

July 26, 2021

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

RE: Notice of Exempt Modification
 150 Yale Avenue, New Haven, CT 06520 (also known as 274 Derby Avenue)
 Latitude: 41.31377000
 Longitude: -72.95955900
 T-Mobile Site#: CT11333D - Hardening

Dear Ms. Bachman:

T-Mobile currently maintains three (3) antennas at the 85-foot level of the existing 90-foot flagpole at 150 Yale Avenue, New Haven, CT. The 90-foot flagpole and property is owned by Yale University. T-Mobile now intends to add a 25Kw generator to a proposed 10'x4' concrete pad within the existing compound.

Planned Modifications: Ground: Install New: (1) Generac RD025 25 Kw AC Diesel Generator (1) 10' x 4' Concrete Pad (within compound)

The City of New Haven was unable to find records of the original approval of this facility. A copy of the email correspondence with the city is enclosed.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies§ 16- SOj-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.SA. § 16-SOj-73, a copy of this letter is being sent to Mayor Justin Elicker, Elected Official, and Aicha Woods, Executive Director of the City Plan Department of the City of New Haven, as well as the 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,

Kyle Richers Transcend Wireless Cell: 908-447-4716 Email: krichers@transcendwireless.com

Attachments cc: Justin Elicker – Mayor of City of New Haven Aicha Woods – Executive Director of City Plan Department Yale University - Owner

From: Sent: To: Subject: UPS <pkginfo@ups.com> Tuesday, July 27, 2021 9:54 AM KRICHERS@TRANSCENDWIRELESS.COM UPS Delivery Notification, Tracking Number 1ZV257424297894710

Hello, your package has been d Delivery Date: Tuesday, 07/27/2021 Delivery Time: 9:51 AM Left At: FRONT DESK Signed by: SECURITY TRANSCEND WIRELESS	elivered.
Tracking Number:	<u>1ZV257424297894710</u>
Ship To:	CITY OF NEW HAVEN 165 CHURCH STREET 5TH FLOOR NEW HAVEN, CT 06510 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	CT11333D CSC ZO
Download the UPS mobile app	

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From: Sent: To: Subject: UPS <pkginfo@ups.com> Tuesday, July 27, 2021 9:56 AM KRICHERS@TRANSCENDWIRELESS.COM UPS Delivery Notification, Tracking Number 1ZV257424298464709

Hello, your package has been de	livered.
Delivery Date: Tuesday, 07/27/2021	
Delivery Time: 9:53 AM	
Left At: FRONT DESK	
Signed by: ID Verified	
TRANSCEND WIRELESS	
Tracking Number:	<u>1ZV257424298464709</u>
Ship To:	CITY OF NEW HAVEN 165 CHURCH STREET NEW HAVEN, CT 06510 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	CT11333D CSC EO

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From: Sent: To: Subject: UPS <pkginfo@ups.com> Tuesday, July 27, 2021 12:56 PM KRICHERS@TRANSCENDWIRELESS.COM UPS Delivery Notification, Tracking Number 1ZV257424299054696



Hello, your package has been delivered. Delivery Date: Tuesday, 07/27/2021 Delivery Time: 12:55 PM Left At: RESIDENTIAL Signed by: CD GUARD

TRANSCEND WIRELESS

Tracking Number:	<u>1ZV257424299054696</u>
Ship To:	YALE UNIVERSITY 2 WHITNEY AVENUE 7TH FLOOR NEW HAVEN, CT 06510 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	CT11333D CSC OWNER

	×	

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150 YALE AV

Location	150 YALE AV	Mblu	377/ 1079/ 00120/ /
Acct#	377 1079 00120	Owner	YALE UNIVERSITY
Assessment	\$61,491,080	Appraisal	\$87,844,400
PID	23838	Building Count	2

Current Value

Appraisal			
Valuation Year Improvements Land Total			Total
2019	\$85,708,100 \$2,136,300 \$		\$87,844,400
Assessment			
Valuation Year	Improvements	Land	Total
2019	\$59,995,670	\$1,495,410	\$61,491,080

Owner of Record

		YALE UNIVERSITY YALE U CONTROLLER FRA PO BOX 208372 NEW HAVEN, CT 06520-8372	Owner Co-Owner Address
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Ownership History

		Ownership His	story		
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
YALE UNIVERSITY	\$0				

Building Information

Building 1 : Section 1

	Building Attributes	
Less Depreciation:	\$82,022,400	
Replacement Cost		
Building Percent Good:	60	
Replacement Cost:	\$136,704,035	
Living Area:	302,262	
Year Built:	1913	

Field	Description
Style:	Stadium
Model	Ind/Lg Com
Grade	Average
Stories:	1
Occupancy	1.00
Exterior Wall 1	Reinforc Concr
Exterior Wall 2	Drivit
Roof Structure	Reinforc Concr
Roof Cover	Metal/Tin
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Dirt/None
Interior Floor 2	Concr-Finished
Heating Fuel	None
Heating Type	None
АС Туре	None
Struct Class	
Bldg Use	STADIUMS
Total Rooms	
Total Bedrms	00
Total Baths	0
NBHD Code	
1st Floor Use:	3650
Heat/AC	NONE
Frame Type	REINF. CONCR
Baths/Plumbing	LIGHT
Ceiling/Wall	NONE
Rooms/Prtns	ABOVE AVERAGE
Wall Height	48.00
% Comn Wall	

Building 2 : Section 1

Building Attributes : Bldg 2 of 2		
Less Depreciation:	\$2,951,300	
Replacement Cost		
Building Percent Good:	96	
Replacement Cost:	\$3,074,255	
Living Area:	6,239	
Year Built:	2010	

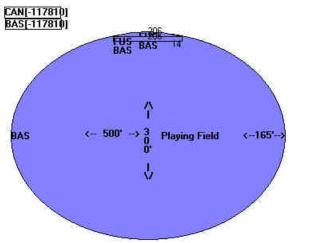
Building Attributes : Bldg 2 of 2	
Field	Description
Style:	Stadium

Building Photo



(http://images.vgsi.com/photos/NewHavenCTPhotos//\00\04\91\80.JPG)

Building Layout



(http://images.vgsi.com/photos/NewHavenCTPhotos//Sketches/23838_282

	Building Sub-Areas (sq ft)				
Code	Description	Gross Area	Living Area		
BAS	First Floor	297,689	297,689		
FUS	Finished Upper Story	4,814	4,573		
CAN	Canopy	0	0		
		302,503	302,262		

Building Photo

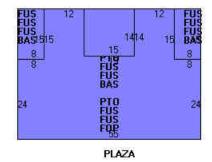
Building Photo

(http://images.vgsi.com/photos/NewHavenCTPhotos//default.jpg)

