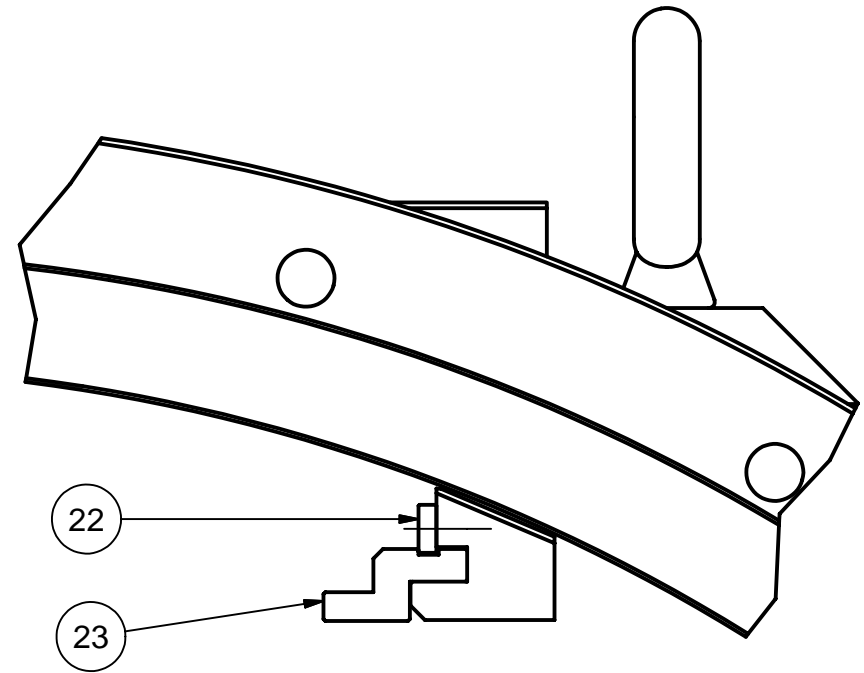


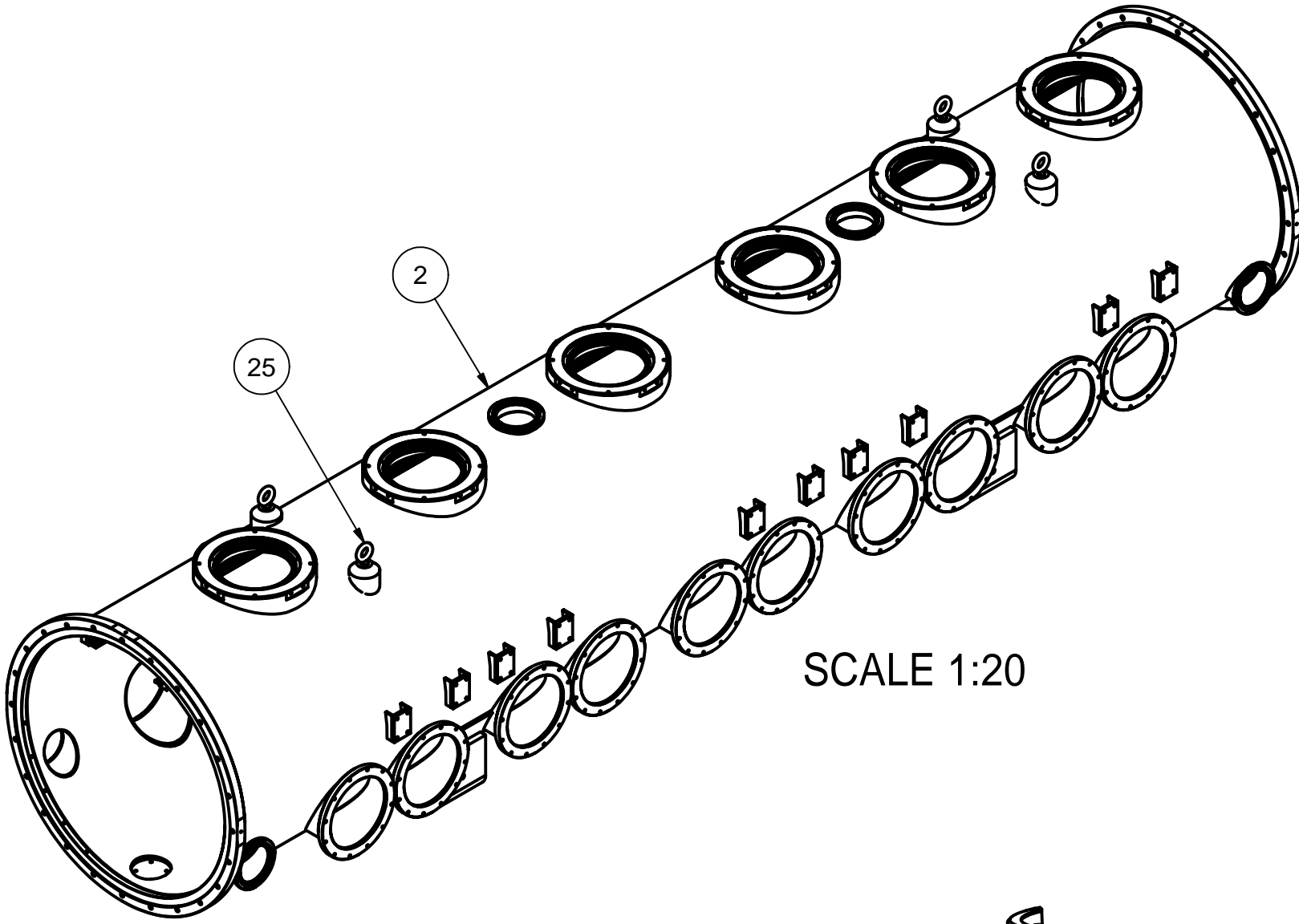
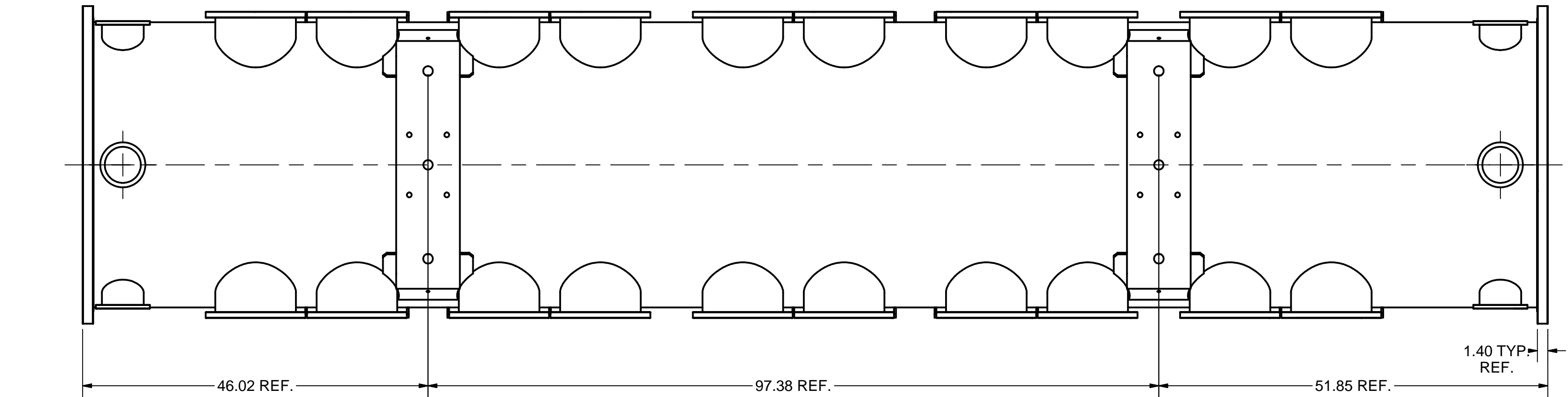
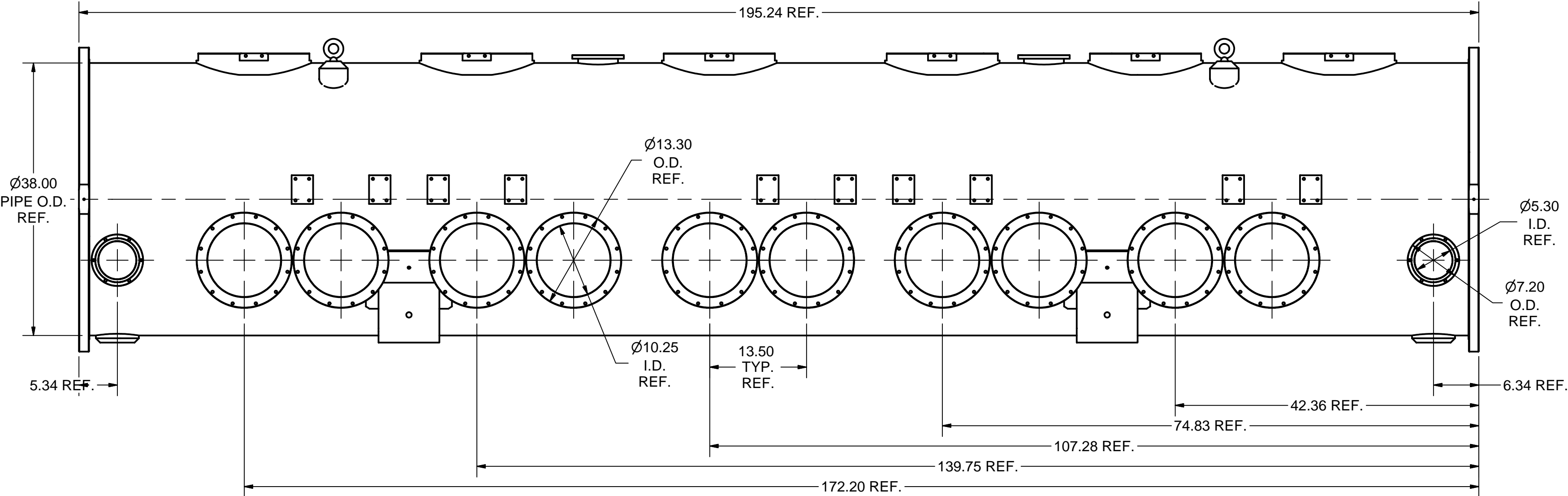
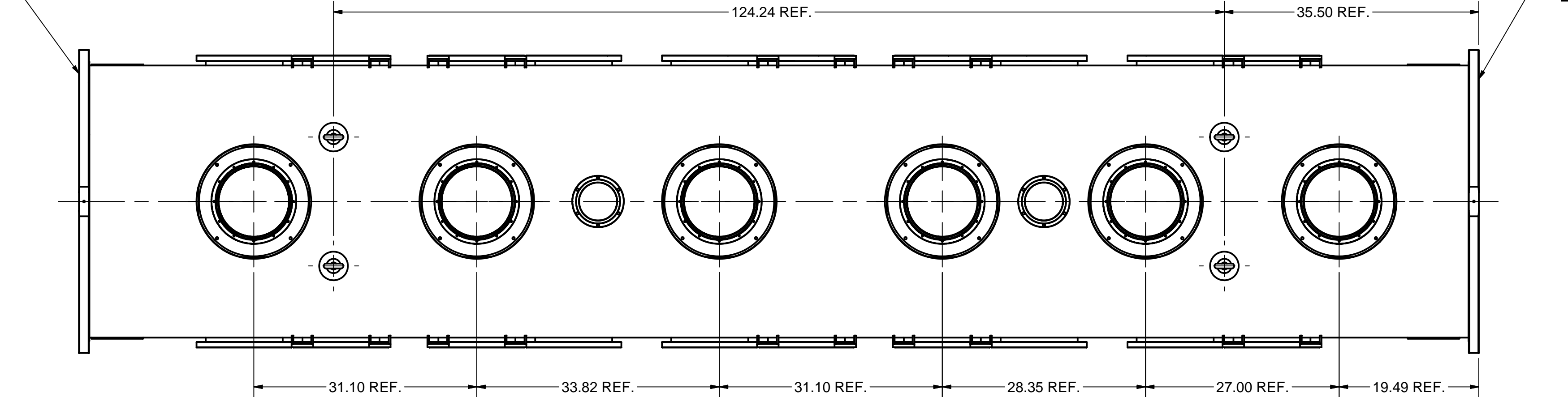
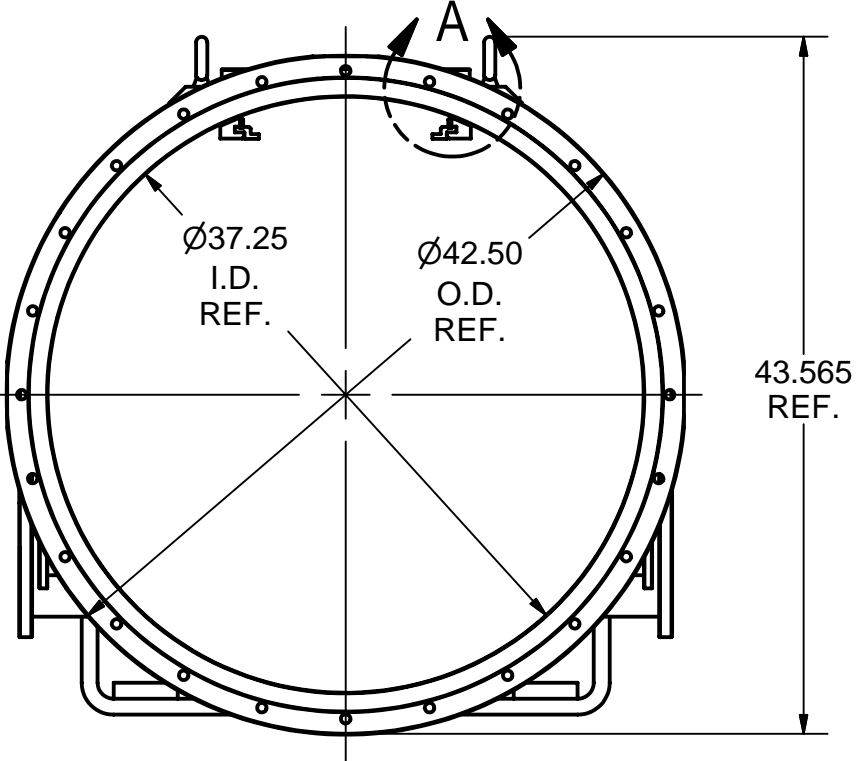
BEAM ENTRANCE - USE
ENDPLATE 7110-004

BEAM EXIT - USE
ENDPLATE 7110-005

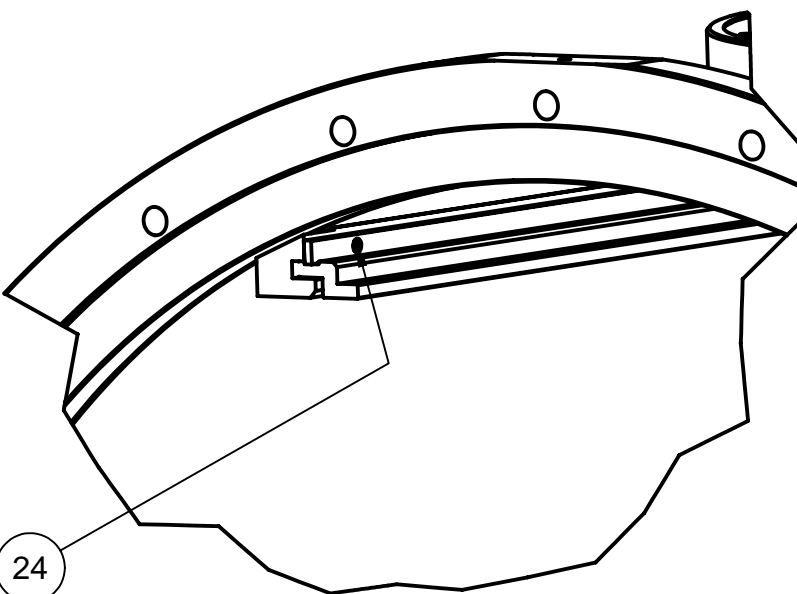
REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A		ADDED 'BEAM ENTRANCE/EXIT' LABELS TO TOP VIEW. TMK	7/12/07	EPC
B		NEW HOLES ON VESSEL FOOT ARE SHOWN ON FRONT AND ONE OF ISO VIEWS.	10/04/07	VM



