



Filed by:

G. Scott Shepherd, Sr. Property Specialist - SBA Communications  
134 Flanders Rd., Suite 125, Westborough, MA 01581  
508.251.0720 x 3807 - GShepherd@sbsite.com

September 7, 2021

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

**RE: Notice of Exempt Modification**  
**220 Winthrop Rd., Deep River, CT**  
**Latitude: 41.365818**  
**Longitude: -72.474929**  
**T-Mobile Site #: CT11408A\_Hardening**

Dear Ms. Bachman:

T-Mobile currently maintains six (6) antennas at the 137-foot level of the existing 155-foot Monopole Tower at 246 East Franklin St., Danielson, CT. The tower is owned by SBA 2012 TC Assets, LLC. The property is owned by The Town of Deep River. T-Mobile now intends to add one (1) Generac RD025 Diesel generator and 4' x 10' concrete pad, within a 49' 8" x 50' 7" fenced compound lease area. The proposed generator and concrete pad will sit fully within the leased area of the compound and will not require additional space for the supplementary tank.

## Ground

### Install New:

- (1) Generac RD0 25kw Diesel generator
- (1) RGS conduit for Ethernet cable for generator & Alarms
- (1) 2" RGS conduit for emergency power
- (1) 1-1/2" RGS conduit for generator heater & Battery
- (1) 4' x 10' concrete pad
- (1) 2" RGS conduit for emergency power from proposed ATS & existing PPC
- Generac 200A, 120/240v automatic transfer switch to existing H-Frame (install additional P1000 Unistruct posts)



Remaining:

- Emerson Nextend compact 2416 fiber cabinet
- T-Mobile cables along existing Ice Bridge
- Existing T-Mobile Ice Bridge
- Exist. AT&T backboard
- Existing 28' 1" x 28' 1" concrete tower foundation
- T-Mobile GPS antenna
- T-Mobile radios mounted to existing post
- Electrical panel
- Ericsson RBS6201 equipment cabinet

**Reason for Request / Change in Generator Size and Fuel**

In an effort to further enhance network reliability, T-Mobile is proposing to install a diesel-based backup generator, the Generac RD025 25kw Diesel Generator. T-Mobile is currently in the middle of a National Hardening Project.

The proposed diesel generator measures 84.2" x 35" x 91.7" (w/fuel tank: 103.4" x 35" x 91.7"). It will sit fully within the leased area of the compound and will not require additional space for the supplementary tank.

Generac's RD025 25kw Diesel Generator carries up to 98 hours of run time with 100% load, 125 hours of run time with a 75% load and 161 hours of run time with a 50% load. It can operate in temperatures of 122 degrees Fahrenheit.

**Monitoring, Prevention and Containment Measures**

It will be filled by a licensed fuel filling company. The Generac's RD025 25kw Diesel Generator is fuel efficient, rodent and corrosion resistant, and has a sound attenuated aluminum enclosure with a Rated Load Sound Output at 23ft. of -65dB. It further supports advanced, remote monitoring for diagnostics and control and is installed with a tank alarm system. The Sound Output from the Generac RD025kw meets/exceeds the allowable noise emissions levels for the Town of Deep River, Middlesex County, which is as follows:

**Maximum Continuous Noise Levels (measured in dBA):**

**Unable to obtain noise ordinance/regulations that specifically pertain to the Town of Deep River or Middlesex County. Neither the Town of Deep River's website nor the Connecticut Siting Council's Noise Pollution Control database listed any information pertaining to the Town of Deep River or Middlesex county.**

The standard noise allowances taken from other towns in CT are as stated below:



|              | <u>dBA</u> | <u>dBA</u> | <u>dBA</u> | <u>dBA</u> |
|--------------|------------|------------|------------|------------|
| Industrial:  | 70         | 66         | 61         | 51         |
| Business:    | 62         | 62         | 55         | 45         |
| Residential: | 62         | 55         | 55         | 45         |

The proposed modification will remain within the existing 49' 8" x 50' 7" fenced compound. The new generator and tank will be surrounded by the existing security fence and 4' x 6' wide main gate and a 11' wide double swing gate and will be placed on a plinth secured to a proposed 4' x 10' concrete pad.

Additional safety specifications:

- Automatic Voltage Regulation with Over and Under Protection
- Overspeed Shutdown
- High Temperature Shutdown
- Meets ANSI/IEEE C62.41, SA CSA 22.2, SAE J1349, NFPA 37, 70 99

**Revised Construction Drawings and Full Spec Sheets referencing the above are attached herewith.**

The revised ground configuration continues to meet all requirements for a Notice of Exempt Modifications. The request remains technically, legally, environmentally, and economically feasible and meets public safety concerns per Connecticut General Statute Section 16-50aa.

There is no environmental impact associated with the revised ground configuration, including, but not limited to, visibility, wetlands and water resources, air quality or noise.

T-Mobile's revised ground configuration:

- Will not have any significant adverse visual impact on the surrounding areas
- Does not affect or alter the existing site with regard to wetlands, water resources or air quality
- The generator would only be used in cases of emergency and would provide backup time of approximately 60 hours in time of need.

The proposed work is not thought to have any substantial adverse environmental impact. Public Need for the additional coverage outweighs any minor environmental effects that would result from the construction, operation, and maintenance of the proposed collocation.

**A Map of the Site Showing Nearest Wetlands, depicted in feet, is attached herewith.**

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. §16.50j-72(b)(2). In accordance with R.C.S.A. § 16.50j-73, a copy of this letter is being sent to the Town of Deep River's First Selectman, Angus L. McDonald Jr., and Co Zoning Enforcement Officer, Mike D'Amato. The property is owned by the Town of Deep River. (Separate notice is not being sent to tower owner, as it belongs to SBA.)



The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. §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 modification 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 modification 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 telecommunication facility constitute an exempt modifications under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

G. Scott Shepherd  
Sr. Property Specialist  
SBA COMMUNICATIONS CORPORATION  
134 Flanders Rd., Suite 125  
Westborough, MA 01581  
508.251.0720 x3807 + T  
508.366.2610 + F  
508.868.6000 + C  
[GShepherd@sbsite.com](mailto:GShepherd@sbsite.com)  
Attachments

cc: Angus L. McDonald Jr., First Selectman / with attachments  
Deep River Town Hall 174 Main St., Deep River, CT 06417  
Mike D'Amato Co Zoning Enforcement Officer / with attachments  
Deep River Town Hall 174 Main St., Deep River, CT 06417

#### Exhibit List

|           |                                 |                  |
|-----------|---------------------------------|------------------|
| Exhibit 1 | Check Copy                      | x                |
| Exhibit 2 | FedEx Labels                    | x                |
| Exhibit 3 | Construction Plans              | Chappell 8/27/21 |
| Exhibit 4 | Diesel Generator Specifications | x                |
| Exhibit 5 | Wetlands Map                    | x                |

# EXHIBIT 1

Copy of Check for filing fee.

# EXHIBIT 2

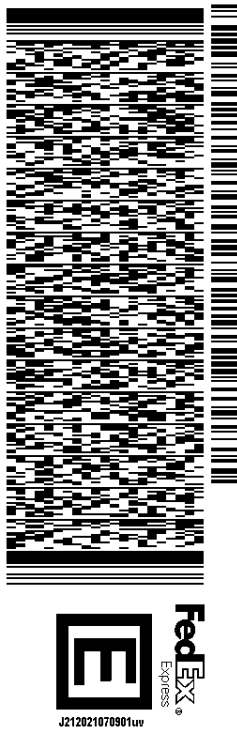
## FedEx Labels

ORIGIN ID:BFBA (508) 614-0389  
 RICK WOODS  
 SBA COMMUNICATIONS CORPORATION  
 134 FLANDERS RD  
 SUITE 125  
 WESTBOROUGH, MA 01581  
 UNITED STATES US

SHIP DATE: 07/SEP/21  
 ACTWGT: 2.00 LB  
 CAD: 105843304/NET14400  
 BILL SENDER

TO **MELANIE A. BACHMAN EXEC. DIR**  
**CONNECTICUT SITING COUNCIL**  
**TEN FRANKLIN SQUARE**

**NEW BRITAIN CT 06051**  
 (508) 251-0720 X.3807 REF: 105692009-6089  
 INV# DEPT:



TRK# 2834 0350 7206  
 0201  
 WED - 08 SEP 10:30A  
 PRIORITY OVERNIGHT

**EBBDLA**  
 CT:US **BDL**  
 06051

A large barcode is positioned below the EBBDLA text.

56DJ3/169A/FE4A

**After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



TRACK ANOTHER SHIPMENT

283403507206


[ADD NICKNAME](#)

Scheduled delivery:  
Wednesday, September 8, 2021 before 10:30 am

**IN TRANSIT**

On FedEx vehicle for delivery  
WINDSOR LOCKS, CT

[GET STATUS UPDATES](#)
**FROM**

SBA COMMUNICATIONS CORPORATION  
Rick Woods  
134 Flanders Rd  
Suite 125  
WESTBOROUGH, MA US 01581  
508-614-0389

**TO**

Melanie A. Bachman Exec. Dir  
Connecticut Siting Council  
Ten Franklin Square  
NEW BRITAIN, CT US 06051  
508-251-0720

[MANAGE DELIVERY](#)

## Travel History

**TIME ZONE**

Local Scan Time



## Wednesday, September 8, 2021

|         |                   |                               |
|---------|-------------------|-------------------------------|
| 8:38 AM | WINDSOR LOCKS, CT | On FedEx vehicle for delivery |
| 7:38 AM | WINDSOR LOCKS, CT | At local FedEx facility       |
| 5:57 AM | EAST GRANBY, CT   | At destination sort facility  |
| 5:07 AM | NEWARK, NJ        | Departed FedEx hub            |

## Tuesday, September 7, 2021

|         |                |                                    |
|---------|----------------|------------------------------------|
| 8:04 PM | FRAMINGHAM, MA | Left FedEx origin facility         |
| 4:27 PM | FRAMINGHAM, MA | Picked up                          |
| 1:42 PM |                | Shipment information sent to FedEx |

## Shipment Facts



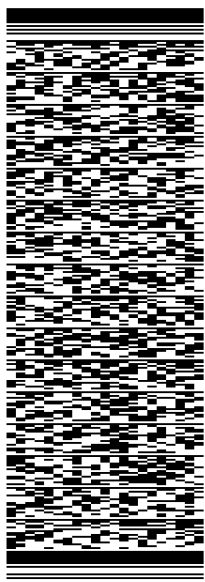
|  |   |   |
|--|---|---|
| <b>TRACKING NUMBER</b><br>283403507206       | <b>SERVICE</b><br>FedEx Priority Overnight                          | <b>WEIGHT</b><br>2 lbs / 0.91 kgs                   |
| <b>TOTAL PIECES</b><br>1                     | <b>TOTAL SHIPMENT WEIGHT</b><br>2 lbs / 0.91 kgs                    | <b>TERMS</b><br>Shipper                             |
| <b>SHIPPER REFERENCE</b><br>10-56-92009-6089 | <b>PACKAGING</b><br>FedEx Pak                                       | <b>SPECIAL HANDLING SECTION</b><br>Deliver Weekday  |
| <b>SHIP DATE</b><br>9/7/21 <a href="#">?</a> | <b>STANDARD TRANSIT</b><br>9/8/21 before 10:30 am <a href="#">?</a> | <b>SCHEDULED DELIVERY</b><br>9/8/21 before 10:30 am |

ORIGIN ID:BFBA (508) 614-0389  
RICK WOODS  
SBA COMMUNICATIONS CORPORATION  
134 FLANDERS RD  
SUITE 125  
WESTBOROUGH, MA 01581  
UNITED STATES US

SHIP DATE: 07/SEP/21  
ACTWGT: 1.00 LB  
CAD: 105843304/NET4400  
BILL SENDER

TO  
ANGUS L. MCDONALD  
DEEP RIVER TOWN HALL  
FIRST SELECTMAN  
174 MAIN ST.,  
DEEP RIVER CT 06417  
(508) 251-0720 X.3807 REF: 105692009-6089  
INV# DEPT:

56DJ3/169AFE4A



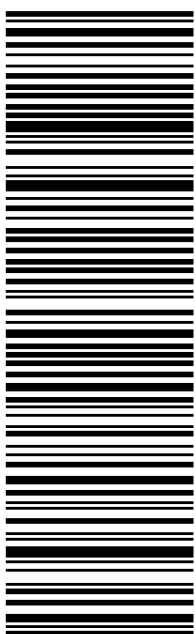
J212021070901uv

TRK# 2834 0329 3884  
0201

WED - 08 SEP 12:00P  
PRIORITY OVERNIGHT

EB RSPA

06417  
BDL  
CT:US



**After printing this label:**

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2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



