



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

October 29, 2021

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

RE: Notice of Exempt Modification
1294 Pleasant Valley Road, Groton, CT
Latitude: 41.399972
Longitude: -72.079222
T-Mobile Site #: CT11311G_Hardening

Dear Ms. Bachman:

T-Mobile currently maintains six (6) antennas at the 137-foot level of the existing 149-foot Monopole Tower at 1294 Pleasant Valley Road, Groton, CT. The 149-foot tower is owned by SBA Towers, LLC. The property is owned by JFM Enterprises, LLC. T-Mobile now intends to add one (1) Generac RD025 Diesel generator to a proposed 4' x 10' concrete pad, within an existing 50' x 50' fenced in lease area with 16' wide double swing gate. The 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
- 4' x 10' concrete pad
- (1) 2" RGS conduit for emergency power from prop. ATS to exist. PPC
- (1) 2" RGS conduit for emergency power from prop. generator to prop. ATS
- (1) 1-1/2" RGS conduit for generator heater & battery from exist. PPC to Prop. generator
- (1) 2" RGS conduit for Ethernet cable for generator controls & Alarms from exist. Equip cabinet to prop generator
- Generac 200A, 120/240v, Automatic Transfer switch mounted to existing H-Frame

Remaining:

- T-Mobile equip. mounted to exist. 5' x 20' concrete pad
- T-Mobile GPS antenna mounted to exist. Ice bridge
- T-Mobile Ice Bridge
- T-Mobile 200A PPC & Ciena Fiber box mounted exist. Concrete pad
- Existing T-Mobile Emerson Nextend compact 2416 Fiber cabinet to exist. Pipe
- Ericsson RBS6131 Equip. 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 Groton, 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, fenced-in compound. The new generator and tank will be surrounded by the existing security fence and gate.

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 Groton's Mayor, Patrice Granatosky, Deborah G. Jones, AICP, Assistant Director P&Z, as well as to the property owner. (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
508.868.6000 + C
GShepherd@sbsite.com

Attachments

- cc: Patrice Granatosky, Mayor / with attachments
Town of Groton, 45 Fort Hill Rd. Groton, CT 06340
Deborah G. Jones, AICP, Assistant Director / with attachments
134 Groton Long Point Rd., Groton, CT 06340-4873
JFM Enterprises, LLC / with attachments
31 A Atlanta Ct., Groton, CT 06340 (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 Groton (6/7/07) CSC Docket No. 330 (6/12/07)
Exhibit 6	Construction Drawings	Chappell 10/14/21
Exhibit 7	Generator Specifications	x
Exhibit 8	Wetlands Map	x

EXHIBIT 1

Copy of Check for filing fee.

EXHIBIT 2

FedEx Labels

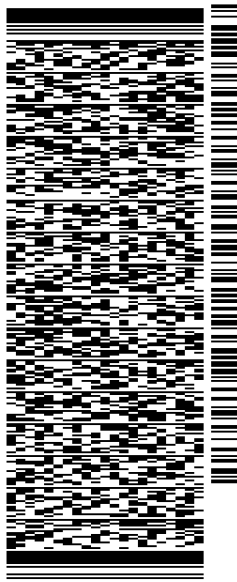
ORIGIN ID:BFBA (508) 614-0389
RICK WOODS
SBA COMMUNICATIONS CORPORATION
134 FLANDERS RD
SUITE 125
WESTBOROUGH, MA 01581
UNITED STATES US

SHIP DATE: 29OCT21
ACTWGT: 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: 105692009-6089
INV. PO. DEPT:

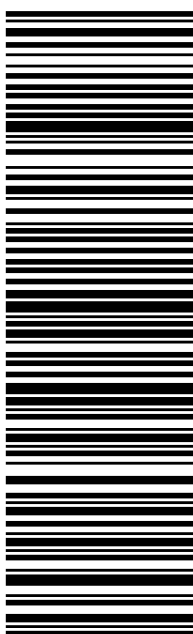


TRK# 7750 6959 2954
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MON - 01 NOV 10:30A
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SEBDLA

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TRACK



LOCATIONS

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775069592954

TRACK

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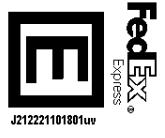
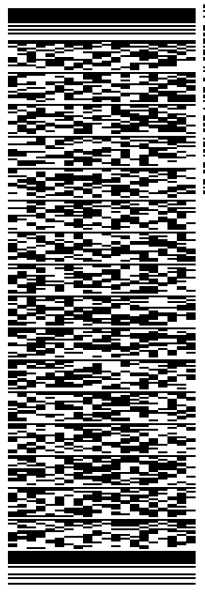
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WESTBOROUGH, MA 01581
UNITED STATES US

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TO
PATRICE GRANATOSKY
TOWN OF GROTON
MAYOR
45 FIRT HILL RD
GROTON CT 06340
(508) 251-0720 X 3807
INV#
PO: DEPT:

REF: 105692009-6089

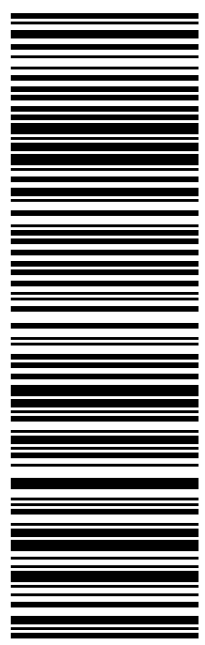
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FROM

SBA COMMUNICATIONS CORPORATION

Rick Woods

134 Flanders Rd

Suite 125

WESTBOROUGH, MA US 01581

508-614-0389

TO

Patrice Granatosky

Town of Groton

Mayor

45 Firt Hill Rd

GROTON, CT US 06340

508-251-0720

[MANAGE DELIVERY](#)

Travel History

Shipment Facts

Travel History

TIME ZONE

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ACTUAL PICK UP 10/29/21 ?	STANDARD TRANSIT 11/1/21 before 11:30 am ?	SCHEDULED DELIVERY 11/1/21 before 11:30 am

- All (30)
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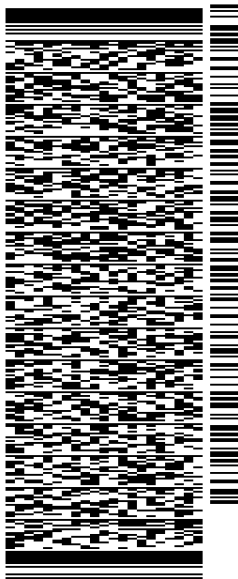
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RICK WOODS
SBA COMMUNICATIONS CORPORATION
134 FLANDERS RD
SUITE 125
WESTBOROUGH, MA 01581
UNITED STATES US

SHIP DATE: 29OCT21
ACTWGT: 1.00 LB
CAD: 105843304/NET4400
BILL SENDER

TO **DEBORAH G. JONES**
TOWN OF GROTON
AICP, ASST. DIRECTOR
45 FIRT HILL RD
GROTON CT 06340
(508) 251-0720 X.3807
INV#
PO: DEPT:

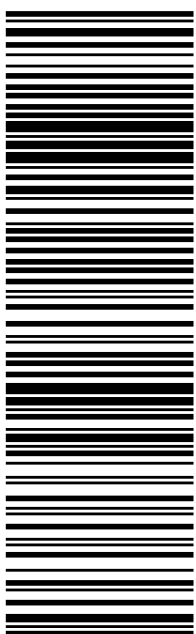
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FROM

SBA COMMUNICATIONS CORPORATION

Rick Woods

134 Flanders Rd

Suite 125

WESTBOROUGH, MA US 01581

508-614-0389

TO

Deborah G. Jones

Town of Groton

AICP, Asst. Director

45 Firt Hill Rd

GROTON, CT US 06340

508-251-0720

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Travel History

Shipment Facts

Travel History

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RICK WOODS
SBA COMMUNICATIONS CORPORATION
134 FLANDERS RD
SUITE 125
WESTBOROUGH, MA 01581
UNITED STATES US

SHIP DATE: 29OCT21
ACTWGT: 1.00 LB
CAD: 105843304/NET4400
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TO

JFM ENTERPRISES
31A ATLANTA CT

GROTON CT 06340

(508) 251-0720 X 3807 REF: 105692009-6089
INV# PO: DEPT:

56DJ3/14BA/FE4A

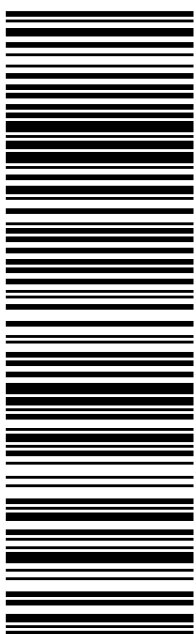


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FROM

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Rick Woods

134 Flanders Rd

Suite 125

WESTBOROUGH, MA US 01581

508-614-0389

TO

JFM Enterprises

31A Atlanta CT

GROTON, CT US 06340

508-251-0720

[MANAGE DELIVERY](#)

Travel History

Shipment Facts

Travel History

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SHIPPER REFERENCE 10-56-92009-6089	PACKAGING FedEx Envelope	SPECIAL HANDLING SECTION Deliver Weekday
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- All (30)
- Inbound (2)
- Outbound (28)
- Watch list (0)

EXHIBIT 3

Property Card

Commercial Property Card

Print Date: 10/13/2021

Card 1 of 1

Account 178010470143	Location 1294 PLEASANT VALLEY RD NORTH	Zoning RU-20	Deed Book/Page 774/624	Acres 3.66
District POQUONNOCK BRIDGE	Use Code SMALL RETAIL AND SERVICE STORES			

Current Owner

JFM ENTERPRISES LLC
C/O JENNIFER MACIEROWSKI
920 PLEASANT VALLEY RD N
GROTON CT 06340

Property Picture



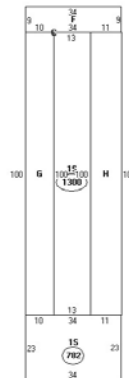
Building Information

Building No:	1
Year Built:	1975
No of Units:	1
Structure Type:	RETAIL - SINGLE OCCUPANCY
Building Total Area:	2388 sqft.
Grade:	D+
Identical Units:	1

Valuation

Land:	\$197,900
Building:	\$75,100
Total:	\$273,000
Total Assessed Value:	\$191,100

Building Sketch



Describe
A:003 762 sqft
B:045 1300 sqft
C:045 206 sqft
D:15 1300 sqft
E:15 762 sqft
F:15 206 sqft
G:CPG 1000 sqft
H:CPG 1100 sqft

Recent Sales

Book/Page	Date	Price
651/124	10/1/1997	\$123,380
721/770	10/23/2000	\$140,000
774/624	6/20/2002	\$150,000

Sketch Legend

----	Main Living Area	LSMA	Masonry	GRHS	Attached Greenhouse
1FR	Frame	OMP	Open Masonry Porch	CAT	Cathedral Ceiling
OFF	Open Frame Porch	EMP	Enclosed Msry Porch	SOP	Screen Open Frame Prch
EFP	Enclosed Frame Porch	MUB	Masonry Utility	SMP	Screen Open Msrny Prch
FUB	Frame Utility Building	MB	Masonry Bay	CPAT	Concrete Patio
FB	Frame Bay	MOH	Masonry Overhang	B	Basement
FG	Frame Garage	.SMA	1/2 Story Masonry		
FOH	Frame Overhang	MP	Masonry Patio		
.SFR	1/2 Story Frame	WD	Wood Deck		
A(U)	Attic (Unfinished)	CPY	Canopy		
A(F)	Attic (Finished)				

Exterior/Interior Information

Levels	Use Type	Ext. Walls	Const. Type	Heating	A/C	Condition
01 - 01	MULTI-USE SALES	CONCRETE BLOCK	WOOD JOIST	HOT AIR	NONE	NORMAL
01 - 01	WAREHOUSE	CONCRETE BLOCK	WOOD JOIST	HOT AIR	NONE	NORMAL
01 - 01	WAREHOUSE	FRAME	WOOD JOIST	NONE	NONE	NORMAL

