

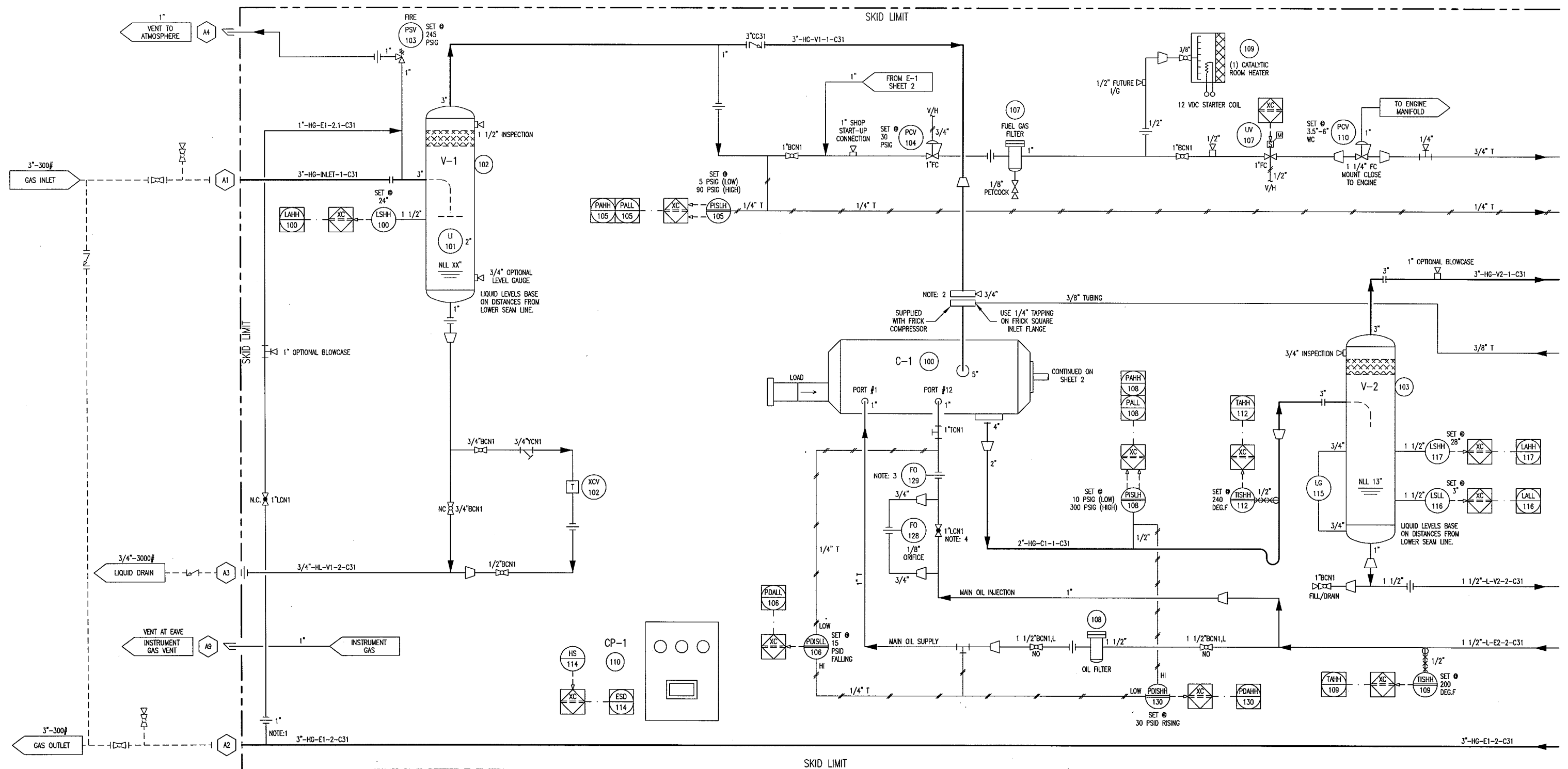
THE INFORMATION CONTAINED HEREIN IS THE CONFIDENTIAL PROPERTY OF TOROMONT PROCESS SYSTEMS AND IS NOT FOR PUBLICATION, AND NO PART THEREOF SHALL BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT AUTHORIZATION FROM TOROMONT PROCESS SYSTEMS.

V-1
SUCTION SCRUBBER
 SIZE: 16" O.D. X 48" S/S
 M.A.W.P.: 400 PSIG @ 250 DEG.F
 M.D.M.T.: -20 DEG.F @ 400 PSIG
 C.A.: 0.0625"
 WEIGHT: 485 LBS.

CP-1
CONTROL PANEL
 TYPE: MURPHYMATIC CONTROL PANEL
 MODEL: TTDJ-IGN-T
 IGNITION POWERED

C-1
GAS COMPRESSOR
 FRICK: MODEL XJF-151M
 INPUT SPEED: 900 TO 1800 RPM
 SUCTION PRESSURE: 5-90 PSIG
 DISCHARGE PRESSURE: 10-300 PSIG
 MAX. DISCHARGE PRESSURE:
 MAX. DISCHARGE TEMPERATURE:
 FLOW: SEE CURVES
 WEIGHT: 1195 LBS

V-2
PRIMARY OIL SEPARATOR
 SIZE: 12 3/4" O.D. X 48" S/S
 M.A.W.P.: 400 PSIG @ 250 DEG.F
 M.D.M.T.: -20 DEG.F @ 400 PSIG
 C.A.: 0.0625"
 WEIGHT: 360 LBS.



SKID GENERAL NOTES:
 - ELECTRICAL CLASSIFICATION: CLASS 1, DIV. 2, GROUP D
 - FIRE AND GAS DETECTION: BY CUSTOMER AS REQUIRED.
 - MINIMUM DESIGN AMBIENT TEMPERATURE: 50 DEG.F
 - MAXIMUM DESIGN AMBIENT TEMPERATURE: 90 DEG.F
 - SITE ELEVATION: 2500 FT.
 - ATMOSPHERIC PRESSURE: 13.4 PSIA
 - COMPRESSOR OIL TYPE: S5-150 (18 USGAL)
 - ENGINE OIL TYPE: ESSO 640, OR EQUAL (14 USGAL)
 - ENGINE GLYCOL CHARGE: 50 / 50 EGLY (22 USGAL)

NOTE: 1
 TAKE CONNECTION FROM THE TOP OF PIPE

NOTE: 2
 INTEGRAL STRAINER SUPPLIED WITH FRICK COMPRESSOR

NOTE: 3
 ORIFICE SUPPLIED WITH COMPRESSOR

NOTE: 4
 ADJUST OIL INJECTION TO CONTROL DISCHARGE TEMPERATURE.

REV.	DESCRIPTION	DATE	BY	APPR.
2	AS BUILT	AUG 19/05	RH	
1	ISSUED FOR CONSTRUCTION	FEB 18/05	CD	GS

PERMIT TO PRACTICE STAMP

ENGINEER STAMP

TOROMONT
TOROMONT PROCESS SYSTEMS

DRAWN BY: C. DAVIDSON
 DATE: FEB 18/05

CHKD. BY: G. SCHUSTER
 SCALE: N/A

APPR. BY: G. SCHUSTER
 W.O. No.: 11715101

CUST. PO No:

TITLE: P & I FLOW DIAGRAM

FOR: TOROMONT PROCESS SYSTEMS
 90 HP WELLHEAD
 BOOSTER UNIT
 (FRICK 151 M COMPRESSOR)

DWG. No: 11715-101
 SHEET No: 1 OF 3
 REV: 2

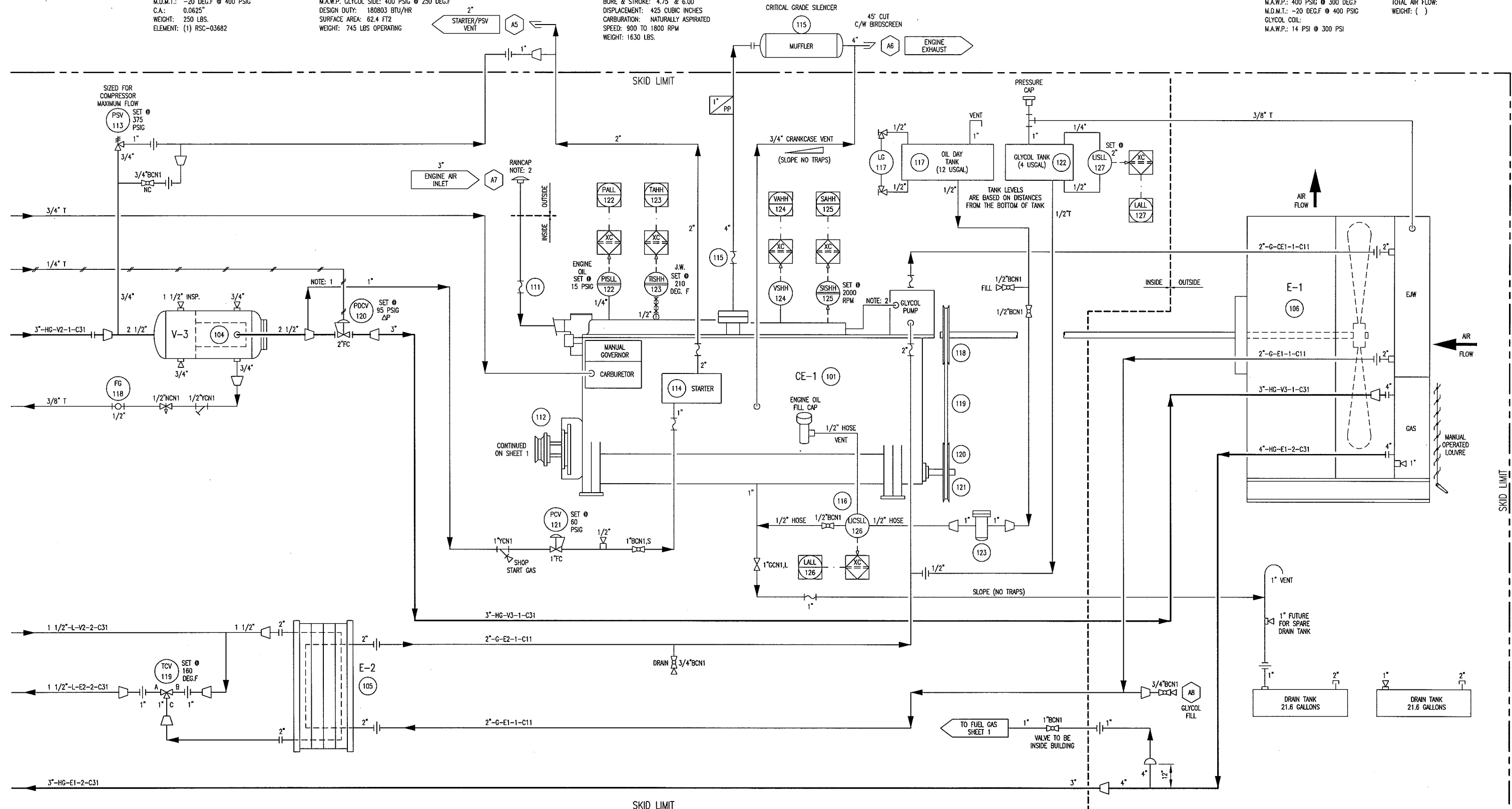
THE INFORMATION CONTAINED HEREIN IS THE CONFIDENTIAL PROPERTY OF TOROMONT PROCESS SYSTEMS AND IS NOT FOR PUBLICATION AND NO PART THEREOF SHALL BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT AUTHORIZATION FROM TOROMONT PROCESS SYSTEMS

V-3
SECONDARY OIL SEPARATOR
 CHIL-COM: MODEL COSM-070-T
 SIZE: 12 3/4" O.D. X 36 3/8" O.A.L.
 M.A.W.P.: 400 PSIG @ 400 DEG.F
 M.D.M.T.: -20 DEG.F @ 400 PSIG
 C.A.: 0.0625"
 WEIGHT: 250 LBS.
 ELEMENT: (1) RSC-03682

E-2
OIL COOLER
 MODEL: VEX VX20-FM1-75
 PLATES: 31
 M.A.W.P. OIL SIDE: 400 PSIG @ 250 DEG.F
 M.A.W.P. GLYCOL SIDE: 400 PSIG @ 250 DEG.F
 DESIGN DUTY: 180803 BTU/HR
 SURFACE AREA: 62.4 FT²
 WEIGHT: 745 LBS OPERATING

CE-1
COMPRESSOR ENGINE
 CATERPILLAR MODEL 3304NA
 90 HP @ 1800 RPM
 NO. OF CYLINDERS: 4
 BORE & STROKE: 4.75" & 6.00"
 DISPLACEMENT: 425 CUBIC INCHES
 CARBURATION: NATURALLY ASPIRATED
 SPEED: 900 TO 1800 RPM
 WEIGHT: 1630 LBS.

