

A

B

C

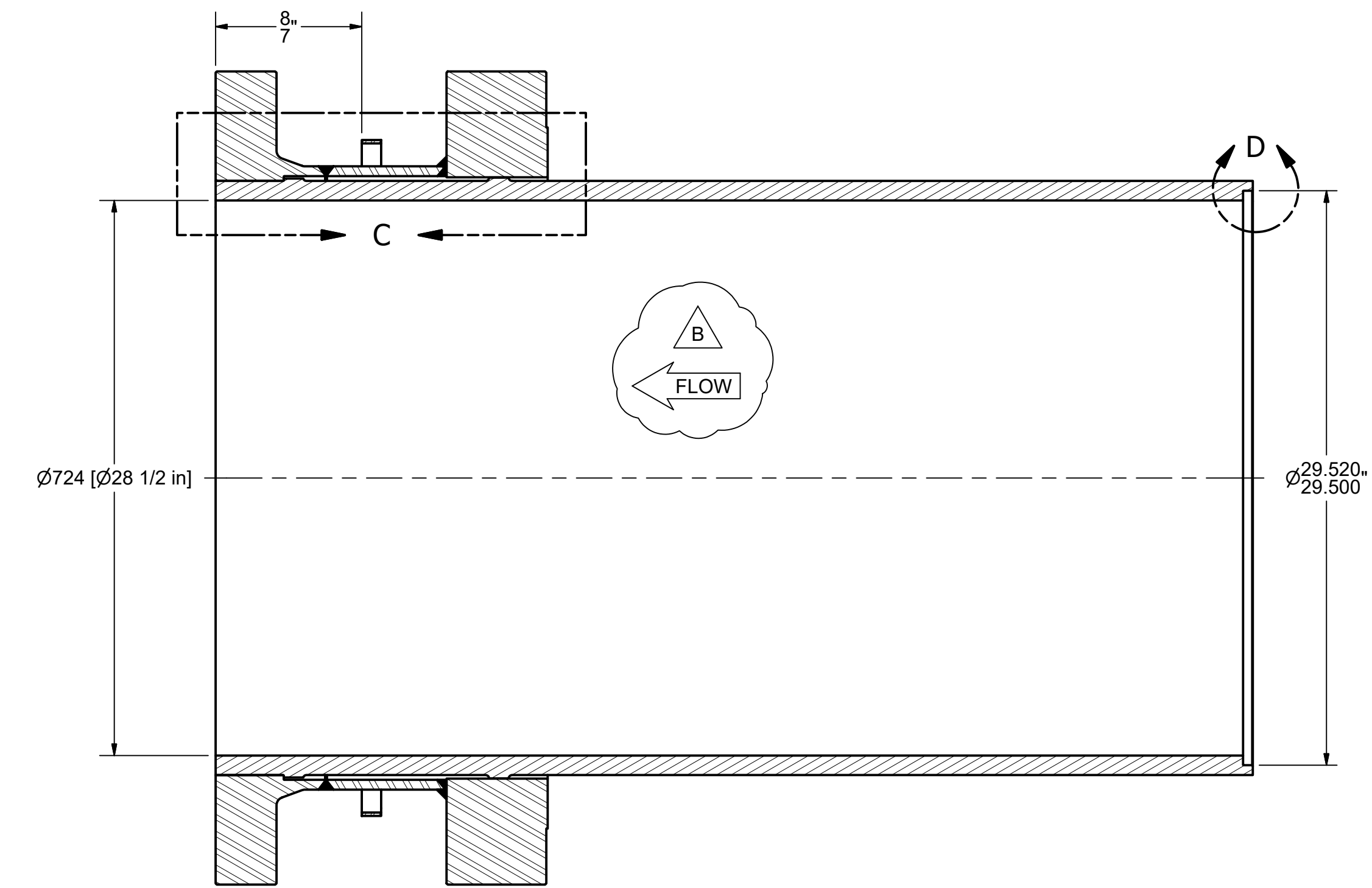
D

E

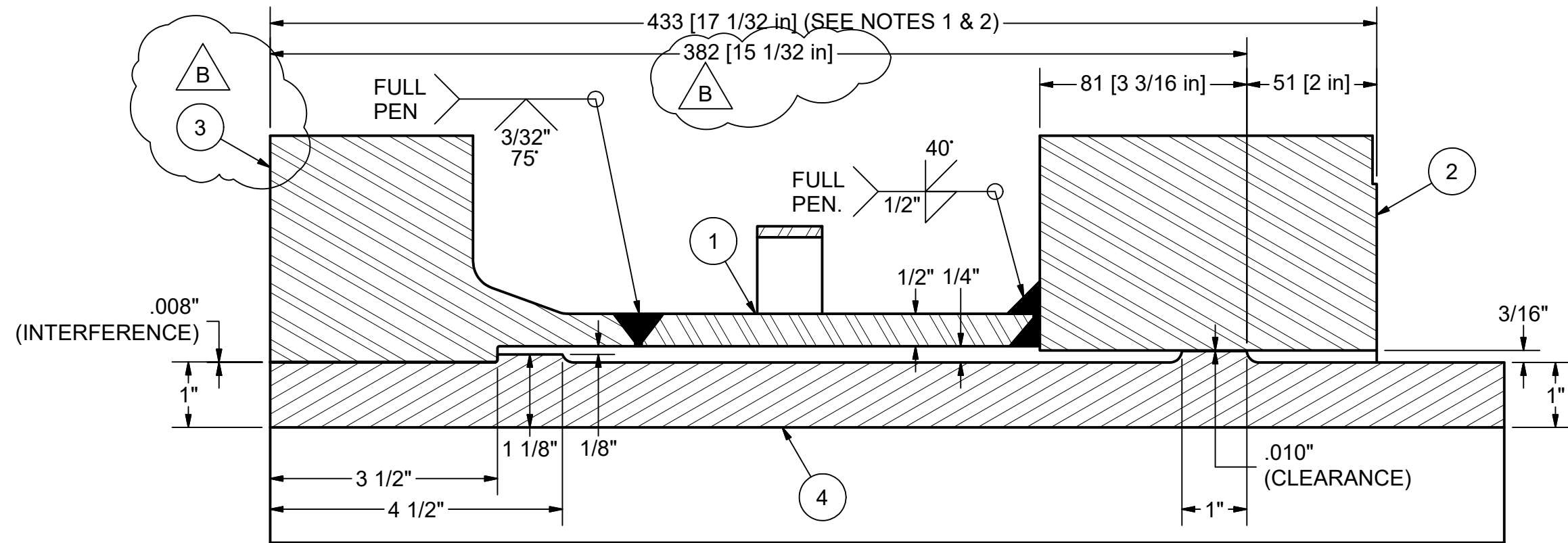
