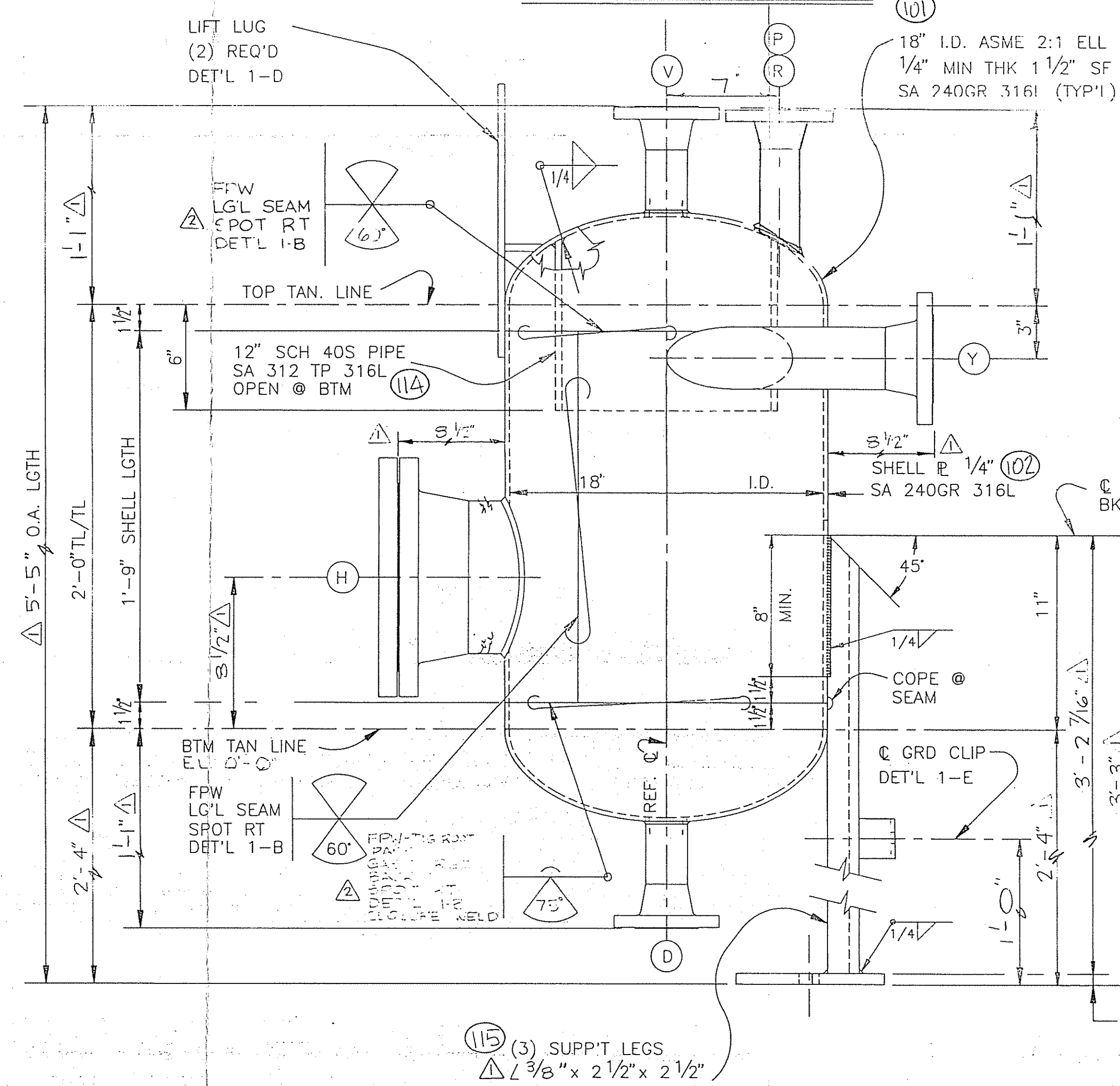
