

THE INFORMATION CONTAINED HEREIN IS THE CONFIDENTIAL PROPERTY OF TOROMONT ENERGY SYSTEMS AND IS NOT FOR PUBLICATION, AND NO PART THEREOF SHALL BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT AUTHORIZATION FROM TOROMONT ENERGY SYSTEMS.

SKID GENERAL NOTES:

UNIT LOCATION: xxx
ELECTRICAL CLASSIFICATION: CLASS 1, DIV. II, GROUP D
(FIRE AND GAS DETECTION AS REQ'D BY OTHERS)
MINIMUM DESIGN INDOOR TEMPERATURE: 60 DEG.F
MAXIMUM DESIGN AMBIENT TEMPERATURE: 95 DEG.F
INSTRUMENT GAS CONSUMPTION: SCFH
ATMOSPHERIC PRESSURE: 13.4 PSIA
ELEVATION: 2500 FT. DESIGN

FLUID VOLUMES

COMPRESSOR OIL TYPE: S5-100
C.L.O.W WATER: 50/50 ETHYLENE GLYCOL
NET WEIGHT OF FLUIDS: 3670 LBS
1665 KGS

CUSTOMER INTERFACE

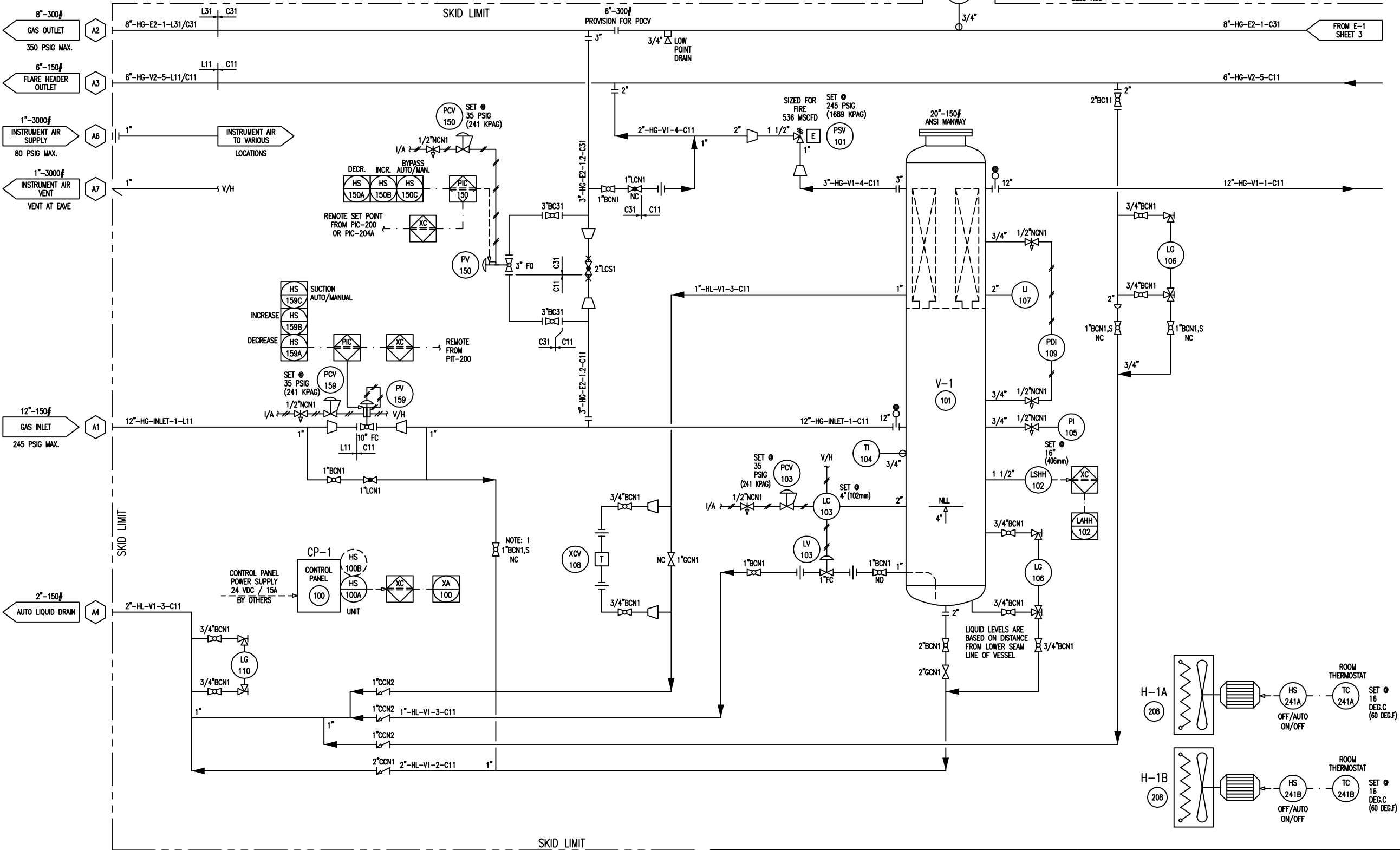
INPUTS:
REMOTE ESD
CP-1 POWER SUPPLY 15A, 24V DC

OUTPUTS:
RUN STATUS

CP-1
CONTROL PANEL
MAKE: TPS ALLEN BRADLEY
MODEL: COMPACT LOGIX
POWER: 24 VDC
CSA APPROVED CLASS I, DIV II,
GROUP D
WEIGHTS: 120 LBS
54 KGS

V-1
COMPRESSOR SUCTION FILTER
SIZE: 54" ID X 102" S/S
DESIGN PRESS.: -15/245 PSIG @ 250 DEG.F
MDMT: -20 DEG.F @ 245 PSIG
C.A.: 0.0625"
SHELL MATERIAL: SA-516-70
HEAD MATERIAL: SA-516-70
ELEMENTS: (22) JPMG-36349-V
WEIGHTS: 7250 LBS
3289 KGS

H-1 A/B
BUILDING HEATER
MAKE: RUFFNECK ELECTRIC
MODEL: FX 420-480360-30
POWER: 30 KW (102, 350 BTU/HR)
3 / 60 / 480 VAC
ENCLOSURE: EXPLOSION PROOF
CLASS I DIV II GROUPS C & D
WEIGHTS: 172 LBS EACH
78 KGS EACH



NOTE: 1 LOCATE VALVE SO THAT THE OPERATOR CAN
SEE LG-110 WHILE HOLDING THE VALVE OPEN.

REV.	DESCRIPTION	DATE	BY	APPR.
2	AS BUILT	AUG 26/08	MB	AD
1	ISSUED FOR CONSTRUCTION	MAY 09/08	GH	AD

ENGINEER STAMP



DRAWN BY:
GORD HOWE
CHKD. BY:
A. DURHAM
APPR. BY:
A. DURHAM
CUST. PO No:

DATE:
MAY 09, 2008
SCALE:
NTS
W.O. No:
12211101

TITLE:
P & I FLOW DIAGRAM
FOR:
HUSKY ENERGY INC
1500HP / ELECTRIC - SGC2817
BOOSTER COMPRESSOR
DWG. No: 12211-101
SHEET No: 1 OF 4
REV: 2

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C-1
GAS COMPRESSOR

FRICK: SGC-2817
OPERATING SPEED: 3600 RPM
SUCTION PRESSURE: SEE CURVE
DISCHARGE PRESSURE: SEE CURVE
OIL TEMPERATURE: 160 DEG.F
POWER DRAW: SEE CURVE
WEIGHTS: 4400 LBS
1860 KGS

F-1A/B
OIL FILTERS

SIZE: 8 5/8" O.D. X 26" S/F
MAWP: 3103 KPAG @ 121 DEG.C
MDMT: -29 DEG.C @ 3103 KPAG
CA: 1.6 MM
SHELL MATERIAL: SA-106B
HEAD MATERIAL: SA-516-70
ELEMENT: (1) MODEL 1833C
WEIGHTS: 275 LBS
125 KGS

CM-1
ELECTRIC MOTOR

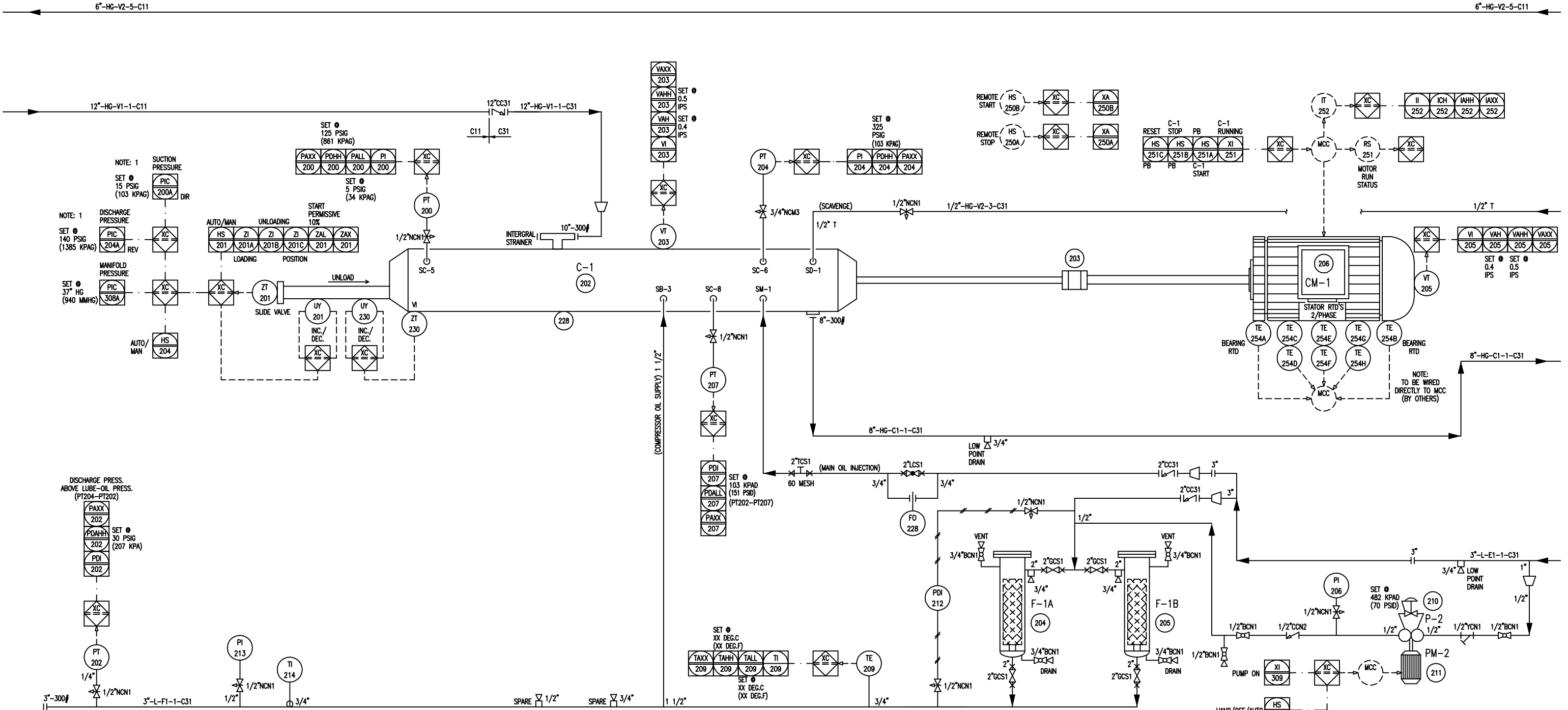
MAKE: TECO WESTINGHOUSE
POWER: 1500 HP @ 3600 RPM
3 / 60 / 2300-4160 VAC
SERVICE FACTOR: 1.15
CLASS F INSULATION
EFF. @ 100 / 75 / 50% : 95.6 / 95.5 / 95.4
PF. @ 100 / 75 / 50% : 90.0 / 89.0 / 87.0

