

SCF Generators

Q House

225 Eagle St Anchorage, Alaska

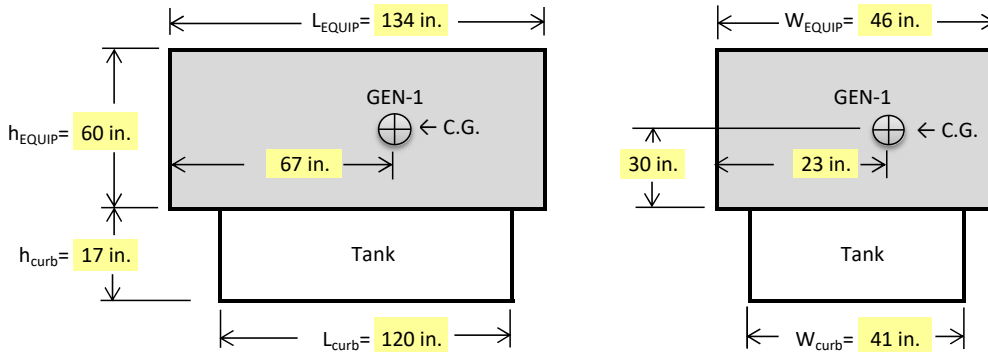
RM Project 402021.071

September 24, 2021

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Anchorage, AK 99503
Office: (907) 562-3439
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Equipment Tag: **GEN-1**

GEN-1 Attachment Forces - (ASCE 7-16)



GEN-1 weight= **3053 lbs** Tank + Fuel Weight= **2839 lbs**
 (including enclosure)

Seismic $a_p = 1.0$ $R_p = 2.5$ $S_{DS} = 1.2$ $I_p = 1.5$ $Z = 0$ ft $h = 1$ ft

(ASCE 7-16) $W_p = 5892$ lbs
 $F_p = (0.4 \times a_p \times S_{DS} \times W_p / (R_p / I_p)) \times (1 + 2(z/h)) = 1697$ lbs LRFD (eqn 13.3-1)
 $F_{p \max} = 1.6 \times S_{DS} \times I_p \times W_p = 16968$ lbs LRFD (eqn 13.3-2)
 $F_{p \min} = 0.3 \times S_{DS} \times I_p \times W_p = 3181$ lbs LRFD (eqn 13.3-3)
 $F_p = 3181$ lbs LRFD

LRFD Net Overturning Moments ($M_{ovt} - M_{rest}$) $(0.9 - 0.2S_{DS})D + E$
 Equipment to Curb: 48981 lbs-in Seismic Controls
 Curb to Structure: 60445 lbs-in Seismic Controls

Wind $V = 160$ mph $Exp = B$ $K_{zt} = 1.0$
 (ASCE 7-16) $K_d = 0.9$ $\alpha = 7$ $z_g = 1200$
 $K_z = 0.5747$ $A_f = 69.60$ sf $A_{f \text{ EQUIP only}} = 55.41$ sf
 $A_r = 42.30$ sf
 $K_e = 1$ Ground elevation factor, see Table 26.9-1

$GC_{r \text{ LATERAL}} = 1$ (eqn 29.4.2) $GC_{r \text{ VERTICAL}} = 1.4$ (eqn 29.4.3)
 $q_z = 0.00256 \times K_z \times K_{zt} \times K_d \times K_e \times V^2 = 33.90$ psf (eqn 26.10-1)

$F = q_z \times A_p \times (GC_r) = 2359$ lbs LRFD (eqn 29.4.2)
 $F_{\text{EQUIP only}} = 1878$ lbs LRFD
 $F_v = q_z \times A_r \times (GC_{r \text{ -vert}}) = 1991$ lbs LRFD (eqn 29.4.3)

LRFD Net Overturning Moments ($M_{ovt} - M_{rest}$) $0.9D + W_{\text{lateral}} + W_{\text{uplift}}$
 Equipment to Curb: 34235 lbs-in
 Curb to Structure: 30560 lbs-in

