

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

June 22, 2021

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

RE: Exempt Modification Application 401 Chapel Hill Road, Oakdale CT 06370

Latitude: 41.468797 Longitude: -72.203344

T-Mobile Site#: CTNL814C NHP

Dear Ms. Bachman:

T-Mobile currently maintains nine (9) antenna at the 180-foot level of the existing 301.4-foot tower, located at 401 Chapel Hill Road, Oakdale CT 06370. The property and tower are owned by Subcarrier Communications. T-Mobile now intends to add a 25Kw generator to an existing concrete pad within an existing compound.

Ground work only-Install New:

(1) GENERAC RD 25 KW AC DIESEL GENERATOR – 240-gallon double walled self-contained tank with fuel sensor. Requires two (2) 12-minute run cycles by-weekly.

This facility was approved by the Town of Montville PZC. The PZ approval file is no longer available – See attached letter from the City Zoning Director

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16- SOj-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-SOj-73, a copy of this letter is being sent to Mayor Ronald K McDaniel, Elected Official and Marcia A. Vlaun, Town Planner for the Town of Montville, as well as the property owner and the tower owner (Subcarrier Communications).

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S;A. \S 16-50j-72(b)(2).

- 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

Mobile: 860-306-2326 Fax: 413-521-0558

Office: 420 Main Street, Unit 2, Sturbridge MA 01566

Email: victoria@northeastsitesolutions.com

Attachments

cc: Mayor Ronald K McDaniel- as elected official Montville Town Hall Uncasville, CT 06382

Marcia A. Vlaun, Town Planner Montville Town Hall, Room 101 310 Norwich-New London Turnpike Uncasville, CT 06382

Subcarrier Communications - as tower owner and property owner 139 White Oak Lane Old Bridge, NJ 08857

Exhibit A

Sheldon F

From: Liz Burdick

Sent: Wednesday, October 11, 2017 2:59 PM

To: Denise Sabo

Cc: Sheldon Freincle; Deborah Chase; Victoria Masse; Colleen Bezanson

Subject: RE: 401 Chapel Hill Road, Montville CT 06370 -T-Mobile EM Application (CTNL814C-

MWAAV)

Attachments: 401 Chapel Hill Rd - Zoning File.pdf

10/11/2017

Dear Denise:

Please be advised that there are no original approvals for this site in either our regular or archived tower sites files. I have attached a copy of a zoning permit issued on 2006 for installation of antennas on "existing tower" that was in the file. Please contact me with any questions. Thank you.

Sincerely, *Liz Burdick*

Liz Burdick, Zoning & Wetlands Officer Town of Montville 310 Norwich New London Turnpike Uncasville, CT 06382 Telephone: (860) 848-6753

Email: eburdick@montville-ct.org

From: Denise Sabo [mailto:denise@northeastsitesolutions.com]

Sent: Wednesday, October 11, 2017 2:45 PM **To:** Liz Burdick <eburdick@montville-ct.org>

Cc: Sheldon Freincle <sheldon@northeastsitesolutions.com>; Deborah Chase <deborah@northeastsitesolutions.com>;

Victoria Masse < victoria@northeastsitesolutions.com>

Subject: 401 Chapel Hill Road, Montville CT 06370 -T-Mobile EM Application (CTNL814C-MWAAV)

Good Afternoon, Liz

As discussed, T-Mobile is seeking a copy of the original zoning approval for the tower located at **401 Chapel Hill Road, Montville**. This copy is required by the state for a Ct Siting Council application we are trying to get submitted. If you have any questions or this is not available please let me know, I can use a letter or email reply stating the file is not available.

Thank you again for your help.

Kind Regards,

Deníse Sabo



860-209-4690 denise@northeastsitesolutions.com

401 Chapel Hill

ZONING PERMIT

IT IS THE OWNERS/AGENTS RESPONSIBILITY	TO FURNISH 1	HE FOLLOWING INFORMATION:
PROPERTY LOCATION 401 CHAPEL HILL ROAD, DAKDALE	CT 06370	MAP 036 LOT 200
PROPERTY OWNER SUBCARRIER COMMUNICATION.	4	PHONE# 732- 607- 2828
CONTRACTOR GENERAL DYNAMICS		PHONE# 860-350-0203
CONTACT ADDRESS 6 GLENVIEW DRIVE, SHERMA	N CT 0678	
ZONE LOT AREASTRUCTURE AREA	HEIGHT	
NATURE OF REQUEST/PROPOSED USE INSTALLATION OF ANTENN	AS ON EXISTING	TOWER AND EQUIPMENT SHELTER,
PROVIDE TWO COPIES OF PLANS DRAWN TO A SCALE OF AT LEAST LOCATION OF EXISTING, PROPOSED, PRINCIPAL AND ACCESSON SUPPLY, PARKING FACILITIES, AND ADJACENT STREETS; DISTAWETLANDS. A PLAN PREPARED BY A CONNECTICUT REGISTERED I ABOVE SHALL NOT BE AUTHORIZED UNTIL AN ACTUAL CERTIF APPOINTED AGENTS.	RY STRUCTURES, DI INCES OF PROPOSE AND SURVEYOR MA	RIVEWAYS, SANITARY FACILITIES AND WATER OF STRUCTURES FROM PROPERTY LINES AND AY BE REQUIRED. THE PROPOSED USE SPECIFIED
Office use only		
	YES	N/A
SITE PLAN	- 🔲	
WETLANDS PERMIT		
HAS A VARIANCE EVER BEEN GRANTED FOR THIS PROPERTY		
HAS BOND BEEN FILED		
FEE \$ 35 /4	CASH/CHECK	#
ZONING PERMIT NUMBER OR N/A	EXPI	RATION DATE (0/20/07
THE OWNER/AGENT IS RESPONSIBLE FOR AND AGE	REES TO:	
1. FURNISH ALL NECESSARY INFORMATION AND DOCUMENT 2. ADHERE TO ALL THE APPLICABLE REQUIREMENTS OF THE 3. NOTIFY THE COMMISSION OR ITS APPOINTED AGENT OF A 4. CONTACT THE ZONING OFFICER (848-8549 x-379) AT LEA COMPLETION OF PROJECT TO ALLOW ZONING OFFICER TO 5. AN E&S BOND MAY BE REQUIRED PRIOR TO COMPLIANCE	E ZONING REGULA ANY ALTERATION I AST 24 HOURS BE INSPECT LOCATION	ATIONS. N THE PLANS. FORE CONSTRUCTION BEGINS AND UPON
I HEREBY CERTIFY THAT THE INFORMATION PROVIDED IS TRUE AN AUTHORIZED BY THE OWNER IN FEE AND THAT I AM AUTHORIZED TO OWNER AGENTS SIGNATURE	MAKE APPLICATION	URTHER ATTEST THAT THE PROPOSED WORK IS FOR A PERMIT FOR SUCH DESCRIBED WORK.
	AGENT DATE: 6	cler DATE
COMMISSION AGENT by Commission 2/28/06		OF COMPLIANCE (COC)
THIS SIGNED PERMIT AUTHORIZES THE APPLICANT TO PROCEED TO TH	IE BUILDING DEPART	MENT FOR ANY REQUIRED PERMITS

THE SIGNED CERTIFICATE OF COMPLIANCE IS NEEDED PRIOR TO A CERTIFICATE OF OCCUPANCY BEING ISSUED BY THE BUILDING INSPECTOR

REV05/24/2005

Simons Land Consulting LLC

6 Glenview Drive Sherman, CT 06784-2310 Office (860) 350-0203 Mobile (203) 482-5156 Fax (860) 355-8767 sam@simonsland.com

June 20, 2006

Vernon D. Vesey II Building Department Town of Montville 301 Norwich New London Turnpike Uncasville, CT 06382 Thomas E. Sanders
Planning Department
Town of Montville
301 Norwich New London Turnpike
Uncasville, CT 06382
(Letter & 1 copy of each referenced item)

Re:

United States Coast Guard Building Permit Application 401 Chapel Hill Road, Village of Oakdale (Montville), CT 06370

Town of Montville:

On behalf of United State of America, acting by and through the United States Coast Guard ("U.S. Coast Guard"), I am hereby submitting to the Town of Montville, Connecticut, the U.S. Coast Guard's plans to install antennas on an existing Tower pursuant to the Homeland Security Act and as part of a Congressionally-mandated upgrade to the U.S. Coast Guard's communications system to protect America's borders and to ensure safety of life and property at sea and in America's major bodies of waters. By way of summary, the U.S. Coast Guard's installation will also require, for reasons of safety and security, the construction of a fenced compound (the "U.S.C.G. Compound") including a generator, a fuel tank, and shelter to accommodate the U.S. Coast Guard's ground equipment. The proposed installation is shown in the plans submitted with this letter.

This is a Federal project under 40 U.S.C. § 3312(f)-(g) which entitles the U.S. Coast Guard exemptions from local zoning and permitting requirements as set forth in Item Nos. 1 and 2 below.

