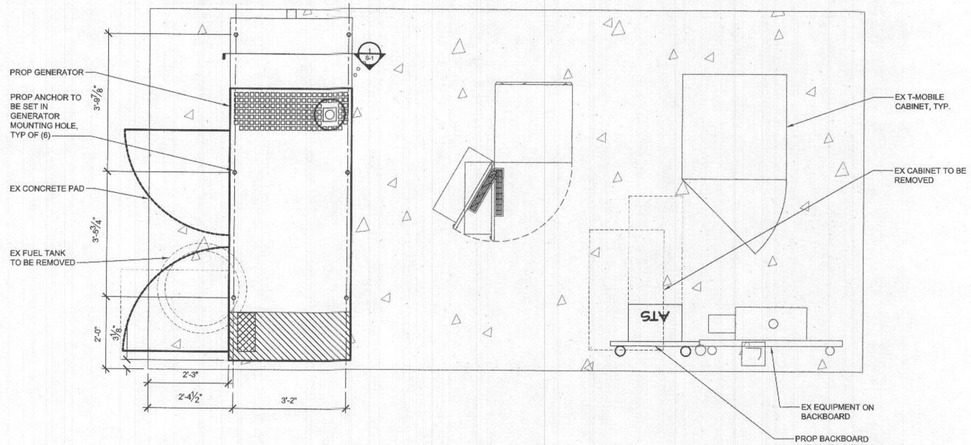
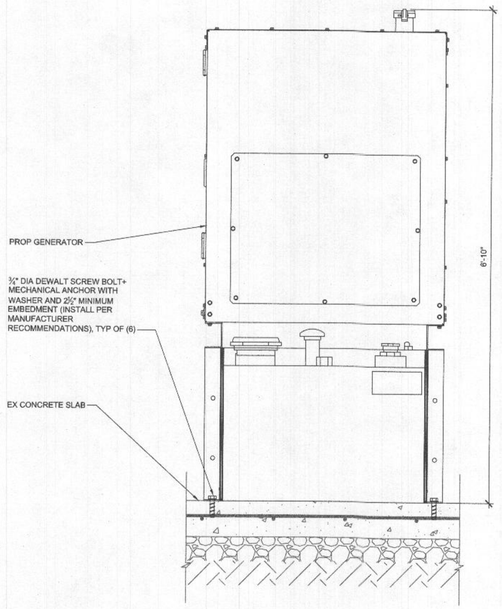


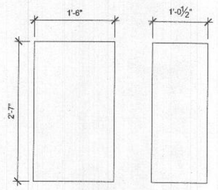
KOHLER 40REOZK DIESEL GENERATOR FOUNDATION SLAB

SCALE: 1/2" = 1'-0"



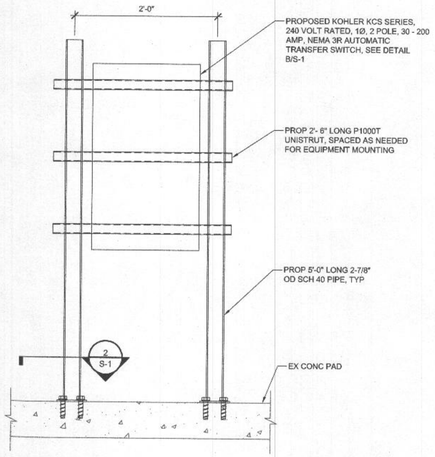
1 / S-1 CONCRETE PAD ELEVATION

SCALE: 1" = 1'-0"



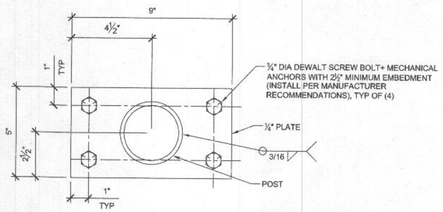
B PROP AUTOMATIC TRANSFER SWITCH

SCALE: 3/4" = 1'-0"



A H-FRAME SECTION

SCALE: 1" = 1'-0"



2 / S-1 TYP H-FRAME POST BASE PLATE

SCALE: 3" = 1'-0"

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SITE NAME:
OLDE HOME FARM - SILO

SITE ADDRESS:
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HOWARD COUNTY

REVISION BLOCK

NO.	DESCRIPTION	DATE
4	FINAL DWGS.	02/25/22
3	GENERATOR REV.	02/23/22
2	FINAL DWGS.	08/19/21

STATE OF MARYLAND
JACOB TORONEY
37729
PROFESSIONAL ENGINEER
3/1/22

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 37729, EXPIRATION DATE: 07/09/2023.

DRAWN BY:	SM
DESIGNED BY:	JT
ORIGINAL DATE:	08/17/2021
MRA PROJECT #:	20473.084
DESIGN SCALE:	AS NOTED

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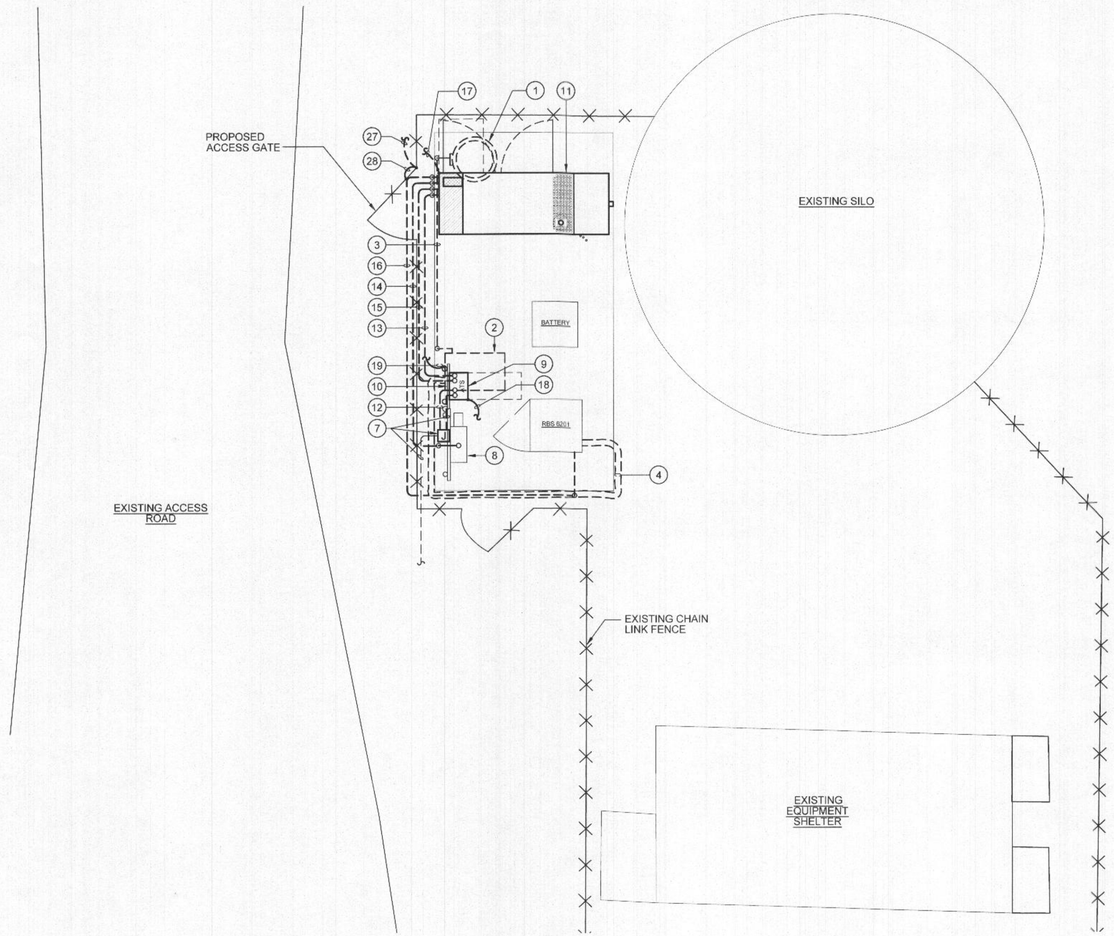
SHEET TITLE