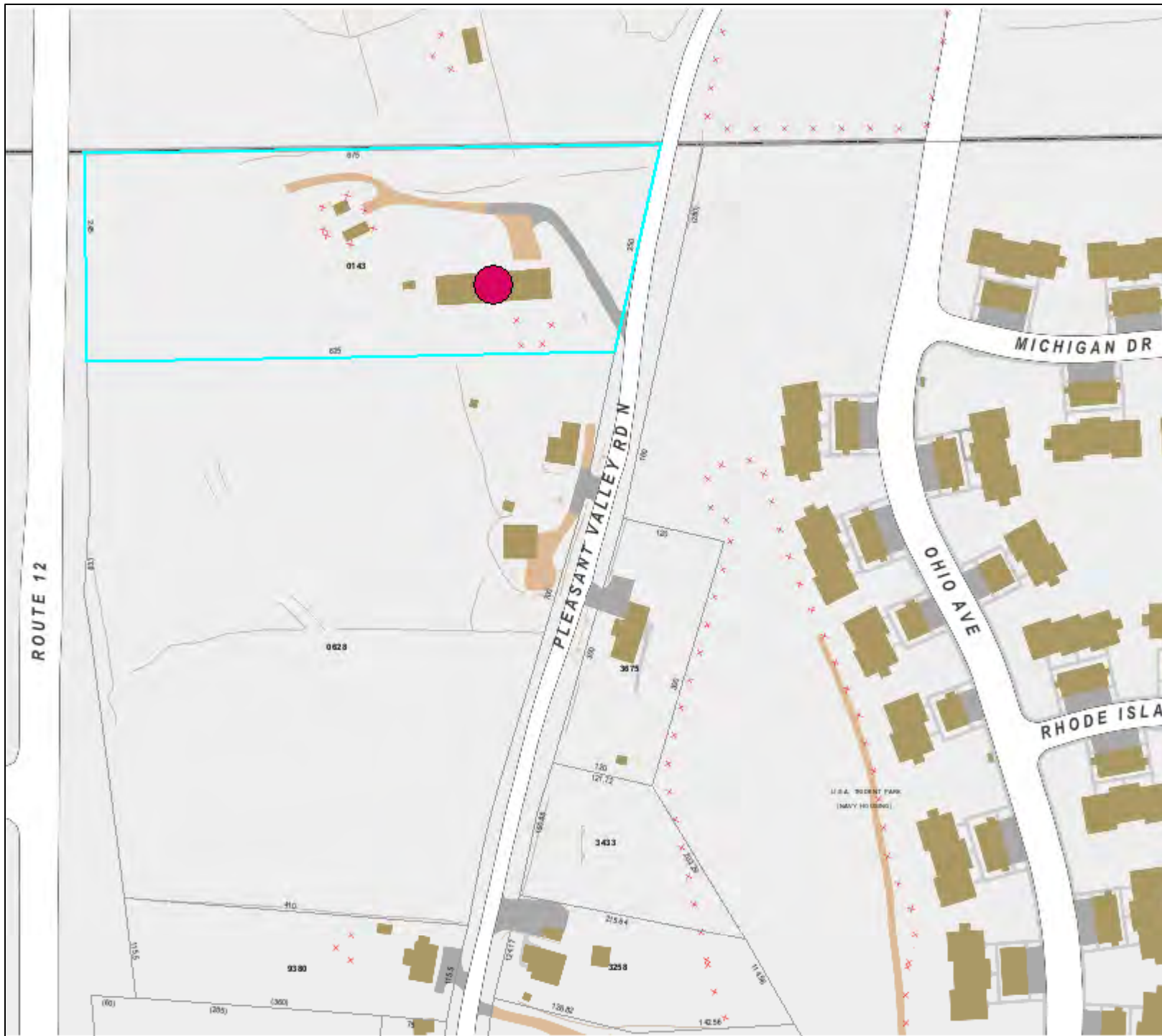
EXHIBIT 4

Property Map

Town of Groton



GIS Map



Disclaimer:
The planimetric and topographic information depicted on this map was compiled by the Seaborn Map Company based on an aerial flight performed in April 2009. The parcel and property line information depicted on this map has been compiled from recorded deeds, maps, assessor records, and other sources of information in the Town of Groton. The intent of this map is to depict a graphical representation of fee at property information; it is not to be used as a legal representation of the Town of Groton and is subject to change as a more accurate survey may disclose. The Town of Groton and the mapping companies assume no legal responsibility for the information contained in this data.
THIS MAP IS NOT TO BE USED FOR THE TRANSFER OF PROPERTY.

Horizontal Datum:
Geometric State Plane Coordinates, North American Datum of 1983 (NAD83 Feet)

Vertical Datum:
North American Vertical Datum of 1988 (NAVD88)



1 inch = 163 feet

Date: October 13, 2021

Google Maps 1294 Pleasant Valley Rd N



Imagery ©2021 Maxar Technologies, Map data ©2021 20 ft

EXHIBIT 5

Zoning Documents

SITE NAME: NEW LONDON SITE ID: CT13075-A

Transaction: Optasite

ZONING/PERMITTING COMPLETION FORM

Address: 1294 Pleasant Valley Rd., Groton, CT 6340

Jurisdiction: Conn. State Council, Town of Groton Zoning District: RU-20

Zoning Approval Type: Certificate Case #: 330

Approval Date: 6/7/2007 Approved Height: _____ Tower Build Date: _____

If tower is destroyed or drop/swap required, tower can likely be rebuilt? YES NO

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"/>

JURISDICTION POC/DEPT.

Planning/Zoning: Matthew Davis

Phone: 860-446-5975 Fax: _____

Bldg./Code Enforcement: _____

Phone: _____ Fax: _____

Submitted by: Zoning Compliance Date: _____

TO BE COMPLETED BY CORPORATE

	Yes	No	N/A	
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 <u>8/20/2007</u>
Certificate of Occupancy or Compliance (CO) attached (required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>4/10/2008</u>
Zoning Manager Approval: <u>Diane E. Borchardt</u> Diane E. Borchardt, AICP				Date <u>7/25/2008</u>



Daniel F. Curran
Chairman

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

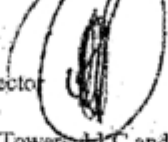
Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting@connecticut.gov

Internet: ct.gov/sic

June 12, 2007

TO: Parties and Intervenor

FROM: S. Derek Phelps, Executive Director 

RE: **DOCKET NO. 330** – Optasite Towers, LLC and Omnipoint Communications, Inc. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility at 1294 Pleasant Valley Road North, Groton, Connecticut.

By its Decision and Order dated June 11, 2007, the Connecticut Siting Council granted a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility at 1294 Pleasant Valley Road North, Groton, Connecticut.

Enclosed are the Council's Findings of Fact, Opinion, and Decision and Order.

SDP/CDM/laf

Enclosures (3)

c: State Documents Librarian



CONNECTICUT SITING COUNCIL

State of Connecticut | Department of Transportation



Daniel F. Curcio
Chairman

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2956

E-Mail: siting.council@ct.gov

Internet: ct.gov/csc

June 12, 2007

Julie Kohler, Esq.
Carrie I. Larson, Esq.
Deborah S. Erickson, Esq.
Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT 06604

RE: DOCKET NO. 330 -- Optasite Towers, LLC and Omnipoint Communications, Inc.
application for a Certificate of Environmental Compatibility and Public Need for the
construction, maintenance and operation of a telecommunications facility at 1294
Pleasant Valley Road North, Groton, Connecticut.

Dear Attorney Kohler, Attorney Larson, and Attorney Erickson:

By its Decision and Order dated June 7, 2007, the Connecticut Siting Council (Council) granted
a Certificate of Environmental Compatibility and Public Need (Certificate) for the construction,
maintenance and operation of a telecommunications facility at 1294 Pleasant Valley Road North,
Groton, Connecticut.

Enclosed are the Council's Certificate, Findings of Fact, Opinion, and Decision and Order.

Very truly yours,

S. Derek Phelps
Executive Director

SDP/CDM/laf

Enclosures (4)



Daniel F. Caruso
Chairman

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting_council@ct.gov
Internet: ct.gov/csc

CERTIFICATE
OF
ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED
DOCKET NO. 330

Pursuant to General Statutes § 16-50k, as amended, the Connecticut Siting Council hereby issues a Certificate of Environmental Compatibility and Public Need to Optasite Towers, LLC for the construction, maintenance and operation of a telecommunications facility at 1294 Pleasant Valley Road North, Groton, Connecticut. This Certificate is issued in accordance with and subject to the terms and conditions set forth in the Decision and Order of the Council, on June 7, 2007

By order of the Council,

Daniel F. Caruso, Chairman

June 7, 2007



TOWN OF GROTON

PLANNING AND DEVELOPMENT SERVICES

Planning Department

134 Groton Long Point Road
Groton, Connecticut 06340-4873
Telephone (860) 446-5970
Fax (860) 446-5978

April 18, 2007

S. Derek Phelps, Executive Director
State of Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

SUBJECT: Optasite Towers and Omnipoint Communications
1294 Pleasant Valley Road North, Groton, CT
Docket No. 330

Dear Mr. Phelps:

Please consider this a response of the Planning Department of the Town of Groton in the matter of the New Optasite Towers and Omnipoint Communications proposed communications facility at 1294 Pleasant Valley Road North in Groton. The Office of Planning and Development received your letter on March 21, 2007. This office reserves all other rights with regard to regulatory review of the project in accordance with the law. Please enter this information into the hearing record for April 18, 2007.

The Town of Groton currently has development standards in effect for review of Telecommunications Towers, Antennae and Facilities. These standards require that a comprehensive package of components be addressed by an applicant to assure that a proposal's siting, construction, and maintenance are accomplished in the public interest. In this regard, the Town's planning staff has identified the following items that still should be addressed in the proposal to the Connecticut Siting Council. These items include:

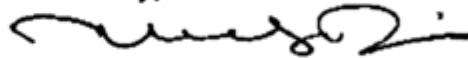
1. The plans and report should state "There shall be no advertising or signs, other than warning signs, permitted on any tower."
2. The plans and report should state that "The tower shall be removed from the site within 12 months of cessation of the use. In the event an unused tower is not removed within this time period, the tower and associated facilities may be removed by the Town and the cost of removal assessed against the property."
3. The plans should show that adequate fire access to any proposed tower. This usually includes a paved road that meets the Fire Department's width, clearance, and turn-around requirements and is able to hold a 60,000-lb. fire apparatus. Planning Staff suggests that the applicant work closely with the local Fire Marshal to obtain the appropriate access design.

4. The report needs to confirm that the tower design meets the updated State Building Code requirements for withstanding current pressure requirements. Please address.

These comments should provide you with a comprehensive record of the physical planning and design concerns associated with the project.

The Planning Department appreciates the efforts that have been made to allow for co-location of additional carriers as referred to in Exhibit A, page 15. The Town will continue to monitor the project to assure that the Town's concerns are adequately addressed. Also, feel free to call Susan C. Cullen, Planner I at this office if you have any questions.

Sincerely,



Matthew J. Davis
Manager, Planning & Development
Services

SCC

cc: Julie Kohler, Esq.

HOLLIS M. KEDDING
203 464-3623



PAID
\$130

Town of Groton BUILDING/ZONING PERMIT APPLICATION

Please Print

Permit No. <u>BP07-369</u>	(office use only)
Fees: Bldg. <u>1,420.</u> - Zon. _____ C.O. _____ State <u>22.56</u> Total _____	

- Estimated Cost: \$141,000
- Address of Building: 1294 Pleasant Valley Rd North, Groton, CT 06340
- Zone: RU-20 PIN: 1780104700143
- Owner: JFM Enterprises LLC Ph. #: 860-536-4243
- Address: 1276 Pleasant Valley Rd North, Groton, CT 06340
- Contractor: Anthony's Building Co, Inc Ph. #: 401-567-0600
- Address: 953 Putnam Pike, Chepachet, RI 02814
- Nature of Proposed Work and Use: Construction + operation of telecommunication tower facility and installation of omnipoint communications, Inc antennas + equipment.
- Plans: attached Type of Construction: _____ Size: _____ **USB: 2**
- No. of Stories: NA No. of Rooms: NA No. of Baths: NA
- Fireplace(s): NA Garage: NA Bay(s) NA No. of Units: NA

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: _____ HDC #: _____ ZBA #: _____
 Site Plan Approval #: _____ Special Zoning Permit #: _____
 Wetlands: _____ Coastal Area Management: _____
 Site Suitability #: _____ Sewer #: _____ A2 Survey: _____
 _____ **Zoning Official** _____ **8-15-07** **Date**

CERTIFICATION: I hereby certify that: I am the owner of record of the named property or that the proposed work is authorized by the owner of record and/or I have been authorized to make this application as an authorized agent, and we agree to conform to all applicable laws, codes, regulations and ordinances. All information contained within is true and accurate to the best of my knowledge and belief.