E-1
GLYCOL COOLER/AFTERCOOLER
 TYPE: ACE
 MODEL: J15B-51-6
 AFTERCOOLER COIL:
 M.A.W.P.: 400 PSIG @ 300 DEG.F
 M.D.M.T.: -20 DEG.F @ 400 PSIG
 GLYCOL COIL:
 M.A.W.P.: 14 PSI @ 300 PSI
 FAN: (9) BLADES 42"
 FAN SPEED: 1154 RPM
 FAN HP:
 TOTAL AIR FLOW:
 WEIGHT: ()



NOTE: 1
 START GAS CONNECTION FROM TOP OF PIPE
 NOTE: 2
 SUPPLIED WITH ENGINE

REV.	DESCRIPTION	DATE	BY	APPR.
2	AS BUILT	AUG 19/05	RH	
1	ISSUED FOR CONSTRUCTION	FEB 18/05	CD	GS

PERMIT TO PRACTICE STAMP
 ENGINEER STAMP

		TITLE: P & I FLOW DIAGRAM	
DRAWN BY: C. DAVIDSON	DATE: FEB 18/05	FOR: TOROMONT PROCESS SYSTEMS 90 HP WELLHEAD BOOSTER UNIT (FRICK 151 M COMPRESSOR)	
CHKD. BY: G. SCHUSTER	SCALE: N/A		
APPR. BY: G. SCHUSTER	W.O. No.: 11715101		
CUST. PO No.:	DWG. No.: 11715-101	SHEET No.: 2 OF 3	REV: 2

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

LINE IDENTIFICATION

A-B-CD-E-FGH-I,I,I

- A :** NOMINAL LINE SIZE IN INCHES
- B :** FLUID
 CW COOLING WATER I/A INSTR. AIR SUPPLY
 F FUEL GAS I/G INSTR. GAS SUPPLY
 G GLYCOL L LUBE OIL (COMPRESSOR)
 HG HYDROCARBON GAS V PRODUCED/PROCESS WATER
 HL HYDROCARBON LIQUID
- C :** EQUIPMENT TYPE
 B BLOWER/FAN P PUMP
 C COMPRESSOR S OIL SKIMMER
 E EXCHANGER T TANK
 F FILTER V PRESSURE VESSEL
 H HEATER
- MODIFIER**
 E ENGINE
 M MOTOR

- D :** EQUIPMENT NUMBER: 1 TO 999 SEQUENTIAL NUMBERS
- E :** LINE NUMBER: 1 TO 9 SEQUENTIAL NUMBERS FROM EQUIPMENT

- FGH :** PIPING SPECIFICATION
- F :** MATERIAL GROUP
 C CARBON STEEL
 L LOW TEMP. CARBON STEEL
 S STAINLESS STEEL
- G :** ANSI 16.5 FLANGE CLASS
 1 150# 9 900#
 3 300# 15 1500#
 6 600# 25 2500#
- H :** LINE MATERIAL SPECIFICATION REFERENCE: 1 TO 9 SEQUENTIAL NUMBERS

- III :** MODIFIER / GENERAL
- H PLUS THICKNESS IN INCHES (HOT INSULATION)
 C PLUS THICKNESS IN INCHES (COLD INSULATION)
 PP PLUS THICKNESS IN INCHES (PERSONAL PROTECTION)
 HT PLUS THICKNESS IN INCHES (HEAT TRACING)
 ST STEAM TRACING
 GT GLYCOL TRACING
 ET ELECTRICAL TRACING
- EXAMPLE:** 3"-HG-V1-2-C11-HT1", ET
 3" - LINE SIZE
 HG - HYDROCARBON GAS
 V1 - VESSEL
 2 - SECOND LINE FROM VESSEL
 C11 - CARBON STEEL LINE
 1 150# ANSI FLANGE RATING
 1 LINE MATERIAL SPECIFICATION REFERENCE
 HT1" - HEAT TRACING INSULATION 1" THICK
 ET - ELECTRIC TRACING

VALVE IDENTIFICATION

A"BCDE,F

- A :** NOMINAL VALVE SIZE IN INCHES
- B :** TYPE
 A ANGLE GLOBE N NEEDLE
 B BALL P PLUG
 C CHECK S START-UP STRAINER
 G GATE T TEE STRAINER
 L GLOBE Y Y-STRAINER
 M MANIFOLD U BUTTERFLY
- C :** BODY MATERIAL
 B BRONZE L LOW TEMP. CARBON STEEL
 C CARBON STEEL S STAINLESS STEEL
 I CAST IRON
- D :** END CONNECTIONS
 1 FLANGED 150# F NPT BY FLANGE (MANIFOLD)
 3 FLANGED 300# N NPT (THREADED)
 6 FLANGED 600# M NPT MALE BY NPT FEMALE
 9 FLANGED 900# S SW (SOCKETWELD)
 B BUTT WELD T TUBE (SWAGELock)
 C SW BY NPT
- E :** IDENTIFIER - NUMBER USED TO SPECIFY VALVE REFER TO VALVE DATA SHEETS
- 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

EXAMPLE: 6"GC11,C
 6" VALVE SIZE 1 150#
 G GATE 1 API-600
 C CARBON STEEL C CHAIN OPERATOR

CONTROL VALVES

- POSITIONER DIAPHRAGM CONTROL VALVE MOTOR ACTUATOR
- OUTLET PRESSURE REGULATOR (SELF-CONTAINED) HYDRAULIC / PNEUMATIC PISTON OPERATED
- INLET PRESSURE REGULATOR (SELF-CONTAINED) VALVE W/ BLEED
- PRESSURE DIFFERENTIAL CONTROL VALVE (SELF-CONTAINED) VALVE W/ PLUG
- TWO-WAY SOLENOID VALVE PRESSURE SAFETY/RELIEF VALVE
- THREE-WAY SOLENOID VALVE DESIGNATES ORIFICE LETTER (SIZE)

MISCELLANEOUS

- FLEXIBLE CONNECTION CONTINUOUS LIQUID DRAINER OR STEAM TRAP
- SPECTACLE BLIND (LINE OPEN) SKID TIE-POINTS
- SPECTACLE BLIND (LINE CLOSED) OPEN DRAIN
- FLOW GLASS
- RUPTURE DISC FOR PRESSURE RELIEF INSULATION - (C) COLD (H) HOT (HT) HEAT TRACING (PP) PERSONAL PROTECTION
- RUPTURE DISC FOR VACUUM RELIEF ELECTRIC HEAT TRACE
- VORTEX BREAKER STEAM OR GLYCOL HEAT TRACE
- DIAPHRAM SEAL

LINE CODE

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

VALVES

- ANGLE GLOBE VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- GATE VALVE
- GLOBE VALVE
- NEEDLE VALVE
- PLUG VALVE
- 3-WAY VALVE
- 4-WAY VALVE
- START-UP STRAINER
- TEE STRAINER
- Y-STRAINER

VALVE CONNECTIONS

- THREADED
- WELDED (BUTT OR SOCKET)
- THREADED BY WELDED
- FLANGED

INSTRUMENTS

- THERMOWELL (THREADED)
- THERMOWELL (WELDED)
- 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
- PILOT LIGHT * COLOUR - (A) AMBER (G) GREEN (R) RED (B) BLUE (O) ORANGE (W) WHITE
- RELAY OR CONVERTER * FOR INPUT/OUTPUT SEQUENCES DESIGNATION: SIGNAL:
 E VOLTAGE
 H HYDRAULIC
 I CURRENT (ELECTRICAL)
 O ELECTROMAGNETIC OR SONIC
 P PNEUMATIC
 R RESISTANCE (ELECTRICAL)
- PROGRAMMABLE LOGIC CONTROLLER (PLC) XC REPRESENTS GENERAL LOGIC
 X = PLC NUMBER
 Y = PLC RACK NUMBER
- THE ABOVE IDENTIFICATION NUMBER WILL BE USED TO REFERENCE THE CONTROL PANELS.
- INTERLOCK
- ELECTRICAL (HARD WIRE) INTERLOCK

INSTRUMENT IDENTIFICATION GENERAL REFERENCE (ISA - S5.1)

	FIRST LETTER	SUCCEEDING LETTERS	PRIMARY ELEMENT	INDICATOR	RECORDER	CONTROLLER			TRANS-MITTER	CONTROL		CONTROL VALVE OR REGULATOR	SELF-ACTIVATED VALVE	RELAY OR CONVERTER
						BLIND	INDICATING	RECORDING		SWITCH	ALARM			
A	ANALYSIS	ALARM	AE	AI	AR	AC	AIC	ARC	AT	AS()	AA()	AV		AY
B	BURNER FLAME	USER'S CHOICE	BE	BI	BR	BC			BT	BS()	BA()	BV		BY
C	CONDUCTIVITY	CONTROL (CLOSE)	CE	CI	CR	CC	CIC	CRC	CT	CS()	CA()	CV		CY
D	DENSITY OR MASS (DIFFERENTIAL)		DE	DI	DR	DC	DIC	DRC	DT	DS()	DA()	DV		DY
E	VOLTAGE	PRIMARY ELEMENT	EE	EI	ER	EC	EIC	ERC	ET	ES()	EA()	EV		EY
F	FLOW (RATIO OR FRACTION)	SHUTDOWN FIRST OUT	FE	FI	FR	FC	FIC	FRC	FT	FS()	FA()	FV	FCV	FY
G	GAUGING	GLASS	GE	GI	GR	GC	GIC	GRC	GT	GS()	GA()	GV		GY
H	HAND	(HIGH)				HC	HIC	HRC	HT	HS()		HV	HCV	HY
I	CURRENT	INDICATE	IE	II	IR	IC	IIC	IRC	IT	IS()	IA()			IY
J	POWER (SCAN)		JE	JI	JR	JC	JIC	JRC	JT	JS()	JA()			JY
K	TIME	CONTROL STATION				KC	KIC	KRC	KT	KS()	KA()			KY
L	LEVEL	LIGHT (LOW)	LE	LI	LR	LC	LIC	LRC	LT	LS()	LA()	LV	LCV	LY
M	MOISTURE, HUMIDITY	(MIDDLE OR INTERMEDIATE)	ME	MI	MR	MC	MIC	MRC	MT	MS()	MA()	MV		MY
N	USER'S CHOICE													
O	POINT	ORIFICE (OPEN)												
P	PRESSURE OR VACUUM	POINT	PE	PI	PR	PC	PIC	PRC	PT	PS()	PA()	PV	PCV	PY
Q	QUANTITY OR EVENT (INTEGRATE/TOTALIZE)			QI	QR	QC	QIC	QRC	QT	QS()	QA()	QV		QY
R	RADIOACTIVITY	RECORD OR PRINT	RE	RI	RR	RC	RIC	RRC	RT	RS()	RA()			RY
S	SPEED OR FREQUENCY	SWITCH		SI	SR	SC	SIC	SRC	ST	SS()	SA()			SY
T	TEMPERATURE	TRANSMIT	TE	TI	TR	TC	TIC	TRC	TT	TS()	TA()	TV	TCV	TY
U	MULTI-VARIABLE	MULTIFUNCTION		UI	UR	UC	UIC	URC				UV		UY
V	VIBRATION	VALVE OR DAMPER	VE	VI	VR	VC	VIC	VRC	VT	VS()	VA()	VW		VY
W	WEIGHT OR FORCE	WELL	WE	WI	WR	WC	WIC	WRC	WT	WS()	WA()	WV		WY
X	UNCLASSIFIED	UNCLASSIFIED (DIAGNOSTIC)	XE	XI	XR	XC	XIC	XRC	XT	XS()	XA()	XV		XY
Y	USER'S CHOICE	RELAY OR COMPUTE												YY
Z	POSITION	DRIVE OR ACTUATE	ZE	ZI	ZR	ZC	ZIC	ZRC	ZT	ZS()	ZA()			ZY

- (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

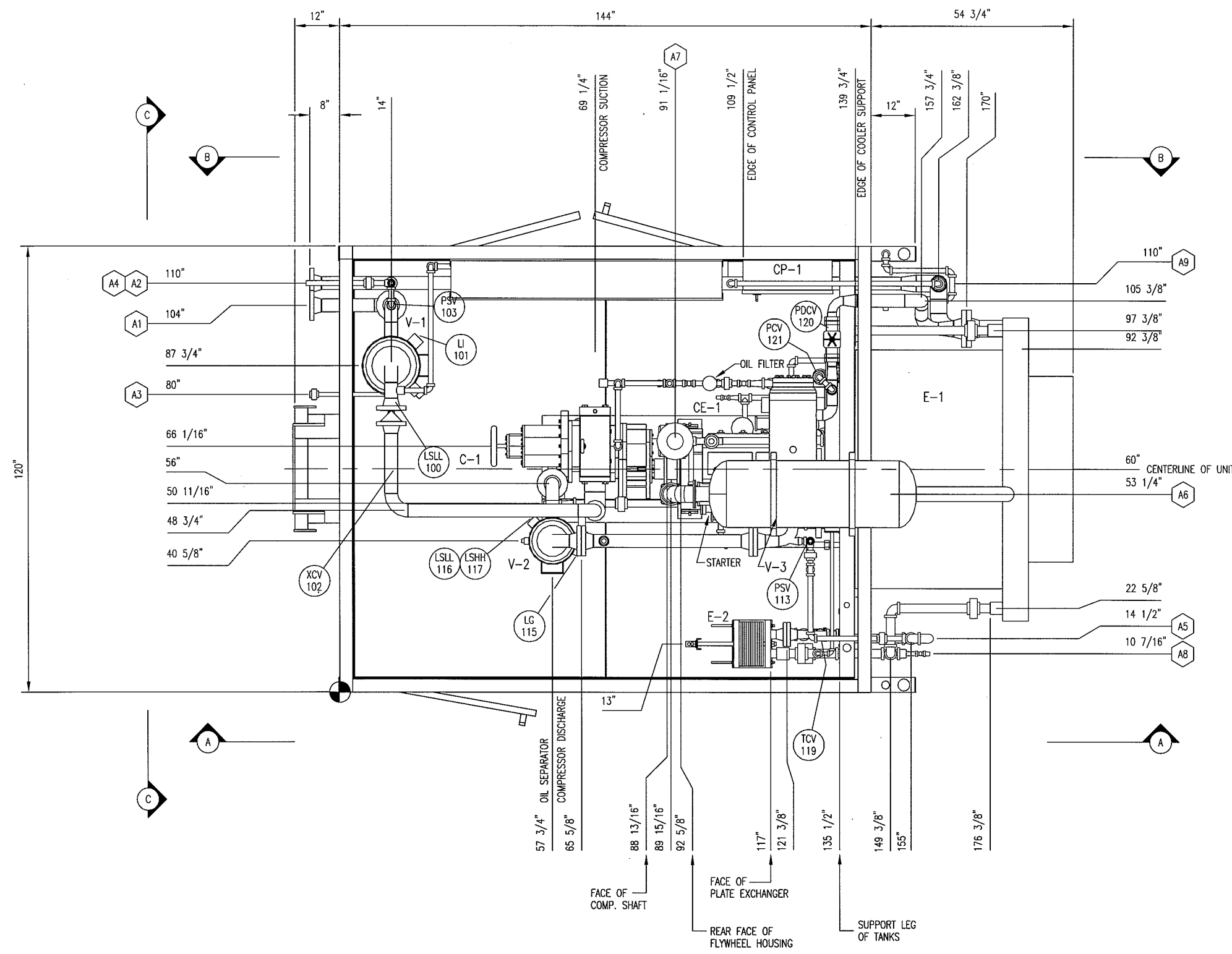
- AOUT AUTOMATIC OUTPUT MAWP MAXIMUM ALLOWABLE WORKING PRESSURE
 CA CORROSION ALLOWANCE MDMT MINIMUM DESIGN METAL TEMPERATURE
 CHO CHAIN OPERATED MIN MINIMUM
 CUST CUSTOMER MCC MOTOR CONTROL CENTER
 DIR DIRECT ACTING MOUT MANUAL OUTPUT
 DB DEADBAND MS MOTOR STARTER
 Δ DELTA (DIFFERENTIAL) NC NORMALLY CLOSED
 ESD EMERGENCY SHUTDOWN NLL NORMAL LIQUID LEVEL
 FC FAIL CLOSED NO NORMALLY OPEN
 FO FAIL OPEN MMI MAN / MACHINE INTERFACE
 FLP FAIL LAST POSITION PB PUSH BUTTON
 GAIN GAIN PL PILOT LIGHT
 HI HIGH PLC PROGRAMMABLE LOGIC CONTROLLER
 HS HAND SWITCH REV REVERSE ACTING
 HTR HEATER RST RESET (INTEGRAL)
 I/A INSTRUMENT AIR SUPPLY SCR SILICON CONTROLLED RECTIFIER
 I/G INSTRUMENT GAS SUPPLY S/F SEAM TO FACE OF FLANGE
 I/O INPUT / OUTPUT SP SETPOINT
 LB/HR POUNDS PER HOUR SPC CALCULATED SETPOINT
 FT3/DAY CUBIC FEET PER DAY SS SELECTOR SWITCH
 FT3/HR CUBIC FEET PER HOUR S/S SEAM TO SEAM
 FT3/MIN CUBIC FEET PER MINUTE T/T TANGENT TO TANGENT
 LC LOCKED CLOSED TS/TS TUBESHEET TO TUBESHEET
 LO LOCKED OPEN T/L TUBE LENGTH
 MAX MAXIMUM V/H VENT HEADER

