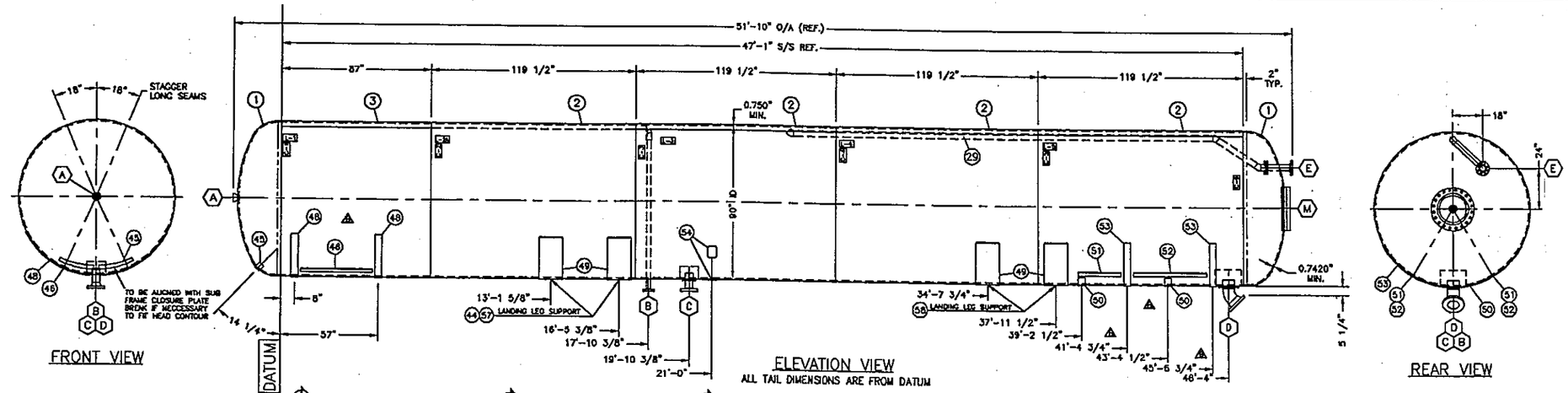
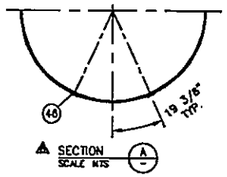
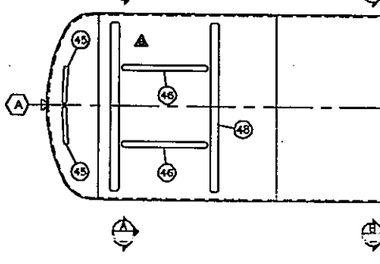


