

GENERAL NOTES

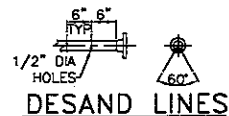
1. QUALITY CONTROL PROGRAM NUMBER: AQP-1317(S)
2. WELDING PROCEDURE REGISTRATION NUMBER: WP1970.2
3. SHELL AND HEAD MATERIAL: SA-516-70N
4. FLANGE MATERIAL: SA-105-N
5. PIPE MATERIAL: SA-106-B
6. PLATE MATERIAL: SA-516-70N/SA-36
7. BOLTING MATERIAL: SA-193-B7/SA-194-2H
8. INTERNAL SANDBLAST: SSPC-SP5 (WHITE)
9. INTERNALLY COAT: DEVOC 253 AS PER MANUFACTURER'S SPECIFICATION
10. EXTERNAL SANDBLAST: SSPC-SP6 (COMMERCIAL)
11. EXTERNAL COATING:
 - ALL AREAS: ONE COAT OF PRIMER
 - NON-INSULATED AREAS: ONE COAT OF INDUSTRIAL ENAMEL (BLACK)
12. INSULATION: 2" THK RIGID URETHANE c/w 0.024" ALUMINUM CLADDING
13. ALL BOLT HOLES TO STRADDLE CENTERLINE
14. ALL OPENINGS TO BE COVERED PRIOR TO SHIPPING
15. ALL OUTSIDE PROJECTIONS ARE TO BE MEASURED ALONG THE CENTERLINE OF THE NOZZLE
16. ALL INSIDE PROJECTIONS ARE TO BE MEASURED ALONG THE SHORTSIDE OF THE NOZZLE
17. ALL REPADS & WEAR PADS SHALL HAVE (1) 1/4" NPT WEEP HOLE
18. ALL REPADS TO BE SEAMLESS (J.E.=1.0)
19. FABRICATION TOLERANCE AS PER BWMI DWG: TOL2002
20. VESSEL TO BE REGISTERED IN ALBERTA
21. VESSEL TO BE SUPPLIED WITH U-STAMP
22. SHIPPING DIMENSIONS: 12'-0" W x 14'-6" H x 42'-0" LG
23. SHIPPING WEIGHT: 22,500 LBS
24. SERIAL NUMBER: 13935

NOZZLE SCHEDULE

MARK	NO. REQ'D	DESCRIPTION	NPS	CLASS	TYPE	PROJECTION		WELD DETAIL	WELD				REPAD	BILL OF MATERIALS ITEM NUMBER
						INSIDE	OUTSIDE		A	B	C	D		
N1	1	INLET	8	150	RFWN	1"	8"	1.4	1/4	-	3/16	-	-	9,10,11,12
N2	1	OUTLET	8	150	RFWN	1"	8"	1.4	1/4	-	3/16	-	-	9,10,11
N3	1	PSV	3	150	RFWN	1"	8"	1.2	1/4	-	-	-	-	13,14
N4	1	LSHH	3	150	RFWN	1"	8"	1.2	1/4	-	-	-	-	13,15,16,17,18,19
N5	1	LSH	3	150	RFWN	1"	8"	1.2	1/4	-	-	-	-	13,15,16,17,18,48
N6	1	LC	3	150	RFWN	1"	8"	1.2	1/4	-	-	-	-	13,15,16,17,20,48
N7	1	WATER-OUT	3	150	RFWN	16"	6"	1.2	5/16	-	-	-	-	21,22,23
N8A/B	2	DESAND LINE	2	150	RFWN	8"	14"	1.2	5/16	-	-	-	-	15,16,24,25,26,27,28,29,31,32,33
N9A/B/C	3	CLEAN-OUT	3	150	RFWN	FLUSH	6"	1.3	1/4	-	-	-	-	13,15,16,17,34,35,36,49
N10	1	DRAIN	3	150	RFWN	FLUSH	6"	1.3	1/4	-	-	-	-	13,34
C1A/B	2	LG	3/4	6000	CPLG	1/4"	-	2	1/4	-	-	-	-	37
C2	1	TI	3/4	6000	CPLG	1/4"	-	2	1/4	-	-	-	-	38
C3	1	PI	1/2	6000	CPLG	1/4"	-	2	1/4	-	-	-	-	39
M1	1	MANWAY	20	150	RFWN	1"	8"	1.4	3/8	-	1/4	-	-	40,41,42,43,44,45,46,47

