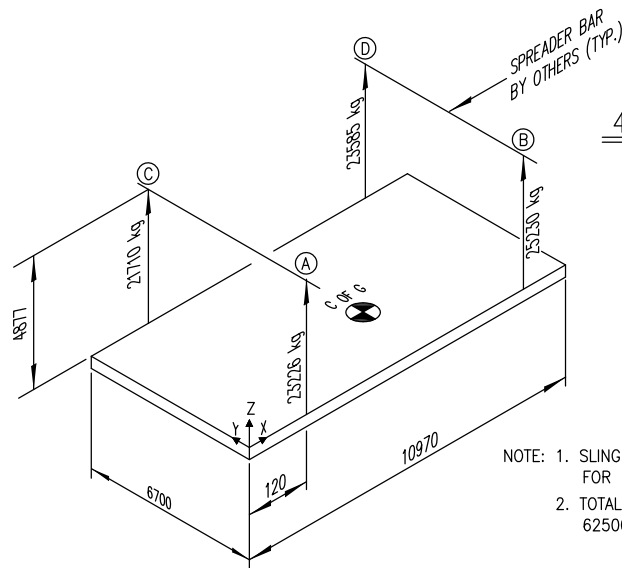


THE DESIGN IT COVERS ARE CONFIDENTIAL AND THE PROPERTY OF PROPAK SYSTEMS LTD., AND SHALL NOT BE DISCLOSED TO OTHERS OR REPRODUCED IN ANY MANNER OR USED FOR ANY PURPOSE WHATSOEVER EXCEPT BY WRITTEN CONSENT OF PROPAK.



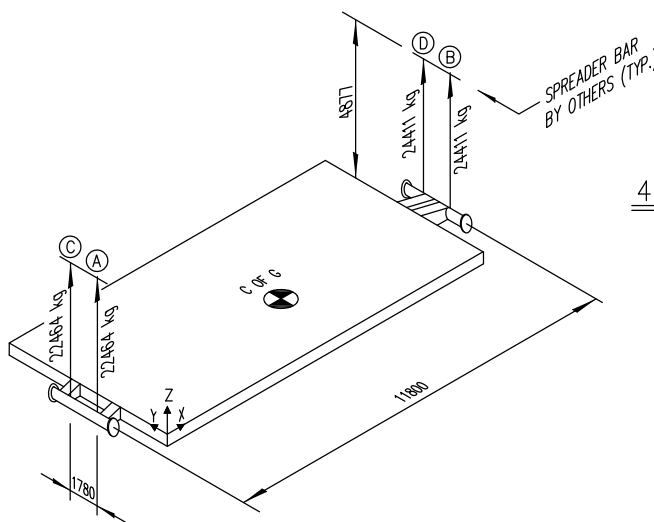
4 POINT LIFTING DIAGRAM (LUGS)

N.T.S.

CENTER OF GRAVITY
(DISTANCE FROM DATUM)

X= 5705 mm
Y= 3235 mm
Z= 460 mm

- NOTE: 1. SLING LOADS INCLUDE 50% EXCESS FOR DYNAMIC LOADINGS.
2. TOTAL ASSEMBLED UNIT WEIGHT: 62500 kg (APPROX.)



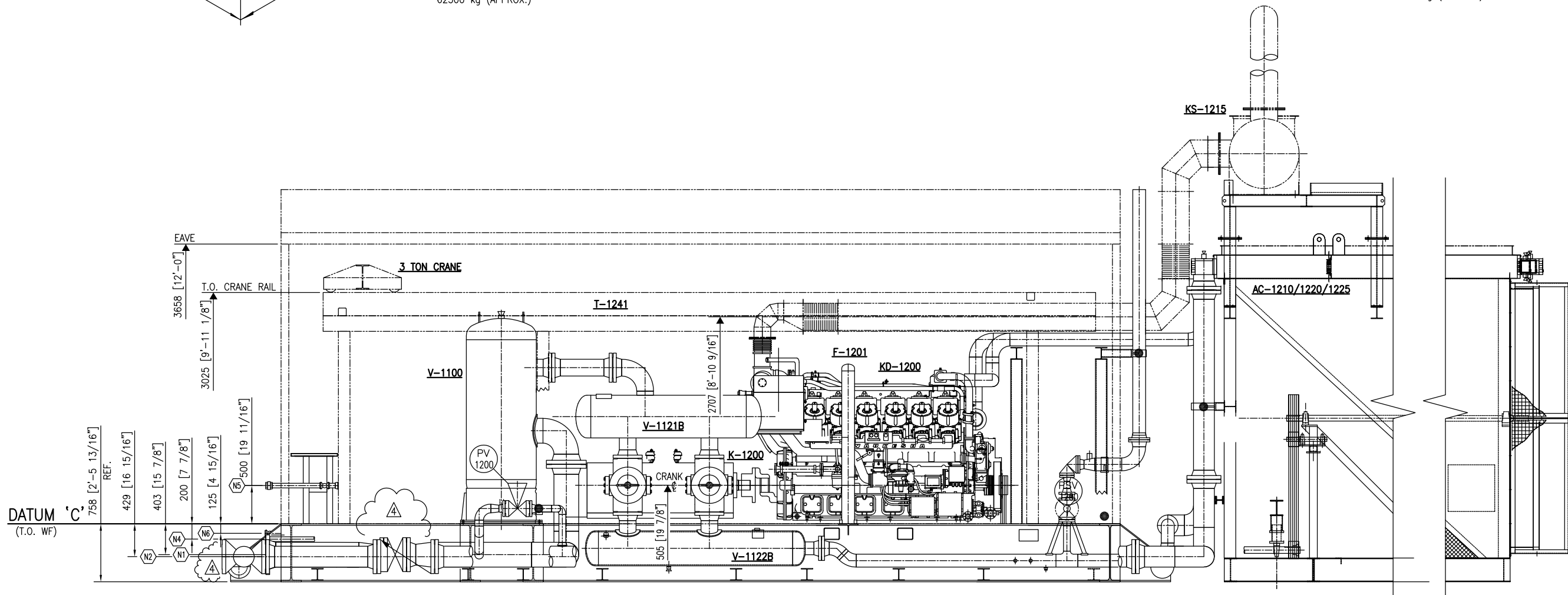
4 POINT LIFTING DIAGRAM (TOW BAR)

N.T.S.

CENTER OF GRAVITY
(DISTANCE FROM DATUM)

X= 5705 mm
Y= 3235 mm
Z= 460 mm

- NOTE: 1. SLING LOADS INCLUDE 50% EXCESS FOR DYNAMIC LOADINGS.
2. TOTAL ASSEMBLED UNIT WEIGHT: 62500 kg (APPROX.)



VIEW "A-A"

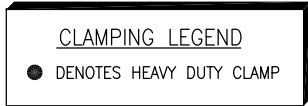
CLAMPING LEGEND

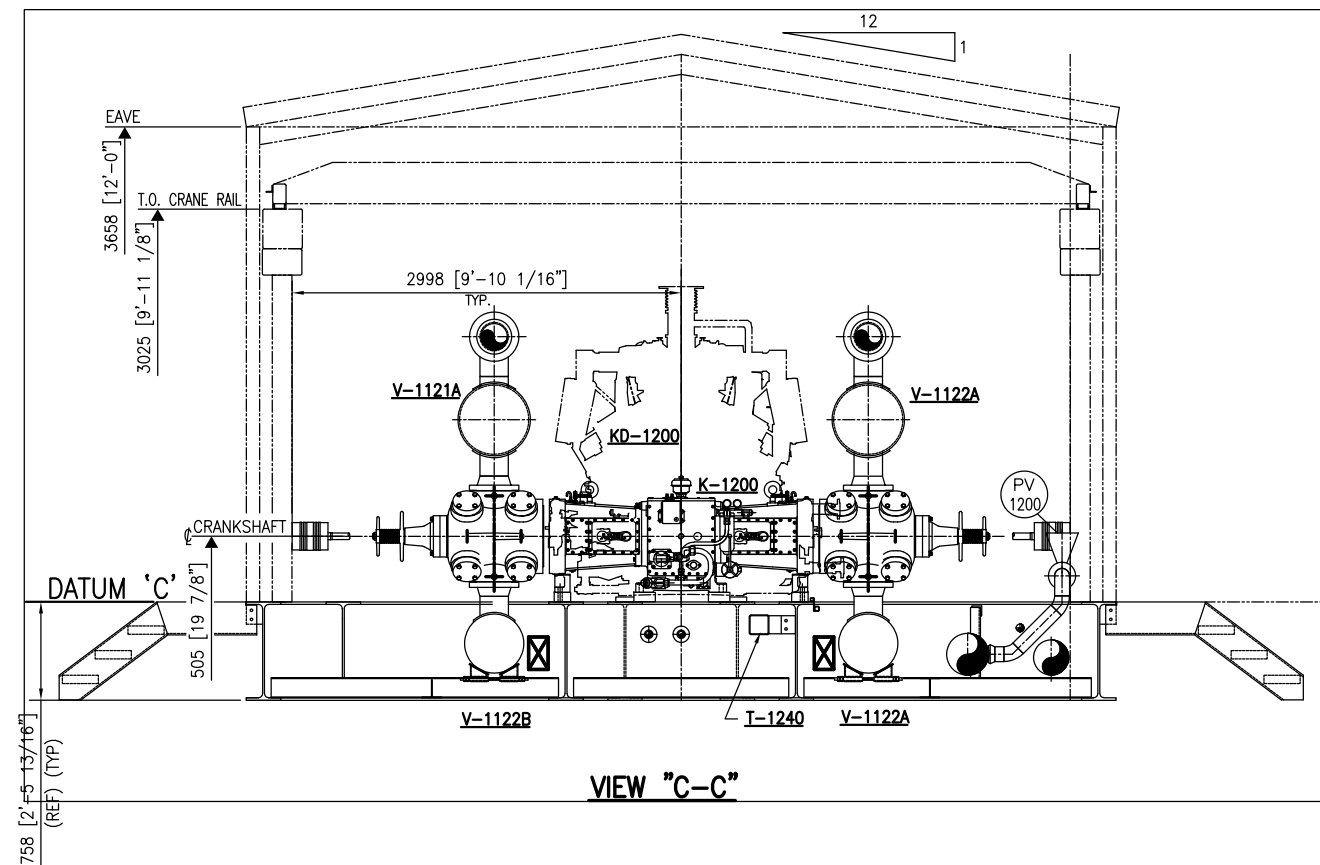
● DENOTES HEAVY DUTY CLAMP

GENERAL NOTES						REVISION						APPROVED		DRAWN		TOM BROWN INC			
DATE: 2003/06/24 09:42 AM J:\JOBS03\031104\20-DRAWINGS\COMP\ASY\D-ASY-031104-152.DWG						BY DATE CKD ENG						MECH./STRUCT.		BY E.ANDREWS		PAVILLION SOUTH COMPRESSOR			
												DATE		DATE 03/04/15		Postal Bag #2			
												ELECTRICAL		CHECKED		1478 HP SINGLE STAGE COMPRESSOR PKG			
												DATE		BY S.FARWELL		Airdrie, Alberta			
												PROJECT L.VADNAI		DATE 03/04/28		Canada T4B 2C3			
												DATE 03/04/28		SCALE 1:30		DWG. No.: D-ASY-031104-152			
																SHEET 2 OF 4			
																REV. 4			

PROPAK

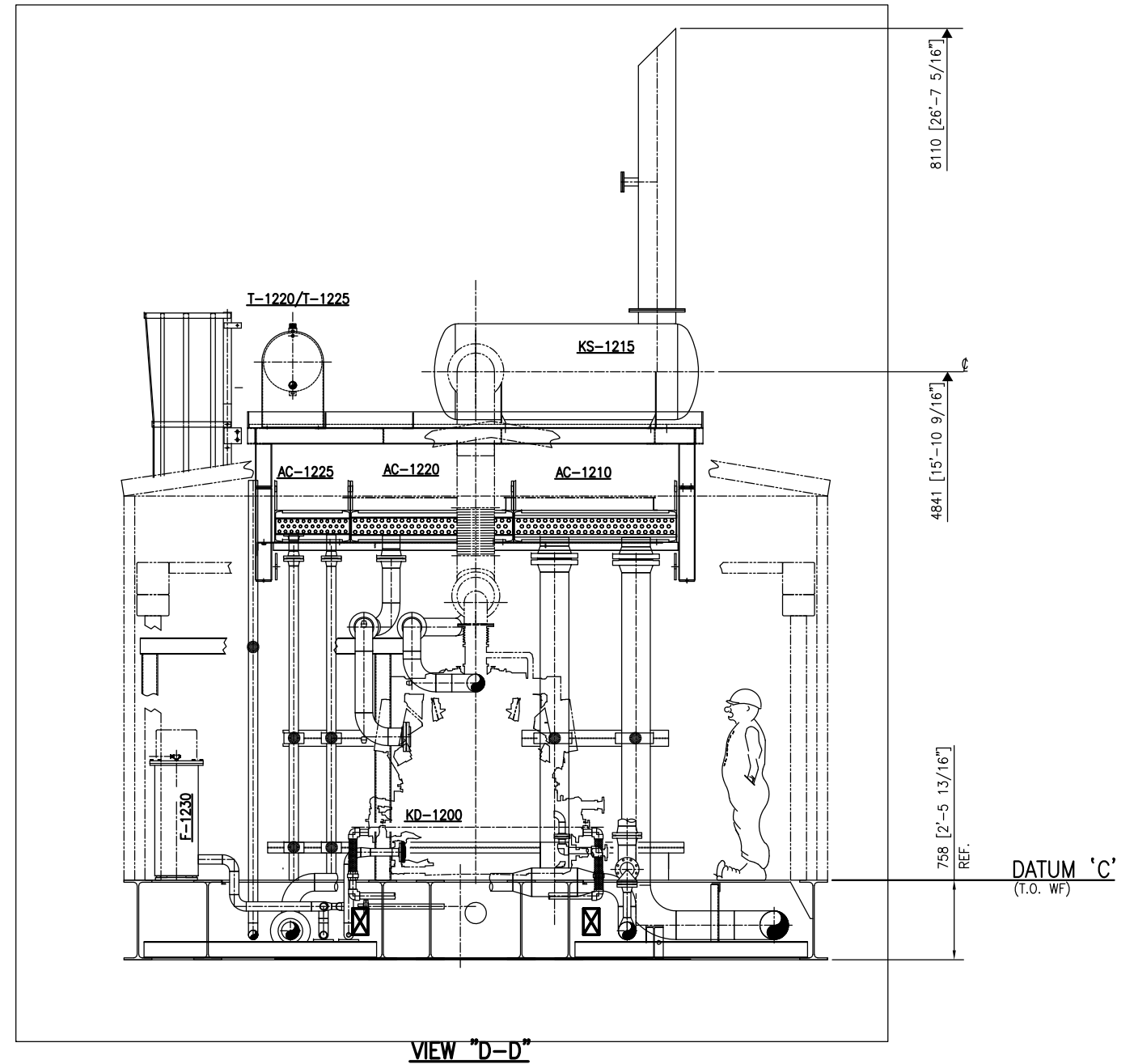
440 East Lake Road,
Postal Bag #2
Airdrie, Alberta
Canada T4B 2C3

[illegible]



NOTE: JACKSHAFT ELEVATION -343 FROM DATUM 'C'

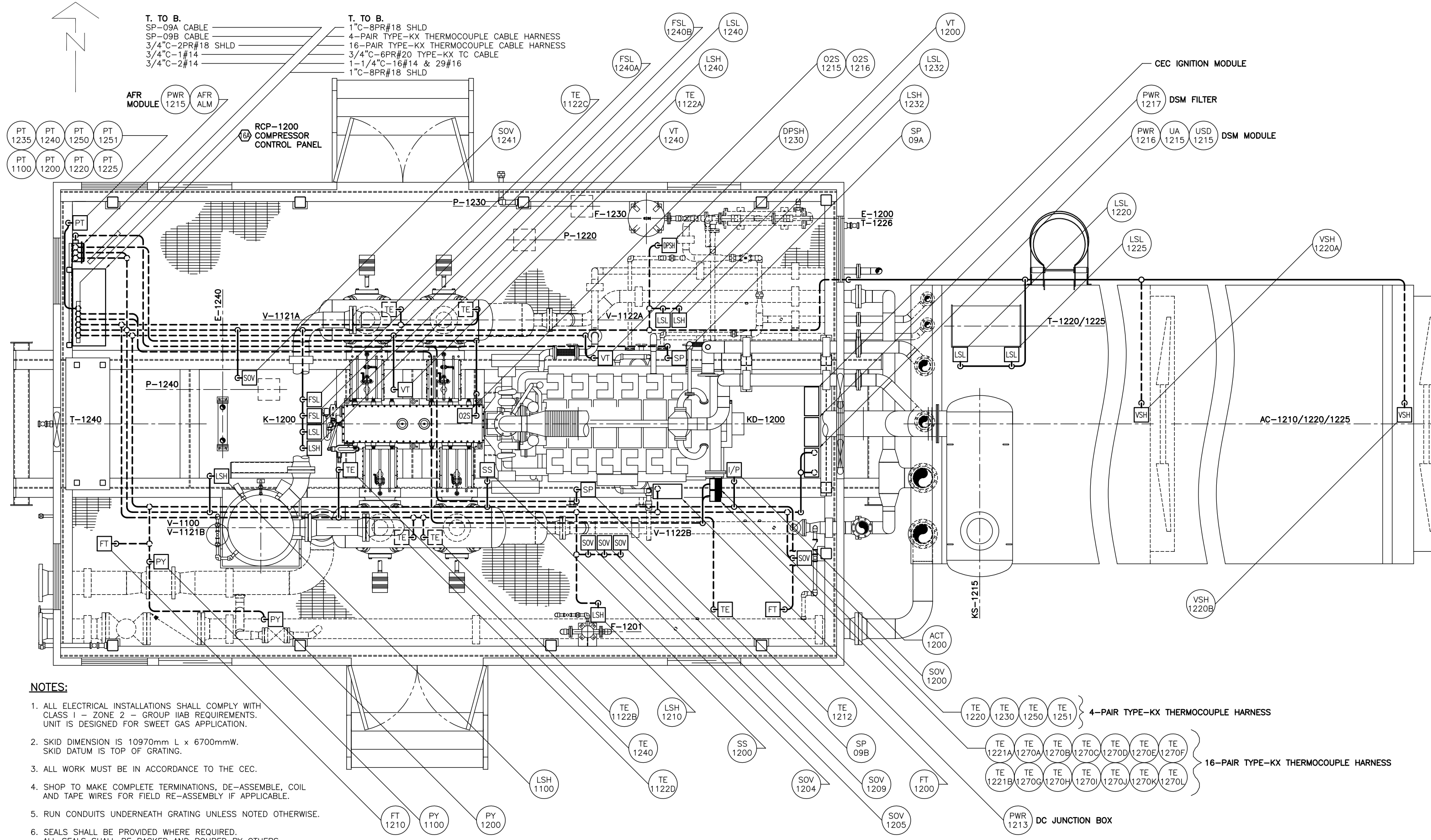
 THIS SYMBOL DENOTES 150x250 AREA RESERVED FOR ELECTRICAL CONDUIT ONLY.



