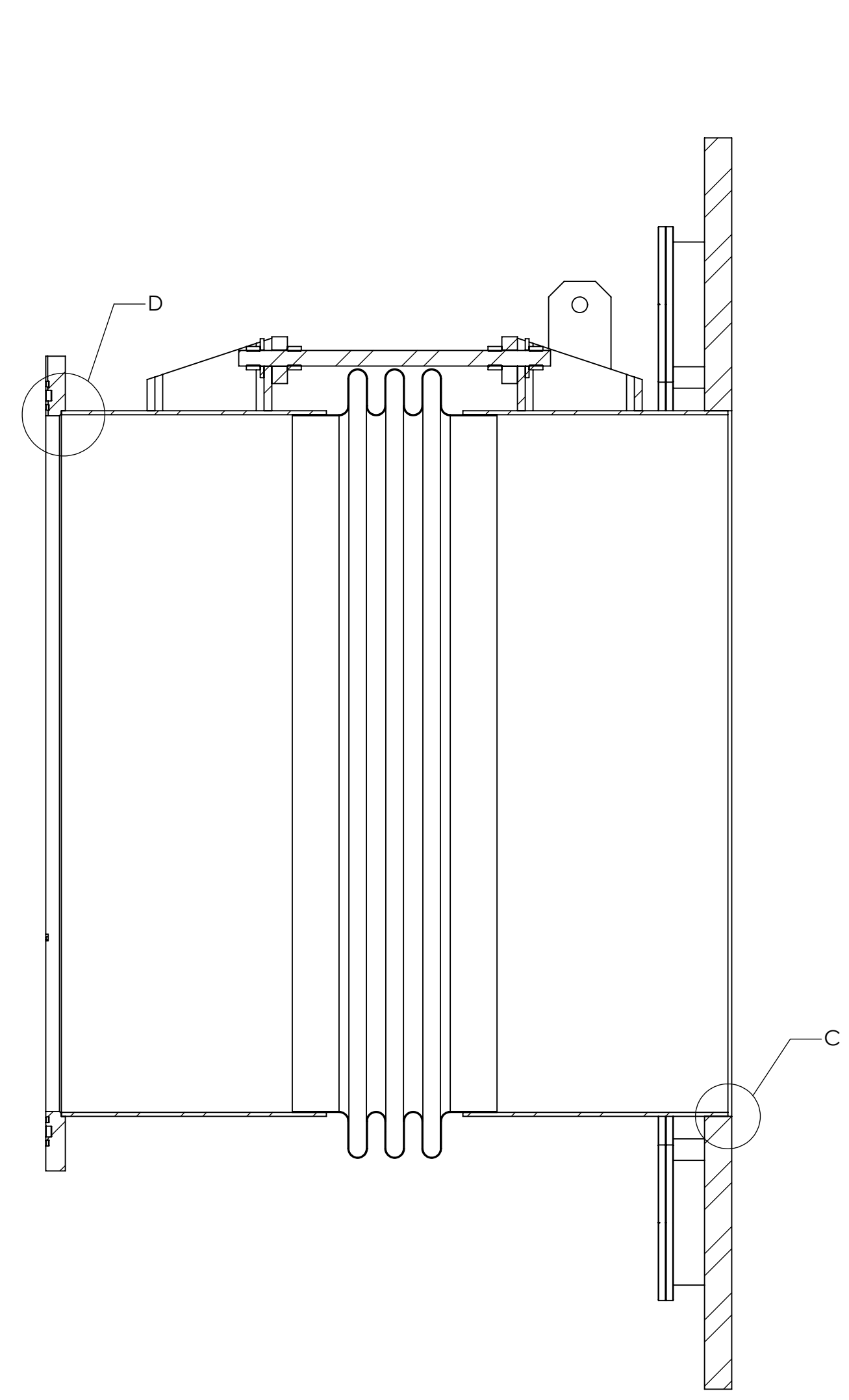
