



Filed by:

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

November 19, 2021

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

**RE: Notice of Exempt Modification**  
**181A Norman Road, Griswold, CT**  
**Latitude: 41.601097**  
**Longitude: -71.954325**  
**T-Mobile Site #: CT11152C\_Hardening**

Dear Ms. Bachman:

T-Mobile currently maintains nine (9) antennas at the 148-foot level of the existing 160-foot Monopole Tower 181A Norman Road, Griswold, CT. The tower is owned by SBA Towers II, LLC. The property is owned by NORMAN ERNEST R & STUART R. T-Mobile now intends to add one (1) Generac RD025 Diesel generator and 4' x 10' concrete pad, within a 59' 2" x 62' 2 1/2" 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 from existing equipment cabinet to proposed generator
- (1) 2" RGS Conduit for emergency power routed from prop. generator to proposed ATS
- (1) 1-1/2" RGS conduit for generator heater & Battery charger routed from existing PPC to prop. generator
- Generac 200A, 120/240V automatic transfer switch mounted to proposed H-Frame
- (1) 2" RGS conduit for emergency power routed from proposed ATS to existing PPC
- (1) 4' x 10' concrete pad

Remaining:

- Emerson Nextend compact 2416 fiber cabinet
- T-Mobile 5' 6" x 5' 6" concrete pad
- GPS antenna mounted to existing H-Frame
- T-Mobile Ericsson B160 Battery Cabinet
- T-Mobile Ericsson 6160 Equip. Cabinet
- T-Mobile cables along existing Ice Bridge
- Existing T-Mobile Ice Bridge
- T-Mobile 200A PPC, Surge Protector & disconnect mounted to exist. H-Frame
- T-Mobile Emerson Nextend Compact 2416 Fiber Cabinet mounted to existing Post
- T-Mobile Ericsson 6201 ODE Equip. Cabinet
- T-Mobile PTS 8003 190AH Battery Cabinet
- 5' 6" x 10' concrete pad

**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 Griswold, New London County, which is as follows:

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

1. No person shall cause or allow the emission of excessive noise beyond the boundaries of his/her noise zone as measured at any point on a receptor's tract or parcel of land, so as to exceed the levels stated herein:

### Receptor Noise Zone Class

	C	B	A-Day	A- Night
Class C emitter to	70dBA	66dBA	61dBA	51dBA
Class B emitter to	62dBA	62dBA	55dBA	45dBA
Class A emitter to	62dBA	55dBA	55dBA	45dBA

The proposed modification will remain within the existing 59' 2" x 62' 2 1/2" fenced compound. The new generator and tank will be surrounded by the existing security fence with a 12' 3" 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 Griswold's First Selectman, Dana Bennett, Building & Zoning Enforcement Officer, Jack Cipriano, as well as to the property Owner, NORMAN ERNEST R & STUART R. (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  
[GSherpherd@sbasite.com](mailto:GSherpherd@sbasite.com)  
Attachments

cc: Dana Bennett, First Selectman / with attachments  
Griswold Town Hall, 28 Main St., Jewett City, CT 06351  
Jack Cipriano, Building & Zoning Enforcement Officer / with attachments  
Griswold Town Hall, 28 Main St., Jewett City, CT 06351  
NORMAN ERNEST R & STUART R / with attachments  
257 Norman Rd., Griswold, CT 06351 (SBA address on file)

**Exhibit List**

Exhibit 1	Check Copy	x
Exhibit 2	FedEx Labels	x
Exhibit 3	Property Card	x
Exhibit 4	Property Map	x
Exhibit 5	Zoning Documents	Town of Griswold P&Z (6/8/98)
Exhibit 6	Construction Drawings	Chappell 11/1/21
Exhibit 7	Generator Specifications	x
Exhibit 8	Wetlands Map	x

## EXHIBIT 1

Copy of Check for filing fee.

## EXHIBIT 2

### FedEx Labels

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

SHIP DATE: 19NOV21  
 ACTWT: 2.00 LB  
 CAD: 105843304/NET4400  
 BILL SENDER

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

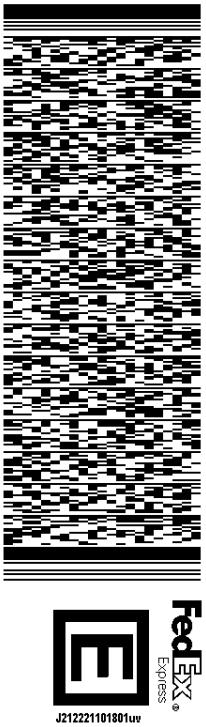
**NEW BRITAIN CT 06051**  
 (508) 251-0720 X 3807

REF: 1056 92009 60099

PO

DEPT

56DJ29A7E/FE4A



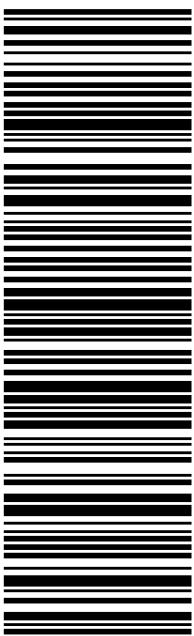
**MON - 22 NOV 11:30A**  
**PRIORITY OVERNIGHT**

TRK#  
 0201

**7752 6543 8830**

**06051**  
 CT-US  
 BDL

**SE BDLA**



**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.
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**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](http://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 Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

[TRACK ANOTHER SHIPMENT](#)

775265438830

[ADD NICKNAME](#)[ON TIME](#)

Scheduled delivery:  
Monday, 11/22/2021 before 11:30 am

**PICKED UP**

WESTBOROUGH, MA

[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](#)[Shipment Facts](#)

### Travel History

TIME ZONE  
Local Scan Time



Friday, November 19, 2021

4:45 PM	WESTBOROUGH, MA	Picked up Tendered at FedEx Office
1:08 PM		Shipment information sent to FedEx

### Shipment Facts

TRACKING NUMBER	SERVICE	WEIGHT
775265438830	FedEx Priority Overnight	2 lbs / 0.91 kgs
TOTAL PIECES	TOTAL SHIPMENT WEIGHT	TERMS
1	2 lbs / 0.91 kgs	Shipper

ORIGIN ID:BBFA (508) 614-0389  
 RICK WOODS ACTWTG: 1.00 LB  
 SBA COMMUNICATIONS CORPORATION CAD: 105843304/NET4400  
 SUITE 125  
 WESTBOROUGH, MA 01581  
 UNITED STATES US

SHIP DATE: 19NOV21  
 INV: ACTWTG: 1.00 LB  
 PO: CAD: 105843304/NET4400  
 BILL SENDER

TO **DANA BENNETT**

**GRISWOLD TOWN HALL**

**FIRST SELECTMAN**

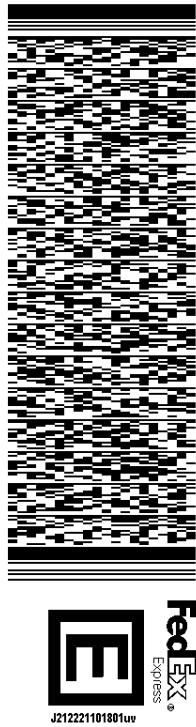
**28 MAIN ST**

**GRISWOLD CT 06351**

(508) 251-0720 X 3807

REF: 1056 92009 60099  
 INV: DEPT:

56DJ29A7E/FE4A



**MON - 22 NOV 1:00P**

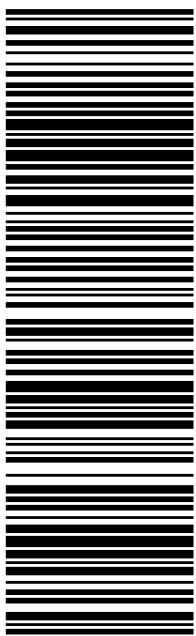
**PRIORITY OVERNIGHT**

**TRK# 7752 6547 2077**

**0201**

**XE GONA**

**06351  
CT-US  
BDL**



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775265472077

[ADD NICKNAME](#)[ON TIME](#)

Scheduled delivery:  
Monday, 11/22/2021 before 1:00 pm

**PICKED UP**

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

**TO**  
Dana Bennett  
Griswold Town Hall  
First Selectman  
28 Main St  
JEWETT CITY, CT US 06351  
508-251-0720

[MANAGE DELIVERY](#)

## Travel History

TIME ZONE  
Local Scan Time



Friday, November 19, 2021

4:45 PM	WESTBOROUGH, MA	Picked up Tendered at FedEx Office
1:10 PM		Shipment information sent to FedEx

## Shipment Facts

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775265472077

**SERVICE**

FedEx Priority Overnight

**WEIGHT**

0.5 lbs / 0.23 kgs

**TOTAL PIECES**

1

**TOTAL SHIPMENT WEIGHT**

0.5 lbs / 0.23 kgs

**TERMS**

Shipper

ORIGIN ID:BBFA (508) 614-0389  
 RICK WOODS ACTWGT: 1.00 LB  
 SBA COMMUNICATIONS CORPORATION CAD: 105843304/NET4400  
 SUITE 125  
 WESTBOROUGH, MA 01581  
 UNITED STATES US

SHIP DATE: 19NOV21  
 MON  
 ACTWGT: 1.00 LB  
 CAD: 105843304/NET4400  
 BILL SENDER

TO JACK CIPRIANO

GRISWOLD TOWN HALL

BUILDING & ZONE ENF. OFFICER

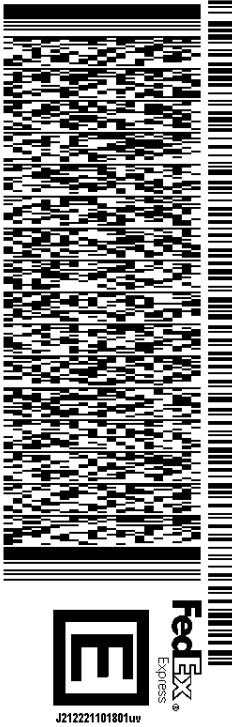
28 MAIN ST

GRISWOLD CT 06351

(508) 251-0720 X 3807

REF: 1056 92009 60099  
 INW  
 PO

56DJ29A7E/FE4A



MON - 22 NOV 1:00P

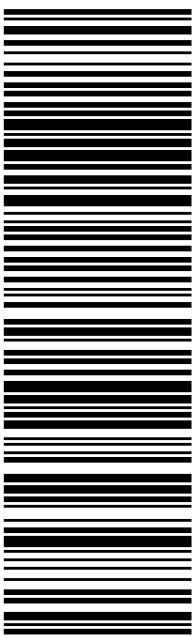
PRIORITY OVERNIGHT

TRK#  
 0201

7752 6548 6886

XE GONA

06351  
 CT-US  
 BDL



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775265486886

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Scheduled delivery:  
Monday, 11/22/2021 before 1:00 pm

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

**TO**  
Jack Cipriano  
Griswold Town Hall  
Building & Zone Enf. Officer  
28 Main St  
JEWETT CITY, CT US 06351  
508-251-0720

[MANAGE DELIVERY](#)

## Travel History

[Travel History](#)[Shipment Facts](#)

TIME ZONE  
Local Scan Time



Friday, November 19, 2021

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1:11 PM		Shipment information sent to FedEx

## Shipment Facts

**TRACKING NUMBER**

775265486886

**SERVICE**

FedEx Priority Overnight

**WEIGHT**

0.5 lbs / 0.23 kgs

**TOTAL PIECES**

1

**TOTAL SHIPMENT WEIGHT**

0.5 lbs / 0.23 kgs

**TERMS**

Shipper

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

SHIP DATE: 19NOV21  
 ACTWT: 1.00 LB  
 CAD: 105843304/NET4400

BILL SENDER

TO **STUART & ERNEST R. NORMAN**

**257 NORMAN RD.**

**GRISWOLD CT 06351**

(508) 251-0720 X 3807

REF: 1056 92009 60099  
 INV  
 PO  
 DEPT

56DJ29A7E/FE4A

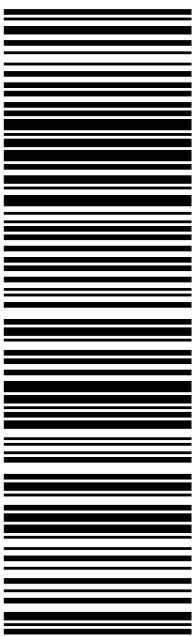


**MON - 22 NOV 1:00P**  
**PRIORITY OVERNIGHT**

TRK# 7752 6551 5305

0201

**XE GONA**  
 06351  
 CT-US  
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[TRACK ANOTHER SHIPMENT](#)

775265515305

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Scheduled delivery:  
Monday, 11/22/2021 before 1:00 pm

**PICKED UP**

WESTBOROUGH, MA

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

**TO**  
Stuart & Ernest R. Norman  
257 Norman Rd.  
JEWETT CITY, CT US 06351  
508-251-0720

[MANAGE DELIVERY](#)[Travel History](#)[Shipment Facts](#)

### Travel History

TIME ZONE  
Local Scan Time



Friday, November 19, 2021

4:45 PM	WESTBOROUGH, MA	Picked up Tendered at FedEx Office
1:12 PM		Shipment information sent to FedEx

### Shipment Facts

TRACKING NUMBER	SERVICE	WEIGHT
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TOTAL PIECES	TOTAL SHIPMENT WEIGHT	TERMS
1	0.5 lbs / 0.23 kgs	Shipper

