



NSS

NORTHEAST
SITE SOLUTIONS

Turnkey Wireless Development

Northeast Site Solutions
Victoria Masse
420 Main Street #2, Sturbridge, MA 01566
860-306-2326
victoria@northeastsitesolutions.com

August 26, 2021

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

RE: Exempt Modification Application
Off of Rood Road Pole #20073, Line 1779, Windsor CT 06095
Latitude: 41.82568448
Longitude: -72.66750631
T-Mobile Site#: CT11446A-NHP

Dear Ms. Bachman:

T-Mobile currently maintains six (6) antenna at the 154-foot level and three (3) antenna at the 161-foot level of the existing 164-foot utility pole located Off of Rood Road, Pole # 20073, Line 1779, Windsor CT. The 164-foot utility pole and property are owned by CT Light and Power d/b/a Eversource. T-Mobile now intends to add a 25Kw generator on an existing concrete pad within the compound.

Planned Modifications:

Ground work only-Install New:

(1) GENERAC RD 25 KW AC DIESEL GENERATOR – 240-gallon double walled self-contained tank with fuel sensor. Requires two (2) 12-minute run cycles by-weekly.



This facility was approved by the CT Siting Council Petition No.1125. Please see attached.

This facility was approved by the Connecticut Siting Council. Docket No.179 – 1. The height of the proposed tower shall not exceed a height of 327 feet above ground level (AGL). Please see attached.

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 Donald Trinks, as Elected Official for the Town of Windsor and Eric Barz, Town Planner as well as the property owner and the tower owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

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

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

Sincerely,

Victoria Masse
Mobile: 860-306-2326
Fax: 413-521-0558
Office: 420 Main Street, Unit 2, Sturbridge MA 01566
Email: victoria@northeastsitesolutions.com



Attachments

CC:

Mayor Donald Trinks - as elected official
275 Broad Street
Windsor CT 06095

Eric Barz- Town Planner
275 Broad Street
Windsor CT 06095

Eversource - Tower and property owner
Northeast Utilities
107 Selden Street
Berlin CT 06037
Attn: Chris Gelinas

NORTHEAST SITE SOLUTIONS, LLC

1053 FARMINGTON AVE STE G
FARMINGTON, CT 06032

WEBSTER BANK
51-7010/2111

4674

08/27/2021

PAY TO THE ORDER OF Connecticut Siting Council

*625.00

\$

EXACTLY SIX HUNDRED TWENTY-FIVE DOLLARS

DOLLARS

Connecticut Siting Council
10 Franklin Square
New Britain CT 06051

MEMO

Gina Lin Allen
AUTHORIZED SIGNATURE

⑈004674⑈ ⑆211170101⑆10 0010608887⑈

NORTHEAST SITE SOLUTIONS, LLC

4674

Check#: 4674

Date: 08/27/2021

Vendor#: 10023 Connecticut Siting Council

Check Total: *625.00

Invoice#	Invoice Date	Job/Description	Balance	Retain	Discount	This Check
CT11446A NHP Zoning	08/27/2021	11 TMO NHP	625.00			625.00

NORTHEAST SITE SOLUTIONS, LLC

4674

Check#: 4674

Date: 08/27/2021

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CT11446A NHP Zoning	08/27/2021	11 TMO NHP	625.00			625.00

Exhibit A

Petition No. 590
Omnipoint Communications, Inc. d/b/a T-Mobile USA, Inc.
Windsor, Connecticut
Staff Report
November 7, 2002

On October 30, 2002, Connecticut Siting Council (Council) member Gerald Heffernan and Robert Mercier of the Council staff met with Omnipoint Communications, Inc (Omnipoint) representatives at a Connecticut Light and Power (CL&P) right-of-way south of Rood Avenue in Windsor, Connecticut for inspection of an electric transmission structure owned by CL&P. Omnipoint, with the agreement of CL&P, proposes to modify the structure by installing antennas on a pipe mount and an equipment compound for telecommunications use and is petitioning the Council for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need (Certificate) is required for the modification.

Omnipoint proposes to install a 16-foot pipe mast on the existing 148-foot electric transmission line structure (no. 20073). Two sets of three-panel antennas would be mounted at centerline heights of 155 and 161 feet above ground level (agl). The total height of the structure would be 164 feet agl.

Three equipment cabinets would be installed on a 12-foot by 14-foot concrete pad enclosed within an 18-foot by 20-foot compound. A six-foot high chain link fence would enclose the gravel compound area. Access to the proposed site would be via a graded grassy track that would require minimal clearing. Utility service would be provided from an underground conduit that would extend from an existing utility pole on Pine Line Extension, through a residential property to the right-of-way.

The tower location abuts a residential area to the south and west, Interstate 91 to the east and a continuation of the right-of-way to the north. The right-of way contains two separate transmission lines and associated tower structures. The proposed compound site is in a cleared area that would be visible from the backyards of several homes that directly abut the right-of-way. In the petition, Omnipoint proposes to locate the compound access gate on the west side of the compound, in view of the residences. Omnipoint would be willing to relocate the gate to the north side of the compound and establish vegetative screening on the west side to minimize potential visual impacts.

Omnipoint investigated the possible shared use of existing telecommunications facilities on Cottage Grove Road and Emerson Road in Windsor and determined coverage objectives could not be met.

The worst-case power density for the telecommunications operations at the site has been calculated to be 1.9% of the applicable standard for uncontrolled environments.

The proposed project is designed to provide coverage to coverage gaps on Interstate 91 in the vicinity of Exit 36. Omnipoint contends that the proposed modification of the structure would not cause a substantial adverse environmental impact, and would prevent the construction of a new tower in the area.

Petition No. 1125
T-Mobile Northeast LLC
Windsor, Connecticut
Staff Report
January 12, 2015

On December 11, 2014, the Connecticut Siting Council (Council) received a petition from T-Mobile Northeast LLC (T-Mobile) for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the modification of an existing wireless telecommunications facility located off of Rood Avenue in Windsor, Connecticut. Staff member David Martin visited the site on January 6, 2015 to review the proposal.

T-Mobile currently has two sets of three antennas mounted at the top of an existing Connecticut Light & Power (CL&P) transmission line structure located south of Rood Avenue and adjacent to I-91. The two sets of antennas have centerline heights of 155 feet above ground level (agl) and 161 feet agl respectively. These antennas operate on the 1900 and 2100 MHz frequency bands. The overall height of the structure, with antennas in place, is 164 feet. There is an 18-foot by 20-foot equipment compound enclosed by a six-foot high chain link fence at the base of the tower. This facility was originally approved by the Council under Petition 590 in 2002. Since the original installation, T-Mobile has changed its antennas under an exempt modification submitted to the Council in 2010.

T-Mobile has recently acquired bandwidth in the 700 MHz frequency range and is now proposing to replace the three existing antennas at the 155-foot centerline height with three 700 MHz antennas, relocate three existing tower mounted amplifiers from the 155-foot height to the 161-foot height, and add three remote radio heads on an H-frame inside the equipment compound. It also seeks to expand the fenced area by a dimension of 12 feet by 20 feet in order to enclose the transmission line structure and existing ice bridge within the equipment compound as required by CL&P.

Ordinarily, the equipment changes proposed by T-Mobile would be treated as an exempt modification. However, since the expanded fenced area would technically expand the boundaries of the facility, T-Mobile is submitting this petition.

There are single family residences on either side of CL&P's transmission line easement. The closest homes to the equipment compound are approximately 200 feet to the west. Although T-Mobile has planted some arbor vitae along the west side of its compound, there is little existing vegetation to screen the compound from the nearest residences' view. However, the compound is minimally intrusive and the expansion of the fenced area is unlikely to result in any noticeable change, especially since the area of expansion is on the side opposite the nearest homes.

Council staff calculates that T-Mobile's proposed antenna array would result in a power density equal to approximately 6.75% of the FCC's applicable limit. The Structural Analysis of the tower concludes that it is structurally adequate to accommodate the proposed antenna changes.

T-Mobile notified the town and adjacent property owners of its proposal. The Council has not received any comments or inquiries from town officials or nearby residents.

The proposed antenna modifications and fence line expansion are not expected to have any substantial adverse environmental effects.

Views of existing transmission line tower



(view from I-91 taken from Google Earth)



(aerial view taken from Bing)



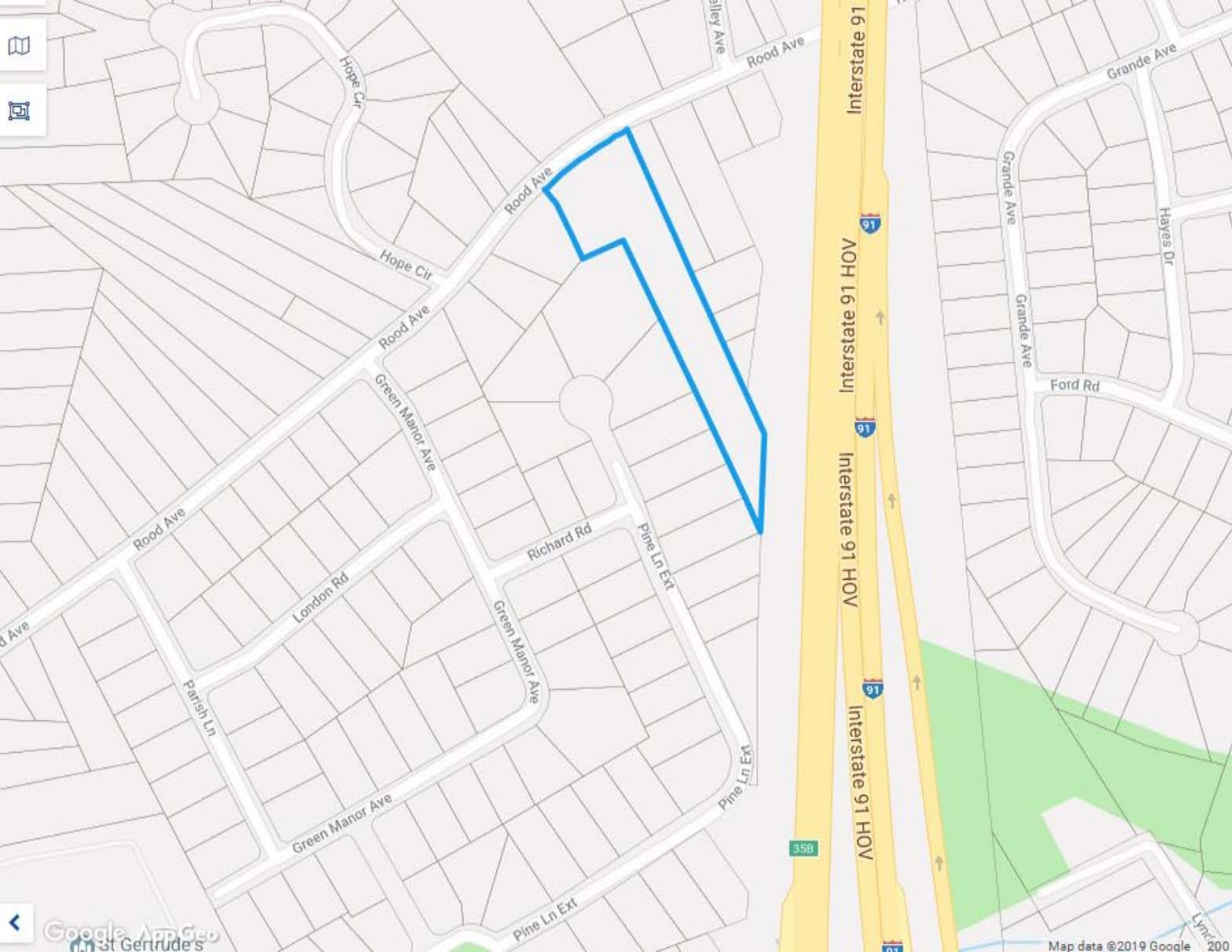
(photo of existing facility by staff)

