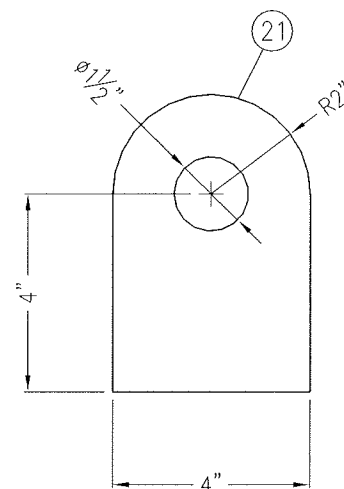
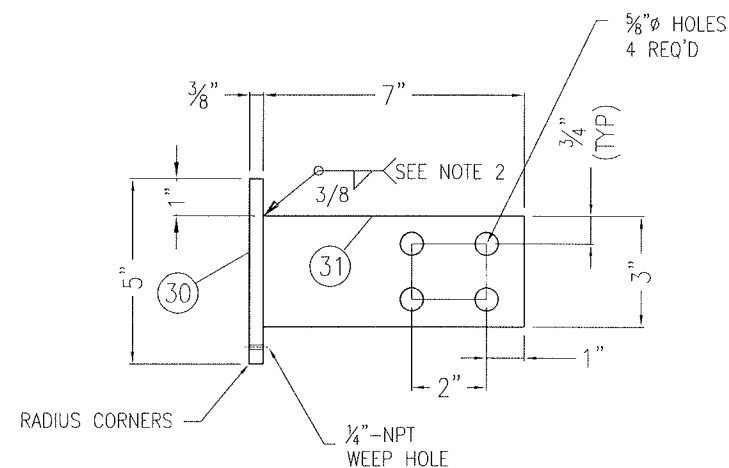


BASE PLATE GUSSET
SCALE: 3"=1'-0"



LIFTING LUG
SCALE: 3"=1'-0"



PLATFORM CLIP DETAIL
N.T.S. (C.T.S.)

SHELL LAYOUT BY: _____
NOZZLE FIT BY: _____
HEAD LAYOUT BY: _____
FINAL ASSEMBLY BY: _____

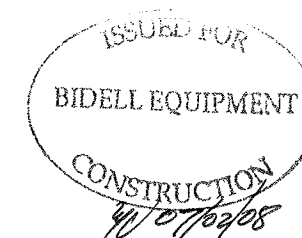
NOTES:

- DO NOT SCALE THIS DRAWING
- FOR TACK WELDS AND ATTACHMENT WELDS USE BE-1/BE-2
- FOLLOWING MAT'LS CONSTITUTE ACCEPTABLE ALTERNATES:
USE SA-333-6 IN PLACE OF SA-106-B
USE SA-350-LF2 CLASS 1 IN PLACE OF SA-105N
USE SA-420-WPL6 IN PLACE OF SA-234-WPB
- 2" THREADOLET TO HAVE MAX. HOLE OF NO GREATER THAN 2 1/8" O.D.
- CRN'S REQ'D FOR AB, BC & SK
- ALL REPADS, POISON PADS, SADDLES, ETC (IF APPLICABLE) REQUIRE ONE 1/4" NPT WEEP HOLE EACH (AT LOWEST POINT)
- ALL REPADS SHOWN WITH SOLID LINES SHALL BE ONE PIECE NO SPLIT PERMITTED
- ALL REPADS SHOWN WITH HIDDEN LINES ARE FOR MECHANICAL REINFORCEMENT ONLY
- SUCTION BOTTLE DRAINS TO HAVE 1/4" WEEP HOLE/SLOT ABOVE INTERNAL WELD, BOTH SIDES OF PIPE
- SCRUBBER DRAINS CONTOURED FLUSH TO VESSEL I.D.
- WITH THE EXCEPTION OF DRAIN CONNECTIONS, SHOP MAY ADD ADDITIONAL INTERNAL PROJECTION AND INTERNAL WELD FOR EASE OF FABRICATION
- FLANGE BOLT HOLES TO STRADDLE NATURAL CENTERLINES OF THE VESSEL UNLESS OTHERWISE SPECIFIED
- TOLERANCES TO BE WITHIN BIDELL STANDARD UNLESS OTHERWISE SPECIFIED

