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 57 Cook Drive, Montville, CT, 06370 (AKA 57 Cook Street) Latitude: 41.4748874700 Longitude: -72.1055295000 T-Mobile Site#: CTNL023C - Hardening

Dear Ms. Bachman:

T-Mobile currently maintains nine (9) antennas at the 188-foot and 190-foot level of the existing 190-foot lattice tower at 57 Cook Drive, Montville, CT. The 190-foot lattice tower is owned and operated by Wireless Solutions, LLC. The property is owned by Robert and Karen Kingsborough. 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 Town of Montville Planning and Zoning Commission on January 14, 1997. This approval did not come with conditions that would be violated by the modification. A copy of this original approval is enclosed.

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.SA. § 16-SOj-73, a copy of this letter is being sent to Mayor - Ronald K. Mc Daniel, Elected Official, and Marcia Vlaun, Montville Town Planner.

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.

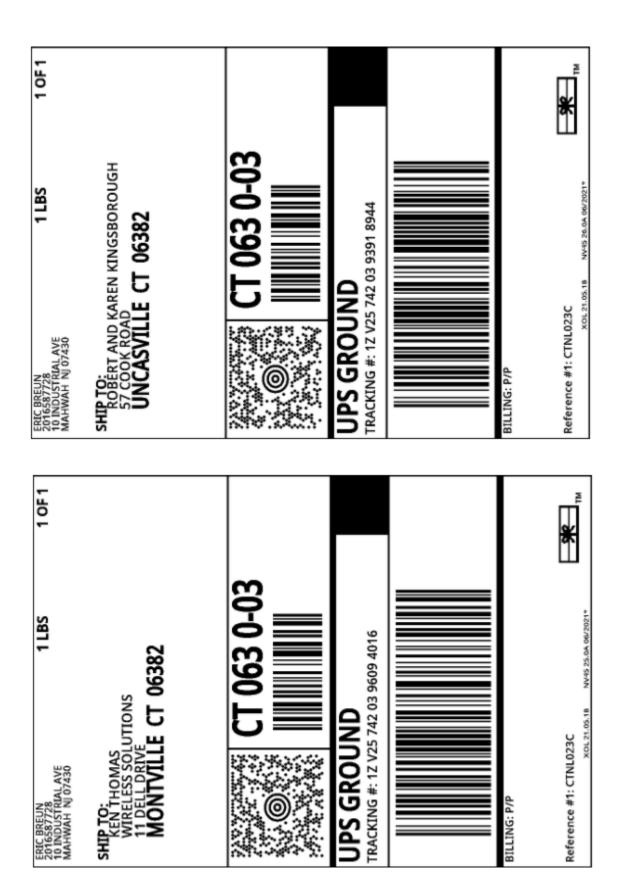
For the foregoing reasons, T-Mobile respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

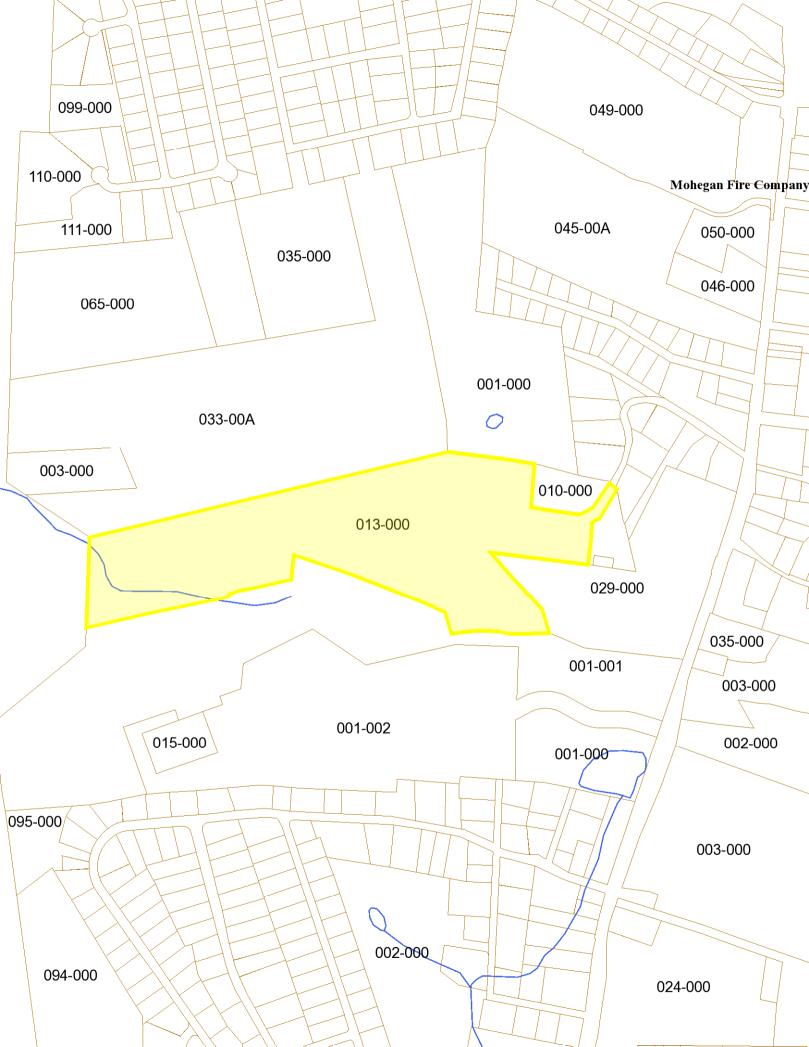
Sincerely,

Eric Breun Transcend Wireless Cell: 201-658-7728 Email: <u>ebreun@transcendwireless.com</u>

Attachments cc: Ronald K. McDaniel - Mayor of Montville Marcia A. Vlaun - Montville Town Planner Wireless Solutions - Tower Owner Robert and Karen Kingsborough - Property Owner









Property Card: 57 COOK DR Town of Montville, CT

Parcel Information

Location:	57 COOK DR	Property Use:	Residential	Primary Use:	Residential
Unique ID:	K0555700	Map Block Lot:	040-013-000	Acres:	45.3
		Zone:	C-3	Volume / Page:	0546/0511
		Sale Date:	03/04/2010	Sale Price:	\$0

Value Information

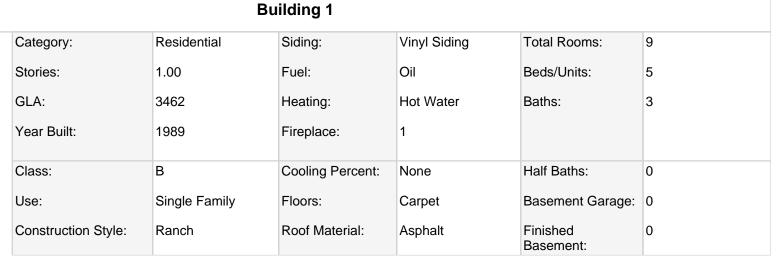
	Appraised Value	Assessed Value
Land	164880	49760
Buildings	306943	214860
Detached Outbuildings	696814	487770
Total	1168637	752390

Owner's Information

Owner's Data

KINGSBOROUGH ROBERT W & KAREN A 57 COOK RD UNCASVILLE, CT 06382







www.cai-tech.com Data shown on this report is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this report.

