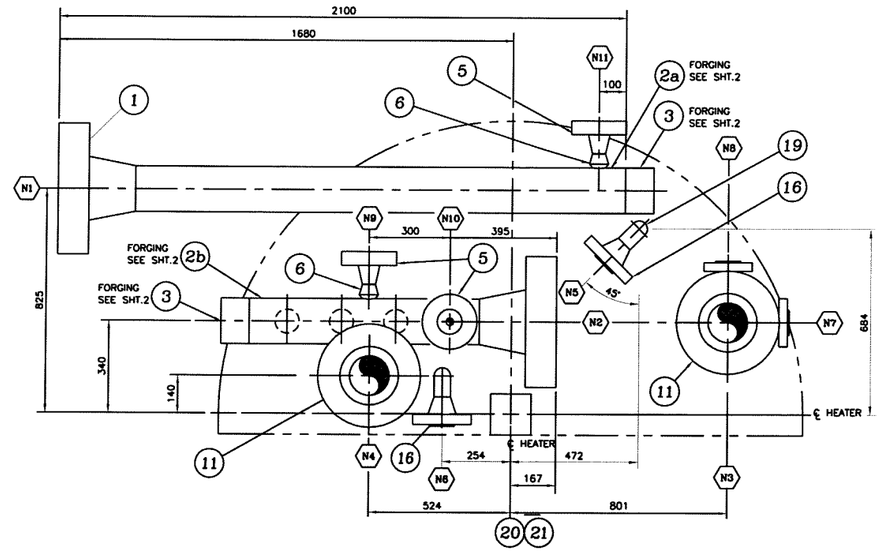
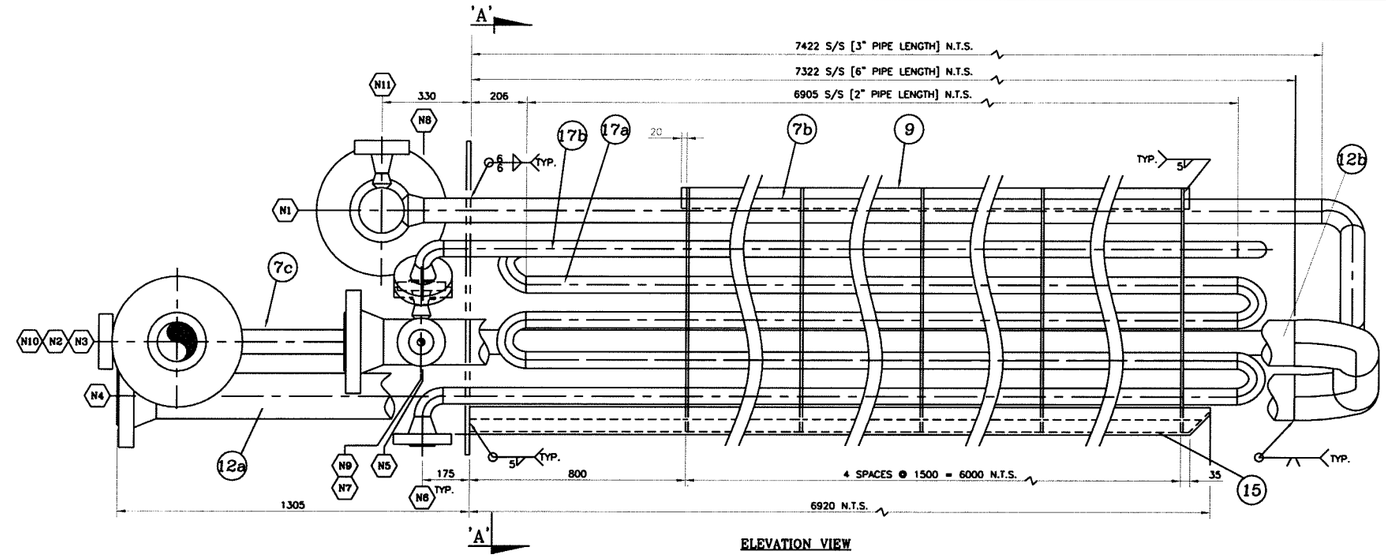
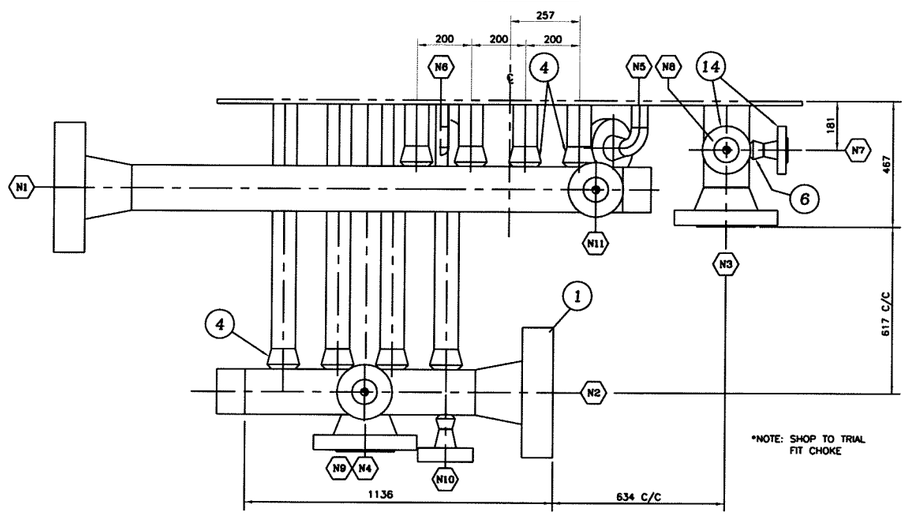