GENERAL NOTES

- TUBING TO BE 304SS, SEAMLESS, 0.035" WALL THICKNESS, CADMIUM PLATED CARBON STEEL FITTINGS WITH STAINLESS STEEL FERRULES.
- ALL TEMPERATURE INSTRUMENTS TO BE PROVIDED WITH A THERMOWELL.

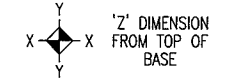
		TITLE: P & I FLOW DIAGRAM LEGEND	
DRAWN BY: C. DAVIDSON	DATE: FEB 18/05	FOR: TOROMONT PROCESS SYSTEMS 90 HP WELLHEAD BOOSTER UNIT (FRICK 151 M COMPRESSOR)	
CHKD. BY: G. SCHUSTER	SCALE: N/A	APPR. BY: G. SCHUSTER	
W.O. No.: 11715101	W.O. No.: 11715101	DWG. No.: 11715-101	
REV.	DESCRIPTION	DATE	BY APPR.
2	AS BUILT	AUG 19/05	RH
1	ISSUED FOR CONSTRUCTION	FEB 18/05	CD GS
PERMIT TO PRACTICE STAMP		ENGINEER STAMP	
SHEET No.: 3 OF 3		REV: 2	

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



NOZZLE SCHEDULE				
MARK	SERVICE	SIZE	RATING	TYPE
A1	GAS INLET	3"	300#	RFWN
A2	GAS OUTLET	3"	300#	RFWN
A3	LIQUID DRAIN	3/4"	3000#	NPT
A4	VENT TO ATMOSPHERE	1"	-	STUB
A5	STARTER/PSV VENT	2"	-	STUB
A6	ENGINE EXHAUST	4"	-	STUB
A7	ENGINE AIR INLET	3"	-	STUB
A8	GLYCOL FILL	3/4"	2000#	NPT
A9	INSTRUMENT GAS VENT	1"	-	STUB

- GENERAL NOTES:**
- ALL TAIL DIMENSIONS FROM REFERENCE POINT.
 - SHIPPING LENGTH: 210"
SHIPPING WIDTH: 126"
SHIPPING HEIGHT: 130"
 - SHIPPING WEIGHT: 17800 LBS
 - OPERATING WEIGHT: 18000 LBS
 - OVERALL SKID DEPTH: 8 3/16"
 - 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).
 - CENTER OF GRAVITY:
'X' FROM REFERENCE POINT: 96 3/8"
'Y' FROM REFERENCE POINT: 61 1/8"
'Z' FROM REFERENCE POINT: 28 1/2"



REV.	DESCRIPTION	DATE	BY	APPR.
2	AS BUILT	AUG 19/05	RH	
1	ISSUED FOR CONSTRUCTION	FEB 18/05	CD	GS

PERMIT TO PRACTICE STAMP
ENGINEER STAMP

TOROMONT
TOROMONT PROCESS SYSTEMS

DRAWN BY: C. DAVIDSON
CHKD. BY: G. SCHUSTER
APPR. BY: G. SCHUSTER

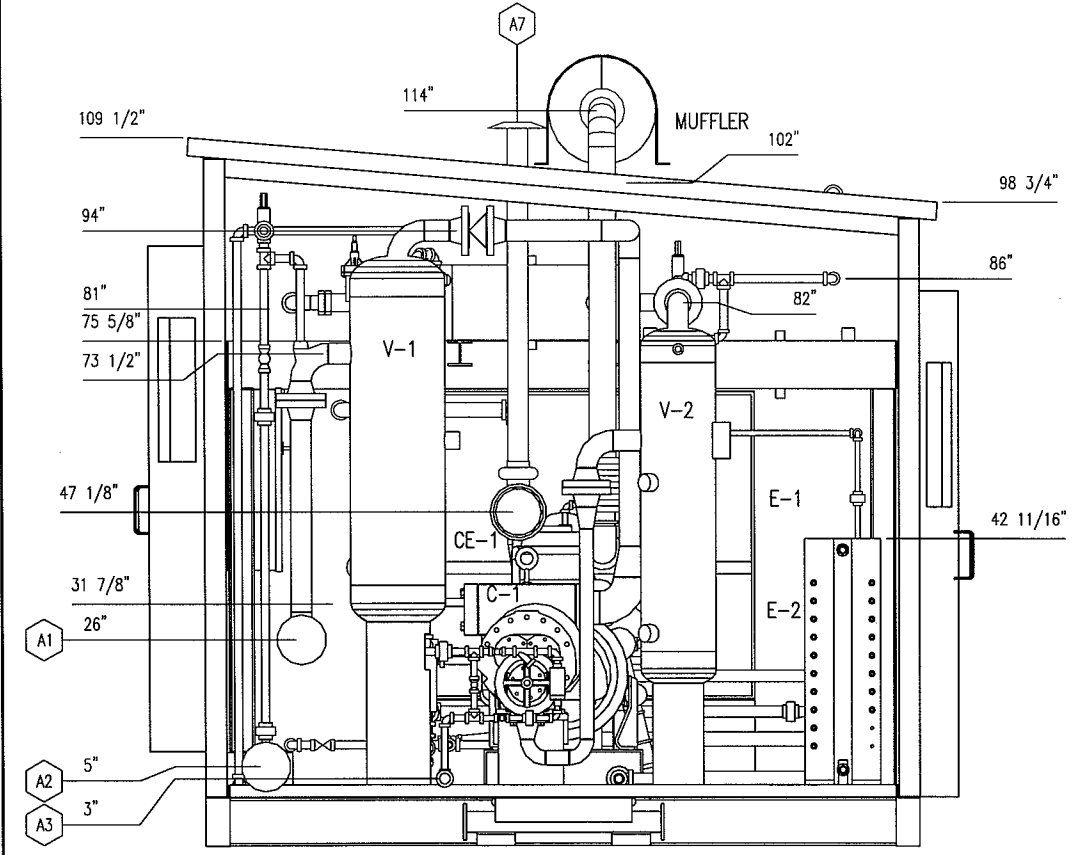
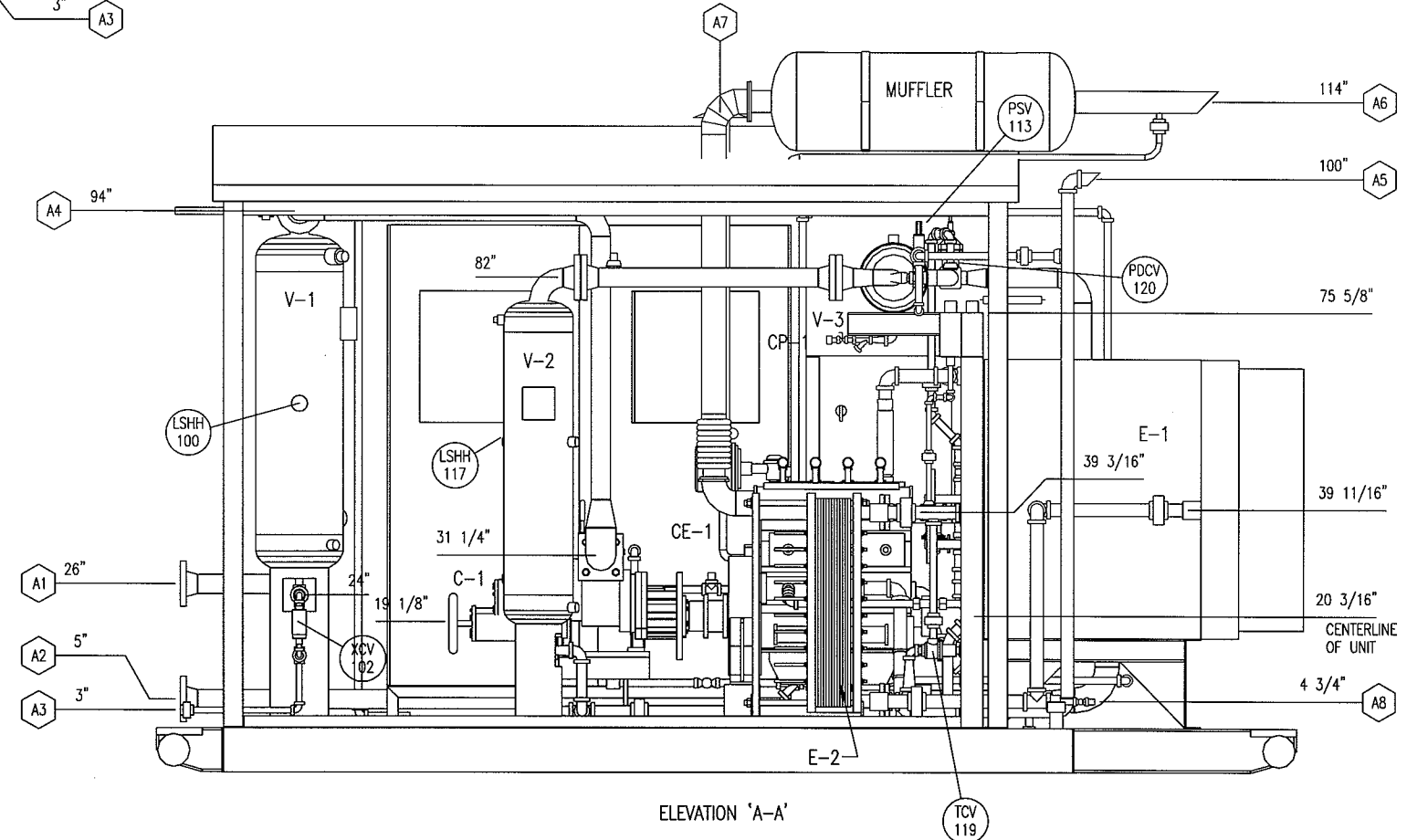
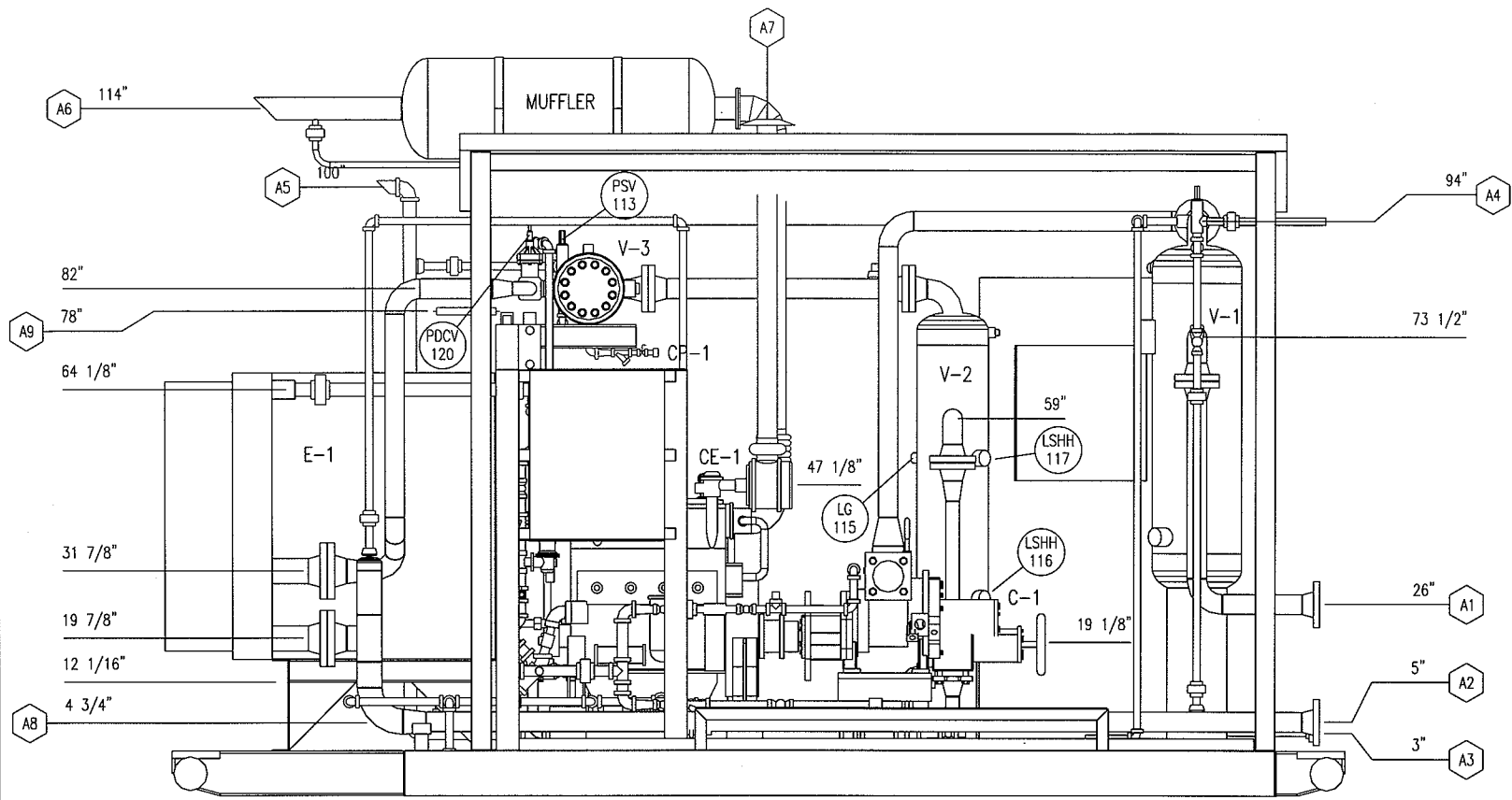
DATE: FEB 18/05
SCALE: 3/4" = 1'-0"
W.C. No: 11715201