BILL OF MATERIALS

ITEM	REQ'D	PART	DESCRIPTION	MATERIAL	WEIGHT
1	4	SHELL	3/8" THK x 96" W ROLL TO 96" ID (CIRC=25'-4" LG)	SA-516-70N	-
2	2	HEAD	3/8" THK (0.3130" MIN) x 96" ID 2:1 S.E.	SA-516-70N	-
3	2	SADDLE	14" x 3/8" THK x 9'-4 3/8" LG, ROLL TO 96 3/4" ID	SA-516-70N	-
4	4	SADDLE	10" x 3/8" FLATBAR x 3'-6 3/16" LG	SA-36	-
5	4	SADDLE	3" x 3/8" FLATBAR x 2'-0 1/8" LG	SA-36	-
6	2	SADDLE	3/8" THK x 3'-6 3/16" W x 7'-1" LG (SEE DETAIL)	SA-36	-
7	1	NAMEPLATE	6" x 8" NAMEPLATE BRACKET	SA-36	-
8	1	SKID	SKID (SEE DWG B591-2 FOR DETAIL)	-	-
9	2	N1,N2	8" x CLASS 150 RFWN FLG SCH XH	SA-105-N	-
10	2	N1,N2	REPAD: 12" OD x 1/4" THK, ROLL TO 96 3/4" ID	SA-516-70N	-
11	2	N1,N2	8" PIPE SCH XH x 5 5/8" LG (BOE,ROE)	SA-106-B	-
12	1	N1	3/8" THK DEFLECTOR PLATE	SA-36	-
13	20	N3,N5,N9	3" x CLASS 150 RFWN FLG SCH XH	SA-105-N	-
14	1	N3	3" PIPE SCH XH x 6 3/4" LG (BOE,ROE)	SA-106-B	-
15	64	N4,N5,N6,N8,N9	5/8" DIA x 3 1/2" STUD	SA-193-B7	-
16	128	N4,N5,N6,N8,N9	5/8" DIA NUT	SA-194-2H	-
17	12	N4,N5,N6,N8,N9	3" x CLASS 150 RF FLEX GASKET	304SS	-
18	1	N4	3" x CLASS 150 RF HUB BLIND, TAPPED TO 2" NPT	SA-105-N	-
19	2	N4,N5	3" PIPE SCH XH x 7 5/8" LG (BOE,ROE)	SA-106-B	-
20	1	N6	3" PIPE SCH XH x 7 3/8" LG (BOE,ROE)	SA-106-B	-
21	1	N7	3" x CLASS 150 RFWN FLG SCH 160	SA-105-N	-
22	1	N7	3" PIPE SCH 160 x 1'-7 5/8" LG (BOE,ROE)	SA-106-B	-
23	1	N7	3" VORTEX ASSEMBLY	SA-36	-
24	4	N8	2" x CLASS 150 RFWN FLG SCH 160	SA-105-N	-
25	4	N8	2" x CLASS 150 RFWN FLG SCH XH	SA-105-N	-
26	5	N8	2" x CLASS 150 RF FLEX GASKET	304SS	-
27	2	N8	2" PIPE SCH 160 x 1'-8 1/8" LG (BBE)	SA-106-B	-
28	2	N8	2" PIPE SCH XH x 15'-0" LG (BBE) c/w HOLES (SEE DETAIL)	SA-106-B	-
29	1	N8B	2" PIPE SCH XH x 15'-0" LG (BBE)	SA-106-B	-
30	2	N8	2" SCH XH WELD CAPS	SA-234-WPB	-
31	3	N8	2" x 3/8" SS FLATBAR x 4" LG c/w HOLES FOR U-BOLT	SA-240-TP316	-
32	3	N8	2" x 3/8" SS FLATBAR x 8 7/8" LG	SA-240-TP316	-
33	3	N8	2" PIPE U-BOLT (STAINLESS)	SA-240-TP316	-
34	4	N9,N10	3" PIPE SCH XH x 3 3/4" LG (BOE,COE)	SA-106-B	-
35	3	N9	3" PIPE SCH XH x 1'-9 1/2" LG (BBE)	SA-106-B	-
36	3	N9	3" PIPE SCH XH x 6" LG (BBE)	SA-106-B	-
37	2	C1	3/4" x CLASS 6000 x 4" LG FULL CPLG	SA-105-N	-
38	1	C2	3/4" x CLASS 6000 FULL CPLG	SA-105-N	-
39	1	C3	1/2" x CLASS 6000 FULL CPLG	SA-105-N	-
40	1	M1	20" x CLASS 150 RFWN FLG SCH XH	SA-105-N	-
41	1	M1	20" x CLASS 150 RF BLIND FLG	SA-105-N	-
42	1	M1	20" x CLASS 150 RF FLEX GASKET	304SS	-
43	1	M1	20" x CLASS 150 DAVIT ARM	-	-
44	1	M1	20" PIPE SCH XH x 4 3/8" LG (BOE,ROE)	SA-106-B	-
45	1	M1	REPAD: 28" OD x 3/8" THK, DISHED TO FIT HEAD	SA-516-70N	-
46	20	M1	1 1/8" DIA x 6 1/4" LG STUD	SA-193-B7	-
47	40	M1	1 1/8" DIA NUT	SA-194-2H	-
48	2	N5,N6	3" x CLASS 150 RF BLIND FLG, TAPPED TO 1" NPT	SA-105-N	-
49	3	N9	3" x 90° LR BW ELBOW SCH XH	SA-234-WPB	-



WEB PLATE DETAIL

SADDLE DETAIL

ELEVATION VIEW

ORIENTATION VIEW A-A

DESIGN SPECIFICATIONS

DESIGN & FABRICATE TO: 2004 EDITION ASME BOILER & PRESSURE VESSEL CODE SEC VIII, DIV 1	
DESIGN PRESSURE & TEMPERATURE: 100 PSI @ 200°F	
MINIMUM DESIGN METAL TEMP: -20°F @ 100 PSI	
IMPACT TESTS: EXEMPT AS PER UG-20(f)(1-5)	
RADIOGRAPHY: RT-2 AS PER UW-11(a)(5)(b) (REQUESTED)	
POST WELD HEAT TREATMENT: NONE AS PER UCS-56	
HYDROSTATIC TEST PRESSURE: 130 PSIG. PREHEAT: 50°F	
CORROSION ALLOWANCE: 1/16" MAWP: 100 PSI @ 200°F	
HEAD THK. MIN.: 0.3130" VOLUME: 1761 Cu Ft. 49.9 Cum	
WEIGHT EMPTY: 18,700 lbs WEIGHT FULL: 128,500 lbs	

CITY OF MEDICINE HAT

SLUG CATCHER PACKAGE	
96" ID x 32'-0" S/S x 100 PSI MAWP	
DATE: 11/09/05	SHEET: 1 OF 5
SCALE: N.T.S.	JOB NO.: B591
DRAWN BY: DSG	SIZE: D
PURCHASE ORDER: 93915 OG	DRAWING NO.: B591-1
LOCATION: 08-35-21-07 W4M	REV. 2
CRN DWG: BWM-157-05 R1	
CRN NUMBER: T5548.2	APP'D JAM

BILTON

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WELD DETAIL NUMBER	REGISTERED WELDING PROCEDURE NUMBER			BACKWELD/GOUGE
	ROOT	HOT PASS	FILL & CAP	
1,2,3,5	BWM-19 (GMAW)	BWM-19 (GMAW)	BWM-19 (GMAW)	N/A
1 (6" & 20" XH)	BWM-1 (GMAW)	BWM-1 (SAW)	BWM-1 (SAW)	N/A
4	BWM-19 (GMAW)	BWM-3 (SAW)	BWM-3 (SAW)	N/A
5	N/A	N/A	BWM-18 (SAW)	N/A

