NOTES:

- 1. ENCLOSURE ASSEMBLY:
 - a.) FOR A CATERPILLAR 3000 kW C175 GEN-SET w/ 50 C RADIATOR.
 - b.) FULLY ASSEMBLED ACOUSTICAL ENCLOSURE TO BE ANCHORED TO THE FOUNDATION.
 - c.) PANEL JOINTS ARE SKIP WELDED AND CAULKED.
 - d.) 125 MPH WIND LOAD ZONE 2 SEISMIC RATED
- 2. ENCLOSURE CONSTRUCTION:
 - a.) SKIN 12 GA. GALVANNEAL STEEL (WALLS).

12 GA. GALVANNEAL STEEL (ROOF).

- b.) FRAMING A36 STRUCTURAL CHANNEL & A500-B TUBING.
- c.) INNER LINER GALVANIZED PERFORATED STEEL.
- d.) INSULATION MINERAL WOOL PROTECTED BY 2 MIL POLY COVERING WALLS AND ROOF.
- e.) DOORS FOUR (4) SINGLE ACCESS SERVICE DOORS WITH STAINLESS STEEL HINGES & REFRIGERATOR DOOR LATCH W/ INSIDE RELEASE AND KEY LOCKING HANDLES.
- f.) ONE (1) INLET HOOD (GALVANIZED CONST.).
- q.) 60" DEEP INLET BAFFLE PANELS -(GALVANNEALED CONST.).
- h.) ONE (1) GRAVITY BACKDRAFT DAMPER ALUMINUM CONSTRUCTION.
- i.) 84" DEEP DISCHARGE BAFFLE PANELS -(GALVANNEALED CONST.).
- 3. DESIGN CONSTRUCTION:
 - a.) AIR FLOW RATES;

RADIATOR - 145,000 CFM COMBUSTION - 9,356 CFM

b.) PRESSURE DROPS;

INLET & DISCHARGE LOUVERS/BAFFLES 0.75" W.G. OR LESS (TOTAL).

c.) PERFORMANCE;

DESIGNED TO REDUCE THE GEN-SET EQUIPMENT NOISE LEVEL TO 85 dBA WHEN MEASURED AT A DISTANCE OF 3 FEET FROM THE ENCLOSURE AND 5 1/2 FEET ABOVE GRADE.

(PROVIDING THE EQUIPMENT NOISE DOES NOT EXCEED 131 dBA @ 3 FEET.)

- 4. PAINTING:
 - a.) ALL EXTERIOR GALVANIZED SURFACES TO BE SOLVENT CLEANED PER SSPC-SP1 AND PAINTED AS FOLLOWS;
 - * PRIMER INDUSTRIAL WASH PRIMER.
 - * INTERMEDIATE ONE COAT AMERON AMERLOCK 2 (3-5 MILS DFT).
 - * FINISH ONE COAT AMERON PSX 700 POLYURETHANE TEXTURE (2-3 MILS DFT).
 - b.) ALL CARBON STEEL SURFACES TO BE POWER TOOL CLEANED PER SSPC-SP3 AND PAINTED AS FOLLOWS;
 - * PRIMER ONE COAT AMERON AMERLOCK 2 (2-3 MILS DFT).
 - * INTERMEDIATE ONE COAT AMERON AMERLOCK 2 (3-5 MILS DFT).
 - * FINISH ONE COAT AMERON PSX 700 POLYURETHANE TEXTURE (2-3 MILS DFT).
 - * INTERIOR WALL AND ROOF SURFACES WILL NOT BE PAINTED.
 - c.) COLOR- PRECISION TAN.

- 5. FUEL TANK: U.L. 142. DAY TANK, 400 GALLON CAPACITY FINISH PAINTED TO MATCH ENCLOSURE.
- 6. ELECTRICAL:
 - a.) SEE ELECTRICAL 11773-10E.
- 7. QUANTITY REQUIRED:
 - ONE (1) GEN-SET ENCLOSURE ASSEMBLY AS SHOWN
 - ONE (1) U.L. 142 DAY TANK
- 8. WEIGHTS:

ESTIMATED WEIGHTS ARE AS FOLLOWS:

- 1) ENCLOSURE ASSEMBLY - 49,200 LBS
- 2) DAY TANK - 2,300 LBS
- 3) GEN-SET w/ RADIATOR - 62,000 LBS
- 4) MUFFLER

- 2,600 LBS

TOTAL - 116,100 LBS

- 9. SHIPPING SIZES:
 - 1) ENCLOSURE ASSEMBLY 696"L x 162"W x 168"H
 - 2) DAY TANK
- 49"L x 60"W x 48"H
- 3) GEN-SET
- 328"L x 125"W x 154"H
- 10. ACS CONTACT INFORMATION

SALES: TIMMY BRENT

TELEPHONE: 903.462.2030

E-MAIL: t.brent@acsmanufacturing.com

SALES: PHILIP MACHA

TELEPHONE: 903.462.2008

E-MAIL: p.macha@acsmanufacturing.com

PROJECT MANAGER: STEVE ORRICK

TELEPHONE: 903.462.2020

E-MAIL: s.orrick@acsmanufacturing.com

- ☐ APPROVED AS IS Manufacturing may proceed.
- ☐ APPROVED WITH NOTED CHANGES Resubmit drawing; manufacturing may proceed.
- □ NOT APPROVED Correct drawing as noted and resubmit for approval before manufacturing begins

 DATE:	

RETURNED APPROVAL DRAWINGS WITH SIGNATURE REQUIRED BEFORE ACS WILL BEGIN MANUFACTURING PROCESS

QUOTE NO.: 1109038 REV. 2

PO NO.: 10-578 WO NO .: T.B.D.

JOB NAME: MOLYCORP

CS Manufacturing, inc.

1601 COMMERCE BLVD. - DENISON, TEXAS - 75020

CASHMAN CAT ACOUSTICAL ENCLOSURE ASSEMBLY TEXT SHEET

*CUSTOMER TO VERIFY ALL NOTES AND DIMENSIONS

PROPRIETARY NOTICE

MS SO 06/19/12 FRACTIONAL + 1/8' MS SO 06/08/12 ANGULAR + 3* MS SO 05/24/12 ANGULAR ± 3'
MS SO 05/15/12 SCALE 48:1
MS SO 03/21/12 DATE 01/06/12 UPDATED PER CUSTOMER REQUEST

DESCRIPTION

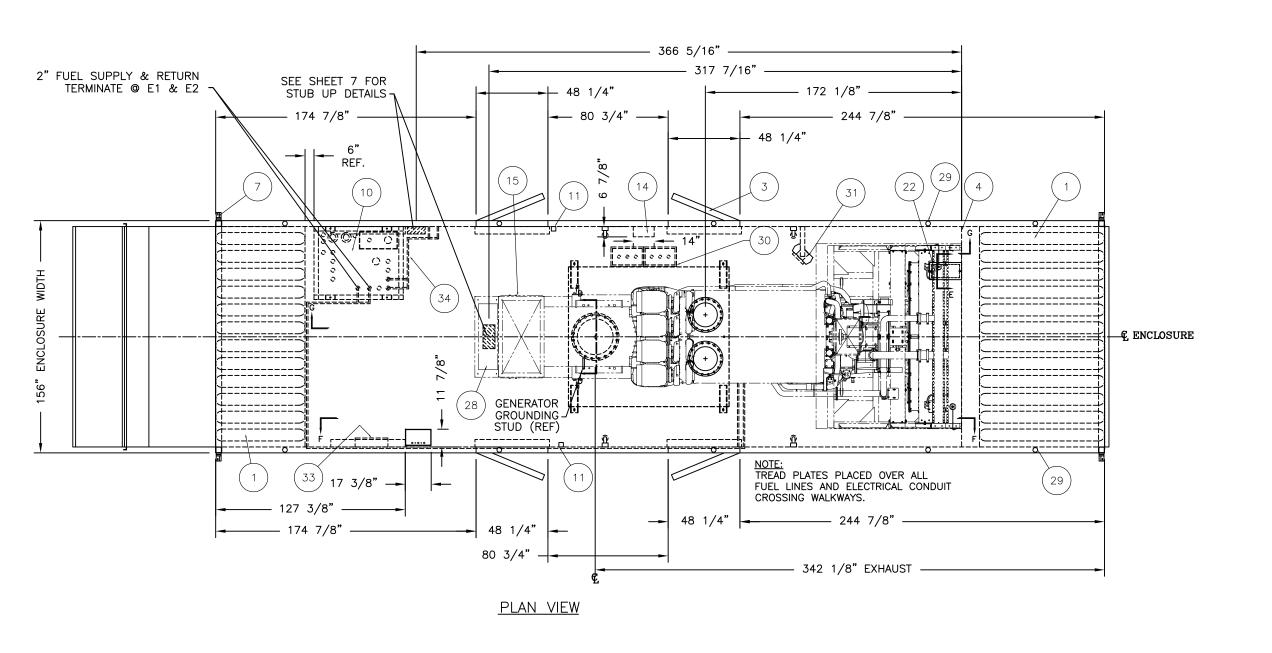
11773-10

PPROVED BY: SO SHEET 1 oF11

RAWN BY: MTS

CHECKED BY:

CHECKED BY:



Parts List DESCRIPTION 1 24 BAFFLE PANELS w/ MINERAL WOOL 2 2 2" FUEL SUPPLY AND RETURN COUPLINGS 3 4 48" X 78" SINGLE DOOR (DOUBLE SEAL) 4 1 RADIATOR FLASHING 5 1 SSTL EXHAUST COVER w/ 20" ANSI FLANGE 6 1 INLET HOOD w/ GALVANIZED MESH SCREEN
7 4 ENCLOSURE LIFTING LUGS — BOLT ON 8 4 12/24V DC LIGHTS,100W INCANDESCENT w/0-60 MIN.TIMER, GLASS GLOBE & WIRE GUARD-POWERED FROM GEN-SET BATTERIES 9 1 DISCHARGE GRAVITY BACKDRAFT DAMPERS 10 1 400 GALLON CAPACITY U.L. 142 DAY TANK w/ FUEL LINES TO GENSET THEN HOSED TO FUEL CONNECTIONS ON ENGINE 11 2 3 WAY LIGHT SWITCH/DUPLEX RECEPTACLE 12 1 15 KVA MPZ 480V-120/240V, 1 PH 13 6 FLOURESCENT LIGHT FIXTURE (T8) 14 1 BATTERY CHARGER 15 1 GENERATOR POWER & CONTROL CABINET 16 1 GENERATOR TERMINAL STRIP CONNECTIONS 17 1 FUEL TANK NORMAL VENT (EXTENDED OUTSIDE OF ENCLOSURE) 18 2 FUEL TANK EMERGENCY VENT (EXTENDED OUTSIDE OF ENCLOSURE) 19 1 CATERPILLAR 3000kW C175 w/ 50C RADIATOR 20 1 GT EXHAUST MUFFLER - PART # 518-C2-10-5124 21 2 INTERNAL MUFFLER SUPPORT CHANNEL 22 1 RADIATOR CAP ACCESS HATCH 23 1 ACS DAY TANK CONTROL 24 1 REMOVABLE EXHAUST BLANKETS FOR ALL COMPONENTS 25 1 24" EXHAUST TAIL PIPE 26 2 ELECTRICAL CONDUIT SUPPORT CHANNEL 27 1 ELECTRICAL CONDUIT ENTRY PANEL 28 1 TOP CABLE ENTRY - REMOVABLE COVER PLATE 29 10 1" EYE BOLT SAFETY RINGS (BY ACS) 30 1 BATTERY RACK (BY OTHERS - MOUNTED BY ACS) 31 1 5kW SPACE HEATER 32 1 4" MERCHANT COUPLING FOR ELECTRICAL CONDUIT CONNECTION 33 | 1 | 480V | 100A | PANELBOARD | 34 AR 2" SCH. 40 BLACK IRON FUEL LINES | | 35 | 1 | 16" ANSI TO 10" ANSI EXHAUST CONE - (BY ACS) 36 2 1" MERCHANT COUPLING-WATER & OIL DRAIN

> > DRAWN BY: MTS
> > CHECKED BY:

PROVED BY: SO

CHECKED BY:

SHEET

2 of 11

MANUFACTURING PROCES

PO NO.: 10-578
WO NO.: T.B.D.
JOB NAME: MOLYCORP

QUOTE NO.: 1109038 REV. 2

ACS MANUFACTURING, INC.

CASHMAN CAT

ACOUSTICAL ENCLOSURE ASSEMBLY

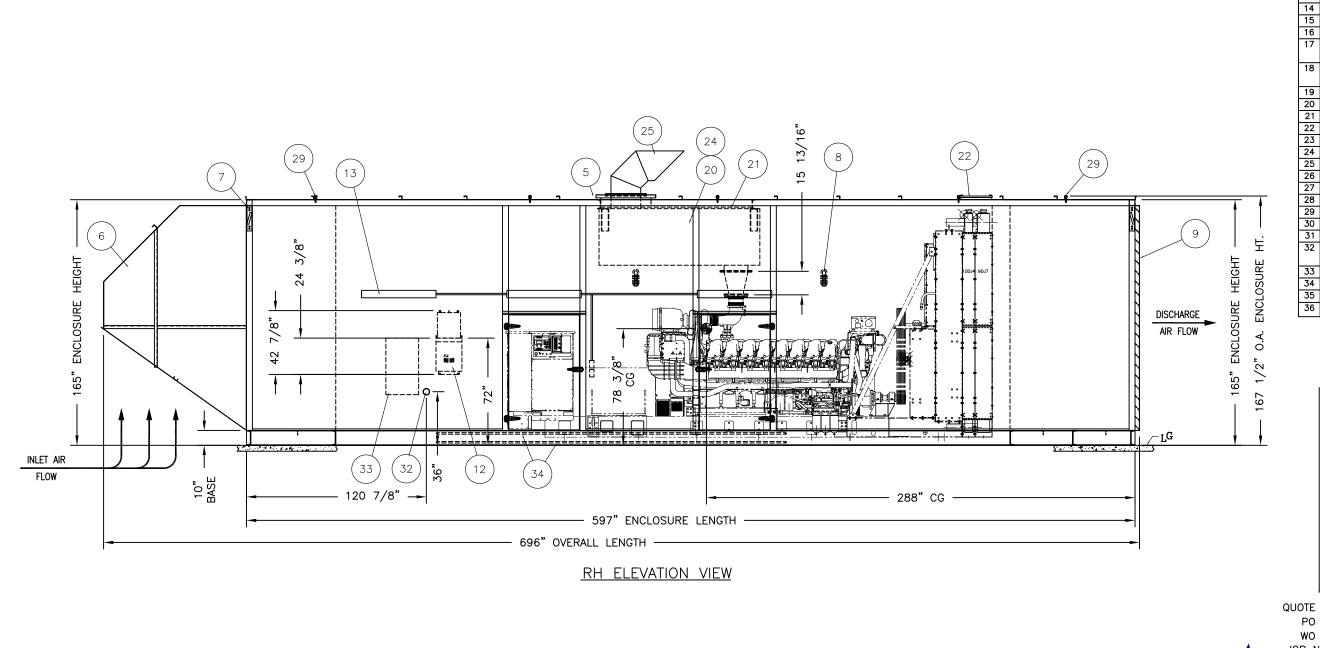
11773-10

1601 COMMERCE BLVD. - DENISON, TEXAS - 75020

| TOLFRANCES | FORCING | TOLFRANCES | TOLFRA

PROPRIETARY NOTICE

THIS DRAWING CONTAINS DESIGNS AND OTHER INFORMATION WHICH ARE THE PROPERTY OF ACS MANUFACTURING, INC. EXCEPT FOR THE RIGHTS GRANTED EXPRESSLY BY CONTRACT, THIS DRAWING MAY NOT BE DISCLOSED ON DUFLOATED IN WHOLE OR IN PART OR USED FOR MANUFACTURE OF DESIGNS DISCLOSED HEREIN WITHOUT THE PRIOR WRITTEN PERMISSION OF ACS MANUFACTURING, INC.



UPDATED MUFFLER

SEE SHEET 2

REV ECO NUMBER

UPDATED PER CUSTOMER REQUESTS

UPDATED PER CUSTOMER REQUESTS
UPDATED PER CUSTOMER REQUESTS

DESCRIPTION

Parts List DESCRIPTION 1 24 BAFFLE PANELS w/ MINERAL WOOL 2 2 2" FUEL SUPPLY AND RETURN COUPLINGS 3 4 48" X 78" SINGLE DOOR (DOUBLE SEAL) 4 1 RADIATOR FLASHING 5 1 SSTL EXHAUST COVER w/ 20" ANSI FLANGE 6 1 INLET HOOD w/ GALVANIZED MESH SCREEN
7 4 ENCLOSURE LIFTING LUGS — BOLT ON 8 4 12/24V DC LIGHTS,100W INCANDESCENT w/0-60 MIN.TIMER, GLASS GLOBE & WIRE GUARD-POWERED FROM GEN-SET BATTERIES 9 1 DISCHARGE GRAVITY BACKDRAFT DAMPERS 10 1 400 GALLON CAPACITY U.L. 142 DAY TANK w/ FUEL LINES TO GENSET THEN HOSED TO FUEL CONNECTIONS ON ENGINE 11 2 3 WAY LIGHT SWITCH/DUPLEX RECEPTACLE 12 1 15 KVA MPZ 480V-120/240V, 1 PH 13 6 FLOURESCENT LIGHT FIXTURE (T8) 14 1 BATTERY CHARGER 15 1 GENERATOR POWER & CONTROL CABINET 16 1 GENERATOR TERMINAL STRIP CONNECTIONS 17 1 FUEL TANK NORMAL VENT (EXTENDED OUTSIDE OF ENCLOSURE) 18 2 FUEL TANK EMERGENCY VENT (EXTENDED OUTSIDE OF ENCLOSURE) 19 1 CATERPILLAR 3000kW C175 w/ 50C RADIATOR 20 1 GT EXHAUST MUFFLER - PART # 518-C2-10-5124 21 2 INTERNAL MUFFLER SUPPORT CHANNEL 22 1 RADIATOR CAP ACCESS HATCH 23 1 ACS DAY TANK CONTROL 24 1 REMOVABLE EXHAUST BLANKETS FOR ALL COMPONENTS 25 1 24" EXHAUST TAIL PIPE 26 2 ELECTRICAL CONDUIT SUPPORT CHANNEL 27 1 ELECTRICAL CONDUIT ENTRY PANEL 28 1 TOP CABLE ENTRY - REMOVABLE COVER PLATE 29 10 1" EYE BOLT SAFETY RINGS (MOUNTED BY ACS) 30 1 BATTERY RACK (BY OTHERS - MOUNTED BY ACS) 31 1 5kW SPACE HEATER 32 1 4" MERCHANT COUPLING FOR ELECTRICAL CONDUIT CONNECTION 33 1 480V 100A PANELBOARD 34 AR 2" SCH. 40 BLACK IRON FUEL LINES 35 1 16" ANSI TO 10" ANSI EXHAUST CONE — (BY ACS) 36 2 1" MERCHANT COUPLING-WATER & OIL DRAIN

 $\ \square$ APPROVED AS IS — Manufacturing may proceed.

☐ APPROVED WITH NOTED CHANGES - Resubmit drawing; manufacturing may proceed.

■ NOT APPROVED - Correct drawing as noted and resubmit for approval before manufacturing begins.

DATE: _

COMPANY: _

RETURNED APPROVAL DRAWINGS WITH SIGNATURE REQUIRED BEFORE ACS WILL BEGIN MANUFACTURING PROCESS

QUOTE NO.: 1109038 REV. 2

PO NO.: 10-578 WO NO.: T.B.D. JOB NAME: MOLYCORP

CS MANUFACTURING, INC.

