

10 INDUSTRIAL AVE,
SUITE 3
MAHWAH NJ 07430

PHONE: 201.684.0055
FAX: 201.684.0066



June 22, 2021

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

RE: Notice of Exempt Modification
7 West View Drive, Danbury, CT, 06810
Latitude: 41.39600000
Longitude: -73.42380000
T-Mobile Site#: CT11923C - Hardening

Dear Ms. Bachman:

T-Mobile currently maintains twelve (12) antennas at the 188-foot and 50-foot level of the existing 100-foot lattice tower at 7 West View Drive, Danbury, CT. The 100-foot lattice tower and property is owned and operated by Seven T LLC. T-Mobile now intends to add a 25Kw generator to an expanded 4' x 10' concrete pad within the existing compound.

Planned Modifications:

Ground:

Install New:

- (1) Generac RD025 25KW AC Diesel Generator - 240 gallon double walled self-contained tank with fuel sensor. Requires (2) 12-minute run cycles by-weekly.
- (1) 4' x 10' Concrete pad in new 40-ft lease area

This facility was originally approved by the City of Danbury. Documentation on the original approval and subsequent approvals for the tower are enclosed with the submission. T-Mobile was approved for tower sharing by the Connecticut Siting Council on June 9, 2004. The proposed modification complies with all previous approvals.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16- SOj-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-SOj-73, a copy of this letter is being sent to Mayor - Joseph M. Cavo, Elected Official, and Sharon Calirto, Planning and Zoning Director, as well as the property/tower owner.

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 modifications will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, T-Mobile respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Eric Breun

Transcend Wireless

Cell: 201-658-7728

Email: ebreun@transcendwireless.com

Attachments

cc: Joseph M. Cavo - Mayor of Danbury

Sharon Calitro - Planning and Zoning Director

Seven T LLC - Tower/Property Owner

ERIC BREUN
2016587728
10 INDUSTRIAL AVE
MAHWAH NJ 07430

1 LBS

1 OF 1

SHIP TO:
PLANNING AND ZONING DIRECTOR
SHARON CALITRO
FIRST FLOOR
155 DEER HILL AVENUE
DANBURY CT 06810



CT 068 0-01



UPS GROUND

TRACKING #: 1Z V25 742 03 9786 4085



BILLING: P/P

Reference #1: CT11923C

XOL 21.05.18 NV45 25.0A 06/2021*



TM

ERIC BREUN
2016587728
10 INDUSTRIAL AVE
MAHWAH NJ 07430

1 LBS

1 OF 1

SHIP TO:
MAYOR OF DANBURY
JOSEPH M. CAVO
155 DEER HILL AVENUE
DANBURY CT 06810

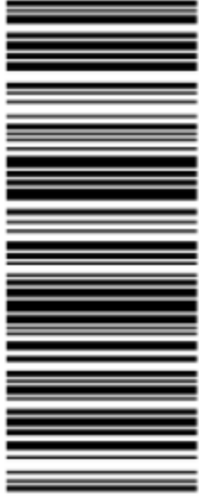


CT 068 0-01



UPS GROUND

TRACKING #: 1Z V25 742 03 9188 6965



BILLING: P/P

Reference #1: CT11923C

XOL 21.05.18 NV45 25.0A 06/2021*



TM

ERIC BREUN
2016587728
10 INDUSTRIAL AVE
MAHWAH NJ 07430

1 LBS

1 OF 1

SHIP TO:
SEVEN T LLC
39 PADANARAM ROAD
DANBURY CT 06811

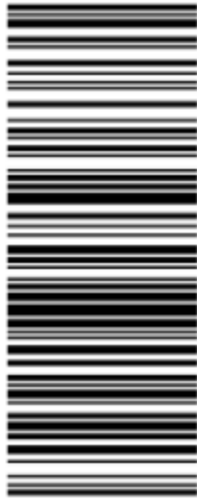


CT 068 0-01



UPS GROUND

TRACKING #: 1Z V25 742 03 9167 6978



BILLING: P/P

Reference #1: CT11923C

XOL 21-05.18 NV45 25.0A 06/2021*



7 WESTVIEW DR

[Sales](#)
[Print](#)
[Map It](#)

Location 7 WESTVIEW DR **Mblu** L14/ / 107//
Acct# **Owner** SEVEN T LLC
Assessment \$354,900 **Appraisal** \$507,000
PID 10750 **Building Count** 1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2020	\$413,300	\$93,700	\$507,000

Assessment			
Valuation Year	Improvements	Land	Total
2020	\$289,300	\$65,600	\$354,900

Owner of Record

Owner SEVEN T LLC **Sale Price** \$0
Co-Owner **Book & Page** 1579/ 817
Address 39 PADANARAM RD **Sale Date** 08/27/2003
 DANBURY, CT 06811 **Instrument** 03

Ownership History

Ownership History				
Owner	Sale Price	Book & Page	Instrument	Sale Date
SEVEN T LLC	\$0	1579/ 817	03	08/27/2003
KAUFMAN ROBERT J	\$0	0580/0698		05/05/1976

Building Information

Building 1 : Section 1

Year Built: 1979
 Living Area: 1,064
 Replacement Cost: \$151,045
 Building Percent Good: 75
 Replacement Cost
 Less Depreciation: \$113,300

Building Attributes	
Field	Description
Style	Cape Cod
Model	Residential
Grade:	Average
Stories:	1 1/2 Stories
Occupancy	
Exterior Wall 1	Vinyl Siding
Exterior Wall 2	
Roof Structure:	Gable
Roof Cover	Asphalt Shngl.
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Flr 1	Minimum/Plywd
Interior Flr 2	
Heat Fuel	Coal or Wood
Heat Type:	None
AC Type:	None
Total Bedrooms:	00
Total Bthrms:	0
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	1 Room
Bath Style:	Average
Kitchen Style:	Average
Fireplaces	
Whirlpool	
Addn'l Kitchen	

Building Photo

Building Photo

Building Layout



Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	1,064	1,064
BSM	Basement	1,064	0
UHS	Half Story, Unfinished	1,064	0
		3,192	1,064

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use		Land Line Valuation	
Use Code	201R	Size (Acres)	0.23
Description	Comm/Res MDL-01 ⓘ	Frontage	0
Zone	RA-8	Depth	0
Neighborhood		Assessed Value	\$65,600
Alt Land Appr Category	No	Appraised Value	\$93,700

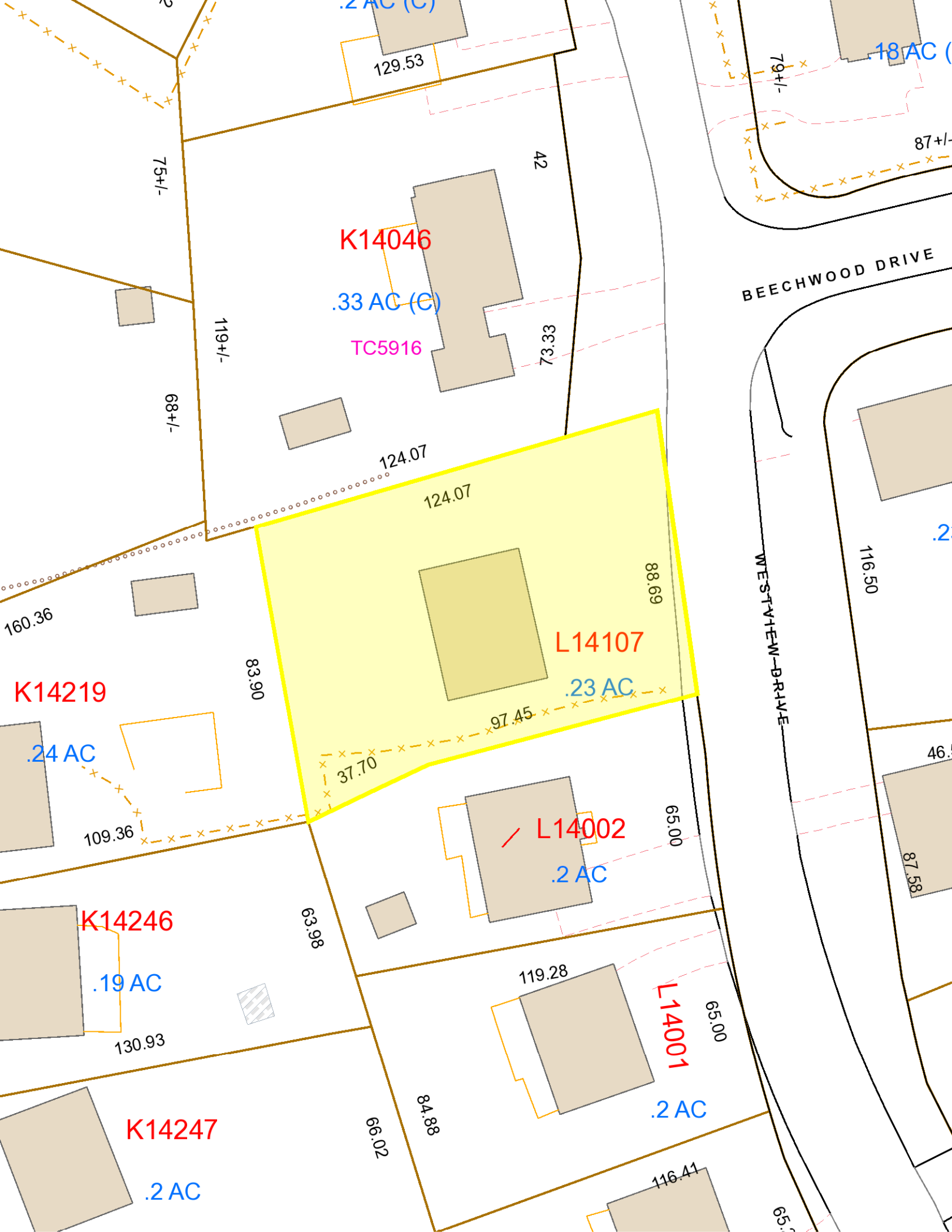
Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
CEL	Cell Tower			1 UNITS	\$300,000	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2019	\$413,300	\$93,700	\$507,000
2018	\$413,300	\$93,700	\$507,000
2017	\$413,300	\$93,700	\$507,000

Assessment			
Valuation Year	Improvements	Land	Total
2019	\$289,300	\$65,600	\$354,900
2018	\$289,300	\$65,600	\$354,900
2017	\$289,300	\$65,600	\$354,900





CITY OF DANBURY
Building Department

155 DEER HILL AVENUE
DANBURY, CONNECTICUT 06810

Certificate of Approval

Issued Date: 05/31/2017 Application #: 17-00060059 Parcel #L14107

Property Zone: RA-8

Owner: SEVEN T LLC

Contractor: D & A CONSTRUCTION MANAGEMENT

Property Address: 7 WESTVIEW DR

Owner Address: 39 PADANARAM RD.
DANBURY, CT, 06811

Application type: COMMERCIAL ALTERATION

The described portion has been inspected for substantial compliance with the current Connecticut State Building Code.

Work Description: UPGRADE/REPLACE EXISTING CELL TOWER EQUIPMENT.

Stipulations or conditions:

David Newland
Building Official City of Danbury



CITY OF DANBURY
Building Department
155 DEER HILL AVENUE
DANBURY, CONNECTICUT 06810

Certificate of Approval

Issued Date: 06/03/2015 Application #: 15-00056347 Parcel #L14107-

Property Zone: RA-8

Owner: SEVEN T LLC
Contractor: TRANSCEND WIRELESS LLC

Property Address: 7 WESTVIEW DR

Owner Address: 39 PADANARAM RD.
DANBURY, CT, 06811

Application type: CELL TOWER NEW CONSTRUCTION

The described portion has been inspected for substantial compliance with the current Connecticut State Building Code.