Exhibit B

CURRENT OWNER		TOPO		UTILITIES		STRT / ROAD		LOCATION		CURRENT ASSESSMENT				<div>6164</div> <div>WINDSOR, CT</div> <div>VISION</div>															
CONNECTICUT LIGHT & POWER COMPANY THE PO BOX 270 HARTFORD CT 06141-0270		4	Rolling	2	Public Water	1	Paved			Description	Code	Appraised	Assessed																
				3	Public Sewer					VAC RS LN	5-1	76,300	53,410																
		SUPPLEMENTAL DATA																											
		Alt Prcl ID 1412 INC: GH 2007 46340 GIS ID 1412				CTRACT 4731.00 CBLOCK 201 DIST HEART GL YEAR Assoc Pid#				Total 76,300 53,410																			
RECORD OF OWNERSHIP				BK-VOL/PAGE		SALE DATE		Q/U V/I		SALE PRICE		VC		PREVIOUS ASSESSMENTS (HISTORY)															
CONNECTICUT LIGHT &				0426 0231		07-02-1982		U V		0				Year	Code	Assessed	Year	Code	Assessed V	Year	Code	Assessed							
												2019	5-1	58,751	2018	5-1	53,410	2017	5-1	53,410									
				Total								58751		Total		53410		Total		53410									
EXEMPTIONS				OTHER ASSESSMENTS								This signature acknowledges a visit by a Data Collector or Assessor <div>APPRAISED VALUE SUMMARY</div> <div>Appraised Bldg. Value (Card) 0</div> <div>Appraised Xf (B) Value (Bldg) 0</div> <div>Appraised Ob (B) Value (Bldg) 0</div> <div>Appraised Land Value (Bldg) 76,300</div> <div>Special Land Value 0</div> <div>Total Appraised Parcel Value 76,300</div> <div>Valuation Method C</div> <div>Total Appraised Parcel Value 76,300</div>																	
Year	Code	Description		Amount		Code	Description		Number	Amount										Comm Int									
Total 0.00																													
ASSESSING NEIGHBORHOOD																													
Nbhd		Sub		Nbhd Name				B				Tracing				Batch													
4		A																											
NOTES																													
01412.00 0056-0026-0004																													
BUILDING PERMIT RECORD												VISIT / CHANGE HISTORY																	
Permit Id		Issue Date		Type		Description		Amount		Insp Date		% Comp		Date Comp		Comments		Date		Id		Type		Is		Cd		Purpost/Result	
B-150325		03-09-2015		CM		Commercial		15,000		06-22-2015		100		10-01-2015		CELL TOWER ANTENNA CHA		12-04-2019		LL						64		I & E PENALTY	
																		06-22-2015		LL						20		Bldg Permit Insp	
																		12-15-2008		MT						40		No change	
																		12-20-1989		JM						43		Change - Reinspection Rer	
																		03-23-1988		CN						OO			
LAND LINE VALUATION SECTION																													
B	Use Code	Description		Zone	Land Type		Land Units		Unit Price		Size Adj	Site Index	Cond.	Nbhd.	Nbhd. Adj		Notes		Location Adjustment		Adj Unit P		Land Value						
1	1310	Vacant		AA			1.000 AC		81,225		1.00000	1	1.00	4	0.800								65,000						
1	1310	Vacant		AA			1.200 AC		9,500		0.99000	0	1.00		1.000						1.0000		11,300						
Total Card Land Units							1.000 AC		Parcel Total Land Area 2.2000					Total Land Value 76,300															

State Use 1310
Print Date 12/9/2020 4:10:09 PM

[illegible]



Interstate 91

Interstate 91 HOV

Interstate 91 HOV

Interstate 91 HOV

Grande Ave

Grande Ave

Grande Ave

Ford Rd

Hayes Dr

Rood Ave

Hope Cir

Rood Ave

Green Manor Ave

Rood Ave

London Rd

Parish Ln

Green Manor Ave

Richard Rd

Pine Ln Ext

Green Manor Ave

Pine Ln Ext

Pine Ln Ext

35B

Exhibit C

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MODIFICATION OF EXISTING WIRELESS FACILITY BY



T-MOBILE NORTHEAST LLC

PROJECT TITLE: NATIONAL HARDENING

SITE NUMBER: CT11446A

SITE NAME: CL&P MONOPOLE WINDSOR

CL&P STRUCTURE# 20073

SITE ADDRESS:

301 T ROOD AVE

WINDSOR, CT 06095

PROJECT NOTES:

- THIS IS AN UNMANNED TELECOMMUNICATION FACILITY AND NOT FOR HUMAN HABITATION: HANDICAPPED ACCESS IS NOT REQUIRED. POTABLE WATER OR SANITARY SERVICE IS NOT REQUIRED. NO OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES REQUIRED.
- DEVELOPMENT AND USE OF THE SITE WILL CONFORM TO ALL APPLICABLE CODES, ORDINANCES AND SPECIFICATIONS.

CODE COMPLIANCE:

ALL WORK SHALL COMPLY WITH THE CURRENT NATIONAL AND CONNECTICUT STATE BUILDING AND LIFE SAFETY CODES, SUPPLEMENTS AND AMENDMENTS INCLUDING BUT NOT LIMITED TO THE LATEST EDITION OF:

CONNECTICUT STATE BUILDING CODE (CSBC).

ANSI/TIA-222-G STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.

NATIONAL ELECTRICAL CODE (NEC) FOR POWER AND GROUNDING REQUIREMENTS.

OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).

NFPA - NATIONAL FIRE PROTECTION ASSOCIATION.



Connecticut - Call Before You Dig

811 or
1-800-922-4455

Advance Notice:

Minimum of 2 working days in advance, no more than 30 days in advance

SITE IMAGE:



PROJECT SCOPE:

THE PROPOSED PROJECT SCOPE WILL CONSIST OF INSTALLING A NEW GENERAC RD 25 KW AC DIESEL GENERATOR AND TANK FOR AN EXISTING TELECOM BASE STATION. NO SIGNIFICANT GRADING IS REQUIRED. ALL PROPOSED CONSTRUCTION WILL BE CONTAINED WITHIN THE EXISTING FENCED COMPOUND AND TOWER SITE LEASE AREA.

PROJECT INFORMATION:

ADDRESS: CL&P STRUCTURE# 20073
301 T ROOD AVE
WINDSOR, CT 06095

FILECODE: 1412

MAP: 56

BLOCK: 26

LOT: 26

ZONE: AA

LAND AREA: 2.2 ACRES

COORDINATES: 41° 49' 31.19" N 72° 39' 59.06" W

GROUND ELEV: 94'± (AMSL)

PROJECT TEAM:

APPLICANT: T-MOBILE NORTHEAST, LLC.
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
860-692-7100

PROPERTY OWNER: CONNECTICUT LIGHT AND POWER
PO BOX 270
HARTFORD, CT 06141-0270

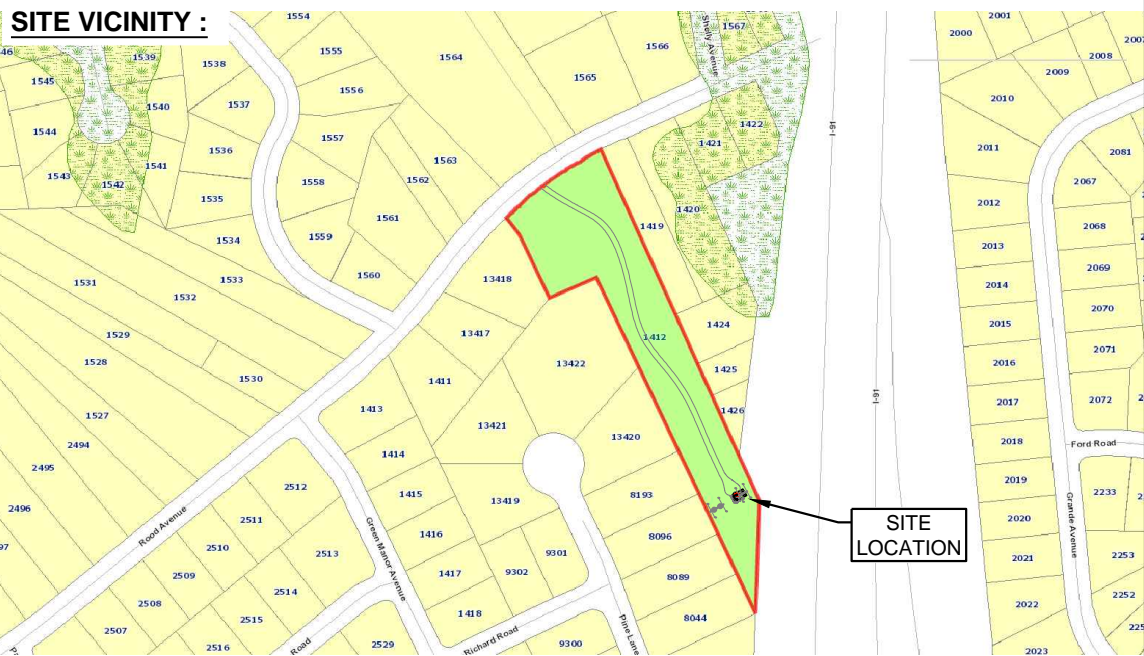
PROJECT MANAGER: NORTHEAST SITE SOLUTIONS
420 MAIN STREET, BLDG 4
STURBRIDGE, MA 01566
SHELDON FREINCLE
SHELDON@NORTHEASTSITESOLUTIONS.COM
201-776-8521

ENGINEERING CONSULTANTS: FORESITE LLC
462 WALNUT ST
NEWTON, MA 02460
SAEED MOSSAVAT
SMOSSAVAT@FORESITELLC.COM
617-212-3123

SHEET INDEX:

T-1: TITLE SHEET
N-1: GENERAL NOTES
A-1: SITE PLAN
A-2: GENERATOR SPECIFICATIONS
A-3: GENERATOR SPECIFICATIONS
A-4: AUTOMATIC TRANSFER SWITCH SPECIFICATIONS
E-1: ELECTRICAL DETAILS
G-1: GROUNDING DETAILS

SITE VICINITY :



CONTRACTOR'S NOTES:

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON THE JOB SITE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. FAILURE TO NOTIFY THE ARCHITECT/ENGINEER PLACES THE RESPONSIBILITY ON THE CONTRACTOR TO CORRECT THE DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.

APPROVALS:

FSA CM	DATE
RF ENGINEER	DATE
FOPS	DATE
T-MOBILE ENGINEERING AND DEVELOPMENT	DATE
	DATE
	DATE

APPLICANT:
T-Mobile
T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
860-692-7100

PROJECT MANAGER

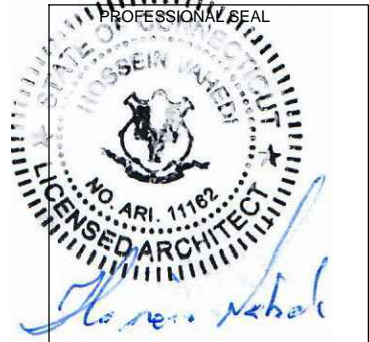


420 MAIN STREET, BLDG 4
STURBRIDGE, MA 01566
203-275-6669

ENGINEERING CONSULTANT:

FORESITE LLC
Architects . Engineers . Surveyors

462 WALNUT STREET, SUITE 1
NEWTON, MA 02460
617-212-3123



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REV	DESCRIPTION	DATE
A	PRELIMINARY	08/02/21
B	ADDED AAV CABINET	08/03/21
0	FINAL ISSUED	08/16/21

SITE NUMBER: CT11446A
SITE NAME: CL&P MONOPOLE WINDSOR
SITE ADDRESS: CL&P STRUCTURE# 20073
301 T ROOD AVE
WINDSOR, CT 06095

SHEET TITLE:
T-1: TITLE SHEET

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GENERAL NOTES:

1.

THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
2.

THE ARCHITECT/ENGINEER HAS MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3.

THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE CLIENT'S REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK.
5.

THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
6.

THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S / VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
7.

THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS DURING CONSTRUCTION.
8.

THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT SECTIONS OF THE BASIC STATE BUILDING CODE, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJEC
9.

THE CONTRACTOR SHALL NOTIFY THE CLIENT'S REPRESENTATIVE IN WRITING WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE CLIENT'S REPRESENTATIVE.
10.

THE WORK SHALL CONFORM TO THE CODES AND STANDARDS OF THE FOLLOWING AGENCIES AS FURTHER CITED HEREIN:

A.

ASTM: AMERICAN SOCIETY FOR TESTING AND MATERIALS, AS PUBLISHED IN "COMPILATION OF ASTM STANDARDS BUILDING CODES" OR LATEST EDITION.

B.

AWS: AMERICAN WELDING SOCIETY INC. AS PUBLISHED IN "STANDARD D1.1-08, STRUCTURAL WELDING CODE" OR LATEST EDITION.

C.

