



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	4	ANSI B18.3 - 1/2-13 UNC x 0.5	1/2"-NC x 1/2" SOCKET HEAD SET SCREW, PLATED
19	1	ASME B16.11 Hex Head Plug 2	2"-NPT HEX HEAD PLUG, A105N
20	28	ASME B16.11 Hex Head Plug 3/4	3/4"-NPT HEX HEAD PLUG, A105N
21	4	ASME B16.11 Hex Head Plug 1/2	1/2"-NPT HEX 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
1	6/12/19	Ø2 9/16 HOLE WAS 9 3/4 FROM FACE, 3/4 NPT REFERENCED
0	1/30/19	ISSUED FOR CONSTRUCTION, REMOVED NOTE, ITEM 21 WAS SOCKET HEAD
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 CoFg 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 CoFg, 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 01-10R OR 01-10R1 PER ANSI Y14.5 STANDARD.

TOLERANCES:

X	= ± 1/16
X.X	= ± .001
X.XX	= ± .015
X.XXX	= ± .005

ANGLES: ± 1/2°

125° FINISH ON ALL MACHINED SURFACES

DO NOT SCALE

DRAWN BY: JDS DATE: 6/12/19

CHECKED BY: TMH DATE: 1/30/19

APPROVED: DATE:

MATERIAL & HEAT TREAT

ALCO Industrial

11650 - 156 Street, Edmonton, Alberta, Canada T6M 3T5 Phone: (780) 451-5222 • Fax: (780) 452-4355

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. 1 SHEET 1 OF 1

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

P.O.# 1397868

P.O. TITLE MISC - K2 CWI PIPING

IOR # 141-3015-50

DOCUMENT # 1397868-A05-0010

SDRL CODE(S) A05

EQUIPMENT TAG NUMBER(S) TAG #: SP-K3493 IOR #: 141-3015-50

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: DATE: