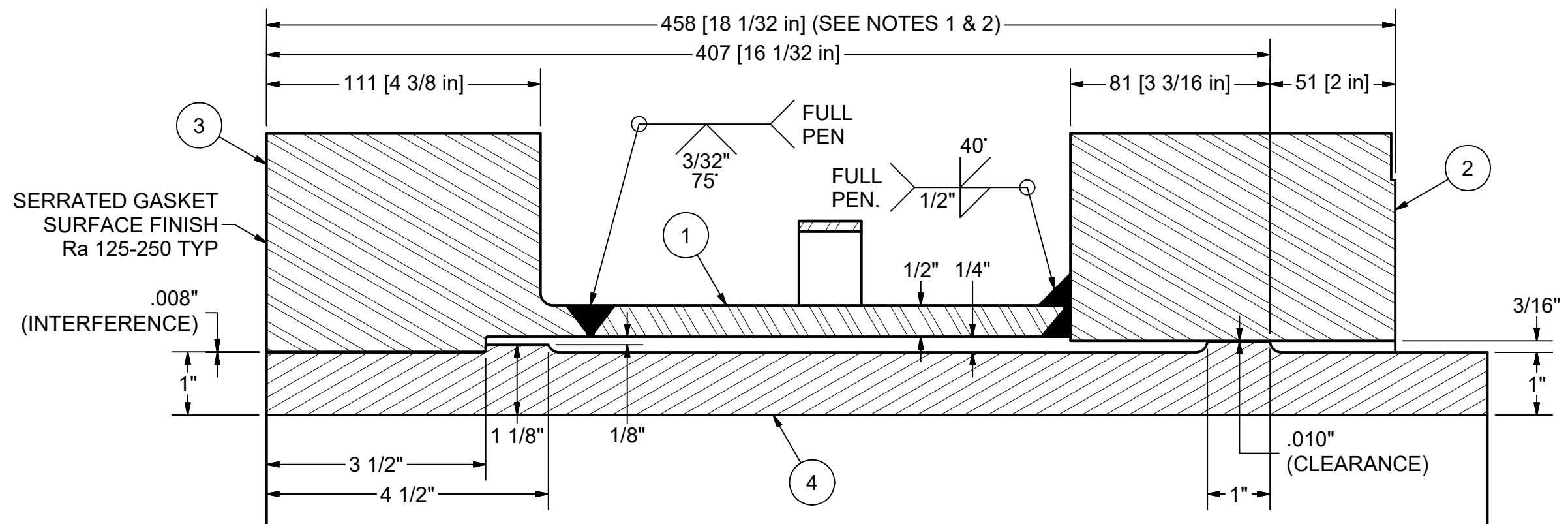
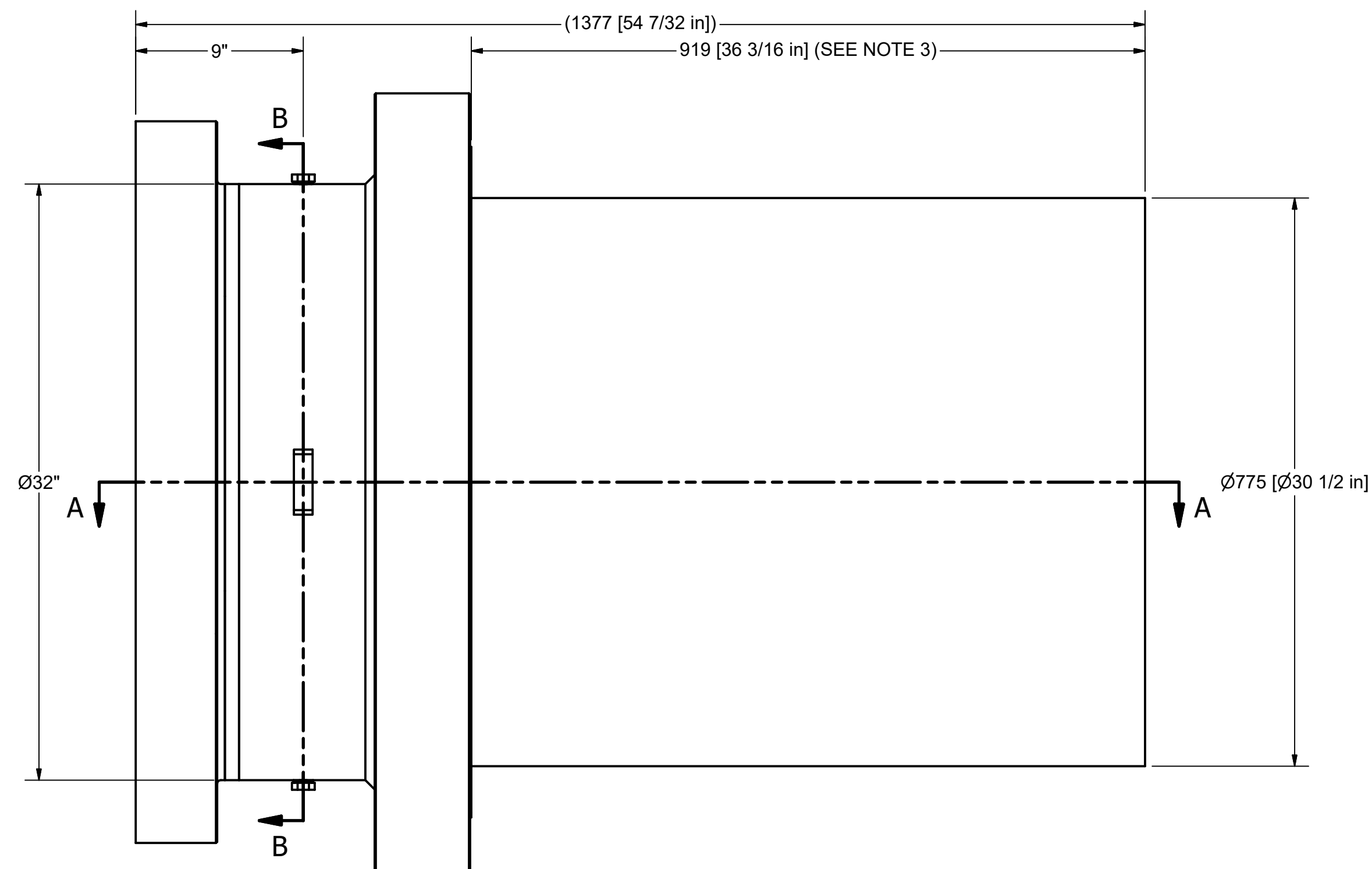