C

Work Description: UPGRADE EXISTING TELECOMMUNICATION FACILITY. .ADD 3 ANTENNAS

Stipulations or conditions:

David Newland
Building Official City of Danbury



CITY OF DANBURY
Department of Permit Coordination
155 DEER HILL AVENUE
DANBURY, CONNECTICUT 06810

Certificate of Zoning Compliance

Issued Date: 03/04/2014 Application #: 13-00053832 Parcel #L14107-

Property Zone: RA-8

Owner: SEVEN T LLC
Contractor: HPC WIRELESS SERVICES LLC

Property Address: 7 WESTVIEW DR


Owner Address: 39 PADANARAM RD.
DANBURY, CT, 06811

Application type: CELL TOWER

Work Description: REPLACE 6 EXISTING ANTENNAS & ONE FIBER CABLE.

Stipulations or conditions:

Approved.....


Sean Hearty

Zoning Enforcement Officer, City of Danbury



CITY OF DANBURY
Building Department

155 DEER HILL AVENUE
DANBURY, CONNECTICUT 06810

Certificate of Completion

Issued Date: 03/04/2014 Application #: 13-00053832 Parcel #L14107-

Property Zone: RA-8

Owner: SEVEN T LLC

Contractor: HPC WIRELESS SERVICES LLC

Property Address: 7 WESTVIEW DR

Owner Address: 39 PADANARAM RD.
DANBURY, CT, 06811

Application type: CELL TOWER NEW CONSTRUCTION

The described portion has been inspected for substantial compliance with the current Connecticut State Building Code.

Work Description: REPLACE 6 EXISTING ANTENNAS & ONE FIBER CABLE.

Stipulations or conditions:

A handwritten signature in black ink, appearing to read "David Newland", written over a horizontal line.

David Newland
Building Official City of Danbury

Building Department Record

Department of Buildings

No 19147

Dated Nov. 13, 1989

To the Building Inspector of the City of Danbury:

The undersigned files the following application to erect Addition to radio building
Located Westview Dr. Assessors Lot L-14107

Distance from street line from adjacent property lines from rear line
from nearest building No. of tenements

Lot dimensions Size of Building or Additions 28 x 38'

If new Dwelling or Addition. No. of Rooms and Baths

If new Garage or Addition. No. of Cars to be used for

Zone Ra-8 Septic System City Sewer City Water

Use Group No.

Construction wood



Footings concrete Width 16" Thickness 8"

Foundation walls concrete Depth 42" Thickness 8"

Exterior walls Thickness

Interior walls sheetrock Thickness

Ceilings " "

Floors concrete

Size: Sills 2 x 6 Floor Joists Post or Lalley Cols.

Size: Plate 2 x 4 Ceiling Joists 2x6 Roof Rafters 2 x 8

Type of Heat None No. of Chimneys Flue size

Kind of Roof (Gable, Shed, Hip, Other Gable) Roof Covering 240 # asphalt

No. of Stories 1 1/2 Height Basement 1st 9'

2nd 8' 3rd 4th

Estimated Cost \$ 22,500. Name of Architect or Engineer

All details of construction to be in accordance with the ordinances of the City of Danbury.

Permit Fee Paid \$ 164.00 Adjusted Fee Adjusted Cost

Application for Certificate of Occupancy

Builder Glenwood Construciton Co.

Electrical Contractor License No.

Plumbing & Heating Contractor License No.

Owner Robert Kaufman

Phone Address 41 Padanaram Rd. Danbury, Ct.

Assessor Note:

T-Mobile

CT923/W. VIEW DR_GT

SITE ID: CT11923C

7 WEST VIEW DRIVE

DANBURY, CT 06810

GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2018 CONNECTICUT SUPPLEMENT, INCLUDING THE TIA/EIA-222 REVISION "G" STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND SUPPORTING STRUCTURES, 2017 CONNECTICUT FIRE SAFETY CODE, NATIONAL ELECTRICAL CODE AND LOCAL CODES.
- CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUBCONTRACTORS AND ALL RELATED PARTIES. THE SUBCONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
- CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON THE DRAWINGS OR IN THE WRITTEN SPECIFICATIONS.
- CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB ALL IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
- CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND ALL INSPECTIONS REQUIRED AND SHALL ALSO PAY FEES REQUIRED FOR THE GENERAL CONSTRUCTION, PLUMBING, ELECTRICAL, AND HVAC. PERMITS SHALL BE PAID FOR BY THE RESPECTIVE SUBCONTRACTORS.
- CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS AND SPECIFICATIONS ON SITE AT ALL TIMES AND INSURE DISTRIBUTION AND SPECIFICATIONS ON SITE AT ALL TIMES AND INSURE DISTRIBUTION OF NEW DRAWINGS TO SUBCONTRACTORS AND OTHER RELEVANT PARTIES AS SOON AS THEY ARE MADE AVAILABLE. ALL OLD DRAWINGS SHALL BE MARKED VOID AND REMOVED FROM THE CONTRACT AREA. THE CONTRACTOR SHALL FURNISH AN "AS-BUILT" SET OF DRAWINGS TO OWNER UPON COMPLETION OF PROJECT.
- LOCATION OF EQUIPMENT, AND WORK SUPPLIED BY OTHERS THAT IS DIAGRAMMATICALLY INDICATED ON THE DRAWINGS SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE LOCATIONS AND DIMENSIONS SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF THE SUBCONTRACTORS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURES AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY.
- DRAWINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANDARD TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COSTS.
- ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
- ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUBCONTRACTORS FOR ANY CONDITION PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
- ANY AND ALL ERRORS, DISCREPANCIES, AND 'MISSED' ITEMS ARE TO BE BROUGHT TO THE ATTENTION OF THE T-MOBILE CONSTRUCTION MANAGER DURING THE BIDDING PROCESS BY THE CONTRACTOR. ALL THESE ITEMS ARE TO BE INCLUDED IN THE BID. NO 'EXTRA' WILL BE ALLOWED FOR MISSED ITEMS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE SAFETY FROM THE TIME THE JOB IS AWARDED UNTIL ALL WORK IS COMPLETE AND ACCEPTED BY THE OWNER.
- CONTRACTOR TO REVIEW ALL SHOP DRAWINGS AND SUBMIT COPY TO ENGINEER FOR APPROVAL. DRAWINGS MUST BEAR THE CHECKER'S INITIALS BEFORE SUBMITTING TO THE CONSTRUCTION MANAGER FOR REVIEW.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS AT THE SITE, PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA.
- COORDINATION, LAYOUT, FURNISHING AND INSTALLATION OF CONDUITS AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LIABLE FOR ALL REPAIRS REQUIRED FOR EXISTING STRUCTURES IF DAMAGED DURING CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL CONTACT 'CALL BEFORE YOU DIG' AT LEAST 48 HOURS PRIOR TO ANY EXCAVATIONS AT 1-800-922-4455. ALL UTILITIES SHALL BE IDENTIFIED AND CLEARLY MARKED. CONTRACTOR SHALL MAINTAIN AND PROTECT MARKED UTILITIES THROUGHOUT PROJECT COMPLETION.
- CONTRACTOR SHALL COMPLY WITH THE OWNER'S ENVIRONMENTAL ENGINEER ON ALL METHODS AND PROVISIONS FOR ALL EXCAVATION ACTIVITIES INCLUDING SOIL DISPOSAL. ALL BACKFILL MATERIALS TO BE PROVIDED BY THE CONTRACTOR.

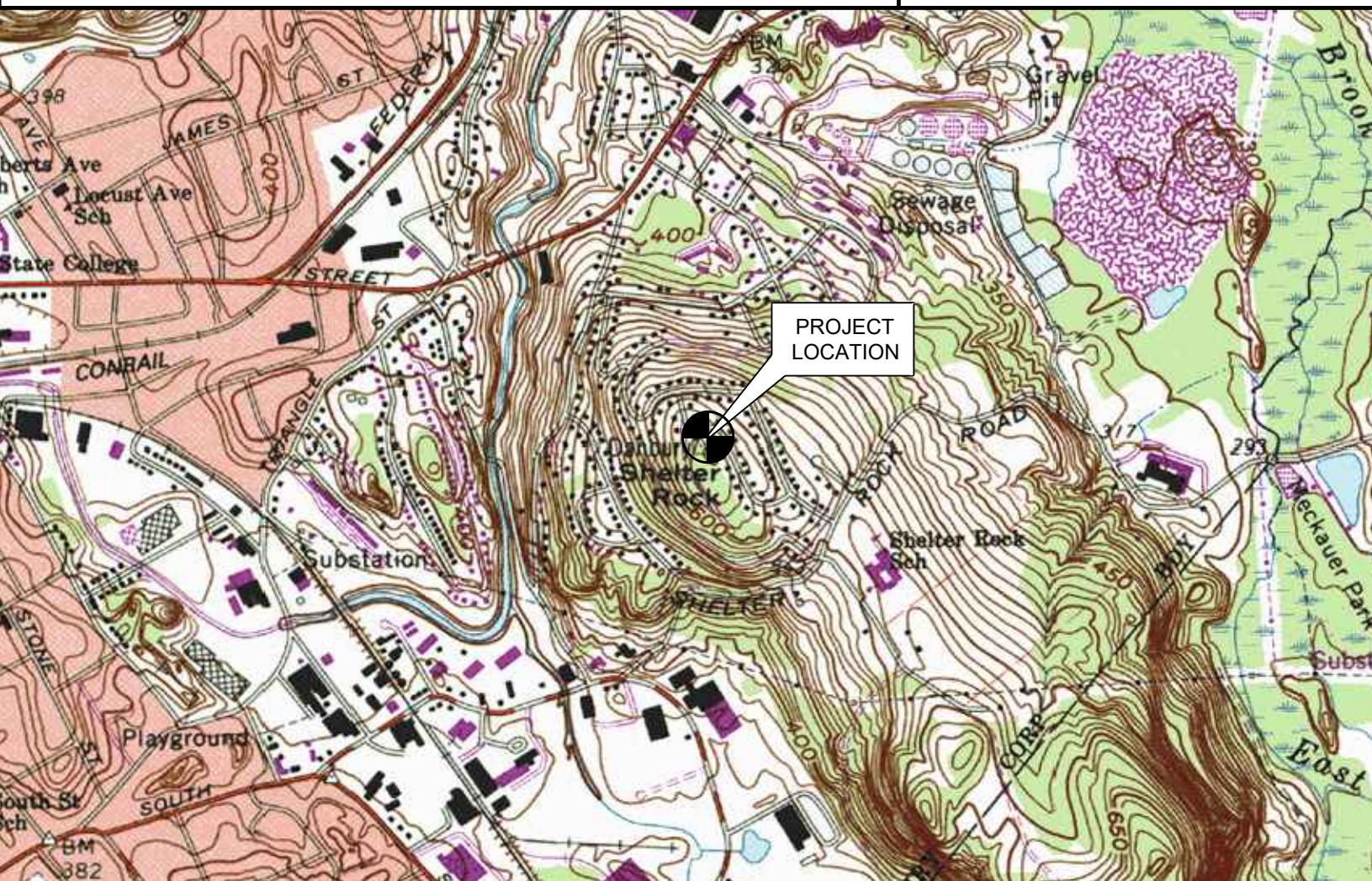
SITE DIRECTIONS

FROM: 35 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002 **TO:** 7 WEST VIEW DRIVE DANBURY, CT 06810

- HEAD NORTH ON GRIFFIN ROAD S. TOWARD HARTMAN RD. 0.21 MI.
- TAKE THE 2ND RIGHT ONTO DAY HILL RD. 0.14 MI.
- TAKE THE 1ST RIGHT ONTO BLUE HILLS AVENUE EXT/CT-187 1.89 MI.
- TURN LEFT ONTO CT-305/OLD WINDSOR RD. 2.32 MI.
- STAY STRAIGHT TO GO ONTO BLOOMFIELD AVE/CT-305. 0.01 MI.
- MERGE ONTO I-91 S TOWARD HARTFORD 5.66 MI.
- MERGE ONTO I-84 W via EXIT 32A TOWARD WATERBURY 13.29 MI.
- KEEP LEFT TO TAKE I-84 TOWARD WATERBURY 40.69 MI.
- MERGE ONTO NEWTOWN RD via EXIT 8 TOWARD BETHEL 1.68 MI.
- TURN LEFT ONTO OLD SHELTER ROCK RD 0.14 MI.
- TAKE THE 1ST LEFT ONTO WOODSIDE AVE 0.02 MI.
- TAKE THE 1ST RIGHT ONTO TOPSTONE DR. 0.17 MI.
- TAKE THE 1ST RIGHT TO STAY ON TOPSTONE DR. 0.17 MI.
- TAKE THE 1ST RIGHT ONTO WESTVIEW DR. 0.06 MI.

