

1 2 3 4 5 6 7 8 9 10 11 12

A

B

C

D

E

F

G

H

A

B

C

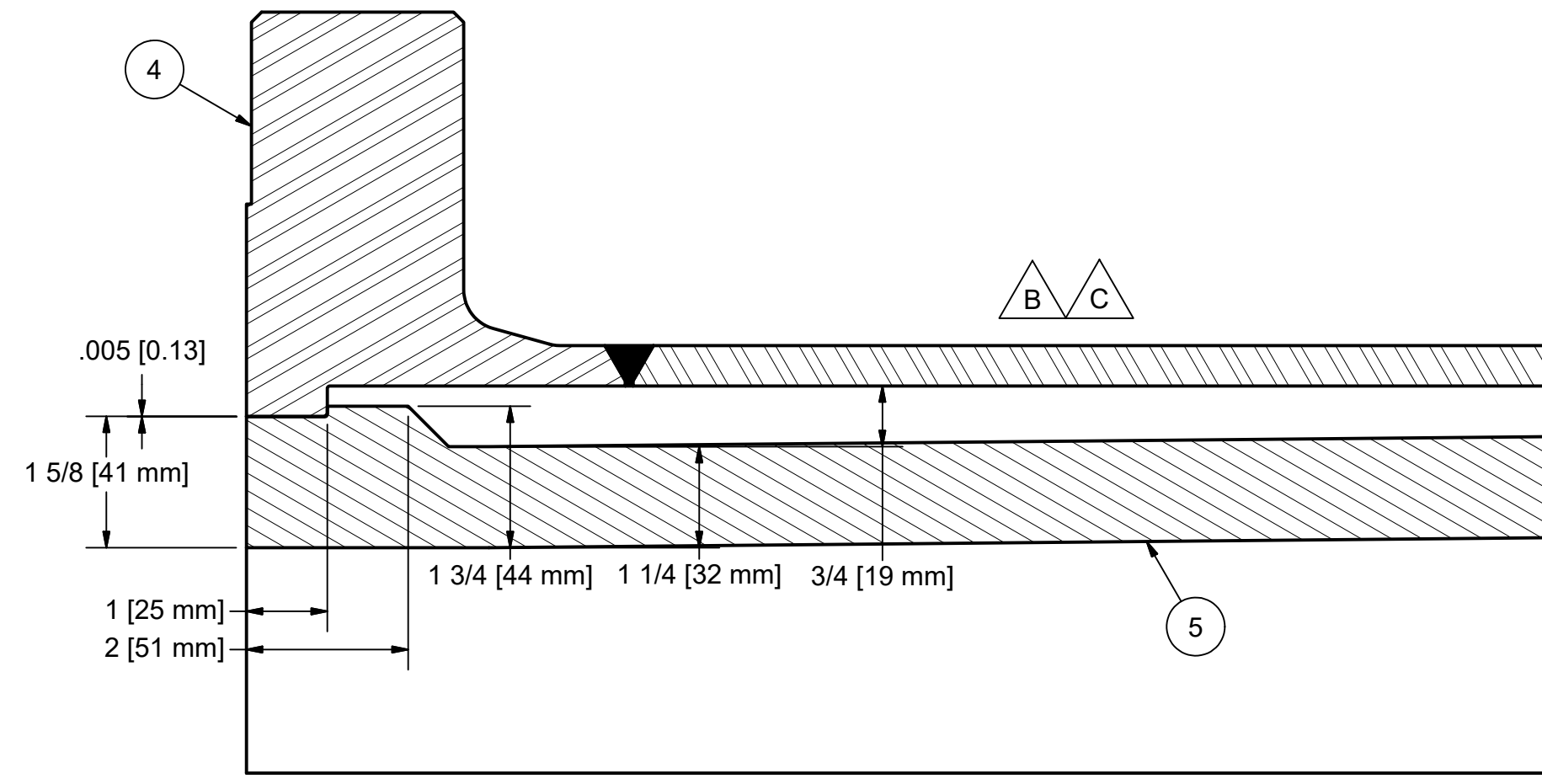
D

E

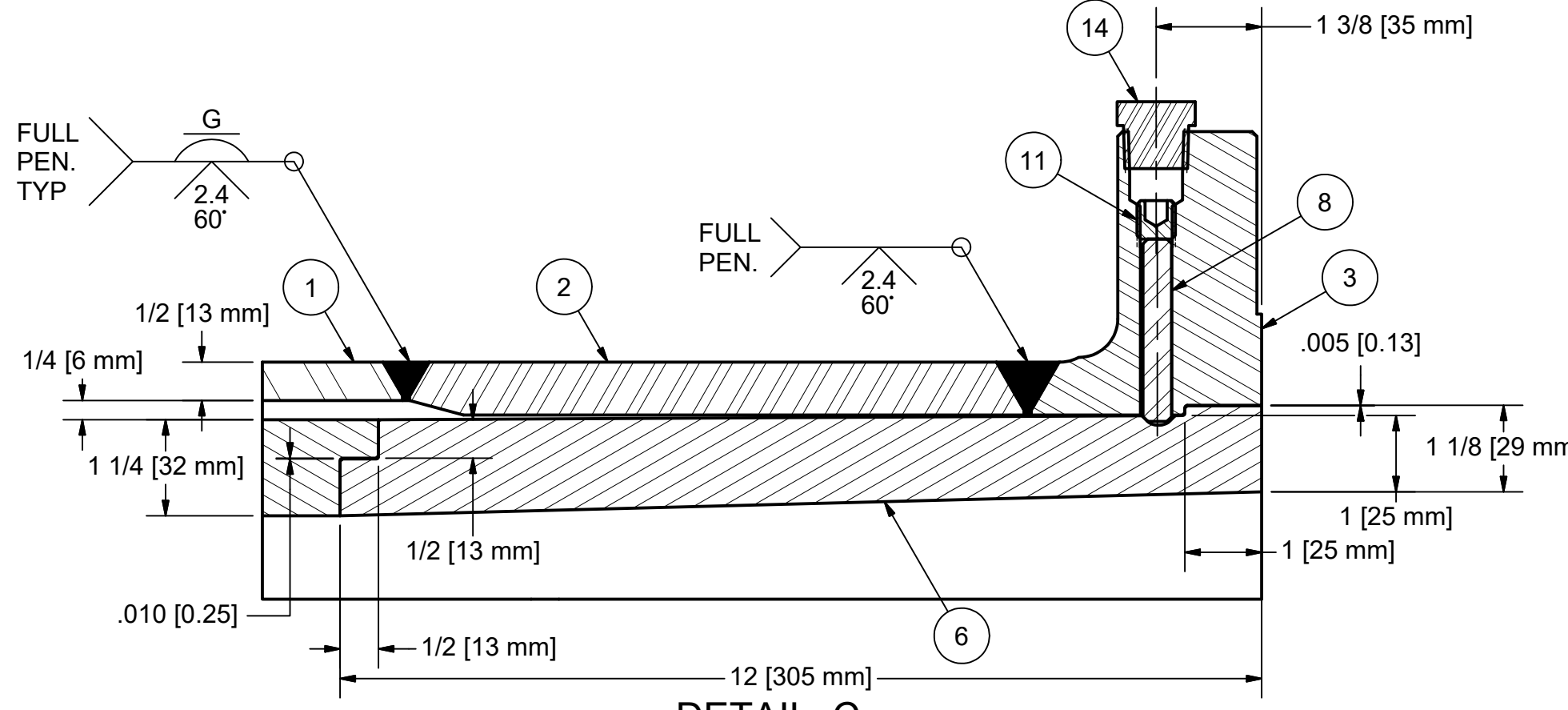