F

G

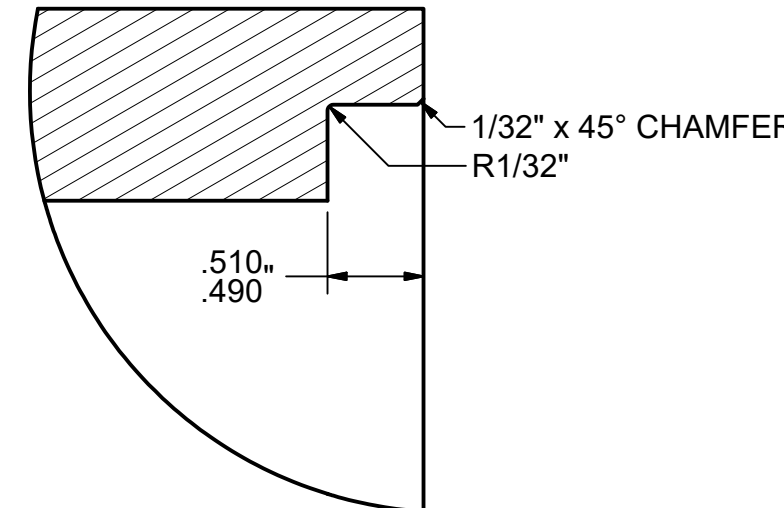