P-2
COMPRESSOR PRE-LUBE PUMP

MAKE: TUTHILL
MODEL: 4105V-C-7
FLOW: 5 USGPM @ 1750 RPM
FLUID: CP-4601-150 COMPRESSOR OIL
WEIGHT: 80 LBS
36 KGS

PM-2
COMPRESSOR PRE-LUBE PUMP MOTOR

MAKE: BALDOR
MODEL: CM7006A
OPERATING SPEED: 1750 RPM
VOLTAGE: 460 VAC/ 3PH/ 60HZ
ENCLOSURE: XP
POWER OUTPUT: 0.5 HP @ 1800 RPM
FRAME: 56C
WEIGHT: 100 LBS
45 KGS



SKID LIMIT

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P-4
COMPRESSOR TRANSFER PUMP

MAKE: TUTHILL
MODEL: 4105V-C-7
MAWP: 500 PSIG
FLOW: 5 GPM
FLUID: COMPRESSOR OIL
PM-4
COMPRESSOR TRANSFER PUMP MOTOR
MAKE: HYBON
MODEL: BF

V-2
OIL SEPARATOR

SIZE: 48" I.D. X 102" S/S
MAWP: 2758 KPAG @ 121 DEG.C
MDMT: -29 DEG.C @ 2758 KPAG
CA: 1.6 MM
SHELL MATERIAL: SA-516-70N
HEAD MATERIAL: SA-516-70N
ELEMENT: (7) RSC1175-3
WEIGHTS: 6380 LBS
2893 KGS

T-3
SPARE OIL TANK

SIZE: HSS:
1/4" THK X 12" X 8" X 300 LG
VOLUME: 93 GAL
T-4
SPARE OIL TANK
SIZE: HSS:
1/4" THK X 12" X 8" X 300 LG
VOLUME: 93 GAL

T-1
USED GLYCOL STORAGE TANK

SIZE: HSS:
3/8" THK X 12" X 8" X 342 LG
VOLUME: 243 GAL
T-2
USED OIL STORAGE TANK
SIZE: HSS:
3/8" THK X 12" X 8" X 342 LG
VOLUME: 243 GAL

E-1
OIL COOLER

MODEL: VEX VYN-46-SS-FS-1-100
PLATES: 67
MAWP OIL SIDE: 2758 KPAG @ 149 DEG.C
MAWP GLYCOL SIDE: 2758 KPAG @ 149 DEG.C
WEIGHTS: 2715 LBS
1232 KGS

P-1
GLYCOL CIRCULATION PUMP

MAKE: GOULD 3756M 3 X 4 -8
MODEL: 16AIFRMAO
IMPELLER SIZE: 171.5 MM
PRESSURE: 11 M HEAD
FLOW: 1325 LPM
FLUID: 50/50 GLYCOL
OPERATING SPEED: 1750 RPM
POWER DRAW: 4.5 KW
WEIGHTS: 143 LBS
65 KGS

PM-1
GLYCOL CIRCULATION PUMP MOTOR

MAKE: TECO
MODEL: EP07.504TE2-HPE
POWER OUTPUT: 5.6 KW @ 1800 RPM
S.F.: 1.15
POWER: 3 / 60 / 460 VAC
ENCLOSURE: TEFC
WEIGHTS: 148 LBS
67 KGS

P-3
GLYCOL TRANSFER PUMP

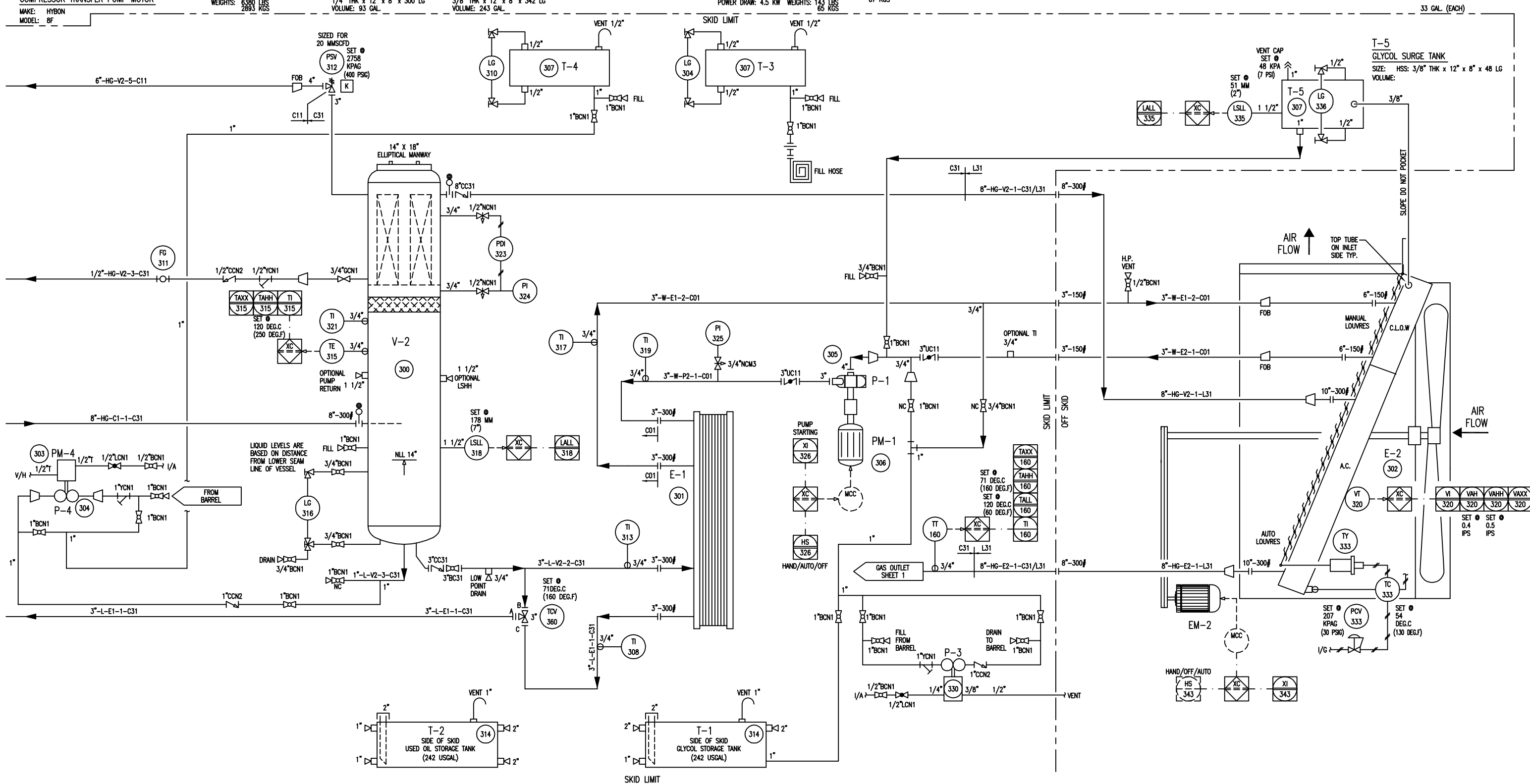
MAKE: SANDPIPER
MODEL: G05B1ABTXNSX00
INLET GAS PRESSURE: 689 KPAG MAX.
FLOW: 57 LPM @ 552 KPAG
FLUID: GLYCOL
WEIGHT: 15 LBS
7 KGS

E-2
COMPRESSOR AFTERCOOLER/OIL COOLER/GLYCOL COOLER

TYPE: AIR-X-CHANGERS
MODEL: 132EH-100-20
AFTERCOOLER COIL: MAWP: 2758 KPAG @ 149 DEG.C
MDMT: -40 DEG.C @ 2758 KPAG
DUTY: 2,043,187 BTU/HR
GLYCOL COIL: MAWP: 97 KPA @ 149 DEG.C
(OIL COOLER GLYCOL) DUTY: 2,022,100 BTU/HR
FAN: MOORE-CL 10K
FAN SPEED: 275 RPM
TOTAL AIR FLOW: 161,854 SCFM
POWER DRAW: 25.7 KW
WEIGHTS: 18050 LBS
8187 KGS

EM-2
COOLER MOTOR

TYPE: ELECTRIC MOTOR, VFD
POWER OUTPUT: 37.3 KW @ 1800 RPM
POWER: 3 / 60 / 460 VAC
ENCLOSURE: TEFC



NOTE: 1 LOCATE OUTSIDE AND AS LOW AS POSSIBLE.
NOTE: 2 WIRING BY OTHERS

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APPR. BY: A. DURHAM
CUST. PO No:

DATE: MAY 09, 2008
SCALE: NTS
W.O. No: 12211101

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LINE IDENTIFICATION

VALVE IDENTIFICATION

VALVE TYPES

(MODIFIER)

INSTRUMENT IDENTIFICATION GENERAL REFERENCE (ISA – S5.1)

A–B–CCDDD–E–FGH–I,J,K

A”BCDE,F

A : NOMINAL LINE SIZE IN INCHES

A : NOMINAL VALVE SIZE IN INCHES

B : FLUID

B : TYPE

C CARBON DIOXIDE
CW COOLING WATER
FG FUEL GAS
G GLYCOL
HG HYDROCARBON GAS
HL HYDROCARBON LIQUID
I/A INSTRUMENT AIR
I/G INSTRUMENT GAS
L LUBE OIL (COMPRESSOR)
NG NATURAL GAS
P PROPANE
PG PURGE GAS
V PRODUCED WATER

A ANGLE GLOBE N NEEDLE
B BALL P PLUG
C CHECK S START-UP STRAINER
G GATE T TEE STRAINER
L GLOBE U BUTTERFLY
M MANIFOLD Y Y PATTERN STRAINER

C : EQUIPMENT TYPE / MODIFIER (IF REQUIRED)

C : BODY MATERIAL

B BRONZE L LOW TEMP. CARBON STEEL
C CARBON STEEL S STAINLESS STEEL
I CAST IRON

B BLOWER
C COMPRESSOR
D DRIVER (MOTOR/ENGINE)
E EXCHANGER
F FILTER
H HEATER
P PUMP
T TANK
V PRESSURE VESSEL

D : END CONNECTIONS

1 FLANGED 150# B BUTT WELD
3 FLANGED 300# C SW BY NPT
6 FLANGED 600# F NPT BY FLANGE (MANIFOLD)
9 FLANGED 900# M NPT MALE BY NPT FEMALE
15 FLANGED 1500# N NPT (THREADED)
25 FLANGED 2500# S SW (SOCKETWELD)
T TUBE (SWAGELOCK)

D : EQUIPMENT NUMBER:
101 TO 999 SEQUENTIAL NUMBERS

E : UNIQUE DESCRIPTION
REFER TO VALVE DATA SHEETS

E : LINE NUMBER:
1 TO 9 SEQUENTIAL NUMBERS
FROM EQUIPMENT

F : MODIFIER

C CHAIN OPERATOR O OXYGEN SERVICE/CLEANING
E EXTENDED BONNET P FULL PORT DESIGN
G GEAR OPERATOR R RTJ FLANGED
L LOCKING DEVICE S SPRING HANDLE (CLOSE)
N NACE TRIM X SPECIAL SPECIFICATIONS