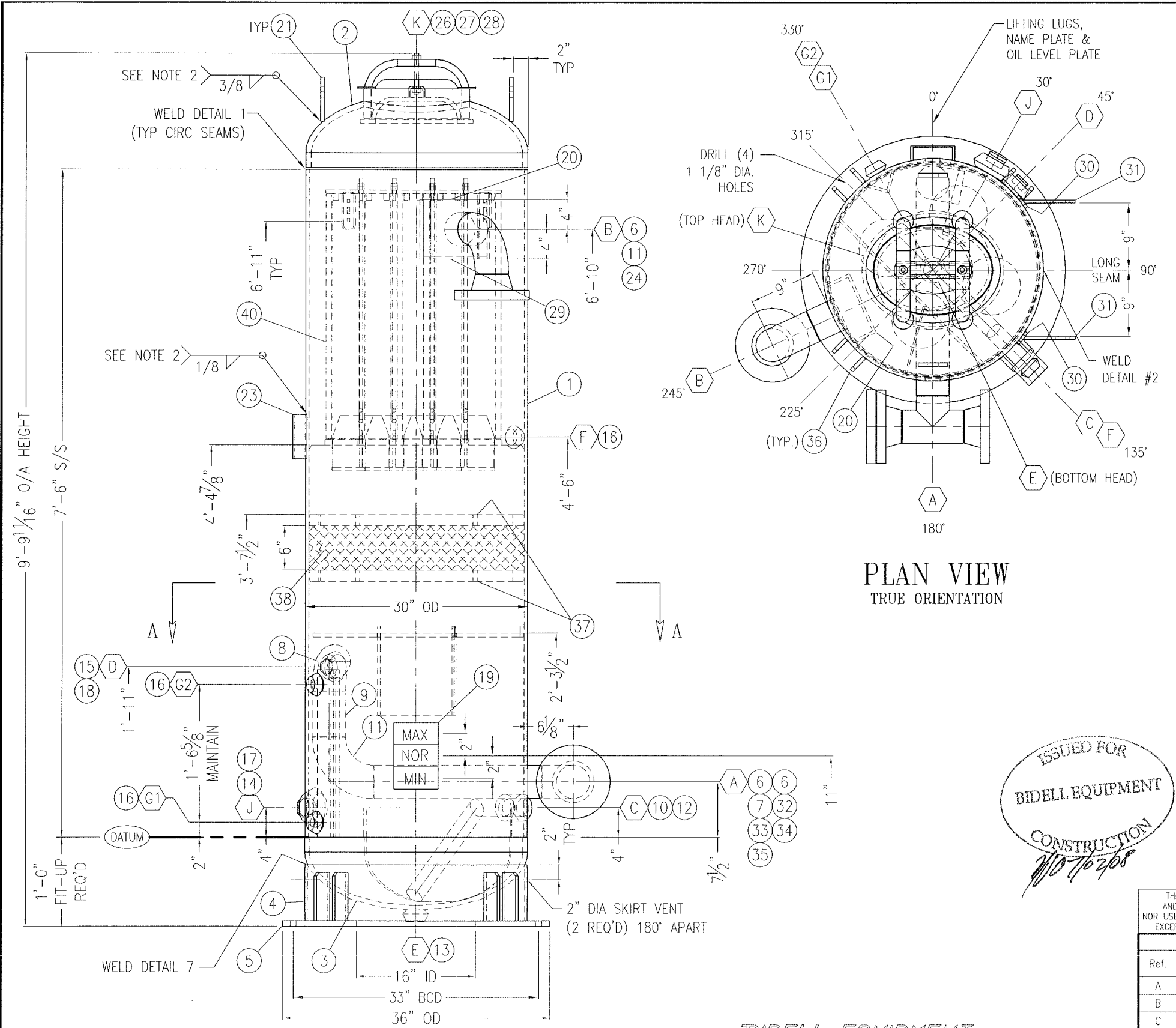


Vessel to be constructed in strict accordance with the ASME Code for Pressure Vessels Section VIII Div. 1, 2004 Edition, 2005 Addenda.