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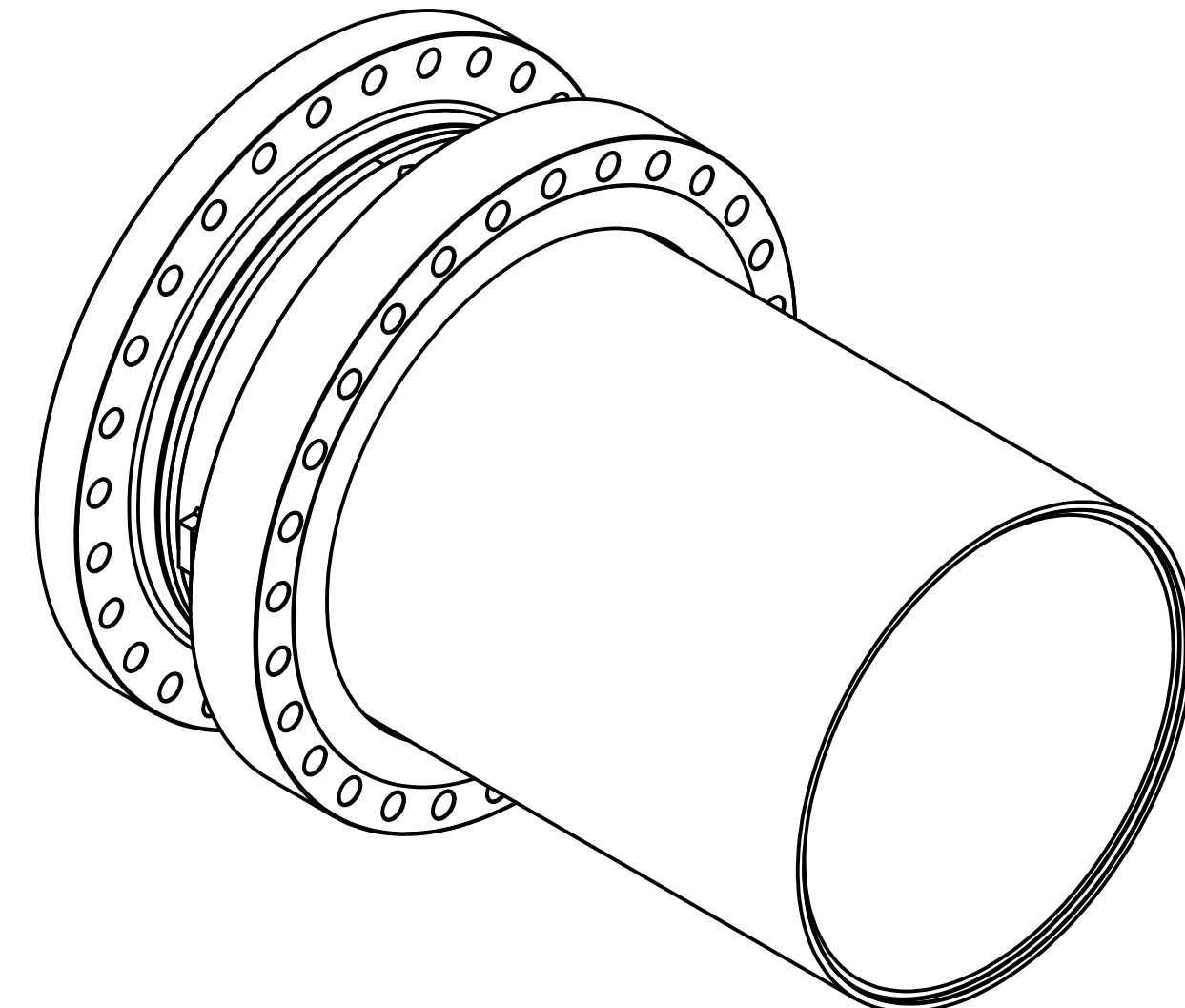
SECTION A-A