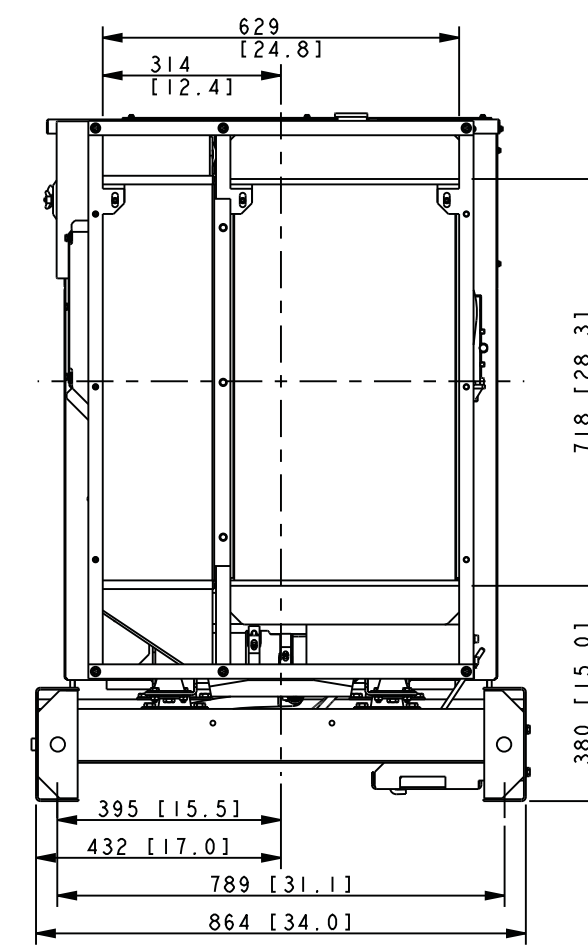
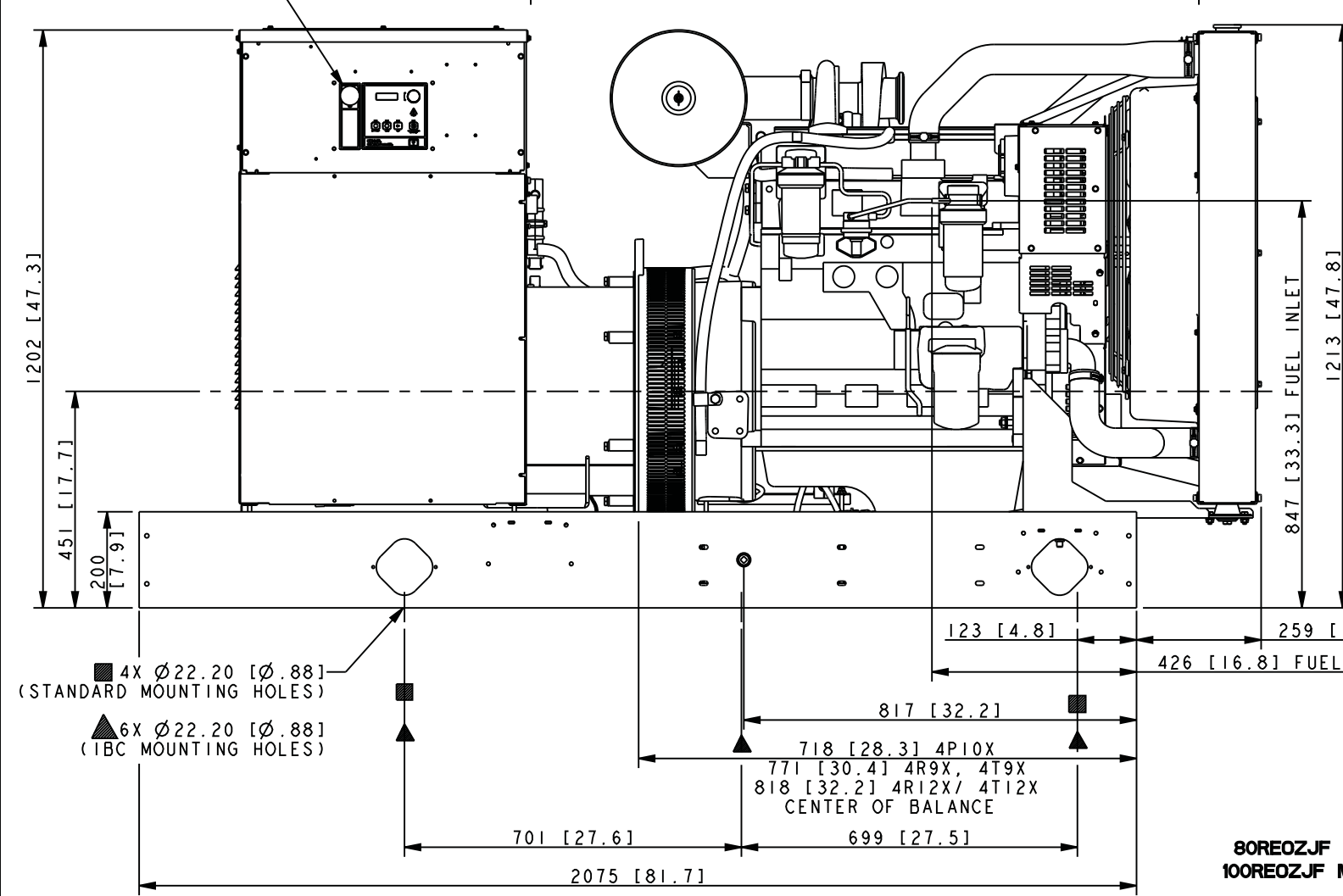
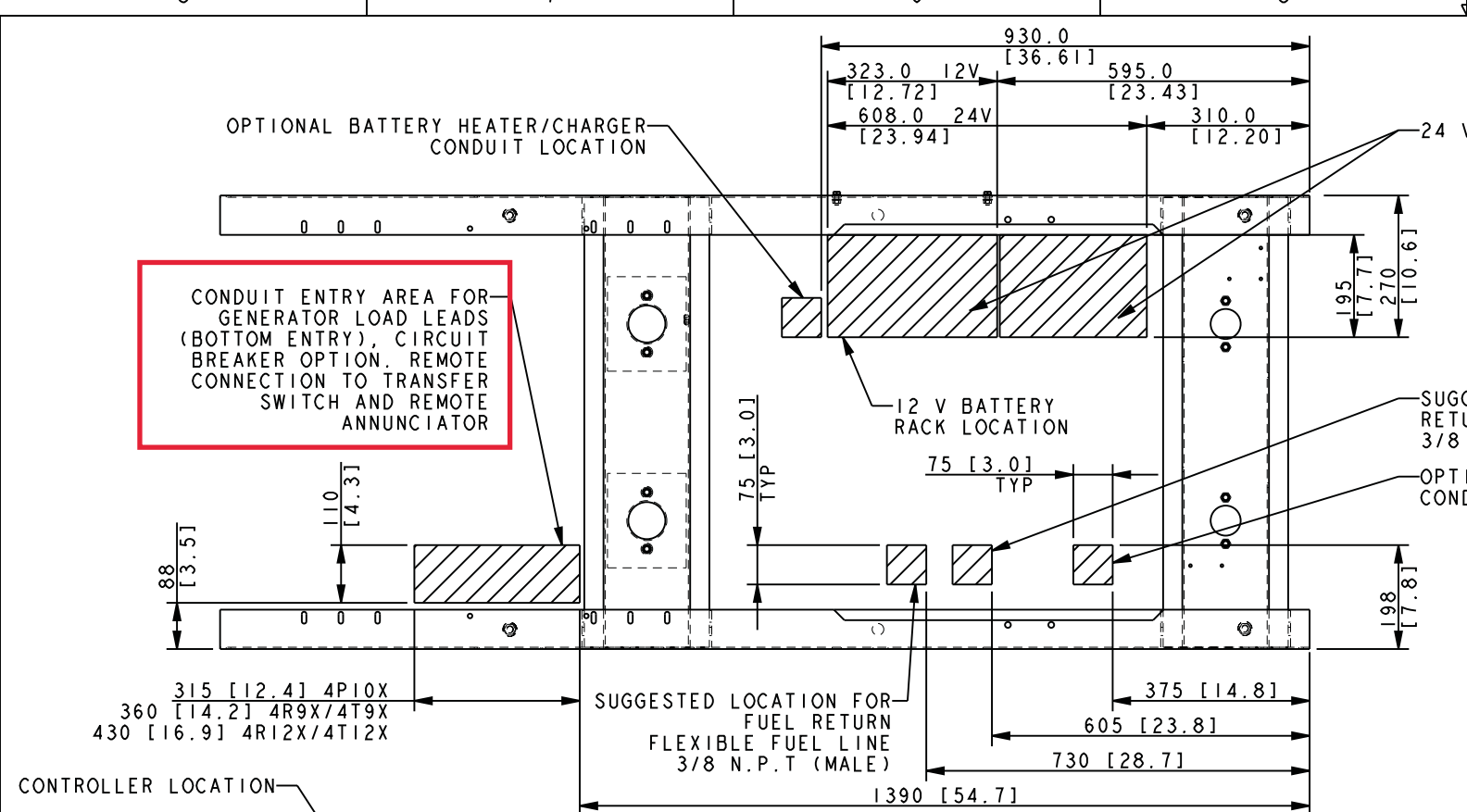
Tank to Conc Pad LRFD

$M/d = Tu = 1471$ lbs # Tension Anchors: **2** $Tu/\text{Anchor} = 736$ lbs
 $Vu = 3181$ lbs # Shear Anchors: **4** $Vu/\text{Anchor} = 795$ lbs

$\Omega_o = 2.0$
 $\Omega Tu/\text{Anchor} = 1471$ lbs
 $\Omega Vu/\text{Anchor} = 1591$ lbs

3/4" x 4.5" Hilti KB-TZ2 SS316 (per ESR-4266):
 $\phi T_n = 3717$ lbs = 40%
 $\phi V_n = 8759$ lbs = 18%
 Combined: $(\Omega Tu / \phi T_n)^{5/3} + (\Omega Vu / \phi V_n)^{5/3} = 27\%$

OK
 No Special Inspection Required (<50% stressed)