TEL: 848-8549 FAX: 848-2354

TOWN OF MONTVILLE PLANNING & ZONING COMMISSION

310 NORWICH-NEW LONDON TPKE. UNCASVILLE, CONNECTICUT 06382-2599

LEGAL NOTICE

The Montville Planning and Zoning Commission at its meeting held on January 14, 1997, took the following action:

APPROVED the site plan submitted by **Wireless Solutions, LLC and Robert W. Kingsborough** to install a 180' radio tower and antenna for wireless communication purposes on property located at 57 Cook Drive, Montville, Ct. Shown on Assessor's Map 98, Lot 2.

APPROVED modifications to approved subdivision plans of **Lochdale Estates Subdivision** to eliminate the requirement that dry sewers be installed in Phase II and Phase III.

The application of Christy's Market, Inc./Jack D'Elia was withdrawn.

Maps and documentation concerning the above applications are on file in the office of the Town Planner, Town Hall Annex, Montville, Ct.

Dated at Montville, Ct. this 15th day of January, 1997.

MONTVILLE PLANNING AND ZONING COMMISSION Gregory Majewski, Chairman

PUBLISH IN THE NEW LONDON DAY January 17, 1997.

PLEASE REFERENCE PURCHASE ORDER 6100 F 1 ON INVOICE.

GENERAL NOTES

1.	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 CONSTRUCTON, 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.

- 10. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
- 11. 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.
- 12. 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.
- 13. 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.
- 14. 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 RFVIFW.
- 15. 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.
- 16. 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.
- 17. 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.
- 18. 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.
- 19. 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.

- Mobile-SITE NAME: CT023/MONTVILLE COOKST MP SITE ID: CTNL023C 57 COOK ST MONTVILLE, CT 06370

PROJECT SUMMARY

1. THE PROPOSED SCOPE OF WORK CONSISTS OF A MODIFICATION TO THE EXISTING UNMANNED TELECOMMUNICATIONS FACILITY INCLUDING THE FOLLOWING:

A. INSTALL (1) NEW 25 KW DIESEL FUELED BACK-UP GENERATOR ON A PROPOSED 10' x 4' CONCRETE PAD WITHIN THE EXISTING COMPOUND

B. INSTALL (1) 200A AUTOMATIC TRANSFER SWITCH ON A PROPOSED UTILITY FRAME

PROJECT INFORMATION

SITE NAME: SITE ID: SITE ADDRESS: APPLICANT:

CONTACT PERSON:

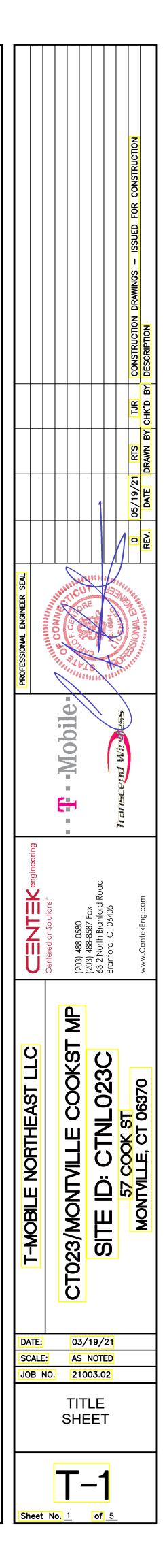
ENGINEER OF RECORD:

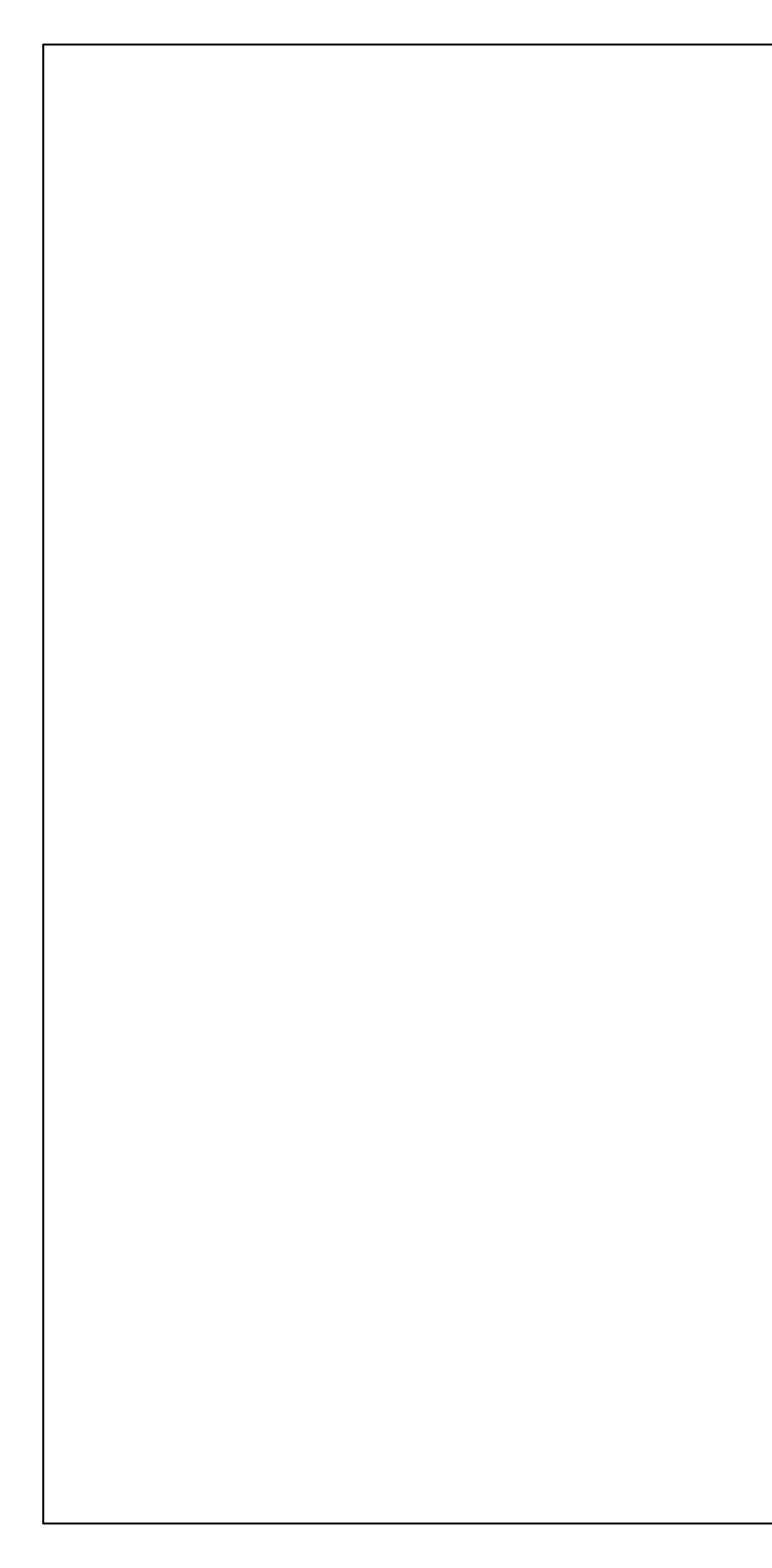
PROJECT COORDINATES:

CT023/MONTVILLE COOKST MP CTNL023C 57 COOK ST MONTVILLE, CT 06370 T-MOBILE NORTHEAST, LLC 35 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002 DAN REID (PROJECT MANAGER) TRANSCEND WIRELESS, LLC (203) 592-8291 CENTEK ENGINEERING, INC. 63–2 NORTH BRANFORD RD. BRANFORD, CT 06405 CARLO F. CENTORE, PE (203) 488–0580 EXT. 122 LATITUDE: 41°-28'-29.82" N LONGITUDE: 72°-06'-18.14" W

GROUND ELEVATION: 362'± 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 PLAN AND EQUIPMENT PLAN	0				
C-2	TYPICAL EQUIPMENT DETAILS	0				
E-1	TYPICAL ELECTRICAL DETAILS	0				





NOTES AND SPECIFICATIONS

DESIGN BASIS:

GOVERNING CODE: 2015 INTERNATIONAL BUILDING (IBC) AS MODIFIED BY THE 2018 CONNECTICUT STATE BUILDING CODE.

1. DESIGN CRITERIA:

- RISK CATEGORY II (BASED ON IBC TABLE 1604.5)
- NOMINAL DESIGN SPEED (OTHER STRUCTURE): 105 MPH (Vasd) (EXPOSURE B/ IMPORTANCE FACTOR 1.0 BASED ON ASCE 7-10).