## EXHIBIT 3

# Property Card

 **Town of Griswold, CT**
**Summary**

ParcelId	10810
Account Number	04129801
Location Address	181 A NORMAN RD
Map-Block-Lot	38/69/6A
	Dev Lot. 7091
Use Class/Description	4310 TEL REL TW
Assessing Neighborhood	0050A
Census Tract	7091
Acreage	0.08
Utilities	Well,Septic

**Owner**

NORMAN ERNEST R & STUART R &  
257 NORMAN RD  
GRISWOLD, CT 06351

**Current Appraised Value**

	2017	2015
+ Building Value	\$0	\$0
+ XF Value	\$0	\$0
+ OB Value	\$126,900	\$121,500
+ Land Value	\$150,000	\$150,000
+ Special Land Value		
+ Total Appraised Value	\$276,900	\$271,500
+ Net Appraised Value	\$276,900	\$271,500
+ Current Assessment	\$193,830	\$190,050

**Assessment History**

	2017	2015
+ Building Value	\$0	\$0
+ OB/Misc	\$88,830	\$85,050
+ Land	\$105,000	\$105,000
+ Total Assessment	\$193,830	\$190,050

**Land**

Use	Class	Zoning	Area	Value
4310 TEL REL TW	I		3600 SF	\$150,000

**Out Buildings\Extra Features**

Description	Sub Description	Area	Year Built	Value
CELL TOWER		160HEIGHT	1999	\$86,400
FENCE-6' CHAIN		240L.F.	1999	\$2,700
CELL EQUIP SHELTER		72S.F.	1999	\$5,400
CELL EQUIP SHELTER		432S.F.	1999	\$32,400

**Sales History**

Sales Date	Type of Document	Grantee	Vacant/Improved	Book/Page	Amount
03-27-1992		NORMAN ERNEST R & STUART R &	Improved	144/ 500	\$0

**Permit Information**

Permit ID	Issue Date	Type	Description	Amount	Inspection Date	% Complete	Date Complete	Comments
10-22	01-26-2021	MN	MAINTENANCE	\$40,500		0		CONCRETE BALLAST PADS TOWER
22-21	07-21-2020	EL	ELECTRIC	\$15,000		0		INSTALL NEW DIESEL GENERATOR
117-19	10-29-2018	MN	MAINTENANCE	\$10,287		0		BOLT ON REINFORCING ANGLE FROM 1' TO 10' ON EXISTING CELL TOWER
57-19	09-06-2018	CM	COMMERCIAL	\$25,000		0		TELECOM UPGRADE: REMOVE AND REPLACE (3) ANTENNAS AND INSTALL (6) REMOTE RADIO UNITS

224-17	04-12-2017	CM	COMMERCIAL	\$20,000	0	SWAP 3 EXISTING CELL ANTENNAS WITH 3 NEWER TECHNOLOGY CELL ANTENNAS AND ASSOCIATED EQUIPMENT AT EXISTING CELL SITE		
125-13	01-23-2013	AD	3ANT/6REMOTE RADIO	\$25,000	0			
47-99	08-27-1999	CM	8X11 OB	\$500	100	10-01-1999	8 X 11 QUINN VALLEY OB	
8-99	07-12-1999	CM	24X36 OB	\$45,000	9/1/1999 12:00:00 AM	100	09-10-1999	8-99 COMP CO
242-98	04-15-1999	CM	TOWER/FENCE	\$170,100	7/12/1999 12:00:00 AM	100	07-12-1999	5-99 CO

### Sketch



No data available for the following modules: Building Data, Building Data, Commercial Building, Photos.

The Town of Griswold Assessor makes every effort to produce the most accurate information possible. No warranties, expressed or implied are provided for the data herein, its use or interpretation. The assessment information is from the last certified tax roll. All other data is subject to change.

[User Privacy Policy](#)  
[GDPR Privacy Notice](#)

Last Data Upload: 11/18/2021, 8:26:15 PM

Developed by  
 Schneider  
GEOSPATIAL

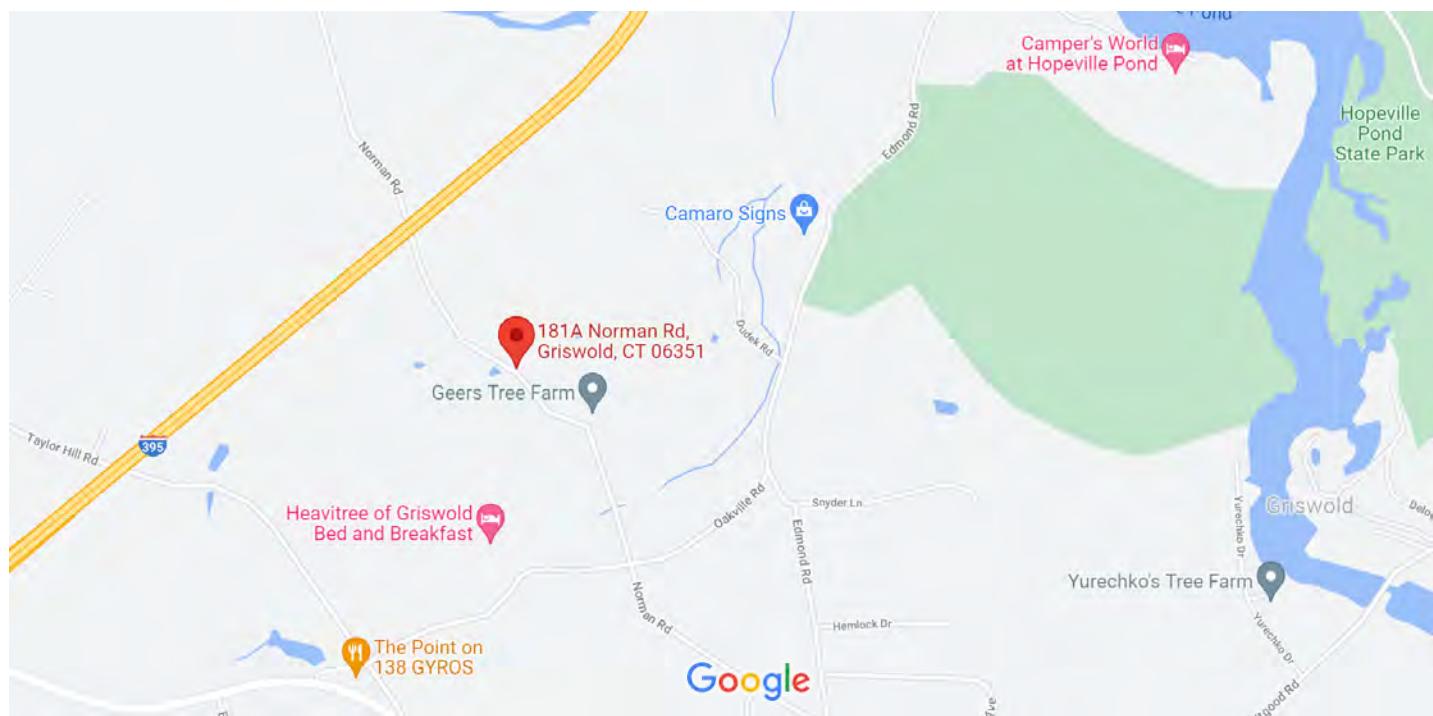
Version 2.3.162

# EXHIBIT 4

# Property Map

Google Maps

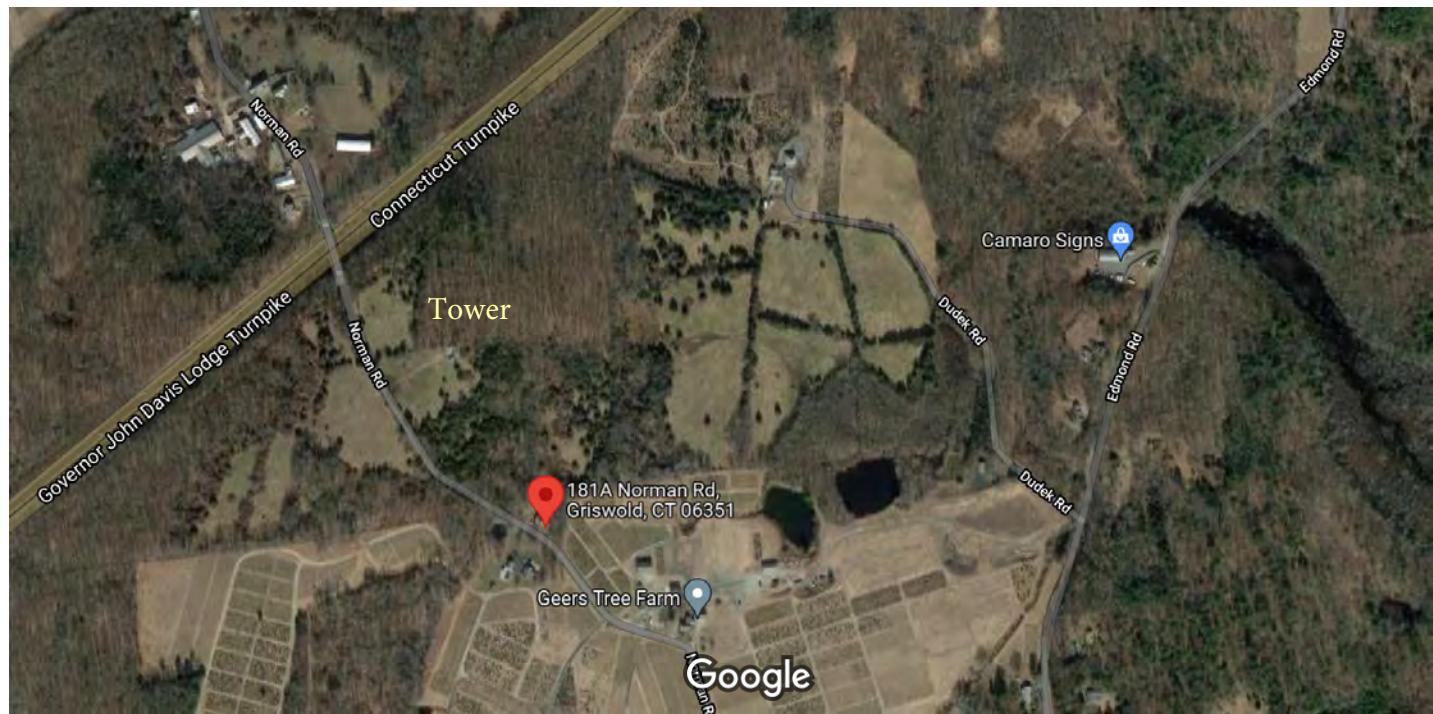
181A Norman Rd



Map data ©2021 1000 ft

Google Maps

181A Norman Rd



Imagery ©2021 CNES / Airbus, Maxar Technologies, USDA Farm Service Agency, Map data ©2021

500 ft

## EXHIBIT 5

# Zoning Documents

SITE NAME: Griswold Norman

SITE ID: CT10012-A

Transaction: Mariner Tower

Jill

**ZONING/PERMITTING COMPLETION FORM**

Address: 181 Norman Road, Griswold, CT

Landlord/Parcel ID:

Jurisdiction: Connecticut Siting Council Zoning District:

Zoning Approval Type: Zoning Permit – Planning/Zoning Commission Case #: ZP 12-98

Approval Date: 6/8/98 Approved Height: 160 Tower Build Date:

Conditions of Approval:	Yes	No	N/A
Removal Bond	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Site Plan Submittal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fall Zone	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Periodic Inspections	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Periodic Reporting	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Approval Renewal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Additional Conditions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Cell towers currently fall under complete jurisdiction of Connecticut Siting Council (CSC).

No CSC Review on this tower/no Certificate of Environmental Compatibility &amp; Public Need issued – tower build pre-dates CSC &amp; obtained town zoning approvals. Any modifications/collocations must go through CSC Review.

**JURISDICTION POC/DEPT.**

Planning/Zoning: Carriann Mulcahy (CSC)

Phone: 860-827-2940 Fax:

Bldg./Code Enforcement:

Phone: Fax:

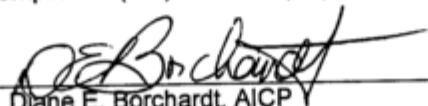
Submitted by: *Diane E. Borchardt* Date: 4/19/07

Zoning Compliance

**TO BE COMPLETED BY CORPORATE**

	Yes	No	N/A	PC
Zoning Approval Attached (required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Ordinance Attached (required)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Building Permit Attached (required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Date Recd 4/15/99
Certificate of Occupancy or Compliance (CO) attached (required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7/12/99

Zoning Manager Approval:


  
Diane E. Borchardt, AICP

Date 4/19/2007



*Town of Griswold*  
 TOWN HALL, 32 SCHOOL STREET  
 JEWETT CITY, CONNECTICUT 06351



SELECTMEN 376-7061  
 ASSESSOR 376-7071  
 TAX COLLECTOR 376-7068  
 SOCIAL SERVICES 376-7067  
 PUBLIC HEALTH NURSES 376-7077

TOWN CLERK 376-7063  
 BUILDING INSPECTOR 376-7065  
 PLANNING & ZONING 376-7073  
 BOOKKEEPING 376-7074  
 SANITARIAN 376-7065

**PLANNING & ZONING COMMISSION**

June 10, 1998

Wayne Kemp  
 1050 Buckley Highway  
 Union, CT 06076

Re: Wayne Kemp ZP 12-98  
 257 Norman Road, Griswold, CT

Dear Mr. Kemp:

The Griswold Planning & Zoning Commission, at it's Regular Meeting held on June 8 1998, reviewed the above-referenced Zoning Permit application to construct a 160-foot communication tower at 257 Norman Road on property owned by Ernest R. Norman, Stuart R. Norman and Priscilla Forschler.