AISC: AMERICAN INSTITUTE FOR STEEL CONSTRUCTION AS PUBLISHED IN "CODE FOR STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"; "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" (LATEST EDITION).
11.

BOLTING:

A.

BOLTS SHALL BE CONFORMING TO ASTM A325 HIGH STRENGTH, HOT DIP GALVANIZED WITH ASTM A153 HEAVY HEX TYPE NUTS.

B.

BOLTS SHALL BE 3/4"Ø MINIMUM (UNLESS OTHERWISE NOTED)

C.

ALL CONNECTIONS SHALL BE 2 BOLTS MINIMUM.
12.

FABRICATION:

A.

FABRICATION OF STEEL SHALL CONFORM TO THE AISC AND AWS STANDARDS AND CODES (LATEST EDITION).

B.

ALL STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 (LATEST EDITION), UNLESS OTHERWISE NOTED.
13.

ERECTION OF STEEL:

A.

PROVIDE ALL ERECTION EQUIPMENT, BRACING, PLANKING, FIELD BOLTS, NUTS, WASHERS, DRIFT PINS, AND SIMILAR MATERIALS WHICH DO NOT FORM A PART OF THE COMPLETED CONSTRUCTION BUT ARE NECESSARY FOR ITS PROPER ERECTION.

B.

ERECT AND ANCHOR ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC REFERENCE STANDARDS. ALL WORK SHALL BE ACCURATELY SET TO ESTABLISHED LINES AND ELEVATIONS AND RIGIDLY FASTENED IN PLACE WITH SUITABLE ATTACHMENTS TO THE CONSTRUCTION OF THE BUILDING.

C.

TEMPORARY BRACING, GUYING AND SUPPORT SHALL BE PROVIDED TO KEEP THE STRUCTURE SAFE AND ALIGNED AT ALL TIMES DURING CONSTRUCTION, AND TO PREVENT DANGER TO PERSONS AND PROPERTY. CHECK ALL TEMPORARY LOADS AND STAY WITHIN SAFE CAPACITY OF ALL BUILDING COMPONENTS.
14.

RELATED WORK, FURNISH THE FOLLOWING WORK AS SPECIFIED UNDER CONSTRUCTION DOCUMENTS, BUT COORDINATE WITH OTHER TRADES PRIOR TO BID:

A.

FLASHING OF OPENING INTO OUTSIDE WALLS
- B.

SEALING AND CAULKING ALL OPENINGS
- C.

PAINTING
- D.

CUTTING AND PATCHING
15.

REQUIREMENTS OF REGULATORY AGENCIES:

A.

FURNISH U.L. LISTED EQUIPMENT WHERE SUCH LABEL IS AVAILABLE. INSTALL IN CONFORMANCE WITH U.L. STANDARDS WHERE APPLICABLE.

B.

INSTALL ANTENNA, ANTENNA CABLES, GROUNDING SYSTEM IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION IN EFFECT AT PROJECT LOCATION AND RECOMMENDATIONS OF STATE AND LOCAL BUILDING CODES, AND SPECIAL CODES HAVING JURISDICTION OVER SPECIFIC PORTIONS OF WORK. THIS WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

C.

TIA-EIA - 222 (LATEST EDITION). STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES.

D.

FAA - FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULAR AC 70/7460-IH, OBSTRUCTION MARKING AND LIGHTING.

E.

FCC - FEDERAL COMMUNICATIONS COMMISSION RULES AND REGULATIONS FORM 715, OBSTRUCTION MARKING AND LIGHTING SPECIFICATION FOR ANTENNA STRUCTURES AND FORM 715A, HIGH INTENSITY OBSTRUCTION LIGHTING SPECIFICATIONS FOR ANTENNA STRUCTURES.

F.

AISC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS (LATEST EDITION).

G.

NEC - NATIONAL ELECTRICAL CODE - ON TOWER LIGHTING KITS.

H.

UL - UNDERWRITER'S LABORATORIES APPROVED ELECTRICAL PRODUCTS.

I.

IN ALL CASES, PART 77 OF THE FAA RULES AND PARTS 17 AND 22 OF THE FCC RULES ARE APPLICABLE AND IN THE EVENT OF CONFLICT, SUPERSEDE ANY OTHER STANDARDS OR SPECIFICATIONS.

J.

2018 LIFE SAFETY CODE NFPA - 101.

APPLICANT:

T-Mobile

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
860-692-7100

PROJECT MANAGER

NORTHEAST
SITE SOLUTIONS

Turning Wireless Development

420 MAIN STREET, BLDG 4
STURBRIDGE, MA 01566
203-275-6669

ENGINEERING CONSULTANT:

FORESITE

LLC

Architects . Engineers . Surveyors

462 WALNUT STREET, SUITE 1
NEWTON, MA 02460
617-212-3123

PROFESSIONAL SEAL

NO. 11162

STATE OF MASSACHUSETTS

REGISTERED ARCHITECT

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REV	DESCRIPTION	DATE
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B	ADDED AAV CABINET	08/03/21
0	FINAL ISSUED	08/16/21

SITE NUMBER: CT11446A

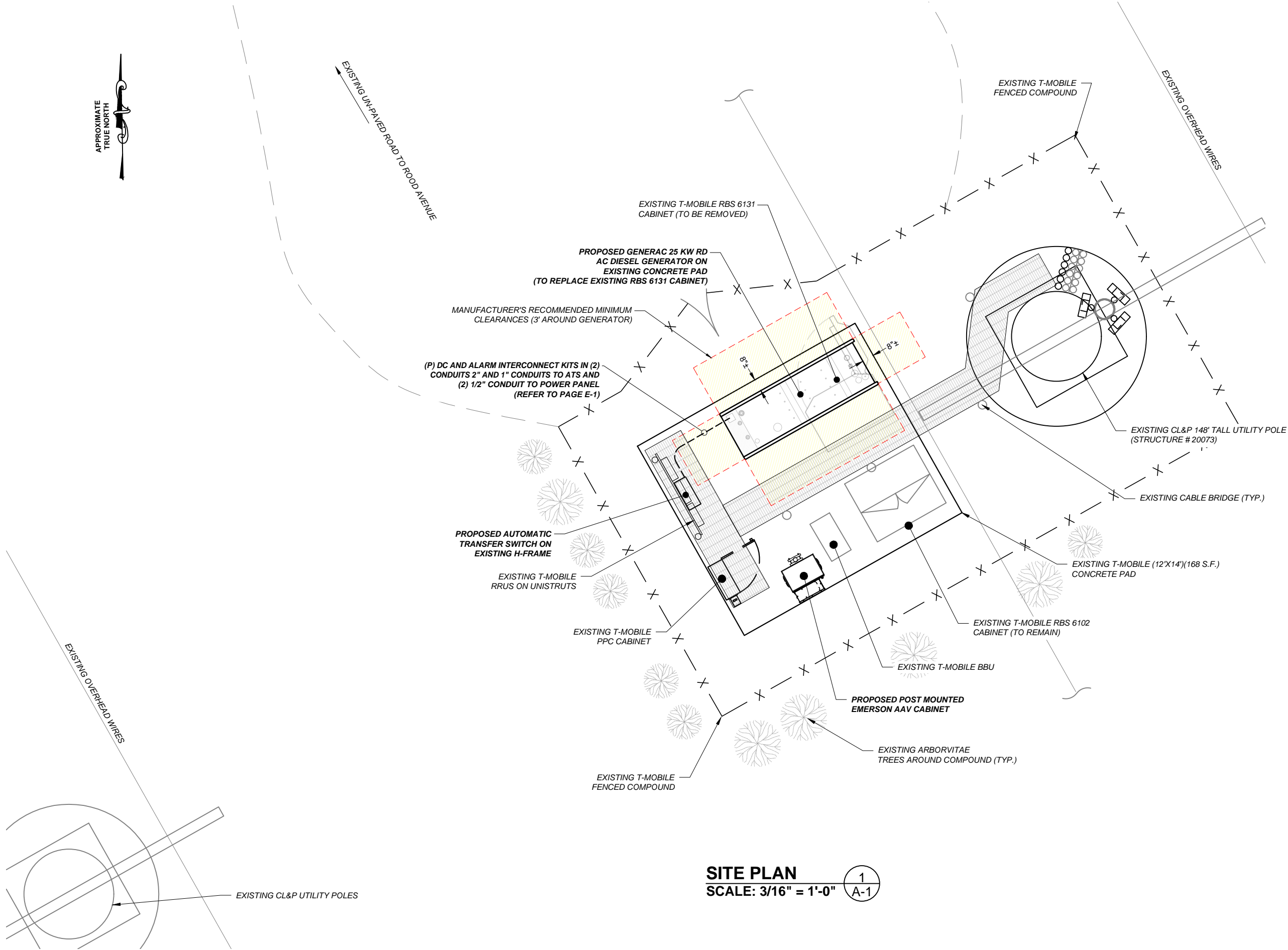
SITE NAME: CL&P MONOPOLE WINDSOR

SITE ADDRESS: CL&P STRUCTURE# 20073
301 T ROOD AVE
WINDSOR, CT 06095

SHEET TITLE:

N-1: GENERAL NOTES

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SITE PLAN
SCALE: 3/16" = 1'-0"

1
A-1

APPLICANT:
T-Mobile
T-MOBILE NORTHEAST LLC
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
860-692-7100

PROJECT MANAGER

420 MAIN STREET, BLDG 4
STURBRIDGE, MA 01566
203-275-6669

ENGINEERING CONSULTANT:
FORESITE LLC
Architects . Engineers . Surveyors
462 WALNUT STREET, SUITE 1
NEWTON, MA 02460
617-212-3123


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SHEET TITLE:
A-1: PLOT PLAN

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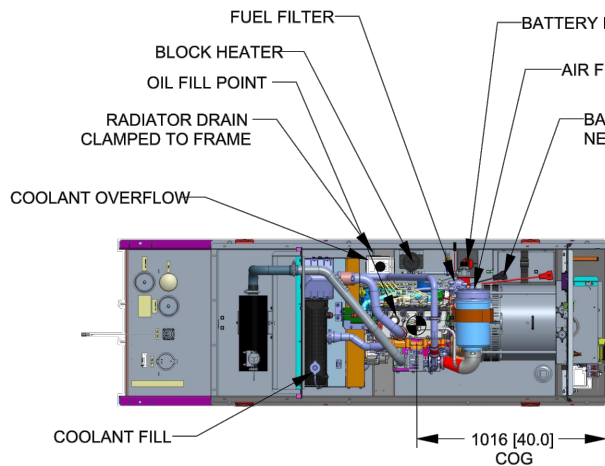
GENERAC RD 25 KW AC DIESEL GENERATOR AND TANK

3

SH 1/2 REV 2 WINDCHILL VERSION 2.12

1

B



1699 [66.9]
MAIN LINE CIRCUIT
BREAKER HEIGHT
(NOTE 3)

1650 [65.0]
CUSTOMER
HIGH VOLTAGE
CONNECTION
(NOTE 4)

1272 [50.1]
LOW VOLTAGE
STUB-UP
(NOTE 4)

WEIGHT DATA WITH EMPTY BASE TANK (SEE NOTE 6)	
GENERATOR AS SHOWN	1336 [2946]
WITH WOODEN SHIPPING SKID	1354 [2984]

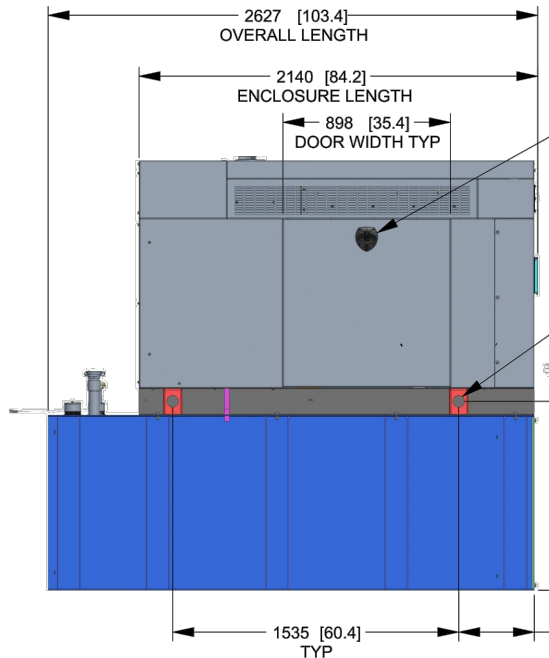
WEIGHT: KG [LBS]
DIMENSIONS: MM [INCHES]

- NOTES:
1. THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, AND LOCAL CODES.
 2. BATTERY (12 VOLT NEGATIVE GROUND SYSTEM).
 3. CONTROL PANEL / CIRCUIT BREAKER INFORMATION:
 - MAIN LINE CIRCUIT BREAKER 125 AMPS
 - SEE SPECIFICATION SHEET OR OWNERS MANUAL
 - ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR.
 - CONTROL PANEL INCLUDES INTEGRATED BATTERY CHARGER
 4. REMOVE THE REAR STUB-UP AND REAR ENCLOSURE COVER PANEL TO ACCESS THE STUB-UP AREAS AS FOLLOWS:
 - HIGH VOLTAGE CONNECTION INCLUDING AC LOAD LEAD CONDUIT CONNECTION, NEUTRAL CONNECTION, AND BATTERY CHARGER 120 VOLT AC (0.5 AMP MAX) CONNECTION.
 - LOW VOLTAGE CONNECTION INCLUDING TRANSFER SWITCH CONTROL WIRES
 5. ENGINE SERVICE CONNECTIONS
OIL DRAIN: 1/2" NPT
RADIATOR DRAIN : HOSE CLAMPED TO FRAME
 6. CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
 7. BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
 8. REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
 9. MOUNTING BOLTS OR STUDS TO MOUNTING SURFACE SHALL BE 5/8-11 GRADE 5 (USE STANDARD SAE TORQUE SPECS)
 10. MUST ALLOW FREE FLOW OF INTAKE AIR, DISCHARGE AIR AND EXHAUST. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
 11. GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM RADIATOR IS NOT RECIRCULATED. RECOMMENDED MINIMUM PERIMETER(3FT) AND VERTICAL OVER EXHAUST (5FT) CLEARANCE FOR SITE LOCATION.
 12. GENERATOR MUST BE GROUNDED.