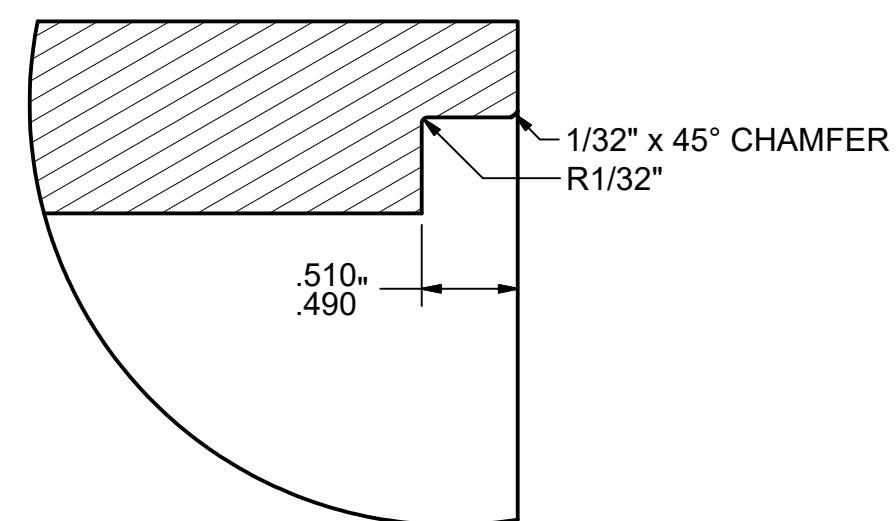


