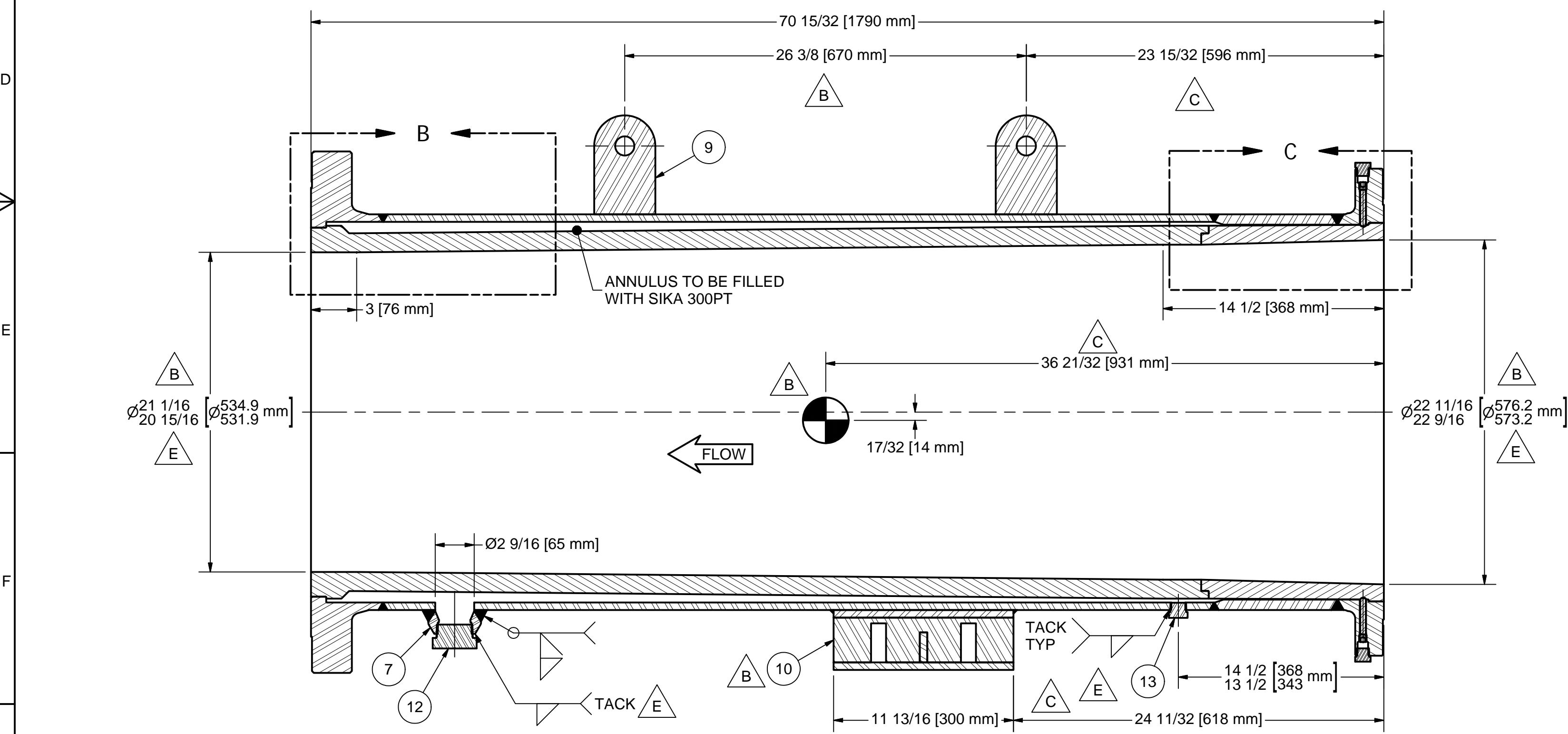