Model	Commercial
Grade	Average
Stories:	3.5
Occupancy	1.00
Exterior Wall 1	Stucco
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Custom
Interior Wall 1	Drywall/Plaste
Interior Wall 2	Minim/Masonry
Interior Floor 1	Ceram Clay Til
Interior Floor 2	Vinyl/Asphalt
Heating Fuel	Gas/Oil
Heating Type	FA/HW/ST
АС Туре	Central
Struct Class	
Bldg Use	PVT COLL MDL-96
Total Rooms	
Total Bedrms	
Total Baths	
NBHD Code	
1st Floor Use:	
Heat/AC	HEAT/AC PKGS
Frame Type	STEEL
Baths/Plumbing	ABOVE AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	ABOVE AVERAGE
Wall Height	14.00
% Comn Wall	

Building Layout

STADIUM/FIELD



(http://images.vgsi.com/photos/NewHavenCTPhotos//Sketches/23838_104

	:)	<u>Legend</u>	
Code	Description	Gross Area	Living Area
FUS	Finished Upper Story	4,530	4,304
BAS	First Floor	1,935	1,935
FOP	Open Porch	210	0
PTO	Patio	1,905	0
		8,580	6,239

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Extra Features

		Extra Features		<u>Legend</u>
Code	Description	Size	Value	Bldg #
ELV2	PASS ELEV	4.00 STOPS	\$119,000	2

Land

Land Use		Land Line Valuation	
Use Code	904L	Size (Acres)	10.4
Description	PVT COLL MDL-96	Frontage	0
Zone	RM1	Depth	0

NeighborhoodNAlt Land ApprNoCategory

Outbuildings

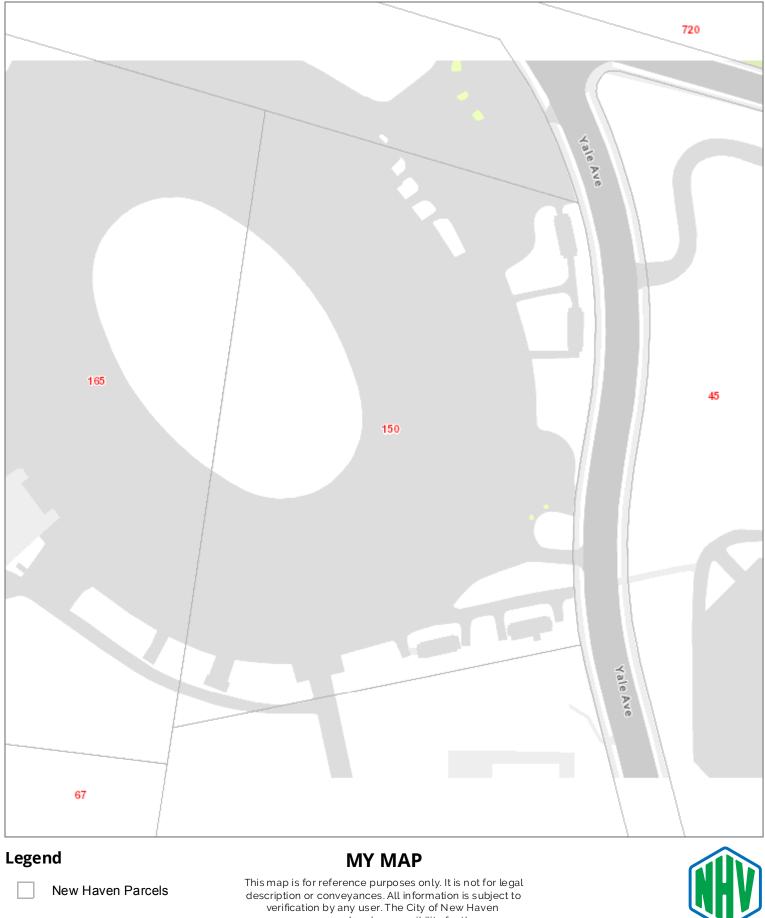
	Outbuildings					
Code	Description	Size	Value	Bldg #		
ОТН	OTHER			70000.00 S.F.	\$367,500	1
SHP2	WORK SHOP GOOD			1544.00 S.F	\$19,300	1
BHS1	OIL STGE BBL			5120.00 S.F.	\$199,700	1
FGR1	GARAGE-AVE			1200.00 S.F.	\$21,000	1
FN3	FENCE-6' CHAIN			1260.00 L.F.	\$7,900	1

Valuation History

Appraisal						
Valuation Year	Improvements	Land	Total			
2019	\$85,708,100	\$2,136,300	\$87,844,400			
2018	\$85,708,100	\$2,136,300	\$87,844,400			
2017	\$85,708,100	\$2,136,300	\$87,844,400			

Assessment					
Valuation Year	Improvements	Land	Total		
2019	\$59,995,670	\$1,495,410	\$61,491,080		
2018	\$59,995,670	\$1,495,410	\$61,491,080		
2017	\$59,995,670	\$1,495,410	\$61,491,080		

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assumes no legal responsibility for the information contained herein.

Date: 8/3/2021

From:	Carol Casanova <ccasanova@newhavenct.gov></ccasanova@newhavenct.gov>
Sent:	Monday, July 26, 2021 8:47 AM
То:	krichers@transcendwireless.com
Cc:	Aicha Woods
Subject:	RE: Original Approval for T-Mobile Facility at 150 Yale Avenue (CT11333D)

City Plan does not have requested information

Carol Casanova Executive Administrative Assistant City Plan Department 165 Church Street New Haven, CT 06510 203-946-6379 https://www.newhavenct.gov/gov/depts/planning/default.htm

From: Aicha Woods <AWoods@newhavenct.gov>
Sent: Thursday, July 22, 2021 5:30 PM
To: Carol Casanova <CCasanova@newhavenct.gov>
Subject: FW: Original Approval for T-Mobile Facility at 150 Yale Avenue (CT11333D)

Carol can you help with records request below? Thanks! Aicha

From: Kyle Richers <krichers@transcendwireless.com>
Sent: Thursday, July 22, 2021 3:04 PM
To: Aicha Woods <<u>AWoods@newhavenct.gov</u>>
Subject: RE: Original Approval for T-Mobile Facility at 150 Yale Avenue (CT11333D)

Please be cautious

This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good Afternoon,

Following up on my inquiry below. Please advise when you get a chance. Let me know if you have any questions.

Kyle Richers Transcend Wireless 10 Industrial Ave., Suite 3 Mahwah, New Jersey 07430 908-447-4716 krichers@transcendwireless.com From: Kyle Richers <<u>krichers@transcendwireless.com</u>>
Sent: Wednesday, July 21, 2021 11:16 AM
To: <u>AWoods@newhavenct.gov</u>
Subject: Original Approval for T-Mobile Facility at 150 Yale Avenue (CT11333D)

Good Morning,

I just left a voicemail with the planning office, but I figured I would send out an email as well. I am preparing a filing with the Connecticut Siting Council for a generator installation at the existing T-Mobile facility at 150 Yale Avenue (Flagpole Structure). The CSC did not originally approve this facility so I assume an approval came from the City of New Haven. This would have been around 2000/2001 when the facility was constructed. Can you check to see if there is any records on this so I can include the documentation in the filing? And if not, can you confirm via email there is no record of such approval?