Jeff Gold 401 567-0600 900617
 Print Name in Ink Phone # Lic. #
Jeff Gold 8/13/07
 Signature (in INK) of Owner/Authorized Agent Date

[Signature] 8/2/07
 Building Official Completed Application Received Date

This permit shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance. Refunds will be subject to the refund policy.

New London

BUILDING INSPECTION DEPARTMENT
Groton, Connecticut

Nº 7009

CERTIFICATE OF USE OR OCCUPANCY
CERTIFICATE OF ZONING COMPLIANCE

Zone RU-20

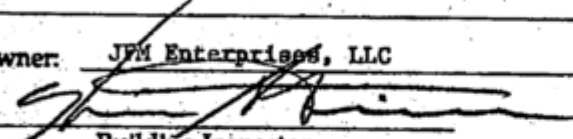
Dated April 10, 2008

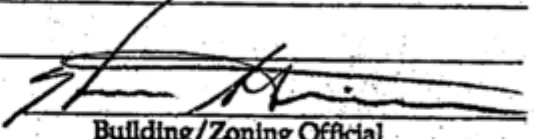
This is to certify that building at 1294 Pleasant Valley Road North

as commercial under Permit No. 07-369 conforms substantially to the requirements of the State of Connecticut Building Code and the Zoning Regulations of the Town of Groton and is hereby approved for use or occupancy as indicated below.

Approved for use or occupancy telecommunications tower facility

Owner: JFM Enterprises, LLC


Building Inspector
Kevin A. Quinn


Building/Zoning Official
Kevin A. Quinn

Any change or extension of the use herein approved requires a new certificate for use or occupancy and a new certificate of zoning compliance.

If this certificate is lost or destroyed, a duplicate should be obtained immediately from the Building Inspection Department.

EXHIBIT 6

Construction Drawings

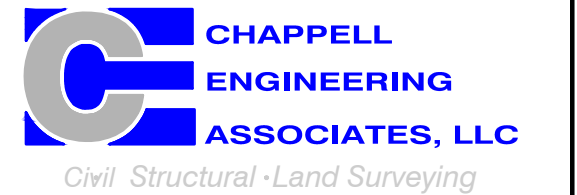
CT311/OPTA PAWS PLACE

T-MOBILE NORTHEAST LLC

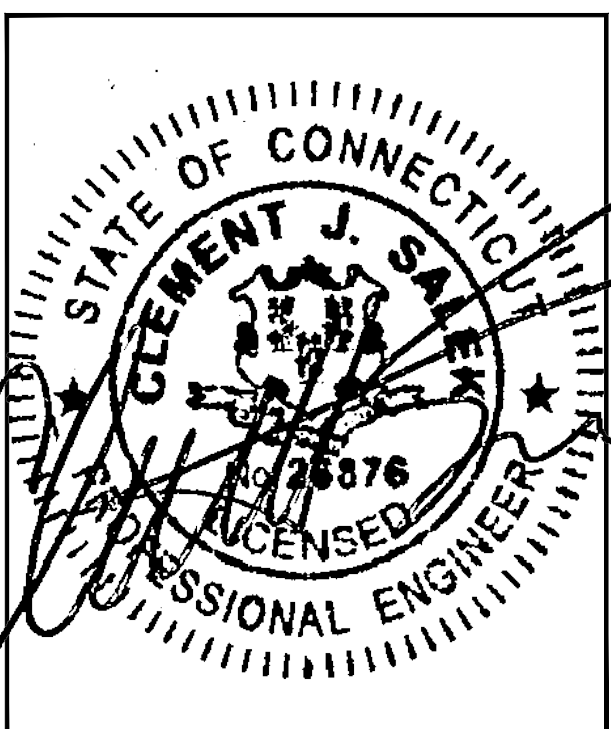
15 COMMERCE WAY, SUITE B
NORTON, MA 02766
(508) 286-2700



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



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
0	10/14/21	ISSUED FOR CONSTRUCTION CMC	

SITE NUMBER:
CT11311G

SITE ADDRESS:
1294 PLEASANT VALLEY ROAD NORTH
GROTON, CT 06340

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

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

1294 PLEASANT VALLEY ROAD NORTH
GROTON, CT 06340
NEW LONDON COUNTY

SITE NO.: CT11311G

SITE TYPE: 149'± MONOPOLE

PROJECT TYPE: NATIONAL HARDENING PROJECT

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.

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

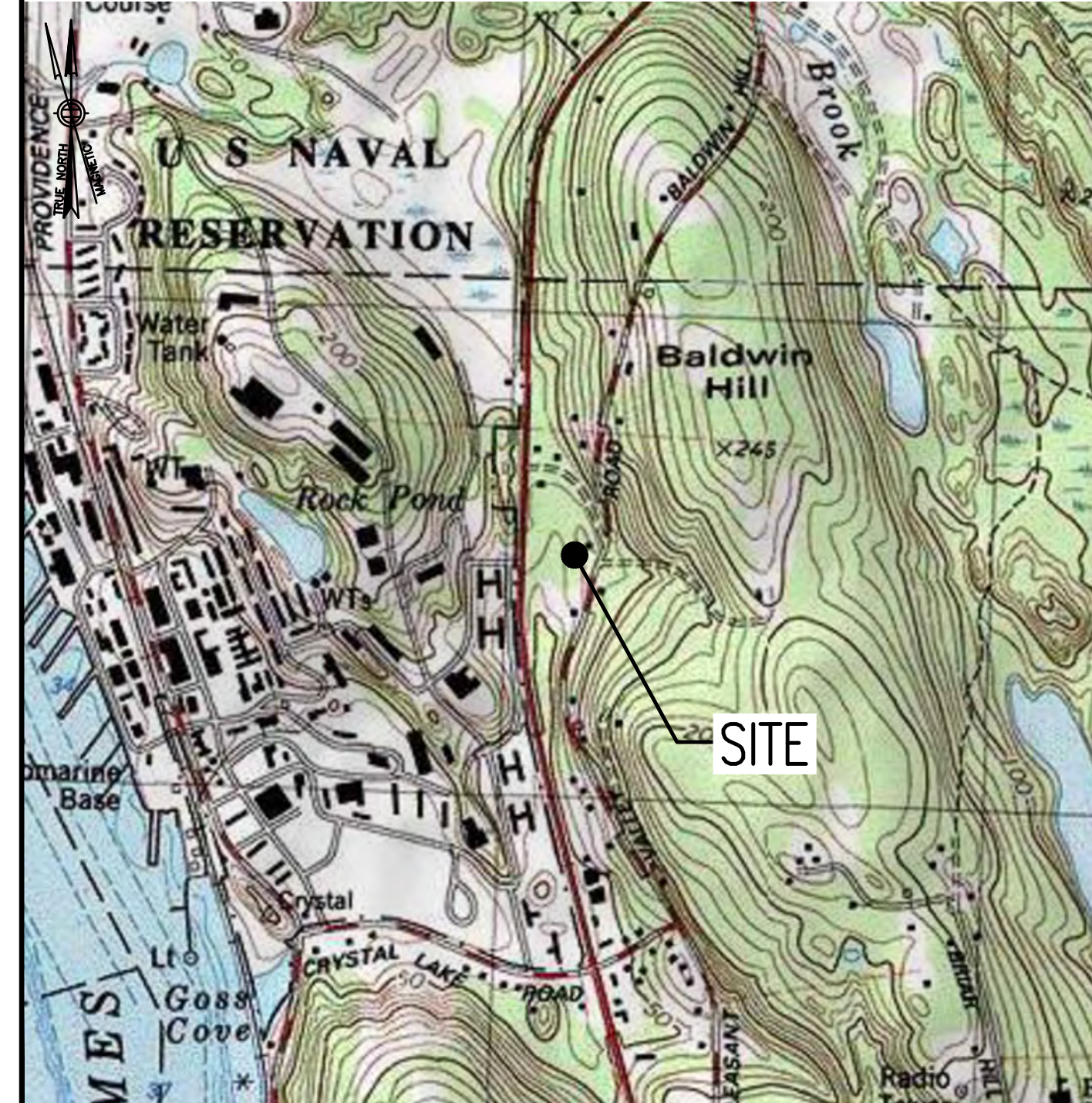
GENERAL NOTES

- 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 OMBUDSMAN 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



DIRECTIONS

MERGE ONTO I-495 NORTH TOWARD MANSFIELD/MARLBORO. TAKE EXIT 33A FOR I-95 NORTH TOWARD BOSTON. TAKE EXIT 13B FOR MA-140 NORTH TOWARD FOXBORO. USE RIGHT LANE FOR I-95 SOUTH TOWARD PROVIDENCE. KEEP RIGHT AT FORK TO STAY ON I-95 SOUTH. TAKE EXIT 86 FOR CT-12 TOWARD US SUB BASE/GALES FERRY. CONTINUE ONTO KINGS HIGHWAY. TURN RIGHT ONTO CT-12 NORTH. TURN RIGHT ONTO OHIO AVENUE. TURN LEFT ONTO PLEASANT VALLEY ROAD NORTH. 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

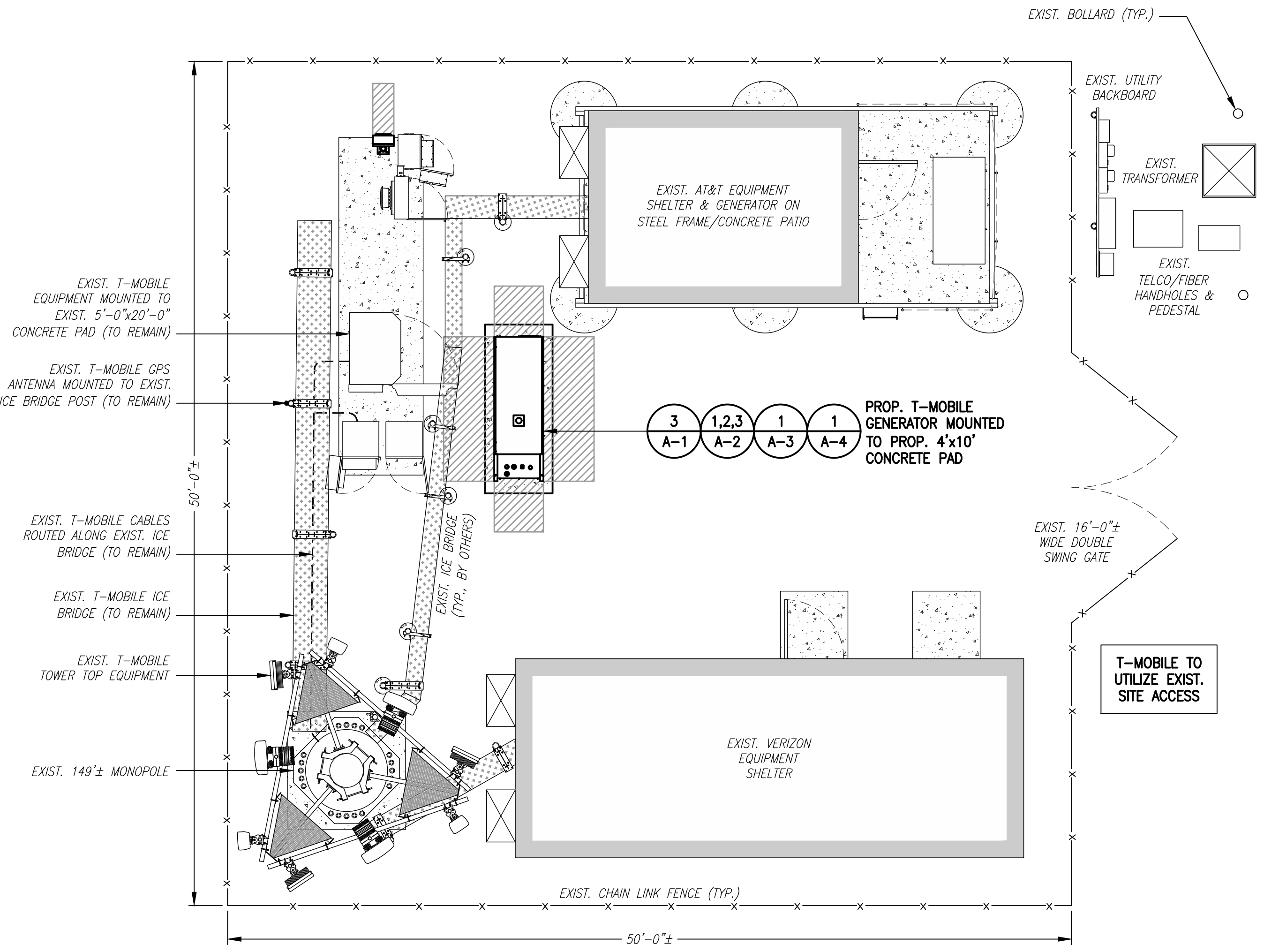
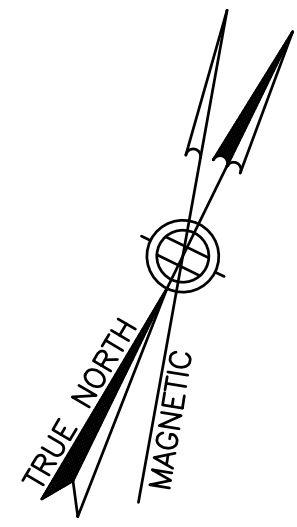
CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