	MAWP		HYDROTEST PRESS	
Internal	450 PSIG		585 PSIG	
External	ATMOS		ATMOS	
Temperature	300°F		AMBIENT	
Min. Design Metal Temp.		-20°F @ 450 PSIG		
Radiography		RT- 1		
Corr. Allowance		0.125 in		3.18 mm
Impact Tests		NIL PER UG-20(f)1-5		
Postweld Ht Tr:		1150°F ±25°F FOR 1 HOUR		
Wt, full of water	lb	kg	Shipping Wt.	2910 lb 1320 kg
Volume		42.3 ft ³		1.20 m ³
Service:		SOUR GAS SERVICE		
Registration Numbers:		WP 2111.2		AQP 1338
Special Procedures:				
Serial No.		05-412-508		
CRN:				
LSD:				
Interior Surface Prep.		PICKLED & RUST PROTECTED		
Exterior Surface Prep.		PICKLED		
Finish		ONE COAT OF SHOP PRIMER		
Insulation		NONE		
Checked By:		Date: 07-02-08		
Approved By:		Date: 07-02-08		



0	07-02-08	BES	LS	ISSUED FOR CONSTRUCTION
REV	DATE	BY	APPR	DESCRIPTION
REVISIONS				
DRAWN: BES				LUBE OIL SEPARATOR 30" OD x 7'-6" S/S
DATE: 07-01-22				
SCALE: 3/4" = 1'-0"				
				CUSTOMER: BIDELL EQUIPMENT
				PROJECT: STOCK
				SHOP ORDER: 05-412
6900 - 112th AVENUE SE CALDWELL, ID 83605				DRAWING NUMBER: 05-412-508 REVISION: 0 SHEET: 1/3