B

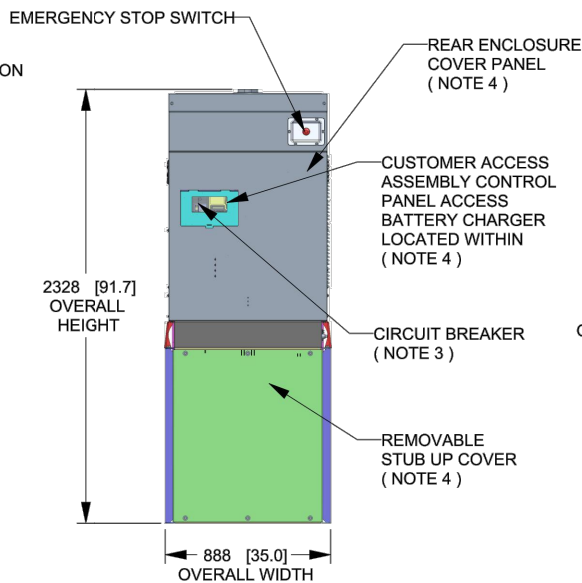
A

TOP VIEW
(SHOWN WITH ENCLOSURE REMOVED)

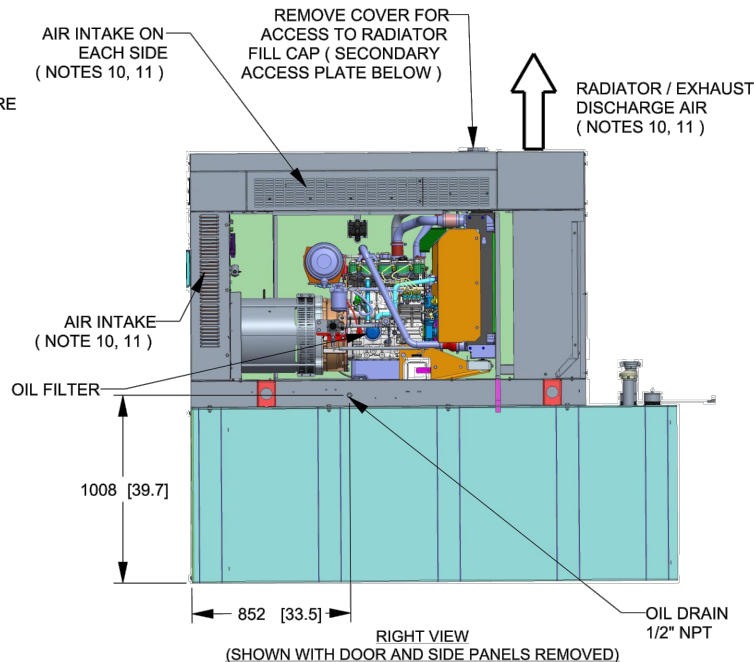


LEFT VIEW

REAR VIEW
(SHOWN WITH REAR COVER PANEL REMOVED)



REAR VIEW



RIGHT VIEW
(SHOWN WITH DOOR AND SIDE PANELS REMOVED)

A

DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

INSTALLATION DRAWING

4

3

2

1

GENERATOR SPECIFICATIONS
N.T.S.

1
A-2

APPLICANT:
T-Mobile
T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
860-692-7100

PROJECT MANAGER

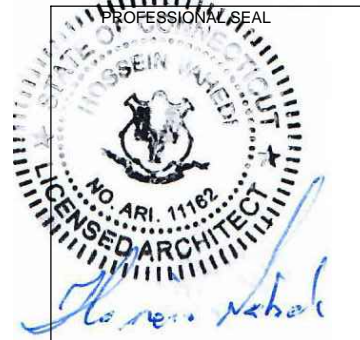


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ENGINEERING CONSULTANT:

FORESITE LLC
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617-212-3123



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SITE ADDRESS: CL&P STRUCTURE# 20073
301 T ROOD AVE
WINDSOR, CT 06095

SHEET TITLE:
A-2: GENERATOR SPECIFICATIONS

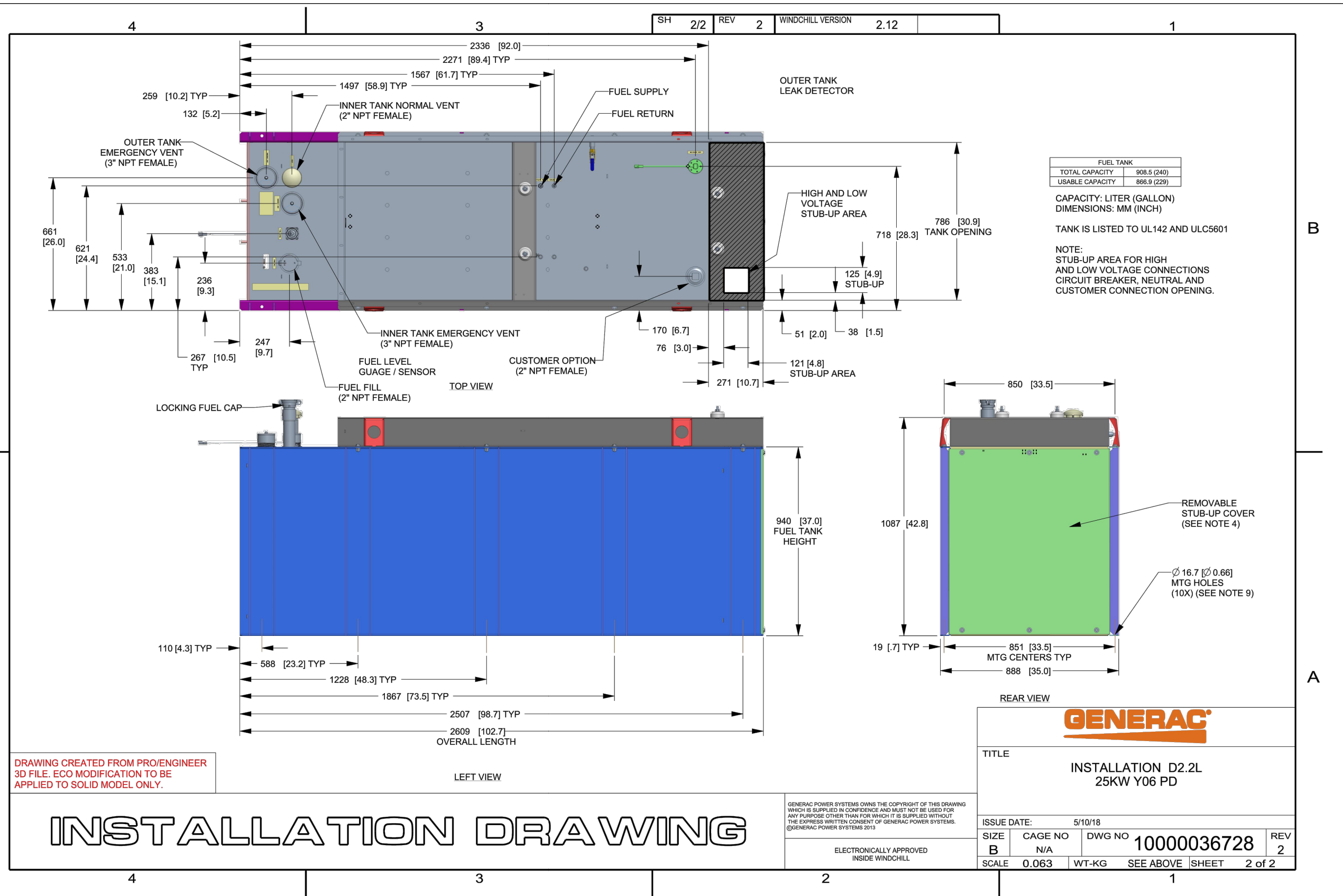
GENERAC

TITLE
INSTALLATION D2.2L
25KW Y06 PD

ISSUE DATE: 5/10/18	
SIZE B	CAGE NO N/A
SCALE 0.031	WT-KG SEE ABOVE
DWG NO 10000036728	REV 2
SHEET 1 of 2	

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ELECTRONICALLY APPROVED
INSIDE WINDCHILL



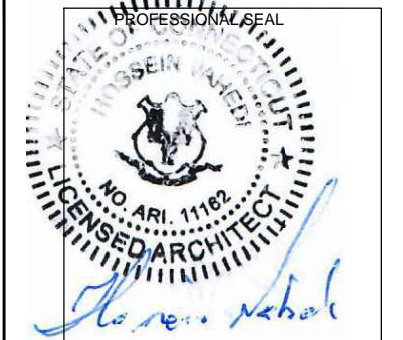
APPLICANT:
T-Mobile-
T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD SOUTH
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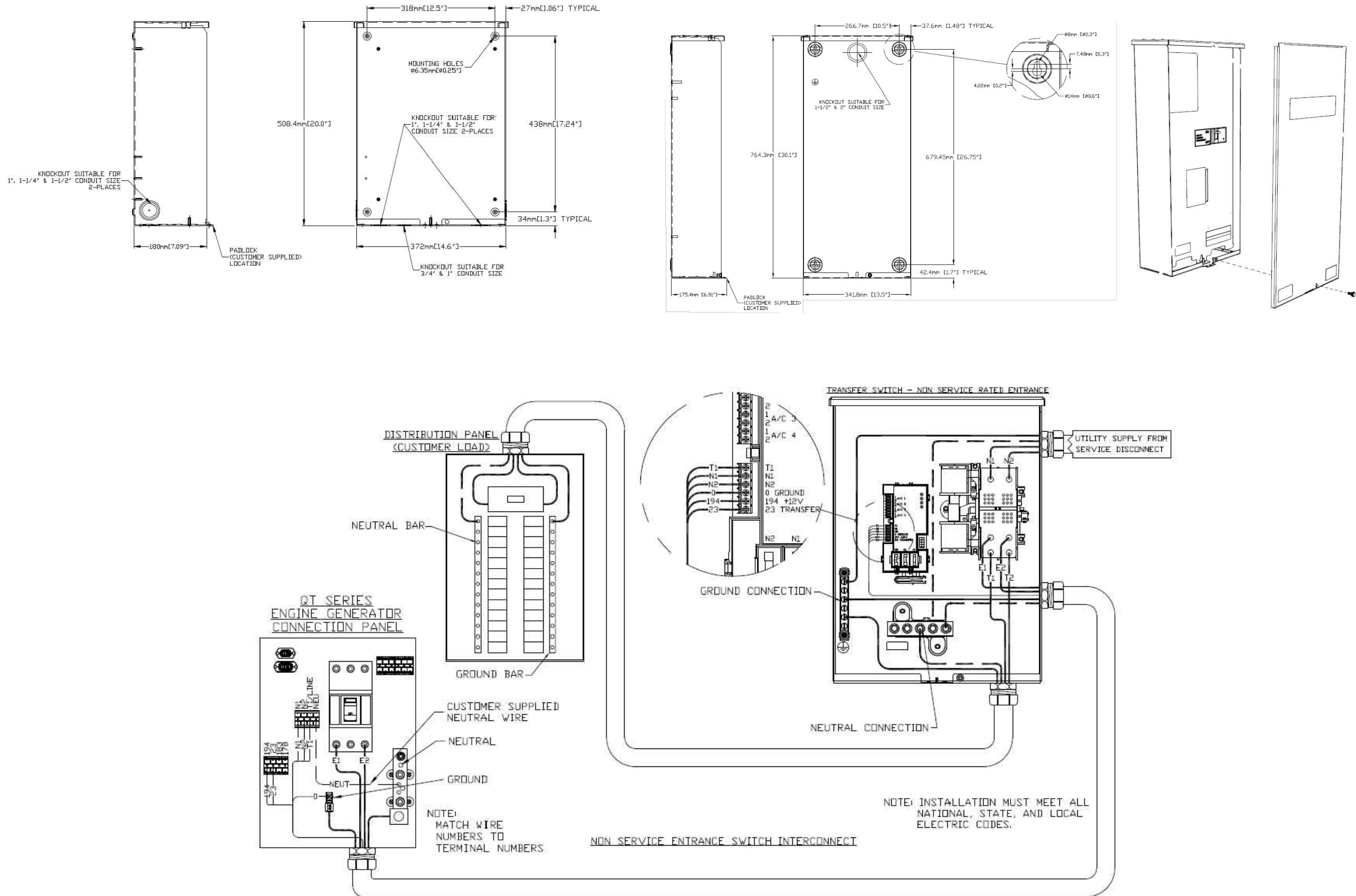
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 WINDSOR, CT 06095