TITLE: GENERAL ARRANGEMENT

FOR: TOROMONT PROCESS SYSTEMS
90 HP WELLHEAD BOOSTER UNIT
FRICK XJF 151M COMPRESSOR

CUST. PO No: 11715-201
DWG. No: 11715-201
SHEET No: 1 OF 3
REV: 2

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



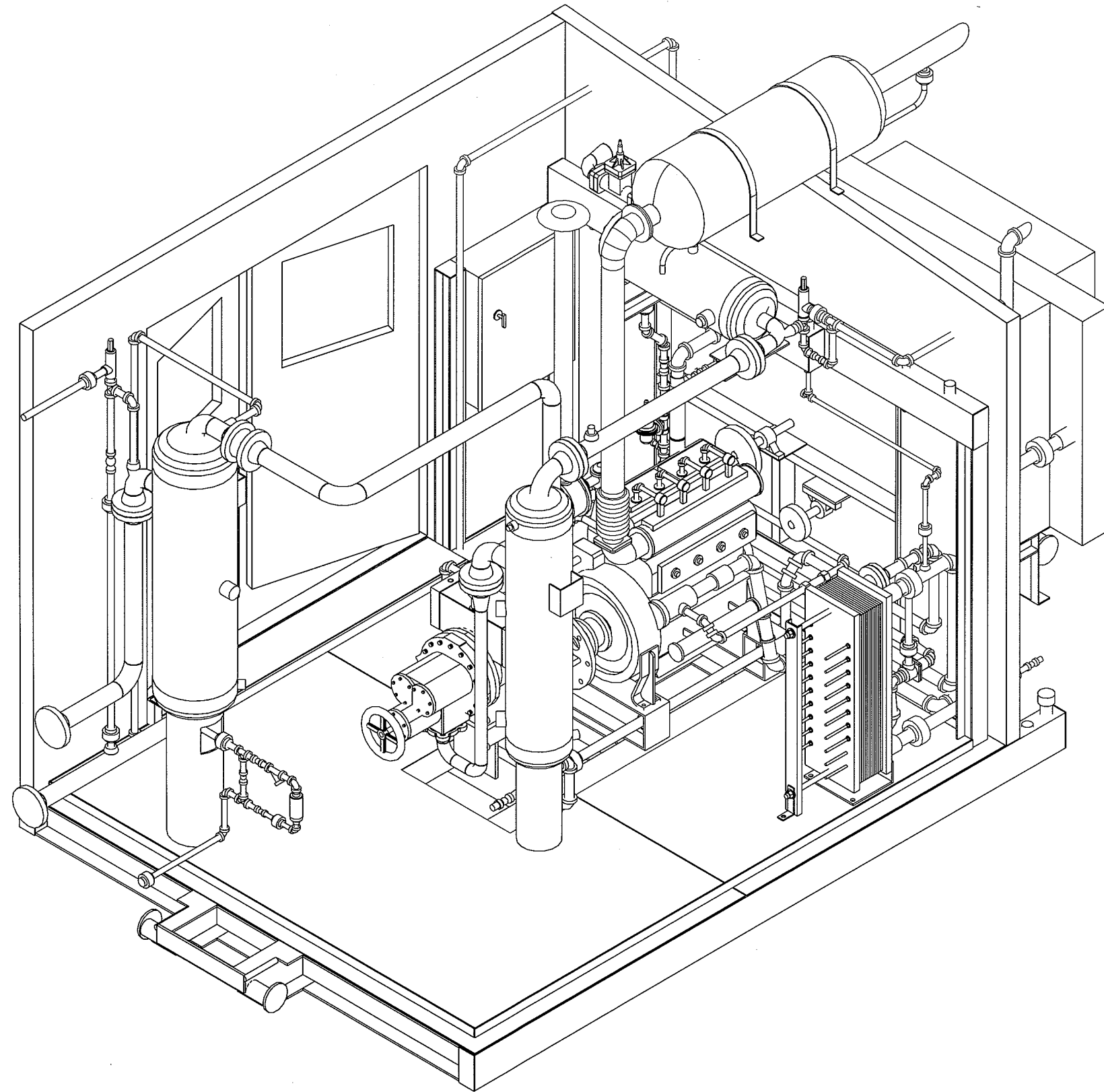
REV.	DESCRIPTION	DATE	BY	APPR.
2	AS BUILT	AUG 19/05	RH	
1	ISSUED FOR CONSTRUCTION	FEB 18/05	CD	GS

PERMIT TO PRACTICE STAMP

ENGINEER STAMP

		TITLE: ELEVATIONS	
DRAWN BY: C. DAVIDSON	DATE: FEB 18/05	FOR: TOROMONT PROCESS SYSTEMS 90 HP WELLHEAD BOOSTER UNIT FRICK XJF 151M COMPRESSOR	
CHKD. BY: G. SCHUSTER	SCALE: 3/4" = 1'-0"		
APPR. BY: G. SCHUSTER	W.O. No.: 11715201		
CUST. PO No.:	DWG. No.: 11715-201	SHEET No.: 2 OF 3	REV.: 2


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



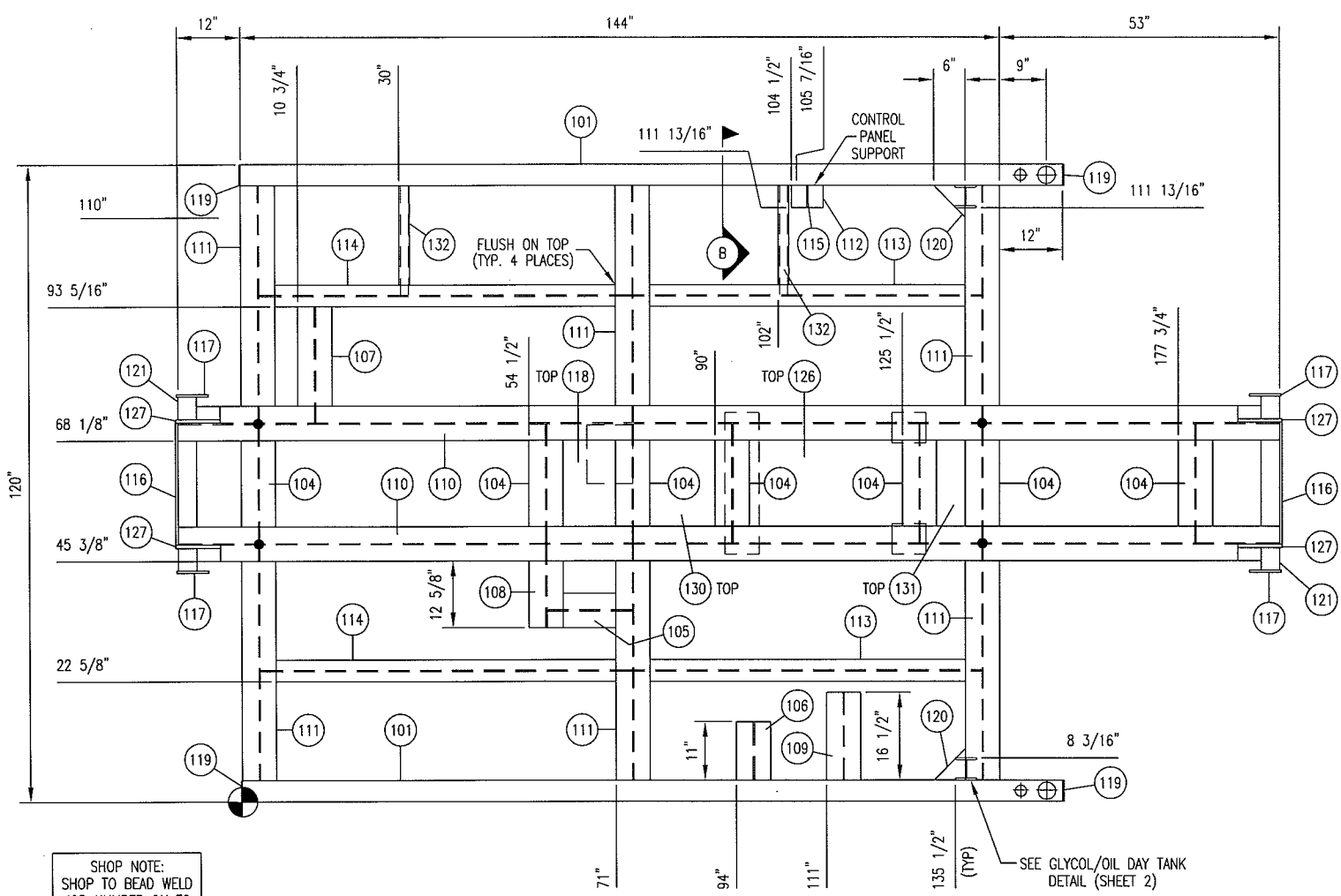
REV.	DESCRIPTION	DATE	BY	APPR.
2	AS BUILT	AUG 19/05	RH	
1	ISSUED FOR CONSTRUCTION	FEB 18/05	CD	GS

PERMIT TO PRACTICE STAMP

ENGINEER STAMP

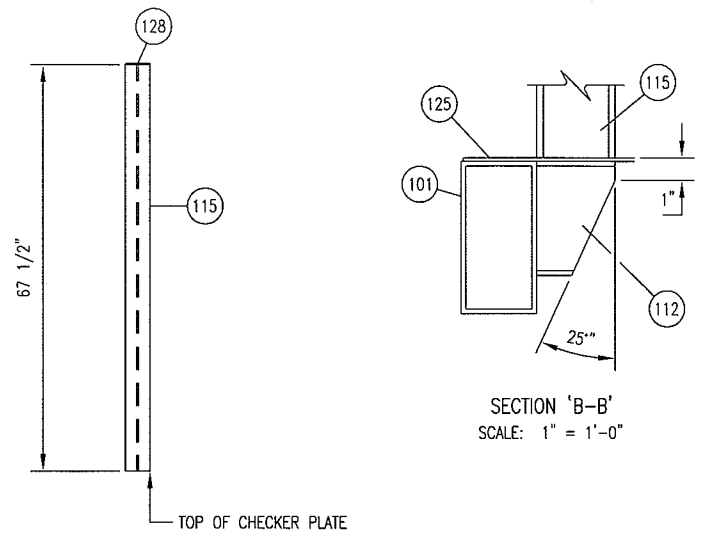
		TITLE: 3D MODEL	
DRAWN BY: C. DAVIDSON	DATE: FEB 18/05	FOR: TOROMONT PROCESS SYSTEMS 90 HP WELLHEAD BOOSTER UNIT FRICK XJF 151M COMPRESSOR	
CHKD. BY: G. SCHUSTER	SCALE: N/A		
APPR. BY: G. SCHUSTER	W.O. No: 11715201		
CUST. PO No:	DWG. No: 11715-201	SHEET No: 3 OF 3	REV: 2

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

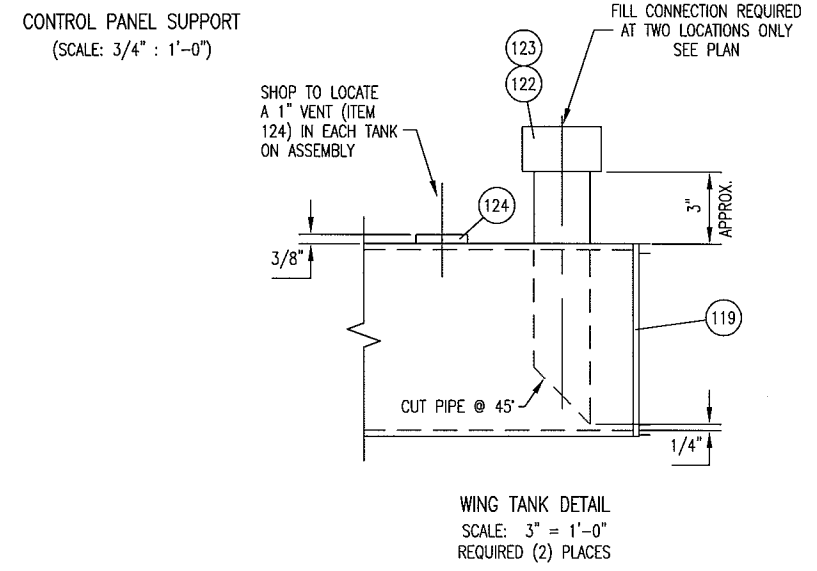


PLAN VIEW
SCALE: 3/4" = 1'-0"