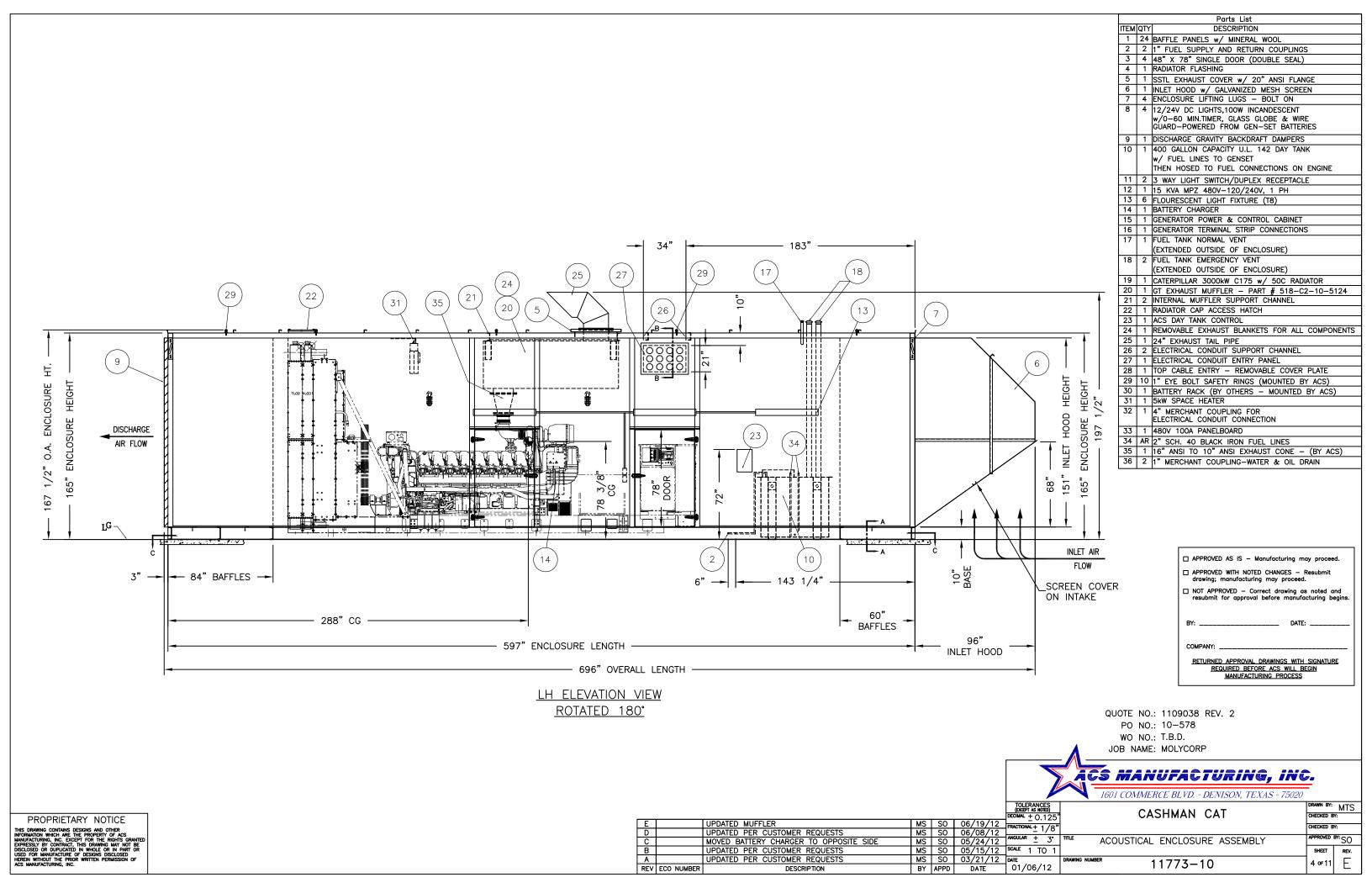
1601 COMMERCE BLVD. - DENISON, TEXAS - 75020

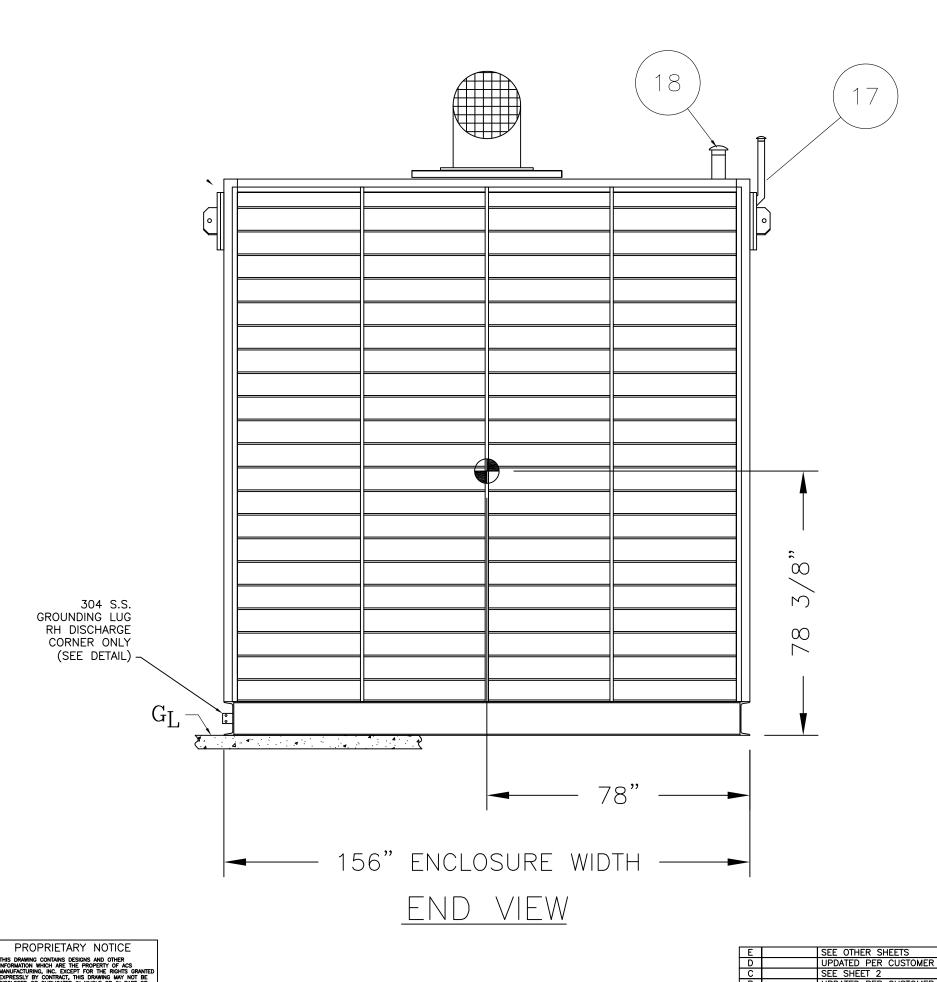
± 0.125' MS SO 06/19/12
MS SO 06/08/12
MS SO 05/24/12
MS SO 05/15/12 SCALE 1 TO 1
MS SO 03/21/12
MS SO 03/21/12
MS SO 01/06/12 BY APPD DATE │ 01/06/12

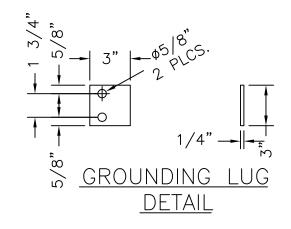
CASHMAN CAT ACOUSTICAL ENCLOSURE ASSEMBLY

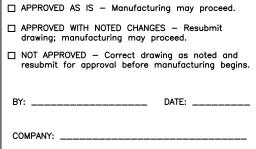
DRAWN BY: MTS
CHECKED BY: CHECKED BY: PROVED BY: SO SHEET REV. 3 of 11 11773-10

PROPRIETARY NOTICE THIS DRAWING CONTAINS DESIGNS AND OTHER INFORMATION WHICH ARE THE PROPERTY OF ACS MANUFACTURING, INC. EXCEPT FOR THE RIGHTS GRANTEE EXPRESSLY BY CONTRACT, THIS DRAWING MAY NOT BE DISCLOSED OR DUPLICATED IN WHOLE OR IN PART OR USED FOR MANUFACTURE OF DESIGNS DISCLOSED HERBIN WITHOUT THE PRIOR WRITTEN PERMISSION OF ACS MANUFACTURING, INC.









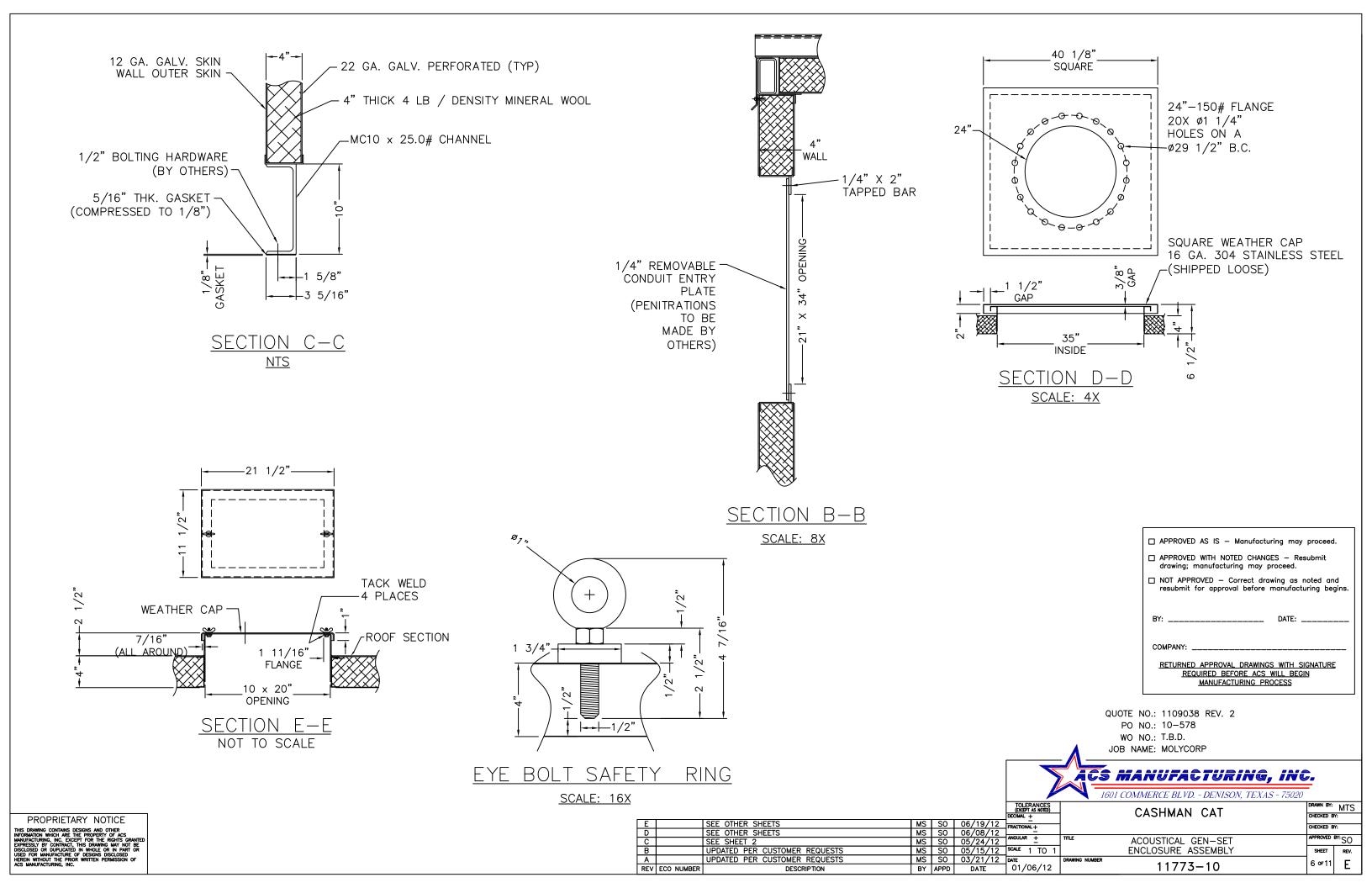
RETURNED APPROVAL DRAWINGS WITH SIGNATURE REQUIRED BEFORE ACS WILL BEGIN MANUFACTURING PROCESS