PROJECT SUMMARY

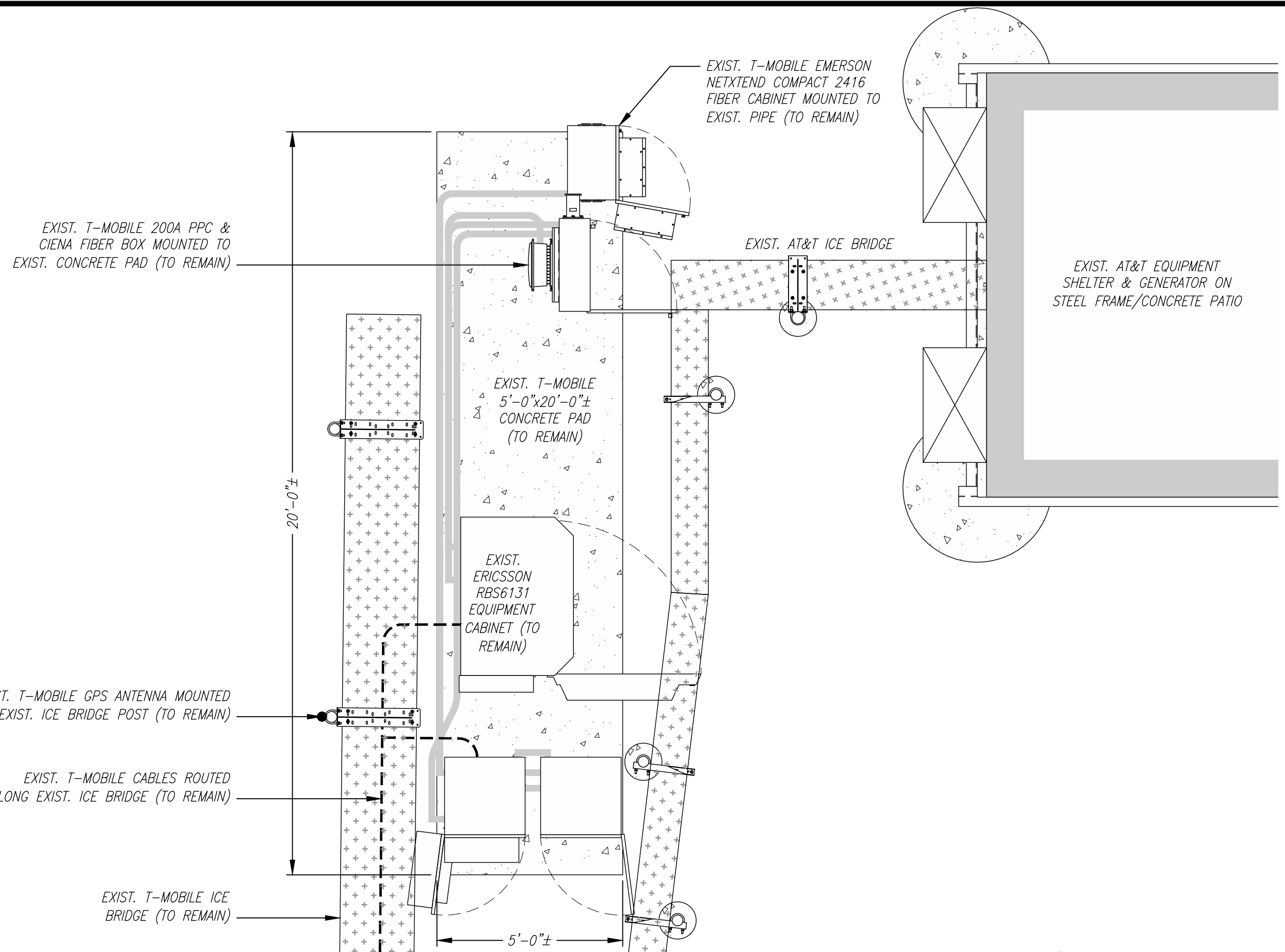
SITE NUMBER: CT11311G
 SITE NAME: CT311/OPTA PAWS PLACE
 SBA SITE NUMBER: CT13075-A
 SBA SITE NAME: NEW LONDON
 SITE ADDRESS: 1294 PLEASANT VALLEY ROAD NORTH GROTON, CT 06340
 PROPERTY OWNER: JFM ENTERPRISES LLC
 C/O JENNIFER MACIEROWSKI
 920 PLEASANT VALLEY ROAD NORTH GROTON, CT 06340
 TOWER OWNER: SBA INFRASTRUCTURE, LLC
 8501 CONGRESS AVENUE
 BOCA RATON, FL 33487
 PHONE: 561-226-9523
 COUNTY: NEW LONDON
 ZONING DISTRICT: RU-20 (RURAL RESIDENTIAL)
 STRUCTURE TYPE: MONOPOLE
 STRUCTURE HEIGHT: 149'±
 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: 41.399913° N41°23'59.69"
 LONGITUDE: -72.079259° W72°04'45.33"

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).

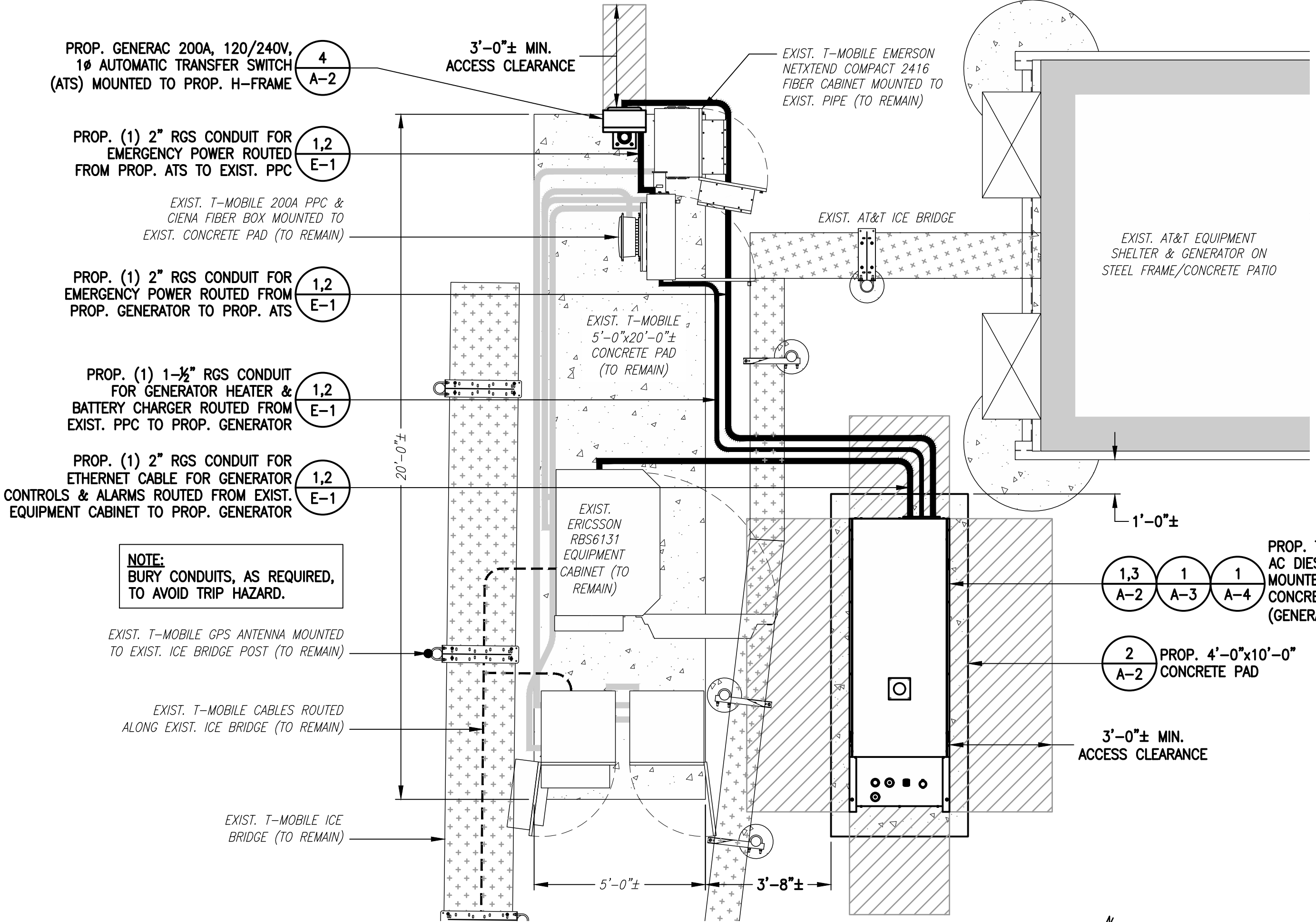
SPECIAL CONSTRUCTION WORK NOTE (HAND DUG UTILITY TRENCH EXCAVATION REQUIRED):
 EXISTING UNDERGROUND UTILITY LOCATIONS ARE UNKNOWN. GENERAL CONTRACTOR SHALL HAND-EXCAVATE TO REQUIRED SUB-GRADE DEPTH SUFFICIENT TEST HOLES OR AS DIRECTED/REQUIRED BY SBA REGIONAL SITE MANAGER SHALL HAND-EXCAVATE ALL PROPOSED 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: 3/8" = 1'-0"
 0 2'-8" 5'-4" 8'-0"



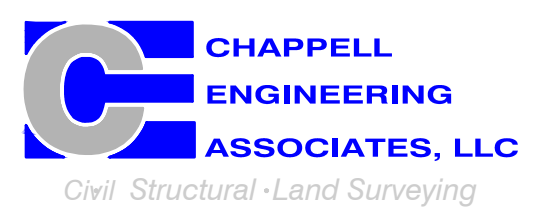
PROPOSED EQUIPMENT PLAN 3
 SCALE: 3/8" = 1'-0"
 0 2'-8" 5'-4" 8'-0"