FGH : PIPING SPECIFICATION

EXAMPLE: 6”GC11,C

F : MATERIAL GROUP
C CARBON STEEL
L LOW TEMPERATURE CARBON STEEL
S STAINLESS STEEL

G : ANSI 16.5 FLANGE CLASS
0 NON CODE
1 150#
3 300#
6 600#
9 900#
15 1500#
25 2500#

H : LINE MATERIAL SPECIFICATION REFERENCE:
1 TO 9 SEQUENTIAL NUMBERS

I : INSULATION TYPE (IF REQUIRED)

C COLD
H HOT
HC HOT/COLD
HT HEAT TRACING
PP PERSONAL PROTECTION

J : INSULATION THICKNESS (IF REQUIRED)
THICKNESS IN MILLIMETERS OR INCHES

K : TRACING (IF REQUIRED)

ET ELECTRICAL TRACING
GT GLYCOL TRACING
ST STEAM TRACING

EXAMPLE: 3”–HG–V101–1–C61–HTXX,ET

3” – LINE SIZE
HG – HYDROCARBON GAS
V101 – PRESSURE VESSEL TAG NUMBER
1 – FIRST LINE FROM VESSEL
C61 – C CARBON STEEL LINE
6 600# ANSI FLANGE RATING
1 LINE MATERIAL SPECIFICATION REFERENCE
HT – HEAT TRACING INSULATION
XX – THICKNESS IN MILLIMETERS OR INCHES (”)
ET – ELECTRIC TRACING

POSITIONER
DIAPHRAGM CONTROL VALVE

OUTLET PRESSURE REGULATOR
(SELF-CONTAINED)

INLET PRESSURE REGULATOR
(SELF-CONTAINED)

PRESSURE DIFFERENTIAL CONTROL
VALVE (SELF-CONTAINED)

TWO-WAY SOLENOID VALVE

THREE-WAY SOLENOID VALVE

MOTOR ACTUATOR

HYDRAULIC/
PNEUMATIC PISTON
OPERATED

CONTROL VALVES

MISCELLANEOUS

PRESSURE SAFETY/
RELIEF VALVE
DESIGNATES API
ORIFICE SIZE

RUPTURE DISC
FOR PRESSURE RELIEF

RUPTURE DISC
FOR VACUUM RELIEF

SPECTACLE BLIND
(LINE OPEN)

SPECTACLE BLIND
(LINE CLOSED)

CONE START-UP
STRAINER

BASKET START-UP
STRAINER

Y-PATTERN STRAINER

TEE STRAINER

FLEXIBLE CONNECTION

CONTINUOUS
LIQUID DRAINER
OR STEAM TRAP

VORTEX BREAKER

DIAPHRAM SEAL

SKID TIE-POINTS

OPEN DRAIN

THICKNESS
INSULATION TYPE

ELECTRIC
HEAT TRACE

GLYCOL OR STEAM
HEAT TRACE

ANGLE GLOBE VALVE
BALL VALVE
BUTTERFLY VALVE
CHECK VALVE
GATE VALVE
GLOBE VALVE
NEEDLE VALVE
PLUG VALVE
3-WAY VALVE
4-WAY VALVE
VALVE W/BLEED
VALVE W/PLUG

VALVE CONNECTIONS

THREADED
WELDED (BUTT OR SOCKET)
THREADED BY WELDED
FLANGED

LINE CODE

PRIMARY PROCESS LINE
SECONDARY PROCESS LINE
INSTRUMENT PROCESS LINE (TUBING)
BY OTHERS
SKID LIMIT
PNEUMATIC SIGNAL
ELECTRIC SIGNAL
CAPILLARY TUBING
INSTRUMENT SYSTEM LINK
(ELECTRONIC MEMORY SHARING)

INSTRUMENTS

LOCAL MOUNTED
LOCAL PANEL MOUNTED
MOUNTED BEHIND OR
IN LOCAL PANEL
MAIN PANEL MOUNTED
MOUNTED BEHIND OR
IN MAIN PANEL
MAN MACHINE INTERFACE
IN MAIN PANEL
BY OTHERS
PILOT LIGHT
* COLOUR
(A) AMBER (B) BLUE
(G) GREEN (O) ORANGE
(R) RED (W) WHITE
RELAY OR CONVERTER
* FOR INPUT/OUTPUT SEQUENCES
DESIGNATION: SIGNAL:
I CURRENT (ELECTRICAL)
P PNEUMATIC
PROGRAMMABLE LOGIC CONTROLLER (PLC)
XC REPRESENTS GENERAL LOGIC
INTERLOCK
ELECTRICAL (HARD WIRE) INTERLOCK
THERMOWELL (THREADED)
THERMOWELL (WELDED)

(C) –CLOSE (O) –OPEN
(H) –HIGH ALARM (L) –LOW ALARM
(HH) –HIGH SHUTDOWN (LL) –LOW SHUTDOWN
(XX) –DIAGNOSTIC SHUTDOWN
(USED TO INDICATE THE
DIAGNOSTIC CHECK REQ'D
ON THE ANALOG INPUT)

ABBREVIATIONS

AOUT AUTOMATIC OUTPUT
CA CORROSION ALLOWANCE
CSO CAR SEAL OPEN
CUST CUSTOMER
DEG.C DEGREES CELSIUS
DEG.F DEGREES FARENHEIT
DIR DIRECT ACTING
DB DEADBAND
Δ DELTA (DIFFERENTIAL)
ESD EMERGENCY SHUTDOWN
FC FAIL CLOSED
FO FAIL OPEN
FOT FLAT ON TOP
FLP FAIL LAST POSITION
FT2 SQUARE FEET
FT3 CUBIC FEET
HI HIGH
HLL HIGH LIQUID LEVEL
HR HOUR
HTR HEATER
I/A INSTRUMENT AIR
I/G INSTRUMENT GAS
I/O INPUT / OUPUT
ID INSIDE DIAMETER
KGS KILOGRAMS
KPAA KILOPASCAL ABSOLUTE
KPAD KILOPASCAL DIFFERENTIAL
KPAK KILOPASCAL GAUGE
KW KILOWATTS
LBS POUNDS
LC LOCKED CLOSED
LO LOCKED OPEN
LP LOCKED IN POSITION
M2 SQUARE METERS
M3 CUBIC METERS
MAX MAXIMUM
MAWP MAXIMUM ALLOWABLE WORKING PRESSURE
MCC MOTOR CONTROL CENTER
MDMT MINIMUM DESIGN METAL TEMPERATURE
MIN MINIMUM
MM MILLIMETER
MOUT MANUAL OUTPUT
MS MOTOR STARTER
NC NORMALLY CLOSED
NLL NORMAL LIQUID LEVEL
NO NORMALLY OPEN
NPT NATIONAL PIPE THREAD
OIC OPERATOR INTERFACE COMPUTER
OD OUTSIDE DIAMETER
PB PUSH BUTTON
PSIA POUNDS / SQUARE INCH ABSOLUTE
PSID POUNDS / SQUARE INCH DIFFERENTIAL
PSIG POUNDS / SQUARE INCH GAUGE
PLC PROGRAMMABLE LOGIC CONTROLLER
REV REVERSE ACTING
RST RESET (INTEGRAL)
SCR SILICON CONTROLLED RECTIFIER
S/F SEAM TO FACE OF FLANGE
SP SETPOINT
SPC CALCULATED SETPOINT
SS SELECTOR SWITCH
S/S SEAM TO SEAM
T/T TANGENT TO TANGENT
TS/TS TUBESHEET TO TUBESHEET
T/L TUBE LENGTH
V/H VENT HEADER

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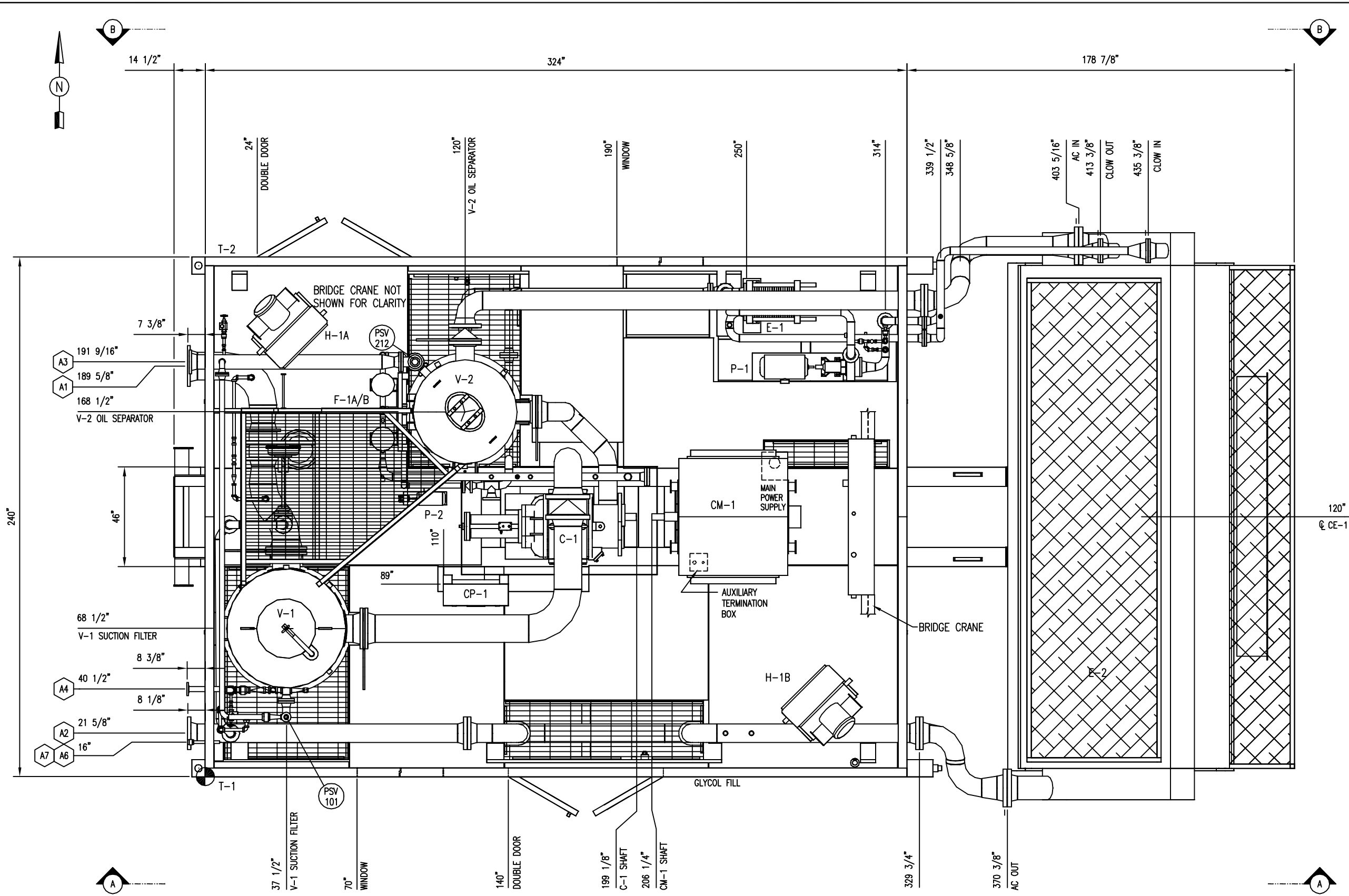
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NOZZLE SCHEDULE				
MARK	SERVICE	SIZE	RATING	TYPE
A1	GAS INLET	12"	150#	RFWN
A2	GAS OUTLET	8"	300#	RFWN
A3	FLARE HEADER OUTLET	6"	150#	RFWN
A4	AUTO LIQUID DRAIN	2"	150#	RFTHD
A5	-	-	-	-
A6	INSTRUMENT AIR SUPPLY	1"	3000#	UNION
A7	INSTRUMENT AIR VENT	1"	XS	PIPE

- GENERAL NOTES:
- ALL TAIL DIMENSIONS FROM REFERENCE POINT.
 - SHIPPING LENGTH: 518"
SHIPPING WIDTH: 240"
SHIPPING HEIGHT: 251"
 - SHIPPING WEIGHT: (W/FLUIDS) 129,129 LBS
 - OVERALL SKID DEPTH: 23 15/16"
 - NOZZLE ELEVATIONS ARE FROM CENTERLINE OF PIPE TO TOP OF BASE (REFERENCE POINT).
 - (*) DENOTES ELEVATION FROM FACE OF FLANGE TO TOP OF BASE (REFERENCE POINT).