TRACK ANOTHER SHIPMENT

283403293884

[ADD NICKNAME](#)

Scheduled delivery:  
Wednesday, September 8, 2021 before 12:00 pm

**IN TRANSIT**

At FedEx destination facility  
NORTH HAVEN, CT

[GET STATUS UPDATES](#)**FROM**

SBA COMMUNICATIONS CORPORATION  
Rick Woods  
134 Flanders Rd  
Suite 125  
WESTBOROUGH, MA US 01581  
508-614-0389

**TO**

Angus L. McDonald  
Deep River Town Hall  
First Selectman  
174 Main St.,  
DEEP RIVER, CT US 06417  
508-251-0720

[MANAGE DELIVERY](#)

## Travel History

**TIME ZONE**

Local Scan Time

## Wednesday, September 8, 2021

|         |                 |                         |
|---------|-----------------|-------------------------|
| 8:41 AM | NORTH HAVEN, CT | At local FedEx facility |
| 4:09 AM | NEWARK, NJ      | Departed FedEx hub      |

## Tuesday, September 7, 2021

|         |                |                                    |
|---------|----------------|------------------------------------|
| 8:04 PM | FRAMINGHAM, MA | Left FedEx origin facility         |
| 4:27 PM | FRAMINGHAM, MA | Picked up                          |
| 1:41 PM |                | Shipment information sent to FedEx |

## Shipment Facts

**TRACKING NUMBER**

283403293884

**SERVICE**

FedEx Priority Overnight

**WEIGHT**

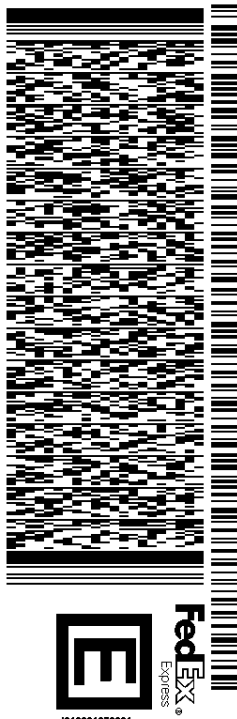
1 lbs / 0.45 kgs

ORIGIN ID:BFBA (508) 614-0389  
RICK WOODS  
SBA COMMUNICATIONS CORPORATION  
134 FLANDERS RD  
SUITE 125  
WESTBOROUGH, MA 01581  
UNITED STATES US

SHIP DATE: 07/SEP/21  
ACTWGT: 1.00 LB  
CAD: 105843304/NET4400  
BILL SENDER

TO **MIKE D'AMATO**  
**DEEP RIVER TOWN HALL**  
**CO ZONING ENFORCEMENT OFFICER**  
**174 MAIN ST.,**  
**DEEP RIVER CT 06417**  
(508) 251-0720 X.3807 REF: 1056-92009-6089  
INV. PO. DEPT:

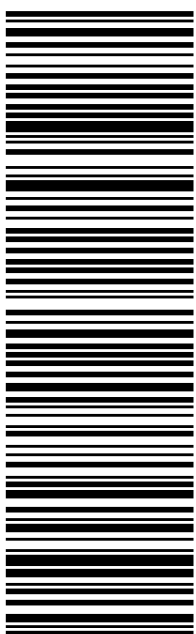
56DJ3/169A/FE4A



TRK# 2834 0342 1994  
0201  
WED - 08 SEP 12:00P  
PRIORITY OVERNIGHT

**EB RSPA**

06417  
BDL  
CT:US



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TRACK ANOTHER SHIPMENT

283403421994


[ADD NICKNAME](#)

Scheduled delivery:  
Wednesday, September 8, 2021 before 12:00 pm

**IN TRANSIT**

At FedEx destination facility  
NORTH HAVEN, CT

[GET STATUS UPDATES](#)
**FROM**

SBA COMMUNICATIONS CORPORATION  
Rick Woods  
134 Flanders Rd  
Suite 125  
WESTBOROUGH, MA US 01581  
508-614-0389

**TO**

Mike D'Amato  
Deep River Town Hall  
Co Zoning Enforcement Officer  
174 Main St.,  
DEEP RIVER, CT US 06417  
508-251-0720

[MANAGE DELIVERY](#)

## Travel History

**TIME ZONE**

Local Scan Time



## Wednesday, September 8, 2021

|         |                 |                         |
|---------|-----------------|-------------------------|
| 8:45 AM | NORTH HAVEN, CT | At local FedEx facility |
| 4:09 AM | NEWARK, NJ      | Departed FedEx hub      |

## Tuesday, September 7, 2021

|         |                |                                    |
|---------|----------------|------------------------------------|
| 8:04 PM | FRAMINGHAM, MA | Left FedEx origin facility         |
| 4:27 PM | FRAMINGHAM, MA | Picked up                          |
| 1:42 PM |                | Shipment information sent to FedEx |

## Shipment Facts

**TRACKING NUMBER**

283403421994

**SERVICE**

FedEx Priority Overnight

**WEIGHT**

1 lbs / 0.45 kgs



## EXHIBIT 3

# Construction Drawings

# DEEP RIVER WINTHROP ROAD

220 WINTHROP ROAD  
DEEP RIVER, CT 06417  
MIDDLESEX COUNTY

SITE NO.: CT11408A

SITE TYPE: 180'± MONOPOLE

PROJECT TYPE: NATIONAL HARDENING PROJECT

T-MOBILE  
NORTHEAST LLC

15 COMMERCE WAY, SUITE B  
NORTON, MA 02766  
(508) 286-2700



SBA COMMUNICATIONS CORP.  
134 FLANDERS ROAD, SUITE 125  
WESTBOROUGH, MA 01581  
(508) 251-0720



R.K. EXECUTIVE CENTRE  
201 BOSTON POST ROAD WEST, SUITE 101  
MARLBOROUGH, MA 01752  
(508) 481-7400  
www.chappellengineering.com



## APPROVALS

|                  |       |                   |       |
|------------------|-------|-------------------|-------|
| PROJECT MANAGER: | DATE: | ZONING/SITE ACQ.: | DATE: |
| CONSTRUCTION:    | DATE: | OPERATIONS:       | DATE: |
| RF ENGINEERING:  | DATE: | TOWER OWNER:      | DATE: |

## T-MOBILE TECHNICIAN SITE SAFETY NOTES

| LOCATION          | SPECIAL RESTRICTIONS        |
|-------------------|-----------------------------|
| SECTOR A:         | ACCESS BY CERTIFIED CLIMBER |
| SECTOR B:         | ACCESS BY CERTIFIED CLIMBER |
| SECTOR C:         | ACCESS BY CERTIFIED CLIMBER |
| SECTOR D:         | ACCESS BY CERTIFIED CLIMBER |
| GPS/LMU:          | UNRESTRICTED                |
| RADIO CABINETS:   | UNRESTRICTED                |
| PPC DISCONNECT:   | UNRESTRICTED                |
| MAIN CIRCUIT D/C: | UNRESTRICTED                |
| NIU/T DEMARC:     | UNRESTRICTED                |
| OTHER/SPECIAL:    | NONE                        |

## GENERAL NOTES

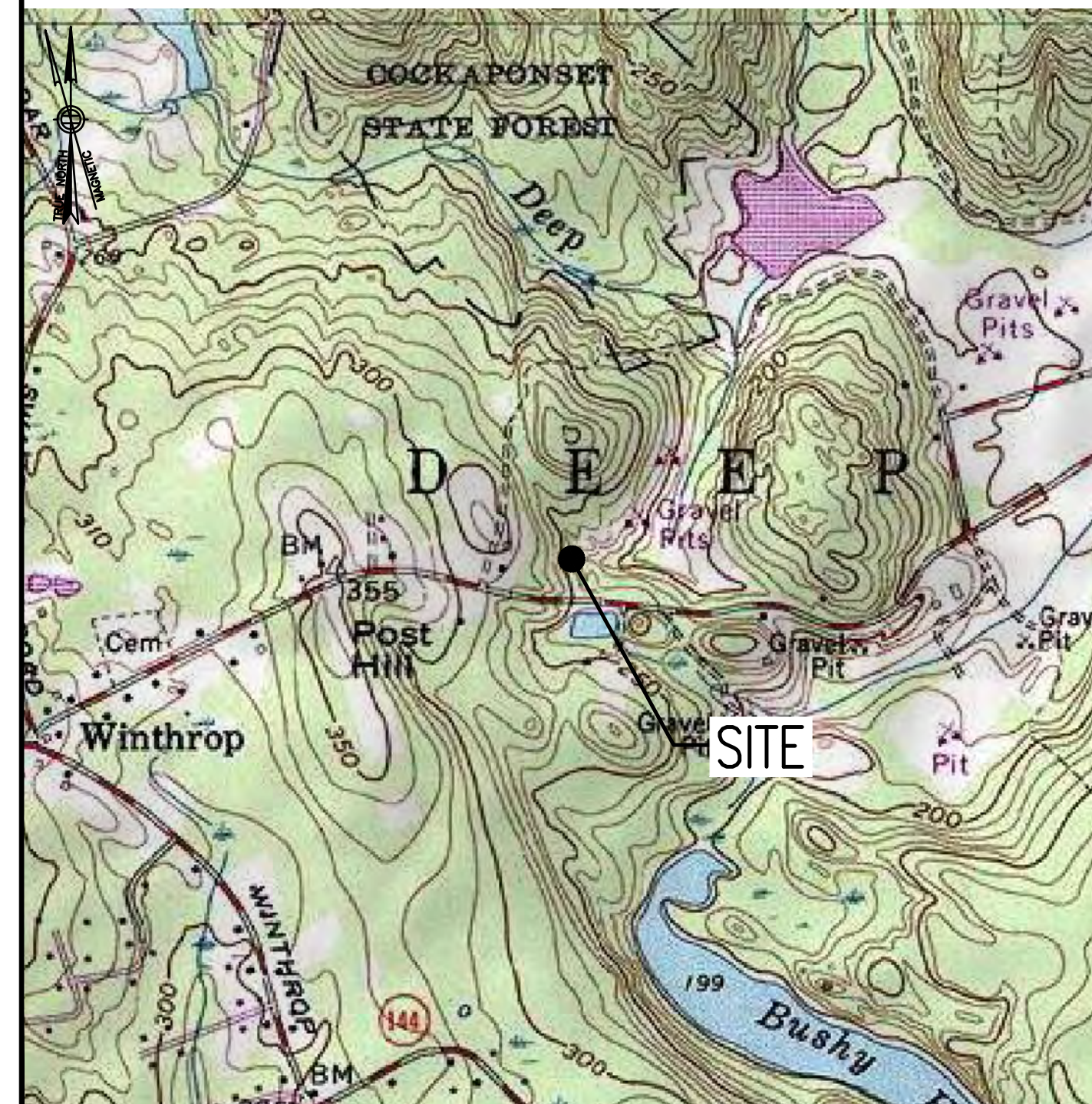
- THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- THE ARCHITECT/ENGINEER HAVE 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.
- THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE OMBUSMAN REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
- THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
- 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 CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
- 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.
- THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS, ESTABLISHING AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS AS SHOWN HEREIN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
- THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
- THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
- THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
- THE CONTRACTOR SHALL NOTIFY THE PROJECT OWNER'S REPRESENTATIVE 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 LESSEE/LICENSEE REPRESENTATIVE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
- ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK.

AT LEAST 72 HOURS PRIOR TO DIGGING, THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT 811



## VICINITY MAP

SCALE: 1" = 1000'-0"



## DIRECTIONS

MERGE ONTO I-495 NORTH TOWARD MANSFIELD/MARLBORO. TAKE EXIT 33B FOR I-95 SOUTH TOWARD PROVIDENCE RI. KEEP RIGHT AT FORK TO STAY ON I-95 SOUTH. USE RIGHT 2 LANES TO TAKE EXIT 69 FOR CT-9 NORTH TOWARD ESSEX/HARTFORD. CONTINUE ONTO CT-9 NORTH. TAKE EXIT 4 TOWARD CT-154 NORTH. TURN LEFT ONTO CT-154 NORTH. TURN LEFT ONTO KELSEY HILL ROAD. TURN RIGHT ONTO STATE HIGHWAY 602. CONTINUE ONTO CT-80 WEST. TURN RIGHT ONTO TRANSFER STATION ROAD. BEAR LEFT TO STAY ON TRANSFER HILL ROAD. SITE IS LOCATED AT THE END OF THE ROAD.