1	WELD NECK FLANGE	2	NOZZLE NECK	3	NOZZLE NECK	4	NOZZLE NECK
	c=75(1/16) n=1/8(1/16)	EXPLODED HEDGE EDGE SHOWN, CHARTERED AS PER ISO-7541 c=40(1/16) n=1/8(1/16) n=1/16(1/16)	EXPLODED HEDGE EDGE SHOWN, CHARTERED AS PER ISO-7541 c=40(1/16) n=1/8(1/16) n=1/16(1/16)	EXPLODED HEDGE EDGE SHOWN, CHARTERED AS PER ISO-7541 c=40(1/16) n=1/8(1/16) n=1/16(1/16)			

FILE PATH: \\MAINDATA\CAD\TANKS\B500-B599\B591-2

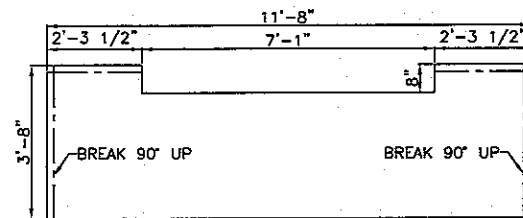


PLATE DETAIL #1

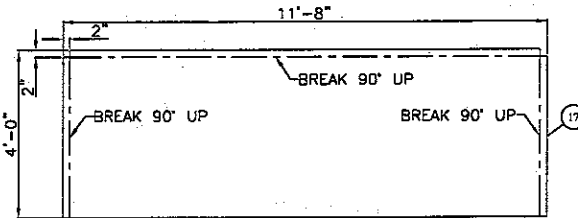
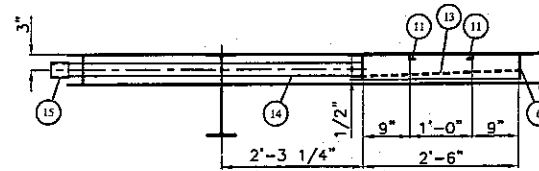


PLATE DETAIL #2

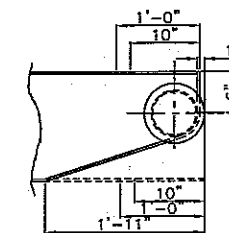


FLOOR DRAIN DETAIL

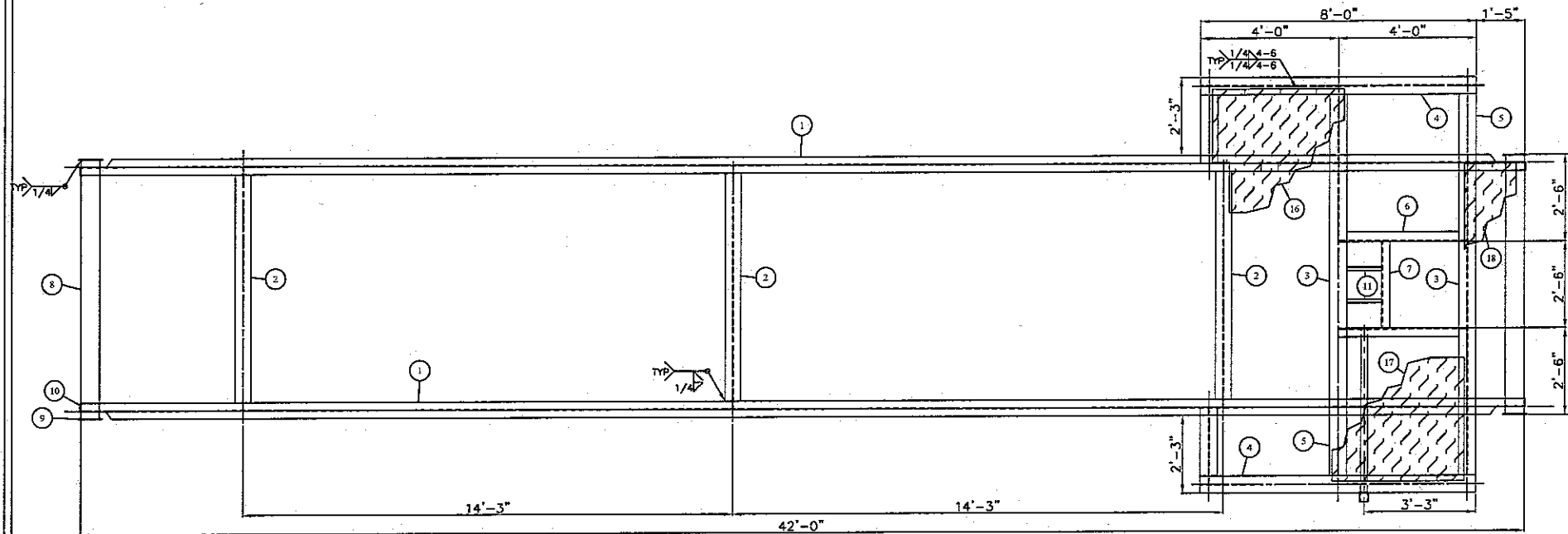
BILL OF MATERIALS					
ITEM	REQ'D	PART	DESCRIPTION	MATERIAL	WEIGHT
1	2	MAIN	W16@26# x 42'-0" LG (ROUGH CUT TO 42'-2")	SA-36	2200#
2	3	CROSSMEM	W16@26# x 7'-0 1/4" LG (COPE TO SUIT)	SA-36	550#
3	2	CROSSMEM	W6@15# x 7'-0 1/4" LG (COPE TO SUIT)	SA-36	210#
4	2	SUPPORT	W6@15# x 8'-0" LG	SA-36	240#
5	6	SUPPORT	W6@15# x 2'-2 1/2" LG (COPE TO SUIT)	SA-36	200#
6	2	SUPPORT	5" x 3" x 3/8" ANGLE x 3'-8 3/4" LG (COPE TO SUIT)	SA-36	75#
7	1	SUPPORT	5" x 3" x 3/8" ANGLE x 2'-6" LG	SA-36	25#
8	2	PULLBAR	6" PIPE SCH XH x 7'-5 1/2" LG	SA-106-B	200#
9	4	PULLCAP	1/4" THK x 8 1/2" OD	SA-36	10#
10	4	CAP	3/8" THK x 2 1/2" FLATBAR (CUT TO SUIT)	SA-36	10#
11	2	FLOOR DRAIN	1 1/4" x 1/4" ANGLE x 1'-0" LG	SA-36	4#
12	1	FLOOR DRAIN	1" x 1/8" BAR GRATE x 1'-0" W x 1'-0" LG	SA-36	5#
13	1	FLOOR DRAIN	1/4" THK PLATE x 1'-2 3/4" W x 2'-6" LG	SA-36	30#
14	1	FLOOR DRAIN	2" PIPE SCH STD x 4'-10" LG (COE,TOE)	SA-106-B	20#
15	1	FLOOR DRAIN	2" x CLASS 3000 FULL CPLG	SA-105-N	2#
16	1	FLOOR	3/16" THK CHECKERPLATE x 3'-8" W x 11'-8" LG (SEE DETAIL #1)	SA-36	305#
17	1	FLOOR	3/16" THK CHECKERPLATE x 4'-0" W x 11'-8" LG (SEE DETAIL #2)	SA-36	375#
18	1	FLOOR	3/16" THK CHECKERPLATE x 1'-6" W x 7'-0" LG	SA-36	85#

