

0 INDUSTRIAL AVE,  
SUITE 3  
LAHWAH NJ 07430

PHONE: 201.684.0055  
FAX: 201.684.0066



---

October 1, 2021

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

RE: Notice of Exempt Modification  
259 Commerce Street, East Haven, CT 06512  
Latitude: 41.256012  
Longitude: -72.876021  
T-Mobile Site#: CT11623B - Hardening

Dear Ms. Bachman:

T-Mobile currently maintains six (6) antennas at the 47-foot level of the existing 58-foot monopole at 259 Commerce Street in East Haven, CT. The 58-foot monopole is owned and operated by Crown Castle. The property is owned by Stephen J. Viglione. T-Mobile now intends to add a 25Kw generator to a proposed 10'x4' concrete pad next to the existing 58-foot monopole.

**Planned Modifications:**

**Ground:**

Install New:

- (1) Generac RD025 25 Kw AC Diesel Generator - 240 gallon double walled self-contained tank with fuel sensor.
- Requires (2) 12-minute run cycles by-weekly.
- (1) 10' x 4' Concrete Pad

This facility was approved by the Siting Council in Petition 634 on July 8, 2003. No conditions were attached that would be impacted by this modification.

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 Carfora, Elected Official, and Joseph Budrow, Zoning Enforcement Officer, as well as the tower and property 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](mailto:ebreun@transcendwireless.com)

Attachments  
cc: Joseph Carfora - Mayor of East Haven  
Joseph Budrow - Zoning Enforcement Officer  
Crown Castle - Tower Owner  
Stephen Viglione - Property Owner

ERIC BREUN  
2016587728  
10 INDUSTRIAL AVE  
MAHWAH NJ 07430

1 OF 1  
1 LBS

SHIP TO:  
STEPHEN VIGLIONE  
259 COMMERCE STREET  
EAST HAVEN CT 06512

SHIP TO:  
JOSEPH CARFORA  
250 MAIN STREET  
EAST HAVEN CT 06512

**CT 064 7-01**

**CT 064 7-01**



**UPS GROUND**

TRACKING #: 1Z V25 742 03 9116 8562



BILLING: P/P

Reference #1: CT11623B

XOL 21.09.06 NV-55 39.6A 09/09/2021\*



1 OF 1  
1 LBS

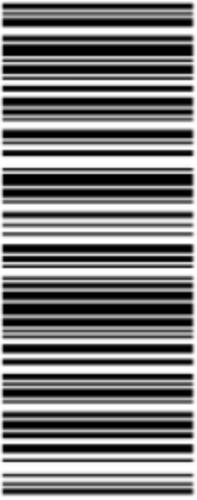
SHIP TO:  
JOSEPH CARFORA  
250 MAIN STREET  
EAST HAVEN CT 06512

**CT 064 7-01**



**UPS GROUND**

TRACKING #: 1Z V25 742 03 9974 5629



BILLING: P/P

Reference #1: CT11623B

XOL 21.09.06 NV-45 40.6A 09/09/2021\*



ERIC BREUN  
2016587728  
10 INDUSTRIAL AVE  
MAHWAH NJ 07430

1 OF 1  
1 LBS

SHIP TO:  
CROWN CASTLE  
2000 CORPORATE DRIVE  
CANONSBURG PA 15317

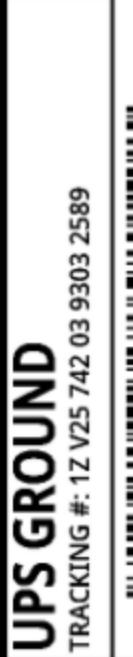
SHIP TO:  
JOSEPH BUDROW  
250 MAIN STREET  
EAST HAVEN CT 06512



**PA 153 0-10**

**UPS GROUND**

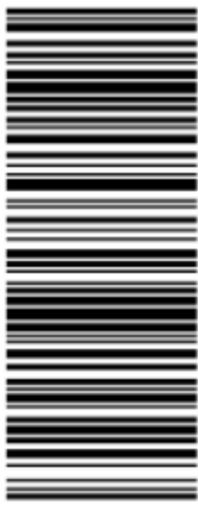
TRACKING #: 1Z V25 742 03 9303 2589



**CT 064 7-01**

**UPS GROUND**

TRACKING #: 1Z V25 742 03 9359 8577



BILLING: P/P

Reference #1: CT11623B

XOL 21.09.06 NV-45 39 0A 09/2021\*

BILLING: P/P



**NV-45 39 0A 09/2021\***

**NV-45 39 0A 09/2021\***

ERIC BREUN  
2016587728  
10 INDUSTRIAL AVE  
MAHWAH NJ 07430

1 OF 1  
1 LBS

Hello, your package has been delivered.

**Delivery Date:** Thursday, 09/30/2021

**Delivery Time:** 10:07 AM

**Left At:** FRONT DESK

**Signed by:** THOMAS

## TRANSCEND WIRELESS

**Tracking Number:** [1ZV257420393032589](#)

CROWN CASTLE

**Ship To:** 2000 CORPORATE DRIVE  
CANONSBURG, PA 15317  
US

**Number of Packages:** 1

**UPS Service:** UPS Ground

**Package Weight:** 1.0 LBS

**Reference Number:** [CT11623B](#)

Hello, your package has been delivered.

**Delivery Date:** Wednesday, 09/29/2021

**Delivery Time:** 1:46 PM

**Left At:** RECEIVER

**Signed by:** GRAVINO

## TRANSCEND WIRELESS

**Tracking Number:** [1ZV257420399745629](#)

JOSEPH CARFORA

**Ship To:** 250 MAIN STREET  
EAST HAVEN, [CT](#) 06512  
US

**Number of Packages:** 1

**UPS Service:** UPS Ground

**Package Weight:** 1.0 LBS

**Reference Number:** [CT11623B](#)

Hello, your package has been delivered.

Delivery Date: Wednesday, 09/29/2021

Delivery Time: 1:46 PM

Left At: RECEIVER

Signed by: GRAVINO

## TRANSCEND WIRELESS

Tracking Number: [1ZV257420393598577](#)

JOSEPH BUDROW  
250 MAIN STREET  
EAST HAVEN, CT 06512  
US

Number of Packages: 1

UPS Service: UPS Ground

Package Weight: 1.0 LBS

Reference Number: CT11623B

Hello, your package has been delivered.

Delivery Date: Wednesday, 09/29/2021

Delivery Time: 10:16 AM

Left At: DOCK

Signed by: LIVVGSTON

## TRANSCEND WIRELESS

Tracking Number: [1ZV257420391168562](#)

STEPHEN VIGLIONE  
259 COMMERCE STREET  
EAST HAVEN, CT 06512  
US

Number of Packages: 1

UPS Service: UPS Ground

Package Weight: 1.0 LBS

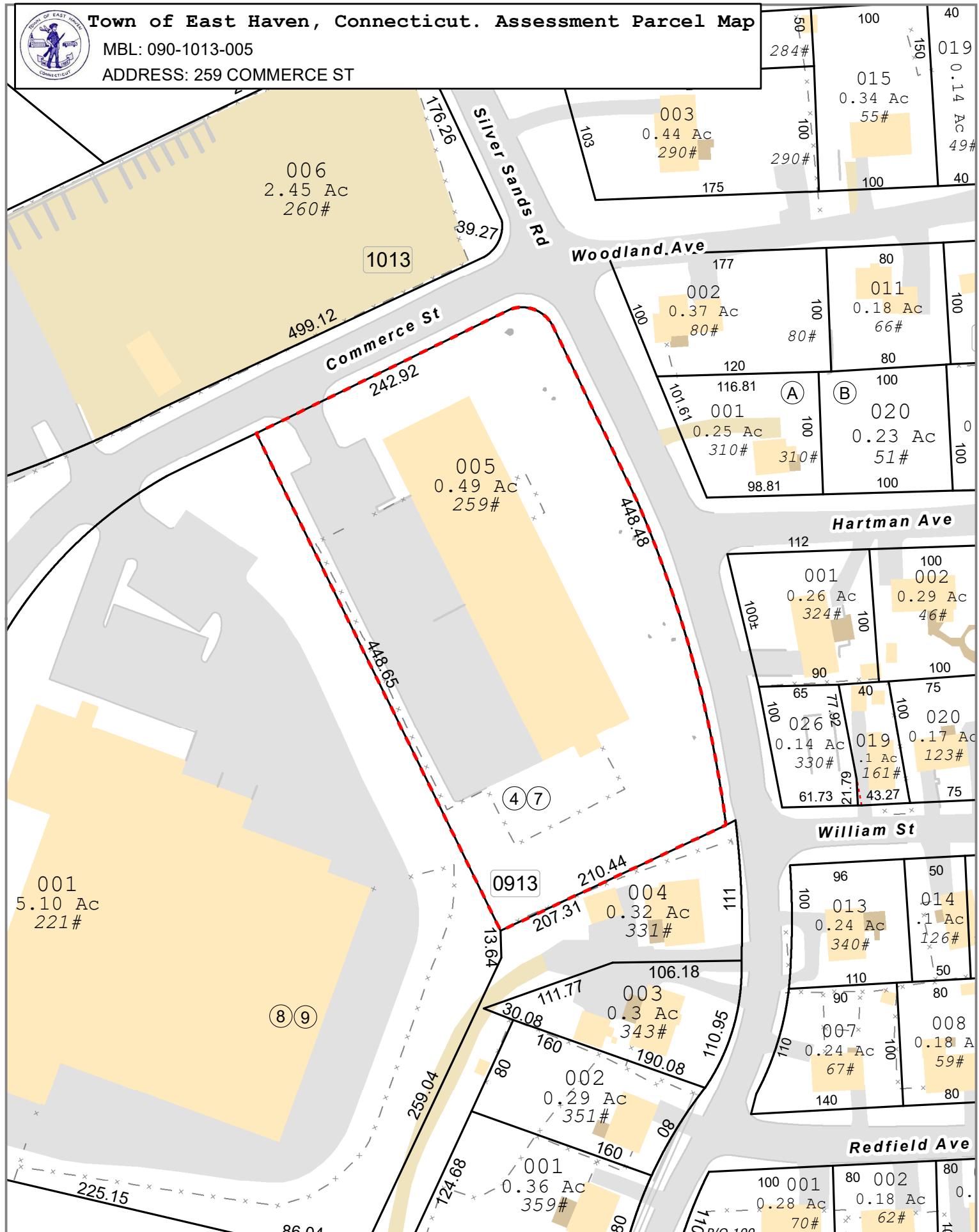
Reference Number: CT11623B



# Town of East Haven, Connecticut. Assessment Parcel Map

MBL: 090-1013-005

ADDRESS: 259 COMMERCE ST



1 inch = 100 feet

0 50 100 150 200  
| Feet

Disclaimer:  
This map is for informational purposes only. All information is subject to verification by any user. The Town of East Haven and its mapping contractors assume no legal responsibility for the information contained herein.