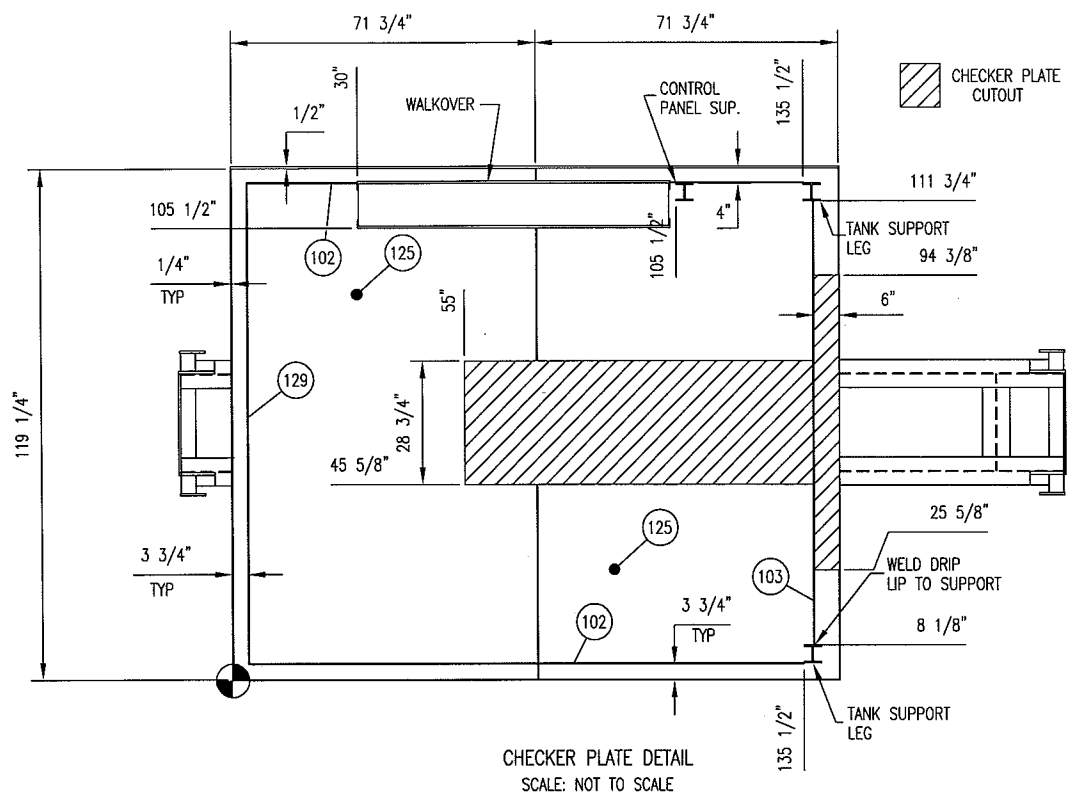
SHOP NOTE:
SHOP TO BEAD WELD
JOB NUMBER ON TO
FACE OF ITEM 116



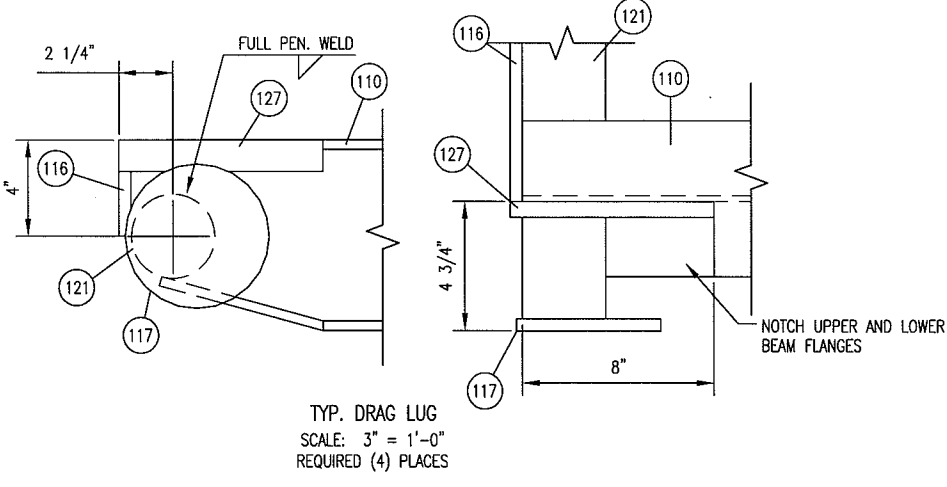
SECTION 'B-B'
SCALE: 1" = 1'-0"



WING TANK DETAIL
SCALE: 3" = 1'-0"
REQUIRED (2) PLACES



CHECKER PLATE DETAIL
SCALE: NOT TO SCALE

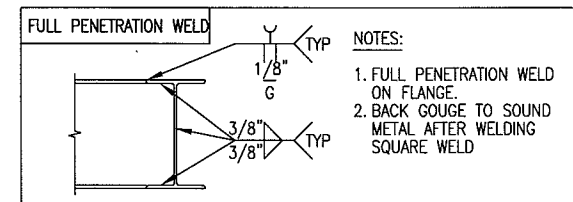


TYP. DRAG LUG
SCALE: 3" = 1'-0"
REQUIRED (4) PLACES

BILL OF MATERIAL			
ITEM	QTY	DESCRIPTION	MATERIAL
101	2	H.S.S.: 8 X 4 X 0.250" THK X 156" LG	G40.21350W
102	2	FLATBAR: 2" X 1/4" THK X 131 3/4" LG	G40.2144W
103	1	FLATBAR: 2" X 1/4" THK X 103 5/8" LG	G40.2144W
104	7	W 8 X 24 X 22 1/2" LG	G40.2150W
105	1	W 8 X 24 X 16 1/4" LG	G40.2150W
106	1	W 8 X 24 X 11" LG	G40.2150W
107	1	W 8 X 24 X 21 3/4" LG	G40.2150W
108	1	W 8 X 24 X 15 3/4" LG	G40.2150W
109	1	W 8 X 24 X 16 1/2" LG	G40.2150W
110	2	W 8 X 24 X 209" LG	G40.2150W
111	6	W 8 X 24 X 44 1/2" LG	G40.2150W
112	1	W 6 X 15 X 4 3/16" LG	G40.2150W
113	2	W 4 X 13 X 66 1/4" LG	G40.2150W
114	2	W 4 X 13 X 70 3/4" LG	G40.2150W
115	1	W 4 X 13 X 67 1/2" LG	G40.2150W
116	2	FLAT BAR: 1/2" THK 4" X 23" LG	G40.2144W
117	4	PLATE: 1/2" THK 6" DIA.	G40.2144W
118	1	PLATE: 3/8" THK 10" X 16 1/4" LG	G40.2144W
119	4	FLAT BAR: 1/4" THK 4" X 8" LG	G40.2144W
120	1	FLAT BAR: 1/2" THK 6" SQ. (CUT @ 45° 1 MAKES 2)	G40.2144W
121	2	PIPE: 3" NOM SCH 80 X 32 3/4" LG	SA-106-B
122	2	PIPE: 2" NOM SCH 40 X 15 1/2" LG (CTS)	SA-106-B
123	2	PIPE CAP: 2"-3000# NPT	SA-105
124	2	COUPLING: 1"-3000# NPT	SA-105
125	2	CHECKER PLATE: 3/16" THK 72" X 120" LG	SA-36
126	1	PLATE: 3/8" THK 16 1/4" X 29" LG	G40.2144W
127	2	PIPE: 1" NOM SCH 80 X 8 1/2" LG (CUT IN HALF)	SA-106-B
128	1	PLATE: 1/4" THK 4" SQ.	G40.2144W
129	1	FLATBAR: 2" X 1/4" THK X 112" LG.	G40.2144W
130	1	PLATE: 3/8" THK 12 1/2" X 16 1/4" LG	G40.2144W
131	1	PLATE: 3/8" THK 5 1/2" X 16 1/4" LG	G40.2144W
132	2	H.S.S.: 2" X 2" X 0.250" THK X 20 1/2" LG	G40.21350W

GENERAL NOTES:

- ALL TAIL DIMENSIONS FROM REFERENCE POINT.
- WEIGHT OF SKID STEEL BASE: 4470 LBS
WEIGHT OF RAISED BASE: 289 LBS
TOTAL WEIGHT: 4759 LBS
- COPE FLANGES WHERE REQUIRED.
- ALL WELDS TO BE 1/4" FILLETS ALL AROUND, UNLESS OTHERWISE NOTED.
- ALL CUT LENGTHS ARE EXACT TOL +0.0"/-0.125" (+0 MM/-3 MM)
- ALL BOLT HOLES ARE 3/4" (19 MM) UNLESS OTHERWISE NOTED.
- SURFACE PREP: SSPC-SP2.
PRIMER: ONE COAT OF PRI-1 RED OXIDE
PAINT: ONE COAT OF FIN-1
- FULL PENETRATION STRENGTH WELD IS REQ'D AT THESE LOCATIONS.
- ALL PANEL JOINTS OF CHECKER PLATE ARE TO BE SEAL WELDED. PERIMETER OF SKID TO BE STITCH WELDED. SKID MEMBERS TO UNDERSIDE OF CHECKER PLATE TO BE STITCH WELDED AT 2"(50 MM) OF FILLET ON 16" (406) CENTERS

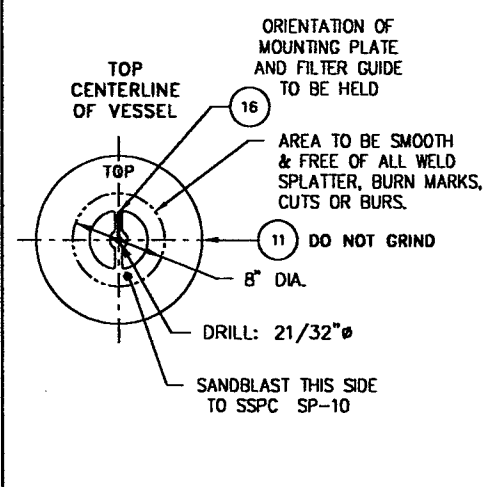


REV.	DESCRIPTION	DATE	BY	APPR.
2	AS BUILT	AUG 19/05	RH	
1	ISSUED FOR CONSTRUCTION	JAN 14/05	GWS	GS

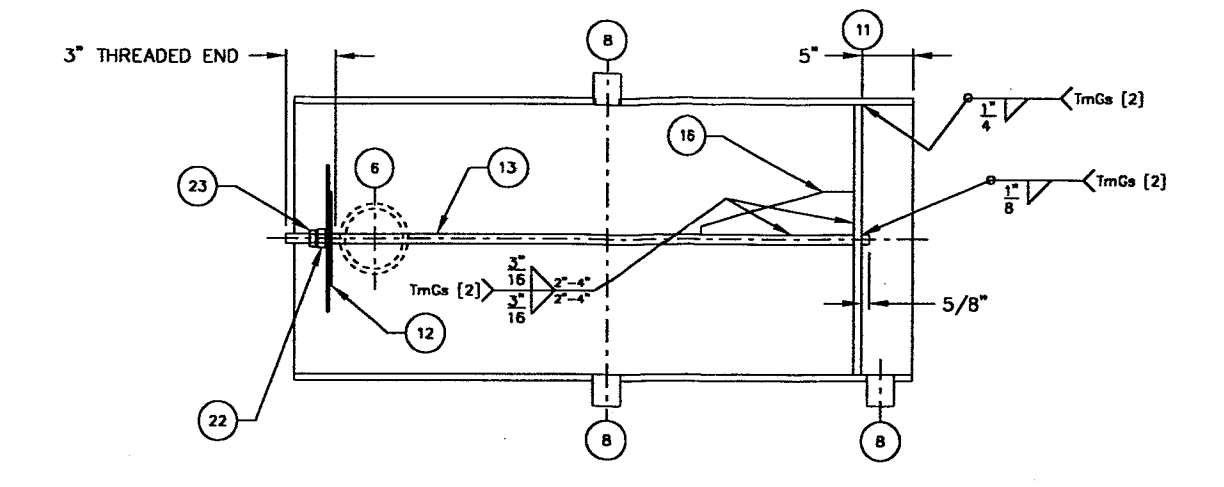
PERMIT TO PRACTICE STAMP	ENGINEER STAMP
--------------------------	----------------

		TITLE: STRUCTURAL STEEL DETAILS	
DRAWN BY: C. DAVIDSON CHKD. BY: G. SCHUSTER APPR. BY: G. SCHUSTER	DATE: JAN 14/05 SCALE: AS NOTED W.D. No: 11715201	FOR: TOROMONT PROCESS SYSTEMS 90 HP WELLHEAD BOOSTER UNIT FRICK XJF 151M COMPRESSOR	
CUST. PO No:	DWG. No: 11715-301	SHEET No: 1 OF 2	REV: 2

DETAIL 'A'