CLAMPING LEGEND

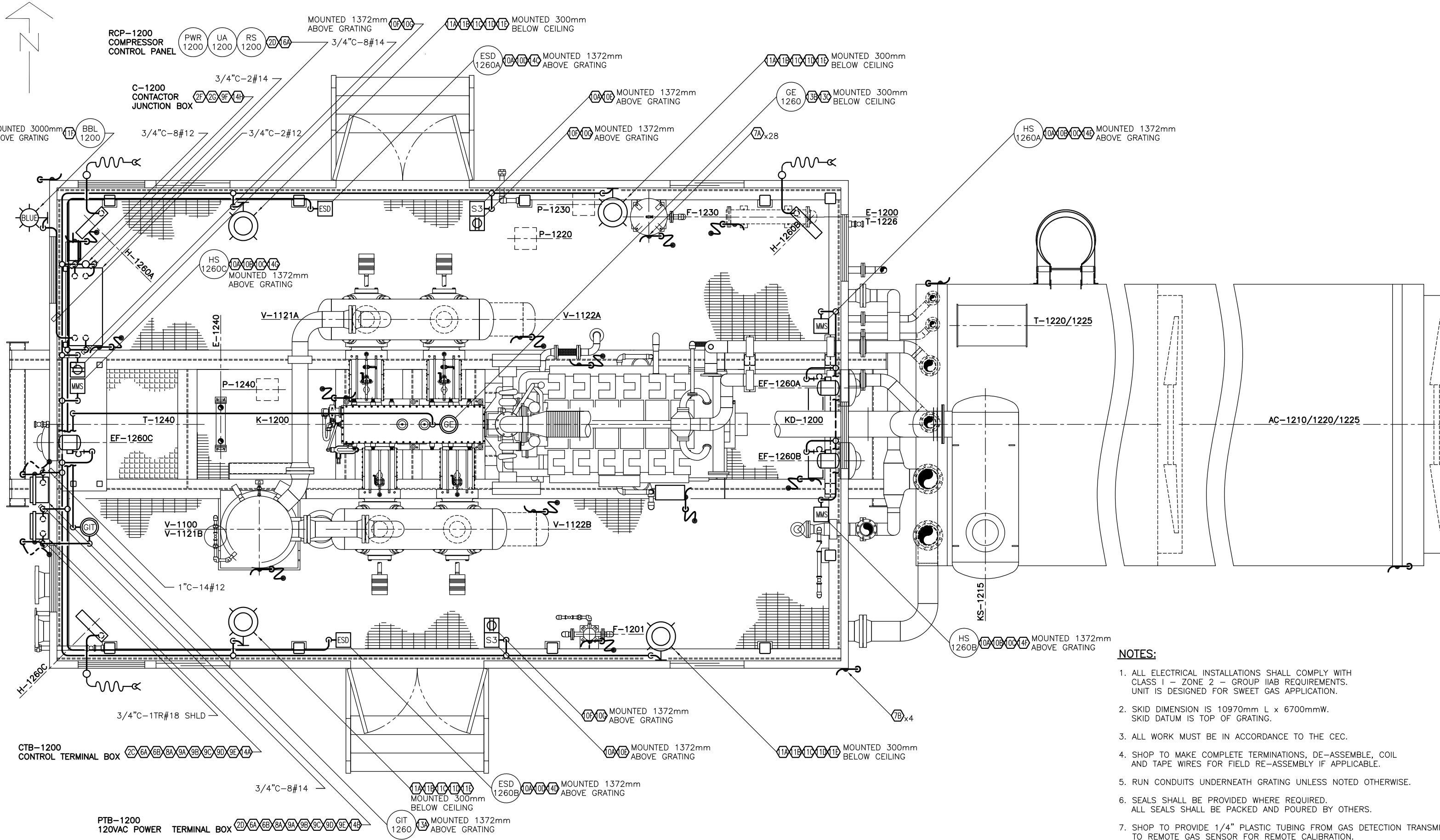
● DENOTES HEAVY DUTY CLAMP

[illegible]



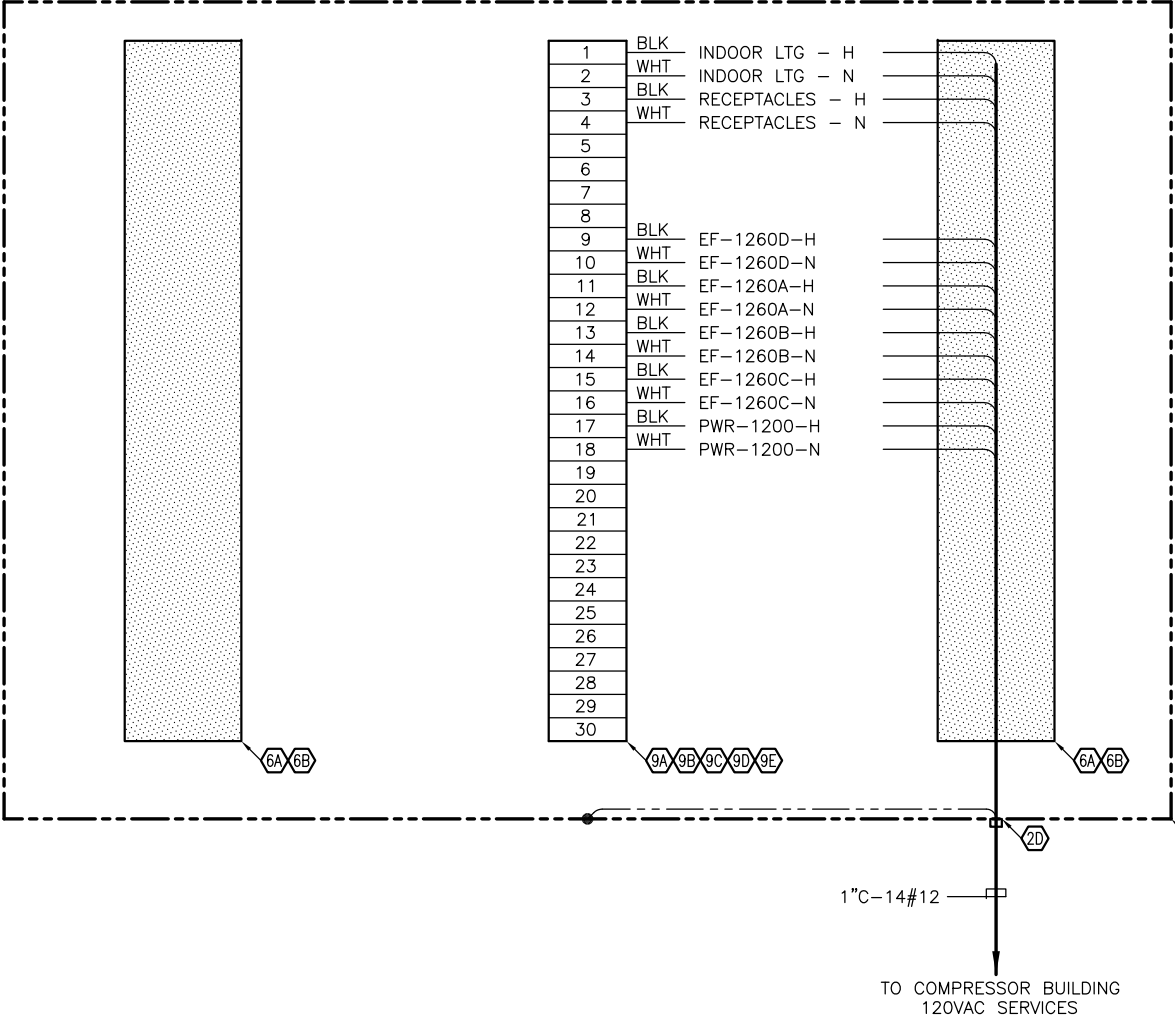
NOTES:

1. ALL ELECTRICAL INSTALLATIONS SHALL COMPLY WITH CLASS I - ZONE 2 - GROUP IIAB REQUIREMENTS. UNIT IS DESIGNED FOR SWEET GAS APPLICATION.
2. SKID DIMENSION IS 10970mm L x 6700mmW. SKID DATUM IS TOP OF GRATING.
3. ALL WORK MUST BE IN ACCORDANCE TO THE CEC.
4. SHOP TO MAKE COMPLETE TERMINATIONS, DE-ASSEMBLE, COIL AND TAPE WIRES FOR FIELD RE-ASSEMBLY IF APPLICABLE.
5. RUN CONDUITS UNDERNEATH GRATING UNLESS NOTED OTHERWISE.
6. SEALS SHALL BE PROVIDED WHERE REQUIRED. ALL SEALS SHALL BE PACKED AND POURED BY OTHERS.



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 6. SEALS SHALL BE PROVIDED WHERE REQUIRED. ALL SEALS SHALL BE PACKED AND POURED BY OTHERS.
 7. SHOP TO PROVIDE 1/4" PLASTIC TUBING FROM GAS DETECTION TRANSMITTER TO REMOTE GAS SENSOR FOR REMOTE CALIBRATION.

BILL OF MATERIALS				
ITEM	QTY	DESCRIPTION	CATALOG # AND MANUFACTURER	VISION #
S 1A	AS REQ'D	RIGID ALUMINUM CONDUIT	—	—
S 2A	AS REQ'D	FORM-8 COPPER - FREE ALUMINUM CONDULET CONDUIT OUTLET BODIES	CROUSE HINDS FORM-8	—
S 2B	AS REQ'D	COPPER FREE ALUMINUM SEALS	CROUSE HINDS EY	—
2C	2	3/4" COPPER FREE ALUMINUM CONDUIT HUB C/W GROUNDING LOCK-NUT	THOMAS & BETTS H075 GRCA	525111
2D	2	1" COPPER FREE ALUMINUM CONDUIT HUB C/W GROUNDING LOCK-NUT	THOMAS & BETTS H100 GRCA	525112
2E	—	1-1/4" COPPER FREE ALUMINUM CONDUIT HUB C/W GROUNDING LOCK-NUT	THOMAS & BETTS H125 GRCA	525113
2F	1	1-1/2" COPPER FREE ALUMINUM CONDUIT C-FITTING	APPLETON GRC 150A	576034
2G	1	1-1/2"-3/4" COPPER-FREE ALUMINUM REDUCER	—	525019
S 3A	AS REQ'D	#12 AWG RW90XL, 600V, STRANDED WIRE	—	—
S 3B	AS REQ'D	#14 AWG RW90XL, 600V, STRANDED WIRE	—	—
S 3C	AS REQ'D	1 TRIAD #18 AWG PVC, 300V, TWISTED SHIELDED CABLE	—	—
6A	1	SLOTTED WIRING DUCT, 50mmW x 76mmD. LIGHT GREY, 2 METER LENGTHS	TAYLOR T2 X 3HDG	545106
6B	1	SLOTTED WIRING DUCT COVER, 50mmW. LIGHT GREY, 2 METER LENGTHS	TAYLOR T2CG	545128
7A	28	GROUND TO EQUIPMENT SERVIT-POST, #8-#1 AWG CONDUCTORS	THOMAS & BETTS SP4SS	506507
7B	4	GROUND TO EQUIPMENT SERVIT-POST, #2-#2/O AWG CONDUCTORS	THOMAS & BETTS SP6SS	505031
8A	2	414mmH X 365mmW X 207mmD, WP, NEMA-4X FIBERGLASS TERMINAL BOX c/w BACK-PAN & MOUNTING FEET KIT	HAMMOND PJ16148RT c/w 14R1513	535535
9A	70	TERMINAL BLOCKS, TYPE WDU/4	WEIDMULLER 102010	501070
9B	6	TERMINAL END BRACKETS FOR 35 RAIL, TYPE EW35	WEIDMULLER 38356	501032
9C	3	TERMINAL END PLATE FOR WDU/4, TYPE WAP 2.5-10	WEIDMULLER 105000	501019
9D	1	MOUNTING RAIL 35, TYPE TS 35, 2M LENGTHS	WEIDMULLER 51450	501074
9E	2	TERMINAL BLOCK MARKING TAGS, VERTICAL, 1-50, TYPE DEK 6	WEIDMULLER 0468760001	501039
9F	1	POWER RELAY, 25AMP, 4PST-NO, 24VDC INPUT, 120VAC OUTPUT	OMRON G7J-A-B	540030
10A	7	SINGLE GANG, FEED-THROUGH DEVICE BOX, 3/4" HUB	CROUSE HINDS EDSC-271SA	509250
10B	3	ON/OFF MANUAL MOTOR STARTER, 1-POLE, CL I - ZONE 1 - GROUP C & D	CROUSE HINDS DSFS 914	509286
10C	3	13.8AMP, 120VAC RATED HEATER	CUTLER-HAMMER MSH 17.1A	N/N
10D	2	ESD PUSH/PULL MUSHROOM BUTTON, MAINTAINED CONTACT, CL I - ZONE 1 - GROUP C & D	CROUSE HINDS DSD918 SAS769	509215
10E	2	3-WAY SNAP SWITCH, 20AMP, 120VAC, CL I - ZONE 1 - GROUP C & D	CROUSE-HINDS DSD 936	509246
10F	3	RECEPTACLE, 20AMP, 3-POLE, 2-WIRE, 120VAC, CL I - ZONE 1 - GROUP C & D	APPLETON ECKS-2023C	537014
10G	3	SINGLE GANG MOUNTING BOX, 3/4" HUB	APPLETON ECS-175	509150
11A	4	175W METAL HALIDE BALLAST TANK, 120VAC, 60Hz., CL I - ZONE 1 - GROUP C & D, 3/4" HUB C/W GLOBE & GUARD	CROUSE-HINDS EVLP19171TT	532076
11B	4	WALL MOUNT TOP HAT, 120VAC, 60Hz., CL I - ZONE 1 - GROUP C & D, 3/4" HUB	CROUSE-HINDS EV87	532069
11C	4	30" ANGLE REFLECTOR FOR HPS WALL MOUNT	CROUSE-HINDS RD739	532039
11D	4	175W METAL HALIDE MEDIUM BASE LAMP, 120VAC, 60Hz.	PHILLIPS MH175U	N/N
11E	4	CEILING MOUNT TOP HAT, 120VAC, CL I - ZONE 1 - GROUP C & D	CROUSE-HINDS EV22M8	532068
11F	1	BLUE STROBE WARNING LIGHT, WALL MOUNT, 24VDC, XPROOF, CL I - ZONE - 2 GROUP C & D, 3/4" HUB	APPLIED STROBE TECH AST-4-1030-BL-SBM-75-CG	N/N
13A	1	COMBUSTIBLE GAS DETECTOR CONTROLLER, CL I - ZONE 1 - GROUP C & D, 3/4" HUB	GENERAL MONITORS S4000C-2-4-01	530101
13B	1	REMOTE SENSOR HOUSING, CL I - ZONE 1 - GROUP C & D, 3/4" HUB	GENERAL MONITORS 10252	530100
13C	1	REMOTE TEST GAS APPLICATOR	GENERAL MONITORS 10460-2	530109
14A	1	25mmH x 50mmW WHITE LAMICOID NAMEPLATE, BLACK LETTERING, ENGRAVED "CTB-1200"	POLTEC	500040
14B	1	25mmH x 50mmW WHITE LAMICOID NAMEPLATE, BLACK LETTERING, ENGRAVED "PTB-1200"	POLTEC	500040
14C	1	25mmH x 50mmW WHITE LAMICOID NAMEPLATE, BLACK LETTERING, ENGRAVED "ESD-1260A"	POLTEC	500040
14D	1	25mmH x 50mmW WHITE LAMICOID NAMEPLATE, BLACK LETTERING, ENGRAVED "ESD-1260B"	POLTEC	500040
14E	1	25mmH x 50mmW WHITE LAMICOID NAMEPLATE, BLACK LETTERING, ENGRAVED "HS-1260A"	POLTEC	500040
14F	1	25mmH x 50mmW WHITE LAMICOID NAMEPLATE, BLACK LETTERING, ENGRAVED "HS-1260B"	POLTEC	500040
14G	1	25mmH x 50mmW WHITE LAMICOID NAMEPLATE, BLACK LETTERING, ENGRAVED "HS-1260C"	POLTEC	500040
14H	1	25mmH x 50mmW WHITE LAMICOID NAMEPLATE, BLACK LETTERING, ENGRAVED "CONTACTOR JBOX"	POLTEC	500040
P 16A	1	RCP-1200 COMPRESSOR PLC CONTROL PANEL	—	—