## SHEET INDEX

| SHEET NO. | DESCRIPTION                  | REV. NO. |
|-----------|------------------------------|----------|
| T-1       | TITLE SHEET                  | 1        |
| GN-1      | GENERAL NOTES                | 1        |
| A-1       | COMPOUND & EQUIPMENT PLANS   | 1        |
| A-2       | GENERATOR DETAILS            | 1        |
| A-3       | GENERATOR SPECIFICATIONS 1   | 1        |
| A-4       | GENERATOR SPECIFICATIONS 2   | 1        |
| E-1       | ELECTRIC & GROUNDING DETAILS | 1        |

## DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

## SCOPE OF WORK

| REMOVE: | INSTALL:                      |
|---------|-------------------------------|
| • NONE  | • 1 GENERATOR                 |
|         | • 1 AUTOMATIC TRANSFER SWITCH |
|         | • 2 20A-1P BREAKERS           |

## SITE NOTES

- THIS IS AN UNMANNED AND RESTRICTED ACCESS TELECOMMUNICATION FACILITY, AND IS NOT FOR HUMAN HABITATION. IT WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNAL FOR THE PURPOSE OF PROVIDING PUBLIC CELLULAR SERVICE.
  - ADA COMPLIANCE NOT REQUIRED.
  - POTABLE WATER OR SANITARY SERVICE IS NOT REQUIRED.
  - NO OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES REQUIRED.
- CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON 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 PLACE THE RESPONSIBILITY ON THE CONTRACTOR TO CORRECT THE DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.
- NEW CONSTRUCTION WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.
  - BUILDING CODE: 2018 CONNECTICUT STATE BUILDING CODE
  - ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE
  - STRUCTURAL CODE: TIA/EIA-222-G STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.

## PROJECT SUMMARY

|                      |  |
|----------------------|--|
| SITE NUMBER:         | CT11408A   |
| SITE NAME:           | DEEP RIVER WINTHROP ROAD   |
| SBA SITE NUMBER:     | CT46130-A  |
| SBA SITE NAME:       | DEEP RIVER WINTHROP ROAD   |
| SITE ADDRESS:        | 220 WINTHROP ROAD<br>DEEP RIVER, CT 06417  |
| PROPERTY OWNER:      | THE TOWN OF DEEP RIVER<br>174 MAIN STREET<br>DEEP RIVER, CT 06417                                      |
| TOWER OWNER:         | SBA 2012 TC ASSETS, LLC<br>8501 CONGRESS AVENUE<br>BOCA RATON, FL 33487<br>PHONE: 561-226-9523         |
| COUNTY:              | MIDDLESEX  |
| ZONING DISTRICT:     | R-80 (VERY LOW DENSITY RESIDENTIAL)  |
| STRUCTURE TYPE:      | MONOPOLE   |
| STRUCTURE HEIGHT:    | 180'±  |
| APPLICANT:           | T-MOBILE NORTHEAST LLC<br>15 COMMERCE WAY, SUITE B<br>NORTON, MA 02766                                 |
| ARCHITECT:           | CHAPPELL ENGINEERING ASSOCIATES, LLC.<br>201 BOSTON POST ROAD WEST, SUITE 101<br>MARLBOROUGH, MA 01752 |
| STRUCTURAL ENGINEER: | CHAPPELL ENGINEERING ASSOCIATES, LLC.<br>201 BOSTON POST ROAD WEST, SUITE 101<br>MARLBOROUGH, MA 01752 |
| SITE CONTROL POINT:  | LATITUDE: 41.365818° N41°21'56.94"<br>LONGITUDE: -72.474929° W72°28'29.74"                             |

**SPECIAL ZONING NOTE:**  
BASED ON INFORMATION PROVIDED BY T-MOBILE REGULATORY COMPLIANCE PROFESSIONALS AND LEGAL COUNSEL, THIS TELECOMMUNICATIONS EQUIPMENT DEPLOYMENT IS CONSIDERED AN ELIGIBLE FACILITY UNDER THE MIDDLE CLASS TAX RELIEF AND JOB CREATION ACT OF 2012, 47 USC 1455(A), SECTION 6409(A), AND IS SUBJECT TO AN ELIGIBLE FACILITY REQUEST, EXPEDITED REVIEW, AND LIMITED/PARTIAL ZONING PRE-EMPTION FOR LOCAL DISCRETIONARY PERMITS (VARIANCE, SPECIAL PERMIT, SITE PLAN REVIEW, OR ADMINISTRATIVE REVIEW).

CHECKED BY: JMT

APPROVED BY: JMT

## SUBMITTALS

| REV. | DATE     | DESCRIPTION             | BY  |
|------|----------|-------------------------|-----|
| 1    | 08/27/21 | ISSUED FOR CONSTRUCTION | CMC |
| 0    | 08/05/21 | ISSUED FOR REVIEW       | CMC |

SITE NUMBER:  
**CT11408A**

SITE ADDRESS:  
220 WINTHROP ROAD  
DEEP RIVER, CT 06417

SHEET TITLE

TITLE SHEET

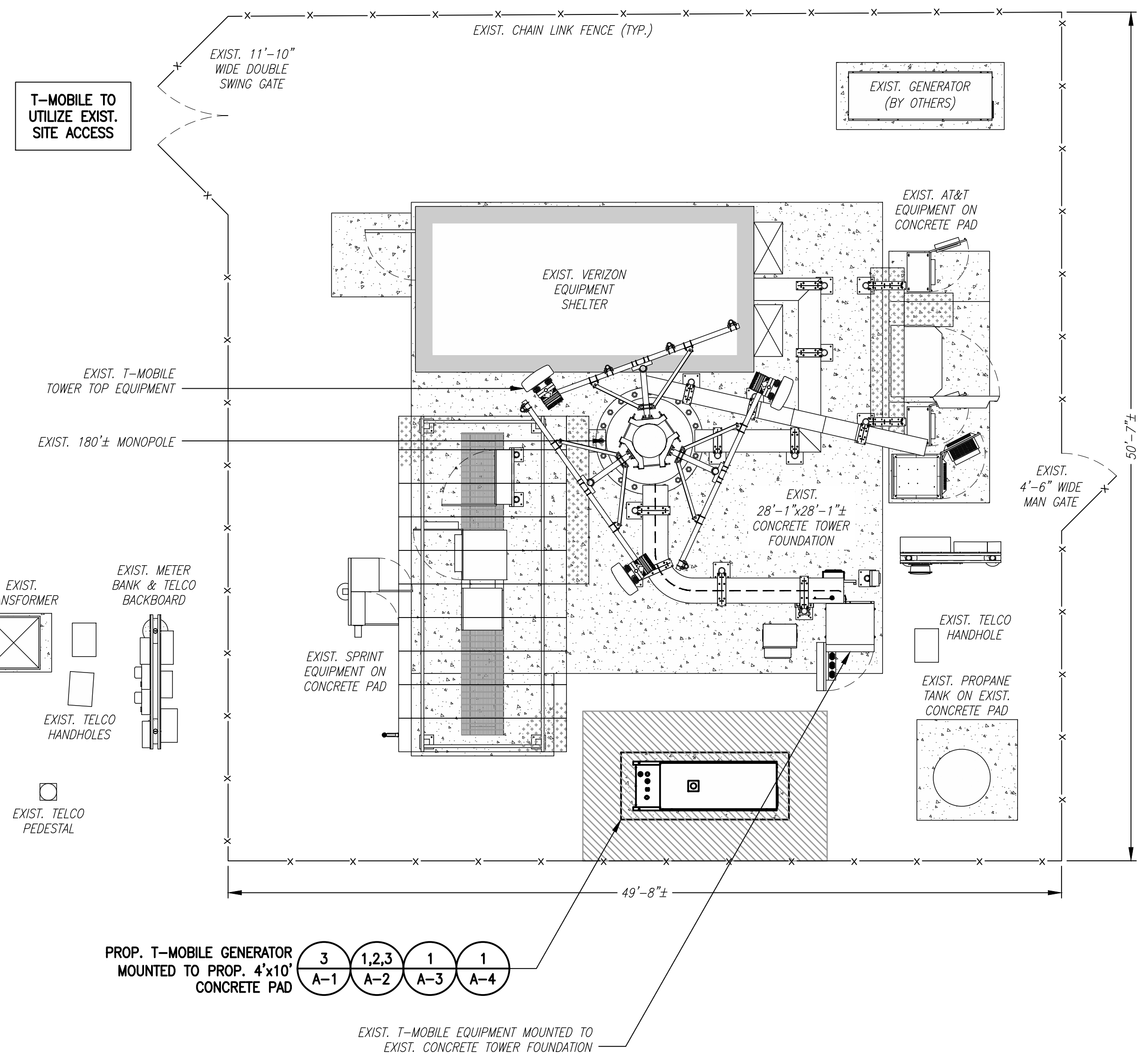
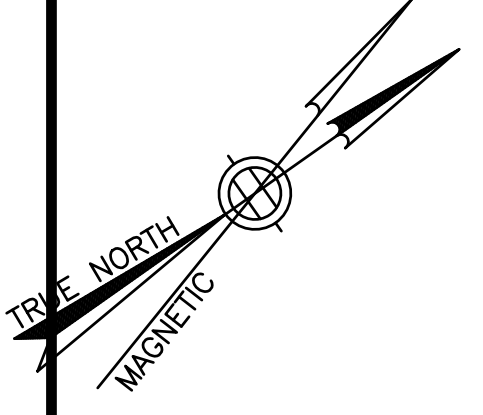
SHEET NUMBER