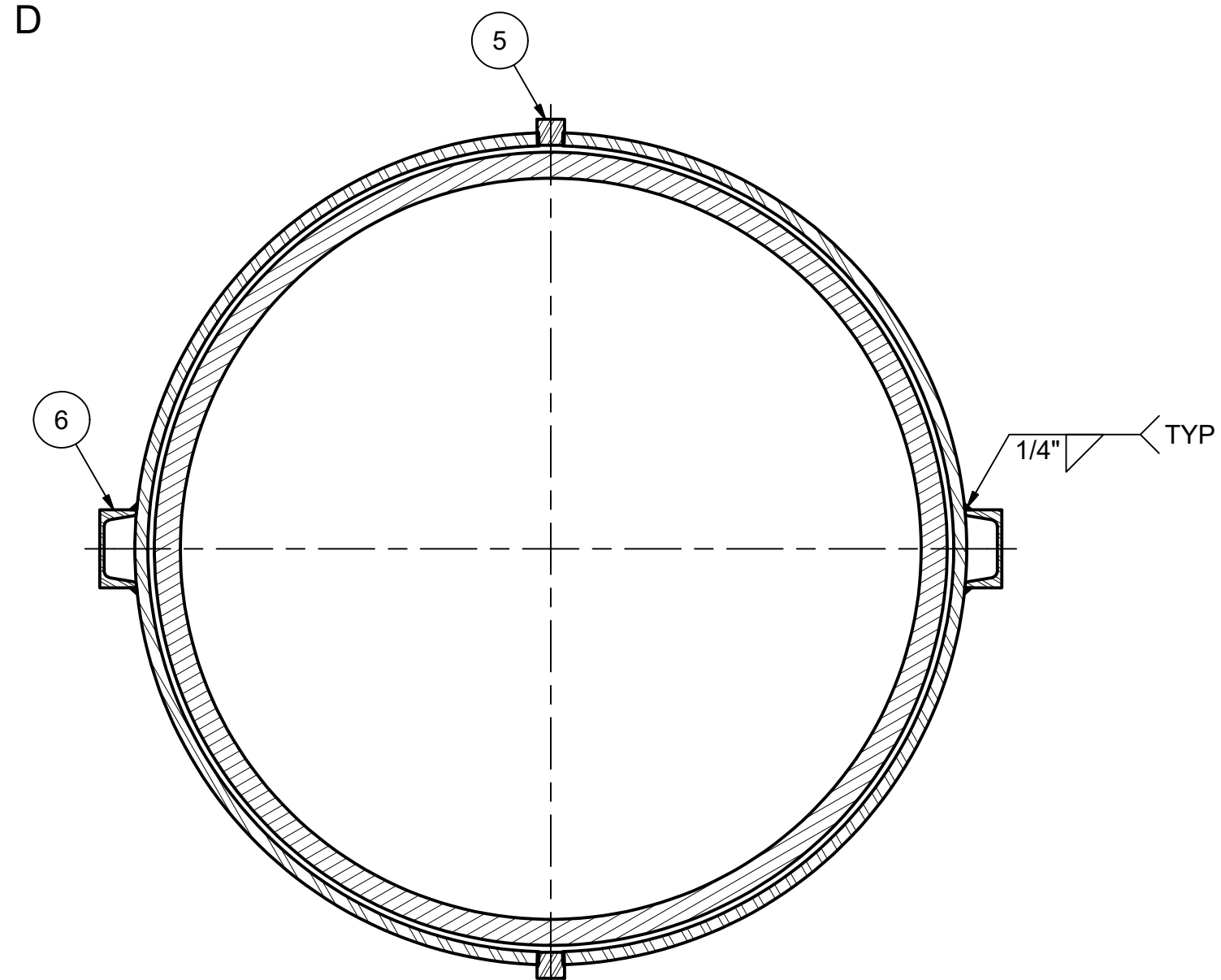