PTB-1200 120VAC POWER TERMINAL BOX

4 SHOP AS BUILT
3 REVISED AS NOTED
2 DELETED FRE DETECTION
1 ISSUED FOR CONSTRUCTION

MU 22/JUL/03
MLL 04/JUN/03 JY MW
MLL 21/MAY/03 MLL MW
MLL 16/MAY/03 JY JM

J.MAK
16/MAY/03

M.LUCERO
13/MAY/03

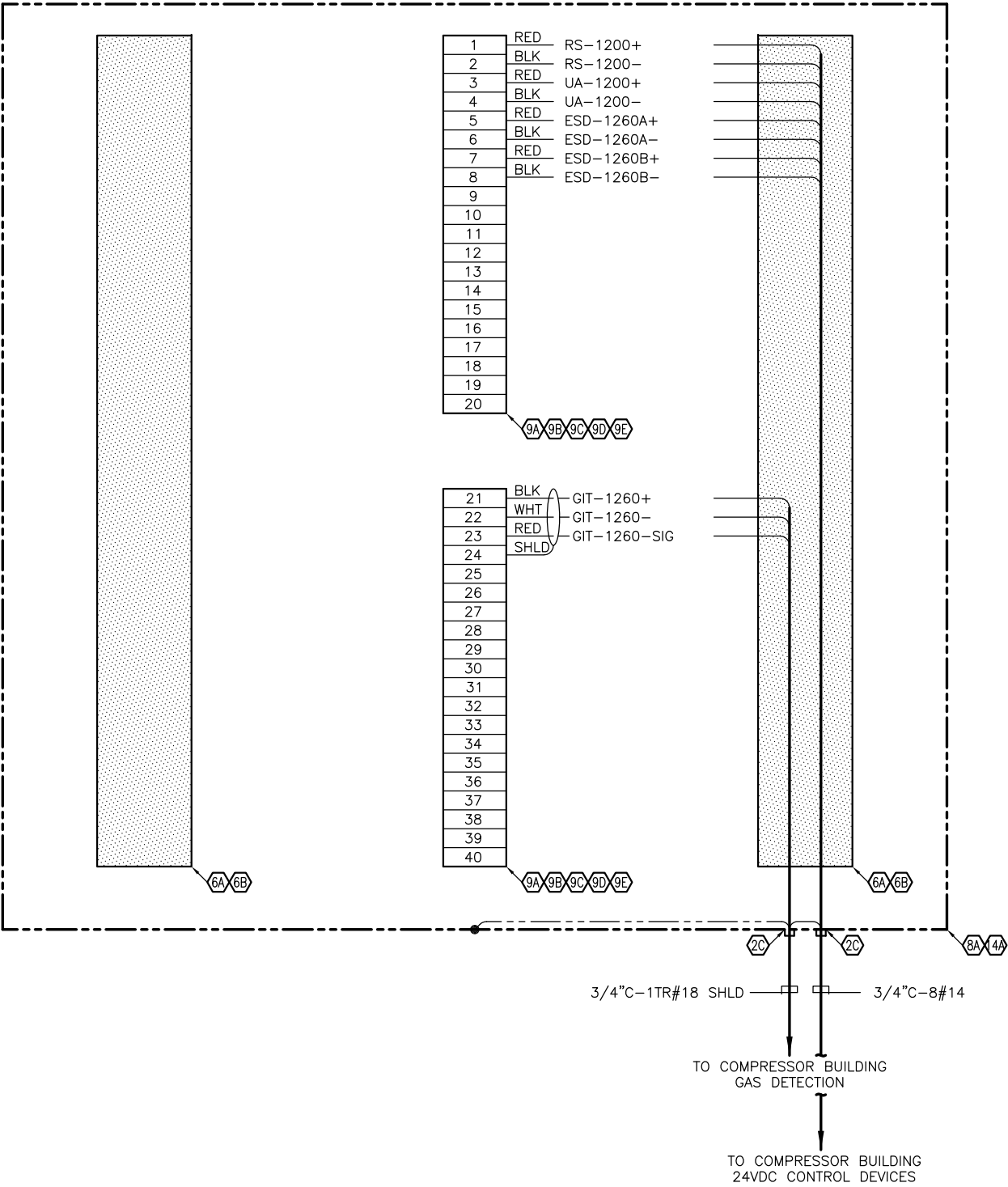
J.YEE
16/MAY/03

NONE

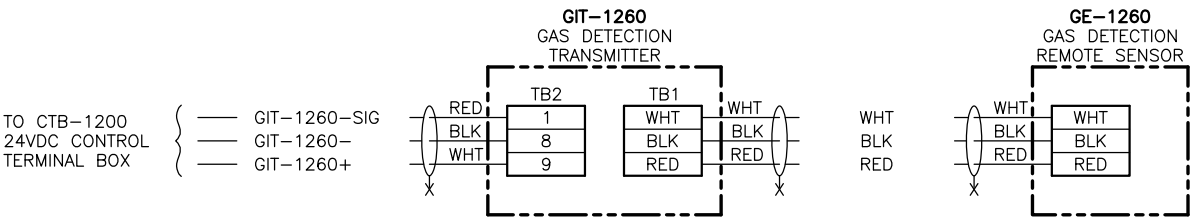
TOM BROWN INC.
PAVILLION SOUTH 1478HP COMPRESSOR PACKAGE
ELECTRICAL
COMPRESSOR BUILDING BOM & TERMINAL BOX WIRING

D-ELO-031104-156

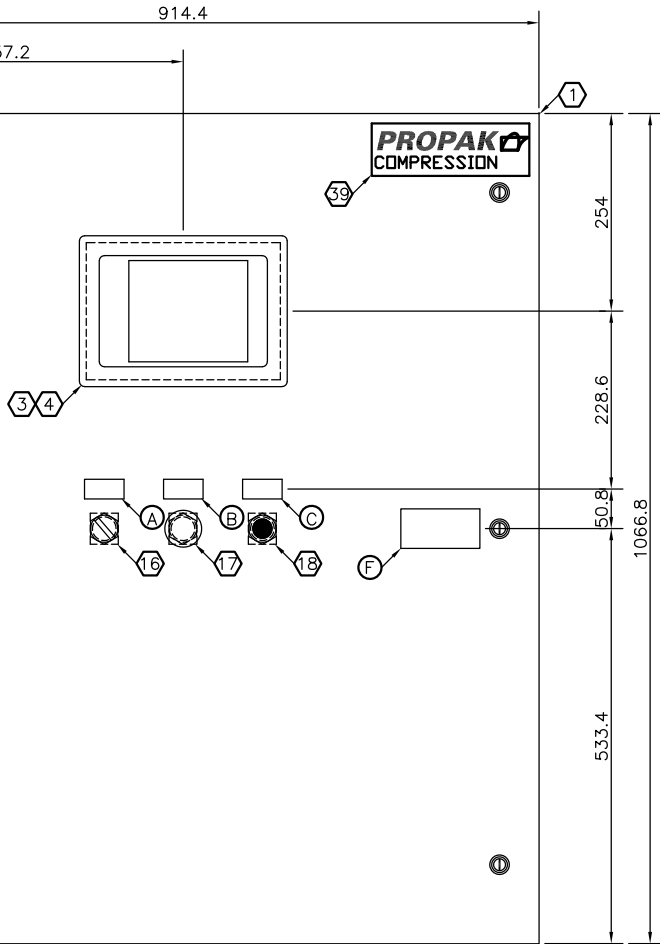
SHEET 3 4



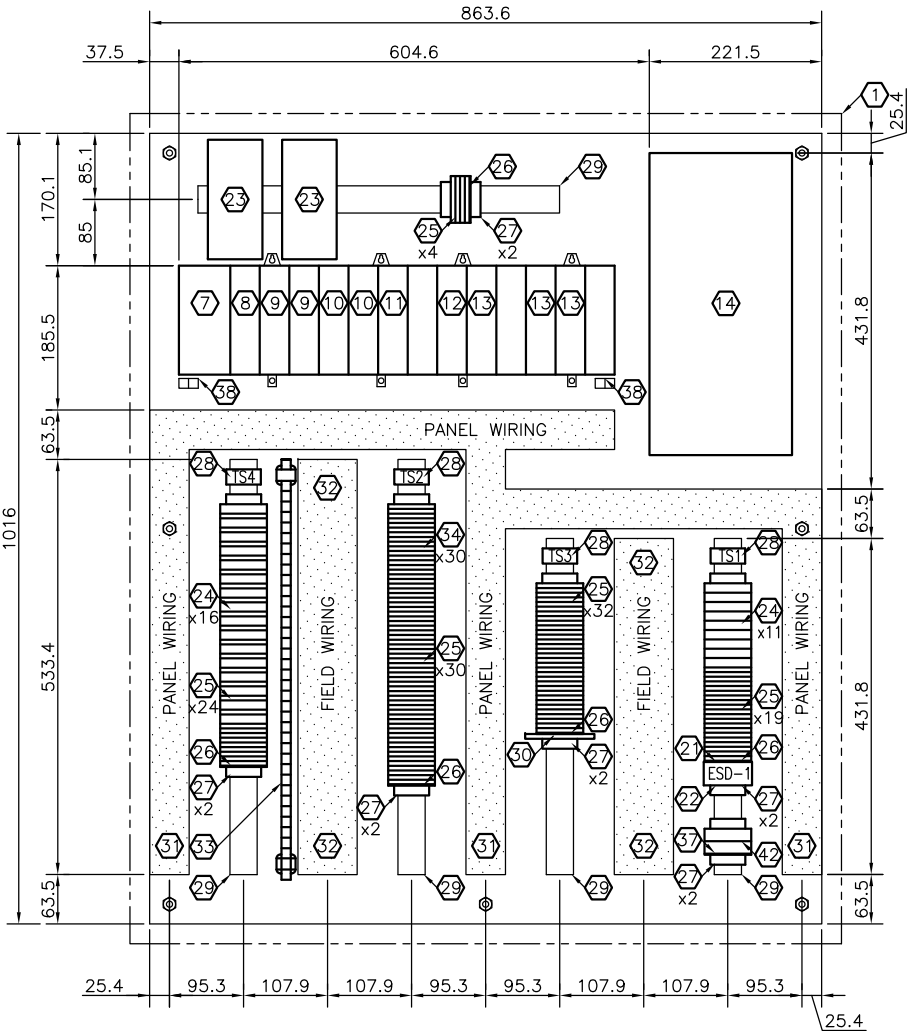
CTB-1200 24VDC CONTROL TERMINAL BOX



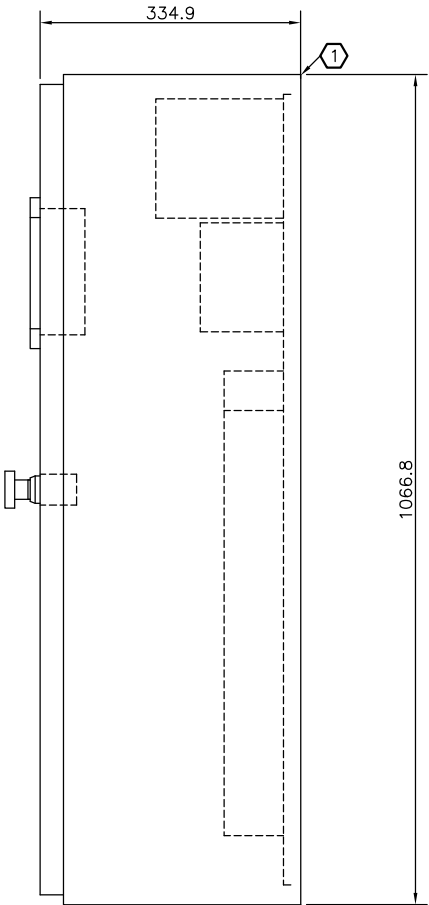
COMBUSTIBLE GAS DETECTION WIRING DIAGRAM



PANEL DOOR EQUIPMENT LAYOUT



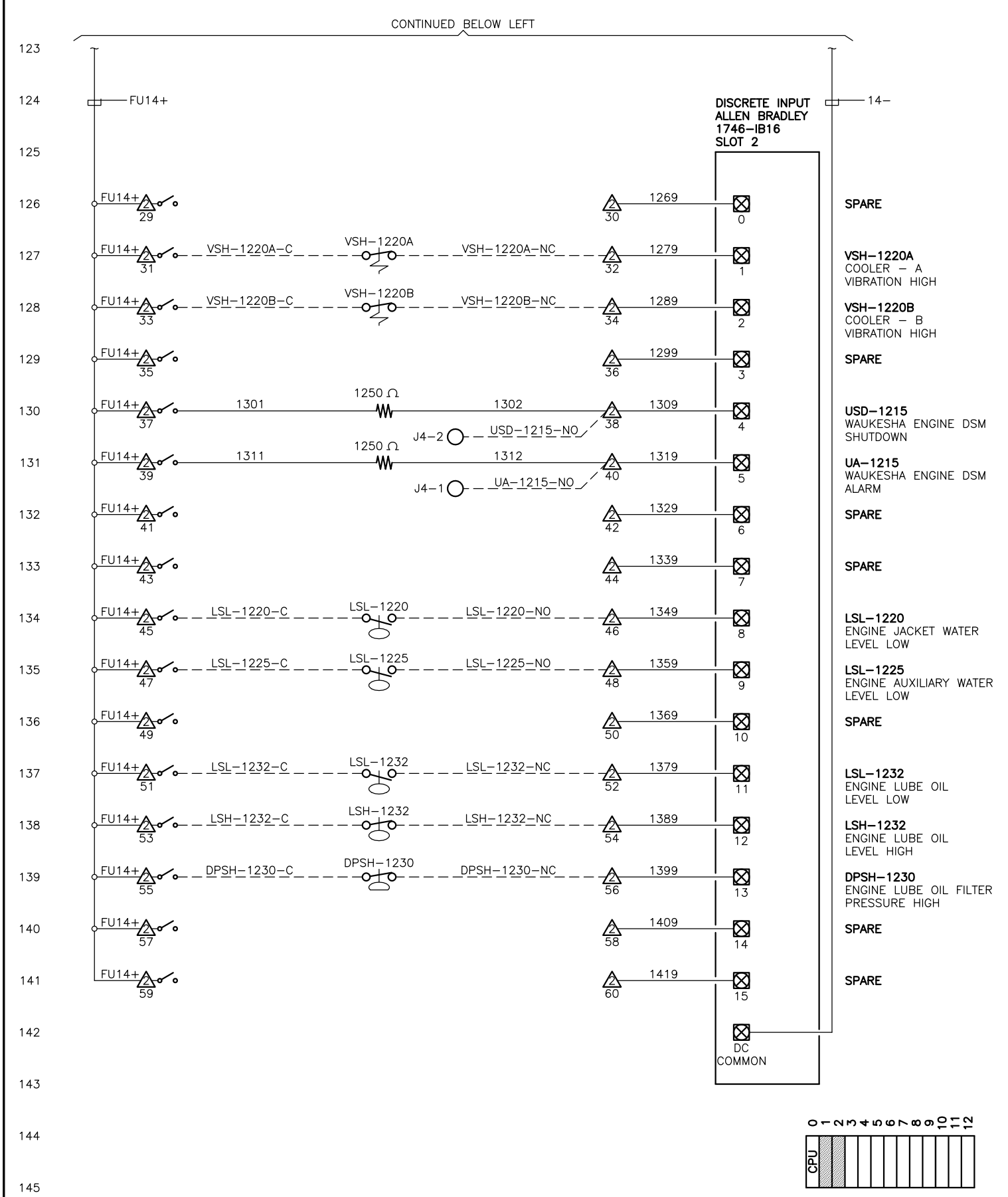
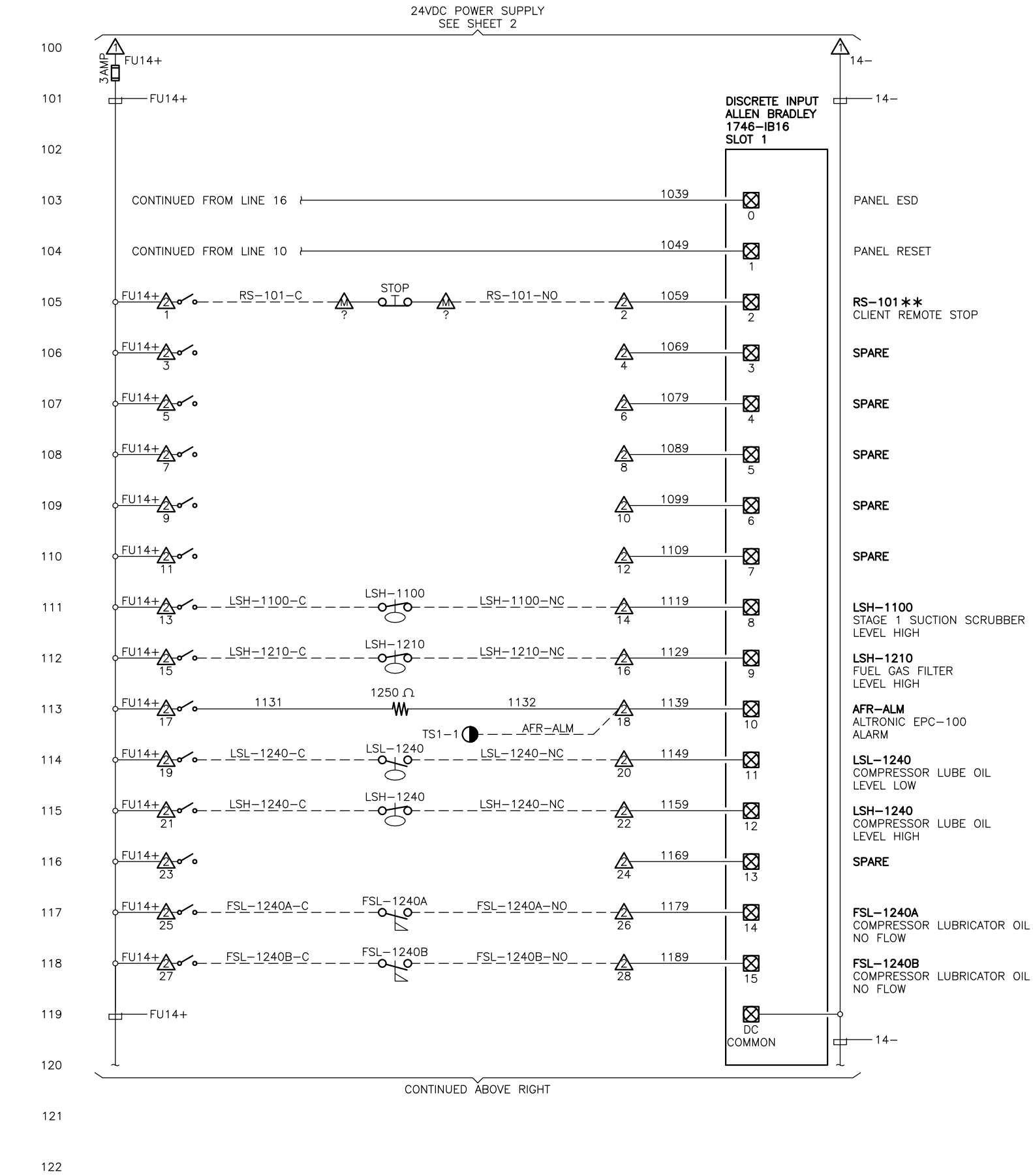
PANEL BACK-PAN EQUIPMENT LAYOUT

