



June 5, 2024

Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051
Attn: Melanie Bachman, Executive Director

Re: New Cingular Wireless PCS, LLC (“AT&T”) and the Town of Farmington
Site Name: Farmington Westerberg Drive / FA#10090928
For collocation at the existing wireless telecommunications facility located at
1 Westerberg Drive, Farmington, CT 06032

Dear Ms. Bachman,

AT&T is seeking to modify the existing wireless site at the above-referenced address. We are submitting this application as an eligible facilities request under Section 6409, referenced below. Please find enclosed the following documents in support of our applications to obtain the permits required:

1. Exempt Modification Package
2. Exempt Modification Incompletion Letter
3. Construction Drawings
4. Structural Assessment

Section 6409 of the Federal Middle Class Tax Relief and Job Creation Act (“Section 6409”) was adopted in 2012. Under Section 6409, your city retains discretionary zoning review over the construction of new towers, but simple collocations and/or equipment upgrades at existing telecommunications facilities must be approved. The new law provides that:

“**a State or local government** may not deny, and **shall approve**, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station.”
(Emphasis added.)

The federal law defines an “eligible facilities request” as “(A) **collocation of new transmission equipment**; (B) **removal of transmission equipment**; or (C) **replacement of transmission equipment**.” (Emphasis added.)

Also, the Federal Communications Commission issued a Wireless Infrastructure Report and Order on October 17, 2014 (“FCC Order”) which established regulations that clarify and streamline the municipal approval process for eligible facilities requests under Section 6409. A copy of the FCC Order is enclosed herewith.



The FCC Order clarifies that municipal review of an eligible facilities request is limited to determining whether the request falls within Section 6409:

“a State or local government may require the applicant to provide documentation or information **only to the extent reasonably related to determining whether the request meets the requirements of this section** [Section 6409]. A State or local government **may not require an applicant to submit any other documentation**, including but not limited to documentation intended to illustrate the need for such wireless facilities or to justify the business decision to modify such wireless facilities.”⁴⁷ C.F.R. 1.40001(c)(1) (Emphasis added).

AT&T’s Application is an Eligible Facilities Request under Section 6409

AT&T’s application qualifies as an eligible facilities request under Section 6409 because the proposed installation involves “a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station.”

As shown on the plans prepared by Ramaker dated 2/21/2024, AT&T’s proposed installation consist principally of the following elements: The compound expansion of roughly an irregular 11’ x 13’ space (approximately 143 sf) for the installation of the proposed 20kW Generator located on a raised platform.

Accordingly, AT&T’s installation involves **“addition of transmission equipment” that will not increase the height of the tower nor the dimensions of the equipment compound**. As a result, the installation “does not substantially change the physical dimensions of such tower or base station.” Therefore, these proposed equipment upgrades constitute an “eligible facilities request” under Section 6409 and must be approved.

Timeline for Review and Approval.

We would like to highlight an important timing requirement for processing these applications. The FCC Order determined that **a municipality must act on an eligible facilities request within sixty (60) days of receiving the application**. 47 C.F.R. 1.40001(c)(2) (Emphasis added). (Note, the sixty (60)-day period is also known as the “Shot Clock”). Thus, the city must approve this application within sixty (60) days of its receipt. The FCC Order provides that upon a municipality’s failure to act prior to expiration of the Shot Clock, the **“request shall be deemed granted”** and AT&T will be legally entitled to proceed with construction. 47 C.F.R. 1.40001(c)(4) (Emphasis added).

Note that the FCC Order does allow the Shot Clock to be tolled if an application is incomplete. However, in order to do so, a municipality must provide written notice that the application is incomplete within thirty (30) days of the submittal. 47 C.F.R. 1.40001(c)(3)(i). The notice must “clearly and specifically” describe the missing documents or information, 47 C.F.R. 1.40001(c)(3)(i), and, as previously mentioned, such documentation must be necessary to the determination of whether the application qualifies as an eligible facilities request. If the municipality requests additional information after the first thirty (30) days have passed, we will still provide any “reasonably related” information allowed under the FCC Order, but the Shot Clock will not be tolled.



In light of the foregoing, AT&T respectfully requests that its proposed wireless site modification be approved pursuant to Section 6409.

If the Connecticut Siting Council believes that AT&T's applications do not qualify as an eligible facilities request under Section 6409, please let me know immediately. Otherwise, if you have any questions, please feel free to call or email me. Thank you for your cooperation.

Sincerely,

Catherine Conklin

Catherine Conklin
Site Acquisition Specialist

M 301-266-0258
Catherine.Conklin@gdit.com
4603 Kemper Street
Rockville, MD 20853
www.gdit.com

CC:

Joe Capodiferro, Town Council Chairman
Kathleen A. Blonski, Town Manager
Shannon Rutherford, Town Planner
Arnold Russell, Town of Farmington Treatment Plant/Water Pollution Control, Property Owner
David Landry, AT&T Mobility
Rachelle M. Lewis, AT&T Mobility



February 14, 2024

General Dynamics Wireless Services
993 Mansell Road, Suite D
Roswell, GA 30076

SUBJECT: STRUCTURAL ASSESSMENT

CARRIER: AT&T MOBILITY

SITE: FARMINGTON WESTERBERG DRIVE (10090928)
1 WESTERBERG DRIVE
FARMINGTON, HARTFORD COUNTY, CONNECTICUT, 06032
RAMAKER & ASSOCIATES PROJECT NUMBER: 57094

RESULTS: EQUIPMENT PLATFORM: PASS 16.5%
FOUNDATION: PASS 22.6%

Dear General Dynamics Wireless Services:

Ramaker & Associates, Inc. (RAMAKER) respectfully submits this structural assessment for the above-mentioned site. The purpose of this report is to determine the structural integrity of the structure(s) with the proposed loading configurations. Engineering recommendations regarding the analysis results are provided in the following pages.

RAMAKER developed a finite element model of the platform using RISA analysis software. All information contained herein is valid only for the described structure configuration and loading conditions. RAMAKER reserves the right to modify our recommendations should alterations to the structure(s) loading occur.

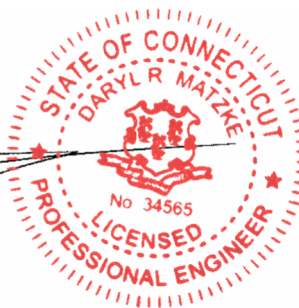
If you have any questions or comments, please do not hesitate to contact our office.

Sincerely,

RAMAKER & ASSOCIATES, INC.

Thomas E Moore
 Thomas E. Moore
 Project Engineer

Daryl R. Matzke
 Daryl R. Matzke, P.E.
 Supervising Engineer



ANALYSIS CRITERIA

State Building Code	2022 Connecticut State Building Code
Adopted Building Code	2021 IBC
Referenced Standard	TIA-222-H
Risk Category	II
Ultimate Design Wind Speed, V_{ult}	120 mph (3 sec. gust)
Exposure Category	C
Topographic Feature	None

SUPPORTING DOCUMENTATION

- Geotechnical report by RAMAKER, job number 57094, dated March 16, 2023
- Construction drawings by RAMAKER, project number 57094
- Other pertinent data procured or assumed by RAMAKER during site due diligence activities

RESULTS AND RECOMMENDATIONS

The maximum equipment platform stress capacities under the loading conditions previously described are as follows:

Component Type	Percent Capacity	Pass/Fail
Platform Beam	16.5	Pass
Lateral brace	2.3	Pass
RATING	16.5	PASS

The proposed equipment loading configuration includes the installation of one (1) Generac SD020 20 kW generator (2821 lbs) on the proposed equipment platform. By engineering calculation and inspection, the proposed equipment platform is capable of supporting the proposed equipment without causing an overstress condition in the steel equipment platform. See associated RAMAKER construction drawings for proposed equipment platform details.

FOUNDATION RESULTS

The maximum foundation stress capacities are as follows:

Component Type	Percent Capacity	Pass/Fail
Caisson - Soil Interaction	22.6	Pass
Caisson - Structural	4.7	Pass
RATING	22.6	PASS

The foundation was analyzed utilizing the foundation drawings and geotechnical report referenced above. Results of the analysis show that the foundations will be stressed to a maximum of 22.6 percent of capacity. Therefore, the foundations will pass the TIA-222-H analysis requirements under proposed loading conditions.

ASSUMPTIONS

This analysis is based on the theoretical design capacity of the members and is not a condition assessment of the structure. This analysis is based on the information supplied and the results are only as accurate as the data obtained from this information. The Scope of Work for RAMAKER did not require verification of the provided information. The following assumptions were made for this structural analysis.

- 1) The mounts were built and maintained in accordance with the manufacturer's drawings and specifications and including the TIA Standards.
- 2) All structural members are in good condition and can achieve their full design capacity. All welds and connections can develop the full member capacity unless determined otherwise and explicitly stated in this report.
- 3) No physical deterioration has occurred in any of the structural components. No allowance was made for any damaged, missing, or rusted members, nor loose bolts or cracked welds.
- 4) All prior structural modifications, if any, are assumed to be properly installed and fully effective.
- 5) Information provided by the client regarding the structure, appurtenances, transmission cables, and other relevant information is assumed to be current and correct. Appurtenance sizes and weights as specified in the loading tables are best estimates and based on available information, if explicit documentation is not provided to RAMAKER. If the loading configuration is different than stated, then this analysis is invalid.
- 6) Mount steel grades meet the values as stated, unless noted otherwise:
 - Channel, Solid Round, Angle, Plate ASTM A36 (GR 36)
 - Wide Flange ASTM A992 (GR 50)
 - HSS (Rectangular) ASTM A36 (GR 36)
 - Pipe ASTM A53 (GR 35)
 - Unistrut ASTM A653 SS (GR 33)
 - Threaded Rod ASTM F1554 (GR 36)
 - Connection Bolt ASTM A325

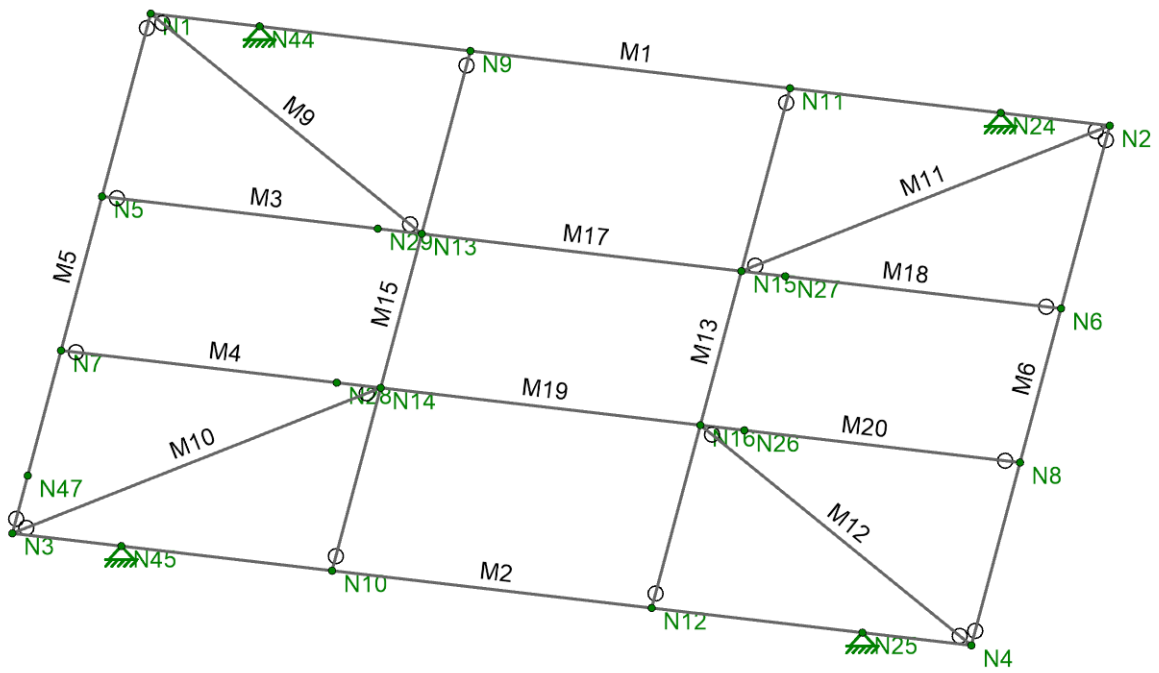
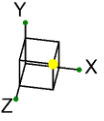
This analysis may be affected if any assumptions are not valid or have been made in error. RAMAKER should be notified to determine the effect on the structural integrity of the mount.

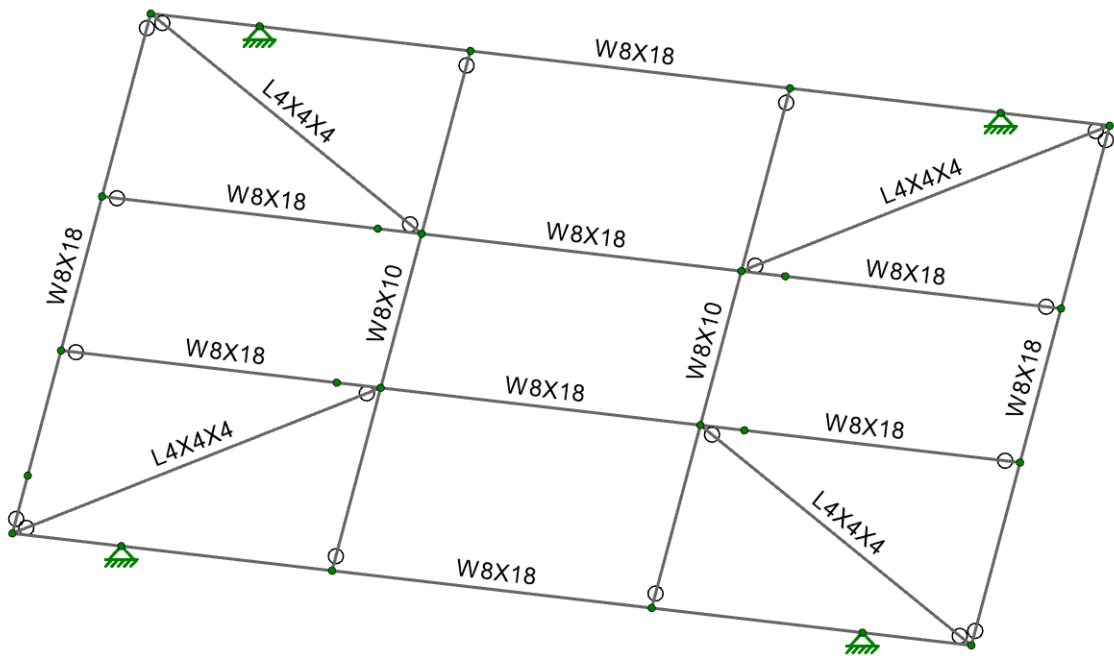
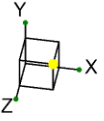
SCOPE AND LIMITATIONS

The engineering services performed by RAMAKER regarding this report are limited to an analysis of the mount and the capacity of its members. RAMAKER will accept no liability which may arise due to any existing deficiency in design, material, fabrication, erection, construction, or lack of maintenance. RAMAKER makes no warranties, expressed or implied in connection with this report and disclaims any liability arising from original design, material, fabrication and erection deficiencies or the "as-built" condition of this structure.

ATTACHMENTS

- Analysis Figures
- Analysis Calculations





Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e ⁵ F ⁻¹]	Density [k/ft ³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5	A500 Gr.B RECT	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A500 Gr.C RND	29000	11154	0.3	0.65	0.527	46	1.4	62	1.3
7	A500 Gr.C RECT	29000	11154	0.3	0.65	0.527	50	1.4	62	1.3
8	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
9	A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3
10	A913 Gr.65	29000	11154	0.3	0.65	0.49	65	1.1	80	1.1

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in ²]	Iyy [in ⁴]	Izz [in ⁴]	J [in ⁴]
1	W8X18	W8X18	Beam	Wide Flange	A992	Typical	5.26	7.97	61.9	0.172
2	L4x4x1/4	L4X4X4	HBrace	Single Angle	A36 Gr.36	Typical	1.93	3	3	0.044
3	C8x11.5	C8X11.5	Beam	Channel	A36 Gr.36	Typical	3.37	1.31	32.5	0.13
4	W8x10	W8X10	Beam	Wide Flange	A992	Typical	2.96	2.09	30.8	0.043

Member Primary Data

	Label	I Node	J Node	Section/Shape	Type	Design List	Material	Design Rule
1	M1	N1	N2	W8X18	Beam	Wide Flange	A992	Typical
2	M2	N3	N4	W8X18	Beam	Wide Flange	A992	Typical
3	M3	N5	N13	W8X18	Beam	Wide Flange	A992	Typical
4	M4	N7	N14	W8X18	Beam	Wide Flange	A992	Typical
5	M5	N1	N3	W8X18	Beam	Wide Flange	A992	Typical
6	M6	N2	N4	W8X18	Beam	Wide Flange	A992	Typical
7	M9	N1	N13	L4x4x1/4	HBrace	Single Angle	A36 Gr.36	Typical
8	M10	N3	N14	L4x4x1/4	HBrace	Single Angle	A36 Gr.36	Typical
9	M11	N2	N15	L4x4x1/4	HBrace	Single Angle	A36 Gr.36	Typical
10	M12	N4	N16	L4x4x1/4	HBrace	Single Angle	A36 Gr.36	Typical
11	M13	N11	N12	W8x10	Beam	Wide Flange	A992	Typical
12	M15	N9	N10	W8x10	Beam	Wide Flange	A992	Typical
13	M17	N13	N15	W8X18	Beam	Wide Flange	A992	Typical
14	M18	N15	N6	W8X18	Beam	Wide Flange	A992	Typical
15	M19	N14	N16	W8X18	Beam	Wide Flange	A992	Typical
16	M20	N16	N8	W8X18	Beam	Wide Flange	A992	Typical

Basic Load Cases

	BLC Description	Category	Y Gravity	Nodal	Point	Distributed	Area(Member)
1	DL Self-Weight	DL	-1				
2	DL Equipment	DL		1			1
3	DL Grating	DL					1
4	DL Railing	DL			1	4	
5	WLz	WLZ		1		8	
6	WLx	WLX		5		2	
7	LL	LL			1		4
8	BLC 2 Transient Area Loads	None				14	
9	BLC 3 Transient Area Loads	None				8	
10	BLC 7 Transient Area Loads	None				12	