I am submitting the following documents for a Building Permit:

- 1. <u>U.S. Coast Guard letter</u> dated March 14, 2006 to Town of Montville regarding the U.S. Coast Guard's exemption from Town of Montville's requirements as a Federal Agency.
- 2. <u>U.S. Coast Guard's legal memorandum</u> dated February 15, 2006 regarding the U.S. Coast Guard's exemption from local and state regulation (the "U.S.C.G. Memorandum")

Page 2
 June 20, 2006

3. <u>Fees</u> – The U.S. Coast Guard is submitting no application fees as the U.S. Coast Guard is exempt from local and state governmental filing fees as set forth in last paragraph on page 1 of U.S. Coast Guard letter (Exhibit 1) and Paragraph 10 (page 4) of the U.S.C.G. Memorandum (Exhibit 2).

4. Construction Drawings (2 copies) dated May 9, 2006, by C&S Engineers which have

been sealed by a Licensed Professional Engineer.

5. <u>Structural Analysis Report</u> (2 copies) on the Existing 300-ft Self Supporting Lattice Steel Tower reflecting the proposed U.S. Coast Guard's installation.

6. **Project Backgrounder** which provides a general description of the U.S. Coast Guard's Rescue 21 Project.

7. Town of Montville Filing Documents

- a. Construction Document Submission Requirements
- b. Construction Permit Approval
- c. Zoning Permit
- d. Application for Commercial Building Permit
- e. Application for Commercial Trades Permit

As set forth in the U.S. Coast Guard's letter dated March 14, 2006 (attached hereto as Exhibit #1) and legal memorandum, dated February 15, 2006, attached hereto as Exhibit #2 (the "U.S.C.G. Memorandum"), the U.S. Coast Guard is not required to obtain a permit from the Town to co-locate on the Tower. Nevertheless, federal law requires the U.S. Coast Guard to inform the Town of its plans and to consider comments from Town officials.

The Tower is an existing, 300-foot telecommunications tower, owned by SubCarrier Communications, and located at 401 Chapel Hill Road, Village of Oakdale (Montville), CT 06370. SubCarrier Communications has entered into lease agreement with the U.S. Coast Guard pursuant to which such entity is entitled to install certain telecommunications facilities at specified heights on the Tower, and to place certain associated equipment on the Site.

The Project essentially consists of installing antennas on the existing Tower. The U.S. Coast Guard will place their associated antenna operating equipment within the existing Leased Area (the "Existing Leased Area") located adjacent to the Tower at the Site (As more fully shown on the C&S Engineers Construction Drawings, dated May 9, 2006 – Item No. 4 above).

As detailed in the U.S.C.G Memorandum, under 40 U.S.C. § 3312, U.S. Coast Guard contractors must comply "with the latest edition of nationally recognized codes, including electrical codes, fire and life safety codes, and plumbing codes." See U.S.C.G. Memorandum at 2. Moreover, federal contractors must give "due consideration" to substantive provisions of local zoning ordinances and similar laws, as well as to the recommendations of State and local officials. See id. at 2-3.

Page 3
 June 20, 2006

On the other hand, the U.S.C.G. Memorandum makes very clear that "[s]tate and local zoning and other similar laws . . . do not apply to Federal construction or alteration projects where the United States will own the constructed or altered improvement [and that] there is no need for the Coast Guard contractor to obtain a permit." See id. at 1. According to the U.S. Coast Guard, the Town has the right to review, to comment on, and to inspect – but not, ultimately, to prevent or impose restrictions on – the U.S. Coast Guard's installation and construction at the Site.

If requested, the U.S. Coast Guard will respond to questions or comments from the Town or residents of the community regarding the installation of the U.S.C.G. Facility, the construction of the U.S.C.G. Compound, or any other aspect of the U.S. Coast Guard's plans at the Site.

Each aspect of the Coast Guard's plans is included for purposes of security and/or safety. For instance, the generator and fuel tank are components of the U.S. Coast Guard emergency back-up system. In the event of an emergency during which commercial electrical power is lost, the generator, fueled by the propane, will automatically power-up so as to maintain uninterrupted operations and communications.

The Connecticut Siting Council (CSC) has confirmed with us that there are no filing or approval requirements with that state agency as this tower is not subject to CSC jurisdiction (Michael Perrone, Siting Analyst, Connecticut Siting Council, 10 Franklin Square, New Britain, CT 06051 (860) 827-2935).

I believe that the enclosed materials meet requirements for this Building Permit Application; however, if you have any questions, or require any further information, please do not hesitate to contact me. Thank you for your kind consideration of this Building Permit Application.

Very truly yours,

Sam Simons

Site Acquisition Consultant for General Dynamics

Contractor for the United States Coast Guard

Enclosures

Cc: Raymond Occhalini, Fire Marshall (with 1 copy of each enclosure)



Exhibit B

Property Card: 401 CHAPEL HILL RD

Town of Montville, CT



Parcel Information

Parcel ID: 036-002-000 **Map:** 036 Vision ID: 2136 Lot: 002-000

No. Half Baths:

Owner: SUBCARRIER COMMUNICATIONS INC

Co-Owner:

Mailing Address: 139 WHITE OAK LN

OLD BRIDGE, NJ 08857

Use Description: Radio/TV Tr

Zone: R20 Land Area in Acres: 1.94

Sale History

Book/Page: 456/669 Sale Date: 1/12/2005 Sale Price: \$55,000

Assessed Value

Land: \$78,800 **Buildings:** \$170,470 Extra Bldg Features: \$0

Outbuildings: \$3,560 Total Buildings: \$174,030 **Total:** \$252,830

Building Details: Building #1



Model: Industrial Int Wall Desc 1: Minimum Living Area: 3480 Int Wall Desc 2:

Ext Wall Desc 1: Concrete Appr. Year Built: 1960

Style: Telephone Bldg Ext Wall Desc 2:

Stories: 1 Roof Cover: Rolled Compos Occupancy: 1.00 Roof Structure: Flat

No. Total Rooms: Heat Type: Forced Air No. Bedrooms: Heat Fuel: Gas No. Baths: A/C Type: Heat Pump

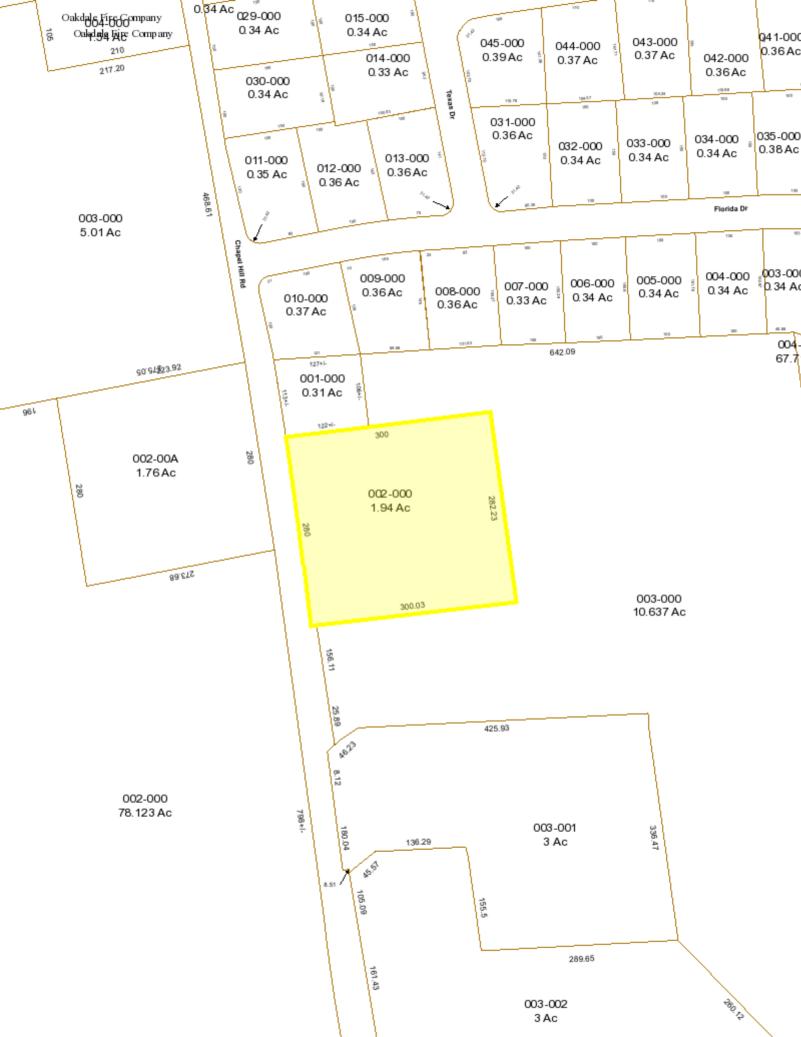


Exhibit C

MODIFICATION OF EXISTING WIRELESS FACILITY BY

T··Mobile·

T-MOBILE NORTHEAST LLC

PROJECT TITLE: NATIONAL HARDENING SITE NUMBER: CTNL814C

SITE NAME: OAKDALE SUBCARRIER COMMUNICATIONS SITE ADDRESS: 401 CHAPEL HILL ROAD OAKDALE, CT 06370

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,

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

CONNECTICUT STATE BUILDING CODE (CSBC)

ANSI/TIA-222-G 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



1-800-922-4455

Minimum of 2 working days in advance, no

DATE

CONTRACTOR'S NOTES:

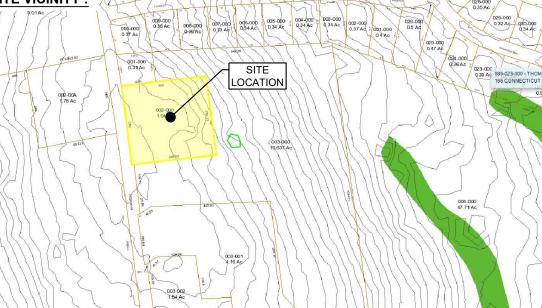
CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON THE JOB SITE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. FAILURE TO NOTIFY THE ARCHITECT/ENGINEER PLACES THE RESPONSIBILITY ON THE CONTRACTOR TO CORRECT THE DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.