Following a discussion on the matter, the commission voted to approve the application with the condition that all applicable FCC and FAA regulations governing the tower are followed. Please forward written documentation to Mario J. Tristany, Jr., Town Planner, that shows compliance with the afore-mentioned regulating agencies.

In addition, please be advised that it will be necessary for you to file one set of fixed line mylars, one set of regular mylars, and four sets of paper prints with original signatures and seals of your surveyor for endorsement by the undersigned. Please make sure that said mylars contain a signature line and date line.

Should you have any questions regarding the above, please contact Mario at  
(860)376-7084.

Very truly yours,

*F. Clyde Seaman*

F. Clyde Seaman  
Chairman

cc: Peter Zvingilas, Z.E.O.  
Cynthia Kata, Assessor  
Ernest Norman  
Stuart Norman

CERTIFIED: Z 307 862 685

## TOWN OF GRISWOLD AND BOROUGH BUILDING DEPARTMENT

APPLICATION for BUILDING PERMIT & CERTIFICATE  
of ZONING COMPLIANCE

(Please print all information)

CALL BEFORE  
YOU DIG  
1-800-922-4455  
C.B.D.Y. #

This Application for Permit is made pursuant to Section 113.0 of the Basic Building Code of the State of Connecticut and is to be used for all construction requiring a Permit under said Code. THIS IS NOT A BUILDING PERMIT. Any Permit granted pursuant to this application will be valid only for the type of work checked under No. 4 below. Detailed plans and specifications must be submitted for all construction as determined by this office.

 FLOOD PLAIN     BOROUGH     TOWN 1. LOCATION: Street Norman Road

Street Mp Street No. \_\_\_\_\_

Assessor's Map No. 38Assessor's Lot No. 6

If subdivision:

Name \_\_\_\_\_

Lot No. \_\_\_\_\_ Section No. \_\_\_\_\_

ERNEST R. NORMAN2. OWNER: Name STUART R. NORMAN Priscilla FarschlerMailing Address 257 Norman RoadJewett City, CT 06351esee Phone New England Site Management  
1515 Mo. Stone St. West Suffield CT 06073  
860-644-3060

3. NATURE OF WORK: (Check)

- New Construction     Alteration  
 Wood Frame     Repair  
 Masonry     Demolition  
 Wood/Masonry     Moving of structure  
 Addition     Other

4. TYPE OF WORK: (Permit will be valid only for  
those boxes checked.)

- Structural  
 Electrical  
 Heating &  
Ventilation  
 Plumbing  
 Swimming Pool  
 Sewage Disposal  
 Oil Burner  
 Other

125326  
Erection of 160'  
Radio Tower - Foundation  
Road and Fence  
and Communications  
Shelter

Indicate State License  
Number of Contractor  
where applicable

5. CONTRACTOR (in responsible charge):

Name Roadrunner Bush SvcAddress 1050 Buckley Highway  
Union CT 06076Phone 860-644-3060 Field phone \_\_\_\_\_

6. ARCHITECT / ENGINEER: (if any)

Name KWP Associates Bruce WoodisAddress 250 Killingly Rd,  
Parkfield Center CTConn. Registration No. 13646Phone 928-1921

7. USE OF PROPOSED STRUCTURE:

- Single family residence  
 Multi-family residence  
 Commercial  
 Industrial  
 Other

8. WATER AND SEWAGE DATA: NA

- a. If residence, no. of bedrooms \_\_\_\_\_  
b. If commercial/industrial, average daily sewage flow \_\_\_\_\_ gallons.

c. Water supply: \_\_\_\_\_ Public  
\_\_\_\_\_ Private well - (a report of  
bacteriological test of the well water according to  
directions furnished is required and approved by the  
Assistant Health Officer.)

d. Subsurface soil data at leaching site:

\_\_\_\_\_ ft. to bedrock and/or

\_\_\_\_\_ ft to ground water on \_\_\_\_\_ date

by \_\_\_\_\_ (Engineer)

\_\_\_\_\_ min./inch seepage on \_\_\_\_\_ date

by \_\_\_\_\_ (Engineer)

\*Determined according to the Conn.  
Public Health Code specifications.

9. ZONING DATA:

- a. Lot dimensions - show on sketch on page 2.  
b. Lot area 22000 sq. ft.  
c. Structure dimensions:  
Overall Width 20 ft.  
Overall Depth 160 ft.  
Overall Height 160 ft.  
d. Number of stories \_\_\_\_\_  
e. Floor area \_\_\_\_\_ sq. ft.  
f. Other:

# PLOT PLAN

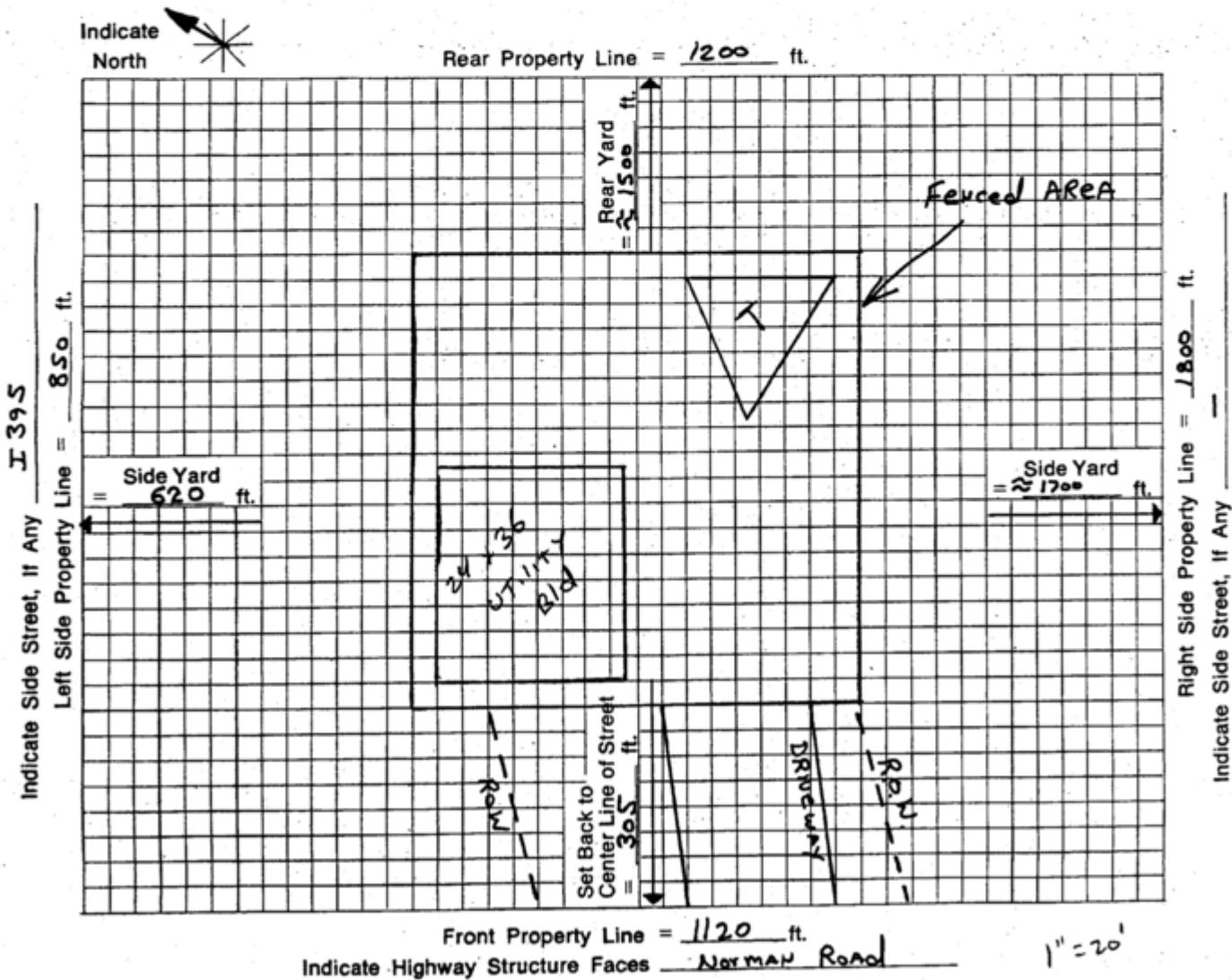
Application No. \_\_\_\_\_

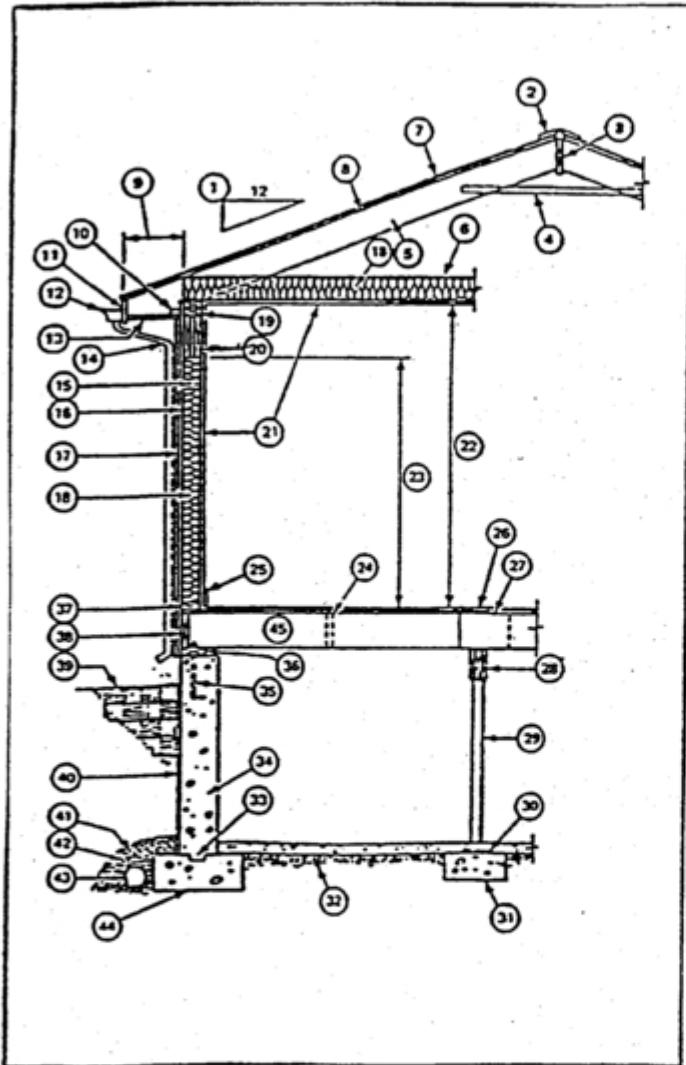
Permit No. \_\_\_\_\_

(For office use)

It is suggested that the squares be used as a scale so that all information is in the same proportion. The following should be shown:

1. Approximate outline of structure.
2. Closest distance from structure to property line; if the lot is irregularly shaped, indicate approximate shape.
3. Abutting streets.
4. Proposed location of well or water line.
5. Driveway.
6. Curtain drains, if any.
7. Septic tank.
8. Layout of leaching system.
9. Any outstanding topographical features, such as ledge outcroppings, ponds, swamps, streams, gullies, steep slopes, large trees which will remain, etc.





UTILITY Building 15  
24 x 36 PreFabricated  
Steel Structure

PARTS AND SECTION		SIZE
1	Ridge Triangle	
2	Ridge Cap/Vent	
3	Ridge Board	
4	Color Tie	
5	Rafter	
6	Ceiling Joist	
7	Roofing	
8	Sheathing	
9	Overhang or Tail	
10		
11	Fascia	
12	Gutter	
13	Soffit/Vent	
14	Leader or Downspout	
15	Stud	
16	Sheathing	
17	Siding	
18	Insulation - Walls	
19	Rate	
20	Header	
21	Gypsum Board or Plaster	
22	Finish Height	
23	Window & Door Height	
24	Bracing	
25		
26	Finish Floor	
27	Subfloor	
28	Coupling Beam or Girder	
29	Column	
PARTS AND SECTION		SIZE
30	Concrete Floor	
31	Column Footing	
32	Gravel/Depth	
33	Footing Key	
34	Foundation Wall	
35	Anchor Bolt	
36	Sill	
37	Shoe or Sole	
38	Header	
39	Grade	
40	Waterproofing	
41	Building Paper	
42	Crushed Stone	
43	Footing Drain	
44	Footing	
45	Floor Joist	
	Depth of Footing	
	Size of Bedroom Windows	
	Type of Glass	
	Type of Heat	
Plumbing	Yes	No
Sever/Public	Yes	No
Sewer Tank	Yes	No
Electrical		
Ground Fault Interrupter		
Smoke detector		

F,T,B

## TOWN OF GRISWOLD AND BOROUGH BUILDING DEPARTMENT

Application No. \_\_\_\_\_

Permit No. \_\_\_\_\_

(For office use)

I hereby certify that I am the owner or the authorized agent of the owner of the property herein described. I will conform to the applicable requirements of the Basic Building Code and Public Health code of the State of Connecticut and the Ordinances of the Town of Griswold and to any requirements not specifically covered by these Codes and Ordinances but deemed by the Building Inspector and/or Town Engineer to be essential for structural, fire, or sanitary protection. It is understood that neither the Town of Griswold nor any authorized agent assumes any responsibility for construction or maintenance of any facility built under the Permit for which this application is made.