FRONT VIEW

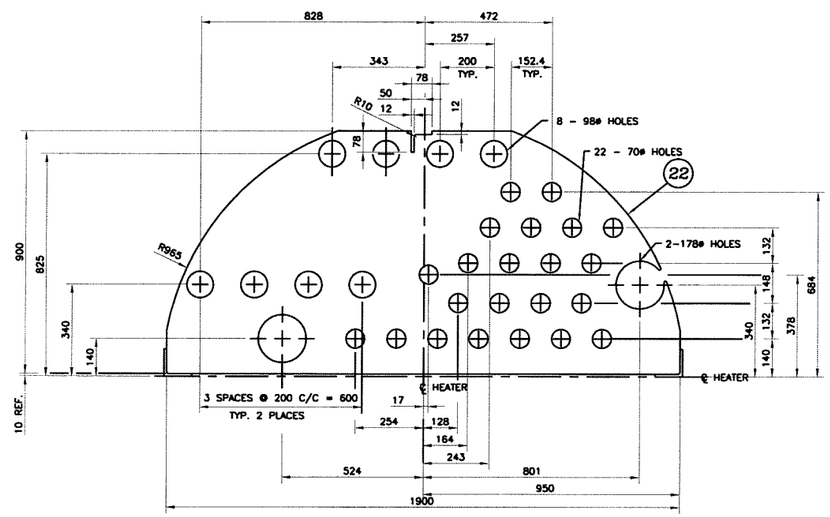


ELEVATION VIEW



*NOTE: SHOP TO TRIAL FIT CHOKE

PLAN VIEW



BUNDLE SUPPORT
1:10

CODE ASME/ANSI B31.3 2006
COIL NUMBER 1 (MAX CE ≤ 0.45)
SIZE 6"/3" SCH. SEE SHT.2/XXH NOM. WALL 0.875"/0.600" ANSI 2500#
PIPE SA-350-LF2-Q1/SA-333-Q1.6 FITTINGS SA-420-WPL6 FLANGES SA-350-LF2
DESIGN 5294 psig @ 212 °F. MDMT -20 °F. 0.106" C.A.
DESIGN 36500 kPag @ 100 °C. MDMT -29 °C. 2.69mm C.A.
HYDROTEST PRESSURE (1.5 x D.P. x S-hydro/S-design) 7941 psig 54751 kPag
RADIOGRAPHY 100% PWHT 1 HOUR @ 1150 ±50°F
WETTED TUBE AREA 183.91 ft.^{2} 19.09 m^2
DISPLACED VOLUME 13.41 ft.^{3} 0.380 m^3
WEIGHT SEE NOTE #1 lbs – kg
C.R.N. U7058.21
IMPACT TEST EXEMPTED PER TABLE A1 & TABLE 323.2.2. A (1)

