

STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

IN RE:

A PETITION FOR A DECLARATORY RULING ON THE NEED TO OBTAIN A SITING  
COUNCIL CERTIFICATE FOR THE PROPOSED MODIFICATION OF AN EXISTING  
WIRELESS TELECOMMUNICATIONS FACILITY AT:  
259 COMMERCE STREET, EAST HAVEN, CT 06512

PETITION NO. \_\_\_\_  
AUGUST 16, 2022

PETITION FOR A DECLARATORY RULING:  
INSTALLATION HAVING NO:  
SUBSTANTIAL ADVERSE ENVIRONMENTAL EFFECT

**I. Introduction**

Pursuant to Sections 16-50j-38 and 16-50j-39 of the Regulations of Connecticut State Agencies (“R.C.S.A”), T-Mobile Northeast, LLC (“T-Mobile”) hereby petitions the Connecticut Siting Council (the “Council”) for a declaratory ruling (“Petition”) that no Certificate of Environmental Compatibility and Public Need (“Certificate”) is required under Section 16-50k(a) of the Connecticut General Statutes (“C.G.S”) for the modification of an existing wireless telecommunications facility at 259 Commerce Road, East Haven, Connecticut (the “Existing Facility”).

**II. Existing Facility**

The Existing Facility is located on an approximately 0.49-acre parcel owned by Stephen Viglione. The Facility consists of a 58-foot monopole tower and associated compound, which is owned by Crown Castle. **Attachment 1** contains the owner’s authorization permitting T-Mobile to file this Petition. The Facility was originally built in approximately 2003 and T-Mobile’s shared use of the facility was approved by the Council on March 2, 2007, as documented in **Attachment 2**.

**III. T-Mobile Facility**

T-Mobile’s proposed modification to its facility is illustrated on the plans submitted as **Attachment 3**. T-Mobile proposes to install a new 48kW diesel generator for emergency backup power.

T-Mobile’s existing ground equipment is located on a concrete pad immediately adjacent to the existing guyed tower on the South side. T-Mobile will install the new generator on a proposed 9’

x 4' concrete pad immediately adjacent to the monopole's North side. The generator requires 3' clearances in all directions, meaning T-Mobile will need a 15' x 10' area. The proposed generator will be fueled via an integrated 240-gallon tank. The generator requires one (1) 12-minute run cycle per week. Specifications for the proposed generator are in **Attachment 4**.

#### **IV. The Proposed Modification Will Not Have A Substantial Adverse Environmental Effect**

##### **A. Physical Environmental Effects**

The installation of T-Mobile's emergency backup generator will not involve a significant alteration to the physical and environmental characteristics of the Property. The installation will alter an existing disturbed area immediately adjacent to the existing compound. No native trees will need to be removed and no on-site or off-site wetlands or watercourses will be impacted by the proposed facility expansion.

##### **B. Visual Effects**

Given the height of the existing tower, 58' AGL, and the presence of an existing developed compound area, T-Mobile's proposed generator installation would have a minimal visual impact. The proposed generator will be screened from view from the public right-of-way by the existing buildings and will have a minimal visual impact.

##### **C. Noise Effects**

The installation of T-Mobile's backup generator will not result in a significant increase in noise from the Existing Facility. Use of the generator to provide emergency back-up power would be exempt from CT DEEP noise control standards under CT General Statutes Section 22a-69-1.8(f), because any noise created would be the result of an emergency. The weekly 12-minute run cycles would not add a significant level of noise from the cell site/property, which already includes at least one other backup generator.

##### **D. FCC Compliance**

T-Mobile's proposed modification will not result in a change to radio frequency ("RF") emissions from the existing facility. A new power density calculation table has not, therefore, been provided as part of this filing.

#### **V. Notice to the Municipality, Property Owner and Abutting Landowners**

On July 6, 2022, a copy of this Petition was sent to the Town of East Haven's Mayor Joseph Carfora, and Joseph Budrow, Zoning Enforcement Officer. A notice of T-Mobile's intent to file this Petition was also sent to the owners of land that may be considered to abut the Property or are within 200-feet. Included in **Attachment 5** is a sample abutter's letter and the list of those abutting landowners who were sent notice.

#### **VI. Conclusion**

Based on the information provided above, the Petitioners respectfully requests that the Council issue a determination in the form of a declaratory ruling that the installation of a temporary tower at the Property will not have a substantial adverse environmental effect and does not require the issuance of a Certificate of Environmental Compatibility and Public Need pursuant to § 16-50k of the General Statutes.

Respectfully submitted,

Eric Breun  
Transcend Wireless  
Agent for T-Mobile Northeast LLC  
201-658-7728  
[ebreun@transcendwireless.com](mailto:ebreun@transcendwireless.com)

Attachments:

Joseph Carfora  
Town of East Haven  
250 Main Street  
East Haven, CT 06512

Joseph Budrow  
Town of East Haven  
250 Main Street  
East Haven, CT 06512

Crown Castle - Tower Owner

Stephen Viglione - Property Owner



# 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 CT 06512</b>		
Land Use	<b>Light Industrial</b>		
Zoning Code	<b>LI-2</b>		
Neighborhood	<b>IS1</b>		

### Valuation Summary

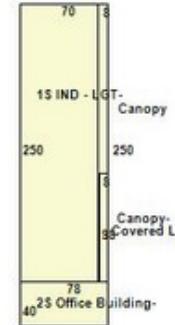
(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	<b>806700</b>	<b>564690</b>
Outbuildings	<b>14200</b>	<b>9940</b>
Land	<b>114000</b>	<b>79800</b>
Total	<b>934900</b>	<b>654430</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

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## Map Block Lot

090 1013 005

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**Building #**

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### Unique Identifier

**V0098600**

## Detached Outbuildings

## Attached Extra Features

## Sales History

**Owner of Record**

Book/ Page

### Sale Date

### Sale Price

**VIGLIONE STEPHEN J.**

322 838

3/19/1981

1

## LETTER OF AUTHORIZATION

BUN: 842862 / East Haven South  
Property Address: 259 Commerce Street, East Haven, Connecticut 06512

I, Stephen T. Viglione, owner/authorized representative of the above described property, located at 259 Commerce Street, East Haven, New Haven County, Connecticut 06512 (the "Property"), as evidenced by the Land Lease Agreement, dated April 30, 2003, as it may have been amended and assigned, hereby authorize T-Mobile Northeast LLC, through its designated agent, Northeast Site Solutions, to act as an agent on my behalf for the sole purpose of consummating any building or land-use applications necessary to ensure the ability of T-Mobile Northeast LLC to use the property for the purpose of constructing, modifying and operating a communications facility. I understand that this application may be denied, modified, or approved with conditions, and that such conditions or modifications must be complied with prior to issuance of building permits.

Signature of Property Owner /  
Authorized Representative:



Print Name:

Stephen T. Viglione

Title:

Owner

Company:

Address:

259 Commerce Street, East Haven, CT 06512

Telephone:

(203) 467-8388

Date:

8-9-22

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 Rughooobur, 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.

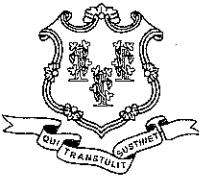
Specifically, AT&T Wireless proposes to replace and expand an existing 48' lattice tower (with a whip antenna extending to 61') with a 57' monopole to be relocated approximately 8' to 10' from the location of the existing tower. AT&T would attach six panel antennas on T-arms to the replacement tower.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



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)

Internet: [ct.gov/csc](http://ct.gov/csc)

Daniel F. Caruso

Chairman

March 2, 2007

H. Karina Fournier  
Zoning Department  
T-Mobile  
35 Griffin Road South  
Bloomfield, CT 06002

RE: **EM-T-MOBILE-044-070208** - Omnipoint Communications, Inc. (T-Mobile) notice of intent to modify an existing telecommunications facility located at 259 Commerce Street, East Haven, Connecticut.

Dear Ms. Fournier:

At a public meeting held on February 27, 2007, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated February 8, 2007, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

  
Daniel F. Caruso

Chairman

DFC/MP/laf

c: The Honorable Joseph Maturo, Jr., Mayor, Town of East Haven  
George Mingione, Zoning Enforcement Officer, Town of East Haven  
Michele G. Briggs, New Cingular Wireless PCS, LLC  
Christopher B. Fisher, Esq., Cuddy & Feder LLP



Affirmative Action / Equal Opportunity Employer

# T-Mobile®

## EAST HAVEN SOUTH - GENERATOR ADD

### SITE ID: CT11623B

### 259 COMMERCE ST

### EAST HAVEN, CT 06512

#### GENERAL NOTES

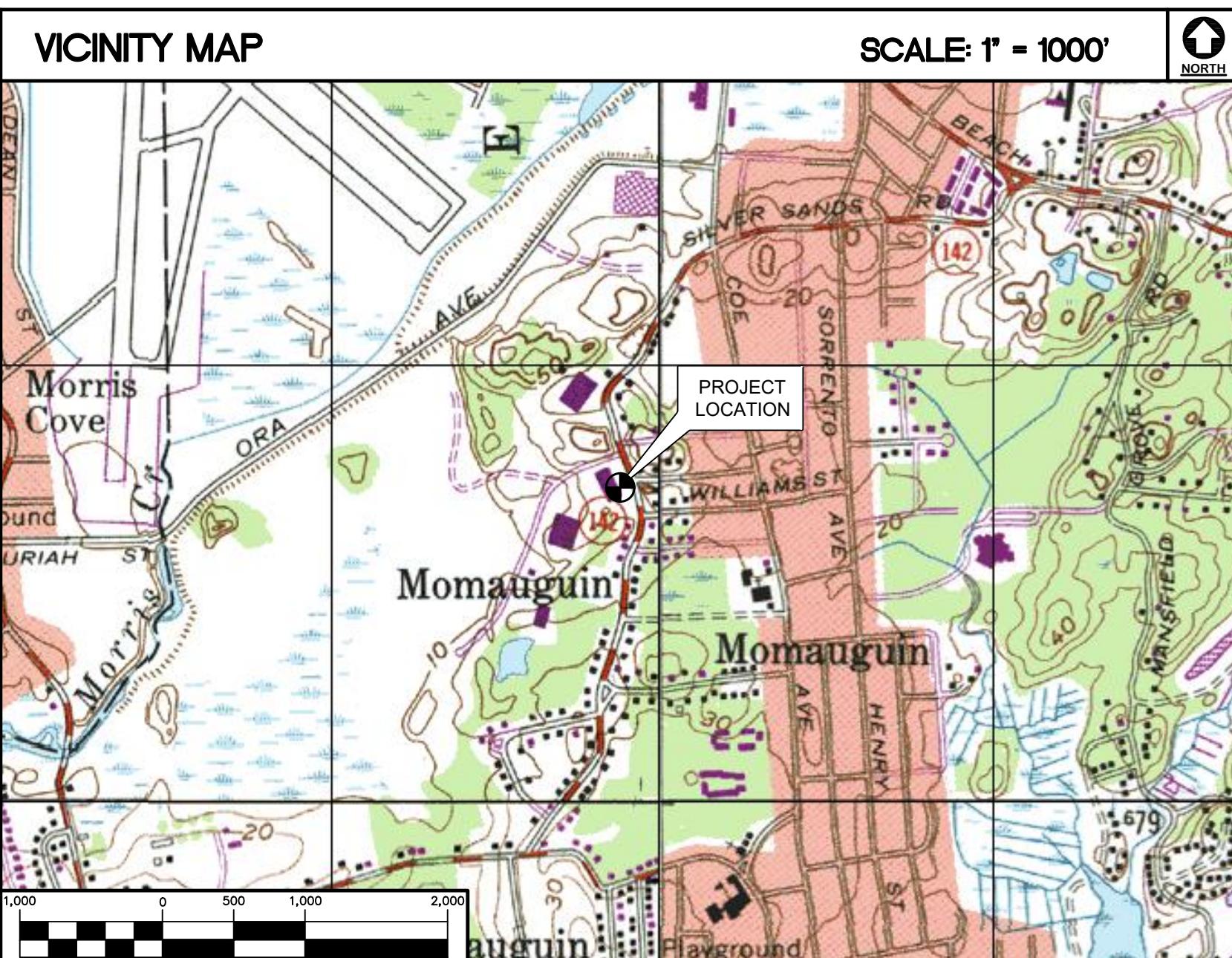
- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2018 CONNECTICUT SUPPLEMENT, INCLUDING THE TIA/EIA-222 REVISION "G" "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND SUPPORTING STRUCTURES." 2017 CONNECTICUT FIRE SAFETY CODE, NATIONAL ELECTRICAL CODE AND 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 NOT 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. 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. 24.76 MI.
- MERGE ONTO I-91 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 I-91 S TOWARD NEW HAVEN. 0.16 MI.
- MERGE ONTO US-1 N VIA EXIT 51 TOWARD EAST LONDON. 7.62 MI.
- MERGE ONTO US-1 N VIA EXIT 51 TOWARD EAST HAVEN. 1.85 MI.
- TURN RIGHT ONTO HEMINGWAY AVE/CT-142. 0.98 MI.
- STAY STRAIGHT TO GO ONTO COE AVE/CT-337. 0.41 MI.
- TAKE THE 2ND RIGHT ONTO SILVER SANDS RD/CT-337. 0.31 MI.
- TAKE THE 1ST RIGHT ONTO COMMERCE ST. 0.02 MI.
- 259 COMMERCE ST, EAST HAVEN, CT 06512-4147, 259 COMMERCE ST IS ON THE LEFT.



#### 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) 48KW DIESEL FUELED BACK-UP AC GENERATOR ON A NEW CONCRETE PAD. (9'-0" x 4'-0")
- REMOVE EXISTING T-MOBILE CONCRETE PAD

#### 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	4
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N-2	ABUTTERS MAP	4
C-1	EQUIPMENT PLANS	4
C-2	TYPICAL EQUIPMENT DETAILS	4
E-1	ELECTRICAL RISER DIAGRAM AND CONDUIT ROUTING	4
E-2	ELECTRICAL SPECIFICATIONS	4

T-MOBILE NORTHEAST LLC  
SITE NAME: 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 7

PROFESSIONAL ENGINEER SEAL				
STATE OF CONNECTICUT PROFESSIONAL ENGINEER TRANSCEND WIRELESS	Transcend Wireless			
4	06/21/22	RTS	TUR	CONSTRUCTION DRAWINGS - REVISED PER NEW ABUTTERS MAP
3	02/01/22	JLD	TUR	CONSTRUCTION DRAWINGS - REVISED PER NEW GENERATOR MODEL
2	05/18/21	RTS	TUR	CONSTRUCTION DRAWINGS - REVISED PER NEW GENERATOR MODEL
0	02/08/21	LA	TUR	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
REV.	DATE	DRAWN BY CHKD BY DESCRIPTION		

## 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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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.