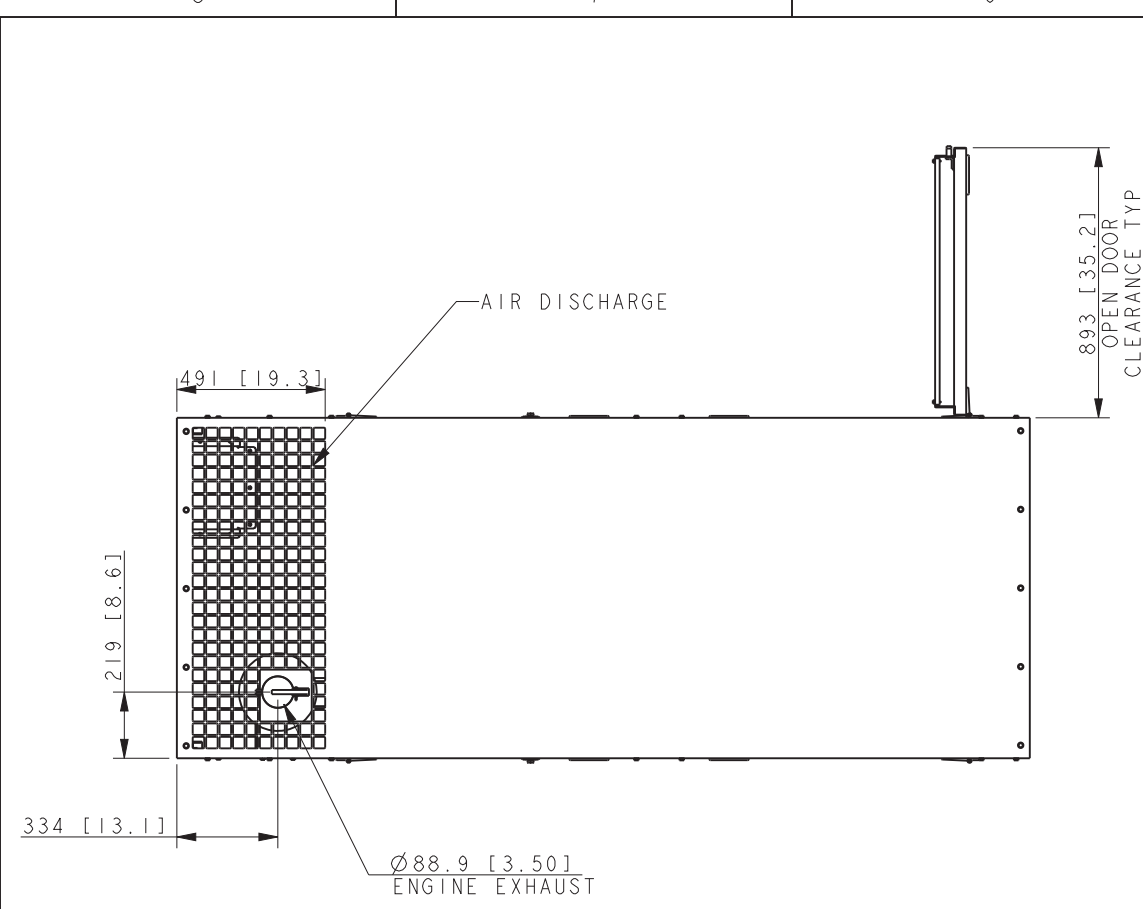
INSTALLATION NOTE
 IF SUBBASE FUEL TANK AND/OR SOUND HOUSING IS USED, REFER TO SUBBASE FUEL TANK DRAWING TO DETERMINE MOUNTING LOCATIONS

MODEL	GENSET WEIGHT (WET)
80 4P10X	973 KG [2145 LBS]
80 4R9X, 4T9X 100 4R9X	1056 KG [2328 LBS]
100 4R12X, 4T12X	1119 KG [2468 LBS]

NOTES
 DIMENSIONS IN [] ARE ENGLISH EQUIVALENTS.
 IF AN ENCLOSURE IS USED, THE FUEL LINE MUST BE STUBBED UP FROM DIRECTLY UNDER THE UNIT OR BROUGHT IN FROM THE END OF THE SKID. REFER TO ENCLOSURE ADV.
 IF IBC CERTIFICATION IS REQUIRED SEE SEISMIC ADV FOR INSTALLATION INSTRUCTIONS.