SITE COORDINATES: LATITUDE: 41° 23' 45.37" N
LONGITUDE: 73° 25' 26.31" W
GROUND ELEVATION: ±630' AMSL

COORDINATES AND GROUND ELEVATION ARE REFERENCED FROM GOOGLE EARTH



VICINITY MAP



PROJECT SUMMARY

- THE PROPOSED SCOPE OF WORK CONSISTS OF A MODIFICATION TO THE EXISTING UNMANNED TELECOMMUNICATIONS FACILITY INCLUDING THE FOLLOWING:
 - INSTALL (1) NEW 25 KW DIESEL FUELED BACK-UP GENERATOR ON A PROPOSED 10' x 4' CONC. SLAB-ON-GRADE WITHIN THE EXISTING COMPOUND
 - INSTALL (1) 200A AUTOMATIC TRANSFER SWITCH ON A PROPOSED UTILITY FRAME

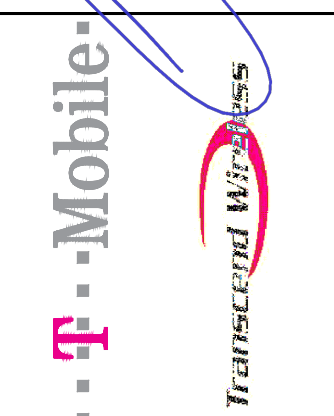
PROJECT INFORMATION

SITE NAME: CT923/W. VIEW DR_GT
SITE ID: CT11923C
SITE ADDRESS: 7 WEST VIEW DRIVE DANBURY, CT 06810
APPLICANT: T-MOBILE NORTHEAST, LLC 35 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002
CONTACT PERSON: DAN REID (PROJECT MANAGER) TRANSCEND WIRELESS, LLC (203) 592-8291
ENGINEER OF RECORD: CENTEK ENGINEERING, INC. 63-2 NORTH BRANFORD RD. BRANFORD, CT 06405
 CARLO F. CENTORE, PE (203) 488-0580 EXT. 122
PROJECT COORDINATES: LATITUDE: 41°-23'-45.37" N
LONGITUDE: 73°-25'-26.31" W
GROUND ELEVATION: 630± AMSL
 SITE COORDINATES AND GROUND ELEVATION REFERENCED FROM GOOGLE EARTH.

SHEET INDEX

SHT. NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	0
N-1	GENERAL NOTES AND SPECIFICATIONS	0
C-1	COMPOUND AND EQUIPMENT PLAN	0
C-2	TYPICAL EQUIPMENT DETAILS	0
E-1	TYPICAL ELECTRICAL DETAILS	0
E-2	RISER AND CONDUIT ROUTING PLAN	0

PROFESSIONAL ENGINEER SEAL



CENTEK engineering

Centered on Solutions
 (203) 488-0580
 (203) 488-8587 Fax
 63-2 North Branford Road
 Branford, CT 06405
 www.CentekEng.com

T-MOBILE NORTHEAST LLC

CT923/W. VIEW DR_GT
 SITE ID: CT11923C
 7 WEST VIEW DRIVE
 DANBURY, CT 06810

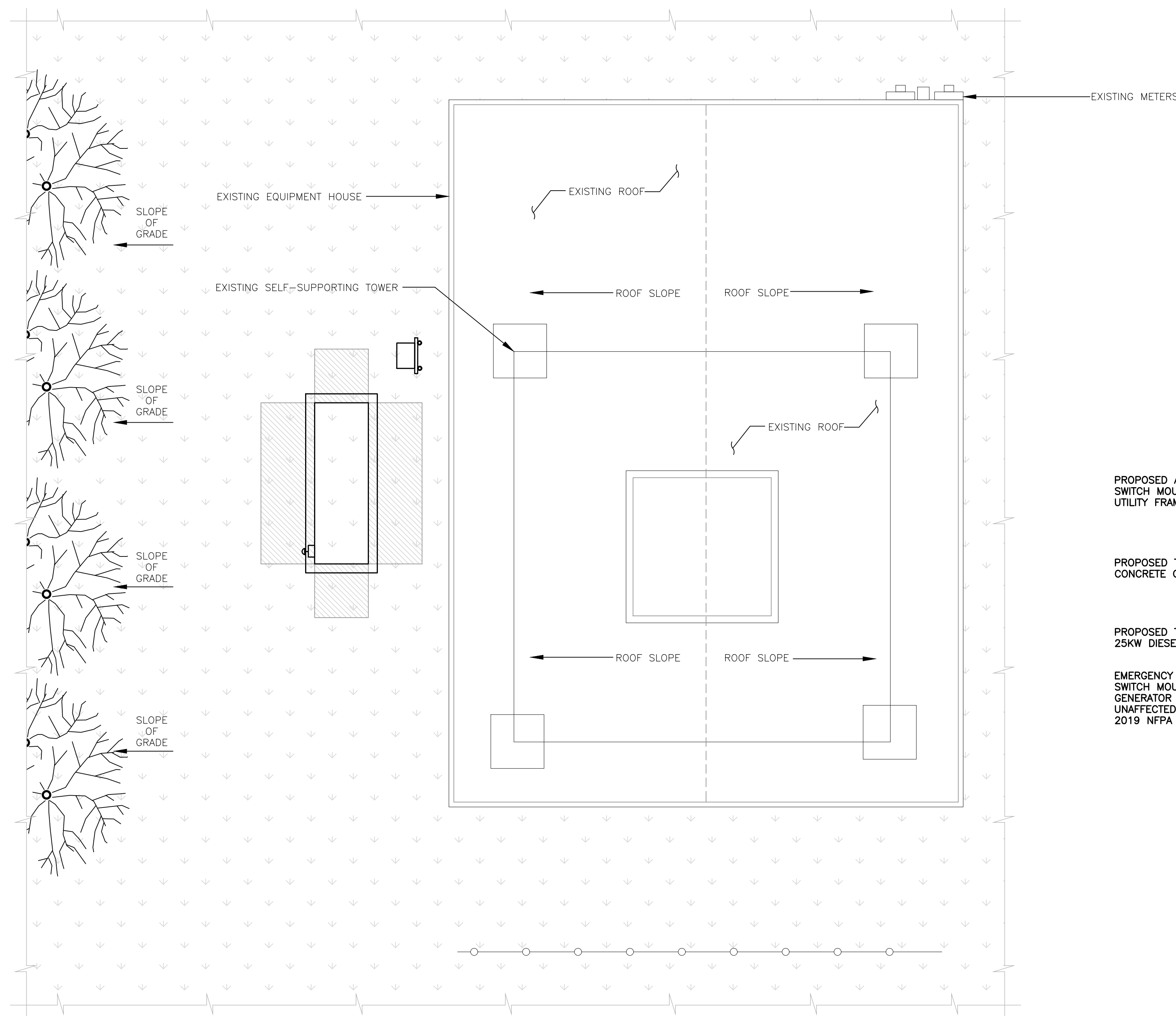
DATE: 03/19/21
 SCALE: AS NOTED
 JOB NO. 21003.03