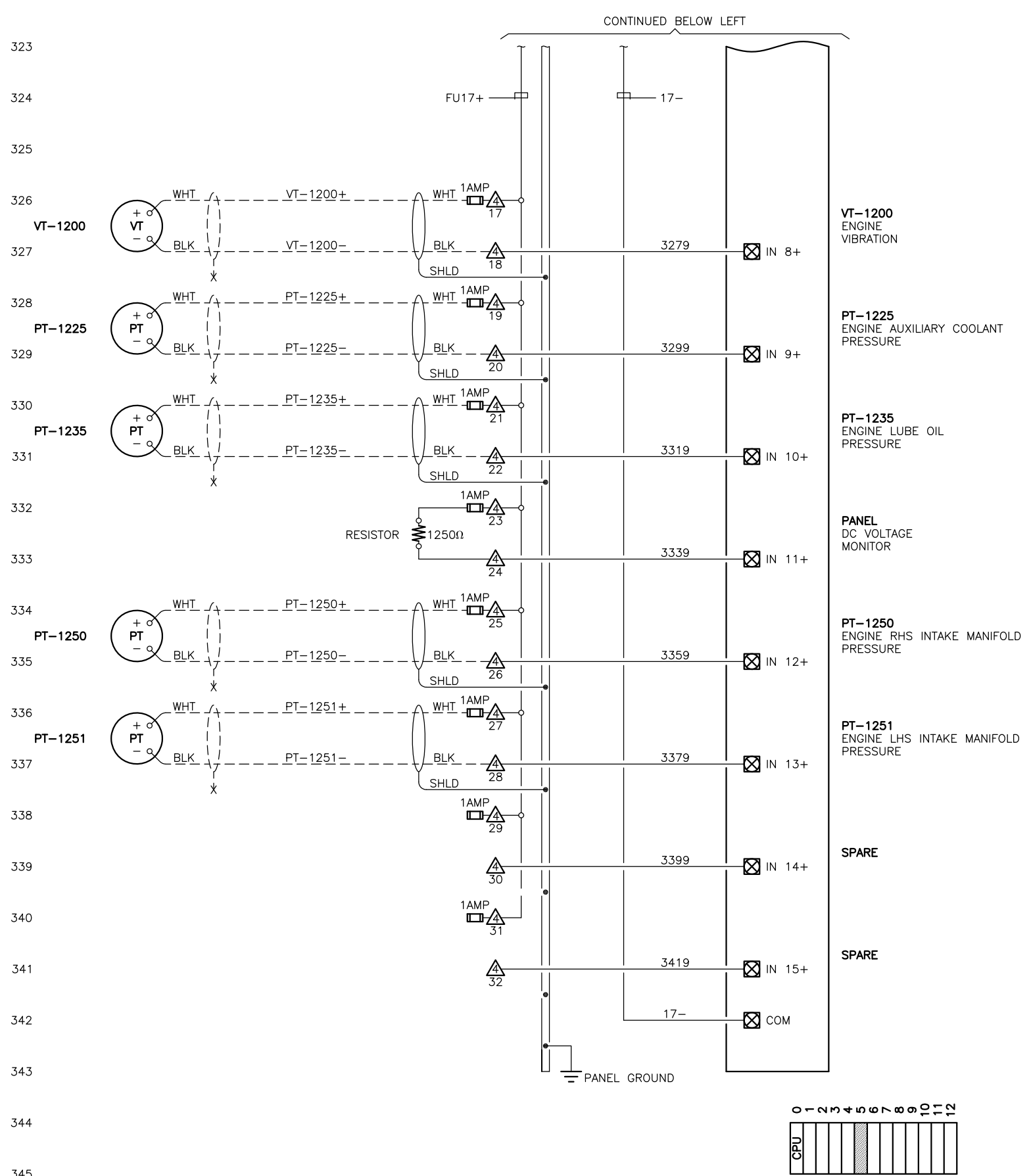
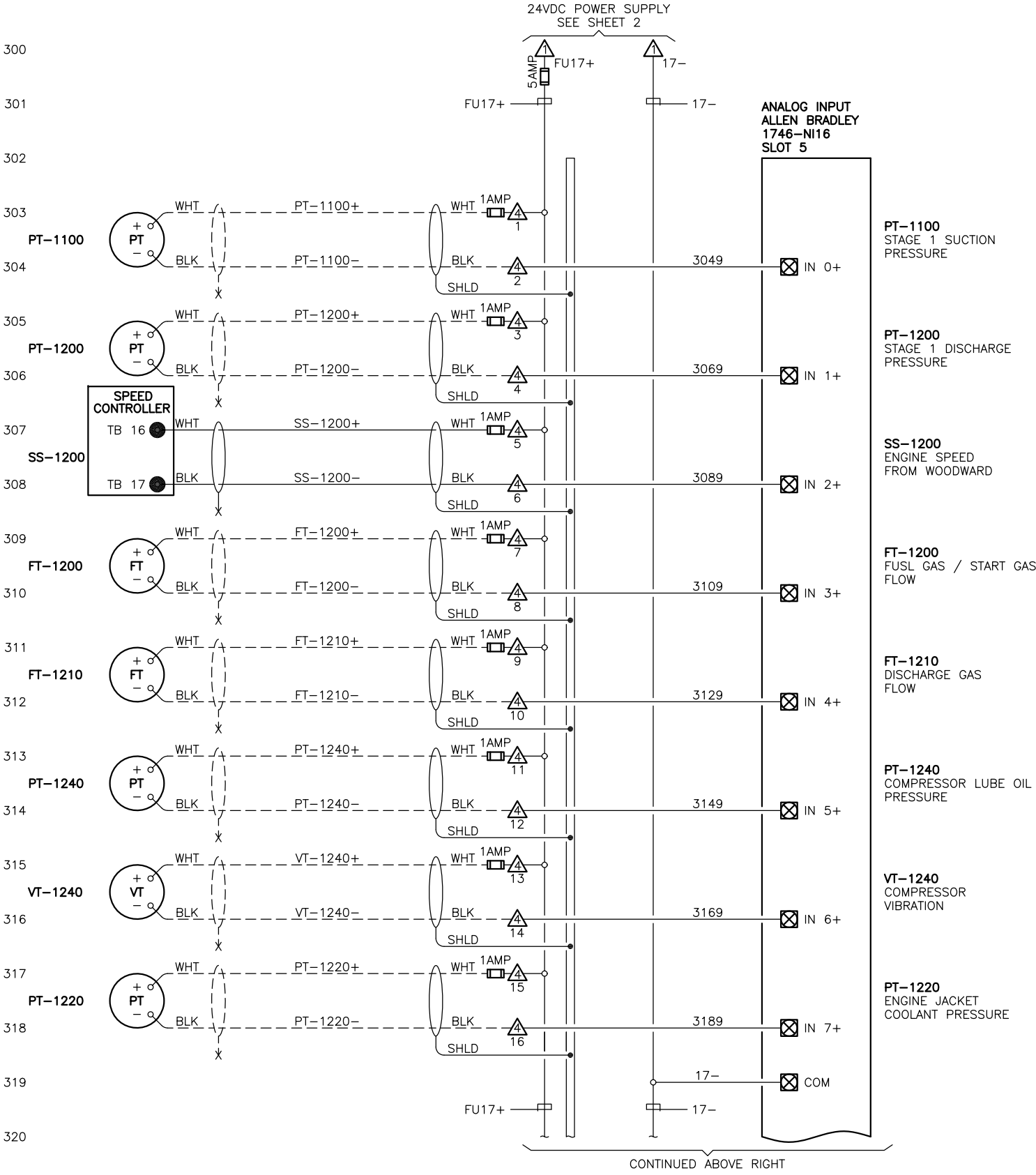


PANEL SECTION

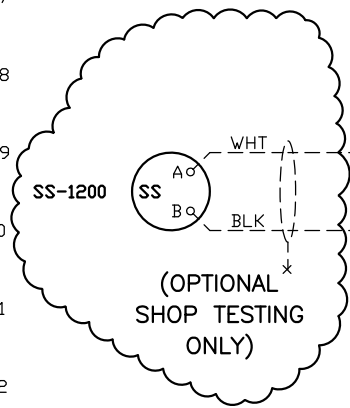
BILL OF MATERIALS					
ITEM	QTY	DESCRIPTION	CATALOG NUMBER	MANUFACTURER	VISION
P 1	1	STEEL ENCLOSURE, 1066.8mmH x 914.4mmW x 304.8mmD, NEMA-4 c/w BACK-PANEL & MOUNTING FEET	5412ES423612	EUROBEX	535457
2					
3	1	TOUCH SCREEN, 203mm DISPLAY, 24VDC, CL. I-DIV. 2	1775T-PMPS-1700	CUTLER HAMMER	510053
4	1	INTERFACE CABLE, TOUCH SCREEN TO PLC	HMI-CAB	ACC CABLES	N/N
5					
P 6	1	PLC RACK, 13 SLOT CHASSIS	1746-A13	ALLEN-BRADLEY	510000
P 7	1	PLC POWER SUPPLY, 24VDC, CL. I-DIV. 2	1746-P3	ALLEN-BRADLEY	510003
P 8	1	PLC PROCESSOR, SLC 5/03	1747-L531	ALLEN-BRADLEY	510034
P 9	2	PLC DISCRETE INPUT CARD, 16 POINTS	1746-IB16	ALLEN-BRADLEY	510006
P 10	2	PLC DISCRETE OUTPUT CARD, 8 POINTS	1746-0X8	ALLEN-BRADLEY	510038
P 11	1	PLC ANALOG INPUT CARD, 16 CHANNELS	1746-NI16	ALLEN-BRADLEY	510036
P 12	1	PLC ANALOG OUTPUT CARD, 4 CHANNELS	1746-NO4I	ALLEN-BRADLEY	510005
P 13	3	PLC THERMOCOUPLE CARD, TYPE K, 8 CHANNELS	1746-NT8	ALLEN-BRADLEY	510040
P 14	3	WOODWARD DIGITAL LOAD SHARING AND SPEED CONTROL	2301D	WOODWARD	N/N
15					
16	1	OFF-ON, 2-POSITION SELECTOR SWITCH, 1-NO CONTACT HERMETICALLY SEALED, CL. I-DIV. 2 c/w LEGEND PLATE	10250T722BK	CUTLER-HAMMER	509070
17	1	PUSHBUTTON, PUSH/PULL, MUSHROOM, ILLUMINATED RED, 1-NO/1-NC CONTACT, HERMETICALLY SEALED, CL. I-DIV. 2	10250T849ED	CUTLER-HAMMER	509063
18	1	PUSHBUTTON, EXTENDED HEAD, ILLUMINATED GREEN, 1-NO/1-NC CONTACT, HERMETICALLY SEALED, CL. I-DIV. 2	10250T818GD	CUTLER-HAMMER	509071
19					
20					
21	1	RELAY, 4 POLE, 5 AMP, HERMETICALLY SEALED CONTACTS, CL. I-DIV. 2, 24VDC	KHS-17D11-24VDC	POTTER-BRUMFIELD	540006
22	1	RELAY BASE, DIN RAIL MOUNT	27E894	POTTER-BRUMFIELD	540011
23	2	10 AMP POWER SUPPLY, 120VAC-24VDC, DIN RAIL MOUNT, CL. I - DIV. 2	81.000.6040.0	WIELAND	N/N

BILL OF MATERIALS					
ITEM	QTY	DESCRIPTION	CATALOG NUMBER	MANUFACTURER	VISION
24	27	TERMINAL BLOCKS, FUSED, 24VDC c/w LED, TYPE WSI-6/2	101420	WEIDMULLER	501035
25	93	TERMINAL BLOCKS, FEED-THRU, TYPE WDU 4	102010	WEIDMULLER	501070
26	5	W SERIES TERMINAL BLOCK END PLATES, TYPE WAP	105000	WEIDMULLER	501019
27	8	W SERIES TERMINAL BLOCK END BRACKETS, TYPE EW 35	38356	WEIDMULLER	501032
28	4	GROUP TAG CARRIERS, TYPE Scht 5	29246	WEIDMULLER	501016
29	3M	TERMINAL BLOCK MOUNTING RAILS, TYPE TS 35 x 7.5	51450	WEIDMULLER	501074
30	1	FLARE RELAY, 24DC-1W-250V6A-CUT	80.010.4120.0	WEILAND	540004
31	2	WIRING DUCT, 50mmW x 75mmD, LIGHT GREY W/ COVER, 2m LENGTHS	DNG75050G	WEILAND	N/N
32	1	WIRING DUCT, 75mmW x 75mmD, LIGHT GREY W/ COVER, 2m LENGTHS	DNG75075G	WEILAND	545310
33	0.5M	ISOLATED GROUND BUSBAR, TYPE ESch c/w INSULATION	28030	WEIDMULLER	501045
	40	ISOLATED GROUND BUSBAR PRESSURE CLAMP, TYPE DS	28010	WEIDMULLER	501046
	40	ISOLATED GROUND BUSBAR CLAMPING SCREW, TYPE BS	29670	WEIDMULLER	501047
	2	ISOLATED GROUND BUSBAR SUPPORT BLOCK, TYPE SH1PA	29986	WEIDMULLER	501048
34	30	WTR 2.5 SWITCH TERMINALS	101120	WEIDMULLER	501034
35	3	1-50 TERMINAL BLOCK MARKER, 6.0mm, TYPE DEK 6.0	468760001	WEIDMULLER	501039
36	1	51-100 TERMINAL BLOCK MARKER, 6.0mm, TYPE DEK 6.0	468760051	WEIDMULLER	501040
37	1	W SERIES TERMINAL BLOCK END PLATES, TYPE WAP	105010	WEIDMULLER	501077
38	2	GROUND POST, 10-32	KA2U	BURNDY	505037
39	1	NAMEPLATE 'PROPAK COMPRESSION'	-	SHIP	N/N
40	6	DIODES 1N4004	-	OPEN	504000
41	4	1250 Ω, 1/2W RESISTOR	-	OPEN	N/N
42	2	TERMINAL BLOCKS, FEED-THRU, TYPE WDU 35	102050	WEIDMULLER	501037
43	1	2A FAST ACTING CERAMIC FUSES, 1/4" x 1-1/4"	GAB2	GOULD SHAWMUT	N/N
44	1	15A FAST ACTING CERAMIC FUSES, 1/4" x 1-1/4"	GAB15	GOULD SHAWMUT	538054
45	2	8A FAST ACTING CERAMIC FUSES, 1/4" x 1-1/4"	GAB8	GOULD SHAWMUT	538012
46	2	5A FAST ACTING CERAMIC FUSES, 1/4" x 1-1/4"	GAB5	GOULD SHAWMUT	538010
47	3	3A FAST ACTING CERAMIC FUSES, 1/4" x 1-1/4"	GAB3	GOULD SHAWMUT	538008
48	17	1A FAST ACTING CERAMIC FUSES, 1/4" x 1-1/4"	GAB1	GOULD SHAWMUT	538006