Structural Details

SHEET NUMBER

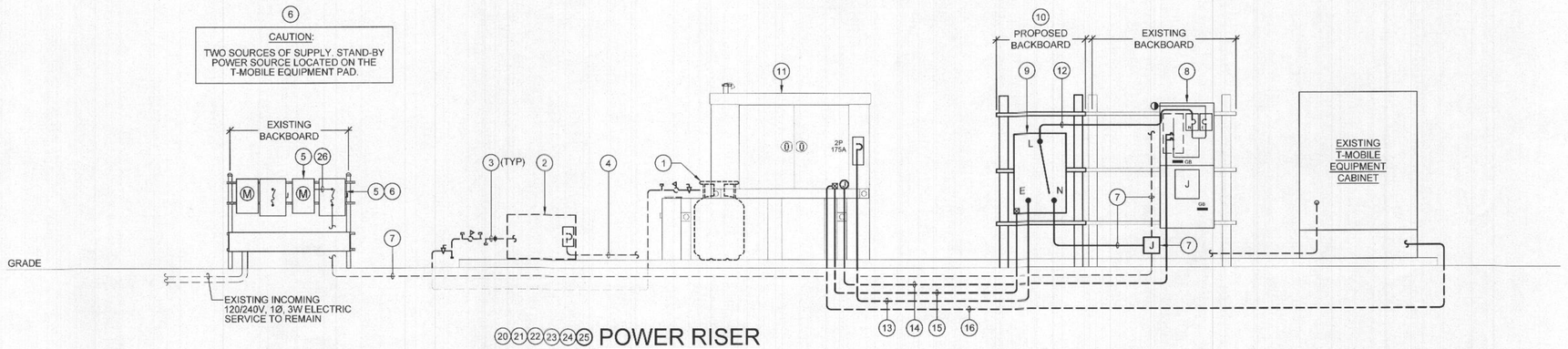
S-1



20 21 22 23 24 25 EQUIPMENT POWER PLAN

SCALE: 1/4" = 1'-0"

NOTE:
THE SITE PLAN IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.