ELEVATION VIEW
ALL TAIL DIMENSIONS ARE FROM DATUM

FRONT VIEW

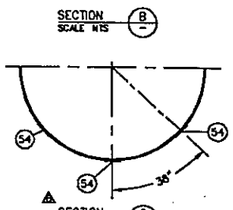
REAR VIEW

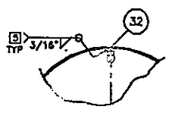


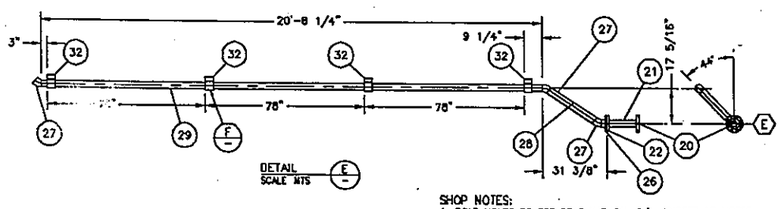


TOM VIEW

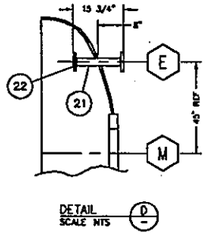
ITEM	LOCATION	PART NO	QTY	UM	DESCRIPTION	
	1 HEAD	67858	2	EA	HD 2:1SE 81.5 OD X .742 MN 2" SF SA516-70	
⚠	2 SHELL	51383	852.7	F2	PL .750" SA516-70	4 PCS 23'-11" x 8'-11 1/2"
⚠	3 SHELL	51383	174.8	F2	PL .750" SA516-70	1 PCS 23'-11" x 7'-3"
	4 A	172255332	1	EA	FLOAT GAUGE ADAPTER CL300# SA181-60.	DWG 9802-35A
	5 A	67884	1	EA	GA FLOAT ROCHESTER F/90 8 BOLT C/W EXTEN FOR CO2 8" DIAL	
⚠	6 --	-	--	--	-	-
	7 B	58001	1	EA	FLG 2 CL300 RFSO SA105N	
	8 B	51551	7.9	FT	PIPE 2" STD SMLS SA 106B	1 PCS 84-1/2" LG
	9 B	65955	1.0	FT	BAR FLAT 1/4" x 2" 44W	1 PCS 12" LG
	10 B	51554	9.3	FT	PIPE 2-1/2" STD SMLS SA 106B	1 PCS 3" LG
	11 C	65369	1	EA	FLG 4 CL300 RFSO SA105N	
⚠	12 C REPAD	51383	0.4	F2	PL .750" SA 516-70	1 PCS 8 1/2" OD
	13 C	51583	0.8	FT	PIPE 4" STD SMLS SA 106B	1 PCS 7-1/2" LG
	14 C	64495	1	EA	VORTEX BREAKER GENERIC SA516-70N (4")	DWG 9803-20B
	15 D	65370	1	EA	FLG 6 CL300 RFWN STD BORE SA105N	
⚠	16 D REPAD	51383	1.0	F2	PL .750" SA 516-70	1 PCS 12" OD
	17 D	51587	0.4	FT	PIPE 6" STD SMLS SA 106B	1 PCS 5" LG
	18 D	62954	1	EA	ELBOW WELD 45 LR 6 STD SA234 WPB	
	19 D	64495	1	EA	VORTEX BREAKER GENERIC SA516-70N (6")	DWG 9803-20B
	20 E	54685	1	EA	FLG 3 CL300 RFSO SA105N	
	21 E	51561	1.4	FT	PIPE 3" SCH160 SMLS SA 106B	1 PCS 15" LG
	22 E	18850008	1	EA	FLG 3 CL150 RFSO SA105N	
	23 E	56809	2	EA	GASKET DURLON 8500 3 CL150 1/16" THK	
	24 E	51720	4	EA	STUD 5/8NC X 3-3/4 LG SA 193-B7	
	25 E	51710	8	EA	NUT HEX 5/8" NC SA 194-2H	
	26 E	51842	1	EA	FLG 3 CL150 RFWN STD BORE SA105	
⚠	27 E	54372	3	EA	ELBOW WELD 45 LR 3 STD SA234 WPB	
⚠	28 E	51559	2.7	FT	PIPE 3" STD SMLS SA 106B	1 PCS 31 9/16" LG
⚠	29 E	51559	20.6	FT	PIPE 3" STD SMLS SA 106B	1 PCS 20'-6 1/4" LG
⚠	30 --	--	--	--	-	-
⚠	31 --	--	--	--	-	-
	32 E	65955	1.3	FT	BAR FLAT 1/4" x 2" 44W	4 PCS 4" LG
	33 E	56807	1.3	FT	PIPE 3-1/2" STD SMLS SA106B	4 PCS 4" LG
	34 E	65955	1.3	FT	BAR FLAT 1/4" x 2" 44W	4 PCS 4" LG
	35 E	55848	4	EA	BOLT HEX 1/2" NC X 1-1/2" GR8 ZN PL	
	36 E	56839	4	EA	NUT HEX 1/2" NC SAE GR8 ZN PLT	
	37 E	50507	4	EA	WASHER LOCK 1/2 ZN PL	
	38 M	65386	1	EA	FTG MANWAY 18 325 SA516-70N INP-20	DWG 9912-02B
	39 M	65382	1	EA	FLG BLIND 18 CL300 RF 1NPT SA 105N	DWG 9912-01B
	40 M	18900807	1	EA	GA ROTARY 1"MNPT W/O DIAL J31X-3L	
	41 M	67916	1	EA	GASKET DURLON 8500 16" CL300	
	42 M	65858	20	EA	STUD 1-1/4" UC x 5-3/4" LG 8TPI SA-193-B7	
	43 M	51712	20	EA	NUT HEX 1-1/4" 8TPI SA 194-2H	
	44 DATA PLATE	58077	1	EA	SPL DATA DUAL UNITS METRIC/IMP (NOTE 14)	DWG 8805-15A
	45 F SUBFRAME	59205	1.4	F2	PL .375" SA 516-70	2 PCS 21" x 4"
⚠	46 F SUBFRAME	59208	2.3	F2	PL .375" SA 516-70	2 PCS 41-7/8" x 4"
⚠	47	-	-	-	-	-
⚠	48 F SADDLE WING	59206	5.7	F2	PL .375" SA 516-70	2 PCS 8' 8" x 4"
⚠	49 LANDING LEG	59208	39	F2	PL .375" SA 516-70	4 PCS 100" x 14"
⚠	50 R SUBFRAME	59208	2.4	F2	PL .375" SA 516-70	2 PCS 43" x 4"
⚠	51 R SUBFRAME	59208	1.4	F2	PL .375" SA 516-70	2 PCS 24-3/4" x 4"
⚠	52 R SUBFRAME	59208	2.4	F2	PL .375" SA 516-70	2 PCS 43" x 4"
⚠	53 R SADDLE WING	59206	5.7	F2	PL .375" SA 516-70	2 PCS 8' 8" x 4"
⚠	54 VALVE GRD	59206	1.0	F2	PL .375" SA 516-70	3 PCS 8" x 8"
⚠	55 INSUL. SUPPORT	REF.	1	EA	INSULATION RING LAYOUT	DWG. 9912-21D
⚠	56 SUPPORTS	REF.	1	EA	REAR LANDING LEGS SUBFRAME ASSEMBLY	DWG. 2003-08390
⚠	57 SUPPORTS	REF.	1	EA	FRONT LANDING LEGS SUBFRAME ASSEMBLY	DWG. 2003-09090
	58	-	-	-	-	-
	59	-	-	-	-	-
	60	-	-	-	-	-



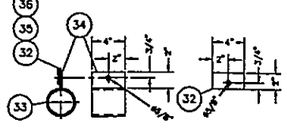




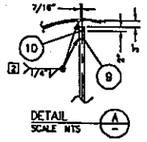
DETAIL E
SCALE NTS



DETAIL D
SCALE NTS

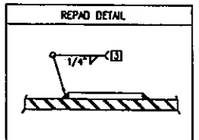


DETAIL F
SCALE NTS



DETAIL A
SCALE NTS

REPAD DETAIL



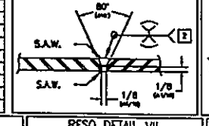
SHOP NOTES:
1. BOLT HOLES TO STRADDLE NATURAL C/L, EXCEPT AS NOTED.
2. FLANGE SURFACE TO BE PROTECTED FROM WELD SPATTER.
3. ALL INSIDE CONNECTIONS TO BE ROUNDED TO 1/8" R. MIN.
4. PADS TO BE RADIUSED ON ALL CORNERS.
5. FOR VESSEL PADS, 1/4" DIA. WEEP HOLE REQ'D 3/4" FROM EDGE (TYPICAL).
6. AFTER FINAL HYDROTEST, VESSEL TO BE COMPLETELY DRAINED & DRIED PRIOR TO COVERING AND PROTECTING ALL OPENINGS.
7. VESSEL TO BE SHIPPED WITH SERVICE BLINDS, GASKETS AND BOLTING IN PLACE NO EXPOSED OPENINGS ALLOWED WHILE IN SERVICE OR TRANSIT.
8. ALL NOZZLE PROJECTIONS, INTERNAL AND EXTERNAL SHALL BE MEASURED ALONG SHORTEST SIDE UNLESS OTHERWISE SPECIFIED.
9. PIPE LENGTHS IN B/U ARE OVERALL, CUT LENGTH TO SUIT NOZZLE ACCORDING TO NOZZLE CHART.
10. IMPACT TEST REQUIREMENTS EXEMPTED AS PER UG 20(f)(1-5).
11. TANK WILL NOT BE UNDER PRESSURE DURING TRANSPORTATION.
12. USE WELDING PROCEDURE WP 809.2 S-170 FOR TACK WELDING.
13. SHELL PLATES TO BE TRIMMED SQUARE TO WITHIN ±1/32, REDUCE PLATE WIDTH IF NECESSARY.
14. NAMEPLATE ITEM 44 TO BE WELDED TO FRONT LENDING LEG.
15. AT ROLLING, MARK DATUM ON 2 END CANS 2" FROM EDGE.
16. ACCEPTABLE MATERIAL SUBSTITUTIONS:
    SA333 GR6 FOR SA106B
    SA350-LF2 FOR SA105
    ALL OTHER SUBSTITUTIONS SHALL BE APPROVED BY ENGINEERING.

