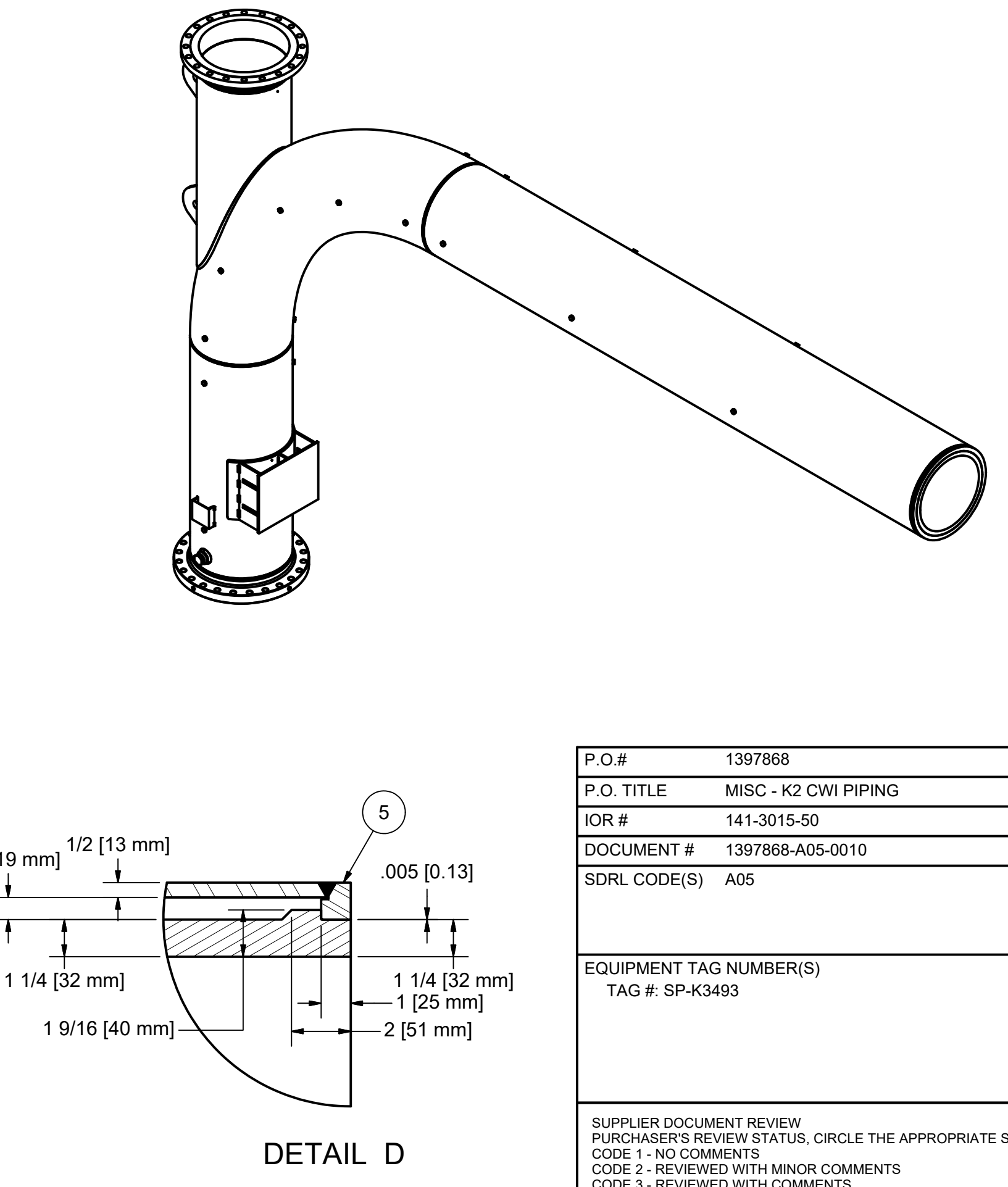
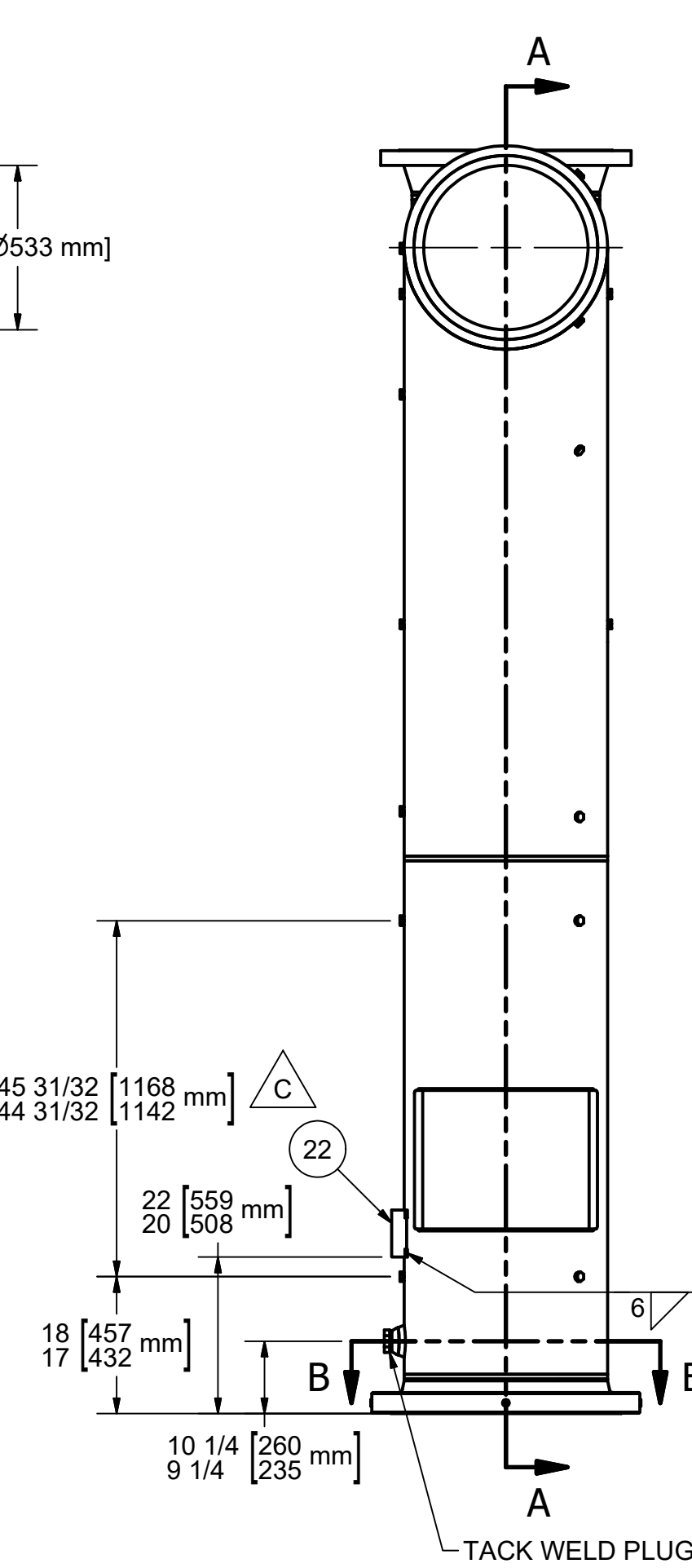
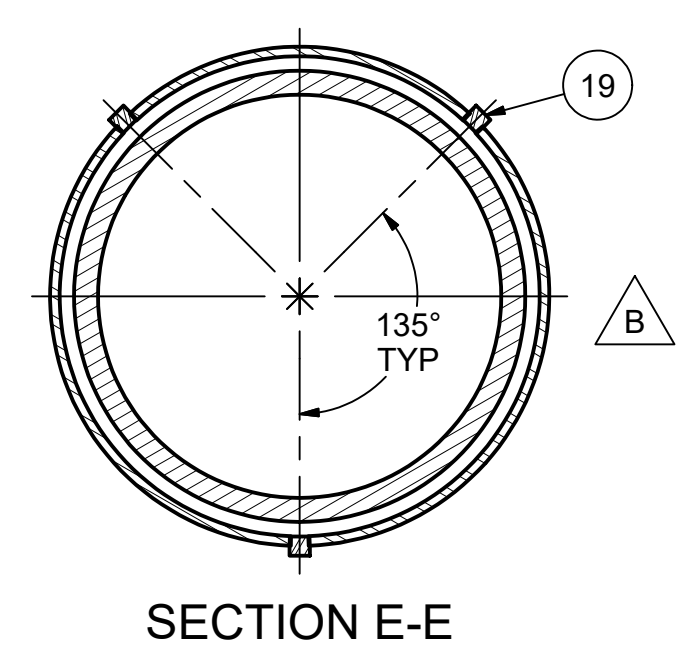
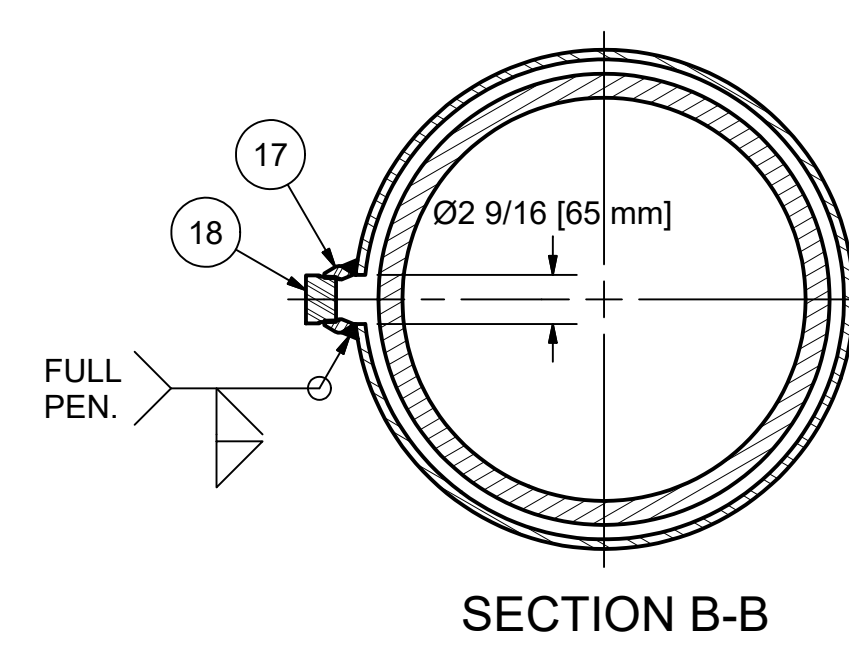


BILL OF MATERIAL			
ITEM	ITEM QTY	PART NUMBER	DESCRIPTION
1	1	A1-18001-200-01 26in elbow	26"-3D XS x 90° FORGED ELBOW, A234 WPR
2	1	A1-18001-200-02 26in pipe - inlet	26" X 19mm WALL x 1249mm PIPE, API 5L Gr.B PSL-2
3	1	A1-18001-200-03 26in pipe - outlet	26" XS x 4435mm PIPE, API 5L Gr.B PSL-2
4	1	A1-18001-200-04 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" 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#
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 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, SEE: A1-17093-800-07