Thanks,

Kyle Richers Transcend Wireless 10 Industrial Ave., Suite 3 Mahwah, New Jersey 07430 908-447-4716 krichers@transcendwireless.com

Mobile WIRELESS COMMUNICATIONS FACILITY NEW HAVEN/RT10/RT24 - GENERATOR ADD SITE ID: CT11333D 150 YALE AVENUE **NEW HAVEN, CT 06520**

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.
- 2. 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.
- 5. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND ALL INSPECTIONS REQUIRED AND SHALL ALSO PAY FEES REQUIRED FOR THE GENERAL CONSTRUCTION, PLUMBING, ELECTRICAL AND HVAC. PERMITS SHALL BE PAID FOR BY THE RESPECTIVE SUBCONTRACTORS.
- CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS AND SPECIFICATIONS ON SITE AT ALL TIMES AND INSURE DISTRIBUTION OF NEW DRAWINGS TO SUBCONTRACTORS AND OTHER RELEVANT PARTIES AS SOON AS THEY ARE MADE AVAILABLE. ALL OLD DRAWINGS SHALL BE MARKED VOID AND REMOVED FROM THE CONTRACT AREA. THE CONTRACTOR SHALL FURNISH AN 'AS-BUILT' SET OF DRAWINGS TO OWNER UPON COMPLETION OF PROJECT.
- 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.
- 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.

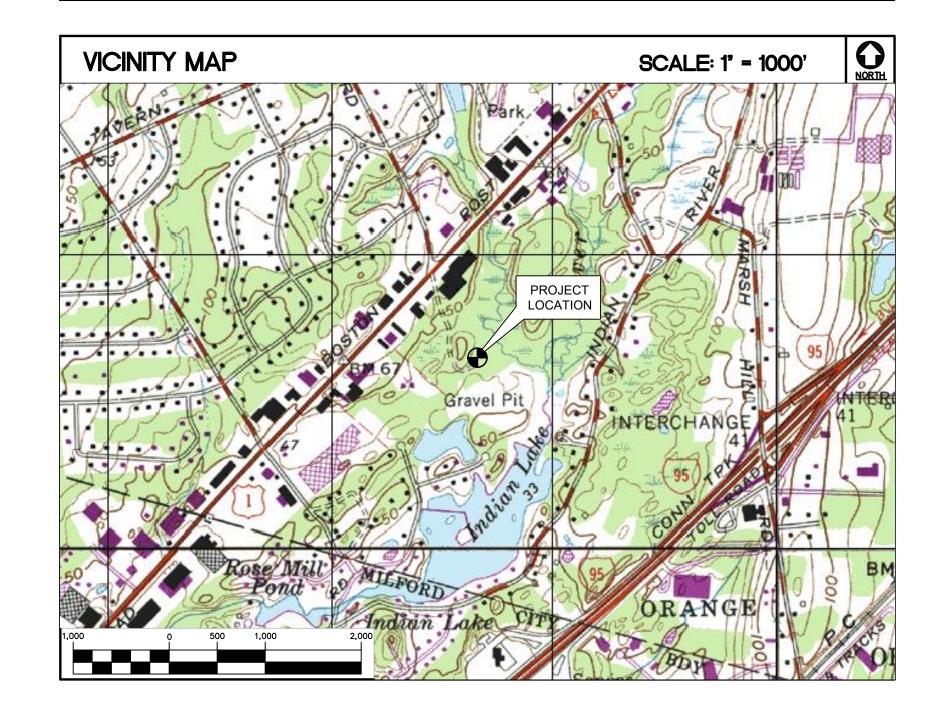
- 11. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUBCONTRACTORS FOR ANY CONDITION PER MFR.'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
- 12. ANY AND ALL ERRORS, DISCREPANCIES, AND 'MISSED" ITEMS ARE TO BE BROUGHT TO THE ATTENTION OF THE T-MOBILE CONSTRUCTION MANAGER DURING THE BIDDING PROCESS BY THE CONTRACTOR. ALL THESE ITEMS ARE TO BE INCLUDED IN THE BID. NO 'EXTRA' WILL BE ALLOWED FOR MISSED ITEMS.
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE SAFETY FROM THE TIME THE JOB IS AWARDED UNTIL ALL WORK IS COMPLETE AND ACCEPTED BY THE OWNER.
- 14. CONTRACTOR TO REVIEW ALL SHOP DRAWINGS AND SUBMIT COPY TO ENGINEER FOR APPROVAL. DRAWINGS MUST BEAR THE CHECKER'S INITIALS BEFORE SUBMITTING TO THE CONSTRUCTION MANAGER FOR 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 OWNERS ENVIRONMENTAL ENGINEER ON ALL METHODS AND PROVISIONS FOR ALL EXCAVATION ACTIVITIES INCLUDING SOIL DISPOSAL. ALL BACKFILL MATERIALS TO BE PROVIDED BY THE CONTRACTOR.

SITE DIRECTIONS

FROM: 35 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002

HEAD NORTHEAST TOWARD GRIFFIN ROAD S. TURN LEFT ON GRIFFIN RD S.

- TURN RIGHT ONTO DAY HILL RD. . USE THE RIGHT LANE TO MERGE ONTO I-91 S VIA THE RAMP TO HARTFORD.
- MERGE ONTO I-91 S.
- KEEP LEFT TO STAY ON I-91 S. KEEP RIGHT TO STAY ON I-91 S.
- 3. USE RIGHT LANE TO STAY ON I-91 S.
- 9. TAKE EXIT 1 TOWARD MLK BLVD/DOWNTOWN/NEW HAVEN.
- 10. CONTINUE ONTO OAK STREET CONNECTOR. 11. SLIGHT LEFT TO STAY ON OAK STREET CONNECTOR.
- 12. SLIGHT RIGHT TOWARD N FRONTAGE RD/M.L.K. JR. BLVD
- 13. MERGE ONTO N FRONTAGE RD/M.L.K. JR. BLVD.
- 14. USE THE RIGHT 2 LANES TO TURN RIGHT ONTO ELLA T GRASSO BLVD. 15. USE THE 2ND FROM THE LEFT LANE TO TURN LEFT ONTO CT-34 W/DERBY AVE
- 16. TURN RIGHT ONTO YALE AVE. DESTINATION WILL BE ON THE LEFT.