Map Produced: 9/2020



# Town of East Haven, CT

## Property Listing Report

Map Block Lot

090 1013 005

Building # 1

Unique Identifier

V0098600

### Property Information

Property Location	<b>259 COMMERCE ST</b>		
Mailing Address	<b>259 COMMERCE ST</b>		
	<b>EAST HAVEN</b>	<b>CT</b>	<b>06512</b>
Land Use	<b>Light Industrial</b>		
Zoning Code	<b>LI-2</b>		
Neighborhood	<b>IS1</b>		

### Valuation Summary

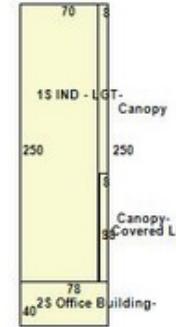
(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	<b>587740</b>	<b>411420</b>
Outbuildings	<b>54682</b>	<b>38280</b>
Land	<b>114000</b>	<b>79800</b>
Total	<b>756422</b>	<b>529500</b>

Owner	<b>VIGLIONE STEPHEN J</b>
Co-Owner	
Book / Page	<b>0322/0838</b>
Land Class	<b>Industrial</b>
Census Tract	<b>1801000</b>
Acreage	<b>0.49</b>

### Utility Information

Electric	<b>No</b>
Gas	<b>No</b>
Sewer	<b>Yes</b>
Public Water	<b>Yes</b>
Well	<b>No</b>



### Primary Construction Details

Year Built	<b>1956</b>	Heating Fuel	<b>Gas</b>	Livable Area (ft)	<b>23740</b>	Bsmt Area	<b>0</b>
Building Desc.	<b>Commercial</b>	Heating Type	<b>FHA</b>	Building Use	<b>Light Manu</b>	Fin Bsmt Area	<b>0</b>
Building Style		AC Type	<b>Central</b>	Building Condition	<b>Average</b>	Fin Bsmt Quality	
Stories	<b>1</b>	Bedrooms	<b>0</b>	Frame Type	<b>Average</b>	Bsmt Access	
Exterior Walls	<b>Concrete Block</b>	Full Bathrooms	<b>0</b>	Building Grade	<b>0</b>	Bsmt Gar	<b>0</b>
Exterior Walls 2	<b>B. V. Solid</b>	Half Bathrooms	<b>0</b>	Fireplaces	<b>0</b>	Bsmt Sump Pump	<b>No</b>
Interior Walls		Extra Fixtures	<b>5</b>	Wood Stoves	<b>0</b>		
Interior Walls 2		Total Rooms	<b>0</b>	Attic Access			
Interior Floors 1	<b>Tile</b>	Bath Style	<b>NA</b>	Roof Style			
Interior Floors 2		Kitchen Style		Roof Cover			
		Occupancy	<b>0</b>				



# Town of East Haven, CT

Property Listing Report

Map Block Lot

090 1013 005

Building # 1

Unique Identifier

V0098600

## Detached Outbuildings

Type	Description	Area (sq ft)	Condition	Year Built
Fencing	Fencing	400	Average	1956
Paving	Paving	12000	Average	1956
Cell Towers	Cell Tower Mounted roof top	1	Average	2011
Cell Towers	Cell Tower Mounted roof top	1	Average	2011
Cell Towers	Monopole Cell Towers	1	Average	2011
Cell Towers	Monopole Cell Towers	1	Average	2012

## Attached Extra Features

Type	Description	Area (sq ft)	Condition	Year Built
Loading Dock	Covered Loading Dock	783	Average	1984
Canopy	Canopy	2078	Average	1984

## Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
VIGLIONE STEPHEN J	322_ 838	3/19/1981	0



## Town of East Haven, CT

## Property Listing Report

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## Map Block Lot

090 1013 005

Building # 2

### Unique Identifier

V0098600



15 Cell Tower- Lat - 41-15-23 Long - 72-52-33 Tower Type - Monotype Height - 60ft Self Supporting Antenna Owner - AT&T Mobility	15 Cell Tower- Lat - 41-15-22.86 Long - 72-52-32.8 Tower Type - Mounted Antenna Owner - AT&T Mobility	15 Cell Tower- Lat - 41-15-22.86 Long - 72-52-32.8 Tower Type - Mounted Antenna Owner - T-Mobile
Personal Property	15 Cell Tower- Lat - 41-15-22.86 Long - 72-52-32.8 Tower Type - Mounted Antenna Owner - AT&T Mobility	15 Cell Tower- Lat - 41-15-22.86 Long - 72-52-32.8 Tower Type - Mounted Antenna Owner - Cingular

## Primary Construction Details

Year Built	2011	Heating Type		Building Use	Commercial	Fin Bsmt Area	0
Building Desc.	Cell Site	AC Type		Building Condition	Average	Fin Bsmt Quality	
Building Style		Bedrooms	0	Frame Type	Average	Bsmt Access	
Stories	0	Full Bathrooms	0	Building Grade	0	Bsmt Garage	0
Exterior Walls		Half Bathrooms	0	Fireplaces	0	Bsmt Sump Pump	No
Exterior Walls 2		Extra Fixtures	0	Wood Stoves	0		
Interior Walls		Total Rooms	0	Attic Access			
Interior Walls 2		Bath Style	NA	Roof Style			
Interior Floors 1		Kitchen Style		Roof Cover			
Interior Floors 2		Occupancy	0				

## Attached Extra Features

Petition No. 634  
AT&T Wireless  
East Haven, Connecticut  
Staff Report  
July 8, 2003

On June 10, 2003, Connecticut Siting Council (Council) member Philip T. Ashton and S. Derek Phelps of staff met with AT&T Wireless representatives at 259 Commerce Street in East Haven. Other persons in attendance were Lucia Chiocchio, Esq., of Cuddy & Feder LLP; Doug Frost, Engineering Technician, of NATCOMM, LLC; Kumar Rughobur, RF Engineer, of WFI; Ray Vergati, Project Director, of Optasite, Inc.; and George Mingione, Planning and Zoning Administrator of the Town of East Haven. AT&T Wireless proposes to replace and expand an existing lattice tower and is petitioning the Council for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need (Certificate) is required for the modification.

Specifically, AT&T Wireless proposes to replace and expand an existing 48' lattice tower (with a whip antenna extending to 61') with a 57' monopole to be relocated approximately 8' to 10' from the location of the existing tower. AT&T would attach six panel antennas on T-arms to the replacement tower. The property owner's whip antenna would not be reinstalled.

The existing lattice tower is located adjacent to the west side of the existing tower. The replacement monopole is 9' taller than the existing tower, but the overall height of the proposed facility will be approximately 1' lower in total height.

The proposed tower needs to be relocated approximately 8' to 10' from the location of the existing lattice tower for construction purposes. Associated equipment cabinets will be installed on a 7' x 13' concrete pad located at the base of the pole surrounded by an 8' vinyl stockade fence, which will be screened with 6' evergreen trees. The utilities will be installed underground.

At the request of the Council, AT&T Wireless wrote to six nearby residents on June 12, 2003, whose homes are within sight of the proposed tower location to advise them of the petition application. Those homeowners are: Antonio Rossano; Robert A. Esposito; Rita Compano; Phyllis Naqstri and Linda Lawson; Sebatiano and Maria DiBona; and Anne M. Fitzgerald. These persons were asked to forward comments to the Council by June 3, 2003. One resident, Rita Compano, sent a letter stating that she is not in favor of the petition primarily on the basis of concerns that it will adversely affect the property value of her home.

George Mingione, Planning and Zoning Administrator of the Town of East Haven, wrote to the Council in a letter dated June 11, 2003, stating that the town's preference is for vinyl fencing around the tower compound, not less than six feet tall, with evergreen plantings.

• • T • • Mobile •

# WIRELESS COMMUNICATIONS FACILITY

## EAST HAVEN SOUTH - GENERATOR ADD

### SITE ID: CT11623B

### 259 COMMERCE ST

### EAST HAVEN, CT 06512

#### GENERAL NOTES

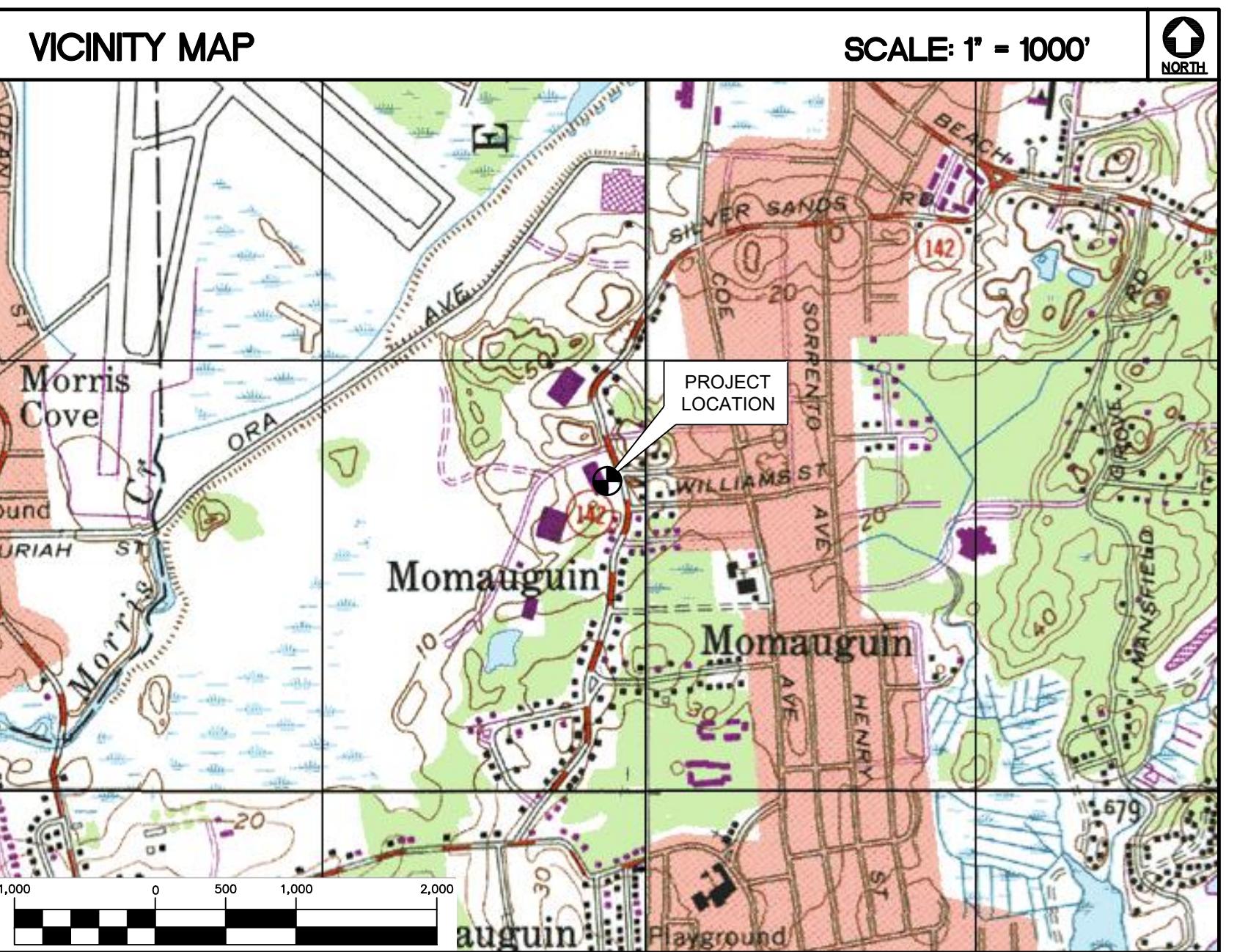
- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2018 CONNECTICUT SUPPLEMENT, INCLUDING THE TIA/EIA-222 REVISION "G" "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND SUPPORTING STRUCTURES." 2017 CONNECTICUT FIRE SAFETY CODE, NATIONAL ELECTRICAL CODE AND 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 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.