**T-1**

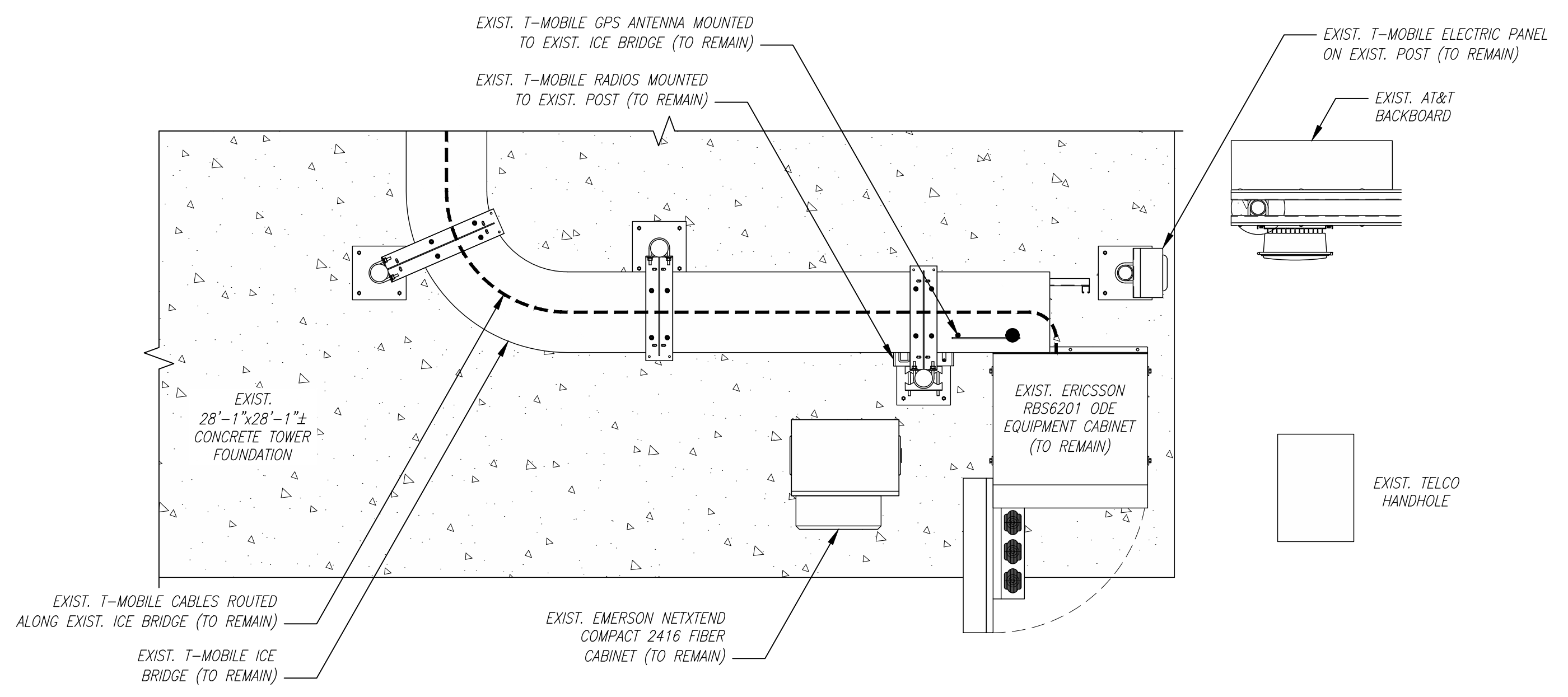




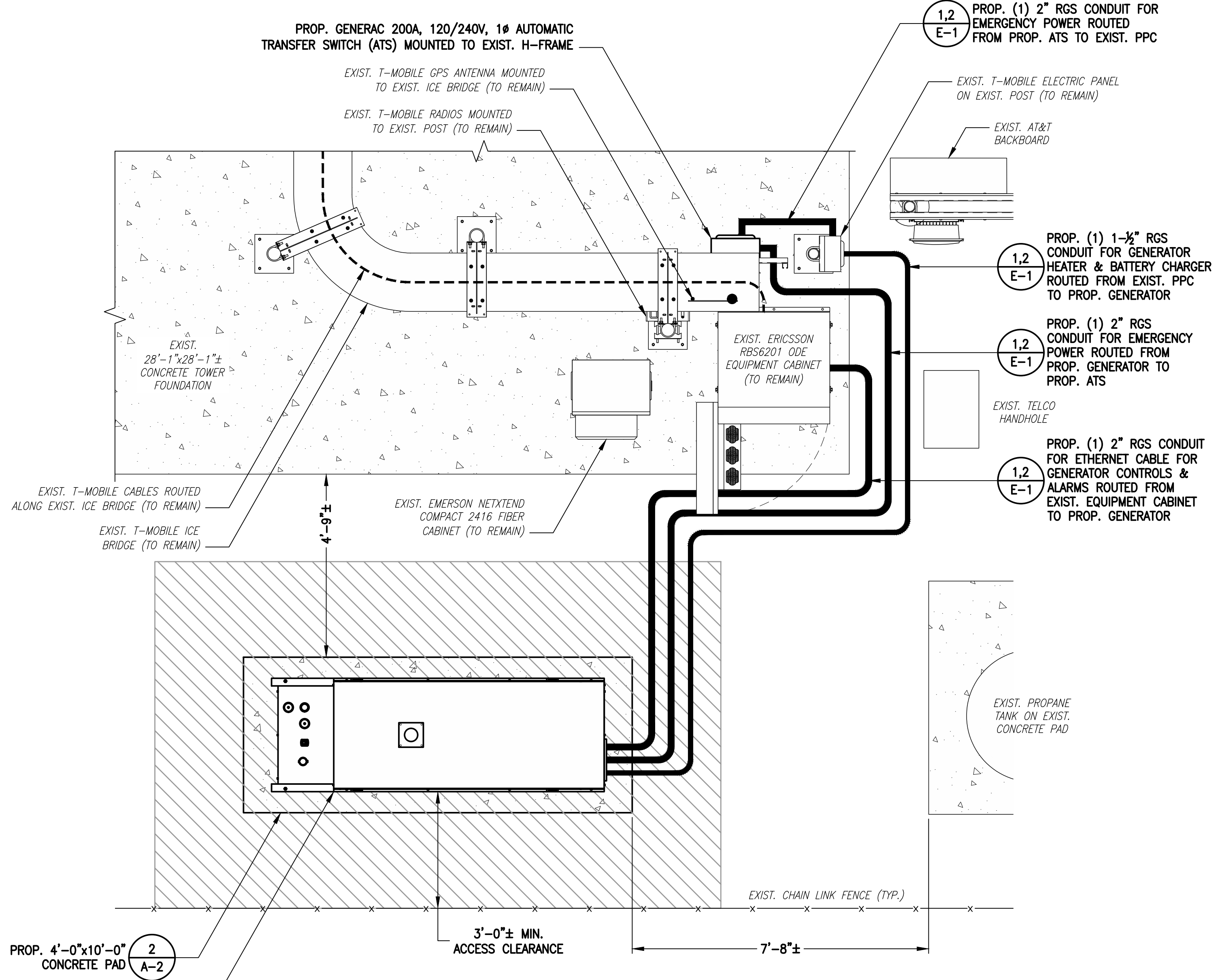
**SPECIAL CONSTRUCTION WORK NOTE (HAND DUG UTILITY TRENCH EXCAVATION REQUIRED):**  
 EXISTING UNDERGROUND UTILITY LOCATIONS ARE UNKNOWN. GENERAL CONTRACTOR SHALL HAND-EXCAVATE TO REQUIRED SUB-GRADE DEPTH SUFFICIENT TEST HOLES OR AS DIRECTED/REQUIRED BY SBA REGIONAL SITE MANAGER SHALL HAND-EXCAVATE ALL PROPOSED UNDERGROUND UTILITY TRENCHES. GENERAL CONTRACTOR RESPONSIBLE FOR ANY REQUIRED SPECIAL TEMPORARY PROTECTION OF EXISTING UNDERGROUND UTILITIES, PHYSICAL DAMAGE REPAIR, AND SERVICE RESTORATION.



**COMPOUND PLAN** 1  
 SCALE: 3/16" = 1'-0"  
 0 5'-4" 10'-8" 16'-0"



**EXISTING EQUIPMENT PLAN** 2  
 SCALE: 1/2" = 1'-0"  
 0 2' 4' 6'



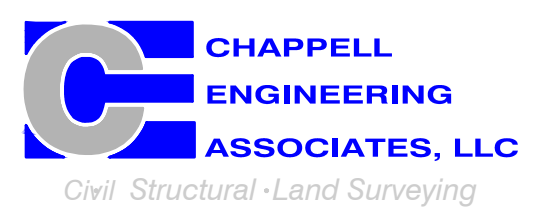
**PROPOSED EQUIPMENT PLAN** 3  
 SCALE: 1/2" = 1'-0"  
 0 2' 4' 6'

**T-MOBILE  
NORTHEAST LLC**

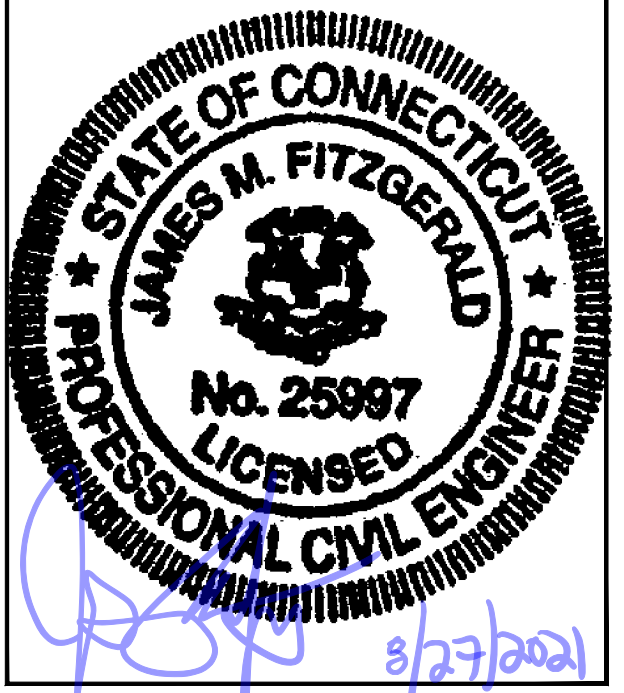
15 COMMERCE WAY, SUITE B  
NORTON, MA 02766  
(508) 286-2700



SBA COMMUNICATIONS CORP.  
134 FLANDERS ROAD, SUITE 125  
WESTBOROUGH, MA 01581  
(508) 251-0720



R.K. EXECUTIVE CENTRE  
201 BOSTON POST ROAD WEST, SUITE 101  
MARLBOROUGH, MA 01752  
(508) 481-7400  
www.chappellengineering.com



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| SUBMITTALS |          |                         |     |
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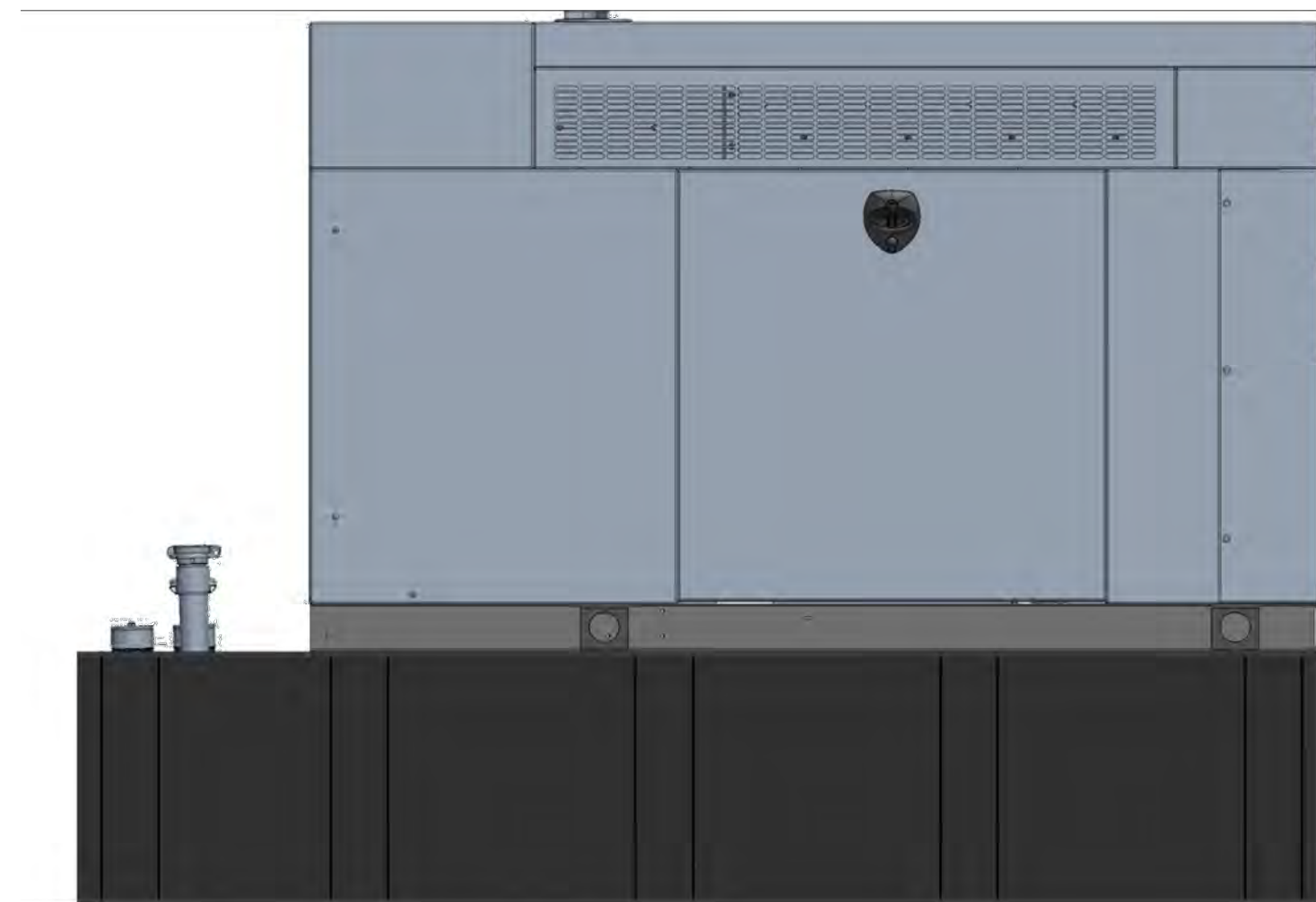
SITE NUMBER:  
**CT11408A**