SHEET TITLE:

A-3: GENERATOR SPECIFICATIONS

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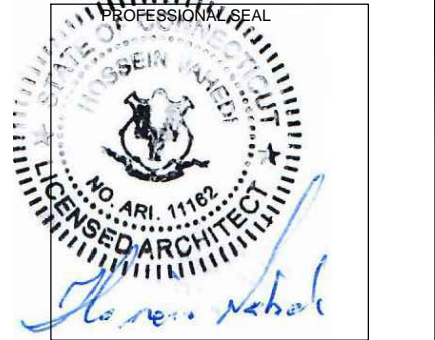
AUTOMATIC TRANSFER SWITCH DETAILS
SCALE: N.T.S.

1
A-4

APPLICANT:
T-Mobile
T-MOBILE NORTHEAST LLC
35 GRIFFIN ROAD SOUTH
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860-692-7100

PROJECT MANAGER
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SHEET TITLE:
A-4: AUTOMATIC TRANSFER SWITCH
DETAILS

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GENERAL ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES INCLUDING LATEST EDITIONS OF:

NFPA - NATIONAL FIRE PROTECTION ASSOCIATION
UL - UNDERWRITERS LABORATORIES
NEC - 2017 NATIONAL ELECTRICAL CODE NEMA - NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION
OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
IBC - 2015 INTERNATIONAL BUILDING CODE

2. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PRODUCED PER SPECIFICATION REQUIREMENTS.

3. THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.

4. GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.

5. ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) ND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.

6. RIGID STEEL CONDUITS SHALL BE GROUNDED AT BOTH ENDS.

7. ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THIN INSULATION.

8. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NAME 3R ENCLOSURE.

9. GROUNDING SHALL COMPLY WITH NEC ART. 250.

10. GROUNDING COAX CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURES COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.

11. USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSTALLATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE GROUND.

12. ALL GROUND CONNECTION TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.

13. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AS RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY BOND ANY METER OBJECTS WITHIN 7 FEET OF PROPOSED EQUIPMENT OR CABINET TO MASTER GROUND BAR.

14. CONNECTIONS TO MGB SHALL BE ARRANGED IN THREE MAIN GROUPS: SURGE PROCEDURES (COAXIAL CABLE GROUND KITS, TELCO AND POWER PANEL GROUND); (GROUNDING ELECTRODE RING OR BUILDING STEEL); NON-SURGING OBJECTS (EGB GROUND IN RBS UNIT).

15. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.

16. APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTION.

17. TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION.

18. BOND ANY METAL OBJECTS WITHIN 7 FEET OF PROPOSED EQUIPMENT OR CABINET TO MASTER GROUND BAR.

19. VERIFY PROPOSED SERVICE UPGRADE WITH LOCAL UTILITY COMPANY PRIOR TO CONSTRUCTION.

20. EXISTING UNDERGROUND UTILITY LOCATIONS ARE UNKNOWN. GENERAL CONTRACTOR SHALL HAND-EXCAVATE TO REQUIRED SUB-GRADE DEPTH, SUFFICIENT TEST HOLES OR AS DIRECTED / REQUIRED BY CONSTRUCTION MANAGER. ALL PROPOSED UNDERGROUND UTILITY TRENCHES SHALL BE HAND-EXCAVATE AS REQUIRED. GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED SPECIAL TEMPORARY PROTECTION OF, PHYSICAL DAMAGE TO, OR REPAIR OF EXISTING UNDERGROUND CONDUIT INCLUDING RESTORATION OF SERVICE.

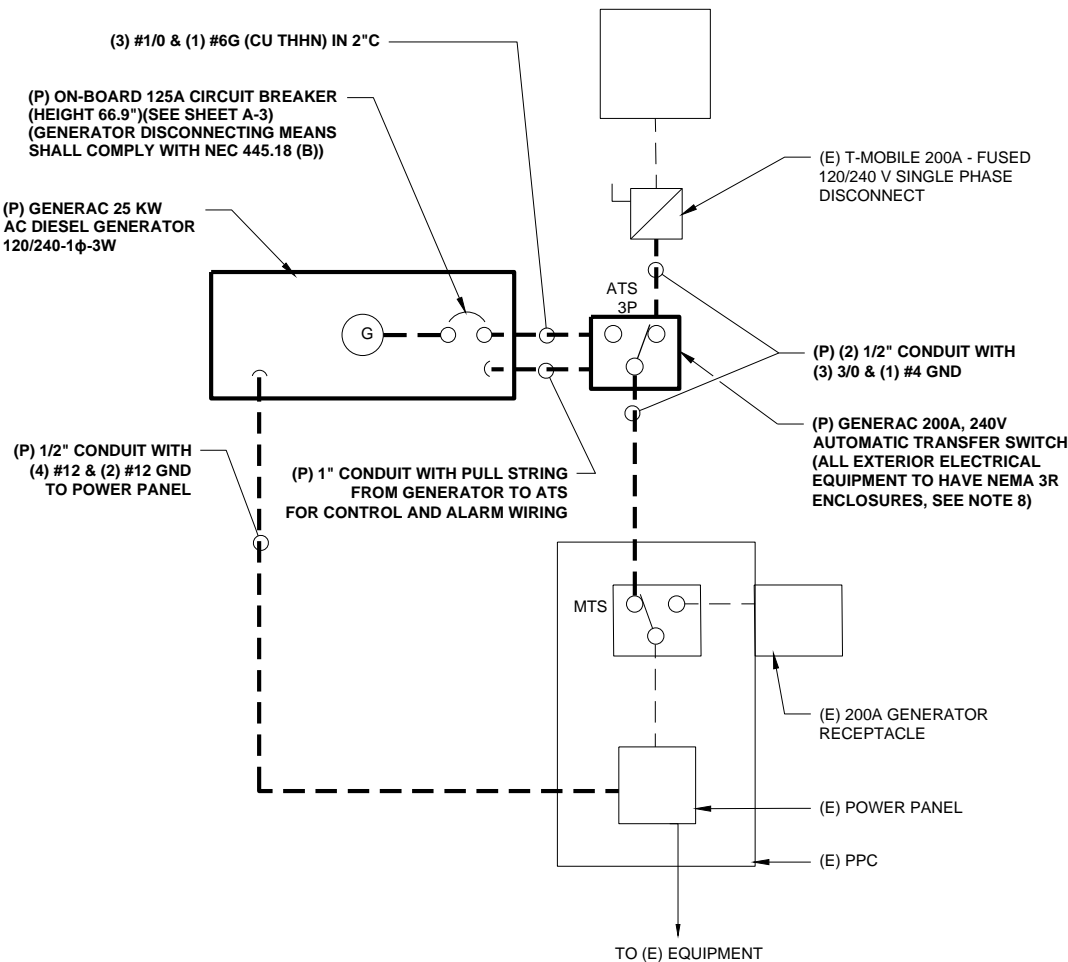
21. PROVIDE SLIP JOINS WHERE CONDUITS TRANSITION FROM UNDERGROUND TO ABOVE GROUND.

NOTES:

DIAGRAM AS SHOWN, IS A GENERIC ROUTING SCHEMATIC BASED ON AVAILABLE INFORMATION AND MAY NOT REPRESENT ACTUAL FIELD CONDITIONS. CONTRACTOR SHOULD INSTALL THE GENERATOR, EQUIPMENT AND CONNECTIONS BASED ON VERIFIED ELECTRICAL AUDITS AND PER MANUFACTURER'S INSTALLATION GUIDELINES AS WELL AS ALL APPLICABLE LOCAL AND NATIONAL CODES AND REQUIREMENTS.

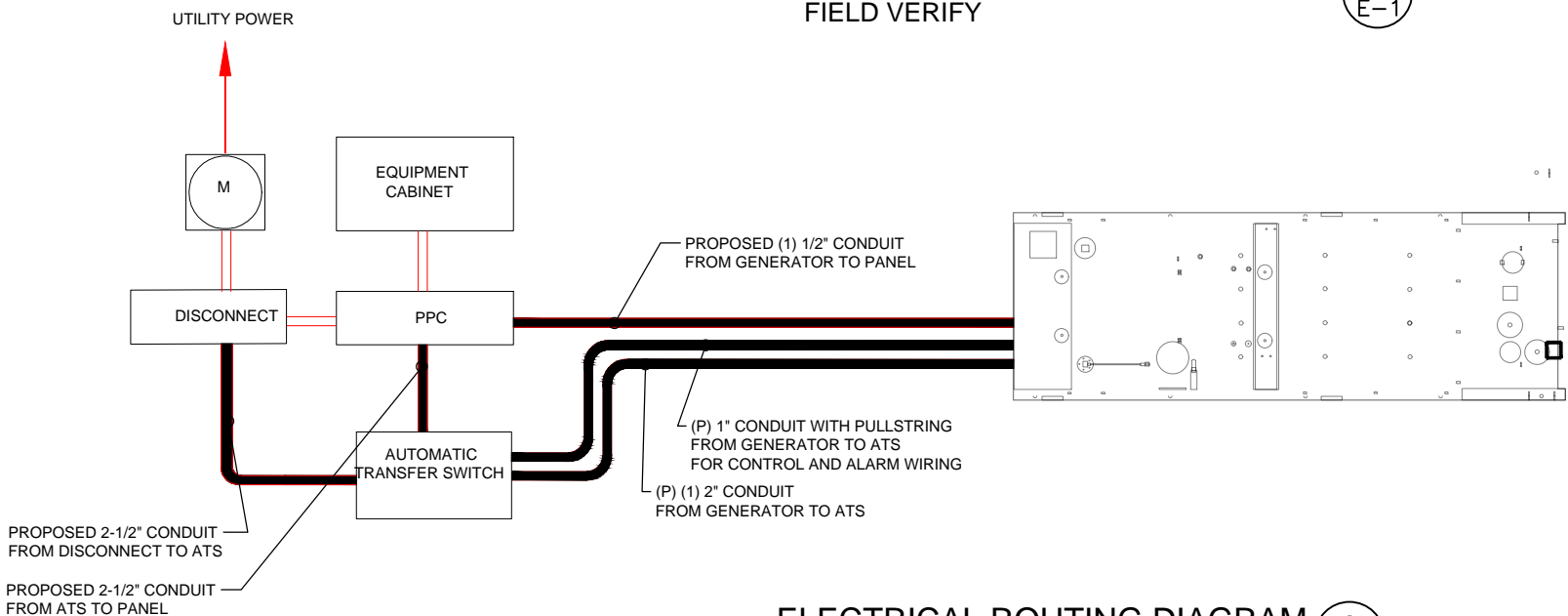
GROUNDING NOTES:

- GROUNDING SHALL COMPLY WITH NEC ART. 250 AND MANUFACTURER'S RECOMMENDATIONS. TIE INTO THE EXISTING GROUNDING SYSTEM.
- CONTRACTOR SHALL INSTALL GROUND RODS ON ALL UNDERGROUND GROUNDING RUNS LONGER THAN 10'. GROUND RODS WILL BE INSTALLED ON 20' CENTERS MAXIMUM.
- ALL DOWN CONDUCTORS MUST GO DOWN PER NFPA 780.
- CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHEN THE GROUNDING SYSTEM IS COMPLETE. THE CONSTRUCTION MANAGER SHALL INSPECT THE GROUNDING SYSTEM PRIOR TO BACKFILLING.
- CONTRACTOR MY USE EXISTING CONDUITS AND CONDUCTORS PROVIDED THEY ARE IN GOOD CONDITION AND ARE SUFFICIENTLY RATED.