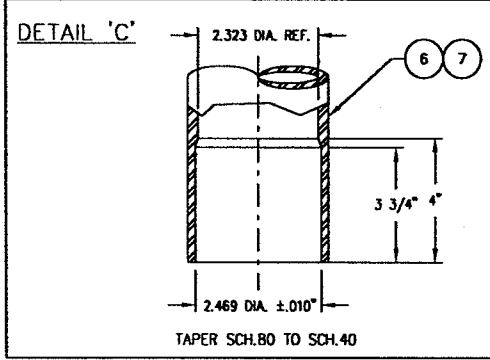
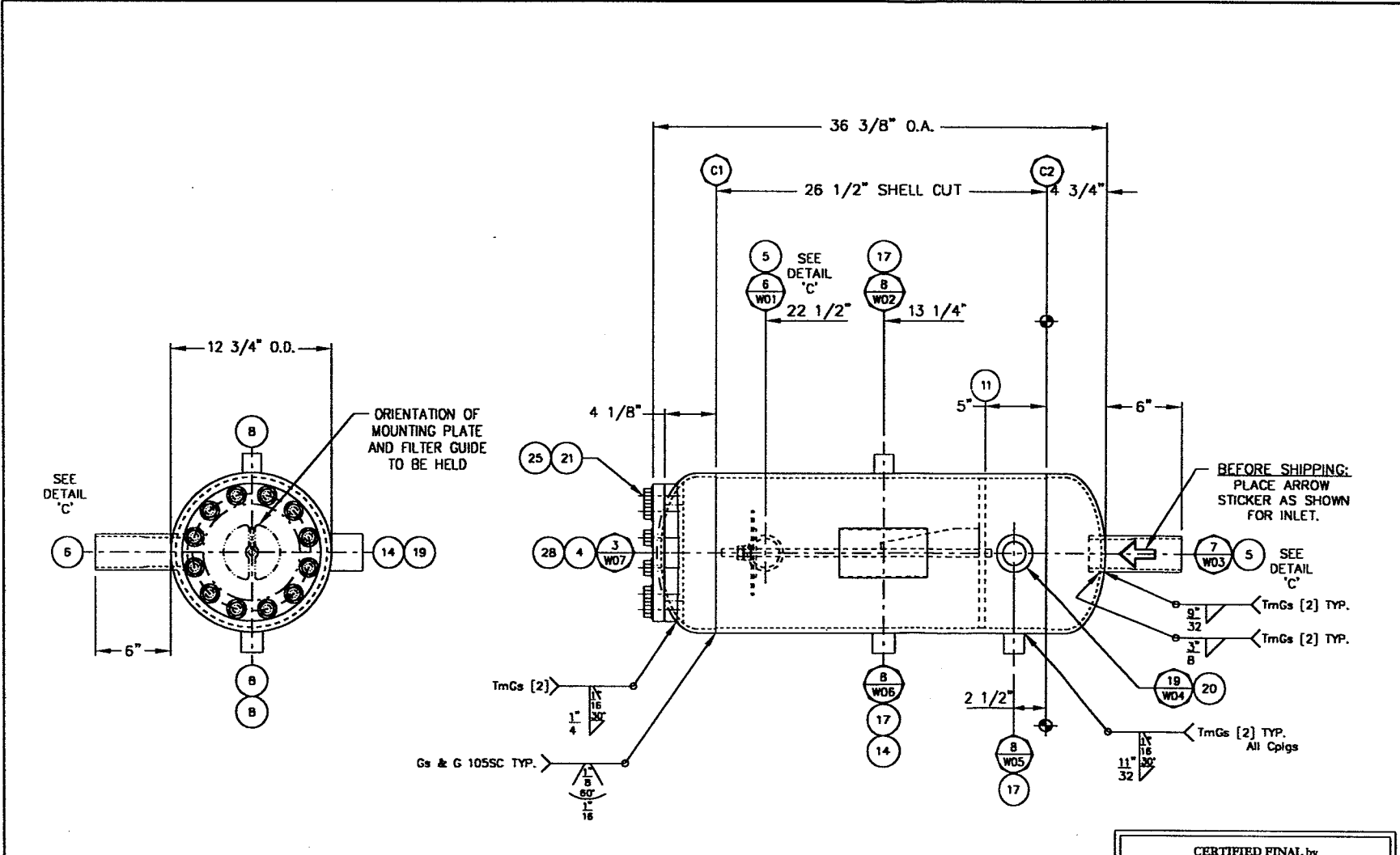


DETAIL 'B'



BILL OF MATERIAL

ITEM	QTY	DESCRIPTION	UNIT	MATERIAL	PART No.
1	1	PIPE: 12\"/>			
2	2	HEAD: 12 3/4\"/>			
3	1	BOLTING PAD: 11\"/>			
4	1	FLAT HEAD: 11\"/>			
5	2	TESTING PLATE: for 2 1/2\"/>			
6	1	PIPE: 2 1/2\"/>			
7	1	PIPE: 2 1/2\"/>			
8	3	COUPLING: 3/4\"/>			
9					
10	1	COALESCER: 7\"/>			
11	1	MOUNTING BRKT: 11 7/8\"/>			
12	1	PLATE: 6 3/4\"/>			
13	1	COALESCER ROD: 5/8\"/>			
14	1	NAMEPLATE: (WELD TO SHELL USING SP01)	1.00	ST.STL.	NM05XU96
15					
16	1	PLATE: 8\"/>			
17	3	PLUG: 3/4\"/>			
18					
19	1	COUPLING: 1 1/2\"/>			
20	1	PLUG: 1 1/2\"/>			
21	12	BOLT: 5/8\"/>			
22	1	NUT: 5/8\"/>			
23	1	NUT: 5/8\"/>			
24					
25	12	BELLEVILLE WASHER: 5/8\"/>			
26					
27					
28	1	GASKET: 8 9/16\"/>			



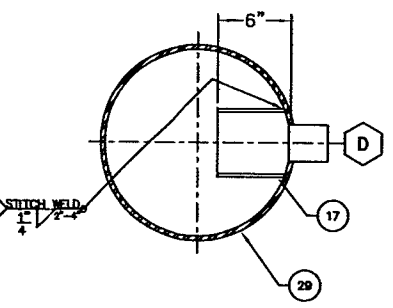
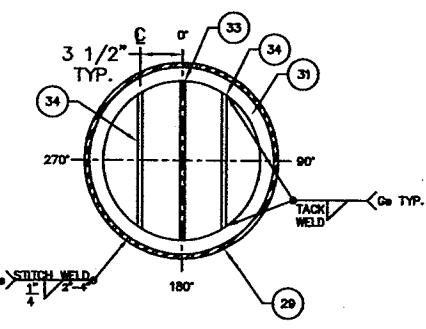
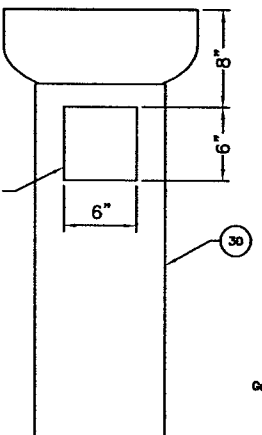
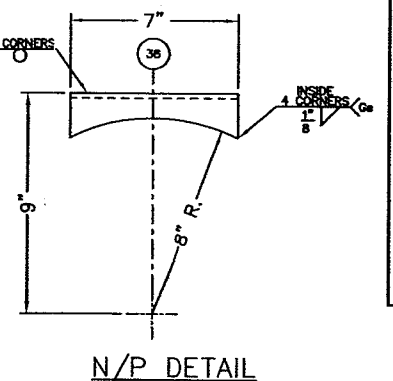
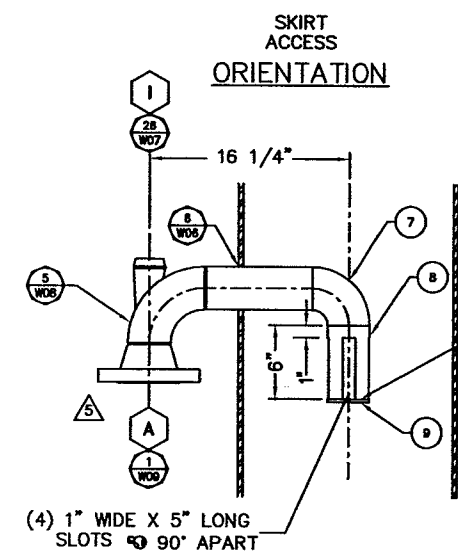
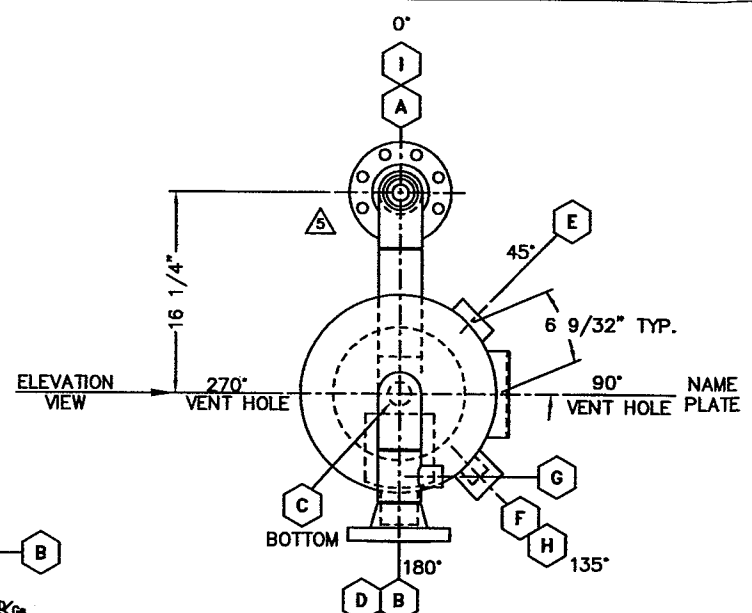
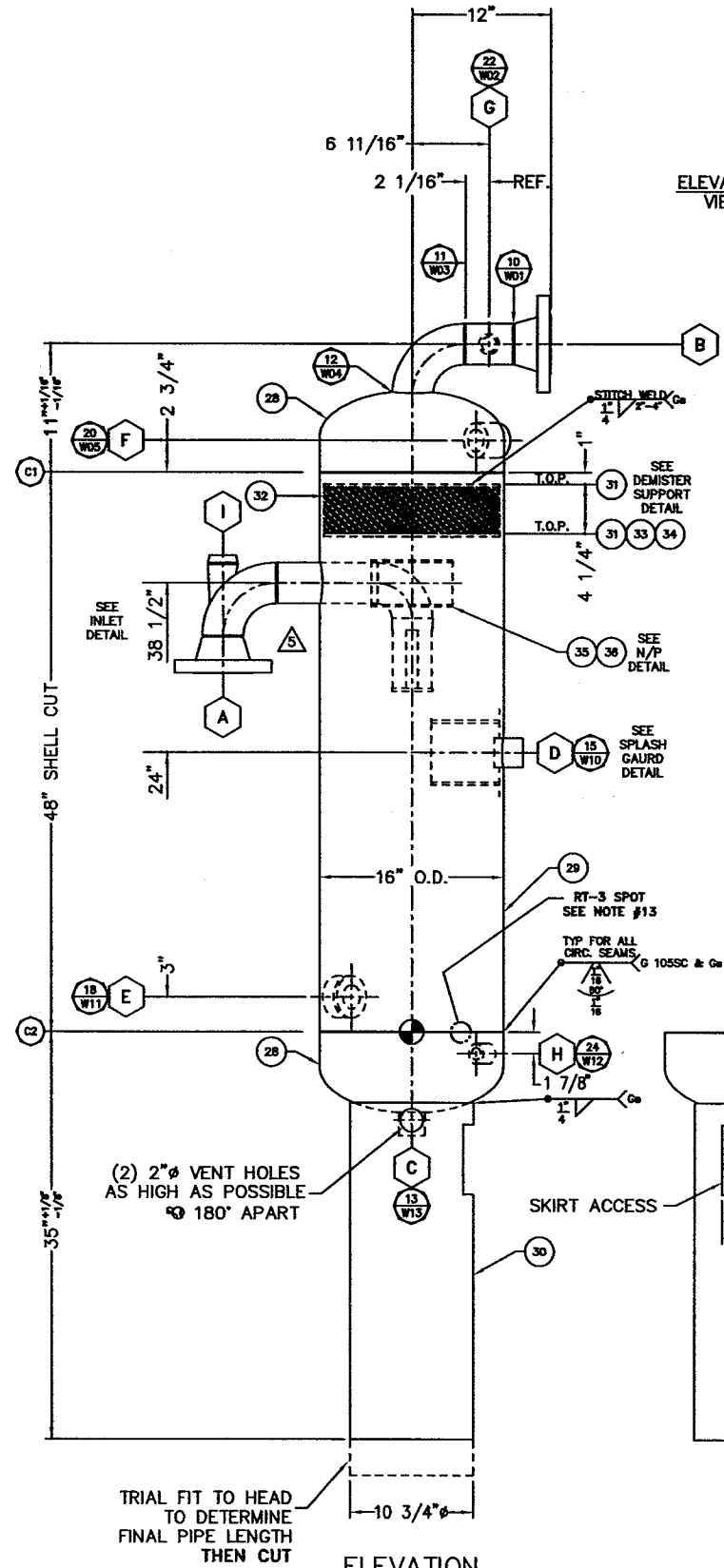
NOTES:
 1. M.A.W.P.: 400 PSIG. ● 400°F. M.D.M.T.: -20°F. ● 400 PSIG.
 2. TEST PRESSURE: 440 PSIG. PNEUMATIC.
 3. VESSEL TO BE DESIGNED & CONSTRUCTED IN ACCORDANCE WITH A.S.M.E. SECTION VIII DIVISION 1, 2004 EDITION, UW-12(e) & C.S.A. B-51 CODES.
 4. C.R.No.: L9799.213 DWG. No.: R2001830 Rev.1
 5. VESSEL TO BE CLEANED TO HENRY TECHNOLOGIES WORK INSTRUCTION: K003
 6. ALL EXPOSED INSIDE EDGES TO BE CHAMFERED OR ROUNDED.
 7. EXTERIOR FINISH: RED OXIDE PRIMER.
 8. ALL TAIL DIMENSIONS ARE REFERENCED FROM DATUM LINE.
 9. GASKET SEAT AREA TO BE FREE OF ALL CUTS, BURS OR BURN MARKS. INSURE COALESCER IS PROPERLY SEATED.
 10. BOLTING PAD & FLAT HEAD DWG No.: 15064 Rev.1
 11. CORROSION ALLOWANCE: 1/16\"/>

DATE	REV.	BY	REVISION	APP'D.
FEB. 4/05	8	LH	CHGD WELD SYM TO TmGs [2] UPDATED EDITION	
JULY 23/04	7	CS	CHANGED ROUND BAR TO A DIFFERENT PART NUMBER	
JAN. 23/04	6	DK	UPDATED TO CURRENT ADDENDA	
MAR. 26/03	5	DK	UPDATED TO ISO STANDARDS	
JAN. 24/03	4	CS	UPDATED TO CURRENT	
MAY 09/02	3	DK	UPDATED NEW PART & TO CURRENT STANDARDS	