20 21 22 23 24 25 POWER RISER

NO SCALE

DRAWING NOTES

1. CONTRACTOR SHALL REMOVE T-MOBILE PAD MOUNTED PROPANE TANK, AND ALL ASSOCIATED ACCESSORIES.
2. CONTRACTOR SHALL REMOVE T-MOBILE 20 KW PROPANE GENERATOR AND ALL ASSOCIATED ACCESSORIES.
3. CONTRACTOR SHALL REMOVE LP GAS PIPING AND CONDUIT FROM GENERATOR TO PROPANE TANK.
4. CONTRACTOR SHALL REMOVE EXISTING EMERGENCY FEEDER FROM GENERATOR TO EXISTING RBS 6201 CABINET.
5. EXISTING T-MOBILE UTILITY METER AND 240V SERVICE ENTRANCE RATED 2P200A FUSED SERVICE DISCONNECT SWITCH (FUSED AT 200A) MOUNTED ON EXISTING ELECTRIC SERVICE BACKBOARD TO REMAIN (NOT SHOWN).
6. PROVIDE CAUTION TWO SOURCES OF SUPPLY STICKER ON SERVICE DISCONNECT SWITCH. BACKGROUND SHALL BE YELLOW WITH BLACK BLOCK STYLE LETTERING. REFER TO DETAIL, THIS SHEET.
7. EXISTING 3#3/0 + #6 GRD - 2" CONDUIT BELOW GRADE FROM EXISTING SERVICE DISCONNECT SWITCH TO EXISTING T-MOBILE POWER CABINET. CONTRACTOR SHALL PROVIDE WEATHERPROOF JUNCTION BOX (SIZED PER NEC) TO INTERCEPT EXISTING FEEDER AND EXTEND TO "NORMAL" LUGS IN ATS. THIS WILL BECOME THE "NORMAL" POWER FEED. COORDINATE EXACT ROUTING OF EXISTING FEEDER WITH T-MOBILE REPRESENTATIVE IN THE FIELD. REMOVE PORTIONS OF EXISTING FEEDER NOT USED AS REQUIRED.
8. EXISTING T-MOBILE 120/240V, 1Ø, 3W, 200A MCB POWER CABINET MOUNTED ON EXISTING BACKBOARD. REFER TO PANEL SCHEDULE, SHEET E-2 FOR ADDITIONAL INFORMATION.
9. PROVIDE AND INSTALL KOHLER KCS SERIES, 240 VOLT, RATED, 1Ø, 2 POLE, 200 AMP NEMA 3R AUTOMATIC TRANSFER SWITCH MOUNTED ON PROPOSED BACKBOARD. WHEN DRILLING INTO ATS, CONTACTS SHALL BE COVERED TO AVOID METALLIC SHAVINGS DROPPING INTO ATS CONTACTS. AFTER DRILLING, CONTRACTOR SHALL VACUUM INSIDE OF ATS. COORDINATE FINAL MOUNTING LOCATION WITH T-MOBILE REPRESENTATIVE.
10. PROPOSED BACKBOARD FOR MOUNTING PROPOSED T-MOBILE AUTOMATIC TRANSFER SWITCH. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
11. PROPOSED T-MOBILE 120/240V, 1Ø, 3W, 40 KW DIESEL GENERATOR MOUNTED ON EXISTING EQUIPMENT PAD. COORDINATE ALL GENERATOR REQUIREMENTS WITH EQUIPMENT MANUFACTURER AND T-MOBILE REPRESENTATIVE PRIOR TO START OF WORK. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON GENERATOR PLATFORM.
12. EXTEND 3#3/0 + #6 GRD - 2" CONDUIT (LOAD FEEDER). COORDINATE EXACT ROUTING WITH T-MOBILE REPRESENTATIVE IN THE FIELD.
13. EXTEND 3#3/0 + #6 GRD - 2" CONDUIT BELOW GRADE (EMERGENCY FEEDER). COORDINATE EXACT ROUTING WITH T-MOBILE REPRESENTATIVE IN THE FIELD.
14. EXTEND 2#12 AWG + #12 GRD (BATTERY CHARGER) AND 2#12 AWG + #12 GRD (BLOCK HEATER) IN 3/4" CONDUIT BELOW GRADE TO TWO (2), 1 POLE, 20 AMP BREAKERS IN T-MOBILE PANEL.
15. EXTEND CAT 5 ALARM CABLES IN ONE (1) - 1" CONDUIT BELOW GRADE FROM AUTOMATIC TRANSFER SWITCH TO GENERATOR FOR GENERATOR CONTROLS AND ALARMING (GENERATOR FAULT/TROUBLE, GENERATOR LOW FUEL AND GENERATOR RUN). COORDINATE ALL REQUIREMENTS WITH GENERATOR MANUFACTURER AND T-MOBILE REPRESENTATIVE PRIOR TO START OF WORK.
16. EXTEND CAT 5 ALARM CABLES IN ONE (1) - 1" CONDUIT BELOW GRADE FROM GENERATOR TO EXISTING T-MOBILE 6201 EQUIPMENT CABINET FOR GENERATOR CONTROLS AND ALARMING (GENERATOR LOW FUEL AND GENERATOR RUN). COORDINATE ALL REQUIREMENTS WITH GENERATOR MANUFACTURER AND T-MOBILE REPRESENTATIVE PRIOR TO START OF WORK. TURN CONDUIT UP AT EXISTING T-MOBILE EQUIPMENT PLATFORM, TRANSITION TO SEALTIGHT, AND CONTINUE TO EXISTING T-MOBILE 6201 EQUIPMENT CABINET.
17. EXTEND 1#2 AWG, BARE, TINNED, SOLID COPPER GROUND CONDUCTOR FROM T-MOBILE BURIED GROUND ROD AND BOND TO INTERIOR FRAME OF GENERATOR PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ALL GENERATOR GROUNDING REQUIREMENTS WITH EQUIPMENT MANUFACTURER AND T-MOBILE REPRESENTATIVE PRIOR TO START OF WORK.
18. EXTEND 1#2 AWG, BARE, TINNED, SOLID COPPER GROUND CONDUCTOR FROM NEAREST EXISTING BURIED GROUND ROD AND BOND TO AUTOMATIC TRANSFER SWITCH.
19. EXTEND 1#2 AWG, BARE, TINNED, SOLID COPPER CONDUCTOR FROM NEAREST EXISTING T-MOBILE BURIED GROUND ROD AND BOND TO AUTOMATIC TRANSFER SWITCH H-FRAME.
20. ALL CONDUITS BELOW GRADE SHALL BE SCHEDULE 40 PVC. ALL CONDUITS ABOVE GRADE AND/OR EXPOSED TO WEATHER SHALL BE SEALTIGHT / RIGID GALVANIZED STEEL.
21. ALL UNISTRUT SHALL BE STAINLESS STEEL. HARDWARE SHALL BE HOT DIPPED GALVANIZED.
22. CONDUIT ROUTING IS DIAGRAMMATIC, EXACT CONDUIT ROUTE SHALL BE COORDINATED WITH T-MOBILE REPRESENTATIVE IN THE FIELD.
23. COORDINATE ALL UNDERGROUND SERVICES WITH MISS UTILITY 48 HOURS PRIOR TO DIGGING. CONTRACTOR SHALL HAND-DIG WITHIN 5'-0" OF ALL UNDERGROUND SERVICES.
24. REFER TO DRAWING PREPARED BY MRA FOR SITE PLAN.
25. THE SPECIFIED STAND-BY USE GENERATOR IS NOT A SEPARATELY DERIVED SYSTEM. THE CONTRACTOR SHALL VERIFY THAT THE AUTOMATIC TRANSFER SWITCH DOES NOT SWITCH THE NEUTRAL CONDUCTOR. IF THE MANUFACTURER INSTALLED A MAIN BONDING JUMPER IN THE GENERATOR, THE CONTRACTOR SHALL DISCONNECT AND REMOVE THE JUMPER TO PREVENT VIOLATING NEC ARTICLE 250.6, OBJECTIONABLE CURRENT OVER GROUNDING CONDUCTORS.
26. EXISTING 3#3/0 - 2" CONDUIT TO REMAIN.
27. EXTEND 1#2 AWG, BARE, TINNED, SOLID COPPER GROUND CONDUCTOR FROM NEAREST EXISTING T-MOBILE BURIED GROUND ROD AND BOND TO NEW METALLIC FENCE POST.
28. PROVIDE FLEXIBLE GROUND STRAP (T & B SERIES) CONNECTING METALLIC GATE FRAME TO ADJACENT METALLIC FENCE POST. REFER TO DETAIL, SHEET E-3.

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0 1 2 3 4 8 12

SCALE:1/4"=1'-0"

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WOODBINE, MD 21797
LAT. N 39.294559° LONG. W -77.046101°
HOWARD COUNTY

REVISION BLOCK

NO.	DESCRIPTION	DATE
4	FINAL DWGS.	02/25/22
3	GENERATOR REV	02/23/22
2	FINAL DWGS.	08/19/21
1	REVIEW DWGS	08/18/21

STATE OF MARYLAND TIMOTHY G. SMIDT No. 21585 REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, TIMOTHY SMIDT, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21585, EXPIRATION DATE: MAY 8, 2023.

DRAWN BY:	RFS
DESIGNED BY:	WGJ/RFS
ORIGINAL DATE:	08/18/2021
TEI PROJECT #:	21100D
DESIGN SCALE:	AS NOTED

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THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERE TO APPURTENANT.