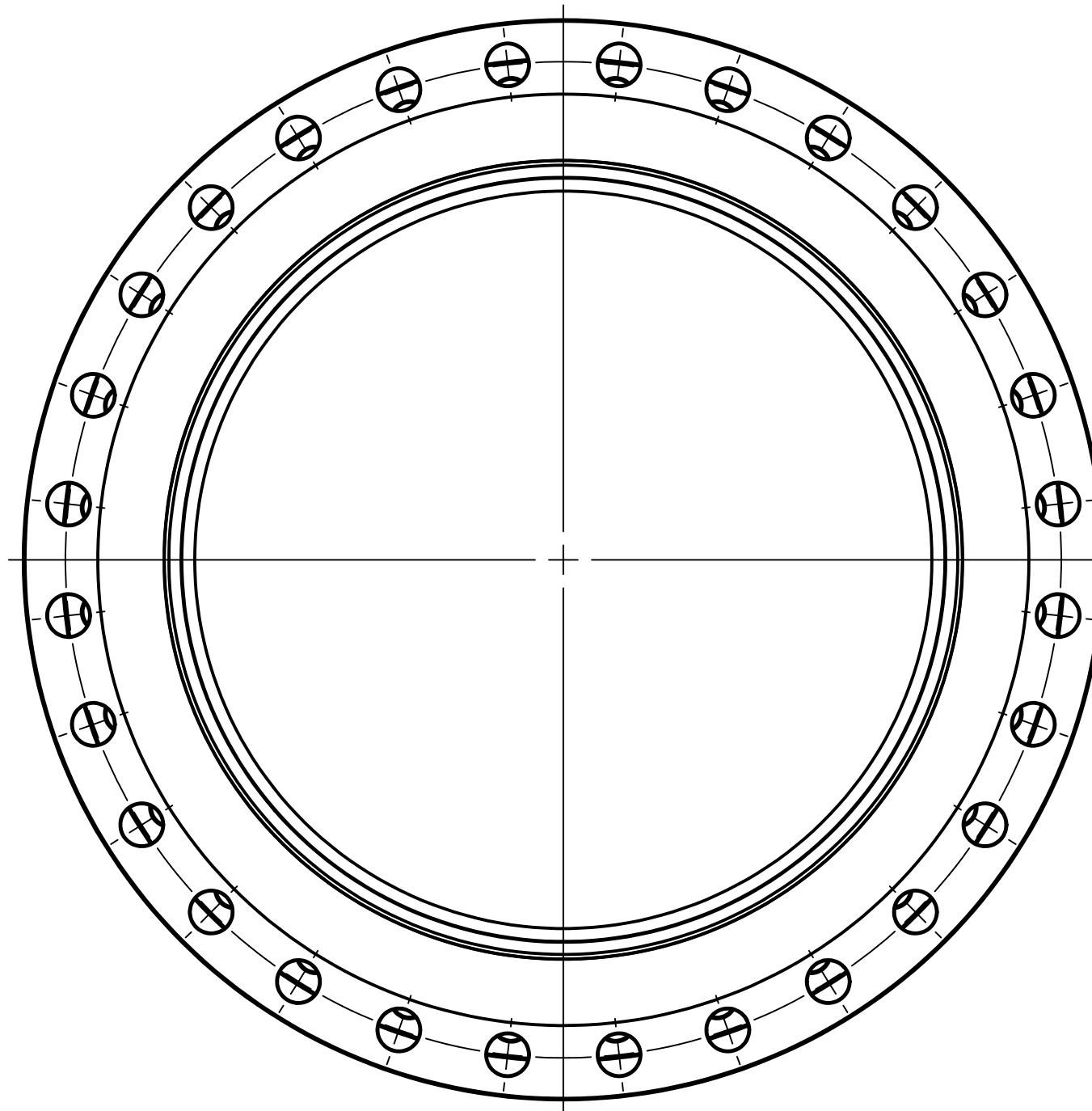
SECTION A-A