PROJECT SUMMARY

150 YALE AVENUE

NEW HAVEN, CT 06520

0.01 MI

0.20 MI.

3.60 MI

0.40 MI

7.30 MI

10.5 MI.

27.5 MI.

0.20 MI

0.30 MI

0.30 MI

0.10 MI

0.40 MI.

1.40 MI.

0.20 MI.

0.20 MI.

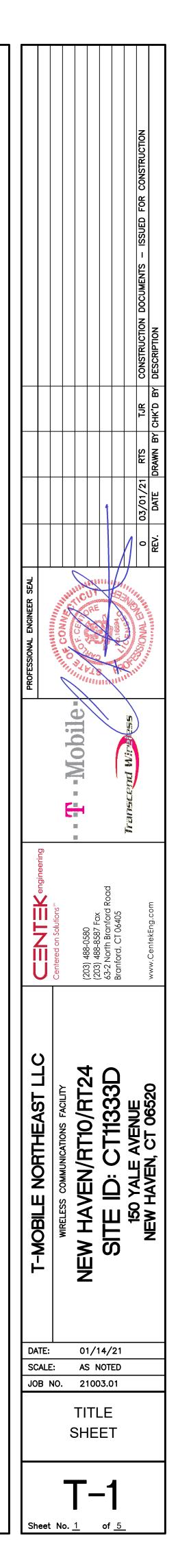
0.20 MI.

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

PROJECT INFORMATION

SITE NAME:	NEW HAVEN/RT10/RT24
SITE ID:	CT11333D
SITE ADDRESS:	150 YALE AVENUE NEW HAVEN, CT 06520
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'—20.07"N LONGITUDE: 73°—00'—39.34"W GROUND ELEVATION: 47'± AMSL
	SITE COORDINATES AND GROUND ELEVATION REFERENCED FROM GOOGLE EARTH.

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





NOTES AND SPECIFICATIONS

DESIGN BASIS:

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

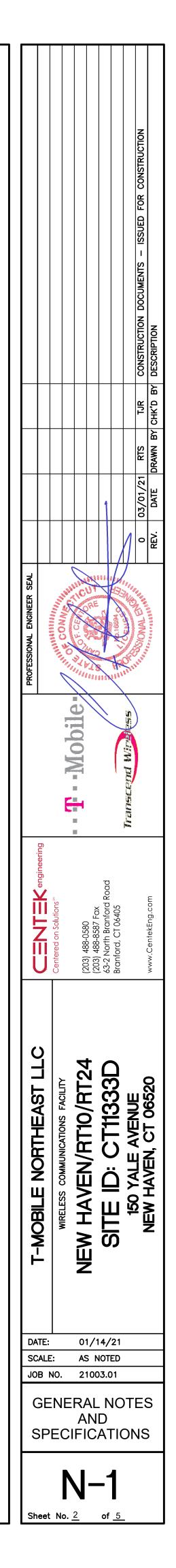
- 1. DESIGN CRITERIA:
- RISK CATEGORY II (BASED ON IBC TABLE 1604.5)
- NOMINAL DESIGN SPEED (OTHER STRUCTURE): 97 MPH (Vasd) (EXPOSURE B/ IMPORTANCE FACTOR 1.0 BASED ON ASCE 7-10).

