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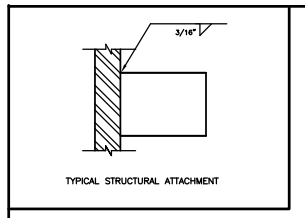
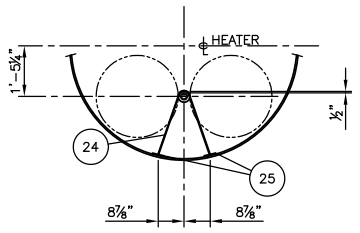
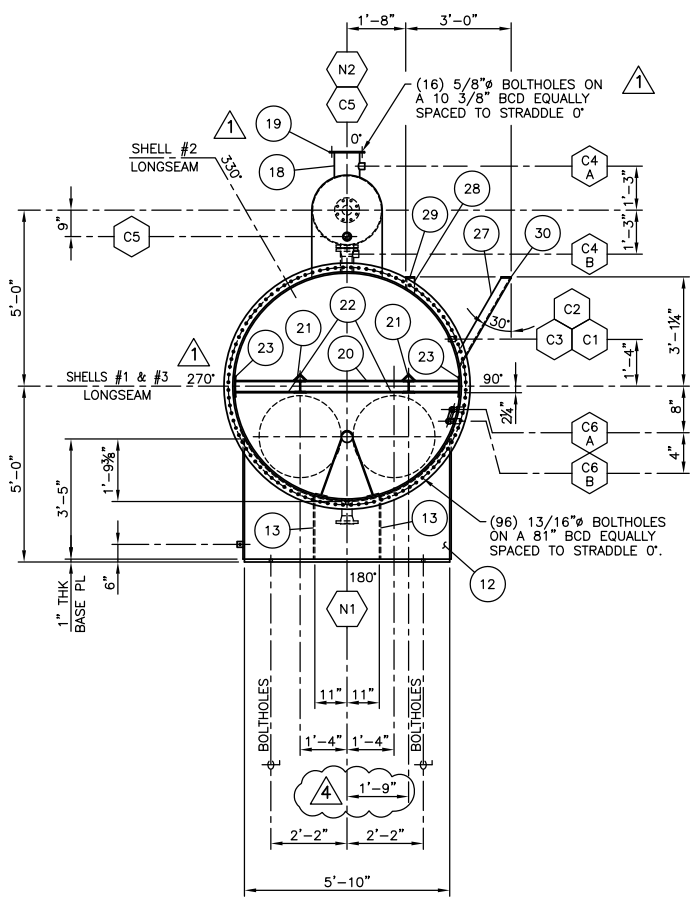