TITLE SHEET

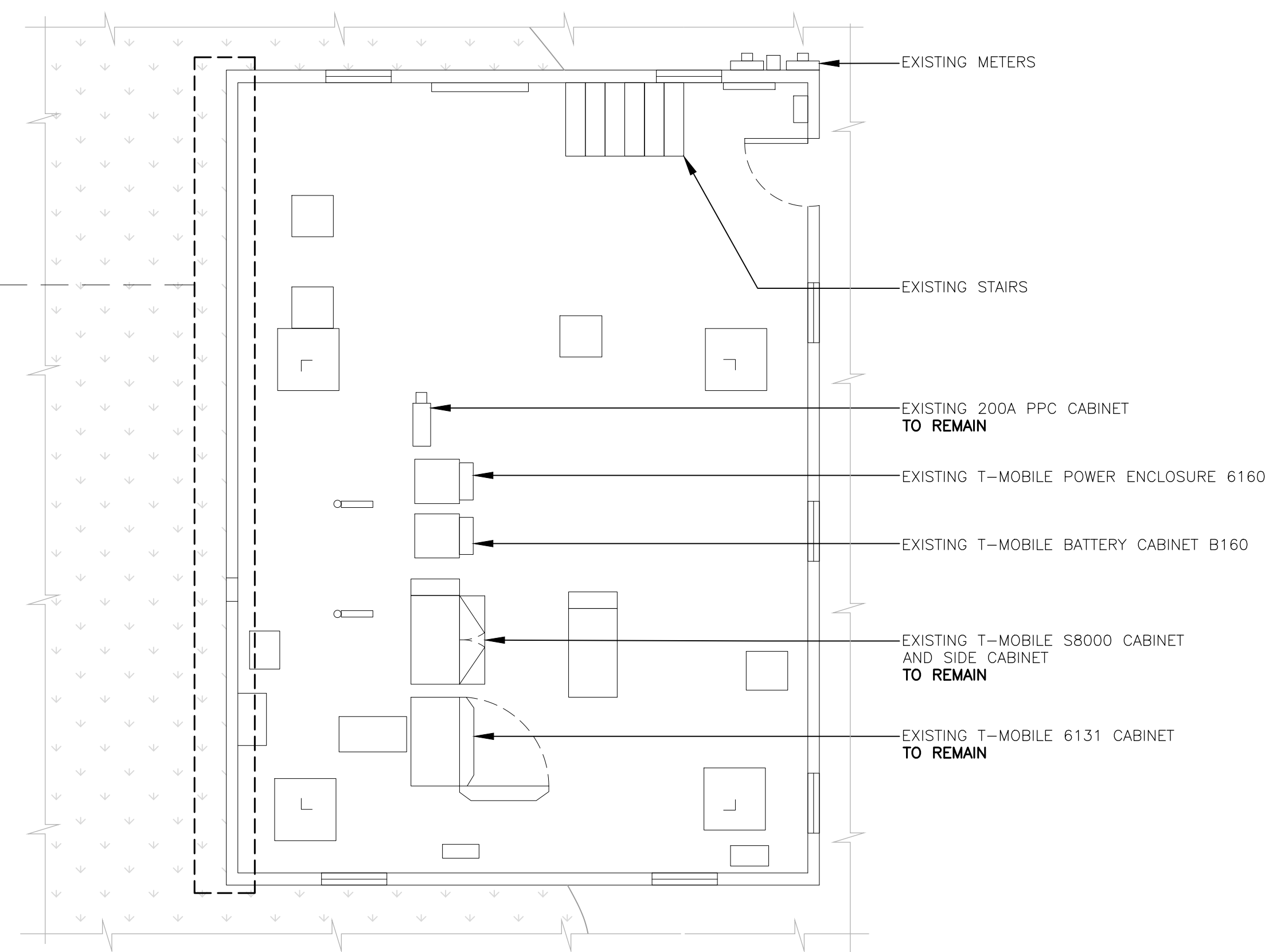
T-1

Sheet No. 1 of 6

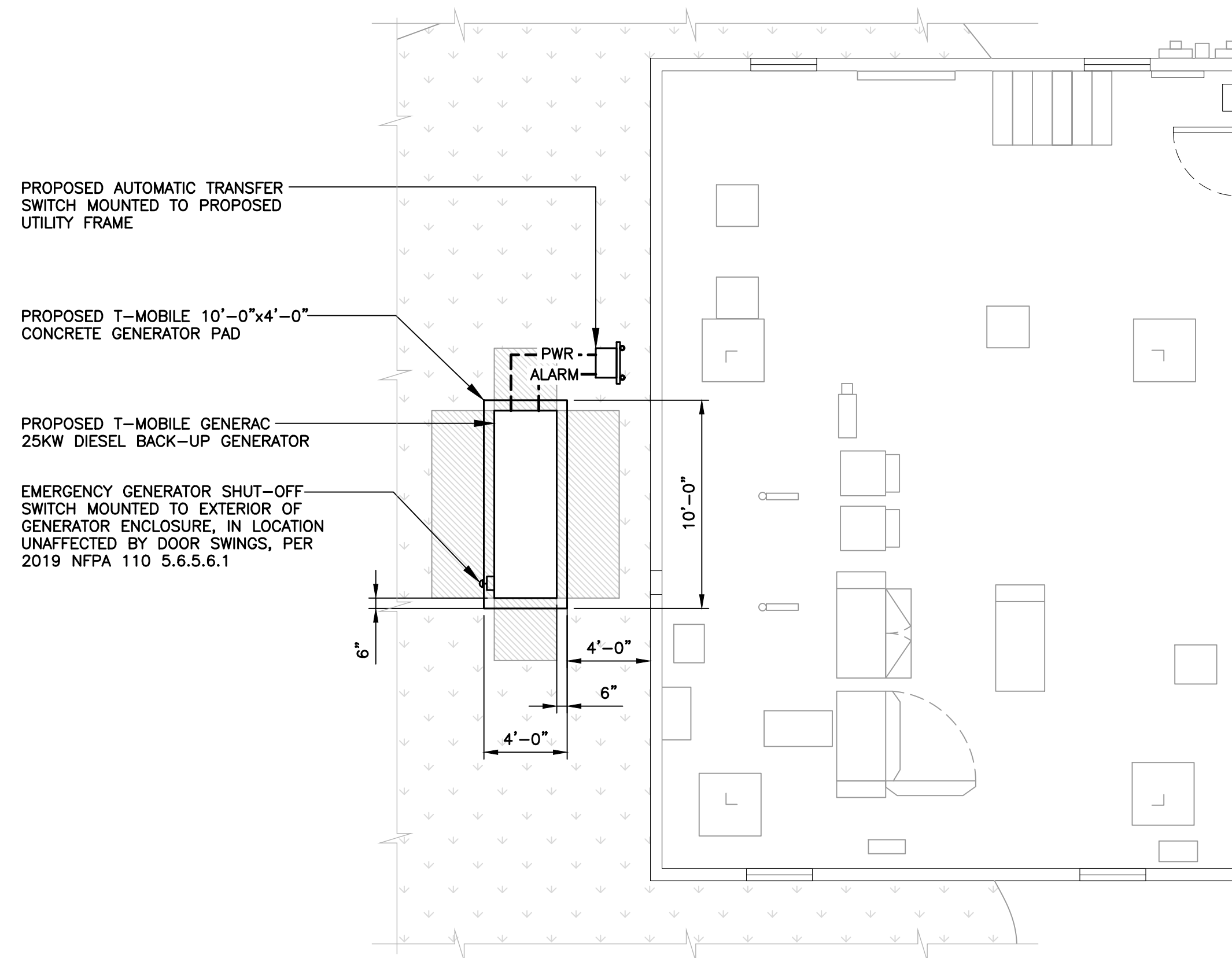
CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
 TJR
 RJS
 DATE 05/11/21
 REV. 0



1 PROPOSED COMPOUND PLAN
 C-1 SCALE: 1/4" = 1' TRUE NORTH

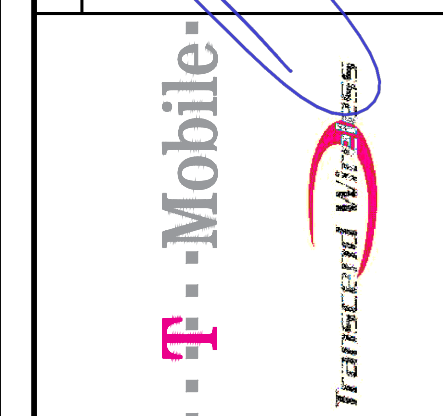


2 EXISTING EQUIPMENT LAYOUT PLAN
 C-1 SCALE: 1/4" = 1' TRUE NORTH



3 PROPOSED EQUIPMENT LAYOUT PLAN
 C-1 SCALE: 1/4" = 1' TRUE NORTH

REV.	DATE	BY	DESCRIPTION
0	05/11/21	RIS	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
		TJR	DESIGN
		DR	DRAWN BY
		CHK'D BY	



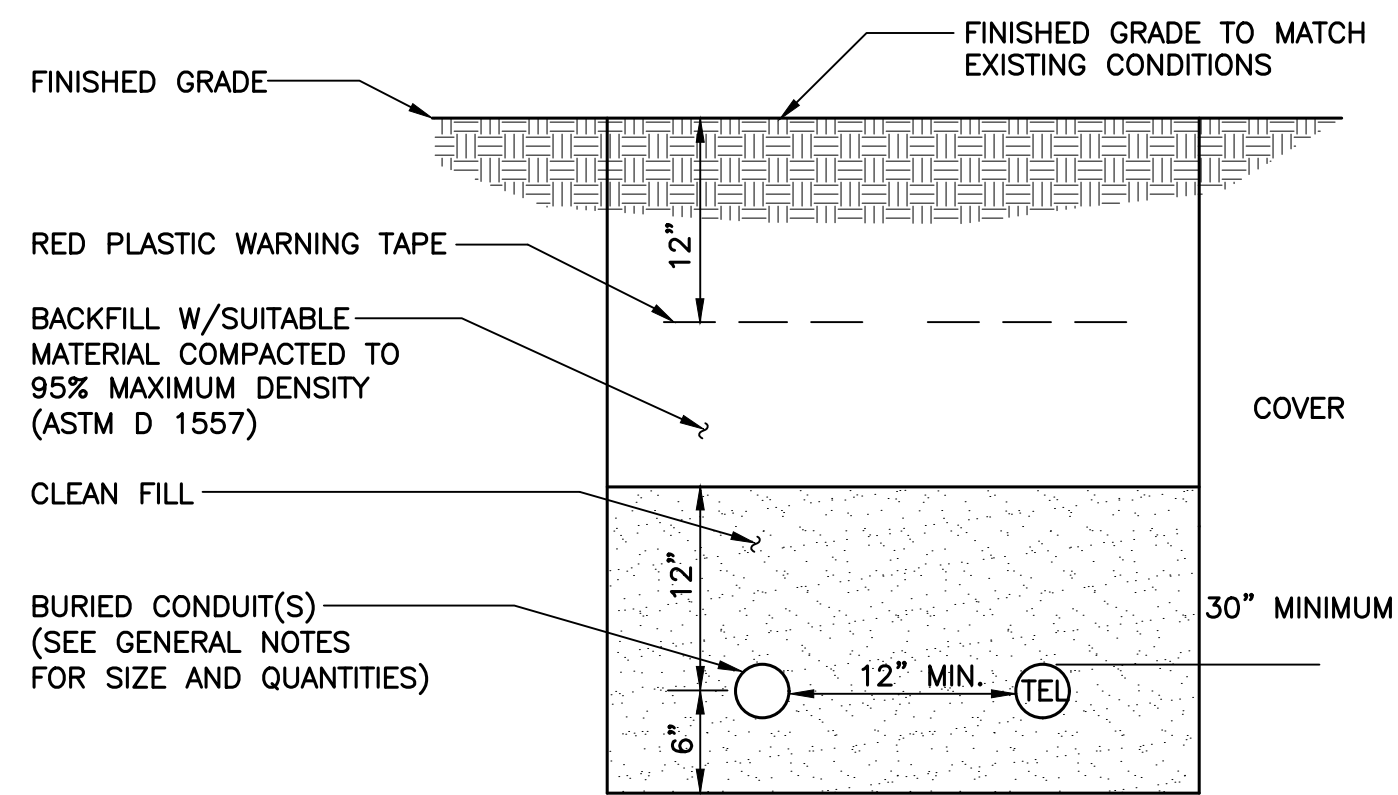
CENTEX engineering
 Centered on Solutions
 (203) 488-0380
 (203) 488-8387 Fax
 63-2 North Branford Road
 Branford, CT 06405
 www.CentexEng.com