CODE ASME/ANSI B31.3 2006
COIL NUMBER 2 (MAX CE ≤ 0.45)
SIZE 6" SCH. 120 NOM. WALL 0.562" ANSI 900#
PIPE SA-333 Gr.6 FITTINGS SA-420-WPL6 FLANGES SA-350-LF2
DESIGN 2,025 psig @ 212 °F. MDMT -20 °F. 0.125" C.A.
DESIGN 13 962 kPag @ 100 °C. MDMT -29 °C. 3.18mm C.A.
HYDROTEST PRESSURE (1.5 x D.P. x S-hydro/S-design) 3,038 psig 20 943 kPag
RADIOGRAPHY 100% PWHT 1 HOUR @ 1150 ±50°F
WETTED TUBE AREA 87.34 ft.^{2} 8.11 m^2
DISPLACED VOLUME 12.06 ft.^{3} 0.342 m^3
WEIGHT SEE NOTE #1 lbs – kg
C.R.N. U7058.21
IMPACT TEST EXEMPTED PER TABLE A1 & TABLE 323.2.2. A

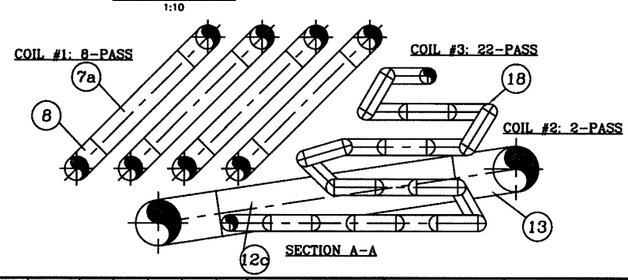
CODE ASME/ANSI B31.3 2006
COIL NUMBER 3 (MAX CE ≤ 0.45)
SIZE 2" SCH. XH NOM. WALL 0.218" ANSI 900#
PIPE SA-106-B SML'S FITTINGS SA-234-WPB FLANGES SA-105N
DESIGN 2,025 psig @ 212 °F. MDMT -20 °F. 0.0625" C.A.
DESIGN 13 962 kPag @ 100 °C. MDMT -29 °C. 1.59mm C.A.
HYDROTEST PRESSURE (1.5 x D.P. x S-hydro/S-design) 3,038 psig 20 943 kPag
RADIOGRAPHY 100% PWHT 1 HOUR @ 1150 ±50°F
WETTED TUBE AREA 335.26 ft.^{2} 31.15 m^2
DISPLACED VOLUME 16.59 ft.^{3} 0.470 m^3
WEIGHT SEE NOTE #1 lbs – kg
C.R.N. U7058.21
SERIAL NO.: 08-015940-62
IMPACT TEST EXEMPTED PER TABLE A1 & TABLE 323.2.2. A

N.D.E. NOTES:

100% OF ALL BUTT WELDS ON COILS 1 AND 2 AND 3 TO BE HARDNESS TESTED. WELDS SHALL BE LESS THAN RC-22.

GENERAL NOTES:

1) WEIGHT = 16628 LBS [7550 KG](FOR ALL THE 3 COILS)

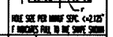


BILL OF MATERIALS

M- MTR REQ'D C- RESTRICTED CHEMISTRY O- RESTRICTED ORIGIN
N- NACE REQ'D S- RESTRICTED SUPPLIER I- IMPACT TEST REQ'D

ITEM	QTY.	DESCRIPTION		LENGTH	
1	2	FLANGE: RTJWN 6" CL. 2500 SCH. XXH BORE	SA-350-LF2 CL.1	--	REMOVED AFL INSERTION ID 2.25
2a	1	6" FORGING SEE SHT. 2 FOR DETAIL	SA-350-LF2 CL.1	1815	M, N
2b	1	6" FORGING SEE SHT. 2 FOR DETAIL	SA-350-LF2 CL.1	850	M, N
3	2	6" FORGING END CAP: SEE SHT. 2 FOR DETAIL	SA-350-LF2 CL.1	--	M, N
4	8	W.O.L.: 3" SCH. XXH	SA-350-LF2 CL.1	--	M, N
5	3	FLANGE: RTJWN 1 1/2" CL. 2500 SCH. XXH BORE	SA-350-LF2 CL.1	--	M, N
6	5	W.O.L.: 1 1/2" SCH. XXH	SA-350-LF2 CL.1	--	M, N
7a	4	PIPE: 3" SCH. XXH SMLS	SA-333 GR.6	457	M, N
7b	4	PIPE: 3" SCH. XXH SMLS	SA-333 GR.6	7577	M, N
7c	4	PIPE: 3" SCH. XXH SMLS	SA-333 GR.6	8346	M, N
8	8	ELBOW: 3" 90° L.R. SCH.XXH	SA-420-WPL6	--	M, N
9	1	ANGLE: 3" x 3" x 3/8"	SA-36	6050	-
11	2	FLANGE: RFWN 6" CL. 900 SCH. 120 BORE	SA-350-LF2 CL.1	--	M, N
12a	1	PIPE: 6" SCH.120 SMLS	SA-333 GR.6	8481	M, N
12b	1	PIPE: 6" SCH.120 SMLS	SA-333 GR.6	7643	M, N
12c	1	PIPE: 6" SCH.120 SMLS	SA-333 GR.6	882	M, N
13	2	ELBOW: 6" 90° L.R. SCH.120	SA-420-WPL6	--	M, N
14	2	FLANGE: RFWN 1 1/2" CL. 900 SCH. XXH BORE	SA-350-LF2 CL.1	--	M, N
15	2	ANGLE: 4" x 4" x 3/8"	SA-36	6920	-
16	2	FLANGE: RFWN 2" CL. 900 SCH. XH BORE	SA-105N	--	M, N
17a	20	PIPE: 2" SCH. XH SMLS	SA-106-B	6905	M
17b	2	PIPE: 2" SCH. XH SMLS	SA-106-B	7210	M
18	21	BEND: 2" 180° L.R. SCH.XH	SA-234-WPB	--	M
19	2	ELBOW: 2" 90° L.R. SCH.XH	SA-234-WPB	--	M
20	1	MALONEY INDUSTRIES NAMEPLATE	SS	--	-
21	1	MALONEY INDUSTRIES NAMEPLATE BRACKET	SA-516-70N	--	-
22	3	PLATE: 3/8" THK. CUT AS SHOWN	G40.21/300W	--	-