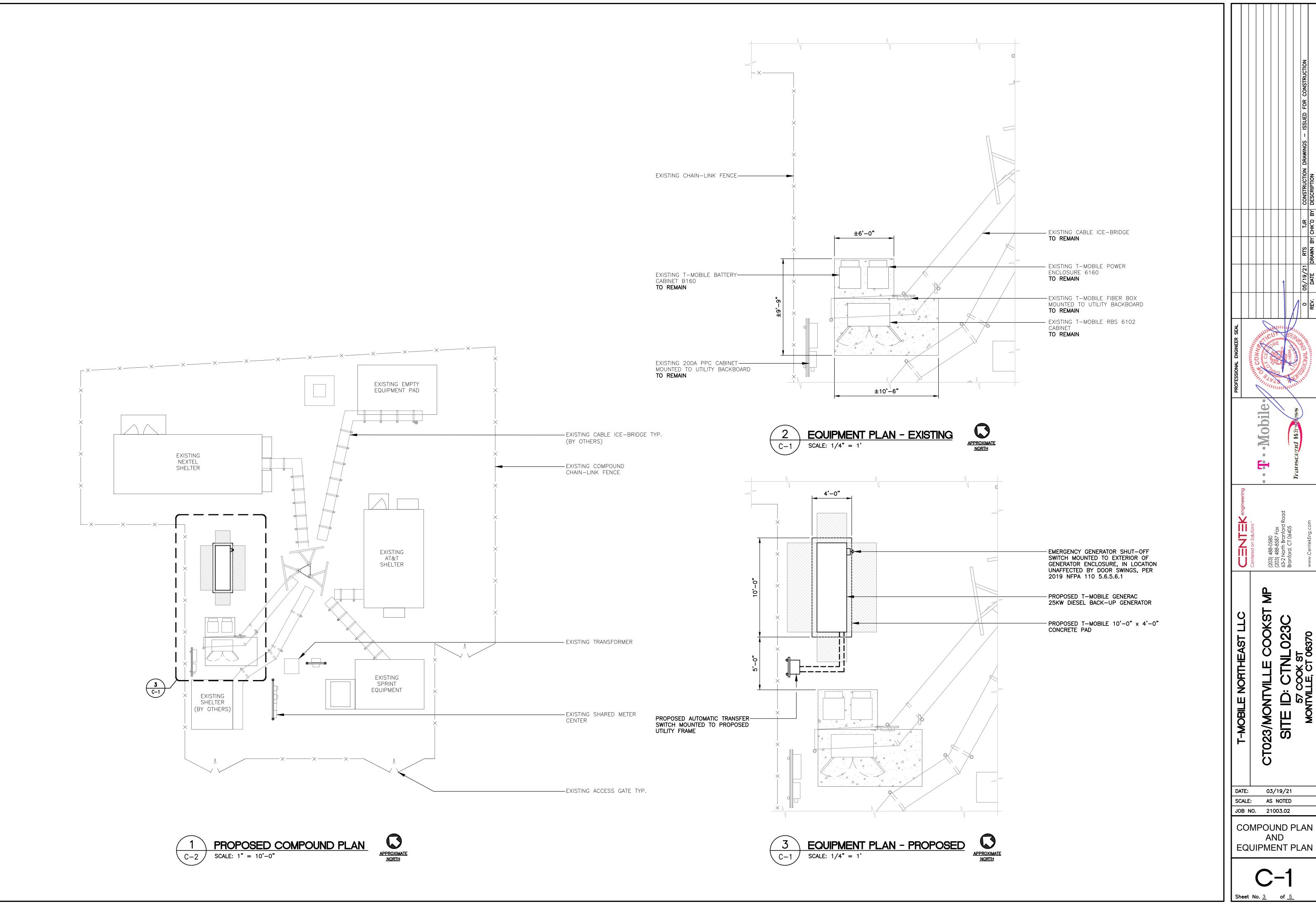
<u>SITE NOTES</u>

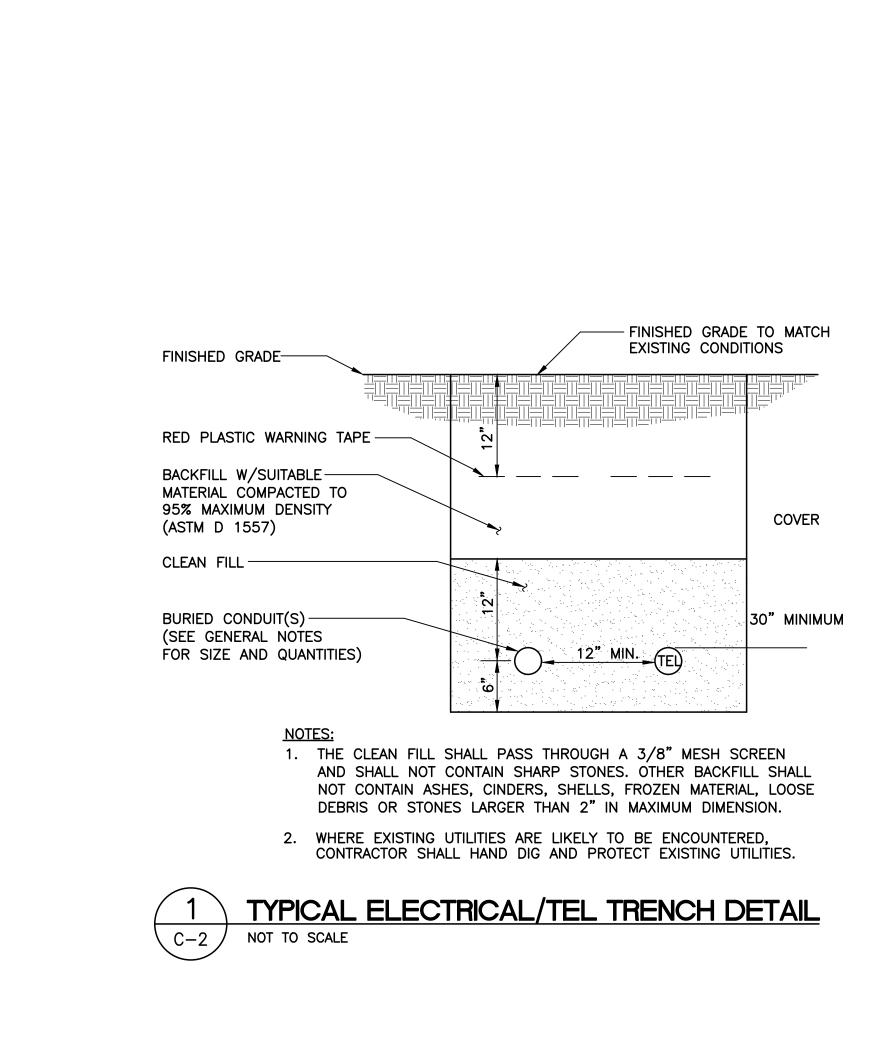
- 1. THE CONTRACTOR SHALL CALL UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- ACTIVE EXISTING UTILITIES, WHERE ENCOUNTERED IN THE WORK, SHALL PROTECTED AT ALL TIMES. THE ENGINEER SHALL BE NOTIFIED IMMEDIA PRIOR TO PROCEEDING, SHOULD ANY UNCOVERED EXISTING UTILITY PRECLUDE COMPLETION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 3. THE AREAS OF THE COMPOUND DISTURBED BY THE WORK SHALL BE RETURNED TO THEIR ORIGINAL CONDITION.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIM CONTROL.
- IF ANY FIELD CONDITIONS EXIST WHICH PRECLUDE COMPLIANCE WITH DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEE AND SHALL PROCEED WITH AFFECTED WORK AFTER CONFLICT IS SATISFACTORILY RESOLVED.