Signature Wayne P. P. Agent \_\_\_\_\_  
 If agent, state title \_\_\_\_\_ Owner \_\_\_\_\_  
 Date signed 3-25-99  
 Estimated Cost \$0,000

(Do not write below this line)

PLANNING & ZONING COMMISSION		DIRECTOR OF HEALTH	ENGINEERING DEPARTMENT
Street Number _____		Dis/Approved on _____ By _____ Director of Health	Dis/Approved on _____ By _____ COMMENTS:
Zone _____		Required Septic Tank Size _____ gal.	
Permissible Use? _____		Required Leaching Area _____ sq. ft.	
Dis/Approved on _____ By _____ COMMENTS:		Final sewage disposal system - constructed as shown in red. Well water sample certificate and satisfactory sample report <input type="checkbox"/>	
PUBLIC SAFETY		Approved on _____ COMMENTS BY: Assistant Director of Health	PRELIMINARY: Dis/Approved on _____ By _____ Building Official
Dis/Approved on _____ By _____ Fire Marshal COMMENTS:		Inland Wetland App./Dis. _____	FINAL: Dis/Approved on _____ By _____ Building Official COMMENTS:

# Town of Griswold BUILDING PERMIT NO. 242-98

**This Permit Must Be Attached To Building  
In Plain View From Highway**

110.11

Construction inspection: The building official shall inspect all work performed under the provisions of this code and make continuous special inspections when so required by this code. The permit holder or his agent shall notify the building official when the work is ready for inspection, giving not less than twenty-four (24) hour notice.

Date 4-15-99

*257 Normand Rd*

Building Inspection Dept.

# ELECTRICAL PERMIT

No 251-98

Date 3-29-29

Location of Property 257 Norman St

Owner Ernest Verner

C. Licensed Electrician Joseph Johnson

RESIDENTIAL

Service: New Replacement

Number of Panels

Applicable Circuits

COMMERCIAL

New Replacement

Lighting Load 2 KW

Number of Motors

Remarks: Other Kind of Installations

Capacity in Amps  
Size of Feeders  
Special Circuits & Use  
Voltage 220/240 Amps 2-240 Wire Size #30 C.U  
Miscellaneous Power Load 90 KW  
Total Horsepower of Motors  
Conn. State Contractors' License No 25326 21

Building Official

Pete Taylor

TO THE BUILDING DEPARTMENT, TOWN OF GRISWOLD, CONNECTICUT:

The undersigned, hereby applies for a permit to do work according to the above specifications. All provisions of the Building Ordinances shall be complied with in the installation of this work whether specified herein or not. This Permit may be revoked by the Electrical Inspector at his discretion.

See attached

Renovations in dwelling units where a child under 6 years old resides must demonstrate compliance with 19a-111 of the Ct. General Statutes.

TOWN OF GRISWOLD  
BUILDING DEPARTMENT  
BUILDING/ZONING PERMIT

376-7065

CALL BEFORE  
YOU DIG  
TOLL FREE STATEWIDE  
1-800-922-4455

C.B.Y.D. #

Permit No. 242-98 (office use only) APRIL 15, 1999

Date Permit Issued. ~~XX/XX/99~~ 04/15/99

Bldg. Zon. C.O.

Estimated Cost.. 40,000..... Fee . 320.00 . 20.00 . 3.00 . 343.00 .....

Address of Building.... 257. NORMAN. ROAD.

Zone ..... Map Block Lot .....  
ERNEST NORMAN, - N.E. SITE MANAGEMENT, 1515 NO. STONE ST. W. SUFFIELD Owner ..... Address ..... Ph. # 860-614-3060

Contractor. ROADRUNNER INSTALLATION SERVICE Address . 1050. BUCKLEY HIGHWAY. UNION. CT. 06076

Nature of Proposed Work and Use . ERECTION OF 160' RADIO TOWER - FOUNDATION, ROAD AND .  
FENCE .....

Plans: Yes  No  Type of Construction ..... Size .....

No. of Stories ..... No. of Rooms ..... No. of Baths .....

Garage ..... Breezeway ..... Fireplace ..... Heat .....

## ZONING PERMIT

(To be filled out in conjunction with a building permit involving any new structure addition to an existing structure, or change of use.)

Flood Hazard District ..... *10/98* ZBA# .....

Site Plan Approval # . *See pt 2* Special Zoning Permit # .....

Wetlands ..... *Approved*

Site Suitability# ..... Sewer# ..... A2 Survey .....

Zoning Official Signature . *R. B.* ..... *R. B.*

I hereby certify that the proposed construction will conform to the applicable building and zoning regulations of the Town of Griswold.

Signed *Wayne R.* Date MARCH 29, 1999 ..... Lic# .....

Phone # *860-614-3060* Building Official Approval .....

NO BUILDING OR STRUCTURE SHALL BE OCCUPIED OR USED, UNTIL A  
CERTIFICATE OF OCCUPANCY HAS BEEN ISSUED.

Any part of a driveway over 10% grade must  
be paved - No part of driveway will be  
allowed over 15% grade.

FIRE MARSHAL

I grant permission to the Building Official and Assessor to enter the property to do required inspections.  
I hereby certify that the proposed work will conform to the Basic Building Code and all other Codes as adopted by the State of Connecticut.  
I UNDERSTAND THAT UNDER THE CONNECTICUT AMENDMENT OF THE BUILDING CODE, SECTION 119.1, A CERTIFICATE OF  
OCCUPANCY IS REQUIRED PRIOR TO ANY USE OF THE STRUCTURE.



# Town of Griswold

TOWN HALL, 32 SCHOOL STREET  
JEWETT CITY, CONNECTICUT 06351



SELECTMEN 376-7061  
ASSESSOR 376-7071  
TAX COLLECTOR 376-7068

## APPLICATION FOR DRIVEWAY PERMIT DEPARTMENT OF PUBLIC

TOWN CLERK	376-7063
BUILDING INSPECTOR	376-7065
PLANNING & ZONING	376-7073
BOOKKEEPING	376-7074
SANITARIAN	376-7065

### 1. TO BE FILLED IN BY THE APPLICANT.

APPLICANT'S NAME New England Site Mgmt ADDRESS 158 North St. W. Suffield

TELEPHONE NUMBER (HOME) 860-684-3060 BUSINESS 860-614-3060

Hereby applies for a permit to do driveway construction / reconstruction work at:

LOCATION 257 Main St Rd. BEGINNING 9-12-99

2. CONTRACTOR'S NAME Geer Construction Co. ADDRESS 852 Voluntown Rd, Jewett City  
TELEPHONE NUMBER (HOME) 376-5159 BUSINESS 376-5455

### 3. TO BE SIGNED BY TOWN TREASURER

Surety bonds of not less than Five Hundred Dollars (\$500.00) cash or certified check shall be required by the Board of Selectmen and shall be posted with the Town Treasurer prior to start of any work under this section. The applicant shall be responsible for, and shall assume any and all liability that may arise from work initiated under the provisions of this section. The applicant shall indemnify and hold harmless the Town of Griswold for any liability that may be incurred by said work. Said bond shall remain in full force and effect for a period of six months after the completion of the bonded improvement. This was voted on and approved at the Board of Selectmen's Meeting held on July 23, 1998 and a Town Meeting held on August 27, 1998.

TOWN TREASURER: ✓

### DESCRIPTION OF DRIVEWAY WORK:

Construction  Reconstruction  Drainage  Catch Basin   
Other: \_\_\_\_\_

REQUIREMENT - TEN FOOT PAVED APRON GUTTER LINE TO BE MAINTAINED  
PAVING: A rough sketch plan of dimensions and specifications of all work to be done is to attached.

4. AGREEMENT: The filing of this application constitutes an agreement that the applicant shall comply with all State and Town applicable ordinances, regulations and specifications and that work shall be done in accordance with this application and the plan attached.

APPLICANT: Richard B. Geer DATE: 3-30-99

AGREEMENT APPROVED BY: Paul B. Geer DATE: 4-7-99  
Director of Public Works

WORK COMPLETED AND  
INSPECTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

BOND RELEASE APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
First Selectman

DATE: \_\_\_\_\_  
Town Treasurer

**BUILDING DEPARTMENT  
TOWN OF GRISWOLD**

**CERTIFICATE OF COMPLIANCE**

Dated JULY 12, 1999

No. 5-99

Zone  

This is to certify that the building at 257 NORMAN ROAD

constructed under Permit No. 242-98 conforms substantially to the requirements of Section 119.6 of the Building Code and Zoning Ordinance of the Town of Griswold and is hereby approved for occupancy as indicated below.

Approved for occupancy as THE ERECTION OF 160' RADIO TOWER, FOUNDATION, ROAD & FENCE was

INSPECTED ON JULY 7, 1999 AND WAS FOUND TO REASONABLY COMPLY WITH THE STATE OF CT.

BASIC BUILDING CODE.

Constructed by: ROADRUNNER INSTALLATION SERVICE

Owner: N.E. SITE MANAGEMENT

*[Signature]*  
Building Official

**Notice:** If this certificate is lost or destroyed, a duplicate should be obtained from the Building Department. Any change or extension of the use herein requires a new certificate of occupancy.

# EXHIBIT 6

## Construction Drawings

**SBA APPROVED**

By Stephen Roth at 3:01:09 AM, 11/1/2021

**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 CONTRACT 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 OWNPOINT 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

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

**VICINITY MAP****DIRECTIONS**

MERGE ONTO I-495 NORTH TOWARD MANSFIELD/MARLBORO. TAKE EXIT 33B FOR I-95 SOUTH TOWARD PROVIDENCE RI. TAKE EXIT 6 FOR I-295 SOUTH TOWARD WOONSOCKET/WARWICK. CONTINUE ONTO I-295 SOUTH. USE RIGHT 2 LANES FOR EXIT 9C-A FOR US-6 WEST TOWARD HARTFORD CT. KEEP RIGHT AT FORK & FOLLOW SIGNS FOR JOHNSTON/SCITUATE/FOSTER. MERGE ONTO US-6 WEST. CONTINUE STRAIGHT TO STAY ON US-6 WEST. TAKE SLIGHT LEFT ONTO CONNECTICUT TURNPIKE/GOVERNOR JOHN DAVIS LODGE TURNPIKE. FOLLOW SIGNS FOR I-395 SOUTH/NORWICH. TAKE EXIT ON THE LEFT ONTO I-395 SOUTH. TAKE EXIT 24 FOR CT-201 TOWARD HOPEVILLE. TURN RIGHT ONTO CT-201 NORTH/HOPEVILLE ROAD. TURN LEFT ONTO NORMAN ROAD. SITE IS LOCATED ON THE LEFT HAND SIDE.

**SHEET INDEX**

SHEET NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	0
GN-1	GENERAL NOTES	0
A-1	COMPOUND & EQUIPMENT PLANS	0
A-2	GENERATOR DETAILS	0
A-3	GENERATOR SPECIFICATIONS 1	0
A-4	GENERATOR SPECIFICATIONS 2	0
E-1	ELECTRIC & GROUNDING DETAILS	0

**DO NOT SCALE DRAWINGS**

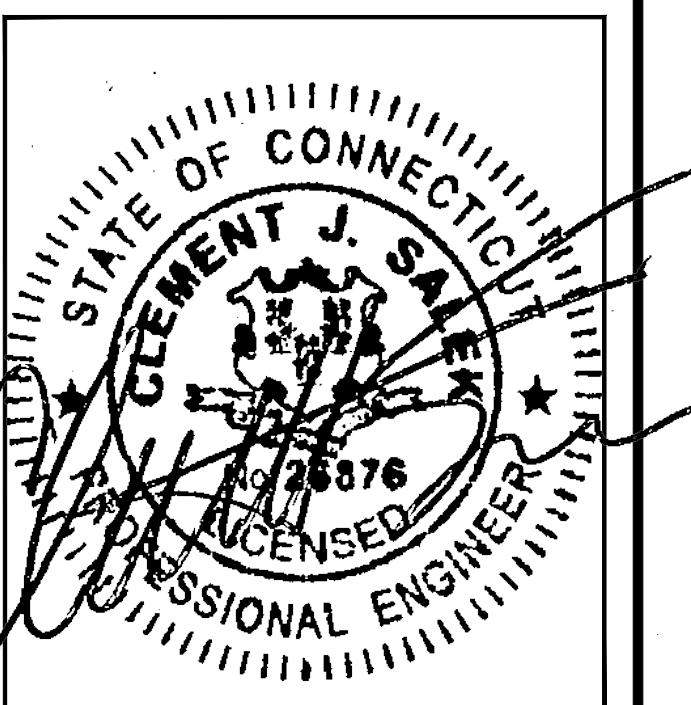
CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

**SCOPE OF WORK**

REMOVE:	INSTALL:
• NONE	<ul style="list-style-type: none"> <li>• 1 GENERATOR</li> <li>• 1 AUTOMATIC TRANSFER SWITCH</li> <li>• 2 20A-1P BREAKERS</li> </ul>

**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.

**T-MOBILE**  
**NORTHEAST LLC**
15 COMMERCE WAY, SUITE B  
NORTON, MA 02766  
(508) 286-2700**SBA**SBA COMMUNICATIONS CORP.  
134 FLANDERS ROAD, SUITE 125  
WESTBOROUGH, MA 01581  
(508) 251-0720
**C** **CHAPPELL**  
**ENGINEERING**  
**ASSOCIATES, LLC**  
*Civil Structural-Land Surveying*  
R.K. EXECUTIVE CENTRE  
201 BOSTON POST ROAD WEST, SUITE 101  
MARLBOROUGH, MA 01752  
(508) 481-7400  
www.chappelleengineering.com
**PROJECT SUMMARY**