SITE ADDRESS:  
220 WINTHROP ROAD  
DEEP RIVER, CT 06417

SHEET TITLE  
**COMPOUND & EQUIPMENT PLAN**

SHEET NUMBER  
**A-1**

**NOTE:**  
GENERATOR DIESEL TANK TO  
BE FILLED BY CONTRACTOR



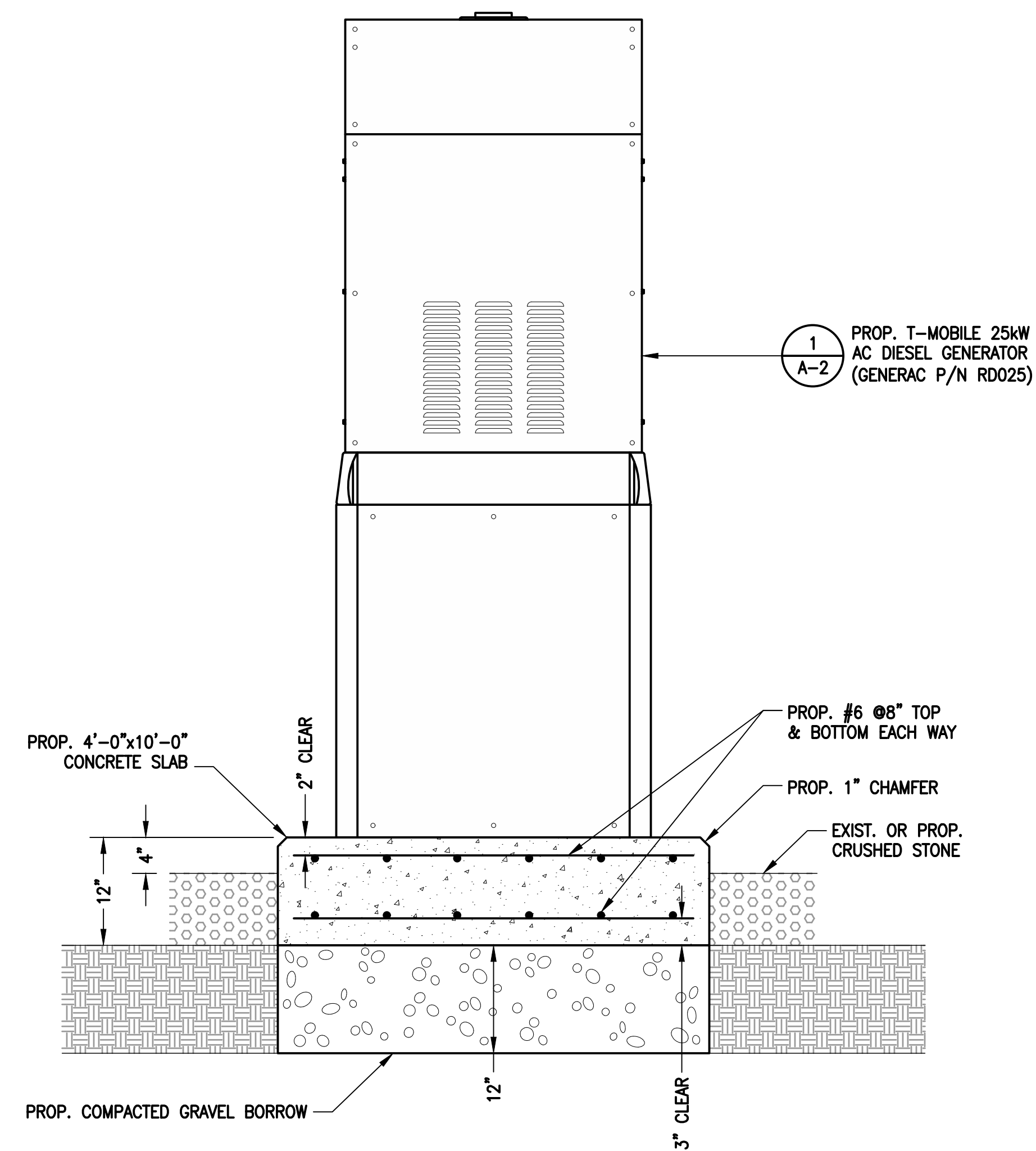
**GENERAC RD025 25kW AC DIESEL GENERATOR**

DIMENSIONS: 103.4"L x 35.0"W x 91.7"H  
WEIGHT: 2,946 lbs  
QUANTITY: TOTAL OF 1

**GENERATOR DETAIL**

SCALE: N.T.S.

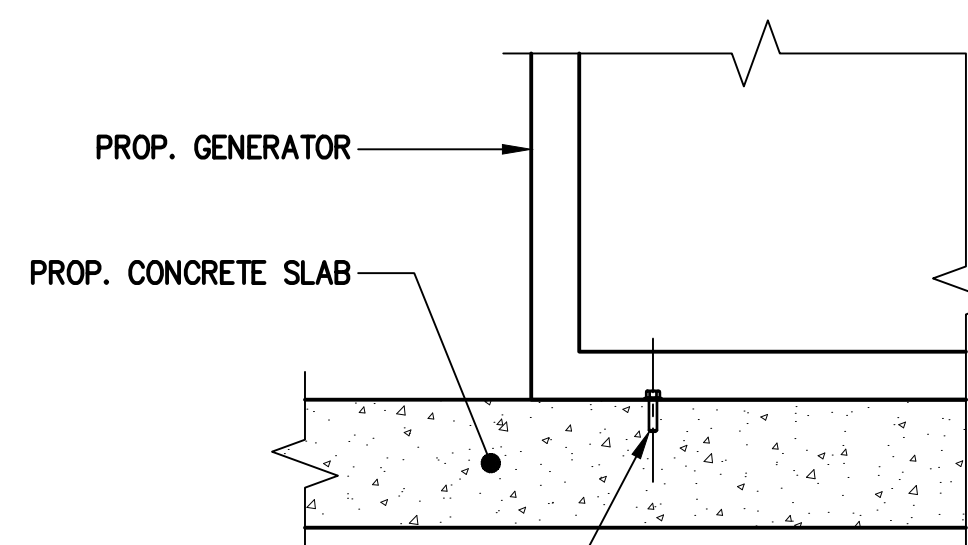
1  
A-2



**GENERATOR PAD DETAIL**

SCALE: NTS

2  
A-2



PROP. 1/2" HILTI KWIK BOLT TZ STAINLESS STEEL ANCHOR BOLT WITH 2" MIN. EMBEDMENT IN CONCRETE 1CC-ESR-1917, LARR 25701, EACH CORNER PER MANUFACTURER'S SPECIFICATIONS (TYP.) (SPECIAL INSPECTION REQUIRED)

**NOTE:**  
CONTRACTOR TO VERIFY 3" MIN. FROM EDGE OF CONCRETE TO NEW MOUNTING BOLT.

**GENERATOR MOUNTING DETAIL**

SCALE: N.T.S.

3  
A-2

**T-MOBILE  
NORTHEAST LLC**

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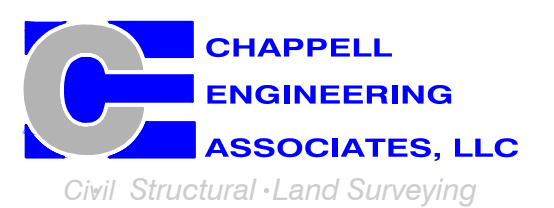
SHEET TITLE  
**GENERATOR DETAILS**

SHEET NUMBER  
**A-2**

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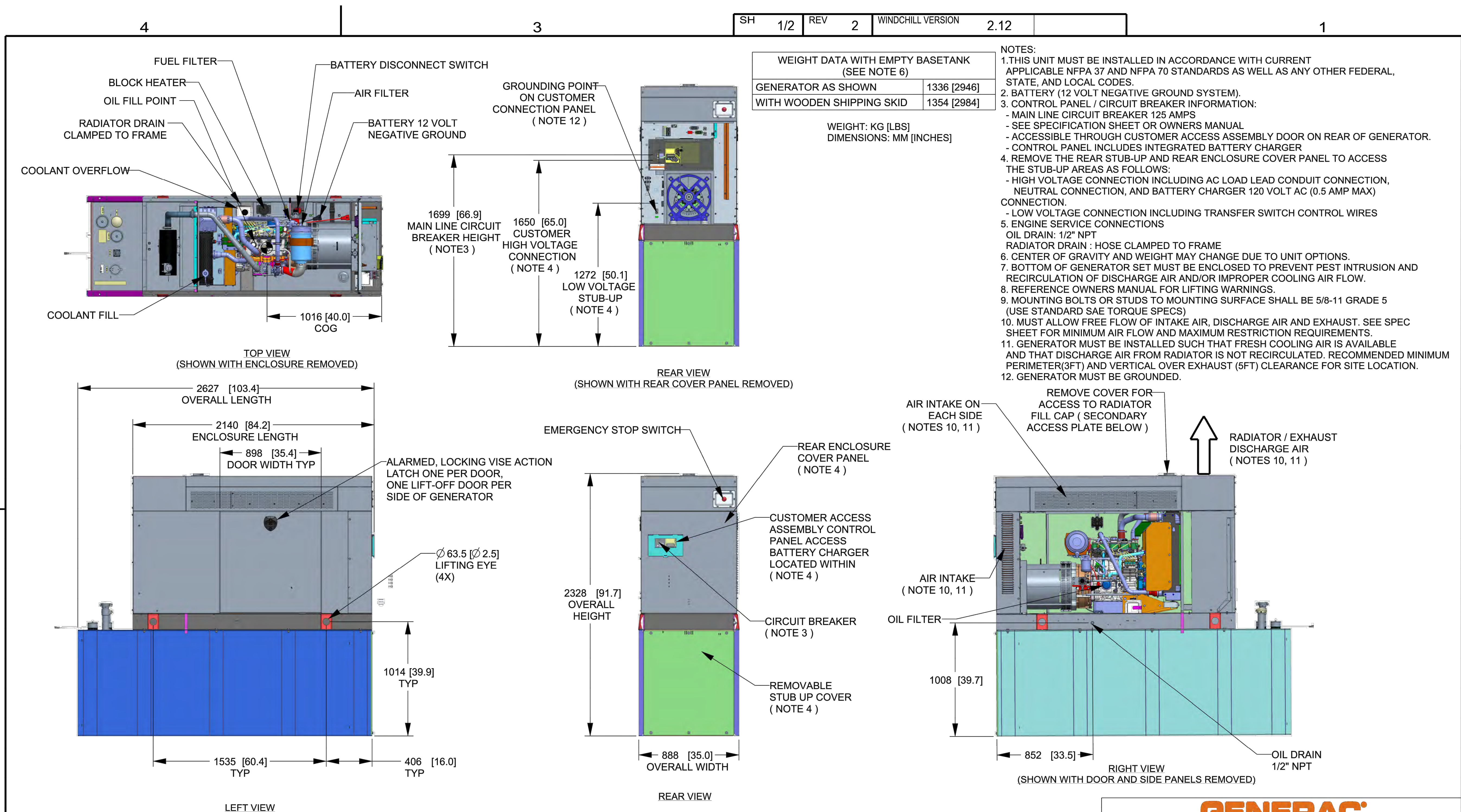
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|------------|----------|-------------------------|-----|
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**CT11408A**

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SHEET TITLE  
**GENERATOR SPECIFICATIONS 1**

SHEET NUMBER  
**A-3**



DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

# INSTALLATION DRAWING

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ELECTRONICALLY APPROVED INSIDE WINDCHILL

**GENERAC**

TITLE  
**INSTALLATION D2.2L  
25KW Y06 PD**

ISSUE DATE: 5/10/18

|      |         |             |     |
|------|---------|-------------|-----|
| SIZE | CAGE NO | DWG NO      | REV |
| B    | N/A     | 10000036728 | 2   |

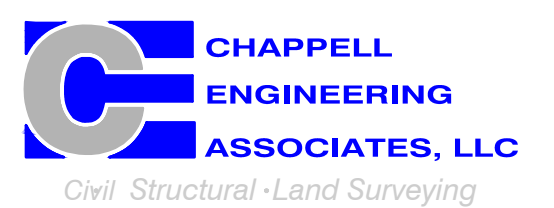
|       |       |           |       |        |
|-------|-------|-----------|-------|--------|
| SCALE | WT-KG | SEE ABOVE | SHEET | 1 of 2 |
| 0.031 |       |           |       |        |