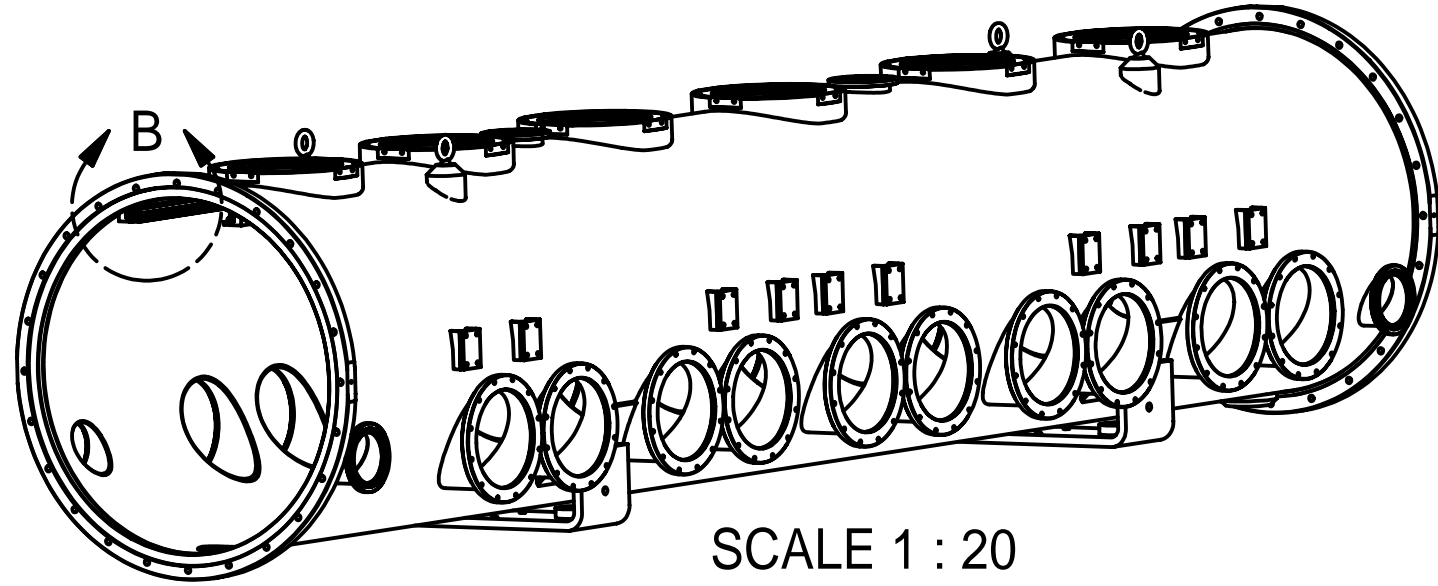
DETAIL A
SCALE 1 :2



SCALE 1:20



DETAIL B
SCALE 1 :4



SCALE 1 : 20

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25	PUR.	5/8-11 EYE BOLT	4					
24	PUR.	HEX SOCKET COUNTERSUNK HEAD CAP SCREW 5-40 UNC-0,375	34					
23	7102-053 (SH.15)	VACUUM VESSEL RAIL	2					
22	7102-053 (SH.14)	GUIDING STRIP	2					
2	7102-053 (SH. 2+3)	VACUUM VESSEL WELDMENT IV, MACHINING A+B	1					
1	7102-053 (SH. 1)	VACUUM VESSEL ASSEMBLY	X	1				

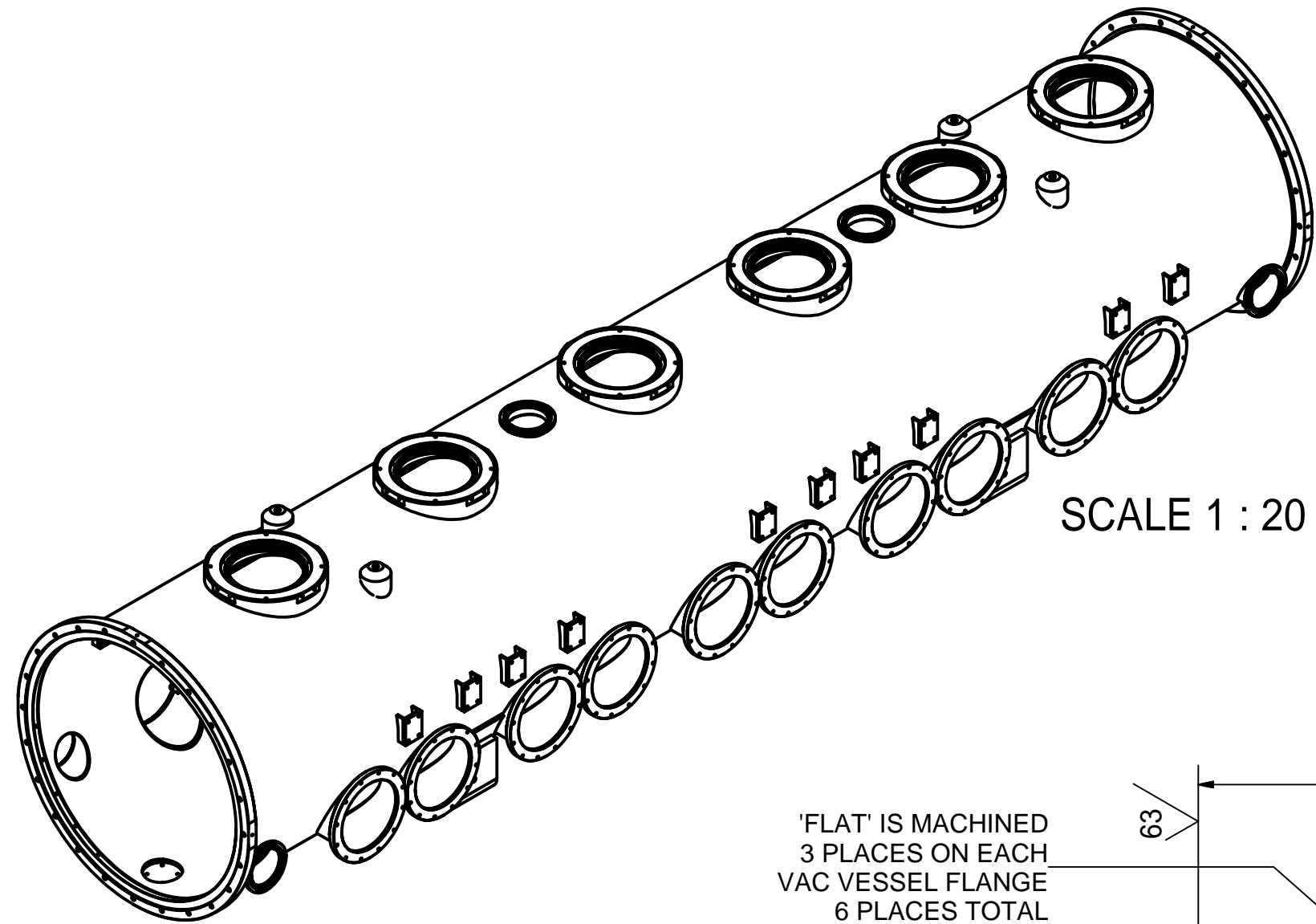
ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
PRINT DISTR.	D	PLOT DATE: 10/5/2007 CAD FILE NAME: 7102-053.idw					
SH. NO. 1 OF 15	7102-053	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .00 ± .02 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES					
REV. B		CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853 ERL Injector Cryomodule Vacuum Vessel, Assembly					
		CHECKED BY: EPC APPROVED BY: EPC	DRAWN BY: RHE / JO	DRAWN FOR: M.Liepe	DATE: 2/15/2007	SCALE: D	7102-053 SH. NO. 1 OF 15 REV. B

1 VAC VESSEL, ASSEMBLY

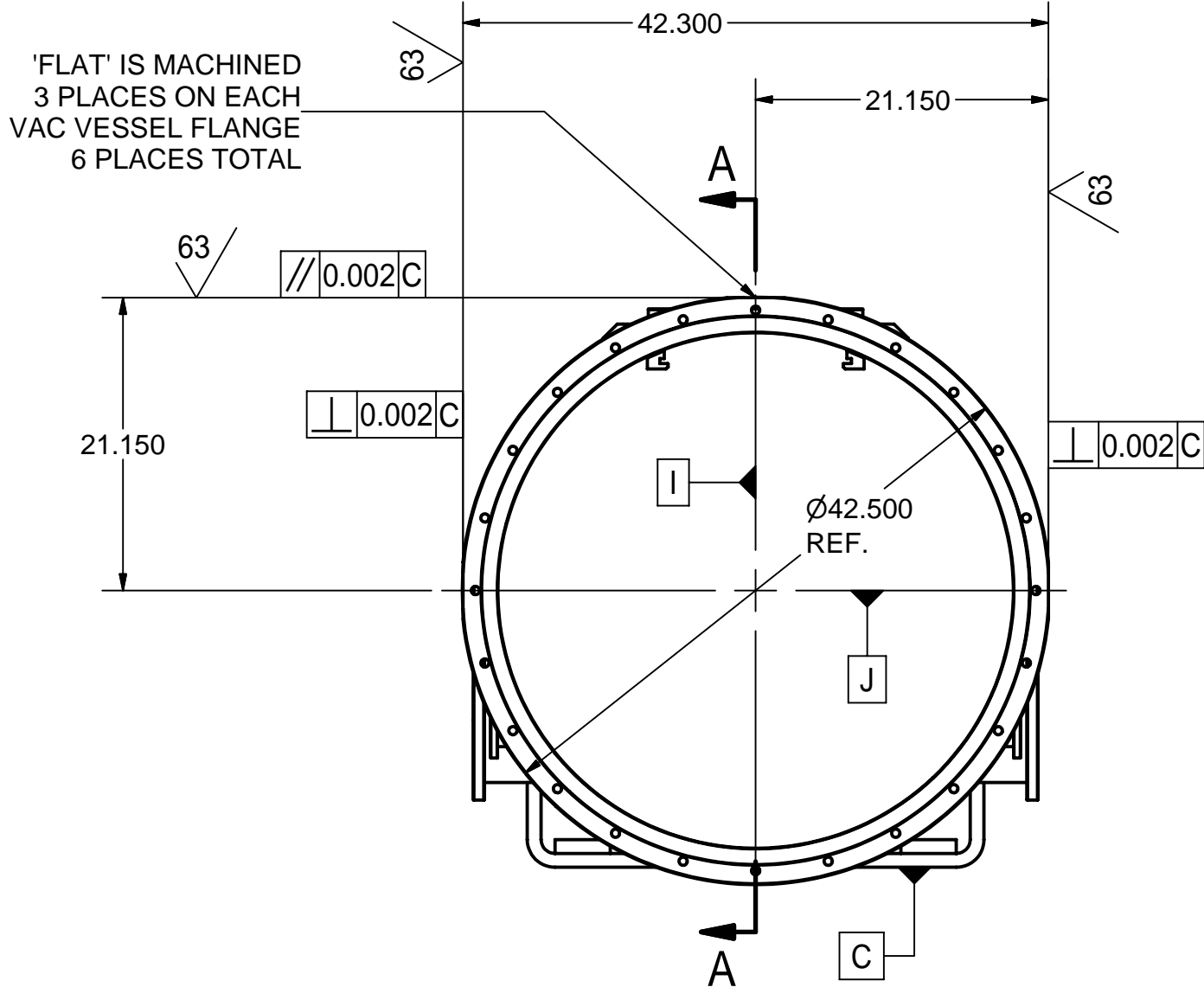
FILE NAME: 7102-053
SHEET NO.: 1
DFT. SCALE: 1:12
MATERIAL: AS NOTED
QTY: 1 REQ'D
NOTES:

FOR MACHINING LUBRICANT USE ONLY
ALKALINE DETERGENT LUBRICANT CIMSTAR 40
OR EQUIVALENT APPROVED BY CORNELL LEPP

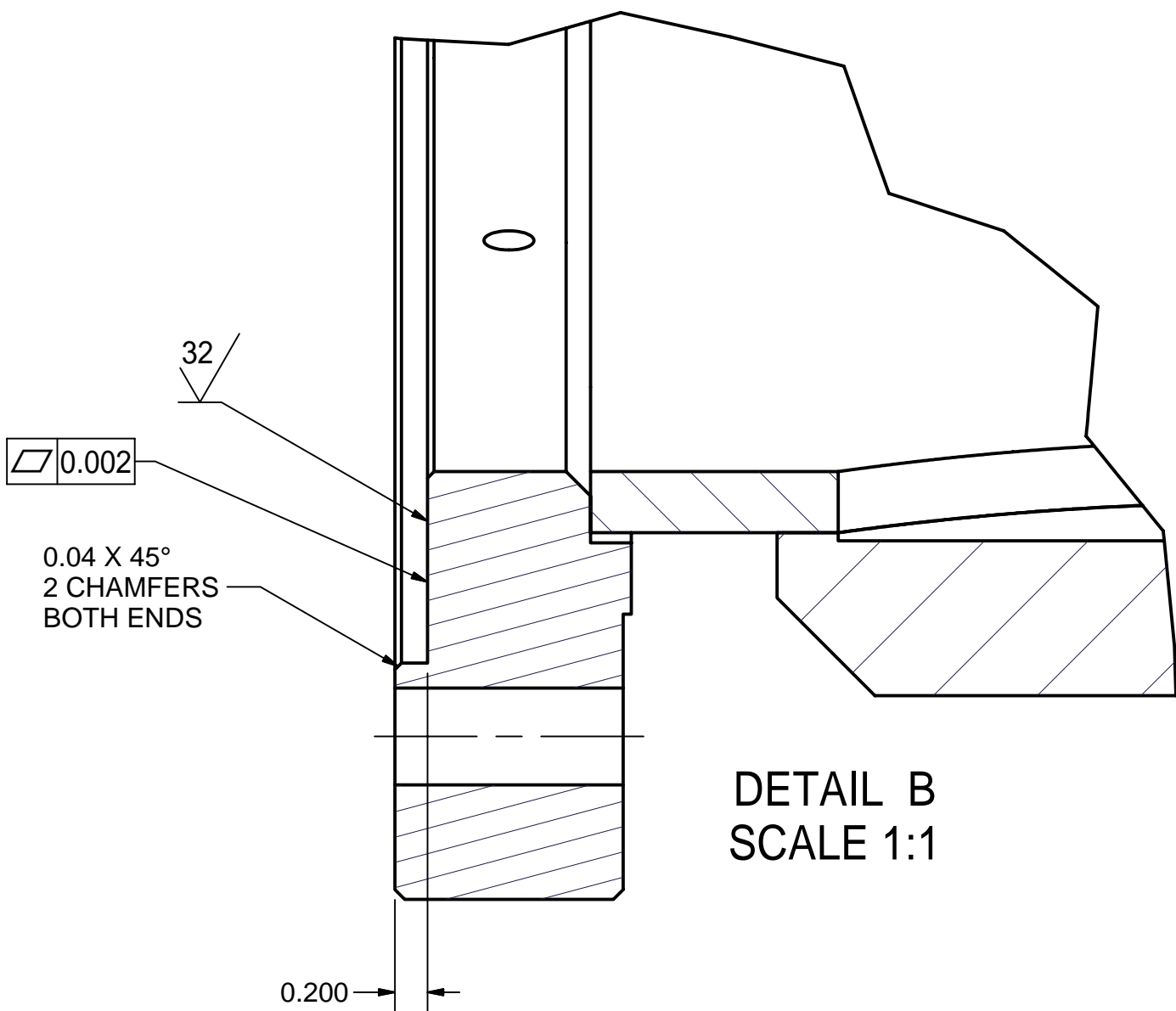
REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A		ADDED DATUMS C, J. SURFACE TEXTURES CHANGED TO 63. ADDED MANY FEATURE CONTROL FRAMES. TMK	7/12/07	EPC
B		NEW HOLES ON VESSEL FOOT ARE SHOWN ON FRONT VIEW.	10/04/07	VM