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

GENERAL NOTES  
AND  
SPECIFICATIONS

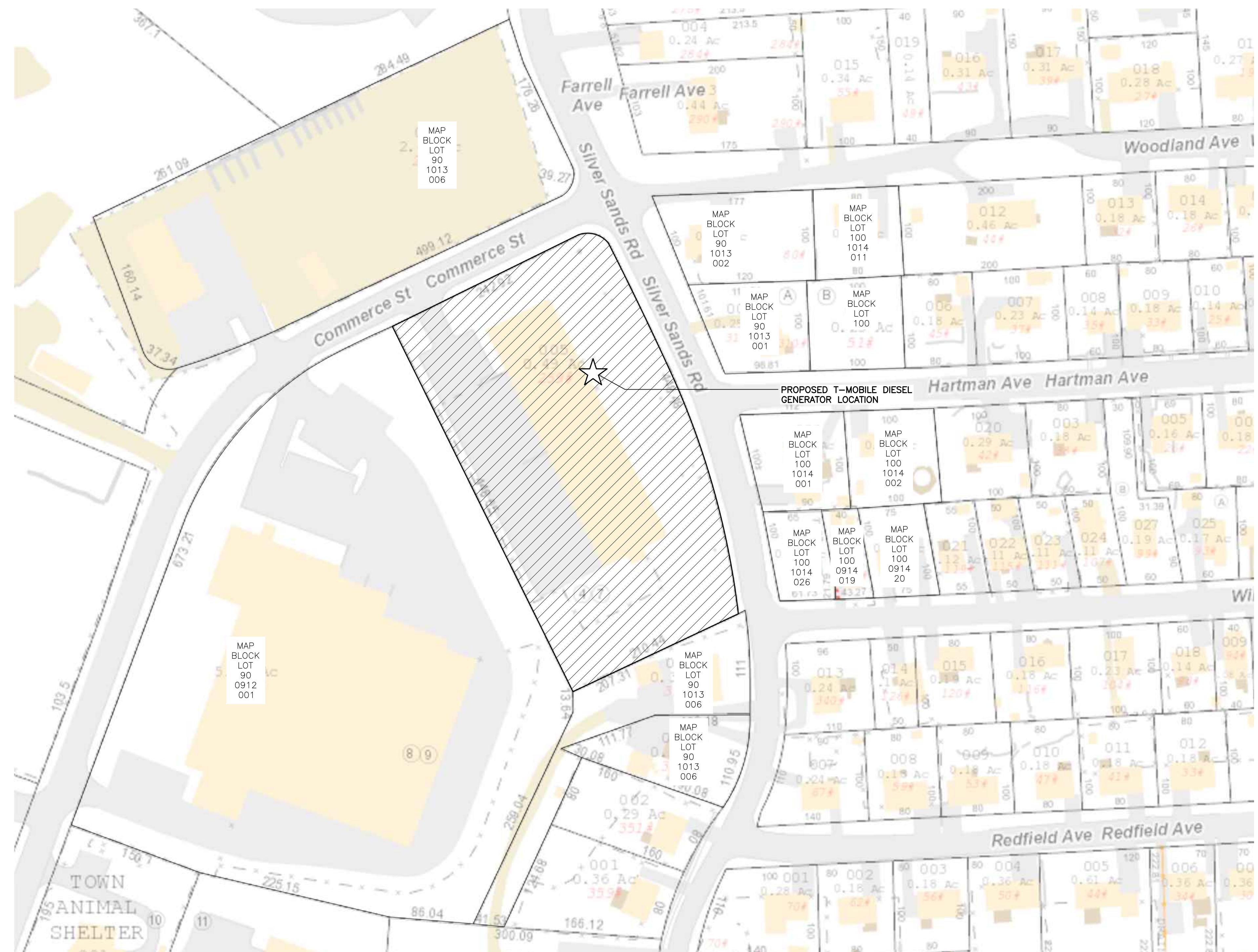
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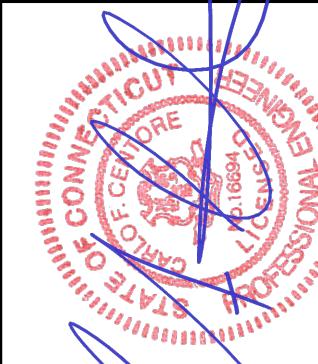
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	3	02/01/22	JLD	TUR	CONSTRUCTION DRAWINGS - REVISED PER NEW GENERATOR MODEL
	2	05/18/21	RTS	TUR	CONSTRUCTION DRAWINGS - REVISED PER NEW GENERATOR MODEL
	0	02/08/21	LA	TUR	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
REV.	DATE	DRAWN BY	CHKD BY	DESCRIPTION	

**T-MOBILE NORTHEAST LLC**  
**SITE NAME: EAST HAVEN SOUTH**  
**SITE ID: CT1623B**  
**259 COMMERCE ST**  
**EAST HAVEN, CT 06512**



ABUTTING PROPERTY LIST			
MAP BLOCK LOT	ZONING	LOCATION	OWNER
90 1013 006	LI-2	260 COMMERCE ST	ROSSANO REALTY LLC
90 0912 001	LI-2	221 COMMERCE ST	AGNL PANE LLC
90 1013 005	LI-2	259 COMMERCE ST	STEPHEN J VIGLIONE
90 0911 004	R-2	331 SILVER SANDS RD	FILOMENA PISCITELLI
90 1013 002	R-1	80 WOODLAND AVE	RITA CAMPANO
90 1013 001	R-1	310 SILVER SANDS RD	ANGELINA PETONITO TRUSTEE
100 1014 001	R-1	324 SILVER SANDS RD	MARIA & SEBASTIANO DIBONA
100 0914 026	R-1	330 SILVER SANDS RD	WILLIAM CANDELA
100 1014 011	R-1	66 WOODLAND AVE	WALDEN R MOORE
100	R-1	51 HARTMAN AVE	BBC DEVELOPMENT LLC
100 1014 002	R-1	46 HARTMAN AVE	LISA & THOMAS DECICCO
100 0914 019	R-1	161 WILLIAM ST	GINA & BRIAN PETANO
100 0914 020	R-1	123 WILLIAM ST	MAIRE ANN MARTOWSKI
90 0913 003	R-2	343 SILVER SANDS RD	SUPPA VINCENZO TRSUTEE

PROFESSIONAL ENGINEER SEAL



T-MOBILE NORTHEAST LLC

**SITE NAME: EAST HAVEN SOUTH**  
**SITE ID: CT11623B**  
**259 COMMERCE ST**  
**EAST HAVEN, CT 06512**

DATE: 08/08/18

SCALE: AS NOTED

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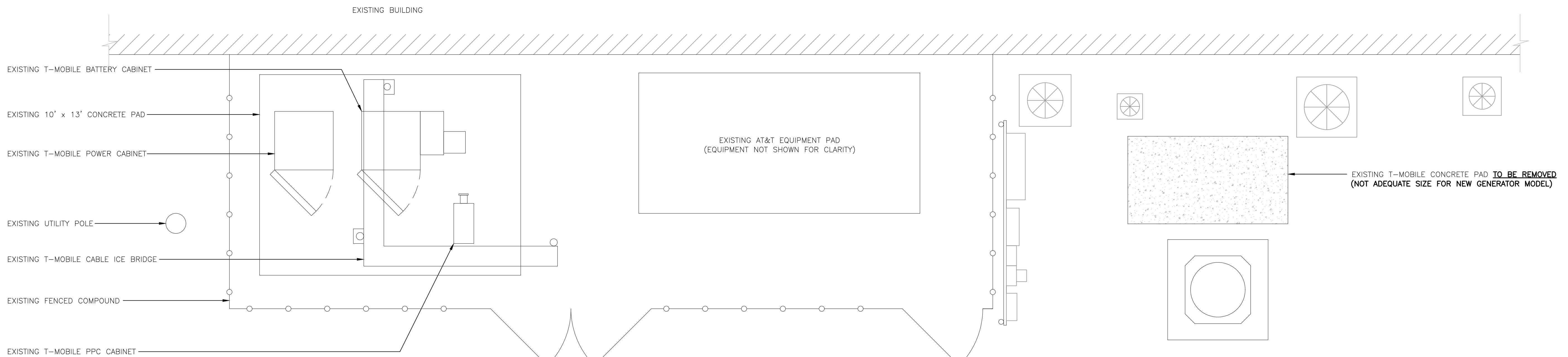
ABUTTERS MAP

N-2

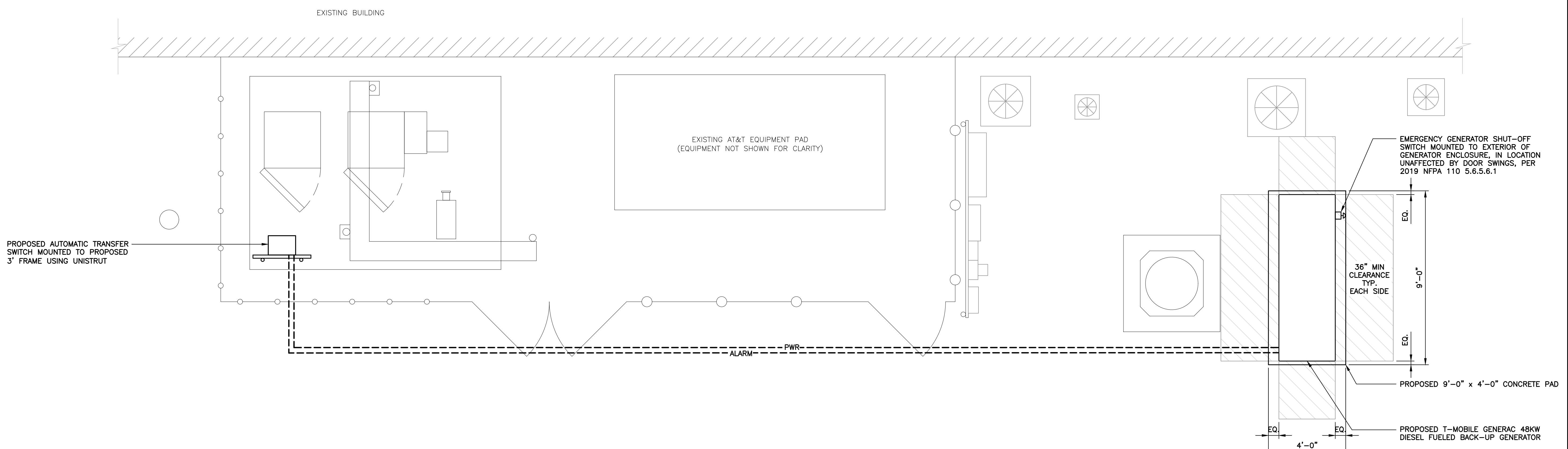
Sheet No. 3 of 7

CONSTRUCTION DRAWINGS - REVISED PER NEW ABUTTERS MAP  
 02/01/22 JLD TUR  
 CONSTRUCTION DRAWINGS - REVISED PER NEW GENERATOR MODEL  
 02/08/21 RTS TUR  
 CONSTRUCTION DRAWINGS - REVISED PER NEW GENERATOR MODEL  
 02/11/18 LA TUR  
 CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION

REV. DATE DRAWN BY CHKD BY DESCRIPTION



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



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

PROFESSIONAL ENGINEER SEAL	
STATE OF CONNECTICUT	RECEIVED T-MOBILE Transferred Wireless
4 06/21/22 RTS	TUR CONSTRUCTION DRAWINGS - REVISED PER NEW ABUTTERS MAP
3 02/01/22 JLD	TUR CONSTRUCTION DRAWINGS - REVISED PER NEW GENERATOR MODEL
2 02/08/21 RTS	TUR CONSTRUCTION DRAWINGS - REVISED PER NEW GENERATOR MODEL
0 08/11/18 LAA	TUR CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
REV. DATE DRAWN BY CHD BY DESCRIPTION	

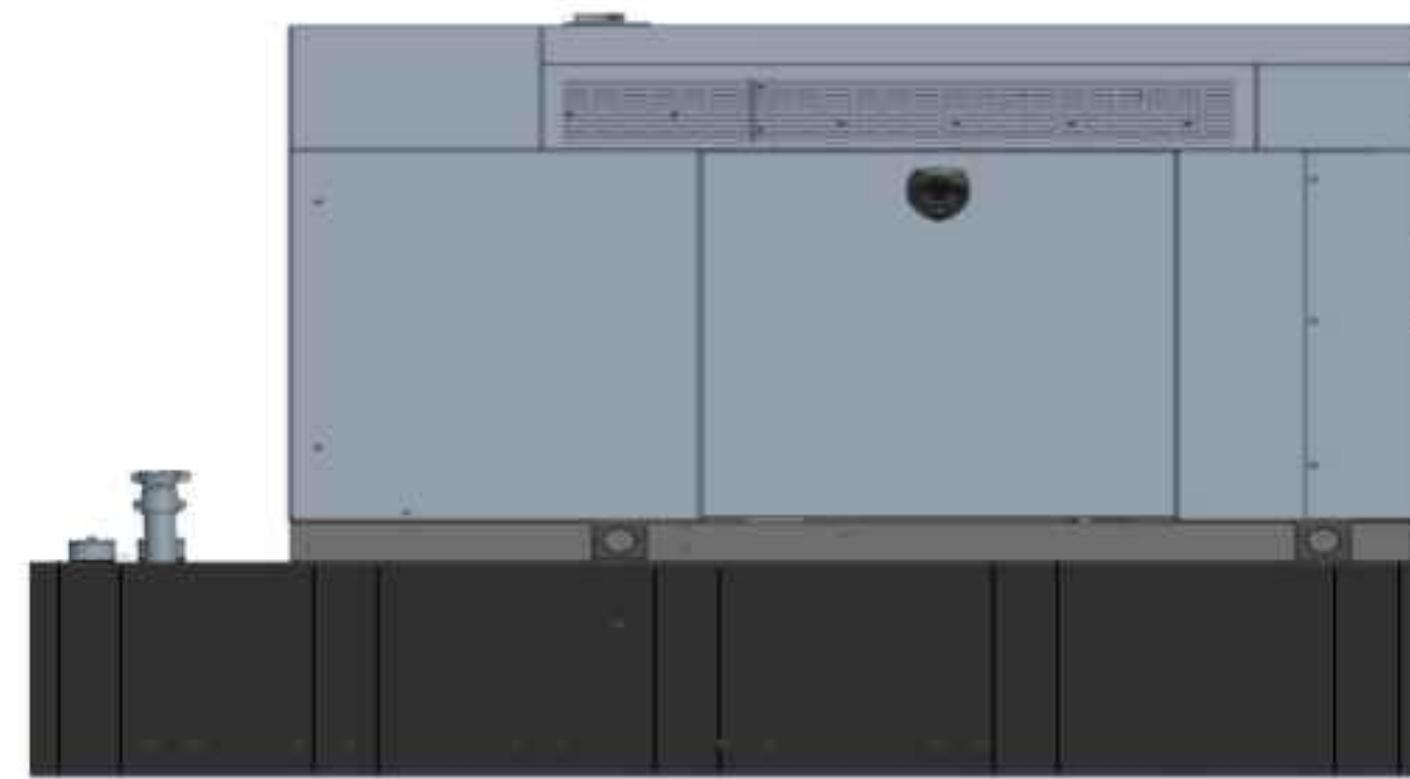
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**T-MOBILE NORTHEAST LLC**  
**SITE NAME: EAST HAVEN SOUTH**  
**SITE ID: CT11623B**  
**259 COMMERCE ST**  
**EAST HAVEN, CT 06512**