DESIGN DATA – ENGLISH (METRIC) UNITS

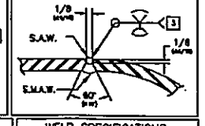
ASME SEC. VIII DIV 1, 2001 EDITION, 2002 ADDENDA	SYMBOL UW12 (a) & (d)
DESIGN INT: 325Psi (2241kPa) EXT: N/A	DIAMETER 90" ID (2286 mm)
MAWP INT: 325Psi (2241kPa) EXT: N/A	LENGTH O/A 51'-10" (15,799 mm)
DESIGN TEMP. – INT & EXT: 115'F (46°C)	CAPACITY: 2,205 FT^3 (62.4 M^3)
MDMT: –20'F @ 325 Psi (–29°C @ 2241 kPa)	SURFACE AREA: 1,262 FT^2 (117 M^2)
XRAY SHELL LONG: FULL CIRC: UW11(a)(5)(b)	HEAD TYPE: SEMI-ELLIPTICAL
XRAY HEAD LONG: SMLS CIRC: UW11(a)(5)(b)	HEAD MATERIAL: SA-516-70
JOINT EFF. – HEAD: 100% SHELL: 100%	HEAD THICKNESS: 0.7420" MIN (18.85 mm) ⚠
STRESS RELIEVED: NO	HEAD CORROSION ALLOWANCE: NIL
HYDRO TEST MDH & COLD: 427 Psi (2914 kPa) LIMITED BY: HEAD	SHELL MATERIAL: SA-516-70
EST. SHIPPING WEIGHT: 53,100 LBS (24,100 KG)	SHELL THICKNESS: 0.750" (19.05 mm)
SANDBLAST: SSPC-SP6	SHELL CORROSION ALLOWANCE: NIL
PRIMER: . PAINT: .	STUDS: SA-193-B7M NUTS: SA-194-2H
INSULATION: 4" ISOFOAM SS-0153	MW GASKETS: DURLON 8500 FLANGES: SA-105N PIPE: SA-106B
CRN PENDING	SUPPORT MTL: . REINFORCING MTL: SA-516-70
REG DRAWING .	

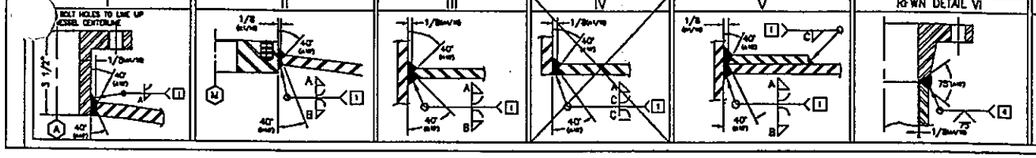
NOZZLE MARK	NO. REQD	SIZE	RATING	TYPE	BORE	DIAMETER ID	DIAMETER OD	EXTERNAL PROJ.	MINIMUM INTERNAL PROJ.(REF)	PIPE CUT LENGTH	SERVICE	PAD DIAMETER	PAD THICK.	WELD DETAILS	WELD SIZES A	B	C	D	E	W1	W2	REMARKS
A	1	1	FLOAT GA ADAPT & BOLT			2.32	3.00	--		--	FLOAT GAUGE	--	--	1	3/8	--	--	--	--	--	--	
B	1	2	300#	RFSO	STD	2.08	2.38	7	87.00	--	VAPOUR W/RISER	N/A	N/A	BL VR	1/4	1/4	--	--	--	3/16	1/4	ITEMS: 7-10
C	1	4	300#	RFSO	STD	4.03	4.50	7	FLUSH ⚠	--	FILL	8.50	3/4	V, VR	1/4	⚠ --	9/16	--	--	--	--	ITEMS: 11-14
D	1	6	300#	RFWN	STD	6.07	6.63	--	2.63	--	DELIVERY	12.00	3/4	V, VR	5/16	1/4	9/16	--	--	--	--	ITEMS: 15-19
E	1	3	300#	RFSO	160	2.62	3.50	--	SEE DETAIL D	--	VAPOUR W/INTERNAL	N/A	N/A	BL VR	3/8	3/8	--	--	⚠ 1/4	1/4	1/4	ITEMS:20-29,32-37
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
M	1	MANWAY C/W BLIND			--	18.00	25.50	1 1/8	--	--	MANWAY C/W ROTO GA	N/A	N/A	II	3/8	1/4	--	--	--	--	--	ITEMS: 38-43

LONG AND CIRC SEAM DETAIL



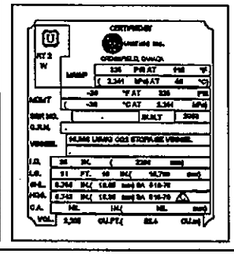
CLOSING SEAM DETAIL





WELD SPECIFICATIONS

1. WP 809.2-S-170 (S.M.A.W.)
2. WP 809.2-S-170 (S.A.W.)
3. WP 809.2-S-170 (S.A.W. S.M.A.W.)
4. WP 809.2-S-140 (G.M.A.W. S.M.A.W.)
5. WP 809.2-S-170 (S.M.A.W.)



REV NO.	DRWN.	DATE	ENG	PLANT	QC	DESCRIPTION
C	DB	03.10.17				REVISED NZL SCHED WELDS. IT 12 IN BOM, DATA BLOCK HEAD THK (mm)
B	JC	03.09.24				REVISED INTERNAL PROJ. NOZZLE "C" WAS 2" NOW FLUSH. REVISED WELD SIZES. REVISED ITEMS #2, 3, 46, 47, 48, 51, 52, 53, 54, 56, & 57. REVISED FRONT & REAR SUBF PADS.
A	YK	03.09.17				CHANGED WELDING DETAILS, VAPOUR INTERNALS, ADDED DETAILS & NOTES.
0	JC	03.08.25				ORIGINATED FROM DWG 2000-0204D, REV. G.

MaXfield Inc.