#### SITE DIRECTIONS

FROM: 35 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002 TO: 259 COMMERCE ST EAST HAVEN, CT 06512

- START OUT GOING NORTH ON GRIFFIN RD TOWARD HARTMAN RD. 0.41 MI.
- TAKE THE 3RD RIGHT ONTO BLUE HILLS AVENUE EXT/CT-187. CONTINUE TO FOLLOW CT-187. 0.79 MI.
- STAY STRAIGHT TO GO ONTO BLUE HILLS AVE/CT-187. 1.24 MI.
- TURN LEFT ONTO OLD WINDSOR RD/CT-305. CONTINUE TO FOLLOW CT-305. 2.36 MI.
- MERGE ONTO CT-15 S TOWARD HARTFORD. 24.78 MI.
- MERGE ONTO I-95 S VIA EXIT 17 TOWARD E MAIN ST. 11.40 MI.
- TAKE EXIT 63 TOWARD CT-22/NORTH HAVEN. 0.14 MI.
- TURN LEFT ONTO HARTFORD TURNPIKE. 0.09 MI.
- TURN LEFT ONTO BISHOP ST/CT-22, CONTINUE TO FOLLOW CT-22. 0.52 MI.
- MERGE ONTO US-1 S TOWARD NEW HAVEN. 0.16 MI.
- MERGE ONTO I-95 S TOWARD NEW HAVEN. 7.62 MI.
- MERGE ONTO US-1 N VIA EXIT 51 TOWARD EAST HAVEN. 1.85 MI.
- TURN RIGHT ONTO HEMINGWAY AVE/CT-142. 1.35 MI.
- STAY STRAIGHT TO GO ONTO COE AVE/CT-337. 0.98 MI.
- TAKE THE 2ND RIGHT ONTO SILVER SANDS RD/CT-337. 0.41 MI.
- TAKE THE 1ST RIGHT ONTO COMMERCE ST. 0.31 MI.
- 259 COMMERCE ST, EAST HAVEN, CT 06512-4147, 259 COMMERCE ST IS ON THE LEFT. 0.02 MI.

#### VICINITY MAP



#### PROJECT SUMMARY

- THE PROPOSED SCOPE OF WORK CONSISTS OF A MODIFICATION TO THE EXISTING UNMANNED TELECOMMUNICATIONS FACILITY INCLUDING THE FOLLOWING:
  - INSTALL (1) AUTOMATIC TRANSFER SWITCH ON A NEW 3' EQUIPMENT FRAME
  - INSTALL (1) 25KW DIESEL FUELED BACK-UP AC GENERATOR ON A NEW CONCRETE PAD. (10'-0" x 4'-0")

#### PROJECT INFORMATION

SITE NAME:	EAST HAVEN SOUTH
SITE ID:	CT11623B
SITE ADDRESS:	259 COMMERCE ST EAST HAVEN, CT 06512
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:	CENTEK ENGINEERING, INC. 63-2 NORTH BRANFORD RD. BRANFORD, CT 06405
PROJECT COORDINATES:	LATITUDE: 41°15'22.54" N LONGITUDE: 72°52'32.51" W GROUND ELEVATION: 33' ± AMSL SITE COORDINATES AND GROUND ELEVATION REFERENCED FROM GOOGLE EARTH.

#### SHEET INDEX

SHT. NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	2
N-1	GENERAL NOTES AND SPECIFICATIONS	2
C-1	EQUIPMENT PLANS	2
C-2	TYPICAL EQUIPMENT DETAILS	2
E-1	ELECTRICAL DETAILS	2

**CENTEK** engineering  
Centek on Solutions™  
(203) 484-1580  
(203) 484-8382 Fax  
63-2 North Branford Road  
Branford, CT 06405  
www.Centekeng.com

**T-MOBILE NORTHEAST LLC**  
WIRELESS COMMUNICATIONS FACILITY  
**EAST HAVEN SOUTH**  
**SITE ID: CT11623B**  
**259 COMMERCE ST**  
**EAST HAVEN, CT 06512**

DATE: 08/08/18  
SCALE: AS NOTED  
JOB NO. 18079.34

**TITLE SHEET**

**T-1**

Sheet No. 1 of 5

PROFESSIONAL ENGINEER SEAL	STATE OF CONNECTICUT PROFESSIONAL ENGINEER REGISTRATION
2	05/18/21
0	02/08/21
0	08/11/18
REV.	DATE DRAWN BY CHD BY DESCRIPTION

CONSTRUCTION DRAWINGS - REVISED PER NEW GENERATOR MODEL  
CONSTRUCTION DRAWINGS - REVISED PER NEW GENERATOR MODEL  
CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION

## 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 III (BASED ON IBC TABLE 1604.5)
- NOMINAL DESIGN SPEED (OTHER STRUCTURE): 133 MPH (V<sub>asd</sub>) (EXPOSURE C/ IMPORTANCE FACTOR 1.0 BASED ON ASCE 7-10).

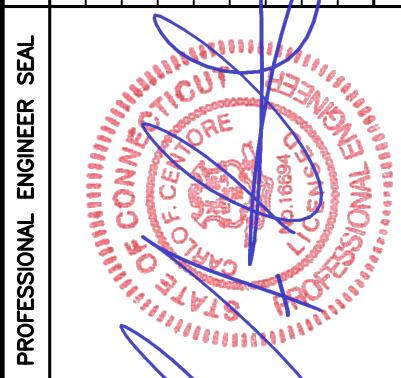
### SITE NOTES

1. THE CONTRACTOR SHALL CALL UTILITIES PRIOR TO THE START OF CONSTRUCTION.
2. ACTIVE EXISTING UTILITIES, WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY, 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.
4. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
5. IF ANY FIELD CONDITIONS EXIST WHICH PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL PROCEED WITH AFFECTED WORK AFTER CONFLICT IS SATISFACTORILY RESOLVED.

### 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.
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4. 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.
5. 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.
6. CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS 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.
7. 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.
8. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURES AND IT'S COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY.
9. 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 MFR.'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 SITE OWNER'S 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 REVIEW.
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 CONDUIT 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 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.
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.

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.

PROFESSIONAL ENGINEER SEAL				
2	05/18/21	RTS	TUR	CONSTRUCTION DRAWINGS - REVISED PER NEW GENERATOR MODEL
0	02/08/21	TUR	TUR	CONSTRUCTION DRAWINGS - REVISED PER NEW GENERATOR MODEL
0	08/11/18	LA	TUR	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
REV.	DATE	DRAWN BY	CHKD BY	DESCRIPTION

<b>CENTEK</b> engineering Centek on Solutions™	(203) 484-1580 (203) 484-5850 632 North Bedford Road Branford, CT 06405 www.CentekEng.com
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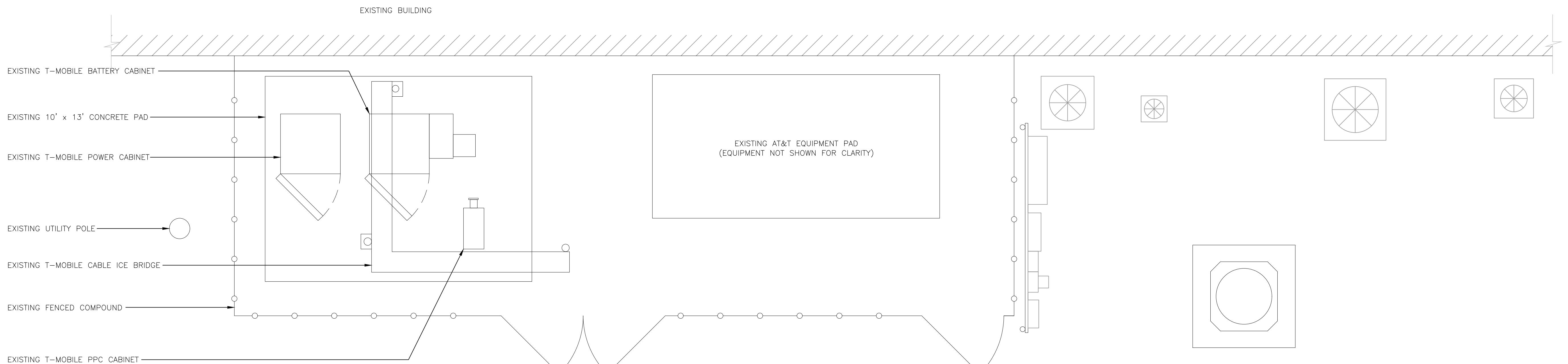
<b>T-MOBILE NORTHEAST LLC</b>	<b>WIRELESS COMMUNICATIONS FACILITY</b>
<b>EAST HAVEN SOUTH</b>	
<b>SITE ID: CT11623B</b>	
<b>259 COMMERCE ST</b>	
<b>EAST HAVEN, CT 06512</b>	

DATE: 08/08/18  
SCALE: AS NOTED  
JOB NO. 18079.34

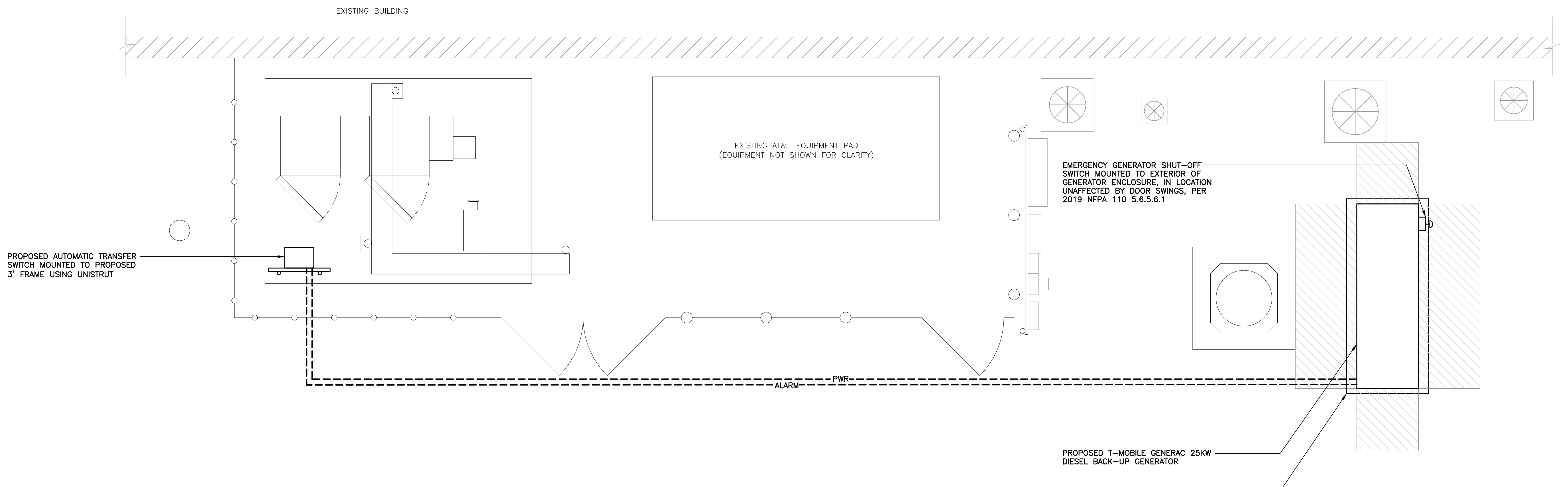
GENERAL NOTES  
AND  
SPECIFICATIONS

**N-1**

Sheet No. 2 of 5



1  
C-1 EXISTING EQUIPMENT PLAN  
SCALE: 3/8" = 1'  
APPROXIMATE  
NORTH



2  
C-1 PROPOSED EQUIPMENT PLAN  
SCALE: 3/8" = 1'  
APPROXIMATE  
NORTH

PROFESSIONAL ENGINEER SEAL	STATE OF CONNECTICUT	TRANSCEND WIRELESS	
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0	02/06/21	TUR	CONSTRUCTION DRAWINGS - REVISED PER NEW GENERATOR MODEL
0	08/11/18	LA	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
REV.	DATE	DRAWN BY	CHK'D BY
			DESCRIPTION