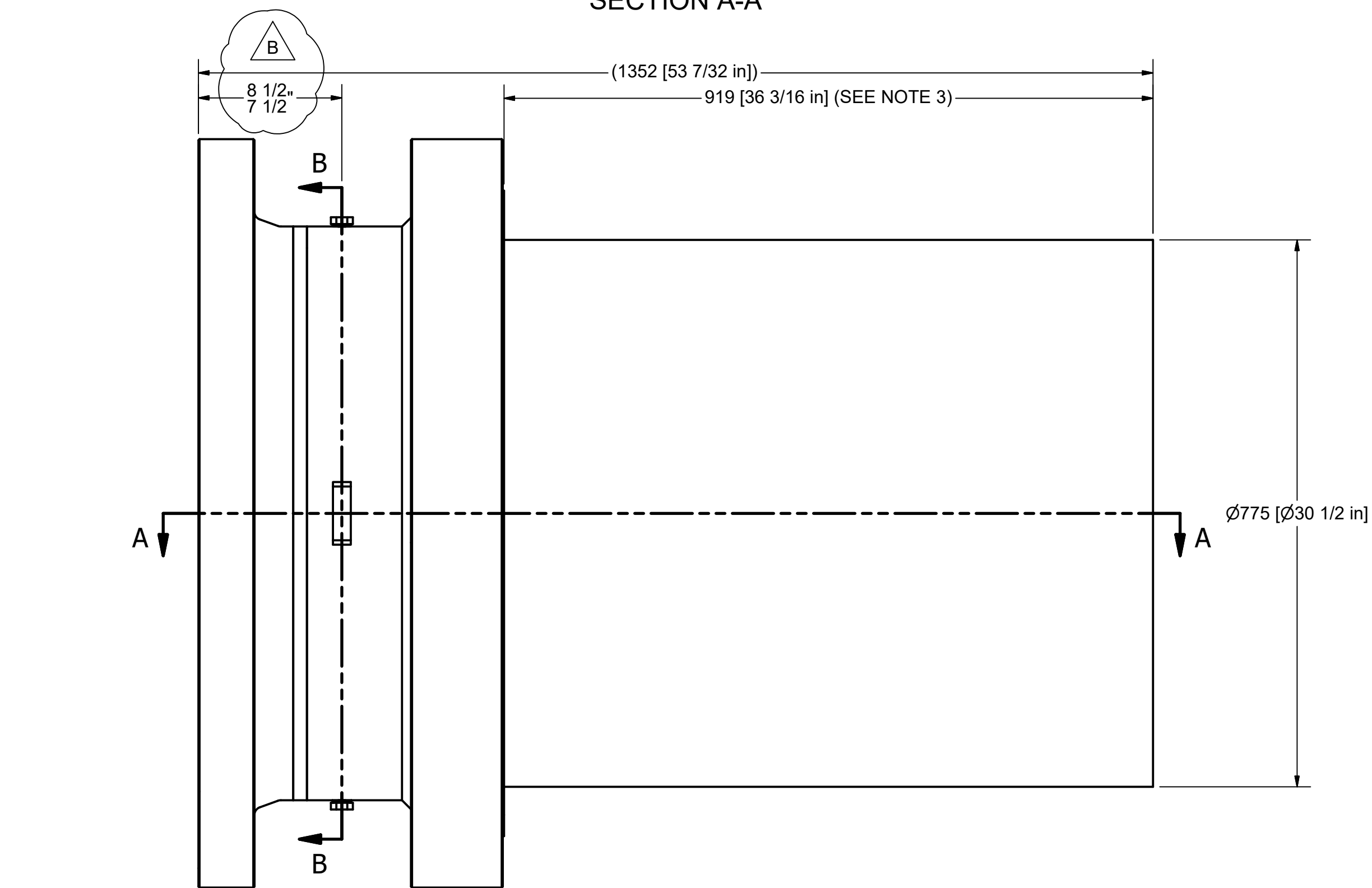
DETAIL C



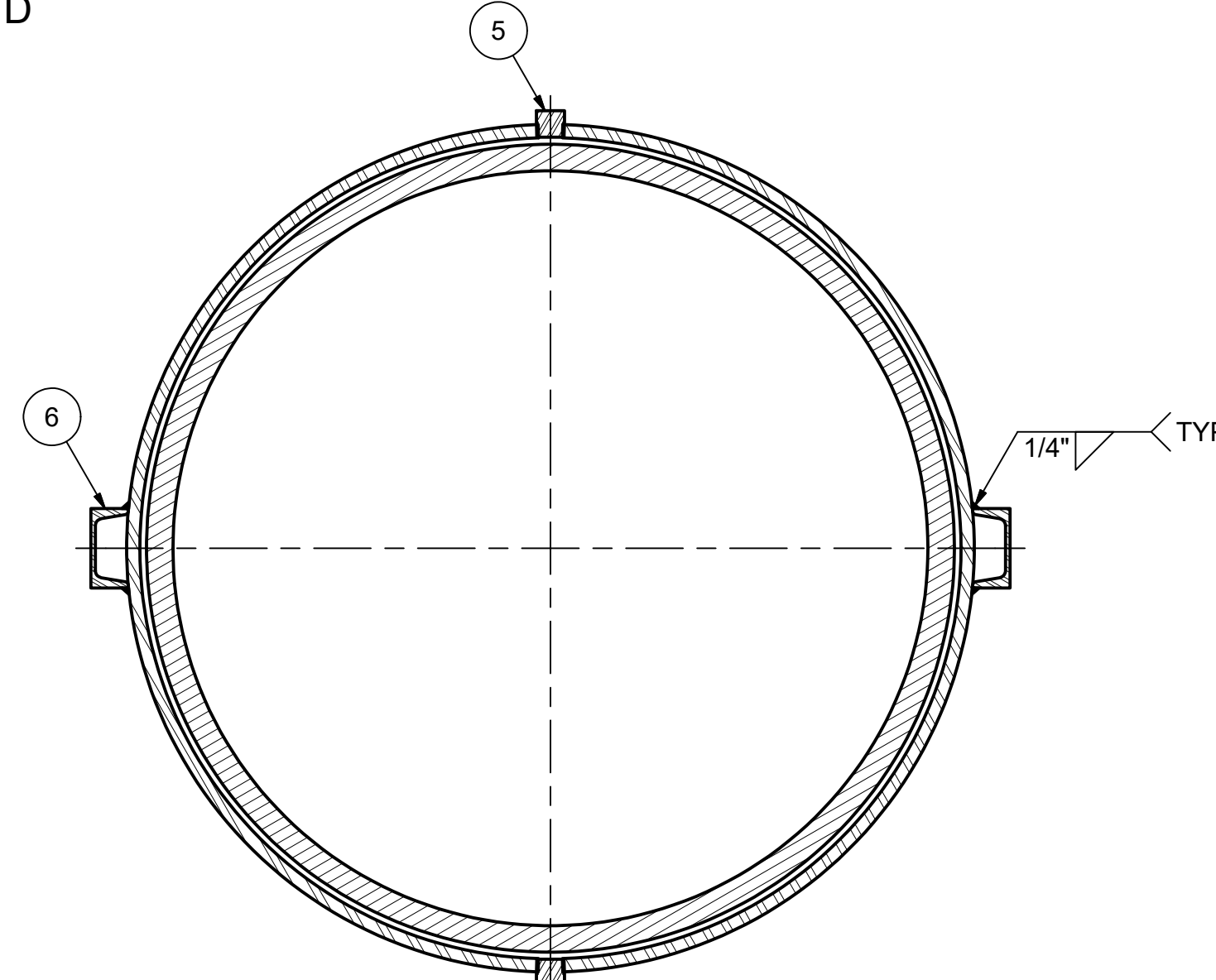