GENERAL NOTES

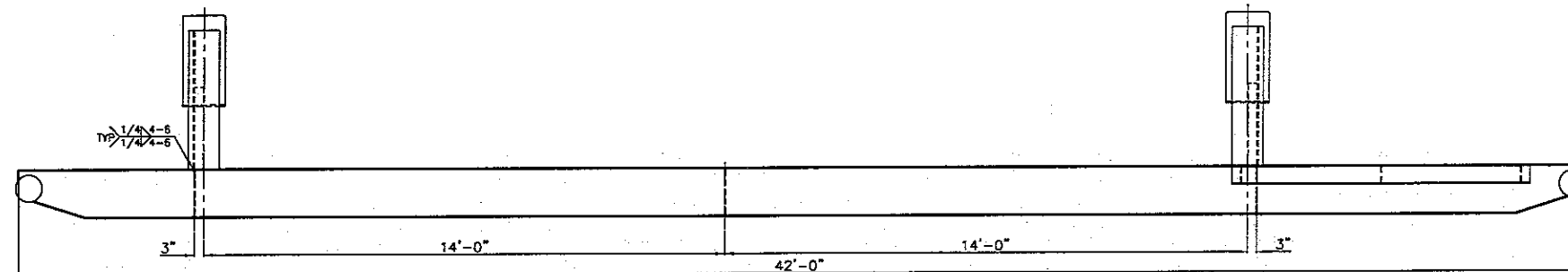
1. PRIME: ONE (1) COAT PRIMER
2. PAINT: ONE (1) COAT INDUSTRIAL ENAMEL (WHITE)
3. INSULATION: 1 1/2" THK SPRAY FOAM U/S FLOOR
4. FLOOR TO BE c/w 2" HIGH DRIP LIP & FLOOR DRAIN
5. ALL WELDS FULL PENETRATION, 1/4" FILLETS (GTSM)
6. APPROXIMATE WEIGHT: 4,500 LBS (SKID ONLY)



COPE DETAIL



PLAN VIEW



ELEVATION VIEW

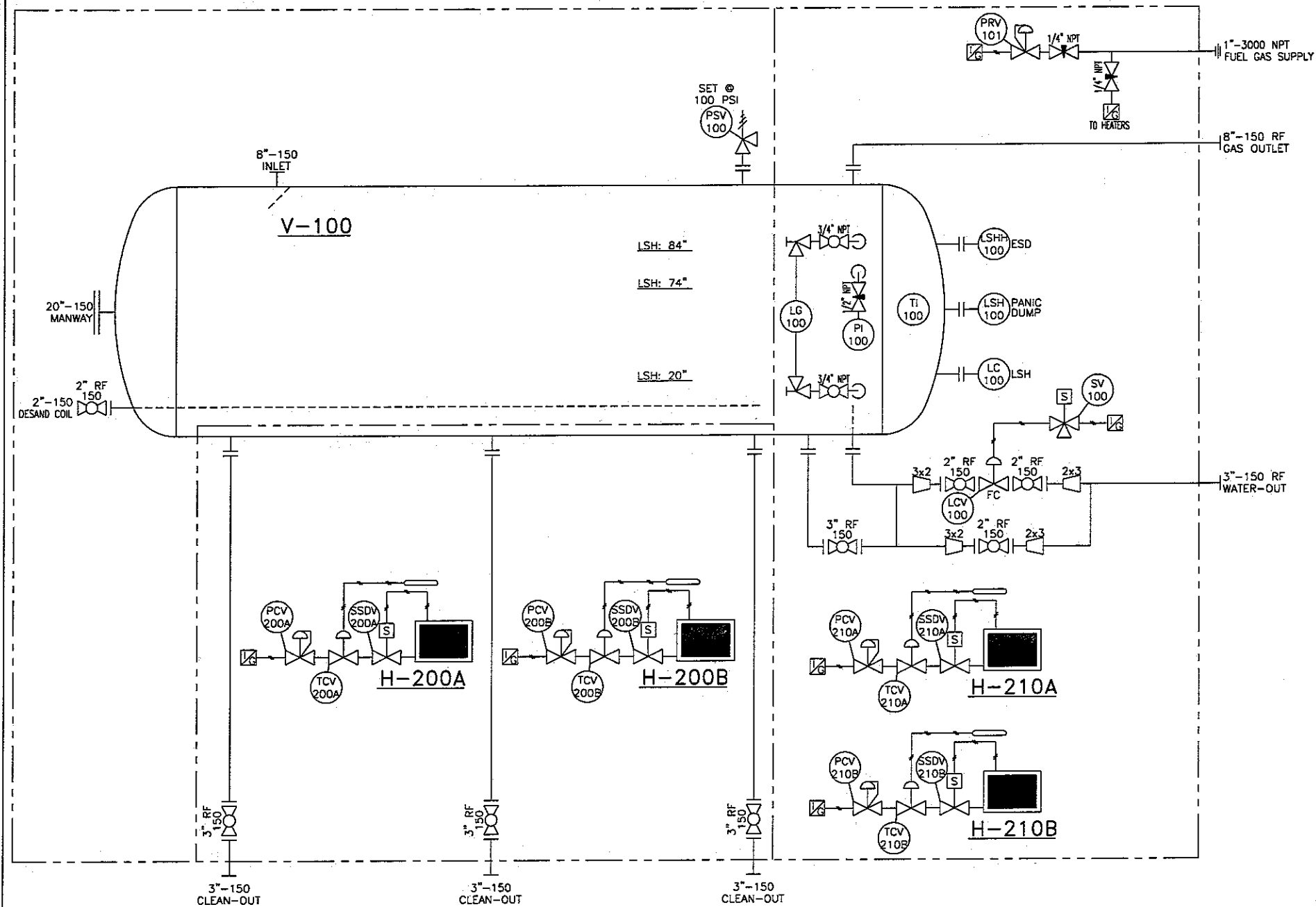
REV. NO.	DATE	REVISION	BY	APP'D
A	11/22/05	ISSUED FOR APPROVAL	DSG	
B	12/12/05	REVISED AS PER CLIENT REQUEST	DSG	
0	12/12/05	ISSUED FOR FABRICATION	DSG	JAM
1	02/27/06	AS BUILT DRAWING	DSG	JAM