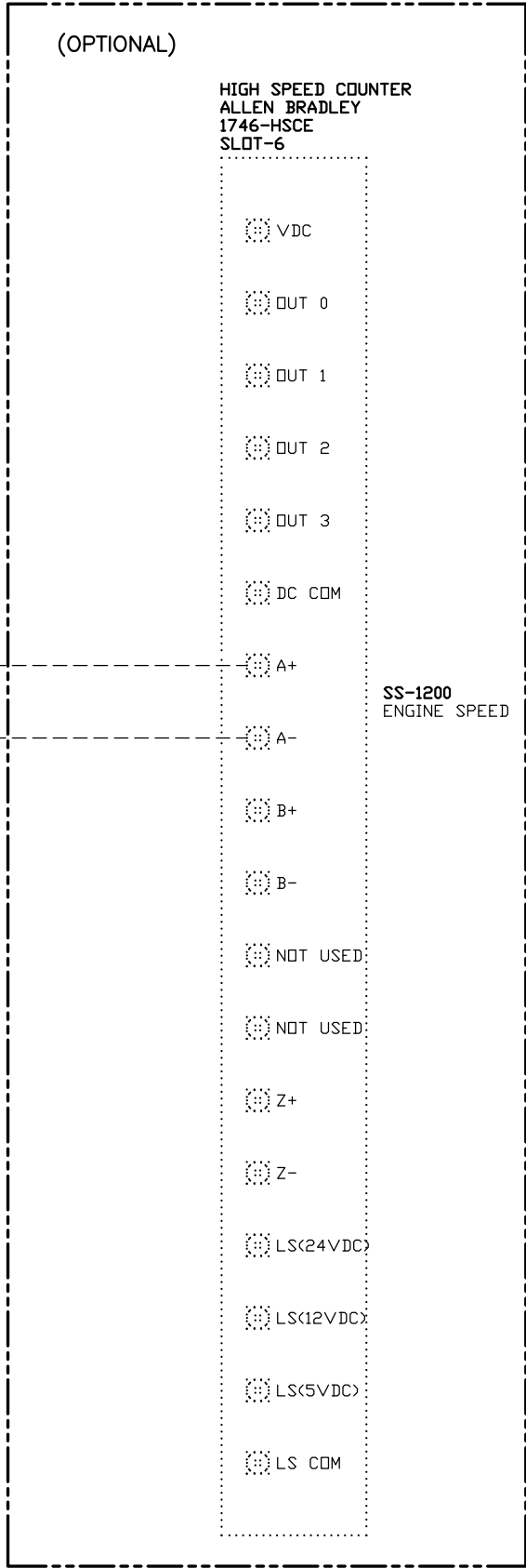




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PANEL GROUND



SS-1200
ENGINE SPEED

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ANALOG OUTPUT
ALLEN-BRADLEY
1746-NO4I
SLOT-7

24VDC POWER SUPPLY
SEE SHEET 2

3AMP
FU19+

19-
19-

+24VDC
DC COM

RED
YEL

0
1

4301
4311

1AMP
33
34

WHT
BLK
SHLD

WHT
BLK

PY-1100
SUCTION VALVE

2
3

4331
4341

1AMP
35
36

WHT
BLK
SHLD

WHT
BLK

PY-1200
BY PASS VALVE

4
5

4361
4371

1AMP
37
38

WHT
BLK
SHLD

WHT
BLK

SC-1200
REMOTE SPEED
SETPOINT

6
7

4391
4401

1AMP
39
40

PANEL GROUND

0	1	2	3	4	5	6	7	8	9	10	11	12
CPU												

***CLIENT I/P, FIELD WIRING & CONNECTION
BY CLIENT.

***LAVE UNIT

2 SHOP AS BUILT
1 ISSUED FOR CONSTRUCTION

CM 23/JUN/03
J.Y. 12/MAY/03 ML MW

M.WILLIAMS
12/MAY/03

J.Y.
02/MAY/03

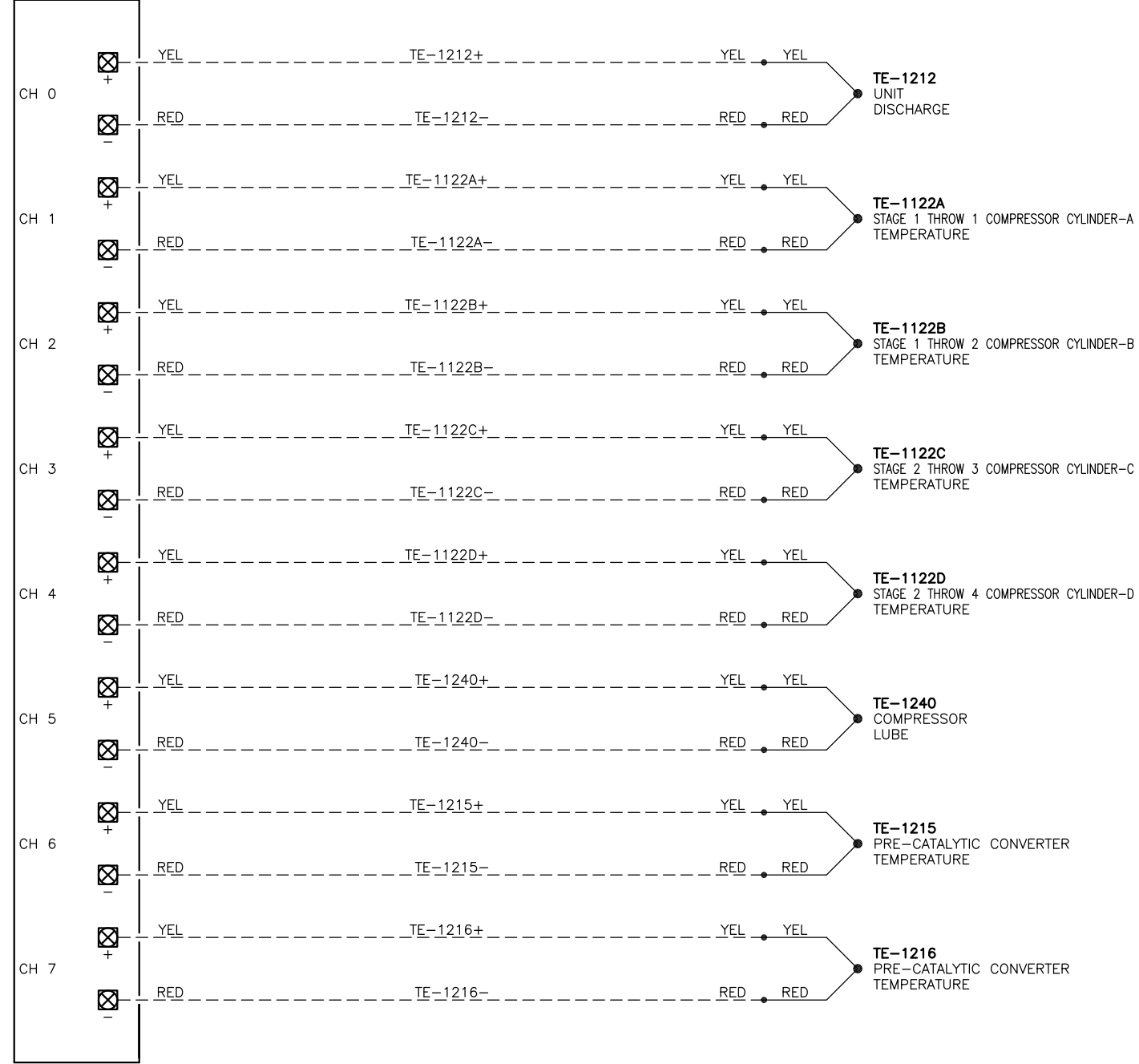
M.LUCERO
12/MAY/03

TOM BROWN INC.
1478 HP PAVILLION SOUTH COMPRESSOR
ELECTRICAL
COMPRESSOR PANEL I/O SCHEMATICS

D-PNL-031104-146

SHEET 6 2

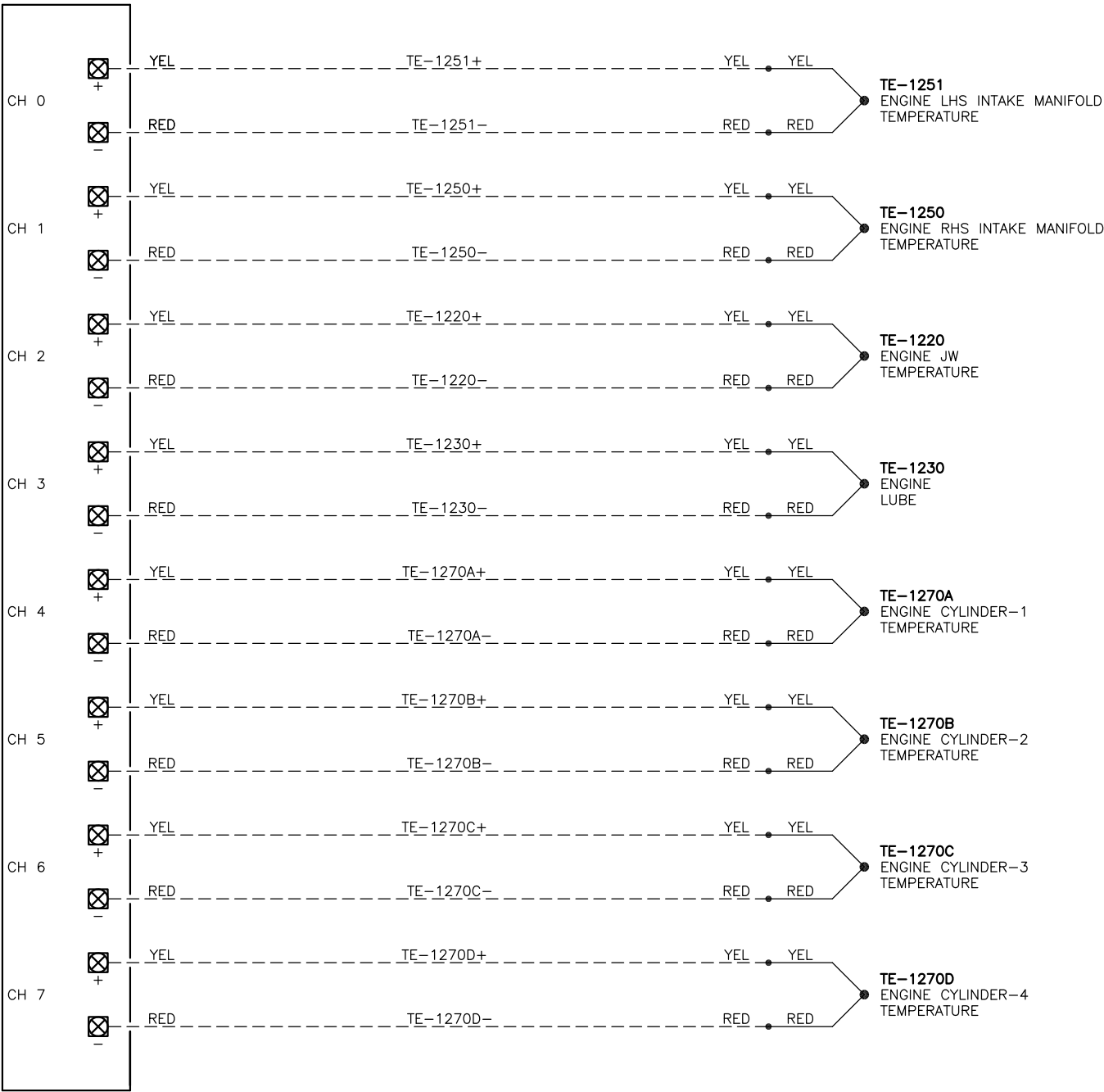
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CPU	0	1	2	3	4	5	6	7	8	9	10	11	12

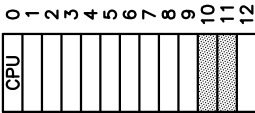
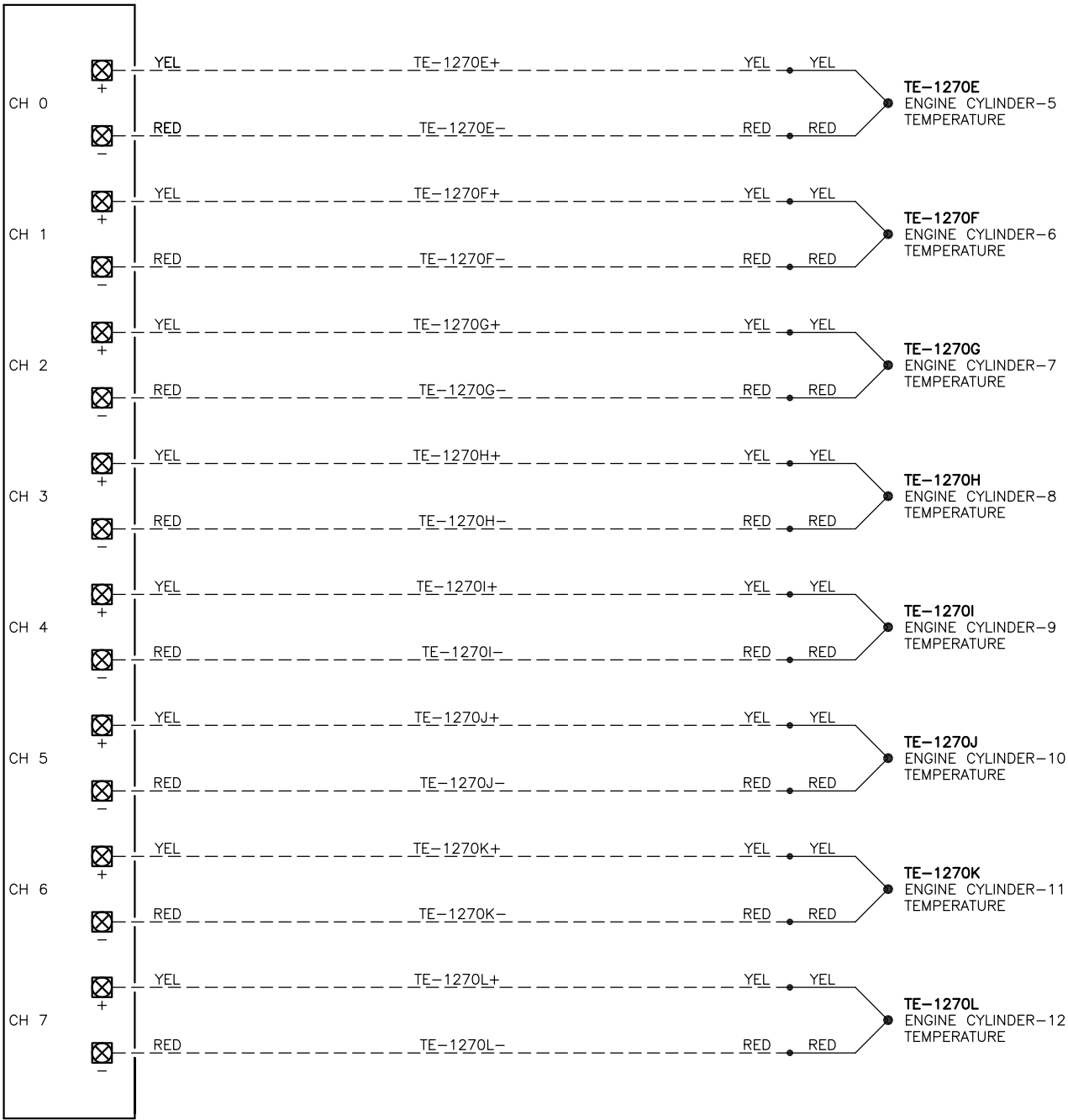
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TYPE-K THERMOCOUPLE
ALLEN BRADLEY
1746-NT8
SLOT 10



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TYPE-K THERMOCOUPLE
ALLEN BRADLEY
1746-NT8
SLOT 11



	LOCALLY MOUNTED		TO DRAIN SYSTEM (E.G. SHOWN: CLOSED HYDROCARBON DRAIN)		INDICATES FLANGED VALVE (TYPICAL FOR ALL TYPES)		PULSATION DAMPER		RUPTURE DISC FOR PRESSURE RELIEF
	TWO INSTRUMENTS IN THE SAME HOUSING		OPEN DRAIN		INDICATES BUTT-WELDED, SCREWED OR SOCKET-WELDED VALVE (TYPICAL FOR ALL TYPES)		PRESSURE SAFETY VALVE		RUPTURE DISC FOR VACUUM RELIEF
	PANEL MOUNTED IN CONTROL ROOM		HOT INSULATION (E.G. SHOWN: 1" THICK)		BA = BALL VALVE		PRESSURE REDUCING REGULATOR OR FORWARD PRESSURE REGULATOR		TURBINE METER
	BEHIND PANEL MOUNTED IN CONTROL ROOM		COLD INSULATION (E.G. SHOWN: 1" THICK)		CH = CHECK VALVE		BACK PRESSURE REGULATOR		POSITIVE DISPLACEMENT METER
	INSTRUMENT MOUNTED ON LOCAL PANEL		ELECTRICAL (ET), HOT GLYCOL (GT), STEAM (ST) HEAT TRACING		GA = GATE VALVE		DIFFERENTIAL PRESSURE REGULATOR		ANNUBAR OR PITOT TUBE
	BEHIND PANEL MOUNTED ON LOCAL PANEL		HOT INSULATION (E.G. SHOWN: 1" THICK HOT INSULATION WITH ELECTRIC HEAT TRACING)		PL = PLUG VALVE		PRESSURE REDUCING REGULATOR WITH EXTERNAL PRESSURE CONNECTION		CALIBRATED METER RUN WITH QUICK CHANGE FITTING
	LOCAL DISPLAY (DATALINER) OR ANNUNCIATOR		FLEXIBLE JOINT		NE = NEEDLE VALVE		PNEUMATIC LINE		FLOW ELEMENT (ORIFICE) c/w PLATE

