, V HAND HOLE, VAULT ΙB ICE BRIDGE KENTROX BOX LC LIGHTING CONTROL М METER PB PULL BOX PΡ POWER POLE TELCO

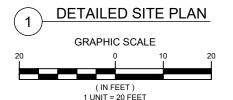
TRANSFORMER

CHAINLINK FENCE



### PROPOSED CABLE LENGTH:

- ESTIMATED LENGTH OF PROPOSED CABLE IS <u>205'</u>. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
- 2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.





CHAIN LINK FENCE W/

3-STRAND BARBED WIRE





www.colliersengineering.com
Doing Business as MASER

MADISON 135 New Poad

Madison, CT 06443 Phone: 860.395.0055 COLLIERS ENGINEERING & DESIGN CT, P.C. DOING BUSINESS AS MASER CONSULTING

Copyright © 2021. Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were ontracted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed

REV.	DESCRIPTION	BY	DATE
$\mathbb{A}_{-}$	PRELIM	JLK	08/19/21
<u> </u>	FOR CONSTRUCTION	AMN	09/20/21
1	FOR CONSTRUCTION	AMN	10/25/21
$\overline{\wedge}$			
$\triangle$			

ATC SITE NUMBER: 302495

ATC SITE NAME: TOLLAND CT

T-MOBILE SITE NAME: CT11725A

SITE ADDRESS: 1 EAGLE HILL

TOLLAND, CT 06084

SEAL



C.T. JPC. 0000131

# T·Mobile

	DATE DRAWN:	08/19/21			
	ATC JOB NO:	13709719_G3			
	CUSTOMER ID:	CT11725A			
	CUSTOMER #:	CT11725A			

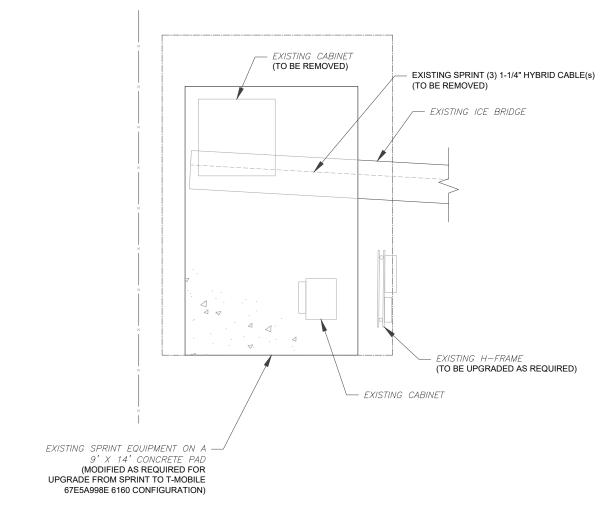
DETAILED SITE PLAN

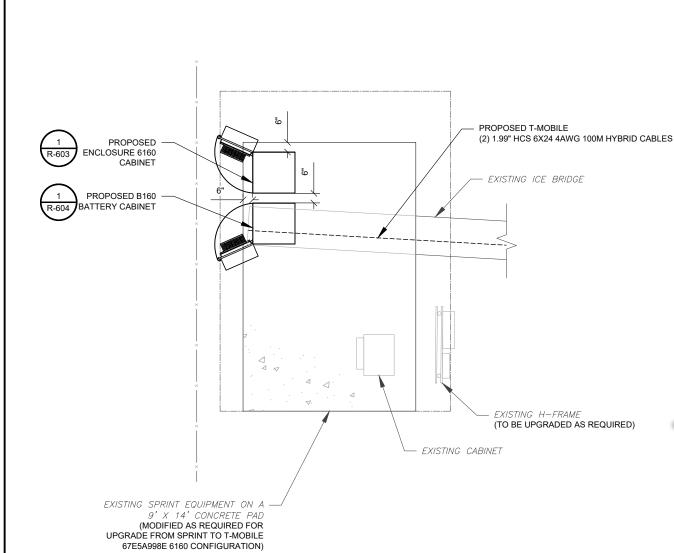
SHEET NUMBER:

C-101

### SITE PLAN NOTES:

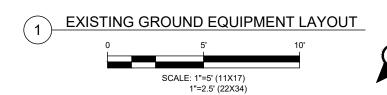
- CONTRACTOR TO VERIFY THERE IS NO LIVE AAV FIBER RUNNING THROUGH EXISTING DEAD EQUIPMENT. IF SO, THIS WILL NEED TO BE RERUN THROUGH CONDUIT PRIOR TO REMOVING DEAD 2G (6201 CABS) EQUIPMENT.
- 2. REMOVE EXISTING 2G CABINETS, AND POWER / TELCO WHIPS ASSOCIATED WITH THE DEAD EQUIPMENT IF APPLICABLE.
- 3. ALL OPEN PORTS NEED TO BE SEALED / WEATHERPROOFED PROPERLY
- ALL UNNEEDED / EXCESS EQUIPMENT AND GARBAGE TO BE REMOVED FROM EQUIPMENT AREA. DISPOSE OF MATERIALS PROPERLY OFF SITE.