APPROVALS:

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



SITE VICINITY:



PROJECT SCOPE:

THE PROPOSED PROJECT SCOPE WILL CONSIST OF INSTALLING A NEW GENERAC RD 25 KW AC DIESEL GENERATOR AND TANK FOR AN EXISTING TELECOM BASE STATION. NO SIGNIFICANT GRADING IS REQUIRED. ALL PROPOSED CONSTRUCTION WILL BE CONTAINED IN THE LIMITS OF THE EXISTING FENCED COMPOUND AND TOWER SITE LEASE AREA.

PROJECT INFORMATION:

ADDRESS: 401 CHAPEL HILL ROAD OAKDALE, CT 06370 MAP BLOCK LOT: 036-002-000 ZONING DISTRICT: USE CODE:

PUBLIC UTILITY 41° 28' 07.91" N 72° 12' 12.06" W GROUND ELEV: 607'± (AMSL)

PROJECT TEAM:

APPLICANT: T-MOBILE NORTHEAST, LLC. 35 GRIFFIN ROAD SOUTH

BLOOMFIELD, CT 06002 860-692-7100

PROPERTY OWNER: SUBCARRIER COMMUNICATIONS INC

139 WHITE OAK LN OLD BRIDGE, NJ 08857

NORTHEAST SITE SOLUTIONS PROJECT MANAGER: 420 MAIN STREET, BLDG 4 STURBRIDGE, MA 01566

SHELDON FREINCLE

SHELDON@NORTHEASTSITESOLUTIONS.COM

ENGINEERING CONSULTANTS: FORESITE LLC

462 WALNUT ST NEWTON, MA 02460 SAFED MOSSAVAT

SMOSSAVAT@FORESITELLC.COM 617-212-3123

SHEET INDEX:

- TITLE SHEET GENERAL NOTES
- PLAN
- GENERATOR SPECIFICATIONS
- GENERATOR SPECIFICATIONS
- AUTOMATIC TRANSFER SWITCH SPECIFICATIONS **ELECTRICAL DETAILS**
- **GROUNDING DETAILS**

ROHIBITED, DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY. ALL OTHER

DATE

PRINTED SIZES ARE DEEMED "NOT TO SCALE".

DESCRIPTION

REV

THIS DOCUMENT IS THE DESIGN PROPERTY AND

COPYRIGHT OF FORESITE, LLC, AND FOR THE EXCLUSIVE USE BY THE TITLE CLIENT.

DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY

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

CONSULTANT:

462 WALNUT STREET, SUITE 1

NEWTON, MA 02460 617-212-3123 ROFESSIONAL SEAL

Α	PRELIMINARY	06/21/21

SITE NUMBER: CTNL814C SITE NAME: OAKDALE SUBCARRIER COMMUNICATIONS

SITE ADDRESS: 401 CHAPEL HILL ROAD

SHEET TITLE:

T-1: TITLE SHEET

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" 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 -

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

PROJECT MANAGER

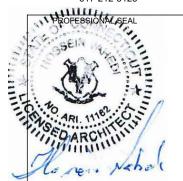


420 MAIN STREET, BLDG 4 STURBRIDGE, MA 01566 203-275-6669

CONSULTANT:



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



THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF FORESITE, LLC. AND FOR THE EXCLUSIVE USE BY THE TITLE CLIENT. DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED. DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY. ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

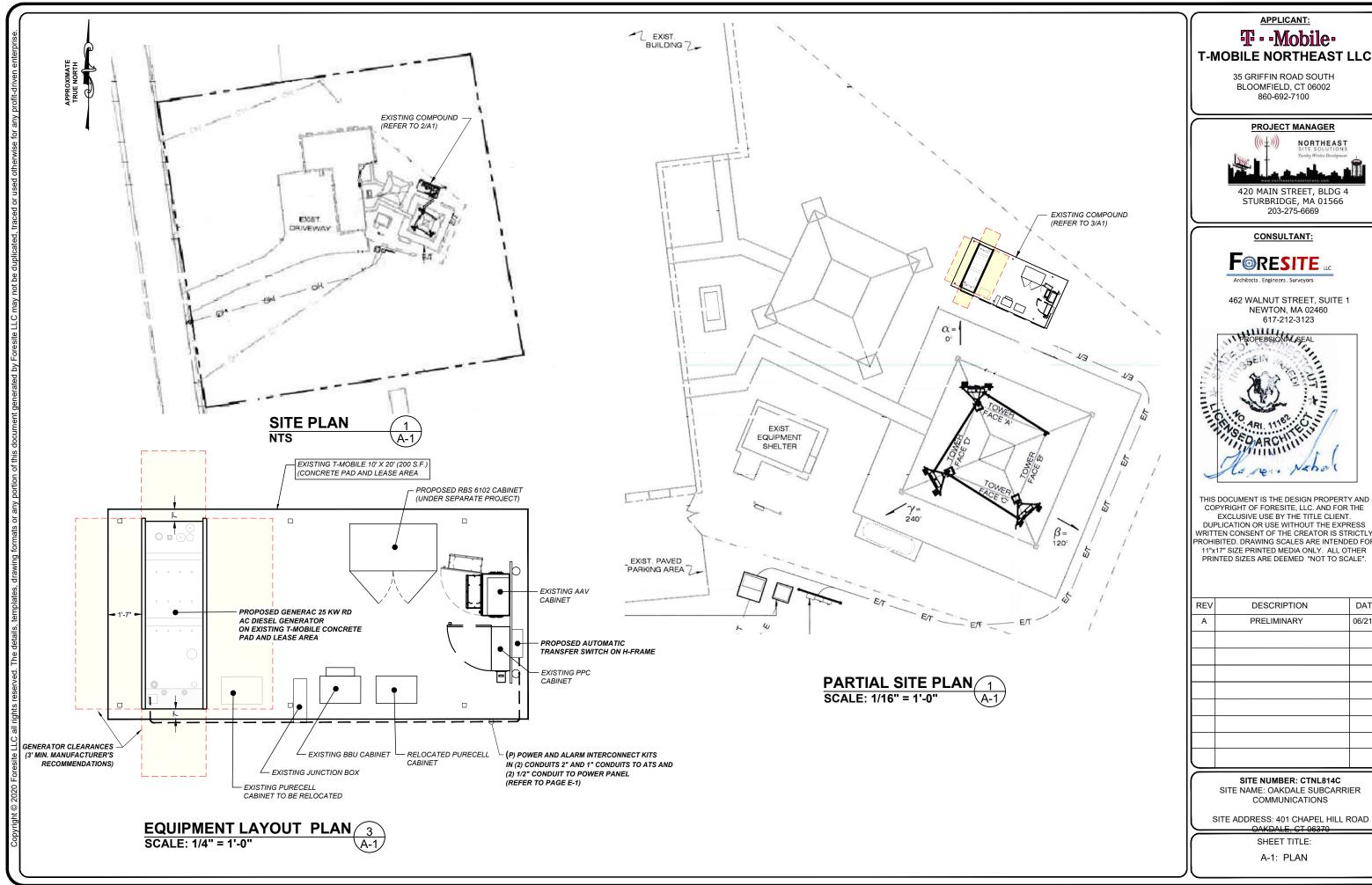
REV	DESCRIPTION	DATE
Α	PRELIMINARY	06/21/21
(J

SITE NUMBER: CTNL814C SITE NAME: OAKDALE SUBCARRIER COMMUNICATIONS

SITE ADDRESS: 401 CHAPEL HILL ROAD

SHEET TITLE:

N-1: GENERAL NOTES



T-MOBILE NORTHEAST LLC

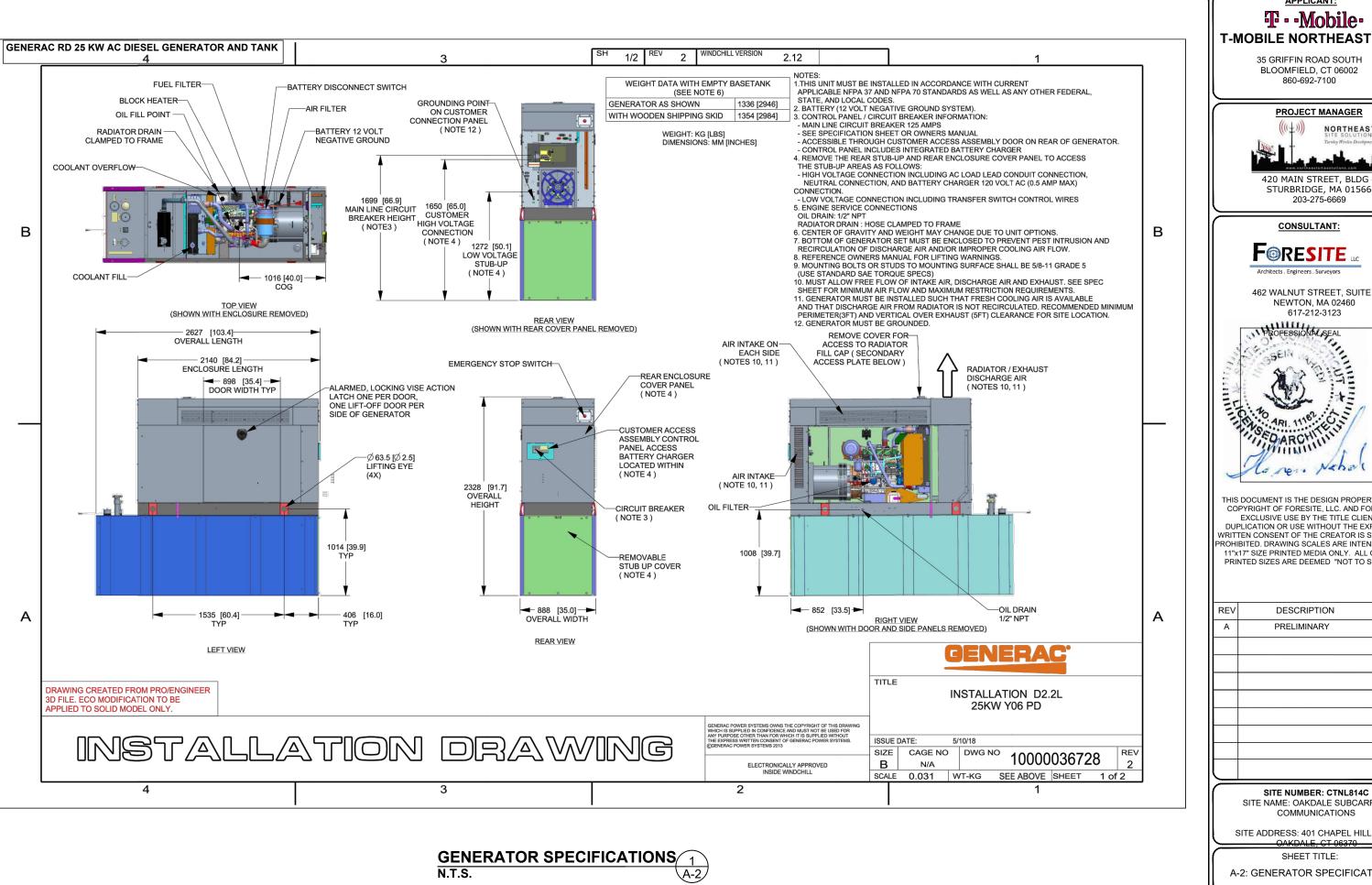






THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF FORESITE, LLC. AND FOR THE EXCLUSIVE USE BY THE TITLE CLIENT. DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED. DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY. ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

REV	DESCRIPTION	DATE
Α	PRELIMINARY	06/21/21
	_	



APPLICANT:

T··Mobile· T-MOBILE NORTHEAST LLC

BLOOMFIELD, CT 06002

PROJECT MANAGER



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



462 WALNUT STREET, SUITE 1 NEWTON, MA 02460



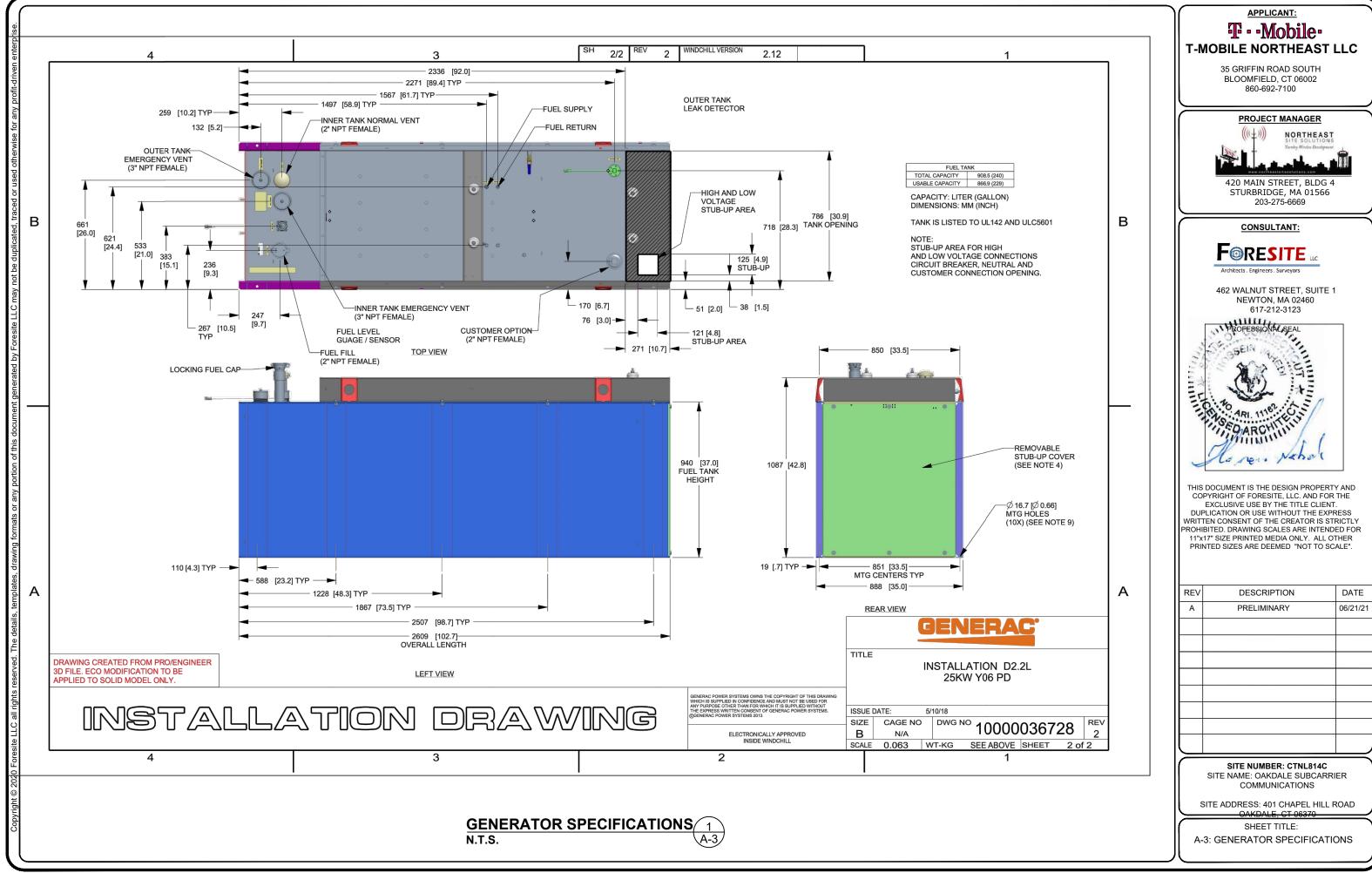
THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF FORESITE LLC. AND FOR THE EXCLUSIVE USE BY THE TITLE CLIENT. DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY ROHIBITED. DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY. ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