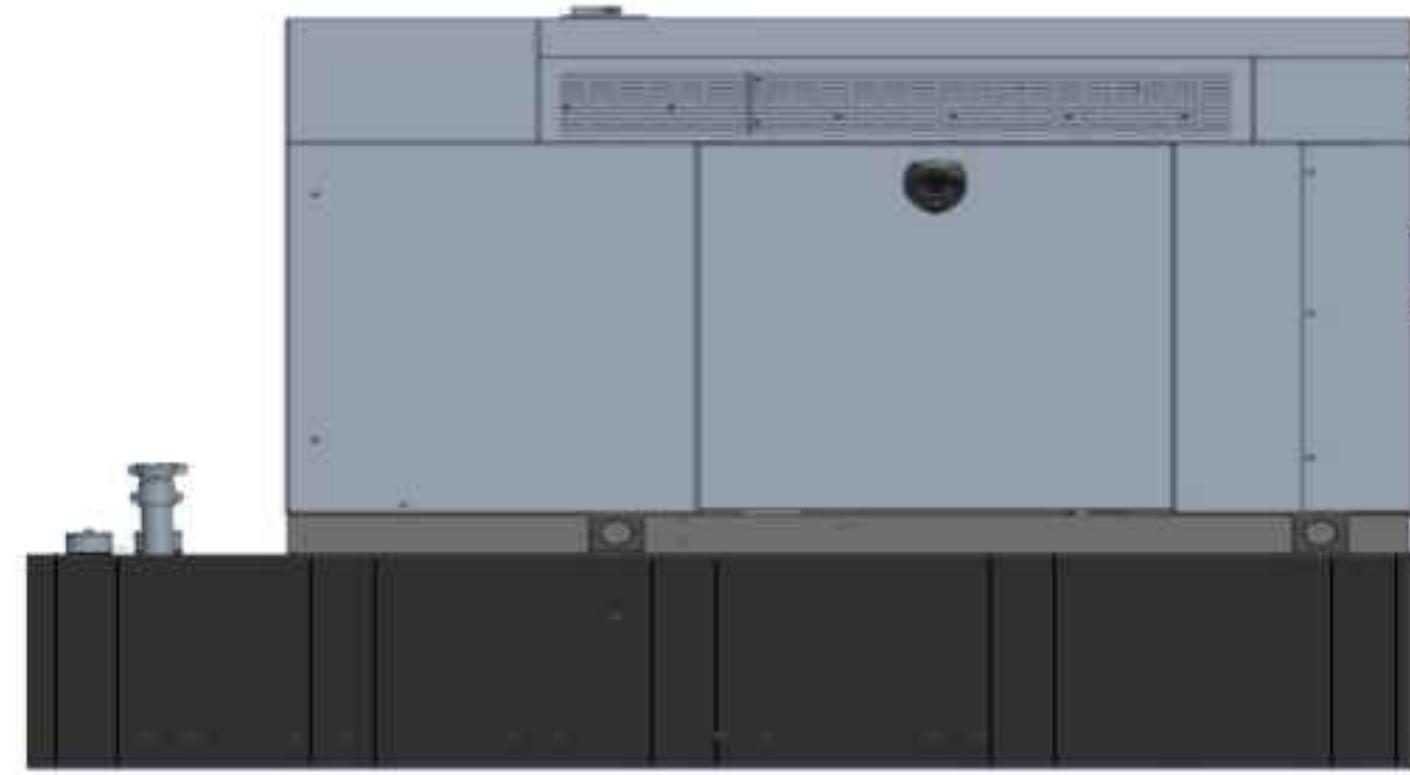
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(203) 484-5850 Fax  
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**SITE ID: CT11623B**  
**259 COMMERCE ST**  
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DATE: 08/08/18  
SCALE: AS NOTED  
JOB NO. 18079.34

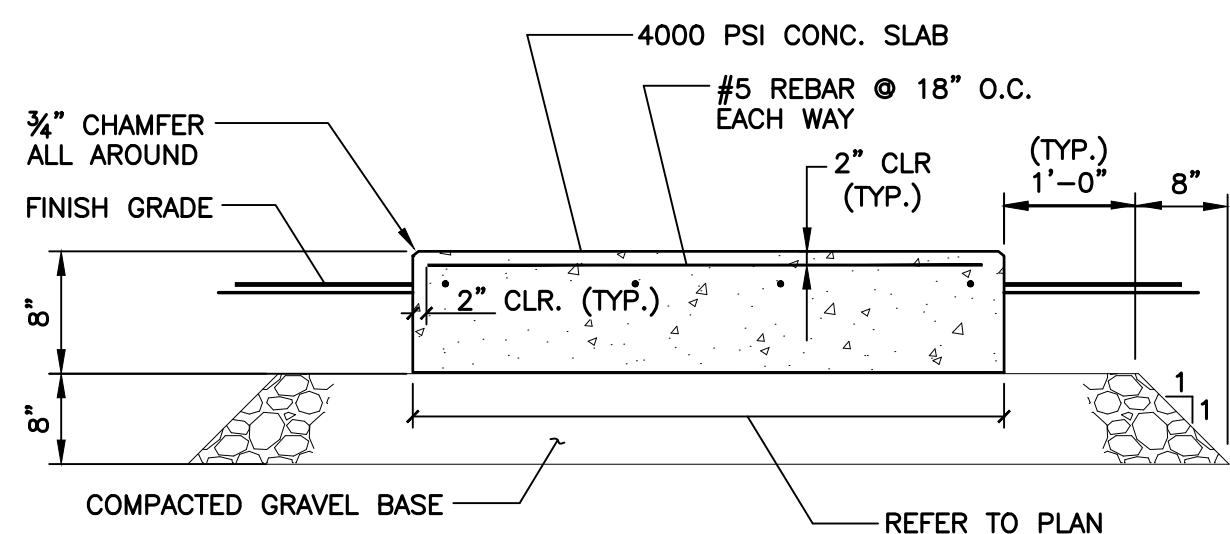
EQUIPMENT PLANS

**C-1**  
Sheet No. 3 of 5

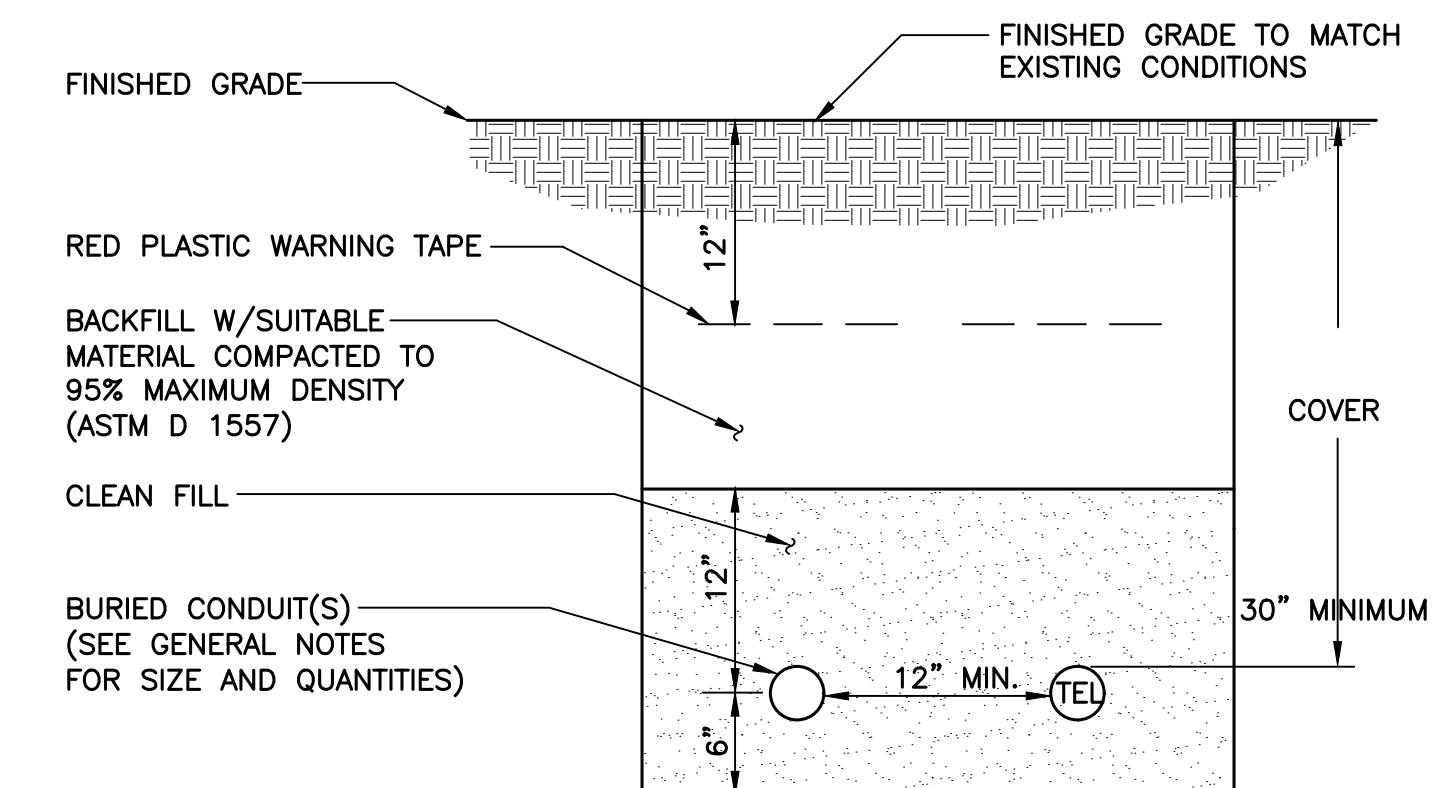


BACKUP POWER GENERATOR						
EQUIPMENT	POWER GENERATED	FUEL	MODEL NUMBER	FUEL TANK SIZE (GAL)	DIMENSIONS	WEIGHT
MAKE: GENERAC MODEL: RD025	25 KW, AC	DIESEL	7192-0	240	103.4" L x 35.0" W x 91.7" H	2123 LBS.
NOTES:						
1. FUEL LEVEL/SECONDARY CONTAINMENT SHALL BE ALARMED AND IN COMMUNICATION WITH T-MOBILE'S NOC. 2. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION AND ALL OPTIONAL FEATURES WITH T-MOBILE'S CONSTRUCTION MANAGER PRIOR TO ORDERING.						