T-MOBILE  
NORTHEAST LLC

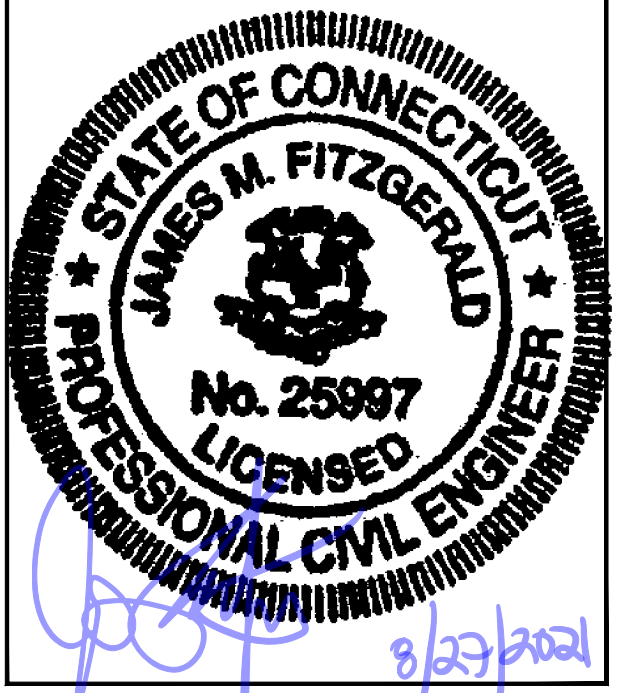
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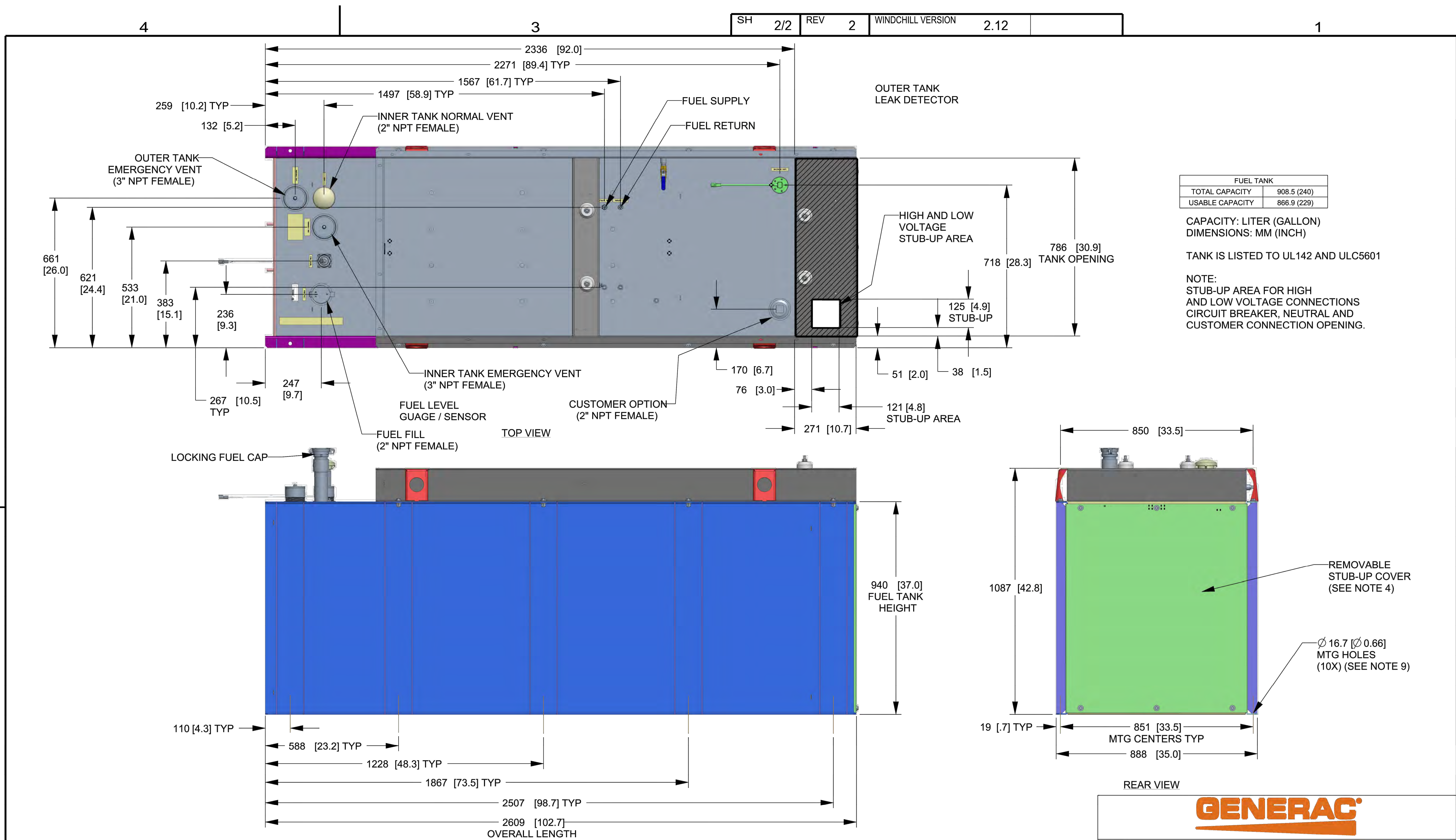
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| 0          | 08/05/21 | ISSUED FOR REVIEW       | CMC |

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**CT11408A**

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220 WINTHROP ROAD  
DEEP RIVER, CT 06417

SHEET TITLE  
**GENERATOR SPECIFICATIONS 2**

SHEET NUMBER  
**A-4**



| FUEL TANK       |             |
|-----------------|-------------|
| TOTAL CAPACITY  | 908.5 (240) |
| USABLE CAPACITY | 866.9 (229) |

CAPACITY: LITER (GALLON)  
DIMENSIONS: MM (INCH)

TANK IS LISTED TO UL142 AND ULC5601

NOTE:  
STUB-UP AREA FOR HIGH AND LOW VOLTAGE CONNECTIONS CIRCUIT BREAKER, NEUTRAL AND CUSTOMER CONNECTION OPENING.

DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

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ELECTRONICALLY APPROVED INSIDE WINDCHILL

**GENERAC**

TITLE  
**INSTALLATION D2.2L  
25KW Y06 PD**

ISSUE DATE: 5/10/18

|                       |                    |                              |                 |
|-----------------------|--------------------|------------------------------|-----------------|
| SIZE<br><b>B</b>      | CAGE NO<br>N/A     | DWG NO<br><b>10000036728</b> | REV<br><b>2</b> |
| SCALE<br><b>0.063</b> | WT-KG<br>SEE ABOVE | SHEET<br><b>2 of 2</b>       |                 |

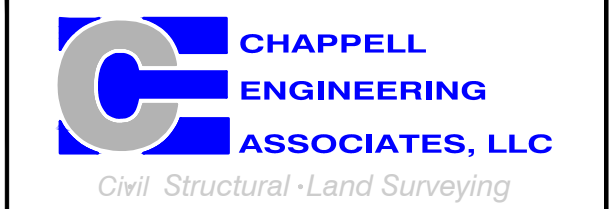
# INSTALLATION DRAWING

# T-MOBILE NORTHEAST LLC

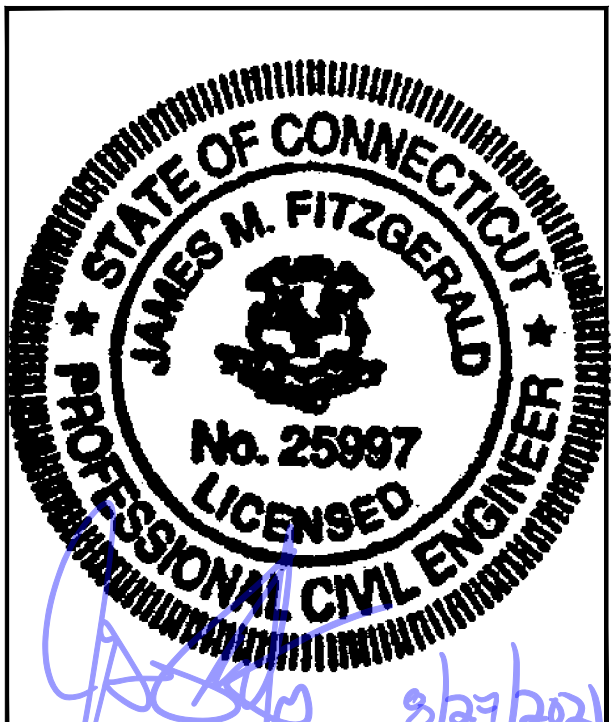
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## SUBMITTALS