90" ID 16,500 USWG
MOBILE CO2 STORAGE TANK

THIRD ANGLE PROJECTION

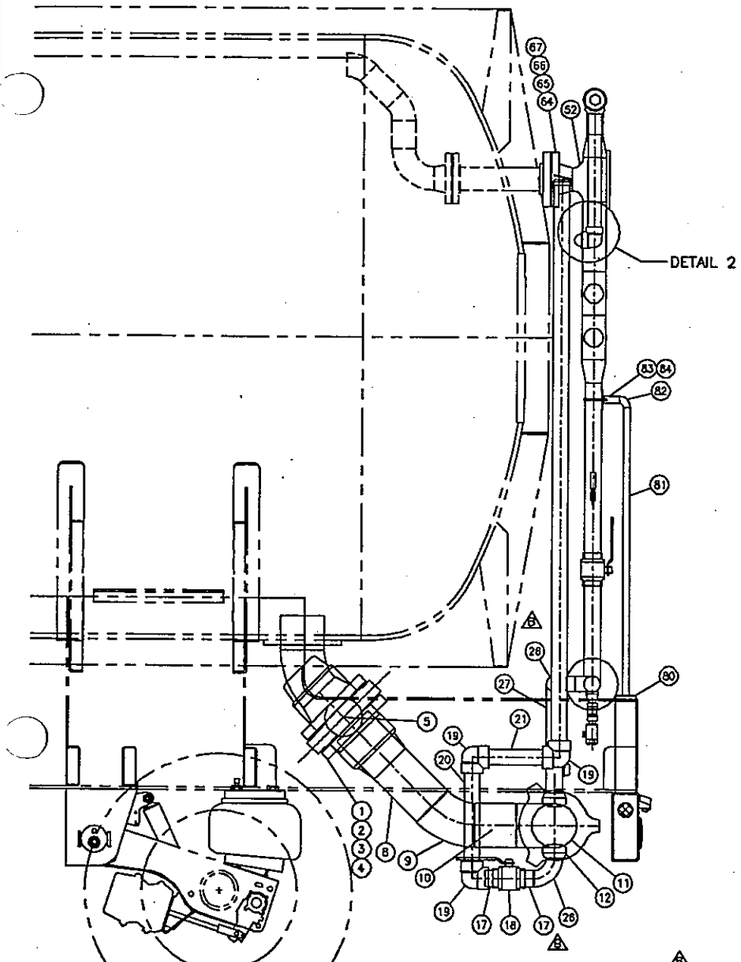
SEE DRAWING 2002-07029 FOR APPLICABLE TOLERANCES UNLESS OTHERWISE STATED

SCALE: NTS P/N – 67888

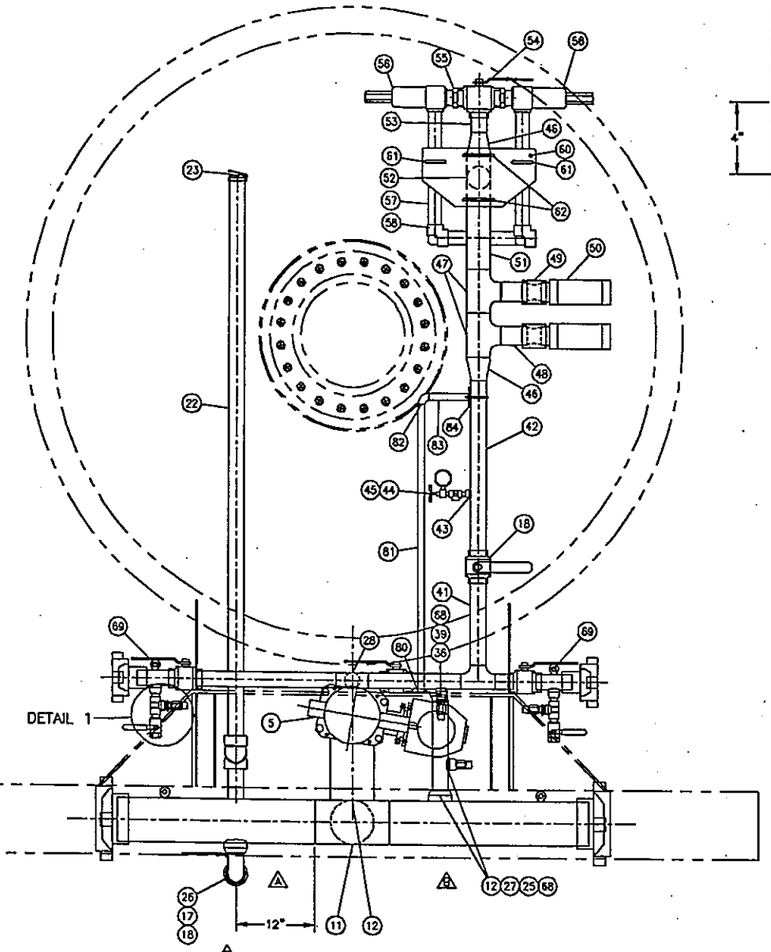
JOB #31-0573

DRAWING No. 2003-0827D SHEET 1 OF 1

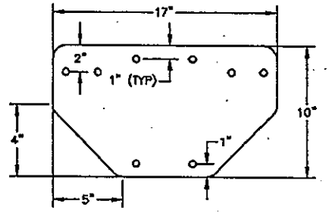
REV C



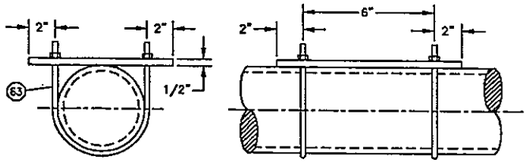
CURB SIDE ELEVATION VIEW



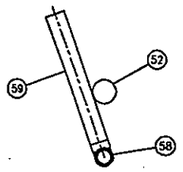
REAR ELEVATION VIEW



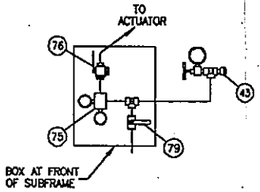
DETAIL ITEM #60



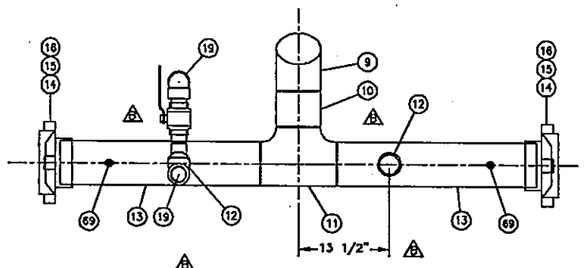
6" PIPE SUPPORT DETAIL



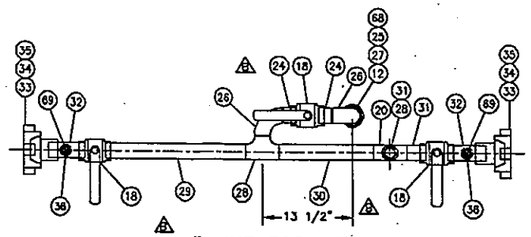
DETAIL 2
TOP VIEW



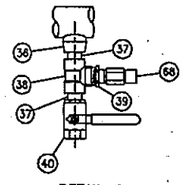
ACTUATOR BLEED OFF LINE



6" LINE TOP VIEW

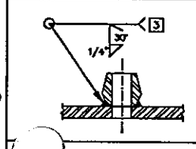


2" LINE TOP VIEW



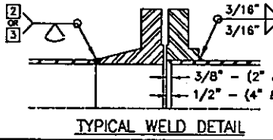
DETAIL 1

ITEM	LOCATION	PART NO	QTY	UM	DESCRIPTION	
85						
84	HAND POST	50427	1	EA	BOLT U 2" PIPE C/W PL & NUTS	
83	HAND POST	51543	0.5	FT	PIPE 3/4" STD SMLS SA 106B	1 PCS 6" LG
82	HAND POST	63793	1	EA	ELBOW WELD 90 LR 3/4" STD SA234WPB	
81	HAND POST	51543	3.0	FT	PIPE 3/4" STD SMLS SA 106B	1 PC 43" LG
80	HAND POST	51421	0.3	FT	BAR FLAT 1/4" X 3" SA 36	1 PCS 3" LG
79		53905	1	EA	VALVE BALL 1/4" FNPT F-PORT CS	
78		18820181	1	EA	NIPPLE 1/4MNPT X 3 XH SMLS SA106B	
77		50357	2	EA	ELBOW 90 3/8 TUBE X 1/4 MNPT	
76		66087	1	EA	VALVE BALL 1/2" 3 WAY S.S/TFE/SE 76-803-01	83-206-01A
75		63336	1	EA	REGULATOR SR 310 HIGH FLOW CO2	
74		56430	8.0	FT	TUBING 3/8" X .035" WALL SS	1 PCS 8'-0" LG
73		61726	2	EA	AIR BREATHER 1/4" MNPT	
72		18800350	2	EA	BUSH RED HEX 1/2 X 1/4 FS SA105	
71		53858	1	EA	TEE 1/4 FNPT X MNPT X FNPT LEG STL	
70		53569	2	EA	CONN 3/8 TUBE X 1/2 MNPT GYROLOK	
69	EYE HOOKS	65894	4	EA	EYE PAD 3/4" I.D.	
68	HYD RELIEF	65397	4	EA	VALVE HYDROSTATIC RLF 1/2" 3129U	A1325
67		54688	8	EA	STUD 3/4NC X 4-1/4 LG SA 193-B7	
66		17110008	16	EA	NUT HEX 3/4" NC SA 194-2H	
65		67870	1	EA	GASKET DURLON 8500 3" CL300 1/16THK	
64	3" VAPOUR	54084	1	EA	FLG 3 CL300 RFWN STD BORE SA 105	
63	CLAMP	82704	4	EA	CLAMP MUFFLER 6-3/8"	
62	CLAMP	50425	2	EA	CLAMP MUFFLER 3-1/2" PLATED	
61	CLAMP	18363088	2	EA	CLAMP MUFFLER 1-7/8" PLATED X-LONG	
60	SUPPORT PLATE	65356	1.2	FT	PL 300 44#	1 PCS 17" x 10"
59		51548	1.2	FT	PIPE 1-1/2" XH SMLS SA 106B (TOE/POE)	1 PCS 14" LG
58		51627	2	EA	ELBOW 90 1-1/2 NPT 2000# SA 105	
57		51549	2.3	FT	PIPE 1-1/2" XH SMLS SA 106B (TBE)	2 PCS 14" LG
56	RELIEF	65428	2	EA	VALVE RELIEF 1 X 1-1/2" PRESSURE SDXES27A34-4209325 PSI	
55		54903	2	EA	BUSH RED HEX 2 X 1 FS SA105	
54		65423	1	EA	VALVE BALL 2" 3 WAY S.S/TFE/SE	83-208-01A
53		51552	0.3	FT	PIPE 2" XH SMLS SA 106B (BOE/TOE)	1 PCS 4" LG
52		18435107	1	EA	TEE WELD 3 STD SA 234WPB	
51		51559	0.9	FT	PIPE 3" STD SMLS SA 106B (BBE)	1 PCS 10-1/4" LG
