



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" x 19mm WALL x 1249mm 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" CL150 ASME B16.47 Ser.A RFWN FLANGE, A105N, Ø24 1/2" BORE
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#
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#
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#
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#
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#
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#
14	4	A1-18001-200-14 Trap rod	Ø3/8" x 92mm ROUND BAR, A36
15	3	A1-18001-200-15 Lifting lug	450mm x 239mm x 1" PLATE, CSA G40.21 Gr.350 WT Cat.4, SEE: A1-17083-800-07
16	1	A1-18001-400-00 Pipe shoe - S4-A-2-26	SEE: A1-17093-070-00
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

REVISION HISTORY		
REV	DATE	DESCRIPTION
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

REFER TO DRAWING A1-00001-100-01 FOR ALL GENERAL NOTES AND SPECIFICATIONS

EST. WT. 18,630 lbs.  
UNLESS OTHERWISE SPECIFIED:  
ALL DIMENSIONS ARE IN INCHES. BREAK ALL SHARP EDGES Ø1/8" OR GR.40. RADIUS 1/8" I.R. Ø10. INTERPRET DOWNS PER ANSI Y14.5 STANDARD.

DO NOT SCALE  
DRAWN BY: GVD  
DATE: 10/17/18  
CHECKED BY: DATE:  
APPROVED: DATE:  
MATERIAL & HEAT TREAT

TOLERANCES  
X = ±.116  
XX = ±.050  
XXX = ±.015  
XXXX = ±.005  
ANGLES = ±.12°  
125° FINISH ON ALL MACHINED SURFACES

ALCO Industrial

11650 - 156 Street,  
Edmonton, Alberta, Canada T6M 3T5  
Phone: (780) 451-3222 • Fax: (780) 452-4355

TITLE

26" HCWI ELBOW - SPOOL SP-C3636  
IOL KEARL PLANT 2 - EXTRACTION

PROJECT No.

A1-18001

REFERENCE

074-2300-080-141-010 01

REV.

B

FILE NAME

A1-18001-200-00 Spool SP-K3493.idw

SHEET

1 OF 1

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

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  
DATE: 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