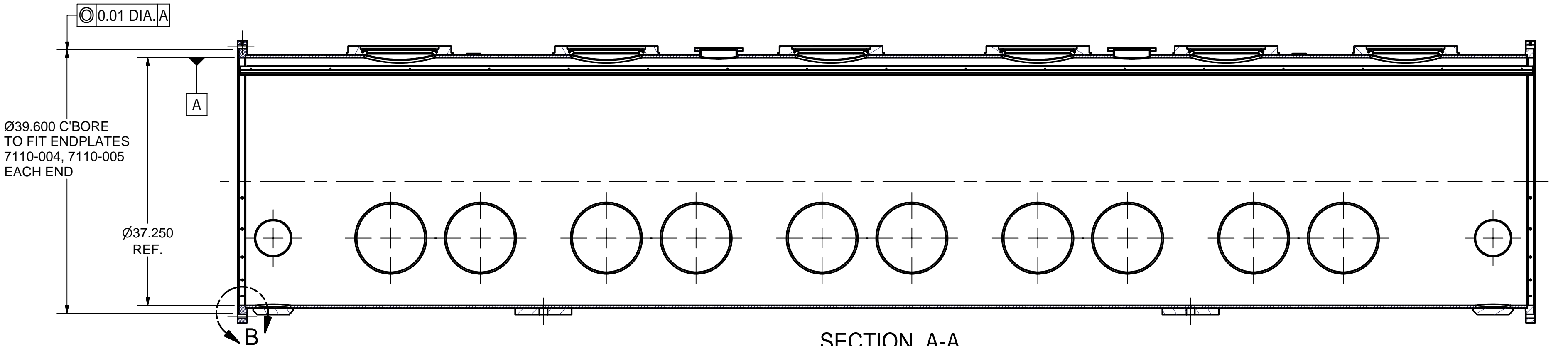
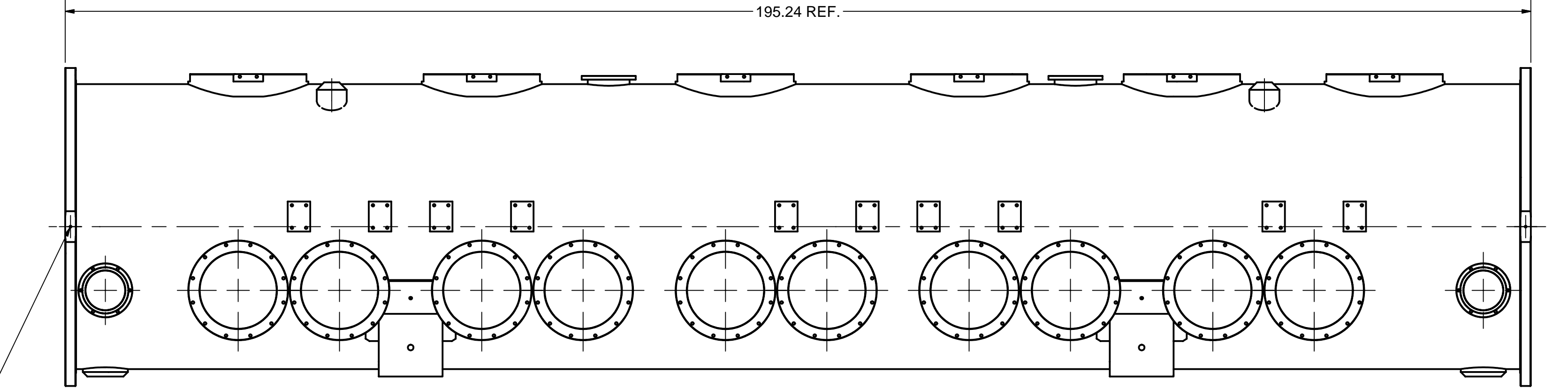
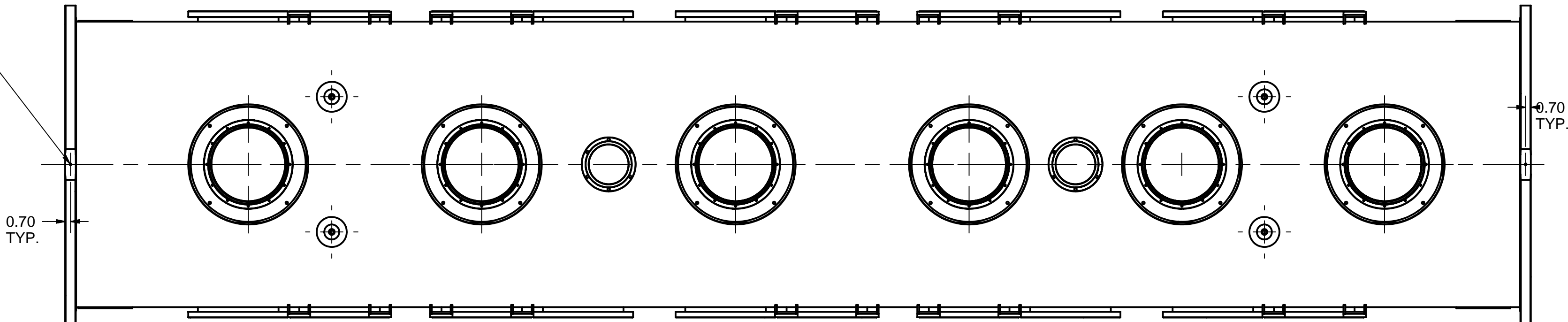
SCALE 1 : 20



'FLAT' IS MACHINED
3 PLACES ON EACH
VAC VESSEL FLANGE
6 PLACES TOTAL



DETAIL B
SCALE 1:1



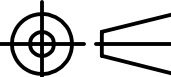


SECTION A-A

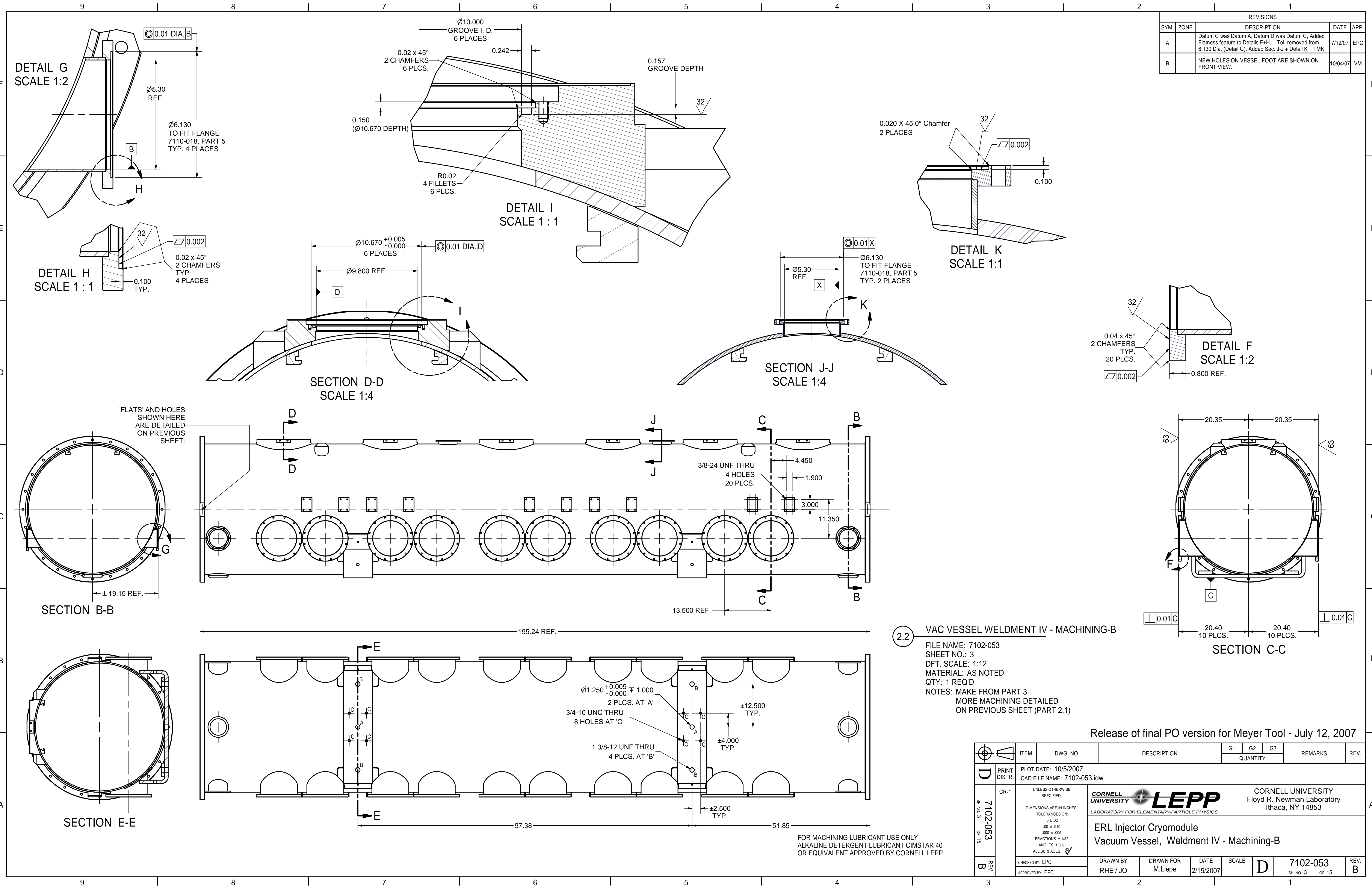
2.1 VAC VESSEL WELDMENT IV - MACHINING-A

FILE NAME: 7102-053
SHEET NO.: 2
DFT. SCALE: 1:12
MATERIAL: AS NOTED
QTY: 1 REQ'D
NOTES: MAKE FROM PART 2.2
MORE MACHINING DETAILED
ON NEXT SHEET

FOR MACHINING LUBRICANT USE ONLY
ALKALINE DETERGENT LUBRICANT CIMSTAR 40
OR EQUIVALENT APPROVED BY CORNELL LEPP

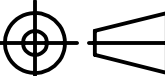




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	ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS	REV.
							QUANTITY			
D	PRINT DISTR.	PLOT DATE: 10/5/2007 CAD FILE NAME: 7102-053.idw								
SH. NO. 2 OF 15	7102-053	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 	CORNELL UNIVERSITY  FLOYD R. NEWMAN LABORATORY Ithaca, NY 14853 ERL Injector Cryomodule Vacuum Vessel, Weldment IV - Machining - A						
REV.	B	CHECKED BY: EPC		DRAWN BY	DRAWN FOR	DATE	SCALE	D	7102-053	REV. B
		APPROVED BY: EPC		RHE / JO	M.Liepe	2/15/2007				
SH. NO. 2 OF 15										