CERTIFIED FINAL by
HENRY
 TECHNOLOGIES
 SIGNATURE: [Signature] DATE: MAR. 08/05

TOROMONT CERTIFIED DRAWING
 REFERENCE: TPS 90 HP OIL SEPARATOR
 DATE: BY: REV.: 0

ENGINEERING MANAGER or DESIGNEE
 REV. B APPROVED FOR FABRICATION BY [Signature] SIGNATURE DATE
HENRY TECHNOLOGIES
 P.O. BOX 1385, BRANTFORD ONTARIO, CANADA, N3T 5T6
 PHONE: (519) 759-3010 FAX: (519) 759-6746
 MODEL No.: COSM-070-T COALESCER OIL SEPARATOR COSM-12036-800
 CUSTOMER: TOROMONT PROCESS SYSTEMS DWG. No.: TPS0003
 DATE: APR. 13/00 BY: Dm CHK'D: APP'D: SCALE: N.T.S. ORDER NUMBER: REV. No.: 8



SCHEDULE OF OPENINGS				BILL OF MATERIAL			WELD CHART								
MARK	SERVICE	ITEM	QTY	DESCRIPTION	UNIT	MATERIAL	PART No.	WLD	WELD A	WELD B	WELD C	O.S. PROJ.	I.S. PROJ.	I.S. PROF.	HEAT NUMBER
A	INLET	1	1	FLANGE: 3" x 300 LB. R.F. WELD NECK (SCH.80 BORE)	1.00	SA 105	FW242E21	12	-	-	-	-	-	-	STR
		2	1	ELBOW: 3" SCH.80 LONG RADIUS 90°	1.00	SA 234 WPB	EL248041	13	-	-	-	-	-	-	STR
		3	1	PIPE: 3" SCH.80 x 8 5/8" LG.	8.63	SA 106B SMLS	PS248014	1	3/8"	-	-	-	DET	DET	STR
		4	1	ELBOW: 3" SCH.40 SHORT RADIUS 90°	1.00	SA 234 WPB	ES244041	13	-	-	-	-	-	-	STR
		5	1	PIPE: 3" SCH.40 x 8" LG.	6.00	SA 106B SMLS	PS244014	13	-	-	-	-	-	-	STR
		6	1	PLATE: 3 1/2" OD. x 1/4" THK.	1.00	SA 36	PF720004		-	-	-	-	-	-	STR
		7	1	FLANGE: 3" x 300 LB. R.F. WELD NECK (SCH.80 BORE)	1.00	SA 105	FW242E21	12	-	-	-	-	-	-	STR
		8	1	PIPE: 3" SCH.80 x 4 3/8" LG.	4.38	SA 106B SMLS	PS248014	13	-	-	-	-	-	-	STR
		9	1	ELBOW: 3" SCH.80 LONG RADIUS 90°	1.00	SA 234 WPB	EL248041	1E	3/8"	-	-	-	DET	MIN	STR
B	OUTLET	10	1	COUPLING: 1 1/2" FPT. 8000 LB. FULL	1.00	SA 105	CF086T21	3	3/8"	-	-	-	FLUSH	CONT	
		11	1	PLUG: 1" HEX HEAD	1.00	SA 105	PG08H21		-	-	-	-	-		
C	DRAIN	12	1	COUPLING: 1 1/2" FPT. 8000 LB. HALF	1.00	SA 105	CH126T21	3	3/8"	-	-	-	MIN	STR	
		13	1	PLUG: 1 1/2" HEX HEAD	1.00	SA 105	PG12H21		-	-	-	-	-		
D	LEVEL SWITCH	14	1	COUPLING: 2" FPT. 8000 LB. FULL	1.00	SA 105	CF086T21	3	3/8"	-	-	-	MIN	STR	
		15	1	PLUG: 2" HEX HEAD	1.00	SA 105	PG08H21		-	-	-	-	-		
E	LEVEL EYE (INSPECTION)	16	1	COUPLING: 1 1/2" FPT. 8000 LB. FULL	1.00	SA 105	CF126T21	3	3/8"	-	-	-	MIN	STR	
		17	1	PLUG: 1 1/2" HEX HEAD	1.00	SA 105	PG12H21		-	-	-	-	-		
F	INSPECTION	18	1	COUPLING: 1 1/2" FPT. 8000 LB. FULL	1.00	SA 105	CF126T21	3	3/8"	-	-	-	MIN	STR	
		19	1	PLUG: 1 1/2" HEX HEAD	1.00	SA 105	PG12H21		-	-	-	-	-		
G	FUEL GAS SUPPLY	20	1	COUPLING: 1" FPT. 8000 LB. FULL	1.00	SA 105N	CF086T21	3	3/8"	-	-	-	MIN	STR	
		21	1	PLUG: 1" HEX HEAD	1.00	SA 105	PG08H21		-	-	-	-	-		
H	LEVEL GLASS OPTION	22	1	COUPLING: 3/4" FPT. 8000 LB. FULL	1.00	SA 105	CF086T21	3	1/4"	-	-	-	MIN	STR	
		23	1	PLUG: 3/4" HEX HEAD	1.00	SA 105	PG08H21		-	-	-	-	-		
I	P.S.V.	24	1	ELBOWLET: 1" FPT. 8000 LB. FULL	1.00	SA 105	OE086T21	14	1/4"	-	-	-	N/A	STR	
		25	1	PLUG: 1" HEX HEAD	1.00	SA 105	PG08H21		-	-	-	-	-		
26	2	PIPE CAP: 16" STD.WT.(0.375") x 7" H.H. (SHELL)	1.00	SA 234 WPB	PC128S41		-	-	-	-	-	-			
27	1	PIPE: 16" STD.WT.(0.375") x 48" LG. (SHORT CUT TO LENGTH AT FIT UP.)	48.00	SA 106B SMLS	PL180114		-	-	-	-	-	-			
28	1	PIPE: 10" SCH.40(0.385") x 28 7/8" LG. (SHORT CUT TO LENGTH AT FIT UP.)	28.68	SA 106B SMLS	PL104014		-	-	-	-	-	-			
29	2	PLATE: 15 1/8" OD. x 13" ID. x 1/4" THK. (DEMISTER SUPPORT)	1.00	SA 516-70	PF720005		-	-	-	-	-	-			
30	1	DEMISTER PAD: 4" THK. x 15 1/8" OD. @ 90°/11°	1.00	STAINLESS STEEL	MP40816N		-	-	-	-	-	-			
31	1	ROUND BAR: 3/8" DIA. x 12 7/8" LG. (DEMISTER SUPPORT)	0.20	SA 36	RB080003		-	-	-	-	-	-			
32	2	ROUND BAR: 3/8" DIA. x 11" LG. (DEMISTER SUPPORT)	0.20	SA 36	RB080003		-	-	-	-	-	-			
33	1	NAMEPLATE:	1.00	ST.STL.	NM05XU96		-	-	-	-	-	-			
34	1	NAMEPLATE BRACKET: STD. 2" CLEARANCE (RADIUS TO FIT SHELL WITH 1" CLEARANCE)	1.00	SA 36	PP-13051		-	-	-	-	-	-			

CERTIFIED FINAL by

HENRY

TECHNOLOGIES

SIGNATURE: *[Signature]* DATE: JAN 7/05

- GENERAL NOTES:**
- ALL TAIL DIMENSIONS FROM REFERENCE POINT.
 - ALL FORGED THD & SW FITTINGS PER ANSI B16.11 UNLESS OTHERWISE NOTED.
 - EXTERIOR & INTERIOR OF VESSEL TO BE FREE OF WELD SLAG, SPATTER, GREASE, MOISTURE, ETC.
 - ALL CUT LENGTHS ARE FINISHED LENGTHS, PIPING CUT LENGTHS ARE BASED ON 1/8" (3 mm) WELD GAP.
 - PROJECT NAME PLATE 1" (25 mm) FROM SHELL/INSUL.
 - ALL TACK WELDS TO BE PER WP GS
 - SURFACE PREPARATION: SANDBLAST TO SSPC-SP8.
 - PRIMER: ONE COAT OF RED OXIDE PRIMER (SPEC# PRI-1)
 - INSULATION: NONE
 - VESSEL BUILT TO TOROMONT DWG. No.: TPS-90-V1/1
 - VESSEL BASED ON HENRY TECHNOLOGIES DWG. No.: TPS0007/0
 - VESSEL TO BE SHIPPED c/w PARTIAL DOCUMENTATION.
 - SPOT RADIOGRAPHY TO MEET RT-3 REQUIREMENTS. (RECOMMENDED SPOT SHOWN, AUTHORIZED INSPECTOR MAY RELOCATE)

DESIGN DATA	
TYPE: "SS"	POSITION: HORIZ. XXX VERT.
WEIGHT - EMPTY: 485 (LBS) - 220 (KGS)	
DESIGN PRESSURE (PSIG) [kPag]	400 [2758]
DESIGN TEMPERATURE (°F.) [°C]	-20/250 [-29/121]
MINIMUM DESIGN METAL TEMPERATURE (IMPERIAL)	-20°F @ 400 PSIG
MINIMUM DESIGN METAL TEMPERATURE (METRIC)	-29°C @ 2758 kPag
PNEUMATIC TEST PRESSURE (PSIG) (CODE CASE 1518-5)	440 [3034]
FLUID \ VAPOUR	NATURAL GAS
RADIOGRAPHY	RT-3
CORROSION ALLOWANCE	1/16" [1.6mm]
CODE PARAGRAPH	UW-12(d)
CRN: L9780.213	DWG. No.: R200183A/0
VOLUME: SHELL SIDE: 3.75 ft ³ 0.11 m ³	
VESSEL TO BE DESIGNED & CONSTRUCTED IN ACCORDANCE WITH A.S.M.E. SECTION VIII DIVISION 1, 2001 EDITION, 2003 ADDENDA & C.S.A. B-51 CODES.	

DATE	REV.	BY	REVISION	APP'D.
JAN. 23/04	6	DK	UPDATED TO CURRENT ADDENDA	
JUNE 25/03	5	DM	REMOVED EXTERNAL PIPING & CHANGED ORIENTATION	
JAN. 24/03	4	CS	UPDATED TO CURRENT	
MAY 15/02	3	DM	INCREASED SKIRT LENGTH	
Sept. 25/01	2	SGC	REVISED AS PER CUSTOMER REQUESTS	
FEB. 02/01	1	Dm	ADDED BRACING FOR EXTERNAL PIPING	

