



Northeast Site Solutions  
Victoria Masse  
420 Main Street #2, Sturbridge, MA 01566  
860-306-2326  
victoria@northeastsitesolutions.com

February 23, 2023

Members of the Siting Council  
Connecticut Siting Council  
Ten Franklin Square  
New Britain, CT 06051

RE: Notice of Exempt Modification  
47 Turnpike Road, Willington CT 06279  
Latitude: 41.92553767  
Longitude: -72.25236900  
T-Mobile Site#: CT11527B\_L600

Dear Ms. Bachman:

T-Mobile currently has six (6) antennas at the 159-foot mount on the existing 170-foot monopole located at 47 Turnpike Road, Willington CT 06279. The property is owned by Kelley M Barber. The tower is owned by Cordless Data Transfer Inc. T-Mobile now intends to remove six (6) existing antenna and replace with three (3) new 600/700/1900/2100 MHz antenna. The new antennas would be installed at the 159-foot level of the monopole. This modification includes B2, B5 hardware that is both 4G (LTE), and 5G capable.

T-Mobile Planned Modifications:

Remove:

(3) EMS-RR90-17-02DP Antenna

Remove and Replace:

(3) LNX-6515DS-A1M Antenna (Remove) – (3) FS APXVAALL24\_43-U-NA20 600/700/1900MHz Antenna (Replace)

(1) Platform (Remove) – (1) SitePro 1 Platform (Replace)

Install New:

(3) RRU 4480 B71+ B85

(1) Hybrid Line

Existing to Remain:

(12) Coax Line

(3) TMA



This facility was approved by the Connecticut Siting Council in Docket No. 267 on February 3, 2004. Please see attached.

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.S.C.A. § 16-50j-73, a copy of this letter is being sent to The Honorable Erika G. Wiczenski, First Selectman for the Town of Willington, Michael D'Amato, Zoning Agent, Kelley M Barber the property owner and Cordless Data Transfer the tower owner.

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications 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 referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

*Victoria Masse*

Victoria Masse  
Mobile: 860-306-2326  
Fax: 413-521-0558  
Office: 420 Main Street, Unit 2, Sturbridge MA 01566  
Email: victoria@northeastitesolutions.com



**NSS** **NORTHEAST**  
SITE SOLUTIONS  
*Turnkey Wireless Development*

Attachments:

cc: The Honorable Erika G. Wiczenski, First Selectman  
Town Office Building  
40 Old Farms Road  
Willington, CT 06279

Michael D'Amato, Zoning Agent  
Town Office Building  
40 Old Farms Road  
Willington, CT 06279

Kelley M Barber – property owner  
29 Cassidy Hill Rd,  
Coventry, CT 06238

Cordless Data Transfer – tower owner  
600 Old Hartford Rd  
Colchester, CT 064152417

# Exhibit A

## **Original Facility Approval**

# Connecticut Siting Council<sup>(/CSC)</sup>

[CT.gov Home](#) [\(/\)](#) [Connecticut Siting Council](#) [\(/CSC\)](#) Docket 267 Decision and Order

[Decisions \(/CSC/Decisions/Decisions\)](#) >

[Meetings and Minutes \(/CSC/Common-Elements/v4-template/Council-Activity\)](#) >

[Pending Matters \(/CSC/1\\_Applications-and-Other-Pending-Matters/Pending-Matters\)](#) >

[About Us \(/CSC/Common-Elements/Common-Elements/Connecticut-Siting-Council---Description\)](#) >

[Contact Us \(/CSC/Common-Elements/Common-Elements/Contact-Us\)](#) >

**Search Connecticut Siting Council**



**DOCKET NO. 267** - Cordless Data Transfer, Inc. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a wireless telecommunications facility at one of two sites at Turnpike Road, Map 45-Lot 4, Willington, Connecticut.

} Connecticut

} Siting

} Council

February 3, 2004

## Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Cordless Data Transfer, Inc. for the construction, maintenance and operation of a wireless telecommunications facility at the prime site on Turnpike Road, Map 45-Lot 4, Willington, Connecticut. The Council denies certification of the alternate site.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of AT&T Wireless PCS LLC and other entities, both public and private, but such tower shall not exceed a total height of 170 feet above ground level.

2. The tower enclosure shall be moved approximately 25 feet to the southeast. Development of the site shall not disturb the intermittent watercourse (wetland drain) adjacent to the site.

3. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be submitted to and approved by the Council prior to the commencement of facility construction and shall include:

a) a detailed site development plan that depicts the location of the access road, compound, tower, utility line, erosion and sedimentation control features, extent of site clearing and grading, and landscaping. Erosion and sedimentation controls shall be consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended; and

b) specifications for the tower, tower foundation, antennas, equipment building, and security fence.

4. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case

modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of electromagnetic radio frequency power density is submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

5. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.

6. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing. The Certificate Holder shall provide reasonable space on the tower for no compensation for any municipal antennas, provided tower space is available and such antennas are compatible with the structural integrity of the tower.

7. If the facility does not initially provide wireless services within one year of completion of construction or ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.

8. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antennas become obsolete and cease to function.

9. Unless otherwise approved by the Council, this Decision and Order shall be void if the facility authorized herein is not operational within one year of the effective date of this Decision and Order or within one year after all appeals to this Decision and Order have been resolved.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in The Hartford Courant and The Chronicle.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

The parties and intervenors to this proceeding are:

**Applicant**

Cordless Data Transfer, Inc.

**Its Representative**

Charles Andres, Esq.

Tyler Cooper & Alcorn, LLP

205 Church Street

P.O. Box 1936

New Haven, Connecticut 06509-1910

Robert J. Francis, President

Cordless Data Transfer, Inc.

P.O. Box 363

17 Ridgewood Drive

Marlborough, Connecticut 06447

**Intervenor**

AT&T Wireless PCS, LLC

d/b/a AT&T Wireless

**Its Representative**

Christopher B. Fisher, Esq.

Cuddy & Feder LLP

90 Maple Avenue

White Plains, New York 10601



# Exhibit B

## Property Card

# 47 TURNPIKE RD

**Location** 47 TURNPIKE RD

**Mblu** 45 / / 004-0A / /

**Acct#** 00007401

**Owner** BARBER KELLEY M

**Assessment** \$39,010

**Appraisal** \$55,730

**PID** 6225

**Building Count** 1

## Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2018	\$0	\$55,730	\$55,730

Assessment			
Valuation Year	Improvements	Land	Total
2018	\$0	\$39,010	\$39,010

## Owner of Record

**Owner** BARBER KELLEY M  
**Co-Owner** MURRAY BRIAN P  
**Address** 29 CASSIDY HILL RD  
COVENTRY, CT 06238

**Sale Price** \$0  
**Certificate**  
**Book & Page** 225/967  
**Sale Date** 02/18/2021

## Building Information

### Building 1 : Section 1

**Year Built:**  
**Living Area:** 0  
**Replacement Cost:** \$0  
**Building Percent Good:**  
**Replacement Cost**  
**Less Depreciation:** \$0

Building Attributes	
Field	Description
Style	Vacant Land
Model	
Grade:	
Stories:	
Occupancy	

Exterior Wall 1	
Exterior Wall 2	
Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Total Bthrms:	
Total Half Baths:	
Total Xtra Fixtrs:	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Fireplaces	
Bsmt Garage	

### Building Photo



(<http://images.vgsi.com/photos/WillingtonCTPhotos//default.jpg>)

### Building Layout

(ParcelSketch.ashx?pid=62225&bid=20274)

Building Sub-Areas (sq ft)	Legend
No Data for Building Sub-Areas	

### Extra Features

Extra Features	Legend
No Data for Extra Features	

### Land

#### Land Use

<b>Use Code</b>	1300
<b>Description</b>	Vacant Land
<b>Zone</b>	
<b>Neighborhood</b>	302
<b>Alt Land Appr Category</b>	No

#### Land Line Valuation

<b>Size (Acres)</b>	11.61
<b>Frontage</b>	
<b>Depth</b>	
<b>Assessed Value</b>	\$39,010
<b>Appraised Value</b>	\$55,730

### Outbuildings

Outbuildings	Legend
No Data for Outbuildings	

### Valuation History

No Data for Valuation History	
-------------------------------	--

<b>Appraisal</b>			
<b>Valuation Year</b>	<b>Improvements</b>	<b>Land</b>	<b>Total</b>
2019	\$0	\$55,730	\$55,730

<b>Assessment</b>			
<b>Valuation Year</b>	<b>Improvements</b>	<b>Land</b>	<b>Total</b>
2019	\$0	\$1,950	\$1,950

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47 Turnpike Rd, Willington, CT



Showcase Service Center

47 Turnpike Rd,  
Willington, CT 06279

Google



# Exhibit C

## **Construction Drawings**

MODIFICATION OF EXISTING WIRELESS FACILITY BY



T-MOBILE NORTHEAST LLC

PROJECT TITLE: L600

SITE NUMBER: CT11527B

SITE NAME: CT527 / CORDLESS WILINGTON

SITE ADDRESS:

47 TURNPIKE ROAD

WILLINGTON, CT 06279

APPLICANT:

**T-Mobile**  
T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD SOUTH  
BLOOMFIELD, CT 06002  
860-692-7100

PROJECT MANAGER

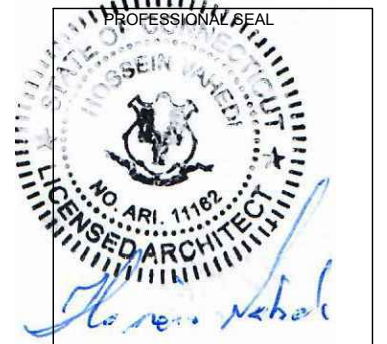


420 MAIN STREET, BLDG 4  
STURBRIDGE, MA 01566  
203-275-6669

ENGINEERING CONSULTANT:



462 WALNUT STREET, SUITE 1  
NEWTON, MA 02460  
617-212-3123



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PROJECT NOTES:

- THIS IS AN UNMANNED TELECOMMUNICATION FACILITY AND NOT FOR HUMAN HABITATION: HANDICAPPED ACCESS IS NOT REQUIRED. POTABLE WATER OR SANITARY SERVICE IS NOT REQUIRED. NO OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES REQUIRED.
- DEVELOPMENT AND USE OF THE SITE WILL CONFORM TO ALL APPLICABLE CODES, ORDINANCES AND SPECIFICATIONS.

CODE COMPLIANCE:

ALL WORK SHALL COMPLY WITH THE CURRENT NATIONAL AND CONNECTICUT STATE BUILDING AND LIFE SAFETY CODES, SUPPLEMENTS AND AMENDMENTS INCLUDING BUT NOT LIMITED TO THE LATEST EDITION OF:

- 2022 CONNECTICUT STATE BUILDING CODE (2018 IBC).
- ANSI/TIA-222-H STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.
- NATIONAL ELECTRICAL CODE (NEC) FOR POWER AND GROUNDING REQUIREMENTS.
- OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
- NFPA - NATIONAL FIRE PROTECTION ASSOCIATION.



Connecticut - Call Before You Dig

811 or  
1-800-922-4455

Advance Notice:

Minimum of 2 working days in advance, no more than 30 days in advance

CONTRACTOR'S NOTES:

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON THE JOB SITE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. FAILURE TO NOTIFY THE ARCHITECT/ENGINEER PLACES THE RESPONSIBILITY ON THE CONTRACTOR TO CORRECT THE DISCREPANCIES AT THE CONTRACTOR'S EXPENSE. REFER TO MOUNT ANALYSIS REPORT - REPLACEMENT - REV.1, DATED 1/18/23 PREPARED BY EFI GLOBAL INC.

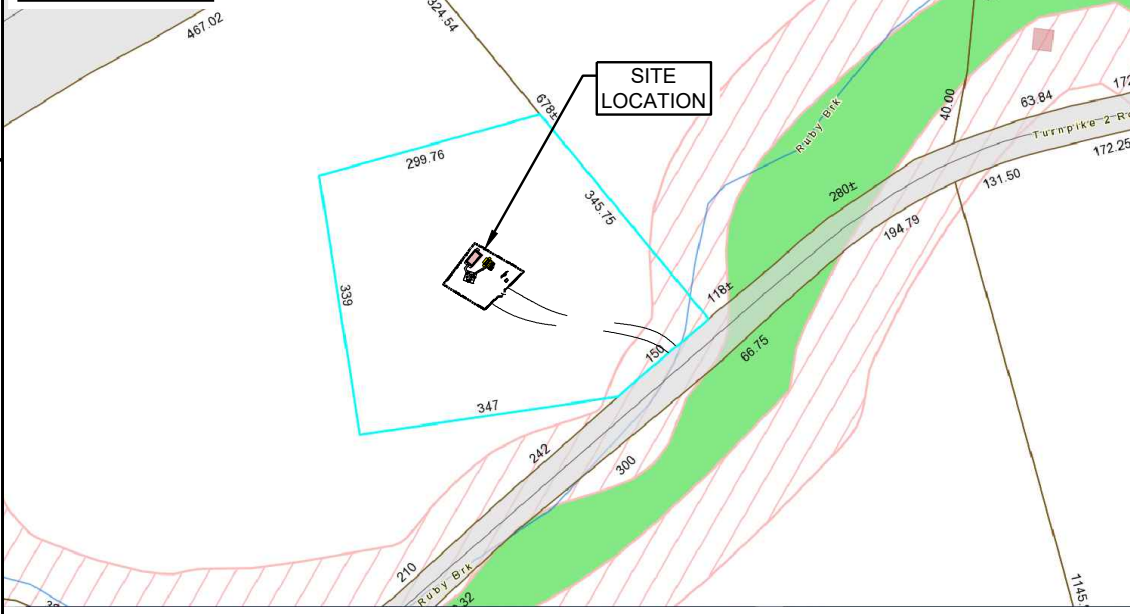
APPROVALS:

FSA CM	DATE
RF ENGINEER	DATE
FOPS	DATE
T-MOBILE ENGINEERING AND DEVELOPMENT	DATE
	DATE
	DATE

SITE IMAGE:



SITE VICINITY :



PROJECT SCOPE:

PROJECT SCOPE CONSIST OF REPLACING EXISTING ANTENNAS AND EQUIPMENT AS FOLLOWS:

SECTOR MOUNT: REPLACE EXISTING ANTENNA SECTOR MOUNT WITH A NEW PLATFORM MOUNT.

ANTENNAS: REPLACE (6) EXISTING ANTENNAS WITH (3) NEW ANTENNAS, ADD (3) NEW RADIOS BEHIND NEW ANTENNAS.

CABINETS: UPGRADE THE EXISTING 6201 ODE CABINET INTERNALLY. CABLES: EXISTING (12) 1-5/8" COAX, ADD (1) 6/24 HYBRID CABLE.

PROJECT INFORMATION:

ADDRESS: 47 TURNPIKE ROAD  
WILLINGTON, CT 06279  
PARCEL ID: 45/004-0A  
ACCOUNT#: 00007401  
LAND USE: 6100-FOREST  
ZONING DISTRICT: DI  
LAND AREA: 11.61 AC  
COORDINATES: 41° 55' 32.11" N 72° 15' 08.43" W  
GROUND ELEV: 685± (AMSL)

PROJECT TEAM:

APPLICANT: T-MOBILE NORTHEAST, LLC.  
35 GRIFFIN ROAD SOUTH  
BLOOMFIELD, CT 06002  
860-692-7100

PROPERTY OWNER: BARBER HAZEL M  
88 SLATER RD  
TOLLAND CT 06084

PROJECT MANAGER: NORTHEAST SITE SOLUTIONS  
420 MAIN STREET, BLDG 4  
STURBRIDGE, MA 01566  
MATT BANDLE  
MATT@NORTHEASTSITESOLUTIONS.COM  
201-776-8521

ENGINEERING CONSULTANTS: FORESITE LLC  
462 WALNUT ST  
NEWTON, MA 02460  
SAEED MOSSAVAT  
SMOSSAVAT@FORESITELLC.COM  
617-212-3123

SHEET INDEX:

- T-1: TITLE SHEET
- N-1: GENERAL NOTES
- N-2: CONSTRUCTION NOTES
- A-1: PLOT PLAN
- A-2: SITE PLAN
- A-3: ELEVATION AND ANTENNA PLANS
- A-4: ANTENNA SPECIFICATIONS AND MOUNTING DETAILS
- E-1: ELECTRICAL AND GROUNDING DETAILS

REV	DESCRIPTION	DATE
A	PRELIMINARY	07/14/22
0	FINAL ISSUED	07/19/22
1	REVISED PER NEW STATE CODES	01/23/23
2	REVISED PER COMMENTS	01/30/23

SITE NUMBER: CT11527B  
SITE NAME: CT527 / CORDLESS  
SITE ADDRESS: 47 TURNPIKE ROAD  
WILLINGTON, CT 06279

SHEET TITLE:  
T-1: TITLE SHEET

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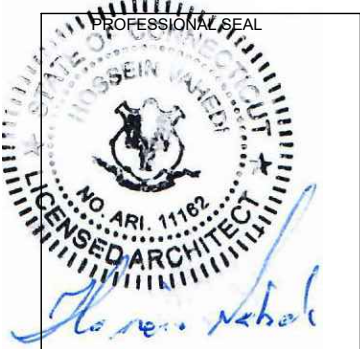
**GENERAL NOTES:**

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
2. THE ARCHITECT/ENGINEER HAS MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE CLIENT'S REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S / VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
7. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT SECTIONS OF THE BASIC STATE BUILDING CODE, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJEC
9. THE CONTRACTOR SHALL NOTIFY THE CLIENT'S REPRESENTATIVE IN WRITING WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE CLIENT'S REPRESENTATIVE.
10. THE WORK SHALL CONFORM TO THE CODES AND STANDARDS OF THE FOLLOWING AGENCIES AS FURTHER CITED HEREIN:
  - A. ASTM: AMERICAN SOCIETY FOR TESTING AND MATERIALS, AS PUBLISHED IN "COMPILATION OF ASTM STANDARDS BUILDING CODES" OR LATEST EDITION.
  - B. AWS: AMERICAN WELDING SOCIETY INC. AS PUBLISHED IN "STANDARD D1.1-08, STRUCTURAL WELDING CODE" OR LATEST EDITION.
  - C. AISC: AMERICAN INSTITUTE FOR STEEL CONSTRUCTION AS PUBLISHED IN "CODE FOR STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"; "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" (LATEST EDITION).
11. BOLTING:
  - A. BOLTS SHALL BE CONFORMING TO ASTM A325 HIGH STRENGTH, HOT DIP GALVANIZED WITH ASTM A153 HEAVY HEX TYPE NUTS.
  - B. BOLTS SHALL BE 3/4"φ MINIMUM (UNLESS OTHERWISE NOTED)
  - C. ALL CONNECTIONS SHALL BE 2 BOLTS MINIMUM.
12. FABRICATION:
  - A. FABRICATION OF STEEL SHALL CONFORM TO THE AISC AND AWS STANDARDS AND CODES (LATEST EDITION).
  - B. ALL STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 (LATEST EDITION), UNLESS OTHERWISE NOTED.
13. ERECTION OF STEEL:
  - A. PROVIDE ALL ERECTION EQUIPMENT, BRACING, PLANKING, FIELD BOLTS, NUTS, WASHERS, DRIFT PINS, AND SIMILAR MATERIALS WHICH DO NOT FORM A PART OF THE COMPLETED CONSTRUCTION BUT ARE NECESSARY FOR ITS PROPER ERECTION.
  - B. ERECT AND ANCHOR ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC REFERENCE STANDARDS. ALL WORK SHALL BE ACCURATELY SET TO ESTABLISHED LINES AND ELEVATIONS AND RIGIDLY FASTENED IN PLACE WITH SUITABLE ATTACHMENTS TO THE CONSTRUCTION OF THE BUILDING.
  - C. TEMPORARY BRACING, GUYING AND SUPPORT SHALL BE PROVIDED TO KEEP THE STRUCTURE SAFE AND ALIGNED AT ALL TIMES DURING CONSTRUCTION, AND TO PREVENT DANGER TO PERSONS AND PROPERTY. CHECK ALL TEMPORARY LOADS AND STAY WITHIN SAFE CAPACITY OF ALL BUILDING COMPONENTS.

14. RELATED WORK, FURNISH THE FOLLOWING WORK AS SPECIFIED UNDER CONSTRUCTION DOCUMENTS, BUT COORDINATE WITH OTHER TRADES PRIOR TO BID:
  - A. FLASHING OF OPENING INTO OUTSIDE WALLS
  - B. SEALING AND CAULKING ALL OPENINGS
  - C. PAINTING
  - D. CUTTING AND PATCHING
15. REQUIREMENTS OF REGULATORY AGENCIES:
  - A. FURNISH U.L. LISTED EQUIPMENT WHERE SUCH LABEL IS AVAILABLE. INSTALL IN CONFORMANCE WITH U.L. STANDARDS WHERE APPLICABLE.
  - B. INSTALL ANTENNA, ANTENNA CABLES, GROUNDING SYSTEM IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION IN EFFECT AT PROJECT LOCATION AND RECOMMENDATIONS OF STATE AND LOCAL BUILDING CODES, AND SPECIAL CODES HAVING JURISDICTION OVER SPECIFIC PORTIONS OF WORK. THIS WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:
    - C. TIA-EIA - 222 (LATEST EDITION). STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES.
    - D. FAA - FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULAR AC 70/7460-IH, OBSTRUCTION MARKING AND LIGHTING.
    - E. FCC - FEDERAL COMMUNICATIONS COMMISSION RULES AND REGULATIONS FORM 715, OBSTRUCTION MARKING AND LIGHTING SPECIFICATION FOR ANTENNA STRUCTURES AND FORM 715A, HIGH INTENSITY OBSTRUCTION LIGHTING SPECIFICATIONS FOR ANTENNA STRUCTURES.
    - F. AISC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS (LATEST EDITION).
    - G. NEC - NATIONAL ELECTRICAL CODE - ON TOWER LIGHTING KITS.
    - H. UL - UNDERWRITER'S LABORATORIES APPROVED ELECTRICAL PRODUCTS.
    - I. IN ALL CASES, PART 77 OF THE FAA RULES AND PARTS 17 AND 22 OF THE FCC RULES ARE APPLICABLE AND IN THE EVENT OF CONFLICT, SUPERSEDE ANY OTHER STANDARDS OR SPECIFICATIONS.
  - J. 2018 LIFE SAFETY CODE NFPA - 101.

**APPLICANT:**  
  
**T-MOBILE NORTHEAST LLC**  
 35 GRIFFIN ROAD SOUTH  
 BLOOMFIELD, CT 06002  
 860-692-7100

**PROJECT MANAGER**  
  
 420 MAIN STREET, BLDG 4  
 STURBRIDGE, MA 01566  
 203-275-6669

**ENGINEERING CONSULTANT:**  
  
 Architects . Engineers . Surveyors  
 462 WALNUT STREET, SUITE 1  
 NEWTON, MA 02460  
 617-212-3123  


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**SITE NUMBER: CT11527B**  
 SITE NAME: CT527 / CORDLESS  
 SITE ADDRESS: 47 TURNPIKE ROAD  
 WILLINGTON, CT 06279

SHEET TITLE:  
 N-1: GENERAL NOTES



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**FOUNDATION, EXCAVATION AND BACKFILL NOTES**

1. ALL FINAL GRADED SLOPES SHALL BE A MAXIMUM OF 3 HORIZONTAL TO 1 VERTICAL.
2. ALL EXCAVATIONS PREPARED FOR PLACEMENT OF CONCRETE SHALL BE OF UNDISTURBED SOILS, SUBSTANTIALLY HORIZONTAL AND FREE FROM ANY LOOSE, UNSUITABLE MATERIAL OR FROZEN SOILS, AND WITHOUT THE PRESENCE OF POUNDING WATER. DEWATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED WHEN REQUIRED. COMPACTION OF SOILS UNDER CONCRETE PAD FOUNDATIONS SHALL NOT BE LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR THE SOIL IN ACCORDANCE WITH ASTM D1557.
3. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC OR UNSUITABLE MATERIAL. IF INADEQUATE BEARING CAPACITY IS REACHED AT THE DESIGNED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION SHALL BE FILLED WITH CONCRETE OF THE SAME TYPE SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. ANY STONE SUB BASE MATERIAL, IF USED, SHALL NOT SUBSTITUTE FOR REQUIRED THICKNESS OF CONCRETE.
4. ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH PRIOR TO BACK FILLING. BACK FILL SHALL CONSIST OF APPROVED MATERIALS SUCH AS EARTH, LOAM SANDY CLAY, SAND AND GRAVEL, OR SOFT SHALE, FREE FROM CLODS OR LARGE STONES OVER 2 1/2" MAX DIMENSIONS. ALL BACK FILL SHALL BE PLACED IN COMPACTED LAYERS.
5. ALL FILL MATERIALS AND FOUNDATION BACK FILL SHALL BE PLACED MAXIMUM 6" THICK LIFTS BEFORE COMPACTION. EACH LIFT SHALL BE WETTED IF REQUIRED AND COMPACTED TO NOT LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR SOIL IN ACCORDANCE WITH ASTM D1557.
6. NEWLY PLACED CONCRETE FOUNDATIONS SHALL CURE A MINIMUM OF 72 HRS PRIOR TO BACK FILLING.
7. FINISHED GRADING SHALL BE SLOPED TO PROVIDE POSITIVE DRAINAGE AND PREVENT STANDING WATER. THE FINAL (FINISH) ELEVATION OF SLAB FOUNDATIONS SHALL SLOPE AWAY IN ALL DIRECTIONS FROM THE CENTER. FINISH GRADE OF CONCRETE PADS SHALL BE A MAXIMUM OF 4 INCHES ABOVE FINAL FINISH GRADE ELEVATIONS. PROVIDE SURFACE FILL GRAVEL TO ESTABLISH SPECIFIED ELEVATIONS WHERE REQUIRED.
8. NEWLY GRADED SURFACE AREAS TO RECEIVE GRAVEL SHALL BE COVERED WITH GEOTEXTILE FABRIC TYPE: YPAR-3401 AS MANUFACTURED BY "CONSTRUCTION MATERIAL 1-800-239-3841" OR AN APPROVED EQUIVALENT, SHOWN ON PLANS. THE GEOTEXTILE FABRIC SHALL BE BLACK IN COLOR TO CONTROL THE RECURRENCE OF VEGETATIVE GROWTH AND EXTEND TO WITHIN 1 FOOT OUTSIDE THE SITE FENCING OR ELECTRICAL GROUNDING SYSTEM PERIMETER WHICH EVER IS GREATER. ALL FABRIC SHALL BE COVERED WITH A MINIMUM OF 4" DEEP COMPACTED STONE OR GRAVEL AS SPECIFIED. I.E. FDOT TYPE NO. 57 FOR FENCED COMPOUND; FDOT TYPE NO. 67 FOR ACCESS DRIVE AREA.
9. IN ALL AREAS TO RECEIVE FILL, REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE. PLOW STRIP OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SUCH THAT FILL MATERIAL WILL BIND WITH EXISTING/PREPARED SOIL SURFACE.
10. WHEN SUB GRADE OR PREPARED GROUND SURFACE HAS A DENSITY LESS THAN THAT REQUIRED FOR THE FILL MATERIAL, SCARIFY THE GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE-CONDITION AND/OR AERATE THE SOILS AND RE-COMPACT TO THE REQUIRED DENSITY PRIOR TO PLACEMENT OF FILLS.
11. IN AREAS WHICH EXISTING GRAVEL SURFACING IS REMOVED OR DISTURBED DURING CONSTRUCTION OPERATIONS, REPLACE GRAVEL SURFACING TO MATCH ADJACENT GRAVEL SURFACING AND RESTORED TO THE SAME THICKNESS AND COMPACTION AS SPECIFIED. ALL RESTORED GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES.
12. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED WITH THE CONDITION THAT ANY UNFAVORABLE AMOUNTS OF ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ANY ADDITIONAL GRAVEL RESURFACING MATERIAL AS NEEDED TO PROVIDE A FULL DEPTH COMPACTED SURFACE THROUGHOUT SITE.
13. GRAVEL SUB SURFACE SHALL BE PREPARED TO REQUIRED COMPACTION AND SUB GRADE ELEVATIONS BEFORE GRAVEL SURFACING IS PLACED AND/OR RESTORED. ANY LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED AND ANY DEPRESSIONS IN THE SUB GRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL SHALL NOT BE USED FOR FILLING DEPRESSIONS IN THE SUB GRADE.
14. PROTECT EXISTING GRAVEL SURFACING AND SUB GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE.
15. DAMAGE TO EXISTING STRUCTURES AND/OR UTILITIES RESULTING FROM CONTRACTORS NEGLIGENCE SHALL BE REPAIRED AND/OR REPLACED TO THE OWNERS SATISFACTION AT NO ADDITIONAL COST TO THE CONTRACT.
16. ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES AT NO ADDITIONAL COST TO THE CONTRACT.

**STRUCTURAL STEEL NOTES**

1. ALL STEEL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION. STEEL SECTIONS SHALL BE IN ACCORDANCE WITH ASTM AS INDICATED BELOW:  
 ANGLES, BARS, CHANNELS, PLATES: ASTM A36, 36 KSI  
 HSS SECTIONS: ASTM 500, 46 KSI  
 PIPE SECTIONS: ASTM A53-E, 35 KSI
2. ALL EXTERIOR EXPOSED STEEL AND HARDWARE SHALL BE HOT DIPPED GALVANIZED.
3. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP. ALL WELDING SHALL BE PERFORMED IN AN APPROVED SHOP.
4. ALL BOLTS FOR STEEL TO STEEL CONNECTIONS TO BE PER ASTM A325. HOLES TO BE 1/16" DIA. LARGER THAN BOLT, U.N.O.
5. FIELD MODIFICATIONS ARE TO BE COATED WITH ZINC ENRICHED PAINT.

**SITE WORK NOTES**


1. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
2. DO NOT SCALE BUILDING DIMENSIONS FROM DRAWING.
3. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON AS-BUILT DRAWINGS BY GENERAL CONTRACTOR AND ISSUED TO ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.
4. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ENGINEER AND OWNER ASSUME NOT RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
5. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
6. CONTRACTOR SHALL CALL LOCAL DIGGER HOT LINE FOR UTILITY LOCATIONS 48 HOURS PRIOR TO START OF CONSTRUCTION. 7. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
8. GRADING OF THE SITE WORK AREA IS TO BE SMOOTH AND CONTINUOUS IN SLOPE AND IS TO FEATHER INTO EXISTING GRADES AT THE GRADING LIMITS.
9. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERL

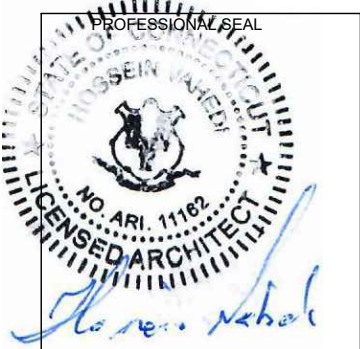
**STRUCTURAL CONCRETE NOTES**

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 318-08 AND THE SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
  2. ALL CONCRETE FOR SLABS ON GRADE, SHELTER FOUNDATION, AND PIER FOUNDATIONS FOR FENCES, ICE BRIDGE, AND H-FRAME SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH FC=4,000 PSI AT 28 DAYS UNLESS NOTED OTHERWISE. SPECIAL INSPECTION REQUIRED AS NOTED.
  3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" AND ALL HOOKS SHALL BE STANDARD UNLESS NOTED OTHERWISE.
  4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:  
 CONCRETE CAST AGAINST EARTH.....3 IN.  
 CONCRETE EXPOSED TO EARTH OR WEATHER:  
 #6 AND LARGER.....2 IN.  
 #5 AND SMALLER & WWF.....1 1/2 IN.  
 CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:  
 SLAB AND WALL.....3/4 IN.  
 BEAMS AND COLUMNS.....1 1/2 IN.
  5. A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE U.N.O. IN ACCORDANCE WITH ACI 301, LATEST EDITION, SECTION 4.
  6. HOLES TO RECEIVE EXPANSION/WEDGE ANCHORS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLT, DOWEL OR ROD AND SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. LOCATE AND AVOID CUTTING EXISTING REBAR WHEN DRILLING HOLES IN ELEVATED CONCRETE SLABS.
  7. USE AND INSTALLATION OF CONCRETE ADHESIVE AND EXPANSION/WEDGE ANCHORS SHALL BE PER ICC & MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURES.
  8. FOUNDATION DESIGN IS BASED ON PRESUMPTIVE SOIL PARAMETERS. IT IS STRONGLY RECOMMENDED THAT INDEPENDENT SOILS TESTING BE PERFORMED BY A LICENSED GEOTECHNICAL ENGINEER TO VERIFY SOIL BEARING CAPACITY, SLOPE STABILITY, AND ALL OTHER RELATED SOIL PARAMETERS.
- POST-INSTALLED ANCHORS**
1. USE, INSTALLATION, EMBEDMENT DEPTH, AND DIAMETER OF ADHESIVE ANCHORS IN HARDENED CONCRETE SHALL CONFORM TO ICC REPORT & MANUFACTURER'S RECOMMENDATIONS.
  2. MAINTAIN CRITICAL EDGE DISTANCE SPECIFIED IN ICC REPORT AS A MINIMUM, U.N.O. IN THESE DRAWINGS.
  3. LOCATE AND AVOID CUTTING EXISTING REBAR OR TENDONS WHEN DRILLING HOLES IN ELEVATED CONCRETE SLABS.
- SPECIAL INSPECTION NOTES**
1. CONTRACTOR SHALL PROVIDE REQUIRED SPECIAL INSPECTIONS PERFORMED BY AN INDEPENDENT INSPECTOR, APPROVED BY CARRIER AND THE LOCAL JURISDICTION, AS REQUIRED BY IBC SECTION 1704 AND 1705 FOR THE FOLLOWING:  
 A. STRUCTURAL STEEL:  
 I. ALL HIGH STRENGTH BOLT INSTALLATIONS; BOLTING INSPECTION TASKS SHALL BE IN ACCORDANCE WITH TABLES N5.6-1, N5.6-2, AND N5.6-3 PER AISC 360-10.  
 II. FIELD WELDING (IF UTILIZED).  
 B. BOLTS, REBAR, AND ANCHORS IN CONCRETE:  
 I. RETROFIT ANCHORS IN CONCRETE (ASHESIVE/EPOXY, EXPANSION, WEDGE, OR SCREW TYPE ANCHORS): INSPECT SIZE, LENGTH, CLEANLINESS, AND INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.  
 SPECIAL INSPECTION NOTES  
 C. CONCRETE CONSTRUCTION:  
 I. VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH IBC SECTION 1705, TABLE 1705.3.  
 2. PROVIDE SPECIAL INSPECTIONS FOR OTHER ITEMS NOTED ON DRAWINGS TO CONFIRM COMPLIANCE WITH CONTRACT DOCUMENTS.  
 3. THE SPECIAL INSPECTOR SHALL PROVIDE A COPY OF THE REPORT TO THE OWNER, ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL

**APPLICANT:**  
  
**T-MOBILE NORTHEAST LLC**  
 35 GRIFFIN ROAD SOUTH  
 BLOOMFIELD, CT 06002  
 860-692-7100

**PROJECT MANAGER**  
  
 420 MAIN STREET, BLDG 4  
 STURBRIDGE, MA 01566  
 203-275-6669

**ENGINEERING CONSULTANT:**  
  
 462 WALNUT STREET, SUITE 1  
 NEWTON, MA 02460  
 617-212-3123



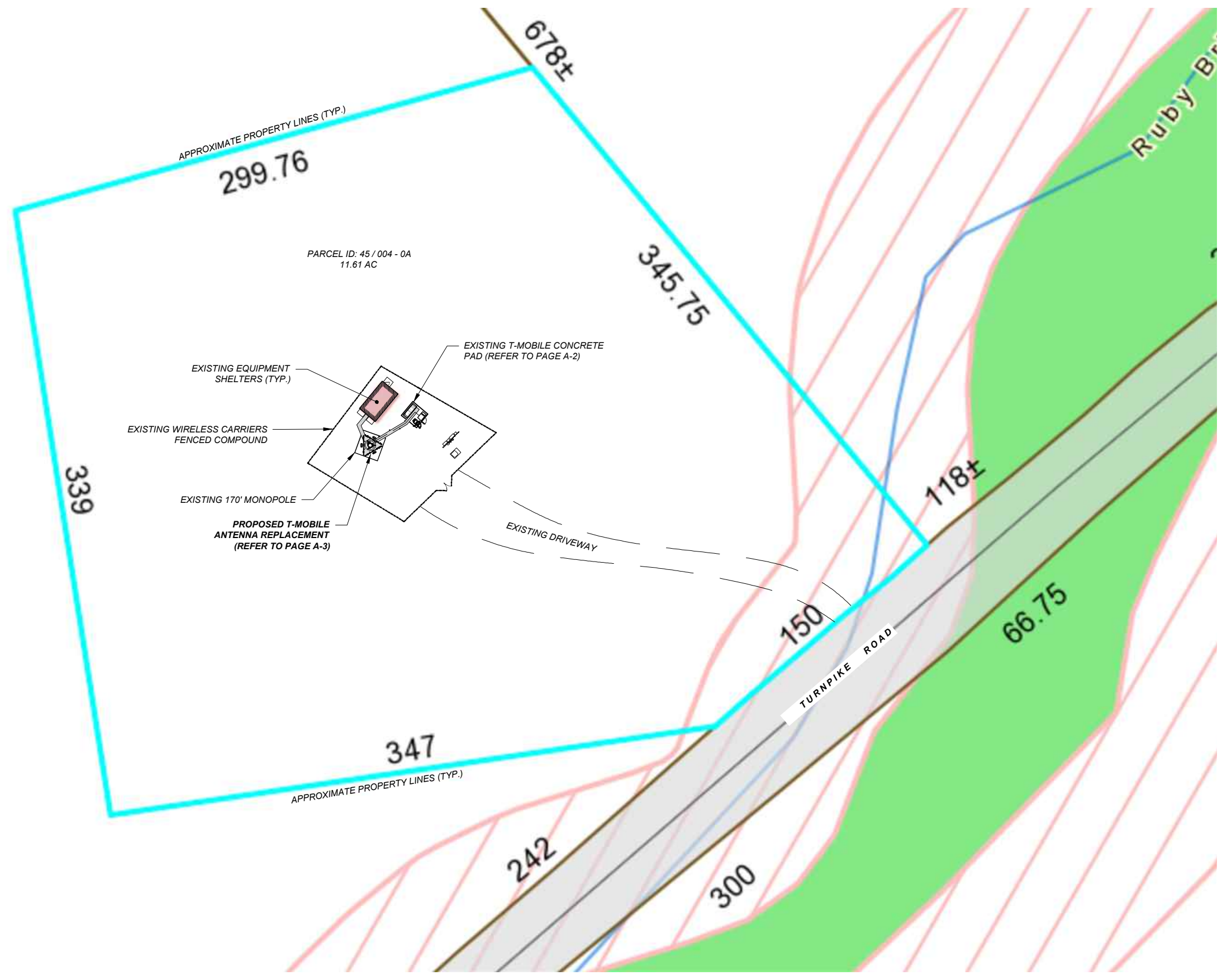
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 SITE ADDRESS: 47 TURNPIKE ROAD  
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 N-1: GENERAL NOTES

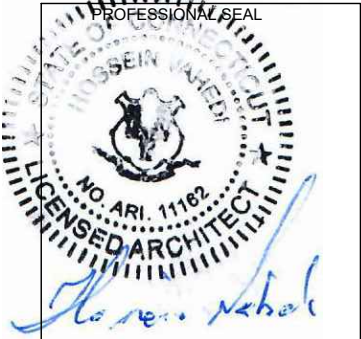
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**PLOT PLAN**  
 SCALE: 1" = 60' 1  
A-1

**APPLICANT:**  
**T-Mobile**  
**T-MOBILE NORTHEAST LLC**  
 35 GRIFFIN ROAD SOUTH  
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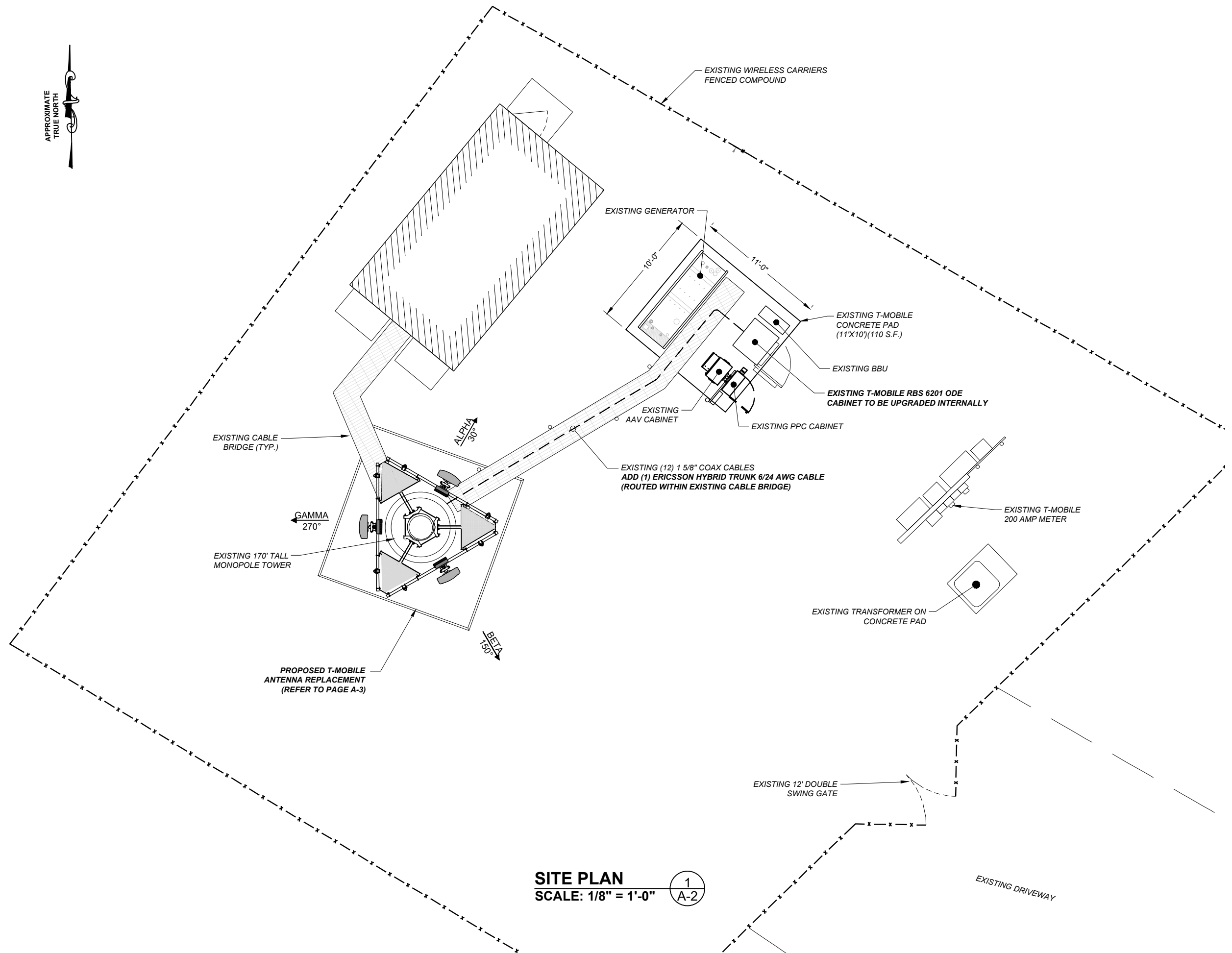
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**SITE NUMBER: CT11527B**  
**SITE NAME: CT527 / CORDLESS**  
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 WILLINGTON, CT 06279

**SHEET TITLE:**  
 A-1: PLOT PLAN

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**SITE PLAN**  
**SCALE: 1/8" = 1'-0"**

1  
A-2

**APPLICANT:**  
**T-Mobile**  
**T-MOBILE NORTHEAST LLC**  
 35 GRIFFIN ROAD SOUTH  
 BLOOMFIELD, CT 06002  
 860-692-7100

**PROJECT MANAGER**  
  
 NORTHEAST  
 SITE SOLUTIONS  
*Turning Wireless Development*  
 420 MAIN STREET BLDG 4  
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**ENGINEERING CONSULTANT:**  
  
**FORESITE** LLC  
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 462 WALNUT STREET, SUITE 1  
 NEWTON, MA 02460  
 617-212-3123  
  
*Thomas Nehal*

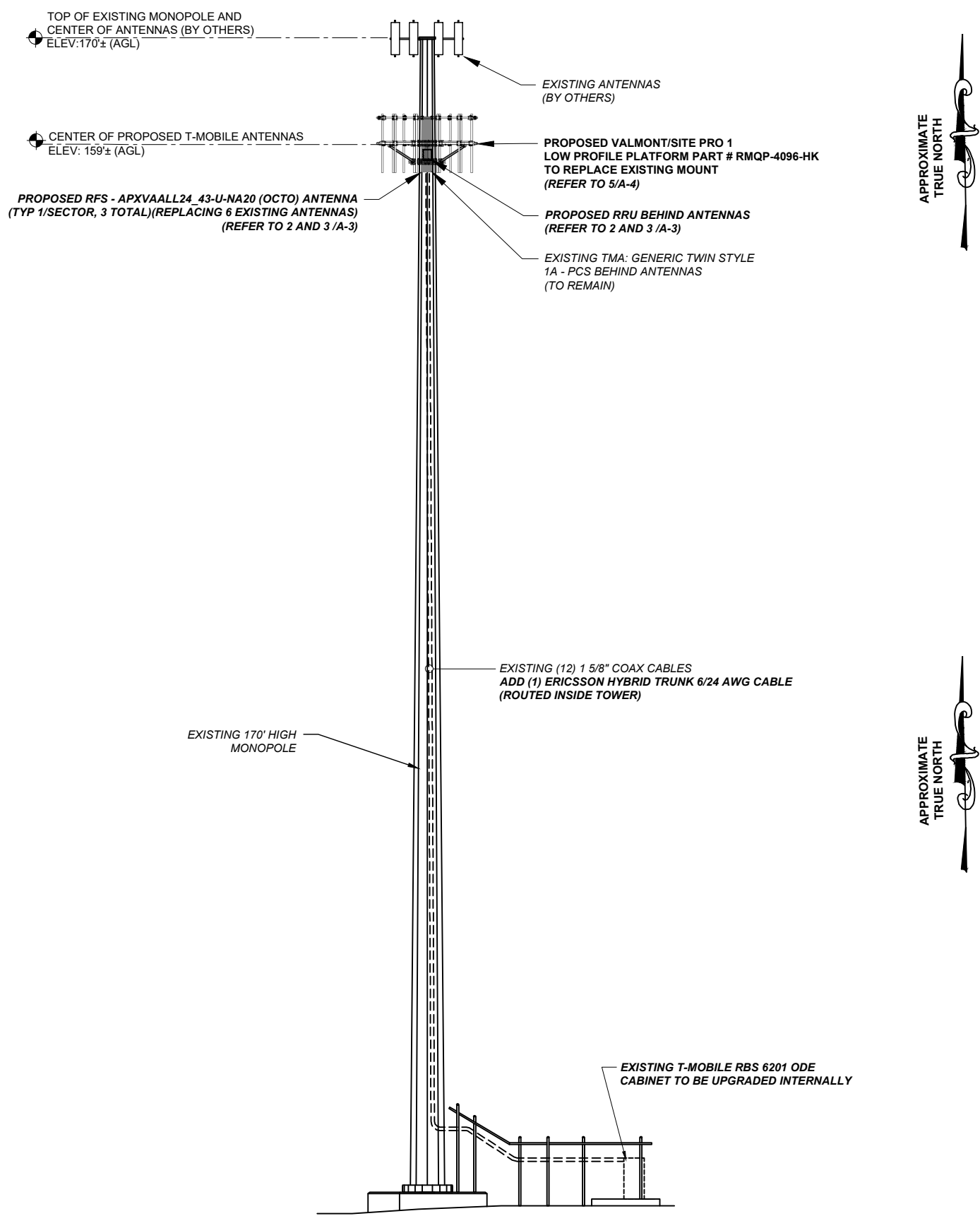
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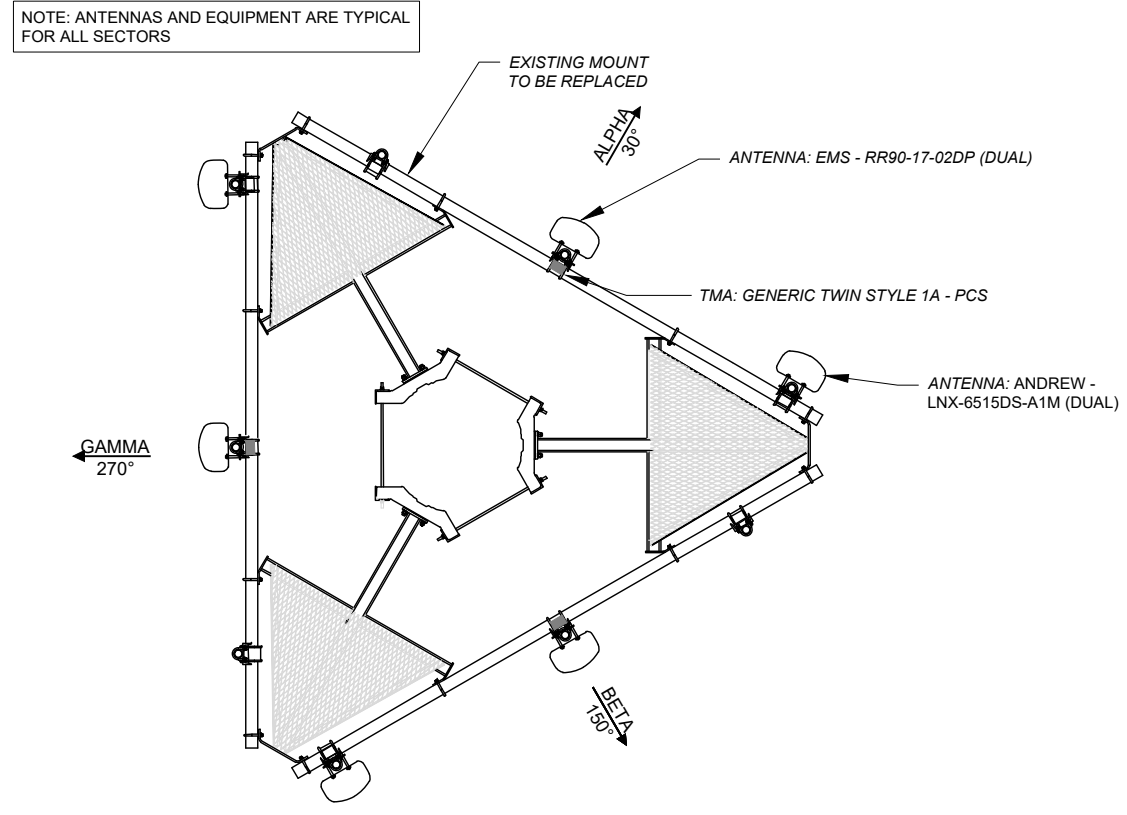
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**SHEET TITLE:**  
**A-2: SITE PLAN**

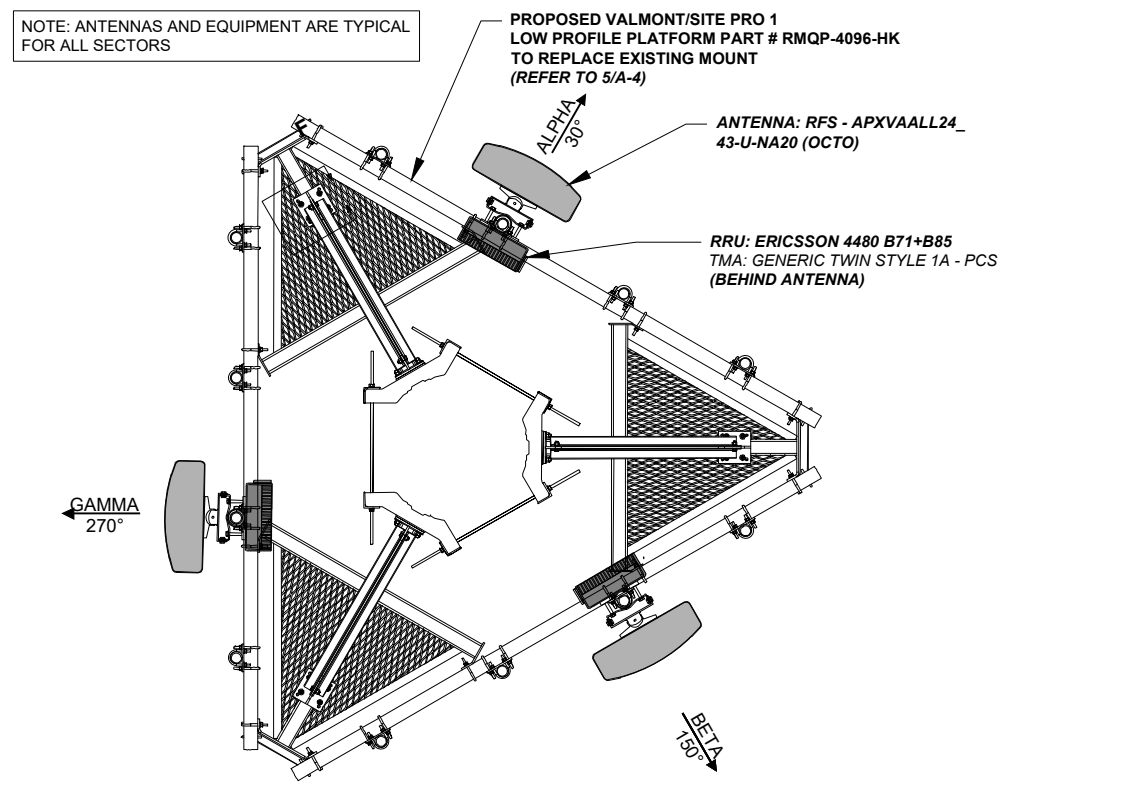
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**ELEVATION**  
N.T.S. 1  
A-3



**EXISTING ANTENNA PLAN**  
N.T.S. 2  
A-3



**FINAL ANTENNA PLAN**  
N.T.S. 3  
A-3

**APPLICANT:**  
**T-Mobile**  
**T-MOBILE NORTHEAST LLC**  
35 GRIFFIN ROAD SOUTH  
BLOOMFIELD, CT 06002  
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**PROJECT MANAGER**  
**NORTHEAST SITE SOLUTIONS**  
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PROFESSIONAL SEAL  
STATE OF CONNECTICUT  
ARCHITECT  
NO. ARI. 11182  
LICENSED ARCHITECT  
*Flora A. Nehal*

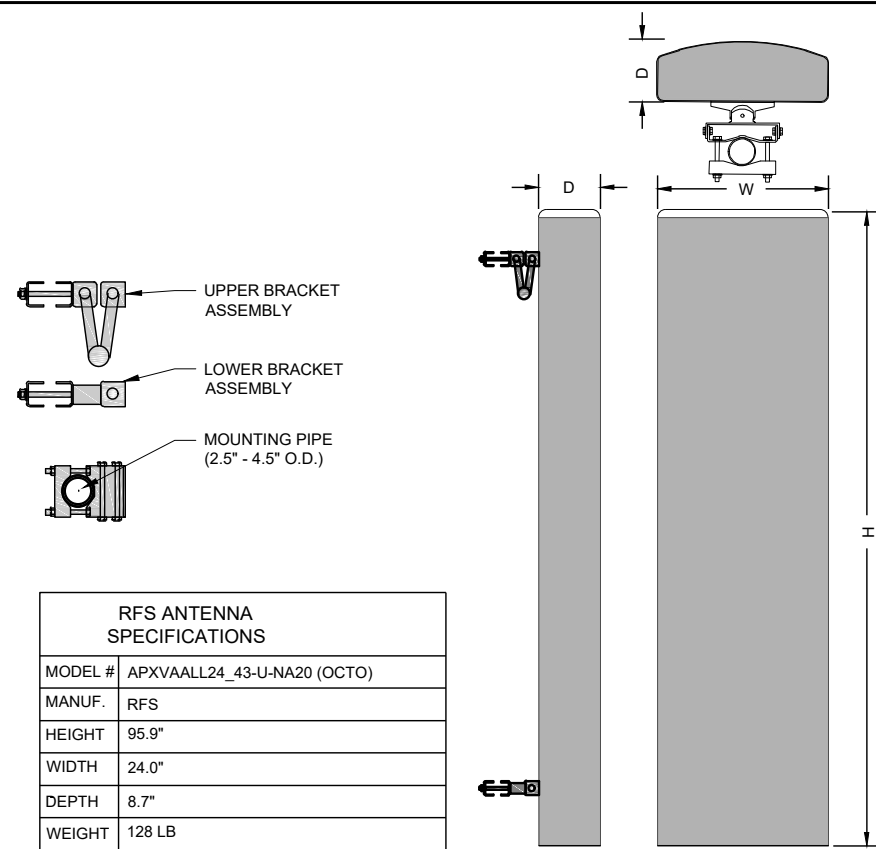
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SHEET TITLE:  
A-3: ELEVATION AND ANTENNA PLANS

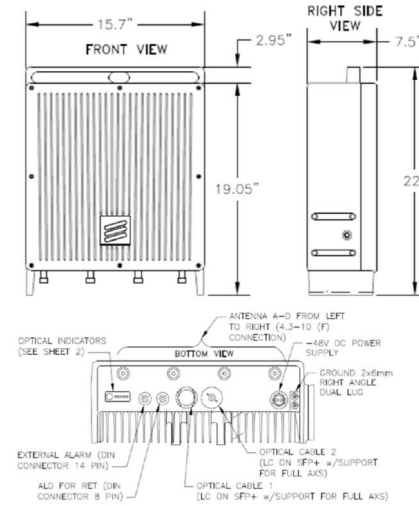
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RFS ANTENNA SPECIFICATIONS	
MODEL #	APXVAALL24_43-U-NA20 (OCTO)
MANUF.	RFS
HEIGHT	95.9"
WIDTH	24.0"
DEPTH	8.7"
WEIGHT	128 LB

**RFS ANTENNA**  
N.T.S

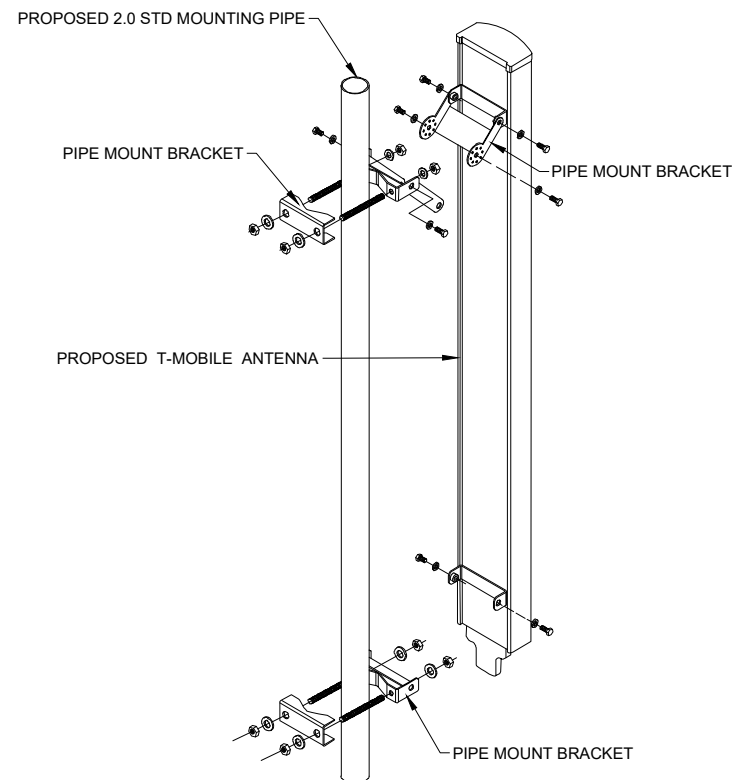
1  
A-4



RRU SPECIFICATIONS	
MODEL #	4480 B71+85
MANUF.	ERICSSON
LENGTH	22.0"
WIDTH	15.7"
DEPTH	7.5"
WEIGHT	93.0 LB

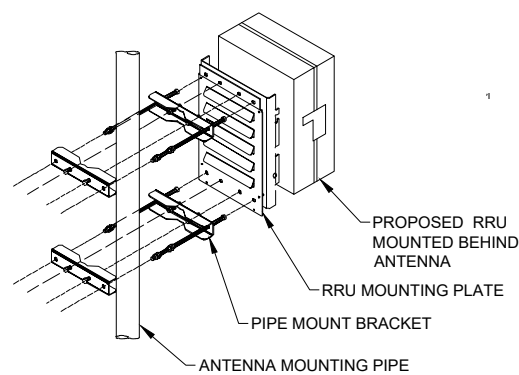
**REMOTE RADIO UNIT**  
N.T.S

2  
A-4



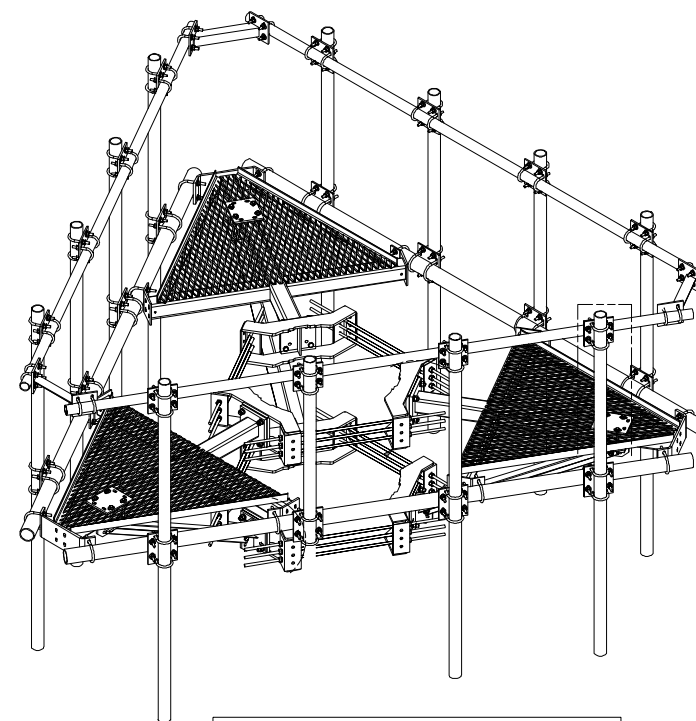
**ANTENNA MOUNT DETAIL**  
N.T.S

3  
A-4



**RRU MOUNT DETAIL**  
N.T.S

4  
A-4



**NEW MOUNT DETAIL**  
N.T.S

5  
A-4

**APPLICANT:**  
**T-Mobile**  
**T-MOBILE NORTHEAST LLC**  
35 GRIFFIN ROAD SOUTH  
BLOOMFIELD, CT 06002  
860-692-7100

**PROJECT MANAGER**  
**NORTHEAST SITE SOLUTIONS**  
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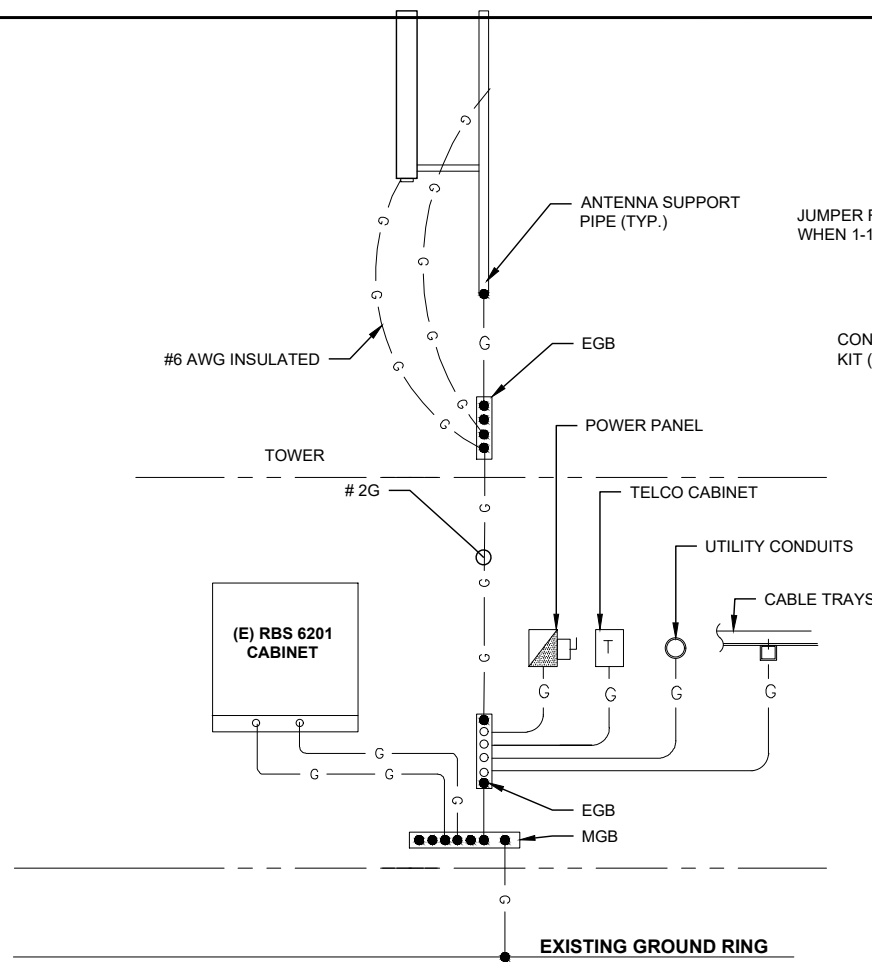
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A-4: ANTENNA AND EQUIPMENT SPECIFICATIONS

