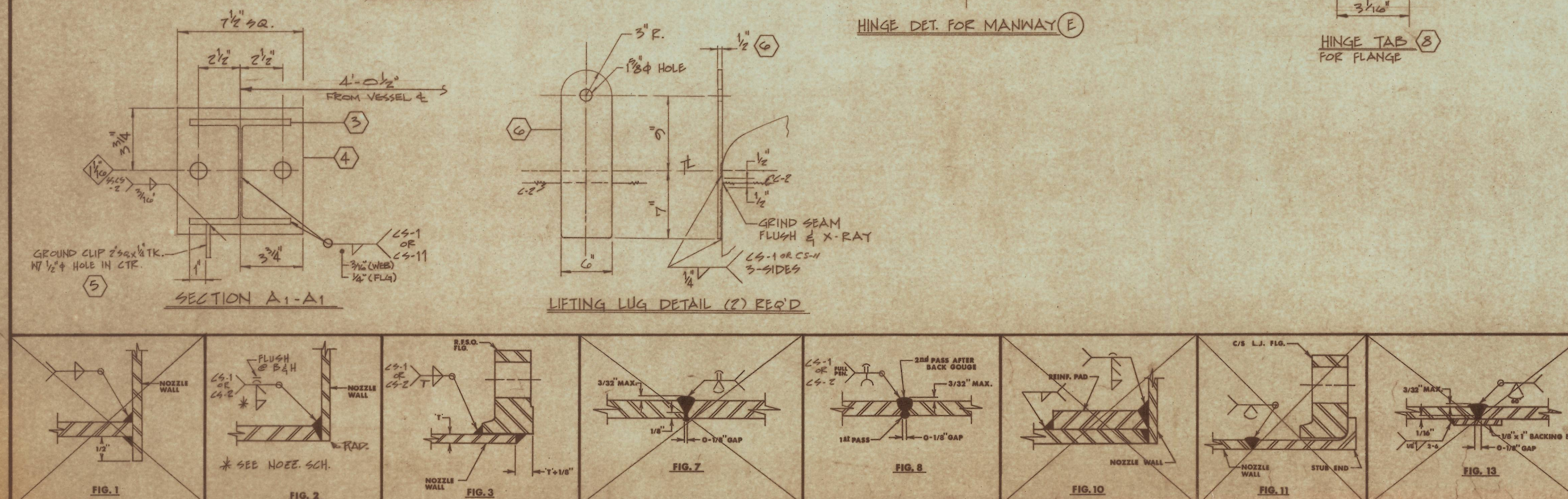
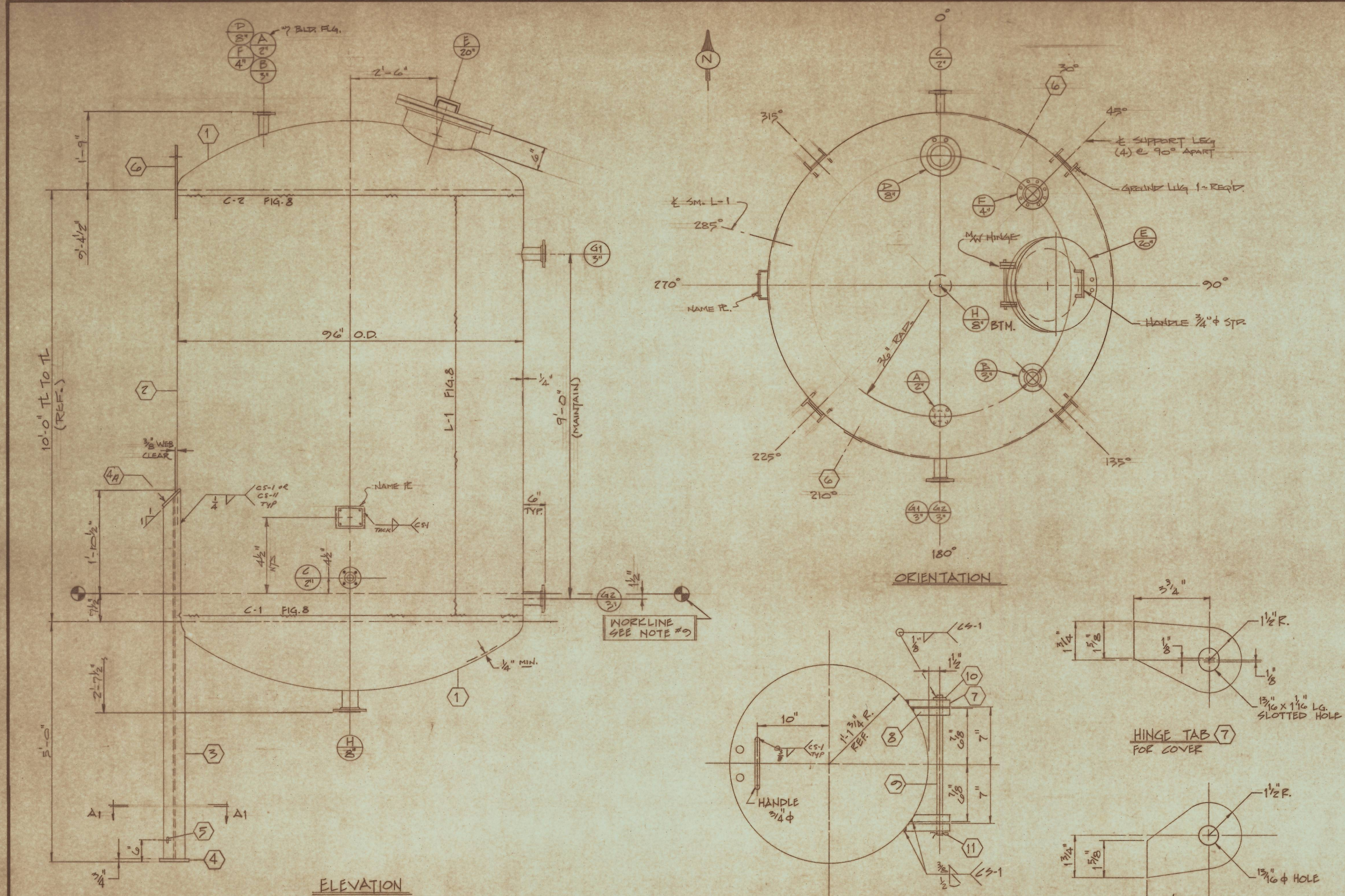