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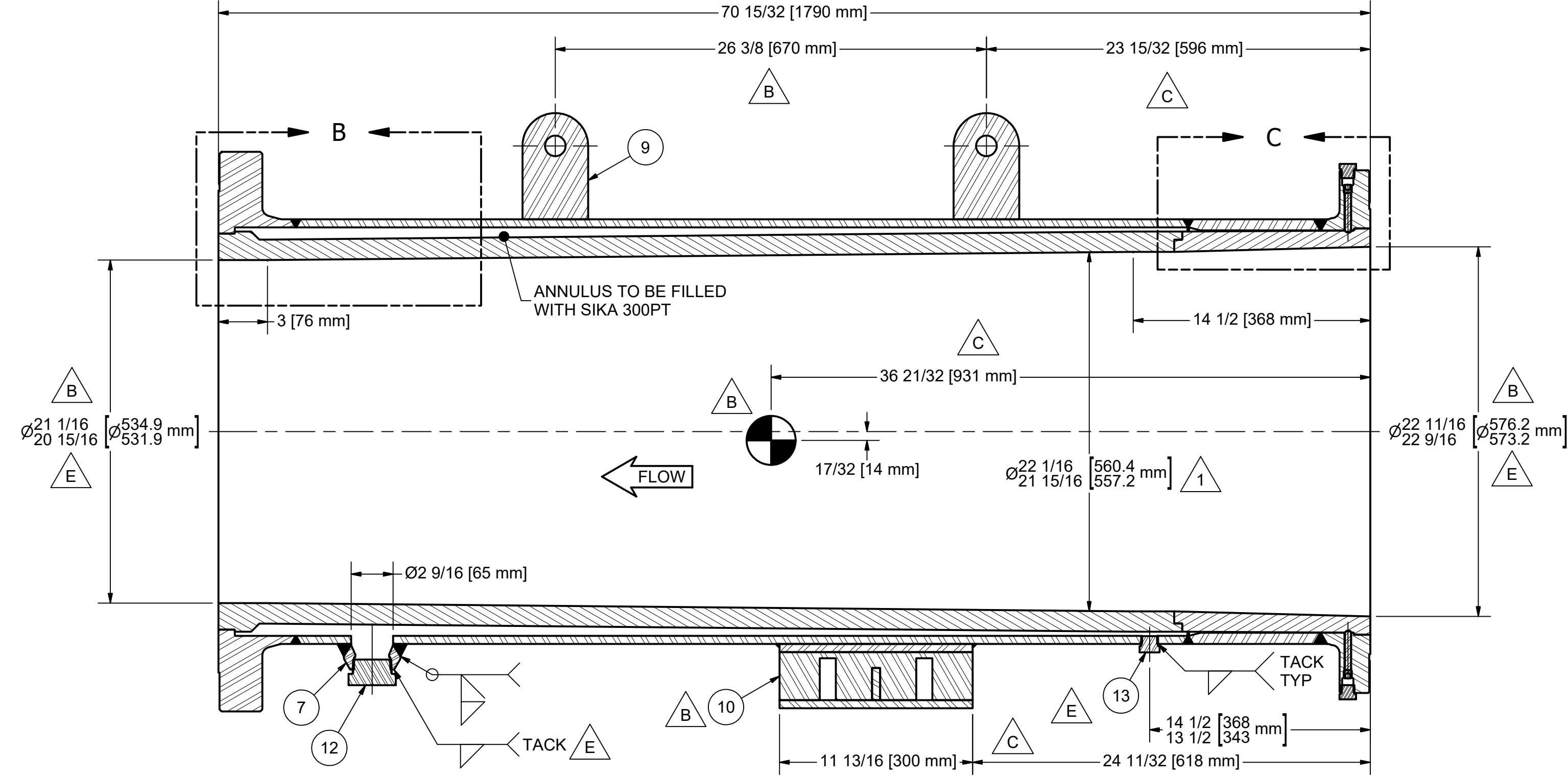