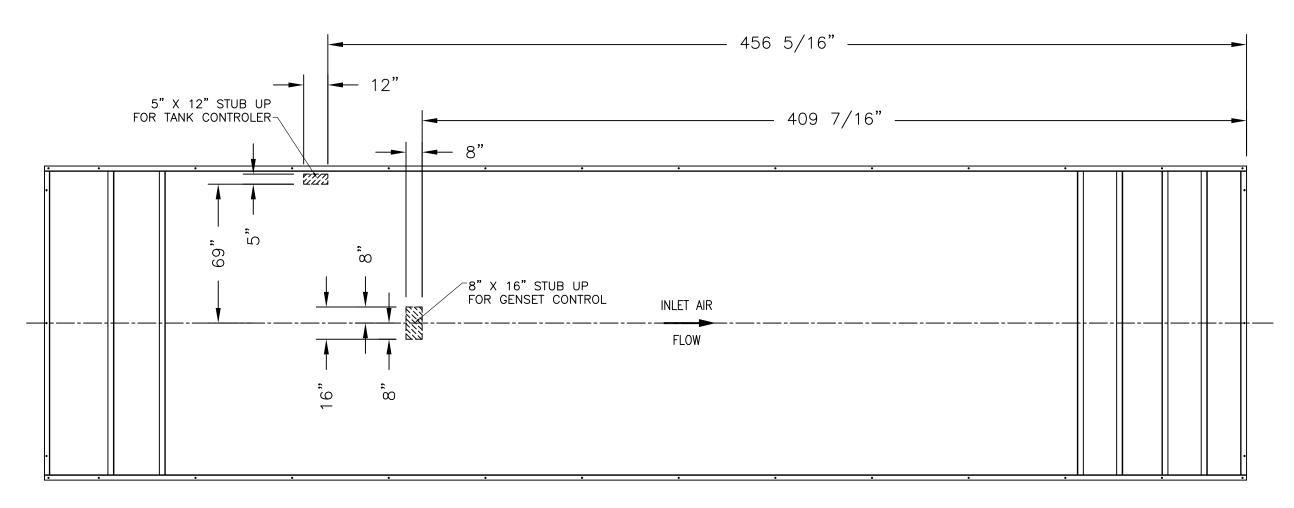
QUOTE NO.: 1109038 REV. 2

PO NO.: 10-578 WO NO.: T.B.D. JOB NAME: MOLYCORP

<u>ACS MANUFACTURING, INC.</u>

							1601 COMMERCE BLVD DENISON, TEXAS - 75020		
						TOLERANCES (EXCEPT AS NOTED)		DRAWN BY: CHECKED BY	
Ε		SEE OTHER SHEETS	MS	SO	06/10/12	PRACTIONAL + 1/8"		CHECKED BY	
О		UPDATED PER CUSTOMER REQUESTS	MS	SO	06/08/12	= ', -			
O		SEE SHEET 2	MS	SO	05/24/12	ANGULAR ± 3°	ACOUSTICAL ENCLOSURE ASSEMBLY	APPROVED E	"SO
В		UPDATED PER CUSTOMER REQUESTS	MS	SO	05/15/12	SCALE 1 TO 1		SHEET	REV.
Α		UPDATED PER CUSTOMER REQUESTS	MS	SO	03/21/12		11773-10	5 of 11	
REV	ECO NUMBER	DESCRIPTION	BY	APPD	DATE	01/06/12	11//3-10	3 " ' '	└





STUB UP DETAIL

☐ APPROVED AS IS — Manufacturing may proceed.
☐ APPROVED WITH NOTED CHANGES — Resubmit drawing; manufacturing may proceed.
NOT APPROVED − Correct drawing as noted and resubmit for approval before manufacturing begins.
BY: DATE:
COMPANY:
RETURNED APPROVAL DRAWINGS WITH SIGNATURE

RETURNED APPROVAL DRAWINGS WITH SIGNATURE
REQUIRED BEFORE ACS WILL BEGIN
MANUFACTURING PROCESS

7 of 11 E

QUOTE NO.: 1109038 REV. 2 PO NO.: 10-578

WO NO.: T.B.D.

JOB NAME: MOLYCORP

ACS MANUFACTURING, INC.

TOLERANCES (EXECUTIVE NOTED)

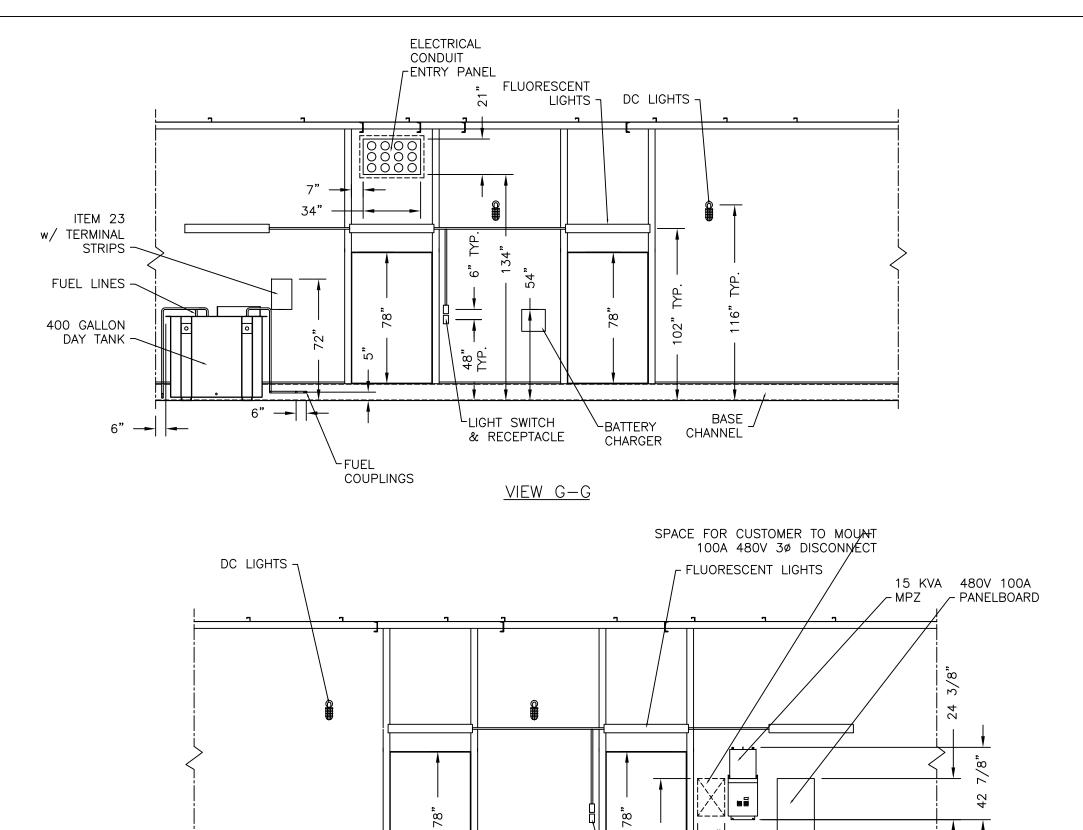
TOLERANCES (EXECUTIVE NOTE)

TOLERANCE BY:

T

11773-10

PROPRIETARY NOTICE
THIS DRAWING CONTAINS DESIGNS AND OTHER
INFORMATION WHICH ARE THE PROPERTY OF ACS
MANUFACTURING, INC. EXCEPT FOR THE RIGHTS GRANTED
EXPRESSELY BY CONTRACT, THIS DRAWING MAY NOT BE
DISCOSED ON DEPLOTED IN WHOLE OR IN PART OR
USE FOR THE PROPERTY DESIGNS DISCLOSED
HEREIN WITHOUT FRIGHT WRITTEN PERMISSION OF
ACS MANUFACTURING, INC.



VIEW F-F

FUEL SUPPLY -

& RETURN LINES

PROPRIETARY NOTICE

72,

LIGHT SWITCH

& RECEPTACLE

A REV ECO NUMBER

4" MERCHANT

ELECTRICAL

CONNECTION

COUPLING FOR

SEE OTHER SHEETS

UPDATED PER CUSTOMER REQUESTS

MOVED BATTERY CHARGER TO OPPOSITE SIDE

UPDATED PER CUSTOMER REQUESTS

UPDATED PER CUSTOMER REQUESTS

UPDATED PER CUSTOMER REQUESTS

DESCRIPTION

-BASE CHANNEL

NOTE: BAFFLES REMOVED FOR CLARITY

	APPROVED A	S IS — Man	ufacturing	may proceed.
	APPROVED W			
				as noted and ufacturing beg
В	Y:		D#	NTE:
С	OMPANY:			
	REQUI	PPROVAL DR RED BEFORE ANUFACTURII	ACS WILL	

QUOTE NO.: 1109038 REV. 2

PO NO.: 10-578 WO NO.: T.B.D. JOB NAME: MOLYCORP

CS MANUFACTURING, INC.