PLAN VIEW

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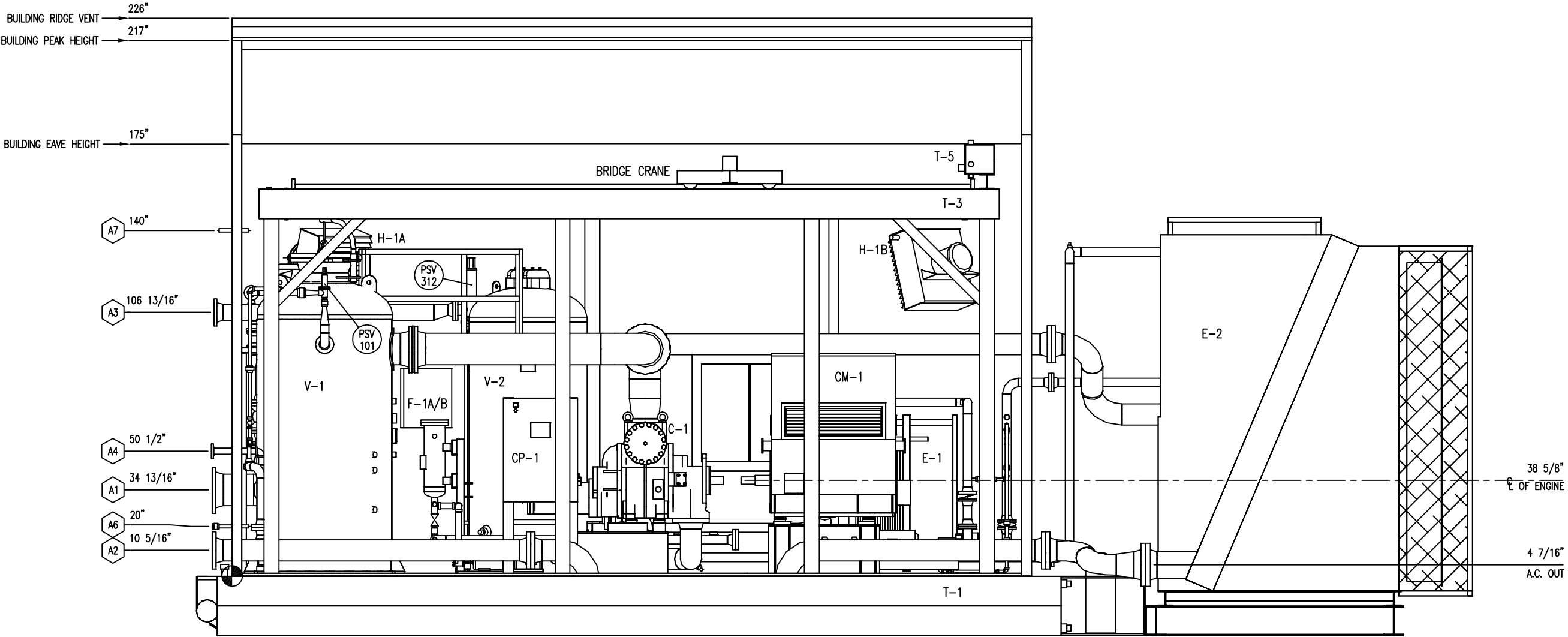
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DRAWN BY: GORD HOWE
DATE: FEB 07, 2008
CHKD. BY: A. DURHAM
SCALE: 1/2" = 1'-0"
APPR. BY: A. DURHAM
W.O. No: 12211201

TITLE: GENERAL ARRANGEMENT
PLAN VIEW
FOR: HUSKY ENERGY INC
1500HP / ELECTRIC - SGC2817
BOOSTER COMPRESSOR
DWG. No: 12211-201
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ELEVATION 'A-A'

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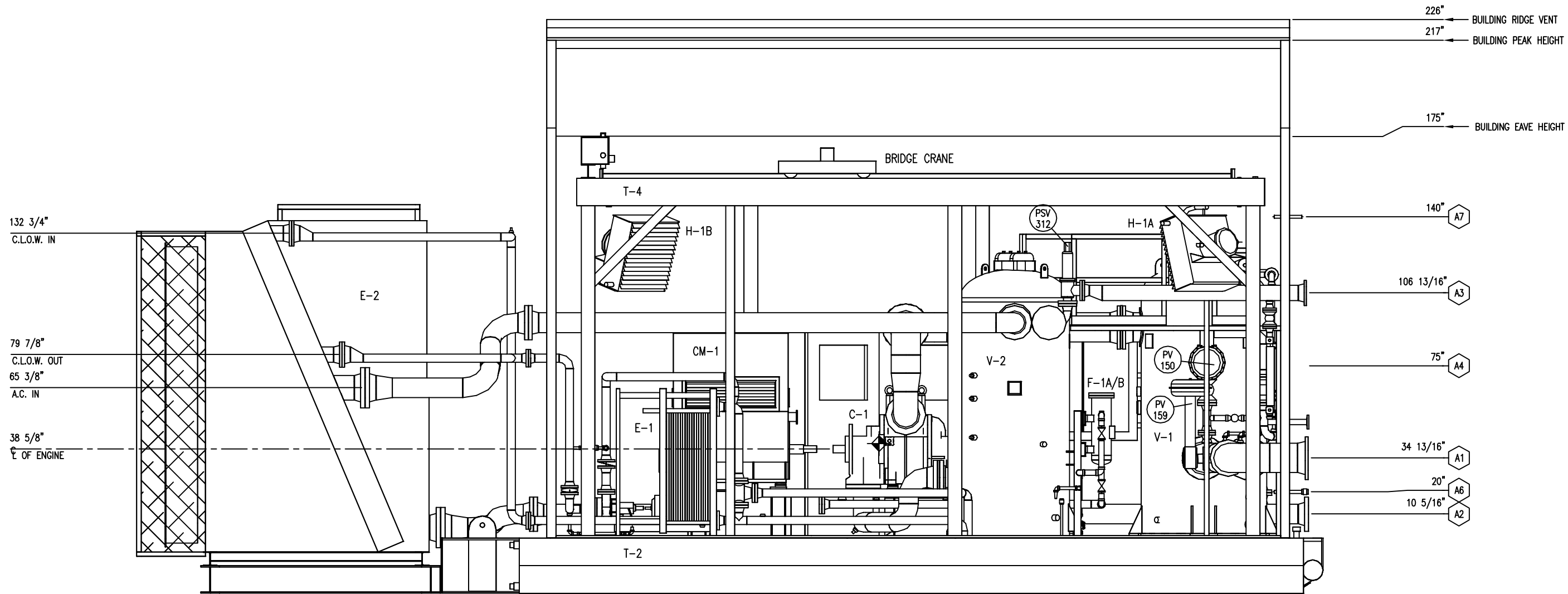
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DRAWN BY: GORD HOWE	DATE: FEB 07, 2008
CHKD. BY: A. DURHAM	SCALE: 1/2" = 1'-0"
APPR. BY: A. DURHAM	W.O. No: 12211201
CUST. PO No:	

TITLE: GENERAL ARRANGEMENT ELEVATION 'A-A'	
FOR: HUSKY ENERGY INC 1500HP / ELECTRIC - SGC2817 BOOSTER COMPRESSOR	
DWG. No: 12211-201	SHEET No: 2 OF 4 REV: 2

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ELEVATION 'B-B'

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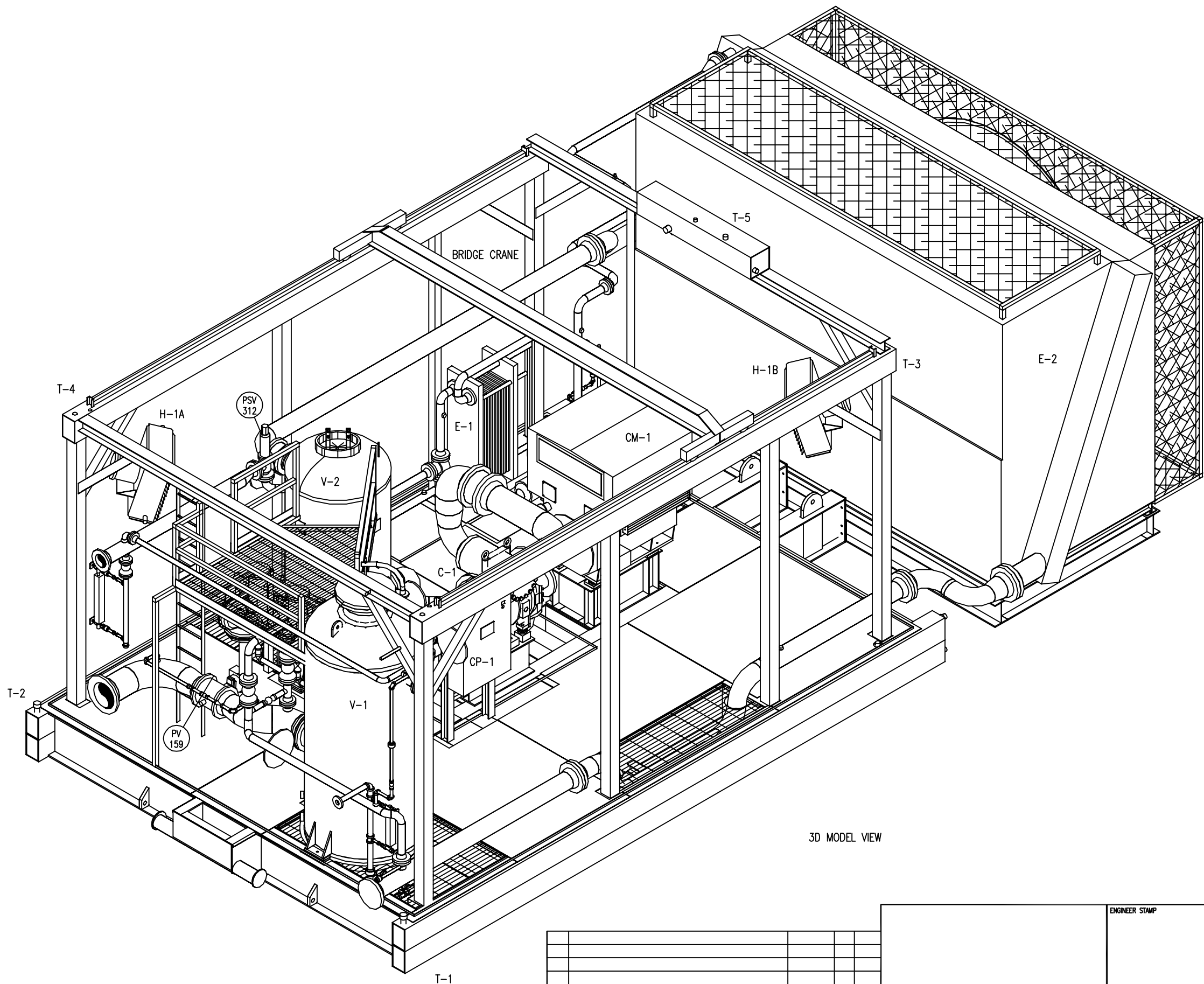
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ELEVATION 'B-B'