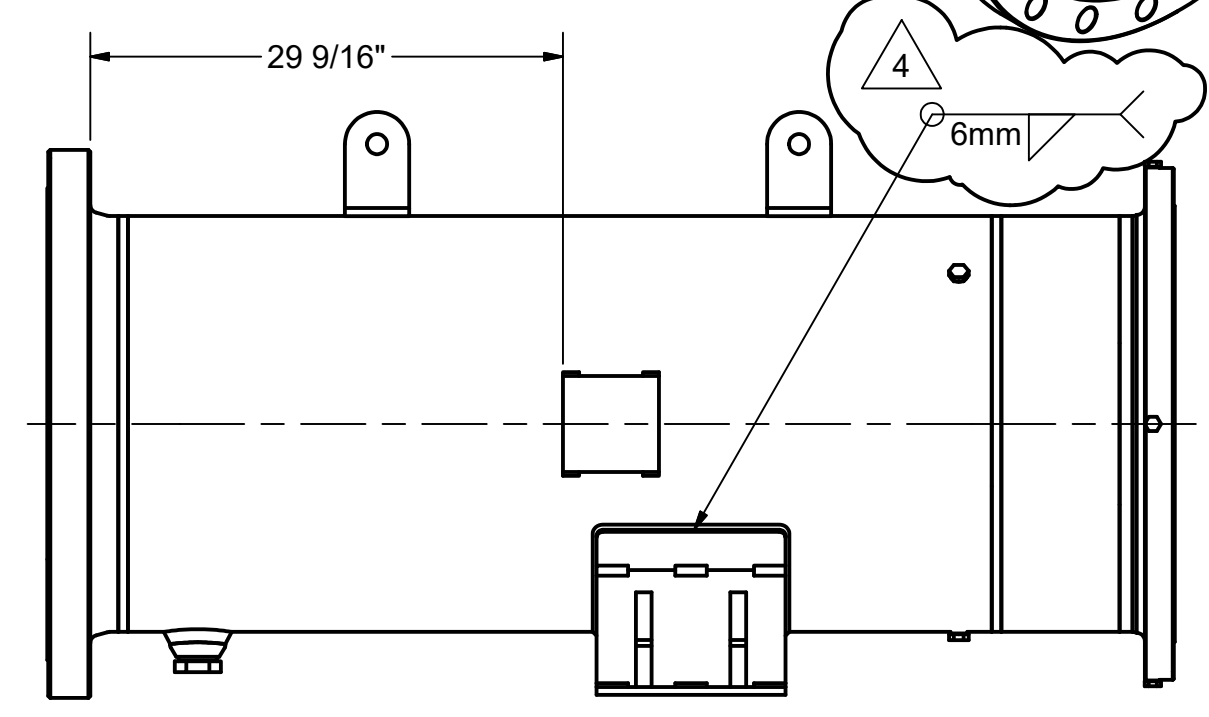
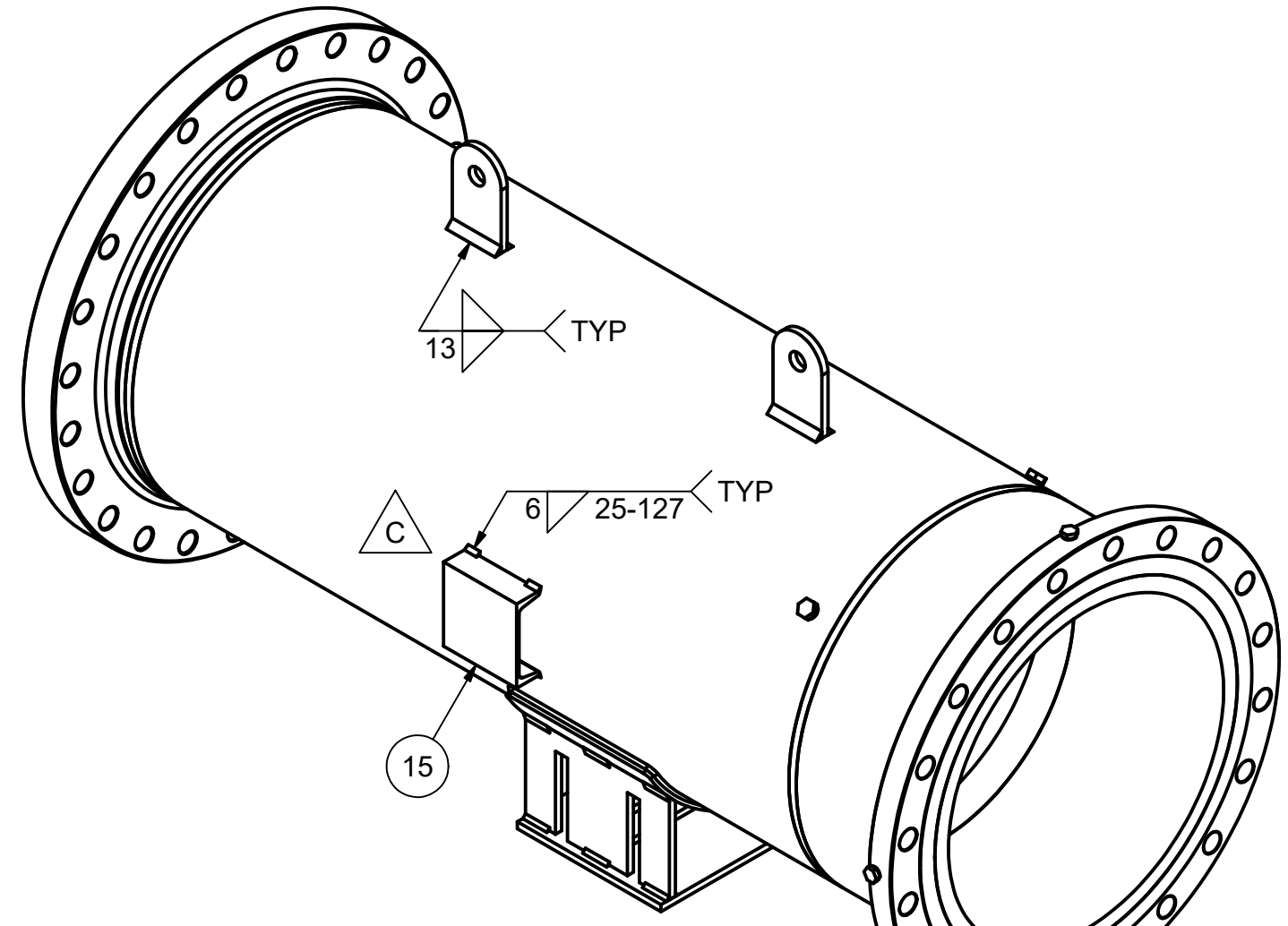