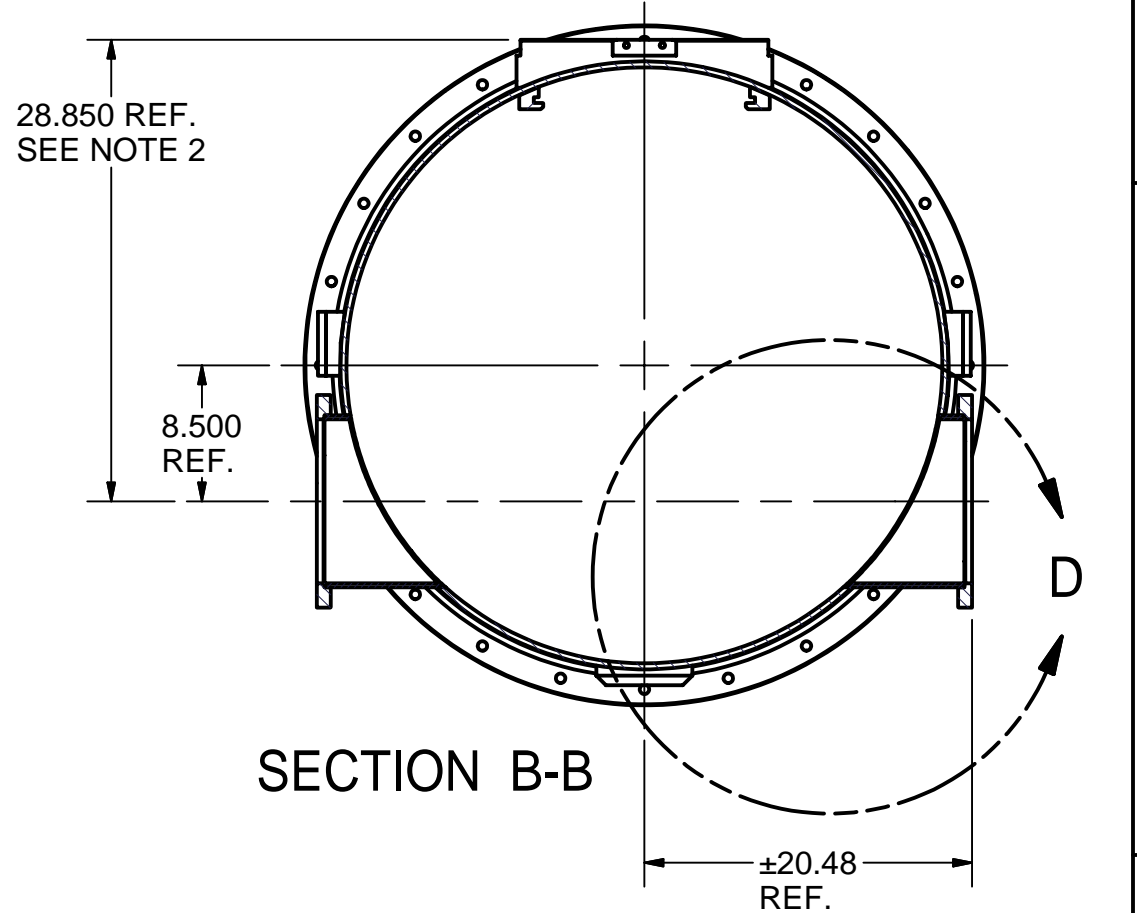
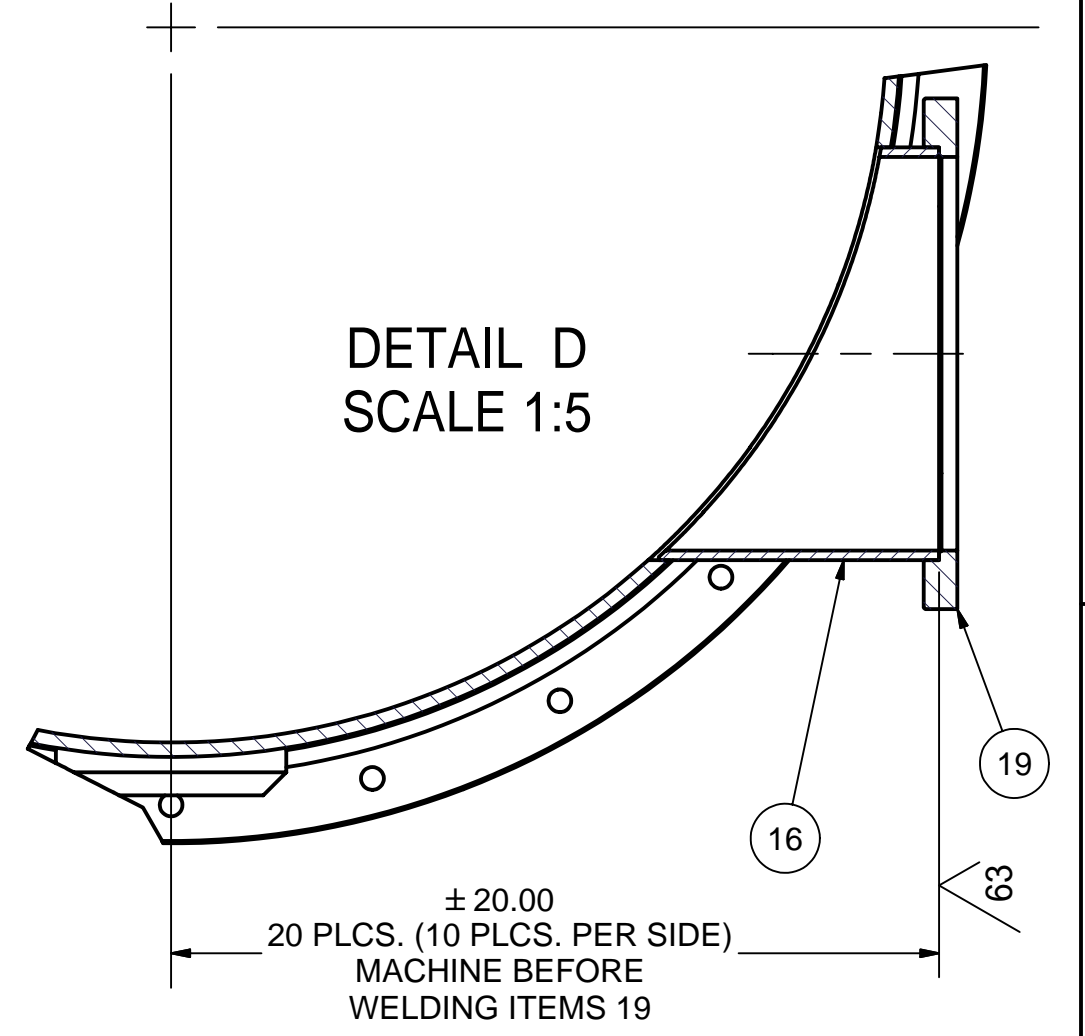
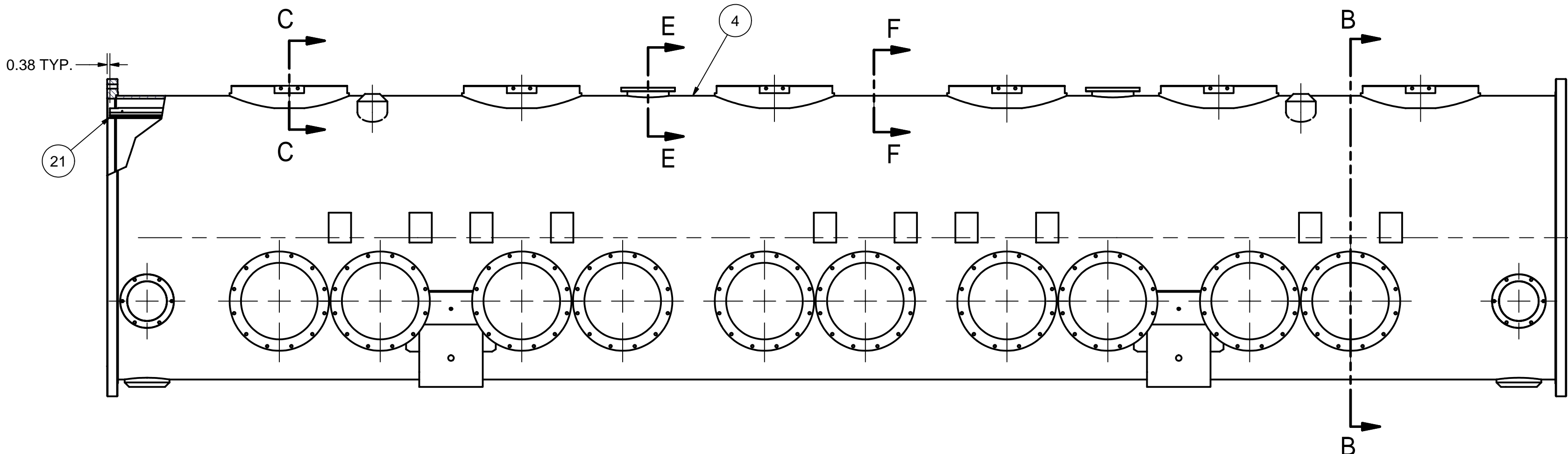
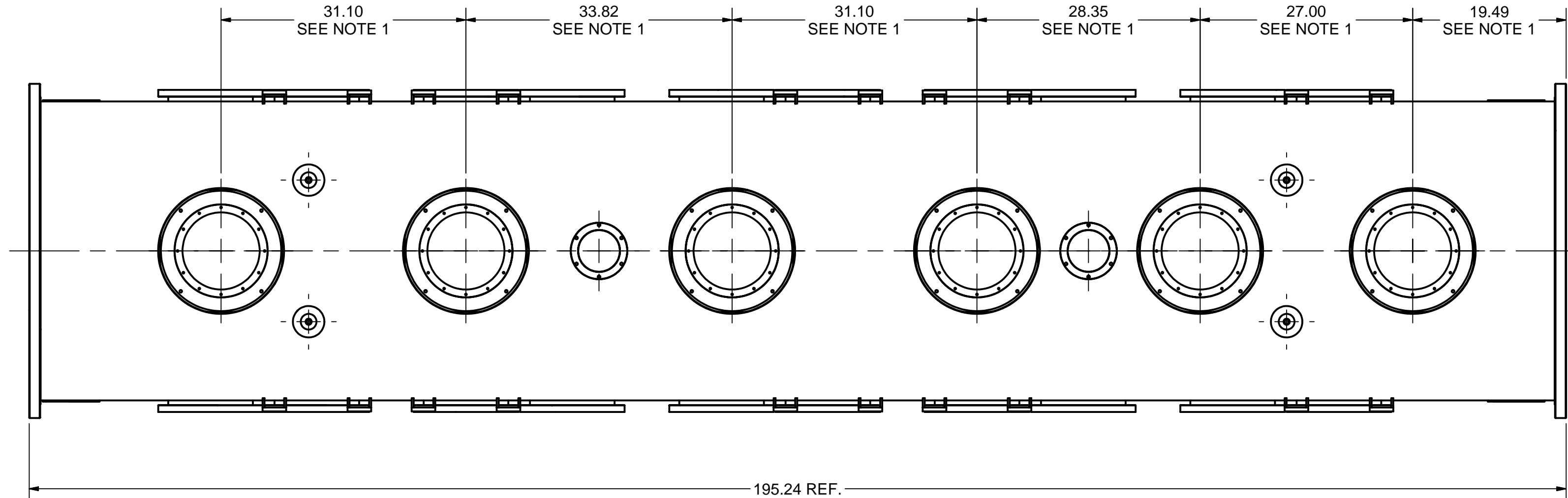
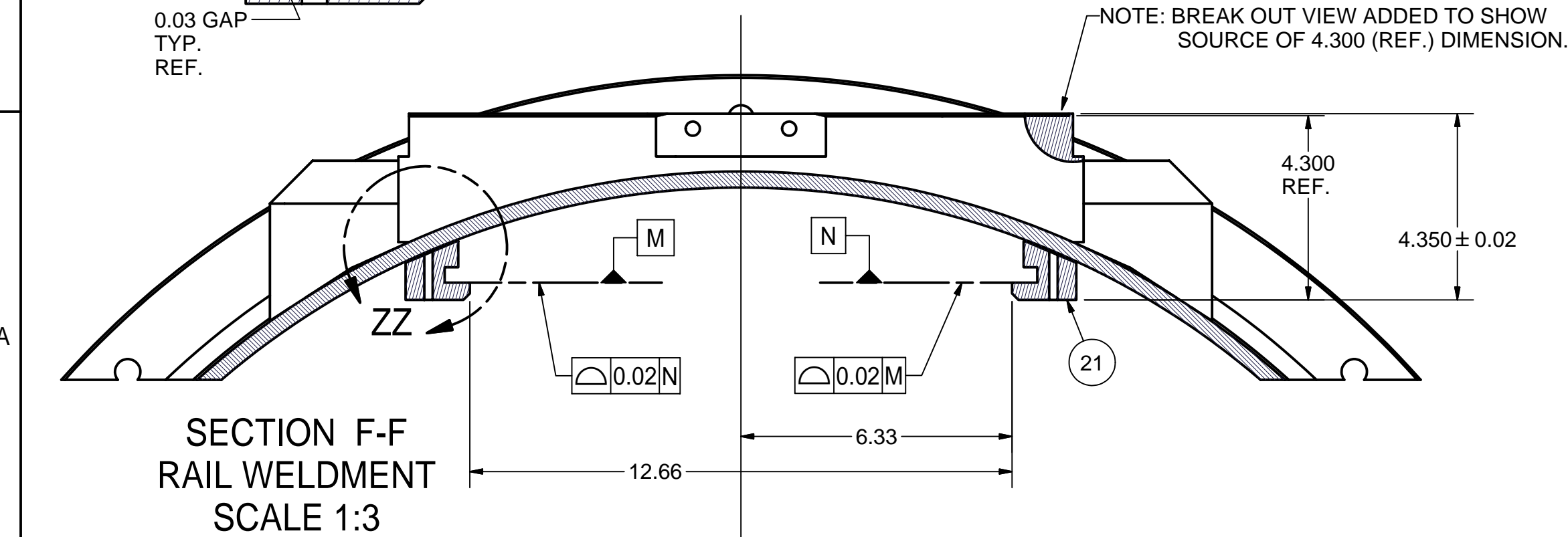
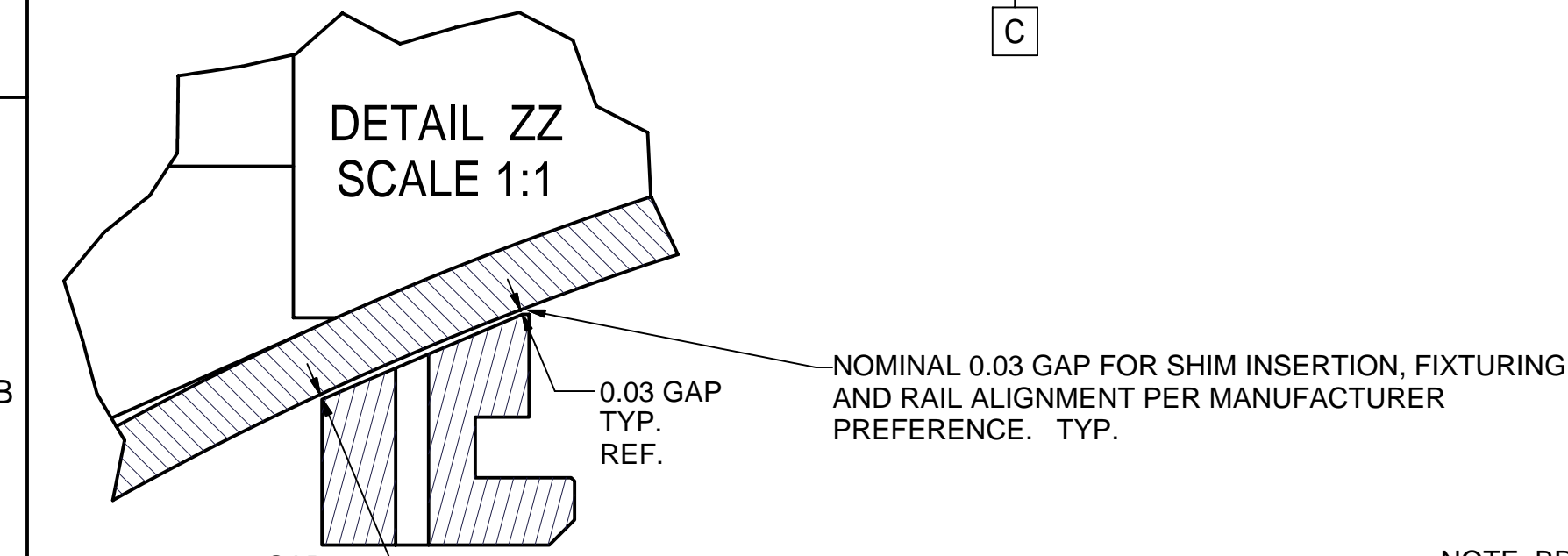
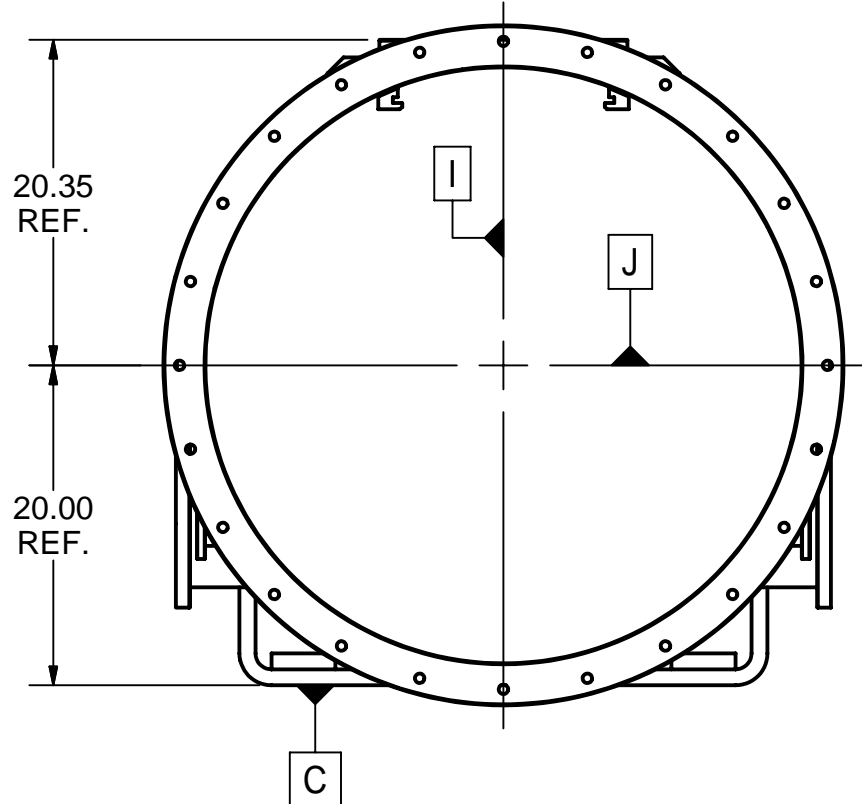
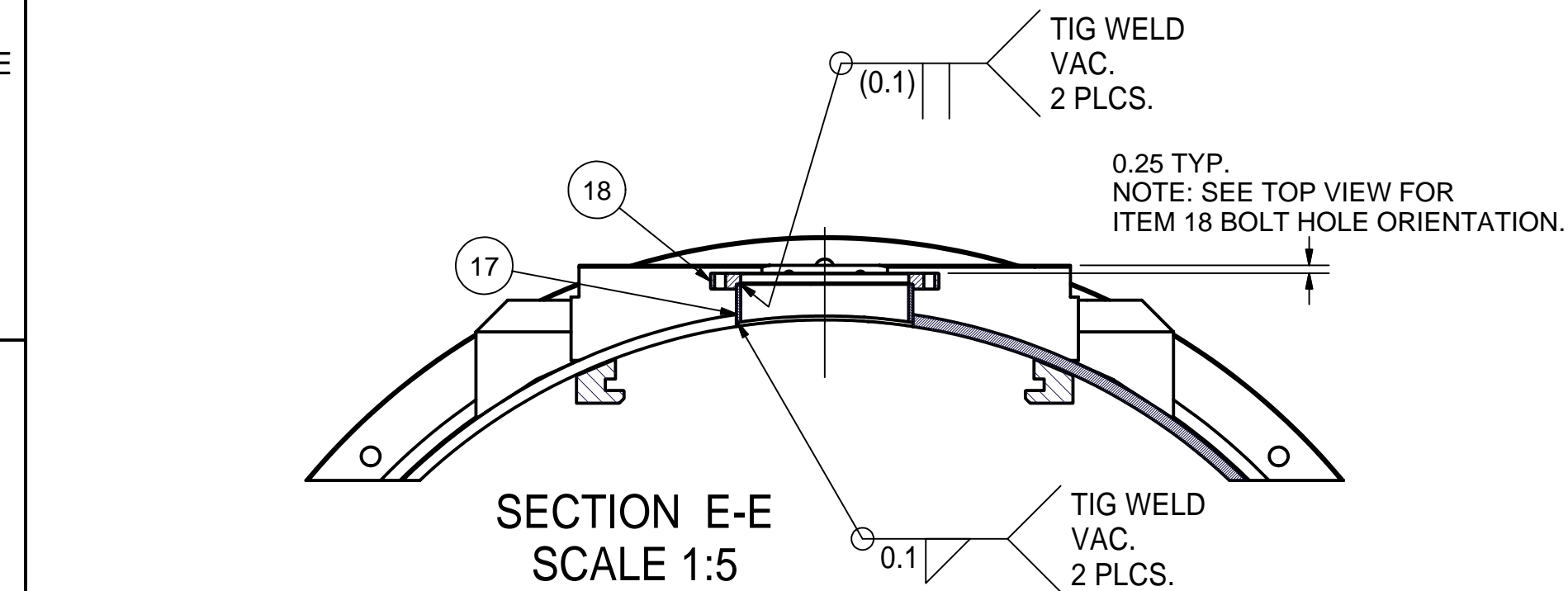
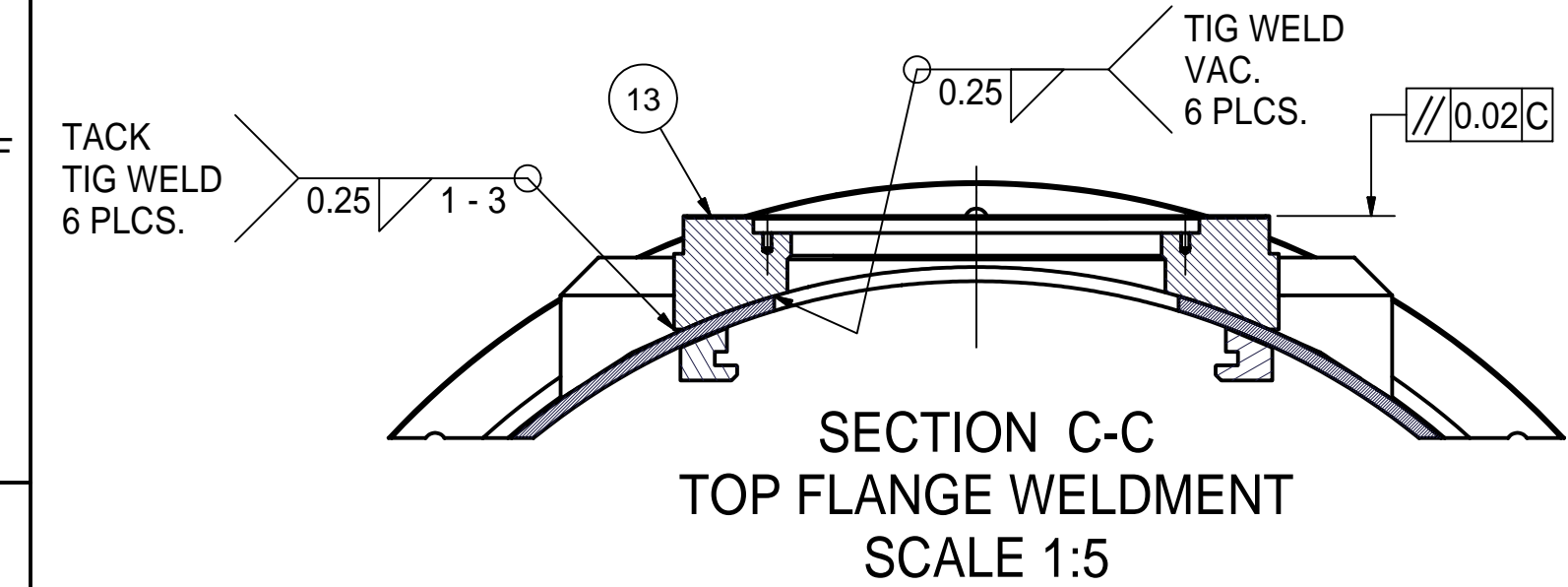


REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A		Datum C was Datum A, Datum D was Datum C, Added Flatness feature to Details F+H. Tol. removed from 6.130 Dia. (Detail G), Added Sec. J-J + Detail K	7/12/07	EPC
B		NEW HOLES ON VESSEL FOOT ARE SHOWN ON FRONT VIEW.	10/04/07	VM

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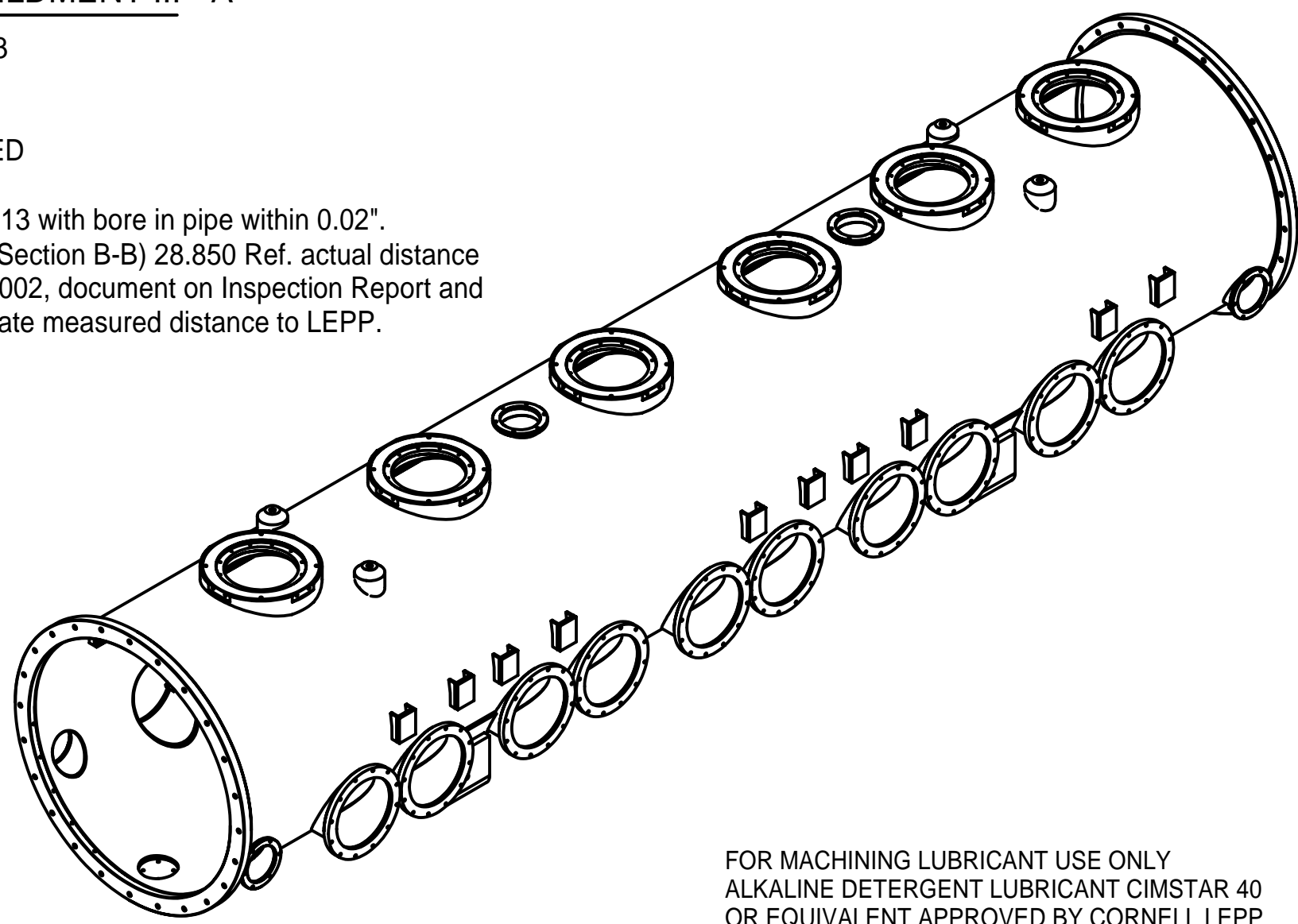
	ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS	REV.
				QUANTITY						
	PRINT DISTR.	PLOT DATE: 10/5/2007 CAD FILE NAME: 7102-053.idw								
7102-053 SH. NO. 3 OF 15	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .01 ± .02 .02 ± .010 .030 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 		<div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div> <div>ERL Injector Cryomodule Vacuum Vessel, Weldment IV - Machining-B</div>						
	CHECKED BY: EPC APPROVED BY: EPC		DRAWN BY RHE / JO	DRAWN FOR M.Liepe	DATE 2/15/2007	SCALE		7102-053 SH. NO. 3 OF 15		REV. B

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A		CHANGED SECTION C-C. ADDED SECTION F-F AND NOTE 2. TMK	7/12/07	EPC
B		NEW HOLES ON VESSEL FOOT ARE SHOWN ON FRONT VIEW.	10/04/07	VM



3 VAC VESSEL WELDMENT III - A

FILE NAME: 7102-053
SHEET NO.: 4
DFT. SCALE: 1:12
MATERIAL: AS NOTED
QTY: 1 REQ'D
NOTES: 1. Align item 13 with bore in pipe within 0.02".
2. Measure (Section B-B) 28.850 Ref. actual distance to + or - 0.002, document on Inspection Report and communicate measured distance to LEPP.



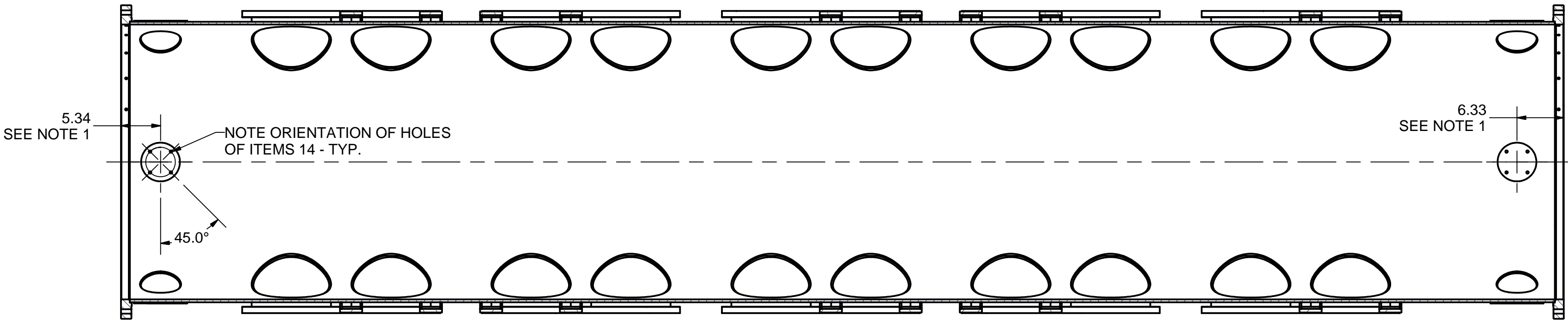
FOR MACHINING LUBRICANT USE ONLY
ALKALINE DETERGENT LUBRICANT CIMSTAR 40
OR EQUIVALENT APPROVED BY CORNELL LEPP

Release of final PO version for Meyer Tool - July 12, 2007

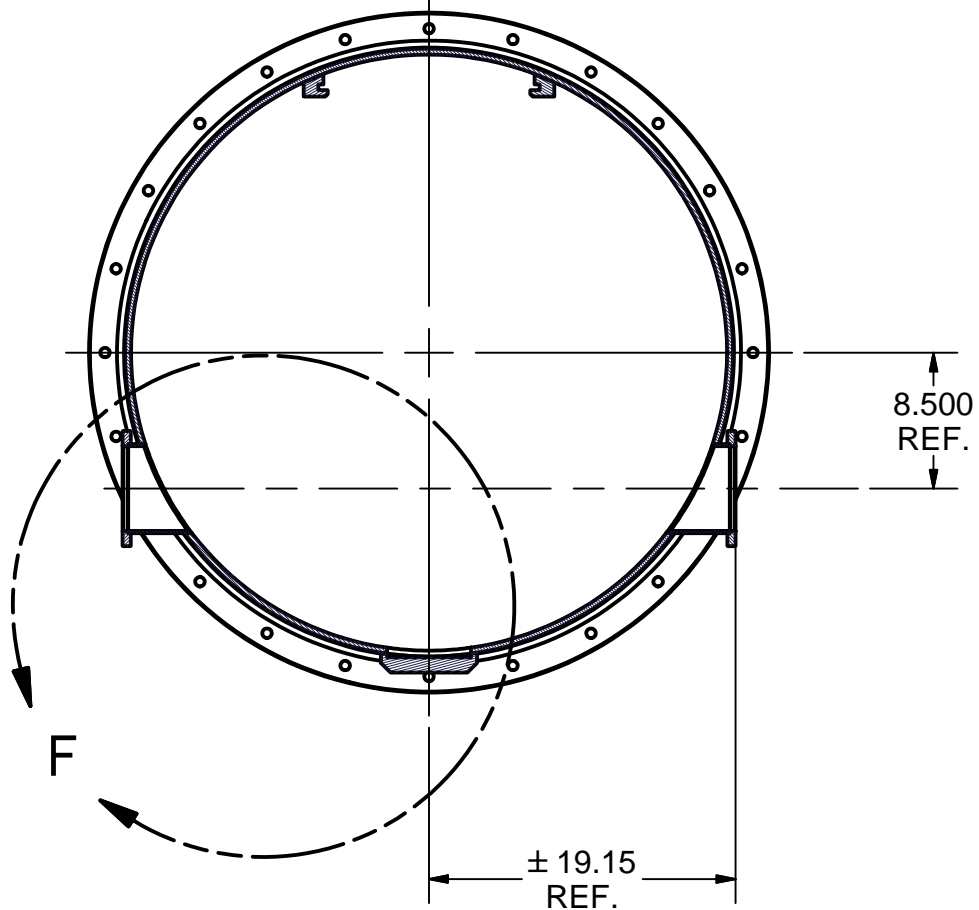
26	7102-053 (SH. 12)	WAVEGUIDE SUPPORT BRACKET, SUB-ASM	20					
21	7102-053 (SH.13)	VACUUM VESSEL RAIL SUPPORT	2					
19	7102-053 (SH. 12)	INPUT COUPLER FLANGE	20					
18	7102-053 (SH. 12)	GATE VALVE FLANGE	6					
17	7102-053 (SH. 14)	TOP SMALL TUBE	2					
16	7102-053 (SH. 11)	INPUT COUPLER TUBE	20					
15	7102-053 (SH. 11)	GATE VALVE TUBE	4					
14	7102-053 (SH. 10)	GATE VALVE SUPPORT BLANK	2					
13	7102-053 (SH. 10)	VACUUM VESSEL TOP FLANGE	6					
4	7102-053 (SH. 6)	POST WELDMENT I, MACHINING	1					
3	7102 053(SH.4+5)	VACUUM VESSEL, WELDMENT III	X 1					