REV	DESCRIPTION	DATE
Α	PRELIMINARY	06/21/21

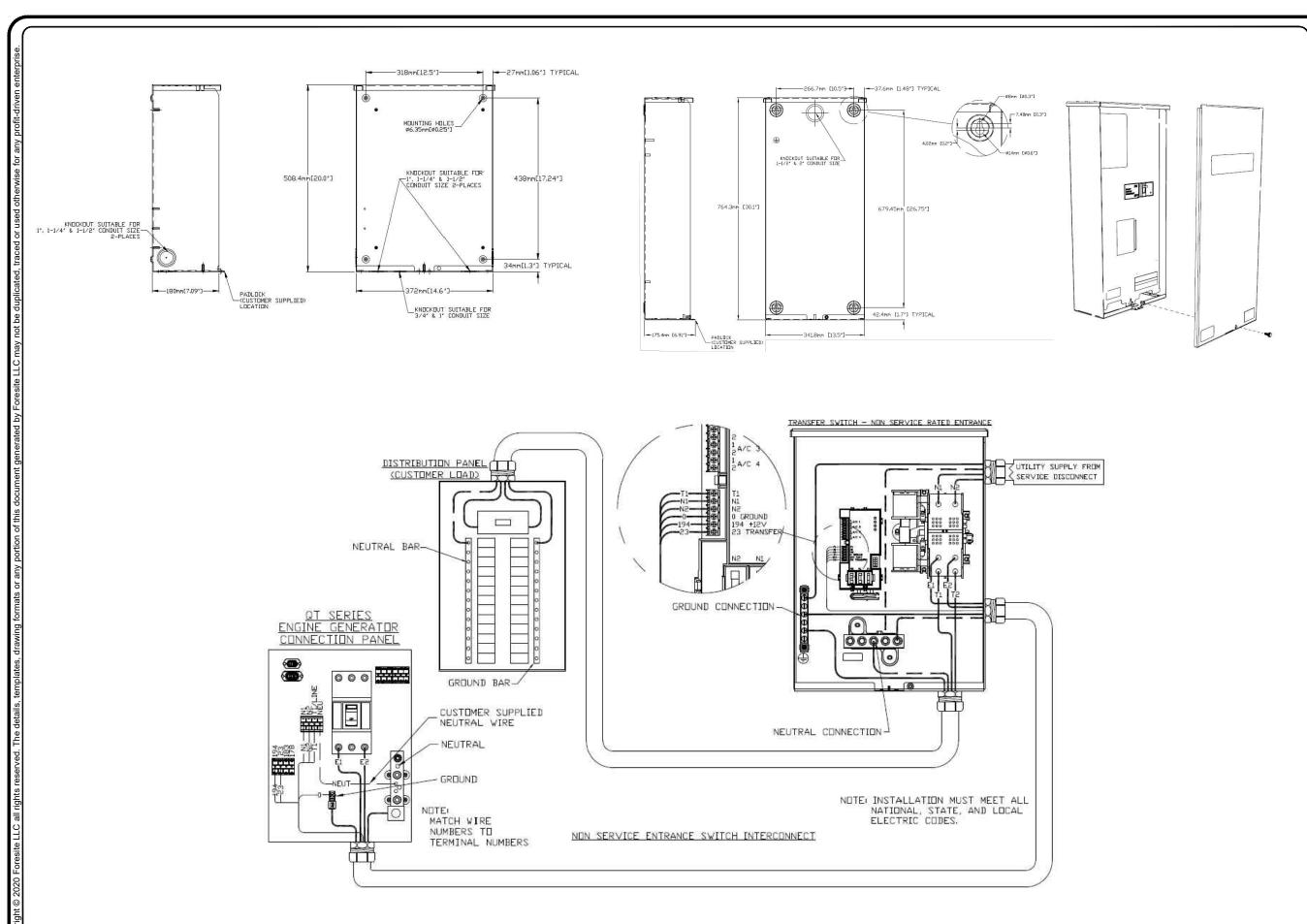
SITE NAME: OAKDALE SUBCARRIER

SITE ADDRESS: 401 CHAPEL HILL ROAD

A-2: GENERATOR SPECIFICATIONS



REV	DESCRIPTION	DATE
Α	PRELIMINARY	06/21/21
\geq		=



AUTOMATIC TRANSFER SWITCH DETAILS 1

SCALE: N.T.S.

APPLICANT:

T - Mobile - T-Mobile -

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

PROJECT MANAGER

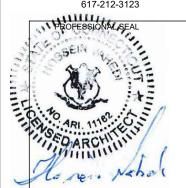


420 MAIN STREET, BLDG 4 STURBRIDGE, MA 01566 203-275-6669

CONSULTANT:



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



THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF FORESITE, LLC. AND FOR THE EXCLUSIVE USE BY THE TITLE CLIENT. DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED. DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY. ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

REV	DESCRIPTION	DATE
Α	PRELIMINARY	06/21/21
		J

SITE NUMBER: CTNL814C SITE NAME: OAKDALE SUBCARRIER COMMUNICATIONS

SITE ADDRESS: 401 CHAPEL HILL ROAD

SHEET TITLE:

A-4: AUTOMATIC TRANSFER SWITCH DETAILS

GENERAL ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES INCLUDING LATEST EDITIONS OF:

ES INCLUDING LATEST EDITIONS OF:
NFPA - NATIONAL FIRE PROTECTION ASSOCIATION
UL - UNDERWRITERS LABORATORIES
NEC - 2017 NATIONAL ELECTRICAL CODE NEMA - NATIONAL ELECTRIC

MANUFACTURERS ASSOCIATION
OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT

- IBC 2015 INTERNATIONAL BUILDING CODE
- 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. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NAME 3R ENCLOSURE.
- 9. GROUNDING SHALL COMPLY WITH NEC ART. 250.
- 10. GROUNDING COAX CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURES COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER
- 11. 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
- 12. 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.
- 13. 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.
- 14. 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).
- 15. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- 16. APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTION.
- 17. TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION.
- 18. BOND ANY METAL OBJECTS WITHIN 7 FEET OF PROPOSED EQUIPMENT OR CABINET TO MASTER GROUND BAR.
- 19. VERIFY PROPOSED SERVICE UPGRADE WITH LOCAL UTILITY COMPANY PRIOR TO CONSTRUCTION.
- 20. EXISTING UNDERGROUND UTILITY LOCATIONS ARE UNKNOWN. GENERAL CONTRACTOR SHALL HAND-EXCAVATE TO REQUIRED SUB-GRADE DEPTH, SUFFICIENT TEST HOLES OR AS DIRECTED / REQUIRED BY CONSTRUCTION MANAGER. ALL PROPOSED UNDERGROUND UTILITY TRENCHES SHALL BE HAND-EXCAVATE AS REQUIRED. GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED SPECIAL TEMPORARY PROTECTION OF, PHYSICAL DAMAGE TO, OR REPAIR OF EXISTING UNDERGROUND CONDUIT INCLUDING RESTORATION OF SERVICE.
- 21. PROVIDE SLIP JOINS WHERE CONDUITS TRANSITION FROM UNDERGROUND TO ABOVE GROUND.

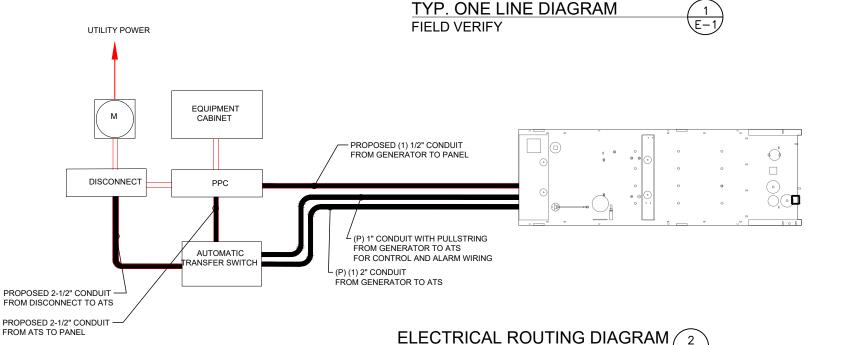
NOTES:

DIAGRAM AS SHOWN, IS A GENERIC ROUTING SCHEMATIC BASED ON AVAILABLE INFORMATION AND MAY NOT REPRESENT ACTUAL FIELD CONDITIONS. CONTRACTOR SHOULD INSTALL THE GENERATOR, EQUIPMENT AND CONNECTIONS BASED ON VERIFIED ELECTRICAL AUDITS AND PER MANUFACTURER'S INSTALLATION GUIDELINES AS WELL AS ALL APPLICABLE LOCAL AND NATIONAL CODES AND REQUIREMENTS.

GROUNDING NOTES:

- 1. GROUNDING SHALL COMPLY WITH NEC ART. 250
 AND MANUFACTURER'S RECOMMENDATIONS. TIE INTO THE EXISTING
 GROUNDING SYSTEM
- 2. CONTRACTOR SHALL INSTALL GROUND RODS ON ALL UNDERGROUND GROUNDING RUNS LONGER THAN 10'. GROUND RODS WILL BE INSTALLED ON 20' CENTERS MAXIMUM.
- 3. ALL DOWN CONDUCTORS MUST GO DOWN PER NFPA 780.
- 4. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHEN THE GROUNDING SYSTEM IS COMPLETE. THE CONSTRUCTION MANAGER SHALL INSPECT THE GROUNDING SYSTEM PRIOR TO BACKFILLING.
- 5. CONTRACTOR MY USE EXISTING CONDUITS AND CONDUCTORS PROVIDED THEY ARE IN GOOD CONDITION AND ARE SUFFICIENTLY RATED.

(3) #1/0 & (1) #6G (CU THHN) IN 2"C (P) ON-BOARD 125A CIRCUIT BREAKER (HEIGHT 66.9")(SEE SHEET A-3) (GENERATOR DISCONNECTING MEANS SHALL COMPLY WITH NEC 445.18 (B)) (E) T-MOBILE 200A - FUSED 120/240 V SINGLE PHASE DISCONNECT (P) GENERAC 25 KW AC DIESEL GENERATOR (P) (2) 1/2" CONDUIT WITH (3) 3/0 & (1) #4 GND (P) GENERAC 200A, 240V **AUTOMATIC TRANSFER SWITCH** (P) 1/2" CONDUIT WITH (ALL EXTERIOR ELECTRICAL (4) #12 & (2) #12 GND (P) 1" CONDUIT WITH PULL STRING **EQUIPMENT TO HAVE NEMA 3R** TO POWER PANEL FROM GENERATOR TO ATS **ENCLOSURES, SEE NOTE 8)** FOR CONTROL AND ALARM WIRING MTS \bigcirc (E) 200A GENERATOR RECEPTACLE (E) POWER PANEL (F) PPC TO (E) EQUIPMENT



SCALE: N.T.S

APPLICANT:

T - Mobile - T-mobile -

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

PROJECT MANAGER

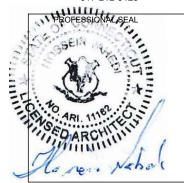


420 MAIN STREET, BLDG 4 STURBRIDGE, MA 01566 203-275-6669

CONSULTANT:



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



THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF FORESITE, LLC. AND FOR THE EXCLUSIVE USE BY THE TITLE CLIENT.
DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED. DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY. ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