T-MOBILE NORTHEAST LLC

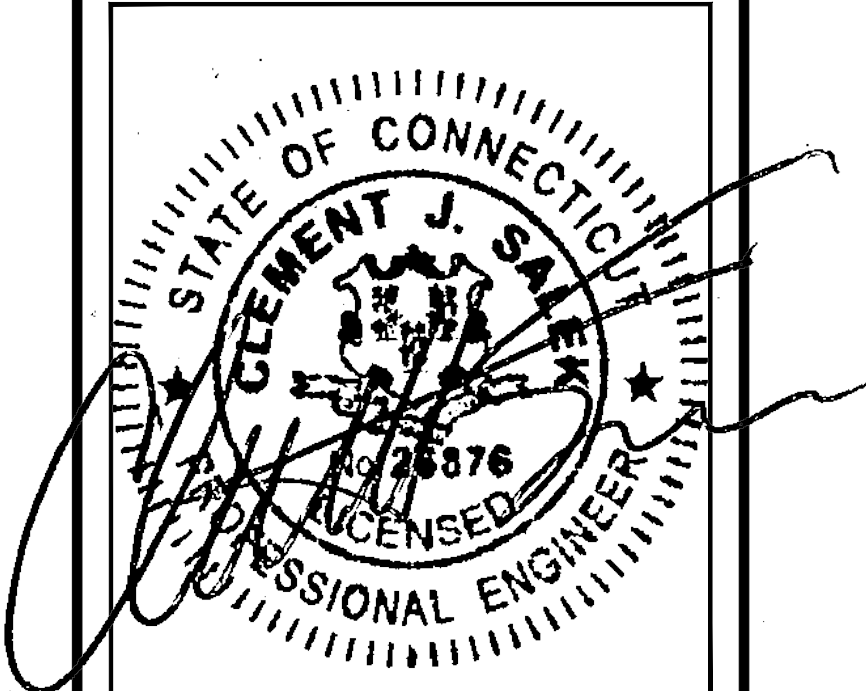
15 COMMERCE WAY, SUITE B
 NORTON, MA 02766
 (508) 286-2700



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



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
0	10/14/21	ISSUED FOR CONSTRUCTION CMC	

SITE NUMBER:
CT11311G

SITE ADDRESS:
 1294 PLEASANT VALLEY ROAD NORTH
 GROTON, CT 06340

SHEET TITLE
COMPOUND & EQUIPMENT PLAN

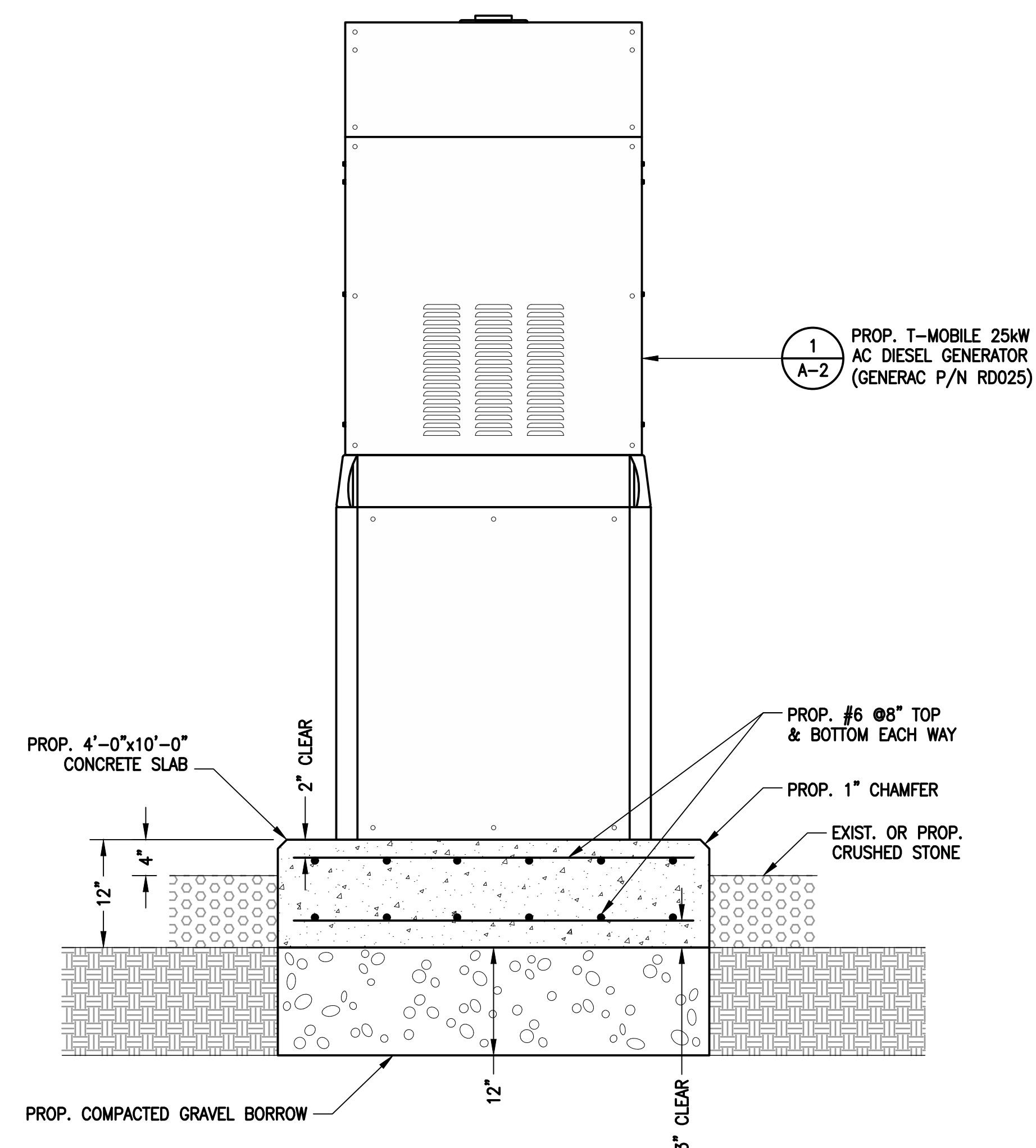
SHEET NUMBER
A-1

NOTE:
GENERATOR DIESEL TANK TO
BE FILLED BY CONTRACTOR

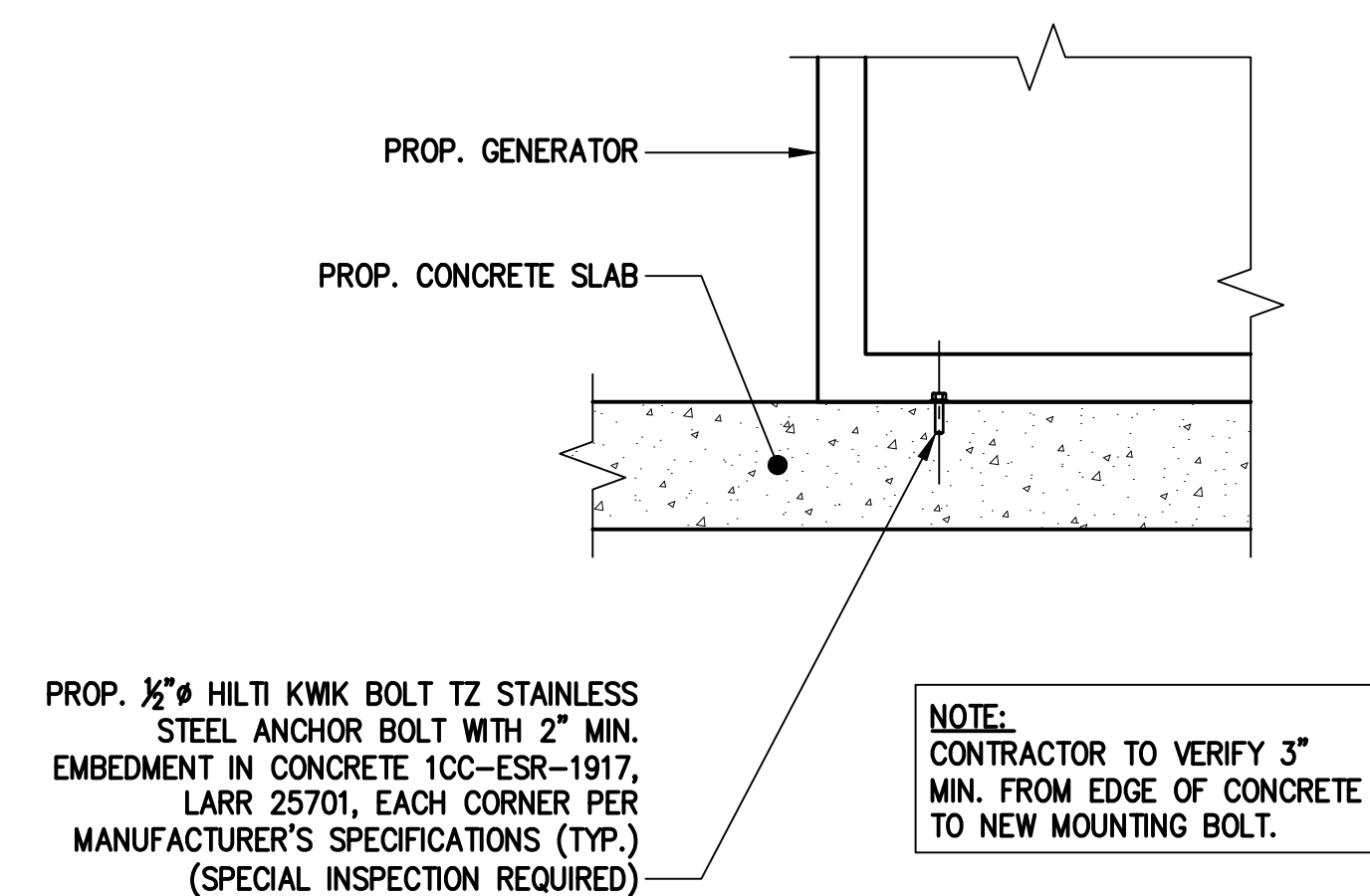


GENERAC RD025 25kW AC DIESEL GENERATOR
 DIMENSIONS: 103.4"L x 35.0"W x 91.7"H
 WEIGHT: 2,946 lbs
 QUANTITY: TOTAL OF 1

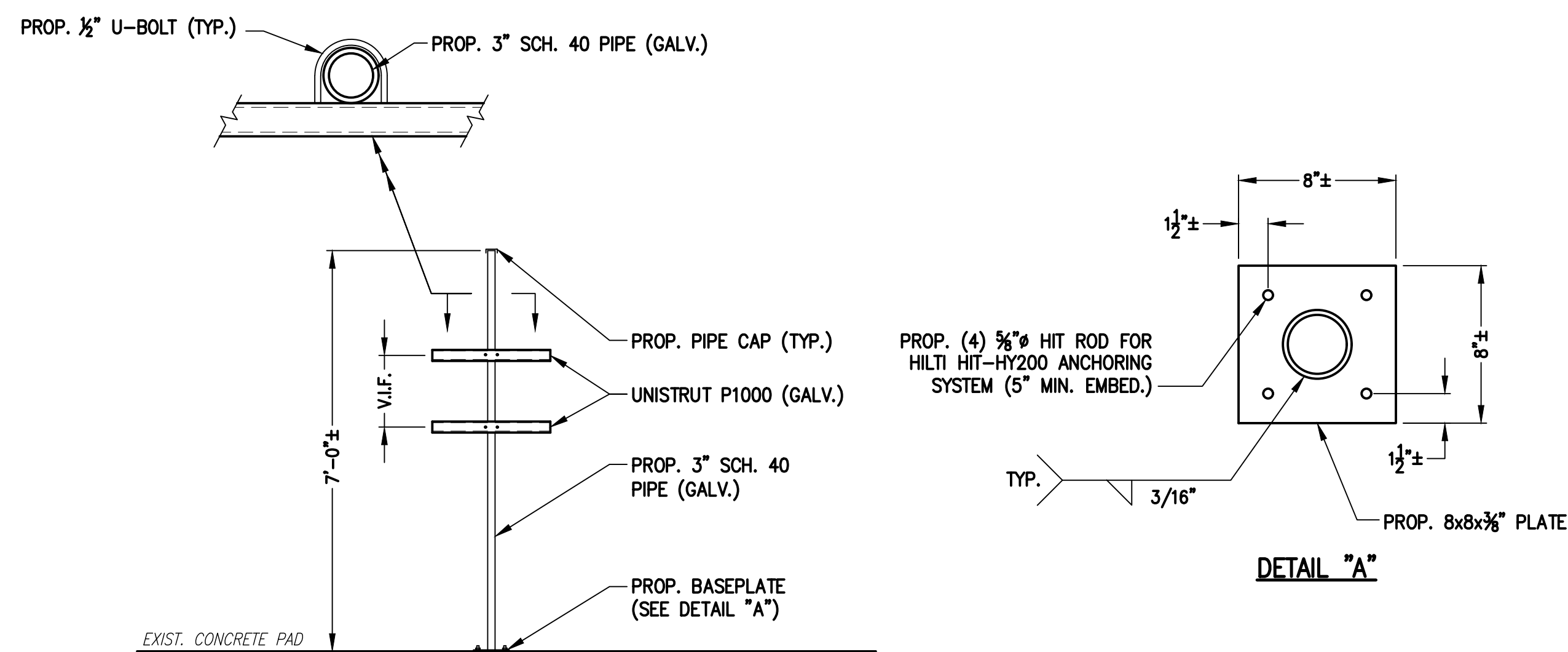
GENERATOR DETAIL (1/A-2)
 SCALE: N.T.S.