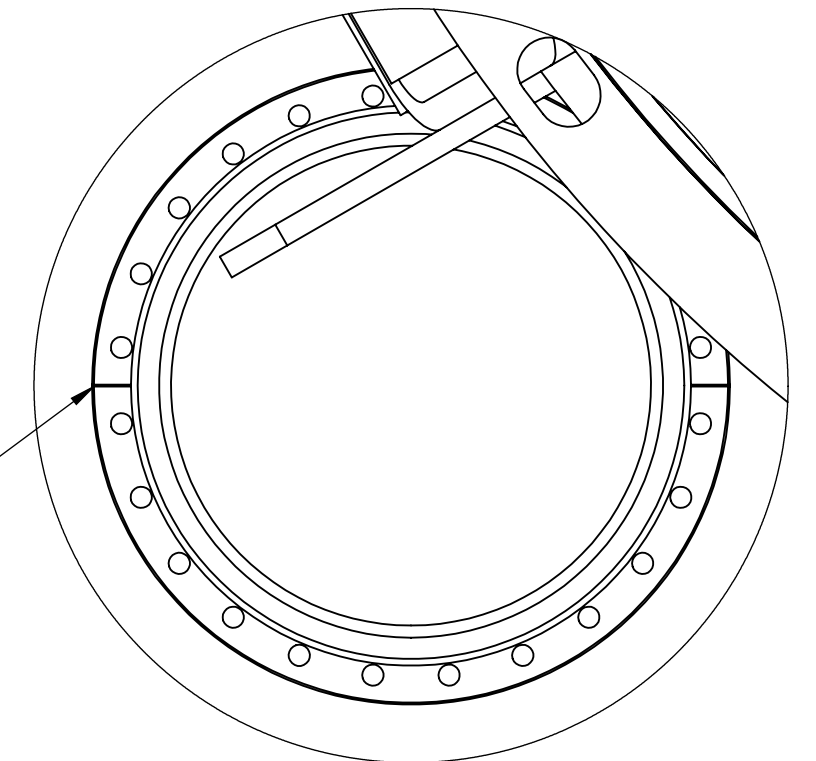
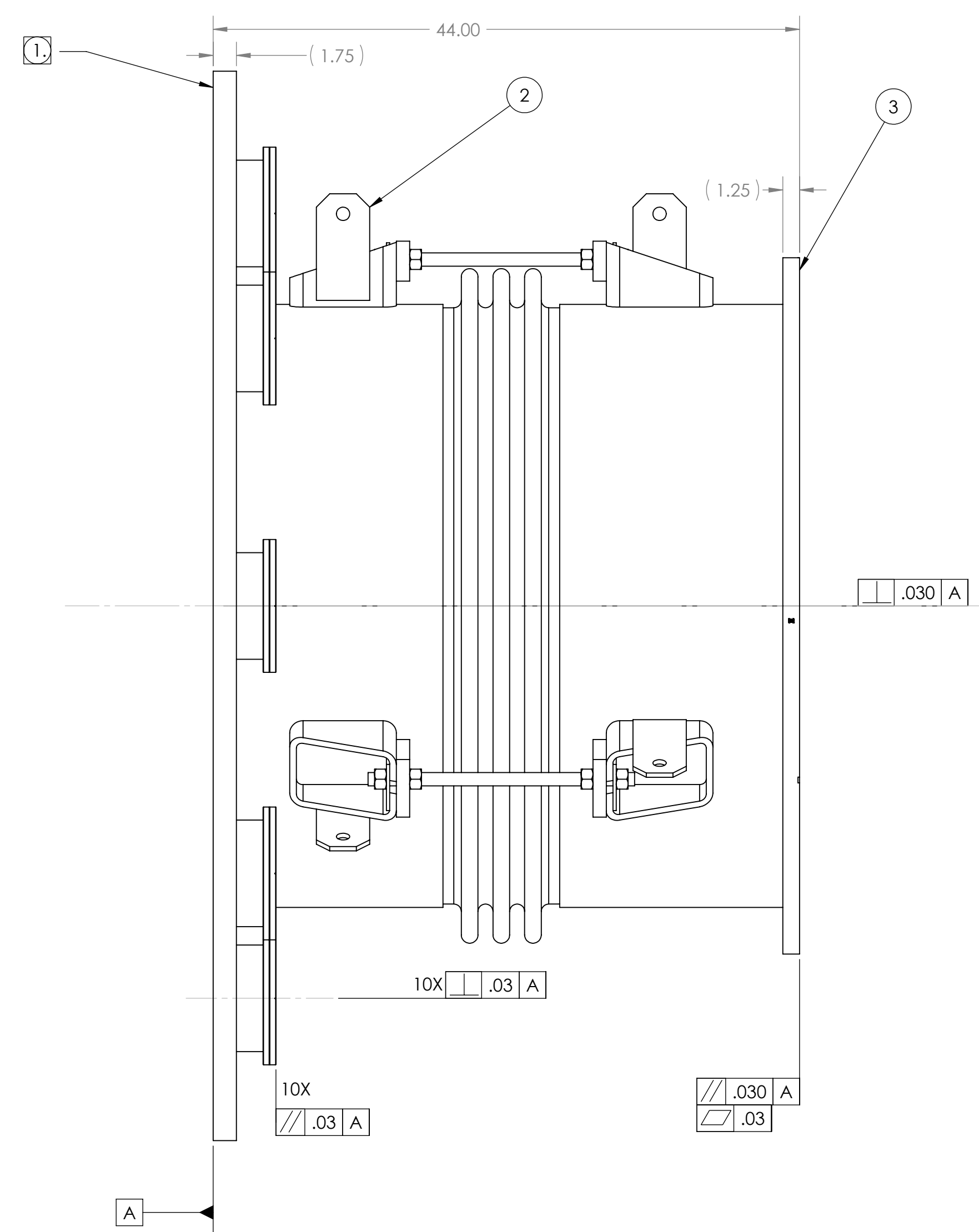