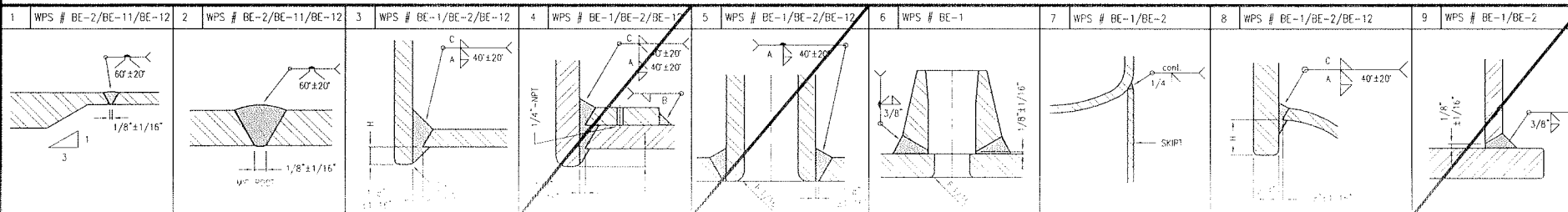
BILL OF MATERIAL						
Item	No. Req'd	Size	Description	Mat'l Spec.	HEAT No/CODE	
1	ONE	30"	OD x 1/2" Nom t. x 7'-6" LG, ROLLED PLATE (MIN THK 0.500")	SA-516-70N		
2	ONE	30"	OD x 3/4" Nom t. 2:1 SE HEAD c/w 2" SF (MIN THK 0.6875")	SA-516-70N		
3	ONE	30"	OD x 5/8 Nom t. 2:1 SE HEAD c/w 2" SF (MIN THK 0.5625)	SA-516-70N		
4	ONE	30"	OD x 3/8" t. ROLLED PLATE x 7 1/2" LG	SA-516-70N		
5	ONE	3/4"	t. BASE PLATE 3'-0" O.D. x 1'-6" I.D.	SA-36		
6	3	4"	300# RFWN FLANGE - SCH XXH BORE	SA-105N		
7	ONE	4"	SCH XXH SMLS PIPE x 1'-10 1/2" LG - BBE	SA-106-B		
8	ONE	4"	SCH XXH SR 90 Deg. ELBOW	SA-234-WPB		
9	ONE	4"	SCH XXH WALL PIPE x 6" LG -BBE	SA-106-B		
10	ONE	2"	SCH XXH SMLS PIPE AS REQ'D	SA-106-B		
11	2	4"	SCH XXH LR 90 Deg. ELBOW	SA-234-WPB		
12	ONE	2"	6000# F.S. FULL THREADED COUPLING	SA-105N		
13	ONE	1"	3000# F.S. THREDOLET ON FLAT RUN	SA-105N		
14	ONE	2"	3000# F.S. THREDOLET ON 30" RUN	SA-105N		
15	ONE	1 1/2"	3000# F.S. THREDOLET ON 30" RUN	SA-105N		
16	3	3/4"	3000# F.S. THREDOLET ON 30" RUN	SA-105N		
17	ONE	2"	6000# F.S. HEX HEAD PLUG	SA-105N		
18	ONE	1 1/2"	6000# F.S. HEX HEAD PLUG	SA-105N		
19	ONE	6"x9"	OIL LEVEL PLATE c/w MOUNTING BRACKET	SA-36		
20	ONE	3/8"	t. PLATE x 8" WIDE x 15" LG (BEND)	SA-516-70N		
21	2	1/2"	t. PLATE x 4" WIDE x 6" LG (SEE DETAIL SHT.1)	SA-36		
23	ONE	6"x 6"	ASME NAME PLATE MOUNTING BRACKET	SA-36		
24	ONE	4"	SCH XXH SMLS PIPE x 4 1/2" LG - BOE,POE	SA-106-B		
26	ONE	1"	t 12" x 16" ID x 4" LG ELLIPTICAL OPENING - CRN: OH7379.521 MAWP = 589 PSIG @ 700°F (CK)	SA-106-C		
27	ONE	9/16"	t 12" x 16" ELLIPTICAL OPENING COVER	SA-516-70		
28	ONE	1/8"	t 12" x 16" GASKET	VITON		
29	ONE	3/8"	t. PLATE x 3 11/16" WIDE x 8" LG x 14 7/16" OR. c/w 1/4"Ø WEEP HOLE (INLET DEFLECTOR)	SA-516-70N		
30	2	3/8"	t. PLATE x 2" WIDE x 5" LG (c/w 1/2" RAD ON CORNERS)	SA-516-70N		
31	2	3/8"	t. PLATE x 3" WIDE x 7" LG (SEE DETAIL SHT.1)	SA-36		
32	ONE	4"	300#RF SPIRAL WOUND GASKET	316SS		
33	ONE	4"	300#RF BLIND FLANGE	SA-105N		
34	8	3/4"	DIA. x 4 1/2" LG BOLTS c/w NUTS	B7M/2HM		
35	ONE	4"	SCH XXH STRAIGHT TEE	SA-234-WPB		
36	8	3/8"	t x 2 1/2" WIDE x 6 1/2" LG GUSSETS (SEE DETAIL SHT.1)	SA-36		
37	10	3/8"	t. x 1 1/2" FLAT BAR MESH SUPPORTS	SA-516-70N		
38	ONE	6"	t. 9# DENSITY 316SS MESH PAD c/w CS GRIDS x 2'-5" O.D.	316SS		
39	ONE	1/2"	t. PLATE x 2'-4 13/16" O.D. (SEE DETAIL SHT.3)	SA-516-70N		
40	4	-	44306 FILTER ELEMENT (SEE DRAWING BES-508C-01 REV D)	-		

WELD I.D./WELDER SYMBOLS/FIT-UP									
Weld I.D.	Welder Symbol	Fit-Up Exam.	Weld I.D.	Welder Symbol	Fit-Up Exam.	Verify Type 1 Joint	Col 'B'	Col 'C'	Col 'D'
L-			C-						
L-			C-						
L-			C-						
L-			C-						