ITEM	DWG. NO.	DESCRIPTION	QUANTITY	REMARKS	REV.
G1	G2	G3			
D	PRINT DISTR.	PLOT DATE: 10/5/2007 CAD FILE NAME: 7102-053.idw			
7102-053	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES			
B	REV.	CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853			
		ERL Injector Cryomodule Vacuum Vessel, Weldment III - A			
		CHECKED BY: EPC APPROVED BY: EPC	DRAWN BY: RHE / JO DRAWN FOR: M.Liepe DATE: 2/15/2007 SCALE: D	7102-053 SH. NO. 4 OF 15	REV. B

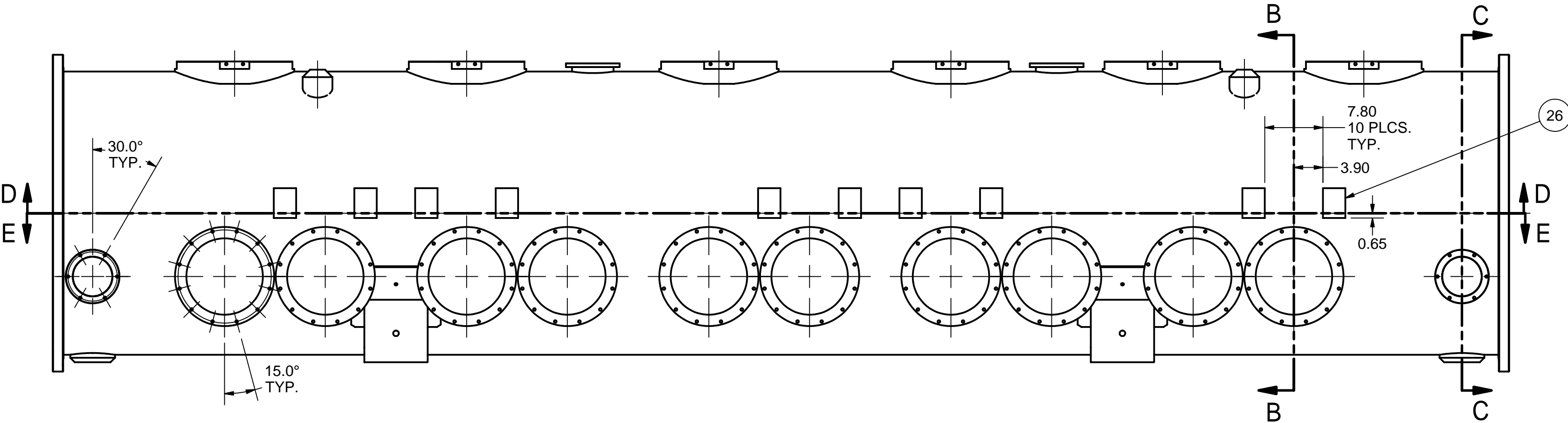
REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A		NEW HOLES ON VESSEL FOOT ARE SHOWN ON FRONT VIEW.	10/04/07	VM



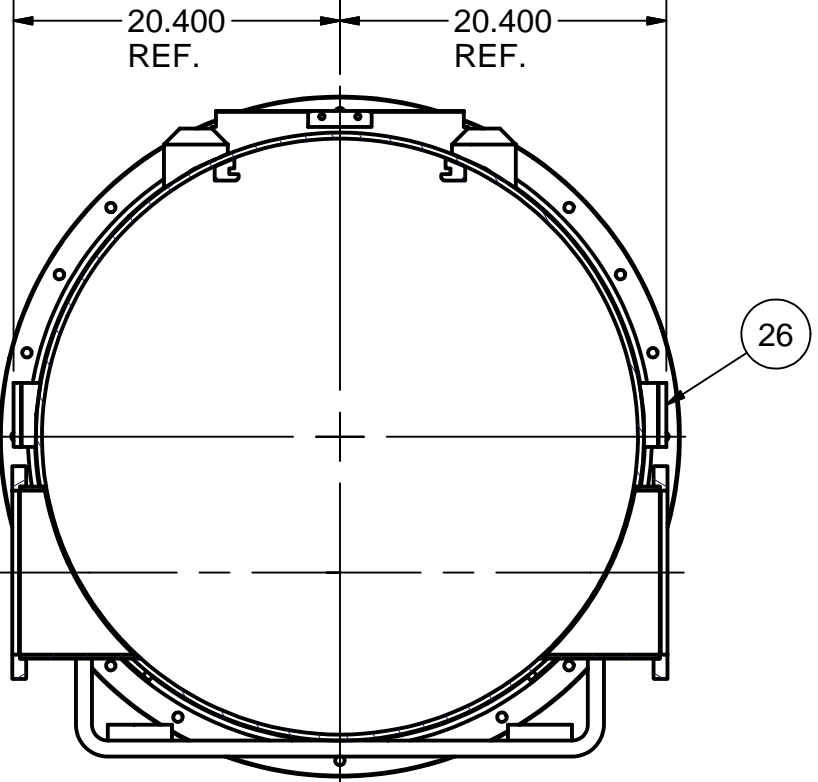
SECTION E-E



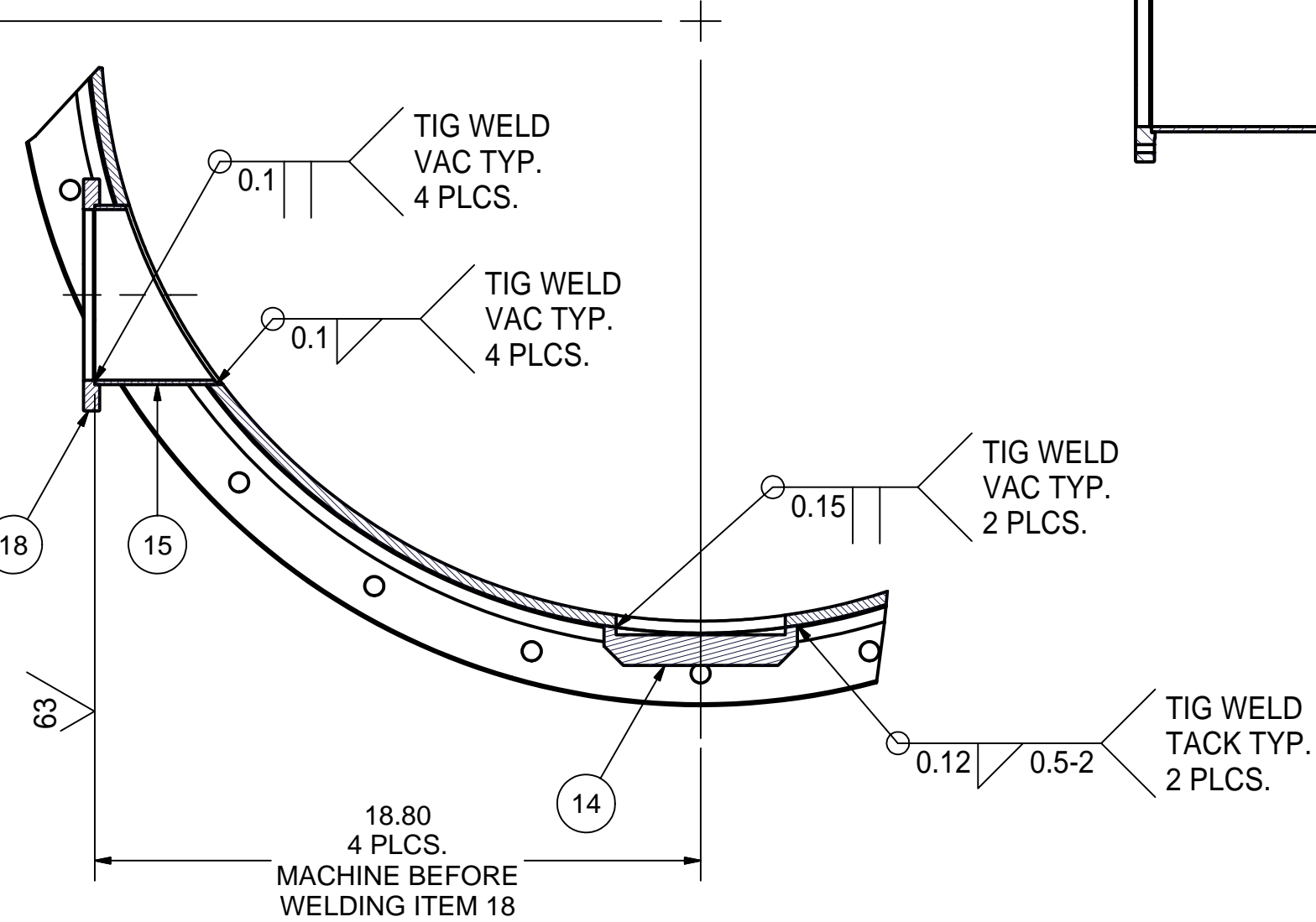
SECTION C-C



SECTION D-D

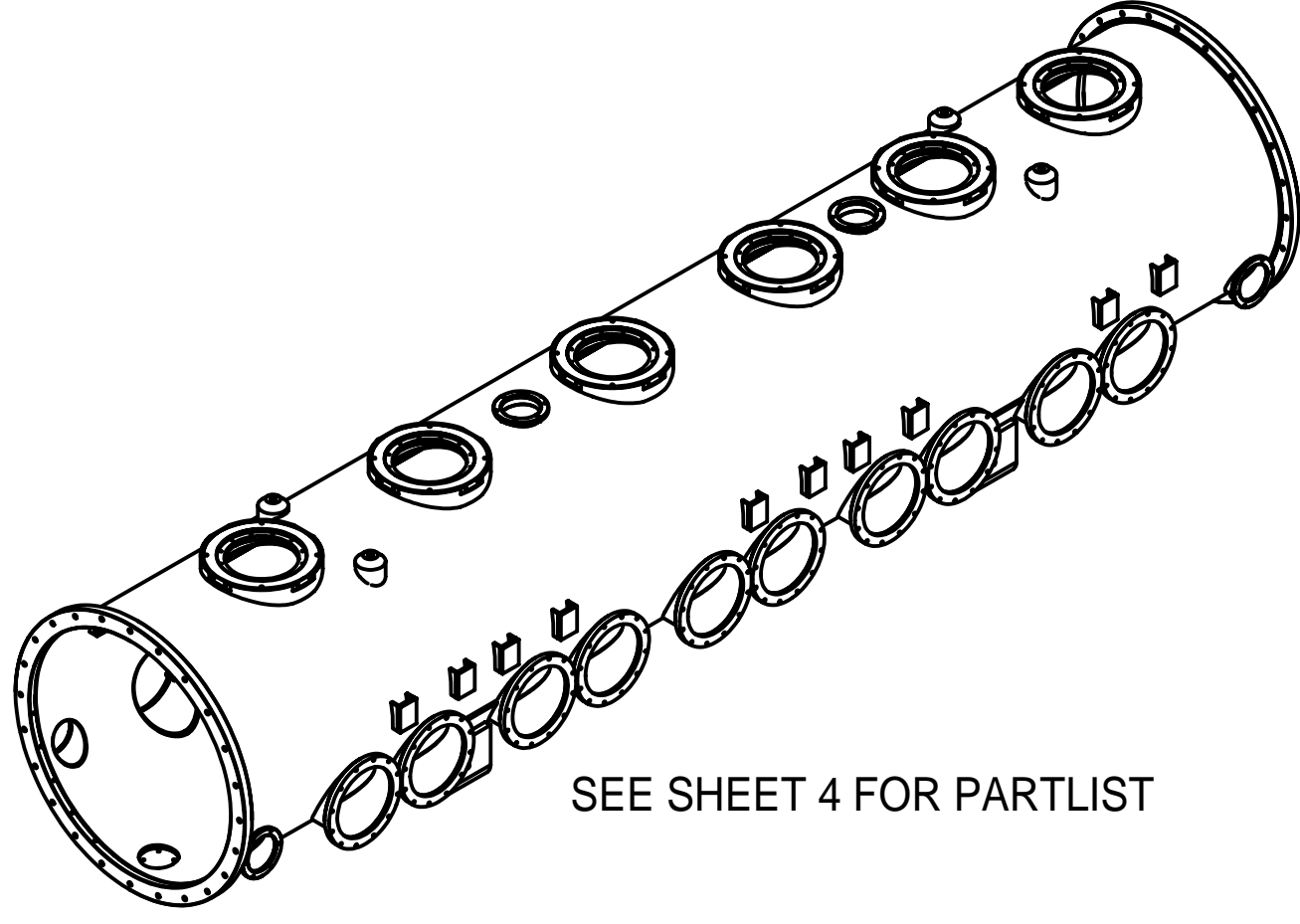


SECTION B-B



DETAIL F
SCALE 1:5

SEE SECTION E-E FOR HOLE ORIENTATION OF ITEMS 14

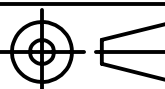




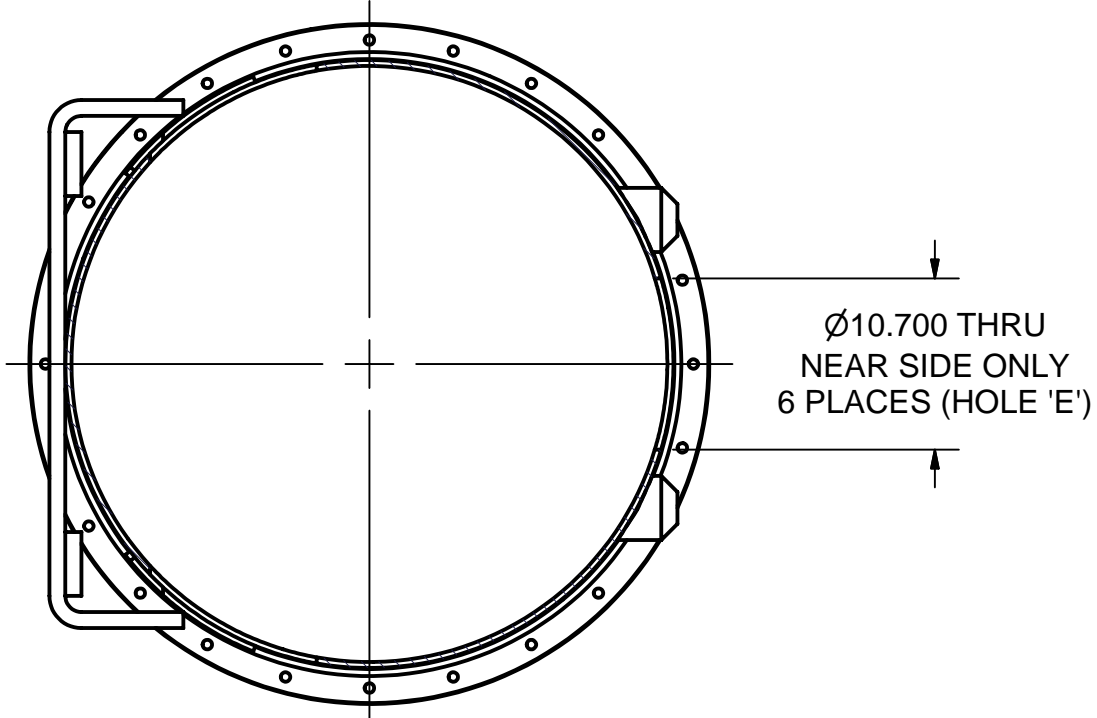
SEE SHEET 4 FOR PARTLIST

3 VAC VESSEL WELDMENT III - B
FILE NAME: 7102-053
SHEET NO.: 5
DFT. SCALE: 1:12
MATERIAL: AS NOTED
QTY: 1 REQ'D
NOTES: 1. ALIGN ITEM 14 WITH BORE IN PIPE WITHIN 0.02".