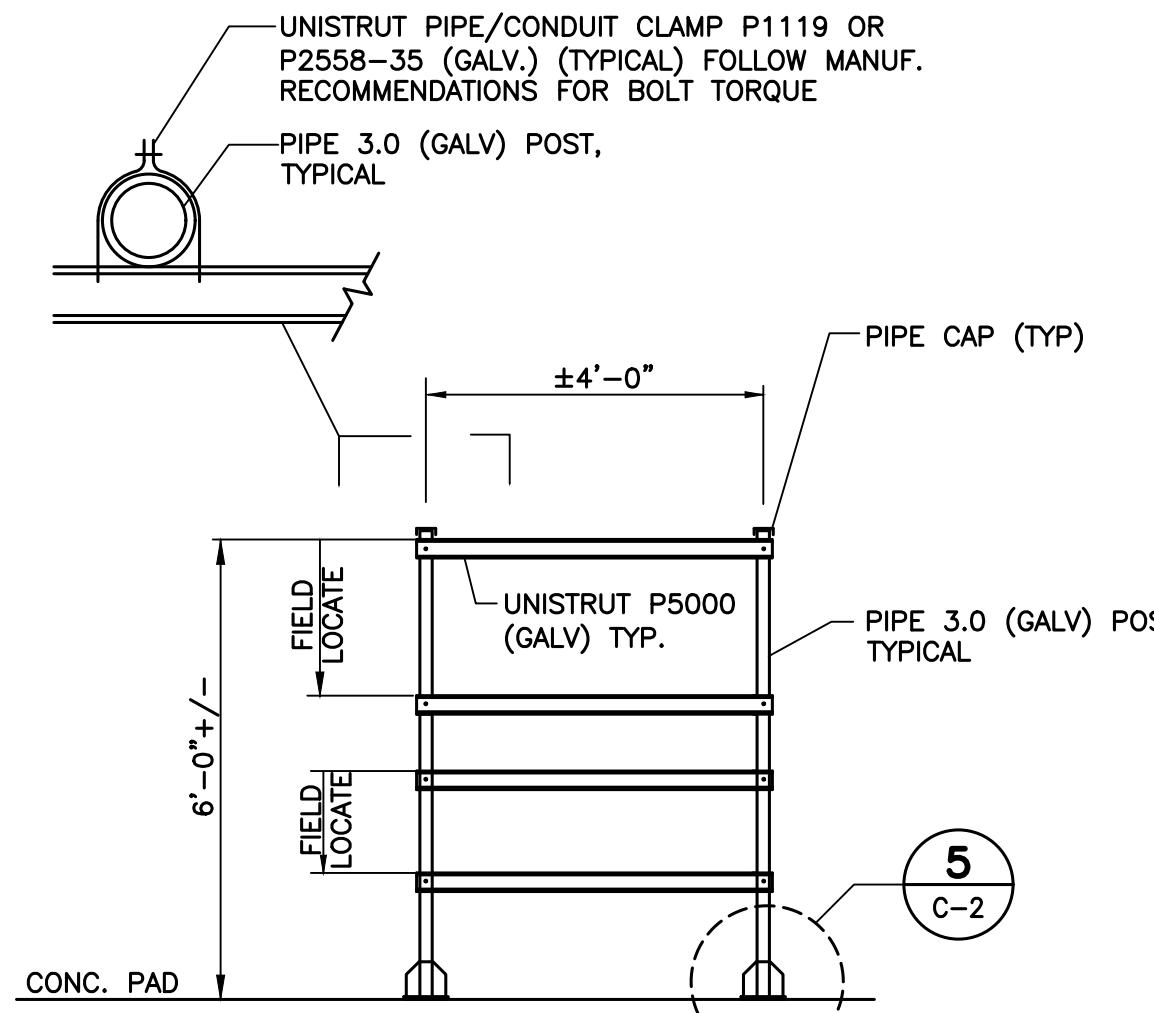
1 PROPOSED GENERATOR DETAIL  
C-2 SCALE: NOT TO SCALE



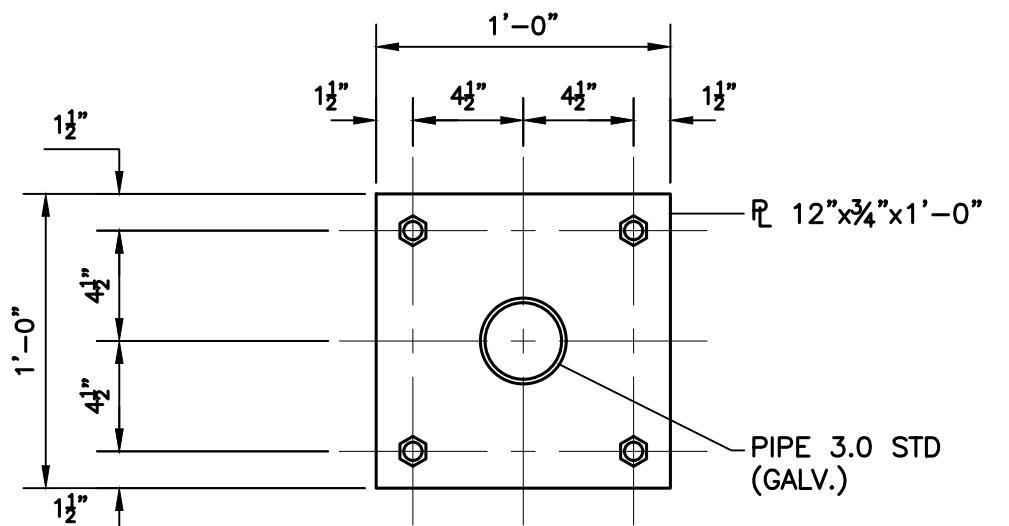
2 TYPICAL CONCRETE PAD DETAIL  
C-2 SCALE: NOT TO SCALE



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



4 EQUIPMENT MOUNTING FRAME DETAIL  
C-2 SCALE: NOT TO SCALE



5 FRAME TO CONCRETE CONNECTION DETAIL  
C-2 SCALE: NOT TO SCALE

PROFESSIONAL ENGINEER SEAL	STATE OF CONNECTICUT	TRANSCEND WIRELESS
2	05/18/21	RTS
0	02/08/21	TUR
0	08/11/18	LAA
0	CONSTRUCTION DRAWINGS - REVISED PER NEW GENERATOR MODEL	TUR
0	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION	TUR
Rev.	DATE DRAWN BY	CHKD BY DESCRIPTION

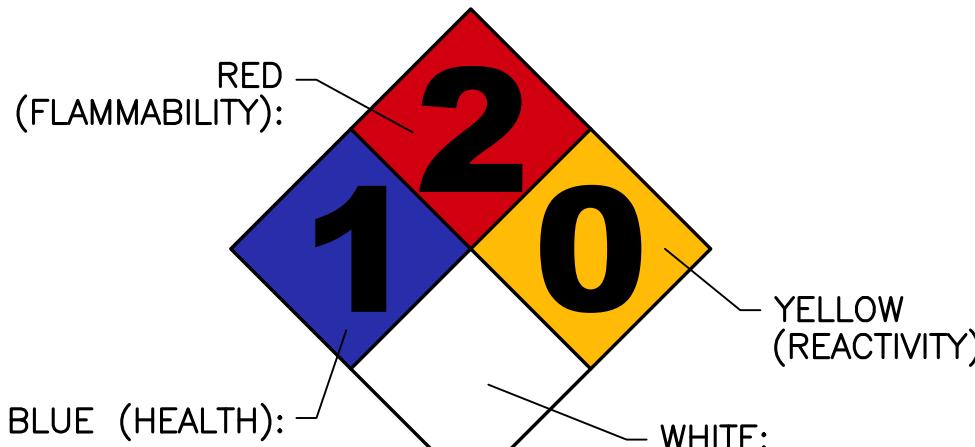
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**EAST HAVEN SOUTH**  
SITE ID: CT11623B  
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EAST HAVEN, CT 06512

DATE: 08/08/18  
SCALE: AS NOTED  
JOB NO. 18079.34

TYPICAL  
EQUIPMENT  
DETAILS

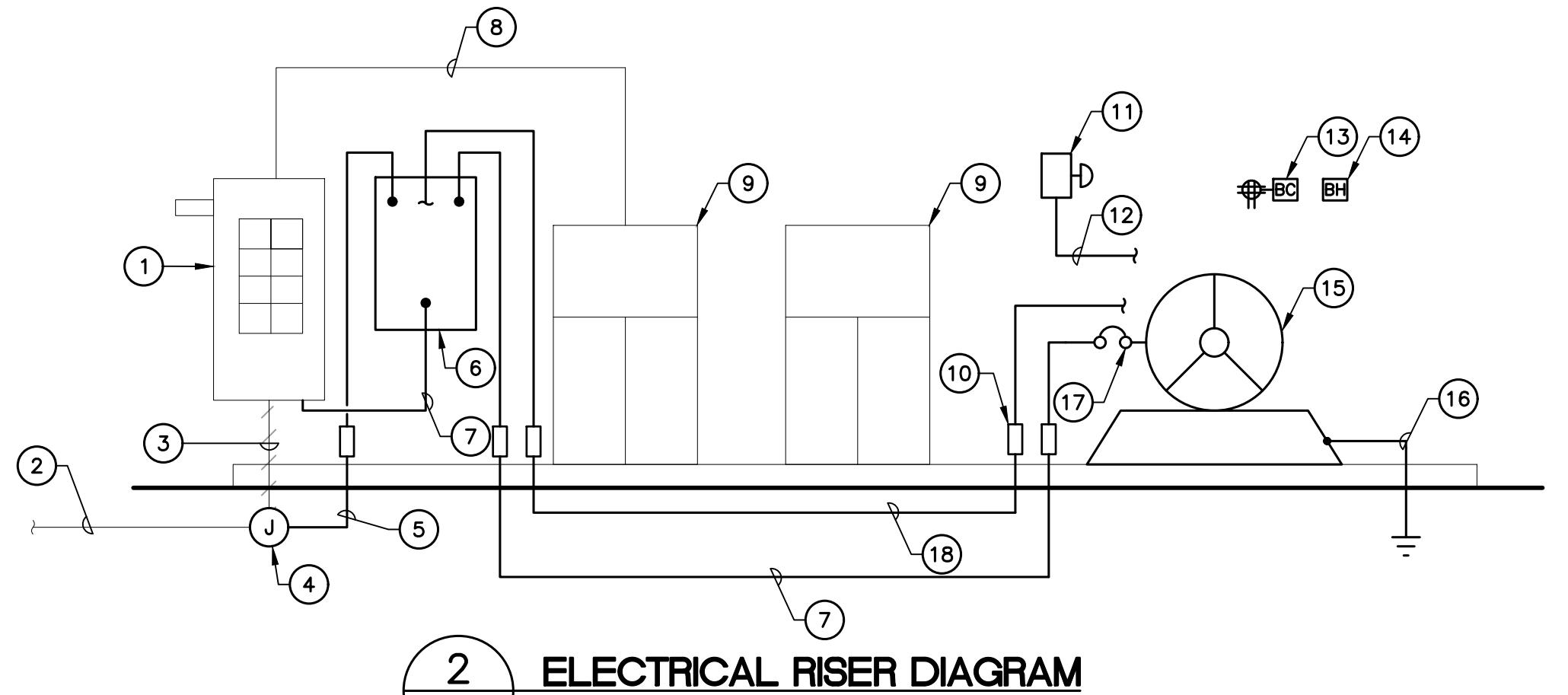
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Sheet No. 4 of 5



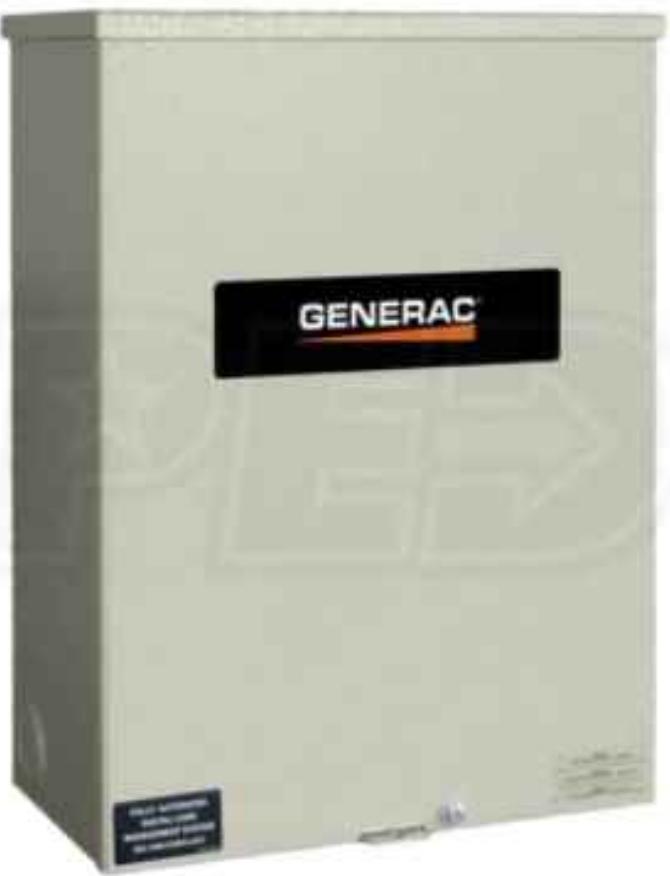
SIGN NAME:	REGULATORY, NFPA 704 HAZARD ID
DESCRIPTION:	MOUNT ON GENERATOR ACCESS DOOR. CONSULT WITH GENERATOR MANUFACTURER MSDS SHEET FOR BLUE AND RES POSITIONS
NOTES:	
1)	SIGNS EXPOSED TO WEATHER SHOULD BE CHECKED ANNUALLY FOR READABILITY.
2)	SIGNS MUST BE UPDATED IF CHEMICAL STORAGE OR HAZARD INFORMATION FOR THE LOCATION CHANGES.
3)	THE GC MUST REVIEW WITH LOCAL JURISDICTION WHEN FILLING FOR PERMITS, AS EACH JURISDICTION MAY HAVE DIFFERENT REQUIREMENTS AND COMPLY WITH POSTING REQUIREMENTS OR DIRECTIVES FROM THE LOCAL JURISDICTION.

1 NFPA 704 DIAMOND SIGNAGE DETAIL  
E-1 SCALE: NOT TO SCALE

RISER DIAGRAM NOTES	RISER DIAGRAM NOTES
<ol style="list-style-type: none"> <li>EXISTING 200A PPC CABINET TO REMAIN.</li> <li>EXISTING POWER CONDUIT AND CONDUCTORS PREVIOUSLY SERVING EXISTING PANEL.</li> <li>SECTION OF CONDUIT AND CONDUCTORS TO BE REMOVED.</li> <li>JUNCTION BOX SIZED PER NEC.</li> <li>EXTEND EXISTING CONDUITS AND CONDUCTORS TO NEW ATS.</li> <li>NEW 200A, 2 SOURCE AUTOMATIC TRANSFER SWITCH.</li> <li>(3) #3/0 AWG, (1) #6 AWG GROUND, 2-1/2" CONDUIT.</li> <li>EXISTING CONDUITS AND CONDUCTORS TO REMAIN.</li> <li>EXISTING EQUIPMENT CABINETS TO REMAIN.</li> <li>EXPANSION COUPLING TYPICAL.</li> </ol>	<ol style="list-style-type: none"> <li>REMOTE GENERATOR SHUT OFF SWITCH IN BREAK GLASS ENCLOSURE MOUNTED TO EXTERIOR OF GENERATOR ENCLOSURE PER 2019 NFPA 110 5.6.5.6.1.</li> <li>3/4" CONDUIT AND CONDUCTORS REQUIRED FOR PROPER OPERATION OF EMERGENCY GENERATOR SHUT OFF SWITCH.</li> <li>GENERATOR BATTERY CHARGER AND CONVENIENCE GFCI OUTLET WIRED TO EXISTING PANEL OUTLET TO BE MOUNTED IN WEATHERPROOF ENCLOSURE.</li> <li>GENERATOR BLOCK HEATER WIRED TO EXISTING PANEL SERVING.</li> <li>EMERGENCY BACK UP GENERATOR.</li> <li>GENERATOR GROUNDING PER NEC AND MANUFACTURER'S REQUIREMENTS. BOND TO EXISTING GROUNDING SYSTEM. (MINIMUM OF (1) #2 AWG GROUND)</li> <li>GENERATOR OUTPUT CIRCUIT BREAKER.</li> <li>1" CONDUIT FOR GENERATOR CONTROL AND SIGNAL WIRING.</li> </ol>



2 ELECTRICAL RISER DIAGRAM  
E-1 SCALE: NOT TO SCALE



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

3 AUTOMATIC TRANSFER SWITCH DETAIL  
E-1 SCALE: NOT TO SCALE

PROFESSIONAL ENGINEER SEAL	STATE OF CONNECTICUT PROFESSIONAL ENGINEER REGISTRATION BOARD
REV.	2
DATE	05/18/21
DATE	02/06/21
DATE	08/11/18
DATE	TUR
DATE	TUR
DATE	LA
DATE	TUR
DATE	CONSTRUCTION DRAWINGS - REVISED PER NEW GENERATOR MODEL
DATE	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
DATE	CONSTRUCTION DRAWINGS - REVISED PER NEW GENERATOR MODEL
DATE	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION

T-MOBILE NORTHEAST LLC  
WIRELESS COMMUNICATIONS FACILITY  
EAST HAVEN SOUTH  
SITE ID: CT11623B  
259 COMMERCE ST  
EAST HAVEN, CT 06512

DATE: 08/08/18  
SCALE: AS NOTED  
JOB NO. 18079.34

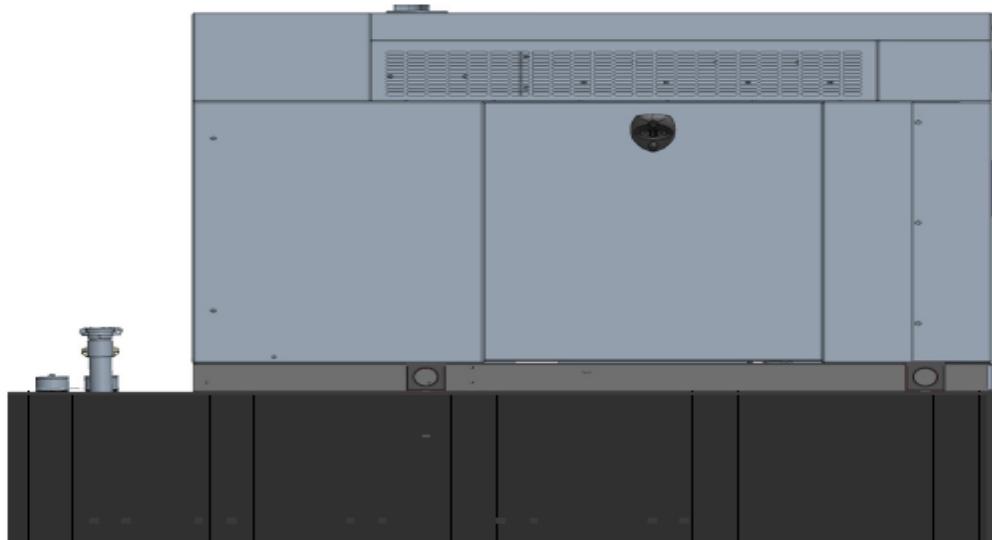
ELECTRICAL DETAILS

E-1

Sheet No. 5 of 5

# **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:	<a href="http://docs.eng.t-mobile.com/InfoRouter/docs/~D423750">http://docs.eng.t-mobile.com/InfoRouter/docs/~D423750</a> Slightly updated 1/2011		

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# 1 Introduction / Project Summary

## 1.1 Purpose of Project

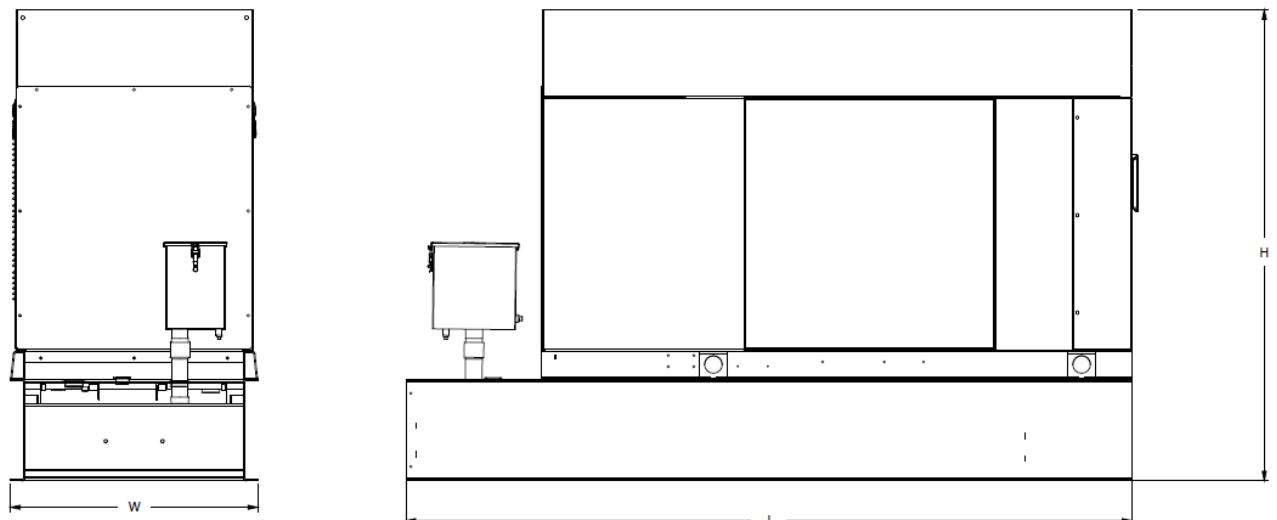
T-Mobile's nationwide cell site hardening plan is providing a refuelable backup power system capable of powering a site for a minimum of 48 hours before refueling is required. The purpose of this project is to give T-Mobile customers reliable service during power outages and provide a sufficient layer 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  $\pm 0.25\%$  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.