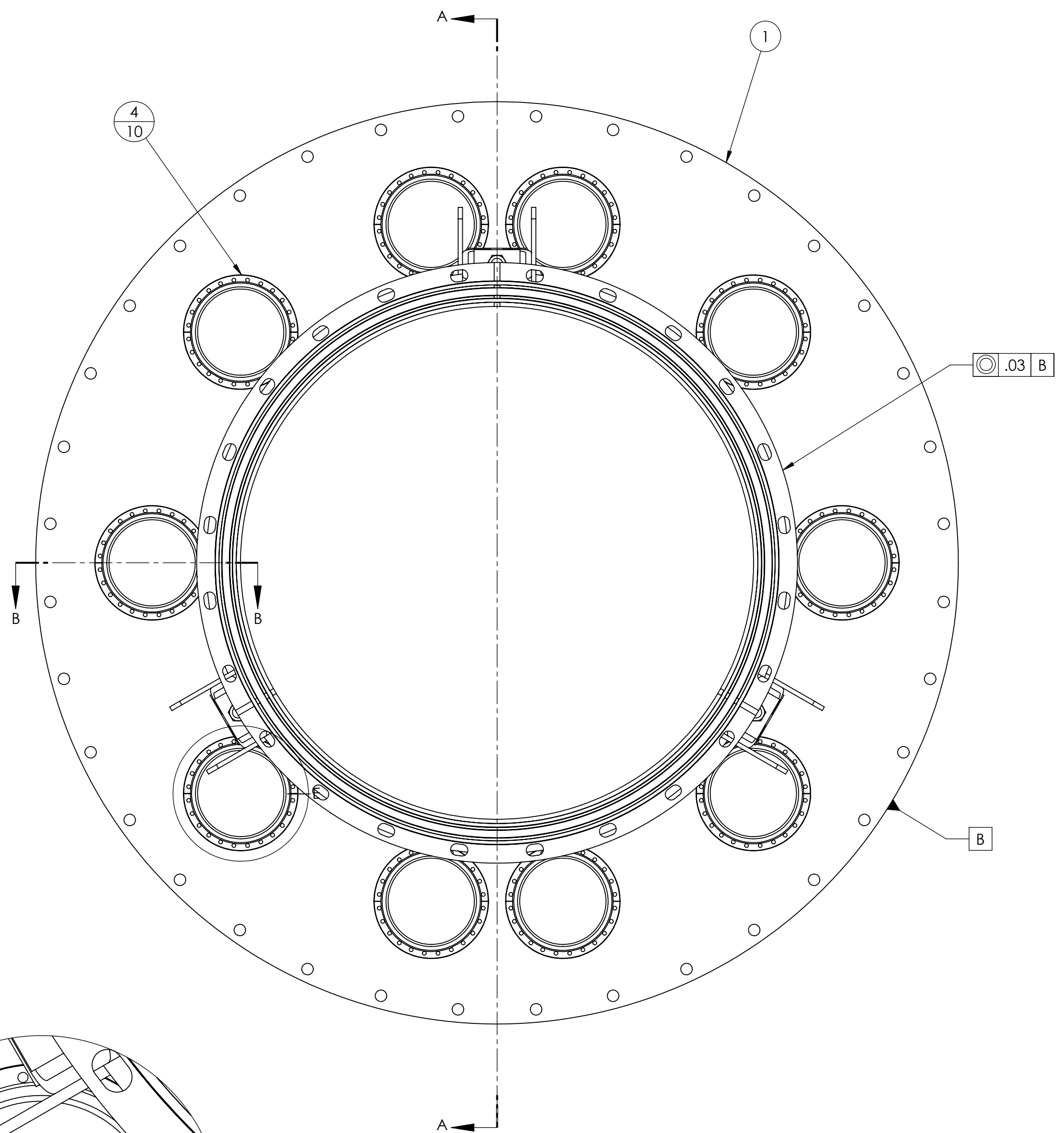