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3D MODEL VIEW

T-1

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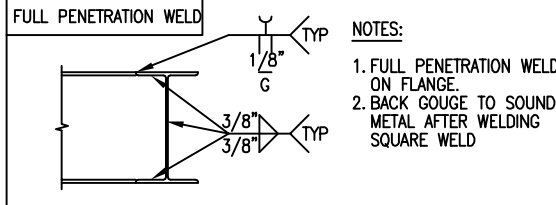
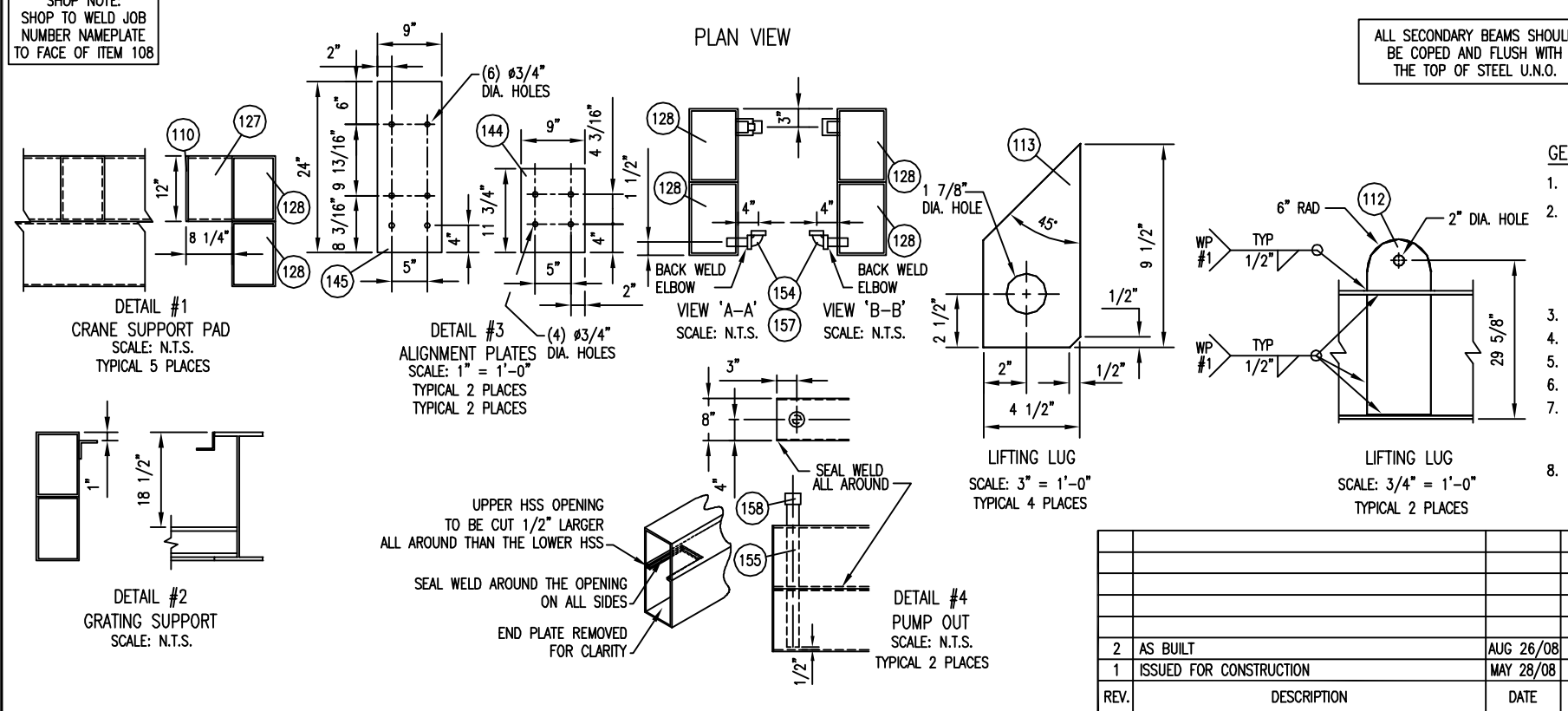
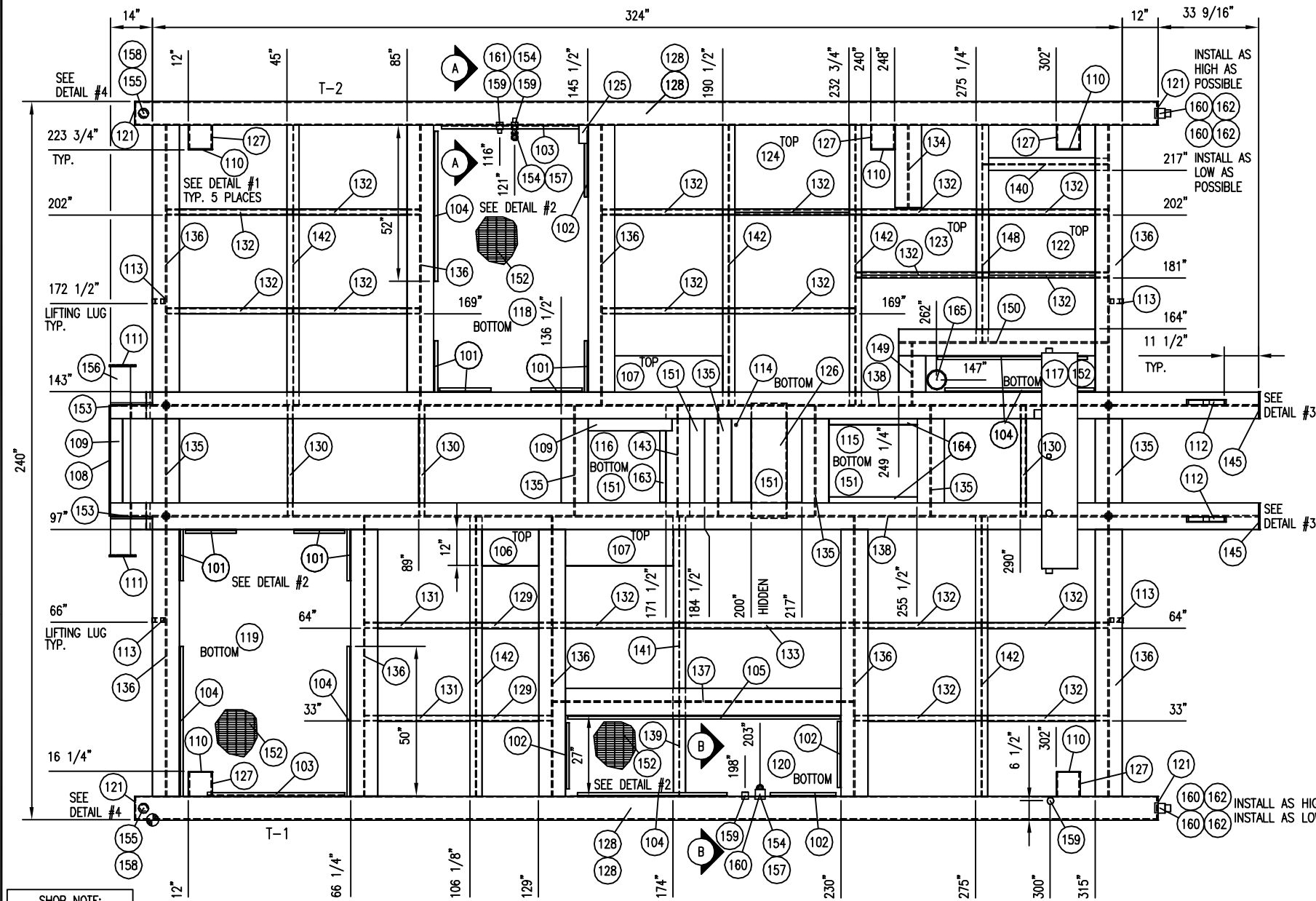
ENGINEER STAMP	

ENGINEER STAMP	

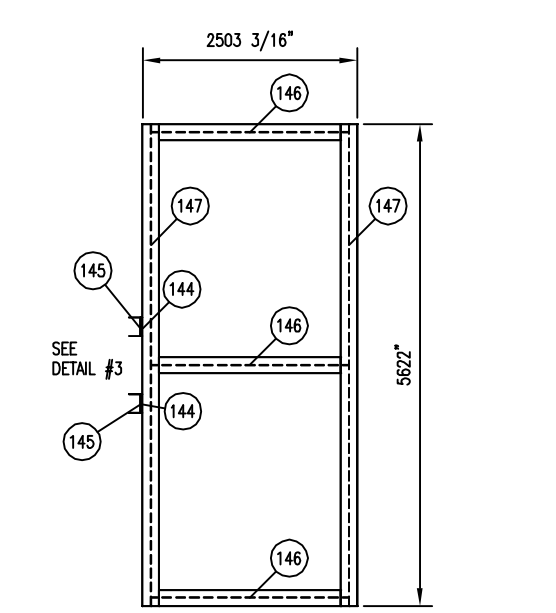
DRAWN BY: GORD HOWE	DATE: FEB 07, 2008
CHKD. BY: A. DURHAM	SCALE: N.T.S.
APPR. BY: A. DURHAM	W.O. No: 12211201
CUST. PO No:	

TITLE: 3D MODEL VIEW	
FOR: HUSKY ENERGY INC 1500HP / ELECTRIC - SGC2817 BOOSTER COMPRESSOR	
DWG. No: 12211-201	SHEET No: 4 OF 4
REV: 2	

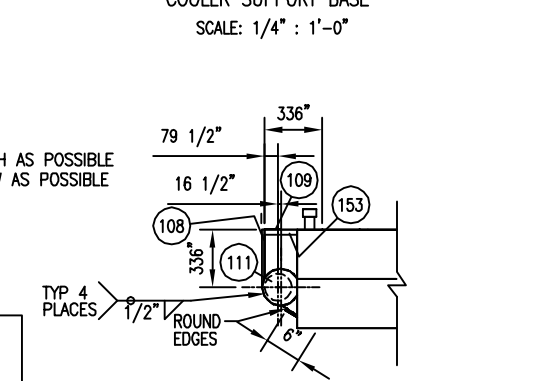
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NOTES:
1. FULL PENETRATION WELD ON FLANGE.
2. BACK GOUGE TO SOUND METAL AFTER WELDING SQUARE WELD



COOLER SUPPORT BASE
SCALE: 1/4" : 1'-0"



DRAG BAR
SCALE: 1/2" : 1'-0"

GENERAL NOTES:
1. ALL TAIL DIMENSIONS FROM REFERENCE POINT.
2. WEIGHT OF SKID STEEL BASE: 24,430 LBS (MILL TOLERANCES & S.F. NOT APPLIED)
WEIGHT OF CONCRETE: 8,410 LBS
TOTAL WEIGHT: 32,842 LBS
3. COPE FLANGES WHERE REQUIRED.
4. ALL WELDS TO BE 1/4" FILLETS ALL AROUND, UNLESS OTHERWISE NOTED.
5. ALL CUT LENGTHS ARE EXACT TOL +0.0/-0.125" (+0 MM/-3 MM)
6. ALL BOLT HOLES ARE 3/4"(19 MM) UNLESS OTHERWISE NOTED.
7. SURFACE PREP: SSPC-SP2
PRIMER: ONE COAT OF PRI-1 RED OXIDE
PAINT: ONE COAT OF FIN-1
8. FULL PENETRATION STRENGTH WELD IS REQ'D AT THESE LOCATIONS.