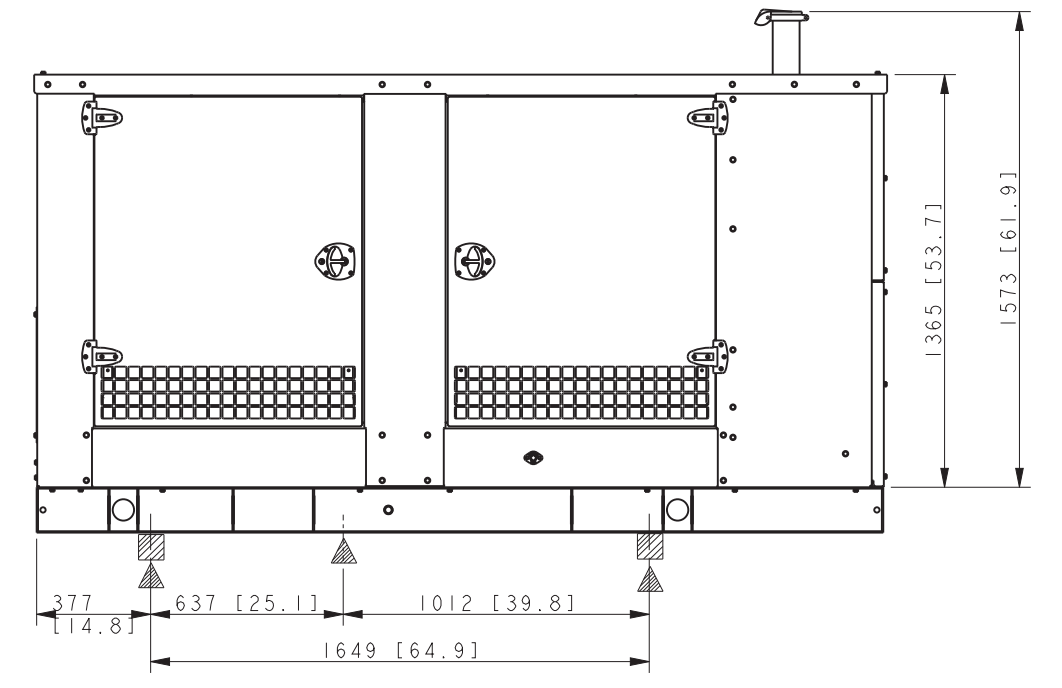
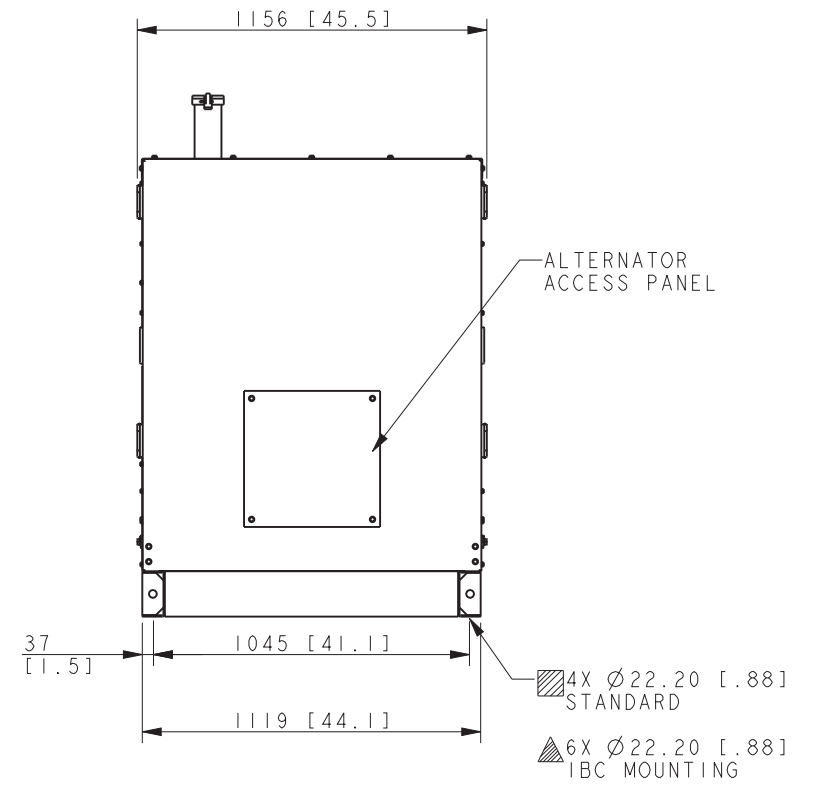
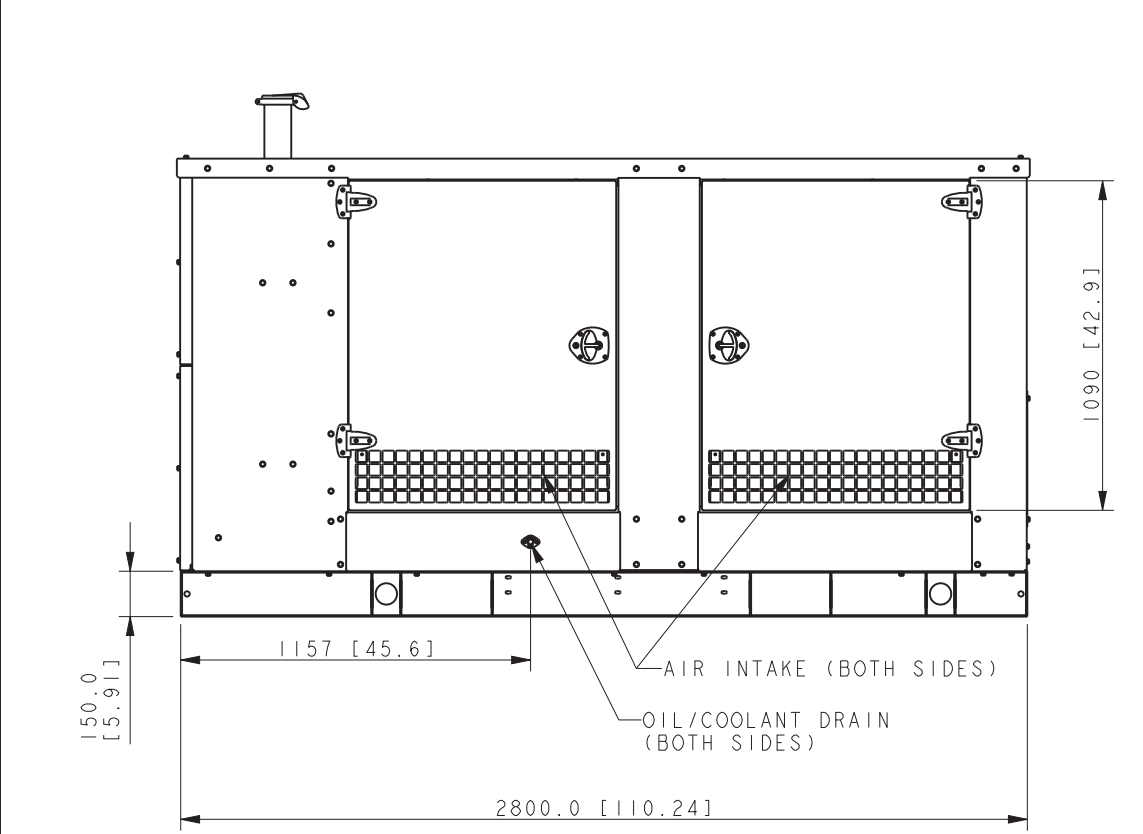
FOR OPEN GENSETS
 80RE0ZJF MODEL, 4P10X, 4R9X, 4T9X
 100RE0ZJF MODEL, 4R9X, 4R12X, 4T12X
 RECONNECTABLE
 IMPROVE MOTOR STARTING (IMS) RECONNECTABLE
 600V & 1 PHASE ALTERNATORS
 4045HF285 JOHN DEERE, TIER III

REV	DATE	ON COMPOSITE DWGS. SEE PART NO. FOR REVISION LEVEL	BY	UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN MILLIMETERS 2) TOLERANCES ARE:	APPROVALS	DATE	TITLE
-	5-12-11	NEW DRAWING [91379-4]	KMP	X.XX ± 0.25 X.X ± 1.0 X ± 1.5 ANGLES ± 0° 30' MAX.		5-12-11	KOHLER CO. METRIC PRO-E POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING IN DESIGN AND DETAIL IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED. DIMENSION PRINT 80-100 MODEL
				THIRD ANGLE PROJECTION	APPROVED	5-12-11	SCALE 0.15 CAD NO. SHEET 1 of 4
					CHECKED	5-12-11	DWG NO. ADV-8181
					APPROVED	5-12-11	D



MODEL	ENCLOSURE WEIGHT KG [LBS]
STEEL WEATHER	318 [700]
STEEL SOUND	329 [725]
ALUMINIUM SOUND	204 [450]

NOTE:
 1. IF TANK IS ORDERED, ENCLOSURE MOUNTS DIRECTLY TO TANK
 2. TANK MAY EXTEND BEYOND ENCLOSURE (DISCHARGE END ONLY)



80 MODEL 4S7, 4S9, 4V9, 4P10X, 4R9X, 4T9X
100 MODEL 4S9, 4S11, 4V11, 4R9X, 4R12X, 4T12X
RECONNECTABLE
IMPROVE MOTOR STARTING (IMS) RECONNECTABLE
600V & 1 PHASE ALTERNATORS
4045HF285 JOHN DEERE TIER III
 Page 116 of 137

REV	DATE	ON COMPOSITE DWGS. SEE PART NO. FOR REVISION LEVEL	BY	UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN MILLIMETERS 2) TOLERANCES ARE:
B	9-28-10	(A-4) 6X Ø22.20 ADDED, 4X Ø22.20 WAS 4X Ø25.4 *A-3) DIM 635 AND 1014 ADDED [90301]	SAM	X.XX ± 0.25 X.X ± 1.0 X ± 1.5
C	1-31-11	(A-7) 1159 WAS 1084 [90327]	SAM	ANGLES ± 0° 30' MAX.
D	12-22-11	(A-4) 4P10X, 4R9X, 4T9X ADDED TO 80 MODEL, 4R9X, 4R12X, 4T12X ADDED TO 100 MODEL [92681]	PKD	THIRD ANGLE PROJECTION
E	2-4-13	(A-1) 1-2 WAS 1-2, SEE SHEET 2 [CT32174]	SAM	APPROVALS
F	10-12-17	(C-7) DIM. Ø88.9 [3.50] ADDED [CT177004]	SRM	DATE
				DRAWN KDW 7-9-09
				CHECKED KDW 7-9-09
				APPROVED ALC 7-9-09

KOHLER CO. METRIC PRO-E
 POWER SYSTEMS, KOHLER, WI 53044 U.S.A.
 THIS DRAWING IN DESIGN AND DETAIL IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.