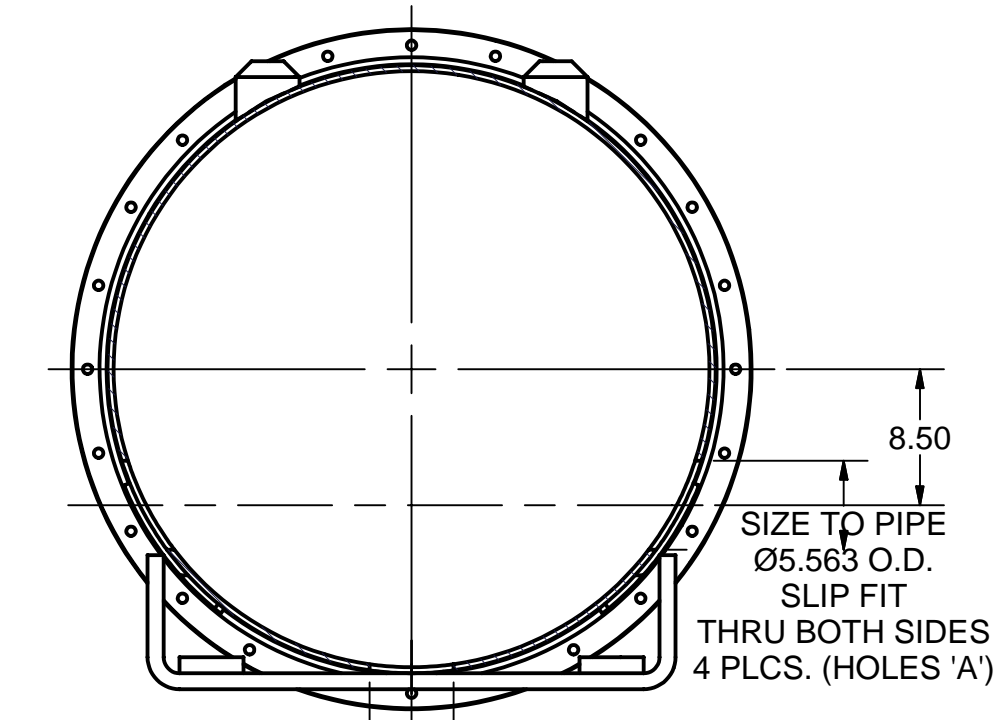
FOR MACHINING LUBRICANT USE ONLY
ALKALINE DETERGENT LUBRICANT CIMSTAR 40
OR EQUIVALENT APPROVED BY CORNELL LEPP

Release of final PO version for Meyer Tool - July 12, 2007

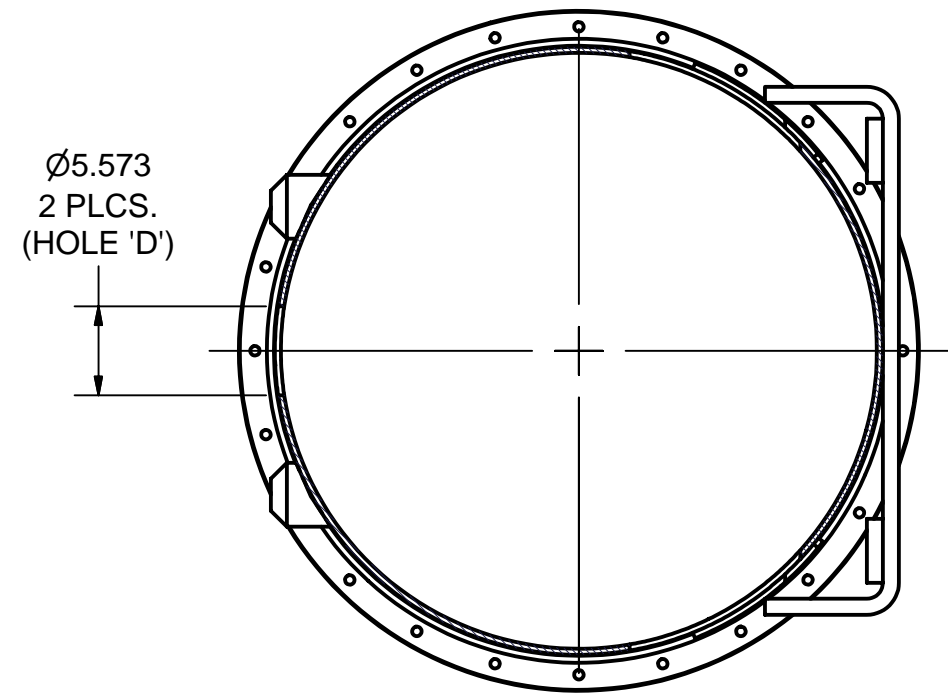
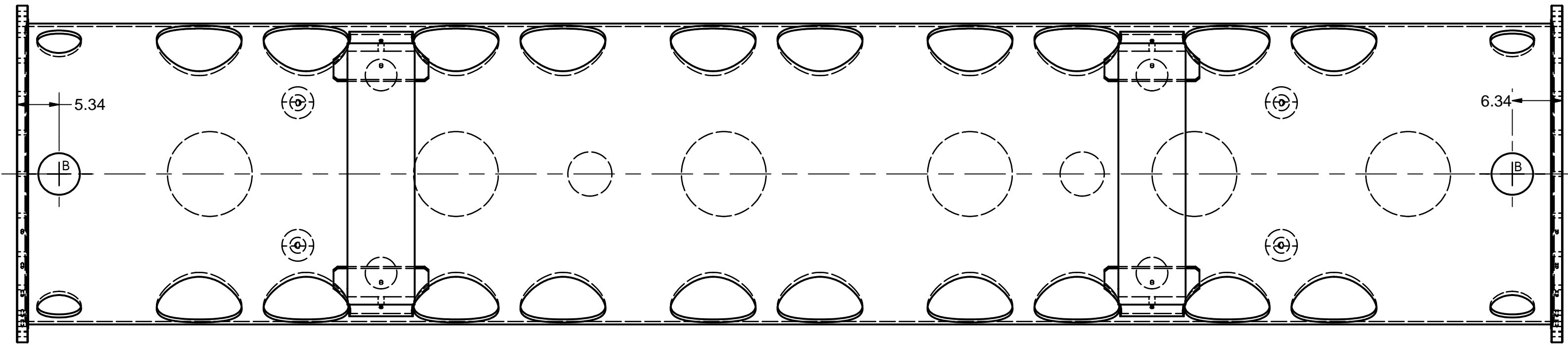
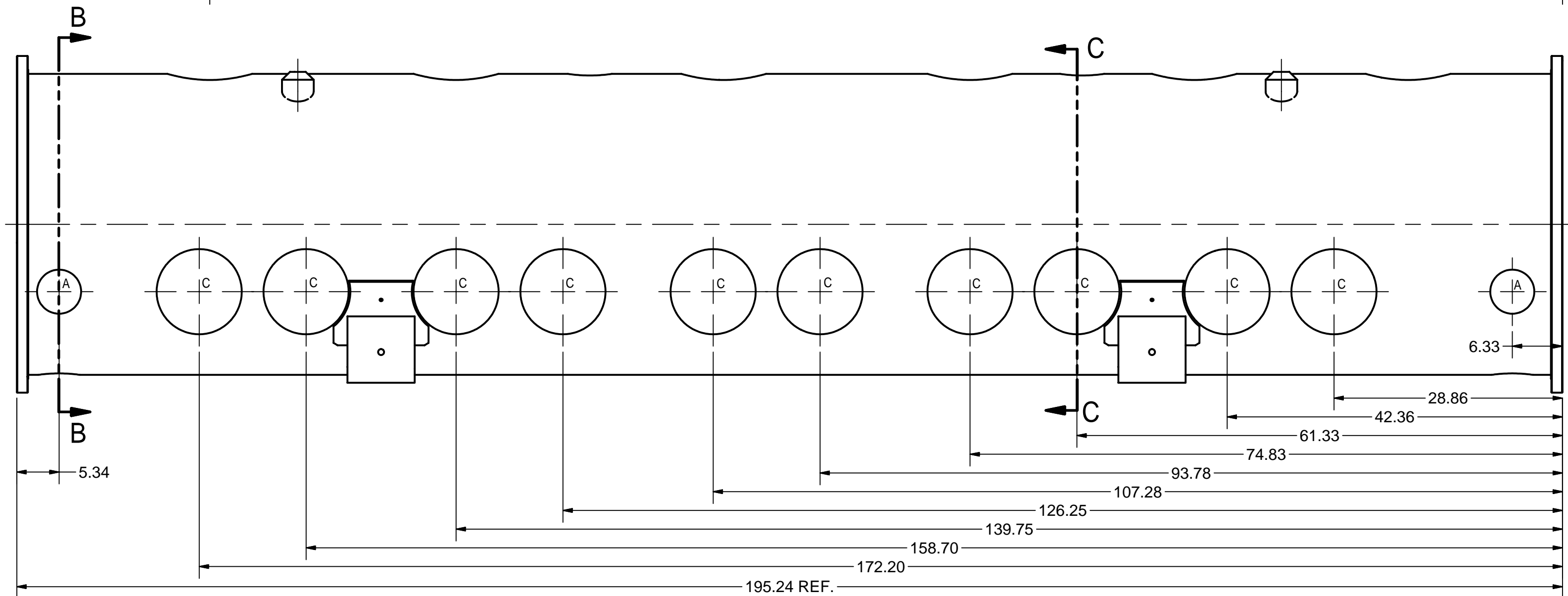
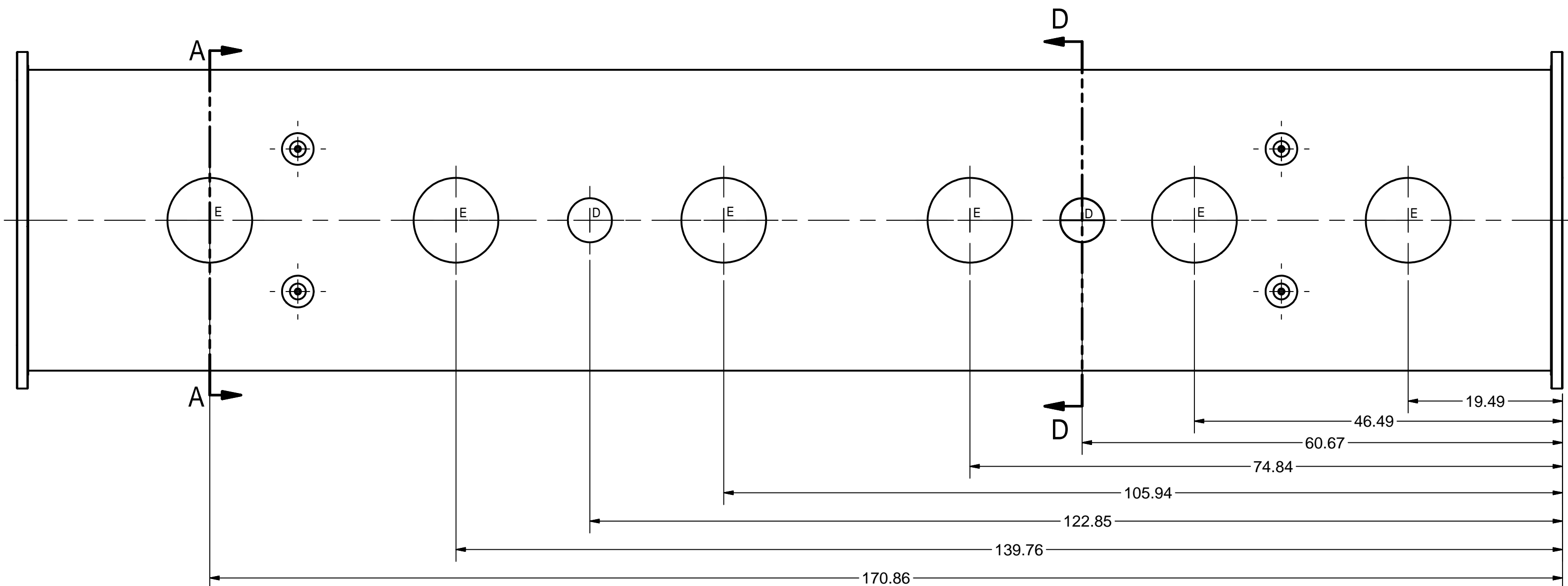
		ITEM	DWG. NO.		DESCRIPTION			G1	G2	G3	REMARKS	REV.
								QUANTITY				
D	PRINT DISTR.	PLOT DATE: 10/5/2007 CAD FILE NAME: 7102-053.idw										
	7102-053 SH. NO. 5 OF 15	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 		<div><div> LEPP</div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div> <div>ERL Injector Cryomodule Vacuum Vessel, Weldment III - B</div>							
CHECKED BY: EPC			DRAWN BY	DRAWN FOR	DATE	SCALE	D	7102-053	REV. A			
APPROVED BY: EPC			RHE / JO	M.Liepe	2/15/2007					SH. NO. 5 OF 15		