Load Combinations

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	DL	Yes	Y	DL	1						
2	LL Service	Yes	Y	LL	1						
3	DL + LL Service	Yes	Y	DL	1	LL	1				
4	1.4DL	Yes	Y	DL	1.4						
5	1.2DL + 0.5LL	Yes	Y	DL	1.2	LL	0.5				
6	1.2DL	Yes	Y	DL	1.2						
7	1.2DL + 1.6LL	Yes	Y	DL	1.2	LL	1.6				
8	1.2DL + 1.6LL + 0.5WLX	Yes	Y	DL	1.2	LL	1.6	WLX	0.5		
9	1.2DL + 1.6LL + 0.5WLZ	Yes	Y	DL	1.2	LL	1.6			WLZ	0.5
10	1.2DL + 1.6LL - 0.5WLX	Yes	Y	DL	1.2	LL	1.6	WLX	-0.5		
11	1.2DL + 1.6LL - 0.5WLZ	Yes	Y	DL	1.2	LL	1.6			WLZ	-0.5
12	1.2DL + 1.6LL + 0.375WLX + 0.375WLZ	Yes	Y	DL	1.2	LL	1.6	WLX	0.375	WLZ	0.375
13	1.2DL + 1.6LL + 0.375WLX - 0.375WLZ	Yes	Y	DL	1.2	LL	1.6	WLX	0.375	WLZ	-0.375
14	1.2DL + 1.6LL - 0.375WLX + 0.375WLZ	Yes	Y	DL	1.2	LL	1.6	WLX	-0.375	WLZ	0.375
15	1.2DL + 1.6LL - 0.375WLX - 0.375WLZ	Yes	Y	DL	1.2	LL	1.6	WLX	-0.375	WLZ	-0.375
16	1.2DL + 0.5WLX	Yes	Y	DL	1.2			WLX	0.5		
17	1.2DL + 0.5WLZ	Yes	Y	DL	1.2					WLZ	0.5
18	1.2DL - 0.5WLX	Yes	Y	DL	1.2			WLX	-0.5		
19	1.2DL - 0.5WLZ	Yes	Y	DL	1.2					WLZ	-0.5
20	1.2DL + 0.375WLX + 0.375WLZ	Yes	Y	DL	1.2			WLX	0.375	WLZ	0.375
21	1.2DL + 0.375WLX - 0.375WLZ	Yes	Y	DL	1.2			WLX	0.375	WLZ	-0.375
22	1.2DL - 0.375WLX + 0.375WLZ	Yes	Y	DL	1.2			WLX	-0.375	WLZ	0.375
23	1.2DL - 0.375WLX - 0.375WLZ	Yes	Y	DL	1.2			WLX	-0.375	WLZ	-0.375
24	1.2DL + 0.5LL + 1.0WLX	Yes	Y	DL	1.2	LL	0.5	WLX	1		
25	1.2DL + 0.5LL + 1.0WLZ	Yes	Y	DL	1.2	LL	0.5			WLZ	1
26	1.2DL + 0.5LL - 1.0WLX	Yes	Y	DL	1.2	LL	0.5	WLX	-1		
27	1.2DL + 0.5LL - 1.0WLZ	Yes	Y	DL	1.2	LL	0.5			WLZ	-1
28	1.2DL + 0.5LL + 0.75WLX + 0.75WLZ	Yes	Y	DL	1.2	LL	0.5	WLX	0.75	WLZ	0.75
29	1.2DL + 0.5LL + 0.75WLX - 0.75WLZ	Yes	Y	DL	1.2	LL	0.5	WLX	0.75	WLZ	-0.75
30	1.2DL + 0.5LL - 0.75WLX + 0.75WLZ	Yes	Y	DL	1.2	LL	0.5	WLX	-0.75	WLZ	0.75
31	1.2DL + 0.5LL - 0.75WLX - 0.75WLZ	Yes	Y	DL	1.2	LL	0.5	WLX	-0.75	WLZ	-0.75
32	1.2DL + 1.0WLX	Yes	Y	DL	1.2			WLX	1		
33	1.2DL + 1.0WLZ	Yes	Y	DL	1.2					WLZ	1
34	1.2DL - 1.0WLX	Yes	Y	DL	1.2			WLX	-1		
35	1.2DL - 1.0WLZ	Yes	Y	DL	1.2					WLZ	-1
36	1.2DL + 0.75WLX + 0.75WLZ	Yes	Y	DL	1.2			WLX	0.75	WLZ	0.75
37	1.2DL + 0.75WLX - 0.75WLZ	Yes	Y	DL	1.2			WLX	0.75	WLZ	-0.75
38	1.2DL - 0.75WLX + 0.75WLZ	Yes	Y	DL	1.2			WLX	-0.75	WLZ	0.75
39	1.2DL - 0.75WLX - 0.75WLZ	Yes	Y	DL	1.2			WLX	-0.75	WLZ	-0.75
40	0.9DL + 1.0WLX	Yes	Y	DL	0.9			WLX	1		
41	0.9DL + 1.0WLZ	Yes	Y	DL	0.9					WLZ	1
42	0.9DL - 1.0WLX	Yes	Y	DL	0.9			WLX	-1		
43	0.9DL - 1.0WLZ	Yes	Y	DL	0.9					WLZ	-1
44	0.9DL + 0.75WLX + 0.75WLZ	Yes	Y	DL	0.9			WLX	0.75	WLZ	0.75
45	0.9DL + 0.75WLX - 0.75WLZ	Yes	Y	DL	0.9			WLX	0.75	WLZ	-0.75
46	0.9DL - 0.75WLX + 0.75WLZ	Yes	Y	DL	0.9			WLX	-0.75	WLZ	0.75
47	0.9DL - 0.75WLX - 0.75WLZ	Yes	Y	DL	0.9			WLX	-0.75	WLZ	-0.75

Envelope Node Reactions

Node Label	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC		
0	N44	max	488.926	47	4074.221	12	631.72	43	0	47	0	47	0	47
1		min	-488.864	44	1347.495	47	-631.597	25	0	1	0	1	0	1
2	N45	max	682.352	46	4039.003	13	638.246	43	0	47	0	47	0	47
3		min	-682.285	29	1298	2	-638.37	25	0	1	0	1	0	1



Company : Ramaker & Associates, Inc.
 Designer : TEM
 Job Number : 57094
 Model Name : Farmington Westerberg Drive

2/14/2024
 10:49:03 AM
 Checked By : _____

Envelope Node Reactions (Continued)

Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC	
4	N24	max	520.68	46	4038	14	540.071	43	0	47	0	47	0	47
5		min	-520.729	29	1320.299	45	-539.961	25	0	1	0	1	0	1
6	N25	max	548.981	47	3749.221	15	539.544	43	0	47	0	47	0	47
7		min	-549.035	28	1253.69	44	-539.655	25	0	1	0	1	0	1
8	Totals:	max	1806.2	42	15898.917	11	2349.582	43						
9		min	-1806.2	24	5393.788	42	-2349.582	25						

Envelope AISC 15TH (360-16): LRFD Member Steel Code Checks

Member	Shape	Code Check	Loc [ft]	LC	Shear Check	Loc [ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [lb-ft]	phi*Mn z-z [lb-ft]	Cb	Eqn	
0	M1	W8X18	0.06	5.5	11	0.04	1.26	y	13	102103.661	236700	17475	63750	1.518	H1-1b
1	M2	W8X18	0.05	1.26	27	0.036	1.26	y	8	102103.661	236700	17475	63750	1.725	H1-1b
2	M3	W8X18	0.048	3.667	13	0.025	0	y	15	194253.389	236700	17475	61185.679	1	H1-1b
3	M4	W8X18	0.045	3.667	13	0.025	0	y	14	194253.389	236700	17475	61185.679	1	H1-1b
4	M5	W8X18	0.083	5.813	8	0.031	9	y	12	134820.009	236700	17475	59636.121	1.155	H1-1b
5	M6	W8X18	0.08	3.188	14	0.027	0	y	11	134820.009	236700	17475	59935.516	1.161	H1-1b
6	M9	L4X4X4	0.022	2.422	39	0.001	4.845	y	4	43685.712	62532	3137.597	6114.409	1.136	H2-1
7	M10	L4X4X4	0.022	2.422	38	0.001	4.845	y	4	43685.713	62532	3137.597	6114.409	1.136	H2-1
8	M11	L4X4X4	0.023	2.422	37	0.001	4.845	y	4	43685.712	62532	3137.597	6114.409	1.136	H2-1
9	M12	L4X4X4	0.023	2.422	28	0.001	4.845	y	4	43685.712	62532	3137.597	6114.409	1.136	H2-1
10	M13	W8X10	0.165	5.813	13	0.028	9	y	9	40479.825	133200	6119.448	21938.257	1.163	H1-1b
11	M15	W8X10	0.165	5.813	15	0.029	9	y	9	40479.825	133200	6119.448	22008.206	1.166	H1-1b
12	M17	W8X18	0.066	1.833	11	0.019	3.667	y	10	194253.389	236700	17475	61185.679	1	H1-1b
13	M18	W8X18	0.048	0	15	0.025	3.667	y	13	194253.389	236700	17475	61185.679	1	H1-1b
14	M19	W8X18	0.062	1.833	9	0.019	0	y	8	194253.389	236700	17475	61185.679	1	H1-1b
15	M20	W8X18	0.045	0	15	0.025	3.667	y	8	194253.389	236700	17475	61185.679	1	H1-1b

Wind Load on Antennas TIA-222-H

$$q_z = 0.00256 K_z K_{zt} K_s K_e K_d V^2$$

$$F = q_z G_h C_a A_a$$

Ground Elevation : 160 ft Annex S: N
 $K_{es} (F_w)$: 1.00
 $K_{es} (t_i)$: 1.00

Risk Category : II	Risk Categorization of Structures (Table 2-1)	Ka: 0.9
Exposure : C	Exposure Category	
V : 120 mph	Basic Wind Speed (Annex B)	
z : 15 ft	Height above ground level to the center of the antenna	
K_z : 0.85	Velocity Pressure Coefficient (2.6.5.2)	
K_{zt} : 1.00	Topographic Factor (2.6.6.4)	
K_s : 1.00	Rooftop Wind Speed-up Factor (2.6.7)	
K_e : 0.99	Ground Elevation Factor (Table 2-6)	
K_d : 0.95	Wind Direction Probability Factor (Table 2-2)	
q_z : 29.6 psf	Velocity Pressure at Height z	
G_h : 1.00	Strength Design of Appurtenances and their Connections	

Mount & Antenna Wind Loads

Appurtenance	Height <i>in</i>	Width <i>in</i>	h/D	Shape	C_a	A_a <i>sq ft</i>	Force <i>lb</i>	Force <i>plf</i>
Generac SD020 Generator	99.1	56.0	1.8	Flat	1.200	38.54	1368.7	165.7
W8X18 x 11 ft	132.0	8.1	16.2	Flat	1.707	7.46	377.0	34.3
W8X18 x 9 ft	108.0	8.1	13.3	Flat	1.609	6.11	290.7	32.3
Generac TAS200 Automatic Transfer Sv	48.0	12.0	4.0	Flat	1.267	4.00	150.0	
Generac TAS200 Camlock	24.3	9.4	2.6	Flat	1.204	1.58	56.4	
P30 (30x1) x 9 ft	108.0	30.0	3.6	Round	0.524	22.50	349.2	

Wind Load on Antennas TIA-222-H

$$q_z = 0.00256 K_z K_{zt} K_s K_e K_d V^2$$

$$F = q_z G_h C_a A_a$$

Ground Elevation : 160 ft

Annex S: N

$K_{es} (F_w)$: 1.00

$K_{es} (t_i)$: 1.00

Risk Category : II

Risk Categorization of Structures (Table 2-1)

Exposure : C

Exposure Category

V : 120 mph

Basic Wind Speed (Annex B)

Ka: 0.9

z : 15 ft

Height above ground level to the center of the antenna

K_z : 0.85

Velocity Pressure Coefficient (2.6.5.2)

K_{zt} : 1.00

Topographic Factor (2.6.6.4)

K_s : 1.00

Rooftop Wind Speed-up Factor (2.6.7)

K_e : 0.99

Ground Elevation Factor (Table 2-6)

K_d : 0.95

Wind Direction Probability Factor (Table 2-2)

q_z : 29.6 psf

Velocity Pressure at Height z

G_h : 1.00

Strength Design of Appurtenances and their Connections

Mount & Antenna Wind Loads

Appurtenance	Height <i>in</i>	Depth <i>in</i>	h/D	Shape	C_a	A_a <i>sq ft</i>	Force <i>lb</i>	Force <i>plf</i>
Generac SD020 Generator	99.1	34.5	2.9	Flat	1.217	23.74	854.9	297.3
W8X18 x 11 ft	132.0	5.3	25.1	Flat	2.000	4.81	284.9	25.9
W8X18 x 9 ft	108.0	5.3	20.6	Flat	1.852	3.94	215.9	24.0
Generac TAS200 Automatic Transfer Sv	48.0	24.0	2.0	Flat	1.200	8.00	284.1	
Generac TAS200 Camlock	24.3	9.0	2.7	Flat	1.209	1.52	54.2	
P30 (30x1) x 9 ft	108.0	30.0	3.6	Round	0.524	22.50	349.2	

Drilled Pier Foundation

Project #: 57094
 Site Name: Farmington Westerberg Driv

Report File: _____

TIA-222 Revision: H
 Tower Type: Monopole

Applied Loads		
	Comp.	Uplift
Moment (kip-ft)		
Axial Force (kips)	4.0742	
Shear Force (kips)	0.6897	

Material Properties		
Concrete Strength, f _c :	4	ksi
Rebar Strength, F _y :	60	ksi
Tie Yield Strength, F _y :	60	ksi

Pier Design Data		
Depth	9	ft
Ext. Above Grade	11	ft
Pier Section 1		
<i>From 11' above grade to 9' below grade</i>		
Pier Diameter	2.5	ft
Rebar Quantity	8	
Rebar Size	6	
Clear Cover to Ties	3	in
Tie Size	4	
Tie Spacing	12	in

[Rebar & Pier Options](#)

[Embedded Pole Inputs](#)

[Belled Pier Inputs](#)

Analysis Results		
Soil Lateral Check		
	Compression	Uplift
D _{ve0} (ft from TOC)	15.06	-
Soil Safety Factor	24.84	-
Max Moment (kip-ft)	10.20	-
Rating*	5.1%	-
Soil Vertical Check		
	Compression	Uplift
Skin Friction (kips)	39.76	-
End Bearing (kips)	44.27	-
Weight of Concrete (kips)	15.83	-
Total Capacity (kips)	84.03	-
Axial (kips)	19.91	-
Rating*	22.6%	-
Reinforced Concrete Flexure		
	Compression	Uplift
Critical Depth (ft from TOC)	15.08	-
Critical Moment (kip-ft)	10.19	-
Critical Moment Capacity	205.68	-
Rating*	4.7%	-
Reinforced Concrete Shear		
	Compression	Uplift
Critical Depth (ft from TOC)	16.31	-
Critical Shear (kip)	5.55	-
Critical Shear Capacity	138.11	-
Rating*	3.8%	-

Structural Foundation Rating*	4.7%
Soil Interaction Rating*	22.6%

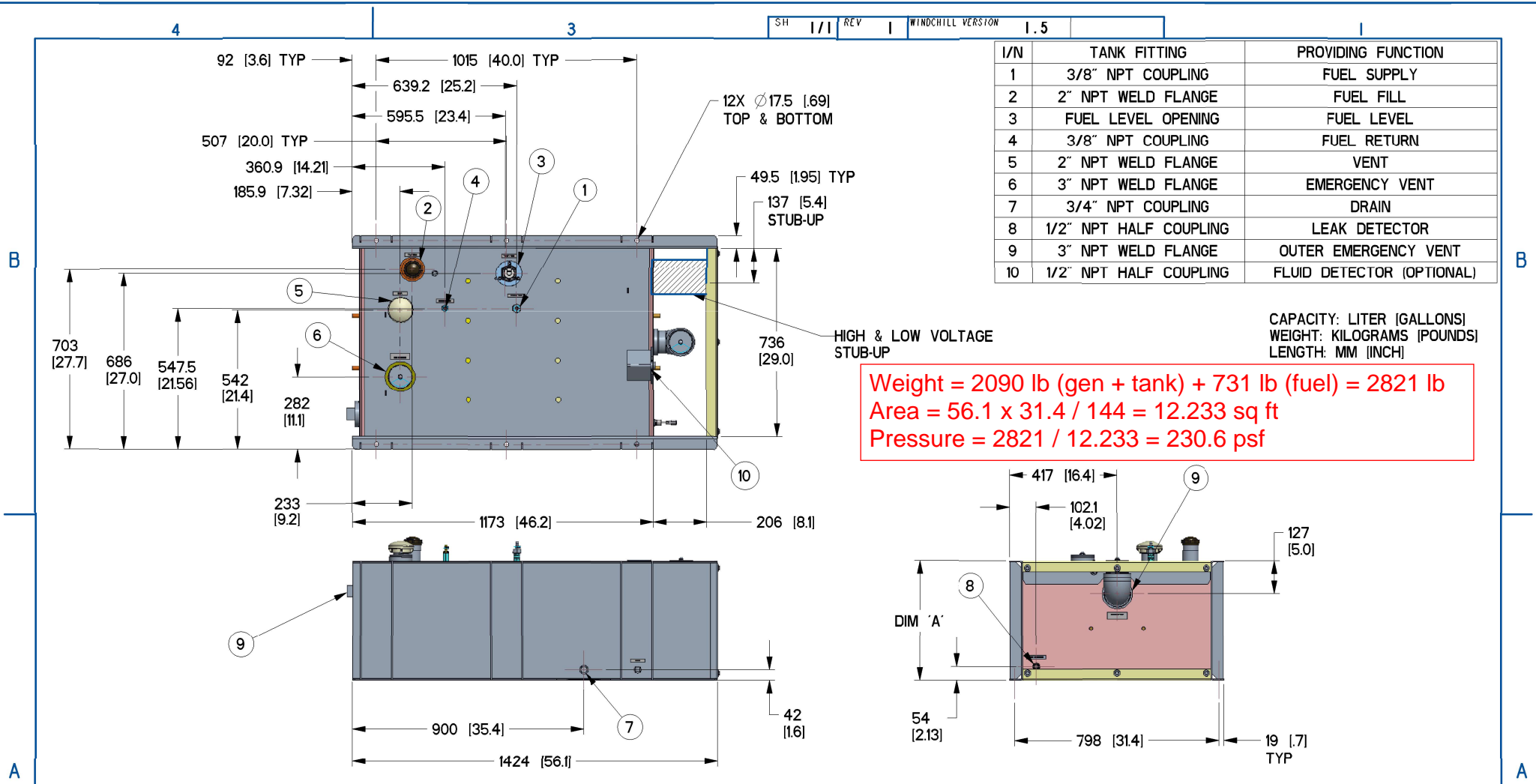
*Rating per TIA-222-H Section 15.5

Check Limitation	
Apply TIA-222-H Section 15.5:	<input checked="" type="checkbox"/>
N/A	<input type="checkbox"/>
Additional Longitudinal Rebar	
Input Effective Depths (else Actual):	<input type="checkbox"/>
Shear Design Options	
Check Shear along Depth of Pier:	<input checked="" type="checkbox"/>
Utilize Shear-Friction Methodology:	<input type="checkbox"/>
Override Critical Depth:	<input type="checkbox"/>