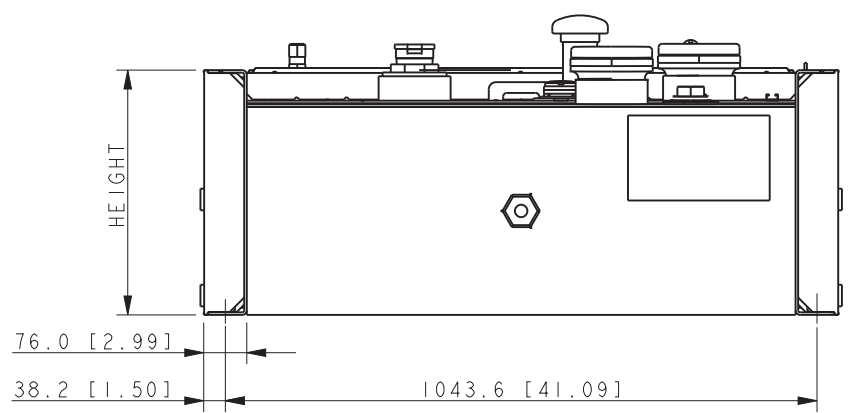
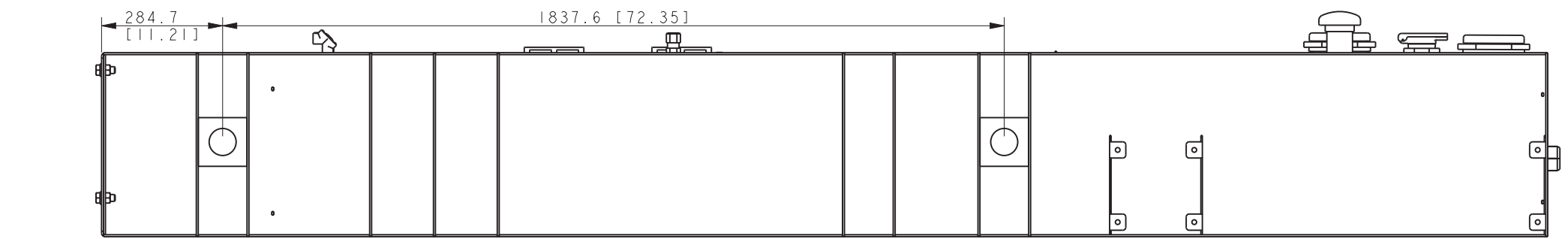
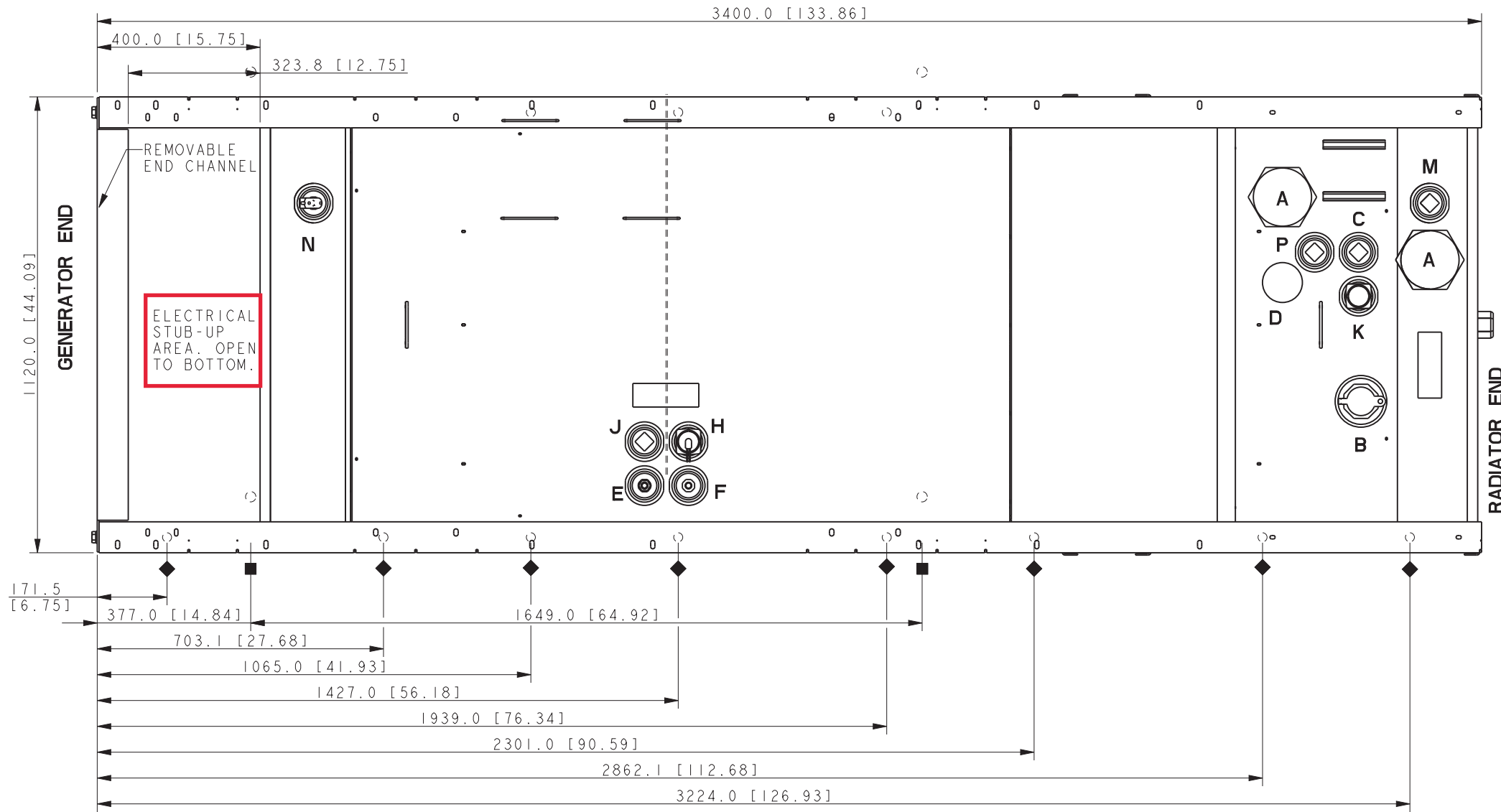
TITLE: **DIMENSION PRINT**

SCALE 0.08 CAD NO. SHEET 1 of 2
 DWG NO. **ADV-7647** D

MODEL	CAPACITY		WEIGHT		HEIGHT	
	LITERS	GAL	KG	LBS	MM	IN
80/100kW	815	215	595	1312	431.8	17.0
80/100kW	1570	415	835	1840	762.0	30.0

TANK FITTINGS:

- A. 4" NPT EMERGENCY VENT FITTING PER NFPA 30 WITH VENT CAPS (QTY 2)
- B. 2" NPT FUEL FILL FITTING WITH LOCKABLE CAP & 2" RISER
- C. 2" NPT ADDITIONAL FITTING FOR OPTIONAL ACCESSORY (INSTALL STEEL 2" NPT PIPE PLUG)
- D. 2" NORMAL VENT FITTING WITH MUSHROOM VENT CAP AND 5" RISER
- E. 2" NPT FITTING FOR REMOVABLE ENGINE SUPPLY DIP TUBE (3/8" NPT FEMALE WITH CHECK VALVE)
- F. 2" NPT FITTING FOR REMOVABLE FUEL RETURN DIP TUBE (3/8" NPT FEMALE)
- H. 2" NPT FUEL LEVEL SENDING UNIT
- J. 2" NPT ADDITIONAL FITTING FOR OPTIONAL ACCESSORY (INSTALL STEEL 2" NPT PIPE PLUG)
- K. 2" FUEL LEVEL GAUGE FITTING W/DIRECT READING MECHANICAL GAUGE
- M. 2" NPT BASIN DRAIN (INSTALL STEEL 2" NPT PIPE PLUG)
- N. 2" NPT FOR FUEL IN BASIN SWITCH (INSTALL STEEL 2" NPT PIPE PLUG)
- P. 2" NPT ADDITIONAL FITTING FOR OPTIONAL ACCESSORY (INSTALL STEEL 2" PIPE PLUG)



NOTE:
FOR FURTHER TANK DETAIL
SEE INDIVIDUAL DRAWINGS

- 4X Ø25.4 [1.00] STANDARD MOUNTING
- ◆ 16X Ø22.2 [0.875] IBC MOUNTING

STATE TANK

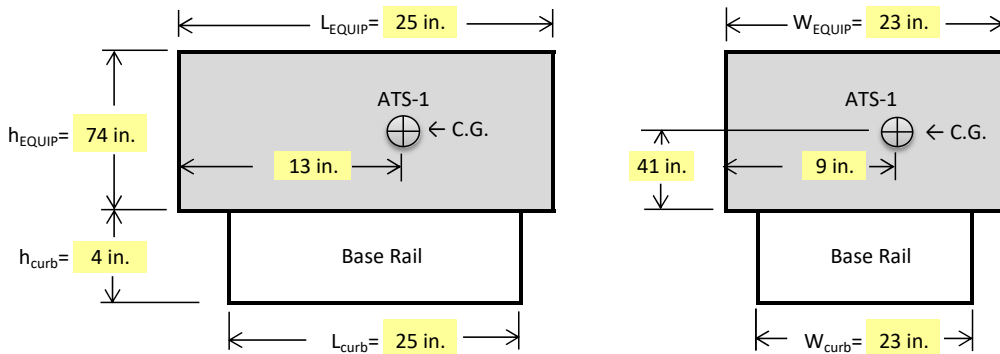
80 MODEL 4S7, 4S9, 4V9, 4P10X, 4R9X, 4T9X
100 MODEL 4S9, 4S11, 4V11, 4R9X, 4R12X, 4T12X
RECONNECTABLE
IMPROVE MOTOR STARTING (IMS) RECONNECTABLE
600V & 1 PHASE ALTERNATORS
4045HF285 JOHN DEERE, TIER III
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REV	DATE	ON COMPOSITE DWGS. SEE PART NO. FOR REVISION LEVEL	BY
-	9-12-12	NEW DRAWING [CT23454]	JB2
A	1-25-18	(D-2) FITTING NOTES M & N 2"NPT WAS 1/2"NPT, SEE SHEET 2 [CT182424]	JB2
B	2-22-18	SEE SHEET 2 [CT184812]	PAS
C	12-5-19	SEE SHEET 2 [CT200428]	YBY

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN MILLIMETERS 2) TOLERANCES ARE: X.XX ± 0.25 X.X ± 1.0 X ± 1.5 ANGLES ± 0° 30' MAX.		KOHLER CO. METRIC PRO-E POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING IN DESIGN AND DETAIL IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED. TITLE: DIMENSION PRINT, SUBBASE TANK, STATE SCALE: 0.15 CAD NO. SHEET 1 of 2 DWG NO. ADV-8522
APPROVALS	DATE	
DRAWN	JB2	9-12-12
CHECKED	JB2	9-12-12
APPROVED	AJD	9-12-12

Equipment Tag: **ATS-1** (600A)

ATS-1 Attachment Forces - (ASCE 7-16)



ATS-1 weight= **580 lbs** Base Rail Weight= **10 lbs**
 (including enclosure)

Seismic $a_p = 2.5$ $R_p = 6.0$ $S_{DS} = 1.2$ $I_p = 1.5$ $Z = 0$ ft $h = 1$ ft

(ASCE 7-16)

$W_p = 590$ lbs
 $F_p = (0.4 \times a_p \times S_{DS} \times W_p / (R_p / I_p)) \times (1 + 2(z/h)) = 177$ lbs LRFD (eqn 13.3-1)
 $F_{p \max} = 1.6 \times S_{DS} \times I_p \times W_p = 1699$ lbs LRFD (eqn 13.3-2)
 $F_{p \min} = 0.3 \times S_{DS} \times I_p \times W_p = 319$ lbs LRFD (eqn 13.3-3)
 $F_p = 319$ lbs LRFD

LRFD Net Overturning Moments ($M_{ovt} - M_{rest}$) $(0.9 - 0.2S_{DS})D + E$

Equipment to Curb: 9433 lbs-in
 Curb to Structure: 10516 lbs-in

Wind $V = 160$ mph $Exp = B$ $K_{zt} = 1.0$
 (ASCE 7-16) $K_d = 0.9$ $\alpha = 7$ $z_B = 1200$
 $K_z = 0.5747$ $A_f = 13.53$ sf $A_{f \text{ EQUIP only}} = 12.91$ sf
 $A_r = 3.96$ sf
 $K_e = 1$ Ground elevation factor, see Table 26.9-1

$GC_{r \text{ LATERAL}} = 1$ (eqn 29.4.2) $GC_{r \text{ VERTICAL}} = 1.5$ (eqn 29.4.3)
 $q_z = 0.00256 \times K_z \times K_{zt} \times K_d \times K_e \times V^2 = 33.90$ psf (eqn 26.10-1)

$F = q_z \times A_f \times (GC_r) = 459$ lbs LRFD (eqn 29.4.2)
 $F_{\text{EQUIP only}} = 438$ lbs LRFD
 $F_v = q_z \times A_r \times (GC_{r \text{ -vert}}) = 206$ lbs LRFD (eqn 29.4.3)

LRFD Net Overturning Moments ($M_{ovt} - M_{rest}$) $0.9D + W_{\text{lateral}} + W_{\text{uplift}}$

Equipment to Curb: 12994 lbs-in Wind Controls
 Curb to Structure: 15322 lbs-in Wind Controls

Base Rail to Conc Pad LRFD

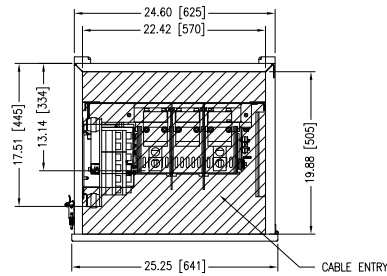
$M/d = Tu = 679$ lbs # Tension Anchors: **2** $Tu/\text{Anchor} = 339$ lbs
 $Vu = 459$ lbs # Shear Anchors: **4** $Vu/\text{Anchor} = 115$ lbs