SHEET TITLE
EQUIPMENT POWER PLANS, POWER RISER, AND NOTES

SHEET NUMBER
E-1

TEI#21100D

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q

(EXISTING)

PANEL PP ①

120/240 VOLTS 1Ø 3 WIRE 200 AMP MCB

DESCRIPTION	BKR	CKT	CKT	BKR	DESCRIPTION
SURGE	60	1	2	20	GFCI
		3	4	20	GENERATOR BATTERY CHARGER ②
RBS 6201	60	5	6	20	GENERATOR BLOCK HEATER ②
		7	8	-	SPACE
LIGHT	20	9	10	-	SPACE
SPACE	-	11	12	-	SPACE
SPACE	-	13	14	-	SPACE
SPACE	-	15	16	-	SPACE
SPACE	-	17	18	-	SPACE
SPACE	-	19	20	-	SPACE
SPACE	-	21	22	-	SPACE
SPACE	-	23	24	-	SPACE

LOAD CALCULATION:
EXISTING LOAD = 7.18 KVA x 125% = 8.98 KVA
PROPOSED EQUIPMENT LOAD= 1.7 KVA
TOTAL: 10.68 KVA

TOTAL LOAD: 10.68 KVA = 44.50 AMPS @ 120/240V, 1Ø

* PANELBOARD FEEDERS ARE SIZED FOR MAIN OVERCURRENT DEVICE PER N.E.C. ARTICLE 215-2
** ALL LOADS ARE BASED UPON N.E.C. ARTICLE 220

NOTES:

① CONTRACTOR SHALL PROVIDE UPDATED, TYPED PANEL DIRECTORY WITH RESPECTIVE CIRCUIT NAMES AFTER PROJECT COMPLETION, PER N.E.C. ARTICLE 408.4.

② CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKERS AS SHOWN IN AVAILABLE SPACE IN EXISTING PANEL. NEW CIRCUIT BREAKERS SHALL MATCH EXISTING IN STYLE, TYPE, AND A.I.C. RATING.

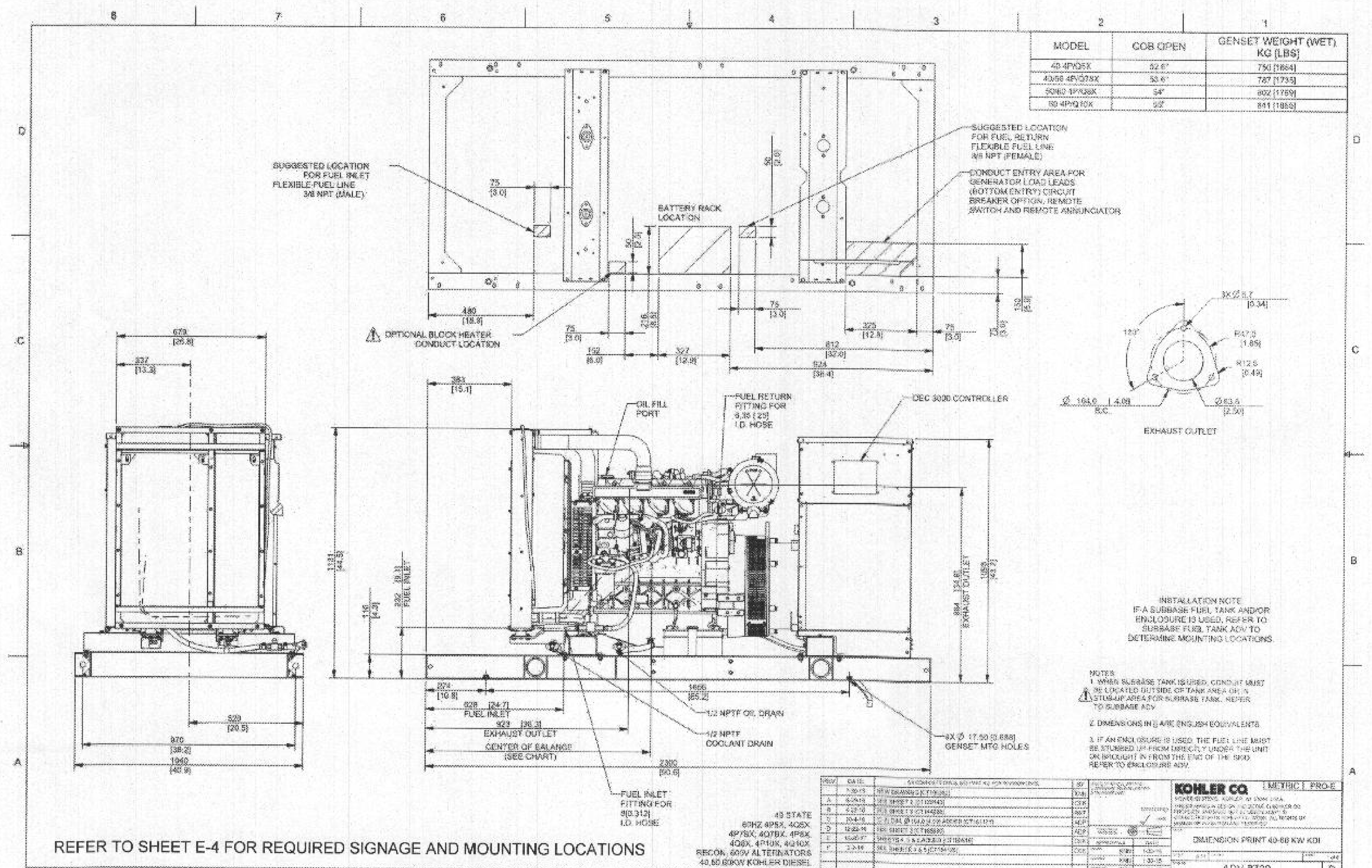
ELECTRICAL SYMBOLS LIST

NOTE: ALL MOUNTING HEIGHTS ARE TO CENTER LINE OF THE OUTLET BOX UNLESS OTHERWISE INDICATED.