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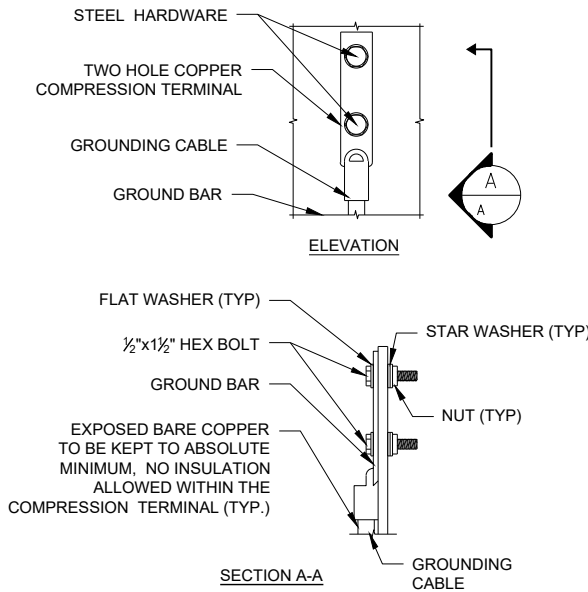
**ELECTRICAL & GROUNDING NOTES**

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
2. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PRODUCED PER SPECIFICATION REQUIREMENTS.
3. THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
4. GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
5. ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) ND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
6. RIGID STEEL CONDUITS SHALL BE GROUNDED AT BOTH ENDS.
7. ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THIN INSULATION.
8. RUN ELECTRICAL CONDUIT OR CABLING BETWEEN ELECTRICAL ROOM AND PROPOSED CELL SITE ARE PEDESTAL AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
9. RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROPOSED CELL SITE TELECOM CABINET AND RBS CABINET AS INDICATED ON DRAWING A -1. PROVIDE FULL LENGTH PULL ROPE INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.
10. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NAME 3R ENCLOSURE.
11. GROUNDING SHALL COMPLY WITH NEC ART. 250.
12. GROUNDING COAX CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
13. USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSTALLATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE GROUND.
14. ALL GROUND CONNECTION TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
15. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AS RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY BOND ANY METER OBJECTS WITHIN 7 FEET OF PROPOSED EQUIPMENT OR CABINET TO MASTER GROUND BAR.
16. CONNECTIONS TO MGB SHALL BE ARRANGED IN THREE MAIN GROUPS: SURGE PROCEDURES (COAXIAL CABLE GROUND KITS, TELCO AND POWER PANEL GROUND); (GROUNDING ELECTRODE RING OR BUILDING STEEL); NON-SURGING OBJECTS (EGB GROUND IN RBS UNIT).
17. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
18. APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTION.
19. BOND ANTENNA MOUNTING BRACKETS, COAXIAL CABLE GROUND KITS, AND ALNA TO EGB PLACED NEAR THE ANTENNA LOCATION.
20. BOND ANTENNA EGB'S AND MGB TO WATER MAIN.
21. TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION.
22. BOND ANY METAL OBJECTS WITHIN 7 FEET OF PROPOSED EQUIPMENT OR CABINET TO MASTER GROUND BAR.
23. VERIFY PROPOSED SERVICE UPGRADE WITH LOCAL UTILITY COMPANY PRIOR TO CONSTRUCTION.



**GROUNDING RISER DIAGRAM**  
N.T.S.

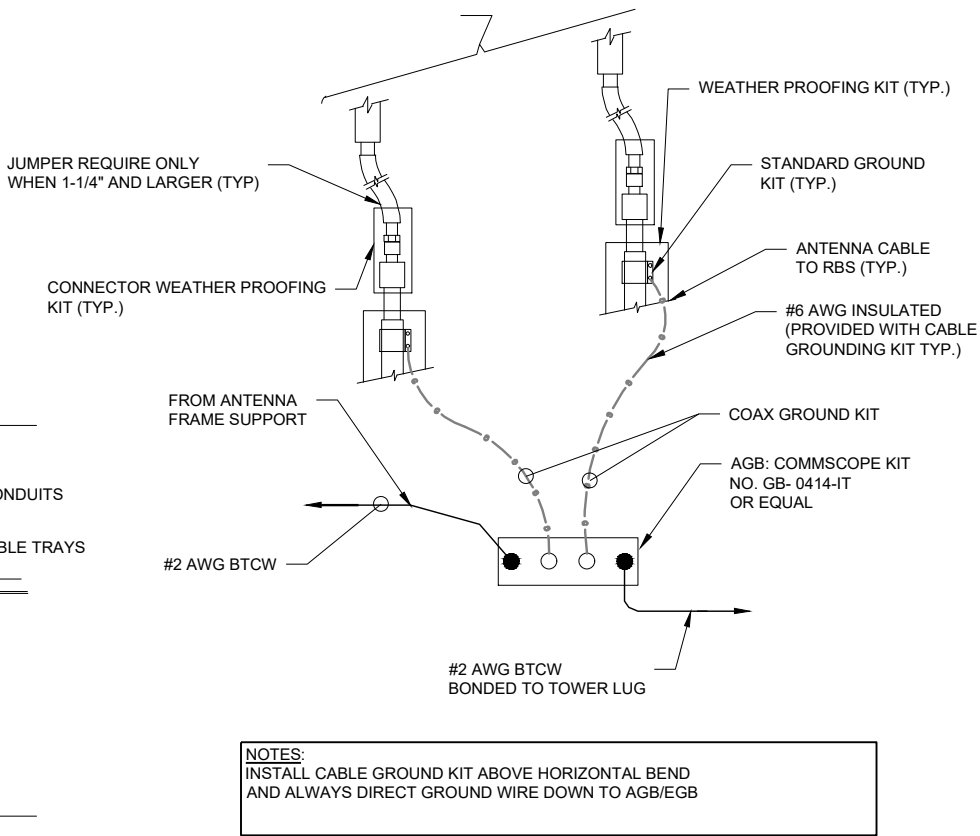
1  
E-1



- NOTES:  
 1. "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.  
 2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

**TYPICAL GROUND BAR CONNECTIONS DETAIL**  
N.T.S.

3  
E-1



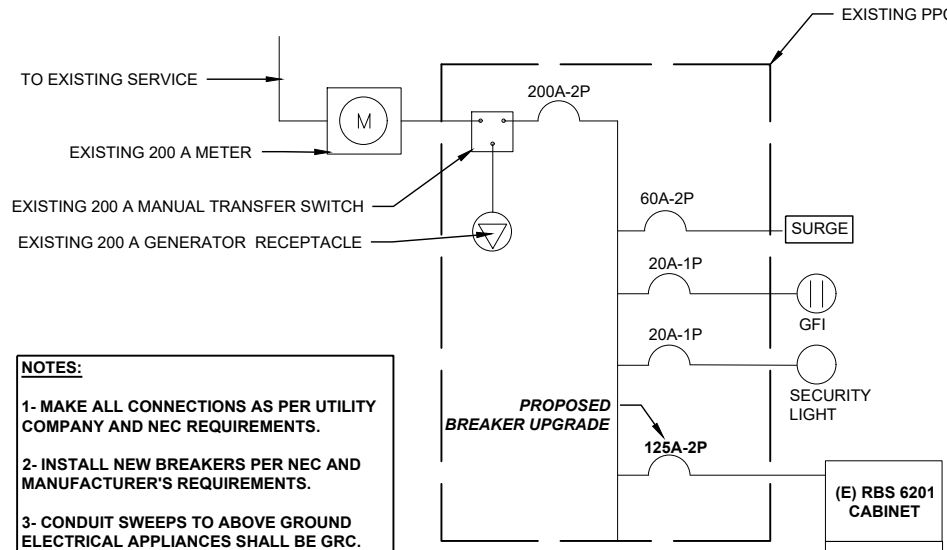
- NOTES:  
 INSTALL CABLE GROUND KIT ABOVE HORIZONTAL BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO AGB/EGB

**TOWER TOP CABLE GROUNDING DETAIL**  
N.T.S.

2  
E-1

**SPECIAL CONTRACTOR'S NOTES:**

CONTRACTOR TO VERIFY THE POWER FEED & PHASE OF METER BANK AND THAT THE EXISTING AND PROPOSED CONDUITS AND WIRE SIZES ARE ADEQUATE FOR THE PROPOSED LOADING IN ACCORDANCE WITH NEC AND INCLUDE ELECTRICAL UPGRADES IN THE SCOPE OF WORK AS REQUIRED.



- NOTES:  
 1- MAKE ALL CONNECTIONS AS PER UTILITY COMPANY AND NEC REQUIREMENTS.  
 2- INSTALL NEW BREAKERS PER NEC AND MANUFACTURER'S REQUIREMENTS.  
 3- CONDUIT SWEEPS TO ABOVE GROUND ELECTRICAL APPLIANCES SHALL BE GRC.  
 4- UTILITY COMPANY TO CONFIRM CAPACITY IN METER BANK AND TRANSFORMER.

**TYPICAL ONE LINE DIAGRAM**  
N.T.S.

4  
E-1

**APPLICANT:**  
**T-Mobile**  
**T-MOBILE NORTHEAST LLC**  
 35 GRIFFIN ROAD SOUTH  
 BLOOMFIELD, CT 06002  
 860-692-7100

**PROJECT MANAGER**  
  
 420 MAIN STREET, BLDG 4  
 STURBRIDGE, MA 01566  
 203-275-6669

**ENGINEERING CONSULTANT:**  
**FORESITE LLC**  
 Architects . Engineers . Surveyors  
 462 WALNUT STREET, SUITE 1  
 NEWTON, MA 02460  
 617-212-3123

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REV	DESCRIPTION	DATE
A	PRELIMINARY	07/14/22
0	FINAL ISSUED	07/19/22
1	REVISED PER NEW STATE CODES	01/23/23
2	REVISED PER COMMENTS	01/30/23

**SITE NUMBER: CT11527B**  
**SITE NAME: CT527 / CORDLESS**  
 SITE ADDRESS: 47 TURNPIKE ROAD  
 WILLINGTON, CT 06279

SHEET TITLE:  
 E-1: ELECTRICAL & GROUNDING DETAIL

# Exhibit D

## **Structural Analysis Report**

**Report Date:** February 17, 2023

**Client:** Everest Infrastructure Partners  
ATTN: Andy Dykstra  
Two Allegheny Center Nova Tower 2, Suite 1002  
Pittsburgh, PA, 15212  
Phone: (412) 489-0348  
Email: [andrew.dykstra@everestinfrastructure.com](mailto:andrew.dykstra@everestinfrastructure.com)

**Structure:** 170ft Monopole  
**Site Name:** Willington CDT  
**Site Reference #:** 702498  
**Site Address:** 47 Turnpike Road  
**City, County, State:** Willington, Tolland, CT  
**Latitude, Longitude:** 41.9255, -72.2524

**PJF Project Number:** A13323-0002.001.7805

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

**Analysis Criteria:**

This analysis has been performed in accordance with the 2022 Connecticut Building Code based on an ultimate 3-second gust wind speed of 118 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

**Proposed Appurtenance Loads:**

The structure was analyzed with the proposed loading configuration shown in Table 1 of this report.

**Summary of Analysis Results:**

Existing Structure:	Pass	73.4%
Existing Foundation:	Pass	69.6%

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

Respectfully Submitted By:  
Paul J. Ford and Company



Donna L. Campbell   
Structural Designer II  
[dcampbell@pauljford.com](mailto:dcampbell@pauljford.com)



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



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### 1) INTRODUCTION

### 2) ANALYSIS CRITERIA

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Table 4 - Tower Component Stresses vs Capacity

4.1) Recommendations

### 5) APPENDIX A

tnxTower Output

### 6) APPENDIX B

Additional Calculations

**1) INTRODUCTION**

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

**2) ANALYSIS CRITERIA**

TIA-222 Revision: TIA-222-H  
 Risk Category: II  
 Wind Speed: 118 mph  
 Exposure Category: C  
 Topographic Factor: 1  
 Ice Thickness: 1.5 in  
 Ice Wind Speed: 50 mph  
 Service Wind Speed: 60 mph

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

Status	Mounting Level (ft)	Ant. CL (ft)	Qty.	Antenna Model	Mount Type	Feed Line Qty.	Feed Line Size (in)	Coax Location	Owner/Tenant
Existing	170.0	170.0	3	DMP65R-BU6D w/ Mount Pipe	(3) 12' T-Arm Mounts	12	1-5/8	Inside	AT&T
			3	HPA65R-BU6A w/ Mount Pipe					
			3	OPA65R-BU6A w/ Mount Pipe					
			3	RRUS 32 B2					
			3	RRUS 4449 B5/B12					
			3	RRUS 8843 B2/B66A					
			3	7770 w/ Mount Pipe					
			6	LGP21401					
			2	DC6-48-60-18-8C					
			1	DC6-48-60-18-8F					
			1	(3) 12' T-Arm Mounts					
Reserved	159.0	159.0	3	AIR 6419 B41 w/ Mount Pipe	Valmont/SiteP ro1 Platform RMPQ-4096-HK	-	-	-	T-Mobile
Existing			3	KRY 112 71		12	1-5/8	Inside	
Proposed			3	APXVAALL24_43-U-NA20 w/ Mount Pipe		1	6/24	Inside	
	3	RRU 4480 B71 B85							

Status	Mounting Level (ft)	Ant. CL (ft)	Qty.	Antenna Model	Mount Type	Feed Line Qty.	Feed Line Size (in)	Coax Location	Owner/Tenant
To Be Removed			3	LNX-6515DS-A1M	Existing Platform	-	-	-	
			3	EMS-RR90-17-02DP					
Existing	149.0	149.0	3	TA08025-B604	Site Pro 1 SNP8HR-396	1	1-5/8	Inside	Dish
			3	TA08025-B605					
			3	MX08FRO665-20 w/ Mount Pipe					
			1	RDIDC-9181-PF-48					

### 3) ANALYSIS PROCEDURE

**Table 2 - Documents Provided**

Document	Remarks	Reference	Source
Structural Analysis	Nudd, 11/13/2016	116-23148	Everest
Mount Analysis	EFI Global	049.03533-2275026	

#### 3.1) Analysis Method

tnxTower (version 8.1.1.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A.

#### 3.2) Assumptions

- 1) Tower and structures were maintained in accordance with the TIA-222 standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and the referenced drawings.
- 3) All coaxial cables are assumed to run internal to the monopole shaft.

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

**4) ANALYSIS RESULTS**

**Table 3 - Section Capacity (Summary)**

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	170 - 160	Pole	TP26.25x22x0.25	1	-3.74	1206.91	8.7	Pass
L2	160 - 130	Pole	TP32.56x26.25x0.25	2	-12.80	1455.89	40.5	Pass
L3	130 - 84.5	Pole	TP41.63x31.1135x0.3125	3	-21.90	2330.31	59.4	Pass
L4	84.5 - 40	Pole	TP50.38x39.8482x0.375	4	-34.56	3386.50	61.4	Pass
L5	40 - 0	Pole	TP58x48.2609x0.375	5	-50.90	4012.41	73.4	Pass
							Summary	
						Pole (L5)	73.4	Pass
						Rating =	73.4	Pass

**Table 4 - Tower Component Stresses vs Capacity**

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	49.1	Pass
1	Base Plate	0	59.4	Pass
1	Base Foundation (Structure)	0	69.6	Pass

<b>Structure Rating (max from all components) =</b>	<b>73.4%</b>
---	--------------

Notes:

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

**4.1) Recommendations**

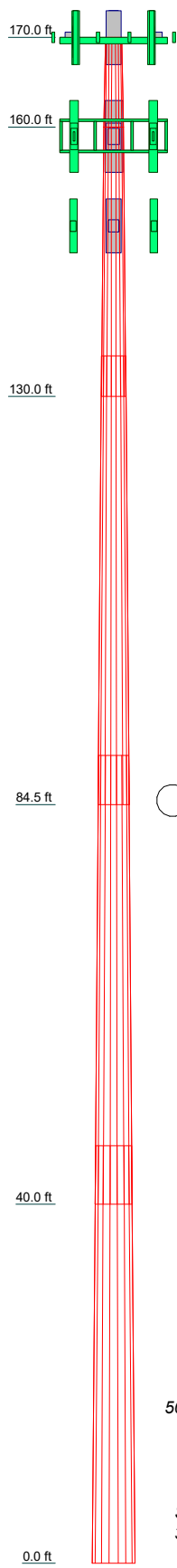
The tower and its foundation have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

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

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

**APPENDIX A**  
**TNXTOWER OUTPUT**

Section	1	2	3	4	5	28.1
Length (ft)	10.0000	30.0000	50.0000	50.0000	46.5000	
Number of Sides	18	18	18	18	18	
Thickness (in)	0.2500	0.2500	0.3125	0.3750	0.3750	
Socket Length (ft)	4.5000	4.5000	5.5000	6.5000	6.5000	
Top Dia (in)	22.0000	26.2500	31.1135	39.8482	48.2609	
Bot Dia (in)	26.2500	32.5600	41.6300	50.3800	58.0000	
Grade	A572-65					
Weight (K)	0.6	2.4	6.1	9.1	9.9	

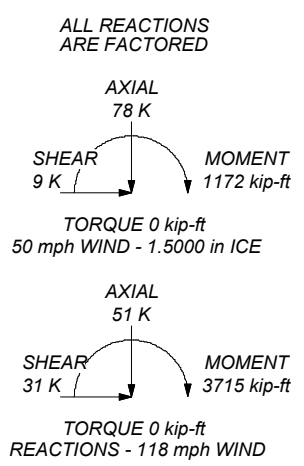


### MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

### TOWER DESIGN NOTES

1. Tower is located in Tolland County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 118 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.0000 ft
8. TOWER RATING: 73.4%



**Paul J Ford & Company**  
 250 East Broad Street, STE 600  
 Columbus, Ohio  
 Phone: 614-221-6679  
 FAX:

Job: <b>170' Monopole   Willington, CT</b>			
Project: <b>13323-0001.001.7805</b>			
Client: <b>Everest Infrastructure Partners</b>	Drawn by: <b>dcampbell</b>	App'd:	
Code: <b>TIA-222-H</b>	Date: <b>02/17/23</b>	Scale: <b>NTS</b>	
Path:		Dwg No. <b>E-1</b>	

## Tower Input Data

The tower is a monopole.