ENGINEERING MANAGER or DESIGNER: _____

REV. 6 APPROVED FOR FABRICATION BY: _____ SIGNATURE: _____ DATE: _____

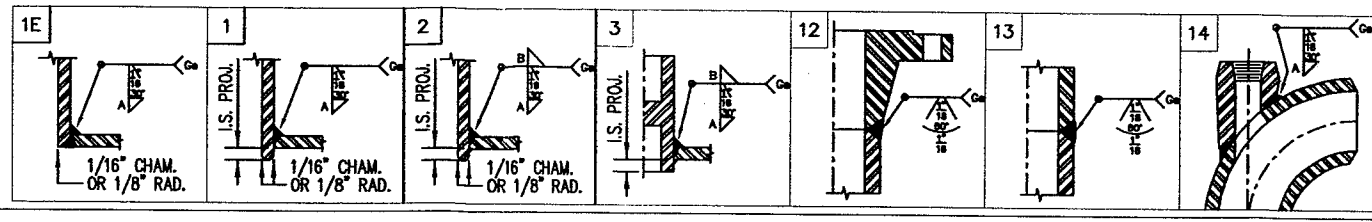
HENRY TECHNOLOGIES

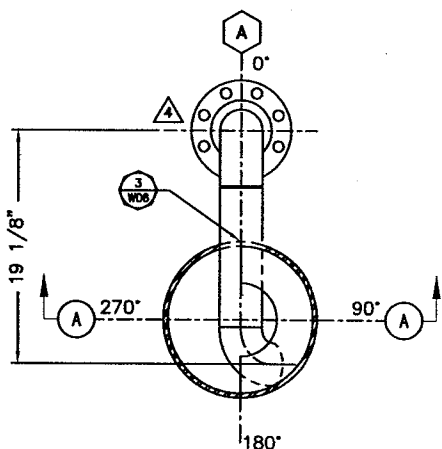
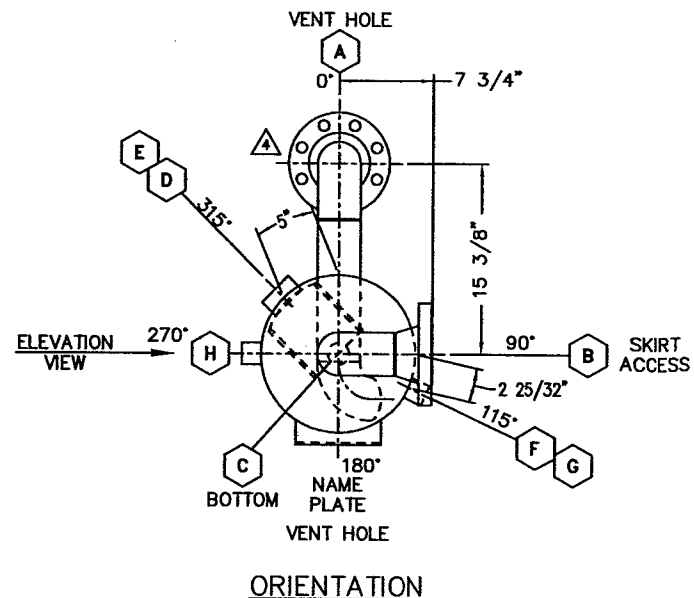
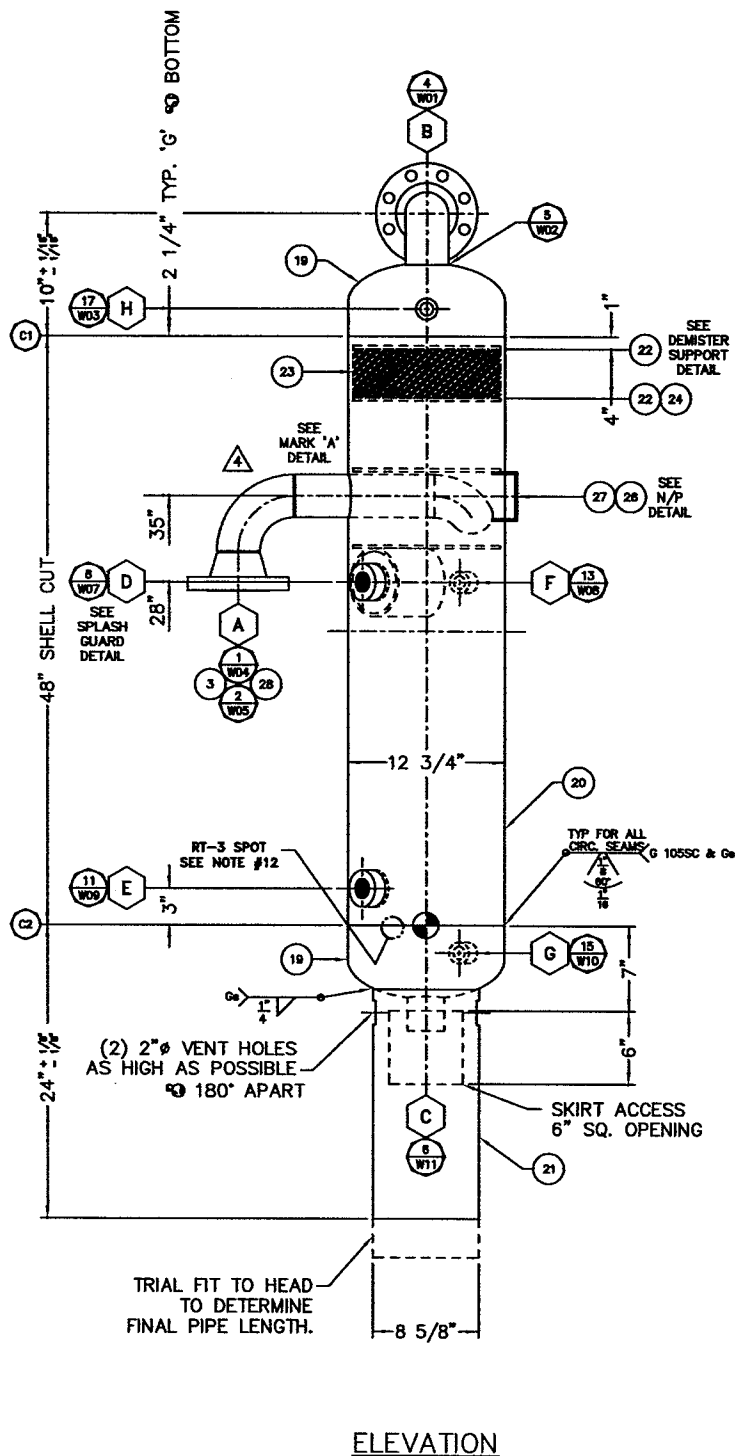
P.O. BOX 1385, BRANTFORD ONTARIO, CANADA, N7Y 5T8
PHONE: (519) 759-3010
FAX: (519) 759-6746

MODEL No.: V-1 SUCTION SCRUBBER 16" OD. x 48" SEAM TO SEAM
c/w 'A' @ 0° & 'B' @ 180° REF. DWG. No: TPS0007

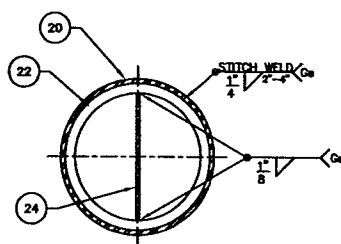
CUSTOMER: TOROMONT PROCESS SYSTEMS DWG. No: TPS0012

DATE: JAN. 02/01 BY: SGC CH'D: ARP'D: SCALE: ORDER NUMBER: REV. No.: 6

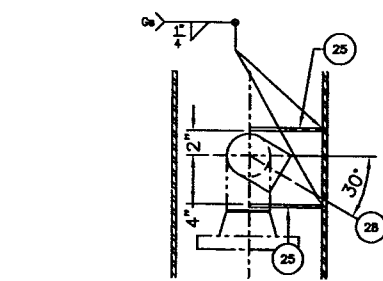




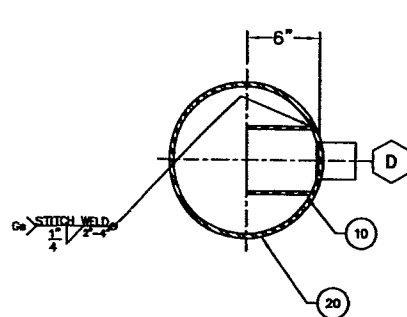
MARK 'A' DETAIL



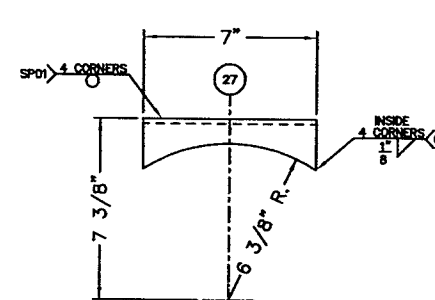
DEMISTER SUPPORT



VIEW 'A'-A



SPLASH GUARD DETAIL
NOT TRUE ORIENTATION



N/P DETAIL

SCHEDULE OF OPENINGS				BILL OF MATERIAL				WELD CHART							
MARK	SERVICE	ITEM	QTY	DESCRIPTION	UNIT	MATERIAL	PART NO.	WLD	WELD	WELD	WELD	O.S. PROJ.	I.S. PROJ.	I.S. PROF.	HEAT NUMBER
A	INLET	1	1	FLANGE: 3" x 300 LB. R.F. WELD NECK (SCH.80 BORE)	1.00	SA 105	FW242E21	12	-	-	-	-	-	-	STR
		2	1	ELBOW: 3" SCH.80 LONG RADIUS 90°	1.00	SA 234 WPB	EL248041	13	-	-	-	-	-	-	STR
		3	1	PIPE: 3" SCH.80 x 11 3/8" LG.	11.38	SA 106B SMLS	PS248014	1	3/8"	-	-	DET	DET	-	STR
		28	1	ELBOW: 3" SCH.80 SHORT RADIUS 90°	1.00	SA 234 WPB	ES248041	13	-	-	-	-	-	-	STR
B	OUTLET	4	1	FLANGE: 3" x 300 LB. R.F. WELD NECK (SCH.80 BORE)	1.00	SA 105	FW242E21	12	-	-	-	-	-	-	STR
		5	1	ELBOW: 3" SCH.80 LONG RADIUS 90°	1.00	SA 234 WPB	EL248041	1	3/8"	-	-	DET	MIN	STR	
C	DRAIN	6	1	COUPLING: 1 1/2" FPT. 8000 LB. FULL	1.00	SA 105	CF128T21	3	3/8"	-	-	-	-	FLUSH	STR
		7	1	PLUG: 1 1/2" HEX HEAD	1.00	SA 105	PG128D21								
D	LEVEL SWITCH	8	1	COUPLING: 1 1/2" FPT. 8000 LB. HALF	1.00	SA 105	CH128T21	3	3/8"	-	-	-	-	MIN	STR
		9	1	PLUG: 1 1/2" HEX HEAD	1.00	SA 105	PG128D21								
		10	1	PIPE: 5" SCH.40(0.258") x 6" LG.	8.00	SA 106B SMLS	PL054014								
E	LEVEL SWITCH (INSPECTION)	11	1	COUPLING: 1 1/2" FPT. 8000 LB. HALF	1.00	SA 105	CH128T21	3	3/8"	-	-	-	-	MIN	STR
		12	1	PLUG: 1 1/2" HEX HEAD	1.00	SA 105	PG128D21								
F	LEVEL GAUGE	13	1	COUPLING: 3/4" FPT. 8000 LB. FULL	1.00	SA 105	CF088T21	3	3/8"	-	-	-	-	MIN	STR
		14	1	PLUG: 3/4" HEX HEAD	1.00	SA 105	PG088D21								
G	LEVEL GAUGE	15	1	COUPLING: 3/4" FPT. 8000 LB. FULL	1.00	SA 105	CF088T21	3	3/8"	-	-	-	-	MIN	STR
		16	1	PLUG: 3/4" HEX HEAD	1.00	SA 105	PG088D21								
H	INSPECTION	17	1	COUPLING: 3/4" FPT. 8000 LB. FULL	1.00	SA 105	CF088T21	3	5/16"	-	-	-	-	MIN	STR
		18	1	PLUG: 3/4" HEX HEAD	1.00	SA 105	PG088D21								
19	2	PIPE CAP: 12" STD.WT.(0.375") x 6" H.H. (HEAD)	1.00	SA 234 WPB	PC980141										
20	1	PIPE: 12" STD.WT.(0.375") x 48" LG. 0.3281" MIN. THK. (SHELL)	48.00	SA 106B SMLS	PL120114										
21	1	PIPE: 8" SCH.40(0.322") x 22" LG. (SHORT) EXTRA TO BE CUT OFF AT FIT UP.	22.00	SA 106B SMLS	FL084014										
22	2	PLATE: 11 7/8" OD. x 10 3/8" ID. x 1/4" THK. (DEMISTER SUPPORT)	1.00	SA 518-70	PPT20007										
23	1	DEMISTER PAD: 4" THK. x 11 7/8" OD. @ 90°/R	1.00	STAINLESS STEEL	MP40812N										
24	2	ROUND BAR: 1/4" DIA. x 10 1/4" LG.	0.20	SA 36	RB040003										
25	2	PLATE: 11 7/8" OD. x 6" ID. x 1/4" THK. (FLOW DIRECTOR)	1.00	SA 518-70	PPT20008										
26	1	NAMEPLATE	1.00	ST.STL.	NM05K096										
27	1	NAMEPLATE BRACKET: STD. 2" CLEARANCE (RADIIUS TO FIT SHELL WITH 1" CLEARANCE)	1.00	SA 36	PP-13051										

DESIGN DATA	
TYPE: '05'	POSITION: HORIZ. XXX VERT.
WEIGHT - EMPTY: 360 (LBS) - 164 (KGS)	
DESIGN PRESSURE (PSIG) [kPaG]	400 [2758]
DESIGN TEMPERATURE (°F.) [°C]	-20/250 [-29/121]
MINIMUM DESIGN METAL TEMPERATURE (IMPERIAL)	-20F @ 400 PSIG
MINIMUM DESIGN METAL TEMPERATURE (METRIC)	-29C @ 2758 kPaG
PNEUMATIC TEST PRESSURE (PSIG) (CODE CASE 1518-5)	440 [3034]
FLUID \ VAPOUR	NATURAL GAS
RADIOGRAPHY	RT-3
CORROSION ALLOWANCE	1/16" [1.6mm]
CODE PARAGRAPH	UW-12(d)
CRN: L9758.213	DWG. No.: R2001838/0
VOLUME: SHELL SIDE: 3.75 m ³ 0.11 m ³	
VESSEL TO BE DESIGNED & CONSTRUCTED IN ACCORDANCE WITH A.S.M.E. SECTION VIII DIVISION 1, 2001 EDITION, 2003 ADDENDA & C.S.A. B-51 CODES.	

CERTIFIED FINAL by

HENRY
 TECHNOLOGIES
 SIGNATURE: *[Signature]* DATE: Jan 7/05

GENERAL NOTES:			
1.	ALL TAIL DIMENSIONS FROM REFERENCE POINT. Ⓞ		
2.	ALL FORGED THD & SW FITTINGS PER ANSI B16.11 UNLESS OTHERWISE NOTED.		
3.	EXTERIOR & INTERIOR OF VESSEL TO BE FREE OF WELD SLAG, SPATTER, GREASE, MOISTURE, ETC.		
4.	ALL CUT LENGTHS ARE FINISHED LENGTHS, PIPING CUT LENGTHS ARE BASED ON 1/8" (3 mm) WELD GAP.		
5.	PROJECT NAME PLATE 1" (25 mm) FROM SHELL/INSUL.		
6.	ALL TACK WELDS TO BE PER WP GS		
7.	SURFACE PREPARATION: SANDBLAST TO SSPC-SP6.		
8.	PRIMER: ONE COAT OF RED OXIDE PRIMER (SPEC# PRI-1)		
9.	INSULATION: NONE		
10.	VESSEL BUILT TO TOROMONT DWG. No.: TPS-90-v2/1		
11.	VESSEL TO BE SHIPPED c/w PARTIAL DOCUMENTATION.		
12.	SPOT RADIOGRAPHY TO MEET RT-3 REQUIREMENTS. (RECOMMENDED SPOT SHOWN, AUTHORIZED INSPECTOR MAY RELOCATE)		
JAN. 21/04	5	CS	UPDATED TO CURRENT
JUNE 28/03	4	DM	ADDED INLET FLANGE & CHANGED ORIENTATION
JAN. 24/03	3	CS	UPDATED TO CURRENT
Sept. 25/01	2	SGC	REVISED SKIRT LENGTH TO 22"
Sept. 11/00	1	SGC	REVISED ITEM No. 21 TO 1" SHORTER
DATE	REV.	BY	REVISION

ENGINEERING MANAGER or DESIGNER: _____
 REV. 5 APPROVED FOR FABRICATION BY: _____ SIGNATURE: _____ DATE: _____

HENRY
 TECHNOLOGIES
 P.O. BOX 1385, BRANTFORD ONTARIO, CANADA, N3T 5T8
 PHONE: (519) 759-3010 FAX: (519) 759-6746

MODEL No.: V-2 OIL SEPARATOR 12" OD. x 48" SEAM TO SEAM
 c/w 'A' @ 0° & 'B' @ 90°

CUSTOMER: TOROMONT PROCESS SYSTEMS DWG. No: TPS0008
 DATE: APRIL 03/00 BY: SGC CHKD: APPD: SCALE: N.T.S. ORDER NUMBER: REV. No.: 5