CHECKED BY:

SHEET

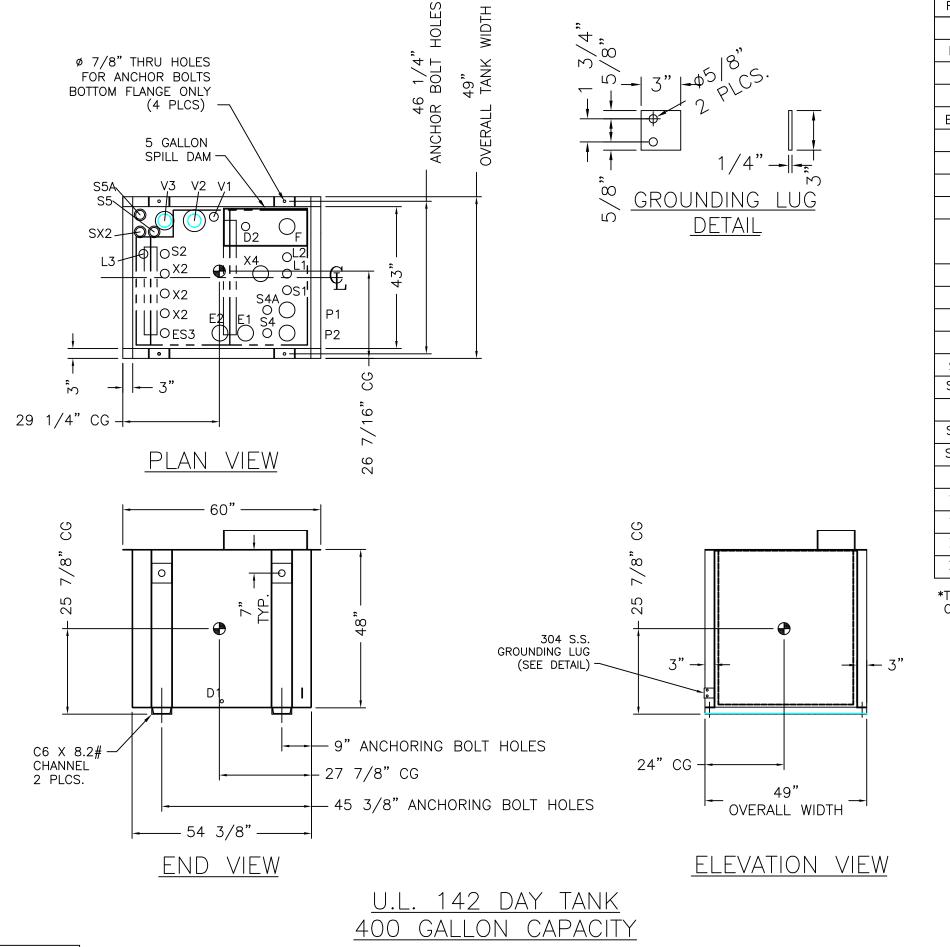
8 of 11

APPROVED BY: SO

rev.

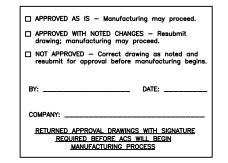
DRAWN BY: MTS
CHECKED BY:

				1601 COMMERCE BLVD DENISON, TEXAS -
			TOLERANCES (EXCEPT AS NOTED) DECIMAL + 0.125*	CASHMAN CAT
MS	SO	06/19/12	FRACTIONAL+ 1/8"	
MS	SO	06/08/12	= -/ -	
MS	SO	05/24/12	ANGULAR ± 3°	ACOUSTICAL ENCLOSURE ASSEMBLY
MS	SO	05/15/12	SCALE 1 TO 1	
MS	SO	03/21/12	DATE	DRAWING NUMBER 11773-10
BY	APPD	DATE	01/06/12	11//3-10



REF.	FITTING SIZE	DESCRIPTION
D1	1" NPT	TANK DRAIN - SECONDARY
D2	3/4" NPT	SPILL CONTAINMENT DRAIN
E1	4" NPT	ENGINE FUEL SUPPLY - 2" NPT DIP TUBE
E2	4" NPT	ENGINE FUEL RETURN — 2" NPT DIP TUBE
ES3	2" NPT	CRITICAL LOW LEVEL SWITCH (ENGINE SHUTDOWN) - N.C 10%
F	4" NPT	FUEL FILL W/ DUST CAP & 2" CAMLOCK - DRY CONNECT
L1	2" NPT	FUEL LEVEL GAUGE - DIRECT SITE READING
L2	2" NPT	FUEL LEVEL PROBE
L3	2" NPT	REDUNDANT FUEL LEVEL SENSOR - N.C 35% & N.C 85%
P1	4" NPT	PUMP IN - 2" NPT DIP TUBE (STORAGE TANK TO DAY TANK)
		WIRED TO GEN-SET CONTROL GUAGE
P2	4" NPT	PUMP OUT - 2" NPT DIP TUBE (DAY TANK TO STORAGE TANK)
		WIRED TO GEN-SET CONTROL GUAGE
S1	2" NPT	LOW LEVEL SWITCH - N.C 35%
S2	2" NPT	HIGH LEVEL SWITCH - N.O 90%
S4	2" NPT	CRITICAL HIGH LEVEL SWITCH - N.O 95%
S4A	2" NPT	CRITICAL HIGH LEVEL SWITCH - N.C 95%
S5	2" NPT	LEAK DETECTOR SWITCH - N.O.
S5A	2" NPT	LEAK DETECTOR SWITCH - N.C.
SX2	2" NPT	SPARE FITTING w/ PLUG - SECONDARY - (1)
V1	2" NPT	PRIMARY TANK NORMAL VENT - 2"
V2	4" NPT	EMERGENCY VENT - PRIMARY
V3	4" NPT	EMERGENCY VENT - SECONDARY
X2	2" NPT	SPARE FITTING w/ PLUG - (3)
X4	4" NPT	SPARE FITTING w/ PLUG - (1)
	ALARMS EXTE	NDED TO REACH FUEL TANK ANNUNCIATOR & GENSET

CONTROL PANEL VIA SEAL TIGHT



DRAWN BY: MTS
CHECKED BY:

ROVED BY: SO SHEET

REV.

CHECKED BY:

9 of 11

QUOTE NO.: 1109038 REV. 2

PO NO.: 10-578 WO NO .: T.B.D. JOB NAME: MOLYCORP

CS MANUFACTURING, INC.

11773-10

1601 COMMERCE BLVD. - DENISON, TEXAS - 75020 TOLERANCES (DEEPT AS NOTED)

ECIMAL ± 0.125

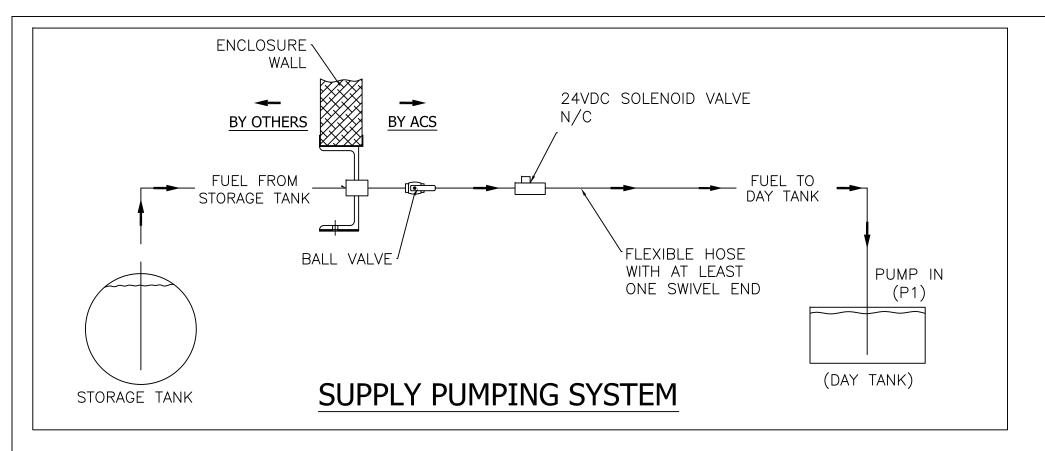
ACTIONAL ± 1/8"

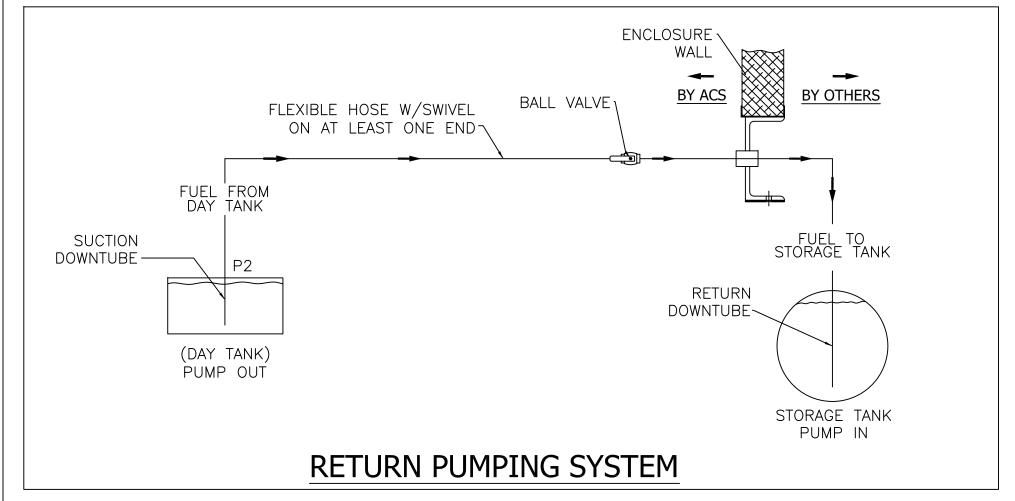
ULAR ± 3 T.

E 1 TO 1 CASHMAN CAT U.L. 142 STAND ALONE 400 GALLON CAPACITY FUEL TANK

						(EXCEPT AS NUTED)
						DECIMAL + 0.125
Ε		SEE OTHER SHEETS	MS	SO	06/10/12	FRACTIONAL + 1/8'
D		UPDATED PER CUSTOMER REQUESTS	MS	SO	06/08/12	, -
С		SEE SHEET 2	MS	SO	05/24/12	ANGULAR ± 3°
В		UPDATED PER CUSTOMER REQUESTS	MS	SO	05/15/12	SCALE 1 TO 1
Α		UPDATED PER CUSTOMER REQUESTS	MS	SO	03/21/12	DATE
REV	ECO NUMBER	DESCRIPTION	BY	APPD	DATE	01/06/12

PROPRIETARY NOTICE





☐ APPROVED AS IS - Manufacturing may proceed. ☐ APPROVED WITH NOTED CHANGES - Resubmit drawing; manufacturing may proceed.

 $\hfill \square$ NOT APPROVED - Correct drawing as noted and resubmit for approval before manufacturing begins.

RETURNED APPROVAL DRAWINGS WITH SIGNATURE
REQUIRED BEFORE ACS WILL BEGIN
MANUFACTURING PROCESS

QUOTE NO.: 1109038 REV. 2

PO NO.: 10-578 WO NO.: T.B.D. JOB NAME: MOLYCORP

CS MANUFACTURING, INC.