SITE NUMBER: CT11152C  
SITE NAME: GRISWOLD/I-395 X85/BMW  
SBA SITE NUMBER: CT10012-A  
SBA SITE NAME: GRISWOLD 2, CT  
SITE ADDRESS: 181A NORMAN ROAD  
GRISWOLD, CT 06351  
PROPERTY OWNER: ERNEST R. & STUART R. NORMAN  
257 NORMAN ROAD  
GRISWOLD, CT 06351  
TOWER OWNER: SBA TOWERS II, LLC  
8501 CONGRESS AVENUE  
BOCA RATON, FL 33487  
PHONE: 561-226-9523  
COUNTY: NEW LONDON  
ZONING DISTRICT: R-60 (LOW-DENSITY RESIDENTIAL)  
STRUCTURE TYPE: SELF-SUPPORT TOWER  
STRUCTURE HEIGHT: 162'  
APPLICANT: T-MOBILE NORTHEAST LLC  
15 COMMERCE WAY, SUITE B  
NORTON, MA 02766  
ARCHITECT: CHAPPELL ENGINEERING ASSOCIATES, LLC.  
201 BOSTON POST ROAD WEST, SUITE 101  
MARLBOROUGH, MA 01752  
STRUCTURAL ENGINEER: CHAPPELL ENGINEERING ASSOCIATES, LLC.  
201 BOSTON POST ROAD WEST, SUITE 101  
MARLBOROUGH, MA 01752  
SITE CONTROL POINT: LATITUDE: 41.601285° N41°36'04.63" LONGITUDE: -71.953866° W71°57'13.92"

SITE NUMBER:  
**CT11152C**SITE ADDRESS:  
181A NORMAN ROAD  
GRISWOLD, CT 06351TITLE SHEET  
SHEET NUMBER**T-1**

1815.320

**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).

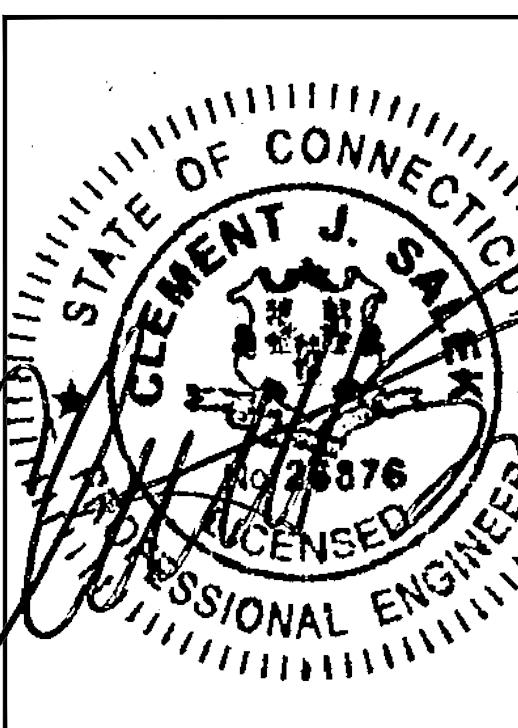
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CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
0	10/29/21	ISSUED FOR REVIEW	CMC

SITE NUMBER:  
**CT11152C**

SITE ADDRESS:  
181A NORMAN ROAD  
GRISWOLD, CT 06351

SHEET TITLE  
GENERAL NOTES

SHEET NUMBER  
**GN-1**

1815.320

**GENERAL NOTES:**

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:  
CONTRACTOR - T-MOBILE  
SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)  
OWNER - T-MOBILE  
OEM - ORIGINAL EQUIPMENT MANUFACTURER
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
4. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL, STATE AND FEDERAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
5. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER, T1 CABLES AND GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR AND/OR LANDLORD PRIOR TO CONSTRUCTION.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION AND RETURN DISTURBED AREAS TO ORIGINAL CONDITIONS.
13. THE SUBCONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
14. SUBCONTRACTOR SHALL NOTIFY CHAPPELL ENGINEERING ASSOCIATES, LLC 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING TRENCHES, SEALING ROOF AND WALL PENETRATIONS AND POST DOWNS, FINISHING NEW WALLS OR FINAL ELECTRICAL CONNECTIONS FOR ENGINEERING REVIEW.
15. CONSTRUCTION SHALL COMPLY WITH ALL T-MOBILE STANDARDS AND SPECIFICATIONS.
16. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
17. THE EXISTING CELL SITES ARE IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
18. IF THE EXISTING CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

**SITE WORK GENERAL NOTES:**

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
5. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
6. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
7. THE SUB GRADE SHALL BE COMPAKTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
8. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING, OWNER AND/OR LOCAL UTILITIES.
9. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
10. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
11. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE T-MOBILE SPECIFICATION FOR SITE SIGNAGE.

**CONCRETE AND REINFORCING STEEL NOTES:**

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. A HIGHER STRENGTH (400PSI) MAY BE USED. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 381 CODE REQUIREMENTS.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:  
CONCRETE CAST AGAINST EARTH.....3 IN.  
CONCRETE EXPOSED TO EARTH OR WEATHER:  
#6 AND LARGER .....2 IN.  
#5 AND SMALLER & WWF .....1 1/2 IN.  
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:  
SLAB AND WALL .....3/4 IN.  
BEAMS AND COLUMNS .....1/2 IN.
5. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHORS SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. ALL EXPANSION/WEDGE ANCHORS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY SIMPSON OR APPROVED EQUAL.
7. CONCRETE CYLINDER TIES ARE NOT REQUIRED FOR SLAB ON GRADE WHEN CONCRETE IS LESS THAN 50 CUBIC YARDS (IBC1905.6.2.3) IN THAT EVENT THE FOLLOWING RECORDS SHALL BE PROVIDED BY THE CONCRETE SUPPLIER;  
(A) RESULTS OF CONCRETE CYLINDER TEST PERFORMED AT THE SUPPLIERS PLANT.  
(B) CERTIFICATION OF MINIMUM COMPRESSIVE STRENGTH FOR THE CONCRETE GRADE SUPPLIED. FOR GREATER THAN 50 CUBIC YARDS THE GC SHALL PERFORM THE CONCRETE CYLINDER TEST.
8. AS AN ALTERNATIVE TO ITEM 7, TEST CYLINDERS SHALL BE TAKEN INITIALLY AND THEREAFTER FOR EVERY 50 YARDS OF CONCRETE FROM EACH DIFFERENT BATCH PLANT.
9. EQUIPMENT SHALL NOT BE PLACED ON NEW PADS FOR SEVEN DAYS AFTER PAD IS POURED, UNLESS IT IS VERIFIED BY CYLINDER TESTS THAT COMPRESSIVE STRENGTH HAS BEEN ATTAINED.

**STRUCTURAL STEEL NOTES:**

1. ALL STEEL WORK SHALL BE PAINTED OR GALVANIZED IN ACCORDANCE WITH THE DRAWINGS AND T-MOBILE SPECIFICATIONS UNLESS OTHERWISE NOTED. STRUCTURAL STEEL SHALL BE ASTM-A-36 UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC DRAWINGS. STEEL DESIGN, INSTALLATION AND BOLTING SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION".
2. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION. PAINTED SURFACES SHALL BE TOUCHED UP.
3. BOLTED CONNECTIONS SHALL USE BEARING TYPE ASTM A325 BOLTS (3/8") AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE GALVANIZED OR STAINLESS STEEL.
4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A 307 BOLTS (GALV) UNLESS NOTED OTHERWISE.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW & APPROVAL ON PROJECTS REQUIRING STRUCTURAL STEEL.
6. ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.

**SOIL COMPACTION NOTES FOR SLAB ON GRADE:**

1. EXCAVATE AS REQUIRED TO REMOVE VEGETATION AND TOPSOIL TO EXPOSE NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.
2. COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.
3. AS AN ALTERNATE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPAKTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.
4. COMPAKTED SUBBASE SHALL BE UNIFORM AND LEVELED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPAKTED IN 3" LIFTS ABOVE COMPAKTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING #1 SIEVE.
5. AS AN ALTERNATE TO ITEMS 2 AND 3, THE SUBGRADE SOILS WITH 5 PASSES OR A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPR 30/38) OR HAND-OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS BOMAG BW 55E). AND SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADED GRANULAR FILL AND COMPAKTED AS STATED ABOVE.

**COMPACTION EQUIPMENT:**

1. HAND OPERATED DOUBLE DRUM, VIBRATORY ROLLER, VIBRATORY PLATE COMPACTOR OR JUMPING JACK COMPACTOR.
2. FIELD VERIFICATION:  
SUBCONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, T-MOBILE ANTENNA PLATFORM LOCATION AND UTILITY TRENCHWORK.
3. COORDINATION OF WORK:  
SUBCONTRACTOR SHALL COORDINATE RF WORK AND PROCEDURES WITH CONTRACTOR.
4. CABLE LADDER RACK:  
SUBCONTRACTOR SHALL FURNISH AND INSTALL CABLE LADDER RACK, CABLE TRAY AND/OR ICE BRIDGE, AND CONDUIT AS REQUIRED TO SUPPORT CABLES TO THE NEW BTS LOCATION.

**ELECTRICAL INSTALLATION NOTES:**

1. WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
2. SUBCONTRACTOR SHALL MODIFY OR INSTALL CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLING TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
4. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
5. EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA, AND MATCH INSTALLATION REQUIREMENTS.
6. POWER PHASE CONDUCTORS (I.E., HOTs) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC AND OSHA.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#34 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
13. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#34 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
14. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY HARGER (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
15. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
16. NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
17. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
18. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
19. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
20. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
21. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
22. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
23. CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
24. CABINETS, BOXES AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
25. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
26. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
27. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
28. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
29. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
30. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.
31. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
32. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

SITE NUMBER:  
**CT11152C**

SITE ADDRESS:  
181A NORMAN ROAD  
GRISWOLD, CT 06351

SHEET TITLE  
GENERAL NOTES

SHEET NUMBER  
**GN-1**

1815.320

**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.

This architectural site plan illustrates the layout of a telecommunications tower site. The plan includes the following key features and dimensions:

- TRUE NORTH / MAGNETIC NORTH:** Indicated by a compass rose in the top left corner.
- EXIST. CHAIN LINK FENCE (TYP.):** A fence line running horizontally across the top of the site, labeled with a length of  $59'-2" \pm$ .
- EXIST. VERIZON EQUIPMENT SHELTER:** A large rectangular structure located in the upper right quadrant.
- EXIST. 12'-3"  $\pm$  WIDE DOUBLE SWING GATE:** A gate structure located on the left side of the site.
- EXIST. T-MOBILE CABLES ROUTED ALONG EXIST. ICE BRIDGE (TO REMAIN):** A note indicating the routing of cables along an existing ice bridge.
- EXIST. T-MOBILE GPS ANTENNA MOUNTED TO EXIST. H-FRAME POST (TO REMAIN):** A note indicating the location of an existing T-Mobile GPS antenna.
- EXIST. T-MOBILE EQUIPMENT MOUNTED TO EXIST. 5'-6" x 10'-0" & 5'-6" x 5'-6" CONCRETE PADS (TO REMAIN):** A note indicating the location of existing T-Mobile equipment mounted on concrete pads.
- EXIST. T-MOBILE ICE BRIDGE (TO REMAIN):** A note indicating the location of an existing T-Mobile ice bridge.
- EXIST. T-MOBILE TO UTILIZE EXIST. SITE ACCESS:** A note indicating that T-Mobile will utilize existing site access.
- EXIST. TRANSFORMER:** A small rectangular structure located on the left side.
- EXIST. GEN. (BY OTHERS):** A small rectangular structure located on the left side.
- EXIST. UTILITY BACKBOARD:** A small rectangular structure located on the left side.
- EXIST. EQUIPMENT SHELTER (BY OTHERS):** A large rectangular structure located on the left side.
- EXIST. AT&T EQUIPMENT PAD:** A rectangular area labeled "CONCRETE" containing equipment pads.
- EXIST. TOWER FOUNDATION (TYP.):** A large rectangular area labeled "CONCRETE" containing a foundation.
- EXIST. 162'  $\pm$  SELF-SUPPORT TOWER:** A tall vertical structure located on the right side.
- EXIST. T-MOBILE TOWER TOP EQUIPMENT:** Equipment located at the top of the self-support tower.
- EXIST. 62'-2 1/2" TOWER:** A tall vertical structure located on the right side.
- EXIST. 60'-0"  $\pm$  TOWER:** A tall vertical structure located on the right side.

**EXISTING EQUIPMENT PLAN**

SCALE: 3/8" = 1'-0"

NOTE: BURY CONDUITS, AS REQUIRED, TO AVOID TRIP HAZARD.