Symbol	Description
F	DISCONNECT SWITCH - FUSED/NON FUSED
	120/240V PANELBOARD
	EQUIPMENT MOUNTING BACKBOARD
5	DRAWING NOTE
— — E — —	BURIED ELECTRIC FEEDERS
— — — —	BURIED BRANCH CIRCUIT
M	METER
	GROUND CONDUCTOR BELOW GRADE
R	BURIED GROUND ROD

ABBREVIATIONS

AFF	- ABOVE FINISHED FLOOR	MTD	- MOUNTED
ATS	- AUTOMATIC TRANSFER SWITCH	UG	- UNDERGROUND
C, CDT	- CONDUIT	V	- VOLTS
DN	- DOWN	W/	- WITH
GRD	- GROUND	WP	- WEATHERPROOF
MH	- MOUNTING HEIGHT		



REFER TO SHEET E-4 FOR REQUIRED SIGNAGE AND MOUNTING LOCATIONS

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

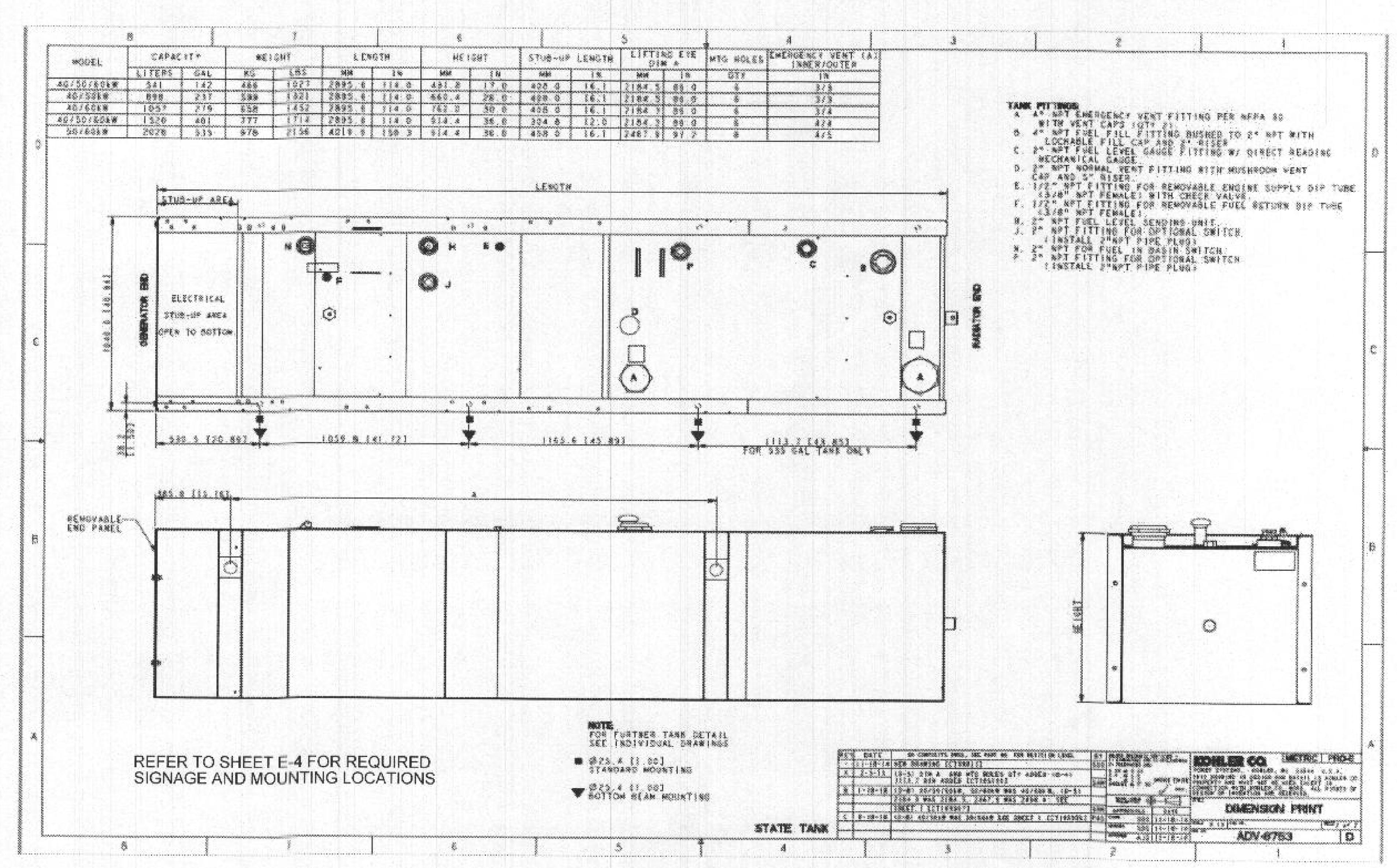
Evolution Controller Customer Connections	Ericsson Alarm BoxConnections	T-Mobile Standard Alarms
NC#8- Gen. Running	NC - A5	Generator Running
NC#11-Not In Auto	NC - A6	Generator Alarm Critical
NC#2-Door Alarm	NC - A7	Generator Alarm NSI
NC#5-Low Fuel	NC - A8	Low Fuel
RXSC200A3-Auxiliary Contacts	NC - A9	ATS in Emergency Position

NOTE:

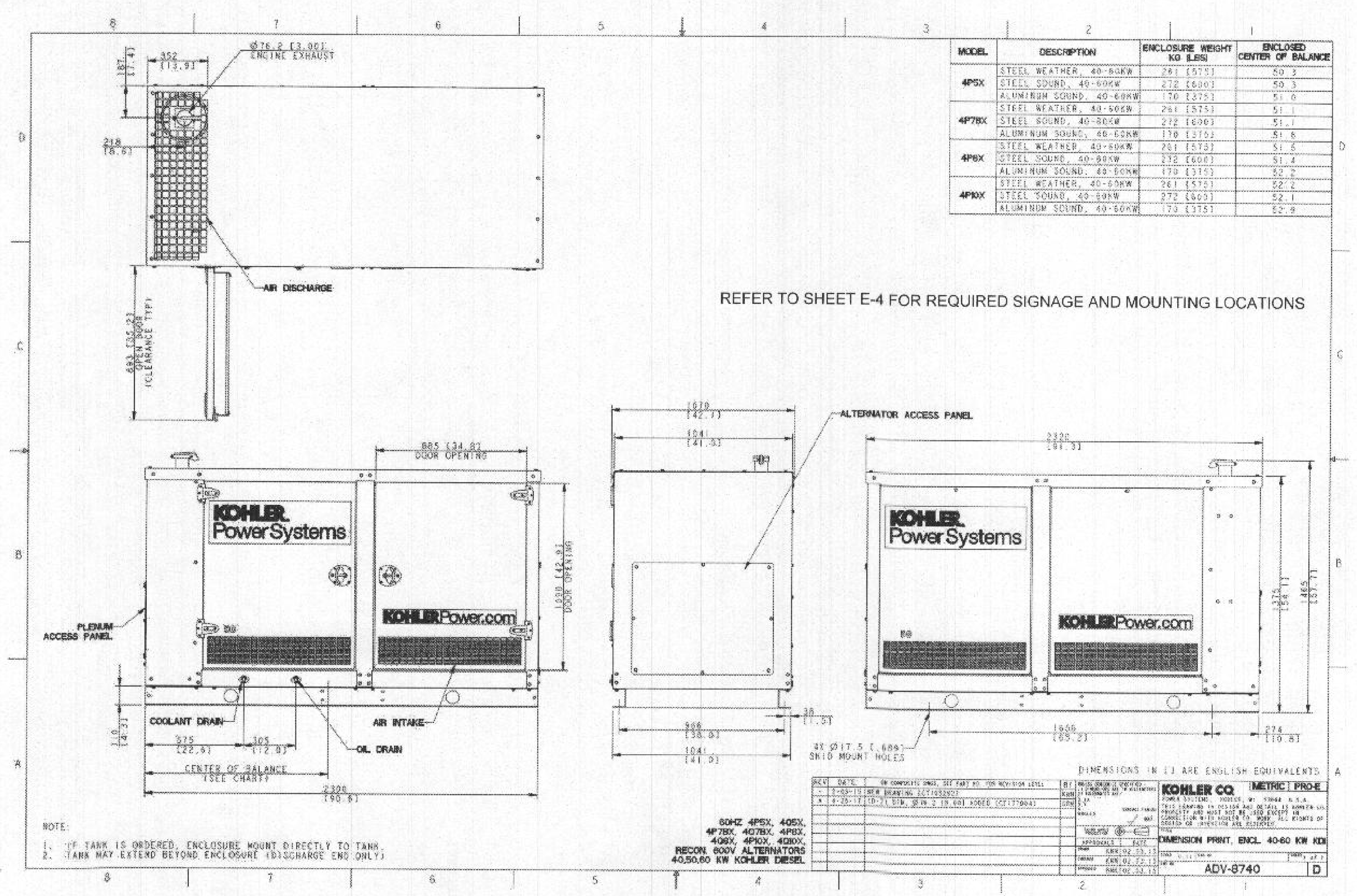
1 CONTRACTOR SHALL EXTEND PAIR OF ALARM CONDUCTORS FROM OUTER TANK LEAK DETECTOR TO DOMINANT MACRO CABINET ON SITE (6201 OR 6160). CONDUCTORS SHALL TERMINATE ON ALARMS TERMINALS TO ALERT NOC IN THE EVENT OF A FUEL TANK LEAK.