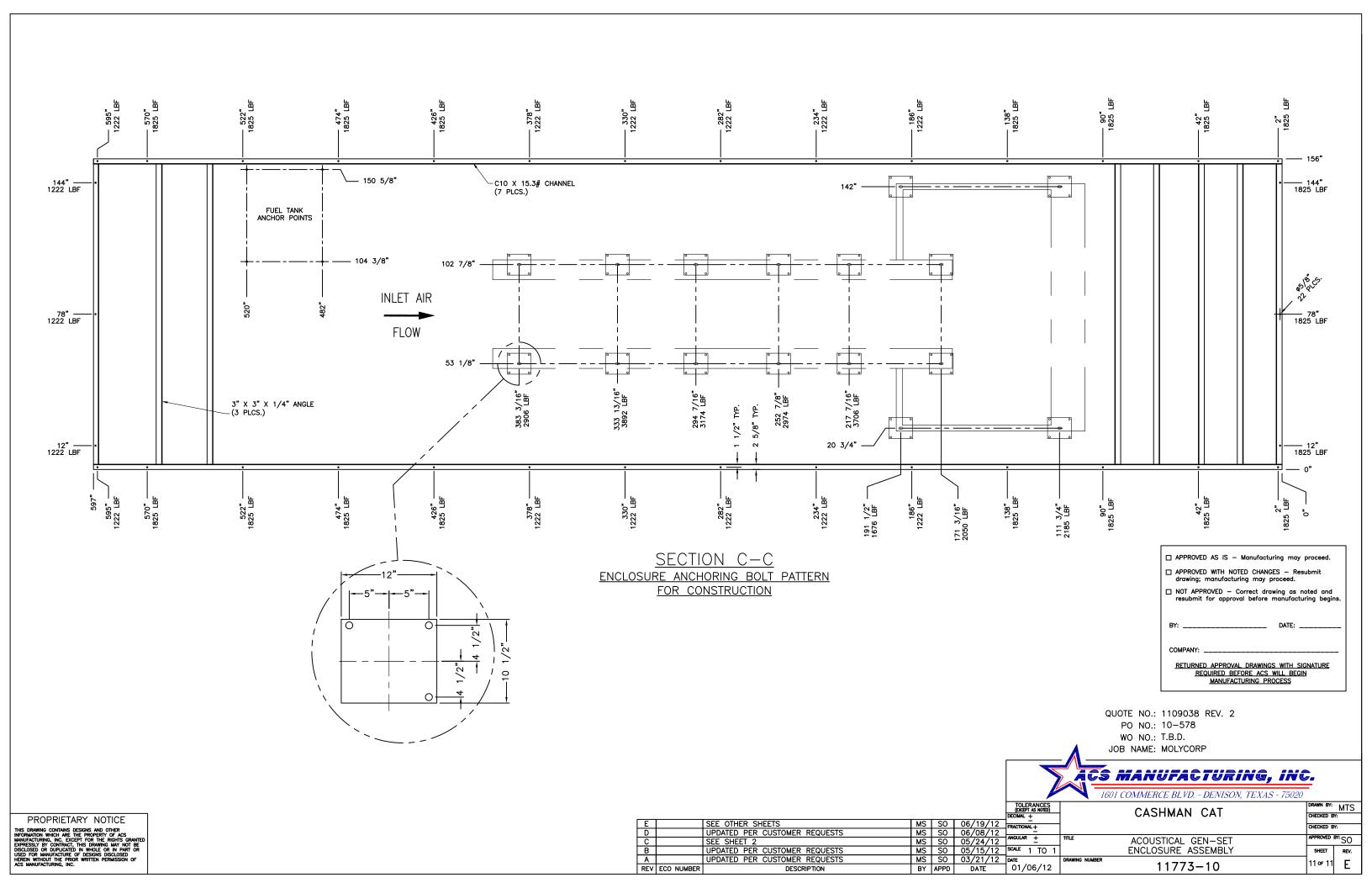
1601 COMMERCE BLVD. - DENISON, TEXAS - 75020

| MS | SO | 06/19/12 | FRACTIONAL ± 0.125" | MS | SO | 06/08/12 | FRACTIONAL ± 1/8" | MS | SO | 05/24/12 | ANGULAR ± 3' | MS | SO | 05/15/12 | SCALE | NTS | MS | SO | 03/21/12 | DATE | 01/06/12 | SEE SHEET 2
UPDATED PER CUSTOMER REQUESTS
UPDATED PER CUSTOMER REQUESTS

PROPRIETARY NOTICE

THIS DRAWING CONTAINS DESIGNS AND OTHER INFORMATION WHICH ARE THE PROPERTY OF ACS MANUFACTURING, INC., EXCEPT FOR THE RIGHTS GRAWITE DEVELOPES, YEY CONTRACT, THIS DRAWING MAY NOT BE DISCLOSED OR DUPLICATED IN WHOLE OR IN PART OR USED FOR MANUFACTURE OF DESIGNS DISCLOSED HEREIN WITHOUT THE PROTOK MEITTEN PREMISSION OR ACS MANUFACTURING, INC.

DRAWN BY: MTS
CHECKED BY: CASHMAN CAT CHECKED BY: PROVED BY: SO GEN-SET ACOUSTICAL ENCLOSURE ASSY.
DAY TANK CONTROLLER DETAILS SHEET 10of 11 11773-10



PANEL SCHEDULE APPARENT LOAD-NOT CALCULATED

NO.	LOAD DESCRIPTION	А	В	С	Α	В	С	LOAD	CRIPTION	NO.		
1			20			0				CE	2	
3	3 JACKET WATER HEATER						0			SPA	CE	4
5				20			15	SDA	HEATER	6		
7	15KVA MINI POWER ZONE					15			31 /	ILATEIX	8	
9	TORVA MINI FOWER Z	ONE		50			0			CE	10	
			\downarrow	\downarrow	↓	\downarrow	\downarrow	↓				
		A	70			15			TOTAL→	85	AMPS	
	В			70			0		TOTAL→	70	AMPS	
	С				20			15	TOTAL→	35	AMPS	

ΓΙΟΝ	NO.	
	2	
	4	
ER	6	
LIX	8	
	10	
PS		
PS		
PS		
		J

	ELECTRICAL BILL OF MATERIAL
QTY	DESCRIPTION
1	NEMA 3R, 277/480V, 100A MAIN BREAKER, THREE PHASE,
	NON-FUSED, DISTRIBUTION PANEL
	w/65K AIC BOLT ON BREAKERS TYPE EJB
1	EQUIPMENT GROUND BAR
1	5kW SPACE HEATER 480V 1Ø
1	15 AMP TWO POLE BREAKER EJB 65kVA
1	20 AMP THREE POLE BREAKER EJB 65kVA
1	50 AMP TWO POLE BREAKER EJB 65kVA
1LT.	EMT CONDUIT, SEAL TIGHT & COMPRESSION FITTINGS
	DDODDIETADY MOTIOE

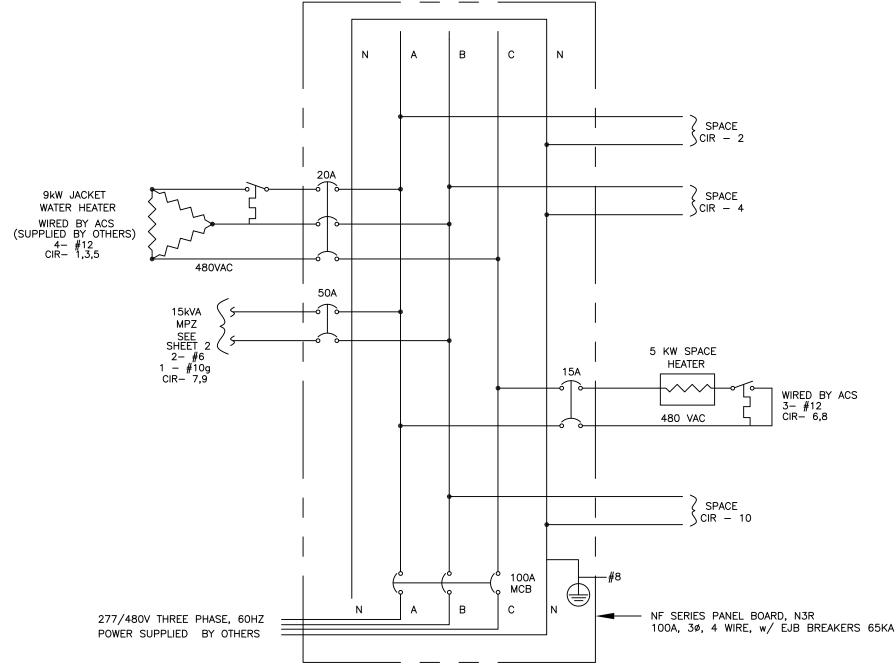
PROPRIETARY NOTICE

THIS DRAWING CONTAINS DESIGNS AND OTHER INFORMATION WHICH ARE THE PROPERTY OF ACS MANUFACTURING, INC. EXCEPT FOR THE RIGHTS GRANTED EXPRESSLY BY CONTRACT, THIS DRAWING MAY NOT BE DISCLOSED OR DUPLICATED IN WHILL OR IN PART OR USED FOR MANUFACTURE OF DESIGNS DISCLOSED HEREIN WITHOUT THE PRIOR WRITTEN PERMISSION OF ACS MANUFACTURING, INC.

ELECTRICAL NOTES:

1) INSTALL BOND ON ENCLOSURE.

2) INSTALL GROUND WIRE IN EVERY RACEWAY.



☐ APPROVED WITH NOTED CHANGES - Resubmit drawing; manufacturing may proceed. □ NOT APPROVED - Correct drawing as noted and resubmit for approval before manufacturing begins.

☐ APPROVED AS IS — Manufacturing may proceed.

RETURNED APPROVAL DRAWINGS WITH SIGNATURE REQUIRED BEFORE ACS WILL BEGIN MANUFACTURING PROCESS

REV.

QUOTE NO.: 1109038 REV. 2 PO NO.: 10-578

WO NO.: TBD JOB NAME: MOLYCORP

CS MANUFACTURING, INC.