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GENERAL SPECIFICATIONS			
CLASS	TYPICAL SERVICE	TEMP. RANGE (°F)	PRESS. RATING (ANSI)
A	SWEET HYDROCARBON, PROPANE REFRIGERANT, FUEL GAS AND FLARE GAS	−20°F TO 500°F	150 # RF
B	SWEET HYDROCARBON, PROPANE REFRIGERANT, FUEL GAS AND FLARE GAS	−20°F TO 500°F	300 # RF
C	SWEET HYDROCARBON, PROPANE REFRIGERANT, FUEL GAS AND FLARE GAS	−20°F TO 500°F	600 # RF
H	COMPRESSED AIR AND UTILITY WATER	32°F TO 100°F	150 # RF
J	DRAIN SYSTEM PIPING	40°F TO 200°F	150 # RF
K	GLYCOL	175 PSIG @ 350°F	150 # RF TO 1500 # RF
AS	SOUR HYDROCARBON, RICH AMINE AND SOUR WATER	−20°F TO 500°F	150 # RF
BS	SOUR HYDROCARBON, RICH AMINE AND SOUR WATER	−20°F TO 500°F	300 # RF
CS	SOUR HYDROCARBON, RICH AMINE AND SOUR WATER	−20°F TO 500°F	600 # RF
AL	SWEET HYDROCARBON, PROPANE REFRIGERANT	−50°F TO 150°F	150 # RF
BL	SWEET HYDROCARBON, PROPANE REFRIGERANT	−50°F TO 150°F	300 # RF
CL	SWEET HYDROCARBON, PROPANE REFRIGERANT	−50°F TO 150°F	600 # RF
AC	SWEET HYDROCARBON	−300°F TO 150°F	150 # RF
BC	SWEET HYDROCARBON	−300°F TO 150°F	300 # RF
CC	SWEET HYDROCARBON	−300°F TO 150°F	600 # RF

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Xref: DBORD-MB.dwg

GENERAL NOTES (ABBREVIATIONS)	
AC – AIR CLOSES	AG – ACID GAS
AO – AIR OPENS	AGF – ACID GAS FLARE
AVT – AUTOVENT TRAP	AMD – AMINE DRAIN
BD – BLOWDOWN	AV – ATMOSPHERIC VENTS
BF – BLIND FLANGE	BD – BLOWDOWN
CBD – CONTINUOUS BD	C – CAUSTIC
CD – CLOSED DRAIN	CCD – CLOSED CRYOGENIC DRAIN
CO – CHAIN OPERATED	CHD – CLOSED HYDROCARBON DRAIN
CSC – CAR SEAL CLOSED	CSD – CLOSED SOUR DRAIN
CSO – CAR SEAL OPEN	CV – CRYOGENIC VENT
DC – DRAIN CONNECTION	CWD – CLOSED WATER DRAIN
EBD – EMERGENCY BD	DR – DRAIN (ATMOSPHERIC)
ESD – EMERGENCY SHUTDOWN	EQL – EQUALIZING
ET – ELECTRICAL HEAT TRACE	FG – FUEL GAS
FO – FAIL OPEN	FL – FLARE
FC – FAIL CLOSED	FO – FUEL OIL
FP – FULL PORT	FW – FIRE WATER
GT – GLYCOL HEAT TRACE	GD – GLYCOL DRAIN
HH – HAND HOLE	GL – GLYCOL
HC – HOSE CONNECTION	HC – HIGH PRESSURE STEAM CONDENSATE
L – LOW	HCL – HYDROCARBON LIQUIDS
LC – LOCK CLOSED	HCV – HYDROCARBON VAPOUR
LO – LOCK OPEN	HM – HEAT MEDIUM
ML – MANUAL LOADING	HPF – HIGH PRESSURE FLARE
MW – MANWAY	HS – HIGH PRESSURE STEAM
NC – NORMALLY CLOSED	I/A – INSTRUMENT AIR
NE – NORMALLY ENERGIZED UNDER OPER. COND.	I/G – INSTRUMENT GAS
NO – NORMALLY OPEN	IS – INSTRUMENT SUPPLY
ND – NORMALLY DE-ENERGIZED UNDER OPER. COND.	JW – JACKET WATER
PC – PISTON CHECK VALVE	K – CHEMICALS
PO – PUMPOUT	LAM – LEAN AMINE
PP – PERSONNEL PROTECTION	LC – LOW PRESSURE STEAM CONDENSATE
QO – QUICK OPENING	LO – LUBE OIL
SC – SAMPLE CONNECTION	LOD – LUBE OIL DRAIN
SO – STEAM OUT	LPF – LOW PRESSURE FLARE
SP – SET POINT	LPG – LOW PRESSURE GAS
ST – STEAM HEAT TRACE	LS – LOW PRESSURE STEAM
UG – UNDERGROUND	MC – MEDIUM PRESSURE STEAM CONDENSATE
VB – VACUUM BREAKER	MS – MEDIUM PRESSURE STEAM
WC – WATER COLUMN	P – PROCESS GAS/LIQUID
	PDW – PRODUCED WATER
	POD – PACKING OIL DRAIN/VENT
	POW – POTABLE WATER
	PS – SOUR PROCESS GAS
	PSW – SOUR PROCESS WATER
	PW – PROCESS WATER
	RAM – RICH AMINE
	RLRV – REFRIG. LIQUID, REFRIG. VAPOUR
	ROD – REFRIG. OIL DRAIN
	SO – SEAL OIL
	SOD – SEAL OIL DRAIN
	UW – UTILITY WATER

TYPICAL VALVE IDENTIFICATION

VALVE TYPE

GA – GATE
GL – GLOBE
CH – CHECK
PL – PLUG
BA – BALL
NE – NEEDLE
BU – BUTTERFLY
ST – STRAINER

VALVE SIZE
O.D.
(INCH.)

ANSI RATING

1 – 150
3 – 300
6 – 600
8 – 800 API
9 – 900
15– 1500
25– 2500
60– 6000

SPECIAL DESIGNATORS

END CONNECTIONS
GATE, GLOBE, BALL OR BUTTERFLY VALVE
0 – RAISED FACE (HANDWHEEL OR LEVER)
1 – RAISED FACE (GEAR OPERATOR)
2 – RING JOINT (HANDWHEEL OR LEVER)
3 – RING JOINT (GEAR OPERATOR)
4 – BUTTWELD (HANDWHEEL OR LEVER)
5 – BUTTWELD (GEAR OPERATOR)
6 – SOCKET WELD
7 – SOCKET WELD x THREADED
8 – THREADED

END CONNECTIONS
CHECK VALVES
0 – RAISED FACE SWING
1 – RAISED FACE TILT DISK
2 – RAISED FACE PISTON
3 – RING JOINT SWING
4 – RING JOINT TILT DISK
5 – RING JOINT PISTON
6 – SOCKET WELD (HORIZ. FLOW)
7 – SOCKET WELD (VERT. FLOW)
8 – THREADED (HORIZ. FLOW)
9 – THREADED (VERT. FLOW)
S – BUTTWELD SWING
T – BUTTWELD TILT DISK
P – BUTTWELD PISTON

VALVE TRIM
0 – STANDARD
1 – SOUR
2 – CORROSIVE
3 – LOW TEMPERATURE
4 – LOW TEMP. SOUR
5 – LOW TEMP. CORROSIVE
6 – STEAM SERVICE
7 – CRYOGENIC ABOVE −150°F
8 – CRYOGENIC ABOVE −300°F
9 – STAINLESS STEEL BODY W/ CORROSIVE TRIM

−22°F TO −50°F

COMMODITY (ABBREVIATIONS)	
AG – ACID GAS	AGF – ACID GAS FLARE
AMD – AMINE DRAIN	AV – ATMOSPHERIC VENTS
BD – BLOWDOWN	BD – BLOWDOWN
C – CAUSTIC	CCD – CLOSED CRYOGENIC DRAIN
CHD – CLOSED HYDROCARBON DRAIN	CSD – CLOSED SOUR DRAIN
CV – CRYOGENIC VENT	CWD – CLOSED WATER DRAIN
DR – DRAIN (ATMOSPHERIC)	EQL – EQUALIZING
FG – FUEL GAS	FL – FLARE
FO – FUEL OIL	FW – FIRE WATER
GD – GLYCOL DRAIN	GL – GLYCOL
HC – HIGH PRESSURE STEAM CONDENSATE	HCL – HYDROCARBON LIQUIDS
HCV – HYDROCARBON VAPOUR	HM – HEAT MEDIUM
HPF – HIGH PRESSURE FLARE	HS – HIGH PRESSURE STEAM
I/A – INSTRUMENT AIR	I/G – INSTRUMENT GAS
IS – INSTRUMENT SUPPLY	JW – JACKET WATER
K – CHEMICALS	LAM – LEAN AMINE
LC – LOW PRESSURE STEAM CONDENSATE	LO – LUBE OIL
LOD – LUBE OIL DRAIN	LPF – LOW PRESSURE FLARE
LPG – LOW PRESSURE GAS	LS – LOW PRESSURE STEAM
MC – MEDIUM PRESSURE STEAM CONDENSATE	MS – MEDIUM PRESSURE STEAM
P – PROCESS GAS/LIQUID	PDW – PRODUCED WATER
POD – PACKING OIL DRAIN/VENT	POW – POTABLE WATER
PS – SOUR PROCESS GAS	PSW – SOUR PROCESS WATER
PW – PROCESS WATER	RAM – RICH AMINE
RLRV – REFRIG. LIQUID, REFRIG. VAPOUR	ROD – REFRIG. OIL DRAIN
SO – SEAL OIL	SOD – SEAL OIL DRAIN
UW – UTILITY WATER	

TYPICAL PIPE FLAGS

PIPE SIZE

1"

SKID EDGE

ASSOCIATED MECHANICAL FLOWSHEET SERIES #

300
04 E-300

EQUIPMENT NUMBER

ASSOCIATED MECHANICAL FLOWSHEET SHT. # FROM ANOTHER SERIES

FLANGE SIZE AND RATING

PIPE SIZE

2" 2"-150

SKID EDGE

EQUIPMENT NUMBER

ASSOCIATED MECHANICAL FLOWSHEET SHT. # WITHIN SAME SERIES

TYPICAL PIPE IDENTIFICATION

COMMODITY

PIPE AREA

PIPE NUMBER

P-0860-AS-1-1/2"-1-1/2"H

INSULATION

PIPE SIZE

MODIFIER (OPTION)
S – SOUR
L – LOW TEMP.
C – CRYOGENIC

PIPING CLASS
A, B, C, H, J, K,
AS, BS, CS,
AL, BL, CL,
AC, BC, CC.

TYPICAL EQUIPMENT IDENTIFICATION

TAG No:

DESCRIPTION:

MAKE AND MODEL:

DIMENSIONS:

DESIGN PRESSURE @ DESIGN TEMP., CORROS. ALLOWANCE:

GAS FLOW RATES:

LIQUID FLOW RATES:

DUTIES:

MOTOR POWER:

STRESS RELIEVING AND X-RAY:

I-820
DEETHANIZER
...
...inches O.D. x ...inches S/S
... psig @ ... °F, ...inches C.A.
... MMscfd
... USgpm
... btu/h
... hp @ V/φ/Hz
S.R.: YES/NO, X-RAY: FULL/100%/SPOT

D. REIMER
APR. 14/03

L. VADNAI
MAY 14/03

TOM BROWN INC.
1478 HP PAVILLION SOUTH COMPRESSOR
LEGEND
MECHANICAL FLOWSHEET

D-MFS-031104-100

N. BOR 04/08/25
D. REI 03/05/14
D. REI 03/04/14

M
LV
LV

SHT. 2 OF 2

ENGINE CONNECTION INDEX

1. NATURAL GAS INLET 2.00–11.5 N.P.T.

NOTE: FLEXIBLE CONNECTION REQUIRED AT THE FUEL INLET
LOCATION(S) TO ISOLATE ENGINE VIBRATION FROM FUEL PIPING.

LOCATE AS CLOSE TO ENGINE AS POSSIBLE.
2. STARTING MOTOR PAD .625–11 UNC–2B TAP THRU 3 HOLES FOR

STARTING MOTOR WITH S.A.E. NUMBER 3 MOUNTING FLANGE.
4. JACKET WATER OUTLET FLANGE. (SEE VIEW OF FLANGE)
5. FRONT LIFTING EYES 3.00 [76] DIA. HOLE.
6. REAR LIFTING EYES 3.00 [76] DIA. HOLE.
8. CRANKSHAFT PULLEY – (2) 9.88 [251] NOMINAL DIAMETER

X .500 [13] WIDE S.A.E. AUTOMOTIVE GROOVES.
9. .88 [22] DIAMETER – 12 ENGINE MOUNTING HOLES.
10. LUBE OIL DRAIN 2.00–11.5 N.P.T.
11. .75–10 UNC–2B TAP 1.25 [32] DEEP, 12 HOLES EQUALLY SPACED.
12. .75–10 UNC–2B TAP 1.25 [32] DEEP, 12 HOLES EQUALLY SPACED.
13. .625–11 UNC–2B TAP 1.00 [25] DEEP, 12 HOLES EQUALLY SPACED.
14. .250 [6] NOMINAL DIAMETER TUBE, AIR/GAS VENT CONNECTION.

(SEE VIEW "A") (SEE NOTE 1)
15. .250 [6] NOMINAL DIAMETER TUBE, AIR/GAS SUPPLY CONNECTION.

(SEE VIEW "A")
16. .375–18 N.P.T. AIR/GAS PRELUBE SUPPLY CONNECTION.
17. .250 [6] NOMINAL DIAMETER TUBE, AIR/GAS START CONNECTION.

(SEE VIEW "A")
18. LUBE OIL STRAINER INLET FROM LUBE OIL FILTER,

2.00 RAISED FACE 150 LB. A.N.S.I. WELD NECK FLANGE.
19. JACKET WATER INLET FLANGE, 2 PLACES. (SEE VIEW OF FLANGE)
22. LUBE OIL FILTER INLET FROM ENGINE OIL COOLER ASSEMBLY,

2.00 RAISED FACE 150 LB. A.N.S.I. FLANGE.
23. LUBE OIL FILTER OUTLET TO ENGINE LUBE OIL STAINER,

2.00 RAISED FACE 150 LB. A.N.S.I. FLANGE.
24. .56 [14] DIAMETER – 4 PLACES EQUALLY SPACED IN MOUNTING

FEET FOR LUBE OIL FILTER MOUNTING.
25. EXHAUST OUTLET FLANGE – FITS 8.00 FLAT FACE 125 LB. A.N.S.I.

CAST IRON PIPE FLANGE. NOTE: EXHAUST SYSTEM MUST SUPPORT
ITS OWN WEIGHT BEYOND THIS POINT.
27. AUXILIARY WATER INLET FROM COOLING SYSTEM,

2.50 125 LB. A.N.S.I. FLANGE.
28. 375–18 N.P.T. AIR/GAS PRE–LUBE MOTOR EXHAUST.

(SEE NOTE 1)

NOTE 1: ALL GAS VENTED AND/OR DISCHARGED FROM ENGINE EQUIPMENT
SHOULD BE PIPED TO A SAFE AREA TO MEET APPLICABLE CODES.

NOTE 2. ROTATIONS ARE VIEWED FROM FLYWHEEL END.

33. LUBE OIL COOLER ASSEMBLY OUTLET TO LUBE OIL FILTER 2.00 RAISED FACE

150 LB. A.N.S.I. FLANGE.
34. PRESSURE REGULATING VALVE OUTLET ON LUBE OIL COOLER ASSEMBLY TO

ENGINE OIL PAN. 1.50 RAISED FACE 150 LB, A.N.S.I. FLANGE.
35. AUXILIARY WATER INLET AT LUBE OIL COOLER ASSEMBLY,

2.50 FLAT FACE 125 LB. A.N.S.I. FLANGE.
36. AUXILIARY WATER OUTLET AT LUBE OIL COOLER ASSEMBLY TO THERMOSTATIC
VALVE AND COOLING SYSTEM, 2.50 FLAT FACE 125 LB. A.N.S.I. FLANGE.
37. .69 X .625 [18 X 32] SLOT 4 PLACES FOR LUBE OIL COOLER

ASSEMBLY MOUNTING.
38. AUXILIARY WATER BYPASS CONNECTION FROM LUBE OIL COOLER.

41. AUXILIARY WATER OUTLET TO LUBE OIL COOLER ASSEMBLY.
39. .750–14.50 N.P.T. AUXILIARY WATER CONNECTION FROM EXPANSION TANK.

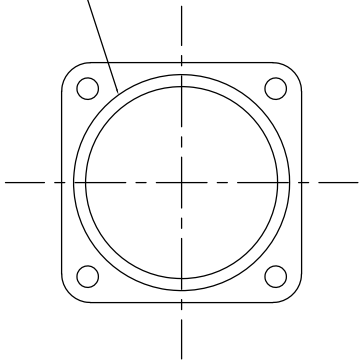
42. LUBE OIL INLET FROM PRESSURE REGULATING VALVE ON LUBE OIL COOLER
ASSEMBLY, 1.50 LAP JOINT 150 LB. A.N.S.I. FLANGE WITH STUB END.
43. LUBE OIL OUTLET TO LUBE OIL COOLER ASSEMBLY, 2.00 LAP JOINT

42. LUBE OIL INLET FROM PRESSURE REGULATING VALVE ON LUBE OIL COOLER
ASSEMBLY, 1.50 LAP JOINT 150 LB. A.N.S.I. FLANGE WITH STUB END.
44. LUBE OIL COOLER ASSEMBLY INLET FROM ENGINE LUBE OIL PUMP.