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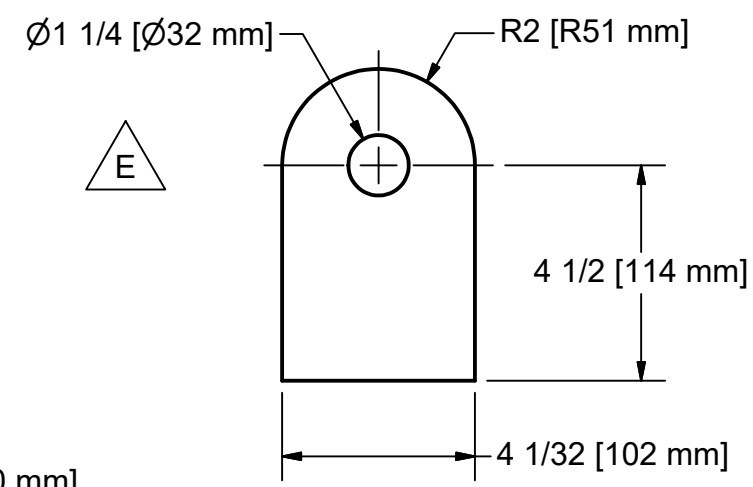
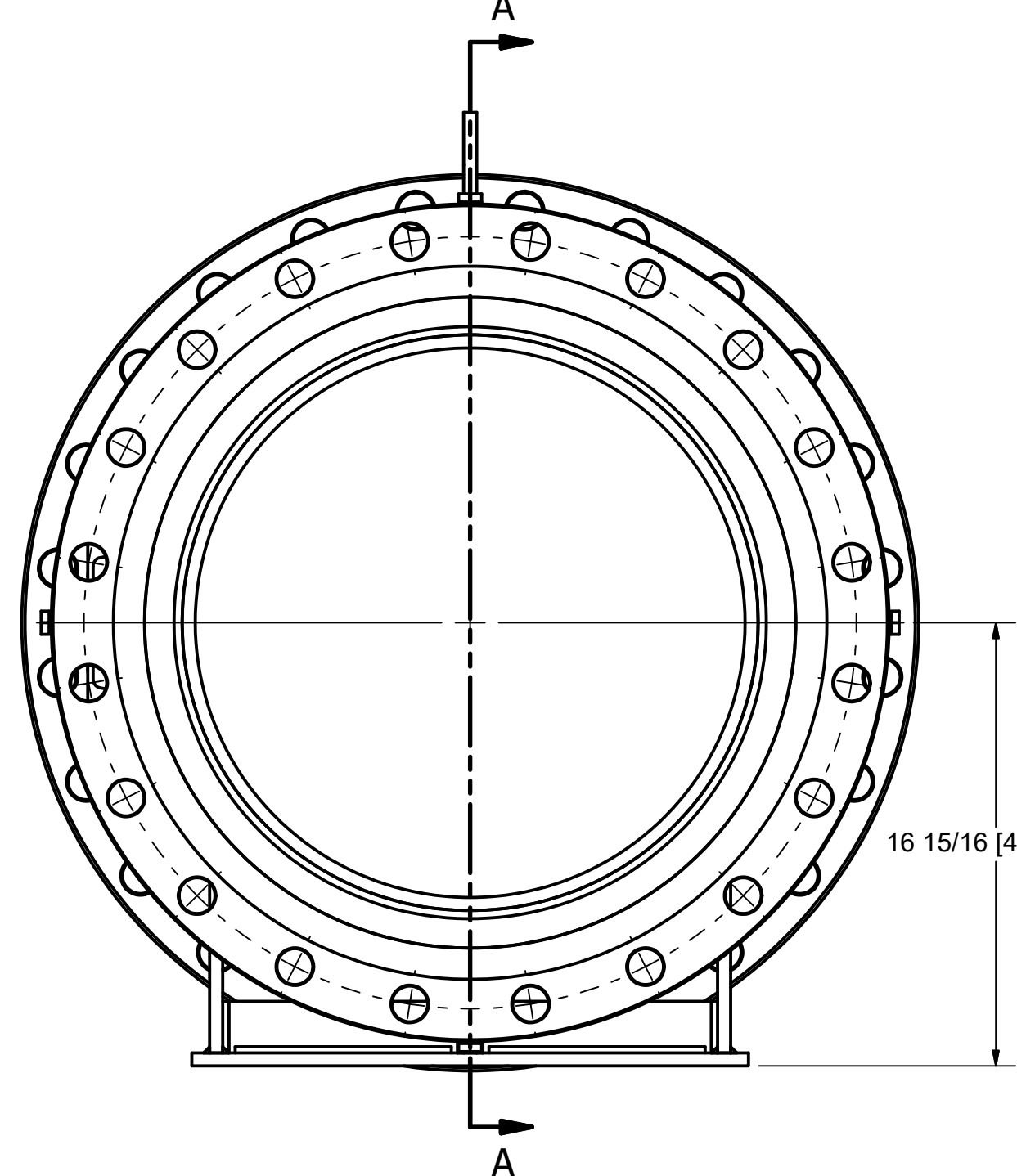
DETAIL B