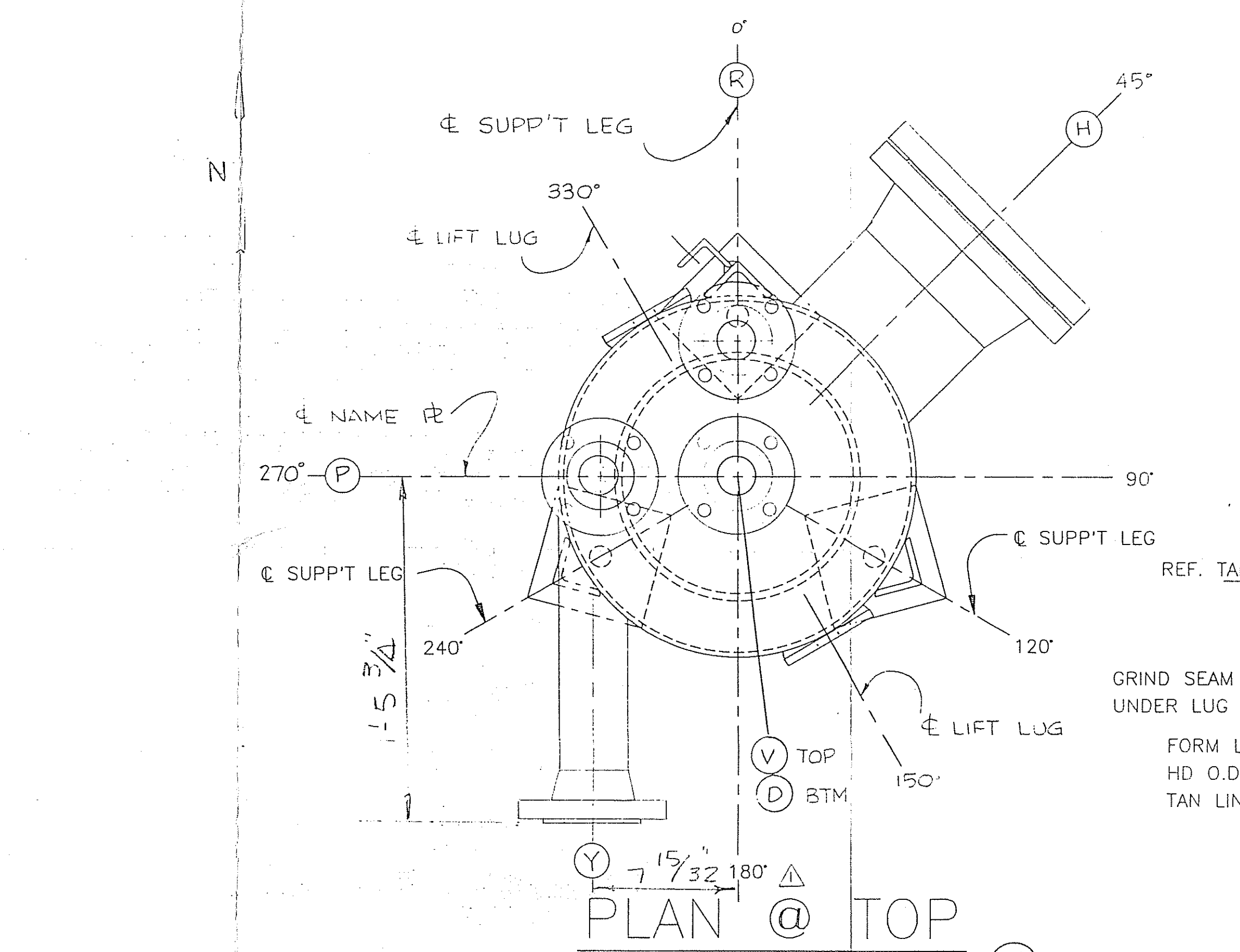