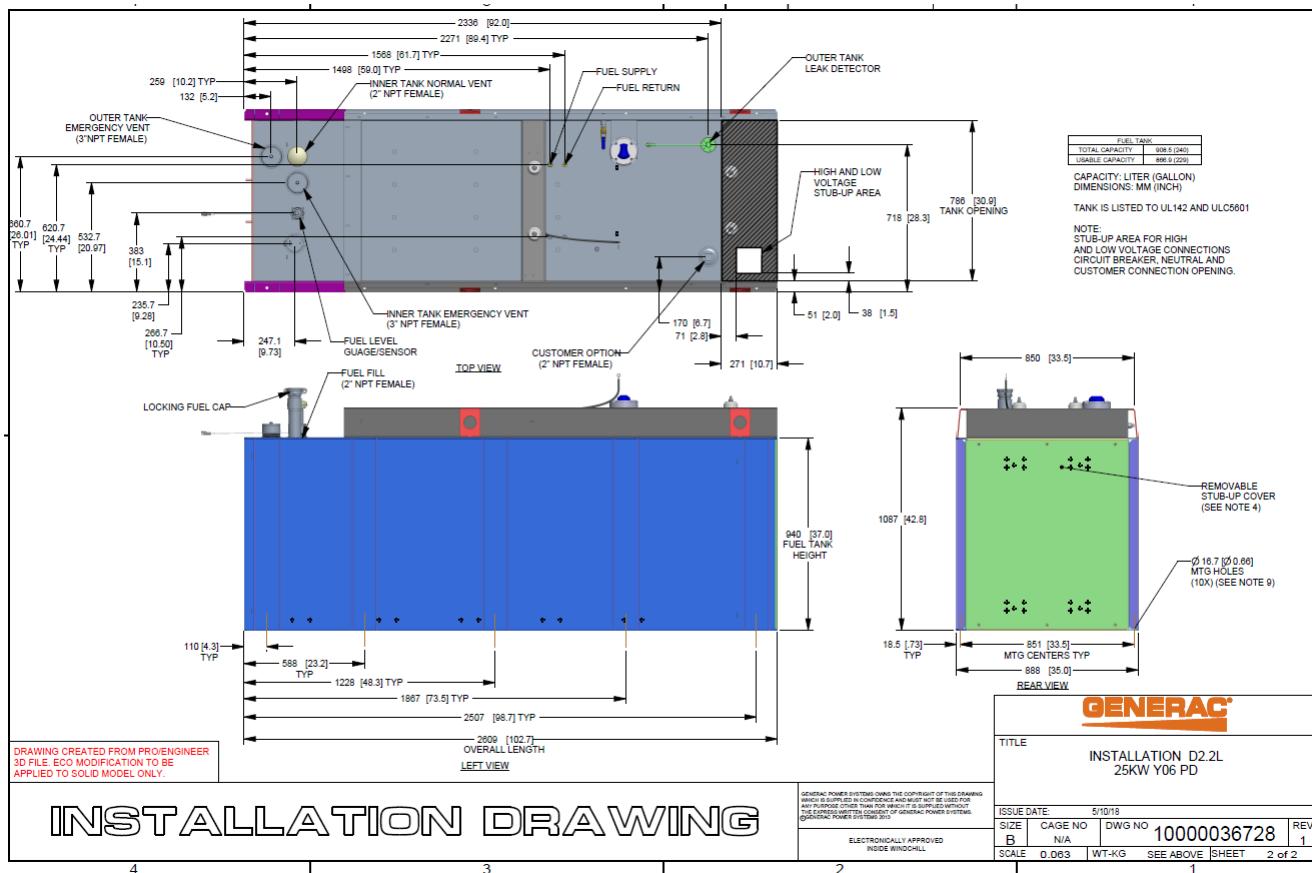


Weights and Dimensions

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

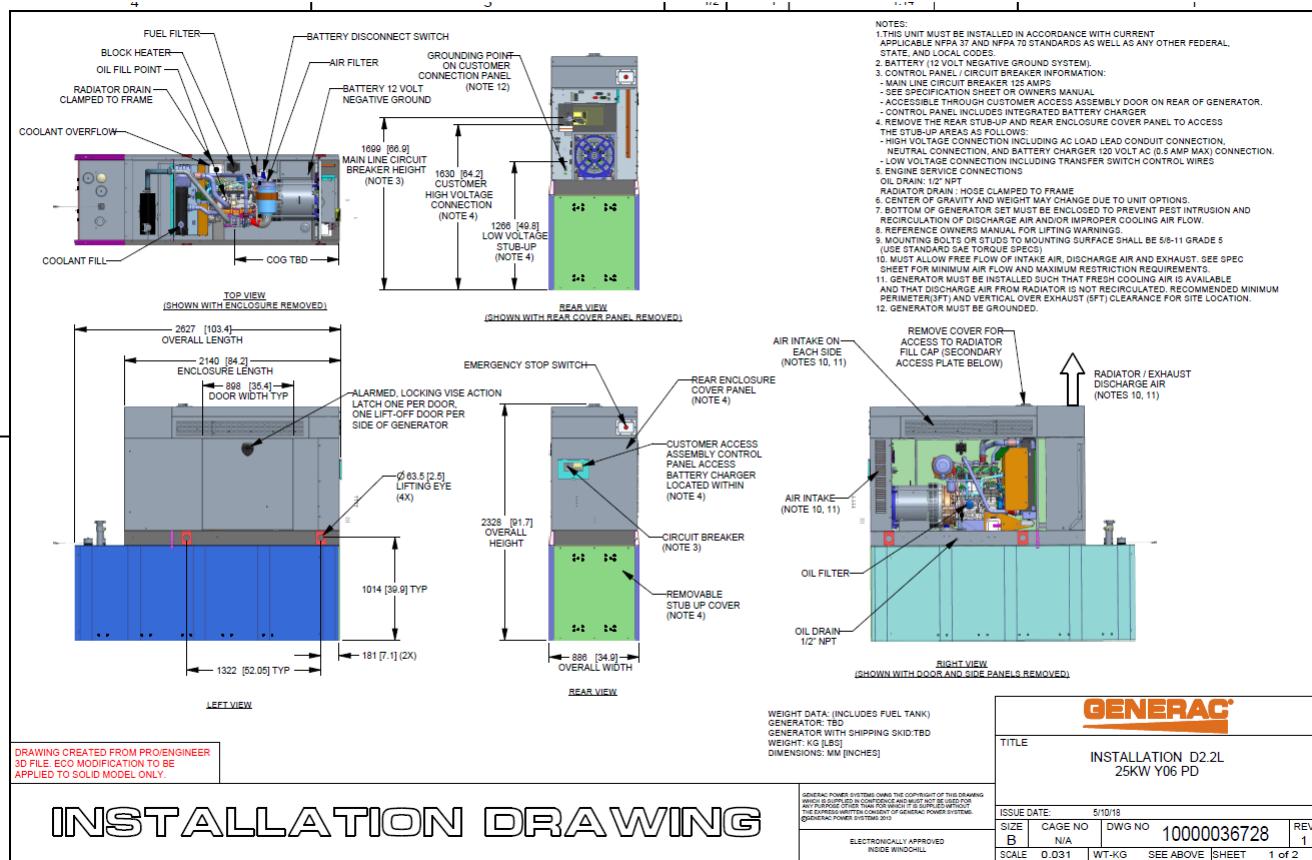
The RD025 has a 102.7" 240 Gallon Double-Wall UL142 Base tank to provide 98 hours of backup power at full load deployed on site. Below is the Install drawing for the 240-gallon tank for the RD025kW.



### 3 RXSC200A3 ATS/ Controller

### 3.1 Hardware

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

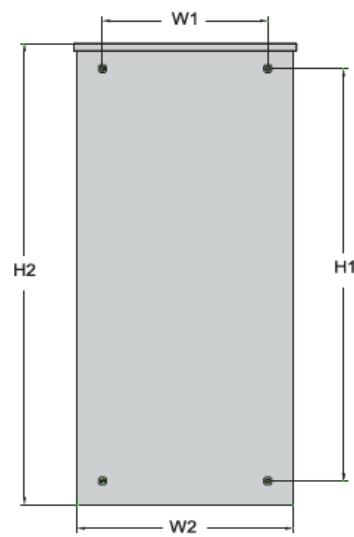
RXSC200A3 [Link](#)RXSC200A3 install drawing [Link](#)Evolution controller spec sheet [Link](#)RD025 installation drawings and supporting documentation [Link](#)

### 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.

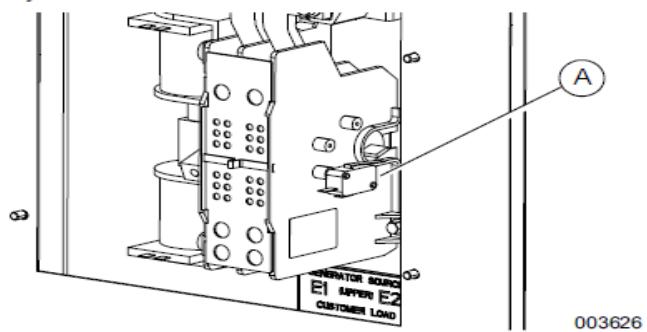
At a Nokia site, this connection is at the FSEB or an FSEE module. For the wiring diagram and instructions for the FSEB click the [Link](#) (The FSEE is the Nokia module that will be replacing the FSEB. For details on the FSEE contact: HQNokiaCellsiteDesigns@T-Moblie.com)

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.

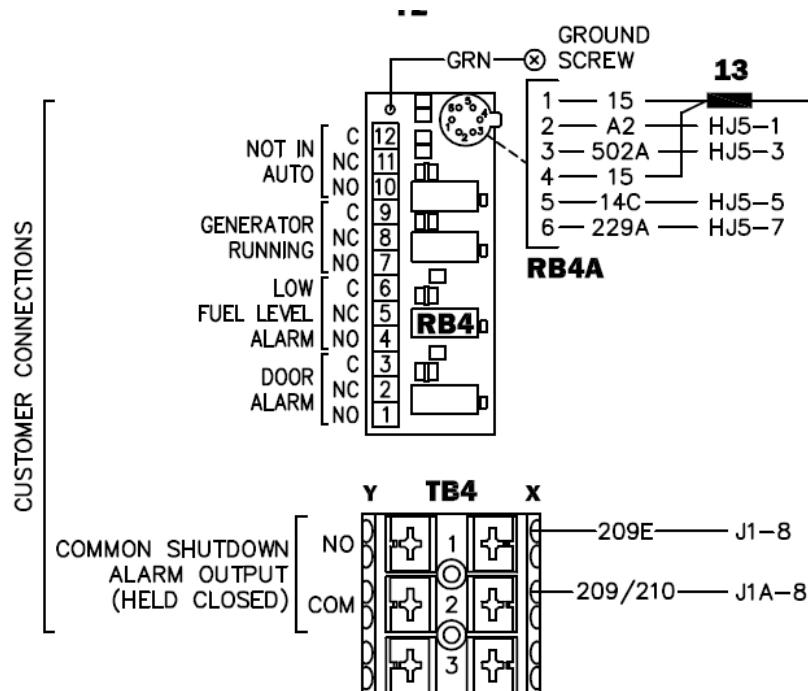
#### CAUTION

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
<b>Product no</b>	<b>Denomination</b>	
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