DETAIL C



DETAIL D





SECTION B-B

- NOTES:
1. SPOOL TO BE HYDROTESTED PRIOR TO INSTALLATION OF HCWI LINER.
  2. LENGTH OVER FLANGES TO BE DETERMINED BY FIELD MEASUREMENT.  
51mm (2") PROVIDED ON FLANGE FACE TO PERMIT MACHINING TO  
FIELD SPECIFIED LENGTH.
  3. 919mm (36 3/16") LINER INSERTION TO BE MAINTAINED  
REGARDLESS OF FLANGE TO FLANGE LENGTH.

DESIGN CODE:	ASME B31.3, 2018
SERVICE:	HYDROTRANSPORT SLURRY
DESIGN PRESSURE:	1770 kPa (257 psig)
DESIGN TEMPERATURE:	94°C (201°F)
TEST PRESSURE:	2655 kPa (385 psig)
TEST TEMPERATURE:	15°C (59°F)
TEST DURATION:	10 MINUTES



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

THE INFORMATION CONTAINED HEREIN MAY BE USED FOR REPRODUCTION OR REUSE OF INFORMATION, AND SUCH REPRODUCTION OR REUSE OF INFORMATION MAY BE MADE WITHOUT THE WRITTEN PERMISSION OF THE COMPANY. ANY REUSE OF INFORMATION FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS PROVIDED SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO THE COMPANY.	EST. WT. 2,780 lbs.	<b>DO NOT SCALE</b>		  <b>ALCO Industrial</b> 2103 - 8 Street, Nisku, Alberta, Canada T9E 7Y9 Phone: (780) 451-6222 x Fax: (780) 452-4355		
	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. BREAK ALL SHARP EDGES .01-.03R OR .45" RADIUS 01-.03R OR .45" RADIUS .010. INTERPRET DWG PER ANSI Y14.5 STANDARD.	DRAWN BY: GVD	DATE: 1/07/20			
		CHECKED BY:	DATE:	TITLE		
		APPROVED:	DATE:	SPOOL RD-235-D-2-1 SYNCRUDE AURORA HT2 MAIN LINE		
	TOLERANCES X ± .016 XX ± .003 XXX ± .015 X-XXX ± .005	MATERIAL & HEAT TREAT		PROJECT NO: A1-19027	REFERENCE: RD-235-002-D-002-1 Rev.A	REV. A
125° FINISH ON ALL MACHINED SURFACES 137° FINISH ON ALL MACHINED SURFACES			FILE NAME: A1-19027-300-00 RD-235-D-2-1.dwg	SHEET 1 OF 1		

		BILL OF MATERIAL	
ITEM	ITEM QTY	PART NUMBER	DESCRIPTION
1	1	A1-19027-300-01 32in pipe	32" XS x 7 17/32" PIPE, API 5L Gr.B
2	1	A1-19027-300-02 32in CL150 RF flange	32" CLASS 150 B16.47 Ser.A RF FLANGE, A350 LF2, 2" THICKER
3	1	A1-19027-300-03 Alco flange - 30in CL150	30" CLASS 150 FF ALCO FLANGE, A350 LF2, Ø30 1/2" BORE, MATES TO CLASS 150 B16.47 Ser.A
4	1	A1-19027-300-04 HCWI liner - nozzle	28 1/2" ID x 1" WALL x 54 7/32" HCWI NOZZLE LINER, ASTM A532 CLASS III TYPE A, PF#(TBD)
5	2	ASME B16.11 Hex Head Plug 3/4	2"-NPT HEX HEAD PLUG, A105N
6	2	Tag mount - 3in	C3x4.1 x 1", 44W

REVISION HISTORY			
REV	DATE	DESCRIPTION	INITIALS
A	1/07/20	ISSUED FOR REVIEW	GVD