TYP. ONE LINE DIAGRAM
FIELD VERIFY

1
E-1



ELECTRICAL ROUTING DIAGRAM
SCALE: N.T.S.

2
E-1

APPLICANT:
T-Mobile
T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
860-692-7100

PROJECT MANAGER

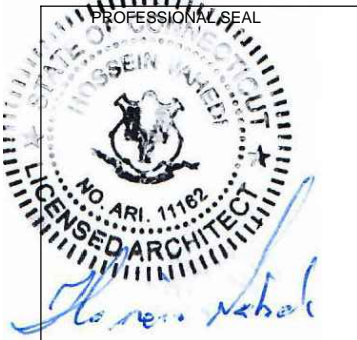


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203-275-6669

ENGINEERING CONSULTANT:

FORESITE LLC
Architects . Engineers . Surveyors

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617-212-3123



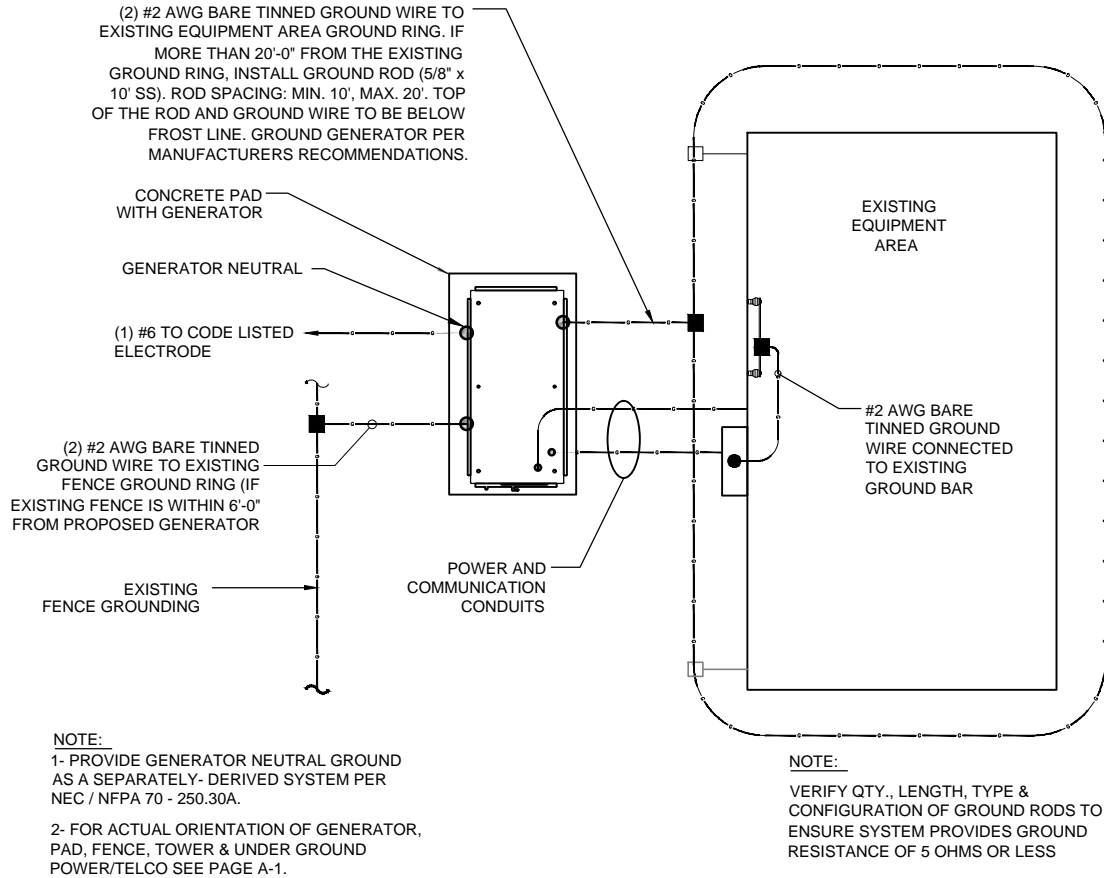
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SITE ADDRESS: CL&P STRUCTURE# 20073
301 T ROOD AVE
WINDSOR, CT 06095

SHEET TITLE:
E-1: ELECTRICAL DETAILS

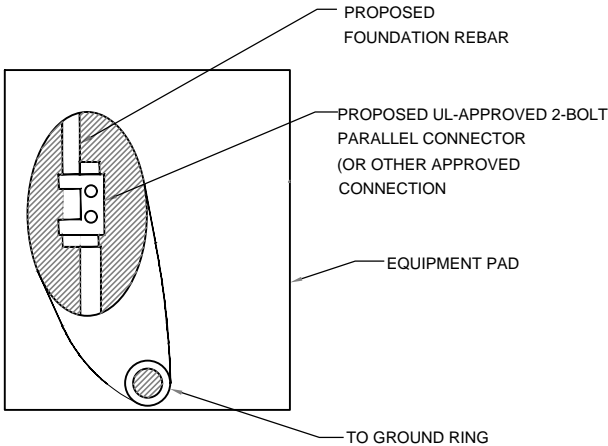
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GROUND PLAN 1
NTS G-1

NOTES:

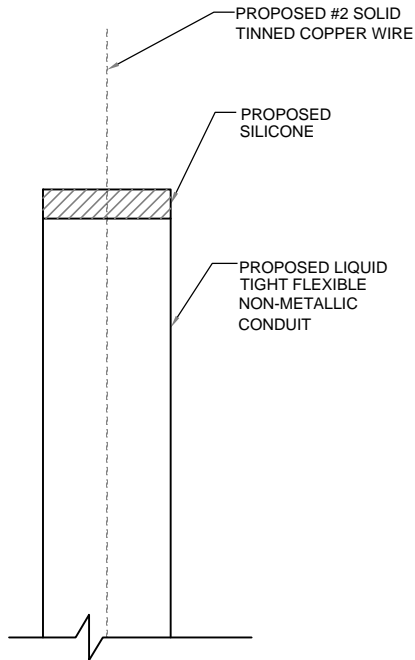
1. CONNECTION SHALL BE COVERED BY NO LESS THAN 2" OF CONCRETE.
2. ATTEMPT TO MAKE CONNECTION TO A 6'-0" RUN OF REBAR OR GREATER.
3. APPLY HEAT SHRINK OR ELECTRICAL TAPE AROUND THE CONDUCTOR TO AVOID CORROSION.



EQUIPMENT PAD GROUNDING 2
NTS G-1

NOTE:

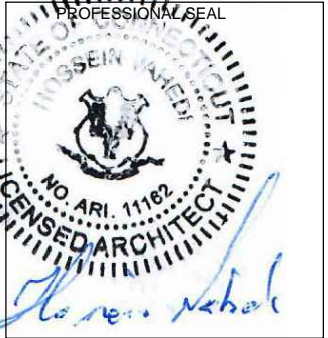
CONTRACTOR TO USE CLEAR OR GRAY SILICONE AS NECESSARY TO SEAL LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT.



GROUND WIRE WEATHERPROOFING 3
NTS G-1

APPLICANT:
T-Mobile
T-MOBILE NORTHEAST LLC
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
860-692-7100

PROJECT MANAGER
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ENGINEERING CONSULTANT:
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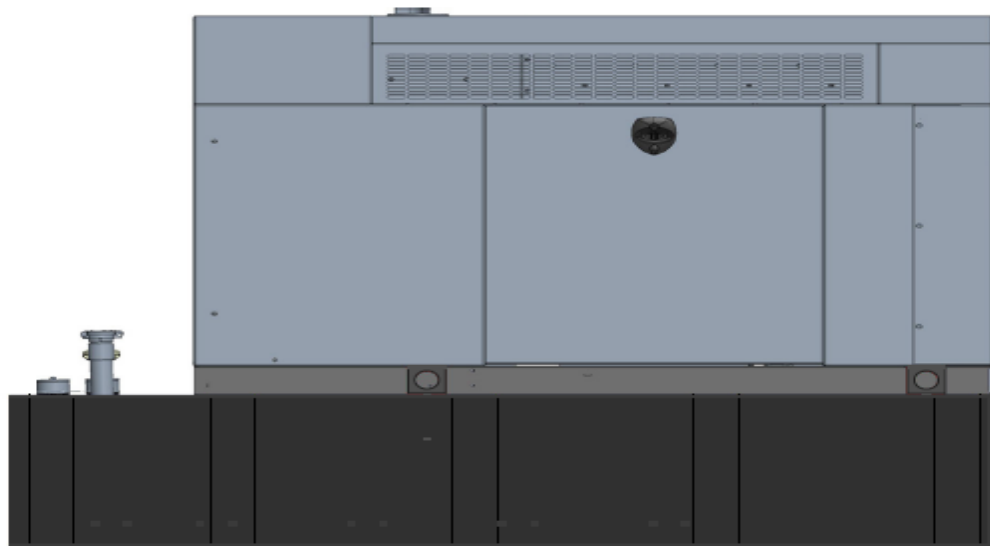
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SITE ADDRESS: CL&P STRUCTURE# 20073
301 T ROOD AVE
WINDSOR, CT 06095

SHEET TITLE:
G-1: GROUNDING DETAILS

Exhibit D

Generac RD025 Design Document

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



The following are responsible for this project document:

Kevin Smith

SR. Engineer (770) 256-3594

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

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

1 Introduction / Project Summary

1.1 Purpose of Project

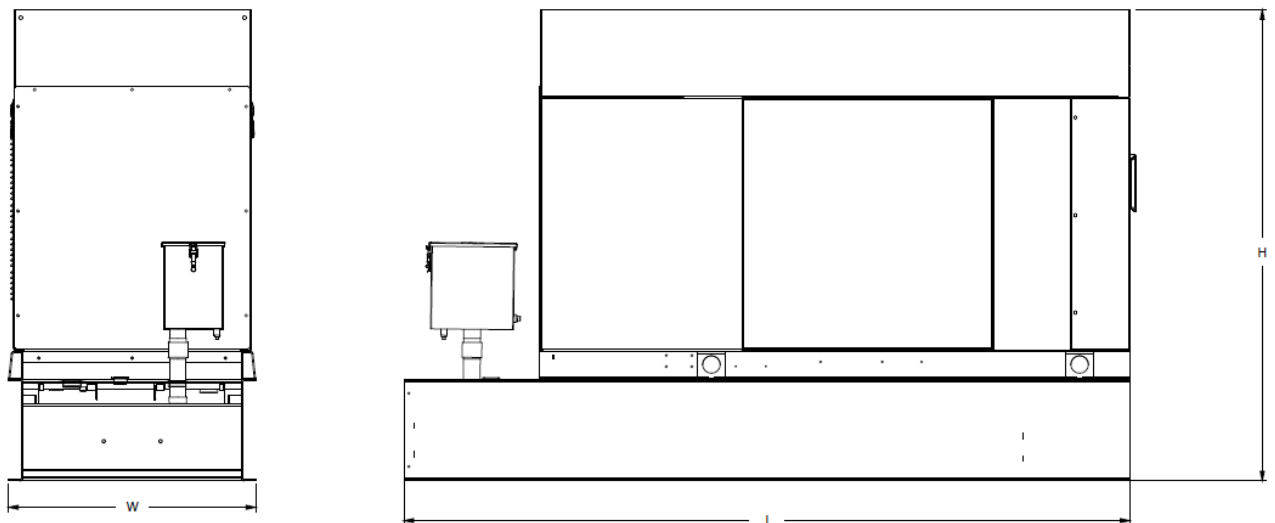
T-Mobile's nationwide cell site hardening plan is providing a refuellable backup power system capable of powering a site for a minimum of 48 hours before refueling is required. The purpose of this project is to give T-Mobile customers reliable service during power outages and provide a sufficient layer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

1.2 Feature Description

The Generac RD025 is a 25kW AC, diesel generator is one of the generators selected as part of the T-Mobile RFP in support of the nationwide cell site hardening plan. The RD025 has a Level 2 acoustic enclosure, 3 phase sensing, and $\pm 0.25\%$ 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.