50	RELIEF	67893	2	EA	VALVE RLF 2 1/2" NPT CO2 REGO LA3149A358	
49		18405091	2	EA	CPLG FULL 3-1/2 NPT 3000# SA 105	
48		51555	0.7	FT	PIPE 2-1/2" XH SMLS SA106B (BOE/TOE)	2 PCS 4" LG
47		67858	2	EA	TEE WELD RED 3 X 3 X 2-1/2 STD SA234 WPB	
46		54106	2	EA	REDUCER CONC 3 X 2 STD SA234 WPB	
45		17269460	1	EA	GA PRES 1/4 STL 0-400 BTM.MTG.FLG	AM425C14-P400X
44		18490001	1	EA	VALVE NEEDLE (1900) N1572	
43		51708	1	EA	THREDOLET FLAT X 1/4 3000# SA 105	
42		51551	2.2	FT	PIPE 2" STD SMLS SA 106B (BOE/POE)	1 PCS 28-3/8" LG
41		51551	1.1	FT	PIPE 2" STD SMLS SA 106B (BOE/POE)	1 PCS 12-3/4" LG
40		18120181	2	EA	VALVE BALL 1" F PORT 83-105-01	
39		18800530	3	EA	BUSH RED HEX 1 X 1/2 FS SA105	
38		18835060	2	EA	TEE 1 NPT 3000# SA105	
37		53975	3	EA	NIPPLE 1MNPT X 2 XH SMLS SA106B	
36		54579	3	EA	THREDOLET 1 3000# X 2 RUN SA105	
35		65621	2	EA	WECO STYLE 2" 1502 THREADED BULL PLUG	
34		65580	2	EA	WECO STYLE 2" 1502 WING	
33		65620	2	EA	WECO STYLE 2" 1502 WINGED HALF	
32		51552	1.0	FT	PIPE 2" XH SMLS SA 106B (TOE/POE)	2 PCS 8" LG
31		51551	0.2	FT	PIPE 2" STD SMLS SA 106B (BOE/POE)	1 PCS 2-5/8" LG
30		51551	1.2	FT	PIPE 2" STD SMLS SA 106B (BBE)	1 PCS 14" LG
29		51551	1.8	FT	PIPE 2" STD SMLS SA 106B (BOE/POE)	1 PCS 21-1/4" LG
28		51697	2	EA	TEE WELD 2 STD SA234 WPB	
27		51551	1.1	FT	PIPE 2" STD SMLS SA 106B (BBE)	1 PCS 13-1/2" LG
26		51829	3	EA	ELBOW WELD 90 LR 2 STD SA234 WPB	
25		67826	1	EA	THREDOLET 1/2 3000# X 2 RUN SA105	
24		51551	0.3	FT	PIPE 2" STD SMLS SA 106B (1-BOE/POE,1-TOE/POE)	2 PCS 1-7/8" LG
23		65714	1	EA	CAP RAIN 2-1/2" EXHAUST STACK	
22		51552	6.3	FT	PIPE 2" XH SMLS SA 106B (TOE/POE)	1 PCS 78" LG
21		51552	0.8	FT	PIPE 2" XH SMLS SA 106B (TBE)	1 PCS 8" LG
20		51552	1.3	FT	PIPE 2" XH SMLS SA 106B (TBE)	1 PCS 14" LG
19		18615060	3	EA	ELBOW 90 2 NPT 3000# SA 105	
18		67153	6	EA	VALVE BALL 2" SW FP VENTED EMCO	B3-748-A1A
17	2" BLOWDOWN	51552	0.3	FT	PIPE 2" XH SMLS SA 106B (1-TOE/POE,1-BOE/POE)	2 PCS 2" LG
16		67060	2	EA	WECO STYLE 6" 208 THREADED BULL PLUG	
15		65598	2	EA	WECO STYLE 6" 208 WING	
14		65600	2	EA	WECO STYLE 6" 208 WINGED HALF	
13		65514	1	EA	NIPPLE 6MNPT X 3" XH SMLS SA 106B	2 PCS 30" LG
12		63765	2	EA	WELDOLET 2 STD X 6 RUN SA105	
11		59768	1	EA	TEE WELD 6 STD SA234 WPB	
10		51567	0.4	FT	PIPE 6" STD SMLS SA 106B (BBE)	1 PCS 9-1/4" LG
9		62954	1	EA	ELBOW WELD 45 LR 6 STD SA234 WPB	
8		51567	1.4	FT	PIPE 6" STD SMLS SA 106B (BOE/POE)	1 PCS 18-7/8" LG
7						
6						
5	6" BUTTERFLY	65618	1	EA	ACTUATOR 6" SPRING RETURN KEYSTONE MODEL F7800-0655	
		67459	1	EA	VALVE BUTTERFLY 6" CL300 KEYSTONE METAL SEAT	
4		56447	12	EA	STUD 3/4NC X 7" LG SA193-B7M	
3		17110008	24	EA	NUT HEX 3/4" NC SA 194-2H	
2		67874	2	EA	GASKET DURLON 8500 6" CL300 1/16THK	
1	1/4" OUTLET	59224	1	EA	FLG 6 CL300 RFSO SA105	