T-MOBILE NORTHEAST LLC
 CT923/W. VIEW DR_GT
 SITE ID: CT1923C
 7 WEST VIEW DRIVE
 DANBURY, CT 06810

DATE: 03/19/21
 SCALE: AS NOTED
 JOB NO. 21003.03

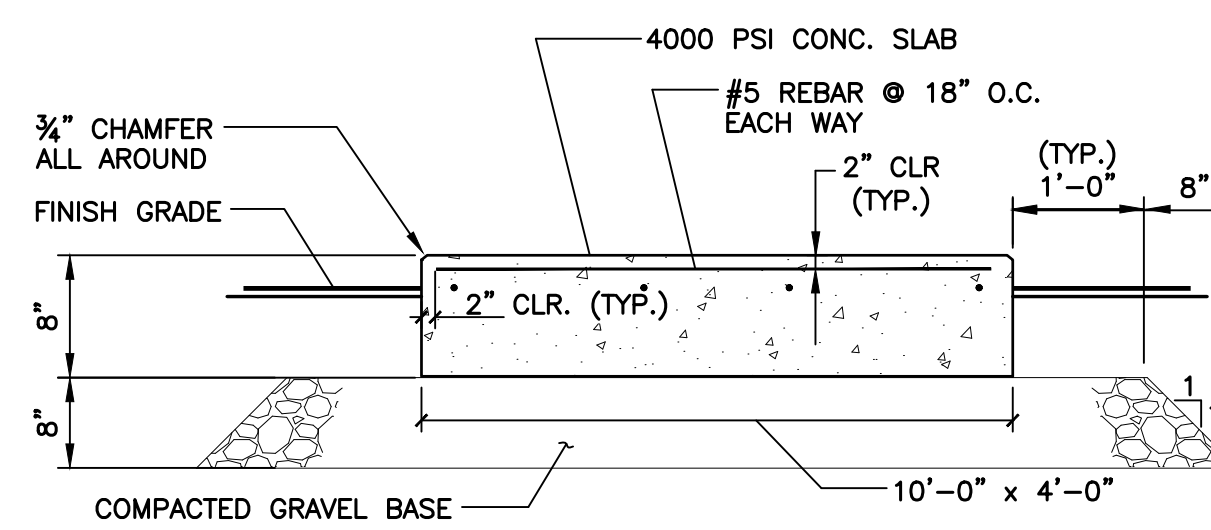
COMPOUND AND EQUIPMENT PLAN

C-1
 Sheet No. 3 of 6

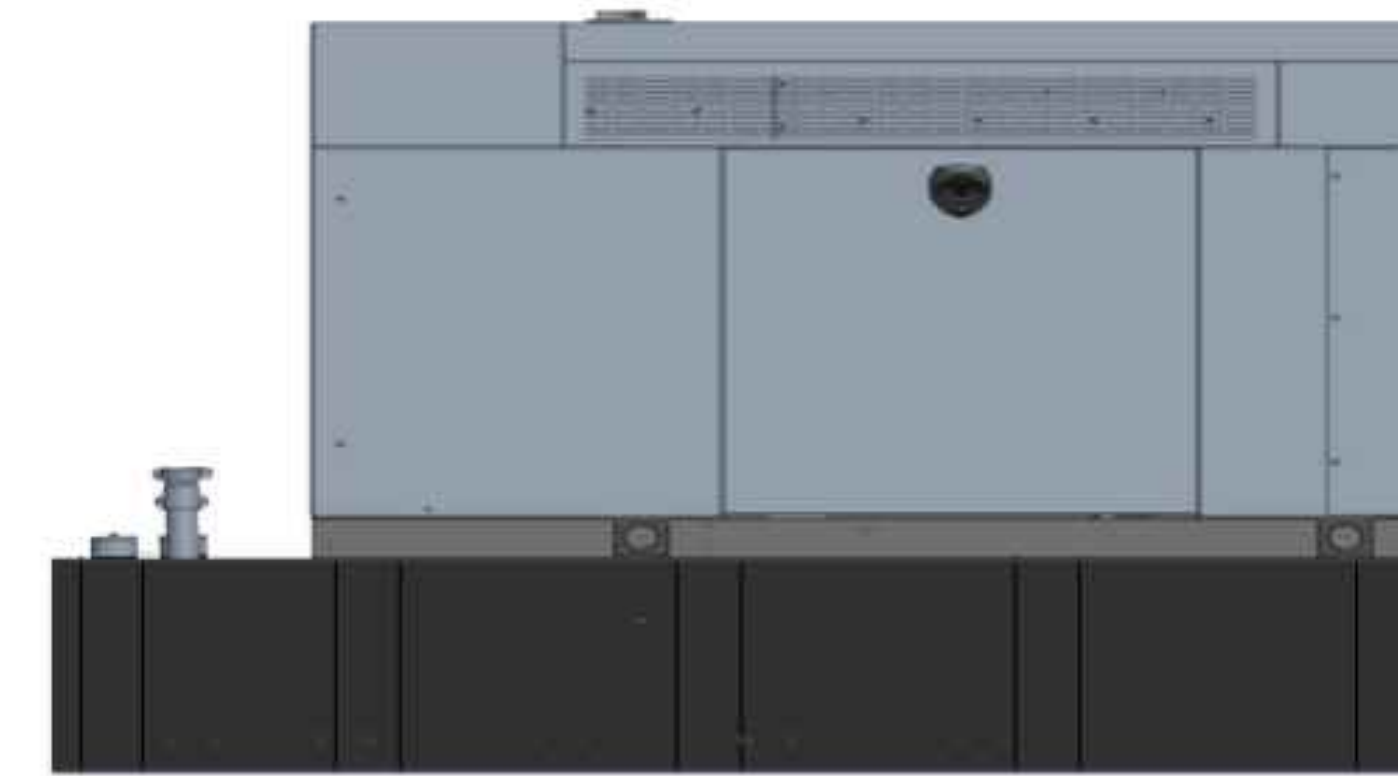


- NOTES:**
1. THE CLEAN FILL SHALL PASS THROUGH A 3/8" MESH SCREEN AND SHALL NOT CONTAIN SHARP STONES. OTHER BACKFILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION.
 2. WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.

1 TYPICAL ELECTRICAL/TEL TRENCH DETAIL
C-2 NOT TO SCALE



2 TYPICAL CONCRETE PAD DETAIL
C-2 NOT TO SCALE

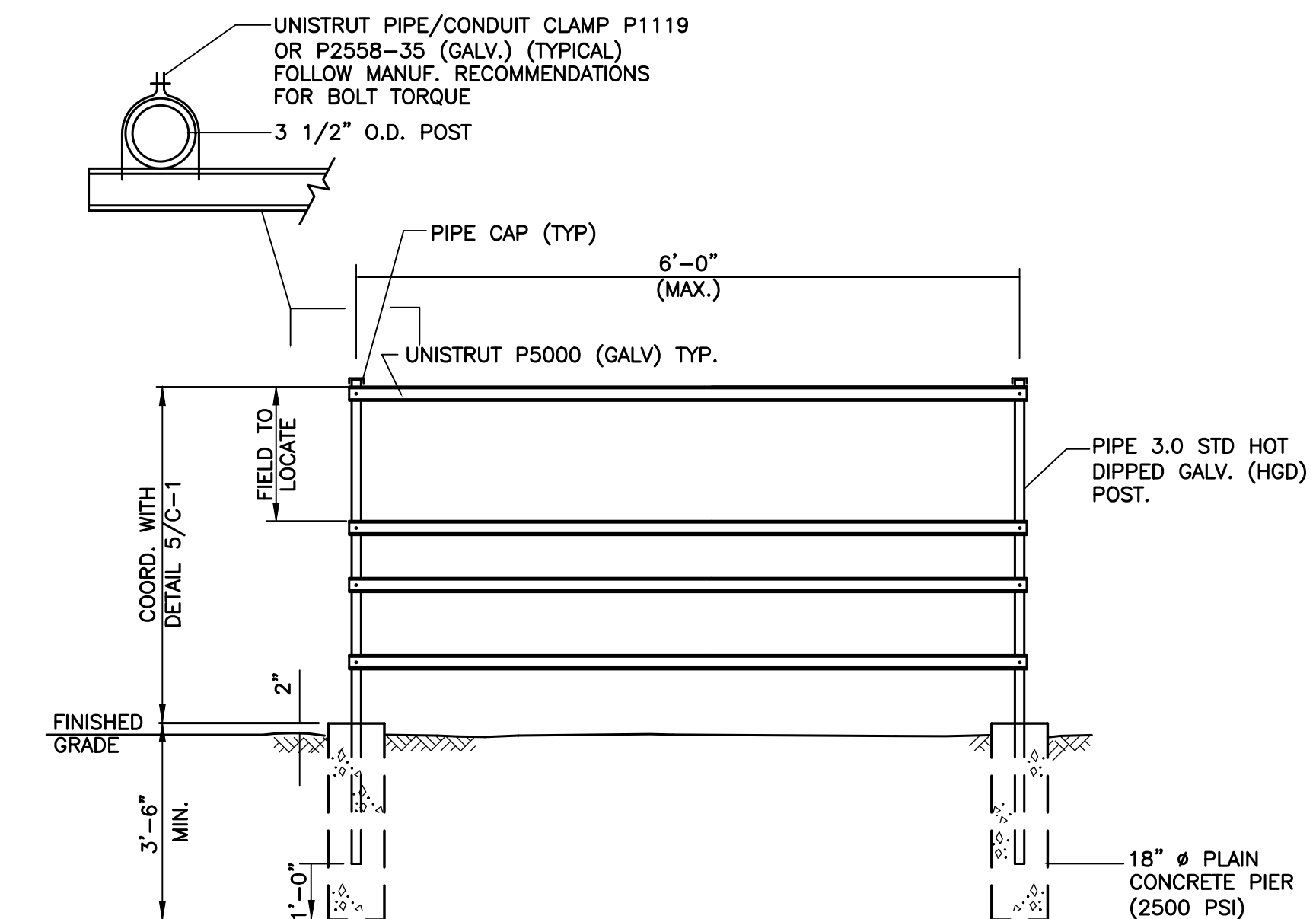


BACKUP POWER GENERATOR						
EQUIPMENT	POWER GENERATED	FUEL	MODEL NUMBER	FUEL TANK SIZE (GAL)	DIMENSIONS	WEIGHT
MAKE: GENERAC MODEL: RD025	25 KW, AC	DIESEL	7192-0	229	103.4"L x 35.0"W x 91.7"H	2123 LBS.

NOTES:

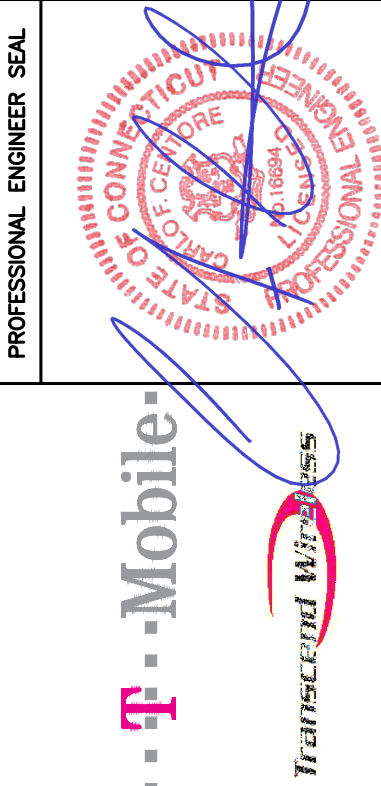
1. FUEL LEVEL/SECONDARY CONTAINMENT SHALL BE ALARMED AND IN COMMUNICATION WITH T-MOBILE'S NOC.
2. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION AND ALL OPTIONAL FEATURES WITH T-MOBILE'S CONSTRUCTION MANAGER PRIOR TO ORDERING.

3 PROPOSED GENERATOR DETAIL
C-2 SCALE: NOT TO SCALE



4 UTILITY SUPPORT FRAME (TYP)
C-2 NOT TO SCALE

REV.	DATE	BY	CHK'D	DESCRIPTION
0	05/11/21	RTS	TJR	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION



CENTEX engineering
Centered on Solutions™
(203) 488-0380
(203) 488-8387 Fax
63-2 North Branford Road
Branford, CT 06405
www.CentExEng.com