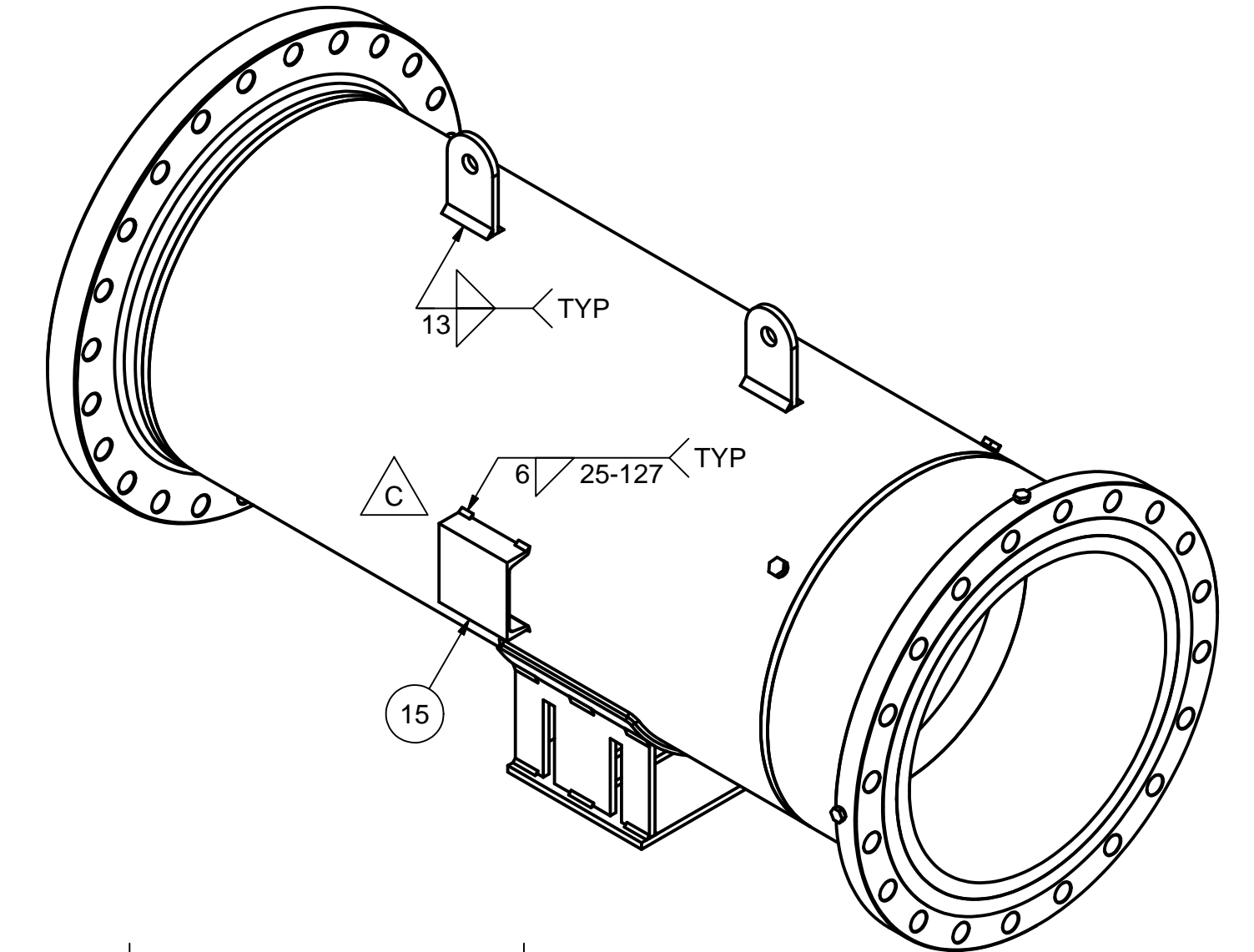