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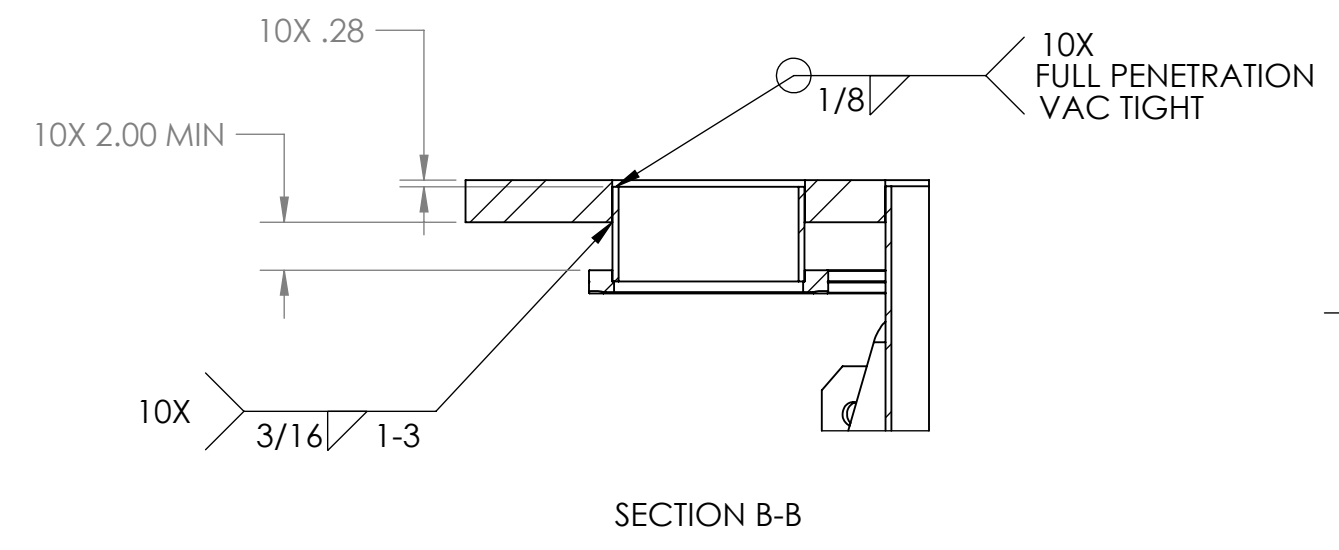
| REVISIONS |      |  |           |          |
|-----------|------|--|-----------|----------|
| ZONE      | REV. | DESCRIPTION  | DATE      | APPROVED |
|           | A    | REVISED BOM TO MATCH PROCUREMENT METHOD              | 6/30/2010 | MKM2     |
|           | B    | REVISED WELD CALLOUTS, ENLARGED VIEWS, 1.75 WAS 1.00 | 7/20/2010 | MKM2     |
|           | C    | RELEASED TO PRODUCTIN                                | 8/23/2010 | MKM2     |