WELD PROCEDURES

1. 609.2-S-170 (SMAW)
2. 609.2-S-140 (GMAW, SMAW)
3. 609.2-S-94-1(SMAW)
4. 609.2-S-161 (GMAW)



TYPICAL WELD DETAIL

PRESSURE PIPING SYSTEM DESIGN DATA (CODE-ANSI/ASME B31.3 1999 EDITION, ADDENDA 2001)

PROCESS	DESIGN PRESS. PSI (kPa)	DESIGN TEMP. °F (°C)	TEST PRESS. PSI (kPa)	TEST MEDIUM	MATERIAL SPEC. AND GRADE	PIPE DIAMETER AND SCHEDULE	FLANGE RATING	R.T. %
CO2	325 (2241)	115° (46°)	488 (3362)	H20	SA-106-B SA-234-WPB SA-105	2" SCH STD 2" SCH XH 3" SCH STD 3" SCH XH 6" SCH STD 6" SCH XH	CL 300#	5%

SHOP NOTES:

1) FOR BUTT WELDING PIPE SCH. STD TO XH TOGETHER, GRIND THE XH PIPE OR FITTING WITH A 3:1 TAPER INSIDE.
2) ALL THREADED CONNECTIONS TO BE SCH 80 OR XH.
3) SHOP TO ADJUST PIPE LENGTH ON WELDED PIPING TO ALLOW FOR SHRINKAGE.
4) USE WELD PROCEDURE #4 FOR WELDING STAINLESS STEEL BALL VALVES TO CARBON STEEL.

REV NO.	DRWN	ENG	PLANT	QC	DATE	DESCRIPTION
C	JC	.	.	.	03.11.04	REVISED ITEMS #14, 16, 33 & 35.
B	JC	.	.	.	03.10.02	REVISED ITEMS #17, 19, 20, 24, 26, 27, 48 & 50. REVISED LOCATION OF 2" VAPOUR LINE FROM 6" PIPE. REVISED 2" BLOWDOWN LINE FROM BOTTOM OF 6" PIPE TO 2" BALL VALVE.
A	JC	.	.	.	03.10.02	REVISED ITEMS #13, 25, 27 & 68. CHANGED 6" THREADED PIPE TO A 6" NIPPLE 5 FT LG.
0	JC	.	.	.	03.08.29	ORIGINATED FROM DWG 2000-0115D, REV. B.

MaXfield Inc.