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EQUIPMENT PLANS

**C-1**  
Sheet No. 4 of 7



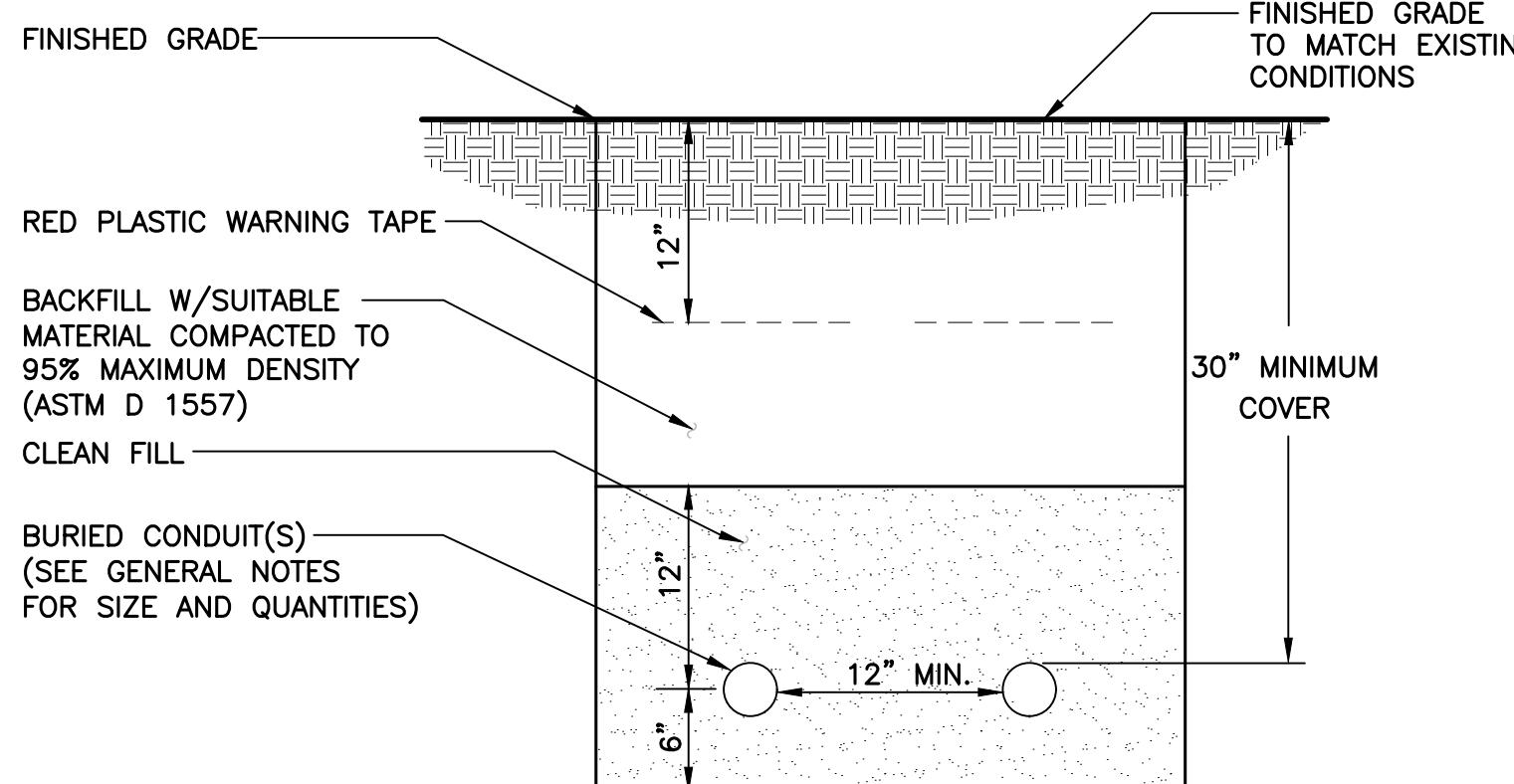
BACKUP POWER GENERATOR						
EQUIPMENT	POWER GENERATED	FUEL	MODEL NUMBER	FUEL TANK SIZE (GAL)	DIMENSIONS	WEIGHT
MAKE: GENERAC MODEL: RD48	48 KW, AC	DIESEL	7194	229	103.4" L x 35.0" W x 91.7" H	2915 LBS.
<b>NOTES:</b>						
1. FUEL LEVEL/SECONDARY CONTAINMENT SHALL BE ALARMED AND IN COMMUNICATION WITH 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.						

**NFPA 704 HAZARD ID LEGEND:**  
 RED: FLAMMABILITY  
 BLUE: HEALTH  
 YELLOW: REACTIVITY  
 WHITE: BLANK



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
<b>NOTES:</b>					
1. CONTRACTOR TO COORDINATE FINAL LOCATION AND MOUNTING CONFIGURATION OF THE AUTOMATIC TRANSFER SWITCH INSTALLATION.					

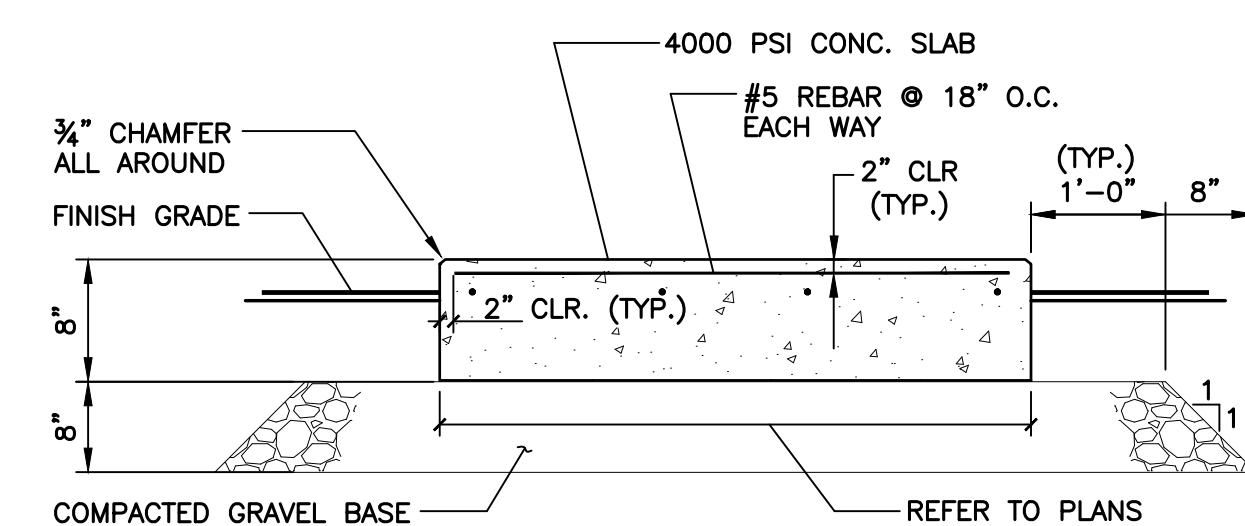
**1 PROPOSED GENERATOR DETAIL**  
C-2 SCALE: NOT TO SCALE



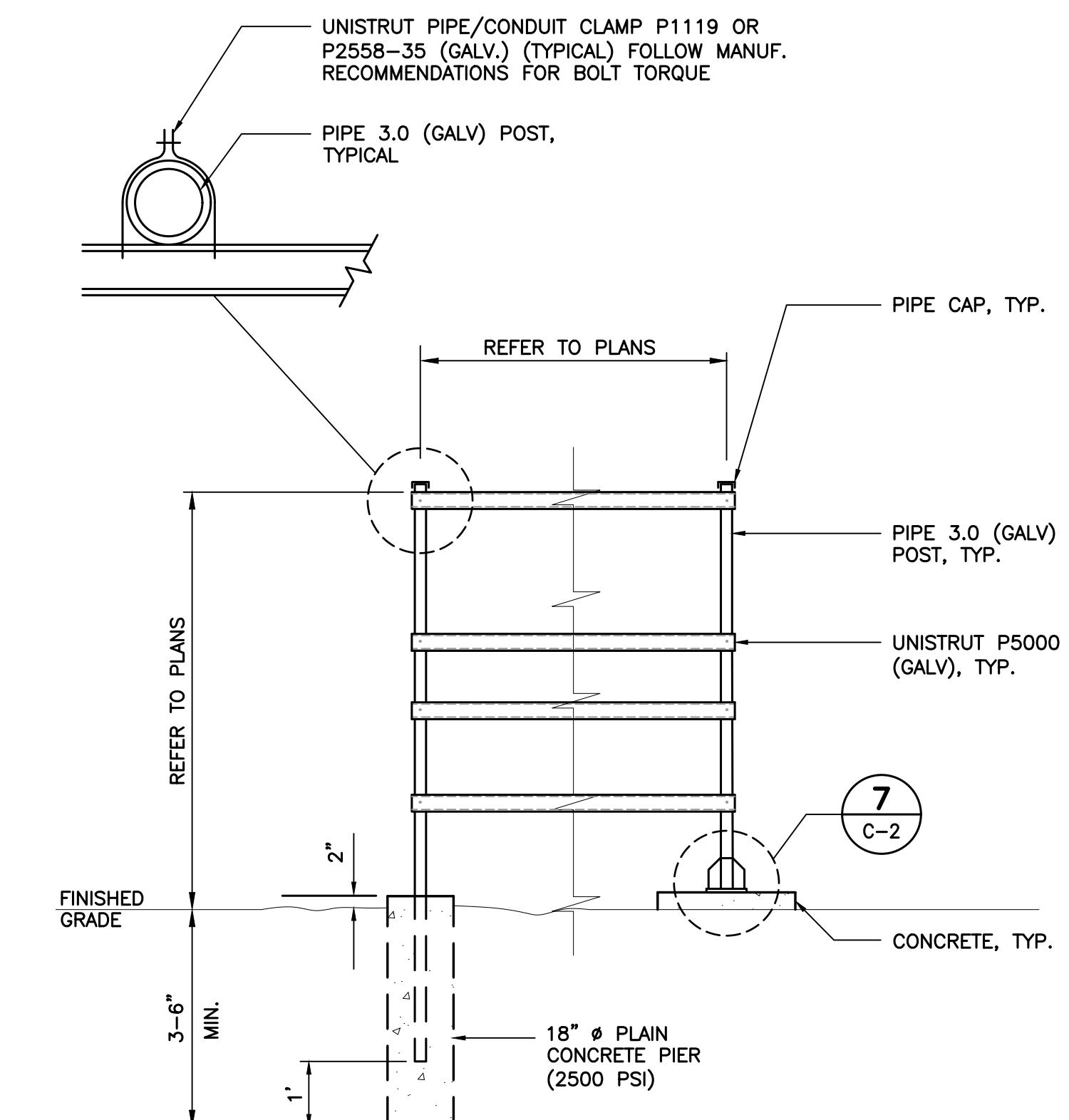
**NOTES:**

1. THE CLEAN FILL SHALL PASS THROUGH A 3/8" MESH SCREEN AND SHALL NOT CONTAIN SHARP STONES. OTHER BACKFILL SHALL NOT CONTAIN ASHES, CINDER, 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.

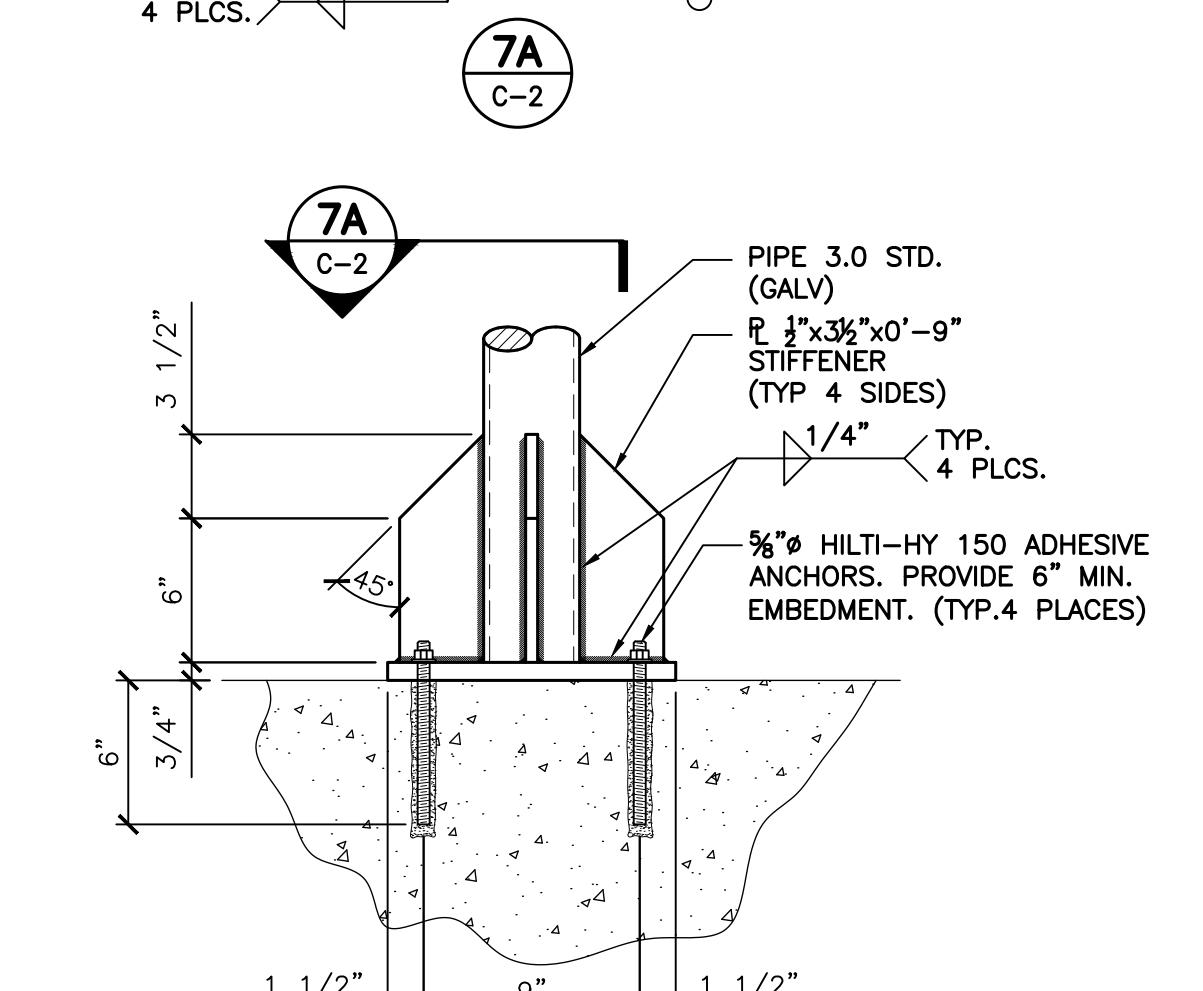
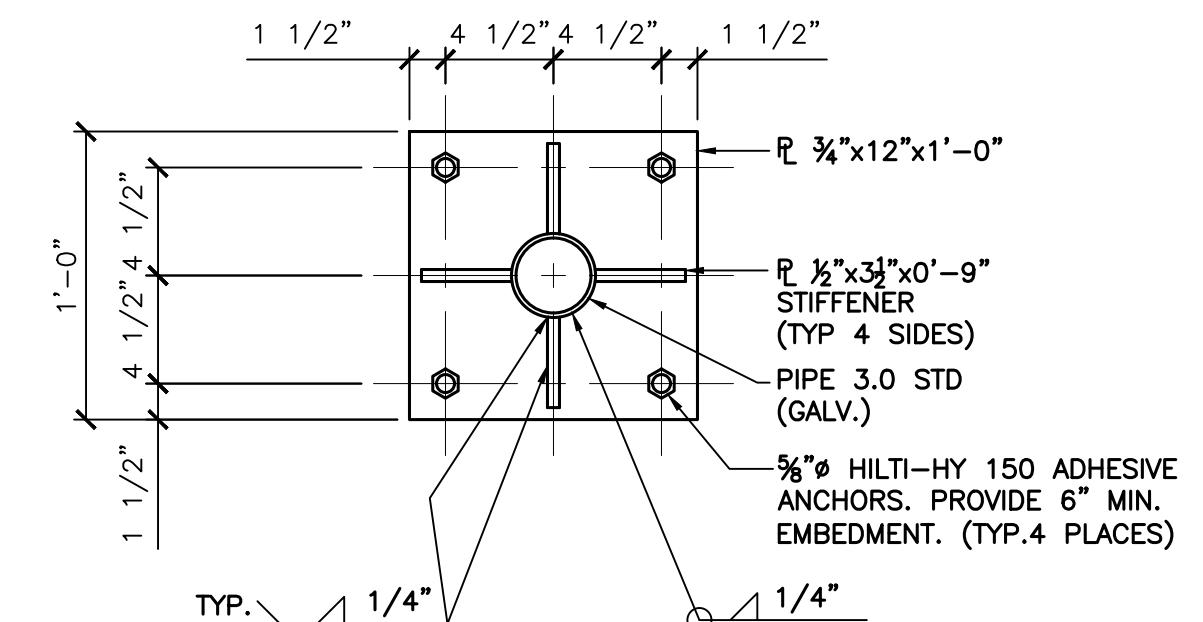
**4 TYPICAL ELECTRICAL/TEL TRENCH DETAIL**  
C-2 SCALE: NOT TO SCALE