54. ENGINE TEMPERATURE CONNECTION POINTS, THERMOCouples
54. ENGINE PRESSURE BLOCK, OIL AND INTAKE MANIFOLD PRESSURE
TYPE K, AND CUSTOM CONTROLS JUNCTION BOX.
57. FRONT FACE OF CRANKCASE.
58. MICROSPIN INLET CONNECTION POINT, 1/2” NPT.

60. DSM FILTER SIGNAL OUTPUT INCLUDES 15 FOOT LONG CABLE.

4.06 [102] DIA. FOR 4.06 [102] O.D.
TUBE, 4.53 [115] DIA.–.25 [6] DEEP
FOR 4.00 PIPE OR 4.50 [114] O.D.
TUBE, .72 [18] FLANGE THICKNESS

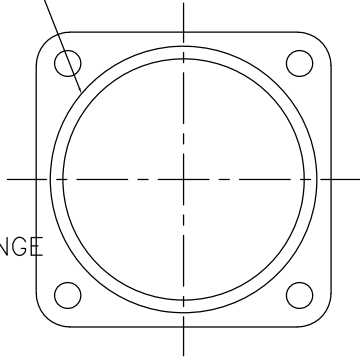


VIEW OF JACKET WATER INLET FLANGE
SCALE : 1:2

EQUIPMENT INDEX

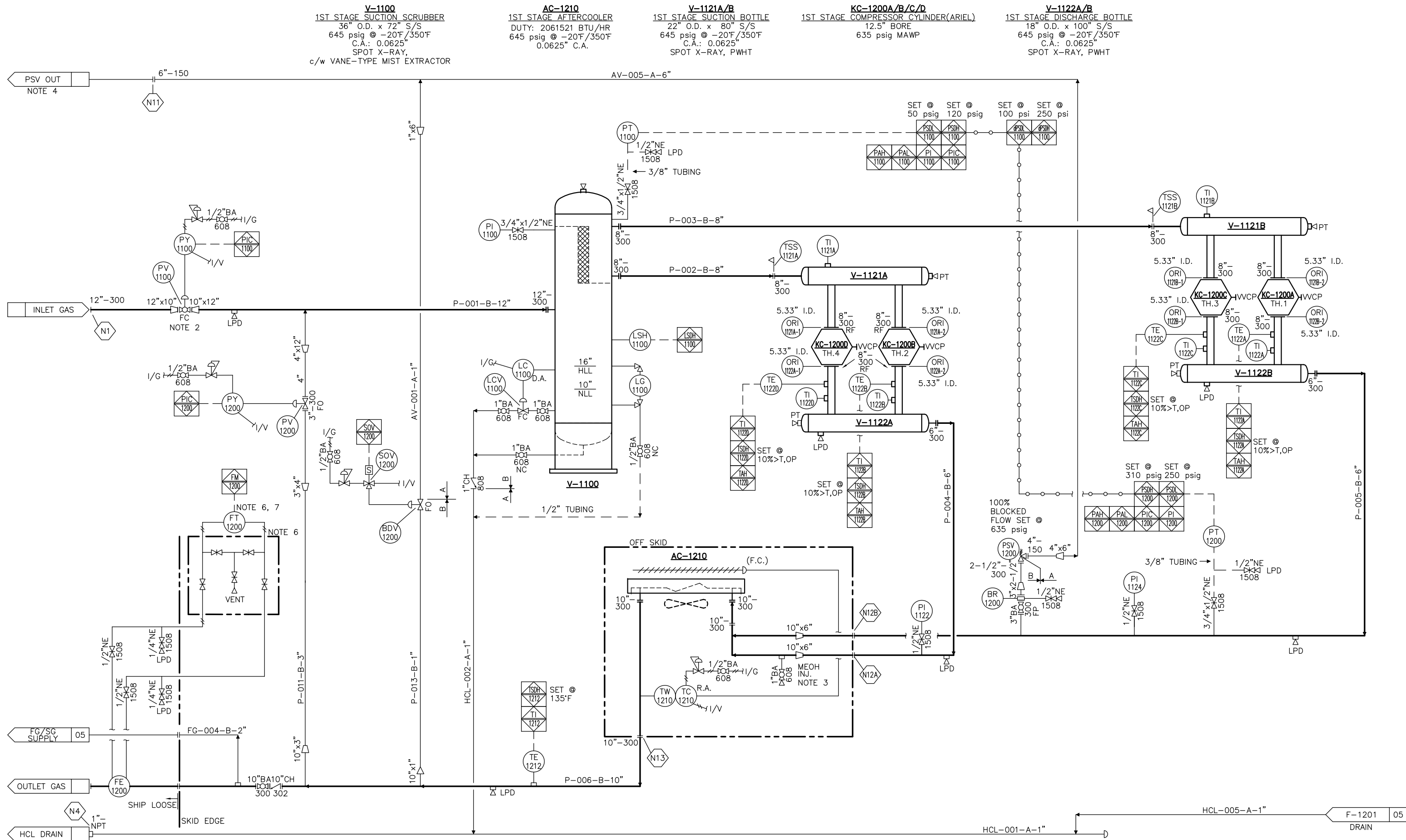
- A. S.A.E NUMBER 00 FLYWHEEL HOUSING
- B. TIMING HOLE PAD
- C. ENGINE WATER DRAIN
- D. GOVERNOR, HYDRAULIC
- E. SAFETY GUARD
- F. LUBE OIL DIPSTICK (BOTH SIDES)
- G. LUBE OIL FILLER
- H. LUBE OIL STRAINER
- J. AIR/GAS MOTORIZED PRE–LUBE PUMP
- K. LUBE OIL FILTER ASSEMBLY (SHIPPED LOOSE)
- L. CRANKCASE BREATHER (2)
- M. AIR CLEANERS (2)
- P. MANUAL BARRING DEVICE
- Q. ENGINE LEVELING BOLTS (4) 1.00–8 UNC–2B THREAD
- R. 24.00 [610] LONG FLEXIBLE METAL HOSE (SHIPPED LOOSE)
- S. 24.00 [610] LONG FLEXIBLE METAL HOSE (SHIPPED LOOSE)
- T. GOVERNOR SPEED CONTROL HAND LEVER
- U. THROTTLE LEVER
- V. LUBE OIL COOLER ASSEMBLY (SHIPPED LOOSE)
- W. FLEXIBLE EXHAUST CONNECTION (SHIPPED LOOSE)
- X. 24.00 [610] LONG FLEXIBLE METAL HOSE (SHIPPED LOOSE)
- UU. PNUEMATIC CONTROL PANEL CONSISTING OF START, STOP,
PRELUBE, AND SAFETY RESET.
- XX. CEC IGNITION MODULE
- BA. DETONATION SENSING MODULE (DSM)
- CA. DSM FILTER
- DA.
- EA. MICROSPIN DRAIN DOOR (SHIPPED LOOSE).
- FA. MICROSPIN OIL FILTER (SHIPPED LOOSE).
(Ref. Latest Revision of Microspin Installation Guidelines)
- GA. SHUTOFF VALVE (SHIPPED LOOSE).

- 5.06 [129] DIA. FOR 5.00 [127] O.D.
TUBE, 5.59 [142] DIA.–.25 [6] DEEP
FOR 5.00 PIPE OR 5.50 [140] O.D.
TUBE, .72 [18] FLANGE THICKNESS



VIEW OF JACKET WATER OUTLET FLANGE
SCALE : 1:2

VIEW OF JACKET WATER INLET FLANGE



- 3/8" VENT TUBE TO VENT HEADER.
- SUCTION PRESSURE CONTROL VALVE IS 10"-300# RF V-BALL.
- METHANOL INJECTION CONNECTION TO COME WITH SCH 160 CLOSE NIPPLE, LOCKABLE BALL VALVE AND PLUG.
- VENT TO ATMOSPHERE 12 INCHES ABOVE PEAK HEIGHT c/w RAIN CAP. (SP-06)
- FE-1200 IS ORIFICE METER RUN (SHIP LOOSE). FE/FT-1200 WIRING TO TIE INTO UNIT PLC.
- 5 VALVE MANIFOLD INTEGRAL WITH FT-1200
- FT-1200 MOUNTED INSIDE BUILDING

ISSUED AS BUILT
FIELD ADDITIONS
GENERAL REVISIONS
GENERAL REVISIONS
ISSUED FOR CONSTRUCTION
ISSUED FOR APPROVAL

N. BOR 04/08/25 MI MI
P. FEN 04/07/14 MI MI
N. SYE 03/06/02 LV LV
P. FEN 03/05/20 LV LV
D. REI 03/05/14 LV LV
D. REI 03/04/14 LV LV

D. REIMER
APR. 14/03
L. VADNAI
MAY 14/03

P-1220
GLYCOL TRANSFER PUMP
GAS DRIVEN DIAPHRAGM PUMP
ARO, MODEL 666100
32 gpm MAX. FLOW

AC-1220
ENGINE JW COOLER
14 psig MAWP
DUTY: 4118200 BTU/hr

AC-1225
ENGINE AW COOLER
14 psig MAWP
DUTY: 832000 BTU/hr

T-1220
ENGINE JW SURGE TANK
35 USG
7 psig MAWP

T-1225
ENGINE AW SURGE TANK
18 USG
7 psig MAWP

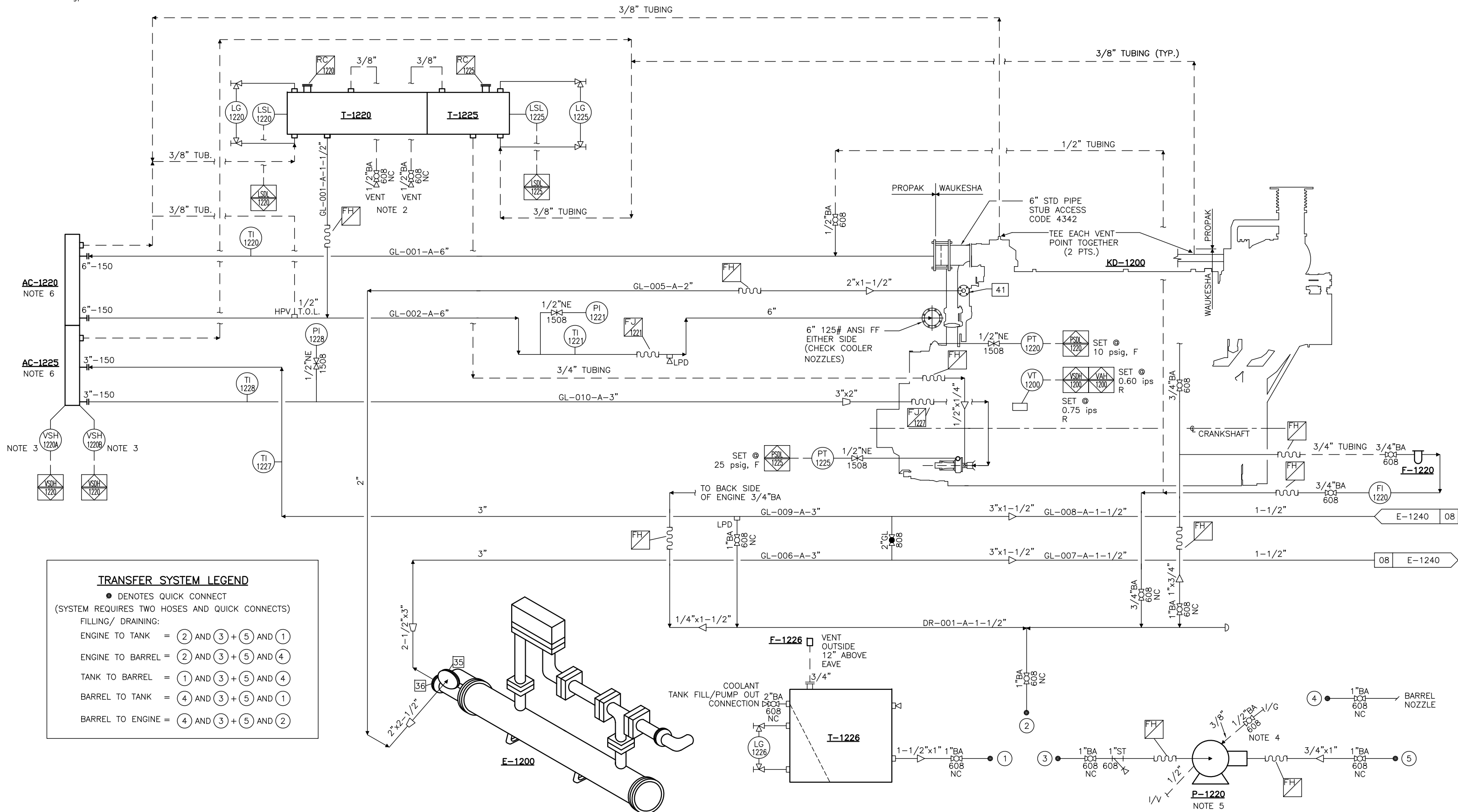
E-1200
ENGINE OIL COOLER
c/w ENGINE

F-1226
FILTER/BREATHER
P/N: S000080
3/4" THREAD ON

T-1226
GLYCOL DRAIN TANK
500 USG
INTEGRAL WITH SKID ATM DESIGN

KD-1200
WAUKESHA L7042GSI
1478 hp @ 1200 RPM

F-1220/ FI-1220
JW SLIP STREAM FILTRATION STATION
FPS MODEL: SSKI-GLY9UM-FIB



1. ENGINE CONNECTION INDEX SEE D-MFS-031104-100 SHT. 3.
2. LOCATE BA SIDE BY SIDE @ 5' ABOVE GRATING.
3. LOCATE VSH ON STRUCTURE NEAR EACH FAN.
4. LOCATE BA ON WALL CLOSE TO P-1220, NO NE OR PRV ON I/G.
5. LOCATE PUMP AND QUICK CONNECTS AT OR ABOVE GRATING HEIGHT.
6. HAILGUARDS ONLY. MANUAL LOUVER IS PROVIDED ON SIDE OF EACH COOLER. PLENUM FOR BYPASSING COLD AIR (WINTERIZATION OF COOLER)

- 3 ISSUED AS BUILT
2 GENERAL REVISIONS
1 ISSUED FOR CONSTRUCTION
A ISSUED FOR APPROVAL

- | | | |
|-----------------|----|----|
| N. BOR 04/08/25 | MI | MI |
| P. FEN 03/05/20 | LV | LV |
| D. REI 03/05/14 | LV | LV |
| E. CHU 03/04/14 | LV | LV |

E. CHUNG
APR. 14/03

L. VADNAI
MAY 14/03

L. VADNAI
MAY 14/03

TOM BROWN INC.

1478 HP PAVILLION SOUTH COMPRESSOR
GLYCOL COOLING SYSTEM
MECHANICAL FLOWSHEET

D-MFS-031104-100

SHT. 6 OF -

F-1230
REMOTE MOUNT OIL FILTER
WAUKESHA FULL FLOW
c/w ENGINE
REMOTE MOUNT

E-1200
ENGINE OIL COOLER
c/w ENGINE
REMOTE MOUNT

KD-1200
WAUKESHA L7042GSI
1478 hp @ 1200 RPM

F-1200
ENGINE OIL STRAINER
c/w MAGNETIC FILTER ELEMENT
(SEE NOTE 1)

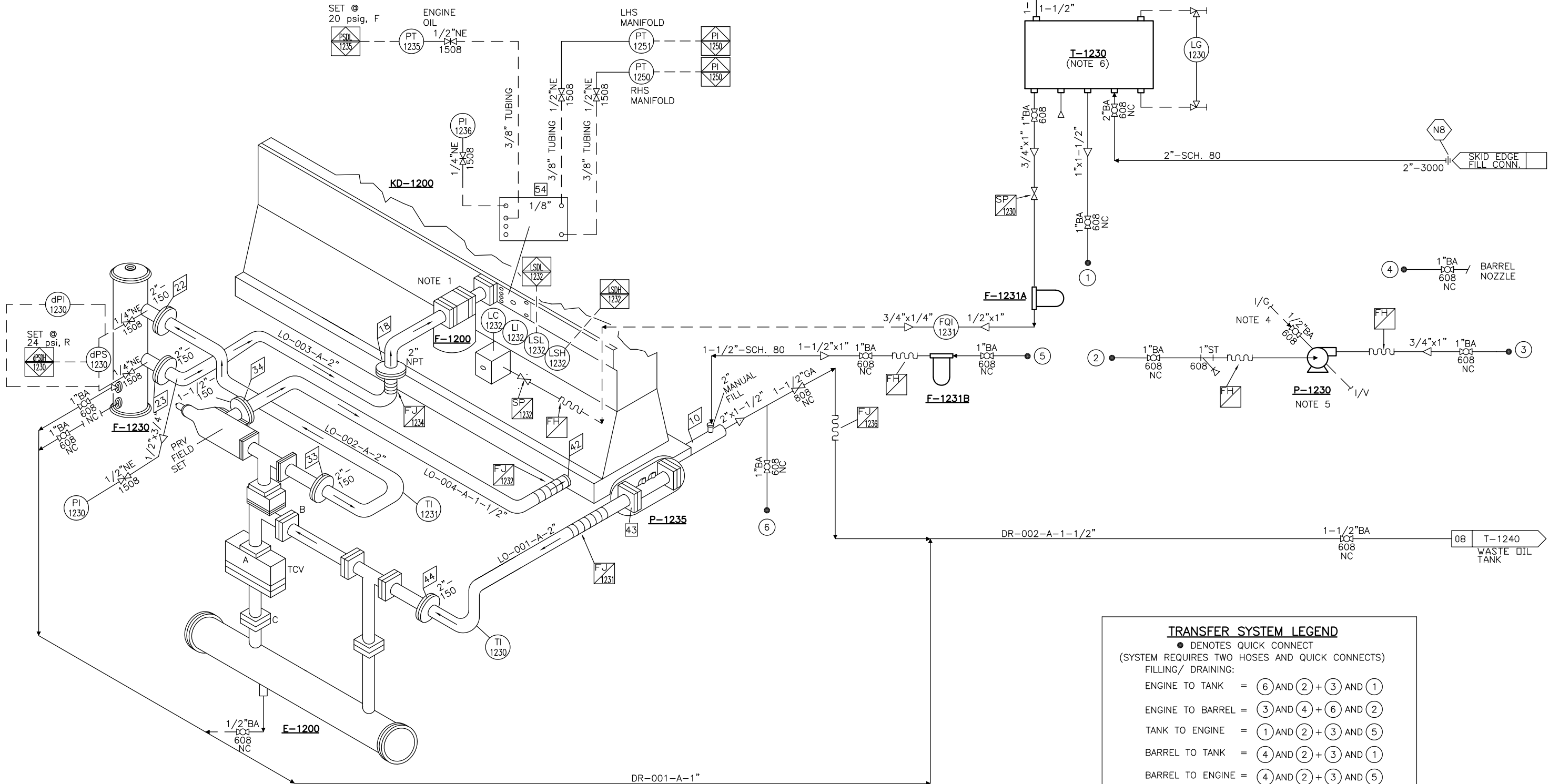
F-1231A/B
OIL SUPPLY FILTER
BALDWIN BF914 HOUSING
c/w BALDWIN BF915 FILTER ELEMENT
1" NPT, 20 psig MAWP