NOTE: NOZZLES SHOWN IN ELEV. HAVE BEEN ROTATED FOR CONVENIENCE

3/16 F.S.

WASHINGTON WORKS		PROJECT# 9175	
EQUIP. NO.	EN 7102-2005-29	P.O. NO.	LPWC-98883U
NEW JOB NO.	6156	NEW CERT. NO.	5438
CODE REF.	ASME SEC VIII DIV 1 1989 ED	TEST POSITION	HORIZ
TYPE UNIT	VERT	VOL. CAP.	35 GAL.
SHELL	18" I.D.	LOTH	2'-0" TL/TL
HEAD	RAD.	HEAD: RAD.	2:1
SHELL	SA 240 GR 316L	CORR. ALLOW.	1/16"
HEADS	SA 240 GR 316L	NOM. THK	1/4"
		TEST PRESS.	77
WTS: (EMPTY= 473) (FULL H2O= 725) (FULL PROD.= 1053)			

NAT'L. BD. LATER (NAT'L. BD. SERIAL NO.)

CERTIFIED BY MITTERNIGHT BOILER WORKS, INC. (NAME OF MANUFACTURER)

W VESS 50/FV PSI @ 250 'F

RT 3 PSI @ 250 'F

MIN. DESIGN METAL TEMP. 0 'F @ 50/FV PSI

2868 (MANUFACTURER SERIAL NO.)

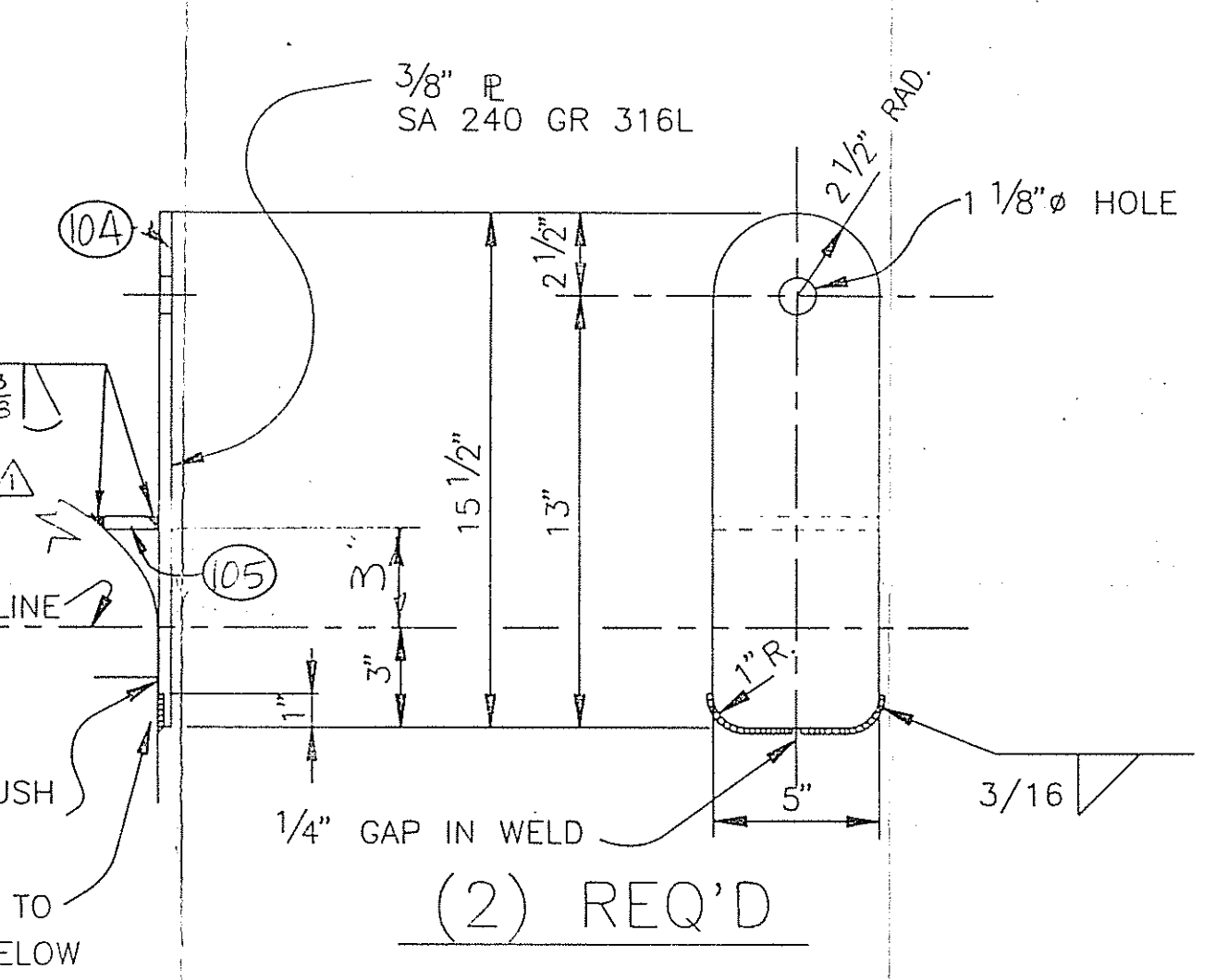
1992 (YEAR BUILT)

PLANT NO.