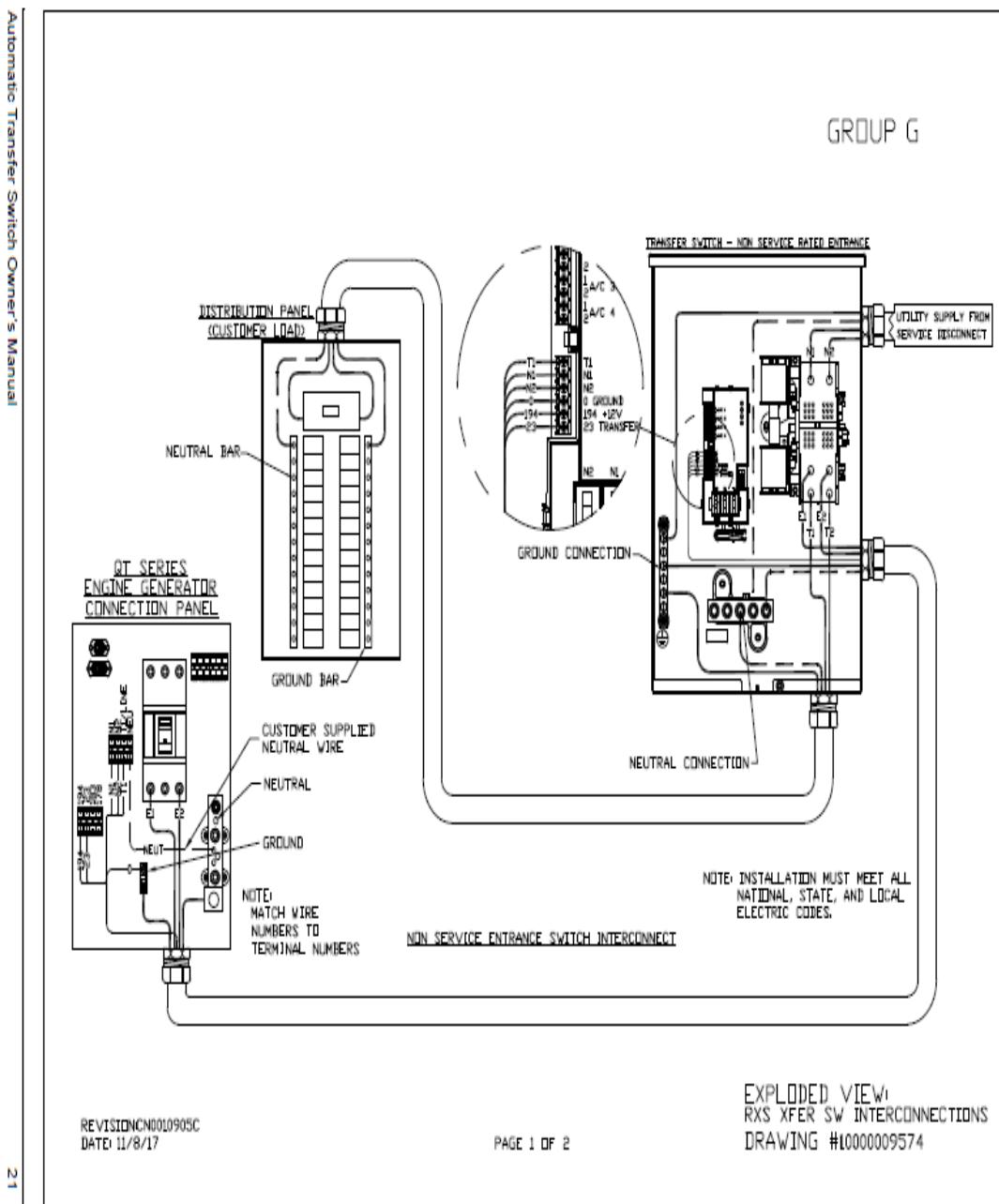
Level 2 Acoustic Enclosure provides a noise level of 67.5dBA. It is EPA certified and meets NFPA 99 and 110 requirements(NFPA National Fire Protection Association). The RD025 generator engines is a tier 4 engine and meets the EPA final standards.

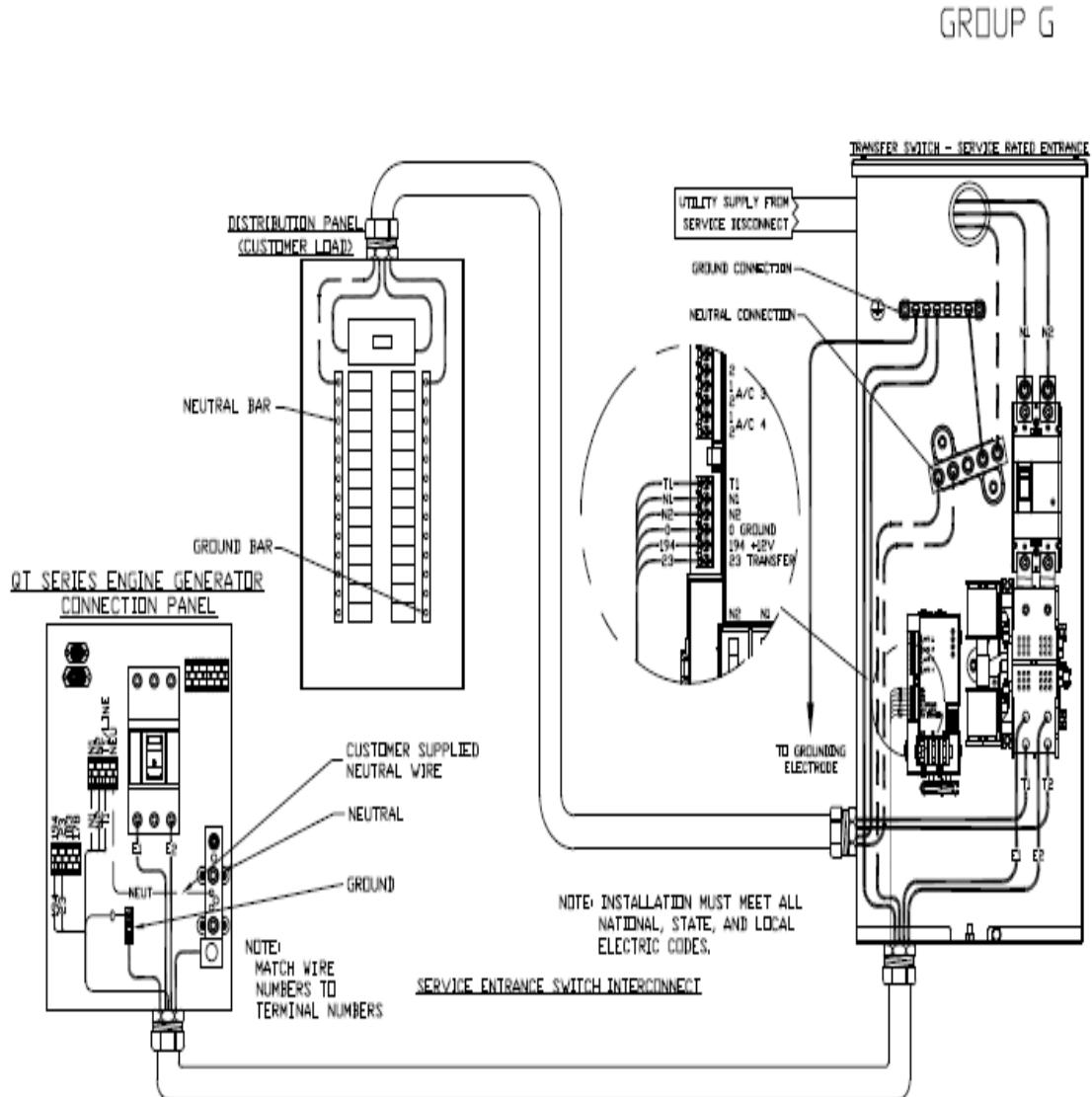
## 6 Configuration/Diagrams

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

**Interconnection Drawings**  
**No. 10000009574 (Part 1 of 2)—Liquid-Cooled Generator**



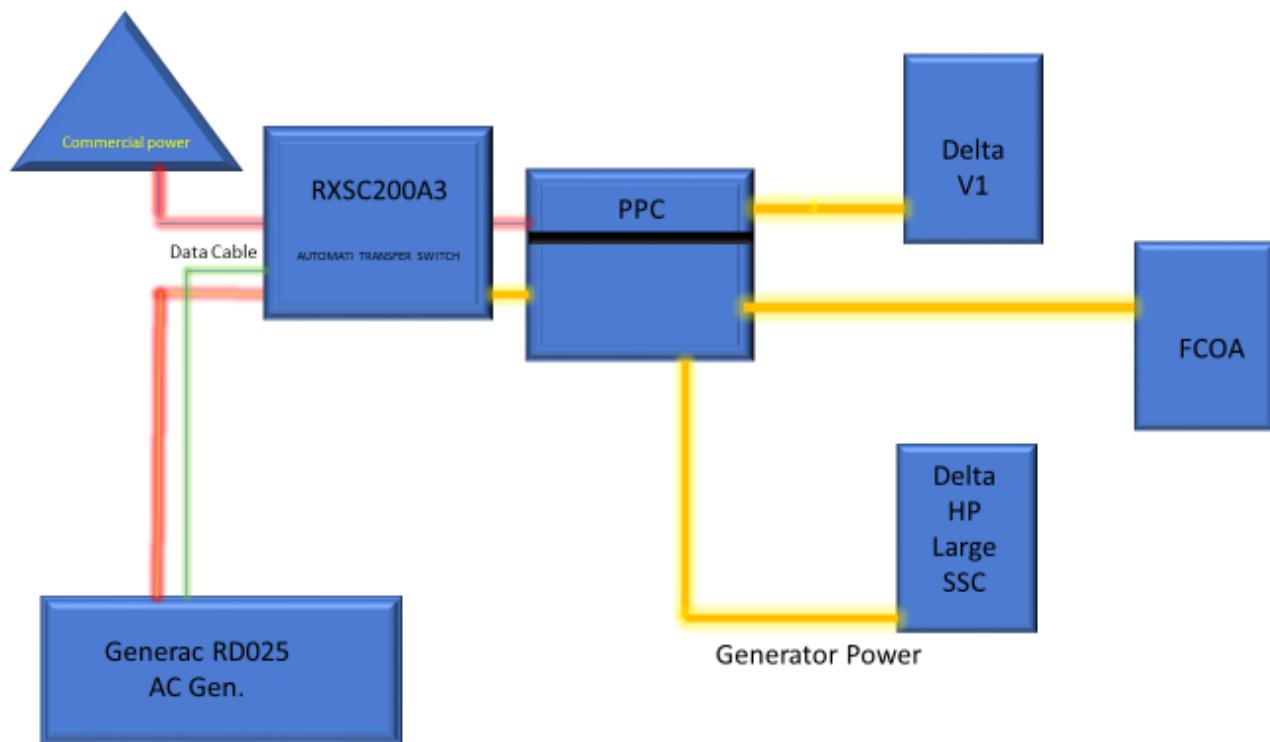


REVISION CN0010905C  
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EXPLODED VIEW:  
RXS XFER SW INTERCONNECTIONS  
DRAWING #10000009574

## Compound Diagram:



## 7 Maintenance

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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.