P-1235
ENGINE OIL PUMP
c/w ENGINE

F-1232
FILTER/BREATHER
P/N: S000183
1" THREAD ON

T-1230
ENGINE LUBE OIL SUPPLY TANK
INTEGRAL WITH CRANE
ATM DESIGN, 700 USG

P-1230
OIL TRANSFER PUMP
DIAPHRAGM TYPE
ARO, MODEL 666100
32 gpm MAX. FLOW



1. INSTALL PAPER ELEMENT IN F-1200, RUN PRE LUBE PUMP FOR OIL FLUSH PROCEDURE. REPLACE PAPER ELEMENT PRIOR TO SHOP TEST. RUN.
2. ENGINE CONNECTION INDEX SEE D-MFS-031104-100 SHT. 3.
- 3.
4. LOCATE BA ON WALL NEAR P-1230, NO NE OR REG ON I/G. LOCATE PUMP AND QUICK CONNECTS AT OR ABOVE GRATING HEIGHT.
- 5.
6. CRANE RAILS ARE TIED TOGETHER TO FORM ONE LARGE TANK.

2 ISSUED AS BUILT
1 ISSUED FOR CONSTRUCTION
A ISSUED FOR APPROVAL

N. BOR 04/08/25 MI MI
D. REI 03/05/14 LV LV
E. CHU 03/04/14 LV LV

L. VADNAI
MAY 14/03

E. CHUNG
APR. 14/03

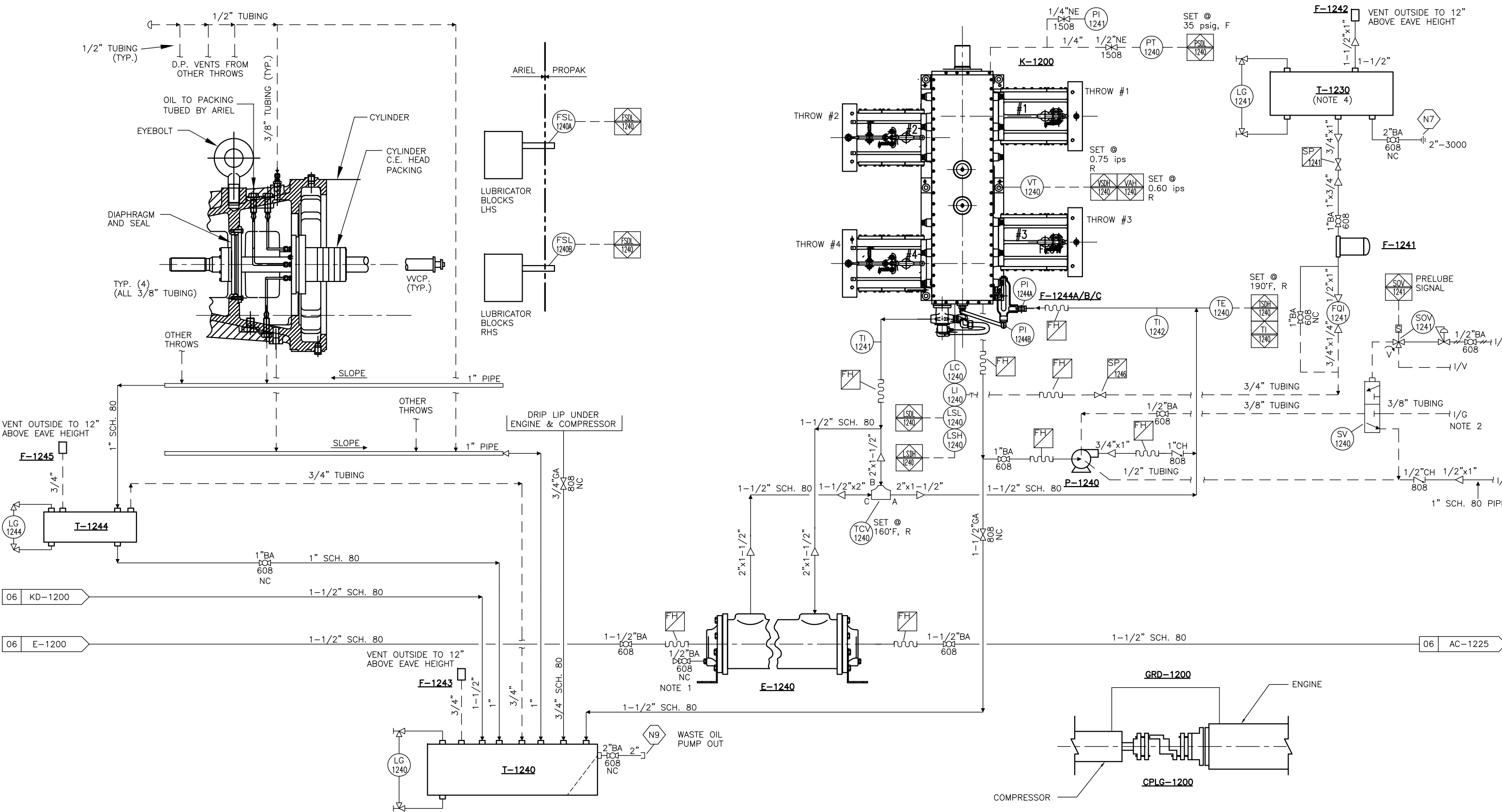
L. VADNAI
MAY 14/03

TOM BROWN INC.
1478 HP PAVILLION SOUTH COMPRESSOR
ENGINE LUBE OIL SYSTEM
MECHANICAL FLOWSHEET

D-MFS-031104-100

SHT. 7 OF - 2

F-1242 FILTER/BREATHER P/N: S000183 1" THREAD ON	F-1245/F-1243 FILTER/BREATHER P/N: S000080 3/4" THREAD ON	T-1244 CYLINDER PACKING SEAL POT 5 USG MINIMUM ATM DESIGN	T-1240 WASTE OIL TANK INTEGRAL WITH SKID ATM DESIGN, 500 US GAL.	E-1240 COMPRESSOR LUBE OIL COOLER SHELL & TUBE ARIEL, PN B-2073	K-1200 RECIPROCATING GAS COMPRESSOR ARIEL JGK-4, 4 THROW RATED AT 2540 hp, MAX. @ 1200 RPM 5.5" STROKE	F-1244A/B/C COMPRESSOR LUBE OIL FILTER c/w ARIEL COMPRESSOR	P-1240 COMPRESSOR PRELUBE PUMP GAS DRIVEN DIAPHRAGM PUMP ARO, MODEL 666100 32 gpm MAX. FLOW	GRD-1200 COUPLING GUARD PROPAK STANDARD CARBON STEEL, REMOVABLE	CPL-1200 DRIVE COUPLING THOMAS REXNORD CMR-700	T-1230 COMPRESSOR LUBE OIL SUPPLY TANK INTEGRAL WITH CRANE ATM DESIGN, 700 US GAL.	F-1241 LUBE OIL SUPPLY FILTER PROPAK STANDARD BALDWIN BF914 HOUSING c/w BALDWIN BF915 FILTER ELEMENT 1" NPT, 20 psig MAWP
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1. CHOOSE SIDE TO MINIMIZE DRAIN LINE
2. NO PRV ON THIS I/G CONNECTION
3. ALL OIL LINE FH COME WITH FIRE RETARDENT SLEEVE.
4. CRANE RAILS ARE TIED TOGETHER TO FORM ONE LARGE TANK.

- | | |
|---|-------------------------|
| 3 | ISSUED AS BUILT |
| 2 | GENERAL REVISIONS |
| 1 | ISSUED FOR CONSTRUCTION |
| A | ISSUED FOR APPROVAL |

- | | | |
|-----------------|----|----|
| N. BOR 04/08/25 | MI | MI |
| T. BAR 03/06/02 | LV | LV |
| D. REI 03/05/14 | LV | LV |
| E. CHU 03/04/14 | LV | LV |

L. VADNAI
MAY 14/03

E. CHUNG
APR. 14/03

L. VADNAI
MAY 14/03

TOM BROWN INC.
1478 HP PAVILLION SOUTH COMPRESSOR
COMPRESSOR LUBRICATION
MECHANICAL FLOWSHEET

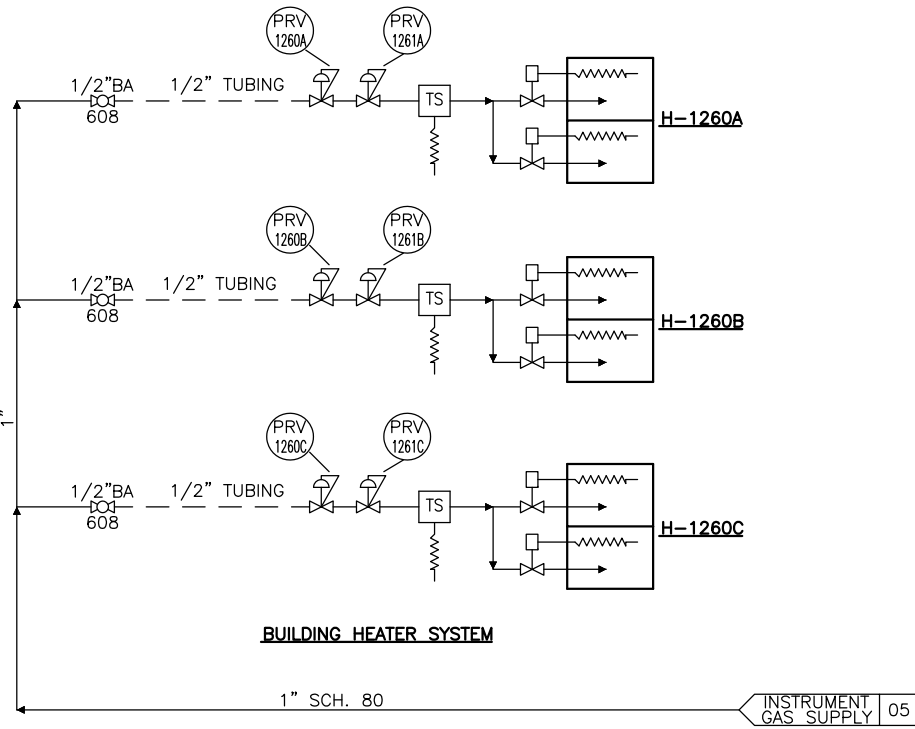
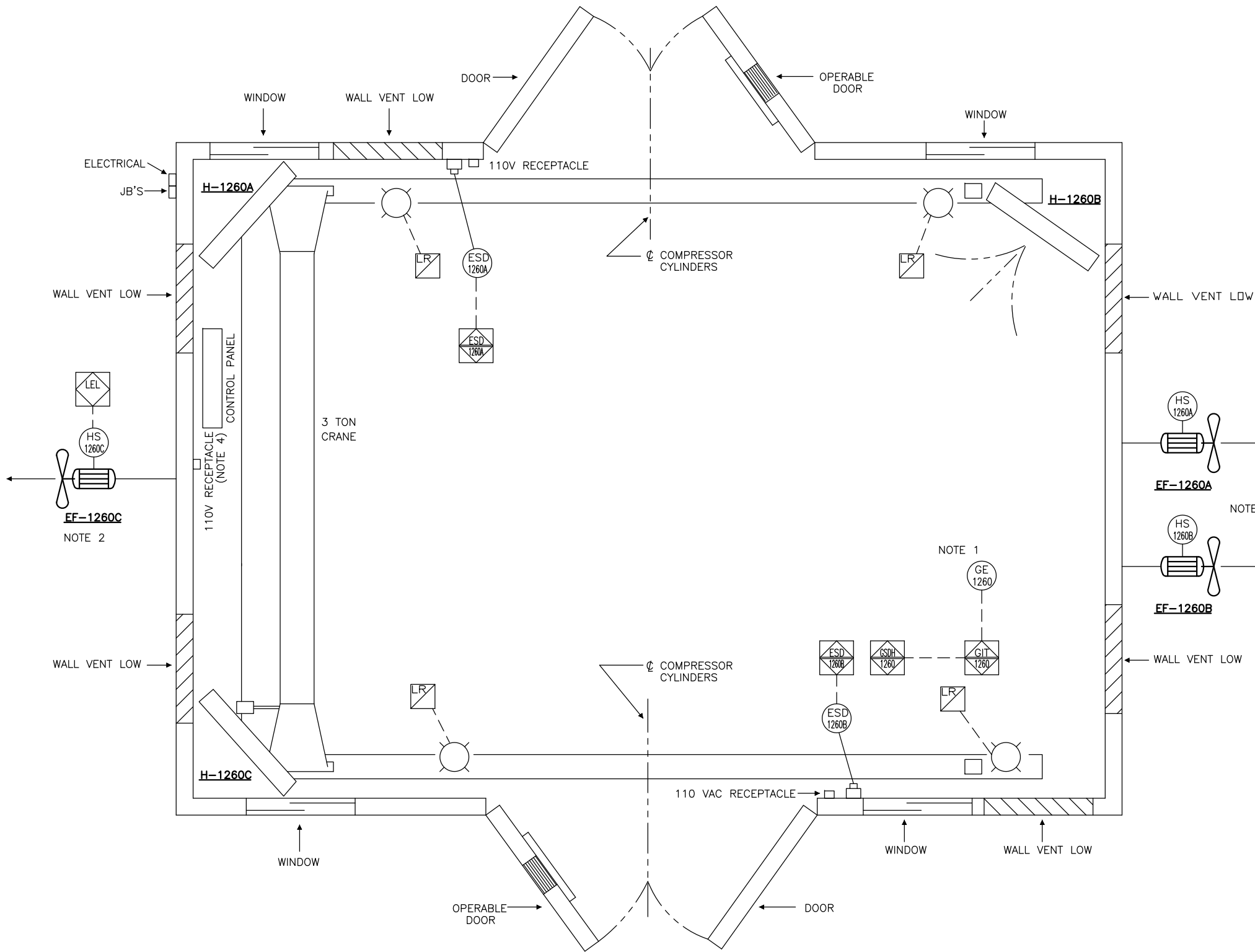
D-MFS-031104-100

SHT. 8 OF - 3

EF-1260A/B/C
EXHAUST FAN
M/N: ET-24.3
6000 CFM, 120V/1PH/60HZ/3/4HP
NEC CLASS 1 DIV 1 GROUP D

H-1260A/B/C
CATALYTIC HEATERS, CATADYNE
45000 BTU/HR, 12VDC START
c/w 25 ft BATTERY CABLES
MOUNTED ON REMOVABLE
HANGER ON BULDG. EXTERIOR WALL
CATADYNE M/N Bx 24x48

LR-1260
CROUSE HINDS
175 W/120 VAC METAL HALIDE
QTY (4)
NEC CLASS 1 DIV 1 GROUP D



1. MOUNT ABOVE COMPRESSOR.
2. MOUNT BUILDING EXHAUST FANS UP HIGH.
3.

4. 110V RECEPTACLE TO BE MOUNTED NEAR
WORK BENCH.

4 ISSUED AS BUILT
3 GENERAL REVISIONS
2 GENERAL REVISIONS
1 ISSUED FOR CONSTRUCTION
A ISSUED FOR APPROVAL

N. BOR 04/08/25 MI MI
T. BAR 03/06/02 LV LV
P. FEN 03/05/20 LV LV
D. REI 03/05/14 LV LV
E. CHU 03/04/14 LV LV

L. VADNAI
MAY 14/03

E. CHUNG
APR. 14/03

L. VADNAI
MAY 14/03

TOM BROWN INC.
1478 HP PAVILLION SOUTH COMPRESSOR
BUILDING UTILITIES
MECHANICAL FLOWSHEET

D-MFS-031104-100

SHT. 9 OF 4