WELD PROCEDURES

MAT'L	JOINT	PRIMARY PROCEDURE	ALT PROCEDURE
316 316L	DBL BUTT INS ROOT & CAP	GMAW 8-2135	SMAW 8-0135
316 316L	DBL BUTT OUTSIDE	SAW 8-5135	
316 316L	INS. ROOT & CVR. OPTION	SAW 8-5135	GTAW 8-1435
316 316L	SINGLE BUTT	GTAW 8-1435	
316 316L	SING. BUTT O.S. CVR. OPTION	GMAW 8-2135	SMAW 8-0135
316 316L	PENETRATIONS & ATTACH'S	GMAW 8-2135	SMAW 8-0135

VESSEL EXEMPT FROM IMPACT TEST PER U-1-A-51



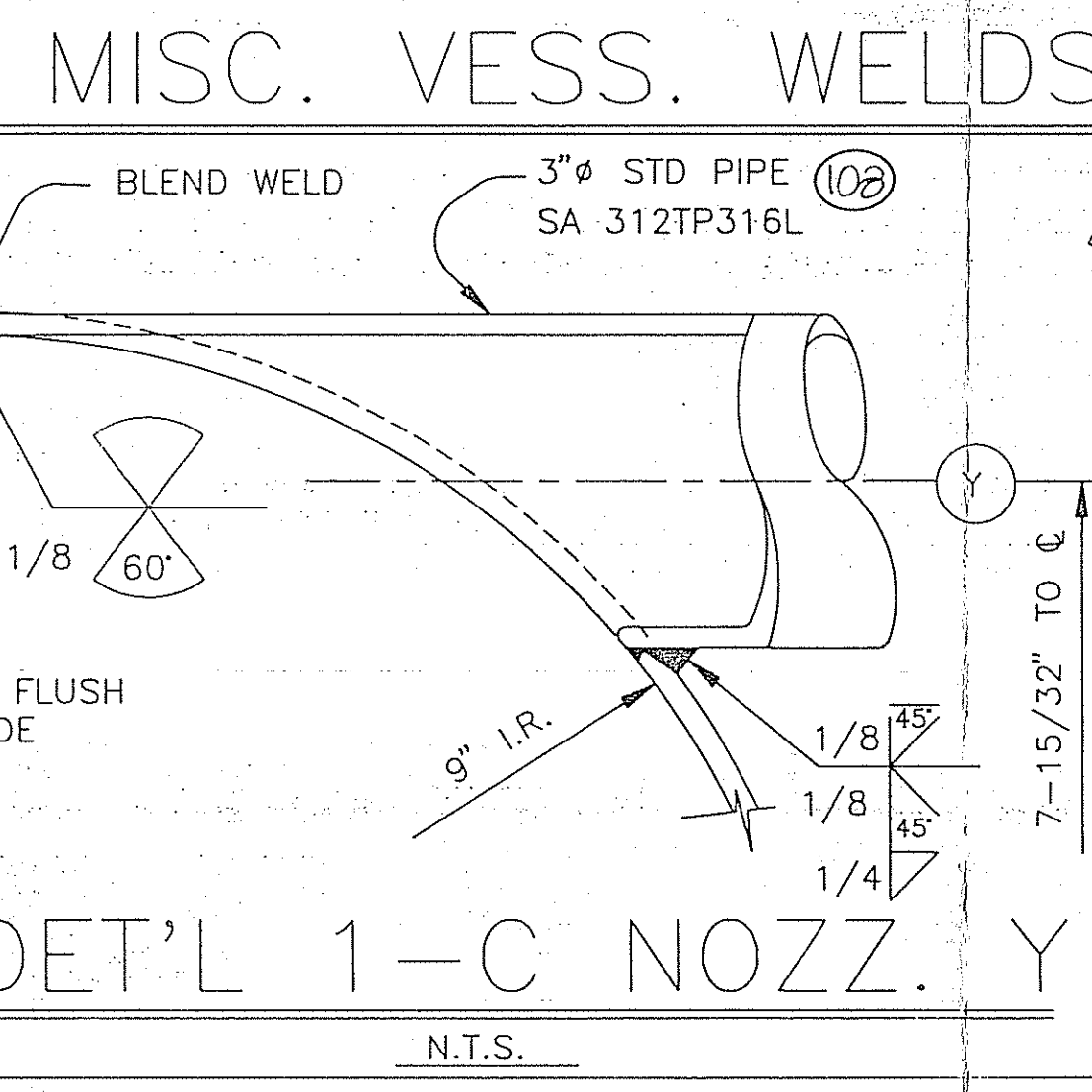