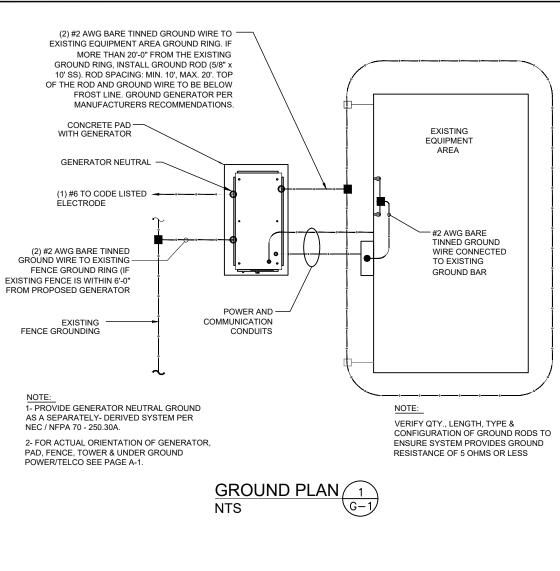
REV	DESCRIPTION	DATE
Α	PRELIMINARY	06/21/21
		J

SITE NUMBER: CTNL814C
SITE NAME: OAKDALE SUBCARRIER
COMMUNICATIONS

SITE ADDRESS: 401 CHAPEL HILL ROAD

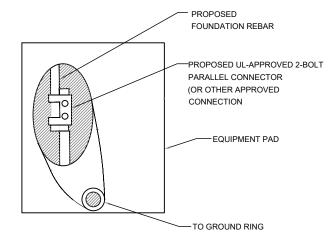
SHEET TITLE:

E-1: ELECTRICAL DETAILS



NOTES:

- 1. CONNECTION SHALL BE COVERED BY NO LESS THAN 2" OF CONCRETE.
- 2. ATTEMPT TO MAKE CONNECTION TO A 6'-0" RUN OF REBAR OR GREATER.
- 3. APPLY HEAT SHRINK OR ELECTRICAL TAPE AROUND THE CONDUCTOR TO AVOID CORROSION.



EQUIPMENT PAD GROUNDING 2 NTS NOTE:

CONTRACTOR TO USE CLEAR OR GRAY
SILICONE AS NECESSARY TO SEAL LIQUID
TIGHT FLEXIBLE NON-METALLIC CONDUIT.

PROPOSED SILICONE

PROPOSED LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT

-PROPOSED #2 SOLID

TINNED COPPER WIRE

GROUND WIRE WEATHERPROOFING 3
NTS

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

CONSULTANT:



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



THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF FORESITE, LLC. AND FOR THE EXCLUSIVE USE BY THE TITLE CLIENT.

DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED. DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY. ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

REV	DESCRIPTION	DATE
Α	PRELIMINARY	06/21/21

SITE NUMBER: CTNL814C SITE NAME: OAKDALE SUBCARRIER COMMUNICATIONS

SITE ADDRESS: 401 CHAPEL HILL ROAD

SHEET TITLE:

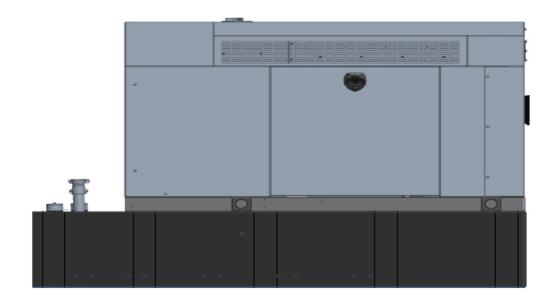
G-1: GROUNDING DETAILS

Exhibit D

T··Mobile· Engineering & Operations

Generac RD025 Design Document

Diesel, AC, 25kW External Fill Tank Model#7192-0 SKU#33651



The following are responsible for this project document:

Kevin Smith SR. Engineer (770) 256-3594

Project Design Spec Revision	1.0	Last Date:08/23/2018	5/14/2018
Final doc URL (~Dnnnnn):			
Location	Use the InfoRouter Search (Advanced) putting the Document ID (nnnnnn without the D) to find the location of the master document.		
Template URL:	http://docs.eng.t-mobile.com/InfoRouter/docs/~D423750 Slightly updated 1/2011		



Table of Contents

1	Introduction / Project Summary	3
1.1	Purpose of Project	3
1.2	Feature Description	3
1.3	Dimensions	3
2	Fuel Tanks	4
3	RXSC200A3 ATS/ Controller	4
3.1	Hardware	4
4	Architecture/Alarms	7
4.1	Interfaces and Alarming	7
5	Regulatory Requirements	9
6	Configuration/Diagrams	9
7	Maintenance	14



1 Introduction / Project Summary

1.1 Purpose of Project

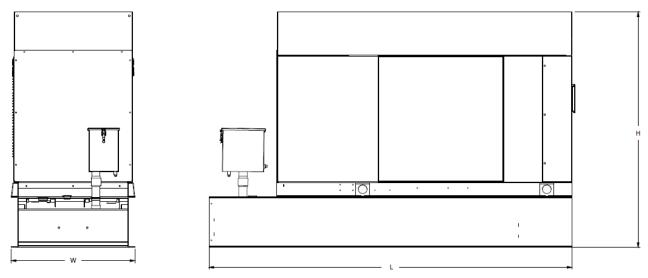
T-Mobile's nationwide cell site hardening plan is providing a refuellable backup power system capable of powering a site for a minimum of 48 hours before refueling is required. The purpose of this project is to give T-Mobile customers reliable service during power outages and provide a sufficient layer of coverage. This design document is for Generac's RD025 model#7192-0, which is a Diesel AC generator with a capacity of 25kW.

1.2 Feature Description

The Generac RD025 is a 25kW AC, diesel generator is one of the generators selected as part of the T-Mobile RFP in support of the nationwide cell site hardening plan. The RD025 has a Level 2 acoustic enclosure, 3 phase sensing, and +-0.25% digital voltage regulation. It is equipped with RS232, RS485 and canbus remote ports and Evolution control panel. It is also equipped with a automatic transfer switch, the RXSC200A3 (Automatic Transfer Switch) Controls the process of transferring commercial AC power and generator power. The RXSC200A3 is a 200Amp, switch that is programmed to perform engine test runs and also has adjustable engine run time capabilities. For RXSC200A3 Owners Manual and full feature descriptions LINK.

1.3 Dimensions

The dimensions of a level 2 Acoustic Enclosure L \times W \times H in inches 103.4 \times 35 \times 91.7. T-Mobile requires a 36-inch radius around the generator that will cover the 18" door swing on the generator.



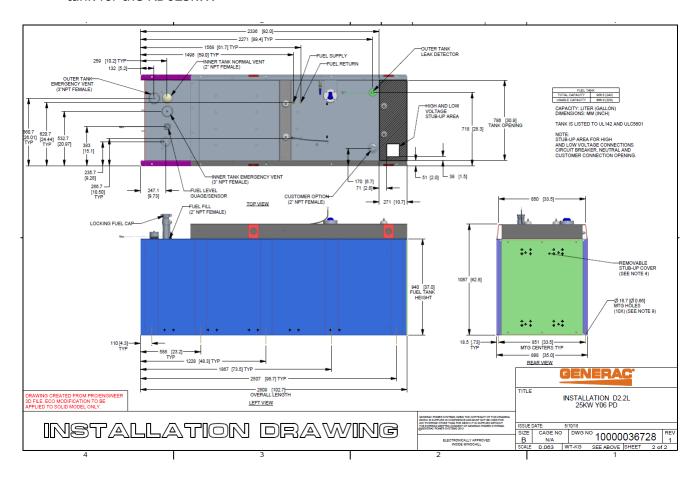
Weights and Dimensions

U	nit Weight - Ibs	Unit Weight with Skid - lbs	Dimensions (L x W x H) - in
2,	,123	2,161	103.4 x 35.0 x 73.8



2 Fuel Tanks

The RD025 has a 102.7" 240 Gallon Double-Wall UL142 Base tank to provide 98 hours of backup power at full load deployed on site. Below is the Install drawing for the 240-gallon tank for the RD025kW.