T-MOBILE NORTHEAST LLC
CT923/W. VIEW DR_GT
SITE ID: CT1923C
7 WEST VIEW DRIVE
DANBURY, CT 06810

DATE: 03/19/21
SCALE: AS NOTED
JOB NO. 21003.03

TYPICAL EQUIPMENT DETAILS

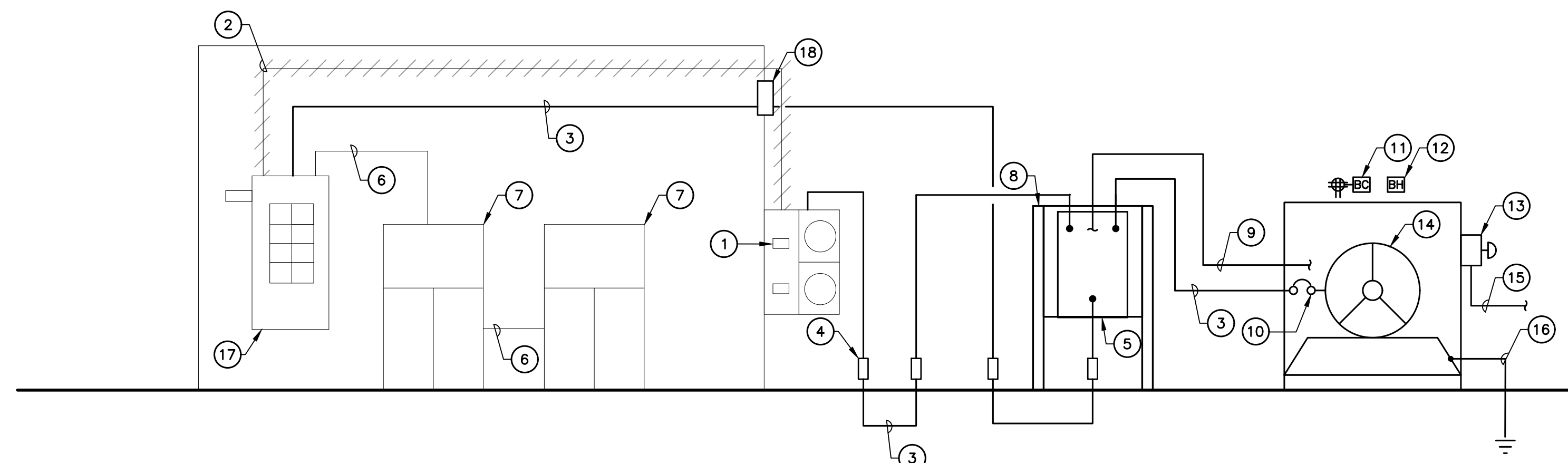
C-2
Sheet No. 4 of 6

RISER DIAGRAM NOTES

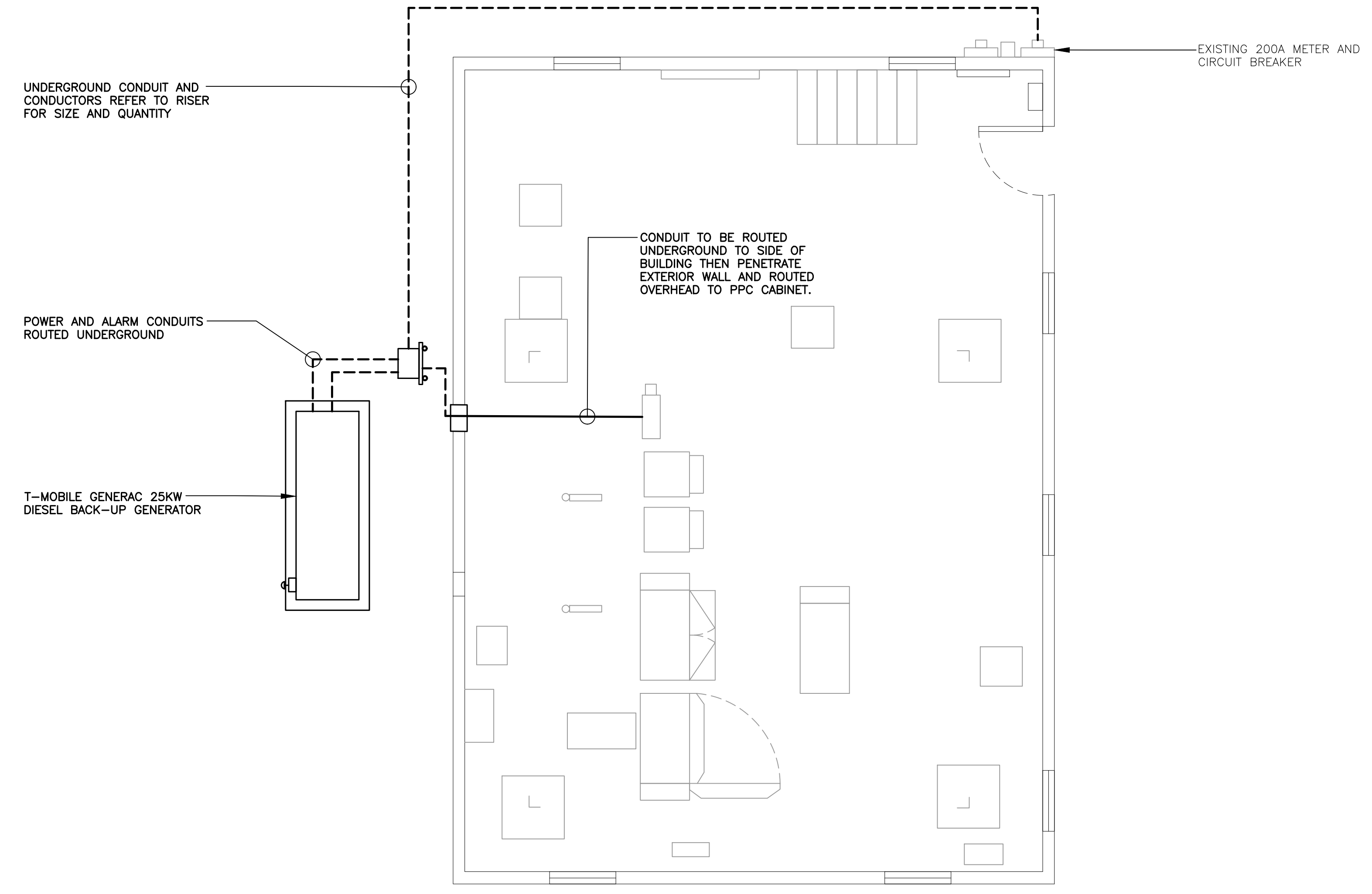
- ① EXISTING 200A METER AND CIRCUIT BREAKER TO REMAIN
- ② EXISTING CONDUIT AND CONDUCTORS TO BE REMOVED.
- ③ (3) #3/0 AWG, (1) #6 AWG GROUND, 2-1/2" CONDUIT.
- ④ EXPANSION COUPLING TYPICAL.
- ⑤ NEW 200A, 2 SOURCE AUTOMATIC TRANSFER SWITCH.
- ⑥ EXISTING CONDUITS AND CONDUCTORS TO REMAIN
- ⑦ EXISTING EQUIPMENT CABINETS TO REMAIN.
- ⑧ NEW UTILITY FRAME
- ⑨ 1" CONDUIT FOR GENERATOR CONTROL AND SIGNAL WIRING.
- ⑩ GENERATOR OUTPUT CIRCUIT BREAKER.

RISER DIAGRAM NOTES

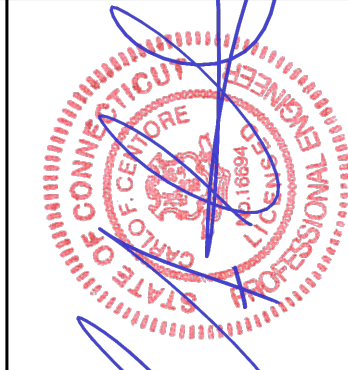


- ⑪ GENERATOR BATTERY CHARGER AND CONVENIENCE GFCI OUTLET WIRED TO EXISTING PPC. OUTLET TO BE MOUNTED IN WEATHERPROOF ENCLOSURE.
- ⑫ GENERATOR BLOCK HEATER WIRED TO EXISTING PPC.
- ⑬ REMOTE GENERATOR SHUT OFF SWITCH IN BREAK GLASS ENCLOSURE MOUNTED TO EXTERIOR OF GENERATOR ENCLOSURE PER 2019 NFPA 110 5.6.5.6.1.
- ⑭ EMERGENCY BACK UP GENERATOR.
- ⑮ 3/4" CONDUIT AND CONDUCTORS REQUIRED FOR PROPER OPERATION OF EMERGENCY GENERATOR SHUT OFF SWITCH.
- ⑯ GENERATOR GROUNDING PER NEC AND MANUFACTURER'S REQUIREMENTS. BOND TO EXISTING GROUNDING SYSTEM. (MINIMUM OF (1) #2 AWG GROUND)
- ⑰ EXISTING 200A PPC CABINET TO REMAIN
- ⑱ EXTERIOR WALL PENETRATION. COORDINATE WITH CIVIL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ENSURING PENETRATION IS THOROUGHLY WATERPROOF.



1 ELECTRICAL POWER RISER DIAGRAM
E-2 NOT TO SCALE

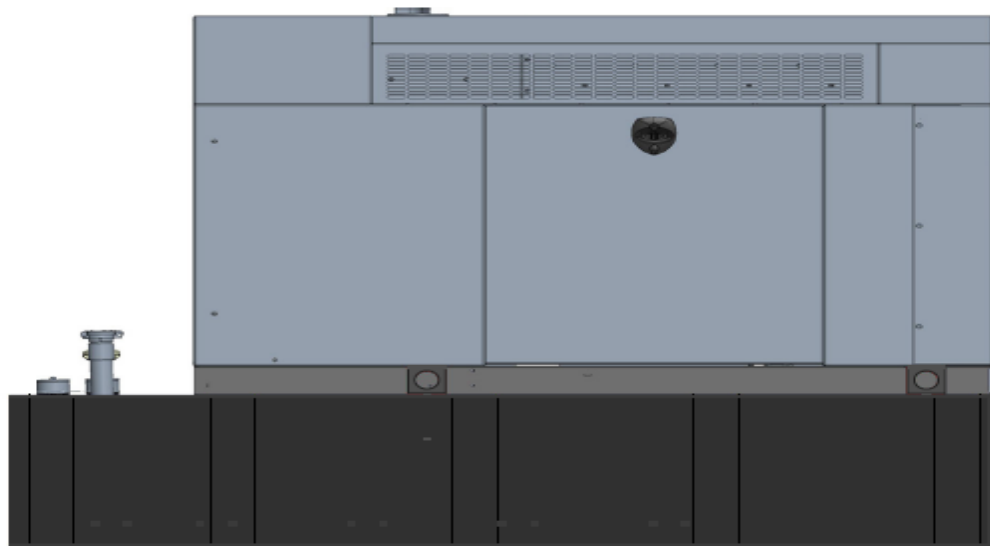


2 ELECTRICAL CONDUIT ROUTING PLAN
E-2 SCALE: 1/4" = 1'

PROFESSIONAL ENGINEER SEAL							
T-MOBILE NORTHEAST LLC		CT923/W. VIEW DR_GT SITE ID: CT1923C 7 WEST VIEW DRIVE DANBURY, CT 06810					
DATE:		03/19/21					
SCALE:		AS NOTED					
JOB NO.		21003.03					
RISER AND CONDUIT ROUTING PLAN							
E-2							
Sheet No. 6 of 6							

Generac RD025 Design Document

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



The following are responsible for this project document:

Kevin Smith

SR. Engineer (770) 256-3594

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

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1 Introduction / Project Summary

1.1 Purpose of Project

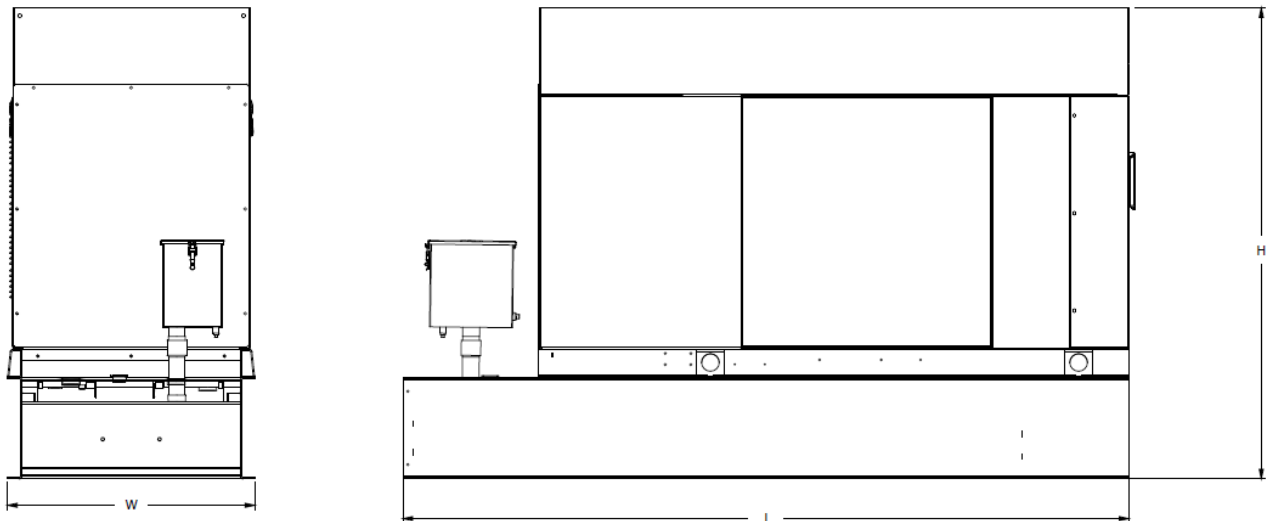
T-Mobile’s nationwide cell site hardening plan is providing a refuellable backup power system capable of powering a site for a minimum of 48 hours before refueling is required. The purpose of this project is to give T-Mobile customers reliable service during power outages and provide a sufficient layer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