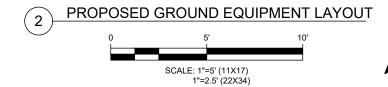




T-MOBILE CM APPROVAL REQUIRED

BEFORE INSTALLING CABINETS











www.colliersengineering.com
Doing Business as MASER

MADISON

Madison, CT 06443
Phone: 860.395.0055
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

Copyright © 2021. Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or

REV.	DESCRIPTION	BY	DATE	
⚠_		JLK	08/19/21	
<u></u>	FOR CONSTRUCTION	AMN	09/20/21	
<u>/1</u> \	FOR CONSTRUCTION	AMN	10/25/21	
$\overline{\wedge}$				
$\overline{\wedge}$				

ATC SITE NUMBER: 302495

ATC SITE NAME: TOLLAND CT

T-MOBILE SITE NAME: CT11725A

SITE ADDRESS: 1 EAGLE HILL TOLLAND, CT 06084

SEAL:



C.T. JPC. 0000131

# T·Mobile

DATE DRAWN:	08/19/21
ATC JOB NO:	13709719_G3
CUSTOMER ID:	CT11725A
CUSTOMER #:	CT11725A

### DETAILED GROUND PLAN

SHEET NUMBER:

C-102

TOP OF EXISTING TOWER @ 169.1' AGL EXISTING CARRIER ANTENNAS
RAD CENTER @ 164.1' EXISTING CARRIER ANTENNAS RAD CENTER @ 149.6' EXISTING CARRIER ANTENNAS
RAD CENTER @ 142.2' PROPOSED T-MOBILE EQUIPMENT RAD CENTER @ 132' AGL EXISTING AND ROPOSED T-MOBILE **EQUIPMENT** EXISTING CARRIER ANTENNAS RAD CENTER @ 121.3' EXISTING NEXTEL ANTENNAS TO BE REMOVED EXISTING CARRIER ANTENNAS
RAD CENTER @ 107.6' - EXISTING MONOPOLE

PER MOUNT ANALYSIS COMPLETED BY POWER OF DESIGN, DATED 10/20/21, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.

- TOWER NOTE:

  1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
- 2. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
- 4. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)





www.colliersengineering.com Doing Business as MASER

MADISON

Madison, CT 06443 Phone: 860.395.0055 COLLIERS ENGINEERING & DESIGN CT, P.C. DOING BUSINESS AS MASER CONSULTING

RE	V. DESCRIPTION	BY	DATE
Â	\PRELIM	JLK	03/30/20
<i>6</i>	FOR CONSTRUCTION	AMN	09/20/21
<u>/</u> 1	FOR CONSTRUCTION	AMN	10/25/21
$\overline{}$	\		
$\overline{\Delta}$	\		

ATC SITE NUMBER: 302495

ATC SITE NAME: **TOLLAND CT** 

T-MOBILE SITE NAME:

CT11725A

SITE ADDRESS: 1 EAGLE HILL TOLLAND, CT 06084



C.T. JPC. 0000131

# T··Mobile

DATE DRAWN:	08/19/21
ATC JOB NO:	13709719_G3
CUSTOMER ID:	CT11725A
CUSTOMER #:	CT11725A

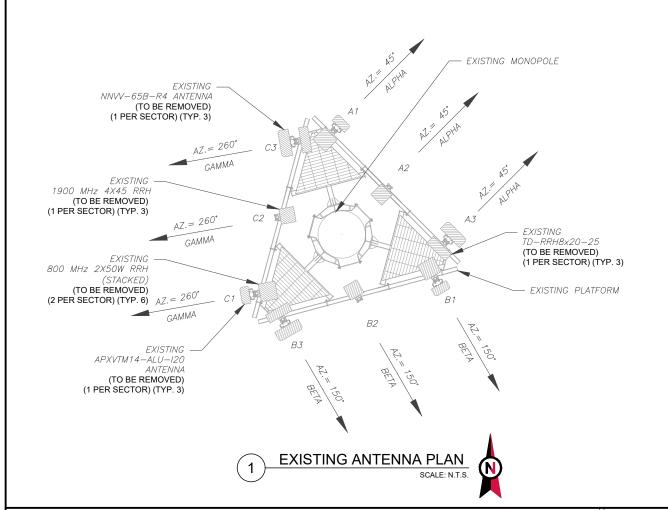
**TOWER ELEVATION** 

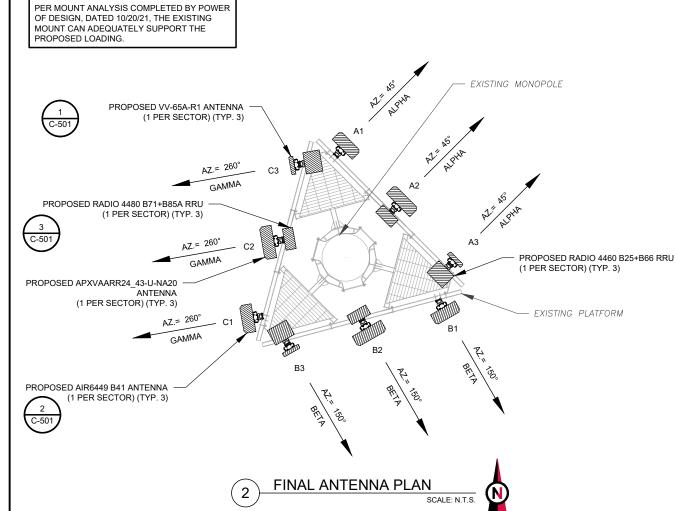
SHEET NUMBER:

REVISION:

C-201

**TOWER ELEVATION** SCALE: N.T.S.





	EXISTING ANTENNA SCHEDULE									
LOC	CATION		ANTENNA SUMMARY NON ANTENNA SUMMAR							
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	
			A1	APXVTM14-ALU-I20	_	_	RMV	(2) 800 MHz 2X50W RRH	RMV	
ALPHA	132'	45°	A2	ı	_	_	_	1900 MHz 4X45 RRH	RMV	
			A3	NNVV-65B-R4	_	_	RMV	TD-RRH8x20-25	RMV	
			B1	APXVTM14-ALU-I20	_	-	RMV	(2) 800 MHz 2X50W RRH	RMV	
BETA	132'	150°	B2	-	-	-	_	1900 MHz 4X45 RRH	RMV	
			<i>B3</i>	NNVV-65B-R4	_	-	RMV	TD-RRH8x20-25	RMV	
			C1	APXVTM14-ALU-I20	_	_	RMV	(2) 800 MHz 2X50W RRH	RMV	
GAMMA	132'	260°	C2	_	_	_	_	1900 MHz 4X45 RRH	RMV	
			C3	NNVV-65B-R4	_	-	RMV	TD-RRH8x20-25	RMV	

NOTES		FINAL ANTENNA SCHEDULE								
1. CONFIRM WITH T-MOBILE REP	LO	CATION			ANT		NON ANTENNA SUMMARY			
FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN	SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
CONFIGURATION (CONFIG). GC				A1	AIR6449 B41	L2500/N2500	0/0	ADD	-	-
TO CAP ALL UNUSED PORTS.  2. CONFIRM SPACING OF	ALPHA	132	45°	A2	APXVAARR24_43-U-NA20	L700/L600/N600	0/0	ADD	RADIO 4480 B71+B85A	ADD
PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.				А3	VV-65A-R1	L2100/L1900/G1900	0/0	ADD	RADIO 4460 B25+B66	ADD
			150° .	B1	AIR6449 B41	L2500/N2500	0/0	ADD	=	-
1 200.	ВЕТА	132'		B2	APXVAARR24_43-U-NA20	L700/L600/N600	0/0	ADD	RADIO 4480 B71+B85A	ADD
STATUS ABBREVIATIONS				В3	VV-65A-R1	L2100/L1900/G1900	0/0	ADD	RADIO 4460 B25+B66	ADD
RMV: TO BE REMOVED  RMN: TO REMAIN  REL: TO BE RELOCATED  ADD: TO BE ADDED				C1	AIR6449 B41	L2500/N2500	0/0	ADD	=	-
	GAMMA	132'	260°	C2	APXVAARR24_43-U-NA20	L700/L600/N600	0/0	ADD	RADIO 4480 B71+B85A	ADD
	<i>5.</i>			СЗ	VV-65A-R1	L2100/L1900/G1900	0/0	ADD	RADIO 4460 B25+B66	ADD

CABLE LENGTHS FOR JUMPERS

JUNCTION BOX TO RRU: 15'

RRU TO ANTENNA: 10'

EXISTING FIBER DISTRIBUTION/O	/P BOX	EXISTI	NG CABLING SUMMARY	
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
-	-	_	(3) 1-1/4"	RMV

$\bigcirc$	<b>EQUIPMENT SCHEDULES</b>
$(\mathfrak{s}_{\mathcal{F}})$	

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS	
-	-	-	(2) 1.99" 6/24 4AWG 100M	ADD	