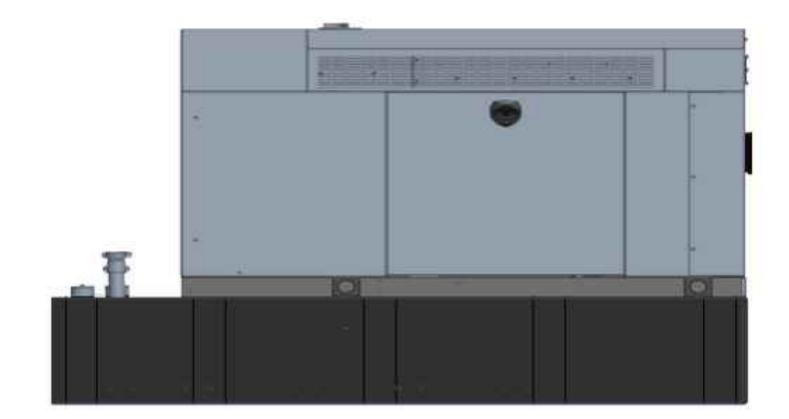
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	15.	THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES, AND EXISTING CONDITIONS AT THE SITE, PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA.			(203) 48	63-2 Nor Branforc	www.Ce	
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	19.	CONTRACTOR SHALL COMPLY WITH 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.			TVILL	$\mathbf{\overline{O}}$		
	20.	THE COUNTY/CITY/TOWN WILL MAKE PERIODIC FIELD OBSERVATION AND INSPECTIONS TO MONITOR THE INSTALLATION, MATERIALS, WORKMANSHIP AND EQUIPMENT INCORPORATED INTO THE PROJECT TO ENSURE COMPLIANCE WITH THE DESIGN PLANS, SPECIFICATIONS, CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS.		T-MOBILE	23/MONTVILLE	SITE ID	22 (
	21.	THE COUNTY/CITY/TOWN MUST BE NOTIFIED (2) WORKING DAYS PRIOR TO CONCEALMENT/BURIAL OF ANY SYSTEM OR MATERIAL THAT WILL PREVENT THE DIRECT INSPECTION OF MATERIALS, METHODS OR WORKMANSHIP. EXAMPLES OF THESE PROCESSES ARE BACKFILLING A GROUND RING OR TOWER FOUNDATION, POURING TOWER FOUNDATIONS, BURYING GROUND RODS, PLATES OR GRIDS, ETC. THE CONTRACTOR MAY PROCEED WITH THE SCHEDULED PROCESS (2) WORKING DAYS AFTER PROVIDING NOTICE UNLESS NOTIFIED OTHERWISE BY THE COUNTY/CITY/TOWN.			CTO	19/21		
	22.	PREVAILING WAGE RATES MAY APPLY TO THIS PROJECT. REFER TO ARTICLE 8 OF THE NEW YORK STATE DEPARTMENT OF LABOR FOR		SCALE:	AS I	NOTED 03.02		_
		PREVAILING WAGE SCHEDULES/UPDATES ON A COUNTY-BY COUNTY BASIS. AN ORIGINAL WAGE SCHEDULE MUST BE REQUESTED FROM THE BUREAU OF PUBLIC WORK.	$\left \right $	GEN			TES	-
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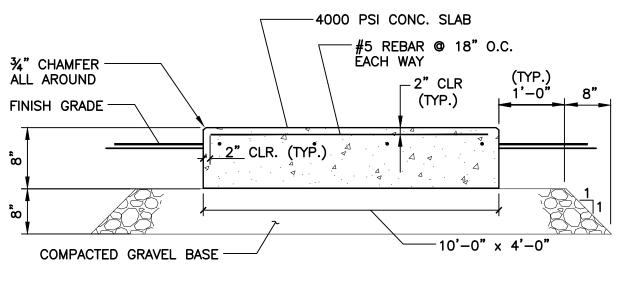
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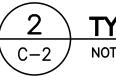
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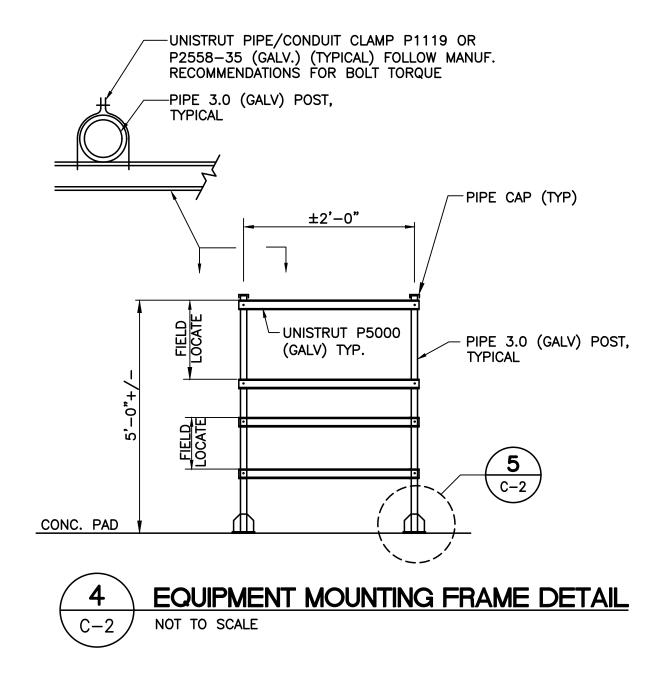


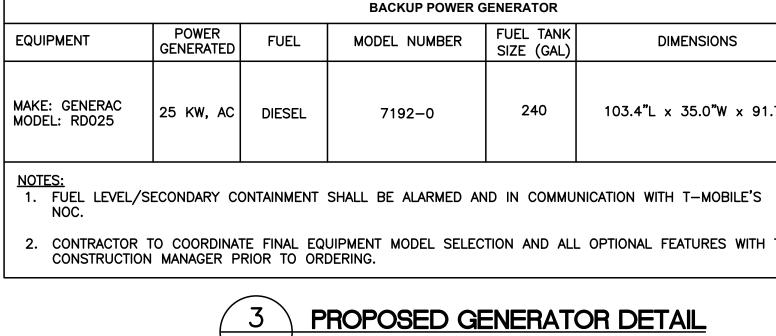


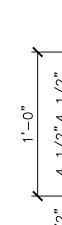




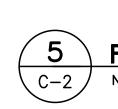
TYPICAL CONCRETE PAD DETAIL NOT TO SCALE







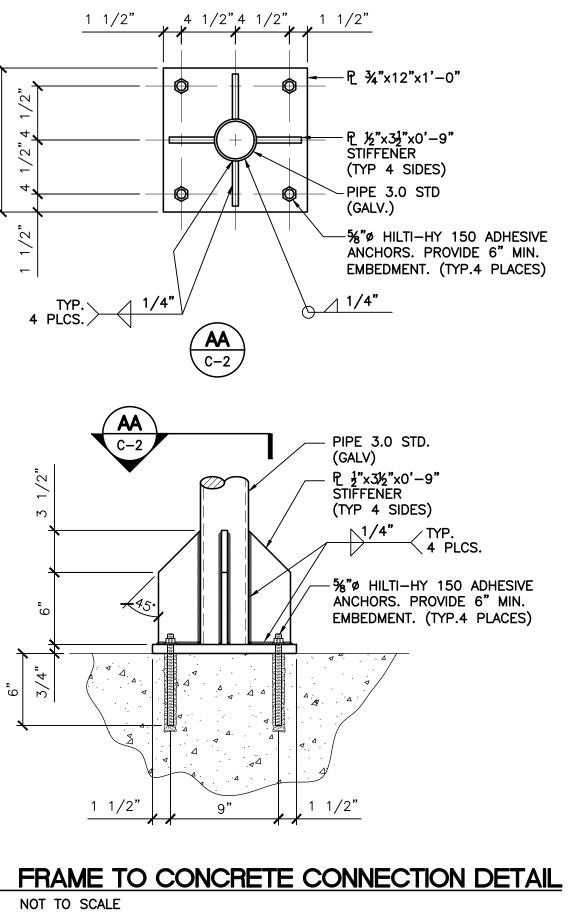
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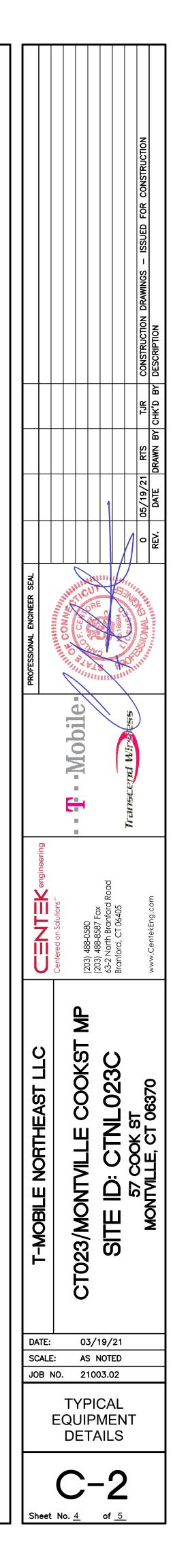


	BACKUP POWER G	ENERATOR		
JEL	MODEL NUMBER	FUEL TANK SIZE (GAL)	DIMENSIONS	WEIGHT
SEL	7192–0	240	103.4"L x 35.0"W x 91.7"H	2123 LBS.