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CITY OF MEDICINE HAT			
SLUG CATCHER PACKAGE			
SKID DETAILS			
DATE: 11/16/05	SHEET: 2 OF 5	JOB NO.:	SIZE
SCALE: N.T.S.		B591	D
DRAWN BY: DSG		DRAWING NO.:	REV.
PURCHASE ORDER: 93915 OG		B591-2	1
LOCATION: 08-35-21-07 W4M			
APP'D BY: JAM			

FILE PATH: \\MAINDATA\CAD\TANKS\B500-B599\B591-3



V-100
SLUG CATCHER
96" ID x 32'-0" S/S
100 PSI @ 200°F
-20°F MDMT
C.A.: 1/16"
SERIAL #: 13935
CRN: 5548.2
BUILT: 2005

H-200A/B
CATADYNE BX-18x24
DUTY: 16,000 BTU/HR
110 VOLT, NATURAL GAS

H-210A/B
CATADYNE BX-18x24
DUTY: 16,000 BTU/HR
110 VOLT, NATURAL GAS

REV. NO.	DATE	REVISION	BY	APP'D
A	11/22/05	ISSUED FOR APPROVAL	DSG	
B	12/12/05	REVISED AS PER CLIENT REQUEST	DSG	
C	12/12/05	ISSUED FOR FABRICATION	DSG	JAM
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CITY OF MEDICINE HAT			
SLUG CATCHER PACKAGE			
P&ID			
DATE: 11/15/05	SHEET: 3	OF 5	
SCALE: N.T.S.	JOB NO.:	B591	SIZE D
DRAWN BY: DSG	PURCHASE ORDER: 93915 06	DRAWING NO.:	REV.
LOCATION: 08-35-21-07 W4M	APP'D BY: JAM	B591-3	1

INSTRUMENTATION

TAG	REQ'D	DESCRIPTION
H-200A/B	2	18" x 24" CATADYNE HEATER 110 VOLT NATURAL GAS c/w VENT HOODS
H-210A/B	2	18" x 24" CATADYNE HEATER 110 VOLT NATURAL GAS c/w VENT HOODS
LG-100	3	PENBERTHY 2RL5 SIGHT GLASS c/w (1 SET) 3/4" NPT 330J GAUGE VALVES (SWEET)
LCV-100	1	2" x CLASS 150 FISHER D4 LEVEL CONTROL VALVE, 3/4" ORIFICE (FAIL CLOSED)
LC/LSH-100	2	1" NPT LIQUIPHANT T FTL51-TGN2CB4E7A LEVEL LIMIT SWITCH
LSHH-100	1	2" NPT SOR 1510C LEVEL SWITCH (ELECTRIC) (SWEET)
PI-100	1	4" FACE 0-150 PSI WIKA PRESSURE INDICATOR
PRV-101	1	FISHER 67CFR 5-35 PSI PRESSURE REGULATOR
PSV-100	1	FARRIS 3" x 4" CLASS 150 RF 26KA10-120/00 RELIEF VALVE, SET @ 100 PSI
SV-100	1	ASCO EF8320G200 24VDC 3 WAY SOLENOID VALVE
TI-100	1	3" FACE, -20 to 200°F TRENCO DUAL SCALE TEMP. INDICATOR c/w 3/4" x 4" LG SS THERMOWELL

PIPING

ITEM	REQ'D	DESCRIPTION	MATERIAL
1	4	3" x CLASS 150 RF RP BALL VALVE	SA-105-N
2	5	2" x CLASS 150 RF RP BALL VALVE	SA-105-N
3	2	3/4" x CLASS 3000 BALL VALVE	SA-105-N
4	1	1/2" x CLASS 6000 MALE/FEMALE NEEDLE VALVE	SA-105-N
5	2	1/4" x CLASS 6000 MALE/FEMALE NEEDLE VALVE	SA-105-N

GENERAL NOTES:

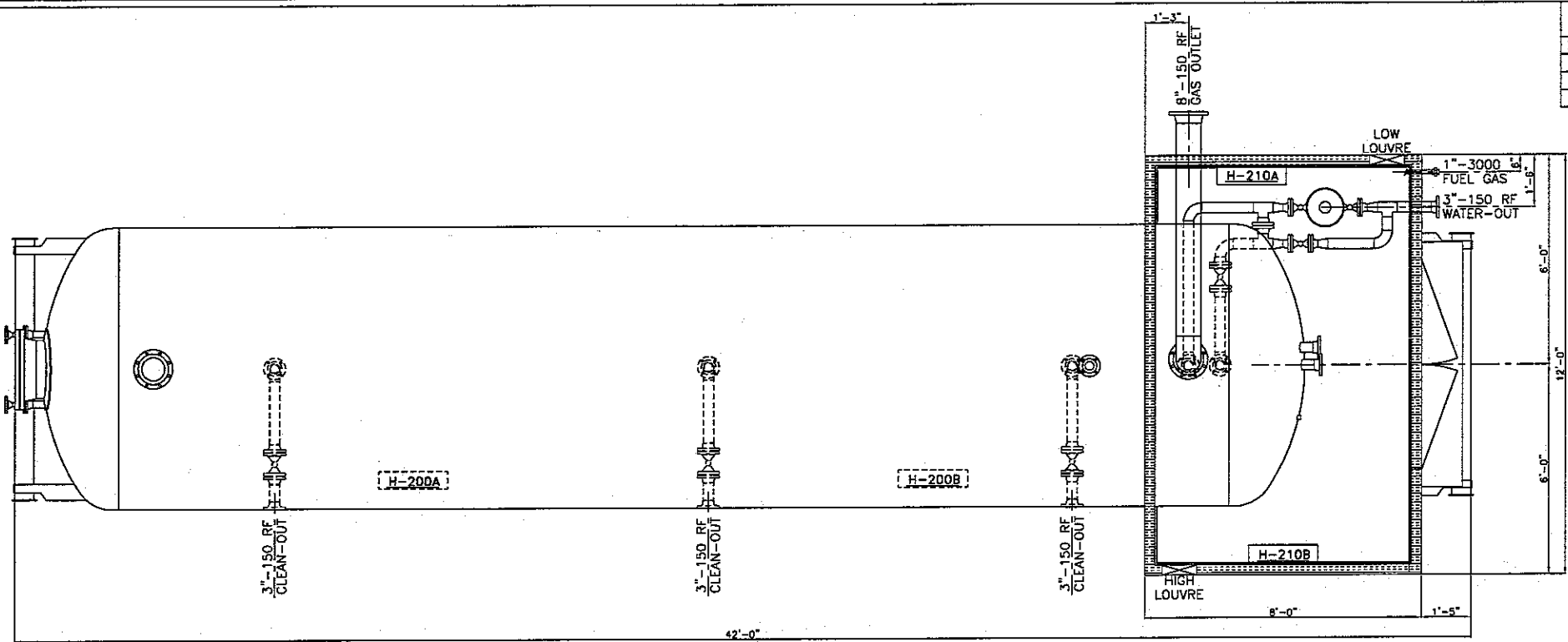
BUILDING DETAILS:

1. PIPING DESIGNED & FABRICATED TO ASME B31.3
2. TUBING MATERIAL: 304SS WELDED c/w CARBON STEEL SWAGelok FITTINGS
3. PIPE MATERIAL: SA-106-B
4. FLANGE MATERIAL: SA-105-N
5. BOLTING MATERIAL: SA-193-B7/SA-194-2H
6. ALL THREADED FITTINGS SHALL BE 2000#
7. ALL INSTRUMENTS SHALL BE IDENTIFIED WITH STAINLESS STEEL TAGS
8. 1" XH THREADED PIPING: C.A. = 1.0 mm
9. ALL TUBING - 0.035" 304SS ERW
10. FUNCTION TEST SHALL BE PERFORMED ON ALL INSTRUMENTS
11. DRAIN ALL WATER FROM ALL INSTRUMENTS
12. VENT ALL INSTRUMENTS O/S OF BUILDING

ELECTRICAL DETAILS:

1. (2) FIBREGLASS JB c/w TERMINALS
2. (1) INTERIOR CLASS 1 ZONE 1 INCANDESCENT CEILING MOUNT FIXTURE
3. (1) EXTERIOR CLASS 1 ZONE 1 INCANDESCENT FIXTURE
4. (1) ELECTRICAL SWITCH FOR LIGHTS
5. (2) CATADYNE CONNECTIONS c/w ON/OFF SWITCH & INDICATING LIGHT
6. (1) RECEPTACLE
7. (2) DISCRETE CONNECTIONS FOR LEVEL SWITCHES

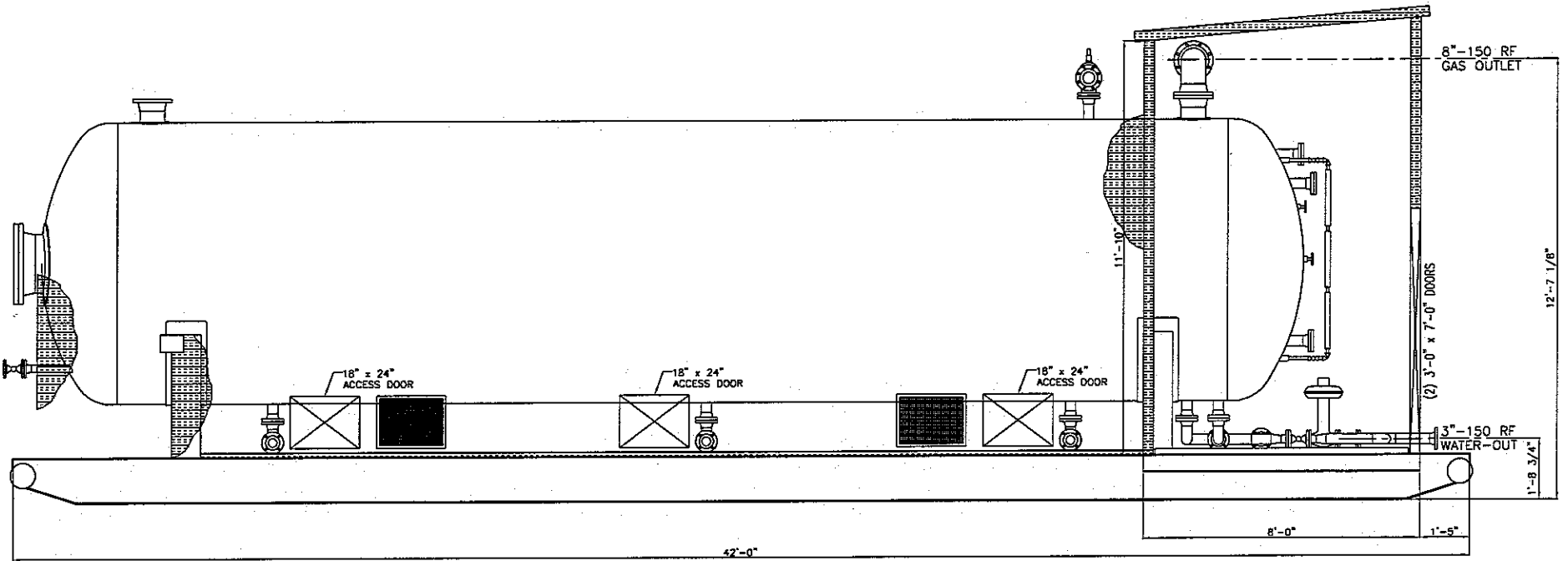
BILL OF MATERIALS					
ITEM	REQ'D	PART	DESCRIPTION	MATERIAL	WEIGHT
1	12	INSULATION	2" x 45" x 16'-2" LG RIGID URETH. CORR & STUCCO EMBOSS ALUM ONE SIDE (CURFS)	—	—
2	2	INSULATION	2" x 45" x 10'-0" LG RIGID URETH. CORR & STUCCO EMBOSS ALUM ONE SIDE	—	—
3	4	INSULATION	2" x 45" x 28'-0" LG RIGID URETH. CORR & STUCCO EMBOSS ALUM BOTH SIDES	—	—