Engineering & Design

www.colliersengineering.com

Doing Business as 
MADISON

135 New Road

Madison, CT 06443
Phone: 860.395.0055

COLLERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

Capyright 2021. Collers Engineering Height Reserved. The drawing and all the

REV.	DESCRIPTION	BY	DATE
$\mathbb{A}_{-}$	PRELIM	JLK	08/19/21
$\triangle_{-}$	FOR CONSTRUCTION	AMN	09/20/21
<u> </u>	FOR CONSTRUCTION	AMN	10/25/21
$\overline{\wedge}$			
$\overline{\wedge}$			

ATC SITE NUMBER: 302495

ATC SITE NAME: TOLLAND CT

T-MOBILE SITE NAME: CT11725A

SITE ADDRESS: 1 EAGLE HILL TOLLAND, CT 06084

SEAL:



C.T. JPC. 0000131

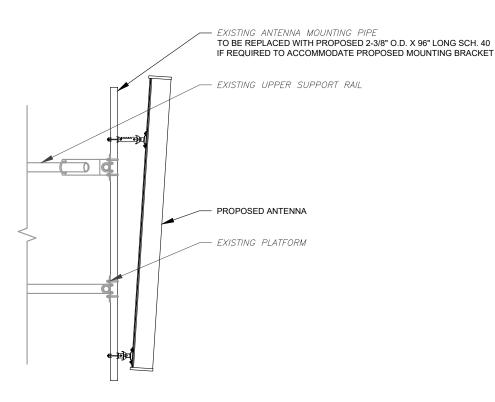
# T··Mobile

DATE DRAWN:	08/19/21
ATC JOB NO:	13709719_G3
CUSTOMER ID:	CT11725A
CUSTOMER #:	CT11725A

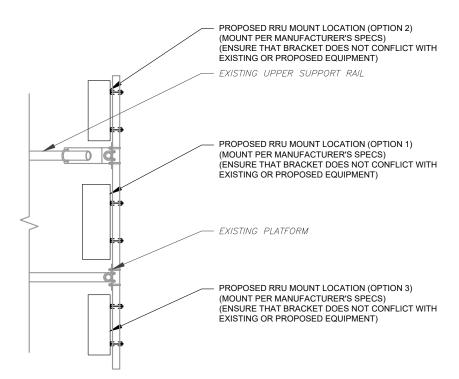
# ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:

C-401

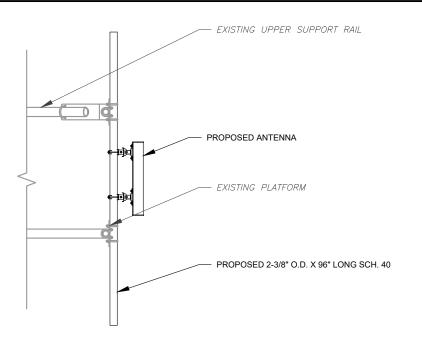


### 1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL SCALE: N.T.S



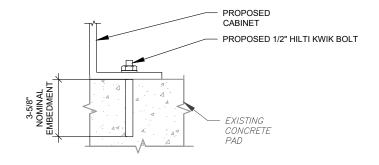
PROPOSED RRU MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.



PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.

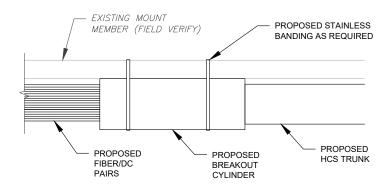


NOTE

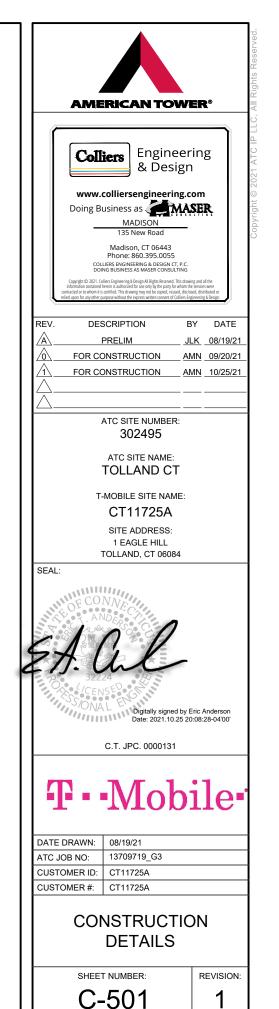
INSTALL HILTI KWIK BOLT ANCHORS STRICTLY PER INSTALLATION INSTRUCTIONS INCLUDED WITH PRODUCT OR FOUND ONLINE AT WWW.US.HILTI.COM. PROPER INSTALLATION IS CRITICAL FOR FULL PERFORMANCE.