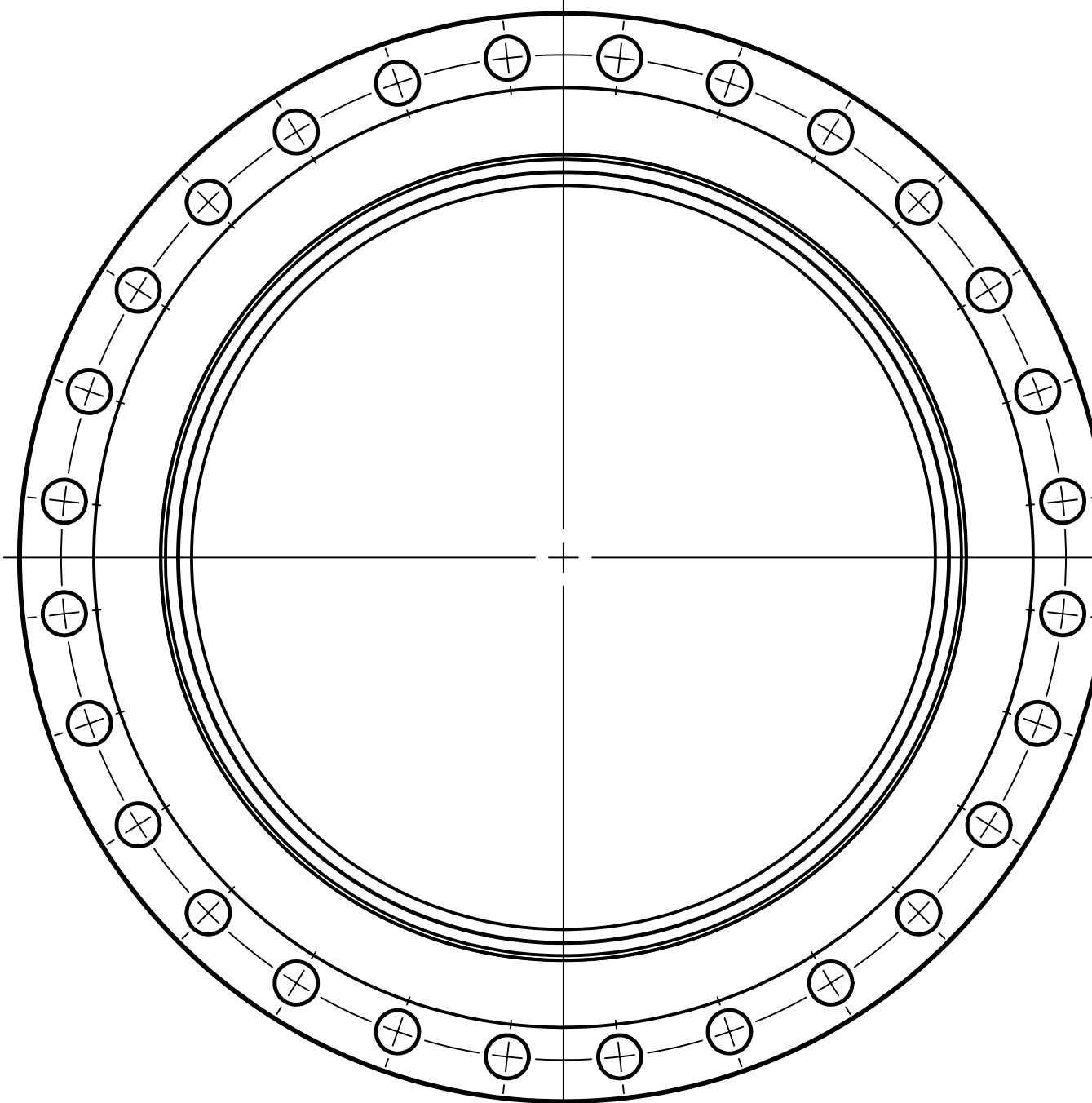
DETAIL D