DETAIL - GENERATOR ALARMS

NO SCALE



REFER TO SHEET E-4 FOR REQUIRED SIGNAGE AND MOUNTING LOCATIONS



REFER TO SHEET E-4 FOR REQUIRED SIGNAGE AND MOUNTING LOCATIONS

DETAIL - KOHLER 40 KW DIESEL GENERATOR

NO SCALE

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DRAWN BY:	RFS
DESIGNED BY:	WGJ/RFS
ORIGINAL DATE:	08/18/2021
TEI PROJECT #:	21100D
DESIGN SCALE:	AS NOTED

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SHEET TITLE

ELECTRICAL SYMBOLS LIST, DETAILS, AND SCHEDULE

SHEET NUMBER

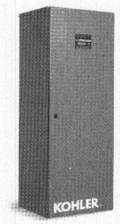
E-2

TEI#21100D

KOHLER. **Model KCS/KCP/KCC**

Automatic Transfer Switches
Standard Any Breaker Rated

9001 KOHLER. NATIONALLY REGISTERED



Available Controllers

- Decision-Maker® MPAC 1200
- Decision-Maker® MPAC 1500

Ratings

Model	Current	Voltage, Frequency
KCS	30- 4000 amps	208- 600 VAC 50/60 Hz
KCP	150- 4000 amps	
KCC	150- 4000 amps	

Transfer Switch Standard Features

- UL 1008 listed file # E58962 (automatic), # E86894 (nonautomatic)
- CSA certification available
- IBC and OSHPD seismic certification available
- Available in 2, 3, or 4 pole configurations
- Electrically operated, mechanically held mechanism
- High withstand and close-on ratings
- Design suitable for emergency and standby applications on all classes of load, 100% tungsten rated through 400 amps
- Silver alloy main contacts
- Gold-flashed engine start contacts rated 2 amps @ 30 VDC/250 VAC
- Front-accessible contacts for easy inspection
- Front-replaceable main and arcing contacts (800- 4000 amps)
- Reliable, field-proven solenoid mechanism
- Switching mechanisms lubricated for the expected life of the transfer switch
- Internal manual operating handle
- Main shaft auxiliary position-indicating contacts rated 10 amps @ 32 VDC/250 VAC
- NEMA type 1, 12, 3R, 4, and 4X enclosures available
- Standard one-year limited warranty. Extended limited warranties are available.

Standard-Transition Models (KCS)

- Standard-transition operation with either automatic or non-automatic control
- Standard-transition transfer time less than 100 milliseconds (6 cycles @ 60 Hz)
- Double-throw, mechanically interlocked design (break-before-make power contacts)
- Solid, switched, or overlapping (make-before-break) neutral

Programmed-Transition Models (KCP)

- Programmed-transition operation with either automatic or non-automatic control
- Programmed-transition operation provides a center OFF position that allows residual voltages in the load circuits to decay
- Programmable OFF time
- Double-throw, mechanically interlocked design (break-before-make power contacts)
- Solid or switched neutral

Closed-Transition Models (KCC)

- Closed-transition transfer switches operate with no power interruption during transfer and retransfer between two live sources
- Source parallel times are less than 100 milliseconds (6 cycles @ 60 Hz)
- Adjustable extended transfer time relay (ensure that the setting complies with applicable codes)
- Solid or switched neutral

Available Automatic Transfer Switch Controllers

Select one of the following controllers for your automatic transfer switch.

Decision-Maker® MPAC 1200 Controller

- LCD display, 4 lines x 20 characters, backlit
- Complete programming and viewing capability at the door using the keypad and LCD display
- LED indicators: Source available, transfer switch position, service required (fault), and "not in auto"
- Programmable voltage and frequency pickup and dropout settings
- Programmable time delays
- Programmable generator exerciser
- Time-based load control
- Two programmable inputs and two programmable outputs
- Up to four I/O extension modules available
- Modbus communication standard
- RS-485 communication standard
- Ethernet communication optional

For more information about Decision-Maker® MPAC 1200 features and functions, see specification sheet G11- 127.

Decision-Maker® MPAC 1500 Controller

- LCD display, 4 lines x 20 characters, backlit
- Complete programming and viewing capability at the door using the keypad and LCD display
- LED indicators: Source available, transfer switch position, service required (fault), and "not in auto"
- Programmable voltage and frequency pickup and dropout settings
- Programmable time delays
- Programmable generator exerciser
- Time-based load control
- Current-based load control (current-sensing kit required)
- Two programmable inputs and two programmable outputs
- Up to four I/O extension modules available
- Modbus communication standard
- RS-485 communication standard
- Ethernet communication standard
- Three-source system
- Prime power

For more information about Decision-Maker® MPAC 1500 features and functions, see specification sheet G11- 128.