GENERATOR PAD DETAIL (2/A-2)
 SCALE: N.T.S.



GENERATOR MOUNTING DETAIL (3/A-2)
 SCALE: N.T.S.



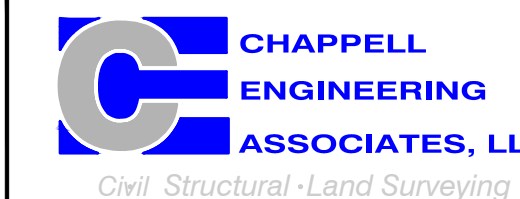
H-FRAME DETAIL (4/A-2)
 SCALE: N.T.S.

**T-MOBILE
NORTHEAST LLC**

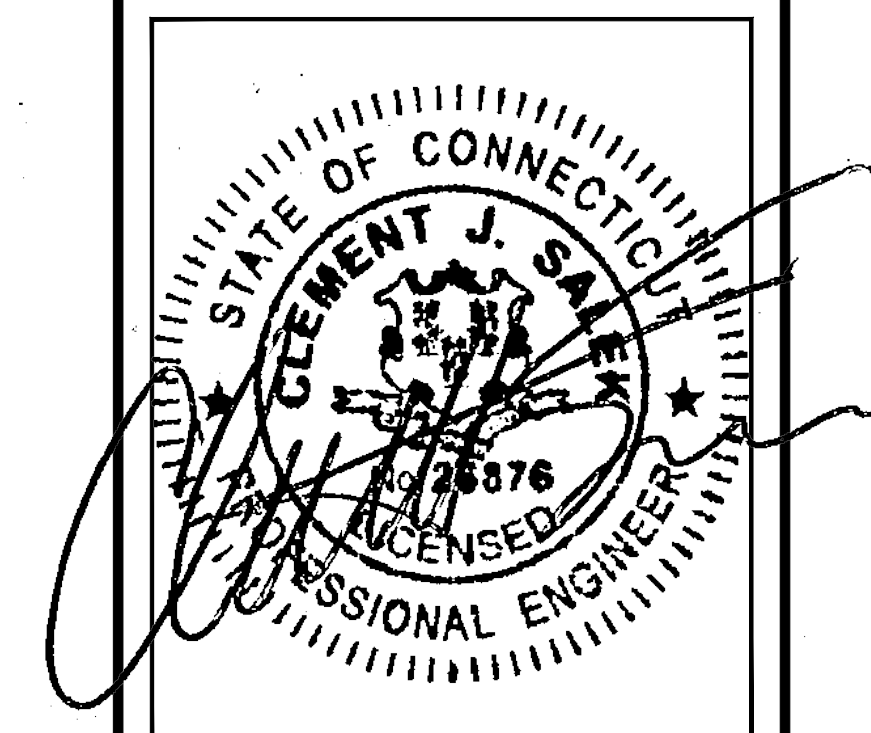
15 COMMERCE WAY, SUITE B
NORTON, MA 02766
(508) 286-2700



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



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
0	10/14/21	ISSUED FOR CONSTRUCTION CMC	

SITE NUMBER:
CT11311G

SITE ADDRESS:
1294 PLEASANT VALLEY ROAD NORTH
GROTON, CT 06340

SHEET TITLE

GENERATOR DETAILS

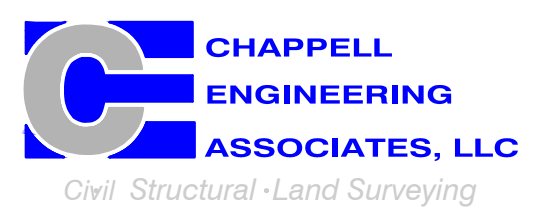
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A-2

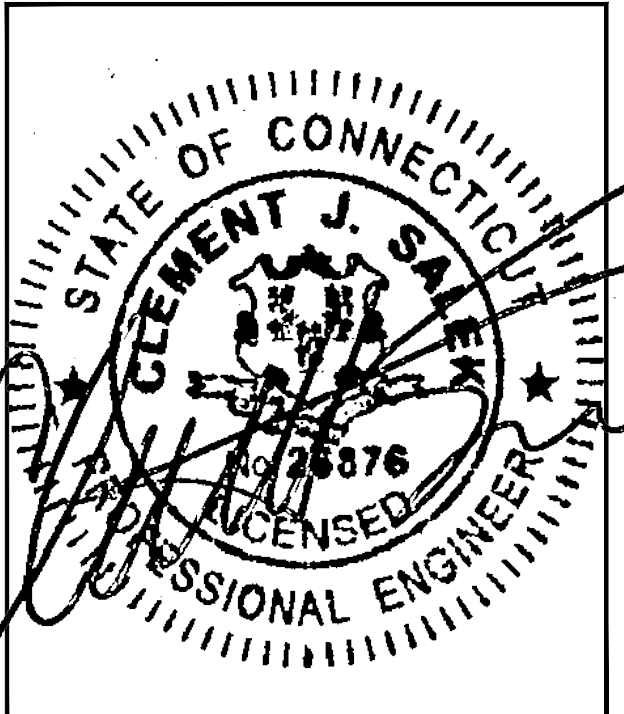
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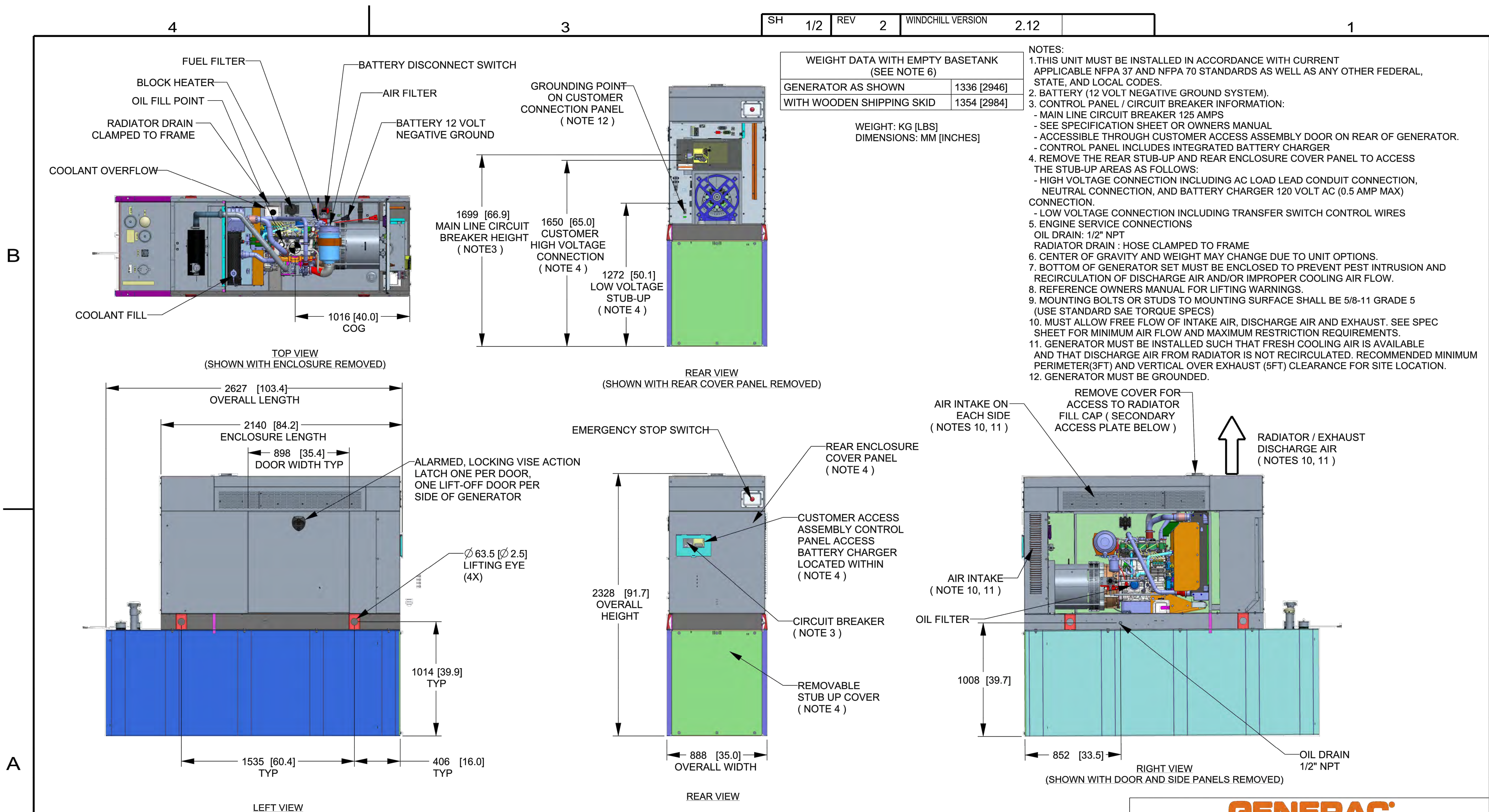
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REV.	DATE	DESCRIPTION	BY
0	10/14/21	ISSUED FOR CONSTRUCTION	CMC

SITE NUMBER:
CT11311G

SITE ADDRESS:
1294 PLEASANT VALLEY ROAD NORTH
GROTON, CT 06340

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

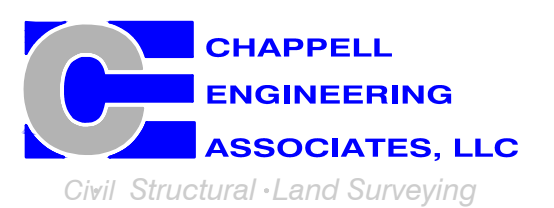
SCALE 0.031 WT-KG SEE ABOVE SHEET 1 of 2

T-MOBILE
NORTHEAST LLC

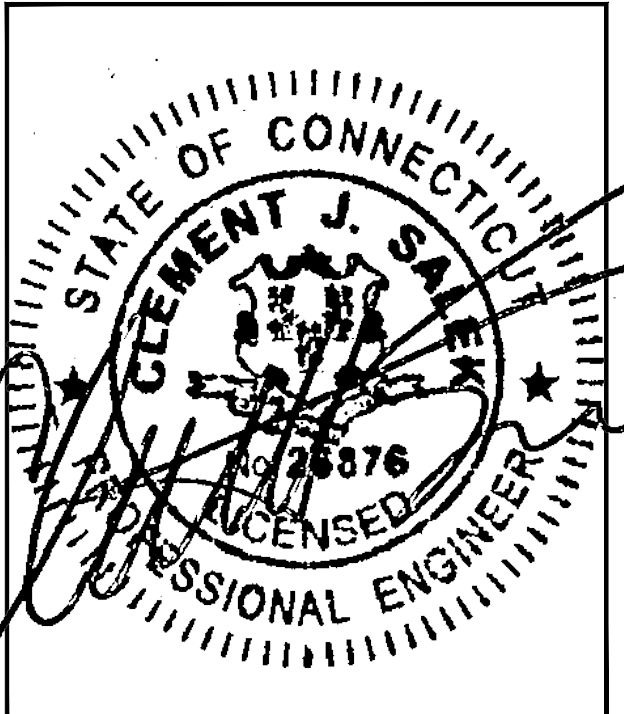
15 COMMERCE WAY, SUITE B
NORTON, MA 02766
(508) 286-2700