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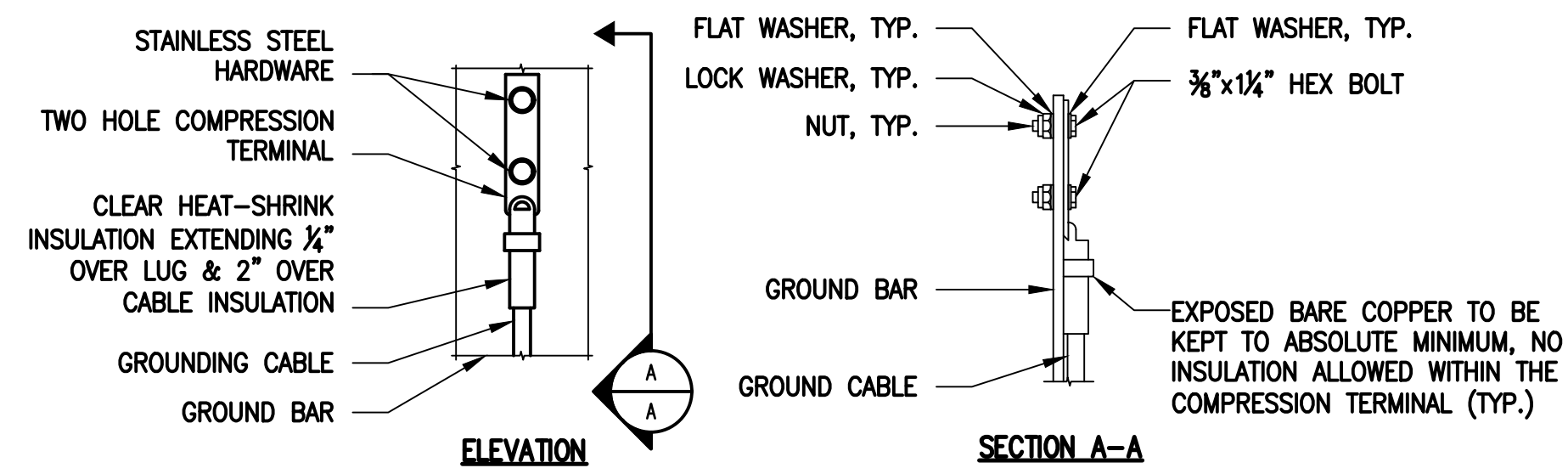
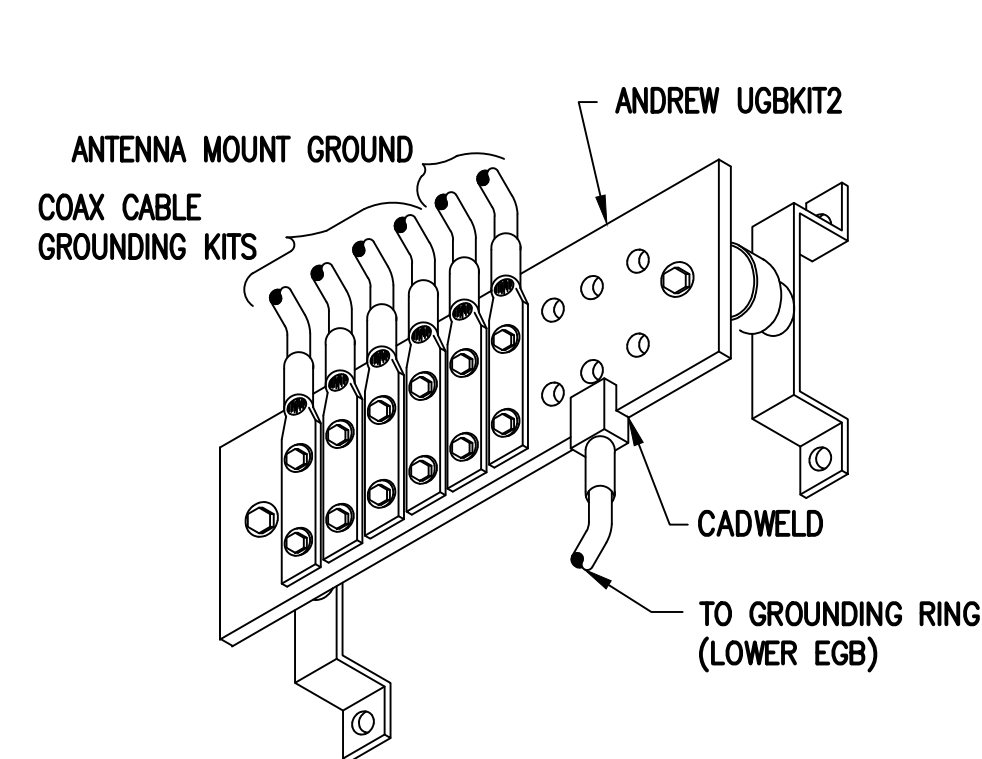
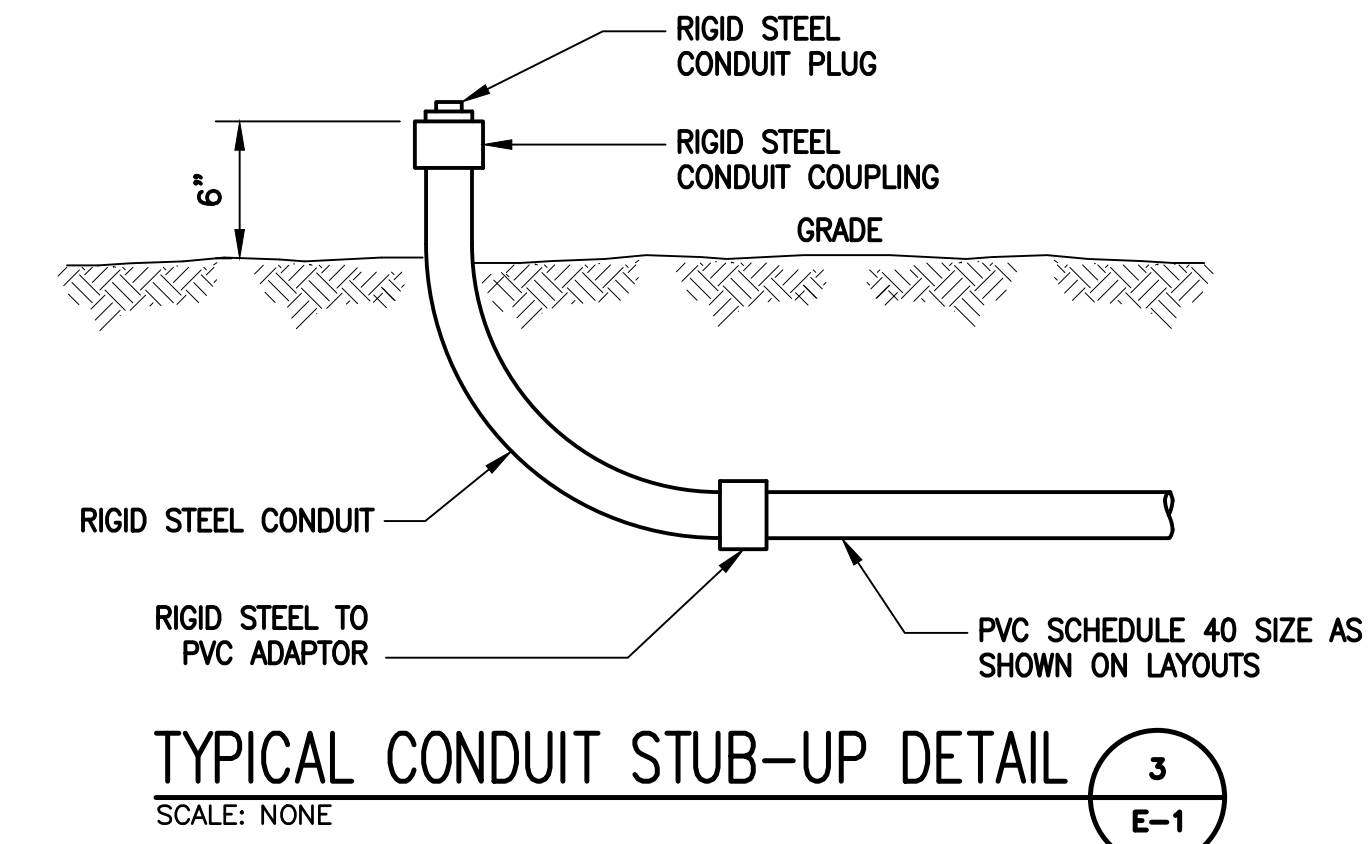
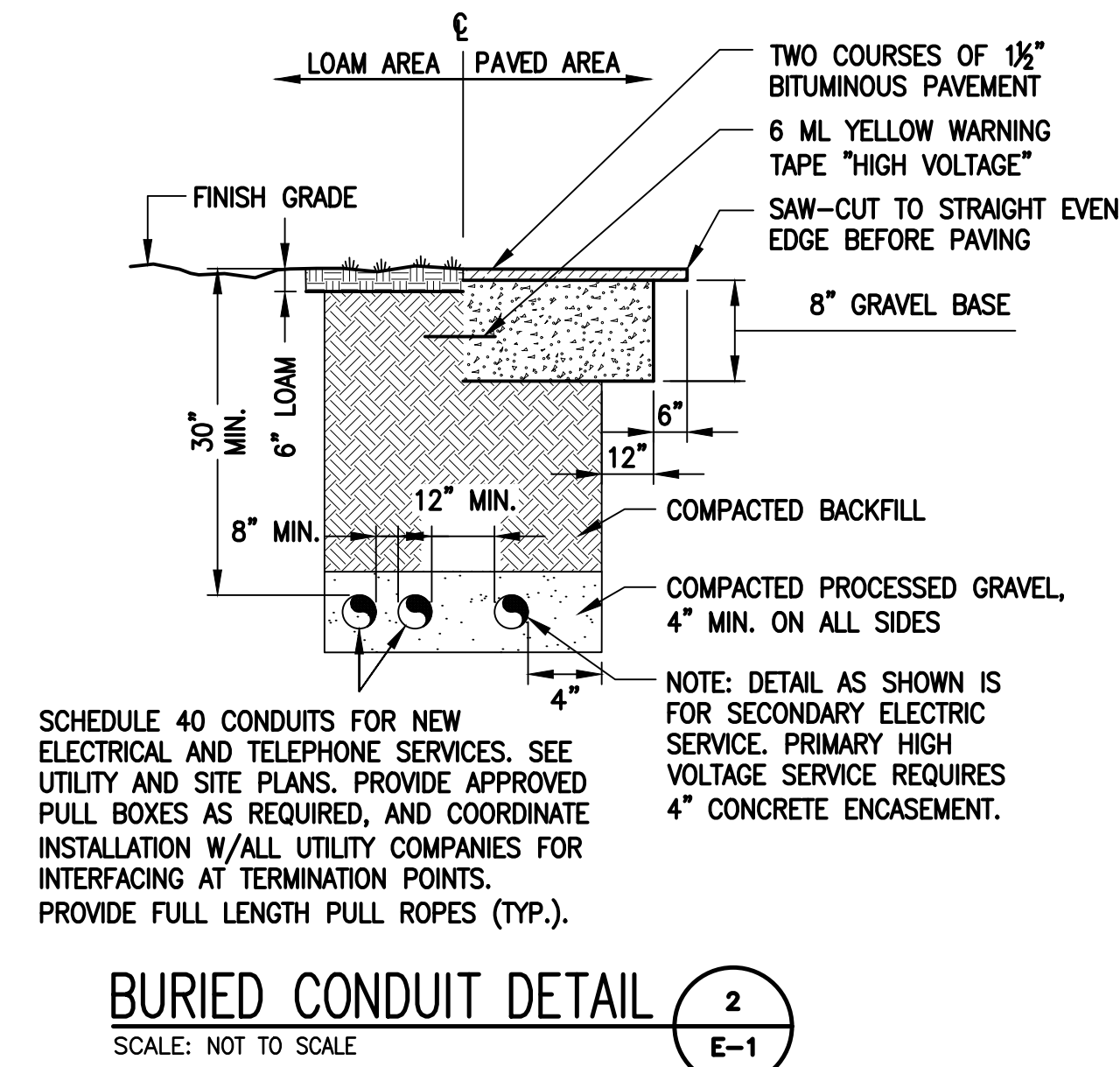
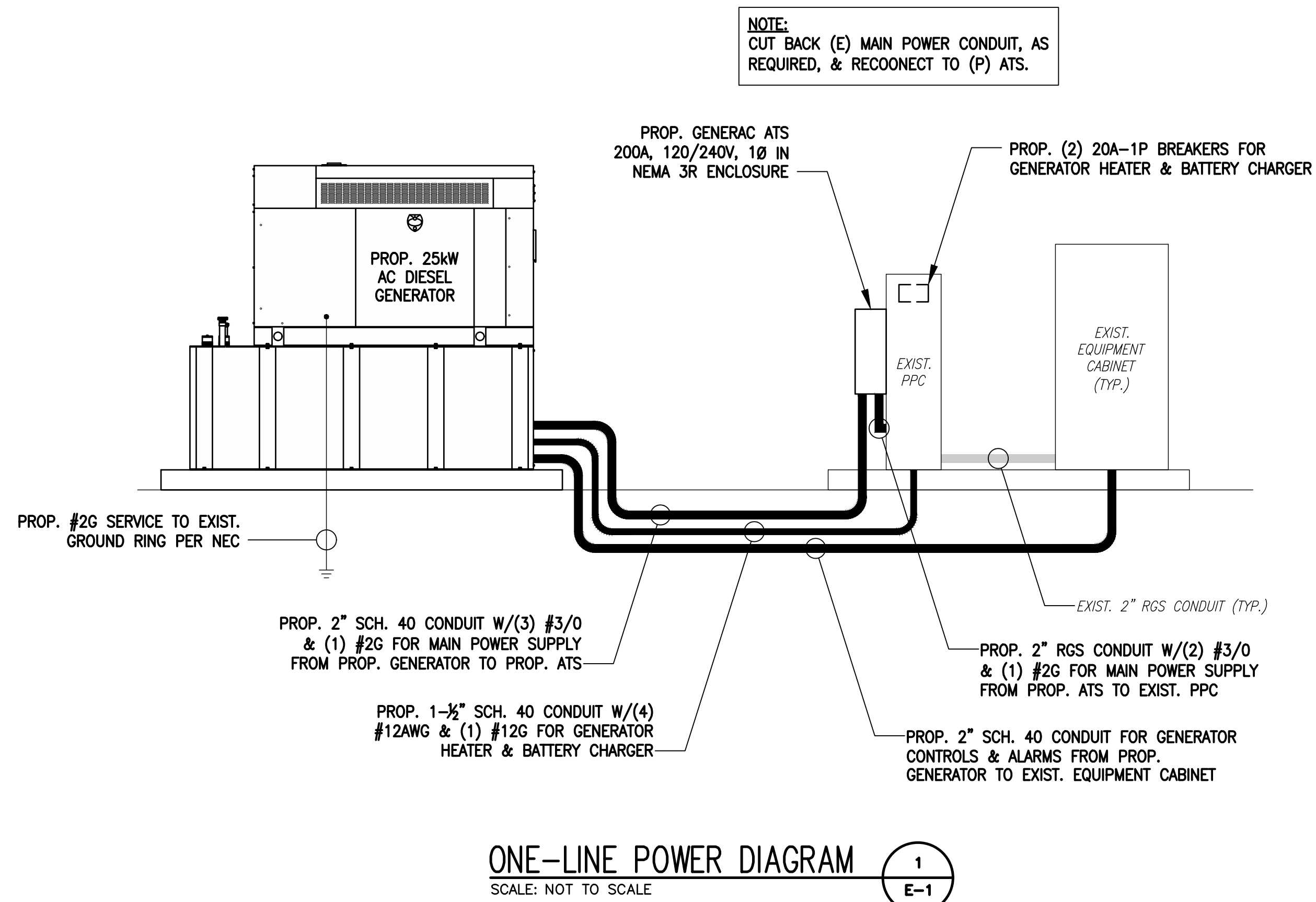
SITE ADDRESS:  
220 WINTHROP ROAD  
DEEP RIVER, CT 06417

SHEET TITLE

**ELECTRIC & GROUNDING  
DETAILS**

SHEET NUMBER

**E-1**



- NOTES:**
- "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
  - OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
  - CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB AND MGB.

## ELECTRICAL AND GROUNDING NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- 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) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
- BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THININSULATION.
- RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
- RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.
- WHERE CONDUIT BETWEEN BTS AND PROJECT OWNER CELL SITE PPC AND BETWEEN BTS AND PROJECT OWNER CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- PPC SUPPLIED BY PROJECT OWNER.
- GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTNING PROTECTION SHALL BE DONE IN ACCORDANCE WITH "T-MOBILE BTS SITE GROUNDING STANDARDS".
- GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
- USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
- ALL GROUND CONNECTIONS TO BE BURIED HYSGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
- CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXIST. TOWER/ MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.
- CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MINIMUM RESISTANCE REQUIRED.
- CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LNA RETURN-LOSS AND DISTANCE- TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE-OUT.