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



**6 TYPICAL FRAME MOUNTING DETAIL**  
C-2 SCALE: NOT TO SCALE



**7 FRAME TO CONCRETE CONNECTION DETAIL**  
C-2 SCALE: NOT TO SCALE

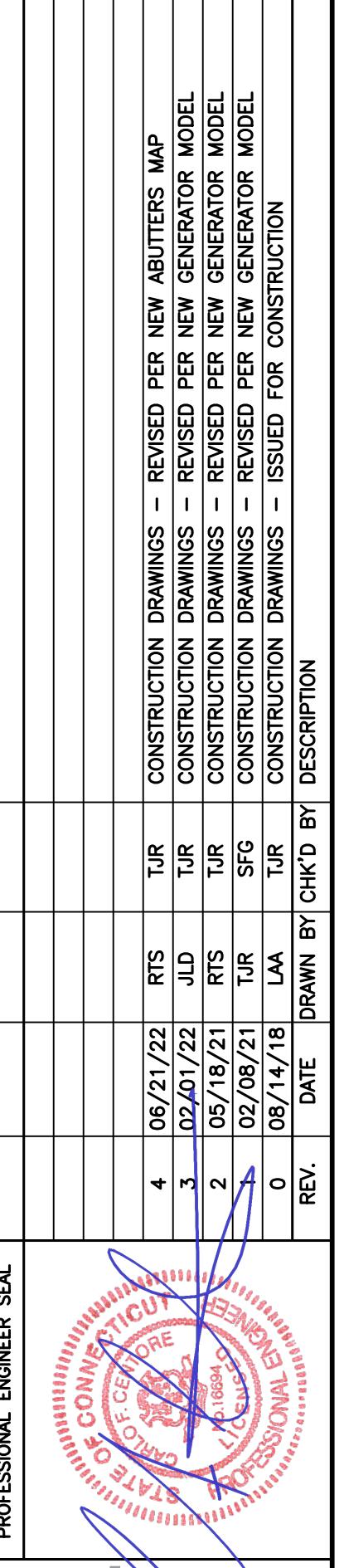
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3 05/18/22 RTS	JLD	TUR	CONSTRUCTION DRAWINGS - REVISED PER NEW GENERATOR MODEL		
2 02/08/21 LAA		TUR	CONSTRUCTION DRAWINGS - REVISED PER NEW GENERATOR MODEL		
0 08/11/18 LAA		TUR	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION		

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**T-MOBILE NORTHEAST LLC**  
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**SITE ID: CTT1623B**  
**259 COMMERCE ST**  
**EAST HAVEN, CT 06512**  
DATE: 08/08/18  
SCALE: AS NOTED  
JOB NO. 18079.34

**TYPICAL EQUIPMENT DETAILS**

**C-2**

PROFESSIONAL ENGINEER SEAL  
  
 STATE OF CONNECTICUT  
 STATE ENGINEER  
 APPROVED  
 DRAWN BY  
 CHECKED BY  
 DESCRIBED BY  
 DRAWN BY  
 DATE  
 REV.  
 CONSTRUCTION DRAWINGS - REVISED PER NEW ABUTTERS MAP  
 (231) 484-1580 Fox  
 (231) 484-8582  
 632 North Bedford Road  
 Berlin, CT 06035  
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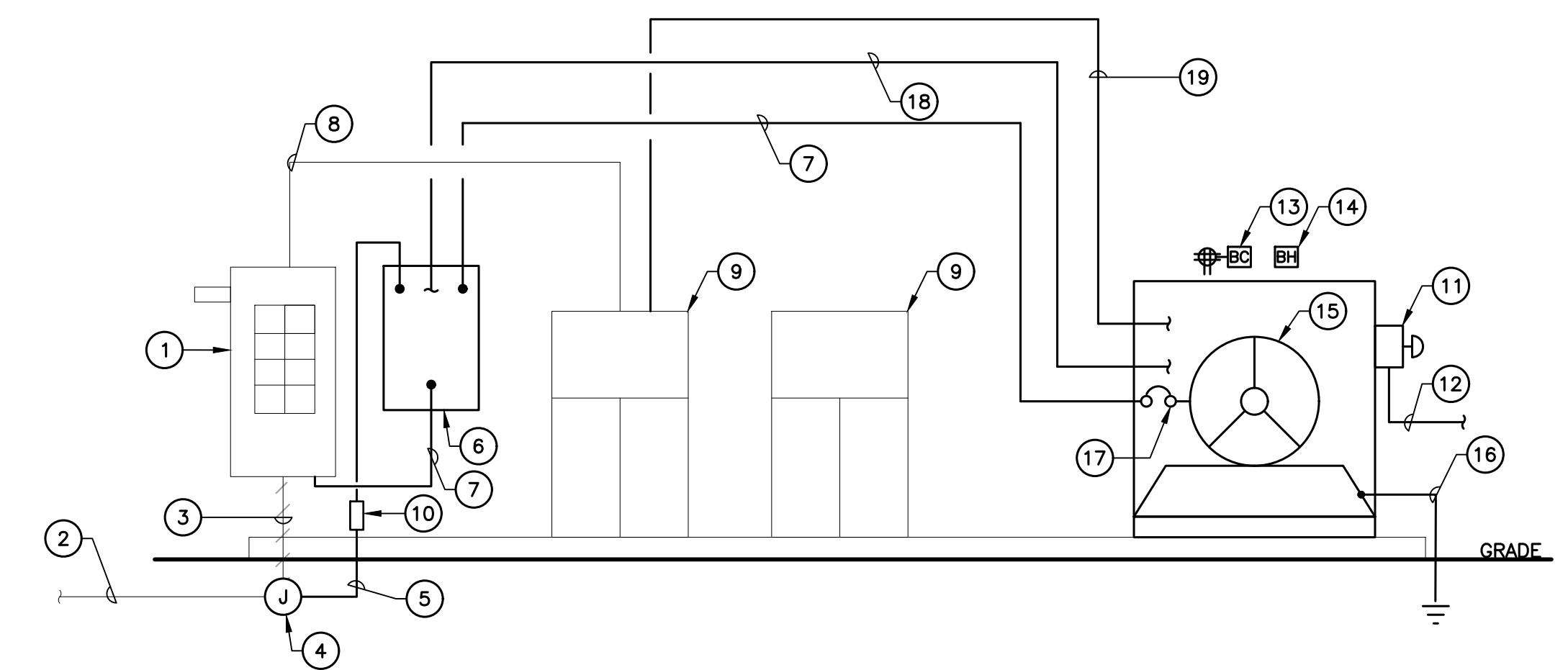
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DATE: 08/08/18  
 SCALE: AS NOTED  
 JOB NO. 18079.34  
 ELECTRICAL RISER  
 DIAGRAM AND  
 CONDUIT ROUTING

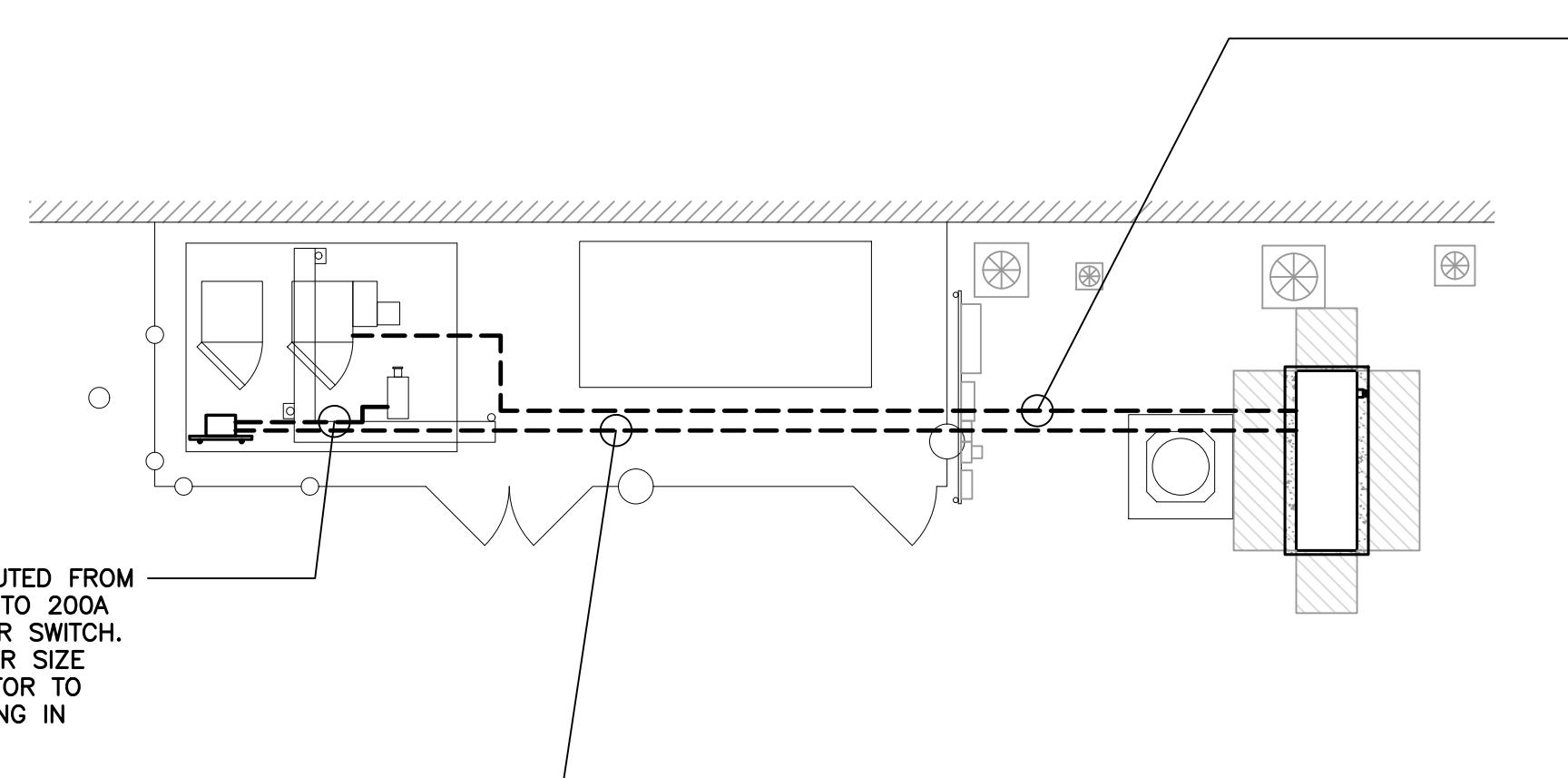
**E-1**  
 Sheet No. 6 of 7

RISER DIAGRAM NOTES	RISER DIAGRAM NOTES
<p>① EXISTING PPC CABINET TO REMAIN.      ② EXISTING POWER CONDUIT AND CONDUCTORS PREVIOUSLY SERVING EXISTING PANEL.      ③ SECTION OF CONDUIT AND CONDUCTORS TO BE REMOVED.      ④ JUNCTION BOX SIZED PER NEC.      ⑤ EXTEND EXISTING CONDUITS AND CONDUCTORS TO NEW ATS.      ⑥ NEW 200A, 2 SOURCE AUTOMATIC TRANSFER SWITCH.      ⑦ (3) #3/0 AWG, (1) #6 AWG GROUND, 2-1/2" CONDUIT.      ⑧ EXISTING CONDUITS AND CONDUCTORS TO REMAIN.      ⑨ EXISTING EQUIPMENT CABINETS TO REMAIN.      ⑩ EXPANSION COUPLING TYPICAL.</p>	<p>⑪ REMOTE GENERATOR SHUT OFF SWITCH IN BREAK GLASS ENCLOSURE MOUNTED TO EXTERIOR OF GENERATOR ENCLOSURE PER 2019 NFPA 110 5.6.5.6.1.      ⑫ 3/4" CONDUIT AND CONDUCTORS REQUIRED FOR PROPER OPERATION OF EMERGENCY GENERATOR SHUT OFF SWITCH.      ⑬ GENERATOR BATTERY CHARGER AND CONVENIENCE GFCI OUTLET WIRED TO EXISTING PANEL OUTLET TO BE MOUNTED IN WEATHERPROOF ENCLOSURE.      ⑭ GENERATOR BLOCK HEATER WIRED TO EXISTING PANEL SERVING T-MOBILE EQUIPMENT.      ⑮ 48KW DIESEL FUELED EMERGENCY BACK UP GENERATOR.      ⑯ GENERATOR GROUNDING PER NEC AND MANUFACTURER'S REQUIREMENTS. BOND TO EXISTING GROUNDING SYSTEM. (MINIMUM OF (1) #2 AWG GROUND)      ⑰ GENERATOR OUTPUT CIRCUIT BREAKER.      ⑱ 1" CONDUIT FOR GENERATOR CONTROL AND SIGNAL WIRING.      ⑲ 1" CONDUIT FOR CABINET ALARM CONNECTION</p>



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

**CONDUIT NOTE:**  
 CONTRACTOR TO VERIFY FINAL CONDUIT ROUTING,  
 LENGTH OF RUN, AND FEASIBILITY.



CONDUIT TO BE ROUTED FROM  
 200A PPC CABINET TO 200A  
 AUTOMATIC TRANSFER SWITCH.  
 REFER TO RISER FOR SIZE  
 QUANTITY. CONTRACTOR TO  
 VERIFY FINAL ROUTING IN  
 FIELD

POWER AND ALARM CONDUITS.  
 CONTRACTOR TO VERIFY FINAL  
 ROUTING IN FIELD. REFER TO  
 RISER FOR SIZE AND QUANTITY

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

## ELECTRICAL SPECIFICATIONS

### SECTION 16010

#### 1.02. GENERAL REQUIREMENTS

- A. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE MADE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES AND REGULATIONS WHICH MAY APPLY AND NOTHING IN THE DRAWINGS OR SPECIFICATIONS SHALL BE INTERPRETED AS AN INFRINGEMENT OF SUCH CODES OR REGULATIONS.
- B. THE ELECTRICAL CONTRACTOR IS TO BE RESPONSIBLE FOR THE COMPLETE INSTALLATION AND COORDINATION OF THE ENTIRE ELECTRICAL SERVICE. ALL ACTIVITIES TO BE COORDINATED THROUGH OWNERS REPRESENTATIVE, DESIGN ENGINEER AND OTHER AUTHORITIES HAVING JURISDICTION OF TRADES.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND PAY ALL FEES THAT MAY BE REQUIRED FOR THE ELECTRICAL WORK AND FOR THE SCHEDULING OF ALL INSPECTIONS THAT MAY BE REQUIRED BY THE LOCAL AUTHORITY.
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE BUILDING OWNER FOR NEW AND/OR DEMOLITION WORK INVOLVED.
- E. NO MATERIAL OTHER THAN THAT CONTAINED IN THE "LATEST LIST OF ELECTRICAL FITTINGS" APPROVED BY THE UNDERWRITERS' LABORATORIES, SHALL BE USED IN ANY PART OF THE WORK. ALL MATERIAL FOR WHICH LABEL SERVICE HAS BEEN ESTABLISHED SHALL BEAR THE U.L. LABEL.
- F. THE CONTRACTOR SHALL GUARANTEE ALL NEW WORK FOR A PERIOD OF ONE YEAR FROM THE ACCEPTANCE DATE BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WARRANTIES FROM ALL EQUIPMENT MANUFACTURERS FOR SUBMISSION TO THE OWNER.
- G. DRAWINGS INDICATE GENERAL ARRANGEMENT OF WORK INCLUDED IN CONTRACT. CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE MODIFICATIONS TO THE LAYOUT OF THE WORK TO PREVENT CONFLICT WITH WORK OF OTHER TRADES AND FOR THE PROPER INSTALLATION OF WORK. CHECK ALL DRAWINGS AND VISIT JOB SITE TO VERIFY SPACE AND TYPE OF EXISTING CONDITIONS IN WHICH WORK WILL BE DONE, PRIOR TO SUBMITTAL OF BID.
- H. THE ELECTRICAL CONTRACTOR SHALL SUPPLY THREE (3) COMPLETE SETS OF APPROVED DRAWINGS, ENGINEERING DATA SHEETS, MAINTENANCE AND OPERATING INSTRUCTION MANUALS FOR ALL SYSTEMS AND THEIR RESPECTIVE EQUIPMENT. THESE MANUALS SHALL BE INSERTED IN VINYL COVERED 3-RING BINDERS AND TURNED OVER TO OWNER'S REPRESENTATIVE ONE (1) WEEK PRIOR TO FINAL PUNCH LIST.
- I. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER AND WILL BE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
- J. ALL EQUIPMENT AND MATERIALS TO BE INSTALLED SHALL BE NEW, UNLESS OTHERWISE NOTED.
- K. BEFORE FINAL PAYMENT, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF PRINTS (AS-BUILT), LEGIBLY MARKED IN RED PENCIL TO SHOW ALL CHANGES FROM THE ORIGINAL PLANS.
- L. PROVIDE TEMPORARY POWER AND LIGHTING IN WORK AREAS AS REQUIRED.
- M. SHOP DRAWINGS:
  - 1. CONTRACTOR SHALL SUBMIT SIX (6) COPIES OF SHOP DRAWINGS ON ALL EQUIPMENT AND MATERIALS PROPOSED FOR USE ON THIS PROJECT, GIVING ALL DETAILS, WHICH INCLUDE DIMENSIONS, CAPACITIES, ETC.
  - 2. CONTRACTOR SHALL SUBMIT SIX (6) COPIES OF ALL TEST REPORTS CALLED FOR IN THE SPECIFICATIONS AND DRAWINGS.
- N. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH OWNER'S SPECIFICATIONS, AND REQUIREMENTS OF ALL LOCAL AUTHORITIES HAVING JURISDICTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH APPROPRIATE INDIVIDUALS TO OBTAIN ALL SUCH SPECIFICATIONS AND REQUIREMENTS. NOTHING CONTAINED IN, OR OMITTED FROM, THESE DOCUMENTS SHALL RELIEVE CONTRACTOR FROM THIS OBLIGATION.