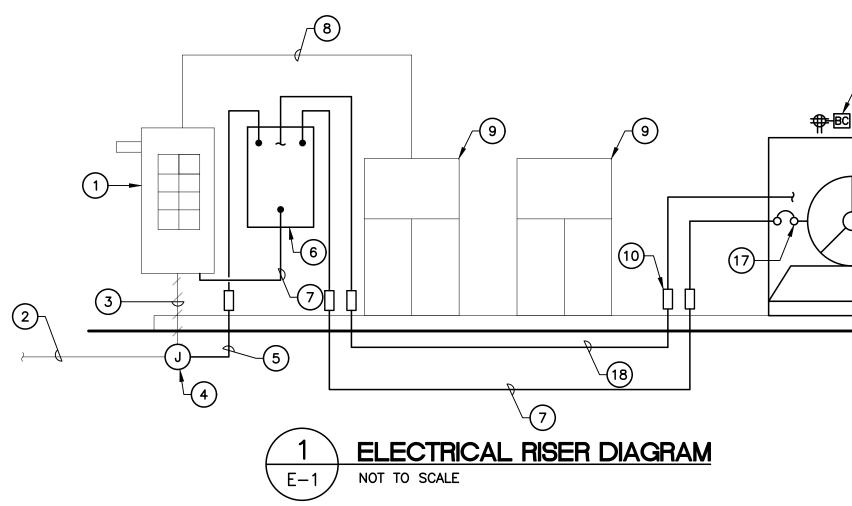
2. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION AND ALL OPTIONAL FEATURES WITH T-MOBILE'S CONSTRUCTION MANAGER PRIOR TO ORDERING.

PROPOSED GENERATOR DETAIL SCALE: NOT TO SCALE





RISER DIAGRAM NOTES	RISER DIAGRAM NOTES
 EXISTING PPC CABINET TO REMAIN. EXISTING POWER CONDUIT AND CONDUCTORS PREVIOUSLY SERVING EXISTING PANEL. SECTION OF CONDUIT AND CONDUCTORS TO BE REMOVED. JUNCTION BOX SIZED PER NEC. EXTEND EXISTING CONDUITS AND CONDUCTORS TO NEW ATS. NEW 200A, 2 SOURCE AUTOMATIC TRANSFER SWITCH. (3) #3/0 AWG, (1) #6 AWG GROUND, 2-1/2" CONDUIT. EXISTING CONDUITS AND CONDUCTORS TO REMAIN EXISTING CONDUITS AND CONDUCTORS TO REMAIN EXISTING EQUIPMENT CABINETS TO REMAIN. EXPANSION COUPLING TYPICAL. 	 (1) REMOTE GENERATOR SHUT OFF SWITCH IN OF GENERATOR ENCLOSURE PER 2019 N (12) 3/4" CONDUIT AND CONDUCTORS REQUIR GENERATOR SHUT OFF SWITCH. (13) GENERATOR BATTERY CHARGER AND CONNOUTLET TO BE MOUNTED IN WEATHERPRO OUTLET TO BE MOUNTED IN WEATHERPRO (14) GENERATOR BLOCK HEATER WIRED TO EX (15) EMERGENCY BACK UP GENERATOR. (16) GENERATOR GROUNDING PER NEC AND M GROUNDING SYSTEM. (MINIMUM OF (1) # (17) GENERATOR OUTPUT CIRCUIT BREAKER. (18) 1" CONDUIT FOR GENERATOR CONTROL A
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I IN BREAK GLASS ENCLOSURE MOUNTED TO EXTERIOR NFPA 110 5.6.5.6.1. UIRED FOR PROPER OPERATION OF EMERGENCY

INVENIENCE GFCI OUTLET WIRED TO EXISTING PANEL. PROOF ENCLOSURE. EXISTING PANEL SERVING.

MANUFACTURER'S REQUIREMENTS. BOND TO EXISTING) #2 AWG GROUND)

AND SIGNAL WIRING.