# EXHIBIT 4

Generac RD025 25 KW  
25kw Diesel Specifications

**RD025 | 2.2L | 25 kW**

**INDUSTRIAL DIESEL GENERATOR SET**

EPA Certified Stationary Emergency

**GENERAC®** | **INDUSTRIAL POWER**

### Standby Power Rating

25 kW, 31.25 kVA, 60 Hz



Image used for illustration purposes only



## Codes and Standards

Not all codes and standards apply to all configurations.  
Contact factory for details.



UL2200, UL508, UL489, UL142



CSA 22.2



BS5514 and DIN 6271



SAE J1349



NFPA 37, 70, 99



ISO 3046, 8528, 9001



NEMA ICS1, ICS10, MG1, 250, ICS6, AB1



ANSI/IEEE C62.41

## Powering Ahead

For over 50 years, Generac has led the industry with innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac's gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial application under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.



## Standard Features

### ENGINE SYSTEM

- Cold Weather Kit
- Oil Drain Extension
- Heavy Duty Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil & Coolant
- Critical Exhaust Silencer

### GENERATOR SET

- Sound Attenuated Aluminum Enclosure
- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Wrapped Exhaust Piping
- Standard Factory Testing
- 5 Year Limited Warranty
- Ready to Accept Full Load in <10 Seconds
- E-Stop

### Electrical System

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor
- Smart Battery Charger

### ALTERNATOR SYSTEM

- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Sealed Bearings
- Low Temperature Rise (>120°C)
- Low THD (<5%)

### Cooling System

- Closed Coolant Recovery System
- Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze
- Radiator Drain Extension
- Can Operate at up to 122°F (50°C) Ambient Temperature

### Fuel System

- Fuel Lockoff Solenoid
- Primary Fuel Filter
- Stainless Steel Fuel Lines

### TANKS

- 24 Hour Run Time Tank
- UL142 Listed Tank

## CONTROL SYSTEM



### Evolution™ Controller

- Two-Line Plain Text LCD Display
- Programmable Start Delay Between 10-30 seconds
- 10 second Engine Start Sequence
- 5 second Engine Warm Up
- 1 minute Engine Cool-Down
- Starter Lock-Out
- Smart Battery Charger
- Automatic Voltage Regulation with Over and Under Protection
- Automatic Low Oil Pressure Shutdown
- Overspeed Shutdown
- High Temperature Shutdown
- Overcrank Protection
- Safety Fused
- Failure to Transfer Protection
- Low Battery Protection
- 50 Even Run Log
- Future Set Capable Exerciser
- Incorrect Wiring Protection
- Internal Fault Protection
- Common External Fault Capability
- Governor Failure Protection

## Optional Shipped Loose and Field Install Kits

### ENGINE SYSTEM

- Base Plug Kit

### GENERATOR SET

- Paint Kit
- Scheduled Maintenance Kit

### CONTROL SYSTEM

- Mobile Link™ and Adapter Kit

### TANKS

- Spill Box
- 90% Fuel Alarm
- Tank Risers
- Spill Box Drainback Kit
- Vent Extension Support Kit
- 5 Day Run Time Tank

**APPLICATION AND ENGINEERING DATA**

**ENGINE SPECIFICATIONS**

General

|                                    |                          |
|------------------------------------|--------------------------|
| Make                               | Perkins                  |
| EPA Emission Compliance            | Tier 4 Interim           |
| Cylinder #                         | 4                        |
| Type                               | In-Line                  |
| Displacement - in <sup>3</sup> (L) | 2.22 (135)               |
| Bore - in (mm)                     | 3.3 (84.0)               |
| Stroke - in (mm)                   | 3.9 (100.0)              |
| Compression Ratio                  | 23.3:1                   |
| Intake Air Method                  | Turbocharged/Aftercooled |
| Piston Type                        | Aluminum                 |
| Crankshaft Type                    | Forged Steel             |
| Engine Block Type                  | Cast Iron                |

Engine Governing

|                                     |            |
|-------------------------------------|------------|
| Governor                            | Electronic |
| Frequency Regulation (Steady State) | ±0.25%     |

Lubrication System

|   |                     |
|---|---------------------|
| Oil Pump Type                           | Gear                |
| Oil Filter Type                         | Full Flow Cartridge |
| Crankcase Capacity with Filters- qt (L) | 11.2 (10.6)         |

Cooling System

|                        |                 |
|------------------------|-----------------|
| Cooling System Type    | Closed Recovery |
| Fan Type               | Pusher          |
| Fan Speed- rpm         | 1,980           |
| Fan Diameter - in (mm) | 18.0 (457.2)    |

Fuel System

|                          |                               |
|--------------------------|-------------------------------|
| Fuel Type                | Ultra Low Sulfur Diesel Fuel  |
| Fuel Specification       | ASTM                          |
| Fuel Pump Type           | Mechanical Engine Driven Gear |
| Injector Type            | Mechanical                    |
| Fuel Supply Lin (mm/in)  | 7.94/0.31 (ID)                |
| Fuel Return Line (mm/in) | 4.76/.19 (ID)                 |
| Fuel Filtering (microns) | 25                            |

Engine Electrical System

|                            |                              |
|----------------------------|------------------------------|
| System Voltage             | 12 VDC                       |
| Battery Charger Alternator | Standard                     |
| Battery Size               | See Battery Index 0161970SBY |
| Battery Voltage            | 12 VDC                       |
| Ground Polarity            | Negative                     |

**ALTERNATOR SPECIFICATIONS**

|                                     |          |
|-------------------------------------|----------|
| Standard Model                      | Generac  |
| Poles                               | 4        |
| Field Type                          | Rotating |
| Insulation Class - Rotor            | H        |
| Insulation Class - Stator           | H        |
| Total Harmonic Distortion           | <5%      |
| Telephone Interference Factor (TIF) | <50      |

|                                    |               |
|------------------------------------|---------------|
| Standard Excitation                | Direct        |
| Bearings                           | Single Sealed |
| Coupling                           | Flexible Disc |
| Prototype Short Circuit Test       | Yes           |
| Voltage Regulator Type             | Full Digital  |
| Number of Sensed Phases            | 2             |
| Regulation Accuracy (Steady State) | ±1%           |

# RD025 | 2.2L | 25 kW

## INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

### OPERATING DATA

#### POWER RATINGS

|                                 |       | Standby   |
|---------------------------------|-------|-----------|
| Single-Phase 120/480 VAC @0.1pf | 25 kW | Amps: 104 |
| Three-Phase 120/208 VAC @0.8pf  | 25 kW | Amps: 87  |
| Three-Phase 120/240 VAC @0.8pf  | 25 kW | Amps: 75  |
| Three-Phase 277/480 VAC @0.8pf  | 25 kW | Amps: 37  |

#### MOTOR STARTING CAPABILITIES (sKVA)

##### sKVA vs. Voltage Dip at 30%

|                                  |     |
|----------------------------------|-----|
| 120/240 V, Single-Phase at 0.4pf | 168 |
| 120/208 V, Three-Phase at 0.4pf  | 144 |
| 120/240 V, Three-Phase at 0.4pf  | 125 |
| 120/240 V, Three-Phase at 0.4pf  | 64  |

#### FUEL CONSUMPTION RATES\*

| Percent Load | Diesel gal/hr (L/hr) |
|--------------|----------------------|
| 25%          | 0.97 (3.67)          |
| 50%          | 1.37 (5.19)          |
| 75%          | 1.97 (7.46)          |
| 100%         | 2.77 (10.49)         |

\* Fuel supply installation must accommodate fuel consumption rates at 100% load.

#### COOLING

|   |  | Standby         |
|---|--|-----------------|
| Air Flow (Radiator and Alternator)                    | ft <sup>3</sup> /min (m <sup>3</sup> /min) | 2800 (79)       |
| Coolant System Capacity                               | gal (L)                                    | 2.5 (9.5)       |
| Heat Rejection to Coolant                             | BTU/hr (MJ/hr)                             | 128,638 (135.7) |
| Max. Operating Ambient Temperature                    | °F (°C)                                    | 122 (50)        |
| Maximum Operating Ambient Temperature (Before Derate) | See Bulletin No. 0199270SSD                |                 |
| Maximum Radiator Backpressure                         | in H <sub>2</sub> O (kPa)                  | 0.50 (0.12)     |

#### COMBUSTION AIR REQUIREMENTS

|  | Standby  |
|--|----------|
| Flow at Rated Power ft <sup>3</sup> /min (m <sup>3</sup> /min) | 88 (2.5) |

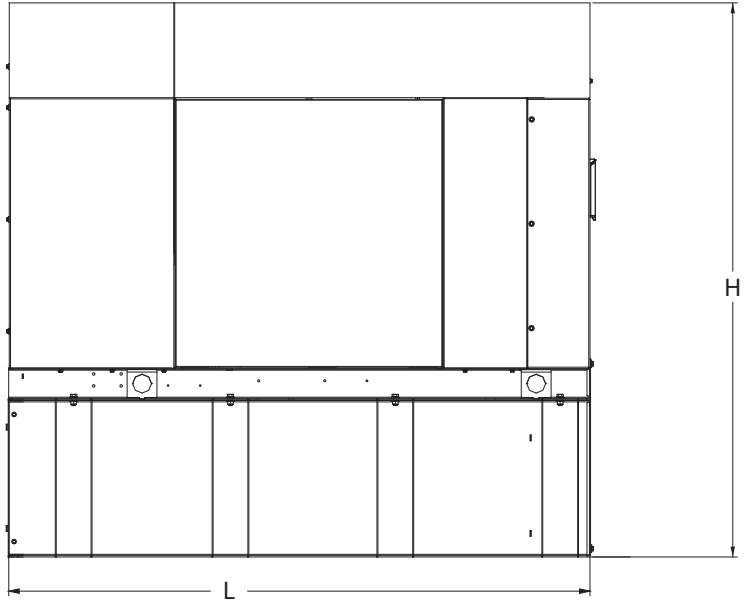
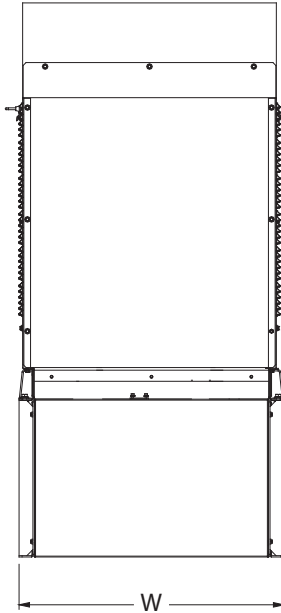
#### ENGINE

#### EXHAUST

| ENGINE             |     |         | EXHAUST                                     |  |             |
|--------------------|-----|---------|---|--|-------------|
|                    |     | Standby |   |  | Standby     |
| Rated Engine Speed | rpm | 1,800   | Exhaust Flow (Rated Output)                 | ft <sup>3</sup> /min (m <sup>3</sup> /min) | 296.6 (8.4) |
|                    |     |         | Exhaust Temp (Rated Output - Post Silencer) | °F (°C)                                    | 930 (499)   |

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards. Standby - See Bulletin 0187500SSB

**DIMENSIONS AND WEIGHTS\***



**Weights and Dimensions**

| Unit Weight - lbs | Unit Weight with Skid - lbs | Dimensions (L x W x H) in |
|-------------------|-----------------------------|---------------------------|
| 2,811             | 2,849                       | 84.2 x 35.0 x 91.7        |

**25kW Fuel Consumption**

|   |     |
|---|-----|
| Fuel Tank Gross Total Capacity  | 240 |
| Fuel Tank Gross Usable Capacity   | 229 |
| Fuel Tank Net Usable Capacity<br>(Run Hours Based on Net Usable Capacity) | 206 |
| Run Hours 100% Load   | 98  |
| Run Hours 75% Load  | 125 |
| Run Hours 50% Load  | 161 |

**with fuel tank  
103.4" 35" x 91.7"**

**Sound Emission Data**

|   |    |
|---|----|
| Rated Load Sound Output at 23ft - dB(A) | 65 |
|---|----|

\* All measurements are approximate and for estimation purposes only. Drawing is for illustration purposes only, not to scale.

| <b>YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER</b> |
|--|
|  |

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

# EXHIBIT 5

Map showing nearest wetlands



BASEMAPS >

MAP LAYERS >

- Wetlands 1 2
- Riparian 1 2
- Riparian Mapping Areas 1 2
- Data Source 1 2
  - Source Type
  - Image Scale
  - Image Year
- Areas of Interest ?
- FWS Managed Lands 1 2
- Historic Wetland Data 1 2

+

Measure

Feet (US)

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Measurement Result

211.8 Feet (US)

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LEGEND

1:2,257  
41.366 | -72.478