BILL OF MATERIAL					
MK.	QTY	DESCRIPTION	LENGTH FT. IN.	MAT'L SPEC.	RO. NO
1	2	HEADS & SHELL		SA 516-70	19" I-RP
2	1	ASME F4D HDG			5/8" I-RP
3	1	W 76.8" DE. 4 1/2" SF			
4	1	PL 117" x 1/4" x ABT.	25' 0 1/2"	SA 516-70	ROLL TO 9' 0"
5	1	SUPPORT LEG			
6	4	6 WF x 20" x	7 5/4"	SA 36	
7	4	PL 1 1/2" x 3/4" x	0' 7 1/2"	SA 36	
8	4	PL 3/8" x 1/4" x	0 8 1/2"	SA 36	
9	1	GROUND LUG			
10	1	PL 2" x 1/4" x	0' 2"	SA 36	
11	1	LIFTING LUGS			
12	1	MANWAY "E" HINGE			
13	2	PL 3/4" x 1" x	0' 5 1/4"	SA 36	
14	2	PL 3/4" x 1" x	0' 4 1/4"	SA 36	
15	1	BE 3/4" x	1' 5"	SA 36	
16	1	3/4" FLAT WASHER		SA 36	OVERSIZE
17	1	1/8" COTTER PIN		SA 36	
18	1	PHSC 3/4" x 1/2" x		SA 36	
19	1	NOZZLES			
20	1	2" - 150" E.F.S.O. FLG.		SA 105	
21	1	2" - 6CH. 80 PIPE X	1' 1"	SA 53B	
22	1	2" - 150" E.F. BLD. FLG.		SA 105	
23	1	4ASK: 2" - 150" RING X 1/2" TH.		SA 105	
24	4	STUDS: 3/8" x 3/4" x 2 1/2" x		SA 105	
25	1	3" - 150" E.F.S.O. FLG.		SA 105	
26	1	3" - STD. WT. PIPE X	1' 1"	SA 53B	
27	1	2" - 150" E.F.S.O. FLG.		SA 105	
28	1	2" - 6CH. 80 PIPE X	0' 7"	SA 53B	
29	1	2" - 150" E.F.S.O. FLG.		SA 105	
30	1	2" - STD. WT. PIPE X	1' 3"	SA 53B	
31	1	20" - 150" E.F.S.O. FLG.		SA 105	MANWAY
32	1	20" - STD. WT. PIPE X	0' 8"	SA 53B	
33	1	20" - 150" E.F. BLD. FLG.		SA 105	
34	1	4ASK: 20" - 150" RING X 1/2" TH.		SA 105	
35	20	STUDS: 1 1/2" x 1 1/2" x 2 1/2" x		SA 105	
36	1	4" - 150" E.F.S.O. FLG.		SA 105	
37	1	4" - STD. WT. PIPE X	1' 1"	SA 53B	
38	2	3" - 150" E.F.S.O. FLG.		SA 105	
39	2	3" - STD. WT. PIPE X	0' 7"	SA 53B	
40	1	2" - 150" E.F.S.O. FLG.		SA 105	
41	1	2" - STD. WT. PIPE X	0' 7"	SA 53B	
42	1	PHSC CODE NAME PL.		SA 36	
43	1	LARGE NAME PL. DET.		SA 36	