1601 COMMERCE BLVD. - DENISON, TEXAS - 75020 DRAWN BY: MTS
CHECKED BY:

CASHMAN CAT

						FRACTIONA	"± N//
С	_	UPDATED DAY TANK CONTROLLER	MS	SO	08/22/12	ANGULAR	± N/
В	_	UPDATED PER CUSTOMER REQUESTS	MS	SO	06/26/12	SCALE	N/A
Α	_	UPDATED PER CUSTOMER REQUESTS	MS	SO	03/21/12	DATE	
REV	ECO NUMBER	DESCRIPTION	BY	APPD	DATE	01/0	06/12

CHECKED BY: PPROVED BY: SO ACOUSTICAL ENCLOSURE ASSEMBLY ELECTRICAL SCHEMATIC SHEET 1 of 5 11773-10E

PANEL SCHEDULE APPARENT LOAD-NOT CALCULATED

NO.	LOAD DESCRIPTION	٧	А	В	Α	В	LOAD DESCRIPTION				
1	ALT HEATER		10 20 INTERIOR LIGHTS					2			
3	BATTERY CHARGER			20		20	DU	DUPLEX RECEPTACLE			4
5	SPACE		0		30		DAY TANK CONTROL				6
7	SPACE			0		30	DAT TANK CONTROL				
			\downarrow	→	\downarrow	\rightarrow					
		Α	10		50		TOTAL→	60	AMPS		
				20		50	TOTAL→	70	AMPS		

ELECTRICAL NOTES:

- 1) INSTALL BOND ON ENCLOSURE.
- 2) INSTALL GROUND WIRE IN EVERY RACEWAY.
- 3) EXTEND TANK ALARMS TO FUEL TANK ANNUNCIATOR & GENSET CONTROL VIA SEAL TIGHT.

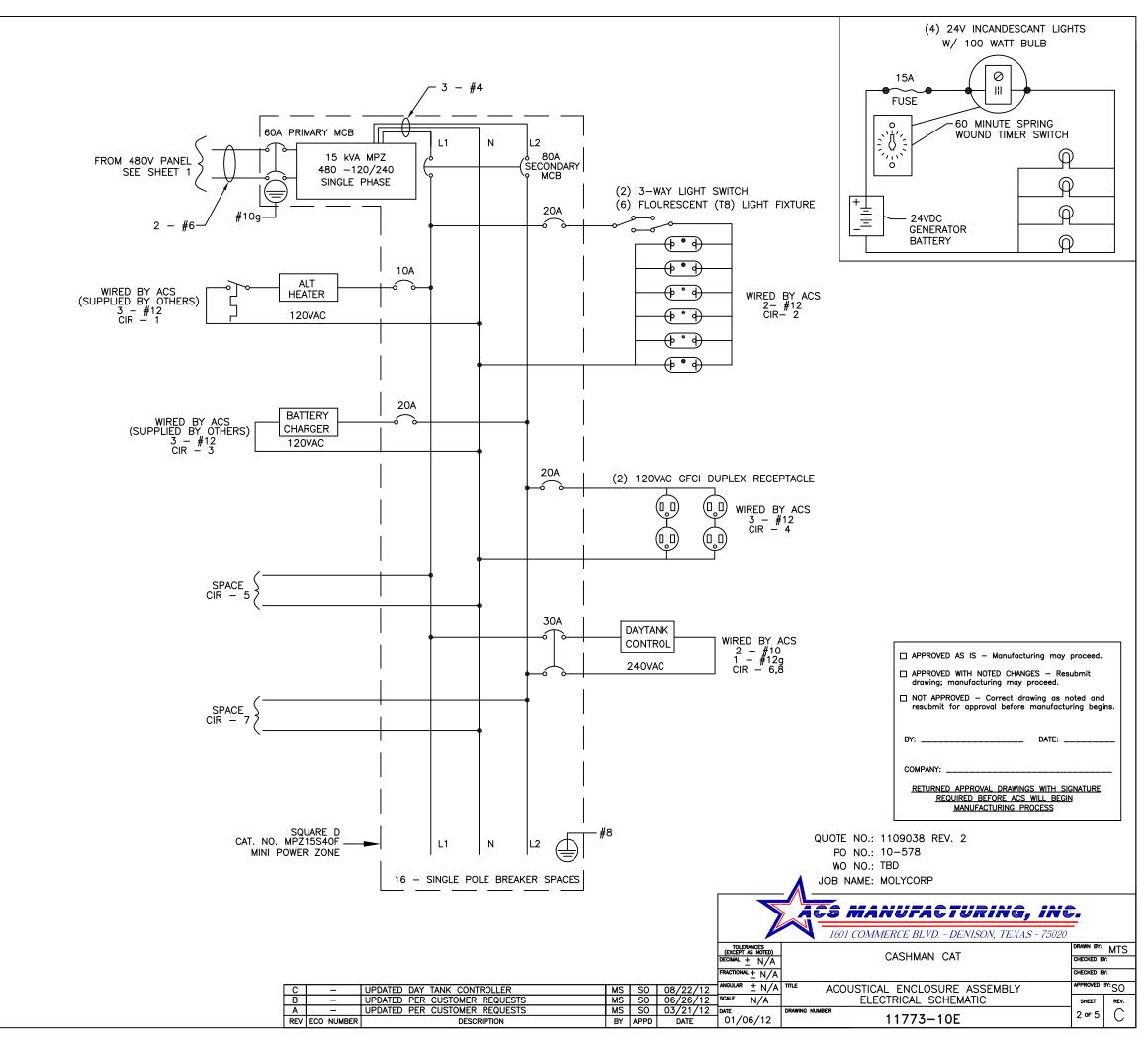
NOTICE

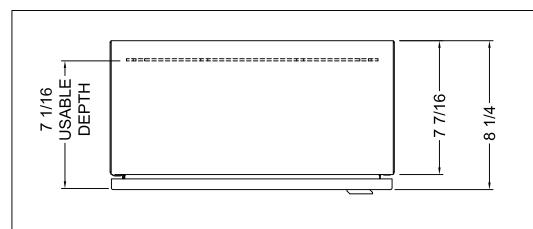
- 1) RUN CONDUIT FOR JACKET WATER HEATER OVERHEAD — NOT ON FLOOR
- 2) FASTEN CONDUIT FROM CONTROLLER TO DAY
 TANK FLOATS ALONG THE ENCLOSURE WALL.
 LEAVE AT LEAST AN EXTRA 12" OF FLEX & WIRE
 TO REACH DAY TANK FLOATS.

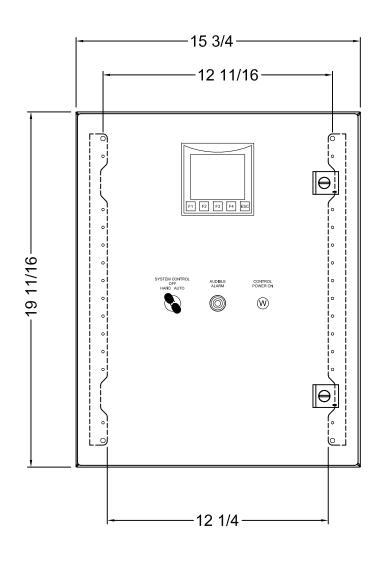
ELECTRICAL BILL OF MATERIAL					
QTY	DESCRIPTION				
1	SQUARE D MINI POWER ZONE, 15KVA, 480V-120/240V, 1PH,				
	NEMA 3R DISTRIBUTION PANEL 16 CIRCUIT 80A				
	w/ 15KAIC BOLT ON BREAKERS TYPE QOB				
1	EQUIPMENT GROUNDING BLOCK				
6	FLUORESCENT (T8) LIGHT FIXTURE				
2	3-WAY LIGHT SWITCH				
2	20 AMP GFCI DUPLEX RECEPTACLE				
4	EMERGENCY DC LIGHT FIXTURE 100WATT INCANDESCANT WITH				
	GLASS GLOBE AND WIRE GUARD 24V				
1	TIMER, SPRING WOUND, 0-60 SEC DC				
1	ACS DAY TANK CONTROL 240V				
1	10 AMP SINGLE POLE BREAKER QOB				
3	20 AMP SINGLE POLE BREAKER QOB				
1	30 AMP DOUBLE POLE BREAKER QOB				
1LT.	EMT CONDUIT, SEAL TIGHT & COMPRESSION FITTINGS				

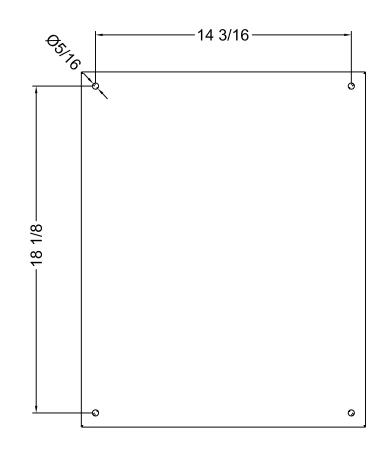
PROPRIETARY NOTICE

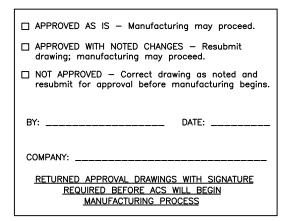
THIS DRAWING CONTAINS DESIGNS AND OTHER INFORMATION WHICH ARE THE PROPERTY OF ACS MANUFACTURING, INC. EXCEPT FOR THE RIGHTS GRANTED EXPRESSLY BY CONTRACT, THIS DRAWING MAY NOT BE DISCLOSED OR DUPLICATED IN WHICH OR IN PART OR USED FO MANUFACTURING FOR EXAMPLE PERMISSION OF ACS MANUFACTURING, INC.

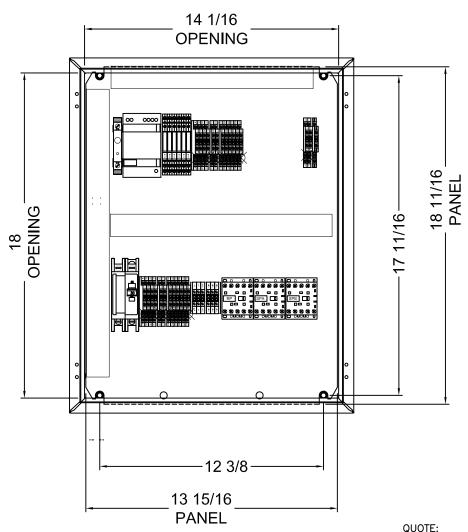












QUOTE: 1109038 REV. 2

PO NO.: 10-578 WO NO.: TBD JOB NAME: MOLYCORP

CS MANUFACTURING, INC. 1601 COMMERCE BLVD. - DENISON, TEXAS - 75020

DRAWN BY: MTS
CHECKED BY: CASHMAN CAT CHECKED BY: ANGULAR ± N/A DAY TANK CONTROLLER CABINET DETAIL PPROVED BY: SO SCALE N/A SHEET REV.

PROPRIETARY NOTICE

THIS DRAWING CONTAINS DESIGNS AND OTHER INFORMATION WHICH ARE THE PROPERTY OF ACS MANUFACTURING, INC. EXCEPT FOR THE RIGHTS GRANTED EXPRESSLY BY CONTRACT, THIS DRAWING MAY NOT BE DISCLOSED OR DUPLICATED IN WHILL OF IN PART OR USED FOR MANUFACTURE OF DESIGNS DISCLOSED HEREIN WITHOUT THE PROPE WRITTEN PERMISSION OF ACS MANUFACTURING, INC.