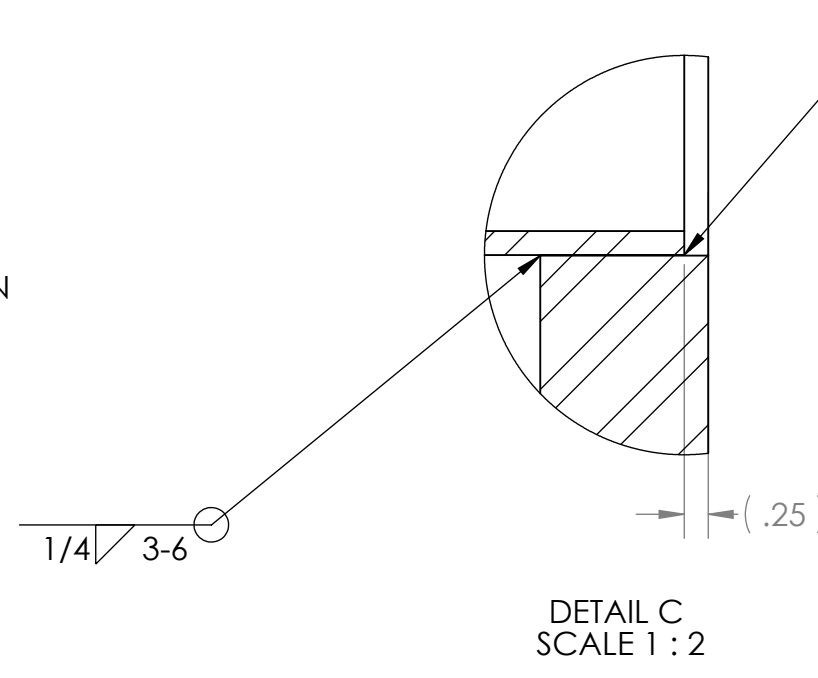
SECTION A-A



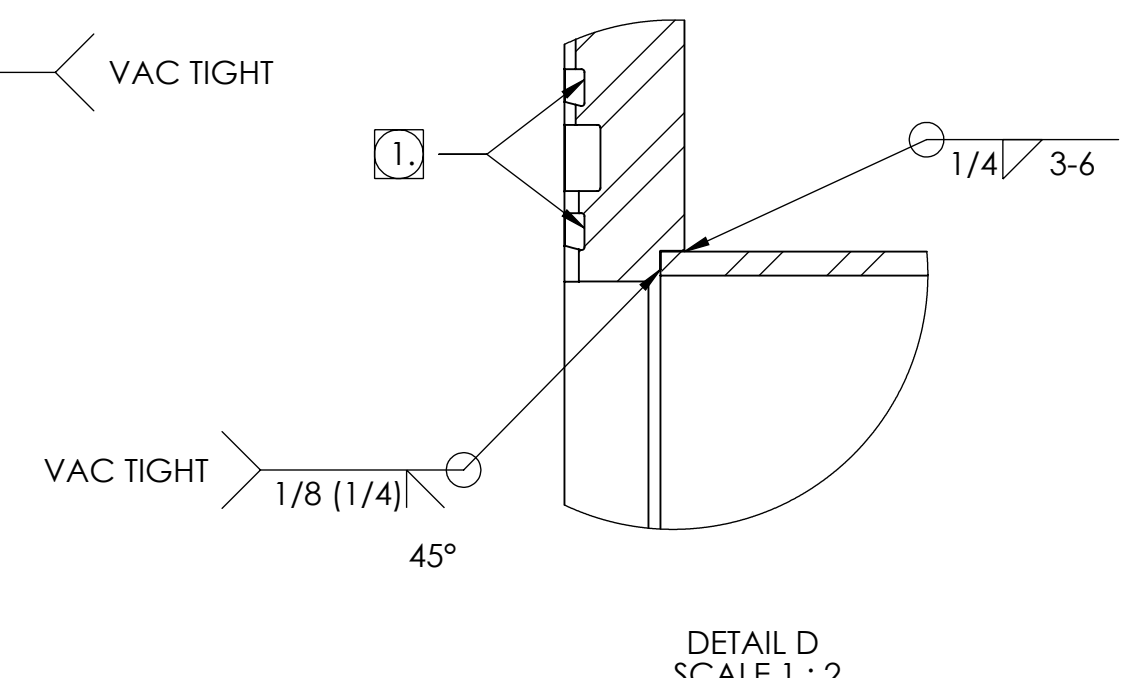
DETAIL E  
SCALE 1 : 3



SECTION B-B



DETAIL C  
SCALE 1 : 2



DETAIL D  
SCALE 1 : 2

- NOTES:
- VACUUM SEALING SURFACE
  - WELD ITEMS 3 AND 2 FIRST, THEN WELD ITEM 1 ON SUCH AS TO MAINTAIN A TOTAL LENGTH OF 44.00 ± .125 INCHES.
  - ALL WELDS TO BE SMOOTH BUT NO GRINDING IS ALLOWED.
  - ALL WELDS TO BE GTAW.
  - ALL WELD PREPARATION TO BE DONE BY TUNGSTON CARBIDE TOOLING IF NEEDED.
  - ALL WELDING TO BE IN ACCORDANCE WITH QP1750-W2, LIGO WELDING AND REPAIR PROCEDURE.
  - AFTER WELDING, COMPLETE COMPONENT TO BE CLEANED PER QP1730-10, CONTAMINATION CONTROL PLAN.
  - COMPONENT TO BE FREE FROM CONTAMINATION PER QP1730-10, CONTAMINATION CONTROL PLAN.
  - COMPONENT CLEANLINESS TO BE TESTED PER QP1750-A3, LIGO CLEANLINESS TESTING.
  - LEAVE TIE-RODS INSTALLED AT ALL TIMES.