### SECTION 16111

#### 1.01. CONDUITS

- A. MINIMUM CONDUIT SIZE FOR BRANCH CIRCUITS, LOW VOLTAGE CONTROL AND ALARM CIRCUITS SHALL BE 3/4". CONDUITS SHALL BE PROPERLY FASTENED AS REQUIRED BY THE N.E.C.
- B. THE INTERIOR OF RACEWAYS/ENCLOSURES INSTALLED UNDERGROUND SHALL BE CONSIDERED TO BE WET LOCATION. INSULATED CONDUCTORS SHALL BE LISTED FOR USE IN WET LOCATIONS. PROVIDE WEATHERPROOF CONSTRUCTION IN WET LOCATIONS.
- C. CONDUIT INSTALLED UNDERGROUND SHALL BE INSTALLED TO MEET MINIMUM COVER REQUIREMENTS OF TABLE 300.5.
- D. PROVIDE RIGID GALVANIZED STEEL CONDUIT (RMC) FOR THE FIRST 10 FOOT SECTION WHEN LEAVING A BUILDING OR SECTIONS PASSING THROUGH FLOOR SLABS
- E. ONLY LISTED PVC CONDUIT AND FITTINGS ARE PERMITTED FOR THE INSTALLATION OF ELECTRICAL CONDUCTORS, SUITABLE FOR UNDERGROUND APPLICATIONS.

CONDUIT SCHEDULE SECTION 16111			
CONDUIT TYPE	NEC REFERENCE	APPLICATION	MIN. BURIAL DEPTH (PER NEC TABLE 300.5) <sup>23</sup>
EMT	ARTICLE 358	INTERIOR CIRCUITING, EQUIPMENT ROOMS, SHELTERS	N/A
RMC, RIGID GALV. STEEL	ARTICLE 344, 300.5, 300.50	ALL INTERIOR/ EXTERIOR CIRCUITING, ALL UNDERGROUND INSTALLATIONS.	6 INCHES
PVC, SCHEDULE 40	ARTICLE 352, 300.5, 300.50	INTERIOR/ EXTERIOR CIRCUITING AND GROUNDING SYSTEMS, UNDERGROUND INSTALLATIONS, WHERE NOT SUBJECT TO PHYSICAL DAMAGE. <sup>1</sup>	18 INCHES
PVC, SCHEDULE 80	ARTICLE 352, 300.5, 300.50	INTERIOR/ EXTERIOR CIRCUITING AND GROUNDING SYSTEMS, UNDERGROUND INSTALLATIONS, WHERE SUBJECT TO PHYSICAL DAMAGE. <sup>1</sup>	18 INCHES
LIQUID TIGHT FLEX. METAL	ARTICLE 350	SHORT LENGTHS (MAX. 3FT.) WIRING TO VIBRATING EQUIPMENT IN WET LOCATIONS.	N/A
FLEX. METAL	ARTICLE 348	SHORT LENGTHS (MAX. 3FT.) WIRING TO VIBRATING EQUIPMENT IN WET LOCATIONS.	N/A

<sup>1</sup> PHYSICAL DAMAGE IS SUBJECT TO THE AUTHORITY HAVING JURISDICTION.

<sup>2</sup> UNDERGROUND CONDUIT INSTALLED UNDER ROADS, HIGHWAYS, DRIVEWAYS, PARKING LOTS SHALL HAVE MINIMUM DEPTH OF 24".

<sup>3</sup> WHERE SOLID ROCK PREVENTS COMPLIANCE WITH MINIMUM COVER DEPTHS, WIRING SHALL BE INSTALLED IN PERMITTED RACEWAY FOR DIRECT BURIAL. THE RACEWAY SHALL BE COVERED BY A MINIMUM OF 2' OF CONCRETE EXTENDING DOWN TO ROCK.

### SECTION 16123

#### 1.01. CONDUCTORS

- A. ALL CONDUCTORS SHALL BE TYPE THWN (INT. APPLICATION) AND XHHW (EXT. APPLICATION). 75 DEGREE C, 600 VOLT INSULATION, SOFT ANNEALED STRANDED COPPER. #10 AWG AND SMALLER SHALL BE SPLICED USING ACCEPTABLE SOLDERLESS PRESSURE CONNECTORS. #8 AWG AND LARGER SHALL BE SPLICED USING COMPRESSION SPLIT-BOLT TYPE CONNECTORS. #12 AWG SHALL BE THE MINIMUM SIZE CONDUCTOR FOR LINE VOLTAGE BRANCH CIRCUITS. REFER TO PANEL SCHEDULE FOR BRANCH CIRCUIT CONDUCTOR SIZE(S). CONDUCTORS SHALL BE COLOR CODED FOR CONSISTENT PHASE IDENTIFICATION:

LINE	COLOR	COL. LINE	277/480V
A	BLACK	BROWN	
B	RED	ORANGE	
C	BLUE	YELLOW	
N	CONTINUOUS WHITE	GREY	
G	CONTINUOUS GREEN	GREEN WITH YELLOW STRIPE	

- B. MINIMUM BENDING RADIUS FOR CONDUCTORS SHALL BE 12 TIMES THE LARGEST DIAMETER OF BRANCH CIRCUIT CONDUCTOR.

### SECTION 16130

#### 1.01. BOXES

- A. FURNISH AND INSTALL OUTLET BOXES FOR ALL DEVICES, SWITCHES, RECEPTACLES, ETC.. BOXES TO BE ZINC COATED STEEL.
- B. FURNISH AND INSTALL PULL BOXES IN MAIN FEEDERS RUNS WHERE REQUIRED. PULL BOXES SHALL BE GALVANIZED STEEL WITH SCREW REMOVABLE COVERS, SIZE AND QUANTITY AS REQUIRED. PROVIDE WEATHERPROOF CONSTRUCTION IN WET LOCATIONS.

### SECTION 16140

#### 1.01. WIRING DEVICES

- A. THE FOLLOWING LIST IS PROVIDED TO CONVEY THE QUALITY AND RATING OF WIRING DEVICES WHICH ARE TO BE INSTALLED. A COMPLETE LIST OF ALL DEVICES MUST BE SUBMITTED BEFORE INSTALLATION FOR APPROVAL.
  - 1. 15 MINUTE TIMER SWITCH - INTERMATIC #FF15M (INTERIOR LIGHTS)
  - 2. DUPLEX RECEPTACLE - P&S #2095 (GFCI) SPECIFICATION GRADE
  - 3. SINGLE POLE SWITCH - P&S #CSB20AC2 (20A-120V HARD USE) SPECIFICATION GRADE
  - 4. DUPLEX RECEPTACLE - P&S #5362 (20A-120V HARD USE) SPECIFICATION GRADE
- B. PLATES - ALL PLATES USED SHALL BE CORROSION RESISTANT TYPE 304 STAINLESS STEEL. PLATES SHALL BE FROM SAME MANUFACTURER AS SWITCHES AND RECEPTACLES. PROVIDE WEATHERPROOF HOUSING FOR DEVICES LOCATED IN WET LOCATIONS.
- C. OTHER MANUFACTURERS OF THE SWITCHES, RECEPTACLES AND PLATES MAY BE SUBMITTED FOR APPROVAL BY THE ENGINEER.

### SECTION 16170

#### 1.01. DISCONNECT SWITCHES

- A. FUSIBLE AND NON-FUSIBLE, 600V, HEAVY DUTY DISCONNECT SWITCHES SHALL BE AS MANUFACTURED BY SQUARE "D". PROVIDED FUSES AS CALLED FOR ON THE CONTRACT DRAWINGS. AMPERE RATING SHALL BE CONSISTENT WITH LOAD BEING SERVED. DISCONNECT SWITCH COVER SHALL BE MECHANICALLY INTERLOCKED TO PREVENT COVER FROM OPENING WHEN THE SWITCH IS IN THE "ON" POSITION. EXTERIOR APPLICATIONS SHALL BE NEMA 3R CONSTRUCTION WITH PADLOCK FEATURE.

### SECTION 16190

#### 1.01. SEISMIC RESTRAINT

- A. ALL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH ZONE 2 SEISMIC REQUIREMENTS.

### SECTION 16195

#### 1.01. LABELING AND IDENTIFICATION NOMENCLATURE FOR ELECTRICAL EQUIPMENT

- A. CONTRACTOR SHALL FURNISH AND INSTALL NON-METALLIC ENGRAVED BACK-LIT NAMEPLATES ON ALL PANELS AND MAJOR ITEMS OF ELECTRICAL EQUIPMENT.
- B. LETTERS TO BE WHITE ON BLACK BACKGROUND WITH LETTERS 1-1/2 INCH HIGH WITH 1/4 INCH MARGIN.
- C. IDENTIFICATION NOMENCLATURE SHALL BE IN ACCORDANCE WITH OWNER'S STANDARDS.

### SECTION 16450

#### 1.01. GROUNDING

- A. ALL NON-CURRENT CARRYING PARTS OF THE ELECTRICAL AND TELEPHONE CONDUIT SYSTEMS SHALL BE MECHANICALLY AND ELECTRICALLY CONNECTED TO PROVIDE AN INDEPENDENT RETURN PATH TO THE EQUIPMENT GROUNDING SOURCES.
- B. GROUNDING SYSTEM WILL BE IN ACCORDANCE WITH THE LATEST ACCEPTABLE EDITION OF THE NATIONAL ELECTRICAL CODE AND REQUIREMENTS PER LOCAL INSPECTOR HAVING JURISDICTION.

#### C. GROUNDING OF PANELBOARDS:

- 1. PANELBOARD SHALL BE GROUNDED BY TERMINATING THE PANELBOARD FEEDER'S EQUIPMENT GROUND CONDUCTOR TO THE EQUIPMENT GROUND BAR KIT(S) LUGGED TO THE CABINET. ENSURE THAT THE SURFACE BETWEEN THE KIT AND CABINET ARE BARE METAL TO BARE METAL. PRIME AND PAINT OVER TO PREVENT CORROSION.
- 2. CONDUIT(S) TERMINATING INTO THE PANELBOARD SHALL HAVE GROUNDING TYPE BUSHINGS. THE BUSHINGS SHALL BE BONDED TOGETHER WITH BARE #10 AWG COPPER CONDUCTOR WHICH IN TURN IS TERMINATED INTO THE PANELBOARD'S EQUIPMENT GROUND BAR KIT(S).

#### D. EQUIPMENT GROUNDING CONDUCTOR:

- 1. EACH EQUIPMENT GROUND CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. ARTICLE 250-122.
- 2. THE MINIMUM SIZE OF EQUIPMENT GROUND CONDUCTOR SHALL BE #12 AWG COPPER.
- 3. EACH FEEDER OR BRANCH CIRCUIT SHALL HAVE EQUIPMENT GROUND CONDUCTOR(S) INSTALLED IN THE SAME RACEWAY(S).

#### E. CELLULAR GROUNDING SYSTEM:

- CONTRACTOR SHALL PROVIDE A CELLULAR GROUNDING SYSTEM WITH THE MAXIMUM AC RESISTANCE TO GROUND OF 10 OHM BETWEEN ANY POINT ON THE GROUNDING SYSTEM AS MEASURED BY 3-POINT GROUNDING TEST. (REFER TO SECTION 16960).

PROVIDE THE CELLULAR GROUNDING SYSTEM AS SPECIFIED ON DRAWINGS, INCLUDING, BUT NOT LIMITED TO:

- 1. GROUND BARS
- 2. EXTERIOR GROUNDING (WHERE REQUIRED DUE TO MEASURED AC RESISTANCE GREATER THAN SPECIFIED).
- 3. ANTENNA GROUND CONNECTIONS AND PLATES.

- F. CONTRACTOR, AFTER COMPLETION OF THE COMPLETE GROUNDING SYSTEM BUT PRIOR TO CONCEALMENT/BURIAL OF SAME, SHALL NOTIFY OWNER'S PROJECT ENGINEER WHO WILL HAVE A DESIGN ENGINEER VISIT SITE AND MAKE A VISUAL INSPECTION OF THE GROUNDING GRID AND CONNECTIONS OF THE SYSTEM.

- G. ALL EQUIPMENT SHALL BE BONDED TO GROUND AS REQUIRED BY N.E.C., MFG. SPECIFICATIONS, AND OWNER'S SPECIFICATIONS.

### SECTION 16470

#### 1.01. DISTRIBUTION EQUIPMENT

- A. REFER TO CONTRACT DRAWINGS FOR DETAILS AND SCHEDULES.

### SECTION 16477

#### 1.01. FUSES

- A. FUSES SHALL BE NONRENEWABLE TYPE AS MANUFACTURED BY "BUSSMAN" OR APPROVED EQUAL. FUSES RATED TO 1/10 AMPERE UP TO 600 AMPERES SHALL BE EQUIVALENT TO BUSSMAN TYPE LPN-RK (250V UL CLASS RK1, LOW PEAK, DUAL ELEMENT, TIME-DELAY FUSES. FUSES SHALL HAVE SEPARATE SHORT CIRCUIT AND OVERLOAD ELEMENTS AND HAVE AN INTERRUPTING RATING OF 200 KAIC. UPON COMPLETION OF WORK, PROVIDE ONE SPARE SET OF FUSES FOR EACH TYPE INSTALLED.

### SECTION 16960

#### 1.01. TESTS BY INDEPENDENT ELECTRICAL TESTING FIRM

- A. CONTRACTOR SHALL RETAIN THE SERVICES OF A LOCAL INDEPENDENT ELECTRICAL TESTING FIRM (WITH MINIMUM 5 YEARS COMMERCIAL EXPERIENCE IN THE ELECTRICAL TESTING INDUSTRY) AS SPECIFIED BY OWNER TO PERFORM:

TEST 1: THERMAL OVERLOAD AND MAGNETIC TRIP TEST, AND CABLE INSULATION TEST FOR ALL CIRCUIT BREAKERS RATED 100 AMPS OR GREATER.

TEST 2: RESISTANCE TO GROUND TEST ON THE CELLULAR GROUNDING SYSTEM.