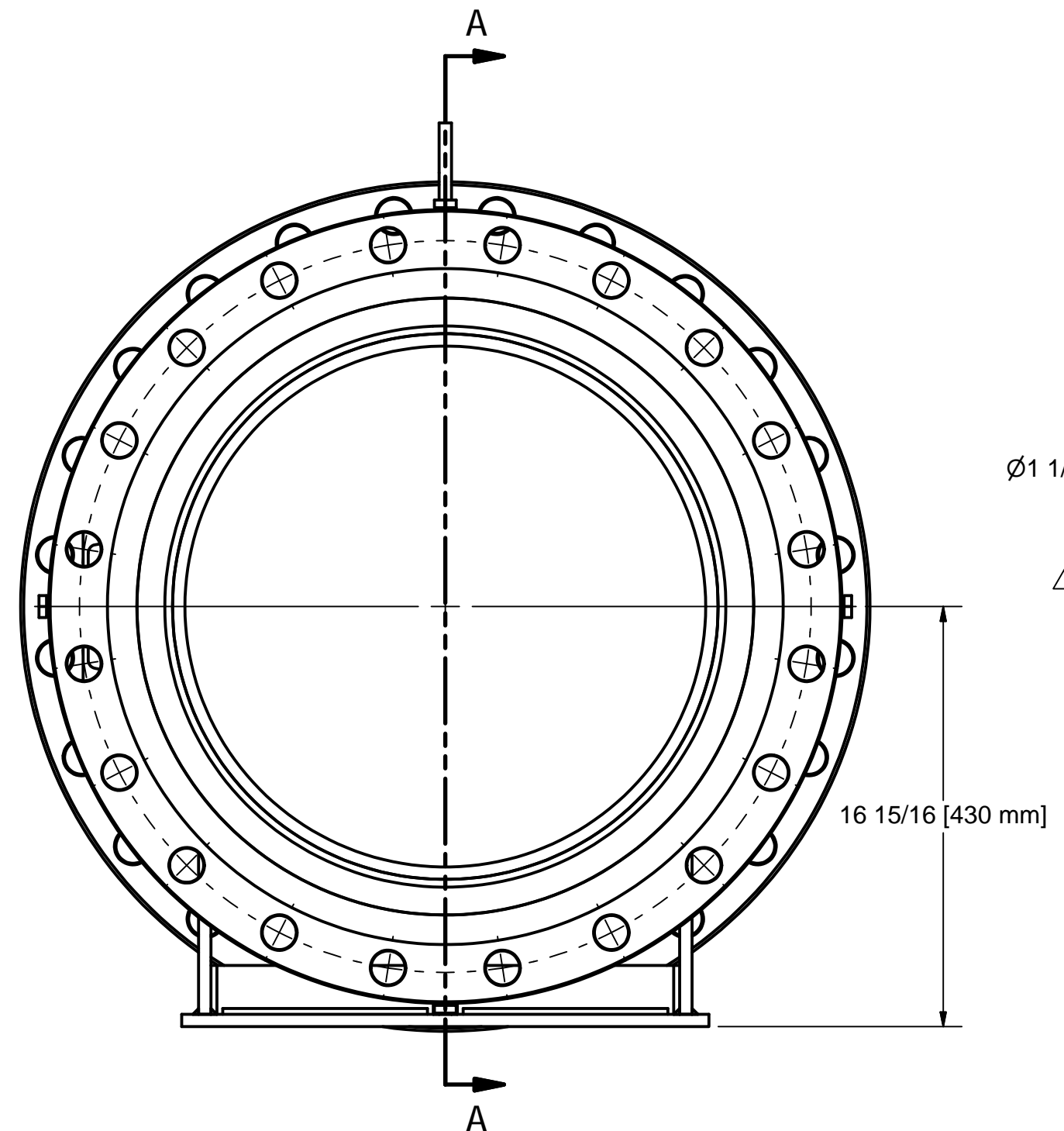
DETAIL B

