



BILL OF MATERIAL			
ITEM	ITEM QTY	PART NUMBER	DESCRIPTION
1	1	A1-18001-230-01 26in elbow	26"-3D XS x 90° FORGED ELBOW, A234 WPB
2	1	A1-18001-230-02 26in pipe - inlet	26" XS x 1679mm PIPE, API 5L Gr.B PSL-2
3	1	A1-18001-230-03 26in pipe - outlet	26" XS x 4435mm PIPE, API 5L Gr.B PSL-2
4	1	A1-18001-230-04 24in dummy leg	24" XS x 1610mm PIPE, API 5L Gr.B PSL-2
5	1	A1-18001-230-05 End ring	Ø660mm x Ø597mm x 1" PLATE, A516 Gr.70N
6	1	A1-18001-230-06 26in CL150 RFWN flange - custom	26" XS CL150 ASME B16.47 Ser.A RFWN FLANGE, A105N
7	1	A1-18001-230-07 24in CL150 RFWN flange	24" XS CLASS 150 ASME B16.5 RFWN FLANGE, A105N
8	1	A1-18001-230-08 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	A1-18001-230-09 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	A1-18001-230-10 HCWI pipe - inlet	533mm ID x 32mm WALL x 1320mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743104
11	2	A1-18001-230-11 HCWI pipe - center	533mm ID x 32mm WALL x 1473mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743103
12	1	A1-18001-230-12 HCWI pipe - outlet	533mm ID x 32mm WALL x 1473mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743102
13	1	A1-18001-230-13 26in HCWI liner - pup	533mm ID x 32mm WALL x 305mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743101
14	4	A1-18001-230-14 Trap rod	Ø3/8" x 86mm ROUND BAR, A36
15	2	A1-18001-230-15 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	A1-18001-130-07 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	6/26/19	REFERENCE OF TITLE BLOCK WAS 2300
0	6/21/19	ISSUED FOR CONSTRUCTION

P.O.# 1462298
P.O. TITLE CWI PIPING
IOR # 141-3015-66
DOCUMENT # 1462298-A05-0003
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
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

EST. WT. 18,455 lbs.
UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES. BREAK ALL SHARP EDGES 0.01" (0.01" MIN) PER ANSI Y14.5 STANDARD.
TOLERANCES:
X.XX = ±.118
X.XXX = ±.050
X.XXX = ±.015
X.XXX = ±.005
ANGLES = ±1/2°
12/16" FINISH ON ALL MACHINED SURFACES

DO NOT SCALE
DRAWN BY: JDS DATE: 6/26/19
CHECKED BY: TMH DATE: 6/26/19
APPROVED: DATE:
MATERIAL & HEAT TREAT

ALCO INC. APEGGA PERMIT TO PRACTICE No.: P10702

PROFESSIONAL ENGINEER ALBERTA
TRENT MICHAEL HASE
P.E. 0000000000

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26" HCWI ELBOW - SPOOL SP-K3493
IOL KEARL PLANT 1 - EXTRACTION

PROJECT No. A1-18001 REFERENCE 074-1300-080-141-010 01
FILE NAME A1-18001-230-00 SPOOL SP-K3493.idw
REV. 1 SHEET 1 OF 1