Weights and Dimensions

Note: Always use the transfer switch dimension drawing for planning and installation. Weights and dimensions may vary for different configurations. See your local distributor for dimension drawings.

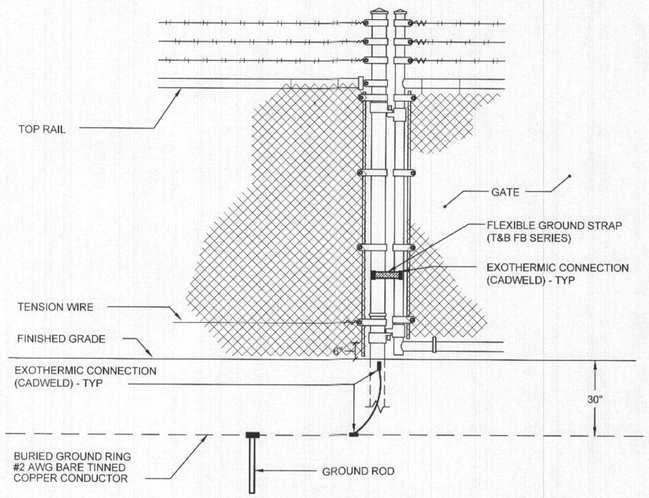
Weights and dimensions are shown for NEMA Type 1 enclosures, NEMA Type 3R enclosures and open units. Consult the factory for other enclosures.

Model	Amps	NEMA Type	Poles	Wires	Dimensions mm (in.) Height	Width	Depth	Weight kg (lb.) 2-Pole	3-Pole	4-Pole	Dimension Drawing
KCS	30- 200	1, 3R	2,3,4	3, 4	791 (31)	450 (18)	514 (12.4)‡	28 (62)	30 (65)	31 (68)	ADV-8566
	230 (208- 480V)		2,3,4	3, 4	1223 (48)	560 (22)	362 (14.3)‡	52 (115)	56 (123)	59 (131)	ADV-8568
	230 (600 V) 260- 600		2,3,4	3, 4	1702 (67)	610 (24)	514 (20.2)‡	179 (395)	183 (403)	188 (414)	ADV-8570
	800		2,3,4	3, 4	1932 (76)*	864 (34)	515 (20.3)‡	220 (485)	231 (510)	238 (525)	ADV-8572
	1000		3,4	4	1932 (76)*	864 (34)	515 (20.3)‡	—	231 (510)	238 (525)	ADV-8572
	1200	1	3,4	4	2286 (90)	963 (36)	688 (27.1)	—	356 (785)	379 (835)	ADV-8574
		3R	3,4	4	2286 (90)	940 (37)	717 (28.2)	—	356 (785)	379 (835)	ADV-8575
	1600- 2000F †	1	3,4	4	2286 (90)	963 (38)	688 (27.1)	—	472(1040)	494 (1090)	ADV-8577
		3R	3,4	4	2286 (90)	940 (37)	869 (34.2)	—	356 (785)	379 (835)	ADV-8578
	1600- 2000	1	3,4	4	2286 (90)	963 (38)	1220 (48)	—	472(1040)	494 (1090)	ADV-8579
		3R	3,4	4	2286 (90)	940 (37)	1434 (56.4)	—	472(1040)	494 (1090)	ADV-8580
	2600- 3000	1	3,4	4	2286 (90)	963 (38)	1524 (60)	—	649(1430)	679(1495)	ADV-8581
		3R	3,4	4	2286 (90)	940 (37)	1738 (68.4)	—	649(1430)	679(1495)	ADV-8582
	4000	1	3,4	4	2311 (91)	1524 (60)	1836 (72.3)	—	975(2149)	1056(2328)	ADV-8583
		3R	3,4	4	2529 (100)	1606 (63)	2310 (91)	—	1436(3165)	1523(3357)	
KCS	30- 200	Open Unit §	2,3,4	3, 4	787 (31)	445 (18)	296 (11.6)	8 (17)	9 (20)	11 (23)	ADV-7182
	230 (208- 480V)		2,3,4	3, 4	1219 (48)	457 (18)	330 (13.0)	17 (37)	21 (45)	24 (53)	
	230 (600V) 260- 600		2,3,4	3, 4	1422 (56)	610 (24)	362 (14.3)	31 (68)	34 (74)	36 (80)	
	800		2,3,4	3, 4	1829 (72)	864 (34)	508 (20)	68 (150)	78 (170)	90 (196)	
	1000		3,4	4	1829 (72)	864 (34)	508 (20)	—	78 (170)	90 (196)	
	1200		3,4	4	2210 (87)	965 (38)	584 (23)	—	78 (170)	90 (196)	
	1600- 2000F †		3,4	4	2210 (87)	965 (38)	635 (25)	—	190 (420)	213 (470)	
	1600- 2000		3,4	4	2286 (90)	965 (38)	1219 (48)	—	190 (420)	213 (470)	
	2600- 3000		3,4	4	2286 (90)	965 (38)	1524 (60)	—	213 (470)	243 (535)	
KCP KCC	150- 600	1, 3R	2,3,4	3, 4	1702 (67)	610 (24)	514 (20.2)‡	179 (395)	183 (403)	188 (414)	ADV-8570
	800	1, 3R	2,3,4	3, 4	1932 (76)*	864 (34)	515 (20.3)‡	220 (485)	231 (510)	238 (525)	ADV-8572
	1000	1, 3R	2,3,4	4	1932 (76)*	864 (34)	515 (20.3)‡	220 (485)	231 (510)	238 (525)	ADV-8572
	1200	1	3,4	4	2286 (90)	963 (38)	688 (27)	—	463(1020)	485(1070)	ADV-8574
		3R	3,4	4	2286 (90)	940 (37)	717 (28.2)	—	463(1020)	485(1070)	ADV-8575
	1600- 2000F †	1	3,4	4	2286 (90)	963 (38)	688 (27)	—	533(1175)	556(1225)	ADV-8577
		3R	3,4	4	2286 (90)	940 (37)	869 (34.2)	—	533(1175)	556(1225)	ADV-8578
	1600- 2000	1	3,4	4	2286 (90)	963 (38)	1220 (48)	—	533(1175)	556(1225)	ADV-8579
		3R	3,4	4	2286 (90)	940 (37)	1434 (56.4)	—	533(1175)	556(1225)	ADV-8580
	3000	1	3,4	4	2286 (90)	963 (38)	1524 (60)	—	735(1620)	765(1685)	ADV-8581
		3R	3,4	4	2286 (90)	940 (37)	1738 (68.4)	—	735(1620)	765(1685)	ADV-8582
	4000	1	3,4	4	2311 (91)	1524 (60)	1836 (72.3)	—	975(2149)	1056(2328)	ADV-8583
		3R	3,4	4	2528 (100)	1606 (63)	2310 (91)	—	1436(3165)	1523(3357)	ADV-8583
KCP	150- 600	Open Unit §	2,3,4	3, 4	1422 (56)	610 (24)	362 (14.3)	38 (84)	41 (90)	44 (96)	ADV-7182
	800		2,3,4	3, 4	1829 (72)	864 (34)	508 (20)	80 (175)	94 (205)	108 (235)	
	1000		2,3,4	4	1829 (72)	864 (34)	508 (20)	80 (175)	94 (205)	108 (235)	
	1200		2,3,4	4	2210 (87)	965 (38)	584 (23)	80 (175)	94 (205)	108 (235)	
	1600- 2000F †		3,4	4	2210 (87)	963 (38)	635 (25)	—	252 (555)	274 (605)	
	1600- 2000		3,4	4	2286 (90)	965 (38)	1219 (48)	—	252 (555)	274 (605)	
	2600- 3000		3,4	4	2286 (90)	965 (38)	1524 (60)	—	300 (660)	329 (725)	
	2600- 3000		3,4	4	2286 (90)	965 (38)	1524 (60)	—	300 (660)	329 (725)	

