



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	A1-18001-200-02 26in pipe - inlet	26" XS x 1679mm PIPE, API 5L Gr.B PSL-2	
3	1	A1-18001-200-03 26in pipe - outlet	26" XS x 4435mm PIPE, API 5L Gr.B PSL-2	
4	1	A1-18001-200-04 24in dummy leg	24" XS x 1610mm PIPE, API 5L Gr.B PSL-2	
5	1	A1-18001-200-05 End ring	Ø660mm x Ø597mm x 1" PLATE, A516 Gr.70N	
6	1	A1-18001-200-06 26in CL150 RFWN flange - custom	26" XS CL150 ASME B16.47 Ser.A RFWN FLANGE, A105N	
7	1	A1-18001-200-07 24in CL150 RFWN flange	24" XS CLASS 150 ASME B16.5 RFWN FLANGE, A105N	
8	1	A1-18001-200-08 HCWI elbow - male	533mm ID x 32mm WALL x 2134mm RADIUS x 45° HCWI ELBOW, ASTM A532 CLASS III TYPE A, PF#743107	
9	1	A1-18001-200-09 HCWI elbow - female	533mm ID x 32mm WALL x 2134mm RADIUS x 45° HCWI ELBOW, ASTM A532 CLASS III TYPE A, PF#743106	
10	1	A1-18001-200-10 HCWI pipe - inlet	533mm ID x 32mm WALL x 1320mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743104	
11	2	A1-18001-200-11 HCWI pipe - center	533mm ID x 32mm WALL x 1473mm 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	A1-18001-200-13 26in HCWI liner - pup	533mm ID x 32mm WALL x 305mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743101	
14	4	A1-18001-200-14 Trap rod	Ø3/8" x 86mm ROUND BAR, A36	
15	2	A1-18001-200-15 Lifting lug	450mm x 239mm x 1" PLATE, CSA G40.21 Gr.350 WT Cat 4	
16	1	A1-18001-400-00 Pipe shoe - S4-A-2-26	AS PER 074-0000-220-000-026 01	
17	1	A1-18001-100-07 2in x 26in CL3000 threadolet	2" x 26" CLASS 3000 THREADOLET, A105N	
18	1	ASME B16.11 Hex Head Plug 2	2"-NPT HEX HEAD PLUG, A105N	
19	28	ASME B16.11 Hex Head Plug 3/4	3/4"-NPT HEX HEAD PLUG, A105N	
20	4	ANSI B18.3 - 1/2-13 UNC x 0.5	1/2"-NC x 1/2" SOCKET HEAD SET SCREW, PLATED	
21	4	Parker Countersunk Hex-Head Plug 219P 219P-8	1/2"-NPT SOCKET HEAD PLUG, A105N	
22	1	Tag mount - 6in	C6x8.2 x 6" [152mm], 44W	
23	AS REQ'D	GROUT	SIKA 300PT	

REVISION HISTORY		
REV	DATE	DESCRIPTION
E	1/15/19	ADDED DIMENSION, REVISED LIFTING LUGS, ADDED LIFTING LUG DETAIL, UPDATED PO TABLE, BORE TOLERANCED
D	11/20/18	REMOVED DETAIL F, INLET PIPE WAS 19mm WALL, INLET FLANGE WAS 24 1/2" BORE, TRAP ROD WAS 92mm LONG, DIMENSION WAS 1 7/8" [48mm], ADDED WEEP HOLE NOTE
C	11/15/18	ADDED GROUT TO BOM, REMOVED ONE & RELOCATED ONE LIFTING LUG, UPDATED CoG FOR LIFT WITH SUPPORT SPOOL ATTACHED & RELOCATED LIFTING LUGS TO SUIT, UPDATED SP NUMBER, ADDED TAG MOUNT, UPDATED DIMENSIONS, ADDED DETAIL F, UPDATED GENERAL NOTES DRAWING NUMBER
B	10/17/18	CHANGED OUTLET LINER CONFIGURATION, INLET PIPE WAS XS WALL, ADDED PIPE SHOE, ADDED LIFTING LUGS, DUMMY LEG NOW AT COMMON BOTTOM OF PIPE, ADDED CoG, ADDED SECTION E-E, ADDED MDMT
A	8/02/18	ISSUED FOR REVIEW

EST. WT. 18,455 lbs.
UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES. BREAK ALL SHARP EDGES 0.01" (0.01" OR GREATER) RADIUS PER ANSI Y14.5 STANDARD.
TOLERANCES:
X.XX = ±.118
X.XXX = ±.050
X.XXX = ±.015
X.XXX = ±.005
ANGLES = ±.12°
125° FINISH ON ALL MACHINED SURFACES

DO NOT SCALE
DRAWN BY: GVD
DATE: 1/15/19
CHECKED BY: DATE
APPROVED: DATE
MATERIAL & HEAT TREAT

TITLE
26" HCWI ELBOW - SPOOL SP-K3493
IOL KEARL PLANT 2 - EXTRACTION
PROJECT No. A1-18001
REFERENCE 074-2300-080-141-010 01
FILE NAME A1-18001-200-00 Spool SP-K3493.idw
REV. E
SHEET 1 OF 1

ALCO Industrial
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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