REAR PIPING ARRANGEMENT
16,500 USWG 90° CO2 MOBILE STORAGE TANK

THIRD ANGLE PROJECTION

SEE DRAWING 2002-07070 FOR APPLICABLE TOLERANCES UNLESS OTHERWISE STATED

SCALE: NTS

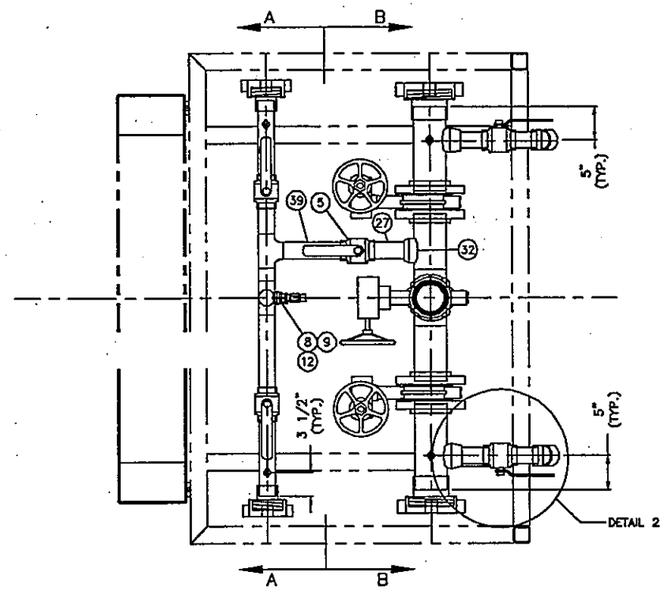
P/N – 67895

JOB

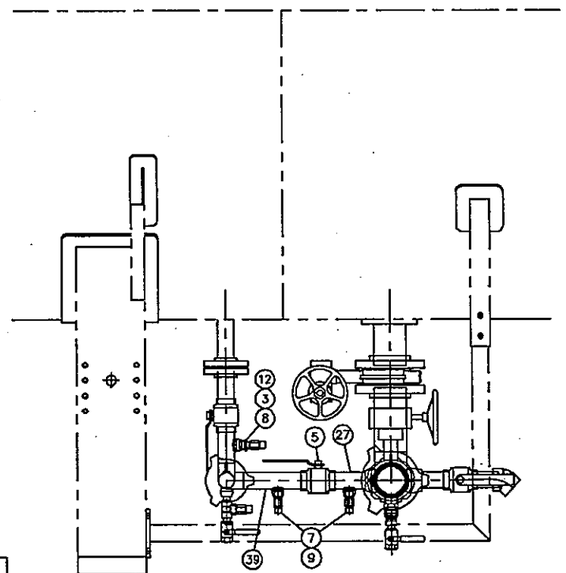
DRAWING No. 2003-0841D

REV C

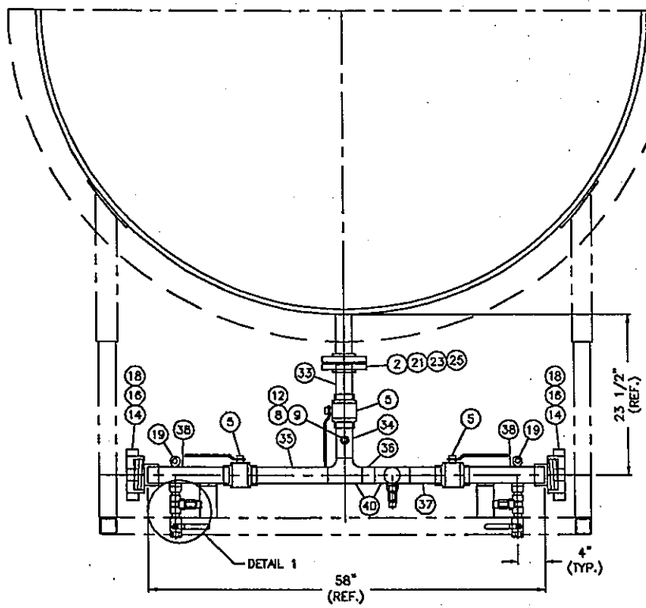
SHEET 1 OF 1



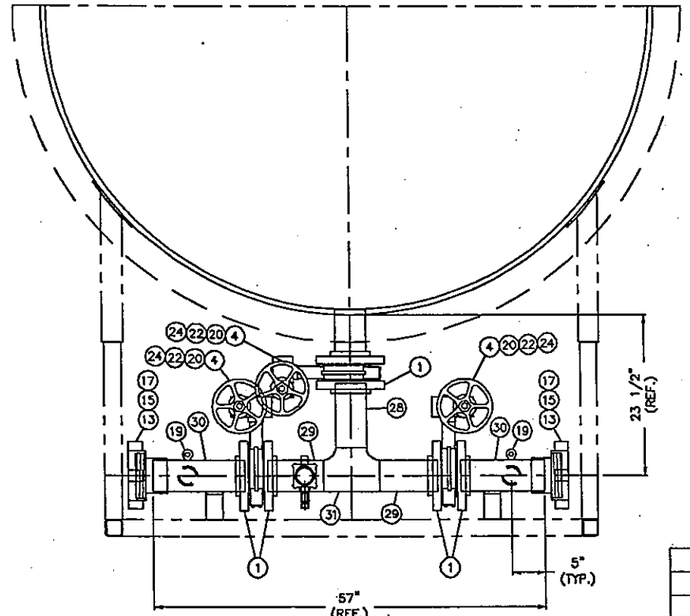
PLAN VIEW



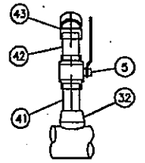
ELEVATION VIEW



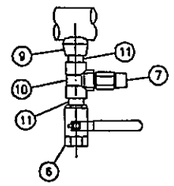
VIEW A–A



VIEW B–B

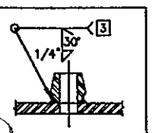


DETAIL 2



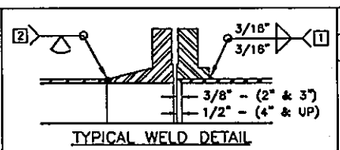
DETAIL 1

ITEM	LOCATION	PART NO	QTY	UM	DESCRIPTION	
45	U-BOLTS	50427	2	EA	BOLT U 2" PIPE C/W PL & NUTS	
44	U-BOLTS	62838	2	EA	BOLT U 4" DIA PIPE W/NUTS 316SS	
43	2" BLOWDOWN	18615093	2	EA	ELBOW 45 2 NPT 3000# SA105	
42	2" BLOWDOWN	51552	0.7	FT	PIPE 2" XH SMLS SA 106B (TOE/POE)	2 PCS 4" LG
41	2" BLOWDOWN	51551	0.8	FT	PIPE 2" STD SMLS SA 106B (PBE)	2 PCS 4" LG
40	2" FILL	51697	2	EA	TEE WELD 2 STD SA234 WPB	
39	2" FILL	51551	0.8	FT	PIPE 2" STD SMLS SA 106B (BOE/POE)	1 PCS 9-3/8" LG
38	2" FILL	51552	1.6	FT	PIPE 2" XH SMLS SA 106B (TOE/POE)	2 PCS 9-1/4" LG
37	2" FILL	51551	0.4	FT	PIPE 2" STD SMLS SA 106B (BOE/POE)	1 PCS 4-1/2" LG
36	2" FILL	51551	0.2	FT	PIPE 2" STD SMLS SA 106B (BBE)	1 PCS 1-7/8" LG
35	2" FILL	51551	0.9	FT	PIPE 2" STD SMLS SA 106B (BOE/POE)	1 PCS 11-3/8" LG
34	2" FILL	51551	0.4	FT	PIPE 2" STD SMLS SA 106B (BOE/POE)	1 PCS 5-1/4" LG
33	2" FILL	51551	0.3	FT	PIPE 2" STD SMLS SA 106B (PBE)	1 PCS 4" LG (C.T.S.)
32	2" FILL	54592	3	EA	WELDOLET 2 STD X 4 RUN SA105	
31	4" FILL	58188	1	EA	TEE WELD 4 STD SA234 WPB	
30	4" FILL	51564	2.1	FT	PIPE 4" XH SMLS SA 106B (TOE/POE)	2 PCS 12-7/8" LG
29	4" FILL	51563	1.4	FT	PIPE 4" STD SMLS SA 106B (BOE/POE)	2 PCS 8-1/4" LG
28	4" FILL	51563	0.6	FT	PIPE 4" STD SMLS SA 106B (BOE/POE)	1 PCS 9-3/4" LG
27	2" FILL	51551	0.3	FT	PIPE 2" STD SMLS SA 106B (PBE)	1 PCS 4-1/4" LG (C.T.S.)
26						
25	12" FLANGE	67599	1	EA	GASKET DURLON 8500 2 CL300 1/16" THK	
24	4" FLANGE	67533	8	EA	GASKET DURLON 8500 4" CL300 1/16THK	
23	2" FLANGE	51710	16	EA	NUT HEX 5/8" NC SA 194-2H	
22	4" FLANGE	17110008	48	EA	NUT HEX 3/4" NC SA 194-2H	
21	2" FLANGE	51719	8	EA	STUD 5/8NC X 5-1/2 LG SA 193-B7	1550361