3'-0"± MIN. ACCESS CLEARANCE

3'-0"± MIN. ACCESS CLEARANCE

EXIST. T-MOBILE 5'-6"x5'-6" CONCRETE PAD (TO REMAIN)

EXIST. T-MOBILE GPS ANTENNA MOUNTED TO EXIST. H-FRAME POST (TO REMAIN)

EXIST. T-MOBILE 5'-6"x10'-0"± CONCRETE PAD (TO REMAIN)

EXIST. T-MOBILE 5'-6"x10'-0"± CONCRETE PAD (TO REMAIN)

EXIST. T-MOBILE ICE BRIDGE (TO REMAIN)

EXIST. T-MOBILE ERICSSON B160 BATTERY CABINET (TO REMAIN)

EXIST. T-MOBILE ERICSSON 6160 EQUIPMENT CABINET (TO REMAIN)

EXIST. T-MOBILE CABLES ROUTED ALONG EXIST. ICE BRIDGE (TO REMAIN)

EXIST. T-MOBILE 200A PPC, SURGE PROTECTOR & DISCONNECT MOUNTED TO EXIST. H-FRAME (TO REMAIN)

EXIST. T-MOBILE EMERSON NETXTEND COMPACT 2416 FIBER CABINET MOUNTED TO EXIST. POST (TO REMAIN)

EXIST. T-MOBILE ERICSSON 6201 ODE EQUIPMENT CABINET (TO REMAIN)

EXIST. T-MOBILE PTS 8003 190AH BATTERY CABINET (TO REMAIN)

EXIST. T-MOBILE 5'-6"x5'-6" CONCRETE PAD (TO REMAIN)

EXIST. T-MOBILE GPS ANTENNA MOUNTED TO EXIST. H-FRAME POST (TO REMAIN)

EXIST. T-MOBILE 5'-6"x10'-0"± CONCRETE PAD (TO REMAIN)

EXIST. T-MOBILE 5'-6"x10'-0"± CONCRETE PAD (TO REMAIN)

EXIST. T-MOBILE ICE BRIDGE (TO REMAIN)

EXIST. T-MOBILE ERICSSON B160 BATTERY CABINET (TO REMAIN)

EXIST. T-MOBILE ERICSSON 6160 EQUIPMENT CABINET (TO REMAIN)

EXIST. T-MOBILE CABLES ROUTED ALONG EXIST. ICE BRIDGE (TO REMAIN)

EXIST. T-MOBILE 200A PPC, SURGE PROTECTOR & DISCONNECT MOUNTED TO EXIST. H-FRAME (TO REMAIN)

EXIST. T-MOBILE EMERSON NETXTEND COMPACT 2416 FIBER CABINET MOUNTED TO EXIST. POST (TO REMAIN)

EXIST. T-MOBILE ERICSSON 6201 ODE EQUIPMENT CABINET (TO REMAIN)

EXIST. T-MOBILE PTS 8003 190AH BATTERY CABINET (TO REMAIN)

# 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](http://www.chappellengineering.com)

CHECKED BY: JMT

SITE NUMBER:  
**CT11152C**

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SHEET TITLE

# COMPOUND & EQUIPMENT PLAN

---

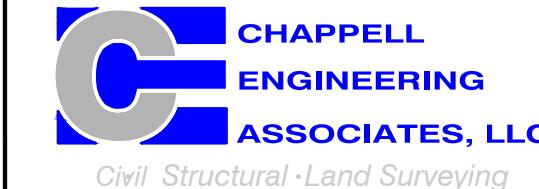
**SHEET NUMBER**

T-MOBILE  
NORTHEAST LLC

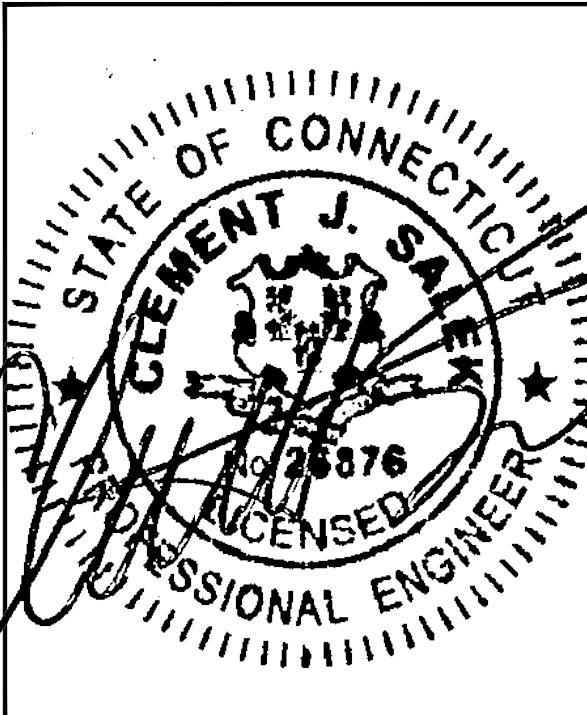
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SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
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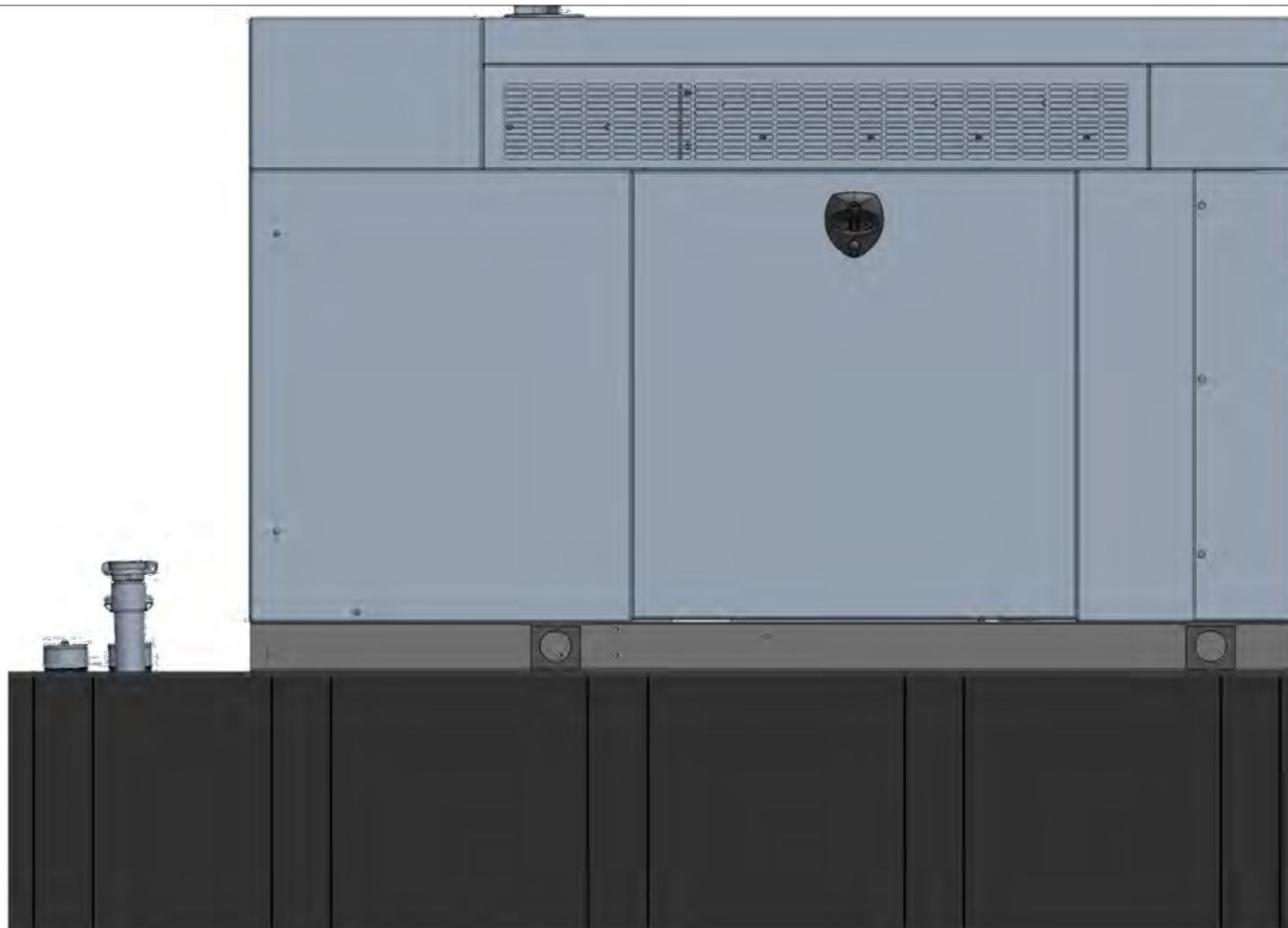
SITE NUMBER:  
CT11152C

SITE ADDRESS:  
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GRISWOLD, CT 06351

SHEET TITLE  
GENERATOR DETAILS

SHEET NUMBER  
A-2

NOTE:  
GENERATOR DIESEL TANK TO  
BE FILLED BY CONTRACTOR



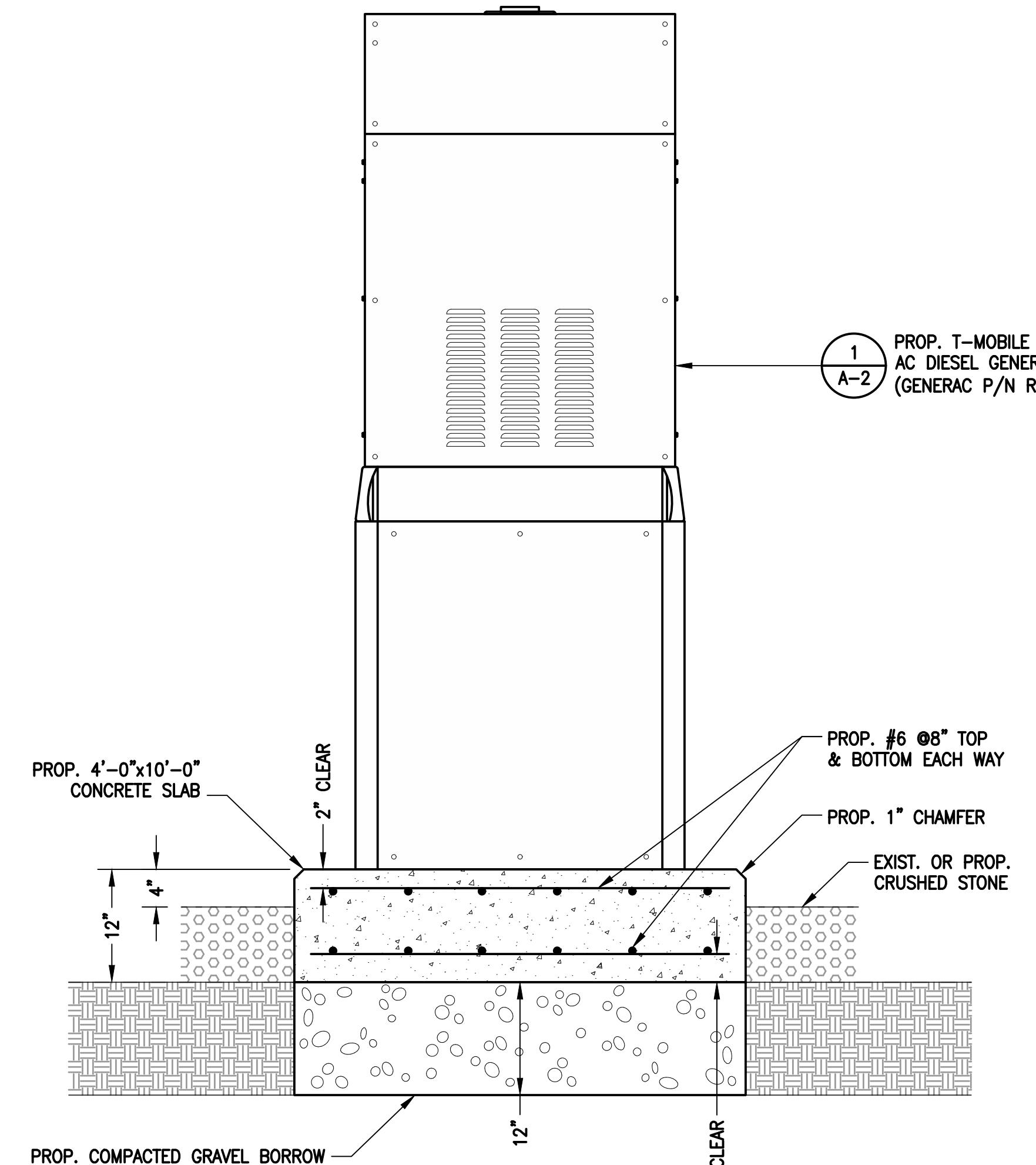
GENERAC RD025 25kW AC DIESEL GENERATOR

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.