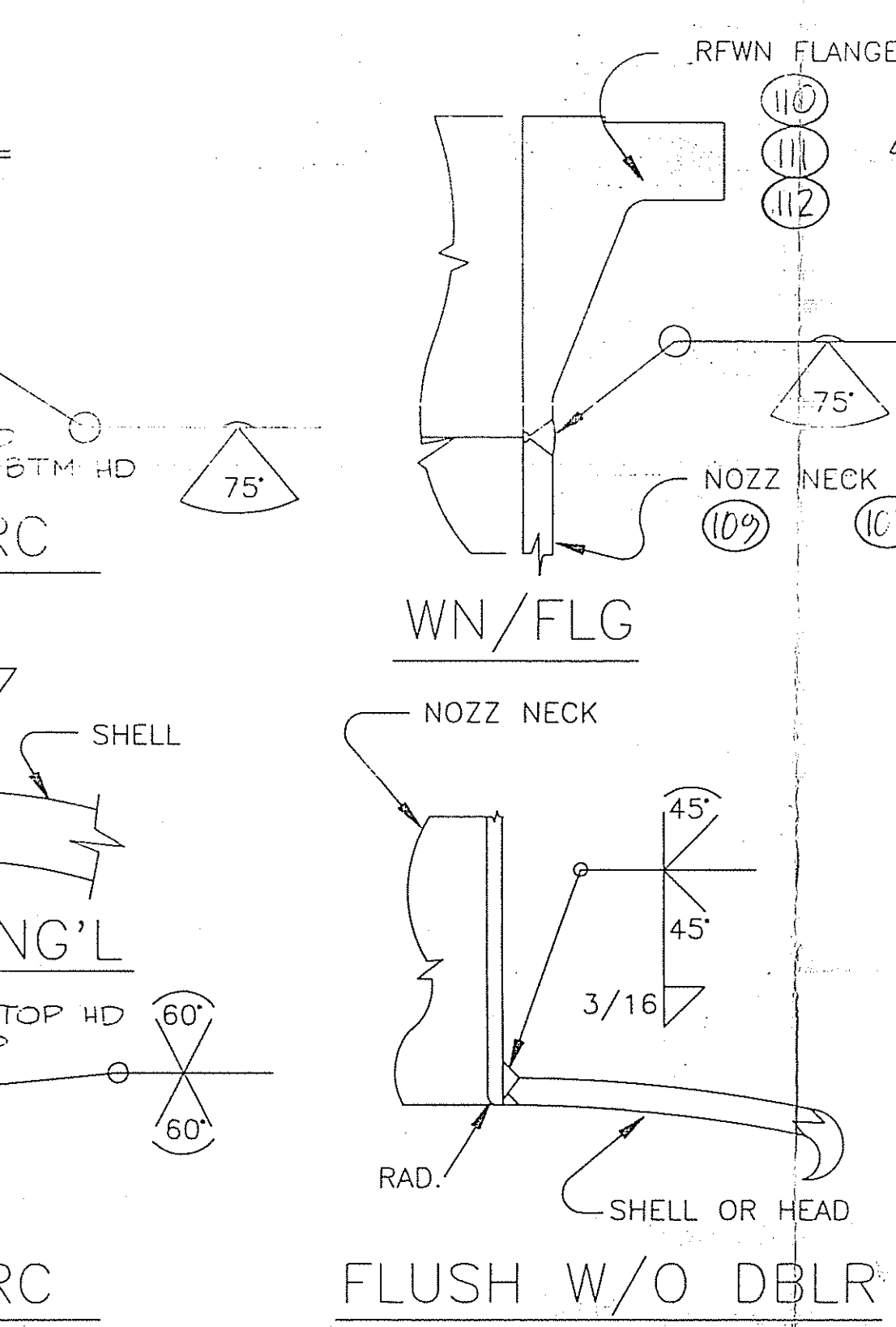
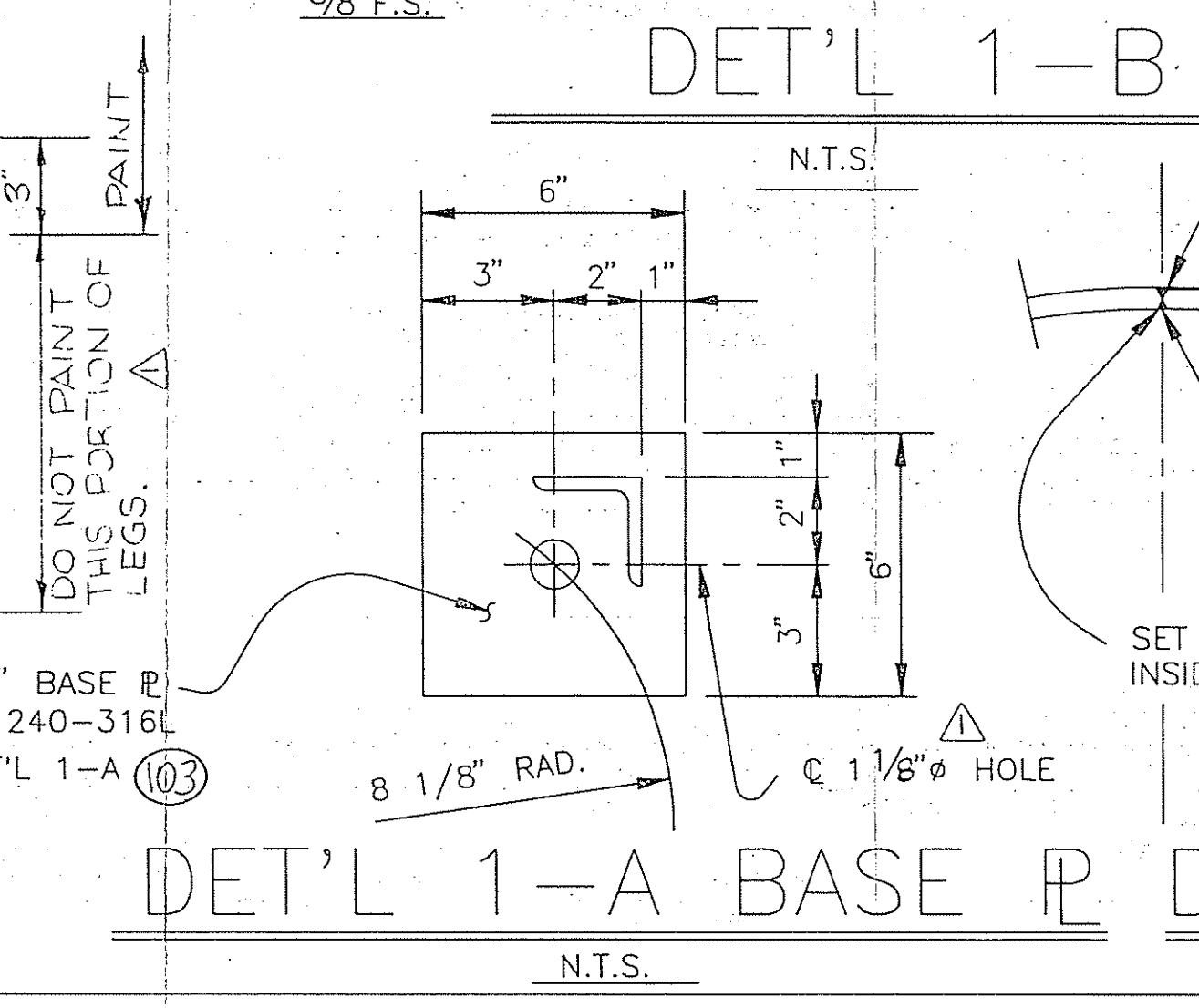
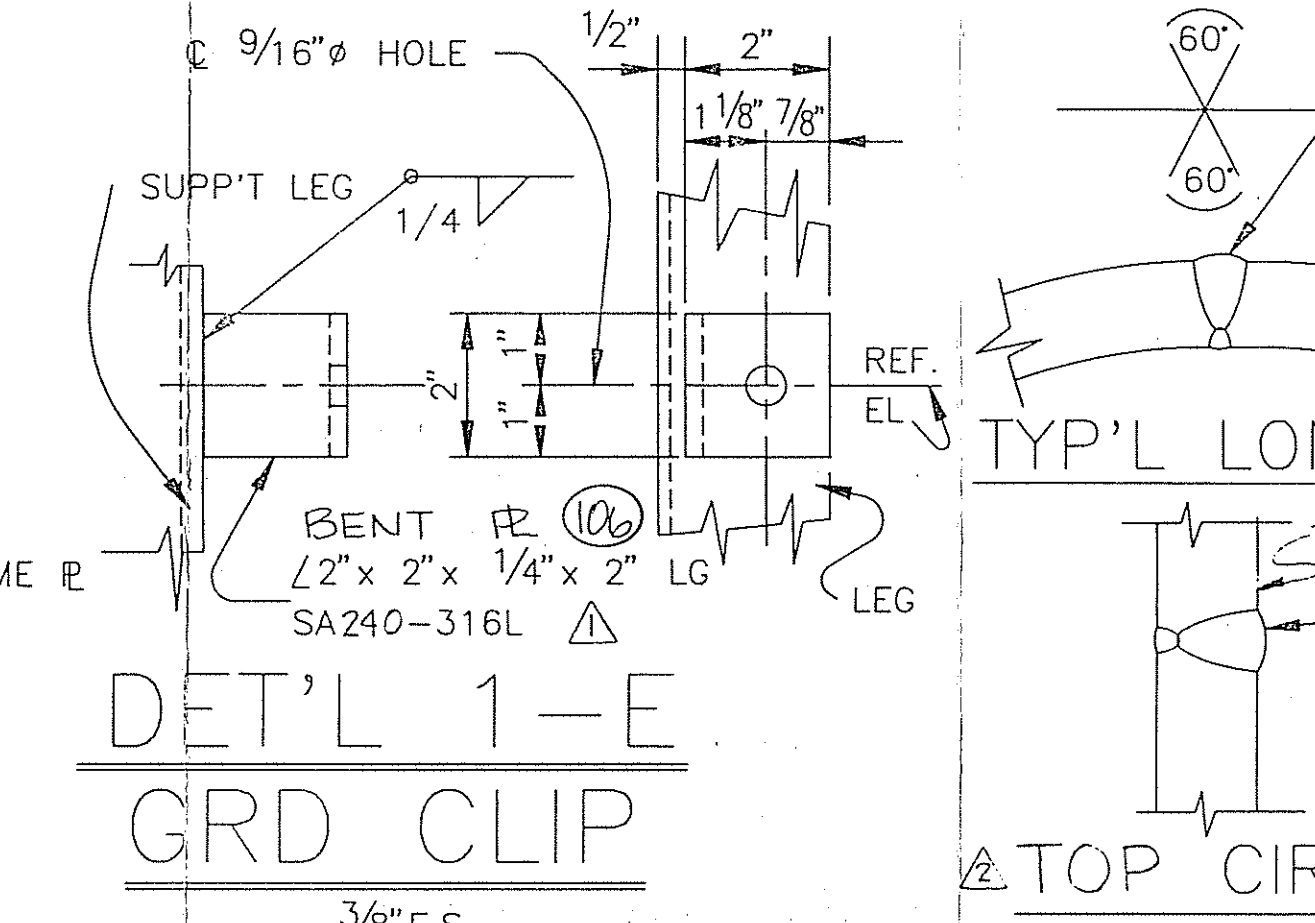
NOTE: SPREADER BARS MUST BE USED FOR LIFTING VESSEL.