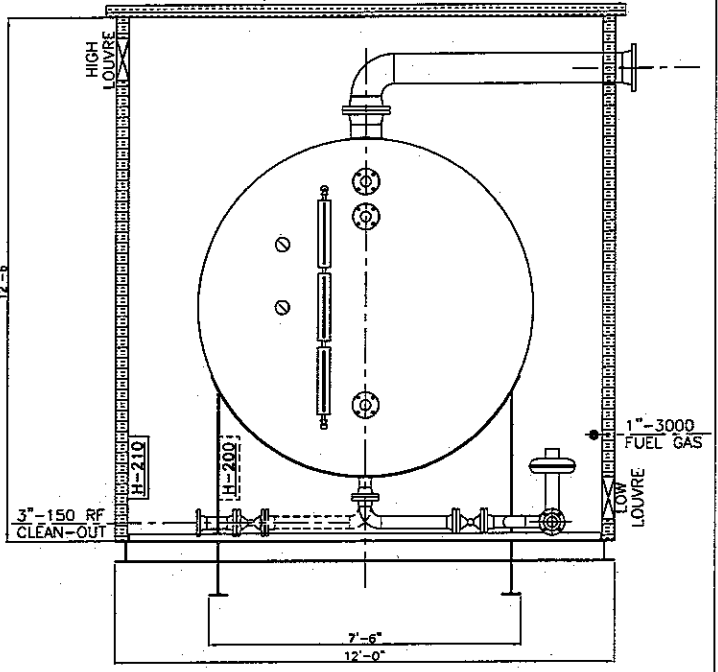
PLAN VIEW

BUILDING DETAILS

- ROOF:
 - EXTERIOR: 22 Ga GALVANIZED 75-500 (NATURAL)
 - INTERIOR: 24 Ga FLUTED ALUMINUM
 - INSULATION: R-12 FIBREGLASS
 - VAPOUR: 6 MILL POLY
 - TRIM COLOR: GALVANIZED (NATURAL)
- WALLS:
 - EXTERIOR: 22 Ga GALVANIZED 75-500 (NATURAL)
 - INTERIOR: 24 Ga FLUTED ALUMINUM
 - INSULATION: R-12 FIBREGLASS
 - VAPOUR: 6 MILL POLY
 - TRIM COLOR: GALVANIZED (NATURAL)
- (2) 3'-0" x 7'-0" INSULATED MAN DOOR IN 12'-6" PANEL c/w
 - HYDRAULIC CLOSURES
 - PANIC HARDWARE & LOCK SET
 - SINGLE GLAZED FIXED I.W.G GLAZING WINDOWS
 - WEATHERSTRIPPING, THRESHOLD & CHECK CHAIN
- (2) 12" x 12" LOUVRES c/w SLIDE CLOSURE



ELEVATION VIEW



ORIENTATION VIEW

REV. NO.	DATE	REVISION	BY	APP'D
A	11/22/05	ISSUED FOR APPROVAL	DSG	
B	12/12/05	REVISED AS PER CLIENT REQUEST	DSG	
0	12/12/05	ISSUED FOR FABRICATION	DSG	JAM
1	02/27/06	AS BUILT DRAWING	DSG	JAM

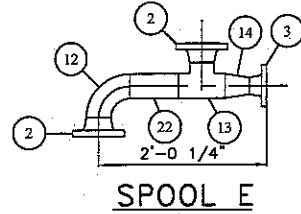
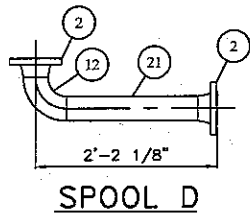
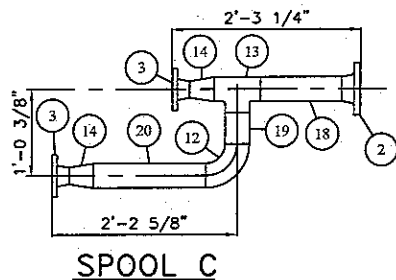
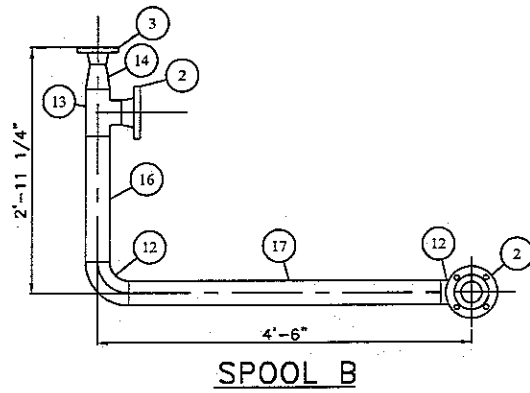
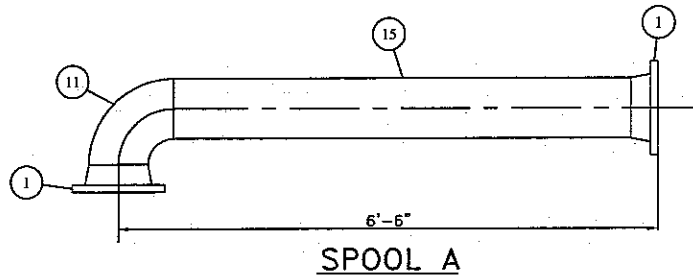
BILTON
Welding & Manufacturing Ltd.