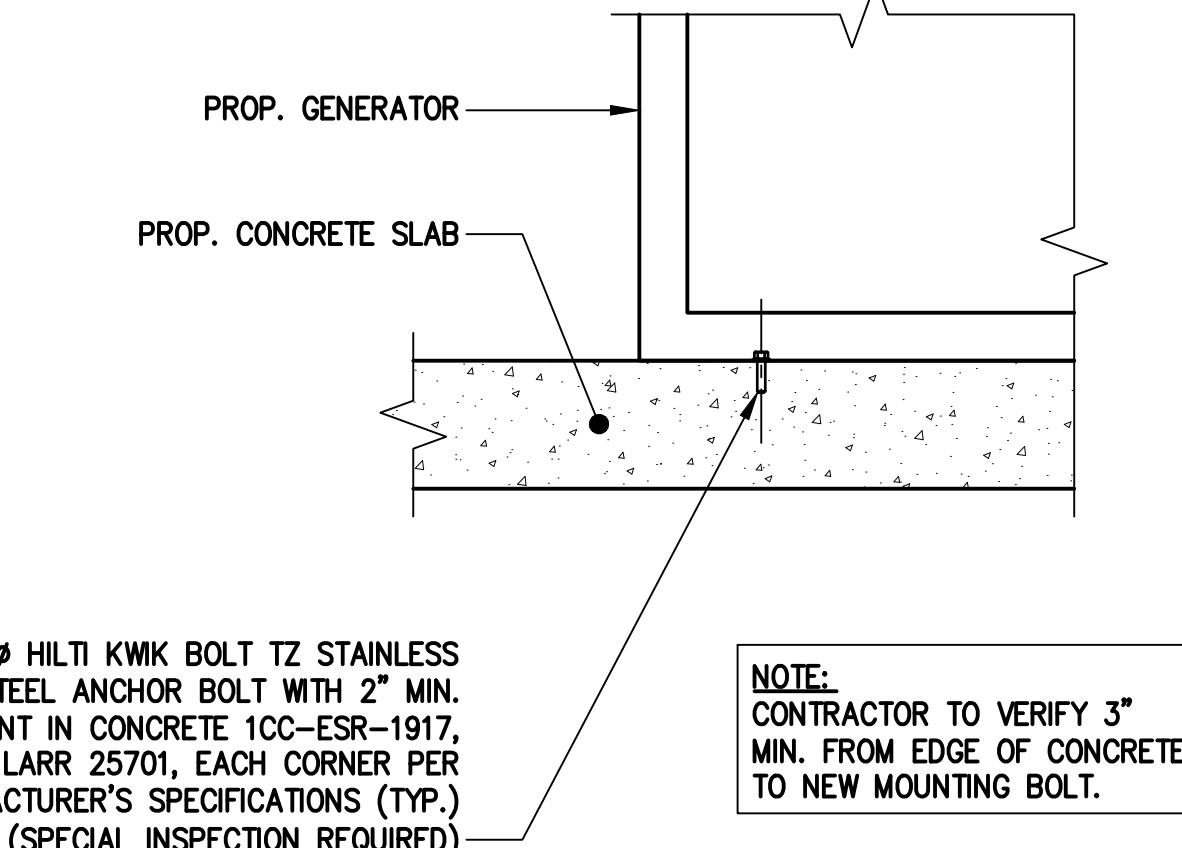
1  
A-2



GENERATOR PAD DETAIL

SCALE: N.T.S.

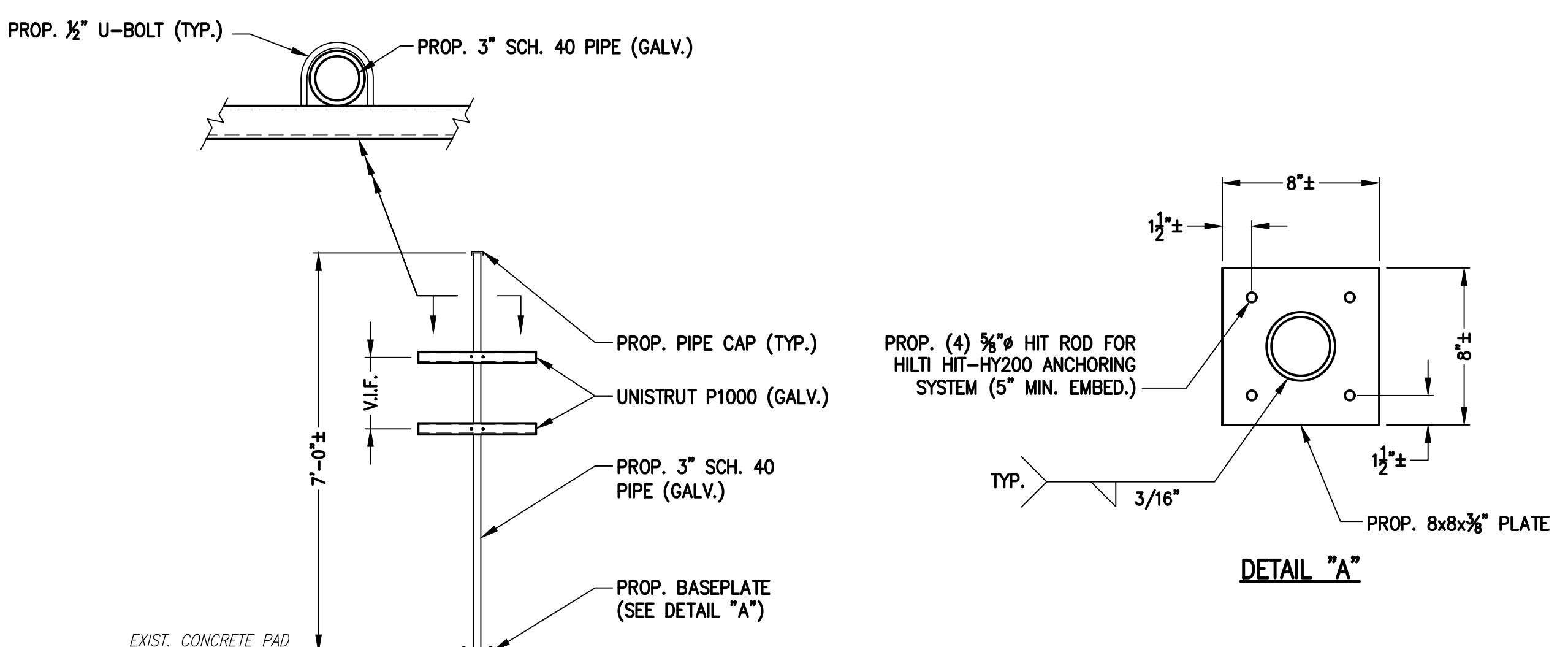
2  
A-2



GENERATOR MOUNTING DETAIL

SCALE: N.T.S.

3  
A-2



H-FRAME DETAIL

SCALE: N.T.S.

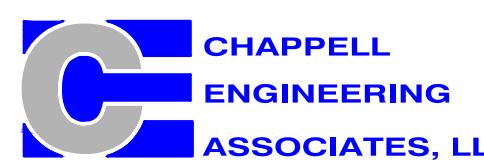
4  
A-2

T-MOBILE  
NORTHEAST LLC

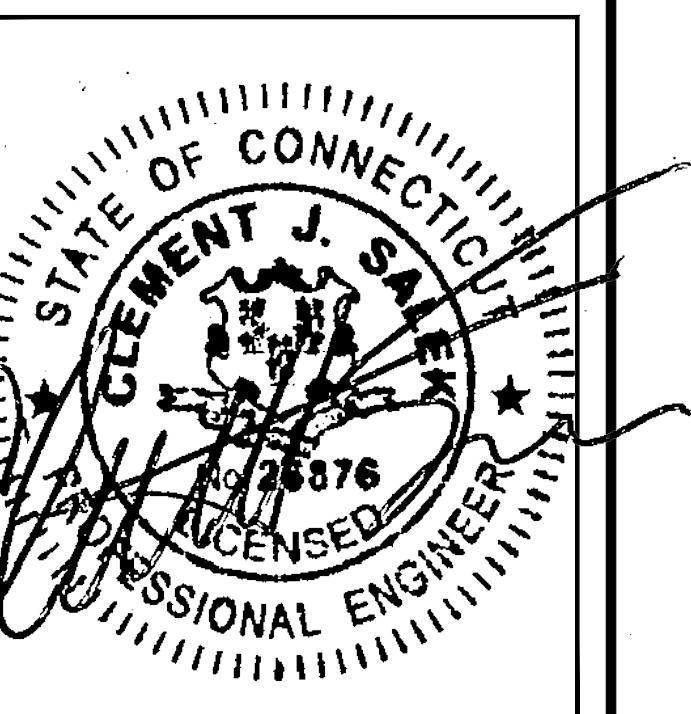
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SHEET TITLE  
GENERATOR SPECIFICATIONS 1