| ITEM NO. | PART NUMBER | DESCRIPTION                 | QTY. |
|----------|-------------|-----------------------------|------|
| 1        | 114302-00S  | FLANGE, LARGE, ADAPTER A-17 | 1    |
| 2        | 114300-00WS | WELDMENT, BELLOWS AND TUBES | 1    |
| 3        | 114304-00S  | FLANGE, SMALL, ADAPTER A-17 | 1    |
| 4        | 114260-01WS | WELDMENT, PORT, 10" CF      | 10   |

MATERIAL: AISI 304/AISI 304L DUAL CERT PER SA240  
 UNLESS OTHERWISE SPECIFIED: WEIGHT: 2352.01 #

APPROVALS: \_\_\_\_\_ DATE: \_\_\_\_\_

DRAWER: MKM2 6/11/10  
 CHECKER: RW 6/14/10  
 ENGINEER: MKM2 6/11/10

GNB CORPORATION  
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 3200 DWIGHT RD, SUITE #100  
 ELK GROVE, CA 95758  
 916-395-3003 FAX: 916-395-3363  
 www.gnbolives.com

TITLE: **WELDMENT, FINAL, ADAPTER A-17**

DO NOT SCALE DRAWING

DWG. NO. 114296-00WS  
 SCALE: 1:8 SHEET 1 OF 1

REV C