BOX 6106
5815 37 Street
INNISFAIR, AB
CANADA
403-227-7799
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FAX 227-7796

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CITY OF MEDICINE HAT			
SLUG CATCHER PACKAGE GENERAL ARRANGEMENT			
DATE: 11/17/05	SHEET: 4 OF 5	JOB NO.: B591	SIZE D
SCALE: N.T.S.		DRAWN BY: DSG	
PURCHASE ORDER: 93915 OG		DRAWING NO.: B591-4	REV. 1
LOCATION: 08-35-21-07 W4M		APP'D BY: JAM	

FILE: PATH\\MINDATA\\CAD\\TANKS\\B500-B599\\B591-5



BILL OF MATERIALS

ITEM	REQ'D	PART	DESCRIPTION	MATERIAL	WEIGHT
1	2	-	8" x CLASS 150 RFWN FLG SCH STD	SA-105-N	-
2	7	-	3" x CLASS 150 RFWN FLG SCH XH	SA-105-N	-
3	4	-	2" x CLASS 150 RFWN FLG SCH XH	SA-105-N	-
4	1	-	8" x CLASS 150 RF FLEX GASKET	304SS	-
5	6	-	3" x CLASS 150 RF FLEX GASKET	304SS	-
6	6	-	2" x CLASS 150 RF FLEX GASKET	304SS	-
7	8	-	3/4" DIA x 4 1/4" LG STUD	SA-193-B7	-
8	16	-	3/4" DIA NUT	SA-194-2H	-
9	48	-	5/8" DIA x 3 1/2" LG STUD	SA-193-B7	-
10	96	-	5/8" DIA NUT	SA-194-2H	-
11	1	-	8" x 90° SR BW ELBOW SCH STD	SA-234-WPB	-
12	5	-	3" x 90° LR BW ELBOW SCH XH	SA-234-WPB	-
13	3	-	3" TEE SCH XH	SA-234-WPB	-
14	4	-	3" x 2" RED CONC SCH XH	SA-234-WPB	-
15	1	-	8" PIPE SCH STD x 5'-5 3/4" LG (BBE)	SA-106-B	-
16	1	-	3" PIPE SCH XH x 1'-5 1/2" LG (BBE)	SA-106-B	-
17	1	-	3" PIPE SCH XH x 3'-8 3/4" LG (BBE)	SA-106-B	-
18	1	-	3" PIPE SCH XH x 11 1/4" LG (BBE)	SA-106-B	-
19	1	-	3" PIPE SCH XH x 4 1/4" LG (BBE)	SA-106-B	-
20	1	-	3" PIPE SCH XH x 1'-3 3/4" LG (BBE)	SA-106-B	-
21	1	-	3" PIPE SCH XH x 1'-6 5/8" LG (BBE)	SA-106-B	-
22	1	-	3" PIPE SCH XH x 6 1/2" LG (BBE)	SA-106-B	-

GENERAL NOTES

- BUILT AS PER ASME B31.3
- DESIGN PRESSURE 100 PSI @ 200°F
MDMT: -20°F
C.A.: 1/8"
- IMPACT TESTS EXEMPT AS PER 323.2.2A
- FLANGE MATERIAL: SA-105-N
- WELDED FITTING MATERIAL: SA-234-WPB
- PIPE MATERIAL: SA-106-B
- BOLTING MATERIAL: SA-193-B7/SA-194-2H
- EXTERNAL SANDBLAST: SSPC-SP6 (COMMERCIAL)
- EXTERNAL COATING: ONE COAT PRIMER
ONE COAT INDUSTRIAL ENAMEL (BLACK)
- ALL BOLT HOLES TO STRADDLE CENTERLINE
- FABRICATION TOLERANCES AS PER BILTON DWG#: TOL2002
- WELD PROCEDURE: BWM-019

LINE DESIGNATION CHART

LINE	PROCESS	DESIGN PRESS. (kPa)	DESIGN TEMP. (°C)	TEST PRESS. (kPa)	MATERIAL & GRADE	NPS & SCHEDULE	FLANGE CLASS	RT (%)	TEST MEDIUM
A	GAS OUTLET	1965	-29/38	2948	SA-106-B SA-105-N SA-234-WPB	8" STD	150	10	WATER
B,C	PUMP-OUT	1965	-29/38	2948	SA-106-B SA-105-N SA-234-WPB	3" XH 2" XH	150	10	WATER
D,E	DRAIN	1965	-29/38	2948	SA-106-B SA-105-N SA-234-WPB	3" XH 2" XH	150	10	WATER

REV. NO.	DATE	REVISION	BY	APP'D
A	12/12/05	ISSUED FOR APPROVAL	DSG	JAM
0	12/12/05	ISSUED FOR FABRICATION	DSG	JAM
1	12/28/05	DECREASED RADIOGRAPHY FROM 100% TO 10%	JAM	JAM
2	02/27/06	AS BUILT DRAWING	DSG	JAM

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CITY OF MEDICINE HAT

SLUG CATCHER PACKAGE PIPE SPOOLS			
DATE: 12/12/05	SHEET: 5 OF 5	JOB NO.:	SIZE
SCALE: N.T.S.		B591	D
DRAWN BY: DSG		PURCHASE ORDER: 93915 OG	
LOCATION: 08-35-21-07 W4M		DRAWING NO.:	REV.
APP'D BY: JAM		B591-5	2