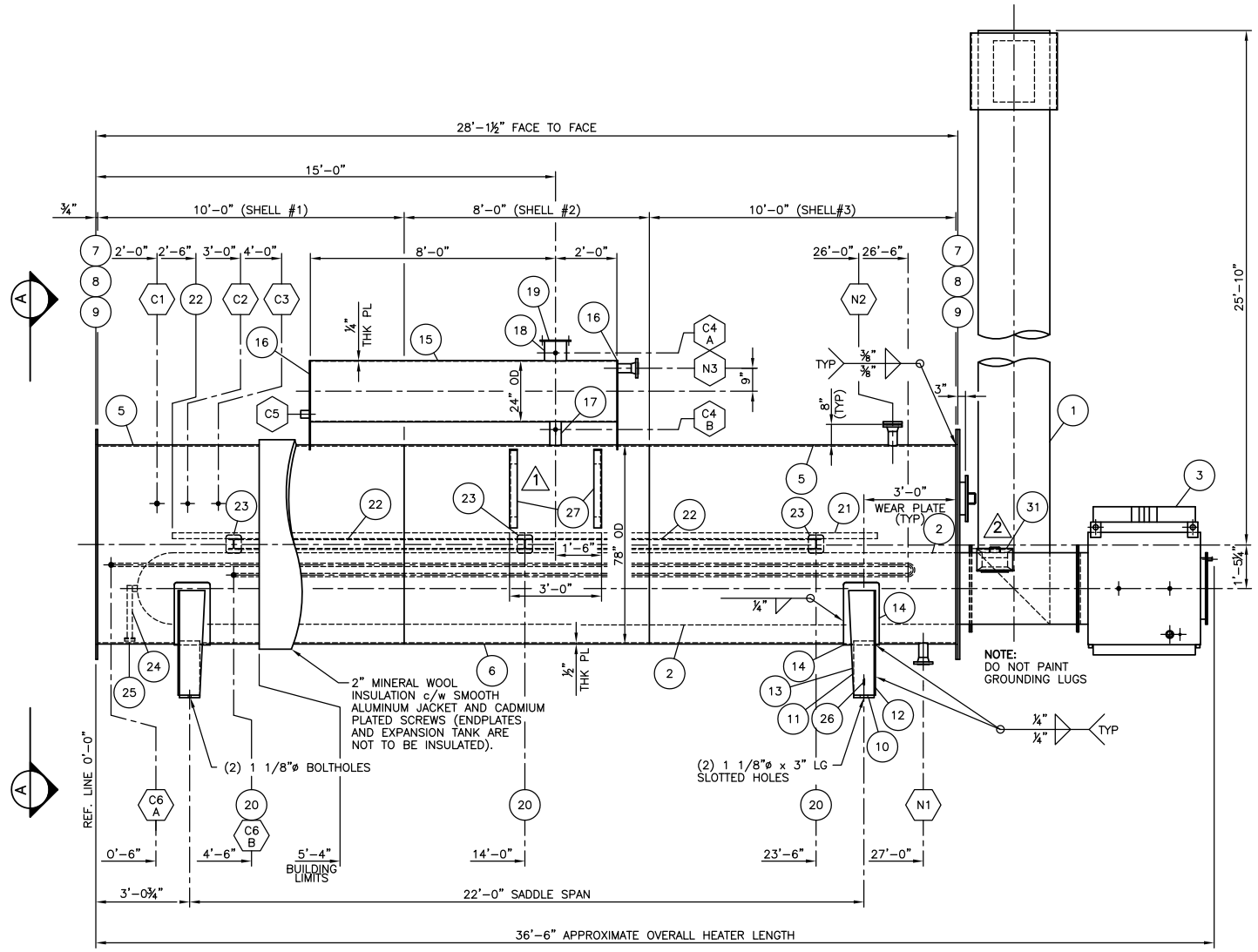
PM–105



FIRETUBE HOLD DOWN DETAIL



END VIEW



BILL OF MATERIALS

MARK	PART	DESCRIPTION	QTY.	MATERIAL
1	STACK	REFER TO DWG #B7330–410 SHT. 2		
2	FIRETUBE	REFER TO DWG #B7330–410 SHT. 2		
3	FLAMECELL	REFER TO DWG #B7330–410 SHT. 3		
4	COIL	REFER TO DWG #B7330–510 SHT. 1		
5	SHELLS #1 & #3	78" OD x 1/2" PL x 10'–0" LG	2	SAG40.21.44W
6	SHELL #2	78" OD x 1/2" PL x 8'–0" LG	1	SAG40.21.44W
7	FLANGE	84" OD x 3/4" PL x 78 1/8" ID	2	SAG40.21.44W
8	GASKET	84" OD x 1/8" THK x 78 1/8" ID GASKET	2	JM–60
9	BOLTING	3/4"ø x 2 1/2" LG CAPSCREWS c/w (1) HEX NUT EACH	192	GR–5
10	BASE PLATE	8" x 1" PL x 5'–10" LG	2	SAG40.21.44W
11	SIDE PLATE	8"/10" x 1/2" PL x 3'–5" LG	4	SAG40.21.44W
12	FACE PLATE	3'–5" x 1/2" PL x 5'–10" LG	2	SAG40.21.44W
13	STIFFENERS	8" x 1/2" PL x 1'–9 1/4" LG	4	SAG40.21.44W
14	WEAR PLATE	1'–2" x 3/8" PL x 7'–9" LG (ROLL TO 78" ID)	2	SAG40.21.44W
15	EXPANSION TANK	24" OD x 1/4" PL x 10'–0" LG	1	SAG40.21.44W
16	TANK END PLATE	24" OD x 3/8" PL x 2'–10 7/8" LG	2	SAG40.21.44W
17	FILL CONNECTION	4" SCH STD SMLS PIPE x 10" LG	1	SA–106B
18	NECK	8" SCH STD SMLS PIPE x 9" LG	1	SA–106B
19	FLANGE	12" OD x 3/4" PL x 8 3/4" ID	1	SAG40.21.44W
20	COIL SUPPORT	W4 x 13# x 6'–4 1/2" LG	3	SAG40.21.50W
21	COIL SLIDES	3" x 3" x 3/8" ANGLE x 23'–0" LG	2	SAG40.21.44W
22	COIL SUPPORT	W4 x 13# x 9'–6" LG (TRIM TO SUIT)	4	SAG40.21.50W
23	WEAR PLATE	6" x 3/8" PL x 7" LG	6	SAG40.21.44W
24	F.T. HOLD DOWN	2" x 1/4" PL x 3'–10" LG (SHOP LOCATE AND FIT)	1	SAG40.21.44W
25	REPAD	4" SQUARE x 1/4" PL (ROLL TO 77 1/4" ID)	2	SAG40.21.44W
26	GROUNDING LUG	2" x 3/8" PL x 2" LG c/w (1) 5/8"ø HOLE	1	SAG40.21.44W
27	PLATFORM SUPP.	3" x 3" x 3/8" ANGLE x 2'–11 1/8" LG	2	SAG40.2144W
28	PLATFORM SUPP.	3" x 3" x 3/8" ANGLE x 5 3/8" LG	2	SAG40.2144W
29	PLATFORM SUPP.	3" SQ x 3/8" PL w/ (1) 9/16"ø HOLE	2	SAG40.2144W
30	PLATFORM SUPP.	3"x 3/8" PL x 3 3/4" LG w/ (1) 9/16"ø HOLE	2	SAG40.2144W
31	MAINT. DOOR	REFER TO B7330–410 SHT. 3 FOR MAINTENANCE DOOR DETAIL		
N1	DRAIN	3" CL. 150 SCH STD RFWN FLG	1	SA–105N
		3" SCH STD SMLS PIPE x 5 7/8" LG	1	SA–106B
N2	FUTURE GLYCOL	3" CL. 150 SCH STD RFWN FLG	1	SA–105N
	RETURN	3" SCH STD SMLS PIPE x 5 7/8" LG	1	SA–106B
		3" CL. 150 RF BLIND FLG	1	SA–105N
		3" CL. 150 x 1/8" THK GASKET	1	NOTE #2
		5/8"ø x 3 3/4" LG STUDS c/w (2) NUTS EACH	4	NOTE #1
N3	DRAIN	3" CL. 150 SCH STD RFWN FLG	1	SA–105N
		3" SCH STD SMLS PIPE x 5 5/8" LG	1	SA–106B
C1	TSHH–4005	1" CL. 3000 NPT FULL CPLG	1	SA–105N
C2	TI–4006	3/4" CL. 3000 NPT FULL CPLG	1	SA–105N
C3	TIT–4007	3/4" CL. 3000 NPT FULL CPLG	1	SA–105N
C4	LG–4000	1/2" CL. 3000 NPT FULL CPLG	2	SA–105N
C5	LSLL–4001	2" CL. 3000 NPT HALF CPLG	1	SA–105N
C6	F.G. PREHEAT	1" CL. 3000 NPT FULL CPLG	2	SA–105N
		1" SCH XH SMLS PIPE x 55'–0" LG (3)	1	SA–106B
		1" CL. 3000 90° SW ELL	4	SA–105N