* Includes mounting feet
† F = Front connected
‡ On 30- 1000 amp models, the NEMA type 3R enclosures have a security cover on the controller that extends 54 mm (2.1 in.) beyond the door.
§ Dimensions shown for open units are the minimum required enclosure size. Open unit weights are shipping weights for the contactor only.

DETAIL - KOHLER KCS AUTOMATIC TRANSFER SWITCH

NO SCALE



DETAIL - GATE GROUNDING

NO SCALE

NOTE: CONTRACTOR SHALL SEAL ALL OPEN ENDS ON FENCE/GATE POST TO AVOID BEES NESTING.

RECEIVED
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LICENSES & PERMITS DIVISION

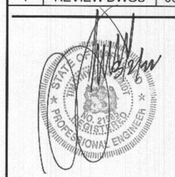
T-Mobile
T-MOBILE NORTHEAST LLC
12050 BALTIMORE AVENUE
BELTSVILLE, MARYLAND 20705
OFFICE: (240) 264-8500
FAX: (240) 264-8610

TEI
TELCENT ENGINEERING INC
2216 Commerce Road, Suite 1
Forest Hill, MD 21050
410-692-5816
www.tei-eng.com

SITE ID:
7BAN581A
SITE NAME:
OLDE HOME FARM - SILO
ADDRESS:
15298 UNION CHAPEL ROAD
WOODBINE, MD 21797
LAT. N 39.294559° LONG. W -77.046101°
HOWARD COUNTY

REVISION BLOCK

NO.	DESCRIPTION	DATE
4	FINAL DWGS.	02/25/22
3	GENERATOR REV	02/23/22
2	FINAL DWGS.	08/19/21
1	REVIEW DWGS	08/18/21



PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, TIMOTHY SMIDT, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21585, EXPIRATION DATE: MAY 8, 2023.

DRAWN BY:	RFS
DESIGNED BY:	WGJ/RFS
ORIGINAL DATE:	08/18/2021
TEI PROJECT #:	21100D
DESIGN SCALE:	AS NOTED

811
Know what's **below.**
Call before you dig.
PROTECT YOURSELF, ONE THREE WORKING DAYS NOTICE
THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERE TO APPURTENANT.

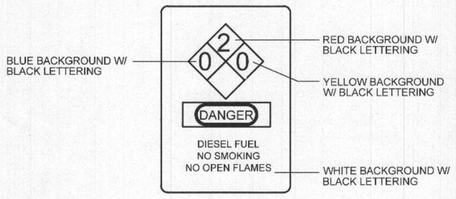
SHEET TITLE

DETAILS

SHEET NUMBER

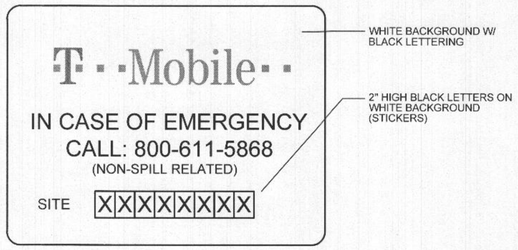
E-3

TEI#21100D



① DANGER - DIESEL FUEL

9¾" WIDE X 14" HIGH



② T-MOBILE-SITE ID SIGN

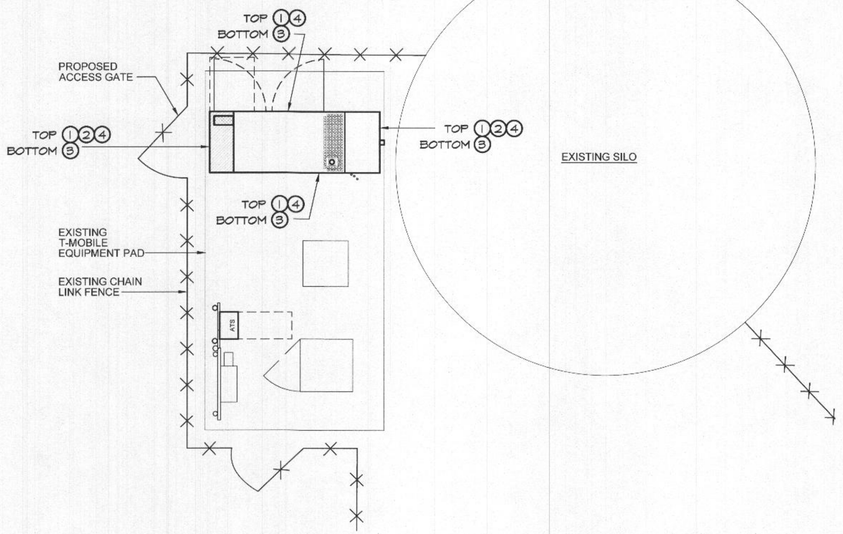
20" HIGH X 14" WIDE

③ FUEL TANK SIGN

30" WIDE X 12" HIGH

④ EMERGENCY RESPONSE SIGN

8" WIDE X 4" HIGH



SIGN KEY PLAN

SCALE: 1/4" = 1'-0"

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MAR 09 2022
LICENSES & PERMITS DIVISION

0 1 2 3 4 8 12

SCALE:1/4"=1'-0"

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SHEET TITLE

SITE SIGNAGE

SHEET NUMBER

E-4

TEI#21100D