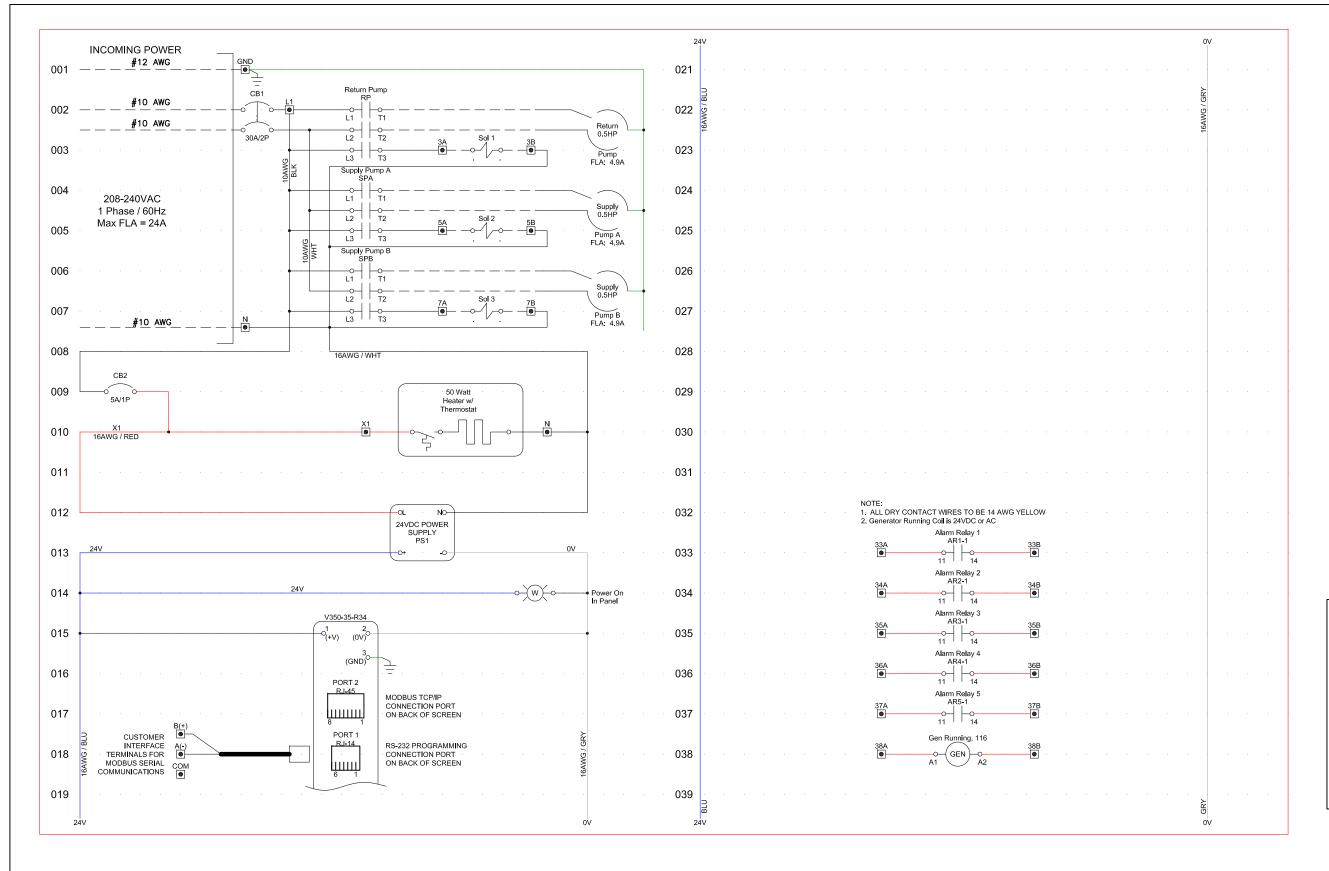
- - - REV ECO NUMBER

DESCRIPTION

 BY
 APPD
 DATE

DATE 08/18/12

3 of 5 11773-10E

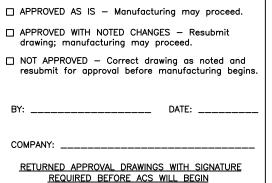


REV ECO NUMBER

DESCRIPTION

BY APPD

DATE



QUOTE: 1109038 REV. 2 PO NO.: 10-578

MANUFACTURING PROCESS

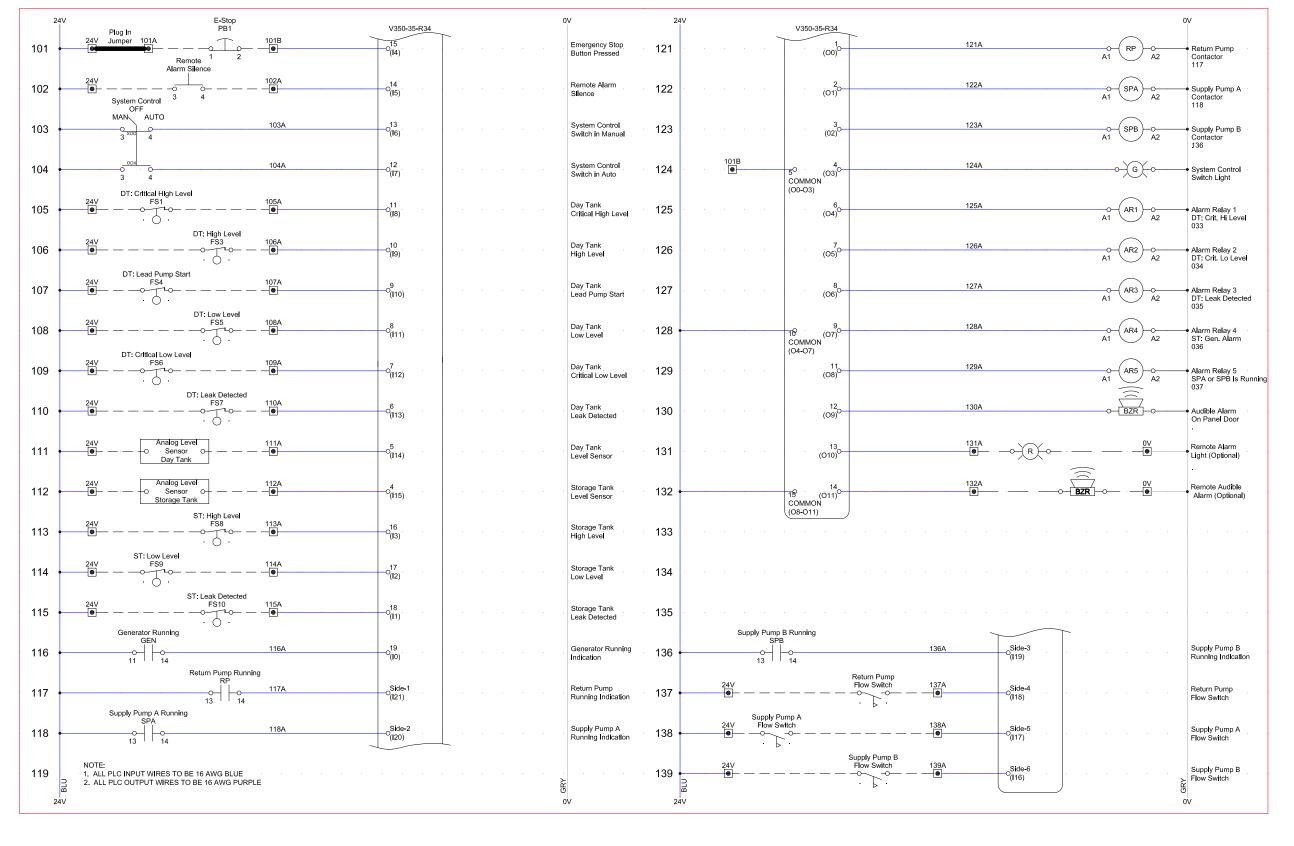
WO NO.: TBD

JOB NAME: MOLYCORP



PROPRIETARY NOTICE

THIS DRAWING CONTAINS DESIGNS AND OTHER INFORMATION WHICH ARE THE PROPERTY OF ACS MANUFACTURING, INC. EXCEPT FOR THE RIGHTS GRANTED EXPRESSLY BY CONTRACT, THIS DRAWING MAY NOT BE DISCLOSED OR DUPLICATED IN WHILL OR IN PART OR USED FO MANUFACTURING DESCRIPTION OF ACS MANUFACTURING, INC.



REV ECO NUMBER

DESCRIPTION

BY APPD

DATE

□ APPROVED AS IS — Manufacturing may proceed.
□ APPROVED WITH NOTED CHANGES — Resubmit drawing; manufacturing may proceed.
□ NOT APPROVED — Correct drawing as noted and resubmit for approval before manufacturing begins.

BY: _______ DATE: ______

COMPANY: _______

RETURNED APPROVAL DRAWINGS WITH SIGNATURE REQUIRED BEFORE ACS WILL BEGIN MANUFACTURING PROCESS

QUOTE: 1109038 REV. 2 PO NO.: 10-578

WO NO.: TBD

JOB NAME: MOLYCORP

<u> </u>	_		
		<i>Facturin</i>	
	1601 COMMERCA	E BLVD DENISON, TE	EXAS - 75020

	1601 COMMERCE BLVD DENISON, TEXAS - 75020		
TOLERANCES (EXCEPT AS NOTED)	CASHAANI CAT	DRAWN BY:	MTS
DECIMAL ± N/A	CASHMAN CAI	CHECKED B	Y:
FRACTIONAL ± N/A		CHECKED B	
ANGULAR ± N/A	DAY TANK CONTROLLER		BY:SC
SCALE N/A	ELECTRICAL SCHEMATIC	SHEET	REV.
DATE	DRAWING NUMBER	5 of 5	
08/18/12	11773-10E	5 - 5	

PROPRIETARY NOTICE

THIS DRAWING CONTAINS DESIGNS AND OTHER INFORMATION WHICH ARE THE PROPERTY OF ACS MANUFACTURING, INC. EXCEPT FOR THE RIGHTS GRANTED EXPRESSLY BY CONTRACT, THIS DRAWING MAY NOT BE DISCLOSED OR DUPLICATED IN WHICH OR IN PART OR USED FO MANUFACTURING OR IN PART OR USED FOR MANUFACTURING OF ACS MANUFACTURING, INC.