This tower is designed using the TIA-222-H standard.

The following design criteria apply:

- Tower is located in Tolland County, Connecticut.
- Tower base elevation above sea level: 680.0000 ft.
- Basic wind speed of 118 mph.
- Risk Category II.
- Exposure Category C.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.0000 ft.
- Nominal ice thickness of 1.5000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56.00 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in pole design is 1.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

## Options

Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification ✓ Use Code Stress Ratios ✓ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile  Include Bolts In Member Capacity  Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric	Distribute Leg Loads As Uniform Assume Legs Pinned ✓ Assume Rigid Index Plate ✓ Use Clear Spans For Wind Area Use Clear Spans For KL/r Retension Guys To Initial Tension ✓ Bypass Mast Stability Checks ✓ Use Azimuth Dish Coefficients ✓ Project Wind Area of Appurt.  Autocalc Torque Arm Areas  Add IBC .6D+W Combination Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs	Use ASCE 10 X-Brace Ly Rules Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation ✓ Consider Feed Line Torque Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption  <div style="text-align: center; background-color: #e0e0e0; padding: 2px;"><b>Poles</b></div> ✓ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known
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## Tapered Pole Section Geometry

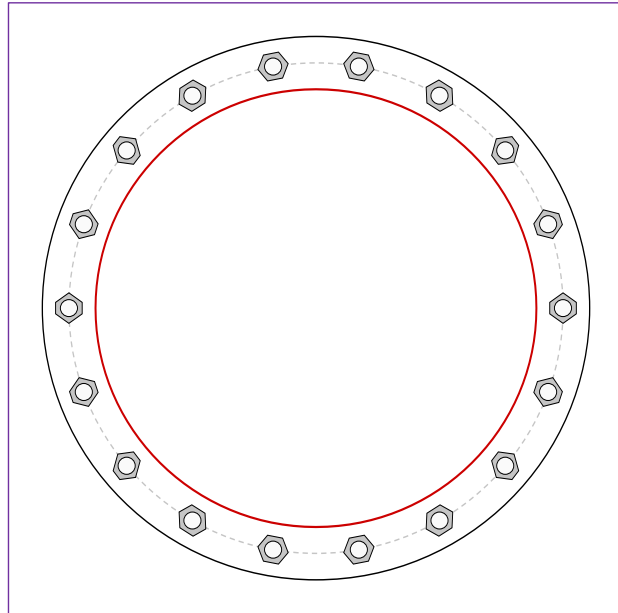


**APPENDIX B**  
**ADDITIONAL CALCULATIONS**

# Monopole Base Plate Connection

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
$l_{ar}$ (in)	0

Applied Loads	
Moment (kip-ft)	3715.03
Axial Force (kips)	50.90
Shear Force (kips)	30.92



Connection Properties	Analysis Results
-----------------------	------------------

Anchor Rod Data	
(18) 2-1/4" $\emptyset$ bolts (A687 N; $F_y=105$ ksi, $F_u=125$ ksi) on 65" BC	
Base Plate Data	
72" OD x 2.25" Plate (A572-50; $F_y=50$ ksi, $F_u=65$ ksi)	
Stiffener Data	
N/A	
Pole Data	
58" x 0.375" 18-sided pole (A572-65; $F_y=65$ ksi, $F_u=80$ ksi)	

Anchor Rod Summary			<i>(units of kips, kip-in)</i>
$P_{u,t} = 149.51$	$\phi P_{n,t} = 304.69$	<b>Stress Rating</b>	
$V_u = 1.72$	$\phi V_n = 186.38$		<b>49.1%</b>
$M_u = n/a$	$\phi M_n = n/a$		<b>Pass</b>
Base Plate Summary			
Max Stress (ksi):	26.73		(Flexural)
Allowable Stress (ksi):	45		
Stress Rating:	<b>59.4%</b>		<b>Pass</b>

Job Number:	13323-0002.001.7805
Engineer:	DLC
Date:	2/17/2023
Site Name:	Wilmington CDT
Site Number:	702498
Client Project:	CT11527B
Client Project 1:	

Version: 1.2 Effective: 7/26/2022

## PILE ANALYSIS

### STRUCTURE SETTINGS

TIA Standard: **TIA-H**  
 Capacity Normalization: **Yes** (Apply 1.05 per Rev H, 15.5)  
 BP Dist. Above Fnd.: **0.00** in  
 BC/Bearing Plate Width: **0.00** in

### PIER PROPERTIES

Pier Shape: **Square**  
 Pier Width: **5.42** ft  
 Height Above Grade: **0.50** ft  
 Total Pier Height: **0** ft  
 Mu: **3715.03** k-ft  
 ΦMn:  k-ft  
 Ratio: **N/A**

### SOIL PROPERTIES

Groundwater Depth: **99.00** ft  
 Neglected Depth: **3.50** ft  
 Soil Density: **100** pcf

### MATERIAL PROPERTIES

Concrete f'c: **3** ksi  
 Rebar Fy: **60** ksi  
 Concrete Density: **150** pcf

### BASE REACTIONS FROM TNX

Applied Moment: **3715.03** k-ft  
 Applied Axial: **50.90** kips  
 Applied Shear: **30.92** kips  
 Resultant Load Offset: **0.00** ft

### PAD PROPERTIES

Pad Shape: **Square**  
 Pad Width: **14.00** ft  
 Pad Thickness: **6.00** ft  
 Height Above Grade: **0.5** ft  
 Depth to Bottom of Pad: **5.50** ft

Location:	Width	Length
Top Bar Quantity:	<b>14</b>	
Top Bar Size #:	<b>8</b>	
Top Clear Cover:	<b>3</b>	
Bottom Bar Quantity:	<b>14</b>	
Bottom Bar Size #:	<b>8</b>	
Bottom Clear Cover:	<b>3</b>	

Use Comp Side Rebar? **No** **No**

Mu (Compression):	<b>1609.42</b>	<b>1609.42</b>	k-ft
Mu (Tension):	<b>1155.99</b>	<b>1155.99</b>	k-ft
ΦMn (Compression):	<b>3320.93</b>	<b>0.00</b>	k-ft
ΦMn (Tension):	<b>3320.93</b>	<b>0.00</b>	k-ft

Ratio (Compression):	<b>46.2%</b>	<b>N/A</b>
Ratio (Tension):	<b>33.2%</b>	<b>N/A</b>

# of Piles Considered: **8**

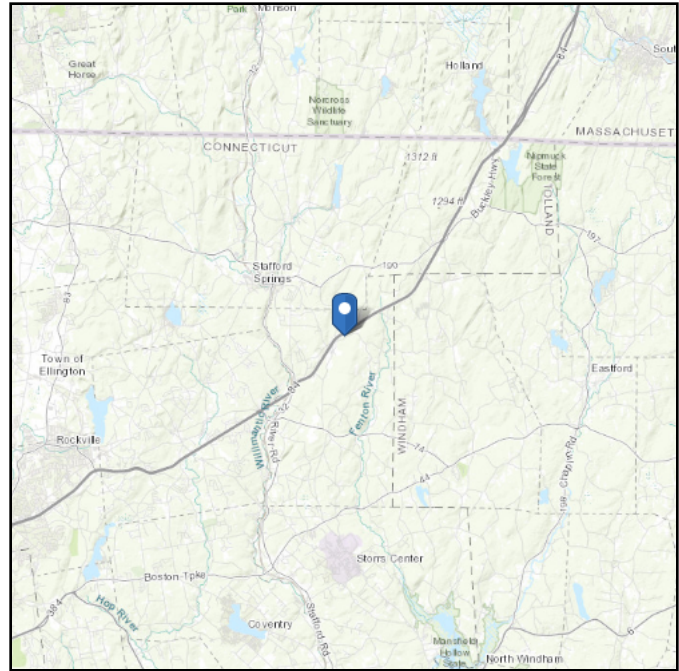
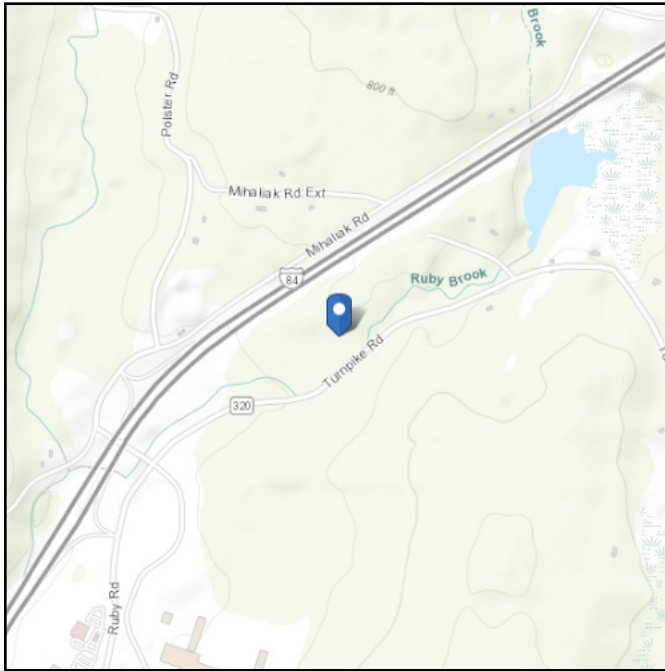
Pile #	X Coord. [ft]	Y Coord. [ft]	Pile Type	Pile Spec.	Max Net Comp. [kip]	Max Net Ten. [kip]	Comp. Override [kip]	Ten. Override [kip]	ΦPn Comp. [kip]	ΦPn Ten. [kip]	ΦPn Comp. Override [kip]	ΦPn Ten. Override [kip]	Comp. Capacity Ratio	Ten. Capacity Ratio
1	5	0	Rock Anchor	1.75" Williams R71	227.82	170.38			312.00	312.00			69.5%	52.0%
2	3.536	3.536	Rock Anchor	1.75" Williams R71	170.73	113.29			312.00	312.00			52.1%	34.6%
3	0	5	Rock Anchor	1.75" Williams R71	227.82	170.38			312.00	312.00			69.5%	52.0%
4	-3.536	3.536	Rock Anchor	1.75" Williams R71	227.85	170.41			312.00	312.00			69.6%	52.0%
5	-5	0	Rock Anchor	1.75" Williams R71	227.82	170.38			312.00	312.00			69.5%	52.0%
6	-3.536	-3.536	Rock Anchor	1.75" Williams R71	170.73	113.29			312.00	312.00			52.1%	34.6%
7	0	-5	Rock Anchor	1.75" Williams R71	227.82	170.38			312.00	312.00			69.5%	52.0%
8	3.536	-3.536	Rock Anchor	1.75" Williams R71	227.85	170.41			312.00	312.00			69.6%	52.0%

# ASCE 7 Hazards Report

**Address:**  
No Address at This Location

**Standard:** ASCE/SEI 7-16  
**Risk Category:** II  
**Soil Class:** D - Stiff Soil

**Latitude:** 41.925561  
**Longitude:** -72.252375  
**Elevation:** 680.42 ft (NAVD 88)



## Wind

### Results:

Wind Speed	118 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	98 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2

Date Accessed: Sat Feb 04 2023

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

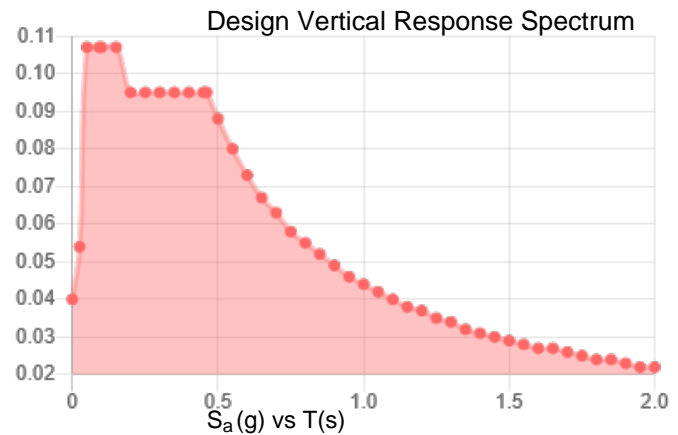
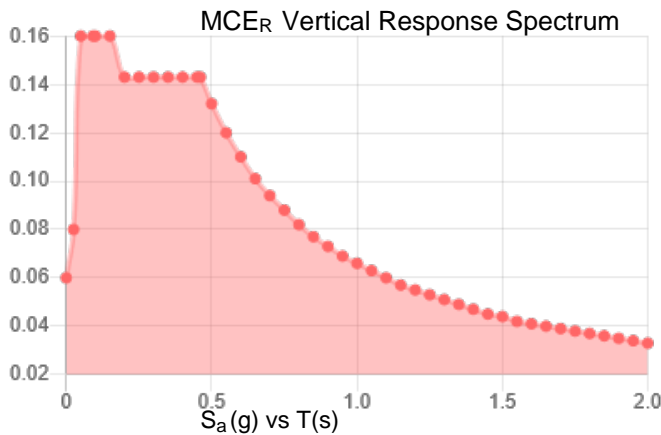
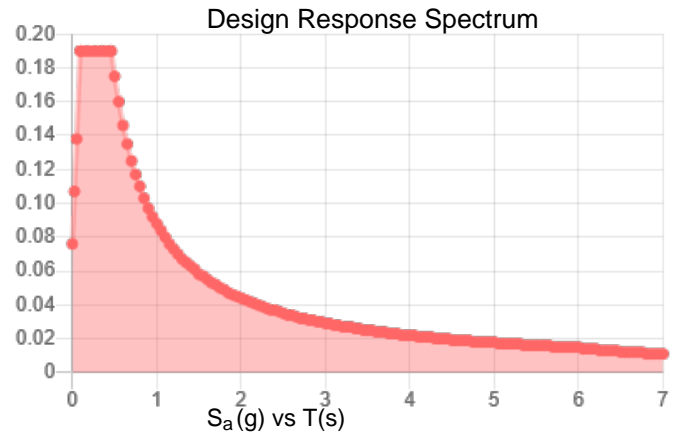
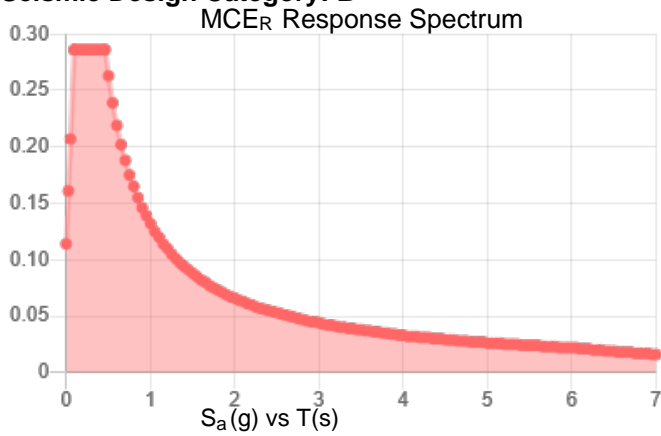
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

**Site Soil Class:**

**Results:**

$S_s$ :	0.179	$S_{D1}$ :	0.088
$S_1$ :	0.055	$T_L$ :	6
$F_a$ :	1.6	PGA :	0.095
$F_v$ :	2.4	PGA <sub>M</sub> :	0.152
$S_{MS}$ :	0.286	$F_{PGA}$ :	1.6
$S_{M1}$ :	0.132	$I_e$ :	1
$S_{DS}$ :	0.19	$C_v$ :	0.7

**Seismic Design Category: B**



**Data Accessed:** Sat Feb 04 2023

**Date Source:**

**USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.**

## Ice

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**Results:**

Ice Thickness: 1.50 in.  
Concurrent Temperature: 5 F  
Gust Speed 50 mph

**Data Source:** Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

**Date Accessed:** Sat Feb 04 2023

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

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The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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# Exhibit E

## **Mount Analysis**

Date: 1/18/2023

To: T-Mobile Northeast, LLC  
35 Griffin Road South  
Bloomfield, CT 06002

**Subject: Mount Structural Analysis Report – Replacement – Rev.1**

**T-Mobile Designation:** **Site ID:** CT11527B  
**Site Name:** CT527/ Cordless Wilington

**EFI Designation:** **Project Number:** 049.03533 - 2275026

**Site Data:** **47 Turnpike Road, Willington, CT 06279**  
**Latitude 41.92553767°, Longitude -72.25236900°**

EFI Global, Inc. is pleased to submit this “**Mount Structural Analysis Report – Replacement – Rev.1**” to determine the structural capacity of the antenna mounts utilized by T-Mobile at the above referenced site.

The purpose of the analysis is to determine acceptability of the mount stress level for the changes proposed by T-Mobile. Under the following load case we have determined the mounts to have:

Existing + Proposed Equipment **Adequate Capacity (28.1%)**  
Note: See Analysis Criteria for loading configuration

The analysis has been performed in accordance with TIA-222-H Standard and the 2022 Connecticut State Building Code (2018 IBC).

We at *EFI Global, Inc.* appreciate the opportunity of providing our continuing professional services to you. If you have any questions or need further assistance on this or any other projects, please give us a call.

Sincerely,  
EFI Global, Inc.  
License No: PEC0001245

1/18/2023  
  


Ahmet Colakoglu, PE  
Connecticut Professional Engineer  
License No: 27057



## 1) ANALYSIS CRITERIA

The analysis was performed for the existing and proposed appurtenances as specified in the loading information referenced below, and per the following loading criteria of Table 1.

**Table 1 – Loading and Analysis Criteria**

<b>Rad Center</b>	159'
<b>Structure Type</b>	Monopole
<b>Exposure Category</b>	B
<b>Ultimate Wind Speed</b>	120
<b>Ultimate Ice Loading</b>	1.50" with 50 mph Wind
<b>Risk Category</b>	II
<b>Topographic Factor</b>	Kzt = 1.0

**Table 1.1 – Existing Appurtenance Configuration**

<b>Qty</b>	<b>Model</b>
3	EMS-RR90-17-02DP – Antennas
3	LNX-6515DS-A1M – Antennas
3	Generic Twin Style 1A – PCS – TMAs

**Table 1.2 – Proposed and Final Appurtenance Configuration**

<b>Qty</b>	<b>Model</b>
3	RFS APXVAALL24_43-U-NA20 – Antennas
3	Radio 4480 B71 + B85 – RRUs*
3	Generic Twin Style 1A – PCS – TMAs*
1	Valmont/Site Pro 1 12'-6" Low Profile Platform with Twelve 2-7/8" Antenna Mounting Pipes, And Support Rail (P/N: RMQP-4096-HK)

\* To be mounted behind antennas

**Table 1.3 – Assumed Material Properties**

<b>Member Type</b>	<b>ASTM Material Designation</b>	<b>Fy (ksi)</b>	<b>Fu (ksi)</b>
Pipes	A53 Gr. B	35	60
Angles/Channels	A36	36	58
Rectangular HSS	A500 Gr. B - 46	46	58
Round HSS	A500 Gr. B - 42	42	58
Others (UNO)	A572 Gr. 50	50	65

## 2) ANALYSIS PROCEDURE

The analysis is based on the following information:

**Table 2 – Documents**

<b>Document</b>	<b>Provided By</b>	<b>Date</b>
RFDS	T-Mobile	07/07/2022
Site Photos	-	06/03/2022
Construction Drawings	EBI Consulting	04/21/2015
Structural Analysis Report	Fred A. Nudd Corporation	04/05/2015

## 2.1) Analysis Method

Risa-3D, a commercially available analysis software package, was used to create a three-dimensional model of the mount and calculate member stresses for various loading cases. Selected output from the analysis is included in the Appendix.

## 2.2) Analysis Conditions and Assumptions

- 1) The mount was built and installed in accordance with the manufacturer's specifications.
- 2) The mount has been maintained and will be maintained in accordance with the manufacturer's specifications. All structural members and connections of the mount are in good condition and can achieve theoretical strength.
- 3) The configuration of antennas is as specified in "1) Analysis Criteria".
- 4) The analysis was performed for the subject mount only. It does not include an evaluation of the other mounts or the tower, which should be analyzed by others.
- 5) The evaluation does not include any antenna rigging loads. The equipment should not be rigged using the subject antenna mount as the support.
- 6) The analysis includes a minimum 250 lbf maintenance point load at the worst-case location on the mount, as well as a minimum 500 lbf maintenance point load at each antenna location in conjunction with a 30 mph wind load.
- 7) Any steel grating represented in this model is for loading purposes only and it is not considered to provide any structural restraint or support.
- 8) Member sizes per the available mount specifications and assumed based on our experience with similar structures. Please refer to calculation output in the appendix of this report for sizes and lengths assumed.
- 9) 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.

EFI Global, Inc. (EFI), must be notified immediately if any of these assumptions are discovered to be incorrect. The results of this analysis may be affected if any of the assumptions are not valid or have been made in error.

### 3) ANALYSIS RESULTS AND CONCLUSION

The analysis results are shown on the table below.