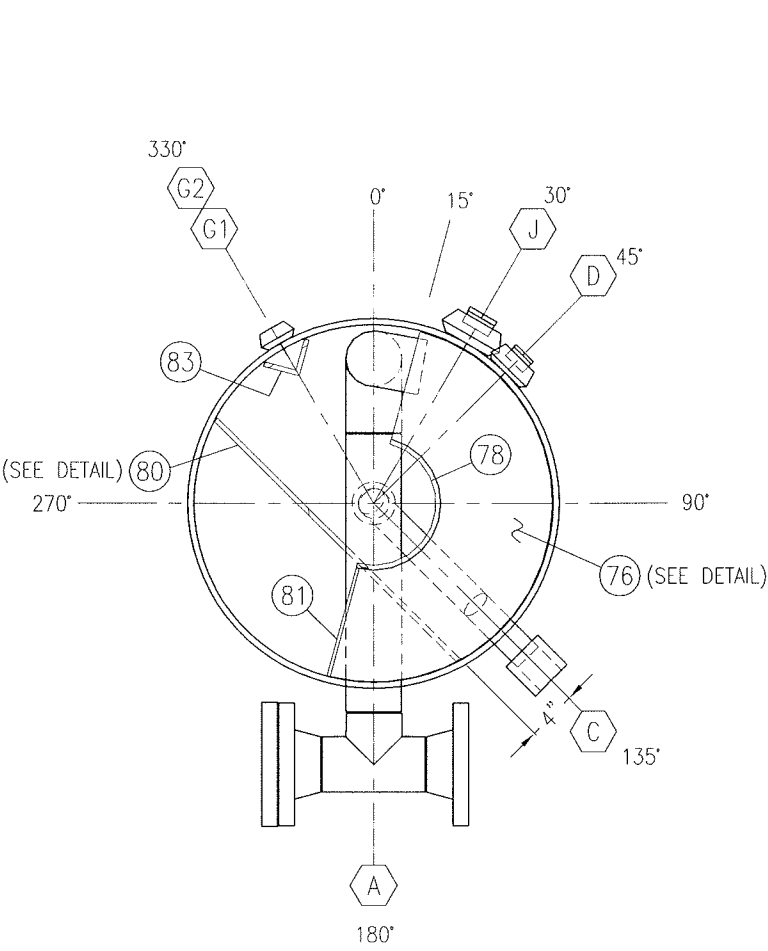
S/N:

THIS DRAWING IS SOLE PROPERTY OF BIDELE EQUIPMENT AND SHALL NOT BE REPRODUCED, COPIED, LENT, ALTERED NOR USED FOR ANY PURPOSE OTHER THAN WHICH IT IS FURNISHED EXCEPT WITH THE WRITTEN PERMISSION OF BIDELE EQUIPMENT

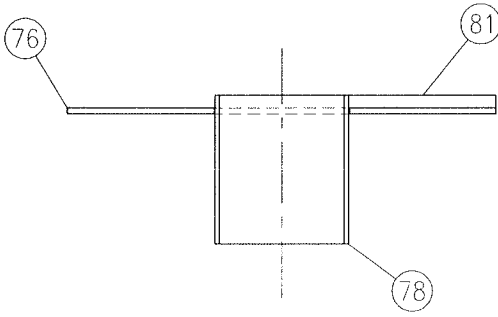
NOZZLE SCHEDULE											
Ref.	Size	Rating	Type	Service	FILLET WELD SIZE				PROJECTION		Repad
					W.D.	A (W41)	B (W42)	C (W43)	H	EXT. PROJ.	
A	4"	300#	RFWN	GAS INLET	2,3	3/8"	—	3/8"	3/8"	AS NOTED	NO
B	4"	300#	RFWN	GAS OUTLET	2,3	3/8"	—	3/8"	3/8"	AS NOTED	NO
C	2"	6000#	CPLG	OIL OUTLET	3	3/8"	—	3/8"	3/8"	—	—
D	1 1/2"	3000#	TOL	FILL CONNECTION	6	3/8"	—	—	—	—	—
E	1"	3000#	TOL	DRAIN	6	3/8"	—	—	—	—	—
F	3/4"	3000#	TOL	OIL RETURN	6	3/8"	—	—	—	—	—
G, I, 2	3/4"	3000#	TOL	GAUGE GLASS	6	3/8"	—	—	—	—	—
H											
J	2"	3000#	TOL	INSPECTION OPENING	6	3/8"	—	—	—	—	—
K	12"x16"		PIPE	ACCESS HATCH / INSPECTION OPENING	8	1/2"	—	5/8"	5/8"	2 3/4"	—
L											
M											