DET'L 1-D LIFT LUGS

N.T.S.

BOLTING @ "H"

8" 150# RF/BLD	W/11" O.D. x 10 3/4" I.D.
x 1/8" GARLOCK 3510	W/8 3/4" x 4 3/4"
STUDS W/(2) NUTS EA.	



NOZZLE SCHEDULE

MARK	SIZE	SCH	THK	PRESS	TYPE	FAC'G	FINISH	SERVICE	QUAN	Q. PROJ	ELEV	ORIENT
Y	3"	STD	.216	150	WN	RF	LA	INLET	1	1'-5 3/4"	1'-9"	180°
V	2"	STD	.154	150	WN	RF	RA	OUTLET	1	TOP	HD	-
P	2"	STD	.154	150	WN	RF	SP	PRESSURE GAUGE	1	TOP	HD	270°
D	2"	STD	.154	150	WN	RF	SP	DRAIN	1	BTM	HD	-
H	8"	STD	.322	150	WN	RF	500A	W/BLD FLG	1	1'-5 3/4"	8 1/2"	45°
R	2"	STD	.154	150	WN	RF	125A	RELIEF	1	TOP	HD	0°

- ### GENERAL NOTES
- ALL BOLT HOLES SHALL STRADDLE VESSEL MAJOR C'S
 - ALL WELDS SHALL BE NEAT & FREE OF DEFECTS.
 - FABRICATION TOLERANCES TO BE PER SG1S FIG 1.
 - REF. SPEC: 2-98883, SG1S, SG6C, SG2, SG14.1S, SU2A, G6B, G1C, SG4A
 - ALLOY WELDS ARE TO BE POWER-BRUSHED W/ S/S BRUSHES 3" MIN. EA SIDE OF WELD TO REMOVE ARC CONTAMINATION, DISCOLORATION, SPLATTER, ETC.
 - ALL BRUSHES, GRINDING WHEELS USED ON STAINLESS STEEL ARE TO BE NEW OR HAVE NOT BEEN PREVIOUSLY USED ON CARBON STEEL.
 - INSIDE OF VESSEL TO BE CLEANED USING DETERGENT AND HAND SCRUBBING. RINSE WITH CLEAN WATER AND DRY ALL INSIDE SURFACES USING LINTFREE CLOTH OR OTHER MEANS PER SPEC. 2-98883 SECT. 4.A. (AIR DRYING AND/OR COMPRESSED AIR DRYING ARE NOT ALLOWED)
 - VESSEL SHALL BE SEALED IMMEDIATELY AFTER HAVING BEEN CLEANED, DRIED & INSP.
 - OPEN NOZZLES SHALL BE SEALED WITH FULL-FACE RUBBER GASKET HELD IN PLACE WITH A 1/2" THK. EXT. GRADE PLYWOOD COVER PAINTED ON BOTH SIDES AND FASTENED WITH A FULL COMPLEMENT OF INEXPENSIVE BLACK BOLTS PER SG1S.
 - CHECK 316L (EACH HEAT) FOR MOLYBDENUM PER DUPONT SPEC. SG2T.
 - FOR SEPARATION FMS 4 HANDLING REF. MAN. MAT'L CONTROL PROCEDURE 4.32 (HOLESS SH'S IN THIS PROCEDURE DOES NOT APPLY)
 - ONLY APPROVED MARKERS SHALL BE USED. PER SPEC. 2-98883 SECT. 5B4.
 - 2 1/2" POLYISOCYANURATE INSULATION BY OTHERS.

DESIGN DATA

DESCRIPTION	VESEL
DESIGN PRESSURE	INTERNAL -PSIG 50 EXTERNAL -PSIG FV
DESIGN TEMPERATURE	INTERNAL ---F 250 EXTERNAL ---F 250
MAX ALLOW WKG PRESS@ 250'F LIMITED BY	50/FV
CORROSION ALLOWANCE:	NOZZLES: 1/16" 1/16"
TEST PRESSURE-HYDROSTATIC (AMBIENT) PSIG	77
MIN DESIGN METAL TEMP. 0'F @ PSI	50/FV
RADIOGRAPHING	SPOT
DESIGN JOINT EFF	85%
HEAT TREATMENT	NOT REQ'D WIND/EARTHQUAKE LOADING 15 PSF/ZONE 1

MATERIAL SPECIFICATIONS

VESEL	INTERNALS
SHELL	SA 240 GR 316L
HEADS	SA 240 GR 316L
SUPPORT	SA 240 GR 316L
CLIPS	SA 479 GR 316L
FLANGES	SA 182 F 316L
PIPE/BAFF.	SA 312 TP 316L
BOLTS/NUTS	SA 193 B7/SA 194 2H
GASKETS	GARLOCK 3510 (G49H PER SU2A)

GENERAL DATA

VESSEL CONSTRUCTION ASME SEC VIII DIV 1 1989 ED. INCL 1990 ADDENDA

STAMP & REGISTRATION ASME U-1 (2868) NAT'L BD () INSPECTION BY: CUC, MBW & CUST

REFERENCE DATA DUPONT P.O. & DATA DWG SKETCH SPEC 2-98883

VESSEL DESIGNATED FOR DUPONT WASHINGTON WORKS PARKERSBURG, WV

VESSEL WEIGHTS: EMPTY- 493# CAPACITY- 35 GAL TEST- 725#

SPEC 10473

PAINTING REQUIREMENTS

TAG ITEM NO: EN 7102-2005-29 NO. UNITS REQ'D AS SHOWN: (1) ONE

REVISIONS

REV	DATE	DESCRIPTION
1	11-20-91	JRS
2	12-10-91	JRS
3	12-10-91	JRS
4	12-10-91	JRS
5	12-10-91	JRS

MITTERNIGHT BOILER WORKS, INC. MT VERNON AL SATSUMA AL

TANK-SURGE EN 7102-2005-29

VESS. ARRGT & DATA

DUPONT PARKERSBURG, WV

CUSTOMER ORDER NUMBER LPWC-98883U JOB NUMBER 6156 DRAWING NUMBER D6156-29-1

DATE 10-2-91

DATE 12-9-91

DATE 1-10-92

SCALE NOTED