**Table 3.1 – Mount Component Stresses vs. Capacity**

Component	% Capacity	Pass / Fail
Platform Base Tube	<20.0	Pass
Platform Base Connection Plates	<20.0	Pass
Grating Angle	<20.0	Pass
Horizontal Face Pipe	<20.0	Pass
Antenna Mount Pipe	23.8	Pass
Support Rail Pipe	28.1	Pass
Support Rail Corner Angle	27.3	Pass
Platform Kickers	<20.0	Pass

**Platform Mount:** The proposed platform mount has **adequate** capacity for the proposed changes by T-Mobile. For the code specified load combinations and as a maximum, the mount members are stressed to **28.1%** of their structural capacity.

**Note:** EFI Global, Inc. has assumed that Valmont/Site Pro 1 12'-6" Low Profile Platform with Twelve 2-7/8" Antenna Mounting Pipes, And Support Rail (P/N: RMQP-4096-HK, Specs attached) will be installed at this site prior to the equipment installation proposed in this analysis. The analysis also assumes the following:

- The base of the platform is installed at 157'-6" A.G.L.
- The Support Rail is installed 42" above the base of the platform.
- (4) 96" long 2.5 STD mount pipes are equally spaced along the face at each sector.

**APPENDIX**

**INPUT LOADS  
ANALYSIS OUTPUT  
MOUNT SPECS**

CLIENT: Foresite LLC  
 PROJECT: CT11527B  
 SUBJECT: Antenna Loads - TIA 222 H Standard

Tower Height 170.00 ft Type of Mount Platform  
 Ultimate Wind Speed, V 120 mph  
 Basic Wind Speed w/ Ice, V<sub>i</sub> 50 mph  
 Maintenance Load Factor, L<sub>FM</sub> 0.0625 Load Factor for Maint. Load Cases (Basic Wind Speed=30 mph)  
 Ultimate Ice Thickness, t<sub>i</sub> 1.5 inches

Table 2-3 Importance Factors

Structure Classification	Wind Load Without Ice	Wind Load With Ice	Ice Thickness	Earthquake
II	1	1	1	1

Table 2-4 Exposure Category Coefficients

Exposure Category	Z <sub>g</sub>	α	K <sub>zmin</sub>	K <sub>e</sub>	m
B	1200	7	0.7	0.9	0.55

Ground elevation factor, K<sub>e</sub>  
 Z<sub>s</sub> 678.57 ft  
 K<sub>e</sub> 0.98

Table 2-5 Topographic Categories  
 K<sub>zt</sub> 1.000

Figure 2-2 Rooftop Wind Speed-Up Factor  
 K<sub>s</sub> 1.00

Table 2-2 Wind Directionality Factor, K<sub>d</sub>

Structure Type	K <sub>d</sub>
Monopole	0.95 DOES NOT CHANGE

Gust Effect Factor G<sub>h</sub>

Structure Type	G <sub>h</sub>
Monopole	1.00 DOES NOT CHANGE

Shielding Factor, K<sub>a</sub>

Structure Type	K <sub>a</sub>
Monopole	0.90 DOES NOT CHANGE

Seismic Factors

S <sub>s</sub>	0.179
S <sub>1</sub>	0.055
F <sub>a</sub>	1.6
F <sub>v</sub>	2.4
R	2 Truss or Pole

CLIENT: Foresite LLC  
 PROJECT: CT11527B  
 SUBJECT: Antenna Loads - TIA 222 H Standard

Rad Center 158.00 ft

**Antenna AND Mount Without Ice**

Mounting Pole	Height (ft)	Model Number	#	Weight (lbs)	H (in)	*W (in)	D (in)	Ka	**A <sub>N</sub> (ft <sup>2</sup> )	***A <sub>T</sub> (ft <sup>2</sup> )	Aspect (FRONT)	Aspect (SIDE)	Ca (FRONT)	Ca (SIDE)	K <sub>z</sub>	q <sub>z</sub> (psf)	Pounds								
																	Wind Load (Front)	Wind Load (Side)	Dead Load	Total Wind Load (Front)	Total Wind Load (Side)	Total Dead Load	Lateral Load (Seismic)	Vertical Load (Seismic)	
Pos.1	158.00	RFS APXVAALL24_43-U-NA20	1	149.9	95.9	24.0	8.5	0.90	15.98	5.66	4.00	11.28	1.27	1.54	1.126	38.5	701.1	302.4	149.9	701	356	241	11	9	
	158.00	Ericsson Radio 4480 B71+B85	1	84.0	21.8	N/A	7.5	0.90	-	1.14	-	2.91	-	1.22	1.126	38.5	0.0	47.9	84						
	158.00	Generic Twin Style 1A - PCS	1	7.0	6.3	N/A	3.1	0.90	-	0.14	-	2.03	-	1.20	1.126	38.5	0.0	5.6	7						
		Empty		0.0	-	-	-	0.90	-	-	-	-	-	-	-	-	-	0.0	0.0	0					
		Empty		0.0	-	-	-	0.90	-	-	-	-	-	-	-	-	-	0.0	0.0	0	351	178	121	6	5
		Empty		0.0	-	-	-	0.90	-	-	-	-	-	-	-	-	-	0.0	0.0	0	0	0	0	0	
		Empty		0.0	-	-	-	0.90	-	-	-	-	-	-	-	-	-	0.0	0.0	0					
		Empty		0.0	-	-	-	0.90	-	-	-	-	-	-	-	-	-	0.0	0.0	0					
		Empty		0.0	-	-	-	0.90	-	-	-	-	-	-	-	-	-	0.0	0.0	0					
		Empty		0.0	-	-	-	0.90	-	-	-	-	-	-	-	-	-	0.0	0.0	0	0	0	0	0	

\* Enter N/A in the W column for front shielded apertures.

\*\* A<sub>N</sub> is the product of H and W

\*\*\* A<sub>T</sub> is the product of H and D

DL #REF!

Mount	Height (ft)	Member	*L (in)	D (in)	Weight (lb/ft)	*** Ca	K <sub>z</sub>	q <sub>z</sub> (psf)	Wind Load (PLF)	Lateral Load (Seismic)	Vertical Load (Seismic)
	158.00	3.0 STD Pipe	12.00	3.50	0.00	1.20	1.126	34.6	12	-	-
	158.00	2.5 STD Pipe	12.00	2.88	0.00	1.20	1.126	34.6	10	-	-
	158.00	2.0 STD Pipe	12.00	2.38	0.00	1.20	1.126	34.6	8	-	-
	158.00	1/2" SR	0.00	0.50	0.00	-	-	-	-	-	-
	158.00	(L4x4)	0.00	4.00	4.00	-	-	-	-	-	-
	158.00	(L2.5x2.5)	12.00	2.50	2.50	2.00	1.126	34.6	14	-	-
	158.00	(L2x2)	12.00	2.00	2.00	2.00	1.126	34.6	12	-	-
	158.00	Plate (PL6x3/8)	12.00	6.00	0.38	2.00	1.126	34.6	35	-	-
	158.00	Plate (PL6x1/2)	12.00	6.00	0.50	2.00	1.126	34.6	35	-	-
	158.00	HSS4x4	12.00	4.00	4.00	2.00	1.126	34.6	23	-	-
	158.00	HSS4X4X4	0.00	4.00	4.00	-	-	-	-	-	-
	158.00	Double Angle (LL2.5x2.5x3x3)	12.00	5.00	2.50	2.00	1.126	34.6	29	-	-
	158.00	Channel (C5X4X0.375)	0.00	4.00	5.00	-	-	-	-	-	-
	158.00	Channel (2.75x2)	0.00	2.75	2.00	-	-	-	-	-	-

\* The dimension L is the longest dimension of the member

\*\* The dimension W is the height or width of the member that resists wind load

\*\*\* Ca will equal 1.2 for round members and 2.0 for flat members

CLIENT: Foresite LLC  
 PROJECT: CT11527B  
 SUBJECT: Antenna Loads - TIA 222 H Standard

ti (in) 1.754307 Kiz 1.1695379 reduction 0.17361

**Antenna AND Mount With Ice**

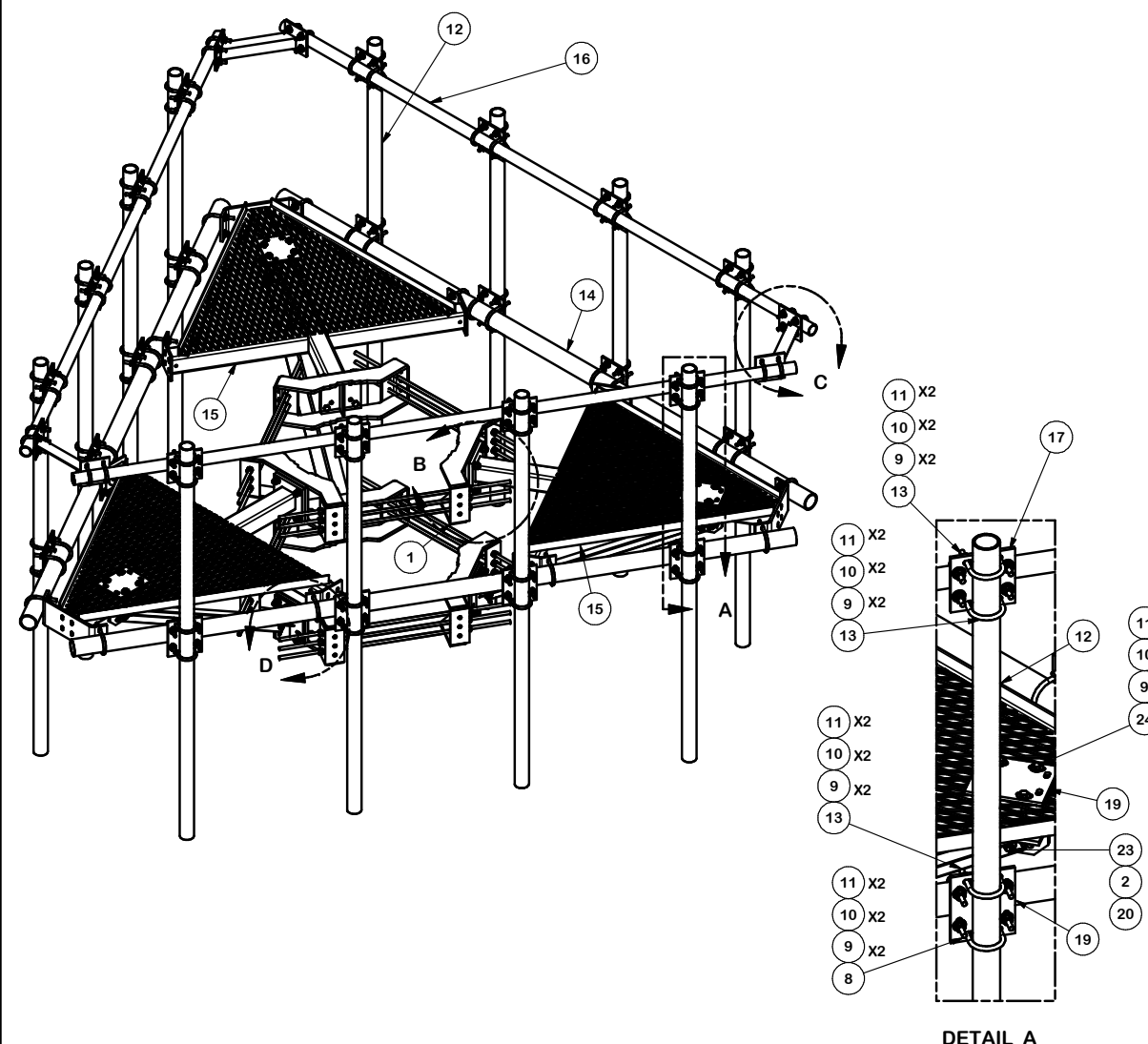
Mounting Pole	Height (ft)	Model Number	#	H (in)	W (in)	D (in)	Ka	*A <sub>N</sub> (ft <sup>2</sup> )	*A <sub>T</sub> (ft <sup>2</sup> )	*Volume Ice (ft <sup>3</sup> )	*Weight Ice (lbs)	**Ca (FRONT)	**Ca (SIDE)	Kz	q <sub>z</sub> (psf)	Pounds							
																Ice Wind Load (Front)	Ice Wind Load (Side)	Combined Wind Load (Front)	Combined Wind Load (Side)	Ice Dead Load	**Total Wind Load (Front)	**Total Wind Load (Side)	Total Ice Load
Pos.1	158.00	RFS APXVAALL24_43-U-NA20	1	95.9	24.0	8.5	0.90	3.01	2.63	7.68	430.21	0.72	0.83	1.126	6.7	13.1	13.1	134.8	65.6	430	135	80	539
	158.00	Ericsson Radio 4480 B71+B85	1	21.8	15.7	7.5	0.90	-	0.80	1.61	90.25	0.70	0.70	1.126	6.7	0.0	3.4	0.0	11.7	90			
	158.00	Generic Twin Style 1A - PCS	1	6.3	7.7	3.1	0.90	-	0.31	0.33	18.67	0.70	0.70	1.126	6.7	0.0	1.3	0.0	2.3	19			
		Empty		-	-	-	0.90	-	-	-	0.00	-	-	-	-	0.0	0.0	0.0	0.0	0			
		Empty		-	-	-	0.90	-	-	-	0.00	-	-	-	-	0.0	0.0	0.0	0.0	0	68	40	270
		Empty		-	-	-	0.90	-	-	-	0.00	-	-	-	-	0.0	0.0	0.0	0.0	0	0	0	0
		Empty		-	-	-	0.90	-	-	-	0.00	-	-	-	-	0.0	0.0	0.0	0.0	0	0	0	0
		Empty		-	-	-	0.90	-	-	-	0.00	-	-	-	-	0.0	0.0	0.0	0.0	0	0	0	0
		Empty		-	-	-	0.90	-	-	-	0.00	-	-	-	-	0.0	0.0	0.0	0.0	0	0	0	0
		Empty		-	-	-	0.90	-	-	-	0.00	-	-	-	-	0.0	0.0	0.0	0.0	0	0	0	0

\* A<sub>N</sub>, A<sub>T</sub>, Volume Ice and Weight Ice are calculated per unit  
 \*\* Ca will equal 1.2 for all ice load calculations

Mount	Height (ft)	Member	*L (in)	**W (in)	D (in)	***A <sub>N</sub> (ft <sup>2</sup> )	Volume Ice (ft <sup>3</sup> )	Weight Ice (lbs)	****Ca (FRONT)	Kz	q <sub>z</sub> (psf)	PLF		
												Ice Wind Load (Front)	Combined Wind Load (Front)	Ice Dead Load
	158.00	3.0 STD Pipe	12.00	3.50	0.00	0.46	0.20	11.26	1.20	1.126	6.0	3.3	5.4	11
	158.00	2.5 STD Pipe	12.00	2.88	0.00	0.45	0.18	9.93	1.20	1.126	6.0	3.2	5.0	10
	158.00	2.0 STD Pipe	12.00	2.38	0.00	0.44	0.16	8.85	1.20	1.126	6.0	3.1	4.6	9
	158.00	1/2" SR	0.00	0.50	0.00	-	-	-	-	-	-	-	-	-
	158.00	(L4x4)	0.00	4.00	4.00	-	-	-	-	-	-	-	-	-
	158.00	(L2.5x2.5)	12.00	2.50	2.50	0.44	0.12	6.82	1.20	1.126	6.0	3.2	5.7	7
	158.00	(L2x2)	12.00	2.00	2.00	0.43	0.10	5.46	1.20	1.126	6.0	3.1	5.1	5
	158.00	Plate (PL6x3/8)	12.00	6.00	0.38	0.52	0.32	17.68	1.20	1.126	6.0	3.8	9.8	18
	158.00	Plate (PL6x1/2)	12.00	6.00	0.50	0.52	0.32	17.99	1.20	1.126	6.0	3.8	9.8	18
	158.00	HSS4x4	12.00	4.00	4.00	0.48	0.39	22.11	1.20	1.126	6.0	3.4	7.4	22
	158.00	HSS4X4X4	0.00	4.00	4.00	-	-	-	-	-	-	-	-	-
	158.00	Double Angle (LL2.5x2.5x3x3)	12.00	5.00	2.50	0.50	0.30	17.06	1.20	1.126	6.0	3.6	8.6	17
	158.00	Channel (C5X4X0.375)	0.00	4.00	5.00	-	-	-	-	-	-	-	-	-
	158.00	Channel (2.75x2)	0.00	2.75	2.00	-	-	-	-	-	-	-	-	-

\* The dimension L is the longest dimension of the member  
 \*\* The dimension W is the height or width of the member that resists wind load  
 \*\*\* A<sub>N</sub> is the area of ice built up on the LW plane  
 \*\*\*\* Ca will equal 1.2 for all ice load calculations





PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	6	X-LWRM	RING MOUNT WELDMENT		68.81	412.85
2	66	G58LW	5/8" HDG LOCKWASHER		0.03	1.72
3	60	A58NUT	5/8" HDG A325 HEX NUT		0.13	7.79
4	18	G58R-24	5/8" x 24" THREADED ROD (HDG.)		2.09	37.63
5	18	G58R-48	5/8" x 48" THREADED ROD (HDG.)		4.18	75.27
6	24	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2 3/4 in	0.36	8.54
7	24	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.82
8	36	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)		0.83	29.82
9	264	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	9.00
10	252	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	3.50
11	252	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	18.05
12	12	P3096	2-7/8" X 96" (2-1/2" SCH 40) GALVANIZED PIPE	96 in	49.24	590.88
13	48	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.70	33.45
14	3	P3150	3-1/2" X 150" (3" SCH 40) GALVANIZED PIPE	150 in	94.80	284.40
15	3	X-SV196	LOW PROFILE PLATFORM CORNER		212.10	636.31
16	3	P2150	2-3/8" O.D. X 150" SCH 40 GALVANIZED PIPE	150 in	45.77	137.31
17	12	SCX2	CROSSOVER PLATE	7 in	4.80	57.56
18	36	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	22.51
19	15	SCX4	CROSSOVER PLATE	8 1/2 in	6.02	90.32
20	6	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	0.78
21	6	X-253993	PLATFORM REINFORCEMENT KIT ANGLE	52 25/32 in	14.33	85.99
22	6	X-TBW	T-BRACKET WELDMENT		13.60	81.60
23	6	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	1.62
24	12	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	5 1/2 in	0.41	4.91
25	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
					TOTAL WT. #	2669.03

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
C	RELOCATED MOUNT PIPE POSITIONS	4488	JET	5/23/2021
B	CHANGED X-253992 TO X-TBW		CEK	9/20/2018
A	REPLACED HCP WITH X-AHCP	4488	CEK	7/14/2014
REVISION HISTORY				

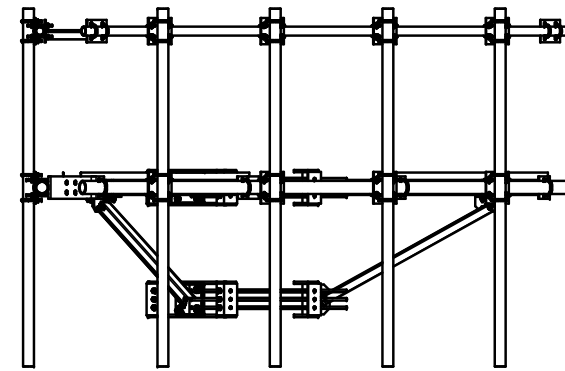
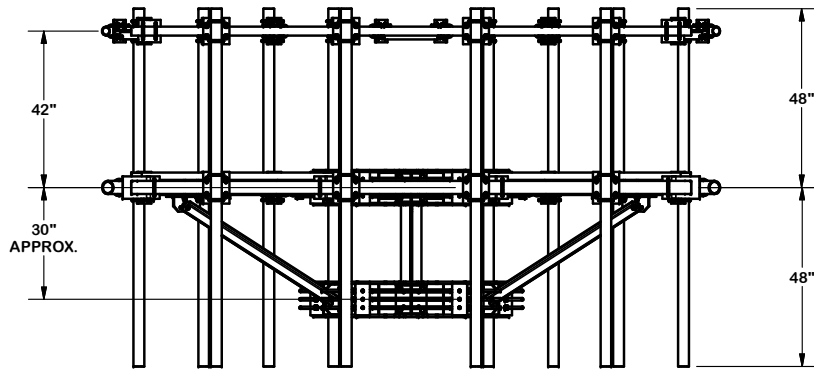
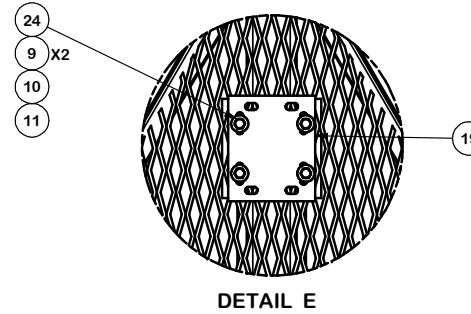
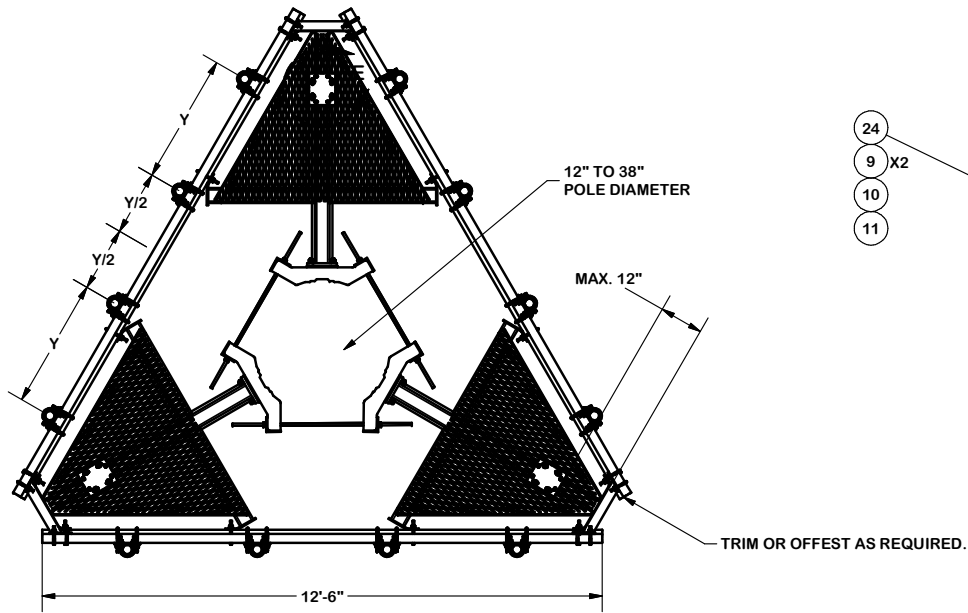
**TOLERANCE NOTES**