DESIGN DATA			
DESIGN PER ASME SECT. VIII, DIV. 1 ADD. MIN. 85			
DESIGN PRESSURE	40 PSIG		
DESIGN TEMP.	100°F		
HYDRO. TEST	60 PSIG		
RADIOGRAPH	SPOT & PRACTICAL		
CORR. ALLOW.	1/16"		
STRESS RELIEF	NO		
APPROX. WT. EMPTY	3,774 lbs.		
JOINT EFFICIENCY	100%		

IDENTIFICATION DATA			
YEAR BUILT	1986		
ORDER NO.	N-830		
NAT'L. BO. NO.	LATER		
MAX. A.W.P.	40 PSI AT 100 OF		
CUST. P.O. NO.	52-60104XMS		
ITEM NO.	MB-820		

NOTES			
1. ALL BOLT HOLES TO STRADDLE NORTH & SOUTH VESSEL CENTERLINES UNLESS OTHERWISE NOTED.			
2. EACH NOZZLE & MANHOLE REINFORCING PAD OR SEGMENT THEREOF SHALL HAVE TWO 3/8" D.T. TEST HOLES LOCATED AT 90° OFF LONGITUDINAL AXIS.			
3. VESSEL SHALL BE CLEANED INSIDE & OUTSIDE, FREE OF DIRT, GREASE, DEBRIS, LOOSE MILL SCALE, WELD SPATTER, ETC.			
4. WIRE BRUSH ALL WELDS & BREAK ALL SHARP EDGES.			
5. INSTALL MASONITE PROTECTORS ON ALL OPENINGS BEFORE SHIPMENT.			
6. PROTECT ALL MACHINED SURFACES WITH A RUST PREVENTATIVE BEFORE SHIPMENT.			
7. LIFTING LUGS ARE INSTALLED TO SET THIS UNIT INITIALLY WHEN EMPTY ONLY.			
8. INSPECTION BY G.C. ✓, A.I. ✓, CUSTOMER ✓			
9. ALL TAIL DIMENSIONS ARE TO THE WORKLINE WHERE APPLICABLE. WORKLINE TO BE PERMANENTLY STAMPED INSIDE, OUTSIDE OF VESSEL ON APPROXIMATELY 8" CENTERS.			
10. FOR ITEMS MARKED "M" MTR IS REQ'D. TRANSFER HEAT NUMBERS PER CODE.			
11. COMM. SANDBLAST ALL EXTERIOR SURFACES PER SHOP STD. AND APPLY (1) 1/2" EPOXY PRIMER, EQ. TO 3 MILS. D.F.T.			
12. NOMINAL VESSEL CAPACITY = 4000 GALS.			
13. ASK. MAT'L: JM-960 OR EQ. (NON-ASB.)			

REVIEWED			
Eng	RJB	Date	4/14/86
QC		Date	

NOZZLE SCHEDULE			
NO.	DATE	REVISION	BY
1	8/26	AS BUILT	DR
2	8/26	REVISED PER CUST. MTR UP	DR
3	8/26	APPROVAL DWG. DATED 4-1-86	DR
4	8/26	SUBMITTED FOR APPROVAL	DR