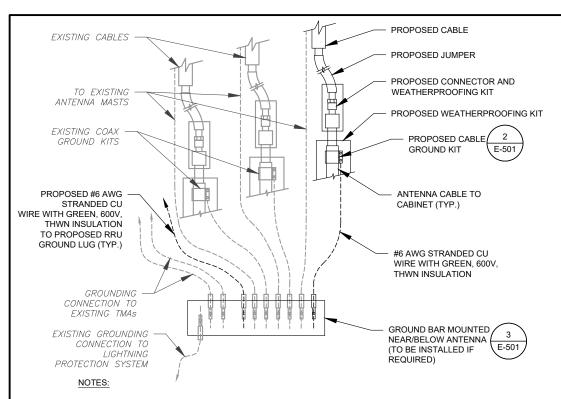
4 CABINET ATTACHMENT DETAIL

SCALE: NOT TO SCALE



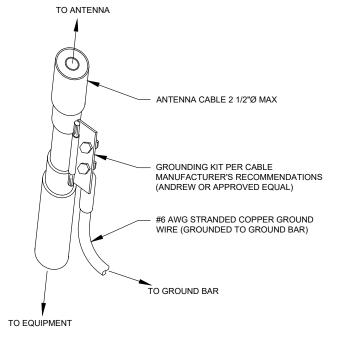
PROPOSED BREAKOUT CYLINDER ATTACHMENT
SCALE: N.T.S.





- 1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
- SITE GROUNDING SHALL COMPLY WITH T-MOBILE GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH T-MOBILE GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.





- GROUND KIT NOTES:

  1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- 2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

CABLE GROUND KIT CONNECTION DETAIL

#### **GROUND BAR NOTES**

3/8" X 1-1/2" SS BOLT

(EACH SIDE)

GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).

3/8" SS LOCK WASHER

1/4" X 4" X 6" GROUND BAR

WITH #2 AWG BCW

BAR ONLY)

TWO-HOLE LUG, TO BE USED

(LOWER TOWER GROUND

(ERICO P/N: EGBA14406CC OR EQUAL)

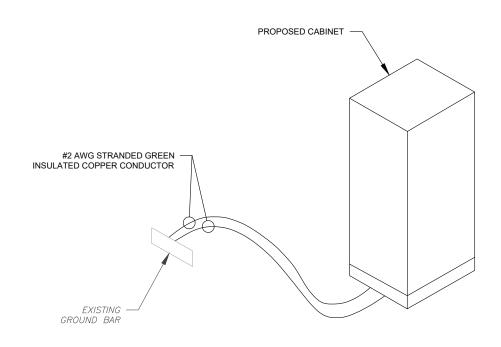
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.



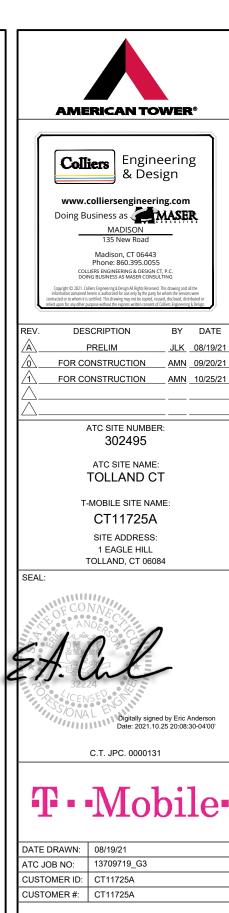
### **ELECTRICAL NOTES:**

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT
- ATC HAS NOT VERIFIED ANY EXISTING T-MOBILE GROUND EQUIPMENT OR ELECTRICAL LOADING. PROPOSED WORK BASED ON INSTALLATION CONFIGURATION PROVIDED BY T-MOBILE. CONTRACTOR TO VERIFY EXISTING T-MOBILE PANEL HAS SUFFICIENT SPACE FOR PROPOSED BREAKER. PROPOSED CABLE AND CONDUIT SHALL BE MINIMUM SIZE PER BELOW IN CHART.
- FOR SPECIFIC CABINET / ANCILLARY EQUIPMENT WIRING REQUIREMENTS, THE T-MOBILE CONTRACTOR SHOULD REFERENCE DESIGN DOCUMENTS PROVIDED BY T-MOBILE FOR THIS CURRENT PROJECT CONFIGURATION, IN ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS & NEC STANDARDS &

OCPD SIZE	WIRE SIZE	GROUND SIZE	CONDUIT SIZE
80A/2P	2#3 AWG	#8 AWG	1-1/4"
100/2P	2#2 AWG	#8 AWG	1-1/4"
125A/2P	2#1 AWG	#8 AWG	1-1/2"
150A/2P	2#1/0 AWG	#8 AWG	1-1/2"