1.2 Feature Description

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

1.3 Dimensions

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

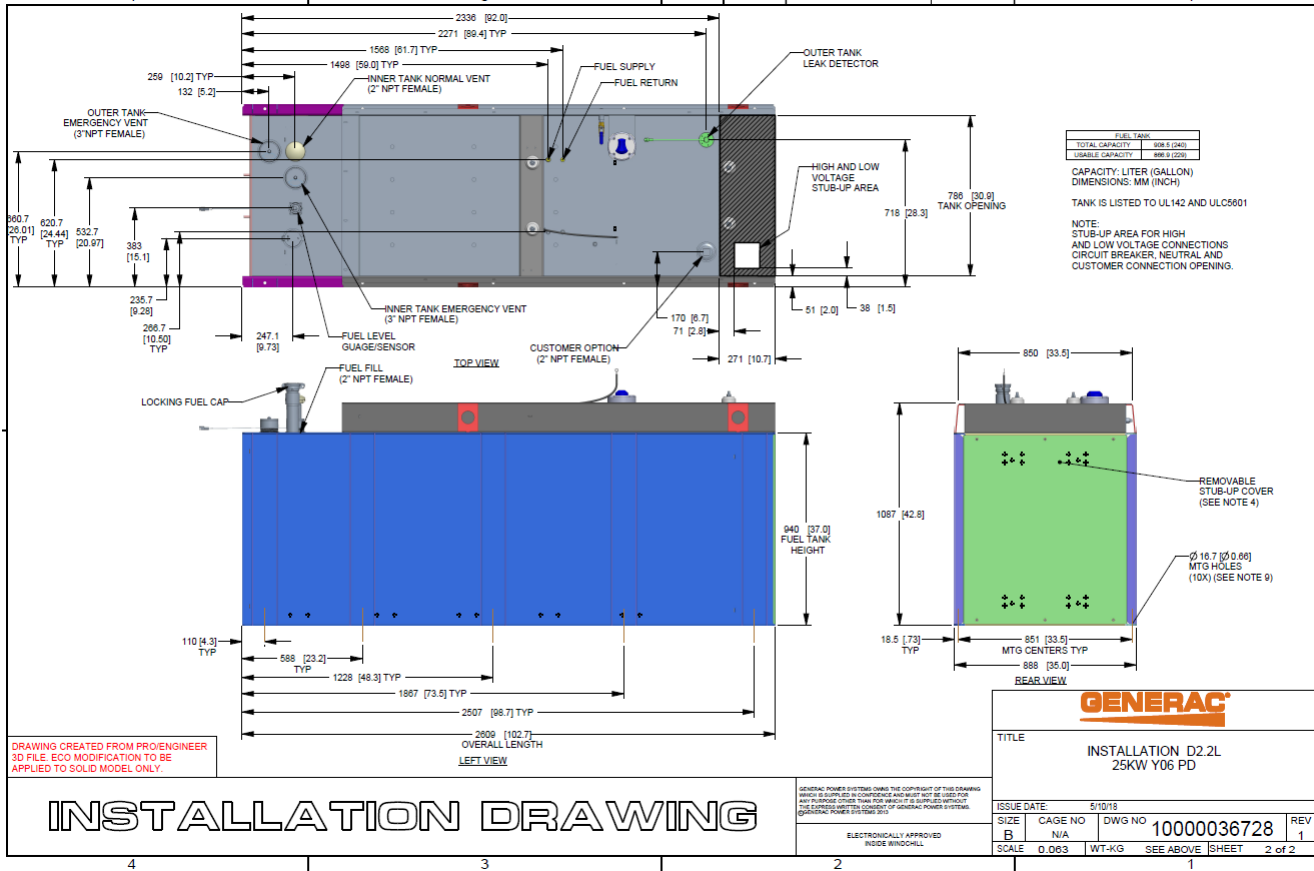


Weights and Dimensions

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

2 Fuel Tanks

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



3 RXSC200A3 ATS/ Controller

3.1 Hardware

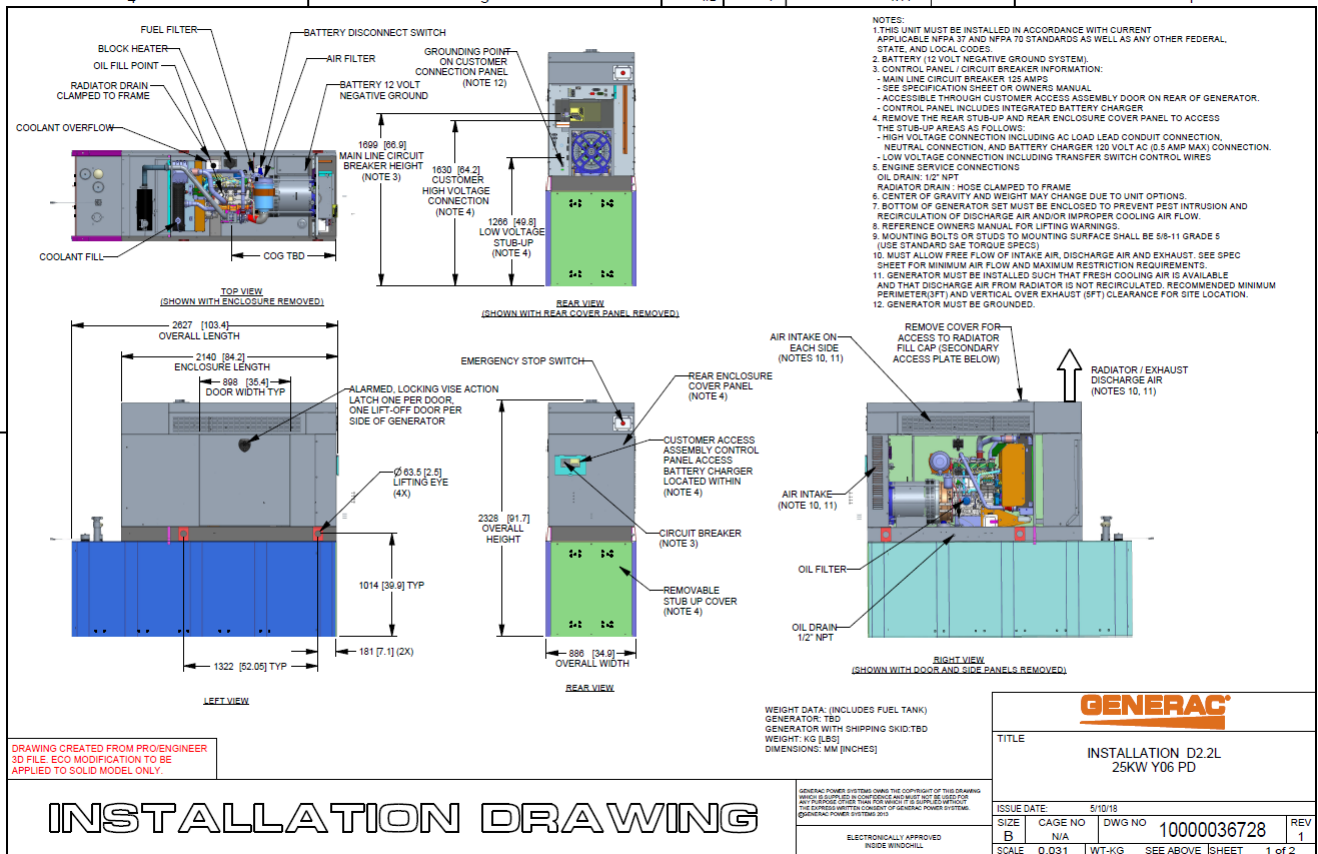
The RD025 will come with a RXSC200A3 and an Evollution controller. The sites considered for the RD025 should not have a DC power consumption above 20kW

RXSC200A3 [Link](#)

RXSC200A3 install drawing [Link](#)

Evolution controller spec sheet [Link](#)

RD025 installation drawings and supporting documentation [Link](#)

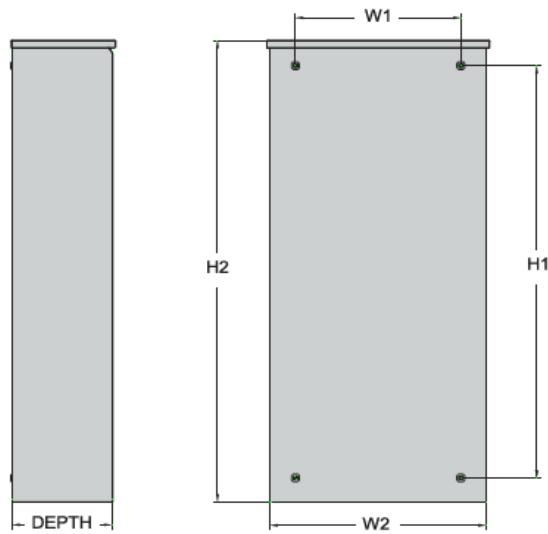


3.2 RXSC200A3 Automatic Transfer Switch

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

RXSC200A3 Dimensions

Model		RXSC200A3
Height (in./mm)	H1	17.24/437.9
	H2	20/508
Width (in./mm)	W1	12.5/317.5
	W2	14.6/370.8
Depth (in./mm)		7.09/180.1
Weight (lbs./kilos)		20/9.07



4 Architecture/Alarms

4.1 Interfaces and Alarming

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

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

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

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

Auxiliary Contact

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

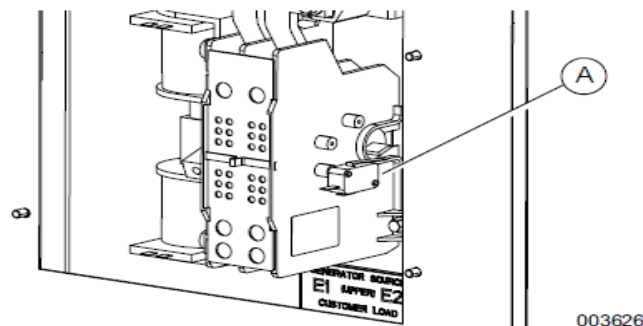


Figure 3-4. Auxiliary Contact

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

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

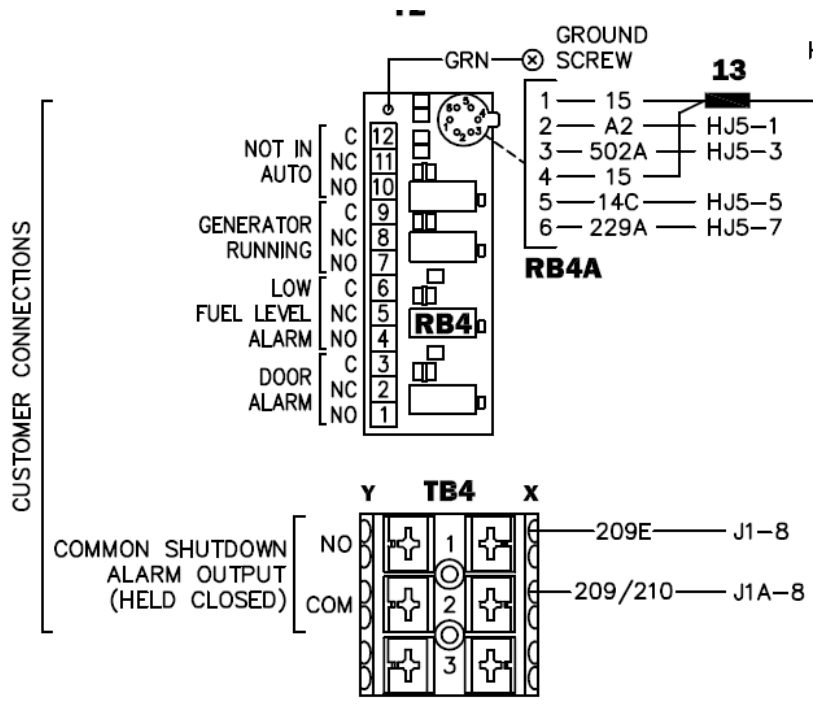
CAUTION

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

(000134a)

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

Customer Connections Inside the RD025



Ericsson UTOVP- ALM8EXP



UTOVP-ALM8EXP	OVP Expansion Kit for 8 External Alarms	Qty
Product no	Denomination	
UTOVP-ALM8EXP	OVP Expansion Kit for 8 External Alarms	1
NFD30234/08	OVERVOLTAGE ARRESTER/OVP-ALM 8	1
RPM777143/01200	CABLE WITH CONNECTOR/SIGNAL CABLE	2

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

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

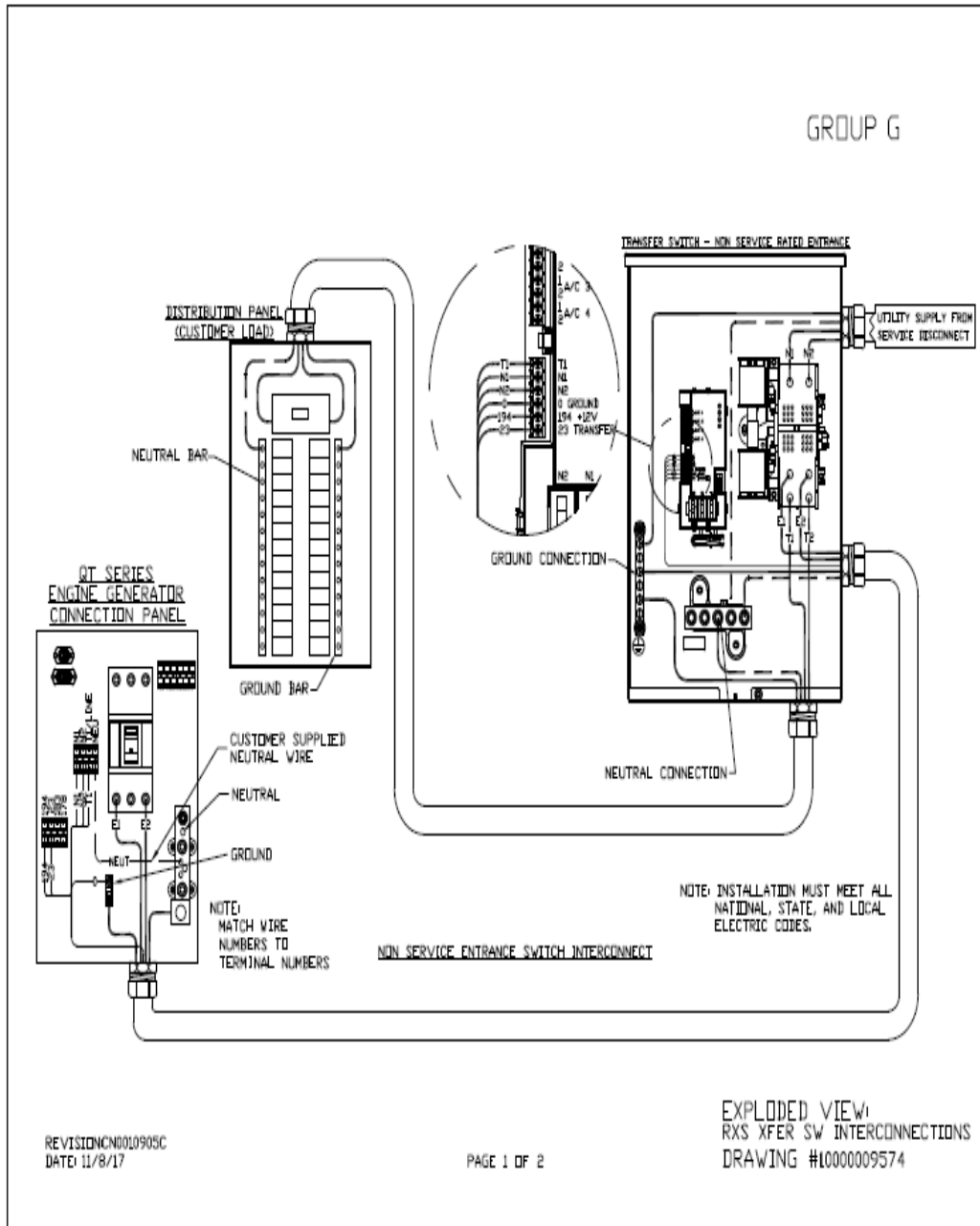
5 Regulatory Requirements

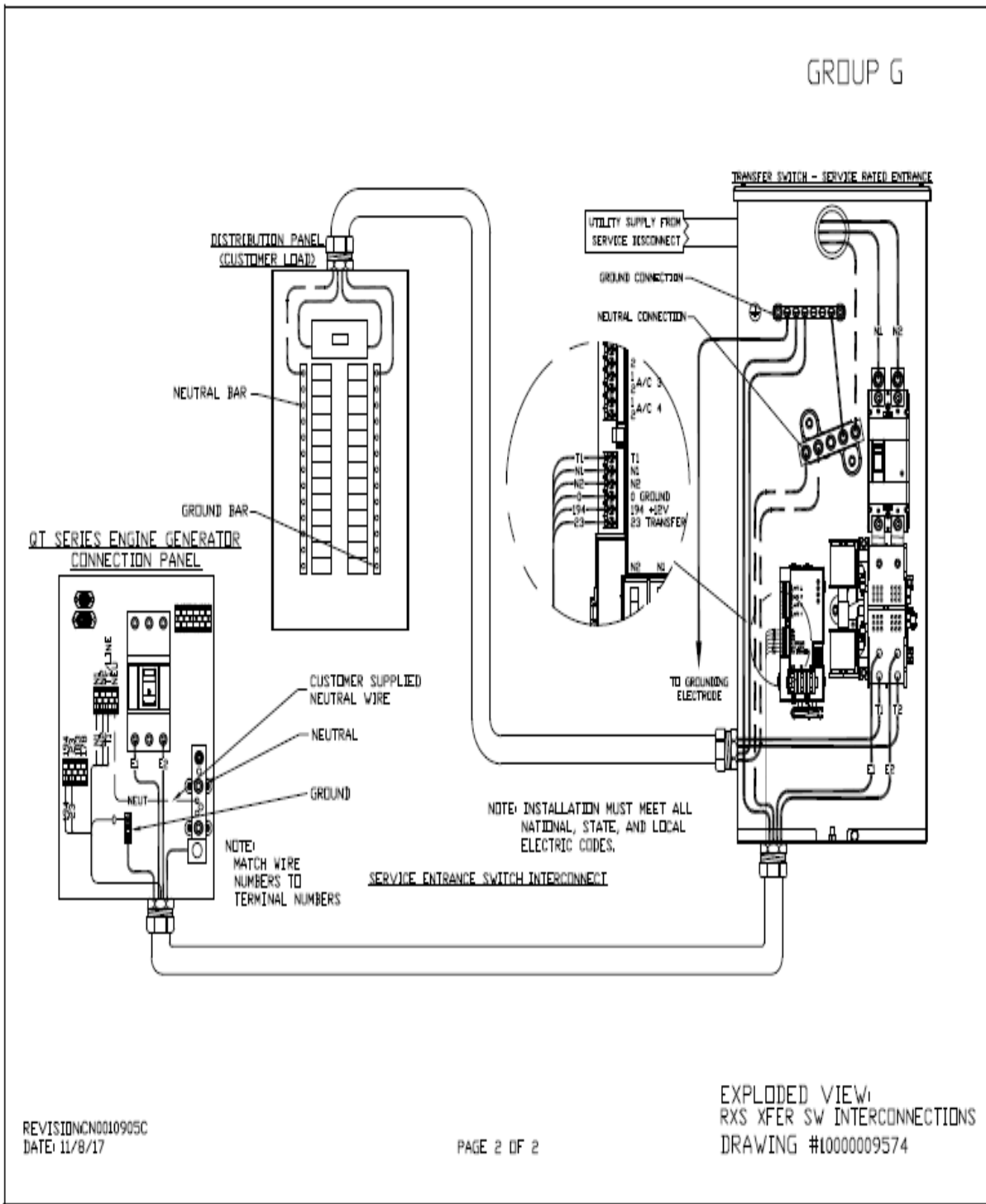
Level 2 Acoustic Enclosure provides a noise level of 67.5dBA. It is EPA certified and meets NFPA 99 and 110 requirements(NFPA National Fire Protection Association). The RD025 generator engines is a tier 4 engine and meets the EPA final standards.

6 Configuration/Diagrams

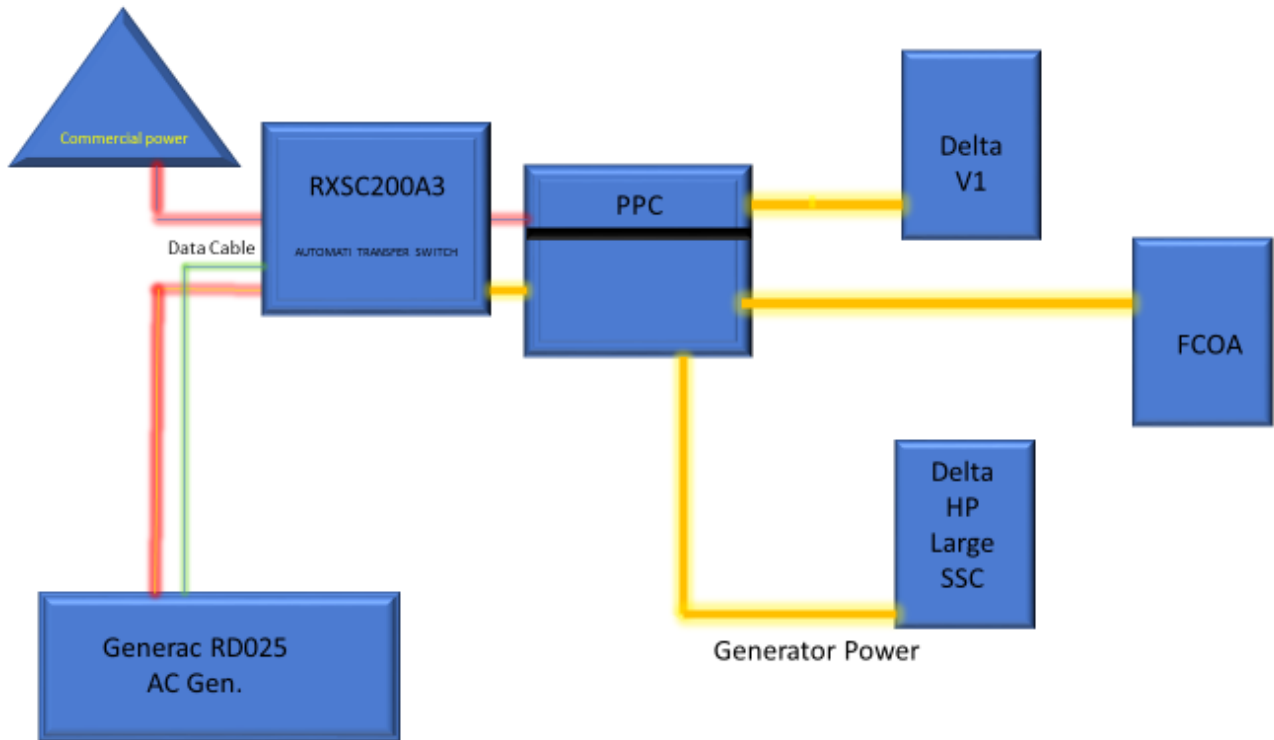
The physical configuration of the Generator and the RXSC200A3 is, ATS before the PPC to ensure overcurrent protection when commercial power is restored. The RD025 and the RXSC200A3 has to be wired to Commercial AC power.

Commercial Power Connection Points
On The RXSC200A3





Compound Diagram:



7 Maintenance

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

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

- Check engine mounts and support. Tighten fasteners.
- Check all the engine hoses and clamps for proper fit, and any signs of cracking and fatigue from wear.
- Inspect all belts for signs of cracking and fatigue from wear and adjust for proper tension.
- Inspect the exhaust system for leaks, burns and wet stacking. Drain exhaust line and tighten any clamps and flange bolts.
- Inspect silencer and plumbing for leaks, cracks or any other signs of wear.
- Inspect the system for fuel, oil and coolant leaks and signs of corrosion.
- Replace water separator.
- Replace water filter/ conditioner.
- Check Anti-Freeze (Spector-Analysis).
- Check coolant level and add, if needed.
- Inspect radiator mounting for signs or wear and cracking.
- Inspect/ clean air filter and change per manufacturer specifications.
- Inspect air intakes and outlets and tighten clamps and brackets, if applicable.
- Replace fuel filter.
- Inspect the carburetor fuel injection system, fuel injection pump and choke, if equipped. Adjust to manufacturers specifications.
- Change engine oil, oil filter and record the date on the filter casing.
- Check engine heater operation, if equipped.
- Check and adjust the battery charger operations, and charge rate within the manufacturer's recommended operating specifications.

- Inspect the battery housing, hardware connections, and cables for corrosion and wear.
- Check the battery electrolyte levels and specific gravity levels.
- Load test generator battery.
- Check, adjust and record generator output voltage, as necessary.
- Check and record the alternator charge rate.
- During inspection run the generator for 30 minutes under load. During this time, and after the engine is at full operational speed and has reached engine operating temperature; determine and record the condition of all inspection points: oil pressure, water/ coolant temperature, Fuel pressure, generator gauge, indicator operations, generator battery.
- Check the engine timing and adjust to manufacturers specifications, if necessary.
- Inspect, adjust and record governor and frequency, if necessary.
- Verify that the low fuel alarm is operational and configured correctly to trigger when the fuel tank reaches 50% of fuel tank capacity.

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