3 RXSC200A3 ATS/ Controller

3.1 Hardware

The RD025 will come with a RXSC200A3 and an Evollution controller. The sites considered for the RD025 should not have a DC power consumption above 20kW

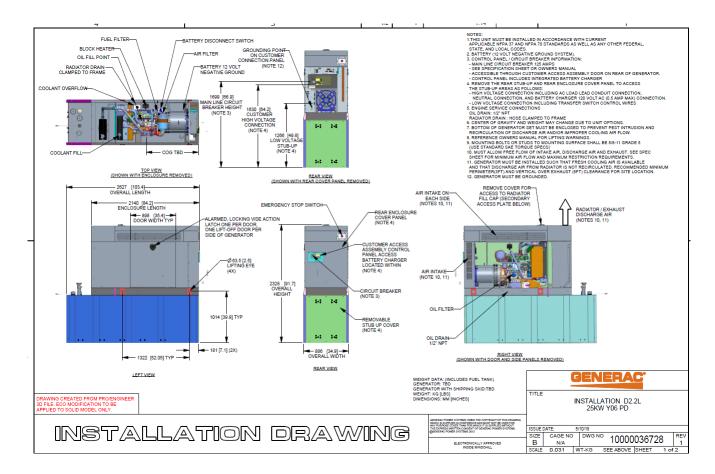


RXSC200A3 Link

RXSC200A3 install drawing Link

Evollution controller spec sheet Link

RD025 installation drawings and supporting documentation Link



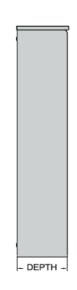
3.2 RXSC200A3 Automatic Transfer Switch

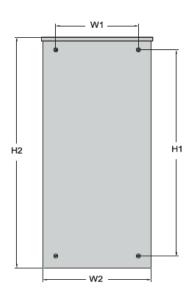
The RXSC200A3 (Automatic Transfer Switch) is equiped with the following functions. Utility voltage drop-out <65%. Timer to Generator start: 10 second factory set, adjustable between 2-1500 seconds. Engine Warm up delay: 5 seconds. Standby Voltage Sensor: 65% for 5 seconds. Utility Voltage Pickup >80%. Re-Transfer Time Delay: 15 seconds. Engine Cool-Down Timer: 60 seconds. Exerciser: 5 or 12 minute adjustable weekly/by-weekly/monthly. The transfer switch can also be operated manually without power applied



RXSC200A3 Dimensions

Мо	del	RXSC200A3
Height	HI	17.24/437.9
(in./mm)	H2	20/508
Width	WI	12.5/317.5
(in./mm)	W2	14.6/370.8
Depth (i	in./mm)	7.09/180.1
Weight (I	bs./kilos)	20/9.07







4 Architecture/Alarms

4.1 Interfaces and Alarming

The generator will be monitored by external alarms, conduit and cat five cables have to be installed from the Evolution Controllers Low Voltage Box located in the Generac generator to the appropriate cell site equipment. Nokia FSEB or FSEE and in Ericsson the SAU.

At a Nokia site, this connection is at the FSEB or an FSEE module. For the wiring diagram and instructions for the FSEB click the <u>Link</u>. (The FSEE is the Nokia module that will be replacing the FSEB. For details on the FSEE contact: HQNokiaCellsiteDesigns@T-Moblie.com)

Ericsson sites will connect to the SAU module via OVP Expansion Kit for 8 External Alarms. Product number: UTOVP-ALM8EXP. For the wiring diagram and instructions for this click the link.

The RXSC200A3 has auxiliary contacts that will facilitate the *ATS in Emergency position* alarm and will be a Normally Closed contact. Below is the wiring schematic for this contact and it can be found in the RXSC200A3 owners manual.

Auxiliary Contact

See *Figure 3-4*. If desired, there is one normally-closed Auxiliary Contact (A) on the transfer switch to operate customer accessories, remote advisory lights, or remote annunciator devices. A suitable power source must be connected to the common terminal. If needed, an extra auxiliary contact can be added.

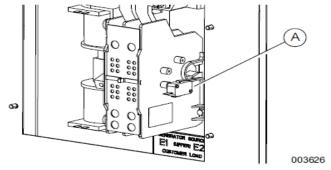


Figure 3-4. Auxiliary Contact

The auxiliary contact is normally closed when the transfer switch is in utility mode. The contacts will open when the transfer switch is in the standby power mode.

NOTE: Auxiliary Contact is rated 10 amps at 125 or 250 volts AC, and 0.6 amps at 125 volts DC.

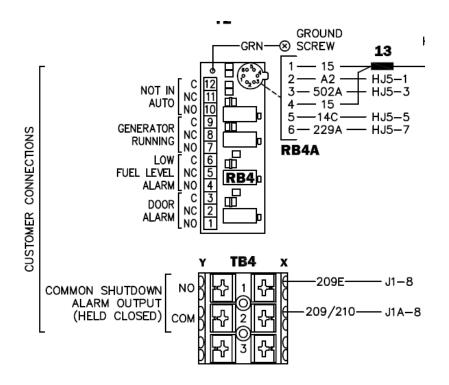
▲CAUTION

Equipment damage. Exceeding rated voltage and current will damage the auxiliary contacts. Verify that voltage and current are within specification before energizing this equipment. (000134a)



T-Mobile has four relays available from the Generac controller that are user-defined. T-Mobile can have four-alarm categories and a limitless number of subcategories. T- Mobile will utilize Normally Closed (NC) dry contacts for alarms in Low Voltage Connection box in the spare outputs section. Ericsson cabinets need to be equipped with the alarm expansion kit (UTOVP-ALM8EXP) to handle external alarms.

Customer Connections Inside the RD025



Ericsson UTOVP- ALM8EXP





Evolution Controller Customer					
Connections	Nokia FSEB Alarm Connections 13-24	T-Mobile Standard Alarms			
NC#8-Gen Running	NC 4110 grd 4111 pin 13	Generator Running			
NC#11-Not In Auto	NC 4110 grd 4111 pin 14	Generator Alarm Critical			
NC#2-Door Alarm	NC 4110 grd 4111 pin 15	Generator Alarm NSI			
NC#5-Low Fuel	NC 4110 grd 4111 pin 16	Low Fuel			
RXSC200A3-Auxiliary Contacts	NC 4110 grd 4111 pin 17	ATS in Emergency Position			

Evolution Controller Customer					
Connections	Ericsson Alarm 8expConnections	T-Mobile Standard Alarms			
NC#8- Gen. Running	NC - A5	Generator Running			
NC#11-Not In Auto	NC - A6	Generator Alarm Critical			
NC#2-Door Alarm	NC - A7	Generator Alarm NSI			
NC#5-Low Fuel	NC - A8	Low Fuel			
RXSC200A3-Auxiliary Contacts	NC - A9	ATS in Emergency Position			

5 Regulatory Requirements

Level 2 Acoustic Enclosure provides a noise level of 67.5dBA. It is EPA certified and meets NFPA 99 and 110 requirements(NFPA National Fire Protection Association). The RD025 generator engines is a tier 4 engine and meets the EPA final standards.

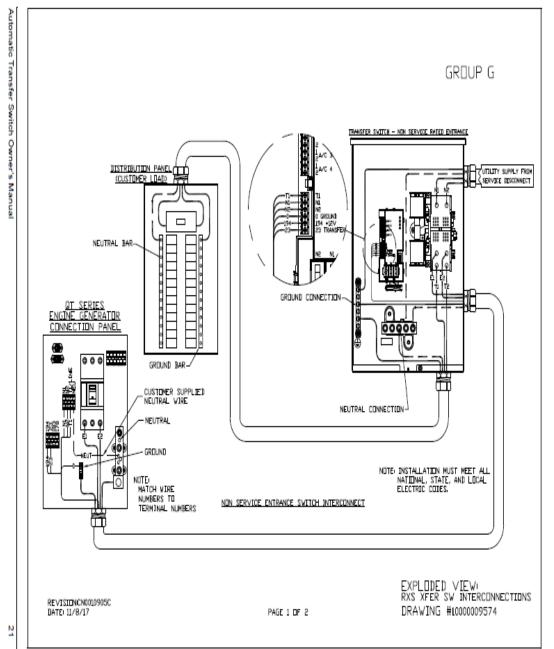
6 Configuration/Diagrams

The physical configuration of the Generator and the RXSC200A3 is, ATS before the PPC to ensure overcurrent protection when commercial power is restored. The RD025 and the RXSC200A3 has to be wired to Commercial AC power.

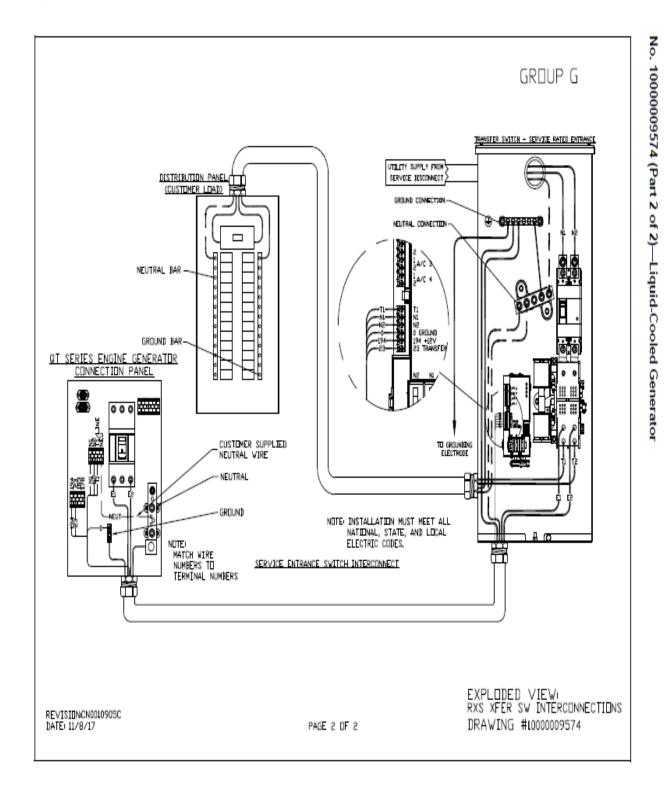


Commercial Power Connection Points On The RXSC200A3



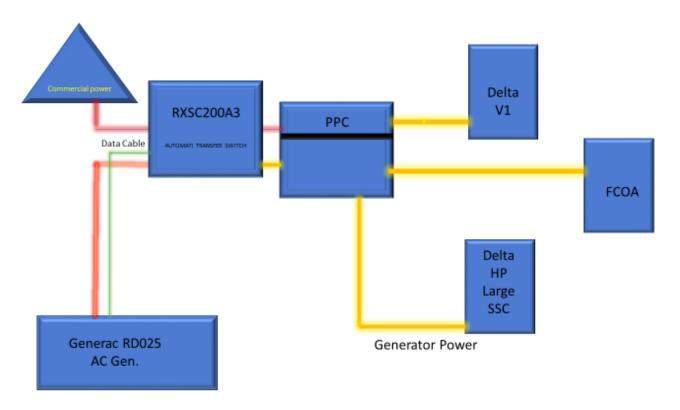








Compound Diagram:





7 Maintenance

T-Mobile is recommending preventive maintenance to be performed every 250 hours of runtime or every 12 months, whichever comes first.