STEEL BILL OF MATERIAL					
MARK	QTY	DESCRIPTION	MATERIAL	LENGTH	PART_NUMBER
101	8	ANGLE,1-1/4" X 1-1/4",1/4" THK	G40.2144W	17	005-HA-0125-0125-0025
102	4	ANGLE,1-1/4" X 1-1/4",1/4" THK	G40.2144W	22	005-HA-0125-0125-0025
103	2	ANGLE,1-1/4" X 1-1/4",1/4" THK	G40.2144W	46	005-HA-0125-0125-0025
104	6	ANGLE,1-1/4" X 1-1/4",1/4" THK	G40.2144W	50	005-HA-0125-0125-0025
105	1	ANGLE,1-1/4" X 1-1/4",1/4" THK	G40.2144W	91	005-HA-0125-0125-0025
106	1	FLAT BAR,12" X 1/2" THK	G40.2144W	18 7/8	010-HA-1200-0050
107	2	FLAT BAR,12" X 1/2" THK	G40.2144W	36	010-HA-1200-0050
108	1	PLATE,1/2" X 36 15/16" X 14"	G40.2144W	36 15/16	040-HA-0050
109	2	FLAT BAR,4" X 1/4" THK	G40.2144W	28	010-HA-0400-0025
110	5	FLAT BAR,8" X 1/4" THK	G40.2144W	12	010-HA-0800-0025
111	2	PLATE,1/2" X 9" DIA.	G40.2144W	9	040-HA-0050
112	2	PLATE,1-1/2" X 32 3/4" X 12"	G40.2144W	32 3/4	040-HA-0150
113	4	PLATE,1-1/2" X 9 1/2" X 4 1/2"	G40.2144W	9 1/2	040-HA-0150
114	1	PLATE,3/16" X 28" X 23 1/2"	G40.2144W	28	040-HA-0018
115	1	PLATE,3/16" X 29 1/2" X 28"	G40.2144W	29 1/2	040-HA-0018
116	1	PLATE,3/16" X 39" X 28"	G40.2144W	39	040-HA-0018
117	1	PLATE,3/16" X 56 3/4" X 12"	G40.2144W	56 3/4	040-HA-0018
118	1	PLATE,3/16" X 89" X 51 1/2"	G40.2144W	89	040-HA-0018
119	1	PLATE,3/16" X 89" X 57 1/4"	G40.2144W	89	040-HA-0018
120	1	PLATE,3/16" X 92" X 27"	G40.2144W	92	040-HA-0018
121	4	PLATE,3/8" X 23 1/4" X 7 1/4"	G40.2144W	23 1/4	040-HA-0037
122	1	PLATE,3/8" X 35 1/2" X 20"	G40.2144W	35 1/2	040-HA-0037
123	1	PLATE,3/8" X 38 1/4" X 20"	G40.2144W	38 1/4	040-HA-0037
124	1	PLATE,3/8" X 38 1/4" X 29"	G40.2144W	38 1/4	040-HA-0037
125	1	PLATE,3/8" X 6" X 3"	G40.2144W	6	040-HA-0037
126	1	TUBING,12"x12",1/4" THK	G40.21350W	38 7/16	020-HA-1200-1200-0025
127	5	TUBING,12"x8",3/8" THK	G40.21350W	8	020-HA-1200-0800-0037
128	4	TUBING,12"x8",3/8" THK	G40.21350W	342	020-HA-1200-0800-0037
129	2	TUBING,2"x2",1/4" THK	G40.21350W	25	020-HA-0200-0200-0025
130	3	TUBING,2"x2",1/4" THK	G40.21350W	36 9/16	020-HA-0200-0200-0025
131	2	TUBING,2"x2",1/4" THK	G40.21350W	37	020-HA-0200-0200-0025
132	17	TUBING,2"x2",1/4" THK	G40.21350W	42 1/8	020-HA-0200-0200-0025
133	1	TUBING,2"x2",1/4" THK	G40.21350W	58 1/8	020-HA-0200-0200-0025
134	1	WIDE FLANGE,24" X 76#	G40.2150W	27 1/2	034-HA-2400-0760
135	6	WIDE FLANGE,24" X 76#	G40.2150W	36 9/16	034-HA-2400-0760
136	9	WIDE FLANGE,24" X 76#	G40.2150W	93 1/4	034-HA-2400-0760
137	1	WIDE FLANGE,24" X 76#	G40.2150W	100 9/16	034-HA-2400-0760
138	2	WIDE FLANGE,24" X 76#	G40.2150W	383 9/16	034-HA-2400-0760
139	1	WIDE FLANGE,4" X 13#	G40.2150W	31 1/4	034-HA-0400-0130
140	1	WIDE FLANGE,4" X 13#	G40.2150W	41 3/4	034-HA-0400-0130
141	1	WIDE FLANGE,4" X 13#	G40.2150W	61 9/16	034-HA-0400-0130
142	5	WIDE FLANGE,4" X 13#	G40.2150W	93 1/4	034-HA-0400-0130
143	1	WIDE FLANGE,8" X 31#	G40.2150W	36 9/16	034-HA-0800-0310
144	2	PLATE,1/2" X 11 3/4" X 9"	G40.2144W	11 3/4	040-HA-0050
145	2	PLATE,1/2" X 24" X 9"	G40.2144W	24	040-HA-0050
146	3	WIDE FLANGE,12" X 40#	G40.2150W	96	034-HA-1200-0400
147	2	WIDE FLANGE,12" X 40#	G40.2150W	234 1/4	034-HA-1200-0400
148	1	WIDE FLANGE,4" X 13#	G40.2150W	72 5/16	034-HA-0400-0130
149	1	WIDE FLANGE,24" X 76#	G40.2150W	20 9/16	034-HA-2400-0760
150	1	WIDE FLANGE,24" X 76#	G40.2150W	70	034-HA-2400-0760
151	SHOP	CONCRETE: 58 FT3	-	-	NPN
152	SHOP	GRATING: 1 X 3/16"(19-4) 60 FT2 CTS	SA-36	(C.T.S.)	049-19W4-HAP-0018-0100

PIPING BILL OF MATERIAL					
MARK	QTY	DESCRIPTION	SIZE	LENGTH	DB_CODE
153	1	PIPE,1"S/80(XS),SMLS,SA-106-B (2 HALF)	1"	14	600-HPA-0100
154	2	PIPE,1"S/80(XS),SMLS,SA-106-B TBE	1"	6	600-HPA-0100 TBE
155	2	PIPE,2"S/80(XS),SMLS,SA-106-B TBE	2"	27	600-HPA-0200 TBE
156	1	PIPE,6"S/40(STD),SMLS,SA-106-B	6"	63	600-FPA-0600
157	2	ELBOW,1",3000#,90D,NPT,SA-105	1"		146-HRA-0100
158	2	CAP,2",3000#,NPT,SA-105	2"		115-HRA-0200
159	4	COUPLING,1",3000#,NPT,FULL,SA-105	1"		121-HRA-0100
160	5	COUPLING,2",3000#,NPT,FULL,SA-105	2"		121-HRA-0200
161	2	PLUG,1",6000#,NPT,HEX,SA-105	1"		612-LRA-0100
162	4	PLUG,2",6000#,NPT,HEX,SA-105	2"		612-LRA-0200
163	1	FLAT BAR,2" X 1/4" THK	G40.2144W	24	010-HA-0200-0025
164	2	FLAT BAR,2" X 1/4" THK	G40.2144W	29 1/2	010-HA-0200-0025
165	1	PIPE,6"S/40(STD),SMLS,SA-106-B	6"	2	600-FPA-0600

ENGINEER STAMP		TITLE: STRUCTURAL STEEL LAYOUT & DETAILS	
DRAWN BY: GORD HOWE		DATE: MAY 28, 2008	
CHKD. BY: A. DURHAM		SCALE: 3/8" = 1'-0"	
APPR. BY: A. DURHAM		W.O. No: 12211301	
CUST. PO No:		DWG. No: 12211-301	
SHEET No: 1 OF 6		REV: 2	