THE TESTING FIRM SHALL INCLUDE THE FOLLOWING INFORMATION WITH THE REPORT:

- 1. TESTING PROCEDURE INCLUDING THE MAKE AND MODEL OF TEST EQUIPMENT.
- 2. CERTIFICATION OF TESTING EQUIPMENT CALIBRATION WITHIN SIX (6) MONTHS OF DATE OF TESTING. INCLUDE CERTIFICATION LAB ADDRESS AND TELEPHONE NUMBER.
- 3. GRAPHICAL DESCRIPTION OF TESTING METHOD ACTUALLY IMPLEMENTED.
- B. THESE TESTS SHALL BE PERFORMED IN THE PRESENCE AND TO THE SATISFACTION OF OWNER'S CONSTRUCTION REPRESENTATIVE. TESTING DATA SHALL BE INITIALED AND DATED BY THE CONSTRUCTION REPRESENTATIVE AND INCLUDED WITH THE WRITTEN REPORT/ANALYSIS.
- C. THE CONTRACTOR SHALL FORWARD SIX (6) COPIES OF THE INDEPENDENT ELECTRICAL TESTING FIRM'S REPORT/ANALYSIS TO ENGINEER A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO THE JOB TURNOVER.
- D. CONTRACTOR TO PROVIDE A MINIMUM OF ONE (1) WEEK NOTICE TO OWNER AND ENGINEER FOR ALL TESTS REQUIRING WITNESSING.

### SECTION 16961

#### 1.01. TESTS BY CONTRACTOR

- A. ALL TESTS AS REQUIRED UPON COMPLETION OF WORK, SHALL BE MADE BY THIS CONTRACTOR. THESE SHALL BE CONTINUITY AND INSULATION TESTS; TEST TO DETERMINE THE QUALITY OF MATERIALS, ETC. AND SHALL BE MADE IN ACCORDANCE WITH N.E.C. RECOMMENDATIONS. ALL FEEDERS AND BRANCH CIRCUIT WIRING (EXCEPT CLASS 2 SIGNAL CIRCUITS) MUST BE TESTED FREE FROM SHORT CIRCUIT AND GROUND FAULT CONDITIONS AT 500V IN A REASONABLY DRY AMBIENT OF APPROXIMATELY 70 DEGREES F.

- B. CONTRACTOR SHALL PERFORM LOAD PHASE BALANCING TESTS. CIRCUITS SHALL BE CONNECTED TO THE PANELBOARDS SO THAT THE NEW LOAD IS DISTRIBUTED AS EQUALLY AS POSSIBLE BETWEEN EACH LOAD AND NEUTRAL. 10% SHALL BE CONSIDERED AS A REASONABLE AND ACCEPTABLE ALLOWANCE. BRANCH CIRCUITS SHALL BE BALANCED ON THEIR OWN PANELBOARDS; FEEDER LOADS SHALL, IN TURN, BE BALANCED ON THE SERVICE EQUIPMENT. REASONABLE LOAD TEST SHALL BE ARRANGED TO VERIFY LOAD BALANCE IF REQUESTED BY THE ENGINEER.

- C. ALL TESTS, UPON REQUEST, SHALL BE REPEATED IN THE PRESENCE OF OWNER'S REPRESENTATIVE. ALL TESTS SHALL BE DOCUMENTED AND TURNED OVER TO OWNER. OWNER SHALL HAVE THE AUTHORITY TO STOP ANY OF THE WORK NOT BEING PROPERLY INSTALLED. ALL SUCH DETECTED WORK SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER AND THE TESTS SHALL BE REPEATED.

T-MOBILE NORTHEAST LLC

SITE NAME: EAST HAVEN SOUTH  
SITE ID: CTT1623B  
259 COMMERCE ST  
EAST HAVEN, CT 06512

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

ELECTRICAL  
SPECIFICATIONS

# Protector™ Series

# GENERAC®

## Diesel Generator Set

### INCLUDES:

- Two Line LCD Multilingual Digital Evolution™ Controller (English/Spanish/French/Portuguese) with external viewing window for easy indication of generator status and breaker position.
- Isochronous Electronic Governor
- Sound Attenuated Aluminum Enclosure
- Smart Battery Charger
- UV/Ozone Resistant Hoses
- $\pm 1\%$  Voltage Regulation
- Integrated Base Tank Provides Up to 40 Hours of Run Time
- 5 Year Limited Warranty\*
- UL 2200 / UL142 / ULC S601 Listed
- Meets code requirements for External Vent and Fill

### Standby Power Rating

Model RD015 - 15 kW 60 Hz

Model RD020 - 20 kW 60 Hz

Model RD030 - 30 kW 60 Hz

Model RD048 - 48 kW 60 Hz (single phase only)

Model RD050 - 50 kW 60 Hz (three phase only)



\*Built in the USA using domestic and foreign parts

Meets EPA Emission Regulations  
CA/MA Emissions Compliant

\* 5 year warranty applicable to U.S. and Territories/Canada. International warranty is 3 year limited.

## FEATURES

- **INNOVATIVE DESIGN & PROTOTYPE TESTING** are key components of GENERAC'S success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.
- **TEST CRITERIA:**
  - ✓ PROTOTYPE TESTED
  - ✓ SYSTEM TORSIONAL TESTED
  - ✓ NEMA MG1-22 EVALUATION
  - ✓ MOTOR STARTING ABILITY
- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION.** This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Digital voltage regulation at  $\pm 1\%$ .
- **SINGLE SOURCE SERVICE RESPONSE** from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.
- **GENERAC TRANSFER SWITCHES.** Long life and reliability are synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is that the GENERAC product line includes its own transfer systems and controls for total system compatibility.

# GENERAC®



15 • 20 • 30 • 48 • 50 kW

application &amp; engineering data

## GENERATOR SPECIFICATIONS

Type	Synchronous
Rotor Insulation Class	H (15 & 20 kW) or F (30, 48 & 50 kW)
Stator Insulation Class	H
Telephone Interference Factor (TIF)	<50
Alternator Output Leads 1-Phase	3 wire
Alternator Output Leads 3-Phase	6 wire
Bearings	Single Sealed Cartridge
Coupling	Direct, Flexible Disc
Excitation System	Direct

## VOLTAGE REGULATION

Type	Electronic
Sensing	Single Phase
Regulation	± 1%
Features	Adjustable Voltage & Gain

## GOVERNOR SPECIFICATIONS

Type	Electronic Isochronous
Steady State Regulation	± 0.25%

## ELECTRICAL SYSTEM

Battery Charge Alternator	50 Amp (15 & 20 kW) or 70 Amp (30, 48 & 50 kW)
Smart Battery Charger	2 Amp
Recommended Battery (battery not included)	Group 27F, 700 CCA
System Voltage	12 Volts

## GENERATOR FEATURES

Revolving field heavy duty generator  
 Directly connected to the engine  
 Operating temperature rise 120°C above a 40°C ambient  
 Class H insulation is NEMA rated  
 Class F insulation is NEMA rated  
 All models fully prototype tested

## ENCLOSURE FEATURES

Aluminum weather protective enclosure	Ensures protection against mother nature. Electrostatically applied textured epoxy paint for added durability.
Enclosed critical grade muffler	Quiet, critical grade muffler is mounted inside the unit to prevent injuries and maximize sound dampening.
Small, compact, attractive	Makes for an easy, eye appealing installation.
SAE	Sound attenuated enclosure ensures quiet operation.

(All ratings in accordance with BS5514, ISO3046, ISO8528, SAE J1349 and DIN6271)

## ENGINE SPECIFICATIONS: 15 &amp; 20 kW

Make	Generac
Model	In-line
Cylinders	4
Displacement (Liters)	2.28
Bore (in./mm)	3.46/88
Stroke (in./mm)	3.70/94
Compression Ratio	21.3:1
Intake Air System	Naturally Aspirated
Cylinder Head Type	Cast Iron OHV
Piston Type	Aluminum
EPA Emissions Compliance	Emergency Stationary

## ENGINE SPECIFICATIONS: 30 kW

Make	Generac
Model	In-line
Cylinders	4
Displacement (Liters)	2.4
Bore (in/mm)	3.54/90
Stroke (in/mm)	3.70/94
Compression Ratio	21.3:1
Intake Air System	Turbocharged
Cylinder Head Type	Cast Iron OHV
Piston Type	Aluminum
EPA Emissions Compliance	Emergency Stationary

## ENGINE SPECIFICATIONS: 48/50 kW

Make	Generac
Model	In-Line
Cylinders	4
Displacement (Liters)	3.4
Bore in/mm	3.86/98
Stroke in/mm	4.45/113
Compression Ratio	18.5:1
Intake Air System	Turbocharged/Aftercooled
Cylinder Head Type	Cast Iron OHV
Piston Type	Aluminum
EPA Emissions Compliance	Emergency Stationary

## WEIGHTS AND DIMENSIONS

	15 kW	20 kW	30 kW	48 kW	50 kW
Weight (lb/kg)	1380/626		1927/874	2197/997	
Dimensions (LxWxH) (in/cm)	81 x 31 x 50/205 x 78 x 128			95 x 35 x 57/242 x 89 x 145	

## ENGINE LUBRICATION SYSTEM

Oil Pump Type	Gear
Oil Filter Type	Full flow spin-on canister
Crankcase Capacity (quarts/liters)	6.87/6.5 - 15 & 20 kW 6.8/6.4 - 30 kW 7.4/7 - 48 & 50 kW

## ENGINE COOLING SYSTEM

Type	Pressurized radiator - 15 & 20 kW Closed recovery - 30, 48 & 50 kW
Water Pump	Pre-lubed, self-seating
Fan Speed (rpm)	1800 - 15 & 20 kW 2061 - 30 kW 2029 - 48 & 50 kW
Fan Diameter (in/mm)	18.11/460 (15 & 20 kW) 22/559 (30, 48 & 50 kW)
Fan Mode	Pusher

## FUEL SYSTEM

Fuel Type	Ultra Low Sulfur Diesel Fuel
Fuel Pump Type	Mechanical Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Line (mm/in)	7.94/0.31 (ID)
Fuel Return Line (mm/in)	7.94/0.31 (ID)
Fuel Specification	ASTM
Fuel Filtering (microns)	5 - 15, 20 & 30 kW 10 - 48 & 50 kW

## TANK SPECIFICATIONS

Total Size (gallons/liters)	34/128.7 - 15 & 20 kW 62/234.7 - 30, 48 & 50 kW
Usable Size (gallons/liters)	32/121.1 - 15 & 20 kW 57/215.8 - 30, 48 & 50 kW
Run Time @ 1/2 Load (hrs)	41 - 15 kW 31 - 20 kW 38 - 30 kW 25 - 48 & 50 kW
Listings	UL142 ULC-S601

## 15 • 20 • 30 • 48 • 50 kW

## GENERATOR OUTPUT VOLTAGE/kW - 60 Hz

		kW (Standby)	Amp (Standby)	CB Size
RD015	120/240 V, 1Ø, 1.0 pf	15	62	70
	120/208 V, 3Ø, 0.8 pf	15	52	60
	120/240 V, 3Ø, 0.8 pf	15	45	50
RD020	120/240 V, 1Ø, 1.0 pf	20	83	100
	120/208 V, 3Ø, 0.8 pf	20	69	80
	120/240 V, 3Ø, 0.8 pf	20	60	70
RD030	120/240 V, 1Ø, 1.0 pf	30	125	150
	120/208 V, 3Ø, 0.8 pf	30	104	125
	120/240 V, 3Ø, 0.8 pf	30	90	100
	277/480 V, 3Ø, 0.8 pf	30	45	50
RD048/ RD050	120/240 V, 1Ø, 1.0 pf	48	200	200
	120/208 V, 3Ø, 0.8 pf	50	173	200
	120/240 V, 3Ø, 0.8 pf	50	150	175
	277/480 V, 3Ø, 0.8 pf	50	75	90

## SURGE CAPACITY IN AMPS

Voltage Dip @ < .4 pf			
	15%	30%	
RD015	120/240 V, 1Ø	53	129
	120/208 V, 3Ø	37	90
	120/240 V, 3Ø	32	78
RD020	120/240 V, 1Ø	87	211
	120/208 V, 3Ø	59	143
	120/240 V, 3Ø	51	124
RD030	120/240 V, 1Ø	66	168
	120/208 V, 3Ø	59	144
	120/240 V, 3Ø	51	125
	277/480 V, 3Ø	26	64
RD048/ RD050	120/240 V, 1Ø	69	189
	120/208 V, 3Ø	90	218
	120/240 V, 3Ø	78	189
	277/480 V, 3Ø	36	87

## ENGINE FUEL CONSUMPTION

		gal/hr	L/hr
RD015	25% of rated load	0.51	1.93
	50% of rated load	0.79	2.99
	75% of rated load	1.14	4.31
	100% of rated load	1.48	5.58
RD020	25% of rated load	0.67	2.6
	50% of rated load	1.05	3.97
	75% of rated load	1.52	5.32
	100% of rated load	1.98	7.48
RD030	25% of rated load	0.92	3.5
	50% of rated load	1.45	5.5
	75% of rated load	1.96	7.4
	100% of rated load	2.74	10.4
RD048/ RD050	25% of rated load	1.35	5.11
	50% of rated load	2.15	8.14
	75% of rated load	3.06	11.58
	100% of rated load	3.98	15.07

## ENGINE COOLING

	15 kW	20 kW	30 kW	48/50 kW
Air flow (inlet air including alternator and combustion air in cfm/cmm)	2824/80	2824/80	3038/86	2824/80
System coolant capacity (gal/liters)	2.8/10.6	2.8/10.6	2.8/10.6	2.8/10.6
Heat rejection to coolant (BTU per hr/MJ per hr)	63,535/67	63,535/67	111,000/117.1	135,900/143.4
Maximum operation air temperature on radiator (°C/F)		50/122		
Maximum ambient temperature (°C/F)		50/122		

## COMBUSTION REQUIREMENTS

Flow at rated power (cfm/cmm)	84.76/2.4	84.76/2.4	90/2.55	190/5.38
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## SOUND EMISSIONS

Sound output in dB(A) at 23 ft (7 m) with generator in exercise mode*	65
Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load*	70

\*Sound levels are taken from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on installation parameters.

## EXHAUST

Exhaust flow at rated output (cfm/cmm)	98.88/2.8	98.88/2.8	230/6.51	448/12.7
Exhaust temperature at rated output (°C/F)	604.4/1120	604.4/1120	454.4/850	604.4/1120

## ENGINE PARAMETERS

Rated Synchronous RPM	1800			
HP at rated kW	26.4	33.5	49	85

## POWER ADJUSTMENT FOR AMBIENT CONDITIONS

Temperature Deration .....	3% for every 5 °C above 25 °C or 1.7% for every 5 °F above 77 °F
Altitude Deration (15, 30, 48 & 50 kW) .....	1% for every 100 m above 915 m or 3% for every 1000 ft above 3000 ft
Altitude Deration (20 kW) .....	1% for every 100 m above 305 m or 3% for every 1000 ft above 1000 ft

## CONTROLLER FEATURES

2-Line Plain Text Multilingual LCD Display .....	Simple user interface for ease of operation.
Mode Buttons: Auto .....	Automatic Start on Utility failure. Programmable 7 day exerciser.
Manual .....	Start with starter control, unit stays on. If utility fails, transfer to load takes place.
Off .....	Stops unit. Power is removed. Control and charger still operate.
Ready to Run/Maintenance Messages .....	Standard
Engine Run Hours Indication .....	Standard
Programmable start delay between 2-1500 seconds .....	Standard (programmable by dealer only)
Utility Voltage Loss/Return to Utility Adjustable .....	From 140-171 V/190-216 V
Future Set Capable Exerciser/Exercise Set Error Warning .....	Standard
Run/Alarm/Maintenance Logs .....	50 Events Each
Engine Start Sequence .....	Cyclic cranking: 16 sec on, 7 rest (90 sec maximum duration).
Starter Lock-out .....	Starter cannot re-engage until 5 sec after engine has stopped.
Smart Battery Charger .....	Standard
Charger Fault/Missing AC Warning .....	Standard
Low Battery/Battery Problem Protection and Battery Condition Indication .....	Standard
Automatic Voltage Regulation with Over and Under Voltage Protection .....	Standard
Under-Frequency/Overload/Stepper Overcurrent Protection .....	Standard
Safety Fused/Fuse Problem Protection .....	Standard
Automatic Low Oil Pressure/High Oil Temperature Shutdown .....	Standard
Overspeed (@ 72 Hz)/RPM Sense Loss Shutdown .....	Standard
High Engine Temperature Shutdown .....	Standard
Internal Fault/Incorrect Wiring Protection .....	Standard
Common External Fault Capability .....	Standard
Field Upgradable Firmware .....	Standard

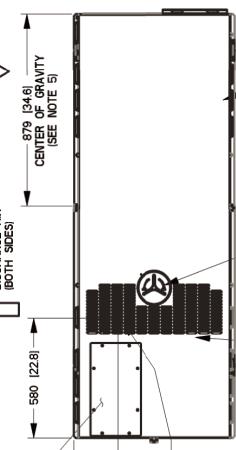
## installation layout

**15 & 20 kW**

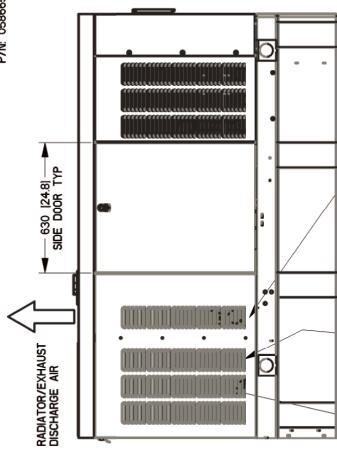
Drawing #OK7025-C (1 of 2)

SERVICE ITEM	WEIGHT WITH BASETANK (SEE NOTE 5)	WEIGHT WITH WOODEN SHIPPING SKD
OL FILL CAP	23.0	665 [1465]
OL DIP STICK	RIGHT SIDE	
OL FILTER	RIGHT SIDE	
OL DRAIN HOSE	RIGHT SIDE	
RADIATOR DRAIN HOSE	LEFT SIDE	
COOLANT RECOVERY BOTTLE	LEFT SIDE	
RADIATOR FIL CAP ACCESS	TOP	
AIR CLEANER ELEMENT	EITHER SIDE	
NOFFLER	FRONT	
FAN BELT	EITHER SIDE	
BATTERY	LEFT SIDE	
REFERENCE: OWNERS MANUAL FOR PERIODIC REPLACEMENT PART LISTINGS		

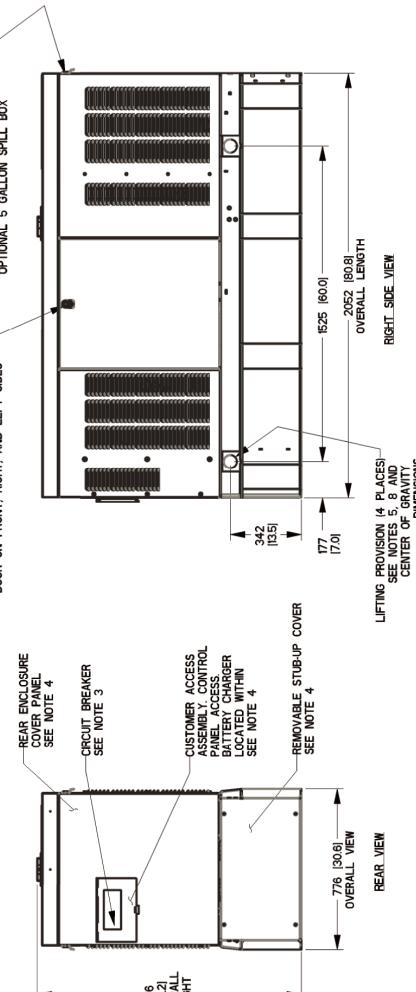
✓ REMOVE PANEL TO ALLOW TANK VENTS TO TERMINATE OUTSIDE OF THE GENERATOR ENCLOSURE (CHECK LOCAL AND STATE CODE FOR APPLICABILITY)



INTERNAL DIVIDER PANEL  
SEPARATES FUEL TANK VENTILATION  
DUCT FROM THE ENGINE  
TERMINATOR AND EXHAUST SYSTEM  
TOP VIEW  
REMOVE COVER  
FOR ACCESS TO  
RADIATOR FILL CAP  
BATTERY 12 VOLT  
NEGATIVE GROUND



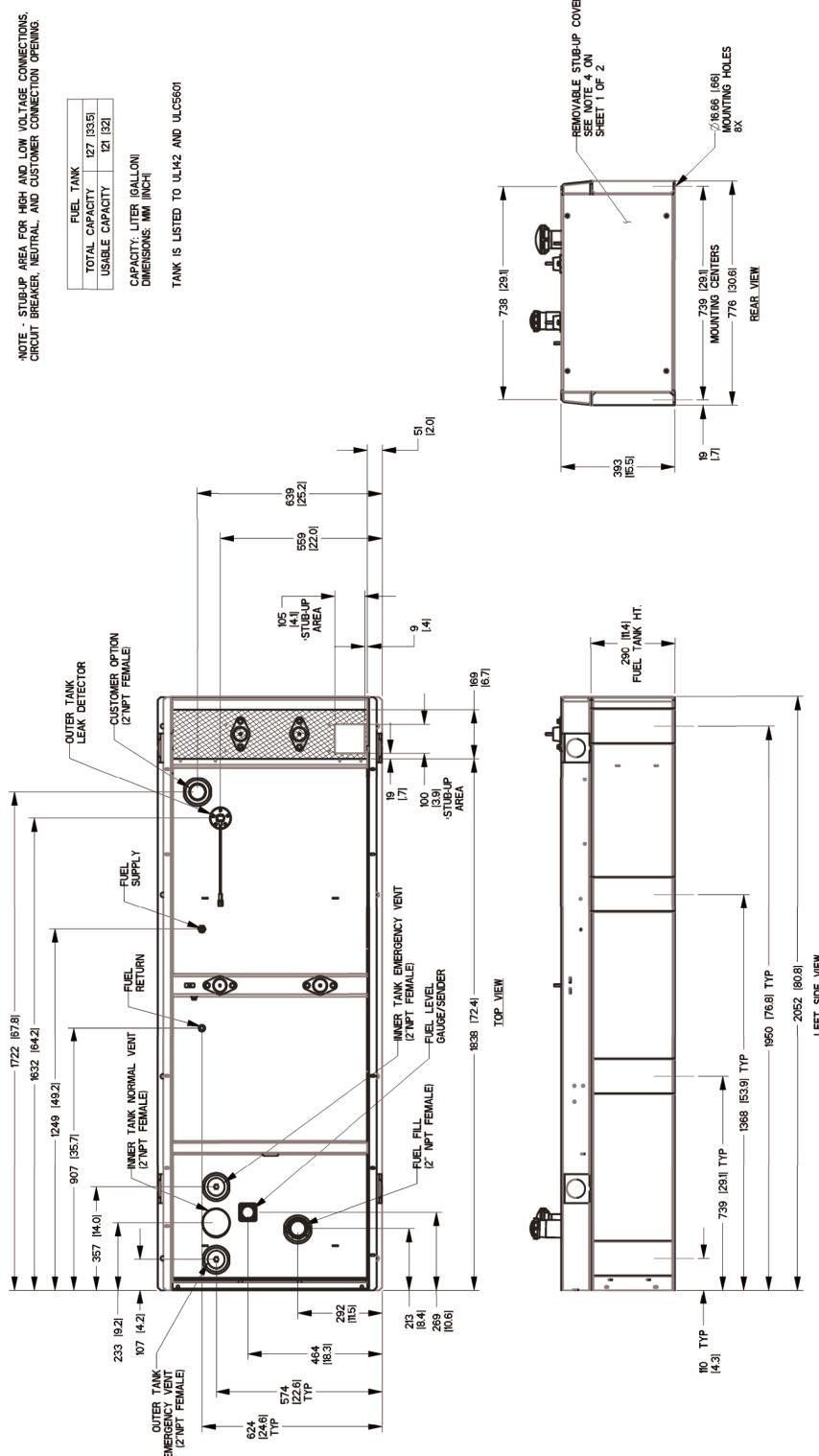
OPEN PUNCHED LOUVERS, TYPICAL  
FUEL TANK  
VENTILATION DUCT  
EXHAUST MUFFLER ENCLOSED WITHIN  
GENERATOR ENCLOSURE



LIFTING PROVISION (4 PLACES)  
SEE NOTES 5, 8 AND  
CENTER OF GRAVITY  
DIMENSIONS

NOTES:

1. MINIMUM RECOMMENDED CONCRETE PAD SIZE: 1002 (43") WIDE X 2355 (93") LONG. 2. REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT FOR CONCRETE PAD GUIDELINES.
2. ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE AND SERVICING. THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT STANDARDS AS WELL AS NFPA 1, NFPA 41, NFPA 45 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, NATIONAL OR LOCAL CODES.
3. COLOCATE MECHANICAL, ELECTRICAL, AND CONTROL CIRCUITS IN SEPARATE CLOSETS. REFER TO OWNERS MANUAL FOR FURTHER INFORMATION.
4. SEE SPECIFICATION SHEET FOR OWNERS MANUAL FOR CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR.
5. ACCESSORY THROUGH STUB-UP AND REAR ENCLOSURE COVER PANEL TO ACCESS THE STUB-UP AREAS AS FOLLOWS:
  4. REMOVE THE REAR STUB-UP AND REAR ENCLOSURE COVER PANEL TO ACCESS HIGH VOLTAGE CONNECTION TO GENERATOR. CHANGER LED LOAD CONDUIT CONNECTION.
  5. LOW VOLTAGE CONNECTION TO GENERATOR. CHANGER LED LOAD CONDUIT CONNECTION.
  6. CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
  7. ACCESSORY RELAY CONNECTION (VOL. 4).
  8. BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
  9. MOUNTING STUDS OR STUDS TO MOUNTING SURFACE. SHALL BE 5/8" (16MM) DIAMETER.
  10. ALLOW FULL FLOW OF INTAKE AIR, DISCHARGE AIR AND EXHAUST. SEE SHEET FOR MINIMUM AIR FLOW RESTRICTION REQUIREMENTS.
  11. GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE TO THE GENERATOR. REFER TO OWNERS MANUAL FOR FURTHER INFORMATION.

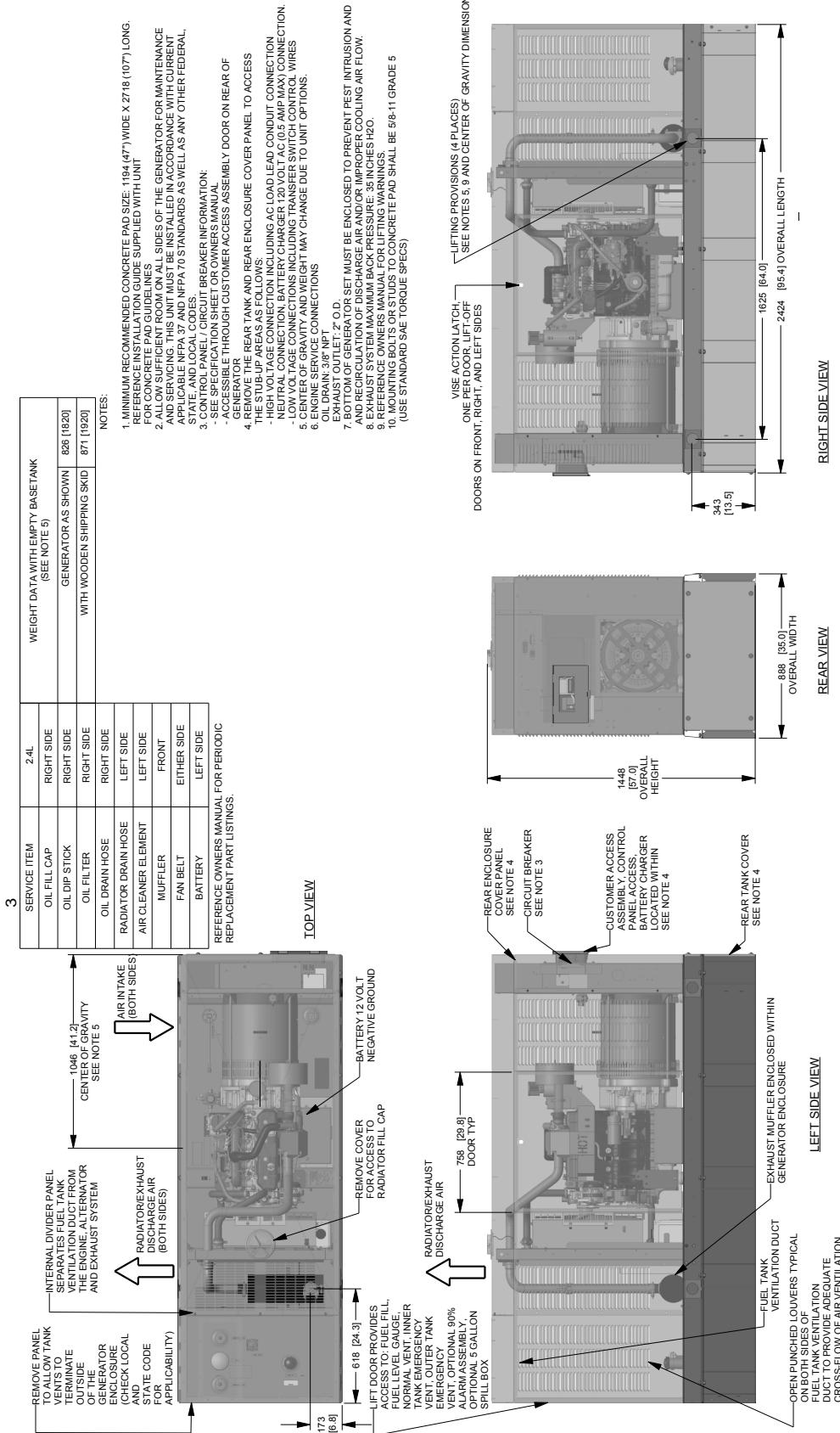


**30 kW**

## installation layout

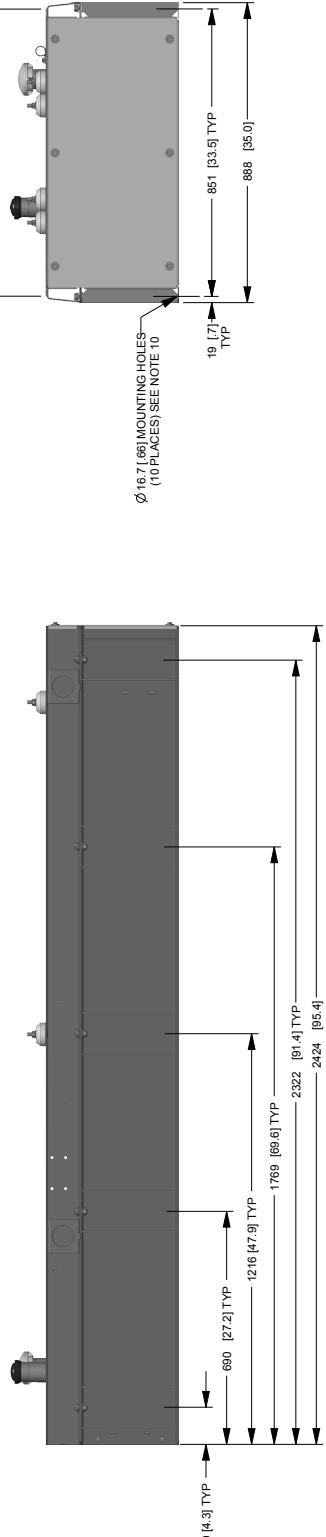
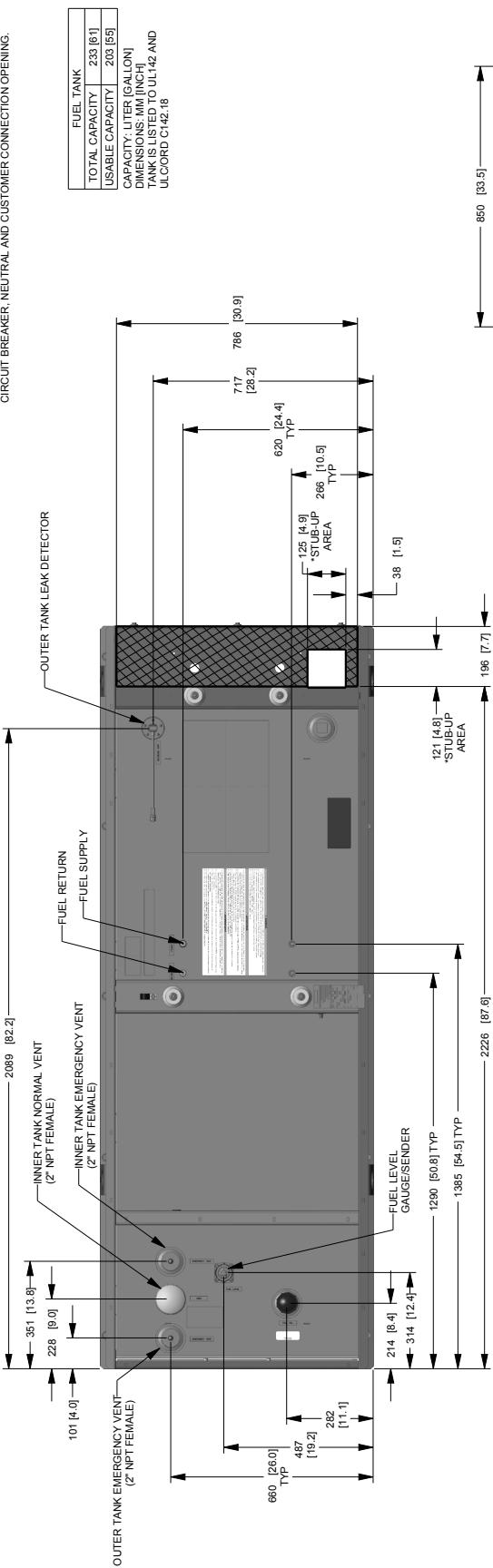
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8 of 12