CABINET GROUNDING DETAIL



**GROUNDING DETAILS** 

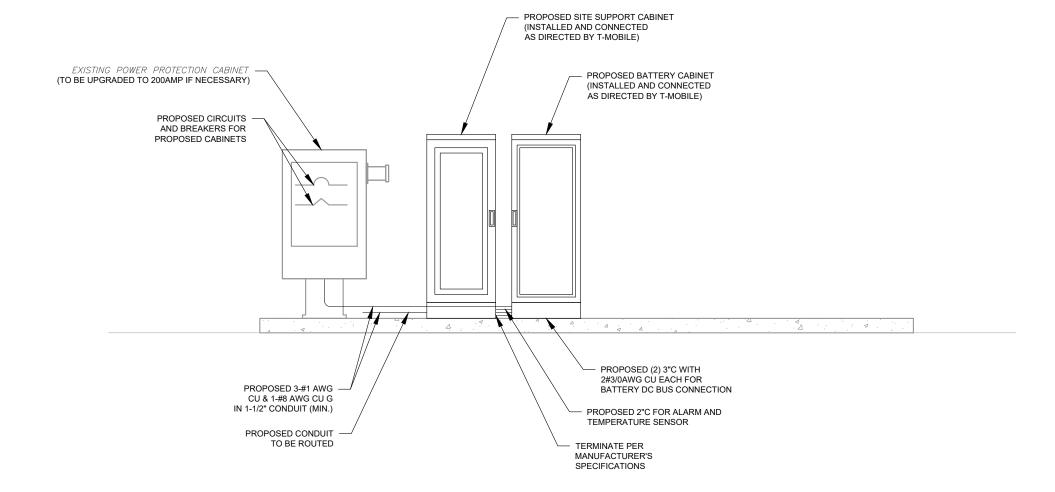
REVISION

SHEET NUMBER:

E-501

#### NOTES:

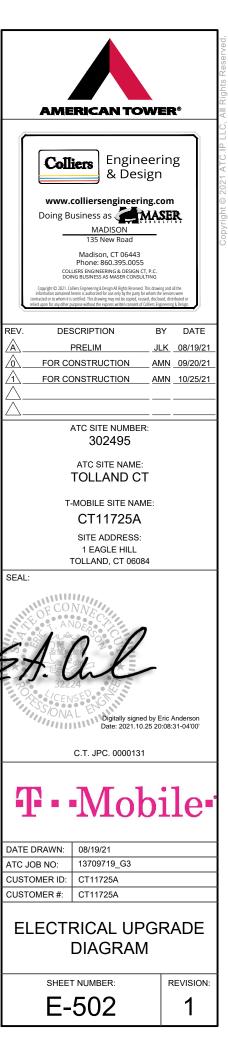
- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTSOF THE 2017 EDITION OF NATIONAL ELECTRICAL CODE (NEC), NATIONAL ELECTRICAL SAFETY CODE, NAPA, NETA, OSHA, AND ALL OTHER EXISTING CODES AND REGULATIONS OF AUTHORITIES WHICH WOULD HAVE JURISDICTION.
- 2. ALL NEW WIRING SHALL BE WITH THWN-2 OR XHHW-2 INSULATION AND RATED FOR 75 DEG CELSIUS.
- 8. ALL UNDERGROUND CONDUIT SHALL BE PVC SCH40.
  ALL ABOVE GROUND CONDUIT SHALL BE PVC SCH80



#### ELECTRICAL NOTES:

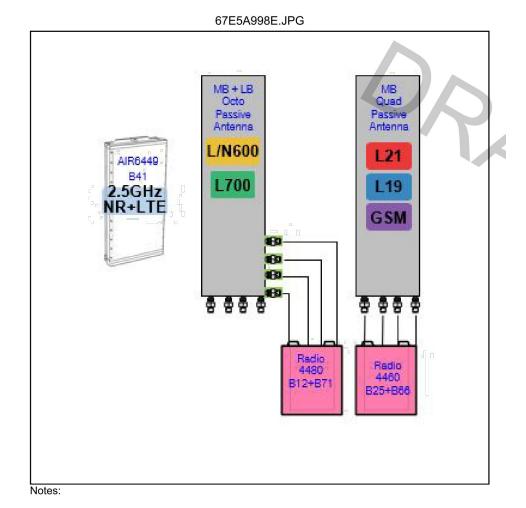
- THIS DIAGRAM REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- 2. IT IS THE RESPONSIBILITY OF THE
  CONTRACTOR TO COORDINATE WITH THE
  T-MOBILE REPRESENTATIVE AND LOCAL
  UTILITY COMPANY FOR THE INSTALLATION OF
  CONDUITS, CONDUCTORS, BREAKERS,
  DISCONNECTS, OR ANY OTHER EQUIPMENT
  REQUIRED FOR ELECTRICAL SERVICE. ALL
  ELECTRICAL WORK SHALL BE PERFORMED IN
  ACCORDANCE WITH LATEST EDITION OF THE
  STATE AND NATIONAL CODES, ORDINANCES
  AND REGULATIONS APPLICABLE TO THIS
  PROJECT.
- 3. ATC HAS NOT YET VERIFIED ANY EXISTING T-MOBILE GROUND EQUIPMENT OR ELECTRICAL LOADING. PROPOSED WORK BASED ON INSTALLATION CONFIGURATION PROVIDED BY T-MOBILE. CONTRACTOR TO VERIFY EXISTING T-MOBILE PANEL HAS SUFFICIENT SPACE FOR PROPOSED BREAKER.