DETAIL C



SECTION A-A



ITEM 9 - LIFTING LUG

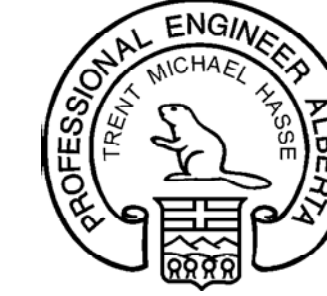
P.O.#	1397868
P.O. TITLE	MISC - K2 CWI PIPING
IOR #	141-3015-49
DOCUMENT #	1397868-A05-0009
SDRL CODE(S)	A05

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CODE 5 - SUPERSEDED  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  
DATE: SIGNATURE:

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
4	7/02/19	ADDED SHOE WELD SYMBOL
3	6/21/19	REMOVED PIPE LOCK FOR LINER, SEE A1-18001-160-00
2	6/14/19	ITEM 2 WAS 17.5mm x 203mm, ADDED LINER SHOULDER
1	4/16/19	ADDED DIMENSION, CORRECTED BoM
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
B	10/17/18	CONVERTED TO CONCENTRIC LAYOUT, ADDED SECOND STUB PIPE, ADDED LIFTING LUGS, ADDED PIPE SHOE, ADDED CoG, CORRECTED IDs, ADDED MDMT
A	8/02/18	ISSUED FOR REVIEW



ALCO INC.  
APEGGA PERMIT TO  
PRACTICE No.: P10702

DO NOT SCALE	
DRAWN BY: JDS	DATE: 7/02/19
CHECKED BY: TMH	DATE: 7/02/19
APPROVED: DATE	
MATERIAL & HEAT TREAT	

ALCO Industrial	
11650 - 156 Street, Edmonton, Alberta, Canada T6M 3T5 Phone: (780) 451-6222 • Fax: (780) 452-4355	
PROJECT No. 074-2300-080-141-009 01	REFERENCE
FILE NAME A1-18001-100-00 Spool SP-K3492.idw	REV. 4
SHEET 1 OF 1	

ITEM		BILL OF MATERIAL	
ITEM QTY	PART NUMBER	DESCRIPTION	
1	A1-18001-100-01 26in pipe	26" XS x 1224mm PIPE, API 5L Gr.B PSL-2	
2	A1-18001-100-02 26in pipe	26" x 17.5mm WALL x 203mm PIPE, API 5L Gr.B PSL-2	
3	A1-18001-100-03 24in CL150 RF flange - custom	24" CLASS 150 ASME B16.5 RF SO FLANGE, A105N, Ø24 5/8" BORE	
4	A1-18001-100-04 26in CL150 RF flange - custom	26" CL150 ASME B16.47 Ser.A RFWN FLANGE, A105N, Ø24 1/4" BORE	
5	A1-18001-100-05 HCWI reducer	533mm ID x 32mm WALL x 559mm ID x 32mm WALL x 1498mm HCWI REDUCER, ASTM A532 CLASS III TYPE A, PF#743099	
6	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	A1-18001-100-07 2in x 26in CL3000 threadolet	2" x 26" CLASS 3000 THREADOLET, A105N	
8	A1-18001-100-08 Trap rod	Ø3/8" x 60mm ROUND BAR, A36	
9	A1-18001-100-09 Lifting lug	165mm x 102mm x 1/2" PLATE, A516 Gr.60 OR EQUIV.	
10	A1-18001-410-00 Pipe shoe - S4-A-1-26	AS PER 074-0000-220-000-026 01	
11	ANSI B18.3 - 1/2-13 UNC x 0.5	1/2"-NC x 1/2" SOCKET HEAD SET SCREW, PLATED	
12	ASME B16.11 Hex Head Plug 2	2"-NPT HEX HEAD PLUG, A105N	
13	ASME B16.11 Hex Head Plug 3/4	3/4"-NPT HEX HEAD PLUG, A105N	
14	ASME B16.11 Hex Head Plug 1/2	1/2"-NPT HEX HEAD PLUG, A105N	
15	Tag mount - 6in	C6x8.2 x 6" [152mm], 44W	
16	AS REQ'D GROUT	SIKA 300PT	