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. LENGTH OF LINER INSERTION TO BE DETERMINED BY FIELD MEASUREMENT.



SECTION B-B



DESIGN CODE: ASME B31.3, 2018  
SERVICE: HYDROTRANSPORT SLURRY  
DESIGN PRESSURE: 1770 kPag (257 psig)  
DESIGN TEMPERATURE: 94°C (201°F)  
TEST PRESSURE: 2950 kPag (428 psig)  
TEST TEMPERATURE: 15°C (59°F)  
TEST DURATION: 10 MINUTES

BILL OF MATERIAL			
ITEM	ITEM QTY	PART NUMBER	DESCRIPTION
1	1	A1-19027-300-01 32in pipe	32" XS x 6 1/32" 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 32in CL150 FFWN flange	32" x 3/4" WALL CLASS 150 FFWN FLANGE, A105N
4	1	A1-19027-300-04 HCWI liner - nozzle	28 1/2" ID x 1" WALL x 53 7/32" HCWI NOZZLE LINER, ASTM A532 CLASS III TYPE A, PF#(TBD)
5	2	ASME B16.11 Hex Head Plug 3/4	3/4"-NPT HEX BULL PLUG, SA234 WPB-S9
6	2	Tag mount - 3in	C3x4.1 x 1", 44W

REVISION HISTORY			
REV	DATE	DESCRIPTION	INITIALS
B	1/21/20	FLANGE WAS 30" ALCO FLANGE, LENGTH WAS 407mm (16 1/32"), PLUGS WERE AT 8 1/2". NOTE 3 CHANGED, HYDROTEST PRESSURE WAS 2950 kPag (385 psig), UPDATED BoM, ADDED FLOW INDICATOR	GVD
A	1/07/20	ISSUED FOR REVIEW	GVD

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

EST. WT. 2,790 lbs.  
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. BREAK ALL SHARP EDGES 0.1" R. 0.10" INTERPRET DWG PER ANSI Y14.5 STANDARD.

DO NOT SCALE  
DRAWN BY: GVD  
DATE: 1/07/20  
CHECKED BY: DATE  
APPROVED: DATE  
MATERIAL & HEAT TREAT

ALCO Industrial

2103 - 8 Street,  
Nisku, Alberta, Canada T9E 7Y9  
Phone: (780) 451-6222 • Fax: (780) 452-4355

TITLE  
SPOOL RD-235-2-D-2-1  
SYNCRUDE AURORA HT2 MAIN LINE

PROJECT No: A1-19027  
REFERENCE: RD-235-002-D-002-1 Rev.A4  
FILE NAME: A1-19027-300-00 RD-235-2-D-2-1.idw

REV. B  
SHEET 1 OF 1