	Proposed RAN Equipment Template: 67E5A998E 6160							
Enclosure	1	2	3					
Enclosure Type	Enclosure 6160	RBS 6601	B160					
Baseband	BB 6648	DUG20 (G1900)						
Hybrid Cable System	Ericsson Hybrid Trunk 6/24 4AWG 100m (x 2)							
Transport System	CSR IXRe V2 (Gen2)							
RAN Scope of Work	:							





2 ANTENNA CONFIGURATION SCALE: NOT TO SCALE

SUPPLEMENTAL

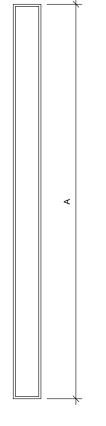
SHEET NUMBER:

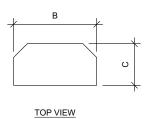
:O1

REVISION:

R-601

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

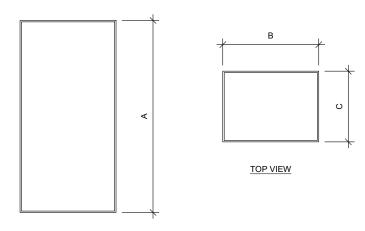




FRONT VIEW

### 1 ANTENNA SPECIFICATIONS FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

ANTENNA SPECIFICATIONS					
ANTENNA MODEL	A	В	С	WEIGHT (LBS)	
AIR6449 B41	33.1"	20.6"	8.6"	104.0	
VV-65A-R1	54.7"	12.1"	4.6"	23.8	
APXVAARR24_43-U-NA20	95.9"	24.0"	8.7"	128.0	



FRONT VIEW

# RRU SPECIFICATIONS FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

RRU SPECIFICATIONS						
RRU MODEL	А	В	С	WEIGHT (LBS)		
RADIO 4460 B25+B66	19.6"	15.7"	12.1"	109.0		
RADIO 4480 B71+B85A	21.8"	15.7"	7.5"	84.0		

SUPPLEMENTAL

SHEET NUMBER:

REVISION:

R-602



# Enclosure 6160 AC

The Enclosure 6160 is a multi-purpose site cabinet designed to support a multitude of equipment such as ERS Baseband, Transport, Li-Ion battery and 3PP vendor equipment. It also provides a highly capable power system and battery back-up - all in a streamlined design and minimized footprint to support cost efficient expansion of mobile broadband.

Being an all-in-one enclosure, the Enclosure 6160 is a very fitting choice for all types of sites where the capacity need is large or room for future expansion is needed. It is ideally used for modernizing existing sites or in greenfield scenarios to match both current and future needs.

With a robust design, IP65 compliance and a sealed Heat Exchanger (HEX) climate system the Enclosure 6160 ensures optimal environmental protection of the active equipment - enabling them for a long-lasting service. The complete system is also integrated and verified for the entire Ericsson Radio System and ensures best-in-class service.

The power system offers 31,5kW of power in total and provides 24kW of -48V DC power for both internal and external consumers.

The equipment space allows 19U of rack space ensuring well enough capacity for existing need and future expansion.

One of the main advantages of the Enclosure 6160 is its default integration with ENM - allowing for advanced remote monitoring and control such a fault management (alarms), inventory management and performance measurements. The cabinet also provides an open O&M interface for integration to 3PP O&M systems.



CAPACITY	
Rack space user equipment	19U (19" rack)
Hardware capabilities	Power and CPRI support for multi-standard remote radios (RRU or AIR)
	ERS Baseband and Transport units
	Li-lon batteries
	3PP equipment
	Additional power feed available as option
MECHANICAL SPECIFICATION	
Weight	145 kg (excluding active equipment) 320 lbs (excluding active equipment)
Dimension (H x W x D)	1600 x 650 x 650 mm (incl. Base frame) 63 x 26 x 26 in. (incl. Base frame)
Base frame height	150 mm 6 in.
Mounting position	Ground
Enclosure material	Aluminum
Color	Power paint NCS 2002-B
Door	Front access
Rack type	19" (IEC 60297-3-100)
Locking type	Pad lock or Cylinder
POWER SYSTEM	·
Input voltage	3P+N+PE: 346/200-415/240 VAC 2P+N+PE: 208/120-220/127 VAC 1P+N+PE: 200-250 VAC
Input power	<33kW
Output load (-48VDC)	24kW
Total capacity (-48VDC)	31.5kW
AC SPD	Class 2/Type 2
DC SPD	Class 2/Type 2
PSU Slots	9x
Service outlet	Optional
Priority load	8x Circuit Breaker
LLVD 1	6x Circuit Breaker
LLVD 2	6x Circuit Breaker
CB ratings	3A / 5A / 10A / 15A / 20A / 25A / 30A / 40A / 50A / 60A / 80A / 100A
Battery Interface	2x Circuit Breaker
Battery Circuit Breaker rating	125A 2pol (200A)
PSU capacity	3500W
, ,	