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134 FLANDERS ROAD, SUITE 125
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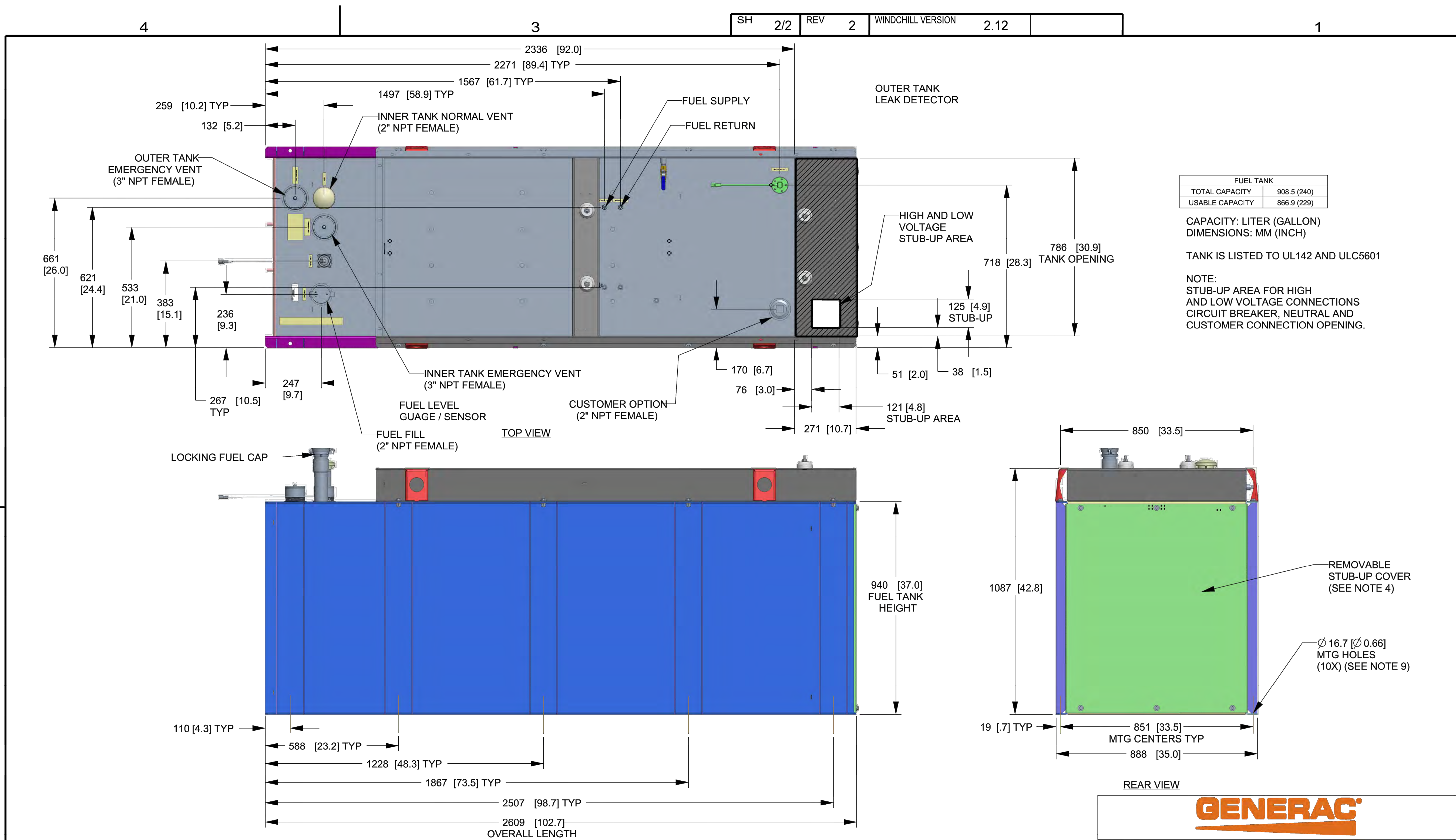
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REV.	DATE	DESCRIPTION	BY
0	10/14/21	ISSUED FOR CONSTRUCTION	CMC

SITE NUMBER:
CT11311G

SITE ADDRESS:
1294 PLEASANT VALLEY ROAD NORTH
GROTON, CT 06340

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 B	CAGE NO N/A	DWG NO 10000036728	REV 2
SCALE 0.063	WT-KG SEE ABOVE	SHEET 2 of 2	

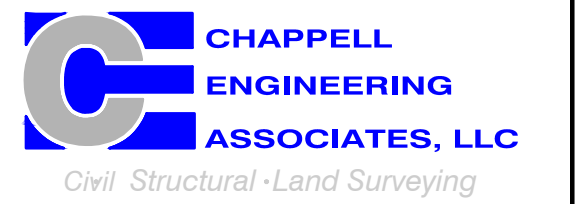
INSTALLATION DRAWING

T-MOBILE NORTHEAST LLC

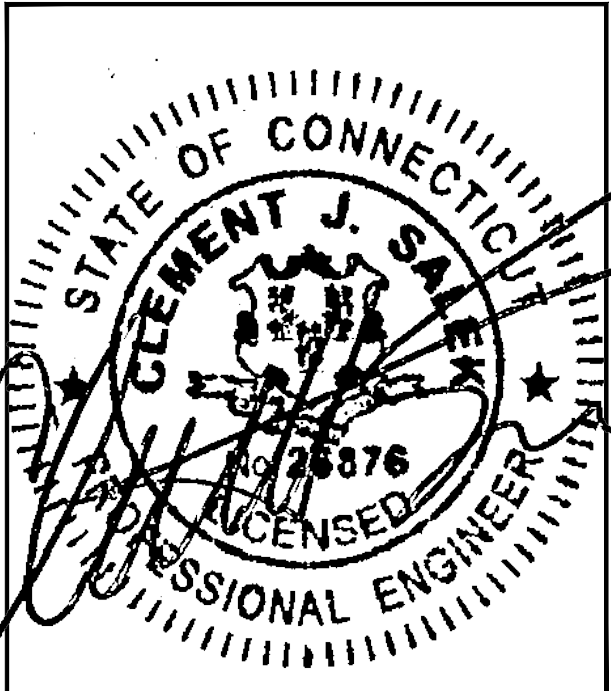
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SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
0	10/14/21	ISSUED FOR CONSTRUCTION	CMC

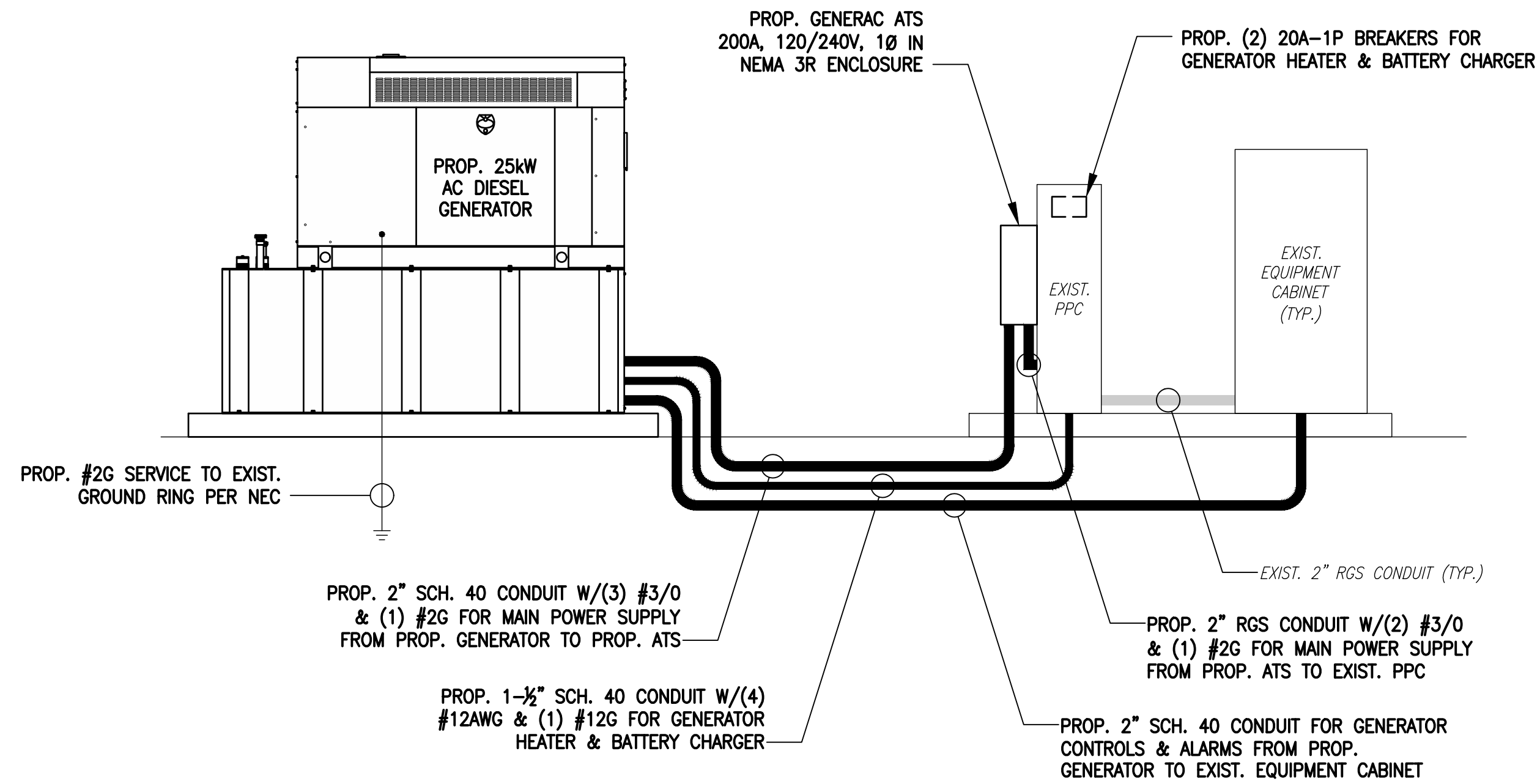
SITE NUMBER:
CT11311G

SITE ADDRESS:
1294 PLEASANT VALLEY ROAD NORTH
GROTON, CT 06340

SHEET TITLE
**ELECTRIC & GROUNDING
DETAILS**

SHEET NUMBER
E-1

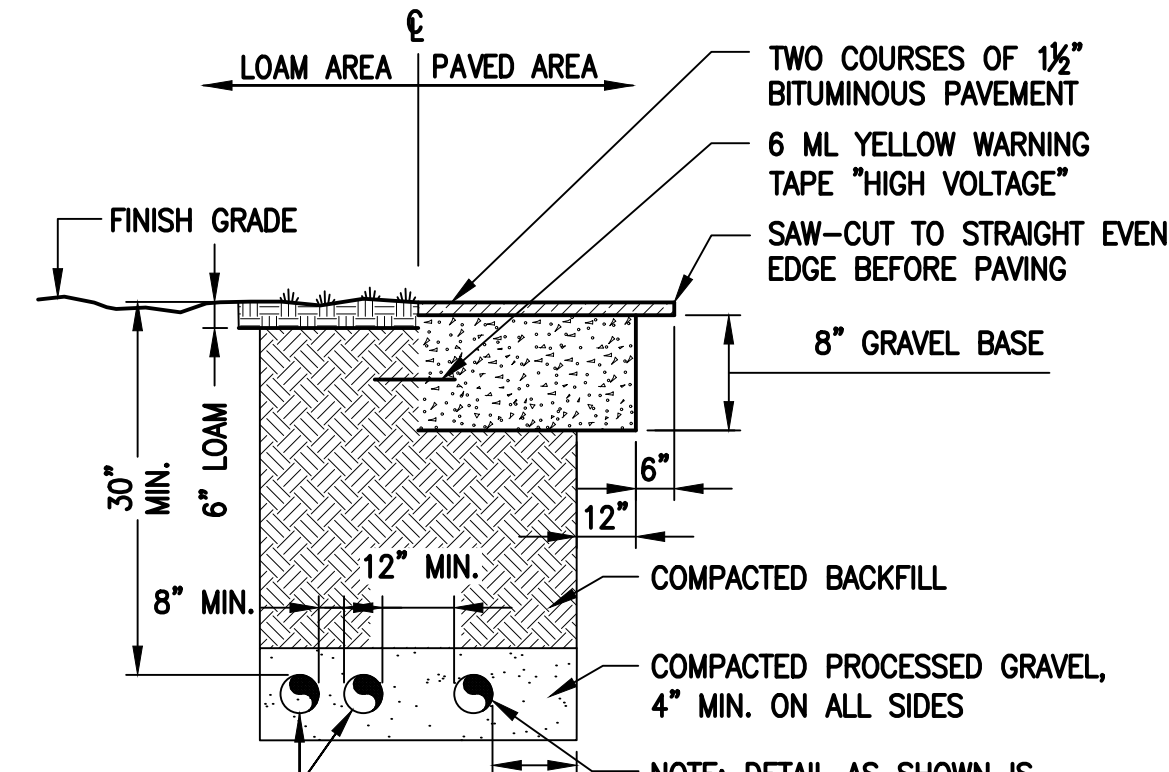
NOTE:
CUT BACK (E) MAIN POWER CONDUIT, AS
REQUIRED, & RECONNECT TO (P) AT'S.