[Go to Soil Calculations](#)

Soil Profile													
Groundwater Depth	4			# of Layers	6								

Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ _{soil} (pcf)	γ _{concrete} (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Net Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	0.5	0.5	112	150			0.000	0.000					Cohesionless
2	0.5	2	1.5	115	150			0.000	0.000					Cohesionless
3	2	3.5	1.5	117	150			0.000	0.000					Cohesionless
4	3.5	4	0.5	117	150	1.1		0.605	0.605	0.700	0.700			Cohesive
5	4	6	2	73	87.6	5.5		2.475	2.475	2.000	2.000			Cohesive
6	6	9	3	72	87.6		36	0.000	0.000	0.800	0.600	11.200		Cohesionless



I/N	TANK FITTING	PROVIDING FUNCTION
1	3/8" NPT COUPLING	FUEL SUPPLY
2	2" NPT WELD FLANGE	FUEL FILL
3	FUEL LEVEL OPENING	FUEL LEVEL
4	3/8" NPT COUPLING	FUEL RETURN
5	2" NPT WELD FLANGE	VENT
6	3" NPT WELD FLANGE	EMERGENCY VENT
7	3/4" NPT COUPLING	DRAIN
8	1/2" NPT HALF COUPLING	LEAK DETECTOR
9	3" NPT WELD FLANGE	OUTER EMERGENCY VENT
10	1/2" NPT HALF COUPLING	FLUID DETECTOR (OPTIONAL)

CAPACITY: LITER [GALLONS]
 WEIGHT: KILOGRAMS [POUNDS]
 LENGTH: MM [INCH]

Weight = 2090 lb (gen + tank) + 731 lb (fuel) = 2821 lb
Area = 56.1 x 31.4 / 144 = 12.233 sq ft
Pressure = 2821 / 12.233 = 230.6 psf

TANK P/N	A0001273353	A0001273985
DIM 'A'	466 [18.4]	766 [30.2]
TOTAL CAPACITY	56 GAL	105 GAL
USABLE CAPACITY	51 GAL	103 GAL
DRY WEIGHT	449 LB / 204 KG	625 LB / 283 KG

DIMENSIONS ARE IN MILLIMETERS [INCHES]

GENERAC

TITLE
 INSTALL COMPACT BASETANKS D2.2L

ISSUE DATE:

SIZE	CAGE NO	DWG NO	REV
B	N/A	A0001367037	I
SCALE	0.070	WT-KG	SHEET 1 of 1

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

INSTALLATION DRAWING

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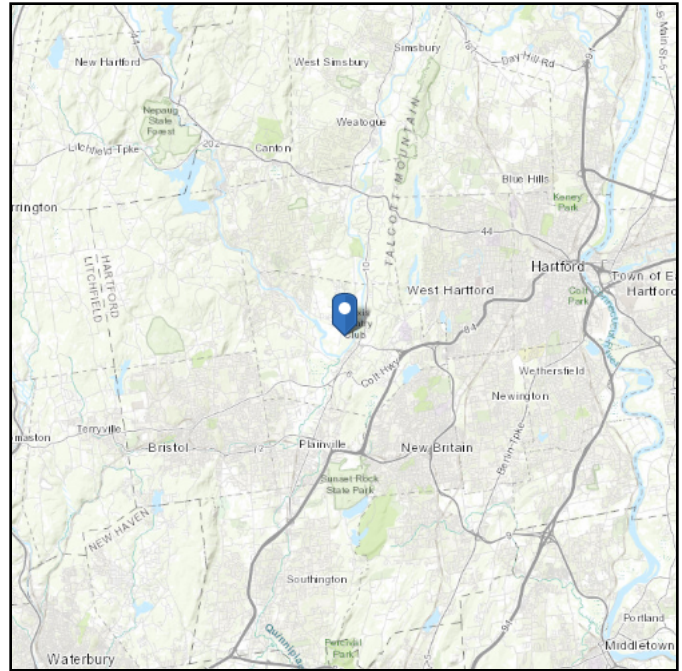
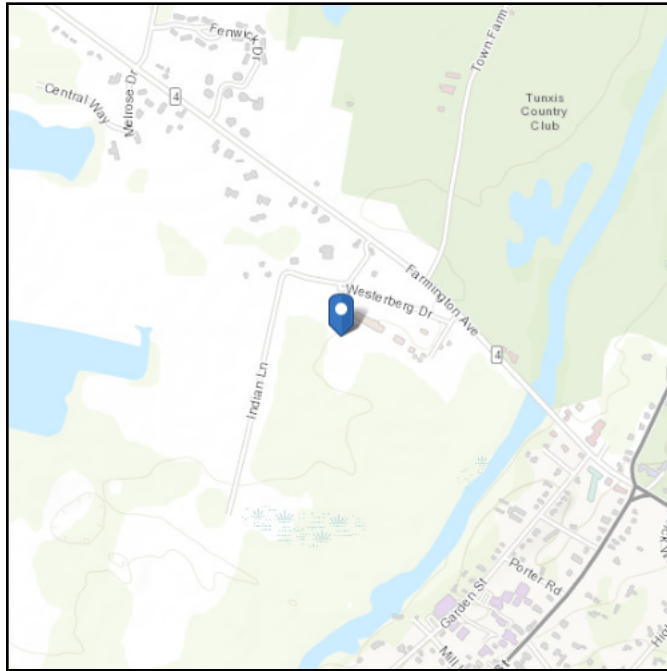
ELECTRONICALLY APPROVED
 INSIDE WINDCHILL

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Default (see Section 11.4.3)

Latitude: 41.730484
Longitude: -72.835488
Elevation: 159.72 ft (NAVD 88)



Wind

Results:

Wind Speed	117 Vmph 120 mph, per 2022 Connecticut State Building Code - Appendix P
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	97 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Fri Feb 24 2023

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

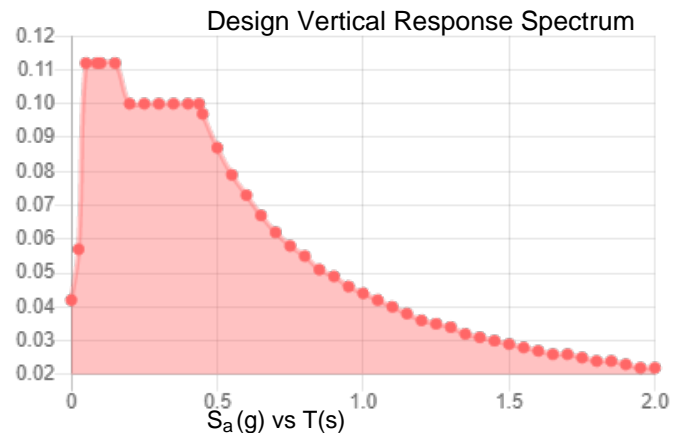
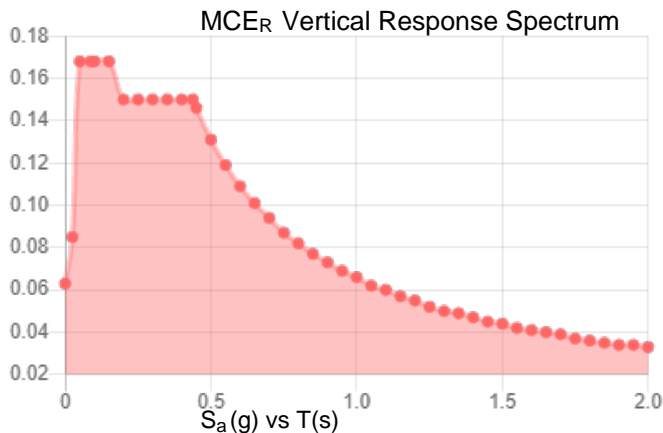
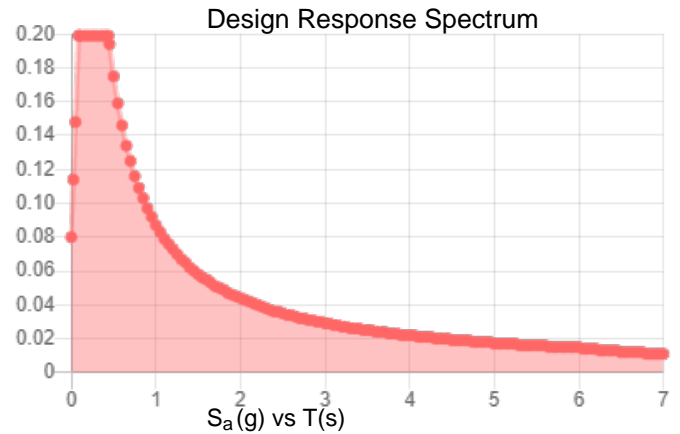
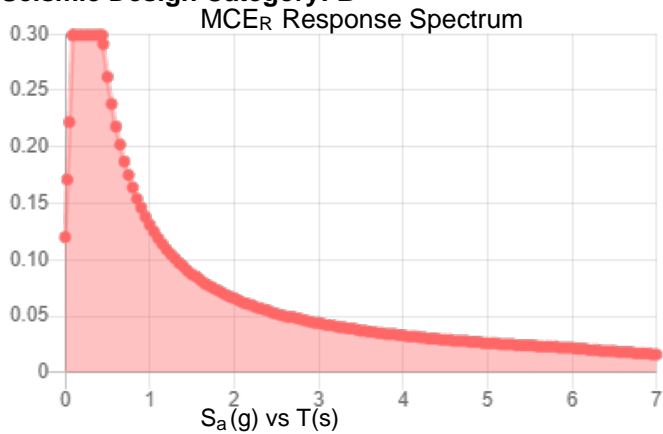
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class:

Results:

S_s :	0.187	S_{D1} :	0.087
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.101
F_v :	2.4	PGA _M :	0.161
S_{MS} :	0.299	F_{PGA} :	1.598
S_{M1} :	0.131	I_e :	1
S_{DS} :	0.199	C_v :	0.7

Seismic Design Category: B



Data Accessed:

Fri Feb 24 2023

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness: 1.50 in.
Concurrent Temperature: 15 F
Gust Speed 50 mph

Data Source: Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

Date Accessed: Fri Feb 24 2023

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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Municipality	Basic Design Wind Speeds, V (mph)				Allowable Stress Design Wind Speeds, V_{asd} (mph)				Ground Snow Load p_g (psf)	MCE Ground Accelerations		Wind-Borne Debris Region ¹		Hurricane- Prone Region
	Risk Cat. I	Risk Cat. II	Risk Cat. III	Risk Cat. IV	Risk Cat. I	Risk Cat. II	Risk Cat. III	Risk Cat. IV		S_s (g)	S_I (g)	Risk Cat. III Occup. I-2	Risk Cat. IV	
Cornwall	105	115	125	130	81	89	97	101	40	0.172	0.054			
Coventry	110	120	130	135	85	93	101	105	30	0.188	0.055			Yes
Cromwell	110	120	130	135	85	93	101	105	30	0.207	0.056			Yes
Danbury	110	120	125	130	85	93	97	101	30	0.225	0.056			Yes
Darien	110	120	130	135	85	93	101	105	30	0.250	0.057		Type B	Yes
Deep River	115	125	135	140	89	97	105	108	30	0.210	0.054			Yes
Derby	110	120	130	135	85	93	101	105	30	0.202	0.054			Yes
Durham	110	120	130	135	85	93	101	105	30	0.211	0.055			Yes
East Granby	110	120	125	130	85	93	97	101	35	0.173	0.054			Yes
East Haddam	115	125	135	135	89	97	105	105	30	0.214	0.056			Yes
East Hampton	110	125	130	135	85	97	101	105	30	0.210	0.056			Yes
East Hartford	110	120	130	135	85	93	101	105	30	0.191	0.055			Yes
East Haven	110	125	135	135	85	97	105	105	30	0.200	0.053	Type B	Type B	Yes
East Lyme	120	130	135	140	93	101	105	108	30	0.198	0.053	Type B	Type B	Yes
East Windsor	110	120	130	135	85	93	101	105	30	0.177	0.055			Yes
Eastford	110	120	130	135	85	93	101	105	40	0.180	0.055			Yes
Easton	110	120	130	135	85	93	101	105	30	0.218	0.055			Yes
Ellington	110	120	130	135	85	93	101	105	35	0.178	0.055			Yes
Enfield	110	120	125	130	85	93	97	101	35	0.172	0.055			Yes
Essex	115	125	135	140	89	97	105	108	30	0.207	0.054			Yes
Fairfield	110	120	130	135	85	93	101	105	30	0.219	0.055		Type B	Yes
Farmington	110	120	130	135	85	93	101	105	35	0.188	0.055			Yes
Franklin	115	125	135	140	89	97	105	108	30	0.195	0.054			Yes
Glastonbury	110	120	130	135	85	93	101	105	30	0.200	0.055			Yes
Goshen	110	115	125	130	85	89	97	101	40	0.172	0.054			
Granby	110	120	125	130	85	93	97	101	35	0.171	0.054			Yes
Greenwich	110	120	130	135	85	93	101	105	30	0.274	0.059		Type B	Yes
Griswold	120	125	135	140	93	97	105	108	30	0.189	0.054			Yes
Groton	120	130	140	140	93	101	108	108	30	0.190	0.052	Type B	Type A	Yes
Guilford	115	125	135	140	89	97	105	108	30	0.204	0.054	Type B	Type B	Yes
Haddam	115	125	135	135	89	97	105	105	30	0.214	0.055			Yes
Hamden	110	120	130	135	85	93	101	105	30	0.202	0.054			Yes



at&t Mobility

SITE NAME: FARMINGTON WESTERBERG DRIVE
FA LOCATION CODE: 10090928

GENERATOR PROJECT
20KW GENERAC DIESEL GENERATOR
200A GENERAC ATS

1 WESTERBERG DRIVE
FARMINGTON, CT 06032



PREPARED FOR:



CONSULTANT:
GENERAL DYNAMICS
 Information Technology, Inc.
 GENERAL DYNAMICS
 101 STATION DR
 WESTWOOD, MA 02090

Certification & Seal:
 I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Connecticut.



[Signature] 2/21/2024
 Signature: Date:

MARK	DATE	DESCRIPTION
3	02/21/24	REVISED GENERATOR AND PLATFORM SIZE
2	08/17/23	ADDED LEASE AREA DETAILS
1	03/30/23	ADDED STRUCTURAL DETAILS

ISSUE PHASE: FINAL DATE ISSUED: 12/19/2022
 PROJECT TITLE:
FARMINGTON WESTERBERG DRIVE
FA ID # 10090928

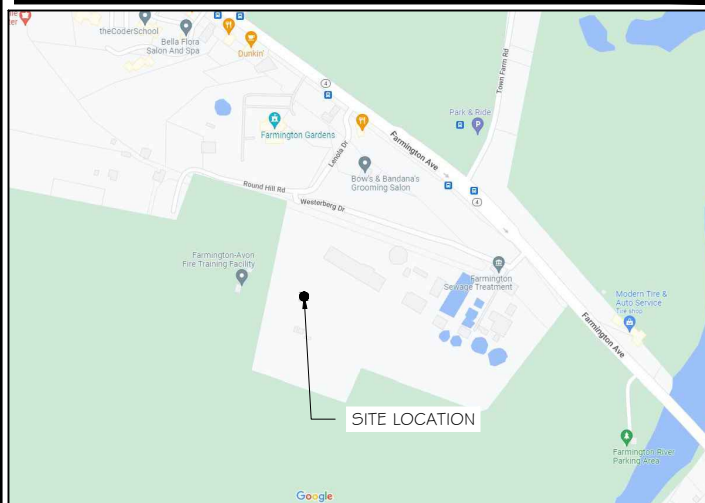
PROJECT INFORMATION:
 1 WESTERBERG DRIVE
 FARMINGTON, CT 06032

SHEET TITLE:
 TITLE SHEET

SCALE: NONE

PROJECT NUMBER: 57094
 SHEET NUMBER: T-1

VICINITY MAP



SCOPE OF WORK

ADD STANDBY GENERATOR, ASSOCIATED RAISED PLATFORM, AND UTILITY EQUIPMENT TO EXISTING AT&T EQUIPMENT AREA. THERE WILL BE NO CHANGE IN THE SIZE OR HEIGHT OF THE TOWER OR ANTENNAS.

APPLICABLE BUILDING CODE & STANDARDS

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITION OF THE FOLLOWING CODES AS ADOPTED BY THE GOVERNING LOCAL AUTHORITIES. NOTHING IN THESE PLANS ARE TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- INTERNATIONAL BUILDING CODE 2021
- NATIONAL ELECTRIC CODE 2020
- AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL TOWER AND ANTENNA SUPPORTING STRUCTURES
- TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS



TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN CONNECTICUT

CALL BEFORE YOU DIG
811 OR 1-800-922-4455

CONNECTICUT PUBLIC ACT 87-71 REQUIRES MIN. 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE.

AERIAL VIEW OF SITE



PROJECT INFORMATION

PROJECT MANAGER:
 MATTHEW HIGGINS
 GENERAL DYNAMICS WIRELESS SERVICES
 101 STATION DRIVE
 WESTWOOD, MA 02090
 EMAIL: Matthew.Higgins@GDIT.com

ENGINEER:
 RAMAKER & ASSOCIATES, INC.
 855 COMMUNITY DRIVE
 SAUK CITY, WI 53583
 PH.: (608) 643-4100
 FAX: (608) 643-7999
 CONTACT: TYLER BEATTY
 EMAIL: tbeatty@ramaker.com

APPLICANT INFORMATION:
 AT&T MOBILITY
 7150 STANDARD DR
 HANOVER, MD 21076

SITE DATA:
 SITE NAME: FARMINGTON WESTERBERG DRIVE
 FA NUMBER: 10090928

PROPERTY OWNER:
 SBA
 BROKEN SOUND PARKWAY
 BOCA RATON, FL 33487

ADDRESS:
 1 WESTERBERG DRIVE
 FARMINGTON, CT 06032

COUNTY: HARTFORD
 LAT.: 41.73048390°
 LONG.: -72.83548810°

GROUND ELEVATION: 163 FT AMSL

DO NOT SCALE DRAWINGS:
 CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT IS STRICTLY PROHIBITED.