$\Omega_o = 2.0$
 $\Omega Tu/\text{Anchor} = 679$ lbs
 $\Omega Vu/\text{Anchor} = 229$ lbs

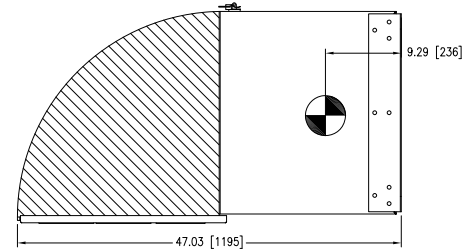
3/8" x 2.5" Hilti KB-TZ2 SS316 (per ESR-4266):
 $\phi T_n = 1448$ lbs = 47%
 $\phi V_n = 2079$ lbs = 11%
 Combined: $(\Omega Tu / \phi T_n)^{5/3} + (\Omega Vu / \phi V_n)^{5/3} = 31\%$

OK

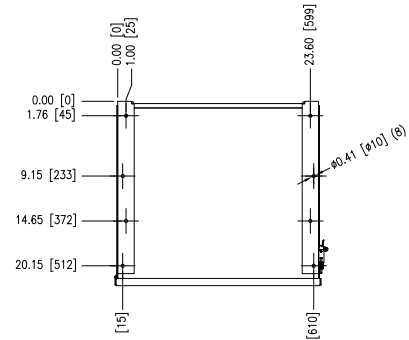
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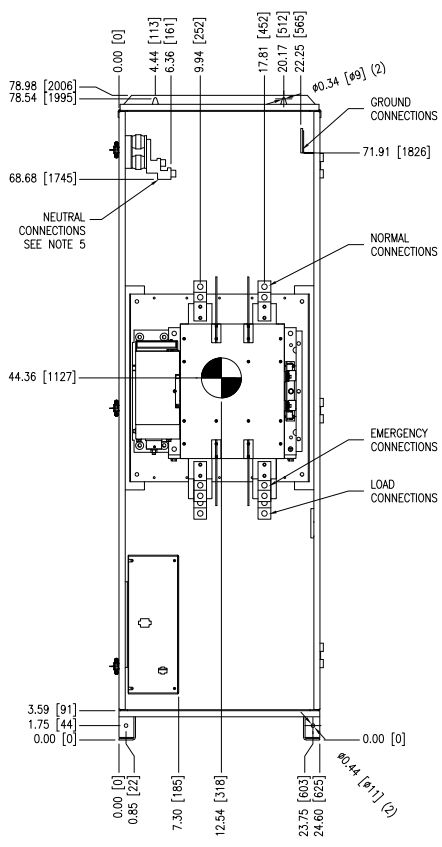
PLAN VIEW



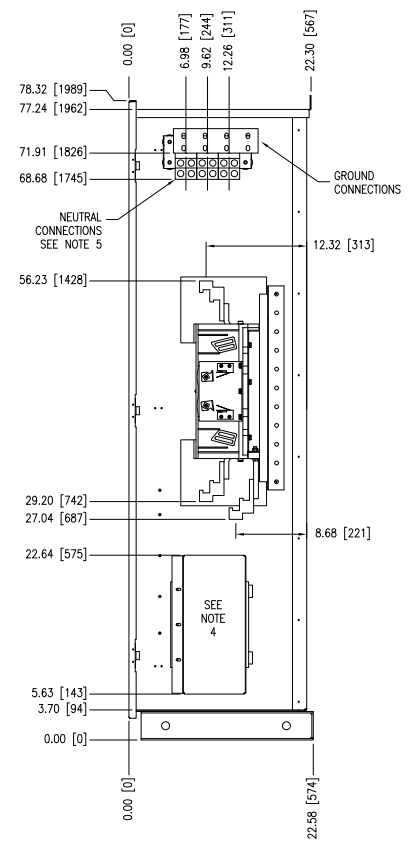
TOP VIEW



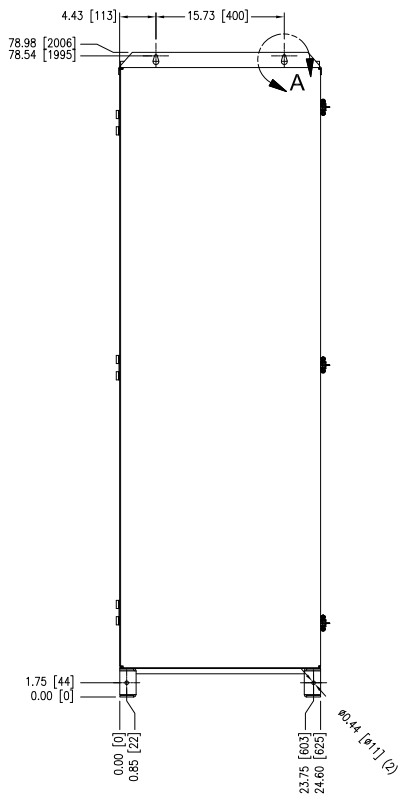
BOTTOM VIEW (DOOR REMOVED)



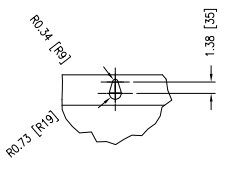
FRONT VIEW (DOOR REMOVED)



SIDE VIEW (RIGHT SIDE REMOVED)



REAR VIEW (DOOR REMOVED)



DETAIL A SCALE 0.18 : 1

ATC3C5X20600WRU
 AUTOMATIC OPEN TRANSFER CONTACTOR SWITCH
 ATC-300+ CONTROL, 3 POSITION CONTACTOR
 FIXED MOUNTED
 2 POLE, 600 AMPS
 240/120V 60HZ, 1 PHASE, 3 WIRE
 TYPE-3R ENCLOSURE, UL 1008 LISTED

- FEATURES INCLUDED:
- 1A TIME DELAY NORMAL TO EMERGENCY ADJ 0-1800 sec
 - 2A TIME DELAY ENGINE START ADJ 0-120 sec
 - 3A TIME DELAY EMERGENCY TO NORMAL ADJ 0-1800 sec
 - 4A TIME DELAY ENGINE COOL-OFF ADJ 0-1800 sec
 - 5J EMERGENCY (S2) SENSING ALL PHASE UNDERVOLTAGE/UNDER FREQ
 - 5K EMERGENCY (S2) SENSING ALL PHASE OVERVOLTAGE/OVER FREQ
 - 6B ENGINE TEST PUSHBUTTON
 - 7A TIME DELAY ENGINE FAIL ADJ 0-6 sec
 - 8C BYPASS TIME DELAY EMERGENCY TO NORMAL
 - 8D BYPASS TIME DELAY NORMAL TO EMERGENCY
 - 12C NORMAL (S1) CONNECTED INDICATION
 - 12D EMERGENCY (S2) CONNECTED INDICATION
 - 12G NORMAL (S1) PRESENT INDICATION
 - 12H EMERGENCY (S2) PRESENT INDICATION
 - 14L AUX RELAY CONTACTS NORMAL (S1) PRESENT 2 FORM C
 - 14M AUX RELAY CONTACTS EMERGENCY (S2) PRESENT 2 FORM C
 - 15E POSITION INDICATION CONTACT NORMAL (S1) 1 FORM C
 - 15F POSITION INDICATION CONTACT EMERGENCY (S2) 1 FORM C
 - 22 GROUND BAR
 - 23K PLANT EXERCISER 7/14/28 DAY LOAD/NO LOAD 0-600 min
 - 26J GO TO EMERGENCY (S2) INPUT
 - 26K NORMAL (S1) SENSING ALL PHASE UNDERVOLTAGE/UNDER FREQ
 - 26L NORMAL (S1) SENSING ALL PHASE OVERVOLTAGE/OVER FREQ
 - 32D IN-PHASE TRANSITION DEFAULTS TO TIME DELAY NEUTRAL
 - 35A PRE-TRANSFER SIGNAL CONTACTS 1 FORM C
 - 41A 100 WATT SPACE HEATER WITH THERMOSTAT
 - 42 IBC/CBC SEISMIC QUALIFIED
 - 48F COMMUNICATIONS MODBUS
 - 49C MULTI-TAP VOLTAGE TRANSFORMER
 - 81A GENERAL ALARM INDICATION CONTACT