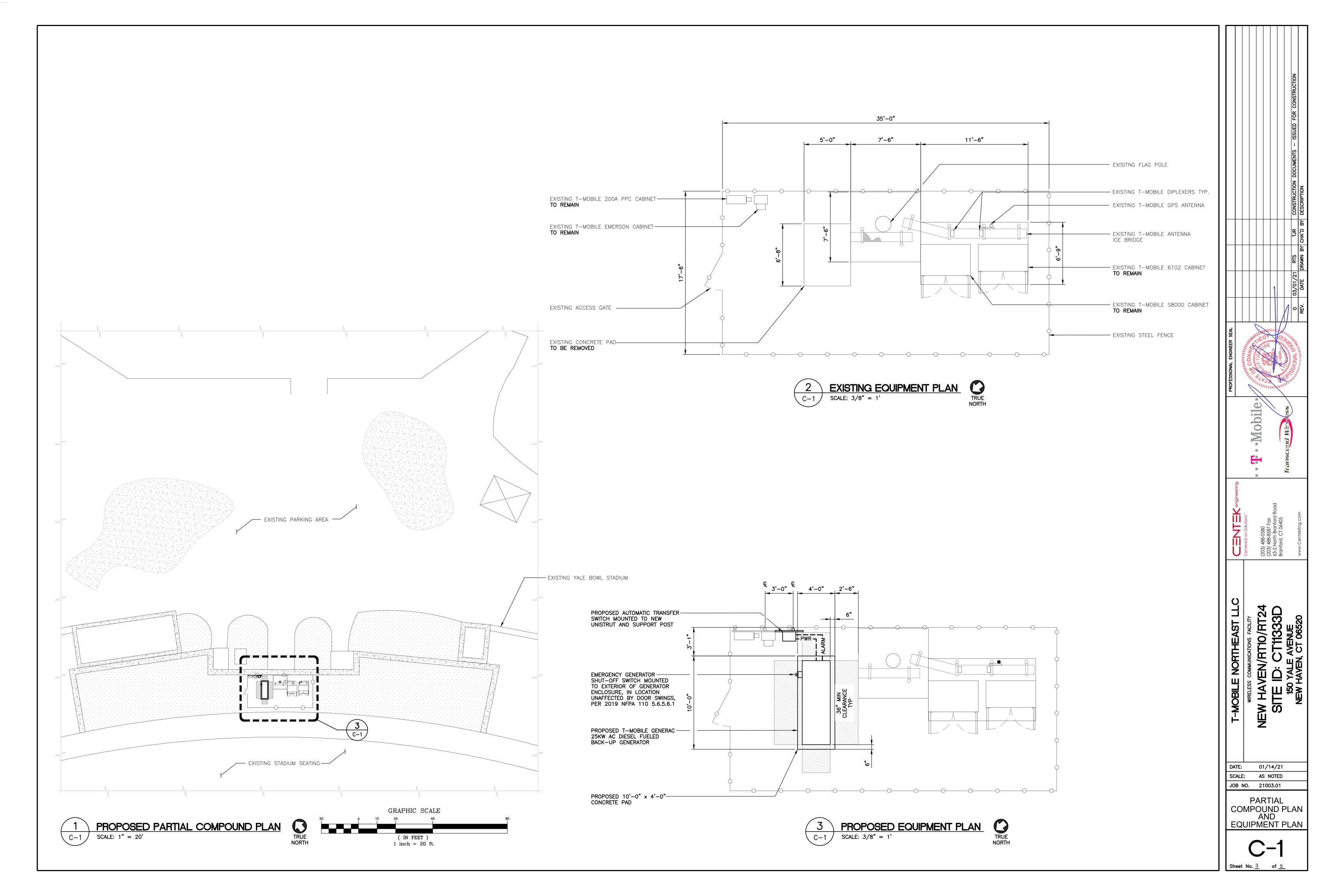
<u>SITE NOTES</u>

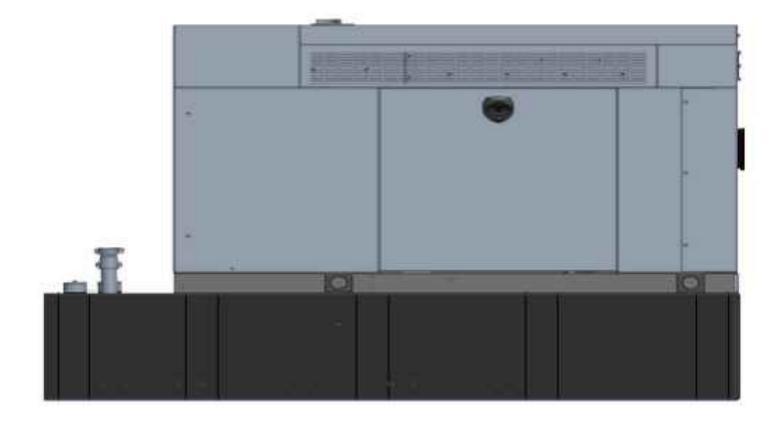
- 1. THE CONTRACTOR SHALL CALL UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- 2. ACTIVE EXISTING UTILITIES, WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY, PRIOR TO PROCEEDING, SHOULD ANY UNCOVERED EXISTING UTILITY PRECLUDE COMPLETION OF THE 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.
- 2. 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.
- 3. 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.
- 4. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB ALL IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
- 5. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND ALL INSPECTIONS REQUIRED AND SHALL ALSO PAY FEES REQUIRED FOR THE GENERAL CONSTRUCTION, PLUMBING, ELECTRICAL AND HVAC. PERMITS SHALL BE PAID FOR BY THE RESPECTIVE SUBCONTRACTORS.
- 6. CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS AND SPECIFICATIONS ON SITE AT ALL TIMES AND INSURE DISTRIBUTION OF NEW DRAWINGS TO SUBCONTRACTORS AND OTHER RELEVANT PARTIES AS SOON AS THEY ARE MADE AVAILABLE. ALL OLD DRAWINGS SHALL BE MARKED VOID AND REMOVED FROM THE CONTRACT AREA. THE CONTRACTOR SHALL FURNISH AN 'AS-BUILT' SET OF DRAWINGS TO OWNER UPON COMPLETION OF PROJECT.
- 7. LOCATION OF EQUIPMENT AND WORK SUPPLIED BY OTHERS THAT IS DIAGRAMMATICALLY INDICATED ON THE DRAWINGS, SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE LOCATIONS AND DIMENSIONS SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF THE SUBCONTRACTORS.
- 8. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURES AND IT'S COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY.
- 9. DRAWINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANDARD TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COSTS.
- 10. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
- 11. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUBCONTRACTORS FOR ANY CONDITION PER MFR.'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
- 12. ANY AND ALL ERRORS, DISCREPANCIES, AND "MISSED" ITEMS, ARE TO BE BROUGHT TO THE ATTENTION OF THE SITE OWNER'S CONSTRUCTION MANAGER DURING THE BIDDING PROCESS BY THE CONTRACTOR. ALL THESE ITEMS ARE TO BE INCLUDED IN THE BID. NO 'EXTRA' WILL BE ALLOWED FOR MISSED ITEMS.
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE SAFETY FROM THE TIME THE JOB IS AWARDED UNTIL ALL WORK IS COMPLETE AND ACCEPTED BY THE OWNER.
- 14. CONTRACTOR TO REVIEW ALL SHOP DRAWINGS AND SUBMIT COPY TO ENGINEER FOR APPROVAL. DRAWINGS MUST BEAR THE CHECKER'S INITIALS BEFORE SUBMITTING TO THE CONSTRUCTION MANAGER FOR REVIEW.
- 15. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES, AND EXISTING CONDITIONS AT THE SITE, PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA.
- 16. COORDINATION, LAYOUT, FURNISHING AND INSTALLATION OF CONDUIT AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 17. ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LIABLE FOR ALL REPAIRS REQUIRED FOR EXISTING STRUCTURES IF DAMAGED DURING CONSTRUCTION ACTIVITIES.
- 18. THE CONTRACTOR SHALL CONTACT 'CALL BEFORE YOU DIG' AT LEAST 48 HOURS PRIOR TO ANY EXCAVATIONS AT 1-800-922-4455. ALL UTILITIES SHALL BE IDENTIFIED AND CLEARLY MARKED. CONTRACTOR SHALL MAINTAIN AND PROTECT MARKED UTILITIES THROUGHOUT PROJECT COMPLETION.
- 18. 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.
- 19. 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.
- 20. 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.

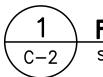






BACKUP POWER GENERATOR						
EQUIPMENT	POWER GENERATED	FUEL	MODEL NUMBER	FUEL TANK SIZE (GAL)	DIMENSIONS	WEIGHT
MAKE: GENERAC MODEL: RD025 25 KW, AC DIESEL 7192-0 240 103.4"L x 35.0"W x 91.7"H 2123					2123 LBS.	
<u>NOTES:</u> 1. FUEL LEVEL/SECONDARY CONTAINMENT SHALL BE ALARMED AND IN COMMUNICATION WITH T-MOBILE'S NOC.						

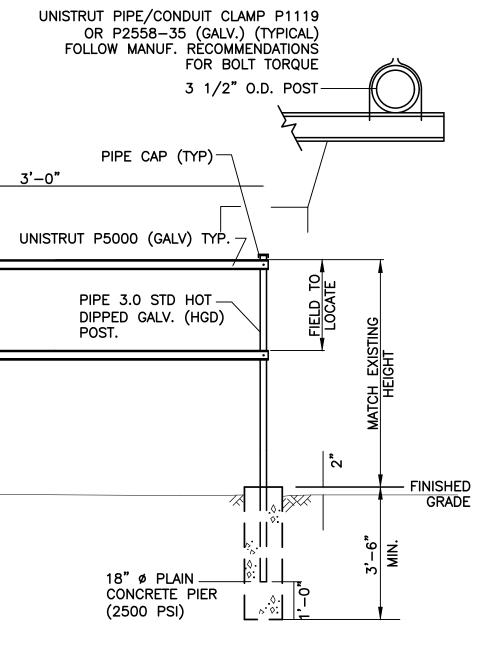
2. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION AND ALL OPTIONAL FEATURES WITH T-MOBILE'S CONSTRUCTION MANAGER PRIOR TO ORDERING.



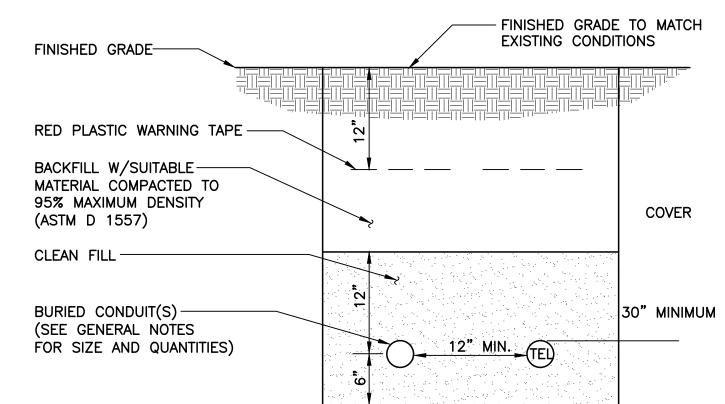
EXISTING UTILITY ------FRAME POST. FIELD TO LOCATE XXXX A 10.4 $\frac{3}{C-2}$ NOT TO SCALE

PROPOSED GENERATOR DETAIL

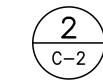
SCALE: NOT TO SCALE



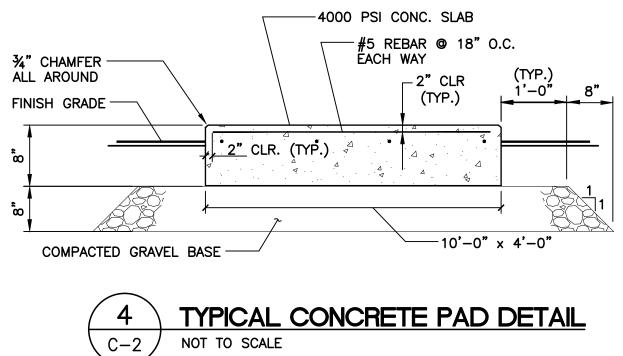
UTILITY SUPPORT FRAME (TYP)



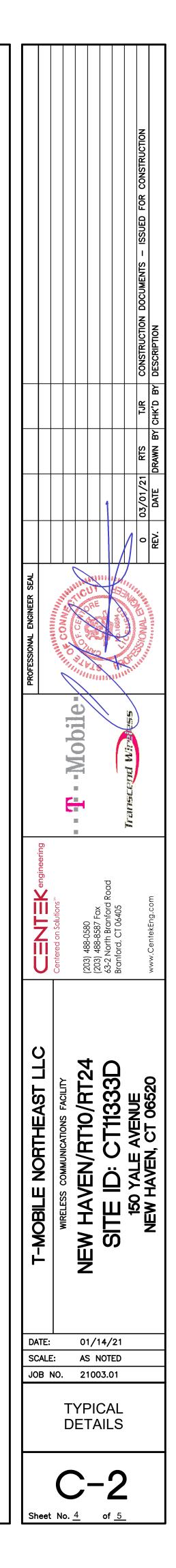
NOTES: 1. THE CLEAN FILL SHALL PASS THROUGH A 3/8" MESH SCREEN AND SHALL NOT CONTAIN SHARP STONES. OTHER BACKFILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION. 2. WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR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



SCALE: NOT TO SCALE



TYPICAL ELECTRICAL/TEL TRENCH DETAIL

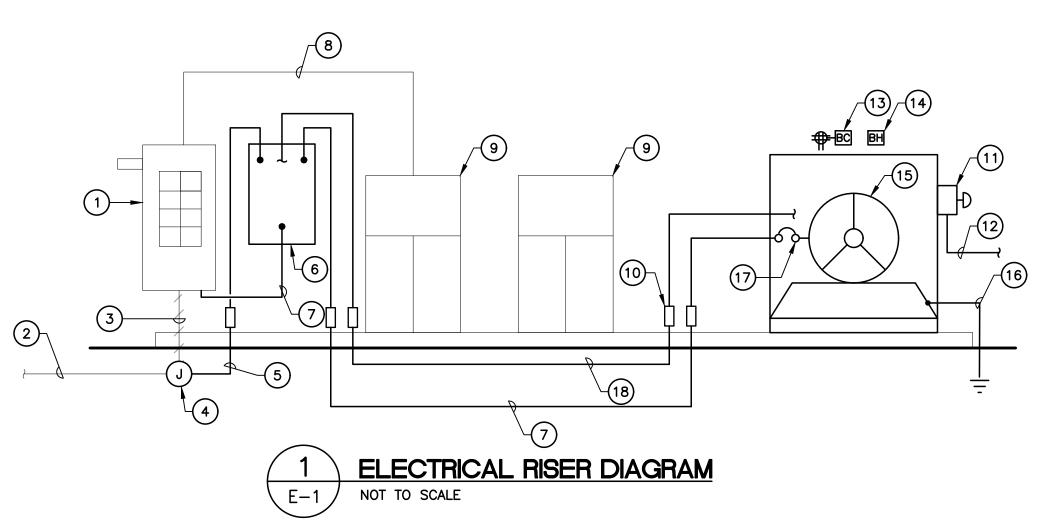


RISER DIAGRAM NOTES

- (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.

RISER DIAGRAM NOTES

- 1 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.
- (15) EMERGENCY BACK UP GENERATOR.
- (17) GENERATOR OUTPUT CIRCUIT BREAKER.
- (18) 1" CONDUIT FOR GENERATOR CONTROL AND SIGNAL WIRING.