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
 SAWED, SHEARED AND GAS CUT EDGES ( $\pm 0.030"$ )  
 DRILLED AND GAS CUT HOLES ( $\pm 0.030"$ ) - NO CONING OF HOLES  
 LASER CUT EDGES AND HOLES ( $\pm 0.010"$ ) - NO CONING OF HOLES  
 BENDS ARE  $\pm 1/2$  DEGREE  
 ALL OTHER MACHINING ( $\pm 0.030"$ )  
 ALL OTHER ASSEMBLY ( $\pm 0.060"$ )

PROPRIETARY NOTE:  
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION 12' 6" LOW PROFILE PLATFORM WITH TWELVE 2-7/8" ANTENNA MOUNTING PIPES, AND SUPPORT RAIL	
CPD NO. 4488	DRAWN BY CEK 3/24/2014
CLASS 81	SUB 02
DRAWING USAGE CUSTOMER	CHECKED BY BMC 7/14/2014
ENG. APPROVAL	

 <b>A valmont COMPANY</b>	Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX
	Engineering Support Team: 1-888-753-7446
PART NO. <b>RMQP-4096-HK</b>	PAGE <b>3</b>
DWG. NO. <b>RMQP-4096-HK</b>	



REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
C	RELOCATED MOUNT PIPE POSITIONS	4488	JET	5/23/2021
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A	REPLACED HCP WITH X-AHCP	4488	CEK	7/14/2014
REVISION HISTORY				

**TOLERANCE NOTES**

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
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 ALL OTHER ASSEMBLY ( $\pm 0.060"$ )

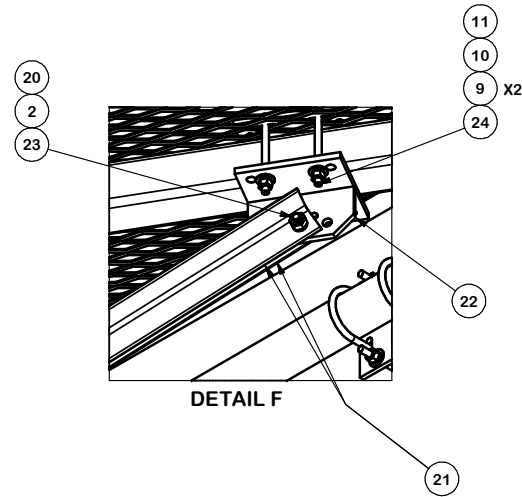
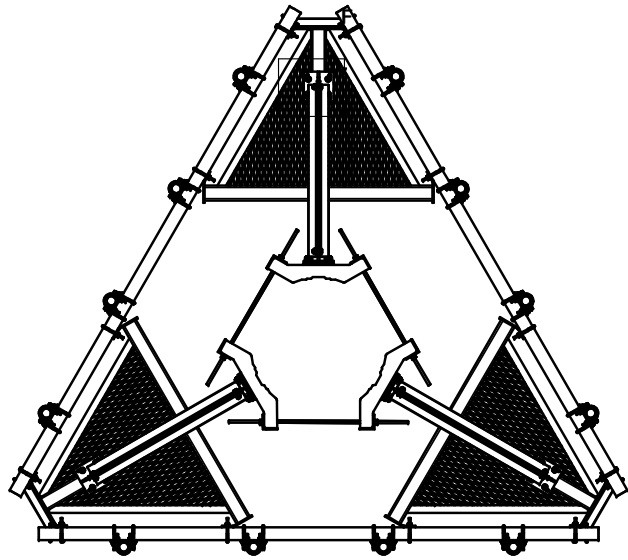
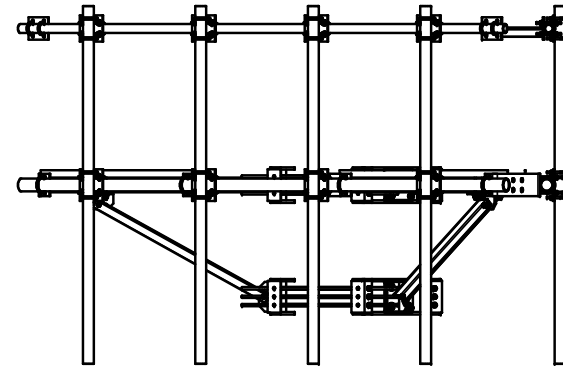
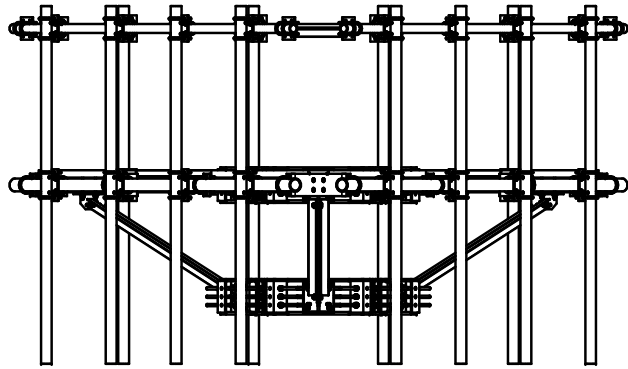
PROPRIETARY NOTE:  
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DESCRIPTION  
**12' 6" LOW PROFILE PLATFORM  
 WITH TWELVE 2-7/8" ANTENNA MOUNTING  
 PIPES, AND SUPPORT RAIL**

CPD NO. 4488	DRAWN BY CEK 3/24/2014	ENG. APPROVAL
CLASS SUB 81 02	DRAWING USAGE CUSTOMER	CHECKED BY BMC 7/14/2014

**SITE PRO 1**  
 A valmont COMPANY  
 Locations:  
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PART NO. <b>RMQP-4096-HK</b>	PAGE 2 OF 3
DWG. NO. <b>RMQP-4096-HK</b>	



DETAIL F

**TOLERANCE NOTES**

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
 SAWED, SHEARED AND GAS CUT EDGES ( $\pm 0.030"$ )  
 DRILLED AND GAS CUT HOLES ( $\pm 0.030"$ ) - NO CONING OF HOLES  
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 BENDS ARE  $\pm 1/2$  DEGREE  
 ALL OTHER MACHINING ( $\pm 0.030"$ )  
 ALL OTHER ASSEMBLY ( $\pm 0.060"$ )

PROPRIETARY NOTE:  
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DESCRIPTION  
 12' 6" LOW PROFILE PLATFORM  
 WITH TWELVE 2-7/8" ANTENNA MOUNTING  
 PIPES, AND SUPPORT RAIL



Locations:  
 New York, NY  
 Atlanta, GA  
 Los Angeles, CA  
 Plymouth, IN  
 Salem, OR  
 Dallas, TX

Engineering Support Team:  
 1-888-753-7446

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REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
C	RELOCATED MOUNT PIPE POSITIONS	4488	JET	5/23/2021
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REVISION HISTORY				

CPD NO. 4488	DRAWN BY CEK 3/24/2014	ENG. APPROVAL
CLASS 81	SUB 02	DRAWING USAGE CUSTOMER
CHECKED BY BMC 7/14/2014		

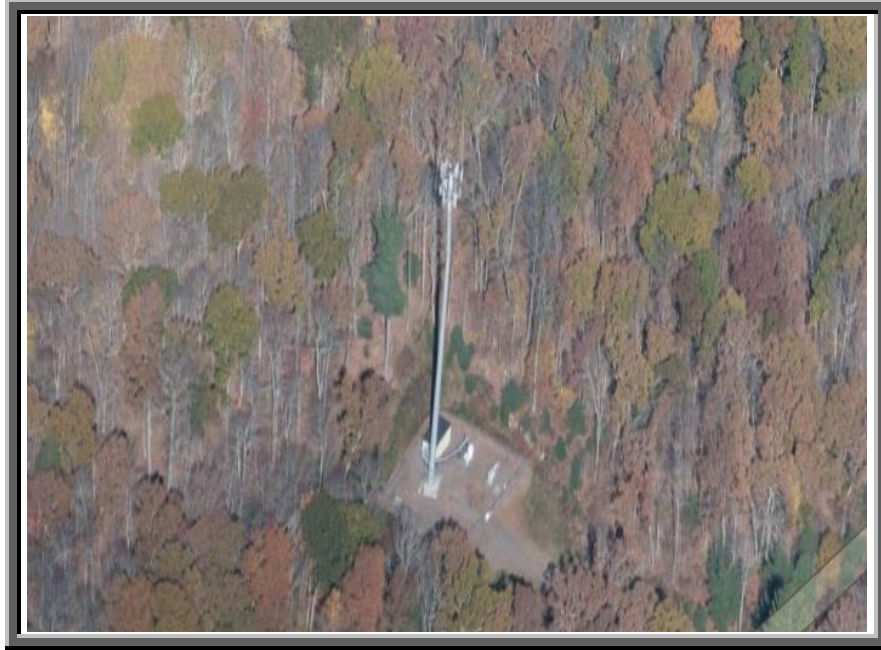
PART NO. RMQP-4096-HK	3 OF 3
DWG. NO. RMQP-4096-HK	

# Exhibit F

## **Power Density/RF Emissions Report**



## Radio Frequency Theoretical Modeling Report



### T-Mobile Wireless Tower Facility

**Site ID:** CT11527B

**Report Date:** 2/2/2023

**Site Name:** CT527/Cordless Wilington

**Address:** 47 Turnpike Road, Willington,  
CT 06279

**County:** Tolland

**Report Author:** Mia Stephens

**Latitude:** 41.925538

**Report Reviewer:** Ryan McManus

**Longitude:** -72.252369

**FHPN:** 230101

### Compliance Status:

T-Mobile will be compliant with FCC Regulations upon installation of recommended mitigation measures

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# 1.0 Introduction

Fox Hill Telecom, Inc. has been contracted by T-Mobile to produce a theoretical assessment of the potential radio frequency emissions at the proposed T-Mobile tower site. FCC OET Bulletin 65 – Edition 97-01 recommends that theoretical calculations should be done to yield a worst-case scenario. This theoretical analysis will provide a worst-case assessment of potential emissions and will assume all transmitters are operating at highest capacity and power. This will provide T-Mobile with a guideline of how to proceed with mitigating the site to ensure the site will be compliant with FCC regulations at any instance.

Many licensed wireless system operators are required to perform periodic assessments of potential impacts to humans due to radio frequency emissions from active transmitters at the site. The Federal Communications Commission (“FCC”) considers two levels of standards based on access controls to the site and the level of knowledge of the effects of radio frequency to humans.

A controlled/occupational environment assumes that anyone accessing the site is fully trained in RF safety and is aware of the effects of the exposure to radio frequency emissions to humans.

An uncontrolled/general population environment assumes that access is not restricted to RF trained individuals and other members of the general population may be able to access the site for any reason, occupation or otherwise.

# 2.0 Site Information

The existing site is located on a 170’ tower located at 47 Turnpike Road in Willington, CT.

# 3.0 Results Snapshot

Based on the theoretical modeling analysis performed, there are no areas that exceed the FCC's General Public and/or Occupational limits at this site. T-Mobile must ensure proper mitigation is installed at the site in order to bring the site into compliance.

Table 1.0 below provides a snapshot of the highest T-Mobile and composite emissions at each pertinent location at and around the site.

T-Mobile MPE Contribution		
	% FCC General Public	% FCC Occupational
Ground Level	0.03	0.006
Composite MPE Contribution		
Ground Level	0.05	0.01

Table 1.0 MPE Contribution

Based on the data provided by T-Mobile, there are antennas from other wireless providers on site. These other carrier antennas were also included in the modeling analysis using assumed values based on existing industry standards.

Section 6.0 will show the areas of exposure, if any, at each T-Mobile Sector.

A site scaled map can be found in section 4.0 which details the locations where mitigation should be installed to bring the site into compliance with FCC regulations.

Below is a summary of **recommended mitigation** at this T-Mobile facility.

**Access Point:**

- No signage required

**Sector A:**

- No signage required

**Sector B:**

- No signage required

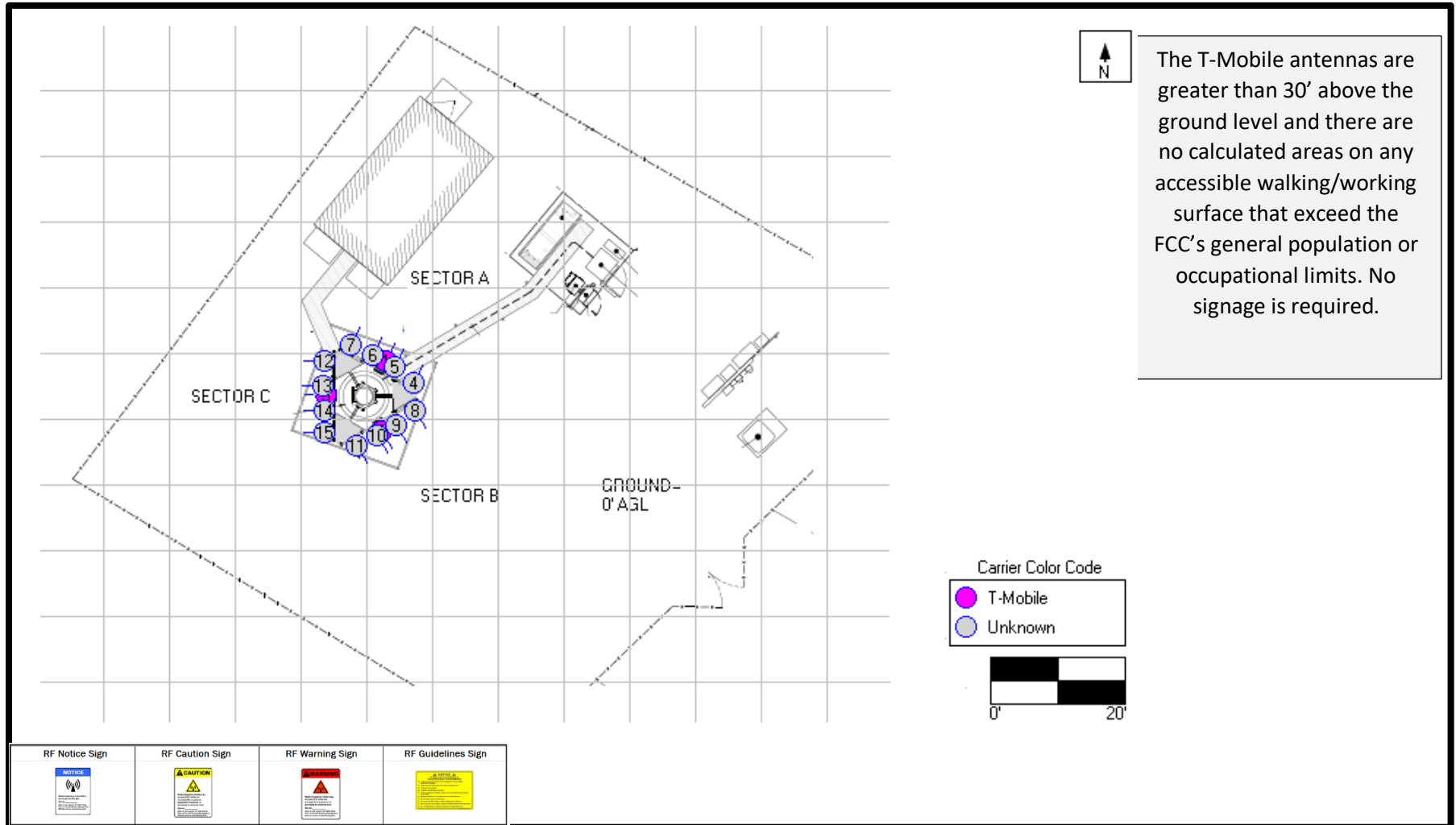
**Sector C:**

- No signage required

The T-Mobile antennas are greater than 30' above the ground level and there are no calculated areas on any accessible walking/working surface that exceed the FCC's general population or occupational limits, therefore no mitigation is required on this site.



# 4.0 Site Map



## 5.0 Antenna Inventory

Antenna ID	Operator	Antenna Make and Model	Type	Freq (MHz)	TX Power (Watts)	# of TX	ERP (Watts)	Azimuth (°)	Gain (dBd)	BW (°)	Length (ft)	x	y
1	T-Mobile	RFS - APXVAALL24_43-U-NA20	Panel	LTE / 5G NR 600	80	2	3156	30	12.95	67	7.99	36.4	45.2
1	T-Mobile	RFS - APXVAALL24_43-U-NA20	Panel	LTE 700	40	2	1854	30	13.65	62	7.99	36.4	45.2
1	T-Mobile	RFS - APXVAALL24_43-U-NA20	Panel	LTE 1900	40	4	5610.17	30	15.45	64	7.99	36.4	45.2
1	T-Mobile	RFS - APXVAALL24_43-U-NA20	Panel	GSM 1900	15	1	526.03	30	15.45	64	7.99	36.4	45.2
2	T-Mobile	RFS - APXVAALL24_43-U-NA20	Panel	LTE / 5G NR 600	80	2	3156	150	12.95	67	7.99	35.7	34.4
2	T-Mobile	RFS - APXVAALL24_43-U-NA20	Panel	LTE 700	40	2	1854	150	13.65	62	7.99	35.7	34.4
2	T-Mobile	RFS - APXVAALL24_43-U-NA20	Panel	LTE 1900	40	4	5610.17	150	15.45	64	7.99	35.7	34.4
2	T-Mobile	RFS - APXVAALL24_43-U-NA20	Panel	GSM 1900	15	1	526.03	150	15.45	64	7.99	35.7	34.4
3	T-Mobile	RFS - APXVAALL24_43-U-NA20	Panel	LTE / 5G NR 600	80	2	3156	270	12.95	67	7.99	27.2	40
3	T-Mobile	RFS - APXVAALL24_43-U-NA20	Panel	LTE 700	40	2	1854	270	13.65	62	7.99	27.2	40
3	T-Mobile	RFS - APXVAALL24_43-U-NA20	Panel	LTE 1900	40	4	5610.17	270	15.45	64	7.99	27.2	40
3	T-Mobile	RFS - APXVAALL24_43-U-NA20	Panel	GSM 1900	15	1	526.03	270	15.45	64	7.99	27.2	40
4	Unknown	Unknown	Panel	850	100	1	1419	30	11.52	61	4.00	40.7	41.8
5	Unknown	Unknown	Panel	1900	100	1	2916.02	30	14.65	65	4.00	37.8	44.3
6	Unknown	Unknown	Panel	850	100	1	1419	30	11.52	61	4.00	34.4	46.1
7	Unknown	Unknown	Panel	1900	100	1	2916.02	30	14.65	65	4.00	31	47.6
8	Unknown	Unknown	Panel	850	100	1	1419	150	11.52	61	4.00	40.9	37.5

Antenna ID	Operator	Antenna Make and Model	Type	Freq (MHz)	TX Power (Watts)	# of TX	ERP (Watts)	Azimuth (°)	Gain (dBd)	BW (°)	Length (ft)	x	y
9	Unknown	Unknown	Panel	1900	100	1	2916.02	150	14.65	65	4.00	38	35.3
10	Unknown	Unknown	Panel	850	100	1	1419	150	11.52	61	4.00	35.1	33.7
11	Unknown	Unknown	Panel	1900	100	1	2916.02	150	14.65	65	4.00	31.9	32.1
12	Unknown	Unknown	Panel	850	100	1	1419	270	11.52	61	4.00	27	45.2
13	Unknown	Unknown	Panel	1900	100	1	2916.02	270	14.65	65	4.00	26.7	41.3
14	Unknown	Unknown	Panel	850	100	1	1419	270	11.52	61	4.00	27	37.5
15	Unknown	Unknown	Panel	1900	100	1	2916.02	270	14.65	65	4.00	27	34.2

Antenna ID	Operator	Antenna Centerline AGL (ft)	Ant Z Value Ground Level (ft)
1	T-Mobile	159.00	155.00
2	T-Mobile	159.00	155.00
3	T-Mobile	159.00	155.00
4	Unknown	170.00	168.00
5	Unknown	170.00	168.00
6	Unknown	170.00	168.00
7	Unknown	170.00	168.00
8	Unknown	170.00	168.00
9	Unknown	170.00	168.00
10	Unknown	170.00	168.00
11	Unknown	170.00	168.00
12	Unknown	170.00	168.00
13	Unknown	170.00	168.00
14	Unknown	170.00	168.00
15	Unknown	170.00	168.00

\*The Z values refer to the distance from the bottom of the antenna to the referenced level.