NOTES:

1) ALL BOLTING TO BE SA–193–B7M AND SA–194–2HM MATERIAL.
2) ALL GASKETS TO BE SPIRAL WOUND 316 SS WITH FLEXIBLE GRAPHITE FILLER AND CARBON STEEL CENTRING RING (GREY STRIPE).
3) HEATER TO HAVE LEFT HAND CONTROLS WHEN VIEWED FROM FLAMECELL END.
4) FLAMECELL IS REMOVABLE.
5) FLAMECELL HOUSING IS REMOVABLE.
6) SANDBLASTING SHALL NOT BE CONDUCTED ON SURFACES THAT ARE LESS THAN 3°F ABOVE DEWPOINT, OR WHEN THE RELATIVE HUMIDITY OF THE AIR IS GREATER THAN 80%.
7) HEATER EXTERIOR TO BE COMMERCIAL SANDBLASTED PER SSPC–SP6.
8) HEATER TO RECEIVE (1) COAT (1.5 mils DFT) INTERTHERM 228.
9) NON–INSULATED PORTIONS TO RECEIVE (1) COAT (1.5 mils DFT) INTERTHERM 228 GREY.
10) STACK TO RECEIVE: SSPC–SP10 WHITE METAL SANDBLAST FOLLOWED BY (2) COATS (0.8 – 1.0 mils DFT) DEVOE HT–8 HIGH HEAT GREY.
11) DOUBLE CPLG(S) TO PROJECT THROUGH INSULATION WHERE REQ'D.
12) SHOP NOTE: "FS" DENOTES FAR SIDE.
13) APPROXIMATE O/A WEIGHT (INCLUDING STACK, FLAMECELL & FIRETUBE) = 43500 lbs (19549 kg).
14) APPROXIMATE OPERATING WEIGHT = 99660 lbs (45205 kg).
15) REFER TO DWG #B7330–410 SHT. 2 FOR FIRETUBE DETAILS.
16) REFER TO DWG #B7330–410 SHT. 3 FOR BURNER DETAILS.
17) REFER TO DWG #B7330–510 SHT. 1 FOR COIL DETAILS.
18) (1) REFER TO DWG #B7330–410 SHT. 4 FOR PLATFORM DETAILS.

NO.	REVISION	BY	CHKD.	DATE
4	REORIENTED ITEM #21	AEB		07/01/05
3	C6 FUEL GAS PREHEAT COIL WAS SCH STD	JC		06/11/16
2	ADDED MAINTENANCE DOOR	KH		06/11/08
1	ADDED PLATFORM SUPPORTS	AB		06/11/08
0	ISSUED FOR CONSTRUCTION	GDL		06/11/02
A	ISSUED FOR APPROVAL	AEB		06/09/27

CUSTOMER REFERENCE: 119–22–00

Presson ENERFLEX

CUSTOMER: BP CANADA ENERGY COMPANY c/o EQUINOX

JOB NO. B7330–40

PROJECT: TWO LAKES 3–3
LSD T.B.A.

TITLE: 4.0 MM BTU/HR INDIRECT FIRED HEATER (H–4001)
78" OD x 28'–0" LG

DRAWN	CHECKED	APPROVED	SCALE	DATE	DRAWING NUMBER
GDL			3/8"=1'–0"	06/09/19	B7330–410 SHT. 1 OF 4 (4)