20	4" FLANGE	59447	24	EA	STUD 3/4NC X 7" LG SA193-B7M	
19	EYE HOOKS	65694	4	EA	EYE PAD 3/4" LD.	
18	WING 2"	65589	2	EA	WECO STYLE 2" 1502 WING	
17	WING 4"	65592	2	EA	WECO STYLE 4" 602 WING	
16	WING 2"	65597	2	EA	WECO STYLE 2" 1502 WING BULL PLUG	
15	WING 4"	65590	2	EA	WECO STYLE 4" 602 WING BULL PLUG	
14	WING 2"	65468	2	EA	WECO STYLE 2" 1502 THREADED HALF	
13	WING 4"	65568	2	EA	WECO STYLE 4" 602 THREADED HALF	
12	BUSHING	18600350	1	EA	BUSH RED HEX 1/2 X 1/4 FS SA105	
11	DRAIN	51653	8	EA	NIPPLE 1/2NPT 1-1/2 XH SMLS A106B	
10	DRAIN	18635040	4	EA	TEE 1/2 NPT 2000# SA105	
9	THREDOLETS	63187	8	EA	THREDOLET FLAT X 1/2 3000# SA105	
8	GUAGE	17269470	1	EA	CA PRES 1/4 STL 0-400 BK.MT.LC.FLC	J7480P
7	HYDROSTAT	65397	6	EA	VALVE HYDROSTATIC RLF 1/2" 3129U	A1325
6	1/2" VALVE	67939	4	EA	VALVE BALL 1/2" FNPT SS EMICO	
5	2" VALVE	67153	5	EA	VALVE BALL 2" SW FP VENTED EMICO	
4	4" VALVE	67824	3	EA	VALVE BUTTERFLY 4" CL300 KEYSTONE C/W HAND WHEEL	
3	THREADOLET	51708	1	EA	THREDOLET FLAT X 1/4 3000# SA 105	
2	FLANGE 2"	56091	1	EA	FLG 2 CL300 RFSO SA105N	
1	FLANGE 4"	65369	5	EA	FLG 4 CL300 RFSO SA105N	



WELD PROCEDURES

- [1] 609.2-S-170 (SMAW)
- [2] 609.2-S-140 (GMAW/SMAW)
- [3] 609.2-S-94-1(SMAW)
- [4] 609.2-S-161 (GMAW)



TYPICAL WELD DETAIL

ANSI/ASME B31.3 PRESSURE PIPING SYSTEM DESIGN DATA

PROCESS	DESIGN PRESS. kPa (psi)	DESIGN TEMP. (°C)	TEST PRESS. kPa (psi)	TEST MEDIUM	MATERIAL SPEC. AND GRADE	PIPE DIAMETER AND SCHEDULE	FLANGE RATING	R.T. %
C02	2" 2241 (325) 4" 2758 (400)	46 (115°C)	2" 3365 (488) 4" 4137 (600)	H20	SA-106-B SA-234-WPB SA-105	2" SCH STD 2" SCH XH 4" SCH STD 4" SCH XH	300#	5

NOTES:

1) WHEN BUTT WELDING XH WALL TO STD WALL PIPE & AND FITTINGS TOGETHER, PREPARE XH PORTION INSIDE WITH A 3:1 TRANSITION TAPER.
2) ALL THREADED CONNECTIONS TO BE SCH 80 OR XH.
3) SHOP TO ADJUST PIPE LENGTH ON WELDED PIPING TO ALLOW FOR WELD GAP AND SHRINKAGE.
4) USE WELD PROCEDURE #4 FOR WELDING STAINLESS STEEL BALL VALVES TO CARBON STEEL.

REV NO.	DRWN	DATE	ENG	PLANT	QC	DESCRIPTION
0	JC	03.08.29				ORIGINATED FROM DWG 2001-0842D, REV. F.

MaXfield Inc.

FILL PIPING ARRANGEMENT
16,500 USWG 90" ID MOBILE CO2 STORAGE TANK

THIRD ANGLE PROJECTION

SEE DRAWING 2002-07070 FOR APPLICABLE TOLERANCES UNLESS OTHERWISE STATED

SCALE: NTS

P/N – 67894

JOB #

DRAWING No. 2003-0840D

REV 0

SHEET 1 OF 1