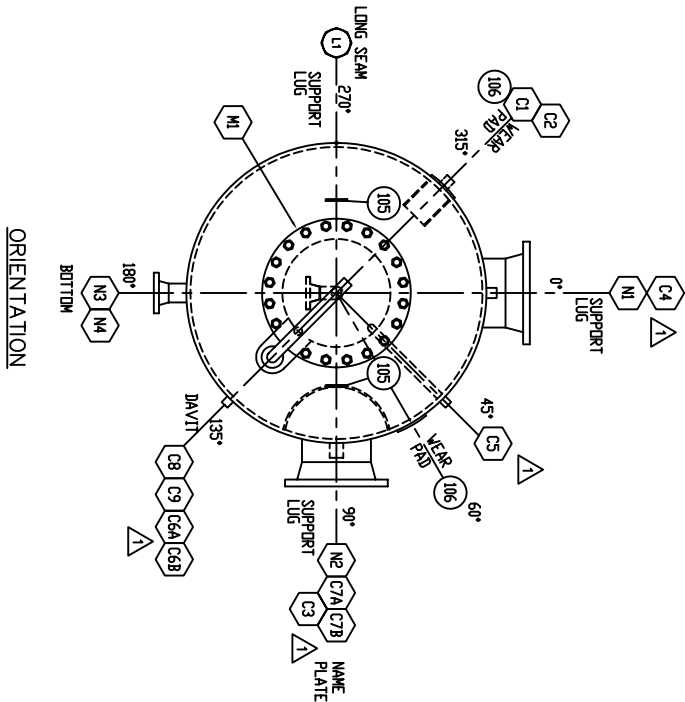
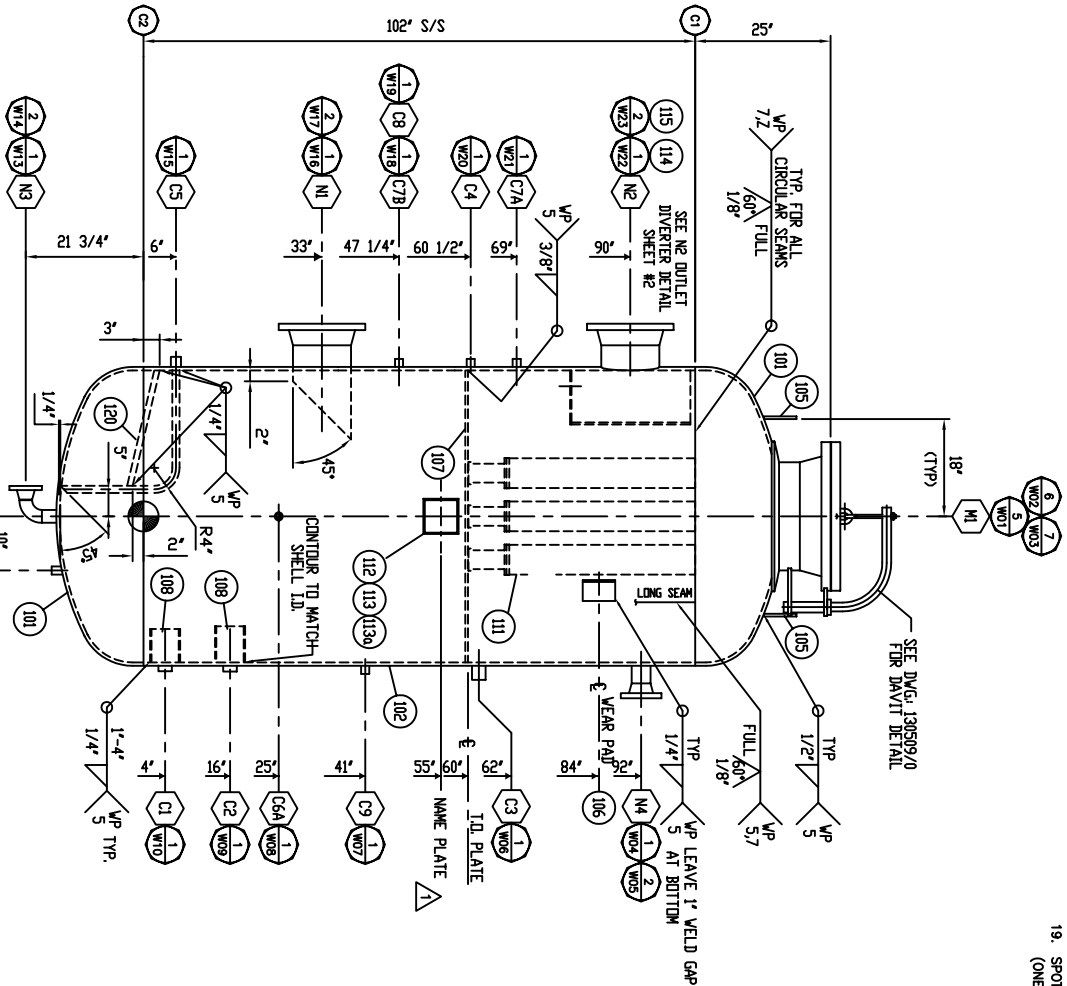
ITEM	DESCRIPTION	QTY	UNIT	PART No.	HEAT NUMBER
101	HEAD: 5/4" I.D. 5/8" THK (9/16" MIN) 2:1 SE W/ 2" S.F.	2	1.00	SS551001	
102	SHELL: 5/8" THK (ROLLED TO 5/4" I.D.) x 102" LG. (0.604" MIN.)	1	1.00	RS5510102	
102a	SHELL: PRE-BLASTING	1	1.00	RS5510102B	
103	PLATE: 4" W. x 12" LG. x 1" THK. (TOP PLATE DRILLED)	3	1.00	PPZ20089	
103a	PLATE: 4" W. x 12" LG. x 1" THK. (BOTTOM PLATE TAPPED)	3	1.00	PPZ20090	
104	PLATE: 3/4" THK 5 7/16" x 12" (GUSSETS)	6	1.00	PPZ20136	
105	PLATE: 6" x 7" x 3/4" NOM. THK. (LUG)	2	1.00	PPZ20137	
106	PLATE: 1/4" THK x 6" (BENT TO SUIT 5/4" ID SHELL)	2	1.00	PPZ20138	
107	PLATE: 5/8" THK x 53 7/8" O.D. (SEE DETAIL)	1	1.00	PPZ20152	
108	PIPE: 5" NOM STD.WT. x 6" LG.	2	6.00	PL054014	
109	ROUND BAR: 1/2" DIA. x 39" LG. (TBE) SEE DETAIL	22	1.00	PPZ20095	
110	NUTS: 1/2" - 13 UNC HEX HEAD	SA 36			
111	ELEMENTS: JPMG-36349-V	SA 194 2H	44	1.00	N0400066
112	NAMEPLATE: ("U" STAMP)	ST STL.	1	1.00	NM05XU96
113	BACKET WEB: 2 1/4" x 6 5/8" x 1/4" THK.	SA-516-70	1	1.00	PPZ20107
113a	NAMEPLATE BRACKET: 7" x 4" x 1/4" THK.	SA-516-70	1	1.00	PPZ20108
114	PIPE: 20" NOM STD.WT. x 22" LG. (CUT IN HALF) (SEE DETAIL)	SA 106B SMLS	1	22.00	PLZ00114
115	PLATE: 1/4" THK 19 1/2" DIA. (C.I.S.)	SA-516-70	1	1.00	PPZ20150
116	PLATE: 3/8" THK 6 5/8" OD x 4" ID	SA-36	22	1.00	PPZ20139
117	PIPE: 4" NOM STD.WT. x 7 1/8" LG.	SA 106B SMLS	22	7.13	PS324014
118	FLAT BAR: 1/4" THK 1 7/2" x 4" LG. (CTS)	SA-36	22	1.00	PPZ20140
119	PIPE: 6" NOM SCH.10S	SMLS SA-312-TP304L	22	1/2"	PPZ20151
120	PLATE: 1/4" THK 1" x 22" LG.	SA-516-70	1	1.00	PPZ20141

GENERAL NOTES:

1.  ALL TAIL DIMENSIONS FROM REFERENCE POINT.
2. WELDING PROCEDURE REGISTRATION NO.: SEE WELD CONVERSION CHART.
3. FLANGE BOLT HOLES TO STRADDLE MAJOR CENTRILINES OF VESSEL, UNLESS OTHERWISE NOTED.
4. ALL FLANGES TO BE ANSI 16.5, ALL FORGED THD & SW FITTINGS PER ANSI B16.11, UNLESS OTHERWISE NOTED.
5. EXTERIOR & INTERIOR OF VESSEL TO BE FREE OF WELD SLAG, SPATTER, GREASE, MOISTURE, ETC.
6. ALL CUT LENGTHS ARE FINISHED LENGTHS, PENDING CUT LENGTHS ARE BASED ON 1/8" (3 mm) WELD GAP.
7. PROJECT NAME PLATE 1" (25 mm) FROM SHELL/INSUL.
8. ALL TACK WELDS TO BE PER WP 1
9. SURFACE PREPARATION: SANDBLAST TO SSPC-SP6.
10. PRIMER: ONE COAT OF PR-1 RED OXIDE
11. FINISH: ONE COAT FIN-1 ENCAVA TAUPÉ (N/A)
12. INSULATION: NONE
13. ALLOWABLE MATERIAL SUBSTITUTION:
SA-333-6 FOR SA-106B; SA-350-LF2 FOR SA-105N;
SA-420-WPL6 FOR SA-234-WPB.
14. VESSEL TOLERANCE FOLLOWS ENG. PROJ. 003, VES
15. MINIMUM THICKNESS VESSEL, TEMPERATURE SHALL BE 30 DEG.F ABOVE MSMT BUT NOT LOWER THAN 35 DEG.F. (N/A, PNEUMATIC TEST)
16. NO FLUX CORE WELDING PROCEDURE ALLOWED.
17. VESSEL, REGISTERED UNDER DMC: R250777A/0
VESSEL CRN:
18. THE ELEMENT SUPPORT PLATE (ITEM NO.107) MUST BE FLAT WITHIN 1/16". IF THE SURFACES HAS HEAVY RUST OR SCALE IT MUST BE CLEANED.
19. SPOT RADIOGRAPHY TO MEET RT-4 REQUIREMENTS.
(ONE SHOT PER HEAD & ONE SHOT LONG SEAM)

SCHEDULE OF OPENINGS														
MARK	SERVICE	DESCRIPTION (END CONNECTION TOWARDS VESSEL)	QTY.	UNIT	PART No.	WLD	WP	WELD A	WELD B	WELD C	O.S. PROL.	I.S. PROL.	I.S. PROF.	HEAT NUMBER
M1	MAINWAY	1 BLIND FLANGE: 20"-150#	1	1.00	FBL20015									
		2 GASKET: 20"-150# 1/8" THK FLEX	1	1.00	GS1201G									
		3 STUDS: 1 1/8" DIA. x 6 1/4" LONG	20	1.00	SC095061Z									
		4 NUTS: 1 1/8" DIA.	40	1.00	NC0900066Z									
		5 FLANGE: 20"-150# RFWN SCH.40 BORE	1	1.00	FW201L21	12	5							
		6 PIPE: 20" NOM SCH.40 x 5" LG.	1	5.00	PL204014	2	5	3/8"	MIN	7/16"	DET	1 1/4"	SFR	
		7 REPAD: 5/8" THK X 25" OD X 20 1/8" ID DISHED TO 53 1/4" ID	1	1.00	PP120134									
N1	GAS INLET	1 FLANGE: 12"-150# RFWN SCH.80 BORE	1	1.00	FW121X21	12	5							
N2	GAS OUTLET	2 PIPE: 12" NOM SCH.80 WT x 19 1/2" LG. SMS SA-106-B	1	19.50	PL128014	1	5	5/8"	3/8"	-	7 7/8"	DET	DET	
		1 FLANGE: 12"-150# RFWN SCH.80 WT BORE	1	1.00	FW121X21	12	5							
N3	DRAIN	2 PIPE: 12" NOM SCH.80 WT x 6" LG. SMS SA-106-B	1	6.00	PL128014	1	5	5/8"	3/8"	-	7 7/8"	1 1/4"	SFR	
		1 FLANGE: 2"-150# RFWN SCH.160 BORE	1	1.00	FW161H21	12	1							
		2 ELBOW: 2" 90 LR BW SCH.160	1	1.00	EL160441	13	1							
		3 PIPE: 2" NOM SCH.160 x 3 3/8" LG. SMS SA-106-B	1	3.38	PS160414	1	5	3/8"	-	-	DET	GR-FLUSH	CONT	
N4	PSV	1 FLANGE: 3"-150# RFWN SCH.160 WT BORE	1	1.00	FW241H21	12	5							
		2 PIPE: 3" NOM SCH.160 WT x 4" LG. SMS SA-106-B	1	4.00	PS240414	1	5	3/8"	MIN	-	5 7/8"	MIN	SFR	
C1	LC	1 HALF COUPLING: 2"-6000# NPT	1	1.00	CH166121	3	5	3/8"	MIN	-	-	MIN	SFR	
C2	LSH	1 HALF COUPLING: 1 1/2"-6000# NPT	1	1.00	CH126121	3	5	3/8"	MIN	-	-	MIN	SFR	
C3	U	1 HALF COUPLING: 2"-6000# NPT	1	1.00	CH166121	11	5	3/8"	-	-	-	DET	DET	
C4	DRAIN	1 FULL COUPLING: 1"-6000# NPT	1	1.00	CF086121	11	5	3/8"	-	-	-	DET	DET	
C5	LV	1 FULL COUPLING: 1"-6000# NPT	1	1.00	CF086121	3	5	3/8"	MIN	-	-	MIN	SFR	
		2 PIPE: 1" NOM XS.WT x 43" LG. (CIS)(BTS) SMS SA-106-B	1	1.00	PP120135									
C6A	LG	1 FULL COUPLING: 3/4"-6000# NPT	1	1.00	CF066121	3	5	3/8"	MIN	-	-	MIN	SFR	
C6B	LG	1 FULL COUPLING: 3/4"-6000# NPT	1	1.00	CF066121	3	5	3/8"	MIN	-	-	MIN	SFR	
C7A	PDI	1 FULL COUPLING: 3/4"-6000# NPT	1	1.00	CF066121	3	5	3/8"	MIN	-	-	MIN	SFR	
C7B	PDI	1 FULL COUPLING: 3/4"-6000# NPT	1	1.00	CF066121	3	5	3/8"	MIN	-	-	MIN	SFR	
C8	PI	1 FULL COUPLING: 3/4"-6000# NPT	1	1.00	CF066121	3	5	3/8"	MIN	-	-	MIN	SFR	
C9	TI	1 FULL COUPLING: 3/4"-6000# NPT	1	1.00	CF066121	3	5	3/8"	MIN	-	-	MIN	SFR	
PLUG		1 PLUG: 2" HEX HEAD NPT.	2	1.00	PG16HX21									
PLUG		1 PLUG: 1 1/2" HEX HEAD NPT.	1	1.00	PG16HX21									
PLUG		1 PLUG: 1" HEX HEAD NPT.	2	1.00	PG16HX21									
PLUG		1 PLUG: 3/4" HEX HEAD NPT.	6	1.00	PG16HX21									