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- GENERAL:
 T-1 TITLE SHEET
- NOTES:
 N-1 GENERAL NOTES
- SITE:
 A-0 OVERALL SITE PLAN
 A-1 SITE PLAN
 A-2 SITE PLAN & EQUIPMENT LAYOUT
 S-1 EQUIPMENT PLATFORM DETAILS
 S-2 FENCE EXTENSION DETAILS
- ELECTRICAL & GROUNDING:
 E-1 WIRING DETAILS
 E-2 PANEL AND PENETRATION DETAILS
 E-3 ATS, CONDUIT & GROUND ROD DETAILS
 E-4 GENERAC GENERATOR SPECIFICATIONS
 E-4.1 GENERAC GENERATOR SPECIFICATIONS
 E-4.2 GENERAC GENERATOR SPECIFICATIONS
 E-5 GENERAC ATS SPECIFICATIONS
 E-5.1 GENERAC ATS SPECIFICATIONS

SIGNATURE BLOCK

AT&T MGR. _____ DATE _____
 GENERAL DYNAMICS CONSTRUCTION MGR. _____ DATE _____
 SITE ACQUISITION _____ DATE _____

NOTES TO SUBCONTRACTOR:

1. THE GENERAL SUBCONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.
2. IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETED INSTALLATION. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORM WORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL ORDINANCES, TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.
3. THE SUBCONTRACTOR SHALL USE ADEQUATE NUMBER OF SKILLED WORKMAN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHOD NEEDED FOR PROPER PERFORMANCE OF THE WORK.
4. CONSTRUCTION SUBCONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION SUBCONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION SUBCONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.
5. SITE GROUNDING SHALL COMPLY WITH AT&T WIRELESS SERVICES TECHNICAL SPECIFICATIONS FOR FACILITY GROUNDING FOR CELL SITE STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T TOWERS GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN. GROUNDING SHALL BE COMPLETED BEFORE ERECTION OF TOWER.
6. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION. IF TEMPORARY LIGHTING AND MARKING IS REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION (FAA), IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE NECESSARY LIGHTS AND NOTIFY THE PROPER AUTHORITIES IN THE EVENT OF A PROBLEM.
7. ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES OR ORDINANCES. THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE REQUIREMENTS.
8. ANY DAMAGE TO THE ADJACENT PROPERTIES WILL BE CORRECTED AT THE SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE LANDOWNER AND THE ENGINEER.
9. THE COMPLETE BID PACKAGE INCLUDES THESE CONSTRUCTION DRAWINGS ALONG WITH THE SPECIFICATIONS. SUBCONTRACTOR IS RESPONSIBLE FOR REVIEW OF TOTAL BID PACKAGE PRIOR TO BID SUBMITTAL..
10. SUBCONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION.
11. THE SUBCONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. SILT AND EROSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE OF THE SITE AT ALL TIMES. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE SUBCONTRACTOR'S EXPENSE.
12. CLEARING OF TREES AND VEGETATION ON THE SITE SHOULD BE HELD TO A MINIMUM. ONLY THE TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED. ANY DAMAGE TO THE PROPERTY OUTSIDE THE LEASED PROPERTY SHALL BE REPAIRED BY THE SUBCONTRACTOR.
13. ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES PRIOR TO DISPOSAL.
14. SEEDING AND MULCHING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE SITE DEVELOPMENT. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAIN AN ADEQUATE COVER OF VEGETATION OVER THE SITE FOR A ONE YEAR PERIOD.
15. PERMITS: THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC.
16. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DRAWINGS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.
17. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR EXISTING UTILITIES BELIEVED TO BE IN THE WORKING AREA. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO VERIFY ALL UTILITIES, PIPELINES AND OTHER STRUCTURES SHOWN OR NOT SHOWN ON THESE PLANS. THE SUBCONTRACTOR SHALL CONTACT THE LOCAL JURISDICTION'S DIGGER'S HOTLINE BEFORE DIGGING OR DRILLING. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AND ENGINEER AT THE SUBCONTRACTOR'S EXPENSE.

GENERAL NOTES:

1. THIS PROPOSAL IS FOR THE ADDITION OF A NEW GENERATOR ON A CONCRETE PAD TO AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING OF AN EQUIPMENT SHELTER AND TOWER.
2. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE.
3. THE PROPOSED FACILITY IS UNMANNED AND IS NOT FOR HUMAN HABITAT. (NO HANDICAP

ACCESS IS REQUIRED)

4. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH BY AT&T TECHNICIANS.
5. OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT PROPOSED.
6. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
7. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATION.
8. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTION REQUIRED FOR CONSTRUCTION.
9. SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.

ELECTRICAL NOTES:

A. GENERAL

1. COORDINATE LOCATION AND POWER REQUIREMENTS OF ALL EQUIPMENT WITH AT&T AND EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.
2. COORDINATE LOCATION AND REQUIREMENTS FOR ELECTRICAL AND TELEPHONE SERVICES WITH THE PROPERTY REPRESENTATIVE, AT&T AND UTILITY COMPANIES. ROUTING OF CONDUITS MAY BE MODIFIED TO MEET SITE REQUIREMENTS. EXACT CONDUIT ROUTING TO BE DETERMINED IN THE FIELD.
3. ALL WIRING AND EQUIPMENT SHOWN ON ELECTRICAL SHEETS SHALL BE FURNISHED AND INSTALLED UNDER ELECTRICAL PORTION OF CONTRACT UNLESS OTHERWISE NOTED
4. UNINTERRUPTED ELECTRICAL SERVICE FOR EXISTING EQUIPMENT SHALL BE MAINTAINED DURING THE INSTALLATION OF THE WORK DESCRIBED UNDER THESE DOCUMENTS. TEMPORARY EQUIPMENT, CABLES AND WHATEVER ELSE IS NECESSARY SHALL BE PROVIDED AS REQUIRED TO MAINTAIN ELECTRICAL SERVICE. TEMPORARY SERVICE FACILITIES, IF REQUIRED AT ANY TIME, SHALL NOT BE DISCONNECTED OR REMOVED UNTIL NEW SERVICE EQUIPMENT IS IN PROPER OPERATION. IF ANY SERVICE OR SYSTEM MUST BE INTERRUPTED, THE CONTRACTOR SHALL REQUEST PERMISSION IN WRITING STATING THE DATE, TIME, ETC. THE SERVICE WILL BE INTERRUPTED AND THE AREAS AFFECTED. THIS REQUEST SHALL BE MADE IN SUFFICIENT TIME FOR PROPER ARRANGEMENTS TO BE MADE. WRITTEN PERMISSION SHALL BE OBTAINED FROM THE OWNER BEFORE INTERRUPTING ELECTRICAL SERVICE.
5. COORDINATE NEW WORK WITH OTHER TRADES AND VERIFY EXISTING CONDITIONS TO AVOID INTERFERENCE. IN CASE OF INTERFERENCE, AT&T'S REPRESENTATIVE WILL DECIDE WHICH WORK IS TO BE RELOCATED, REGARDLESS OF WHICH WAS FIRST INSTALLED.
6. THE INSTALLATION MUST COMPLY WITH NEC AND ALL FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.
7. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT UNLESS OTHERWISE DEFINED BY DIMENSIONS OR DETAILS. EXACT EQUIPMENT LOCATIONS AND RACEWAY ROUTING SHALL BE GOVERNED BY ACTUAL FIELD CONDITIONS AND/OR DIRECTIONS FROM AT&T'S REPRESENTATIVE.
8. CONTRACTOR SHALL PAY ALL PERMITS AND FEES REQUIRED.
9. ALL MATERIALS SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STANDARDS REFERENCED BELOW:
 - a. ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE)
 - b. ASTM (AMERICAN SOCIETY FOR TESTING MATERIALS)
 - c. ETL (ELECTRICAL TESTING LABORATORY)
 - d. ICEA (INSULATED CABLE ENGINEERS ASSOCIATION)
 - e. IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS)
 - f. MBFU (NATIONAL BOARD OF FIRE UNDERWRITERS)
 - g. NESC (NATIONAL ELECTRICAL SAFETY CODE)
 - h. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)
 - i. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
 - j. UL (UNDERWRITER'S LABORATORY)

10. CONTRACTOR SHALL REVIEW PLANS, DETAILS AND SPECIFICATIONS IN DETAIL AND ADJUST WORK TO CONFORM WITH ACTUAL SITE CONDITIONS SO THAT ELECTRICAL DEVICES AND EQUIPMENT WILL BE LOCATED AND READILY ACCESSIBLE. QUANTITIES LISTED IN MATERIAL LISTS ON THE DRAWINGS ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL PROVIDE HIS OWN TAKEOFF FOR MATERIAL QUANTITY AND TYPES BASED ON ACTUAL SITE CONDITIONS, IN ADDITION, CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS TO INSTALL EQUIPMENT FURNISHED BY AT&T OR ITS SUPPLIERS. ALL ITEMS NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON THE DRAWINGS, BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED.

11. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) AT&T'S REPRESENTATIVE OF ANY CONFLICTS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK, IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
12. ALL FLOORS WHERE PENETRATIONS ARE REQUIRED IN BUILDING ARE TO BE CORE DRILLED AND THEN FIREPROOFED.

B. WIRING/CONDUIT

1. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR AS REQUIRED BY CODE SUCH THAT NO MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (380 DEGREES TOTAL) EXIST IN A CONDUIT RUN.
2. ALL POWER AND CONTROL/INDICATION WIRING SHALL BE TYPE THHN/THWN 800V RATED 75 DEGREES CELSIUS, UNLESS NOTED OTHERWISE.

3. SCHEDULE 80 PVC CONDUIT SHALL BE USED ABOVE GROUND, WHERE ABOVE GRADE IS DEFINED AS THE GROUND OF THE TURN-UP
4. BELL END OR TERMINAL ADAPTER MUST BE INSTALLED ON END OF PVC CONDUIT PER NEC 352.4G. 300.4 F. (3)
5. CONDUIT BENDS SHALL BE MADE IN ACCORDANCE WITH NEC TABLE 346-10. NO RIGHT ANGLE DEVICE OTHER THAN STANDARD CONDUIT ELBOWS WITH 1/2" MINIMUM INSIDE SWEEPS FOR ALL CONDUITS 2" OR LARGER.
6. POWER WIRING SIZE SHALL NOT BE SMALLER THAN #12 AWG.
7. ALL WIRING SHALL BE COPPER. ALUMINUM WILL NOT BE ACCEPTABLE ALL POWER CIRCUITS SHALL CONTAIN A GROUND WIRE.
8. PHASE MARKINGS TO BE USED AT POWER CONDUCTOR TERMINATIONS.
9. CONTRACTOR SHALL ENSURE INTEGRITY IS MAINTAINED WHEN INSTALLING CONDUIT AND WIRING.
10. INSTALL PULL STRING IN ALL CONDUIT.

11. FOR ROOFTOP INSTALLS AND BUILD-OUTS, CONDUITS INSIDE BUILDING AND ON ROOF SHALL BE RGS, UNLESS OTHERWISE NOTED. FOR RAW LAND SITES AND CO-LOCATES, PVC SCHEDULE 80 SHALL BE UTILIZED UNLESS NOTED OTHERWISE.
12. MAINTAIN MINIMUM 1'-0" VERTICAL AND 1'-0" HORIZONTAL SEPARATIONS FROM ANY MECHANICAL GAS PIPING.
13. ALL WIRING ROUTED IN PLENUM TO BE RATED OR IN METALLIC FLEX (LIQUIDITE) CONDUIT.

C. EQUIPMENT

1. EQUIPMENT/PARTS CONNECTED TO EXISTING PANELS, DUCTS, ETC. SHALL MATCH THE CHARACTERISTICS (A/C, V, A) OF THAT EQUIPMENT.
2. ALL ELECTRICAL EQUIPMENT OUTSIDE SHALL BE NEMA OR 3R RATED.

D. GROUNDING

1. ALL GROUND CONNECTIONS TO BUILDING SHALL BE MADE USING TWO-HOLE CONNECTORS. PROVIDE STAINLESS STEEL BOLTS AND LOCK WASHERS ON ALL MECHANICAL GROUND CONNECTIONS.
2. ALL EQUIPMENT SURFACES TO BE BONDED TO GROUNDING SYSTEM SHALL BE STRIPPED OF ALL PAINT AND DIRT. CONNECTIONS TO VARIOUS METALS SHALL BE OF A TYPE AS TO CAUSE A GALVANIC OR CORROSIVE REACTION. AREA SHALL BE REPAINTED FOLLOWING BONDING.
3. ANY METALLIC ITEM WITHIN 6' OF GROUND CONDUCTORS MUST BE CONNECTED TO THE GROUNDING SYSTEM.
4. EXTERIOR, ABOVE GRADE GROUND CONNECTIONS SHALL BE FURNISHED WITH A LIBERAL PROTECTIVE COATING OF ANTI-OXIDE COMPOUND.
5. ALL MATERIALS AND LABOR REQUIRED FOR THE GROUNDING SYSTEM AS INDICATED ON THE PLANS AND DETAILS, AND AS DESCRIBED HEREIN SHALL BE FURNISHED BY THIS CONTRACTOR UNLESS OTHERWISE NOTED.
6. EXACT LOCATION OF GROUND CONNECTION POINTS SHALL BE DETERMINED IN FIELD. ADJUST LOCATIONS INDICATED ON PLANS ACCORDING TO ACTUAL EQUIPMENT LOCATIONS TO KEEP THE GROUND CONNECTION CABLES AS SHORT AS PRACTICAL.
7. PROVIDE ALL ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS AS REQUIRED BY THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE AND THE CURRENT EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE. BONDING JUMPERS WITH APPROVED GROUND FITTINGS SHALL BE INSTALLED AT ALL RACEWAYS, EQUIPMENT ENCLOSURES, PULL BOXES, ETC. TO MAINTAIN GROUND CONTINUITY WHERE REQUIRED BY CODE.
8. ALL EQUIPMENT GROUND CONDUCTORS SHALL BE TIN COATED, #2 AWG COPPER UNLESS NOTED OTHERWISE ON THE DRAWINGS.
9. PROVIDE PRE AND POST GROUND TEST RESULTS, USING CLAMP-ON TESTER. TEST RESULTS SHALL BE PHOTOS WITH DIGITAL TIME AND GPS STAMPED/EMBEDDED.

E. INSPECTION/DOCUMENTATION

1. THE CONTRACTOR, UPON COMPLETION OF HIS WORK, SHALL PROVIDE AS-BUILT DRAWINGS. INFORMATION SHOULD BE GIVEN TO THE GENERAL CONTRACTOR FOR INCLUSION IN FINAL AS-BUILT SURVEY DOCUMENTS TO BE GIVEN TO THE OWNER.
2. CONTRACTOR SHALL SUPPLY DOCUMENTATION ATTESTING TO THE COMPLETE GROUND SYSTEM'S RECEPTIVITY (MAX. 5 OHMS).
3. AN ELECTRICAL INSPECTION SHALL BE MADE BY AND INSPECTING AGENCY APPROVED BY AT&T'S REPRESENTATIVE. CONTRACTOR SHALL COORDINATE ALL INSPECTIONS AND OBTAIN POWER COMPANY APPROVAL.
4. CONTRACTOR SHALL HAVE ATS AND GENERATOR RELAY INSTALLATION AND CONNECTIONS INSPECTED BY OTHERS TO ENSURE THAT UL LISTING FOR THAT EQUIPMENT IS NOT VOIDED.