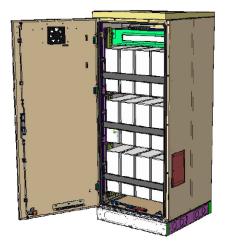
SUPPLEMENTAL

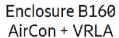
SHEET NUMBER

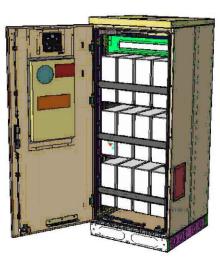
REVISION:

R-603

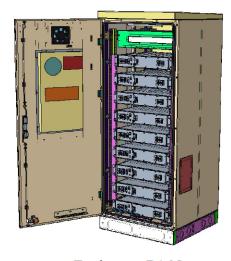
### Enclosure B160







Enclosure B160 AirCon + Li-Ion



Enclosure B160 **Convection Cooling** + VRLA

3

PA1 | 2019-02-03 | Ericsson Confidential | Page 1

### Enclosure B160

Capacity

— VRLA 12V: 100Ah / 150Ah / 170Ah / 190Ah / 210Ah

— Li-Ion: 24U 19" / 23" — Sodium-Nickel: 3x FIAMM

Electrical specification

-48VDC/200A — DC Output: Battery breakers: 2x 125/2p

Door open, Climate failure, MCB Connection — Alarms:

Mechanical specification

— Weight: 134kg

63 x 26 x 26 in. (incl. Base frame) Dimensions:

Base frame height: 6 in.

Material: Galvanized steel (180g/m²) Powder paint NCS 2002-B Color:

Front access Door: Locking type: Pad lock / cylinder Environmental specification

VRLA/Sodium IP44 Ingress protection: Li-Ion IP55

15-100% Relative humidity:

Climate system

Air Conditioner

— Fan type:

 Cooling capacity: 500W @L35/L35

Convection cooling

Emergency fan

PA1 | 2019-02-03 | Ericsson Confidential | Page 2

**SUPPLEMENTAL** 

SHEET NUMBER:

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED

R-604



This report was prepared for American Tower Corporation by



### **Antenna Mount Analysis Report**

**ATC Site Name** : Tolland CT

: 302495 **ATC Site Number** 

Engineering Number : 13709719\_C8\_06

: 131 ft **Mount Elevation** 

: SPRINT NEXTEL Carrier

**Carrier Site Name** : CT11725A **Carrier Site Number** : CT11725A

**Site Location** : 56 Ruops Road

Tolland, CT 06084

41.87334038, -72.33830201

POD GROUP - 1033 E. Turkeyfoot Lake Road, Suite 206 - Akron, OH 44312 - 330-961-7432 - www.podgrp.com

: Tolland County

Date : October 20, 2021

Max Usage : 55%

Result : Pass

Prepared By: Cait Campbell

**Jason Cheronis** 

Vice President of Structural Engineering

Eng. Number 13709719\_C8\_06 October 20, 2021 Page 2

#### **Antenna Loading**

Mount Centerline (ft)	Antenna Centerline (ft)	Qty	Antenna Model	
	0 132.0	3	Ericsson Air6449 B41	
		132.0	3	RFS APXVAARR24_43-U-NA20
131.0			3	Commscope VV-65A-R1
		3	Ericsson Radio 4480 B71+B85A	
		3	Ericsson Radio 4460 B25+B66	
50.0	50.0	1	Generic 2" x 4" GPS	

### **Structure Usages**

Structural Component	Controlling	Pass/Fail	
·	Usage		
Support Rails	55%	Pass	
Diagonals	49%	Pass	
Mount Pipes	48%	Pass	
Horizontals	43%	Pass	
Faces	36%	Pass	
Verticals	27%	Pass	

POD GROUP - 1033 E. Turkeyfoot Lake Road, Suite 206 - Akron, OH 44312 - 330-961-7432 - www.podgrp.com

MOUNT ANALYSIS

Digitally signed

Cheronis 09:38:18 -04'00'

by Jason Cheronis Date: 2021.10.20

Jason

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONSTRUCTION.

**SUPPLEMENTAL**