SCHEDULE OF OPENINGS



ANGLE	DIMM. AROUND SHELL
15°	7 1/4"
30°	14 7/16"
45°	21 3/4"
60°	28 15/16"
90°	43 3/8"

[illegible]

PNEUMATIC TEST PRESS.		270 PSIG
IMPACT TEST EXEMPT PER		UCS-66
RADIOGRAPHY: RT-4		
PART	CODE	JE
SHELL (CAT 'A')	UW-11(b)(2)/W-12(b)	SPT 0.85
HEAD (CAT 'B')	UW-11(a)(5)(b)/W-12(d)	SPT 1.00

DESIGN AND FABRICATION TO BE IN ACCORDANCE WITH THE PROVINCE OF ALBERTA REGULATIONS AND A.S.M.E. CODE SEC. VIII DIV. 1 2004 EDITION.			
DESIGN PRESSURE	FV/245 PSIG	-103/1669	KFAG
DESIGN TEMPERATURE	250	DEGF	121
MIN. DESIGN METAL TEMPERATURE	-20F @ 245 PSIG	-293C @ 1669	KFAG
MAX. ALLOWABLE WORKING PRESS.	245	PSIG	1669
LIMITED BY	FLANGE RATING		FLANGE RATING
CORROSION ALLOWANCE	0.0625"		1.6 MM
POST WELD HEAT TREATMENT	NONE		
SERVICE	NATURAL GAS		
VOLUME	164.3	FT3	4.65
WT. EMPTY (SHIPPING WT.)	7250	LBS	3269
WT. FULL OF WATER (TEST WT.)	10400	LBS	7938
OPERATING WT.	10400	LBS	4717
			KGS

ASSEMBLY DETAILS SEE DWG: TPS0036-02

DESIGN AND FABRICATION TO BE IN ACCORDANCE WITH THE
PROVINCE OF ALBERTA REGULATIONS AND
A.S.M.E. CODE SEC. VIII DIV. 1 2004 EDITION.

DESIGN TEMPERATURE	250	DEGF	121	DEGC
MIN. DESIGN METAL TEMPERATURE	-20F		-29C	
MAX. ALLOWABLE WORKING PRESS.	245	PSIG	1689	KPA
FLANGE RATING				
CORROSION ALLOWANCE	0.0625"		FLANGE RATING	
POST WELD HEAT TREATMENT	NONE		1.6	MM
SERVICE	NATURAL GAS			
VOLUME	164.3	FT3	4.65	M3
WT. EMPTY (SHIPPING WT.)	7250	LBS	3289	KGS
WT. FULL OF WATER (TEST WT.)	17500	LBS	7938	KGS
OPERATING WT.	10400	LBS	4717	KGS

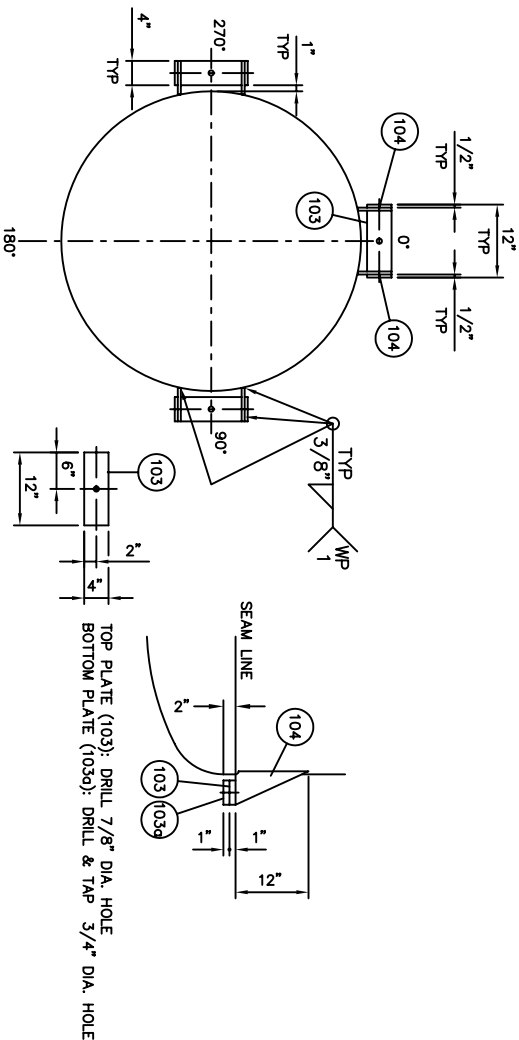
OCT. 13/05	1	JH	CUSTOMER REQUESTS -- ORIENTATIONS	
DATE	REV.	BY	REVISION	APP'D.
ENGINEERING MANAGER or DESIGNEE			-----	-----
REV. 1. APPROVED FOR FABRICATION BY			SIGNATURE	DATE


HENRY
 TECHNOLOGIES

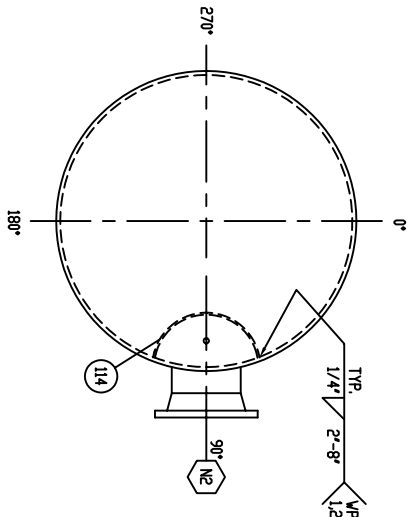
 CHIL-CON PRODUCTS

 P.O. BOX 1355, BRANTFORD, ONTARIO, N3T 5T6
 PHONE: (519) 759-5010
 FAX: (519) 759-6746

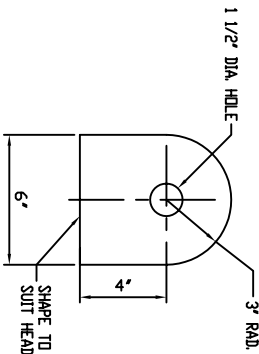
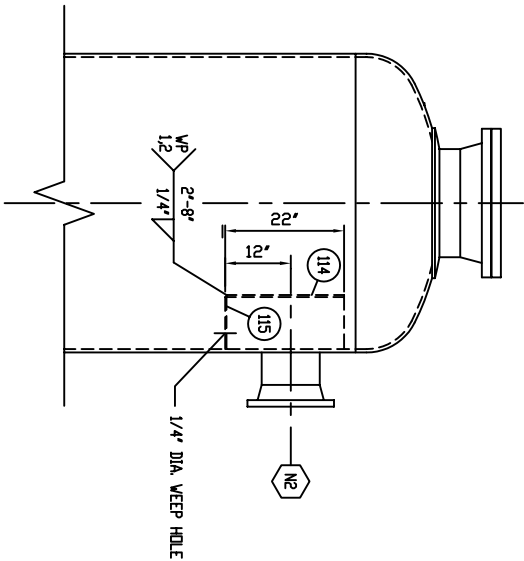
MODEL No.: RX-54132-490 (1200HP, V-1 SUCCTION FILTER)				
CUSTOMER: TOROMONT PROCESS SYSTEMS			DWG. No.: TPS0036-01	
DATE:	BY:	CHK'D:	AP'D:	SCALE:
OCT. 5/05	JH			NTS.
ORDER NUMBER:			REV. No.:	
			1	



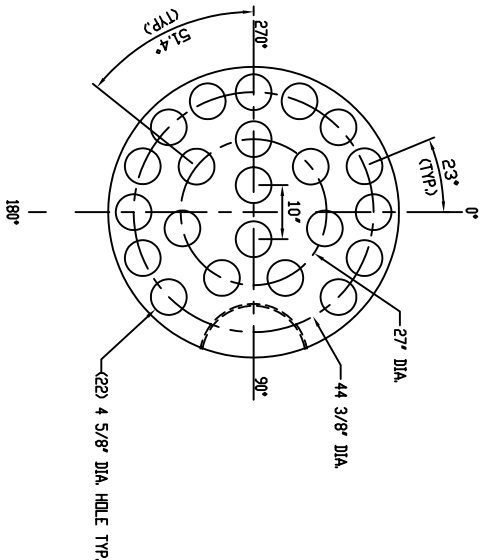
SUPPORT LUG DETAILS



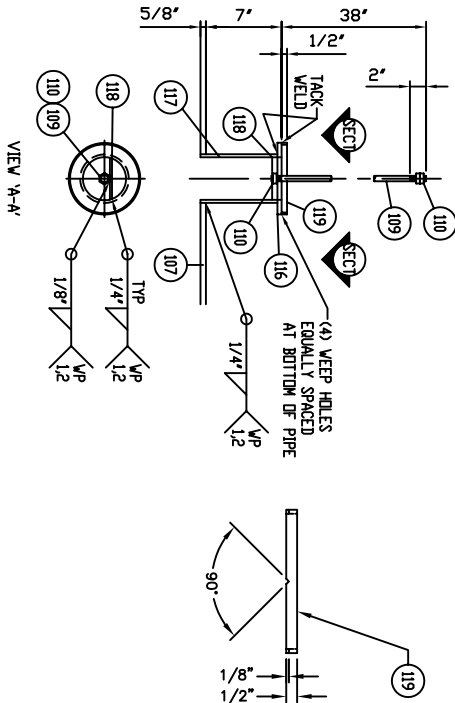
N2 OUTLET DIVERTER DETAIL



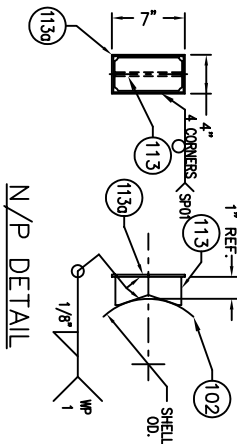
(2) REQUIRED
NTS



(107) PARTITION PLATE DETAILS



FILTER SUPPORT DETAIL
NTS



DATE	REV.	BY	REVISION	APP'D.

ENGINEERING MANAGER or DESIGNER	SIGNATURE	DATE

REV. 0. APPROVED FOR FABRICATION BY	SIGNATURE	DATE

MODEL No.: RX-54132-490 (1200HP, V-1 SUCTION FILTER)	
CUSTOMER: TOROMONT PROCESS SYSTEMS	DWG. No: TPS0036-02
DATE: OCT. 05/05	BY: JH
CHK'D: APP'D:	SCALE: 1/16
ORDER NUMBER:	REV. No.: 0

HENRY TECHNOLOGIES CHIL-CON PRODUCTS P.O. BOX 1385, BRANTFORD, ONTARIO, N3T 5T6 PHONE: (519) 759-3010 FAX: (519) 759-6746	
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