T-Mobile requires this minimum service checklist for the generator engine:

- Check engine mounts and support. Tighten fasteners.
- Check all the engine hoses and clamps for proper fit, and any signs of cracking and fatigue from wear.
- Inspect all belts for signs of cracking and fatigue from wear and adjust for proper tension.
- Inspect the exhaust system for leaks, burns and wet stacking. Drain exhaust line and tighten any clamps and flange bolts.
- Inspect silencer and plumbing for leaks, cracks or any other signs of wear.
- Inspect the system for fuel, oil and coolant leaks and signs of corrosion.
- Replace water separator.
- Replace water filter/ conditioner.
- Check Anti-Freeze (Spector-Analysis).
- Check coolant level and add, if needed.
- Inspect radiator mounting for signs or wear and cracking.
- Inspect/ clean air filter and change per manufacturer specifications.
- Inspect air intakes and outlets and tighten clamps and brackets, if applicable.

- Replace fuel filter.
- Inspect the carburetor fuel injection system, fuel injection pump and choke, if equipped.
 Adjust to manufacturers specifications.
- Change engine oil, oil filter and record the date on the filter casing.
- Check engine heater operation, if equipped.
- Check and adjust the battery charger operations, and charge rate within the manufacturer's recommended operating specifications.



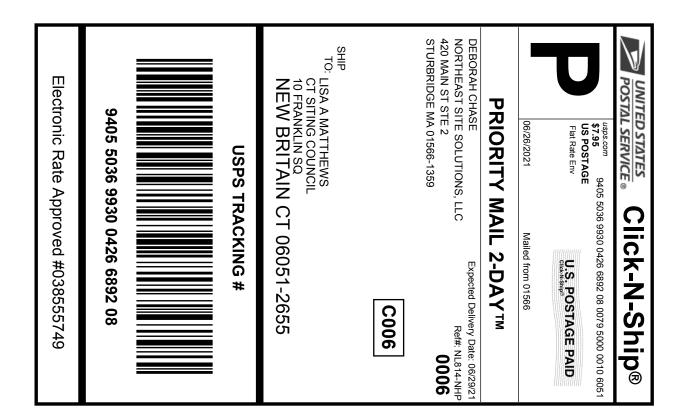
- Inspect the battery housing, hardware connections, and cables for corrosion and wear.
- Check the battery electrolyte levels and specific gravity levels.
- Load test generator battery.
- Check, adjust and record generator output voltage, as necessary.
- Check and record the alternator charge rate.
- During inspection run the generator for 30 minutes under load. During this time, and after the
 engine is at full operational speed and has reached engine operating temperature; determine
 and record the condition of all inspection points: oil pressure, water/ coolant temperature,
 Fuel pressure, generator gauge, indicator operations, generator battery.
- Check the engine timing and adjust to manufacturers specifications, if necessary.

Rev. 1.0 5/14/2018

- Inspect, adjust and record governor and frequency, if necessary.
- Verify that the low fuel alarm is operational and configured correctly to trigger when the fuel tank reaches 50% of fuel tank capacity.

Check fuel level and refuel the generator during the preventive/ corrective maintenance visit.

Exhibit E





Instructions

- 1. Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO **COPY OR ALTER LABEL.**
- 2. Place your label so it does not wrap around the edge of the package.
- 3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.
- 4. To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
- 5. Mail your package on the "Ship Date" you selected when creating this label.

Click-N-Ship® Label Record

USPS TRACKING #: 9405 5036 9930 0426 6892 08

536923731 06/24/2021 Trans. #: Print Date: Ship Date: 06/26/2021 06/29/2021 Delivery Date:

Priority Mail® Postage: Total:

\$7.95 \$7.95

From: DEBORAH CHASE Ref#: NL814-NHP

NORTHEAST SITE SOLUTIONS, LLC

420 MAIN ST STF 2

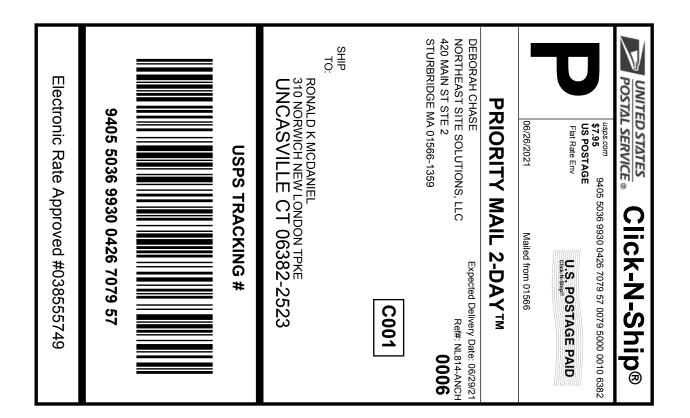
STURBRIDGE MA 01566-1359

LISA A MATTHEWS

CT SITING COUNCIL 10 FRANKLIN SQ

NEW BRITAIN CT 06051-2655

Exhibit F





Instructions

- 1. Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO **COPY OR ALTER LABEL.**
- 2. Place your label so it does not wrap around the edge of the package.
- 3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.
- 4. To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
- 5. Mail your package on the "Ship Date" you selected when creating this label.

Click-N-Ship® Label Record

USPS TRACKING #: 9405 5036 9930 0426 7079 57

536925185 06/24/2021 Trans. #: Print Date: Ship Date: 06/26/2021 06/29/2021 Delivery Date:

Priority Mail® Postage: Total:

\$7.95 \$7.95

From: DEBORAH CHASE Ref#: NL814-ANCH

NORTHEAST SITE SOLUTIONS, LLC

420 MAIN ST STF 2

STURBRIDGE MA 01566-1359

RONALD K MCDANIEL

310 NORWICH NEW LONDON TPKE UNCASVILLE CT 06382-2523





Instructions

- 1. Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO **COPY OR ALTER LABEL.**
- 2. Place your label so it does not wrap around the edge of the package.
- 3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.
- 4. To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
- 5. Mail your package on the "Ship Date" you selected when creating this label.

Click-N-Ship® Label Record

USPS TRACKING #: 9405 5036 9930 0426 7079 71

536925185 06/24/2021 Trans. #: Print Date: Ship Date: 06/26/2021 06/29/2021 Delivery Date:

Priority Mail® Postage: Total:

\$7.95 \$7.95

From: DEBORAH CHASE Ref#: NL814-ANCH

NORTHEAST SITE SOLUTIONS, LLC

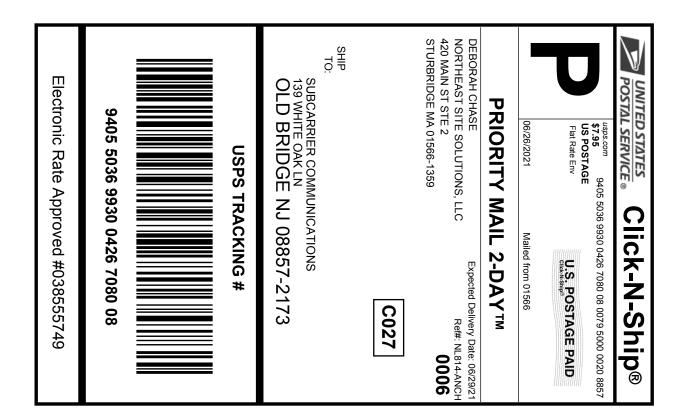
420 MAIN ST STF 2

STURBRIDGE MA 01566-1359

MARCIA A VLAUN

TOWN PLANNER

310 NORWICH NEW LONDON TPKE **UNCASVILLE CT 06382-2523**





Instructions

- 1. Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO **COPY OR ALTER LABEL.**
- 2. Place your label so it does not wrap around the edge of the package.
- 3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.
- 4. To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
- 5. Mail your package on the "Ship Date" you selected when creating this label.

Click-N-Ship® Label Record

USPS TRACKING #: 9405 5036 9930 0426 7080 08

536925185 06/24/2021 Trans. #: Print Date: Ship Date: 06/26/2021 06/29/2021 Delivery Date:

Priority Mail® Postage: Total:

\$7.95 \$7.95

From: DEBORAH CHASE Ref#: NL814-ANCH

NORTHEAST SITE SOLUTIONS, LLC

420 MAIN ST STF 2

STURBRIDGE MA 01566-1359

SUBCARRIER COMMUNICATIONS

139 WHITE OAK LN OLD BRIDGE NJ 08857-2173