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CONSULTANT:
GENERAL DYNAMICS
Information Technology, Inc.
GENERAL DYNAMICS
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WESTWOOD, MA 02090

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[Signature] 2/21/2024
Signature: Date:

MARK	DATE	DESCRIPTION
3	02/21/24	REVISED GENERATOR AND PLATFORM SIZE
2	08/17/23	ADDED LEASE AREA DETAILS
1	03/30/23	ADDED STRUCTURAL DETAILS
ISSUE PHASE	FINAL	DATE ISSUED 12/19/2022

PROJECT TITLE:
**FARMINGTON
WESTERBERG DRIVE
FA ID # 10090928**

PROJECT INFORMATION:
11 WESTERBERG DRIVE
FARMINGTON, CT 06032

SHEET TITLE:
GENERAL NOTES

SCALE: NONE

PROJECT NUMBER: 57094
SHEET NUMBER: N-1



PREPARED FOR:

CONSULTANT:
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**FARMINGTON
 WESTERBERG DRIVE
 FA ID # 10090928**

PROJECT INFORMATION:
 1 WESTERBERG DRIVE
 FARMINGTON, CT 06032

SHEET TITLE:
OVERALL SITE PLAN

SCALE:
 AS NOTED

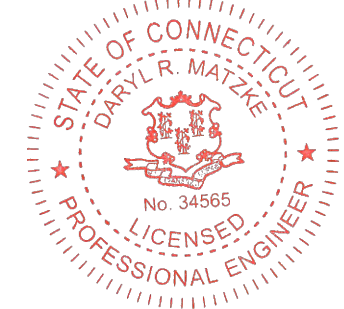
PROJECT NUMBER: 57094
 SHEET NUMBER: A-0

SITE PLAN
 SCALE: 1" = 125'



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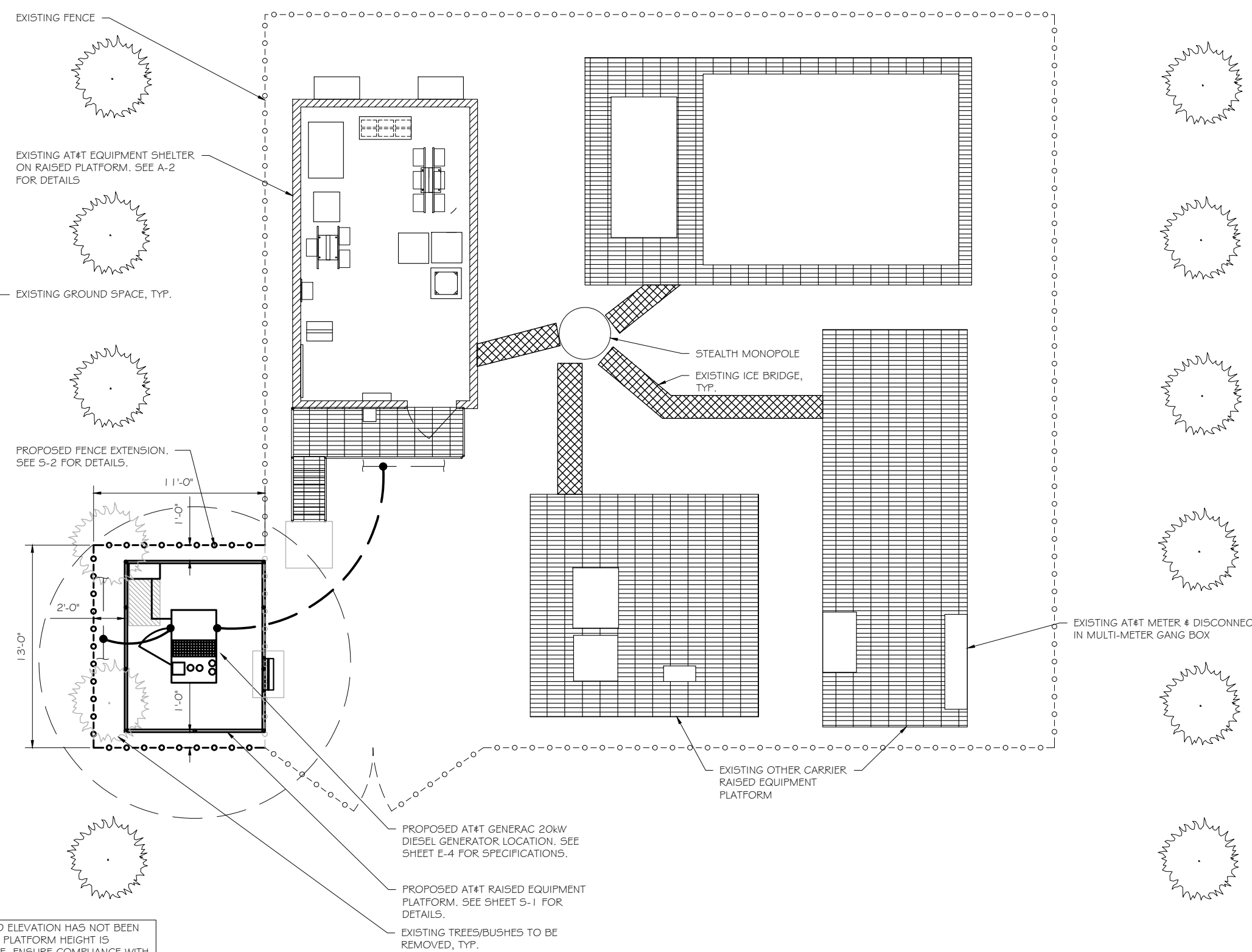
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FARMINGTON WESTERBERG DRIVE
FA ID # 10090928

PROJECT INFORMATION:
 1 WESTERBERG DRIVE
 FARMINGTON, CT 06032

SHEET TITLE:
SITE PLAN

PROJECT NUMBER: 57094
 SHEET NUMBER: A-1



NOTE: FLOOD ELEVATION HAS NOT BEEN CONFIRMED, PLATFORM HEIGHT IS APPROXIMATE. ENSURE COMPLIANCE WITH BFE PRIOR TO BEGINNING CONSTRUCTION.

SITE PLAN
 SCALE: 1" = 7.5'

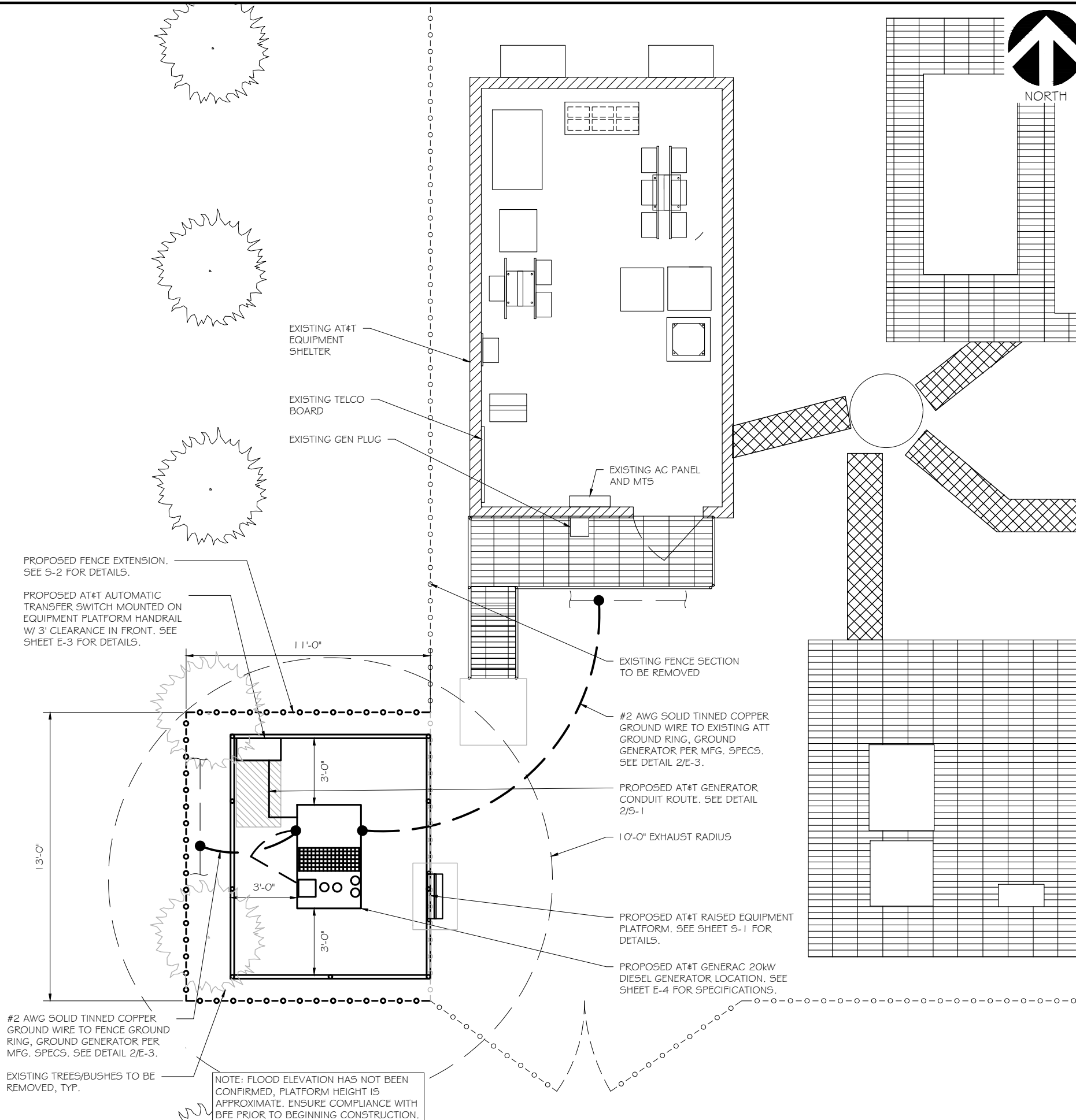
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SCOPE OF WORK DETAILS

- GENERAL:**
- NEW GENERAC DIESEL GENERATOR PROVIDED BY GENERAL DYNAMICS & INSTALLED BY GENERAL CONTRACTOR, SEE E-4.
 - NEW RAISED PLATFORM PROVIDED & INSTALLED BY GENERAL CONTRACTOR (AS REQUIRED) SEE S-1
 - NEW GENERAC AUTOMATIC TRANSFER SWITCH PROVIDED BY GENERAL DYNAMICS & INSTALLED BY CONTRACTOR (AS REQUIRED) SEE E-3 & E-5.
 - CONTRACTOR TO VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION
 - CONTRACTOR SHALL RESTORE & REPAIR ANY DAMAGED AREAS CAUSED BY CONSTRUCTION TO ORIGINAL OR BETTER CONDITION

- CONDUITS:**
- INSTALL PULL STRING IN EACH CONDUIT
 - (1) NEW 2" AND (1) NEW 1" ELECTRICAL CONDUITS WITH CONDUCTORS TO RUN FROM NEW GENERATOR TO NEW ATS. CONDUIT PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. SEE E-1, E-2 & E-3.
 - (1) NEW 1" ELECTRICAL CONDUIT WITH CONDUCTORS TO RUN FROM NEW GENERATOR TO AC PANEL. CONDUIT PROVIDED & INSTALLED BY GENERAL CONTRACTOR. SEE E-1, E-2 & E-3.
 - (1) NEW 1" ALARM CONDUIT & CABLING PROVIDED & INSTALLED BY GENERAL CONTRACTOR. SEE E-1, E-2 & E-3.

- GROUNDING:**
- NEW EXOTHERMIC CONNECTION FROM EXISTING GROUND RING TO NEW MECHANICAL CONNECTION AT GENERATOR CHASSIS. GENERAL CONTRACTOR TO VERIFY LOCATION IN FIELD. LOCATE GROUND RODS NO MORE THAN 8'-0" APART.



SITE PLAN
 SCALE: 1" = 5'



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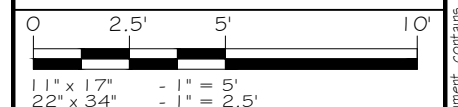
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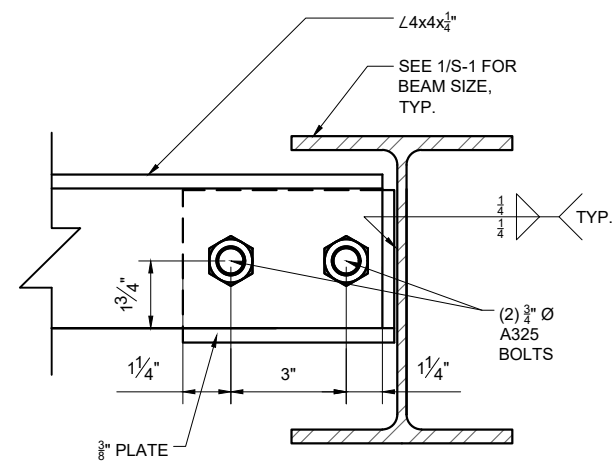
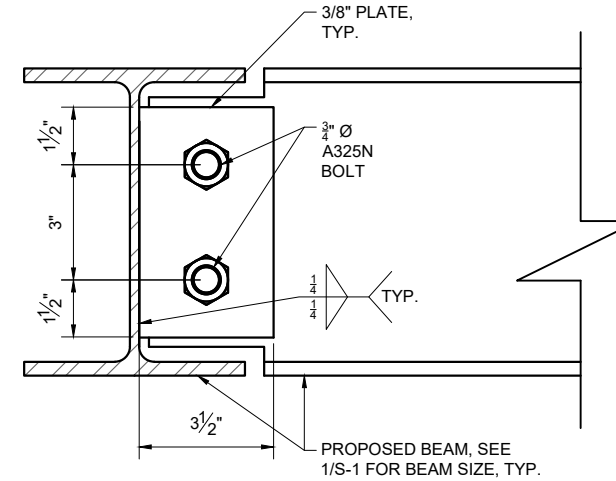
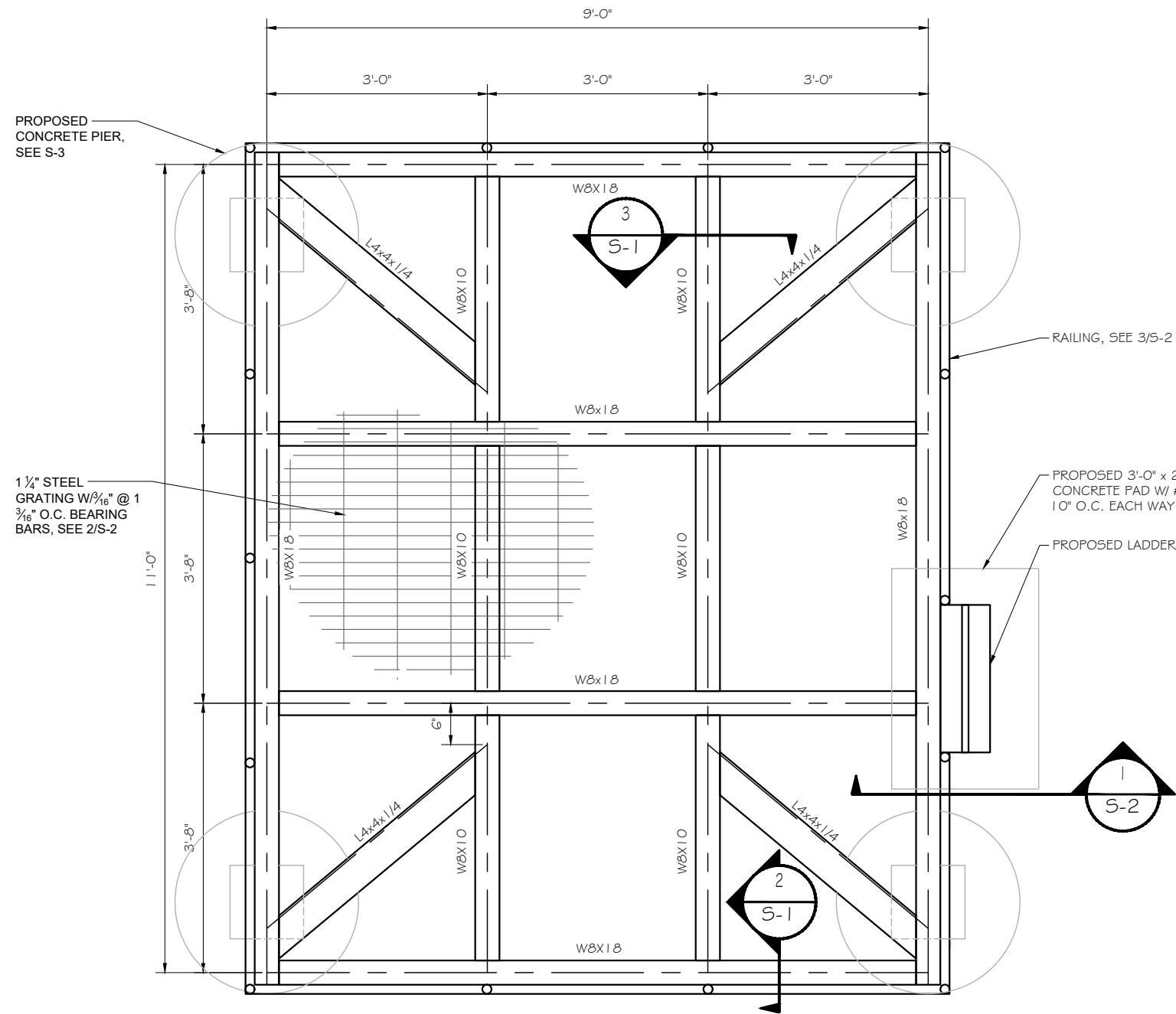
PROJECT TITLE:
FARMINGTON WESTERBERG DRIVE
FA ID # 10090928

PROJECT INFORMATION:
 1 WESTERBERG DRIVE
 FARMINGTON, CT 06032

SHEET TITLE:
SITE PLAN & EQUIPMENT LAYOUT



PROJECT NUMBER: 57094
 SHEET NUMBER: A-2



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ISSUE PHASE: FINAL DATE ISSUED: 12/19/2022

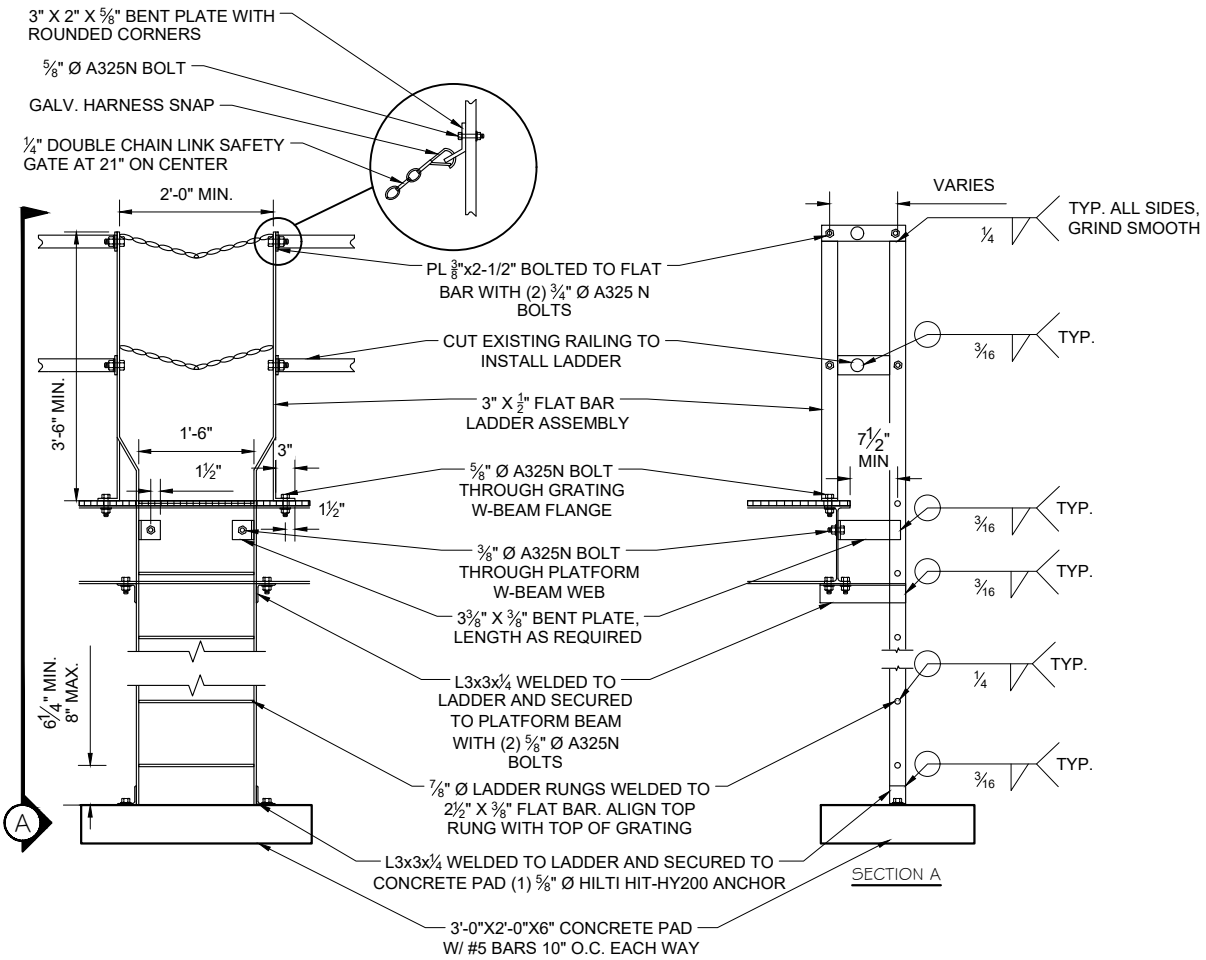
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FARMINGTON WESTERBERG DRIVE
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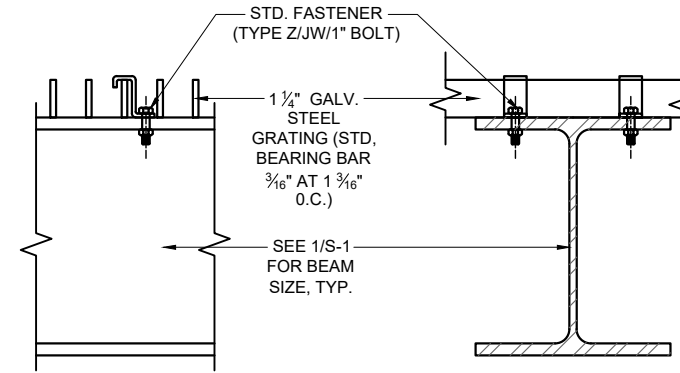
SHEET TITLE:
STRUCTURAL DETAILS

SCALE: NONE

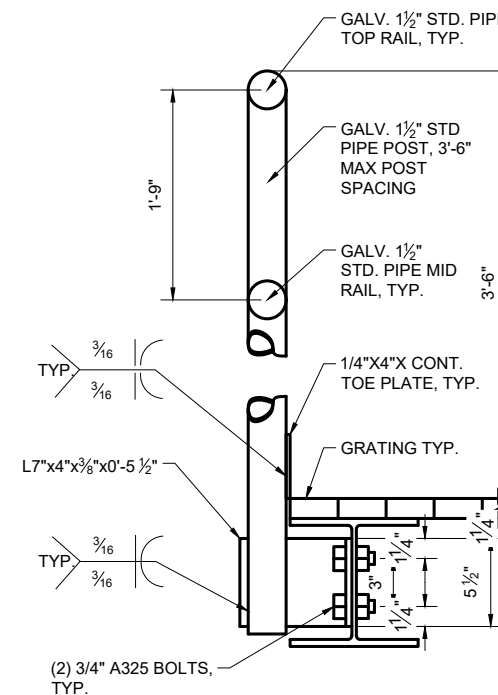
PROJECT NUMBER: 57094
 SHEET NUMBER: S-1



PROPOSED LADDER
 SCALE: NTS



PLATFORM GRATING
 SCALE: NTS



RAILING
 SCALE: NTS

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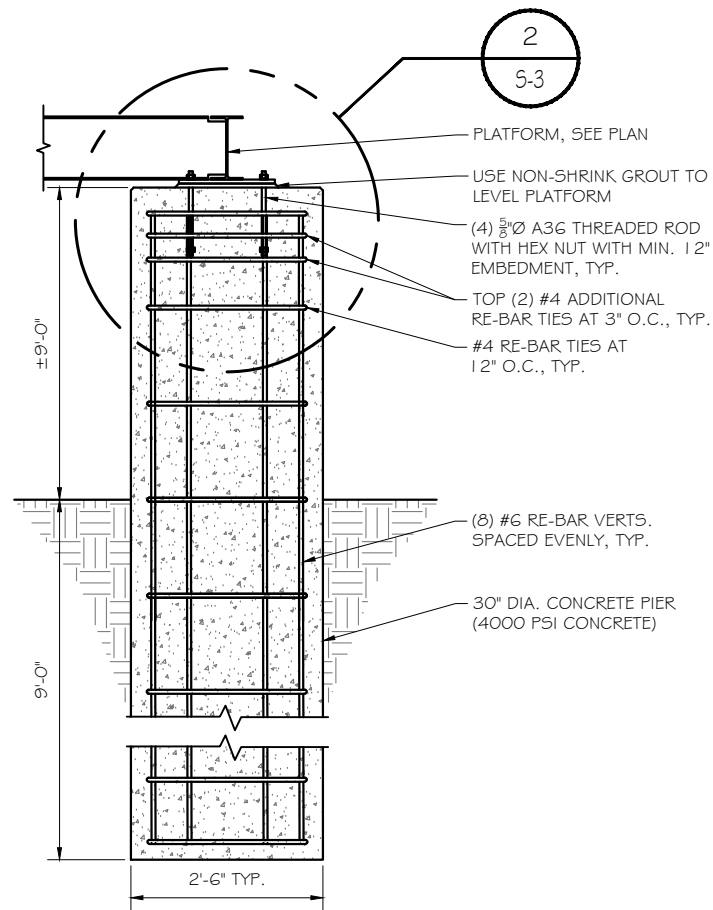
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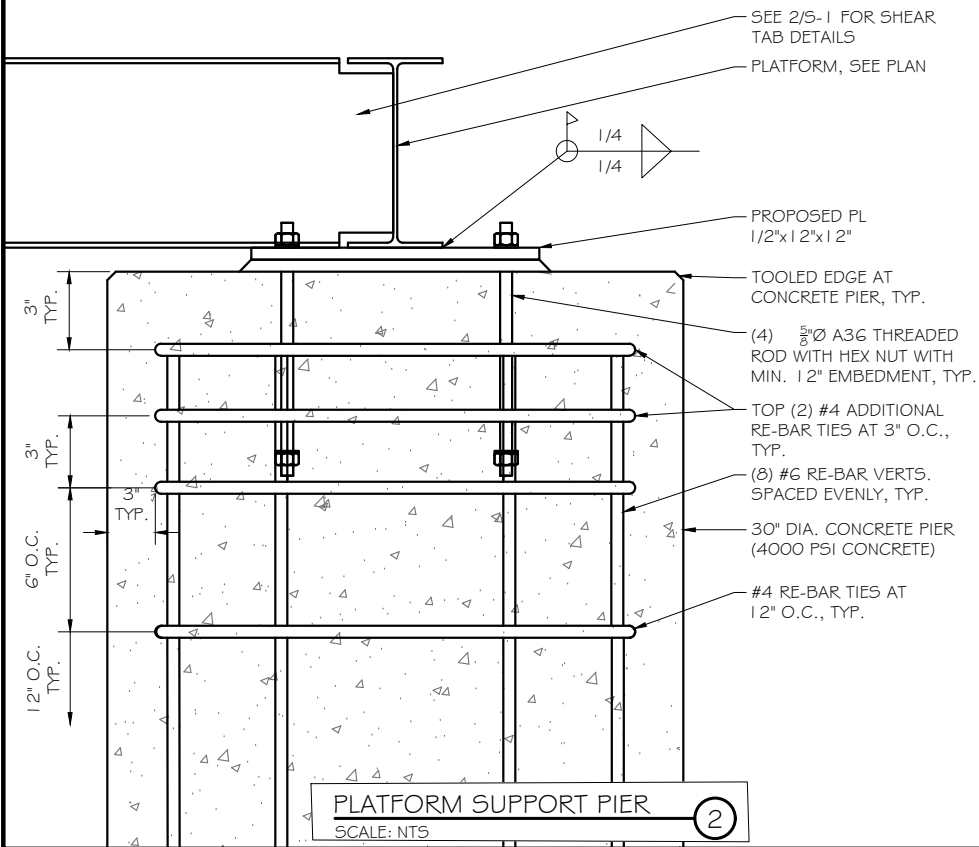
SHEET TITLE:
STRUCTURAL DETAILS

SCALE: NONE

PROJECT NUMBER: 57094
 SHEET NUMBER: 5-2



CONCRETE PIER DETAIL
 SCALE: NTS



PLATFORM SUPPORT PIER
 SCALE: NTS

STRUCTURAL STEEL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES
2. MATERIAL SPECIFICATIONS
 WIDE FLANGE SECTIONS 50 KSI, ASTM A992
 ANGLES, PLATES, AND CHANNELS 36 KSI, ASTM A36
 SQUARE AND RECTANGULAR HSS 46 KSI, ASTM A500 GRADE B
 PIPE 35 KSI, ASTM A53 GRADE B
 HIGH STRENGTH BOLTS ASTM A325-N
 HEAVY HEX NUTS ASTM A563
 WELDING ELECTRODES E70XX
3. ALL CONNECTION BOLTING IS TO BE WITH GALV. A-325N BOLTS UNLESS NOTED OTHERWISE. BOLTS NEED ONLY BE TIGHTENED TO THE SNUG-TIGHT CONDITION. SNUG-TIGHT IS DEFINED AS THE TIGHTNESS OBTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A PERSON USING AN ORDINARY SPUD WRENCH.
4. ALL WELDING SHALL COMPLY WITH THE AWS STRUCTURAL WELDING CODES. ALL WELDING TO BE PERFORMED BY AWS PRE-QUALIFIED WELDERS CERTIFIED FOR THE GIVEN APPLICATION. ALL WELDING TO BE SHOP WELDED.
5. ALL STEEL EXPOSED TO MOISTURE, SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION PER ASTM A-123. ALL DAMAGED SURFACES, WELDED AREAS AND AUTHORIZED NON-GALVANIZED MEMBERS OR PARTS (EXISTING OR NEW) SHALL BE PAINTED WITH 2 COATS OF ZRC COLD GALVANIZING COMPOUND MANUFACTURED BY ZRC CHEMICAL PRODUCTS CO. QUINCY, MA OR USE THERMAL SPRAYING WITH PLATTZINC 85/15 AS MANUFACTURED BY PLATT BROTHERS & COMPANY WATERBURY, CT.
6. ALL PIPE SIZES ARE NOMINAL DIAMETER.
7. CONTRACTOR SHALL MEASURE AND VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN FIELD. ANY UNUSUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE PURCHASE, FABRICATION AND ERECTION OF ANY MATERIAL.
8. INCORRECTLY FABRICATED, DAMAGED, OTHERWISE MISFITTING, OR NON-CONFORMING MATERIALS AND CONDITIONS SHALL BE REPORTED TO THE OWNER, ENGINEER, AND CONSTRUCTION MANAGER PRIOR TO ANY REMEDIAL OR CORRECTIVE ACTION. ALL ACTIONS SHALL REQUIRE APPROVAL FROM THE OWNER.
9. CONTRACTOR SHALL PROMPTLY REMOVE ANY & ALL DEBRIS FROM SITE.
10. ALL STEEL TO BE ERECTED PLUMB AND LEVEL.

STRUCTURAL GENERAL NOTES

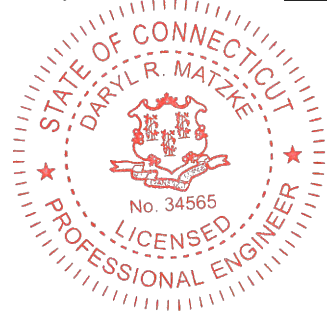
- 1.0 GENERAL CONDITIONS
- 1.1 DESIGN & CONSTRUCTION OF ALL WORK SHALL CONFORM TO LOCAL BUILDING CODES, ACI 318-11. IN CASE OF CONFLICT BETWEEN THE CODES, STANDARDS, REGULATIONS, SPECIFICATIONS, GENERAL NOTES AND/OR MANUFACTURER'S REQUIREMENTS, USE THE MOST STRINGENT PROVISIONS.
- 1.2 IT IS THE EXPRESS INTENT OF PARTIES INVOLVED IN THIS PROJECT THAT THE CONTRACTOR OR SUBCONTRACTOR OR INDEPENDENT CONTRACTOR OR THE RESPECTIVE EMPLOYEES SHALL EXCULPATE THE ARCHITECT, THE ENGINEER, TECH. CONSTRUCTION MANAGER, THE OWNER, & THEIR AGENTS FROM ANY LIABILITY WHATSOEVER & HOLD THEM HARMLESS AGAINST LOSS, DAMAGES, LIABILITY OR ANY EXPENSE ARISING IN ANY MATTER FROM THE WRONGFUL OR NEGLIGENT ACT, OR FAILURE TO CARRY METHODS, TECHNIQUES OR PROCEDURES OR FAILURE TO CONFORM TO THE STATE SCAFFOLDING ACT IN CONNECTIONS WITH THE WORK.
- 1.3 DO NOT SCALE DRAWINGS
- 1.4 VERIFY ALL EQUIPMENT MOUNTING DIMENSIONS PER MANUFACTURER DRAWINGS
- 3.0 CONCRETE
- 3.1 MEET OR EXCEED THE FOLLOWING CODES & STANDARDS:

DESIGN	: ACI 318-11
CONSTRUCTION	: ACI 301
DETAILING	: CRSI MANUAL OF STANDARD PRACTICE
REINF. STEEL	: ASTM A 615 GRADE 60, DEFORMED
MIXING	: ASTM C 94. READY MIX CONCRETE
AIR ENTRAINMENT	: ACI 318 AND ASTM C-260
AGGREGATE	: ASTM C 33 AND C 330 (FOR LIGHT WEIGHT)
- 3.2 CONCRETE STRENGTH AT 28 DAYS SHALL BE 4000 PSI MINIMUM
- 3.3 DO NOT FIELD BEND OR WELD TO GRADE 60 REINFORCED STEEL
- 3.4 PROVIDE AIR ENTRAINMENT CONCRETE WITH AIR CONTENT OF 5 TO 7% FOR ALL CONCRETE EXPOSED TO EARTH OR WEATHER.
- 3.5 MAXIMUM AGGREGATE SIZE: 3/4"
- 3.6 DO NOT USE IN ADMIXTURE, WATER OR OTHER CONSTITUENTS OF CONCRETE WHICH HAS CALCIUM CHLORIDE.
- 3.7 MINIMUM COVER FOR REINFORCING STEEL SHALL BE AS SHOWN ON PLAN.
- 4.0 FOUNDATION & EXCAVATION NOTES
- 4.1 PIERS SHALL REACH A MINIMUM DEPTH OF 9'-0"
- 4.2 ALL ORGANIC AND/OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM FOUNDATION & SLAB SUBGRADE & BACKFILL AREAS, & THEN BACKFILLED WITH ACCEPTABLE GRANULAR FILL COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT (ASTM D 1557).
- 4.3 THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST, OR ICE FROM PENETRATING ANY FOOTING OR STRUCTURAL SUBGRADE BEFORE & AFTER PLACING OF CONCRETE, AND UNTIL SUCH CONCRETE HAS FULLY CURED.

PREPARED FOR:

CONSULTANT:
GENERAL DYNAMICS
 Information Technology, Inc.
 GENERAL DYNAMICS
 101 STATION DR
 WESTWOOD, MA 02090

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Signature: *[Signature]* Date: 2/21/2024

MARK	DATE	DESCRIPTION
3	02/21/24	REVISED GENERATOR AND PLATFORM SIZE
2	08/17/23	ADDED LEASE AREA DETAILS
1	03/30/23	ADDED STRUCTURAL DETAILS

ISSUE PHASE: FINAL DATE ISSUED: 12/19/2022
 PROJECT TITLE:
FARMINGTON WESTERBERG DRIVE
 FA ID # 10090928
 PROJECT INFORMATION:
 1 WESTERBERG DRIVE
 FARMINGTON, CT 06032

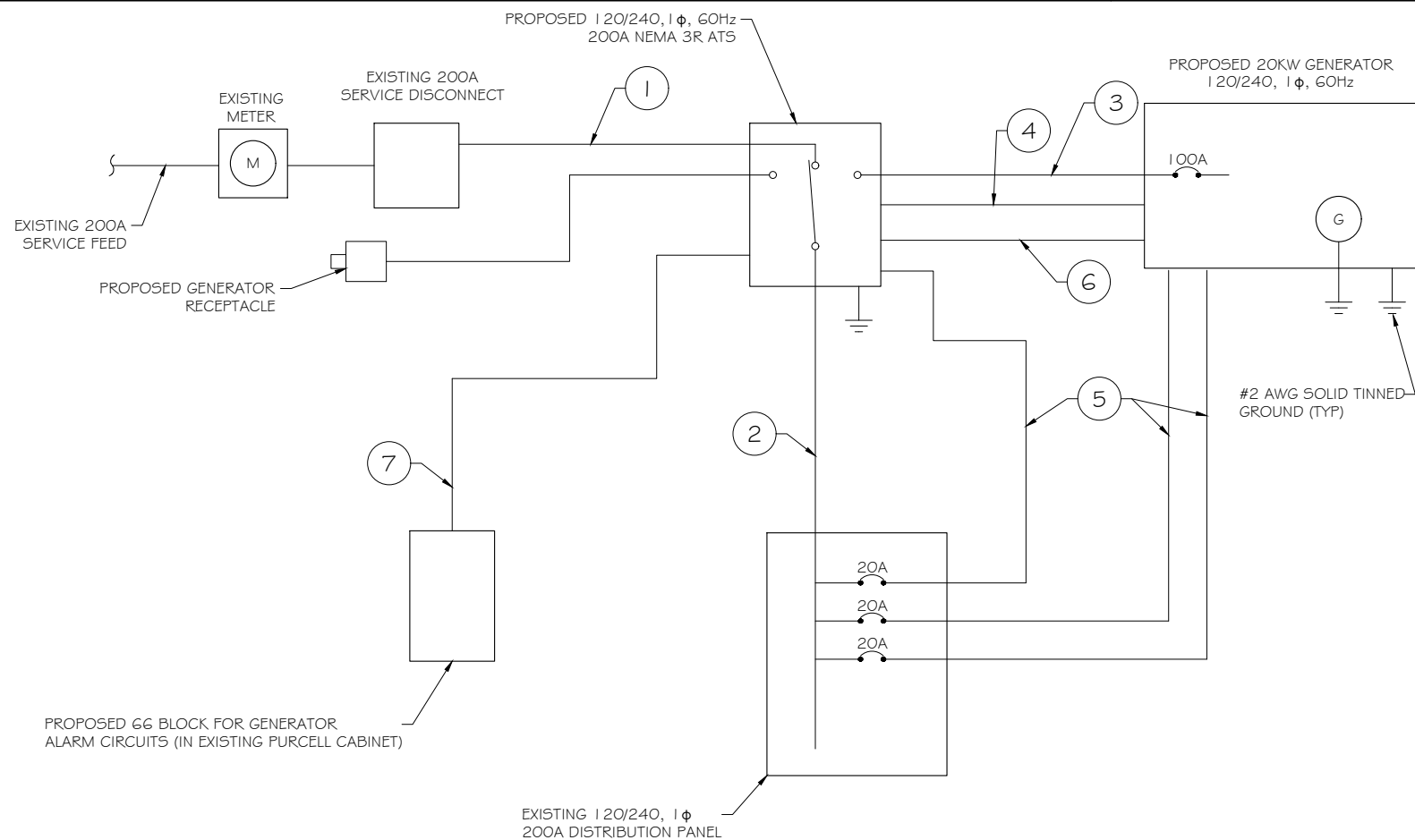
SHEET TITLE:
STRUCTURAL DETAILS

SCALE: NONE
 PROJECT NUMBER: 57094
 SHEET NUMBER: S-3

DIAGRAM CIRCUIT SCHEDULE

NO.	FROM	TO	WIRES	GROUND	CONDUIT SIZE	FUNCTION
1	NORMAL POWER SOURCE	AUTOMATIC TRANSFER SWITCH	(3) 3/0	(1) #4	2"	NORMAL POWER FEEDER TO ATS (CUT BACK EXISTING)
2	AUTOMATIC TRANSFER SWITCH	LOAD CENTER	(3) 3/0	(1) #4	2"	POWER FEEDER FROM ATS TO PANEL
3	GENERATOR	AUTOMATIC TRANSFER SWITCH	(3) #3	(1) #8	1 1/4"	EMERGENCY POWER FEEDER TO ATS
4	AUTOMATIC TRANSFER SWITCH	GENERATOR	(2) #10	(1) #10	1"	START CIRCUIT
5	LOAD CENTER (DISTRIBUTION CENTER)	GENERATOR, ATS	(2) #12 (2) #12 (2) #12	(1) #12 (1) #12 (1) #12	1" 1" 1"	CIRCUIT FOR GENERATOR BLOCK HEATER & BATTERY HEATER CIRCUIT FOR BATTERY CHARGER CIRCUIT FOR ATS
6	GENERATOR	AUTOMATIC TRANSFER SWITCH	1 2-PAIR 24 AWG OR 2EA 6-PAIR CAT5	N/A	1"	ALARM CABLES (1) 12 PAIR 24 AWG. PROVIDE 24" OF SLACK CABLE. FINAL PUNCH DOWN IS BY AT&T TECH. LABEL ALL WIRES
7	AUTOMATIC TRANSFER SWITCH	ALARM BLOCK	1 2-PAIR 24 AWG OR 2EA 6-PAIR CAT5	N/A	1"	ALARM CABLES (1) 12 PAIR 24 AWG (RUN TO PURCELL CABINET & INTO ALARM BOX). PROVIDE 24" OF SLACK CABLE. FINAL PUNCH DOWN IS BY AT&T TECH. LABEL ALL WIRES

CIRCUIT DETAIL
 SCALE: NTS



PROPOSED WIRING DIAGRAM
 SCALE: NTS

ALARM WIRE IDENTIFICATION CHART

WIRE	ALARM
BROWN BROWN / WHITE	GENERATOR RUNNING
GREEN GREEN / WHITE	CRITICAL FAULT
BLUE BLUE / WHITE	MINOR FAULT
ORANGE ORANGE / WHITE	LOW FUEL
BROWN * BROWN / WHITE *	FUEL LEAK

*CAT5 CABLE ONLY, FROM 2ND CAT5 CABLE

ALARM WIRING IDENTIFICATION CHART
 SCALE: NTS



PREPARED FOR:



CONSULTANT:
GENERAL DYNAMICS
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MARK	DATE	DESCRIPTION
ISSUE	FINAL	DATE ISSUED 12/19/2022

PROJECT TITLE:
**FARMINGTON
 WESTERBERG DRIVE
 FA ID # 10090928**

PROJECT INFORMATION:
 1 WESTERBERG DRIVE
 FARMINGTON, CT 06032

SHEET TITLE:
WIRING DETAILS

SCALE: NONE

PROJECT NUMBER	57094
SHEET NUMBER	E-1

AC Distribution Panel - Layout Diagram

Breaker Position	Breaker Type	On/Off	Size	Circuit Label	Breaker Position	Breaker Type	On/Off	Size	Circuit Label
1					2	1P	OFF	20	SPARE
3	2P	OFF	50	SPARE	4	1P	ON	20	TELCO RECEPT.
5	1P	ON	20	INTERIOR LIGHTS	6	1P	ON	20	RECEPT. LEFT
7	1P	ON	20	GFCI	8				
9	1P	ON	20	EXTERIOR LIGHTS	10	2P	ON	50	HVAC 1
11					12				
13	2P	ON	30	RECTIFIER 1 AND 7	14	2P	ON	30	RECTIFIER 2 AND 8
15					16				
17	2P	ON	30	RECTIFIER 3 AND 9	18	2P	ON	30	RECTIFIER 4 AND 10
19					20				
21	2P	ON	30	RECTIFIER 5 AND 11	22	2P	OFF	30	SPARE
23					24				
25	2P	OFF	30	SPARE	26	2P	OFF	30	SPARE
27					28	1P	ON	20	RECEPT. RIGHT
29	2P	OFF	30	SPARE	30	1P	OFF	20	SPARE
31	1P	OFF	20	SPARE	32	1P	ON	20	SMOKE DETECTOR
33	1P	OFF	20	SPARE	34				EMPTY
35	1P	ON	20	ATS	36				EMPTY
37	1P	ON	20	BLOCK HEATER	38				EMPTY
39	1P	ON	20	BATTERY CHARGER	40				EMPTY
41					42				EMPTY

PROPOSED 20A BREAKERS FOR ATS, BLOCK HEATER AND BATTERY CHARGER ON NEW AT&T GENERATOR

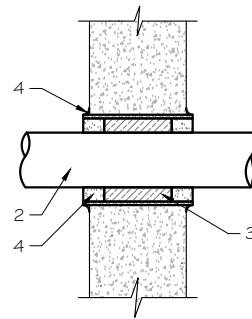
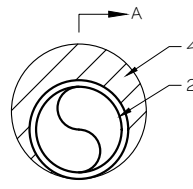
EXISTING PANEL SCHEDULE

SCALE: NTS



NOTE:
 CONTRACTOR TO LABEL WIRES WITH P-TOUCH OR SIMILAR LABELS ONLY. ABSOLUTELY NO HANDWRITTEN LABELS.

*CONTRACTOR TO UTILIZE NEXT AVAILABLE IN SEQUENCE SINGLE BREAKER POSITION FOR GENERATOR, BATTERY CHARGER, BATTERY HEATER AND BLOCK HEATER



NOTE:
 1. IF EXISTING CONSTRUCTION VARIES FROM THIS DETAIL, AN EQUAL 3-HR U.L. PENETRATION APPROPRIATE FOR THE EXISTING WALL TYPE SHALL BE CONSTRUCTED
 2. GC SHALL USE NON-SHRINKING CAULK TO WEATHERSEAL ALL PENETRATIONS INTO OR THRU SHELTER WALL.

U.L. SYSTEM NO. C-AJ-1150
 CONDUIT THROUGH BEARING WALL SIMILAR TO U.L. DESIGN NO. U902
 F RATING = 3 HR
 T RATING = 0 HR

- FLOOR OR WALL ASSEMBLY : MINIMUM 4-1/2" THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAMETER OF OPENING IS 4". SEE CONCRETE BLOCKS (9CATZ) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- THROUGH PENETRATIONS : ONE METALLIC PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE ANNULAR SPACE SHALL BE MINIMUM 0". (POINT CONTACT) TO MAXIMUM 1-3/8". THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:
 A. STEEL PIPE-NOMINAL 6" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE.
 B. IRON PIPE-NOMINAL 6" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.
 C. CONDUIT - NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR NOMINAL 3-1/2" DIAMETER (OR SMALLER) STEEL CONDUIT.
- PACKING MATERIAL: MINIMUM 6" THICKNESS OF MIN 4.0 PCF MINERAL WOOL BATTING INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
- FILL, VOID, OR CAVITY MATERIAL*: SEALANT: MINIMUM 1/4" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR AND WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND CONCRETE, A MINIMUM 1/2" DIAMETER BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL. W RATING APPLIES ONLY WHEN CP6015 OR CP604 SEALANT IS USED.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. : CP6015, CP604, CP606, OR FS-ONE SEALANT.

* BEARING THE UL CLASSIFICATION MARK

OUTER WALL PENETRATION DETAIL (IF APPLICABLE)

SCALE: NTS



Type GR
 CABLE TAP TO TOP OF GROUND ROD

Type GT
 THROUGH CABLE TO TOP OF GROUND ROD.

Type GY
 THROUGH CABLE TO SIDE OF GROUND ROD

Type HS
 HORIZONTAL CABLE TAP TO HORIZONTAL STEEL SURFACE OR PIPE. CABLE OFF SURFACE.

Type TA
 TEE OF HORIZONTAL RUN AND TAP CABLES.

Type VN
 HORIZONTAL CABLE TAP TO VERTICAL STEEL SURFACE OR THE SIDE OF HORIZONTAL PIPE

Type VS
 CABLE TAP DOWN AT 45° TO VERTICAL STEEL SURFACE OR SIDE OF HORIZONTAL OR VERTICAL PIPE.

Type VV
 THROUGH VERTICAL CABLE TO VERTICAL STEEL SURFACE OR TO THE SIDE OF EITHER HORIZONTAL OR VERTICAL PIPE

Type GR
 CABLE TAP TO TOP OF GROUND ROD

CADWELD DETAILS

SCALE: NTS



employee-owned
 (608) 643-4100 www.ramaker.com

PREPARED FOR:

CONSULTANT:
GENERAL DYNAMICS
 Information Technology, Inc.

GENERAL DYNAMICS
 101 STATION DR
 WESTWOOD, MA 02090

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ISSUE PHASE: FINAL DATE ISSUED: 12/19/2022

PROJECT TITLE:
FARMINGTON WESTERBERG DRIVE
FA ID # 10090928

PROJECT INFORMATION:
 1 WESTERBERG DRIVE
 FARMINGTON, CT 06032

SHEET TITLE:
PANEL AND PENETRATION DETAILS

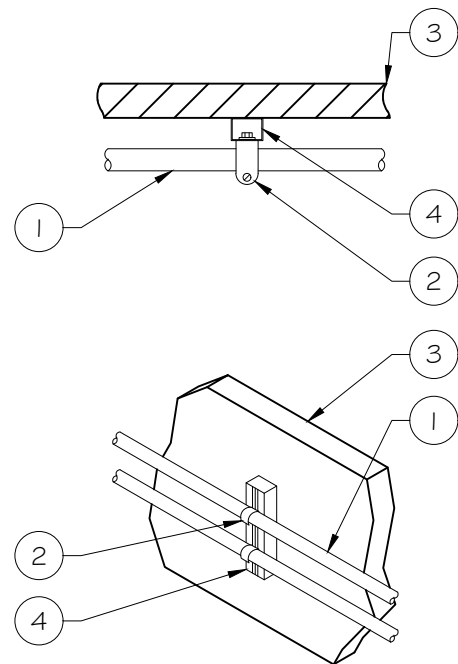
SCALE: NONE

PROJECT NUMBER: 57094
 SHEET NUMBER: E-2

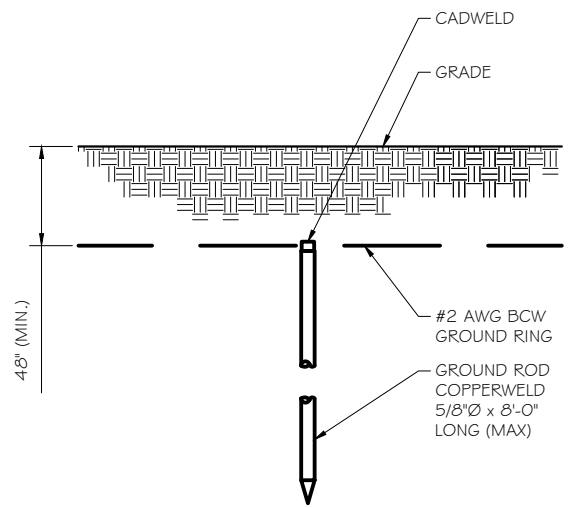
- 1 CONDUIT (TYP)
- 2 BUTTERFLY CLAMP AS REQUIRED
- 3 EXISTING WALL/CEILING
- 4 VERTICAL "UNISTRUT" P1000 T SERIES LENGTH BASED ON NUMBER OF CONDUIT TO BE MOUNTED

WALL CONSTRUCTION TYPE	USE
HOLLOW	3/8" DIA. TOGGLE BOLT
HOLLOW, AT STUD	3/8" DIA. LAG SCREW
CONCRETE BLOCK (HOLLOW)	3/8" DIA. HILTI HY-20 WITH SCREEN, MINIMUM EMBEDMENT 2-1/2"
CONCRETE (SOLID)	3/8" DIA. HILTI HY-150 WITH SCREEN, MINIMUM EMBEDMENT 2-1/2"

NOTE: USE GALVANIZED OR STAINLESS STEEL HARDWARE FOR WALL MOUNT & CONNECTIONS OF CHANNELS SPACE UNITS @ 5'-0" O.C. LENGTH OF RUN



CONDUIT WALL MOUNT
 SCALE: NTS 1

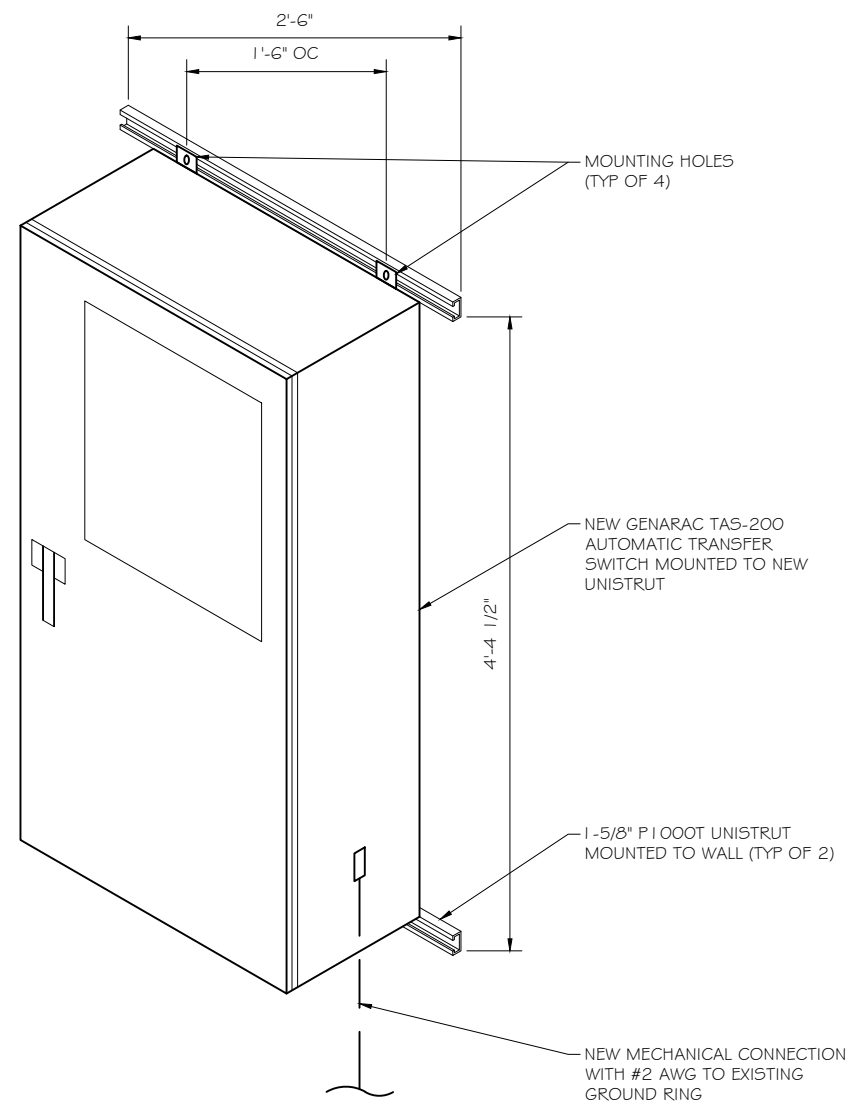


- NOTE:
- GROUND RODS MAY BE:
 - COPPER CLAD STEEL
 - SOLID COPPER
 - GROUND RODS SHALL HAVE A MAXIMUM SPACING TWICE THE LENGTH OF ROD
 - SEE RESISTIVITY REPORT FOR VERIFICATION AS AVAILABLE
 - A LARGER CONDUCTOR SHALL BE REQUIRED IN AREAS HIGHLY PRONE TO LIGHTNING AND/OR AREAS WITH HIGHLY ACIDIC SOIL
 - GROUND RODS INSTALLED WITHIN CLOSE PROXIMITY TO TOWER OR WHEN SOIL IS AT OR BELOW 2,000 OHM-CM, SHALL BE GALVANIZED TO PREVENT GALVANIC CORROSION OF TOWER, (SEE ANSI/TIA-EIA-222-G)
 - PROVIDE (1) GROUND LEAD TO EACH SIDE OF THE GENERATOR

GROUND ROD DETAIL
 SCALE: NTS 2

WALL CONSTRUCTION TYPE	USE
HOLLOW	3/8" DIA. TOGGLE BOLT
HOLLOW, AT STUD	3/8" DIA. LAG SCREW
CONCRETE BLOCK (HOLLOW)	7/16" DIA. HILTI HY-20 WITH SCREEN MINIMUM EMBEDMENT 2-1/2"
CONCRETE (SOLID)	7/16" DIA. HILTI HY-150 WITH SCREEN MINIMUM EMBEDMENT 2-1/2"

- NOTE:
- USE GALVANIZED OR STAINLESS STEEL HARDWARE FOR WALL MOUNT AND CONNECTION OF CHANNELS
 - GC SHALL USE NON-SHRINKING CAULK TO WEATHER SEAL ALL PENETRATIONS INTO OR THROUGH SHELTER WALL



GENERAC ATS MOUNTING DETAIL
 SCALE: NTS 3

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PROJECT TITLE:
FARMINGTON WESTERBERG DRIVE
 FA ID # 10090928

PROJECT INFORMATION:
 1 WESTERBERG DRIVE
 FARMINGTON, CT 06032

SHEET TITLE:
ATS, CONDUIT & GROUND ROD DETAILS

SCALE: NONE

PROJECT NUMBER: 57094
 SHEET NUMBER: E-3

SDC020 | 2.2L | 20 kW
INDUSTRIAL DIESEL GENERATOR SET
 EPA Certified Stationary Emergency



Standby Power Rating
 20 kW, 25 kVA, 60 Hz

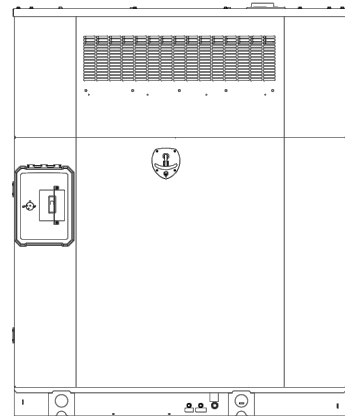


Image used for illustration purposes only



*EPA Certified Prime ratings are not available in the US or its Territories

Codes and Standards

Not all codes and standards apply to all configurations. Contact factory for details.

