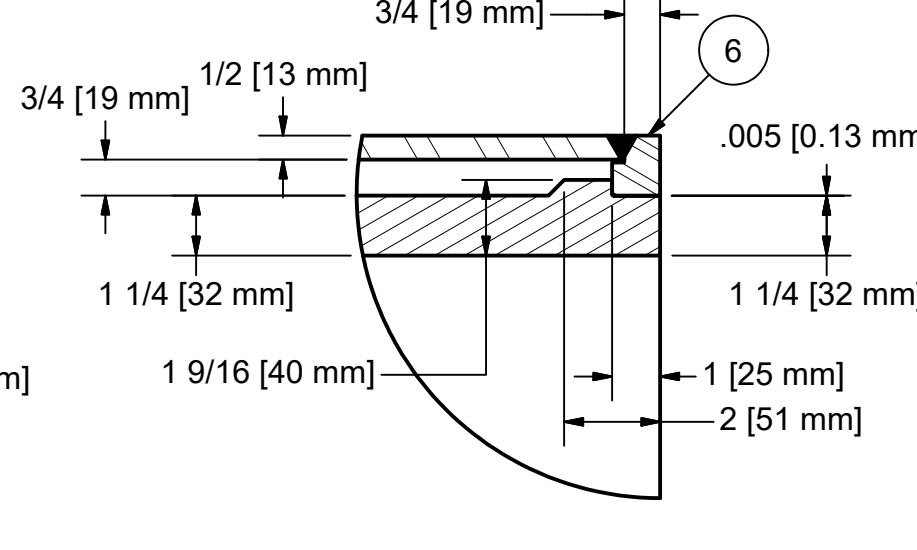
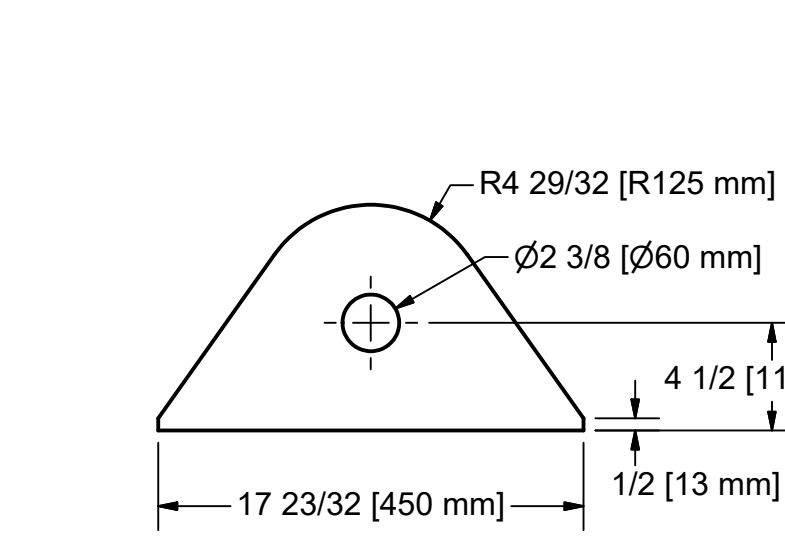