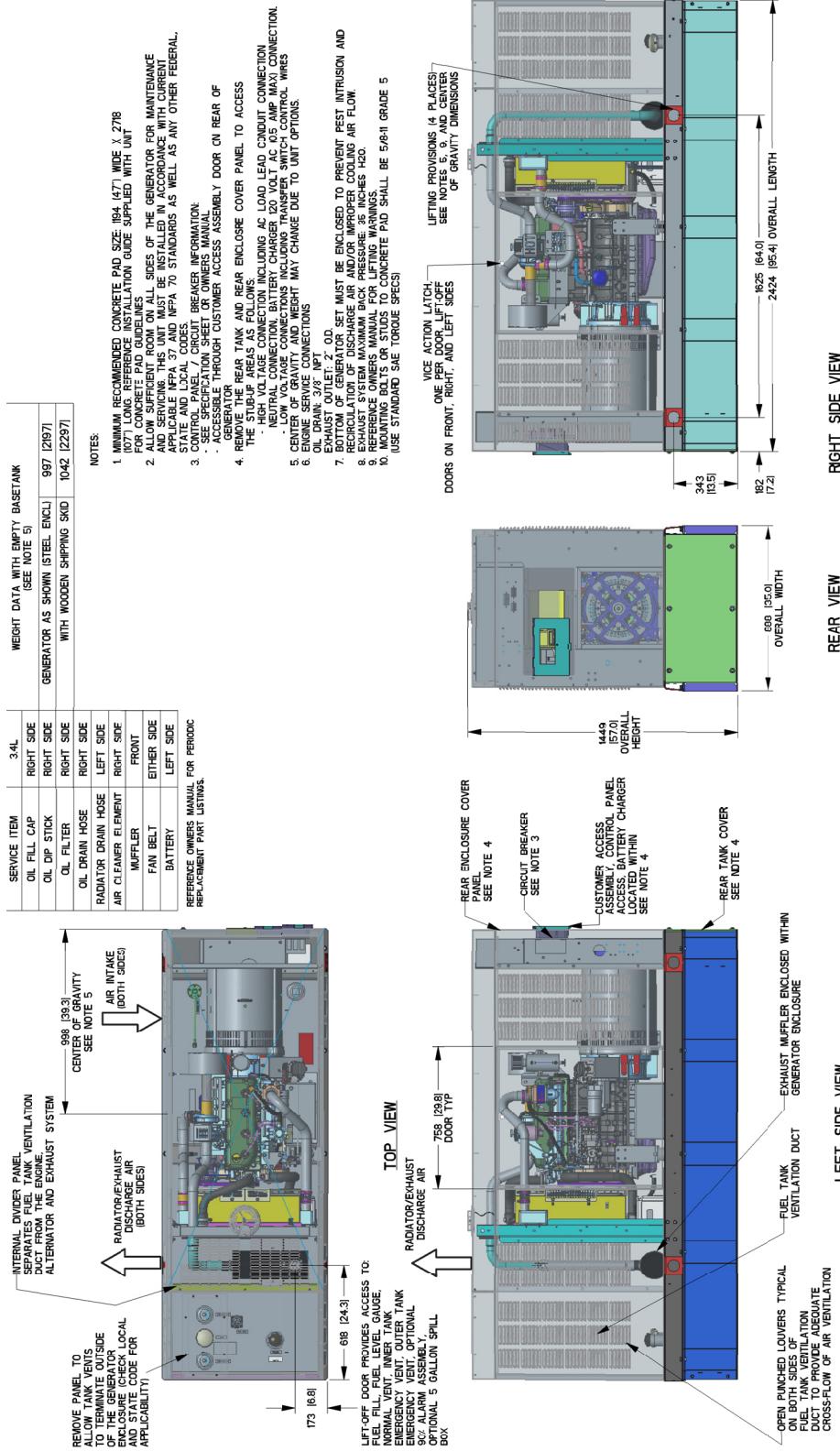
30 kW

\*NOTE- STUB-UP AREA FOR HIGH AND LOW VOLTAGE CONNECTIONS, CIRCUIT BREAKER, NEUTRAL AND CUSTOMER CONNECTION OPENING.



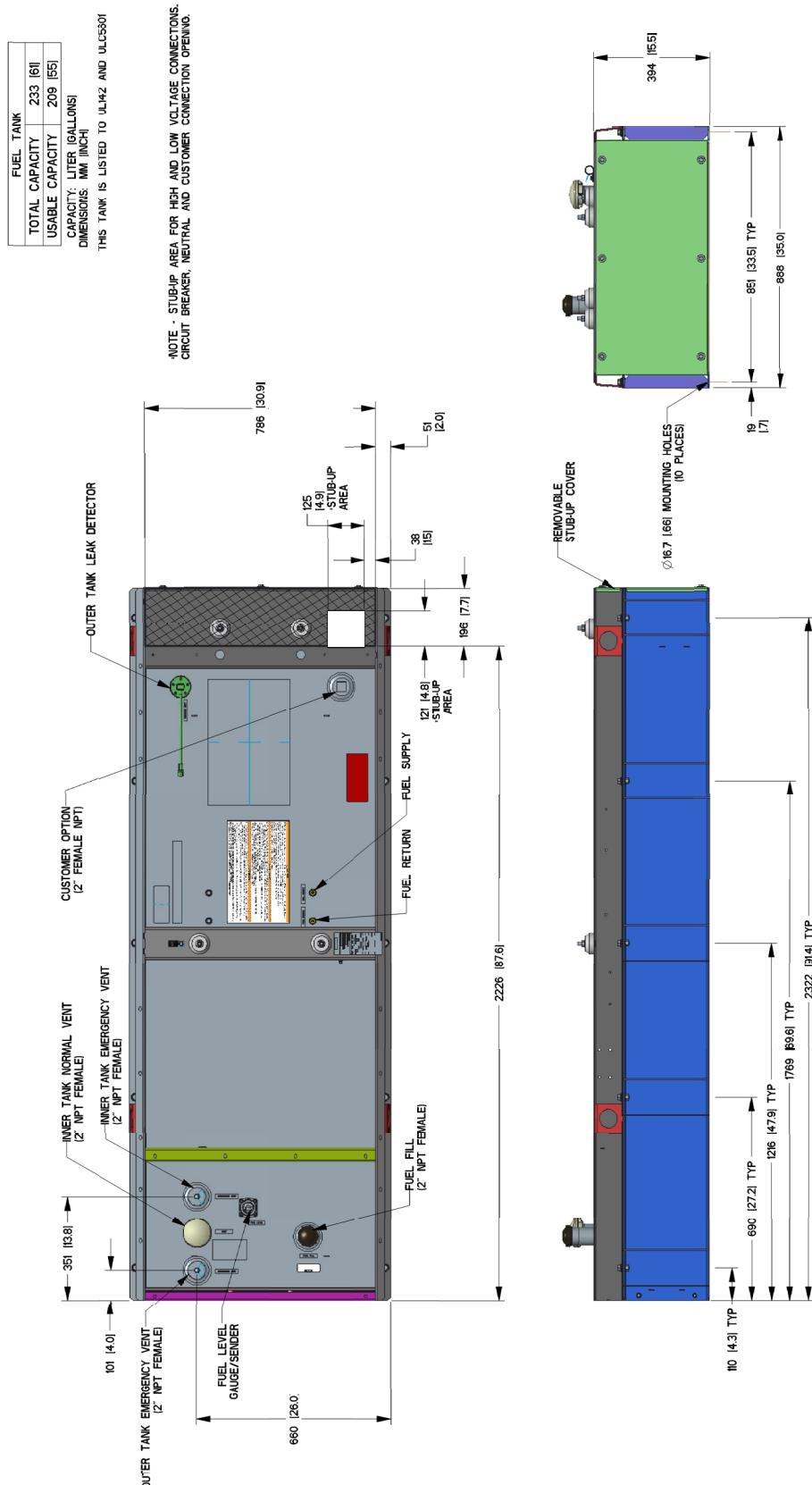
## 48 &amp; 50 kW

Drawing #0K6968-C (1 of 2)



## installation layout

Drawing #0K6968-A (2 of 2)



## 15 • 20 • 30 • 48 • 50 kW

## available accessories

Model #	Product	Description
G006463-4	Mobile Link™	Generac's Mobile Link allows you to check the status of your generator from anywhere that you have access to an Internet connection from a PC or with any smart device. You will even be notified when a change in the generator's status occurs via e-mail or text message. Note: Harness Adapter Kit required. Available in the U.S. only.
G006478-0	Harness Adapter Kit	The Harness Adapter Kit is required to make liquid-cooled units compatible with Mobile Link™.
G006502-0	Spill Box	The 5-gallon spill box screws into the existing fuel fill port of the base tank. It captures and contains fuel if over fueling or spilling occurs during the fill process.
G006504-0	90% Fuel Level Alarm	The 90% fuel level alarm alerts the fuel fill operator when the tank reaches a 90% fill level by sounding an audible alarm and triggering an LED warning light.
G006505-0 - 15 & 20 kW G006506-0 - 30, 48 & 50 kW	Tank Risers	Tank risers are required in some municipalities to help avoid potential base tank corrosion caused by mounting on rough surfaces.
G006507-0	Fuel Fill Drop Tube	A powder coat painted, steel fuel fill drop tube is required in some municipalities to prevent sparking due to static electricity buildup, which can be caused by the fuel dropping into the tank from the fill area. Using a drop tube also results in submerged filling, which increases the fuel delivery flow rate and reduces vapors, foam and potential tank evaporation.
G006513-0 - 15 & 20 kW G006517-0 - 30 kW G006516-0 - 48 & 50 kW	Stainless Steel Fuel Lines	Some municipalities require the use of stainless steel fuel lines instead of the standard hoses provided with the diesel generator products. These stainless steel lines are fire resistant for additional safety.
G006510-0	E-Stop	E-stop allows for immediate fuel shutoff and generator shutdown in the event of an emergency.
006511-0	Spill Box Drainback Kit	The spill box drainback kit allows fuel that was captured in the 5-gallon spill box to be drained directly back into the fuel tank to avoid vapors.
G006588-1	Vent Extension Support Kit	The vent extension support kit consists of two aluminum plates with the appropriate pipe cutouts to secure the vent extension pipes coming through the top of the generator enclosure. It helps to minimize stress on the NPT fittings integrated on the tank and also helps protect against pests.
G006512-0	Lockable Fuel Cap	The cast iron, lockable fuel cap provides the ability to lock the fuel system to prevent unwanted fuel tampering or fuel siphoning.
G006572-0 - 15 & 20 kW G006571-0 - 30 kW G006570-0 - 48 & 50 kW	Maintenance Kits	The Protector Maintenance Kits offer all the hardware necessary to perform complete maintenance on Generac Protector generators.
G006560-0 - 15 & 20 kW G006559-0 - 30 kW G006558-0 - 48 & 50 kW	Cold Weather Kits	Recommended for generators installed in regions where the temperature regularly falls below 32 °F (0 °C). The Cold Weather Kits consist of a block heater with all necessary mounting hardware and a battery warmer with a thermostat built into the battery wrap.
G005704-0	Paint Kit	If the generator enclosure is scratched or damaged, it is important to touch-up the paint to protect from future corrosion. The paint kit includes the necessary paint to properly maintain or touch-up a generator enclosure.
G006664-0	Local Wireless Remote	Completely wireless and battery powered, Generac's wireless remote monitor provides you with instant status information without ever leaving the house.
G006665-0	Wireless Remote Extension Harness	Recommended for use with the Wireless Remote on units up to 60 kW, required for use on units 70 kW or greater.
G006873-0	Smart Management Module (50 Amps)	Manage large loads by utilizing up to 8 individual Smart Management modules. These devices are installed directly in line with existing appliance wiring for easy installation.

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<span style="font-size: 2em; vertical-align: middle;">JUN 29 2022</span> <span style="font-size: 1.5em; vertical-align: middle;">06/29/2022</span> <span style="font-size: 1.2em; vertical-align: middle;">Postmark</span> <span style="font-size: 1.2em; vertical-align: middle;">Here:</span> <span style="font-size: 1.2em; vertical-align: middle;">04</span> <span style="font-size: 1.2em; vertical-align: middle;">0728</span>	
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MAHWAH NJ 07495

**SHIP TO:**  
JOSEPH CARFORA  
250 MAIN STREET  
**THE CENTRE CT 06512**

**CT 0647-01**



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TRACKING #: 1Z V25 742 03 9605 8896



BILLING: P/P

Reference #1: CT11623B

XOL 22.06.15 NV45 27.06.06/2022+



Reference #1: CT11623B

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TM

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CROWN CASTLE USA  
2000 CORPORATE DRIVE  
**CANONSBURG PA 15317**

**PA 1530-10**



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**THE CENTRE CT 06512**

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XOL 22.06.15 NV45 27.06.06/2022+



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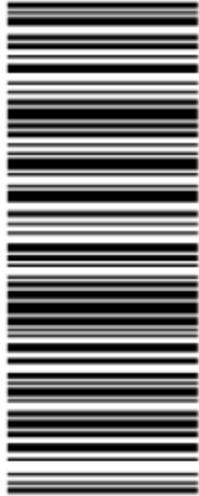


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Delivery Date: Friday, 07/01/2022

Delivery Time: 10:38 AM

Signed by: VIGLIONE

**TRANSCEND WIRELESS**

Tracking Number: [1ZV257420396698918](#)

STEPHEN VIGLIONE  
259 COMMERCE STREET  
MOMAUGUIN, 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:** Friday, 07/01/2022

**Delivery Time:** 3:08 PM

**Signed by:** MAURO

## TRANSCEND WIRELESS

**Tracking Number:** [1ZV257420398868909](#)

JOSEPH BUDROW

250 MAIN STREET

THE CENTRE, **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:** Friday, 07/01/2022

**Delivery Time:** 3:08 PM

**Signed by:** MAURO

## TRANSCEND WIRELESS

**Tracking Number:** [1ZV257420396058896](#)

JOSEPH CARFORA

250 MAIN STREET

THE CENTRE, **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:** Tuesday, 07/05/2022

**Delivery Time:** 11:09 AM

**Signed by:** HERROD

## TRANSCEND WIRELESS

**Tracking Number:** [1ZV257420398268889](#)

CROWN CASTLE USA

2000 CORPORATE DRIVE

CANONSBURG, PA 15317

US

**Number of Packages:** 1

**UPS Service:** UPS Ground

**Package Weight:** 1.0 LBS

**Reference Number:** CT11623B