-   UL2200, UL6200, UL1236, UL489, UL142
-   CSA C22.2, ULC S601
-   BS5514 and DIN 6271
-  SAE J1349
-  NFPA 37, 70, 99, 110
-  NEMA ICS10, MG1, 250, ICS6, AB1
-  ANSI C62.41
-  ISO 3046, 7637, 8528, 9001

Powering Ahead

For over 60 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

SDC020 | 2.2L | 20 kW
INDUSTRIAL DIESEL GENERATOR SET
 EPA Certified Stationary Emergency



STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Air Cleaner
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Engine Coolant Heater

FUEL SYSTEM

- Fuel Lockoff Solenoid
- Primary Fuel Filter

COOLING SYSTEM

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene Glycol Antifreeze

ELECTRICAL SYSTEM

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Permanent Magnet Excitation
- Sealed Bearing
- Rotor Dynamically Spin Balanced
- Amortisseur Winding (3-Phase Only)
- Full Load Capacity Alternator
- Protective Thermal Switch

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood

ENCLOSURE

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material
- Gasketed Doors
- Aluminum Enclosure
- Level 2 Sound Attenuated
- Twist-Lock Handle
- RhinoCoat™ - Textured Polyester Powder Coat Paint

FUEL TANKS (If Selected)

- UL 142/ULC S601
- Double Wall
- Normal and Emergency Vents
- Factory Pressure Tested
- Rupture Basin Alarm
- Fuel Level
- Check Valve In Supply and Return Lines
- RhinoCoat™ - Textured Polyester Powder Coat Paint
- Stainless Steel Hardware

CONTROL SYSTEM



Power Zone® 410 Controller

Features

- Programmable Auto Crank
- Selectable Low Speed Exercise
- RS-232 x2
- RS-485 x2
- 3-Phase Sensing Digital Voltage Regulator
- Time
- Date
- On/Off/Manual Switch
- Not in Auto Flashing Light
- Emergency Stop
- Modbus® RTU

- Remote Ports
- CANbus
- Full Range Standby Operation
- 3-Phase AC Volts
- 3-Phase Amps
- kW
- Power Factor
- Ruptured Tank Detection
- Auxiliary Shutdown Switch
- Remote Communications
- Compatible with NFPA 110, Level 1 or 2 (When Optional Modules Selected)
- Line Power/Gen Power
- I²T Function for Full Generator Protection

Full System Status Display

- Multilingual 128x64 Graphical Display with Heater
- Easy Status View LED Screen
- Full System Status
- Run Hours
- Service Reminders
- Fault History (Alarm Log)
- Oil Pressure
- Oil Temperature (Optional/When Equipped)
- Oil Level (Optional/When Equipped)
- Output for Fuel Level High/Low Warning
- Water Temperature
- Water Level
- Fuel Pressure/Level
- Engine Speed
- Battery Voltage
- Alternator Frequency

Alarms and Warnings

- Common Alarm Output



PREPARED FOR:



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FARMINGTON WESTERBERG DRIVE FA ID # 10090928

PROJECT INFORMATION:
 1 WESTERBERG DRIVE
 FARMINGTON, CT 06032

SHEET TITLE:
GENERAC 20KW GENERATOR SPECIFICATIONS

SCALE: NONE

PROJECT NUMBER	57094
SHEET NUMBER	E-4

GENERAC 20KW GENERATOR SPECIFICATIONS
 SCALE: NTS

SPEC SHEET

1 of 6

SPEC SHEET

2 of 6

SDC020 | 2.2L | 20 kW
INDUSTRIAL DIESEL GENERATOR SET
 EPA Certified Stationary Emergency



CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Oil Heater
- Fluid Containment Pan
- Coolant Heater Isolation Ball Valves

FUEL SYSTEM

- NPT Flexible Fuel Line

ELECTRICAL SYSTEM

- 10A UL Listed Battery Charger
- Battery Warmer

ALTERNATOR SYSTEM

- Anti-Condensation Heater
- Tropical Coating

GENERATOR SET

- Extended Factory Testing
- Pad Vibration Isolators

CIRCUIT BREAKER OPTIONS

- Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

ENCLOSURE

- Up to 190 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
- Door Open Alarm Switch

WARRANTY (Standby Gensets Only)

- 2 Year Extended Limited Warranty
- 5 Year Limited Warranty
- 5 Year Extended Limited Warranty
- 7 Year Extended Limited Warranty
- 10 Year Extended Limited Warranty

CONTROL SYSTEM

- NFPA 110 Compliant 21-Light Remote Annunciator
- Remote Relay Assembly (8 or 16)
- Oil Temperature Indication and Alarm
- Spare Inputs (x4) / Outputs (x4)
- Battery Disconnect Switch
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- 100 dB Alarm Horn
- Ground Fault Annunciation
- 120V GFCI and 240V Outlets
- 10A Engine Run Relay

FUEL TANKS (Size On Last Page)

- Overfill Protection Valve
- Spill Box Return Hose
- 2.5 Gallon Spill Box
- Tank Risers
- Fuel Level Switch and Alarm
- 12' Vent System
- Fire Rated Stainless Steel Fuel Hose

ENGINEERED OPTIONS

GENERATOR SET

- Special Testing

FUEL TANKS

- UL2085 Tank
- Stainless Steel Tanks
- Special Fuel Tanks

SDC020 | 2.2L | 20 kW
INDUSTRIAL DIESEL GENERATOR SET
 EPA Certified Stationary Emergency



APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Perkins
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	4
Type	In-Line
Displacement - in ³ (L)	135 (2.22)
Bore - in (mm)	3.3 (84)
Stroke - in (mm)	3.9 (100)
Compression Ratio	23.3:1
Intake Air Method	Naturally Aspirated
Cylinder Head	Cast Iron
Piston Type	Aluminum
Crankshaft Type	Forged Steel

Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	±0.5%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full-Flow Cartridge
Crankcase Capacity - qt (L)	11.2 (10.6)

Cooling System

Cooling System Type	Pressurized Closed
Water Pump Type	Pre-Lubed, Self Sealing
Fan Type	Puller
Fan Speed - RPM	3,000
Fan Diameter - in (mm)	11 (279)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel
Fuel Specifications	ASTM
Fuel Filtering (Microns)	5
Fuel Inject Pump	Distribution Injection Pump
Fuel Pump Type	Cassette
Injector Type	Indirect, Pintle Nozzle
Fuel Supply Line - in (mm)	0.31 (7.94) ID
Fuel Return Line - in (mm)	0.31 (7.94) ID

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 0161970S8Y
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	K0035124Y26
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5% (3-Phase Only)
Telephone Interference Factor (TIF)	<50

Standard Excitation	Permanent Magnet Excitation
Bearings	Single Sealed
Coupling	Direct via Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%



PREPARED FOR:



CONSULTANT:

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 WESTWOOD, MA 02090

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2	08/17/23	ADDED LEASE AREA DETAILS
1	03/30/23	ADDED STRUCTURAL DETAILS

ISSUE PHASE	FINAL	DATE ISSUED	12/19/2022
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PROJECT TITLE:
FARMINGTON WESTERBERG DRIVE FA ID # 10090928

PROJECT INFORMATION:
 1 WESTERBERG DRIVE
 FARMINGTON, CT 06032

SHEET TITLE:
GENERAC 20KW GENERATOR SPECIFICATIONS

SCALE: NONE

PROJECT NUMBER: 57094
 SHEET NUMBER: E-4.1

SPEC SHEET

3 of 6

GENERAC 20KW GENERATOR SPECIFICATIONS
 SCALE: NTS



SPEC SHEET

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SDC020 | 2.2L | 20 kW
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency



OPERATING DATA

POWER RATINGS

	Standby		
Single-Phase 120/240 VAC @1.0pf	20 kW, 20 kVA	Amps: 83	
Three-Phase 120/208 VAC @0.8pf	20 kW, 25 kVA	Amps: 70	
Three-Phase 120/240 VAC @0.8pf	20 kW, 25 kVA	Amps: 60	
Three-Phase 277/480 VAC @0.8pf	20 kW, 25 kVA	Amps: 30	

MOTOR STARTING CAPABILITIES (skVA)

skVA vs. Voltage Dip					
120/240 VAC 1Ø	30%	277/480 VAC 3Ø	30%	208/240 VAC 3Ø	30%
A0035044N26	50	K0035124Y26	68	K0035124Y26	50

FUEL CONSUMPTION RATES*

Fuel Pump Lift- ft (m)	Diesel - gph (Lph)	
	Percent Load	Standby
3 (1)	25%	0.6 (2.1)
	50%	0.9 (3.5)
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)	75%	1.3 (4.8)
16.6 (63)	100%	1.6 (6.2)

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby
Air Flow (Fan Air Flow Across Radiator) - Compact	cfm (m ³ /min)	1,653 (46.8)
Coolant Flow	gpm (Lpm)	15.5 (58.7)
Coolant System Capacity	gal (L)	4.2 (16.0)
Heat Rejection to Coolant	BTU/hr (kW)	76,090 (22.3)
Inlet Air	cfm (m ³ /min)	1,714 (48.5)
Maximum Operating Ambient Temperature	°F (°C)	120 (50)
Maximum Operating Ambient Temperature (Before Derate)	See Bulletin No. 0199280SSD	
Maximum Additional Radiator Backpressure	in H ₂ O (kPa)	0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power - cfm (m ³ /min)	61.4 (1.7)

ENGINE

	Standby
Rated Engine Speed	RPM 1,800
Horsepower at Rated kW**	hp 32.5
Piston Speed	ft/min (m/min) 1,182 (360)
BMEP	psi (kPa) 105.8 (729.4)

EXHAUST

	Standby
Exhaust Flow (Rated Output)	cfm (m ³ /min) 160.4 (4.5)
Maximum Allowable Backpressure	inHg (kPa) 40.9 (138.5)
Exhaust Temperature (Rated Output)	°F (°C) 950 (510)

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

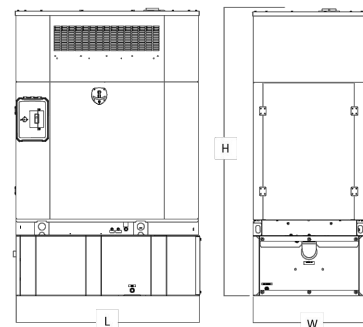
Deration - Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards. Standby - See Bulletin 0187500SSB Prime - See Bulletin 0187510SSB

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DIMENSIONS AND WEIGHTS*



COMPACT VARIANT

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	-	56.0 (1,422) x 34.5 (876) x 68.9 (1,749)	1,465 (664)
31.9	51 (193)	56.0 (1,422) x 34.5 (876) x 87.3 (2,215)	1,914 (868)
64.4	103 (390)	56.0 (1,422) x 34.5 (876) x 99.1 (2,515)	2,090 (948)

SPEC SHEET

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* All measurements are approximate and for estimation purposes only. Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.

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Part No. A0001352184
 Rev. A 04/21/2021

GENERAC 20KW GENERATOR SPECIFICATIONS
 SCALE: NTS



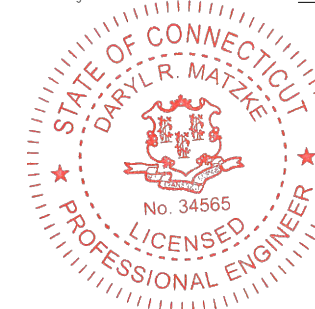
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SPEC SHEET

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TTS Series Switches
200 Amps
600 VAC

GENERAC | **INDUSTRIAL POWER**

TAS200

200A Automatic Transfer Switch

TAS200
TAS200
1 of 3 2 of 3



Image used for illustration purposes only.

The Generac TAS200 Automatic Transfer Switch

- Flexibility for multiple application installations
- Multiple generator support with 3 source panel
- Designed with a 6 inch touch screen controller for improved user interface
- Camlock functionality for mobile generator sources

Features

- **STEEL CONSTRUCTION**
- **NEMA 3R ENCLOSURE WITH HINGED "PADLOCKING" DOORS**
- **STAINLESS STEEL HARDWARE**
- **CAMLOCK "QUICK CONNECT" CAPABILITY**
- **OPERATIONAL STATUS VIEW VIA 6 INCH TOUCH SCREEN**
- **TEST FUNCTION - FAST TEST & NORMAL TEST**
- **UL1008 LISTED - FOR EMERGENCY SYSTEMS**

Optional Features

- **EXTENDED WARRANTY**
- **THREE-PHASE VOLTAGE CONFIGURATIONS**

Codes and Standards

Generac products are designed to the following standards:



UL1008,
UL508,
UL50,
CSA C22.2 No. 178



NEC 700, 701 and 702



NEMA 250

Application and Engineering Data

Cabinet Specifications	
Dimensions	24"W x 12"D x 48"H
Weight	210 lbs.
Construction	Single Chamber with Main Door
	Steel
	UL Type / NEMA 3R Rated
	Powder Coat Finish for Corrosion Resistance
	C-UL-US Listed - Automatic Transfer Switch
	Stainless Steel Hardware
Mounting Options	3-Point Latching System with Pad-Lockable Handles
	Wall
	H-frame
Installed	Pre-wired alarm terminal strip

Electrical Specifications	
Voltage/Phase/Amps	120/240 Single-Phase, 200A 120/208 3-Phase, 200A 120/240 3-Phase, 200A
Breaker	Eaton 200 amp Utility Breaker
	Eaton 200 amp Generator Breaker
Maximum RMS Symmetrical Fault Current - Amps	25k AIC Rated
Protective Device Continuous Rating (Max) Amp	200
Input to Generator	350MCM - #6 AWG
Output to Site	350MCM - #6 AWG
Generator Annunciator Connector	Deutsch DTM04-12PA-L012
Alarm Terminal Board	Generator Run Alarm
	Generator Fail - Shutdown Alarm
	Generator Fail - Non Shutdown Alarm
	Low Fuel Alarm
	Generator Theft Alarm
	AC Utility Fail Alarm

Camlock Component	
Camlock Component	Shipped loose for multiple installation options
Dimensions	9" W x 9.4" D x 24.25" H
200A Camlock Generator Connection	Single-Phase: Black L1, Red L2, White-Neutral, Green-Ground
	3-Phase: Black L1, Red L2, Blue L3, White-Neutral, Green-Ground
	Uses 4 CH E1016 Male Connectors
	Mating Connector - CH E1016 Female

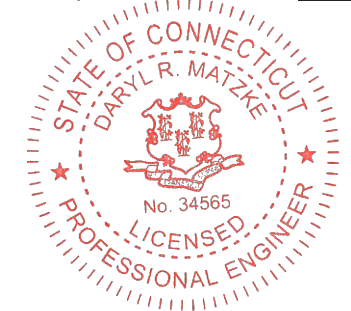


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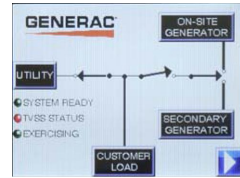
PROJECT NUMBER: 57094
SHEET NUMBER: E-5

TTS Control Systems

TAS200

3 of 3

Touch Screen Interface



INDICATORS AND BUTTONS

- | | |
|---|---|
| <ul style="list-style-type: none"> System Ready indicator Standby Operating indicator Utility Available indicator GEN/UTIL Switch Position indicator TVSS status | <ul style="list-style-type: none"> Normal Test button Fast Test button Return to Normal button Reset button Exercising indicator |
|---|---|

DETAILS SCREEN

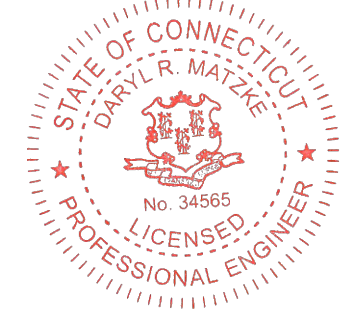
<p>System Settings:</p> <ul style="list-style-type: none"> System Voltage/Phases: <ul style="list-style-type: none"> 120/240V single phase (standard) 120/208V three phase (optional) 120/240V three phase (optional) Utility Fail Monitor: <ul style="list-style-type: none"> Under Voltage: 75-95% of nominal voltage Over Voltage: 105%-125% of nominal voltage Pickup (hysteresis): fixed at 5 volts Delay time: 0-60s Utility Interrupt Delay: 0-60s Return to Utility Timer: 1-30 minutes Transfer: <ul style="list-style-type: none"> In-phase, or Time-Delay-Neutral at 0.0-10.0s in 1 second increments 	<p>Exercise Settings:</p> <ul style="list-style-type: none"> Time of day Day of week Exercise: <ul style="list-style-type: none"> Exercise with/without load Exercise once every 1, 2, or 4 weeks. Exercise time-of-day Exercise day of week Exercise duration: 15-30 minutes
	<p>Screen Settings:</p> <ul style="list-style-type: none"> Brightness & Contrast button Screen Calibration button Startup/Clean screen
	<p>Diagnostics:</p> <ul style="list-style-type: none"> Digital I/O bits status Voltage A/D readings
<p>Engine Settings:</p> <ul style="list-style-type: none"> Engine Warm-up timer: 0-20 minutes Generator Load Accept: <ul style="list-style-type: none"> Time-Delay-Neutral at 0.0-10.0s in 1 second increments Voltage: 85-95% of nominal Frequency: 85-95% of nominal Engine Minimum Run Timer: 5-30 minutes Engine Cooldown Timer: 0-20 minutes 	<p>Mimic Diagram:</p> <ul style="list-style-type: none"> System Ready Transfer switch position Utility available Standby available Maintenance/Auto switch position Generator source TS position TVSS status

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