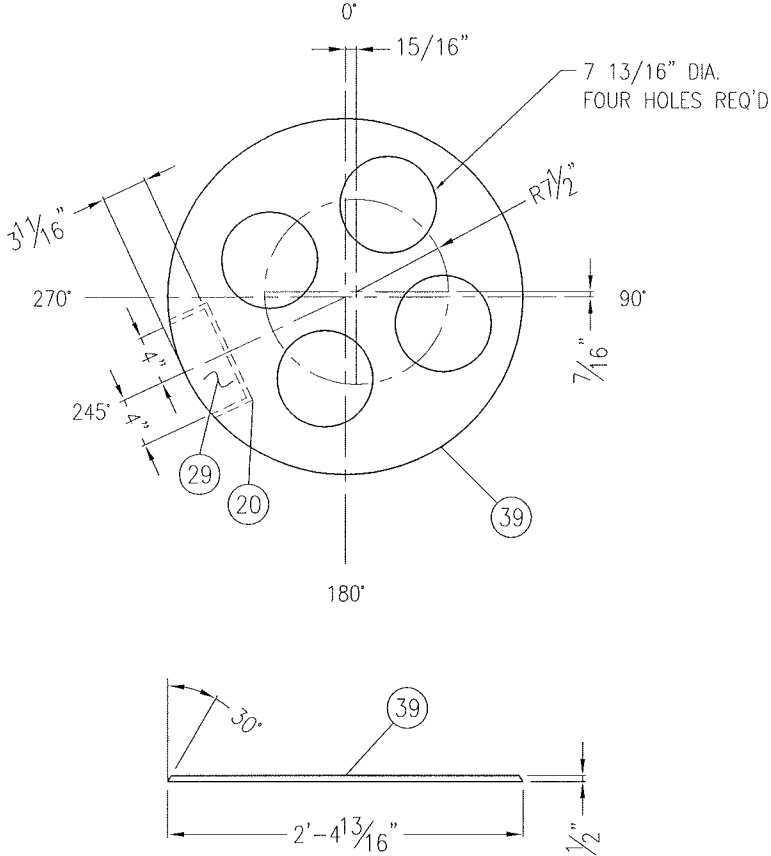
BILL OF MATERIAL					
Item	No. Req'd	Size	Description	Mat'l Spec.	HEAT No/CODE
76	ONE	1/2"	t. PLATE x 1'-2 7/16" x 2'-4 7/8" LG (SEE DETAIL)	SA-516-70N	
78	ONE	10"	STD WALL SMLS PIPE x 1'-0" LG (CUT IN HALF LENGTHWISE)	SA-106-B	
80	ONE	3/8"	t. PLATE x 1'-0 11/16" WIDE x 2'-3 3/8" LG (SEE DETAIL)	SA-516-70N	
81	ONE	1/4"	t. x 1" FLAT BAR x 9" LG	SA-516-70N	
83	ONE	3/8"	t. x 3" x 3" ANGLE x 1'-10 5/8" LG	SA-516-70N	



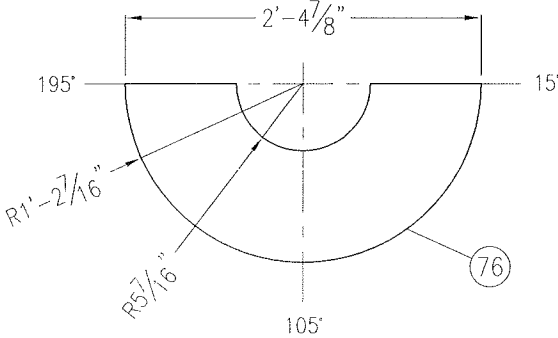
SECTION 'A-A'
TRUE ORIENTATION



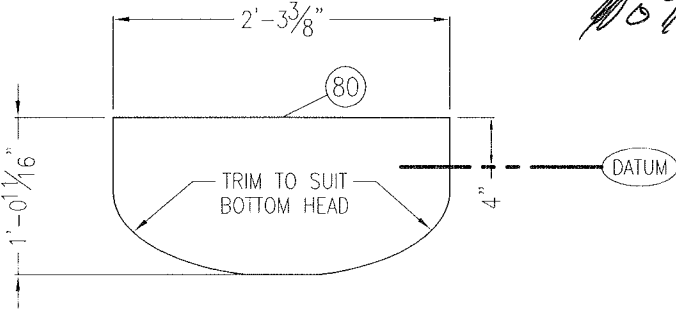
ITEM #76, 78 & 81
ELEVATION



ITEM #39 DETAIL
(TUBE SHEET)



ITEM #76 DETAIL



ITEM #80 DETAIL

ISSUED FOR
BIDELL EQUIPMENT
CONSTRUCTION
No 76268