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	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
22	1	Tag mount - 6in	C6x8.2 x 6" [152mm], 44W
23	AS REQ'D	GROUT	SIKA 300PT



REVISION HISTORY		
REV	DATE	DESCRIPTION
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 CoG 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 CoG, ADDED SECTION E-E, ADDED MDMT
A	8/02/18	ISSUED FOR REVIEW

REFER TO DRAWING A1-00001-100-04 FOR ALL GENERAL NOTES AND SPECIFICATIONS

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND SUCH INFORMATION MAY BE USED OR DISCLOSED BY ANY PERSON FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION FROM ALCO INC. OR ITS DIVISIONS.	EST. WT. 18,465 lbs. UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES. BREAK ALL SHARP EDGES 01-.00R OR 01-.00R1 PER ANSI Y14.5 STANDARD. TOLERANCES: X.XX = ±.118 X.X = ±.050 XXX = ±.015 XXXX = ±.005 ANGLES = ±.12° 125° FINISH ON ALL MACHINED SURFACES	DO NOT SCALE DRAWN BY: GVD DATE: 11/20/18 CHECKED BY: DATE: APPROVED: DATE: MATERIAL & HEAT TREAT		ALCO Industrial 11650 - 156 Street Edmonton, Alberta, Canada T6M 3T5 Phone: (780) 451-6222 • Fax: (780) 452-4355	
		TITLE 26" HCWI ELBOW IOL KEARL PLANT 2 - EXTRACTION		SPOOL SP-K3493	
		PROJECT No. A1-18001 REFERENCE 074-2300-080-141-010 01 FILE NAME A1-18001-200-00 Spool SP-K3493.idw		REV. D 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