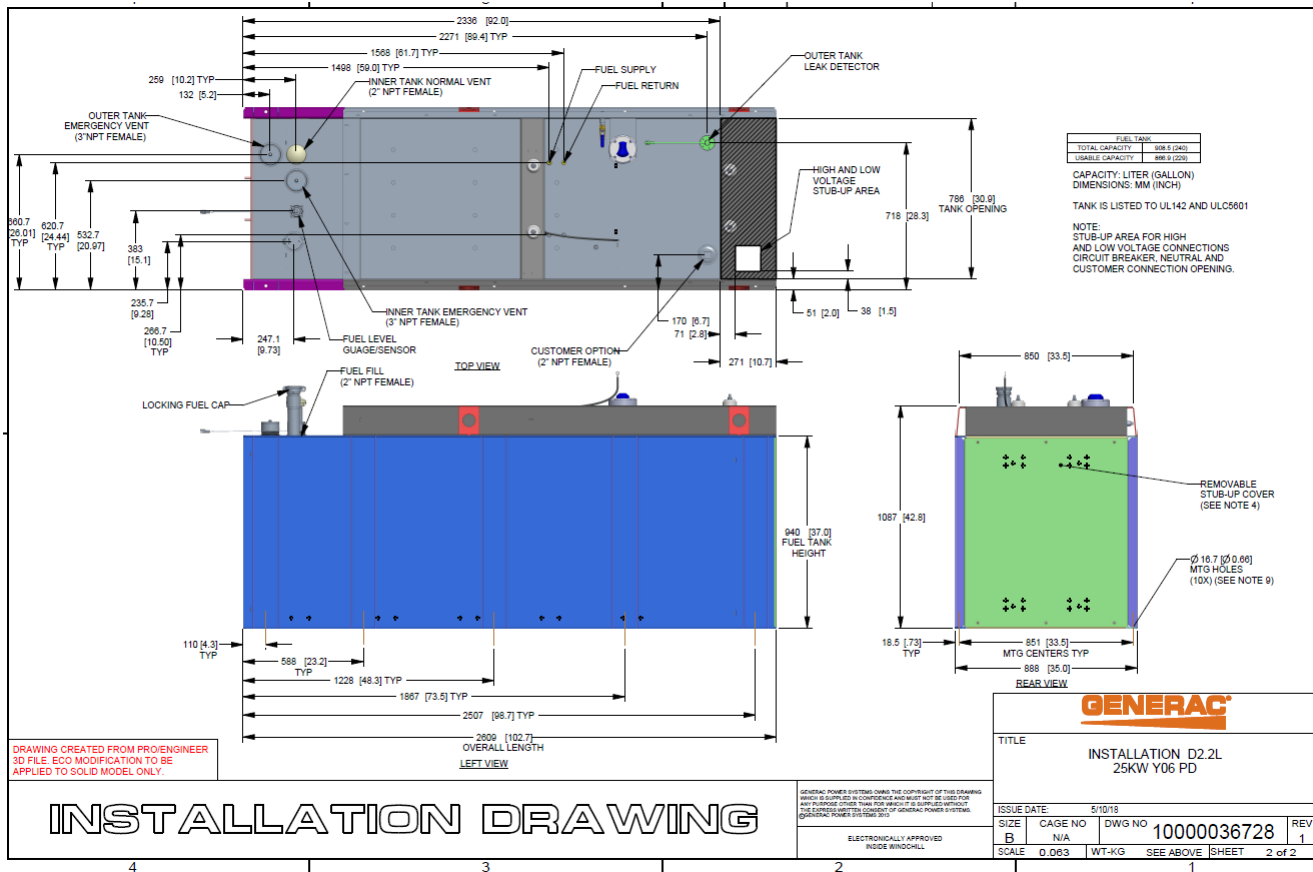


Weights and Dimensions

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

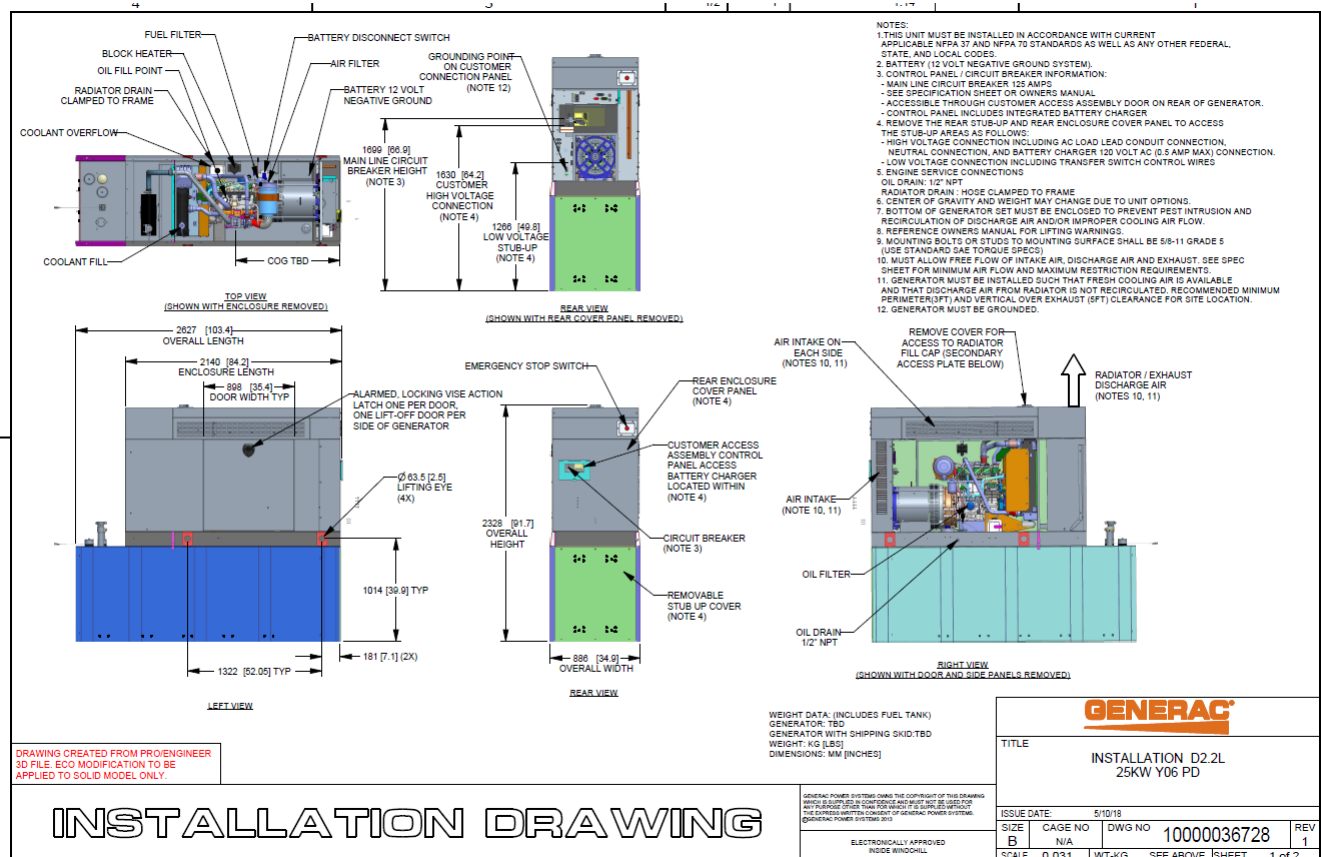
The RD025 will come with a RXSC200A3 and an Evolution controller. The sites considered for the RD025 should not have a DC power consumption above 20kW

RXSC200A3 [Link](#)

RXSC200A3 install drawing [Link](#)

Evolution controller spec sheet [Link](#)

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

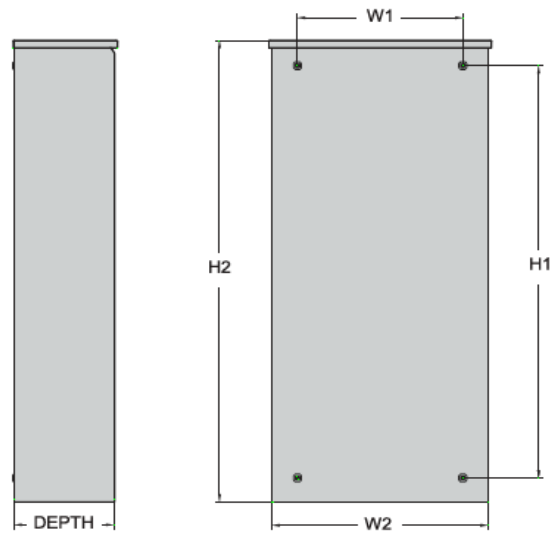


3.2 RXSC200A3 Automatic Transfer Switch

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-Mobile.com)

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

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

Auxiliary Contact

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

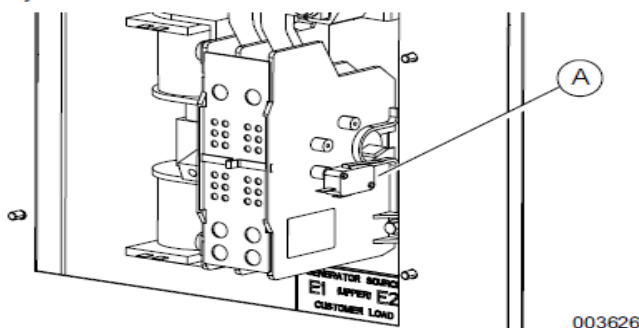


Figure 3-4. Auxiliary Contact

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

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

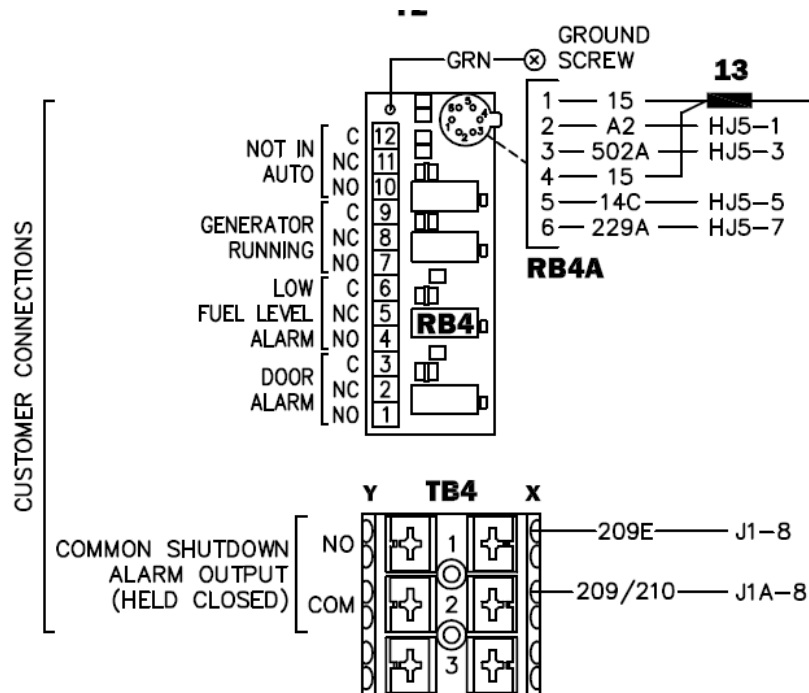
CAUTION

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

(000134a)