BILL OF MATERIAL			
ITEM	ITEM QTY	PART NUMBER	DESCRIPTION
1	1	A1-18001-200-01 26in elbow	26"-3D XS x 90° FORGED ELBOW, A234 WPB
2	1	A1-18001-200-03 26in pipe - outlet	26" XS x 4435mm PIPE, API 5L Gr.B PSL-2
3	1	A1-18001-260-02 26in pipe - inlet	26" XS x 1423 mm PIPE, API 5L Gr.B PSL-2
4	1	A1-18001-260-17 26in pipe - inlet	26" XS x 254 mm PIPE, API 5L Gr.B PSL-2
5	1	A1-18001-200-04 24in dummy leg	24" XS x 1610mm PIPE, API 5L Gr.B PSL-2
6	1	A1-18001-200-05 End ring	Ø660mm x Ø597mm x 1" PLATE, A516 Gr.70N
7	1	A1-18001-200-06 26in CL150 RFWN flange - custom	26" XS CL150 ASME B16.47 Ser.A RFWN FLANGE, A105N
8	1	A1-18001-200-07 24in CL150 RFWN flange	24" XS CLASS 150 ASME B16.5 RFWN FLANGE, A105N
9	1	A1-18001-200-08 HCWI elbow - male	533 mm ID x 32 mm WALL x 1981 mm RADIUS x 45 deg HCWI ELBOW, ASTM A532 CLASS III TYPE A, PF #743107
10	1	A1-18001-200-09 HCWI elbow - female	533 mm ID x 32 mm WALL x 1981 mm RADIUS x 45 deg HCWI ELBOW, ASTM A532 CLASS III TYPE A, PF #743106
11	2	A1-18001-200-11 HCWI pipe - center	533 mm ID x 32 mm WALL x 1486 mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF #743103
12	1	A1-18001-200-12 HCWI pipe - outlet	533mm ID x 32mm WALL x 1473mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743102
13	1	A1-18001-260-10 HCWI pipe - inlet	533 mm ID x 32 mm WALL x 1460 mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF #743104
14	1	A1-18001-200-13 26in HCWI liner - pup	533mm ID x 32mm WALL x 305mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743101
15	4	A1-18001-200-14 Trap rod	Ø3/8" x 86mm ROUND BAR, 44W
16	2	A1-18001-200-15 Lifting lug	450mm x 239mm x 1" PLATE, CSA G40.21 Gr.350 WT Cat.4
17	1	A1-18001-100-07 2in x 26in CL3000 threadolet	2" x 26" CLASS 3000 THREADOLET, A105N
18	1	A1-18001-400-00 Pipe shoe - S4-A-2-26	AS PER 074-0000-220-000-026 01
19	4	ANSI B18.3 - 1/2-13 UNC x 0.5	1/2"-NC x 1/2" SOCKET HEAD SET SCREW, PLATED
20	4	ASME B16.11 Hex Head Plug 1/2	1/2"-NPT HEX HEAD PLUG, A105N
21	1	ASME B16.11 Hex Head Plug 2	2"-NPT HEX HEAD PLUG, A105N
22	28	ASME B16.11 Hex Head Plug 3/4	3/4"-NPT HEX HEAD PLUG, A105N
23	1	Tag mount - 6in	C6x8.2 x 6" [152mm], 44W
24	AS REQ'D	GROUT	SIKA 300PT



ITEM 15 - LIFTING LUG

DETAIL D

P.O.#	1462299
P.O. TITLE	K1 & K2 CWI PIPING SPARES
IOR #	141-3015-66
DOCUMENT #	1462299-A05-0002
SDRL CODE(S)	A05
EQUIPMENT TAG NUMBER(S)	TAG #: SP-K3493 IOR #: 141-3015-66
SUPPLIER DOCUMENT REVIEW	PURCHASER'S REVIEW STATUS, CIRCLE THE APPROPRIATE STATUS: CODE 1 - NO COMMENTS CODE 2 - REVIEWED WITH MINOR COMMENTS CODE 3 - REVIEWED WITH COMMENTS CODE 4 - REJECTED CODE 5 - SUPERSEDED CODE 6 - VOID CODE 7 - FOR INFORMATION PURCHASER REVIEW / REVIEWER SIGNATURE:
DESIGN CODE:	ASME B31.3, Add.2016 EDITION
SERVICE:	BITUMEN FROTH
DESIGN PRESSURE:	1580 kPag (229 psig)
DESIGN TEMPERATURE:	93°C (199°F) -29°C (-20°F)
TEST PRESSURE:	3000 kPag (435 psig)
TEST TEMPERATURE:	15°C (59°F)
TEST DURATION:	10 MINUTES

REVISION HISTORY		
REV	DATE	DESCRIPTION
B	10/16/19	ADDED CORNER TO CORNER DIMENSION, WEEP HOLE DETAIL F, ADDED PIPE AND CASTING DIMENSIONS, UPDATED DESCRIPTIONS AND PART NUMBERING, TRAP ROD WAS A36
A	9/12/19	ISSUED FOR REVIEW

EST. WT. 18,455 lbs. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. BREAK ALL SHARP EDGES 0.01" RADIUS. RADI 0.01" R. 0.01" INTERPRET DWG PER ANSI Y14.5 STANDARD. TOLERANCES: X .XX = ± .118 X.XX = ± .050 X.XXX = ± .015 X.XXX = ± .005 ANGLES = ± 12' 125/ FINISH ON ALL MACHINED SURFACES	DO NOT SCALE DRAWN BY: JDS DATE: 10/16/19 CHECKED BY: DATE: APPROVED: DATE: MATERIAL & HEAT TREAT	TITLE 26" HCWI ELBOW - SPOOL SP-K3493 IOL KEARL PLANT 1 & 2 PIPING SPARES PROJECT No: A1-18001 REFERENCE: 074-2300-080-141-010 01 FILE NAME: A1-18001-260-00 Spool SP-K3493.idw REV. B SHEET 1 OF 1
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