ONE-LINE POWER DIAGRAM

SCALE: NOT TO SCALE

1
E-1

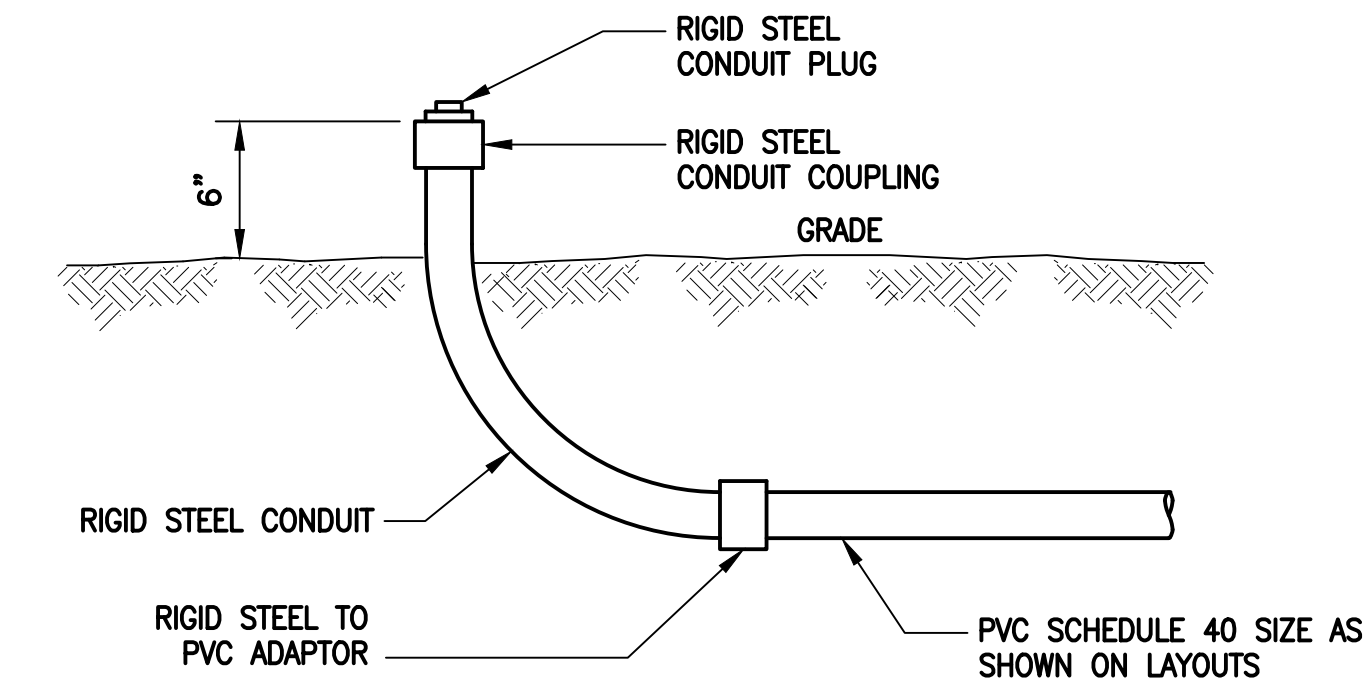


SCHEDULE 40 CONDUITS FOR NEW ELECTRICAL AND TELEPHONE SERVICES. SEE UTILITY AND SITE PLANS. PROVIDE APPROVED PULL BOXES AS REQUIRED, AND COORDINATE INSTALLATION W/ALL UTILITY COMPANIES FOR INTERFACING AT TERMINATION POINTS. PROVIDE FULL LENGTH PULL ROPES (TYP.).

BURIED CONDUIT DETAIL

SCALE: NOT TO SCALE

2
E-1



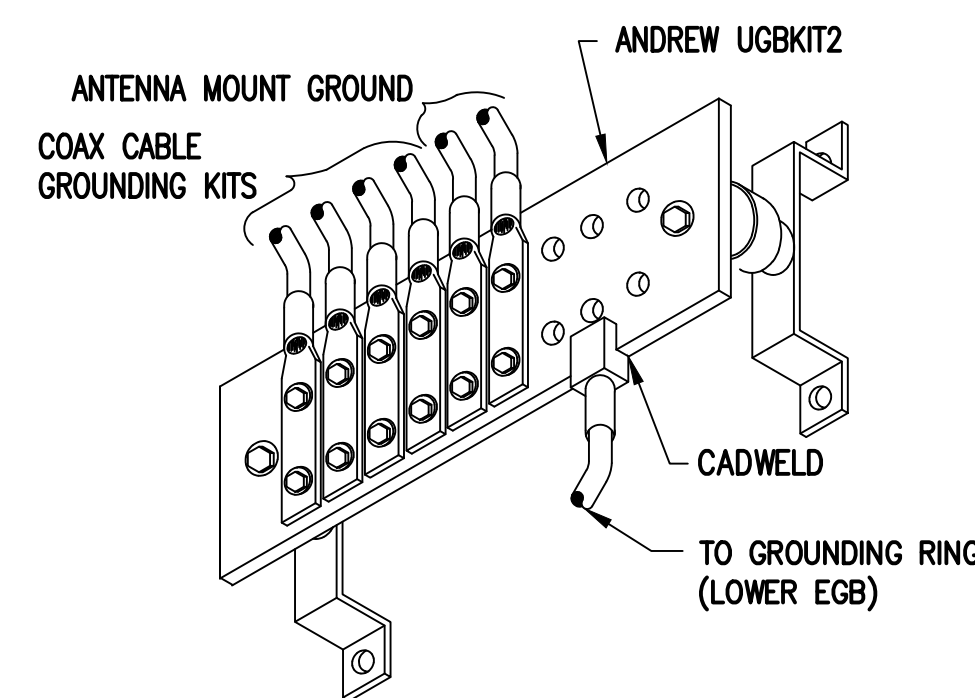
TYPICAL CONDUIT STUB-UP DETAIL

SCALE: NONE

3
E-1

ELECTRICAL AND GROUNDING NOTES

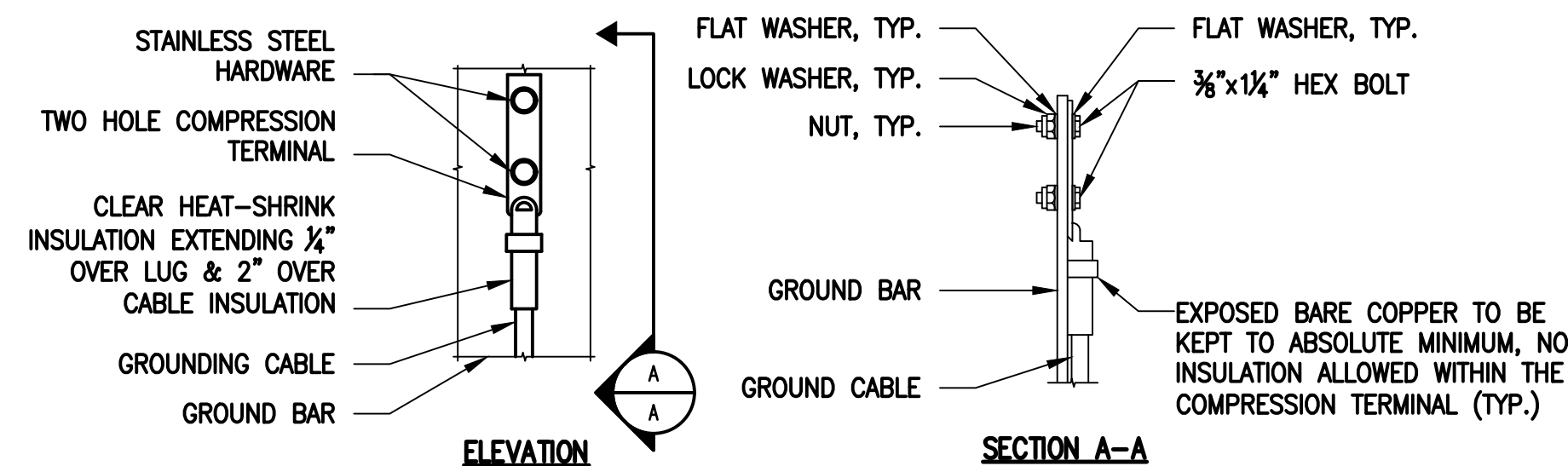
- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED 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 BURNDY 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.



GROUND BAR (EGB)

SCALE: NOT TO SCALE

4
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.

TYPICAL GROUND BAR CONNECTIONS DETAIL

SCALE: NOT TO SCALE

5
E-1

EXHIBIT 7

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 ³ (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 ³ /min (m ³ /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 ₂ O (kPa)	0.50 (0.12)

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power ft ³ /min (m ³ /min)	88 (2.5)

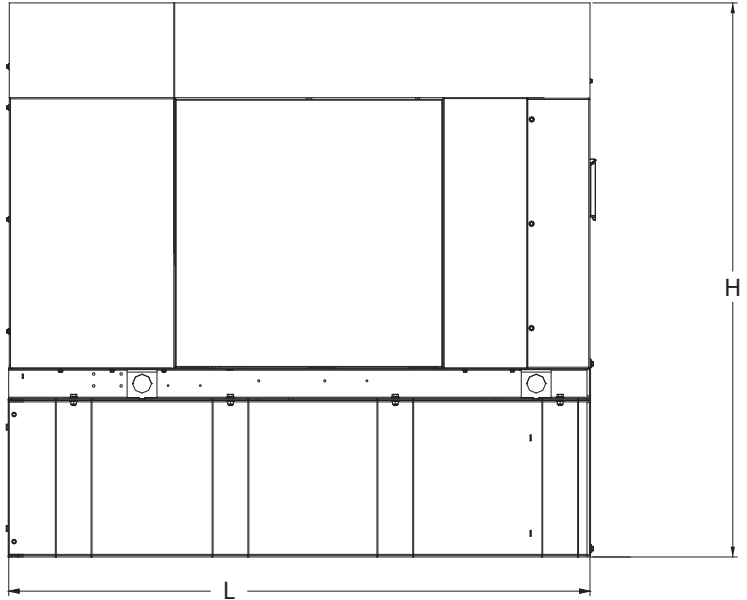
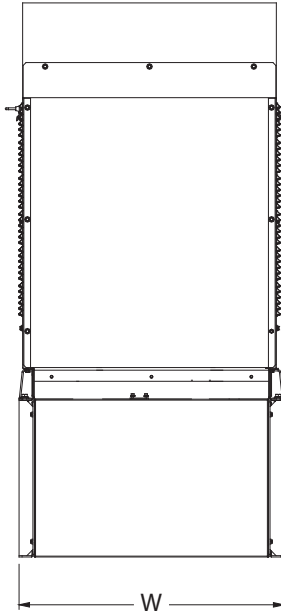
ENGINE

EXHAUST

ENGINE			EXHAUST		
		Standby			Standby
Rated Engine Speed	rpm	1,800	Exhaust Flow (Rated Output)	ft ³ /min (m ³ /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 (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.

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

BASEMAPS >

MAP LAYERS >

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

Measure

Feet (US)

Measurement Result

469.5 Feet (US)



1:4,514
41.399 | -72.086