REQUIRED FOR SEISMIC, RECOMMENDED FOR ALL APPLICATIONS:
 USE 4, 5/16-13 UNC GRADE 5 OR BETTER HEX HEAD BOLTS AND WASHERS.
 THESE BOLTS ARE TO BE TORQUED TO 75 FT. LBS. (102 NM).

TERMINALS:
 NORMAL: (2) 1/0-750 CU/AL PER POLE
 EMERGENCY: (2) 1/0-750 CU/AL PER POLE
 LOAD: (2) 1/0-750 CU/AL PER POLE
 NEUTRAL: (12) 1/0-750 CU/AL

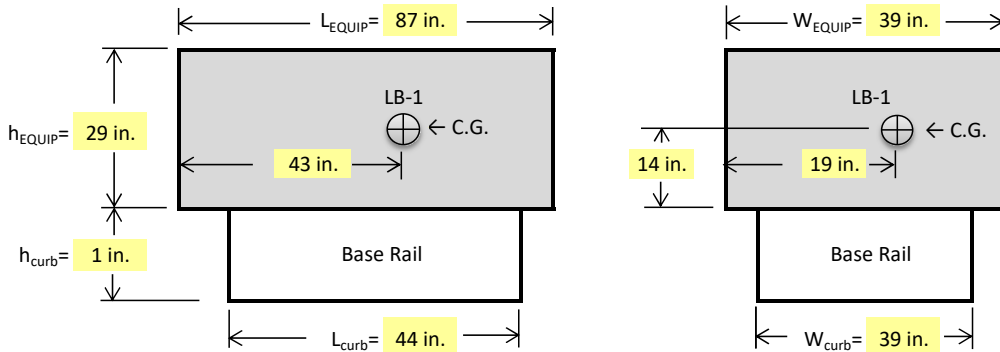
NOTES:
 1 APPROXIMATE SHIPPING WEIGHT = 590 LBS [268 KG]
 2 DIMENSIONS SHOWN IN INCHES [MILLIMETERS]
 3 CONTROLS PROVIDED BASED ON CUSTOMER ORDER INFORMATION.
 4 TRANSFORMER INCLUDED
 5 FOR SWITCHED NEUTRAL APPLICATIONS CONNECT TO TERMINALS MARKED 'NN', 'EN', AND 'TN'. NEUTRAL ASSEMBLY IS NOT PROVIDED. FOR 1 PHASE 2 WIRE SYSTEMS NEUTRAL ASSEMBLY IS NOT PROVIDED.

CG CENTER OF GRAVITY

DFTR NICHOLAS GRAVES	DATE 8/26/2021	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.		EATON
APPD	DATE	TITLE AUTOMATIC OPEN TRANSFER CONTACTOR SWITCH 480V 3 POSITION 40-1200 AMP ATC-300+ CONTROLLER		
PRODUCT CODE AT	S.O.	TYPE ATC3C5X20600WRU	OUTLINE	
DESIGNATION Q House	CAGE CODE 88725	REVISION 1	G.O. -	DWG Q House-01
Page 107 of 137			SHEET 1 OF 6	

Equipment Tag: **LB-1** 80kW

LB-1 Attachment Forces - (ASCE 7-16)



LB-1 weight= **400 lbs** Base Rail Weight= **25 lbs**
(including enclosure)

Seismic $a_p = 2.5$ $R_p = 6.0$ $S_{DS} = 1.2$ $I_p = 1.5$ $Z = 0$ ft $h = 1$ ft

(ASCE 7-16) $W_p = 425$ lbs
 $F_p = (0.4 \times a_p \times S_{DS} \times W_p / (R_p / I_p)) \times (1 + 2(z/h)) = 128$ lbs LRFD (eqn 13.3-1)
 $F_{p \max} = 1.6 \times S_{DS} \times I_p \times W_p = 1224$ lbs LRFD (eqn 13.3-2)
 $F_{p \min} = 0.3 \times S_{DS} \times I_p \times W_p = 230$ lbs LRFD (eqn 13.3-3)
 $F_p = 230$ lbs LRFD

LRFD Net Overturning Moments ($M_{ovt} - M_{rest}$) $(0.9 - 0.2S_{DS})D + E$
 Equipment to Curb: 0 lbs-in
 Curb to Structure: 0 lbs-in

Wind $V = 160$ mph $Exp = B$ $K_{zt} = 1.0$
 (ASCE 7-16) $K_d = 0.9$ $\alpha = 7$ $z_B = 1200$
 $K_z = 0.5747$ $A_f = 17.75$ sf $A_{f \text{ EQUIP only}} = 17.44$ sf
 $A_r = 23.41$ sf
 $K_e = 1$ Ground elevation factor, see Table 26.9-1

$GC_{r \text{ LATERAL}} = 1$ (eqn 29.4.2) $GC_{r \text{ VERTICAL}} = 1.5$ (eqn 29.4.3)
 $q_z = 0.00256 \times K_z \times K_{zt} \times K_d \times K_e \times V^2 = 33.90$ psf (eqn 26.10-1)

$F = q_z \times A_f \times (GC_r) = 602$ lbs LRFD (eqn 29.4.2)
 $F_{\text{EQUIP only}} = 591$ lbs LRFD
 $F_v = q_z \times A_r \times (GC_{r \text{ -vert}}) = 1159$ lbs LRFD (eqn 29.4.3)

LRFD Net Overturning Moments ($M_{ovt} - M_{rest}$) $0.9D + W_{\text{lateral}} + W_{\text{uplift}}$
 Equipment to Curb: 21800 lbs-in Wind Controls
 Curb to Structure: 22116 lbs-in Wind Controls

Base Rail to Conc Pad LRFD

$M/d = Tu = 570$ lbs # Tension Anchors: **2** $Tu/\text{Anchor} = 285$ lbs
 $Vu = 602$ lbs # Shear Anchors: **4** $Vu/\text{Anchor} = 150$ lbs

$\Omega_o = 2.0$ **3/8" x 2.5" Hilti KB-TZ2 SS316 (per ESR-4266):**
 $\Omega Tu/\text{Anchor} = 570$ lbs $\phi Tn = 1448$ lbs = 39%
 $\Omega Vu/\text{Anchor} = 301$ lbs $\phi Vn = 2079$ lbs = 14%
 Combined: $(\Omega Tu/\phi Tn)^{5/3} + (\Omega Vu/\phi Vn)^{5/3} = 25\%$

OK
 No Special Inspection Required (<50% stressed)