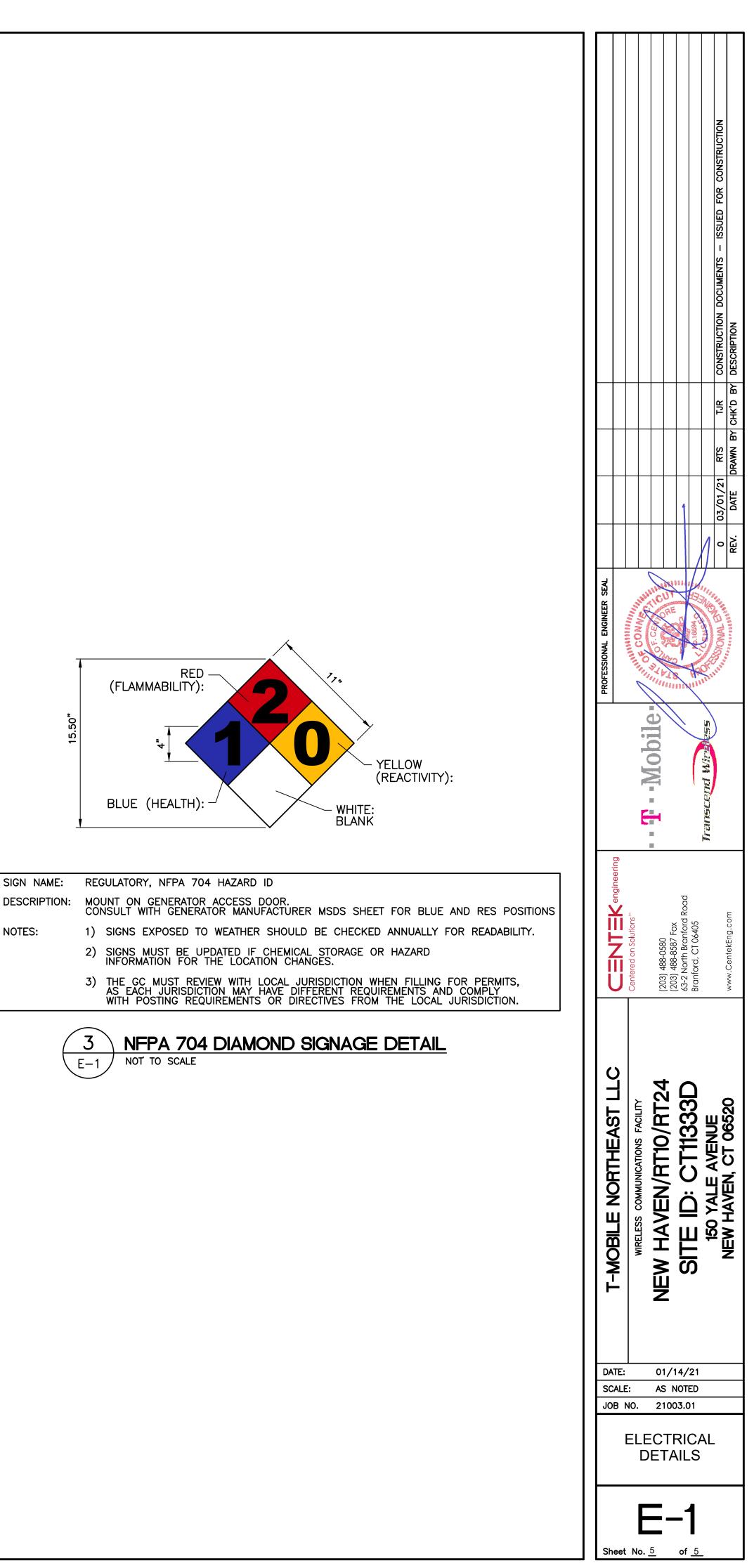


- (16) GENERATOR GROUNDING PER NEC AND MANUFACTURER'S REQUIREMENTS. BOND TO EXISTING GROUNDING SYSTEM. (MINIMUM OF (1) #2 AWG GROUND)



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

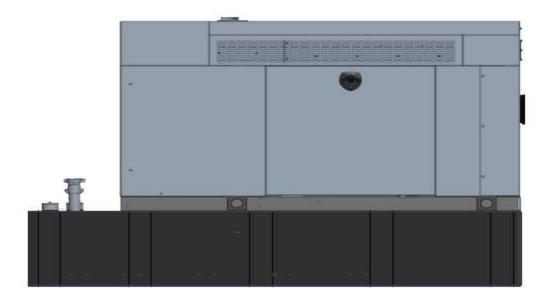






Generac RD025 Design Document

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



The following are responsible for this project document:

Kevin Smith

SR. Engineer (770) 256-3594

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

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1 Introduction / Project Summary

1.1 Purpose of Project

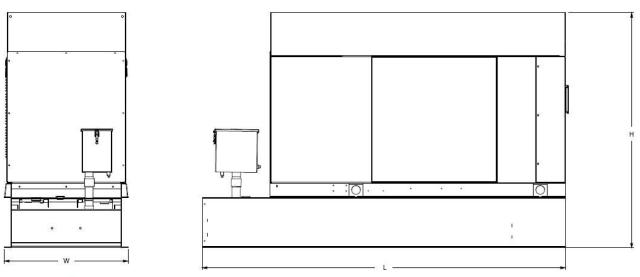
T-Mobile's nationwide cell site hardening plan is providing a refuellable backup power system capable of powering a site for a minimum of 48 hours before refueling is required. The purpose of this project is to give T-Mobile customers reliable service during power outages and provide a sufficient layer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

1.2 Feature Description

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

1.3 Dimensions

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



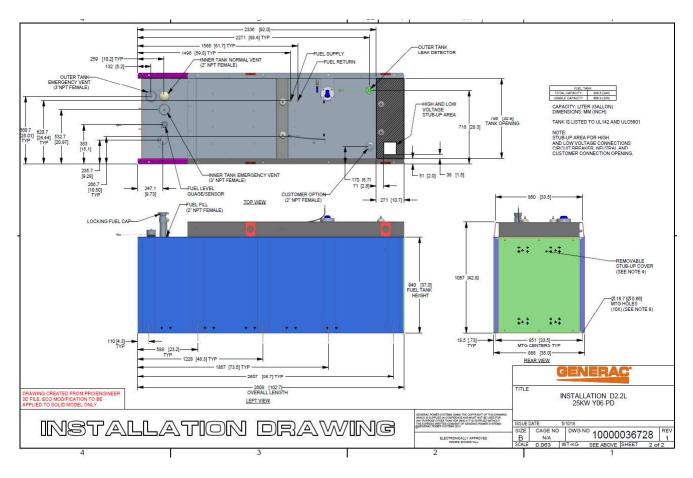
Weights and Dimensions

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

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2 Fuel Tanks

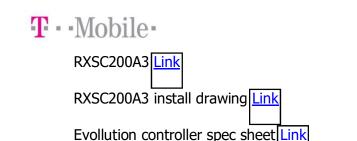
The RD025 has a 102.7" 240 Gallon Double-Wall UL142 Base tank to provide 98 hours of backup power at full load deployed on site. Below is the Install drawing for the 240-gallon tank for the RD025kW.



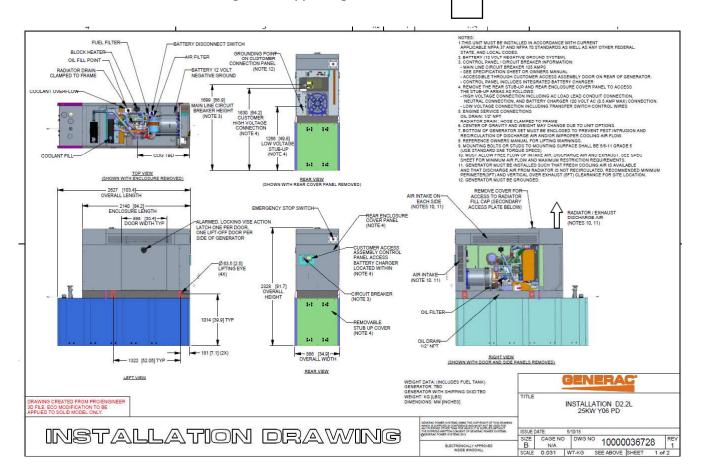
3 RXSC200A3 ATS/ Controller

3.1 Hardware

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



RD025 installation drawings and supporting documentation Link



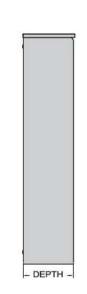
3.2 RXSC200A3 Automatic Transfer Switch

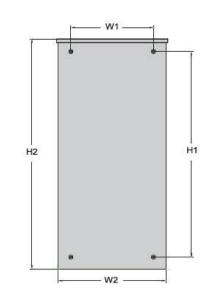
The RXSC200A3 (Automatic Transfer Switch) is equiped with the following functions. Utility voltage drop-out <65%. Timer to Generator start: 10 second factory set, adjustable between 2-1500 seconds. Engine Warm up delay: 5 seconds. Standby Voltage Sensor: 65% for 5 seconds. Utility Voltage Pickup >80%.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