DETAIL C



SECTION A-A

BILL OF MATERIAL			
ITEM	ITEM QTY	PART NUMBER	DESCRIPTION
1	1	A1-18001-100-01 26in pipe	26" XS x 1384mm PIPE, API 5L Gr.B PSL-2
2	1	A1-18001-100-02 26in pipe	26" x 17.5mm WALL x 203mm PIPE, API 5L Gr.B PSL-2
3	1	A1-18001-100-03 24in CL150 RF flange - custom	24" CLASS 150 ASME B16.5 RF SO FLANGE, A105N, Ø24 5/8" BORE
4	1	A1-18001-100-04 26in CL150 RF flange - custom	26" CL150 ASME B16.47 Ser.A RFWN FLANGE, A105N, Ø24 1/4" BORE
5	1	A1-18001-100-05 HCWI reducer	575mm ID x 24mm WALL x 559mm ID x 32mm WALL x 1498mm HCWI REDUCER, ASTM A532 CLASS III TYPE A, PF#743099
6	1	A1-18001-100-06 24in HCWI liner - pup	575mm ID x 24mm WALL x 559 ID x 32mm WALL x 305mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743098
7	1	A1-18001-100-07 2in x 26in CL3000 threadolet	2" x 26" CLASS 3000 THREADOLET, A105N
8	4	A1-18001-100-08 Trap rod	Ø3/8" x 60mm ROUND BAR, A36
9	2	A1-18001-100-09 Lifting lug	165mm x 102mm x 1/2" PLATE, A516 Gr.60 OR EQUIV.
10	1	A1-18001-410-00 Pipe shoe - S4-A-1-26	AS PER 074-0000-220-000-026 01
11	4	ANSI B18.3 - 1/2-13 UNC x 0.5	1/2"-NC x 1/2" SOCKET HEAD SET SCREW, PLATED
12	1	ASME B16.11 Hex Head Plug 2	2"-NPT HEX HEAD PLUG, A105N
13	3	ASME B16.11 Hex Head Plug 3/4	3/4"-NPT HEX HEAD PLUG, A105N
14	4	ASME B16.11 Hex Head Plug 1/2	1/2"-NPT HEX HEAD PLUG, A105N
15	1	Tag mount - 6in	C6x8.2 x 6" [152mm], 44W
16	AS REQ'D	GROUT	SIKA 300PT



ITEM 9 - LIFTING LUG

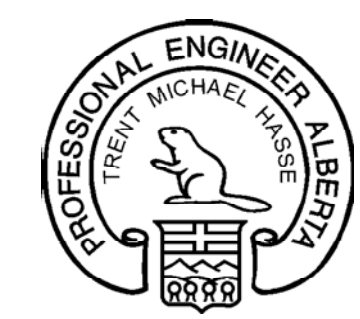
P.O.#	1397868
P.O. TITLE	MISC - K2 CWI PIPING
IOR #	141-3015-49
DOCUMENT #	1397868-A05-0009
SDRL CODE(S)	A05

EQUIPMENT TAG NUMBER(S)	TAG #: SP-K3492 IOR # 141-3015-49
-------------------------	-----------------------------------

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:	



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

REVISION HISTORY		
REV	DATE	DESCRIPTION
0	1/30/19	ISSUED FOR CONSTRUCTION, REMOVED NOTE, ITEM 14 WAS SOCKET HEAD
E	1/15/19	UPDATED PO TABLE, UPDATED BoM DESCRIPTIONS, ADDED WELD NOTES, REVISED LIFTING LUG, ADDED LIFTING LUG DETAIL, BORES TOLERANCED
D	11/20/18	CORRECTED BoM
C	11/15/18	ADDED GROUT TO BoM, CORRECTED PIPE SHOE VERSION, REMOVED SECOND STUB PIPE, CORRECTED BoM, UPDATED CoG & LUG POSITIONS, ADDED TAG MOUNT, UPDATED GENERAL NOTES DRAWING NUMBER CONVERTED TO CONCENTRIC LAYOUT, ADDED SECOND STUB PIPE, ADDED LIFTING LUGS, ADDED PIPE SHOE, ADDED CoG, CORRECTED IDs, ADDED MDMT
B	10/17/18	
A	8/02/18	ISSUED FOR REVIEW



ALCO INC.
APEGGA PERMIT TO
PRACTICE No.: P10702

DO NOT SCALE	DRAWN BY: GVD	DATE: 1/30/19
	CHECKED BY: TMH	DATE: 1/30/19
	APPROVED: DATE	
	MATERIAL & HEAT TREAT	

  ALCO Industrial		11650 - 155 Street, Edmonton, Alberta, Canada T6M 3T5 Phone: (780) 451-6222 ♦ Fax: (780) 452-4355	
TITLE			
24" x 36" HCWI REDUCER - SPOOL SP-K3492			
IOL KEARL PLANT 2 - EXTRACTION			
PROJECT No.	REFERENCE	REV.	
A1-18001	074-2300-080-141-009 01	0	
FILE NAME		SHEET	
A1-18001-100-00 Spool SP-K3492.idw		1 OF 1	