



BILL OF MATERIAL				
ITEM	ITEM QTY	PART NUMBER	DESCRIPTION	
1	1	A1-17093-960-01 36in pipe	36" Sch.30 x 11887mm PIPE, API 5L Gr.B PSL-2	
2	1	A1-17093-960-02 36in pipe	36" Sch.30 x 2907mm PIPE, API 5L Gr.B PSL-2	
3	1	A1-17093-960-05 36in pipe	36" x 25.4mm x 159mm PIPE, API 5L Gr.B PSL-2	
4	2	A1-17093-830-03 Repad	2923mm x 914mm x 5/8" PLATE, A516 Gr.70N, ROLLED TO 914mm ID	
5	1	A1-17093-830-08 Repad	2962mm x 914mm x 1 1/8" PLATE, A516 Gr.70N, ROLLED TO 914mm ID	
6	1	A1-17093-230-05 36in CL300 RF flange	36" x 7/8" WALL CL300 B16.47 Ser.A RFWN FLANGE, A105N, CUSTOM	
7	1	A1-17093-330-04 36in CL300 RF flange	36" CL300 ASME B16.47 Ser.A RFWN CUSTOM FLANGE, A105N, Ø34" BORE	
8	1	A1-17093-960-04 HCWI liner - female	768mm ID x 48mm WALL x 1006mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743086	
9	4	A1-17093-830-05 HCWI liner - center	768mm ID x 48mm WALL x 2807mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743088	
10	1	A1-17093-230-10 HCWI liner - flange pup	768 mm ID x 48 mm WALL x 305 mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF #743073	
11	1	A1-17093-930-03 HCWI liner - pup	768mm ID x 48mm WALL x 2807mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743087	
12	4	A1-17093-230-12 Trap rod - long	Ø3/8" x 165mm ROUND BAR, 44W	
13	4	A1-17093-830-07 Lifting lug	450mm x 239mm x 1" PLATE, CSA G40.21 Gr.350 WT Cat.4, SEE: A1-17083-800-07	
14	1	Tag mount - 6in	C6x8.2 x 6" [152mm], 44W	
15	1	A1-17093-330-09 2in x 36in CL3000 threadolet	2" x 36" CLASS 3000 THREADOLET, A105N	
16	4	ANSI B18.3 - 1/2-13 UNC x 0.5	1/2"-NC x 1/2" SOCKET HEAD SET SCREW, PLATED	
17	1	ASME B16.11 Hex Head Plug 2	2"-NPT HEX HEAD PLUG, A105N	
18	33	ASME B16.11 Hex Head Plug 3/4	3/4"-NPT HEX HEAD PLUG, A105N	
19	4	ASME B16.11 Hex Head Plug 1/2	1/2"-NPT HEX HEAD PLUG, A105N	
20	4	A1-17093-830-09 Lifting lug repad	555mm x 150mm x 1/2" PLATE, A516 Gr.70N, ROLLED TO 36" ID	
21	AS REQ'D	GROUT	SIKA 300PT	

REVISION HISTORY		
REV	DATE	DESCRIPTION
1	9/23/19	ADDED VIEW H-H
0	7/08/19	ISSUED FOR CONSTRUCTION

P.O.# 1462298  
P.O. TITLE CWI PIPING  
IOR # 141-3015-69  
DOCUMENT # 1462298-A05-0006  
SDRL CODE(S) A05

EQUIPMENT NUMBER(S)  
TAG #: SP-K3496 IOR #: 141-3015-69

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CODE 5 - SUPERSEDED  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 B31.11, Add.2002 EDITION  
SERVICE: HYDROTRANSPORT SLURRY  
DESIGN PRESSURE: 3447 kPag (500 psig)  
DESIGN TEMPERATURE: 93°C (199°F) - 29°C (-20°F)  
TEST PRESSURE: 3792 kPag (550 psig)  
TEST TEMPERATURE: 15°C (59°F)  
TEST DURATION: 4 HOURS

ALCO INC. APEGGA PERMIT TO PRACTICE No.: P10702

DO NOT SCALE

DRAWN BY: JDS DATE: 9/23/19  
CHECKED BY: DATE:  
APPROVED: DATE:  
MATERIAL & HEAT TREAT

EST. WT. 49,830 lbs.  
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. BREAK ALL SHARP EDGES 0.01" OR 0.04" (RADI) 0.01" R. 0.01" INTERPRET DWG PER ANSI Y14.5 STANDARD.

TOLERANCES:  
X.XX = ± 0.00  
X.XXX = ± 0.015  
X.XXXX = ± 0.005  
ANGLES = ± 1/2°  
125° FINISH ON ALL MACHINED SURFACES

ALCO Industrial  
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TITLE  
36" HCWI PIPE, SPOOL SP-K3496  
IOL KEARL PLANT 1 - EXTRACTION

PROJECT No. A1-17093 REFERENCE 074-1300-080-141-007 01  
FILE NAME A1-17093-960-00 Spool SP-K3496.idw  
REV. 1  
SHEET 1 OF 1