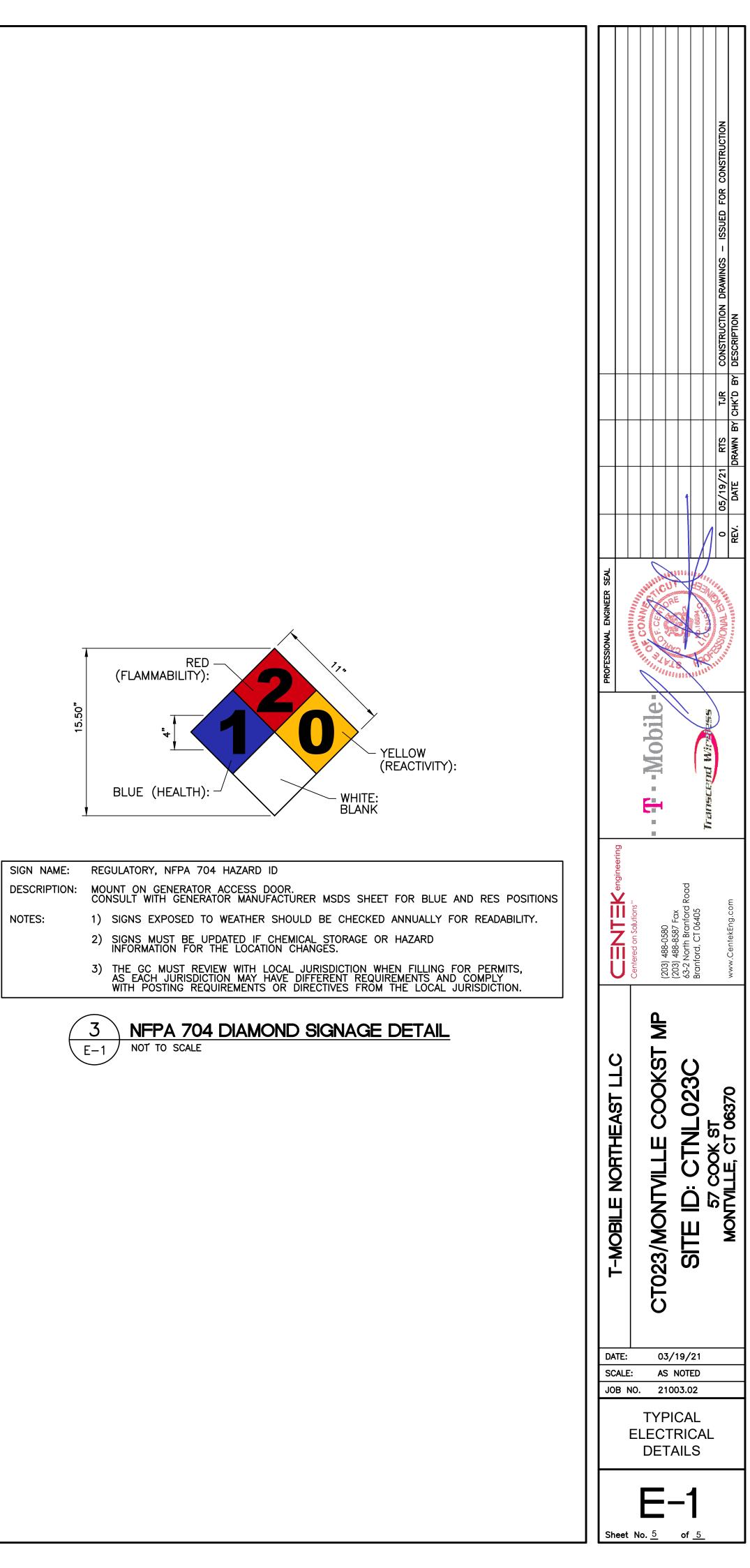


/-(15) (12) -*d*----*i*

	AUTOMATIC TRANSFER SWITCH					
EQUIPMENT	PHASE	VOLTAGE	ENCLOSURE	AMP	DIMENSIONS	
MAKE: GENERAC MODEL: RXSC200A3	1-PHASE	120/240	NEMA-3R	200	17.3"L x 12.5"W	



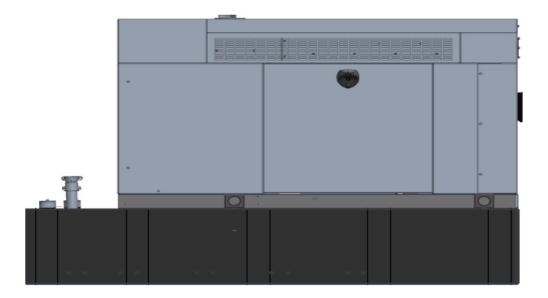
AUTOMATIC TRANSFER SWITCH DETAIL NOT TO SCALE





Generac RD025 Design Document

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



The following are responsible for this project document:

Kevin Smith

SR. Engineer (770) 256-3594

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

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Table of Contents

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



1 Introduction / Project Summary

1.1 Purpose of Project

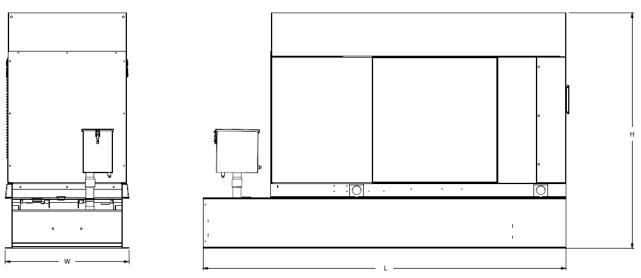
T-Mobile's nationwide cell site hardening plan is providing a refuellable backup power system capable of powering a site for a minimum of 48 hours before refueling is required. The purpose of this project is to give T-Mobile customers reliable service during power outages and provide a sufficient layer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

1.2 Feature Description

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

1.3 Dimensions

The dimensions of a level 2 Acoustic Enclosure L x W x H in inches $103.4 \times 35 \times 91.7$. T-Mobile requires a 36-inch radius around the generator that will cover the 18'' door swing on the generator.



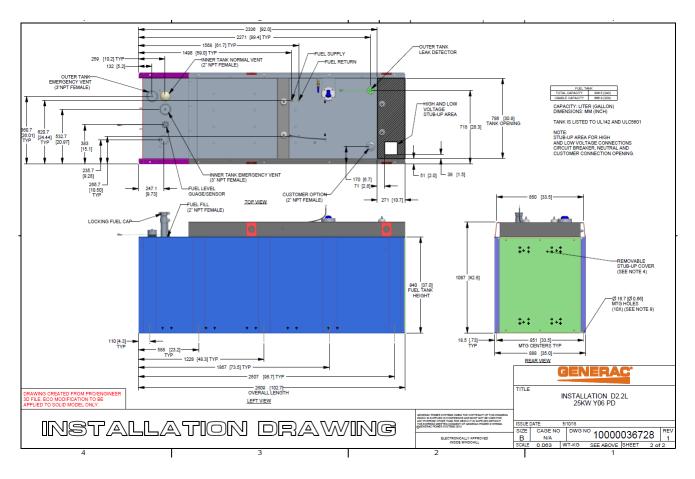
Weights and Dimensions

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

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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.

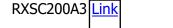


3 RXSC200A3 ATS/ Controller

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

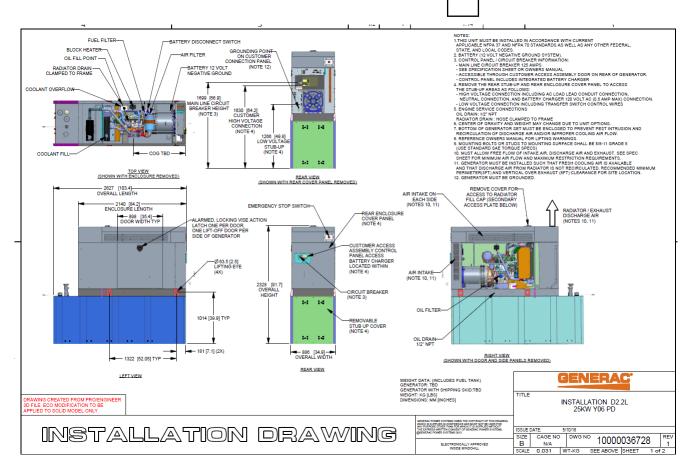




RXSC200A3 install drawing Link

Evollution controller spec sheet Link

RD025 installation drawings and supporting documentation Link



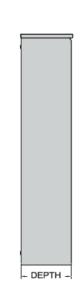
3.2 RXSC200A3 Automatic Transfer Switch

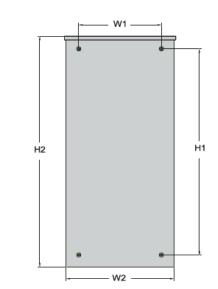
The RXSC200A3 (Automatic Transfer Switch) is equiped with the following functions. Utility voltage drop-out <65%. Timer to Generator start: 10 second factory set, adjustable between 2-1500 seconds. Engine Warm up delay: 5 seconds. Standby Voltage Sensor: 65% for 5 seconds. Utility Voltage Pickup >80%.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