SHEET NUMBER  
A-3

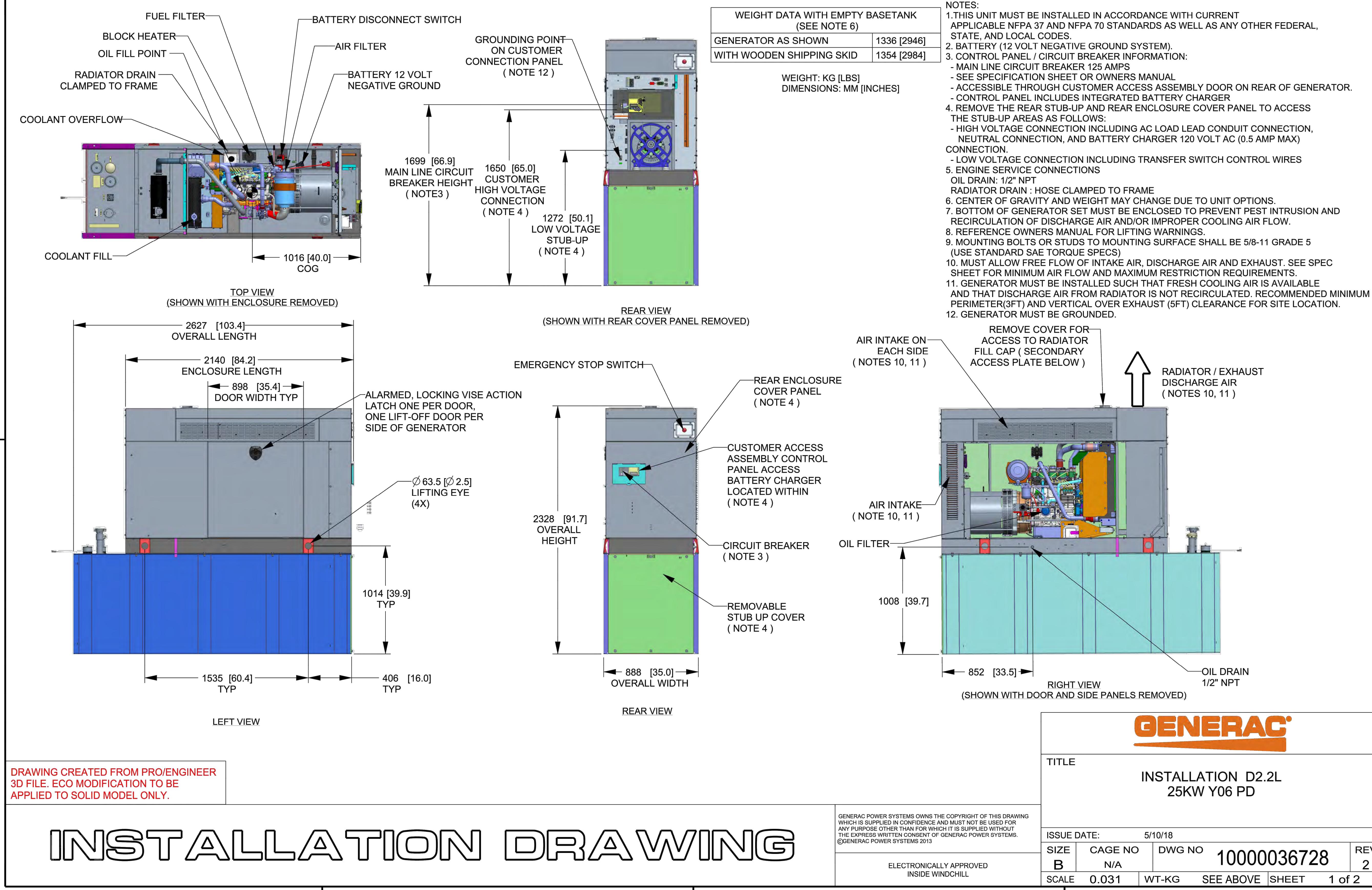
1815.320

4

3

SH 1/2 REV 2 WINDCHILL VERSION 2.12

1



# INSTALLATION DRAWING

1  
A-3

1815.320

T-MOBILE  
NORTHEAST LLC

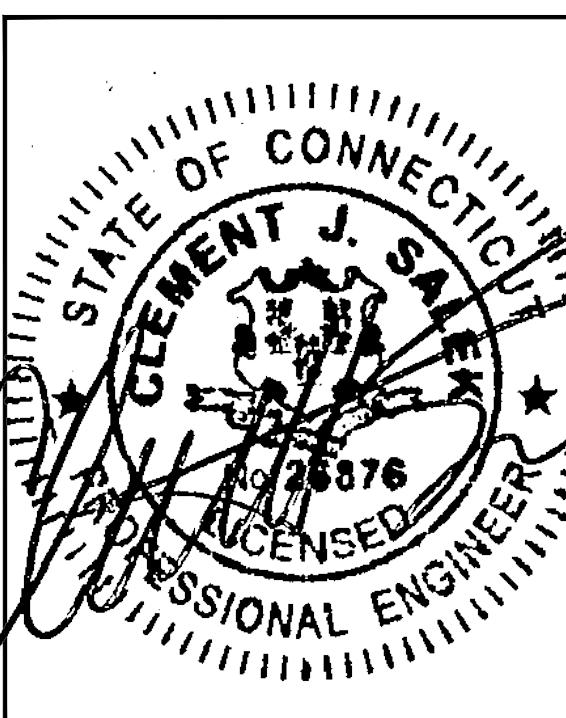
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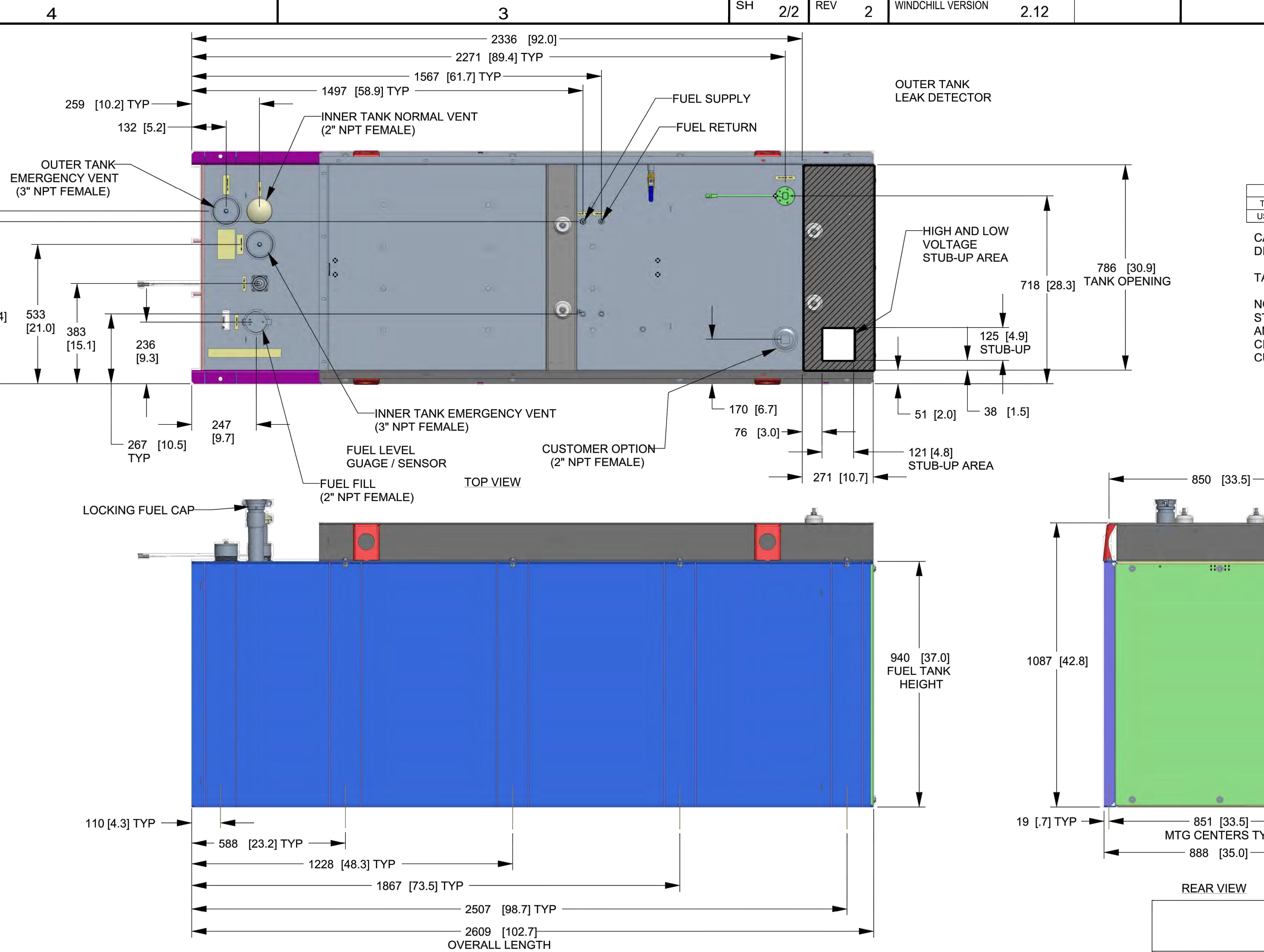
SITE ADDRESS:  
181A NORMAN ROAD  
GRISWOLD, CT 06351

SHEET TITLE  
GENERATOR SPECIFICATIONS 2

SHEET NUMBER  
A-4

1815.320

4 3 SH 2/2 REV 2 WINDCHILL VERSION 2.12 1



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

# INSTALLATION DRAWING

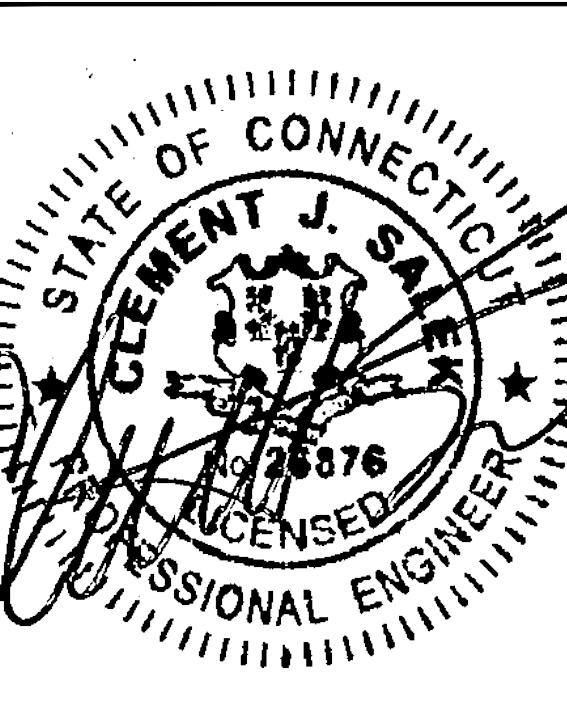
# T-MOBILE NORTHEAST LLC

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SBA COMMUNICATIONS CORP.  
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**ASSOCIATES, LLC**  
*Civil Structural • Land Surveying*

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## ELECTRICAL AND GROUNDING NOTES

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
  2. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED 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 IS 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) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
  6. BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
  7. ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THININSULATION.
  8. RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATON POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
  9. RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATON 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.
  10. 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.
  11. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
  12. PPC SUPPLIED BY PROJECT OWNER.
  13. 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".
  14. GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
  15. 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.
  16. ALL GROUND CONNECTIONS TO BE BURNDY HYGROUNDS COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
  17. 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.
  18. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
  19. APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
  20. CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXIST. TOWER/ MONPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.
  21. CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMNS MINIMUM RESISTANCE REQUIRED.
  22. CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LNA RETURN-LOSS AND DISTANCE- TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.

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113. *Leucosia* (Leucosia) *leucostoma* (Fabricius) (Fig. 113)

## ELECTRIC & GROUNDING DETAILS

SHEET NUMBER

**NOTE:**  
CUT BACK (E) MAIN POWER CONDUIT, AS  
REQUIRED, & RECONNECT TO (P) ATS.

PROPS. 25kW AC DIESEL GENERATOR

PROPS. GENERAC ATS  
200A, 120/240V, 1Ø IN  
NEMA 3R ENCLOSURE

PROPS. (2) 20A-1P BREAKERS FOR  
GENERATOR HEATER & BATTERY CHARGE

EXIST. EQUIPMENT CABINET (TYP.)

PROPS. #2G SERVICE TO EXIST. GROUND RING PER NEC

PROPS. 2" SCH. 40 CONDUIT W/(3) #3/0 & (1) #2G FOR MAIN POWER SUPPLY FROM PROPS. GENERATOR TO PROPS. ATS

PROPS. 1-1/2" SCH. 40 CONDUIT W/(4) #12AWG & (1) #12G FOR GENERATOR HEATER & BATTERY CHARGER

EXIST. 2" RGS CONDUIT (TYP.)

PROPS. 2" RGS CONDUIT W/(2) #3/0 & (1) #2G FOR MAIN POWER SUPPLY FROM PROPS. ATS TO EXIST. PPC

PROPS. 2" SCH. 40 CONDUIT FOR GENERATOR CONTROLS & ALARMS FROM PROPS. GENERATOR TO EXIST. EQUIPMENT CABINET

ONE-LINE POWER DIAGRAM  
SCALE: NOT TO SCALE

1  
E-1

# ONE-LINE POWER DIAGRAM

SCALE: NOT TO SCALE



The diagram illustrates the installation of a rigid steel conduit above ground. A vertical section of rigid steel conduit is shown, starting from a horizontal 'GRADE' line. At the top, a 'RIGID STEEL CONDUIT PLUG' is attached. A vertical dimension line indicates a height of '6"' from the grade line to the top of the plug. The conduit then curves downwards and to the right, ending with a 'RIGID STEEL TO PVC ADAPTOR' at the bottom. A horizontal dimension line indicates a distance of '12"' from the grade line to the end of the adaptor. The entire assembly is shown above a hatched ground surface.

# TYPICAL CONDUIT STUB-UP DETAIL

---

SCALE: NONE

3

E-1

The diagram illustrates the assembly of the ANDREW UGBKIT2 antenna mount ground. It shows a vertical metal plate with multiple mounting holes. A coaxial cable, labeled 'COAX CABLE', is connected to the top of the plate. A bracket labeled 'ANTENNA MOUNT GROUND' is attached to the top edge of the plate. A vertical pipe, labeled 'CADWELD', is connected to the side of the plate. A label 'TO GROUNDING RING (LOWER EGB)' points to a hole in the plate, indicating where it connects to a grounding ring.

# GROUND BAR (EGB)

NOTES:

1. "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
3. CADWELL DOWNLOADS FROM UPPER EGB, LOWER EGB AND MGB.

**TYPICAL GROUND BAR CONNECTIONS DETAIL**

SCALE: NOT TO SCALE

5

E-1

# EXHIBIT 7

Generac RD025 25 KW  
25kw Diesel Specifications

**Standby Power Rating**

25 kW, 31.25 kVA, 60 Hz



\*Built in the USA using domestic and foreign parts



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



American National Standards Institute

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.

**RD025 | 2.2L | 25 kW**  
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

**GENERAC** | INDUSTRIAL  
POWER

## 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

**RD025 | 2.2L | 25 kW**  
**INDUSTRIAL DIESEL GENERATOR SET**

EPA Certified Stationary Emergency

**GENERAC®** | INDUSTRIAL  
 POWER

**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

**GENERAC®** | INDUSTRIAL POWER

## OPERATING DATA

### POWER RATINGS

	Standby
Single-Phase 120/480 VAC @0.1pf	25 kW
Three-Phase 120/208 VAC @0.8pf	25 kW
Three-Phase 120/240 VAC @0.8pf	25 kW
Three-Phase 277/480 VAC @0.8pf	25 kW
	Amps: 104
	Amps: 87
	Amps: 75
	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)
Coolant System Capacity	gal (L)
Heat Rejection to Coolant	BTU/hr (MJ/hr)
Max. Operating Ambient Temperature	°F (°C)
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

	Standby
Rated Engine Speed rpm	1,800
Exhaust Flow (Rated Output)	ft <sup>3</sup> /min (m <sup>3</sup> /min)
Exhaust Temp (Rated Output - Post Silencer)	°F (°C)
	296.6 (8.4)
	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 018750SSB

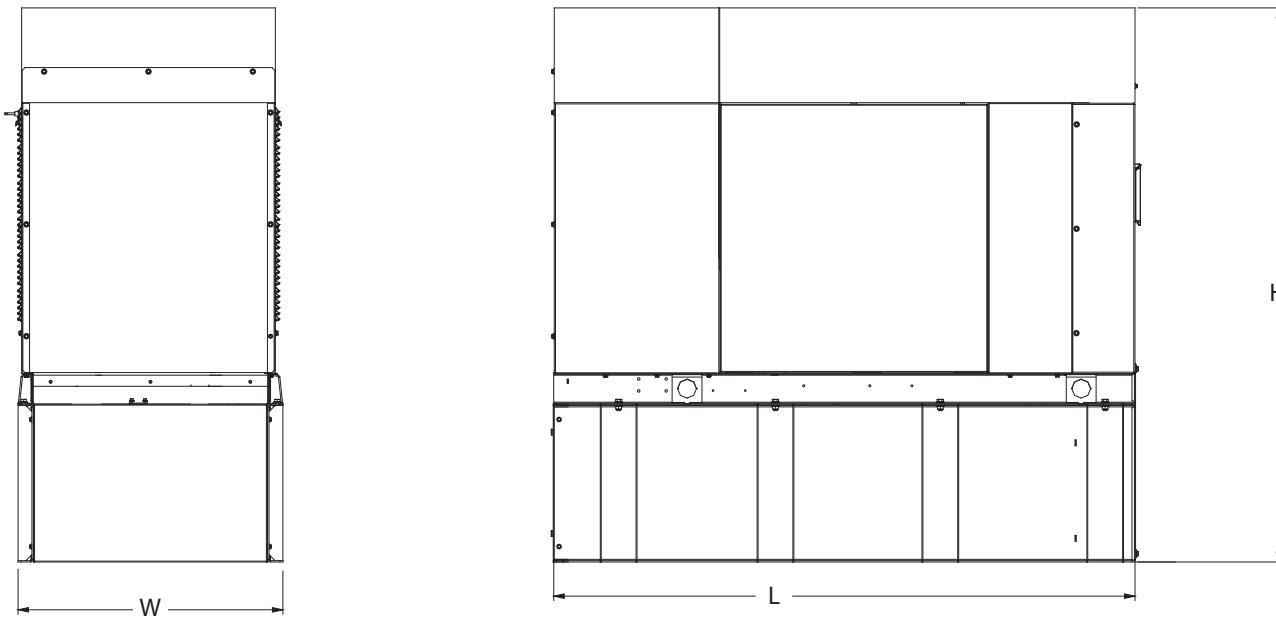
**RD025 | 2.2L | 25kW**

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

**GENERAC® | INDUSTRIAL POWER**

### 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

with fuel tank  
103.4" 35" x 91.7"

Fuel Tank Gross Total Capacity 240

Fuel Tank Gross Usable Capacity 229

Fuel Tank Net Usable Capacity  
(Run Hours Based on Net Usable Capacity) 206

Run Hours 100% Load 98

Run Hours 75% Load 125

Run Hours 50% Load 161

#### 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.

**YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER**

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 8

Map showing nearest wetlands