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RXSC200A3 Dimensions

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







4 Architecture/Alarms

4.1 Interfaces and Alarming

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

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

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

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

Auxiliary Contact

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

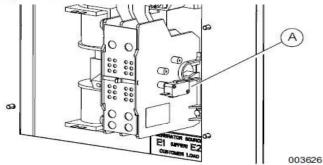


Figure 3-4. Auxiliary Contact

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

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

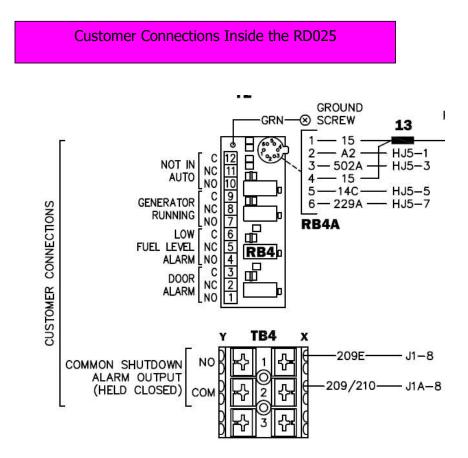
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Equipment damage. Exceeding rated voltage and current will damage the auxiliary contacts. Verify that voltage and current are within specification before energizing this equipment. (000134a)

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



Ericsson UTOVP- ALM8EXP



UTOVP-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

OVERVOLTAGE ARRESTER/OVP-ALM 8	1
CABLE WITH CONNECTOR/SIGNAL CABLE	2

1



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

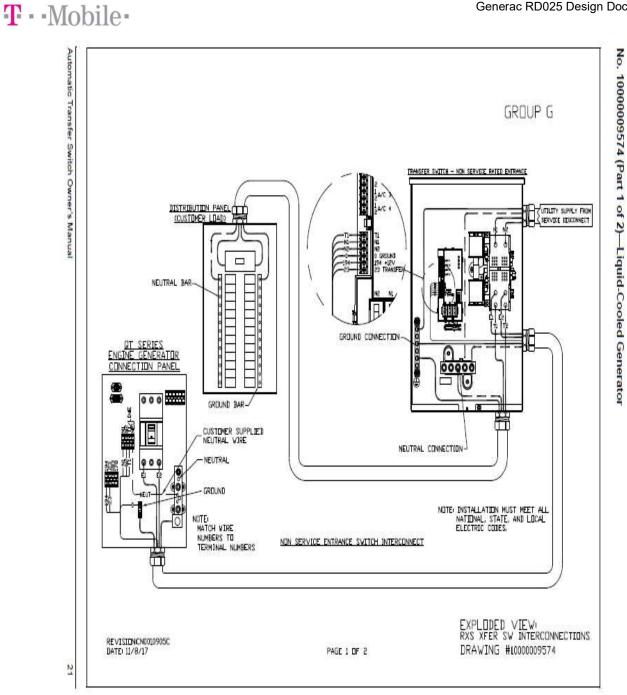
Level 2 Acoustic Enclosure provides a noise level of 67.5dBA. It is EPA certified and meets NFPA 99 and 110 requirements(NFPA National Fire Protection Association). The RD025 generator engines is a tier 4 engine and meets the EPA final standards.

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.



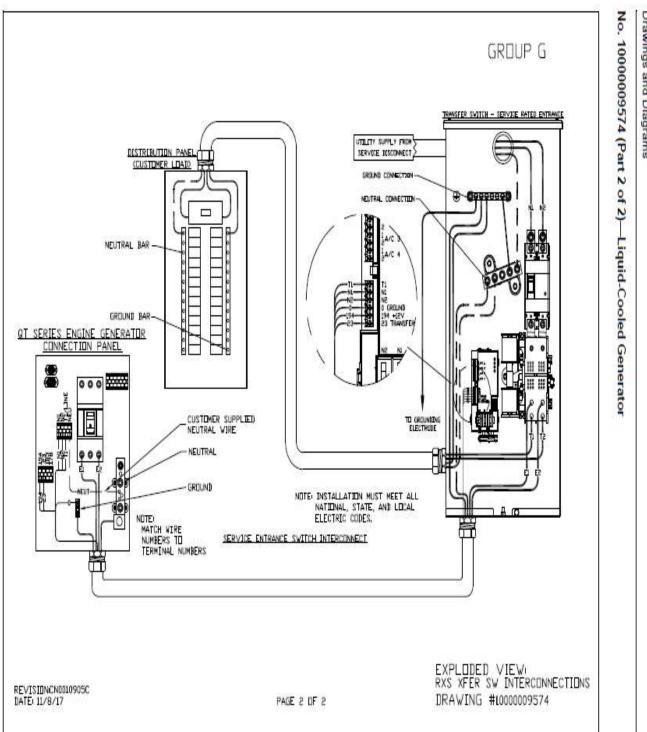
Commercial Power Connection Points On The RXSC200A3



Interconnection Drawings

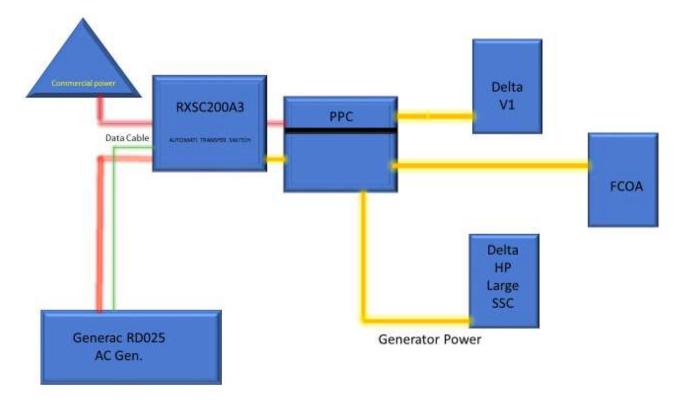
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Generac RD025 Design Document



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Compound Diagram:



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7 Maintenance

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

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

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

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

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