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RXSC200A3 Dimensions

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







4 Architecture/Alarms

4.1 Interfaces and Alarming

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

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

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

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

Auxiliary Contact

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

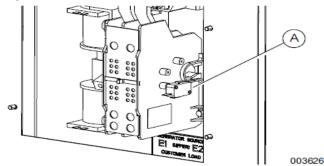


Figure 3-4. Auxiliary Contact

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

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

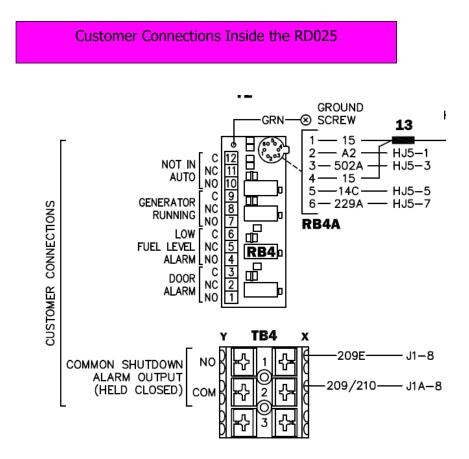
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Equipment damage. Exceeding rated voltage and current will damage the auxiliary contacts. Verify that voltage and current are within specification before energizing this equipment. (000134a)

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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.



Ericsson UTOVP- ALM8EXP



UTOVP-ALM8EXPOVP Expansion Kit for 8 External AlarmsQtyProduct noDenominationUTOVP-ALM8EXPOVP Expansion Kit for 8 External Alarms1NFD30234/08OVERVOLTAGE ARRESTER/OVP-ALM 81RPM777143/01200CABLE WITH CONNECTOR/SIGNAL CABLE2



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

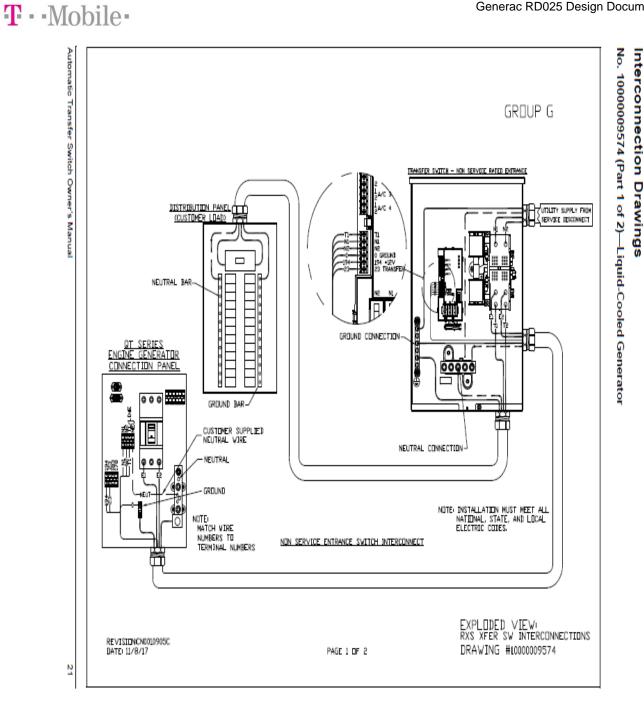
Level 2 Acoustic Enclosure provides a noise level of 67.5dBA. It is EPA certified and meets NFPA 99 and 110 requirements(NFPA National Fire Protection Association). The RD025 generator engines is a tier 4 engine and meets the EPA final standards.

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.

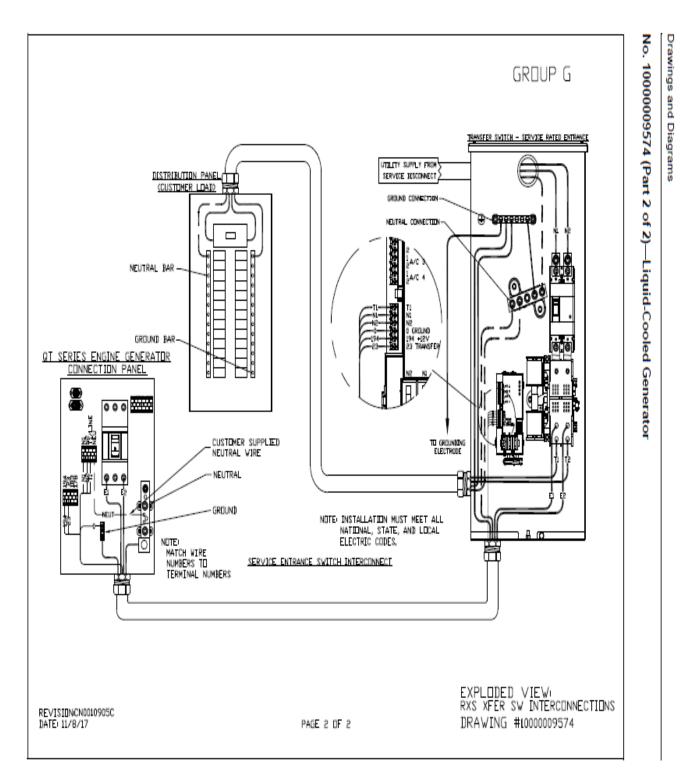


Commercial Power Connection Points On The RXSC200A3



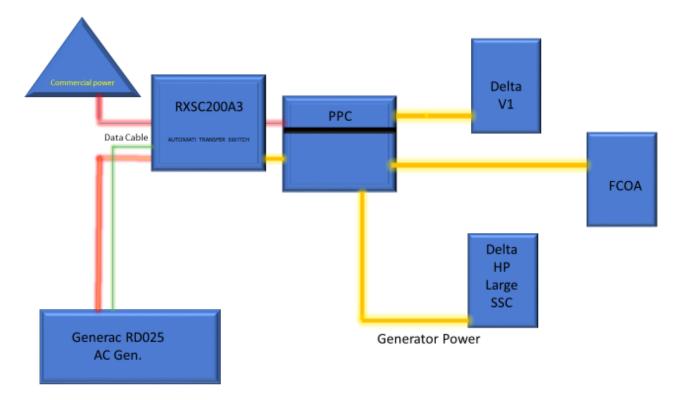
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Compound Diagram:



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7 Maintenance

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

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

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

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- 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.