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

Customer Connections Inside the RD025



Ericsson UTOVP- ALM8EXP



UTOVP-ALM8EXP

Product no

UTOVP-ALM8EXP

NFD30234/08

RPM777143/01200

OVP Expansion Kit for 8 External Alarms Qty

Denomination

OVP Expansion Kit for 8 External Alarms 1

OVERVOLTAGE ARRESTER/OVP-ALM 8 1

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

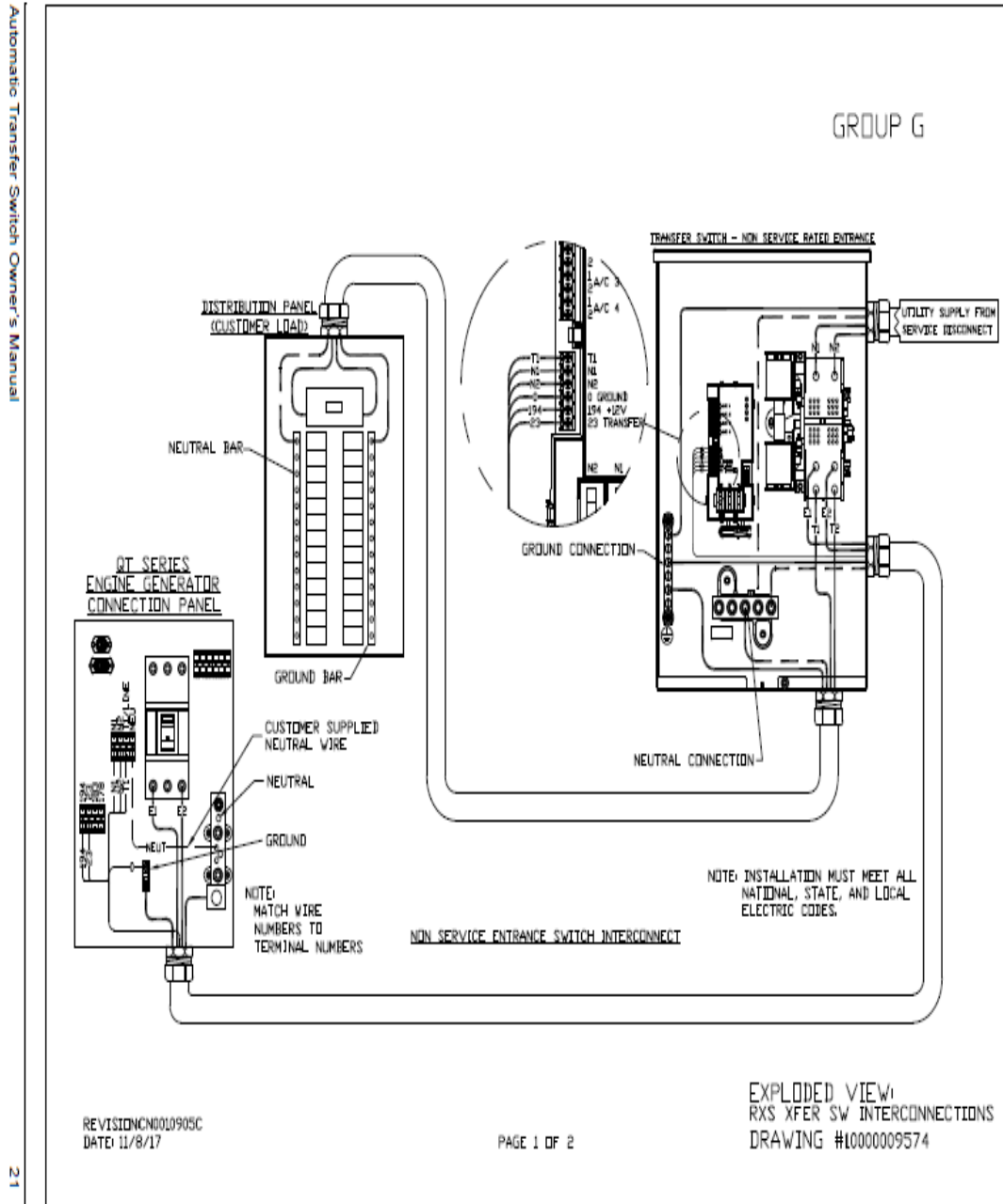
Level 2 Acoustic Enclosure provides a noise level of 67.5dBA. It is EPA certified and meets NFPA 99 and 110 requirements(NFPA National Fire Protection Association). The RD025 generator engines is a tier 4 engine and meets the EPA final standards.

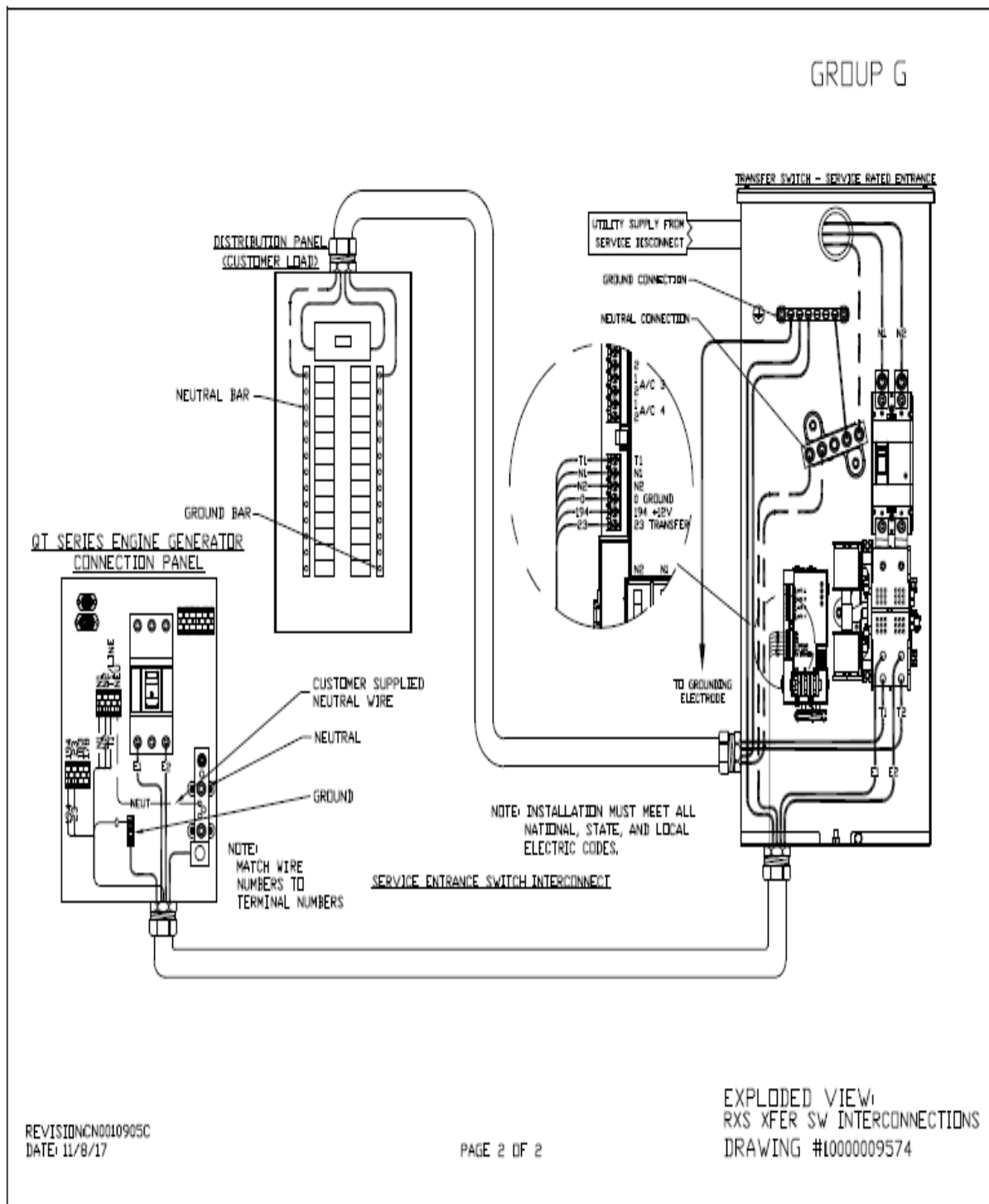
6 Configuration/Diagrams

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

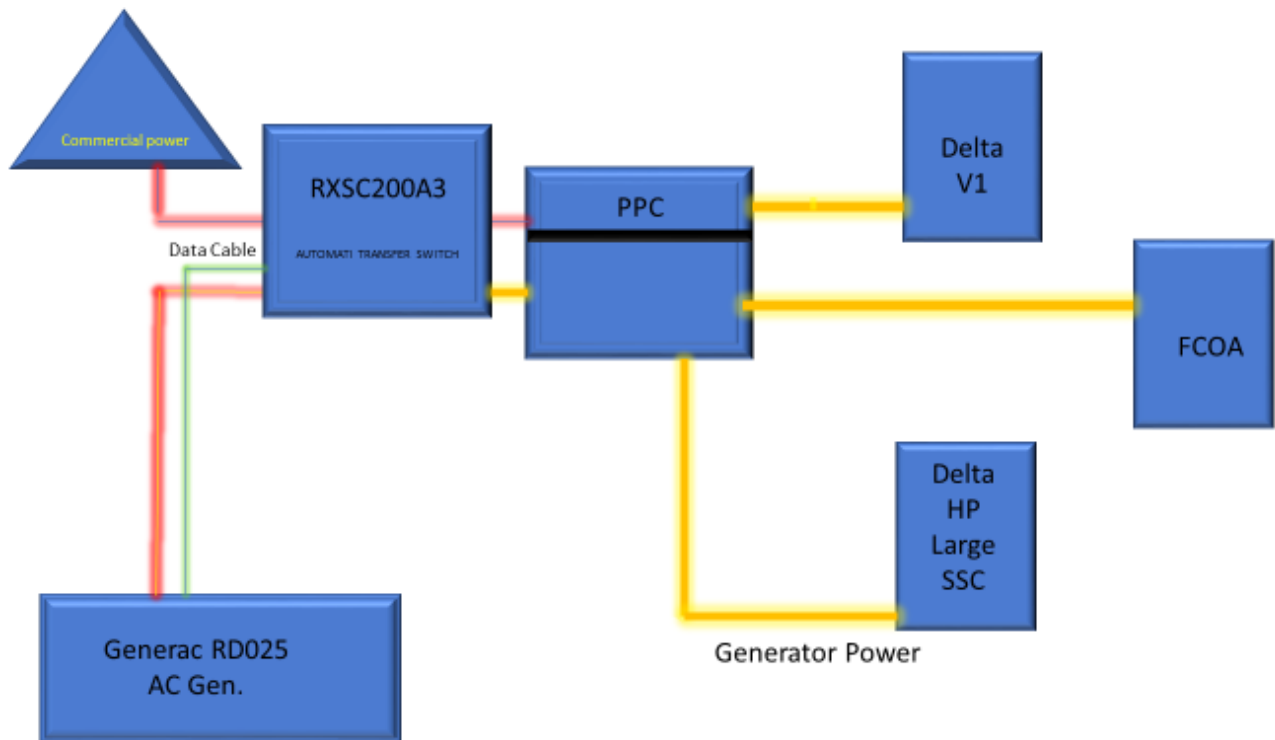




REVISION: NCN0010905C
DATE: 11/8/17

PAGE 2 OF 2

Compound Diagram:



7 Maintenance

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


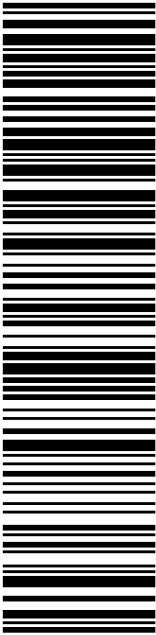
T-Mobile requires this minimum service checklist for the generator engine:

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

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

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

Exhibit E

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SHIP TO: DONALD S TRINKS MAYOR OF WINDSOR 275 BROAD ST WINDSOR CT 06095-2940		USPS TRACKING #  9405 5036 9930 0486 0966 71	
Electronic Rate Approved #038555749			



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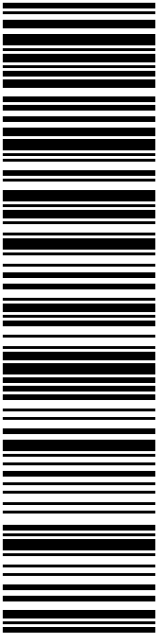
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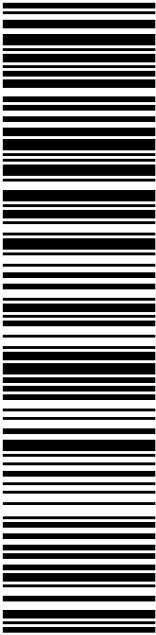
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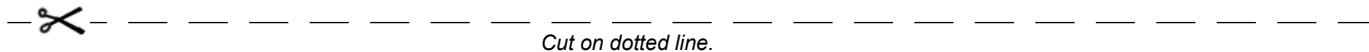
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