WELD PROCEDURES		
MI-GSS-2	BUTTWELDS	
MI-GSS-2	ROOT	
MI-GSS-2	FILL & CAP MISC. TACKWELDS	

P	FLANGE TO PIPE	R	TOL/WOL ON SHELL/HEAD
			
WPS	-	WPS	-
BEVEL	60° ± 15°	BEVEL	"F"
GAP	3/16" ± 3/16"	GAP	3/16" ± 3/16"

FUSE SEE PER WMMS SPC. <±2.125" F INDICATES FULL TO ID. SHAPE SHOWN

MARK	NO. REQ'D.	SERVICE	SIZE	CLASS	TYPE
N11	1	PG	1 1/2"	2500	RTJWN/WOL SCH. XXH
N10	1	TG	1 1/2"	2500	RTJWN/WOL SCH. XXH
N9	1	PG	1 1/2"	2500	RTJWN/WOL SCH. XXH
N8	1	PG	1 1/2"	900	RFWN/WOL SCH. XXH
N7	1	PIT	1 1/2"	900	RFWN/WOL SCH. XXH
N6	1	COIL #3 OUTLET	2"	900	RFWN/PIPE SCH. XH
N5	1	COIL #3 INLET	2"	900	RFWN/PIPE SCH. XH
N4	1	COIL #2 OUTLET	6"	900	RFWN/PIPE SCH. 120
N3	1	COIL #2 INLET	6"	900	RFWN/PIPE SCH. 120
N2	1	COIL #1 OUTLET	6"	2500	RTJWN/PIPE SCH. XXH
N1	1	COIL #1 INLET	6"	2500	RTJWN/PIPE SCH. XXH

ANSI 16.5 FLANGES; B1.20.1 NPT

NOZZLE SCHEDULE

REV	DESCRIPTION	DATE	BY	CHK	APP	REV'D CKC REQ	ADMIN
-						-	-
						-	-
						-	-
						-	-
1	REVISED COIL 1 TO EXEMPT IMPACT TEST AND CHANGED FITTING MATERIAL	08-07-18				-	-
0	ISSUED FOR CONSTRUCTION	08-06-25	CL	EC	AN	-	-
A	ISSUED FOR APPROVAL	08-06-09	CL	EC	AN	-	-

REVISIONS

PERMIT TO PRACTICE ALBERTA NO. P-6812

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MALONEY INDUSTRIES
A DIVISION OF FOREMOST UNIVERSAL LP
8825 Shepard Road SE, Calgary, Alberta, T2C 4N9
Phone: (403) 279-5000 Fax: (403) 279-2068

CUSTOMER

TITLE Z-4000-LINE HEATER PACKAGE
BUNDLE LAYOUT & DETAILS

PROJECT # AND NAME BC0127-004-HORSESHOE-WELLSITE

DRAWN	DATE	APPROVED	SCALE	MP NO.
CL	08-06-02	AN	1:10	015940-62

NO. REQ'D	DRAWING NO.	SHT. NO.	REV.
1	015940-4-62	1 OF 2	1