## 6.0 Results and Compliance Recommendations

At the **ground level (0' AGL)**, the maximum power density value (% MPE) calculated for T-Mobile's antennas is **0.03 %** of the FCC's allowable limit for General Population exposure to radio frequency emissions (**0.01 %** of the FCC's allowable Occupational limit).

T-Mobile will be compliant with the installation of recommended mitigation measures. Each sector is broken down below.

### Sector A:

The maximum power density value (% MPE) calculated for **T-Mobile's Sector A antennas** on the ground level is **0.03 %** of the FCC's allowable limit for General Population exposure to radio frequency emissions (**0.01 %** of the FCC's allowable Occupational limit).

There are no accessible areas at any forementioned level that exceed the FCC's General Population or Occupational limit for exposure to radio frequency emissions in front of the Sector A antennas. All areas of concern extend into free space.

### Sector B:

The maximum power density value (% MPE) calculated for **T-Mobile's Sector B antennas** on the ground level is **0.03 %** of the FCC's allowable limit for General Population exposure to radio frequency emissions (**0.01 %** of the FCC's allowable Occupational limit).

There are no accessible areas at any forementioned level that exceed the FCC's General Population or Occupational limit for exposure to radio frequency emissions in front of the Sector B antennas. All areas of concern extend into free space.

### Sector C:

The maximum power density value (% MPE) calculated for **T-Mobile's Sector C antennas** on the ground level is **0.03 %** of the FCC's allowable limit for General Population exposure to radio frequency emissions (**0.01 %** of the FCC's allowable Occupational limit).

There are no accessible areas at any forementioned level that exceed the FCC's General Population or Occupational limit for exposure to radio frequency emissions in front of the Sector C antennas. All areas of concern extend into free space.

The FCC mandates that if a site is found to be out of compliance with regard to emissions that any system operator contributing 5% or more to areas exceeding the FCC's allowable limits, as outlined in this report, will be responsible for bringing the site into compliance.

There are no areas of exposure in front of the unknown carrier antennas.

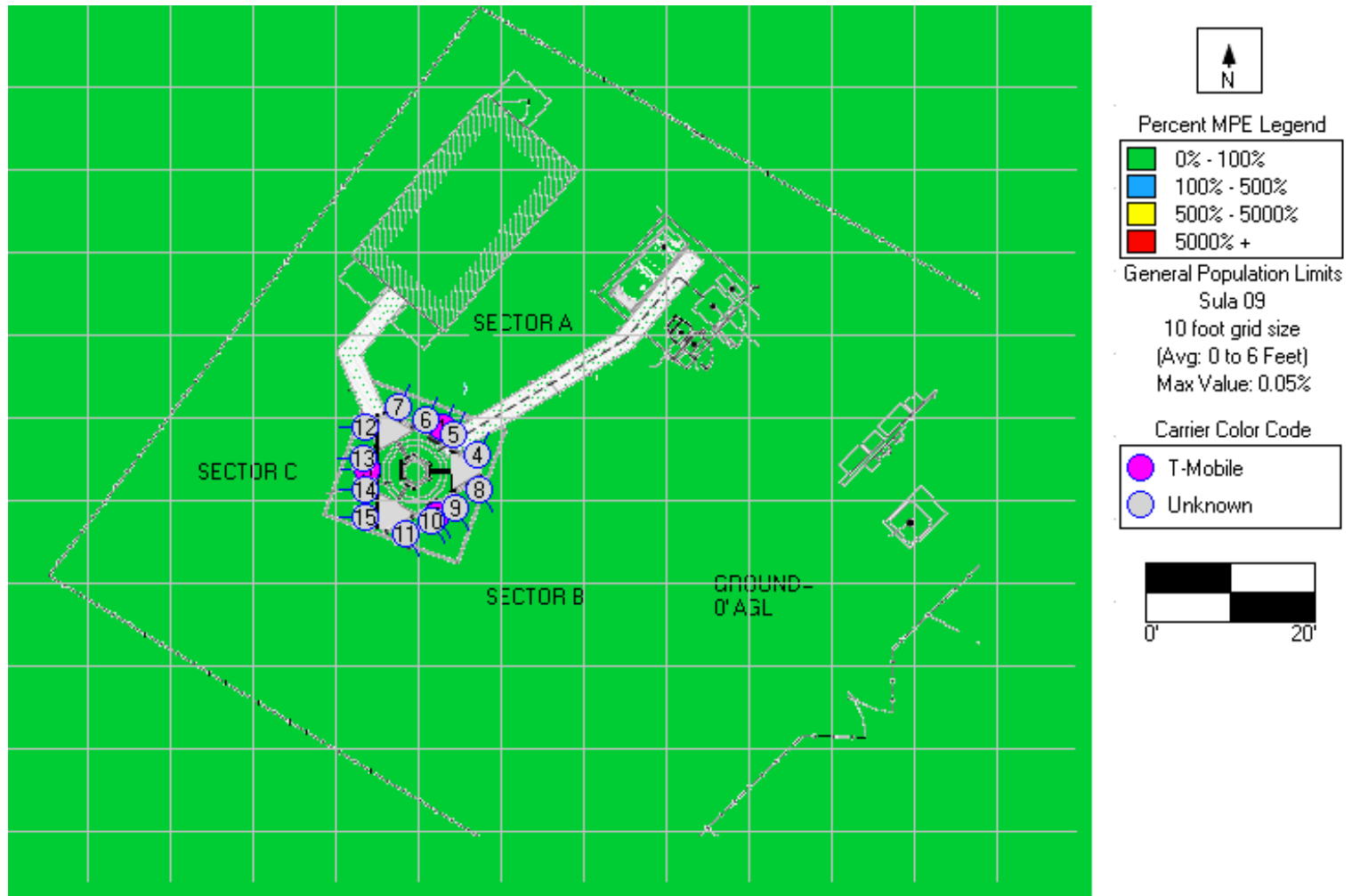
At the **ground level (0' AGL)**, the composite maximum power density value (% MPE) calculated for the antennas is **0.05 %** of the FCC's allowable limit for General Population exposure to radio frequency emissions (**0.01 %** of the FCC's allowable Occupational limit).

## MPE Contribution T-Mobile Antennas Ground Level (0' AGL)



The anticipated % MPE for the T-Mobile antennas at the **ground level (0')** is **0.03 %** of the FCC's allowable limit for General Population

# MPE Contribution All Antennas Ground Level (0' AGL)



The anticipated composite % MPE for the antennas at the **ground level (0')** is **0.05 %** of the FCC's allowable limit for General Population



## 7.0 Conclusion

Fox Hill Telecom performed a theoretical modeling analysis for the existing tower located at 47 Turnpike Road in Willington, CT.

Based on the calculations, T-Mobile is in compliance with FCC Regulations. No further action is required by T-Mobile.

### **Access Point:**

- No signage required

### **Sector A:**

- No signage required

### **Sector B:**





- No signage required

### **Sector C:**

- No signage required

The T-Mobile antennas are greater than 30' above the ground level and there are no calculated areas on any accessible walking/working surface that exceed the FCC's general population limit or occupational limits, therefore no mitigation is required on this site.

## 8.0 T-Mobile Signage Policy

Sign	Description
	<p style="text-align: center;"><b>RF Guidelines Sign</b></p> <p>Gives guidelines on how to proceed in areas that may exceed either the FCC's General Population or Occupational emissions limits.</p>
	<p style="text-align: center;"><b>Blue Notice Sign</b></p> <p>Used to inform individuals that they are entering an area that may exceed the FCC's General Population limits. Must be placed anywhere the public can get within 30 feet vertically or horizontally of an antenna.</p>
	<p style="text-align: center;"><b>Yellow Caution Sign</b></p> <p>Used to inform individuals that they are entering an area that may exceed the either the FCC's General Population or Occupational Emissions limits. It must be placed so it is visible from all approachable sides. It must also be just outside of the area predicted to exceed the MPE limits so it can be read without standing within the affected area.</p>
	<p style="text-align: center;"><b>Red Warning Sign</b></p> <p>Used to inform individuals that they are entering an area that may exceed 5x the FCC's Occupational emissions limit. It must be placed so it is visible from all approachable sides. It must also be just outside of the area predicted to exceed the MPE limits so it can be read without standing within the affected area.</p>

## 9.0 FCC Guidelines

All power density values used in this report were 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 public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

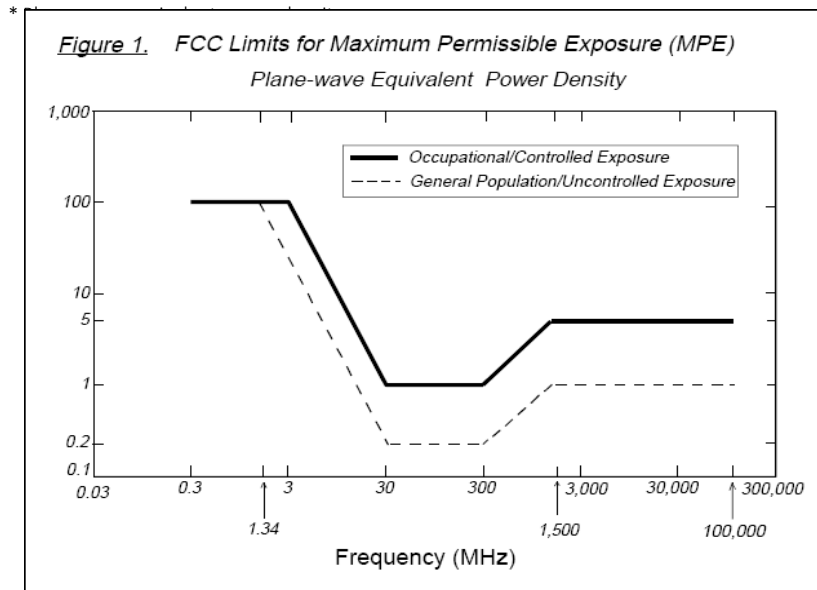
Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ). The general population exposure limit for the 700 and 800 MHz Bands is approximately 467  $\mu\text{W}/\text{cm}^2$  and 567  $\mu\text{W}/\text{cm}^2$  respectively, and the general population exposure limit for the 1900 MHz PCS and 2100 MHz AWS 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 percent of MPE rather than power density.

Occupational/Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure, have been properly trained in RF safety 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, have been trained in RF safety and can exercise control over his or her exposure by leaving the area or by some other appropriate means. The Occupational/Controlled exposure limits all utilized frequency bands is five (5) times the FCC's General Public / Uncontrolled exposure limit.

Additional details can be found in FCC OET 65.

Table 1: Limits for Maximum Permissible Exposure (MPE)				
(A) Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time [E] <sup>2</sup> , [H] <sup>2</sup> , or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f <sup>2</sup> )*	6
30-300	61.4	0.163	1.0	6
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Public/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time [E] <sup>2</sup> , [H] <sup>2</sup> , or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1,500	--	--	f/1,500	3
1,500-100,000	--	--	1.0	30

f = Frequency in (MHz)



## 10.0 Calculation Methodology

NSS has performed theoretical calculations on all transmission equipment located on this facility. All calculations have been performed using Waterford Consultants' RoofMaster™ 2015 Version 19.9.7.19. RoofMaster™ employs several power density prediction models based on the computational approaches set forth in the Federal Communications Commission's Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields, OET Bulletin 65 utilizing both cylindrical and far-field modelling (calculated using antenna manufacturers pattern data).

### The Cylindrical Model Implementation (Sula9)

In OET-65, the Cylindrical Model is presented as an approach to determine the spatially averaged power density in the near field directly in front of an antenna. In order to implement this model in all directions, RoofMaster™ utilizes the antenna manufacturer horizontal pattern data. Additionally, RoofMaster™ incorporates factors that reduce the power density by the inverse square of horizontal and vertical distance beyond the near field region.

Power density is calculated as follows:

$$S = \left( \left( \frac{360}{\text{Beamwidth}} \right) \frac{P_{in} G_H H_r V_r}{2 \pi R h} \right) \frac{\mu W}{cm^2}$$

§ S is the spatially averaged power density value

- R is the horizontal distance meters to the study point
- h is the aperture length in meters
- P<sub>in</sub> is power into the antenna input port in Watts
- RoofMaster™ Implementation:
  - G<sub>H</sub> is gain offset to study point as specified in manufacturer horizontal pattern
  - P<sub>in</sub> is adjusted by the portion of the antenna aperture in the 0-6 ft vertical study zone
  - H<sub>r</sub> accounts for 1/R<sup>2</sup> Far Field roll off which starts at 2xh
  - V<sub>r</sub> accounts for 1/ (vertical distance)<sup>2</sup> roll off from antenna bottom to the top of the 0-6ft study zone (or antenna top to bottom of 0-6ft study zone)

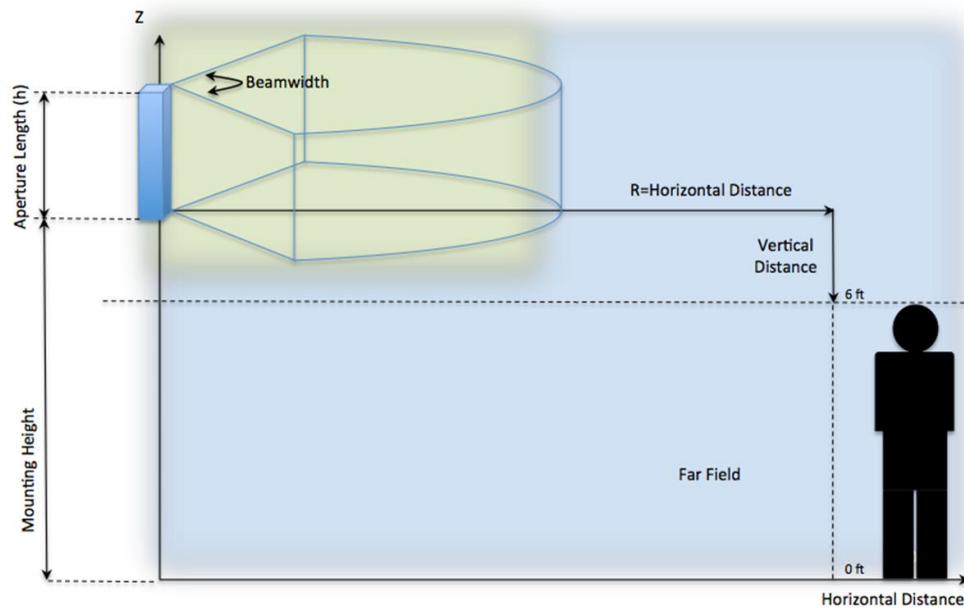


Figure 1: Cylindrical Model Implementation.

## The Far Field Model

In OET-65, a far field model is presented to calculate the spatial peak power density. The RoofMaster™ implementation of this model incorporates antenna manufacturer’s horizontal and vertical pattern data to determine the power density in all directions. Power density is calculated as follows:

$$S = \frac{13.05 P_m G}{R^2} \frac{\mu W}{cm^2}$$

- Does not include 100% reflection factor
- $P_{in}$  is Watts
- $R$  is meters to study point
- $G$  is gain to study point as specified in manufacturer horizontal and vertical patterns

A worst-case 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 follow:

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

This model yields the power density at a single point in space. In order to determine the spatial power density for comparison to the FCC limits, the average of several points calculated within the human profile (0 to 6 feet) must be conducted.

RoofMaster™ calculates seven power density values between 0 and 6 feet above the specified study plane and performs a linear spatial average.

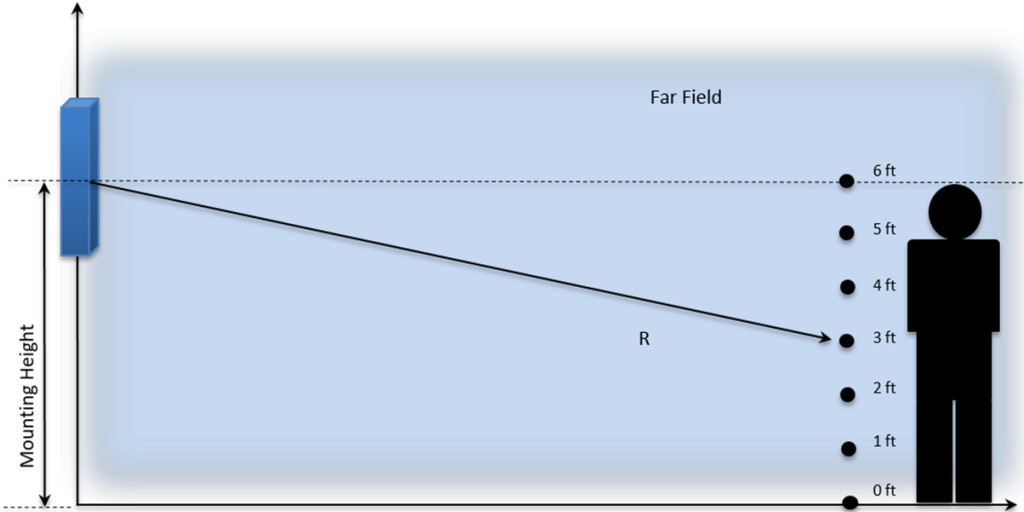


Figure 2 Far Field Model Implementation.

Predicted power densities are displayed as a percentage of the applicable FCC standards.

## 11.0 Certifications

I, Mia Stephens, preparer of this report certify that I am fully trained and aware of the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation. I have been trained in the procedures and requirements outlined in T-Mobile's FCC Regulatory Compliance Manual.

*Mia Stephens*

---

2/2/2023

I, Ryan McManus, reviewer and approver of this report certify that I am fully trained and aware of the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation. I have been trained in the procedures and requirements outlined in T-Mobile's FCC Regulatory Compliance Manual.

*Ryan McManus*


---

2/2/2023



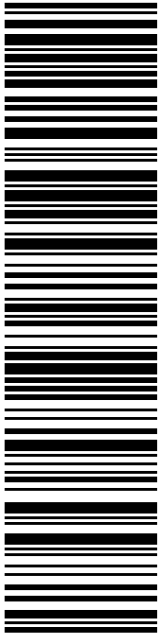
# Exhibit G

## Recipient Mailings



ERIKA G WIECENSKI  
FIRST SELECTMAN  
40 OLD FARMS RD  
WILLINGTON CT 06279-1720

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**9405 5036 9930 0486 6997 97**

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USPS.com 9405 5036 9930 0486 6997 97 0096 5000 0010 6279  
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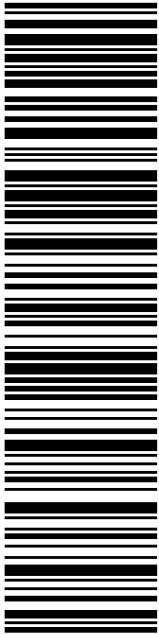
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ZONING AGENT  
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WILLINGTON CT 06279-1720

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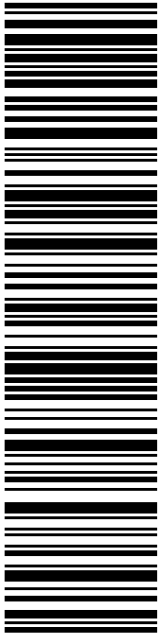


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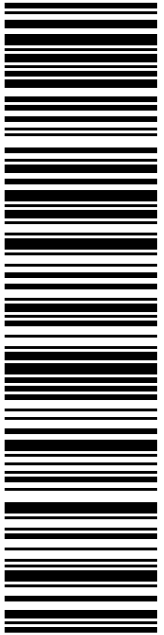
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COLCHESTER CT 06415-2417

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03:42 PM

Product	Qty	Unit Price	Price
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Prepaid Mail	1		\$0.00
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Willington, CT 06279

Weight: 0 lb 13.90 oz

Acceptance Date:

Thu 02/23/2023

Tracking #:

9405 5036 9930 0486 6998 10

Prepaid Mail	1		\$0.00
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Willington, CT 06279

Weight: 0 lb 13.10 oz

Acceptance Date:

Thu 02/23/2023

Tracking #:

9405 5036 9930 0486 6997 97

Prepaid Mail	1		\$0.00
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Colchester, CT 06415

Weight: 0 lb 13.20 oz

Acceptance Date:

Thu 02/23/2023

Tracking #:

9405 5036 9930 0486 6998 41

Prepaid Mail	1		\$0.00
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Coventry, CT 06238

Weight: 0 lb 13.20 oz