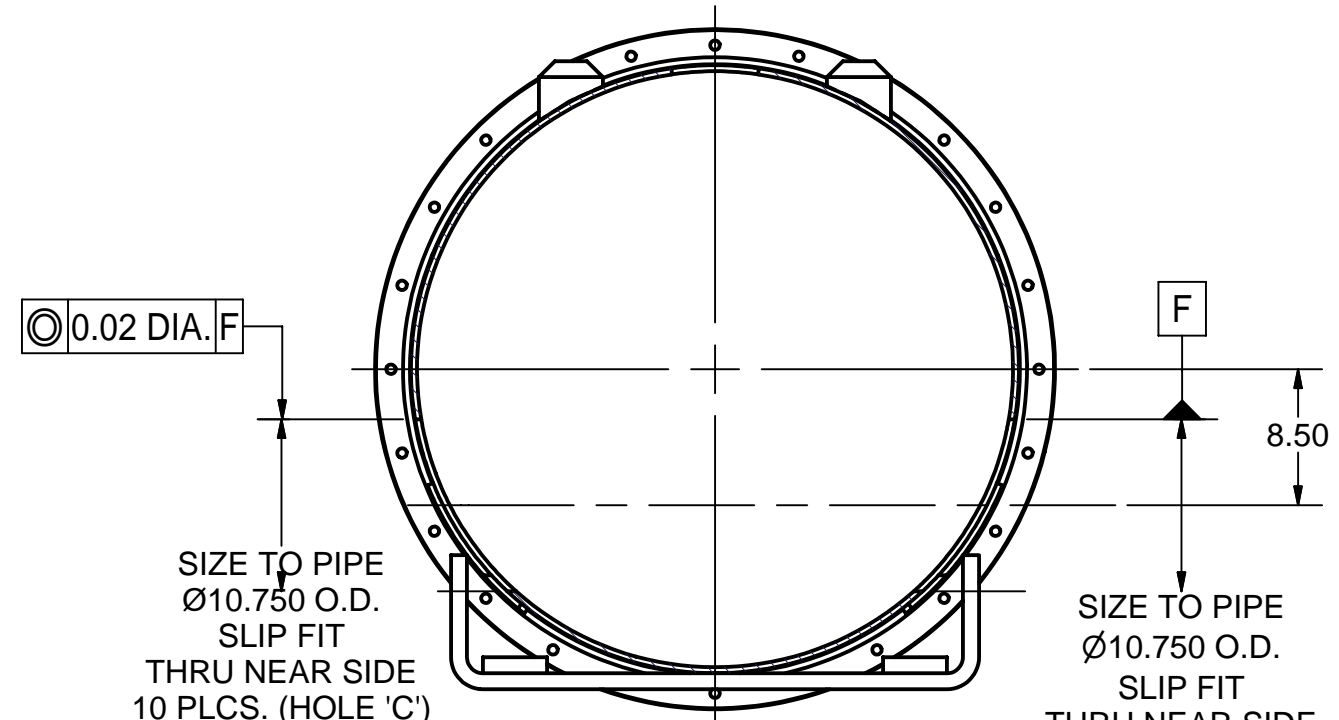
SECTION A-A



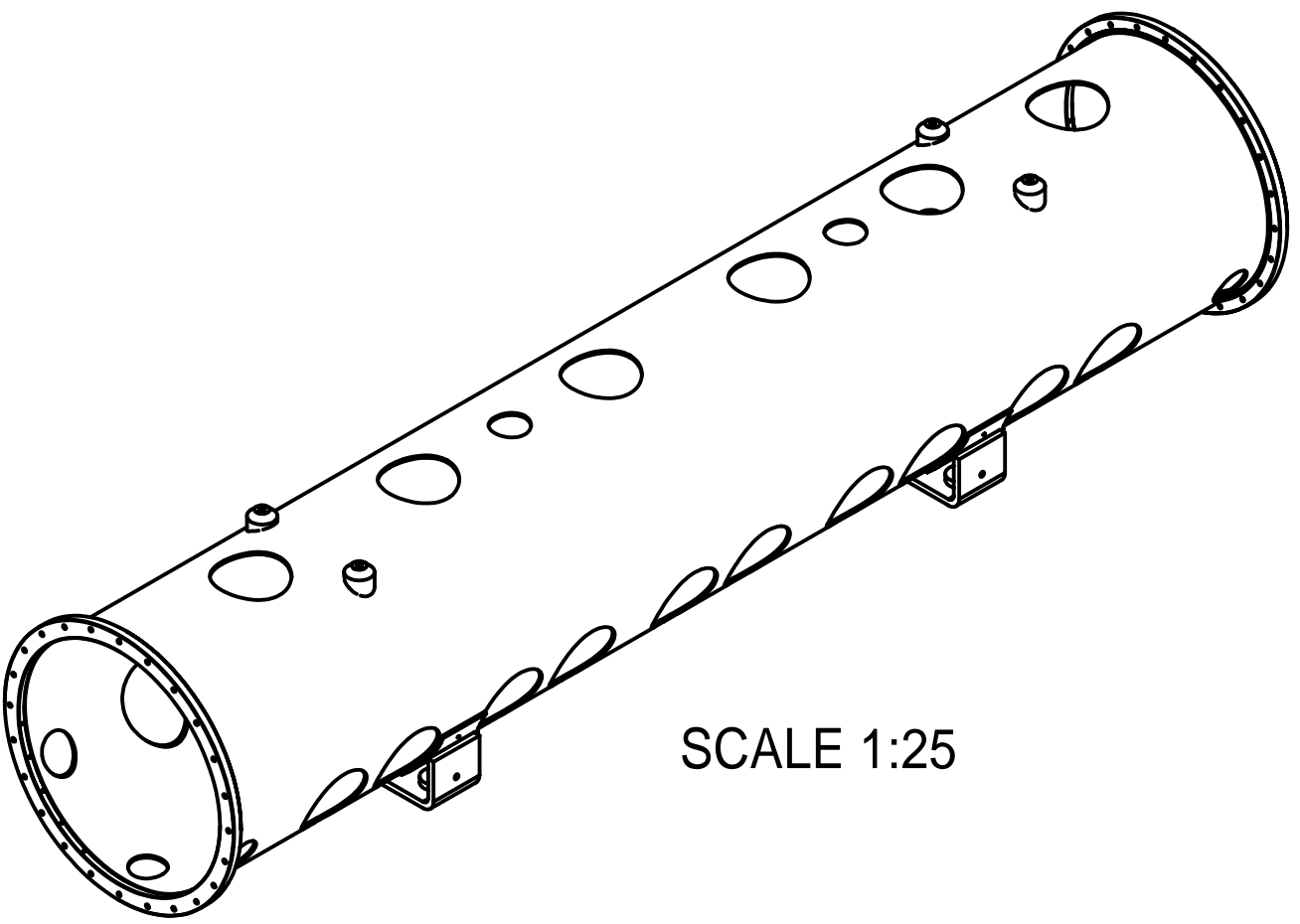
SECTION B-B



SECTION D-D



SECTION C-C



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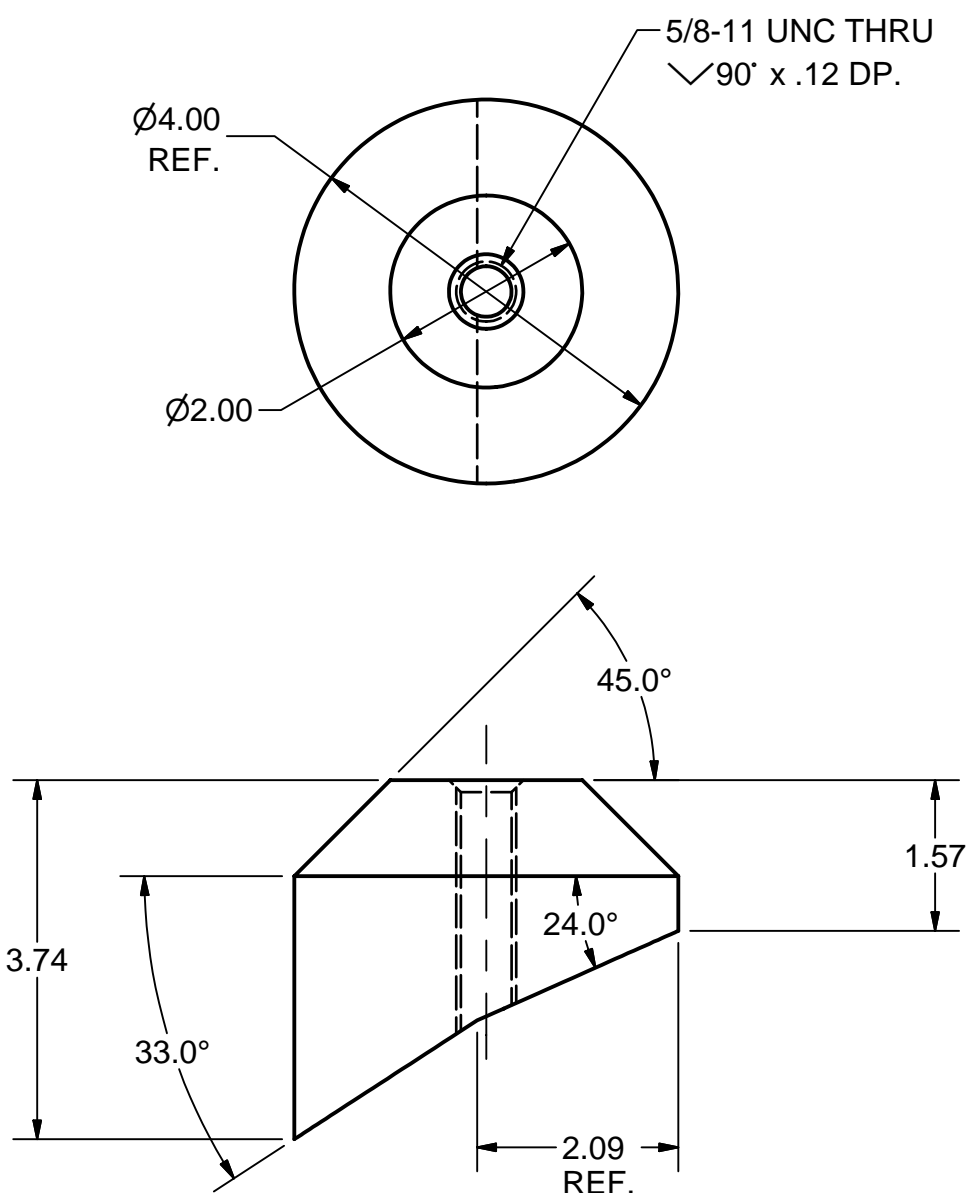
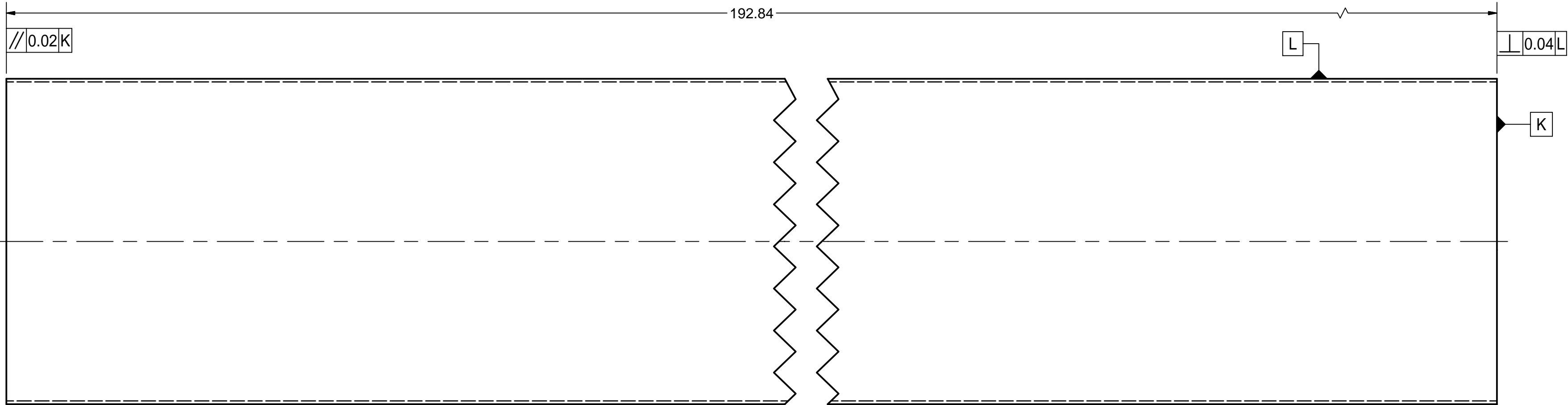
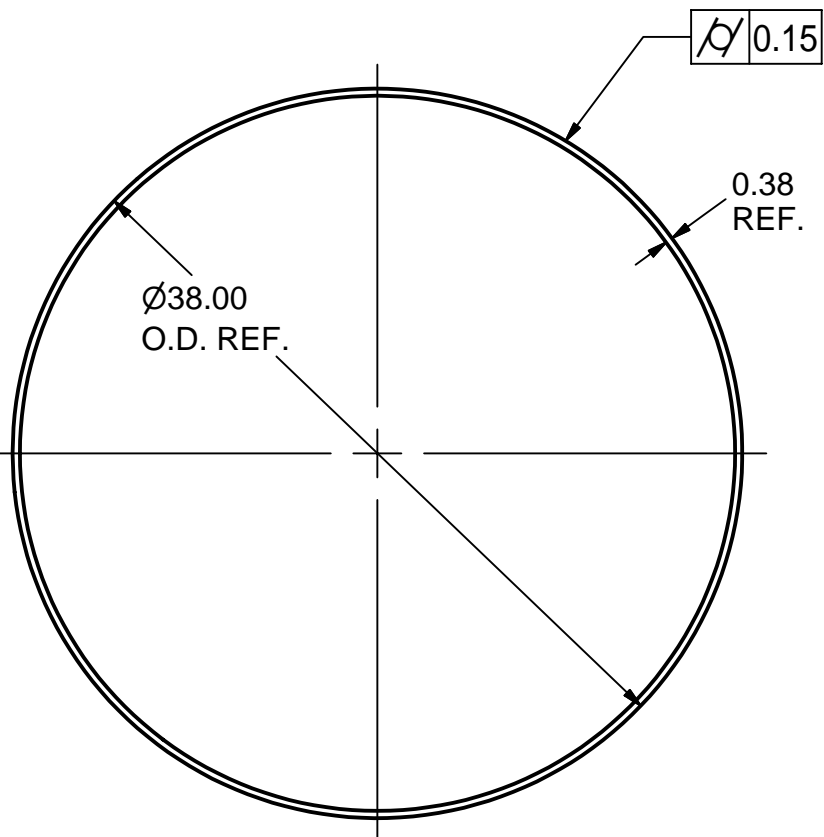
4 POST WELDMENT I, MACHINING
FILE NAME: 7102-053
SHEET NO.: 6
DFT. SCALE: 1:12
MATERIAL: AS NOTED
QTY: 1 PER SUB-ASM
NOTES: 1. MAKE FROM PART 5 (NEXT SHEET).

FOR MACHINING LUBRICANT USE ONLY
ALKALINE DETERGENT LUBRICANT CIMSTAR 40
OR EQUIVALENT APPROVED BY CORNELL LEPP

SYM.	ZONE	REVISIONS		DATE	APP.
		DESCRIPTION			
A		DATUM F WAS DATUM C (See Section C-C). 5.573 DIA. WAS 5.510 DIA. (See Section D-D). TMK		7/12/07	EPC
B		NEW HOLES ON VESSEL FOOT ARE SHOWN ON FRONT AND ISO VIEWS.		10/04/07	VM

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
PRINT DISTR.	7102-053	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES	CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY Ithaca, NY 14853			
CR-1	7102-053	ERL Injector Cryomodule Vacuum Vessel, Post Weldment I Machining	CHECKED BY: EPC	DRAWN BY: RHE / JO	DRAWN FOR: M.Liepe	DATE: 2/15/2007	SCALE: D
REV.	B		APPROVED BY: EPC				

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A		PT.6 DATUM NAMES CHANGED FROM A+B TO L+M. TMK	7/12/07	EPC



6

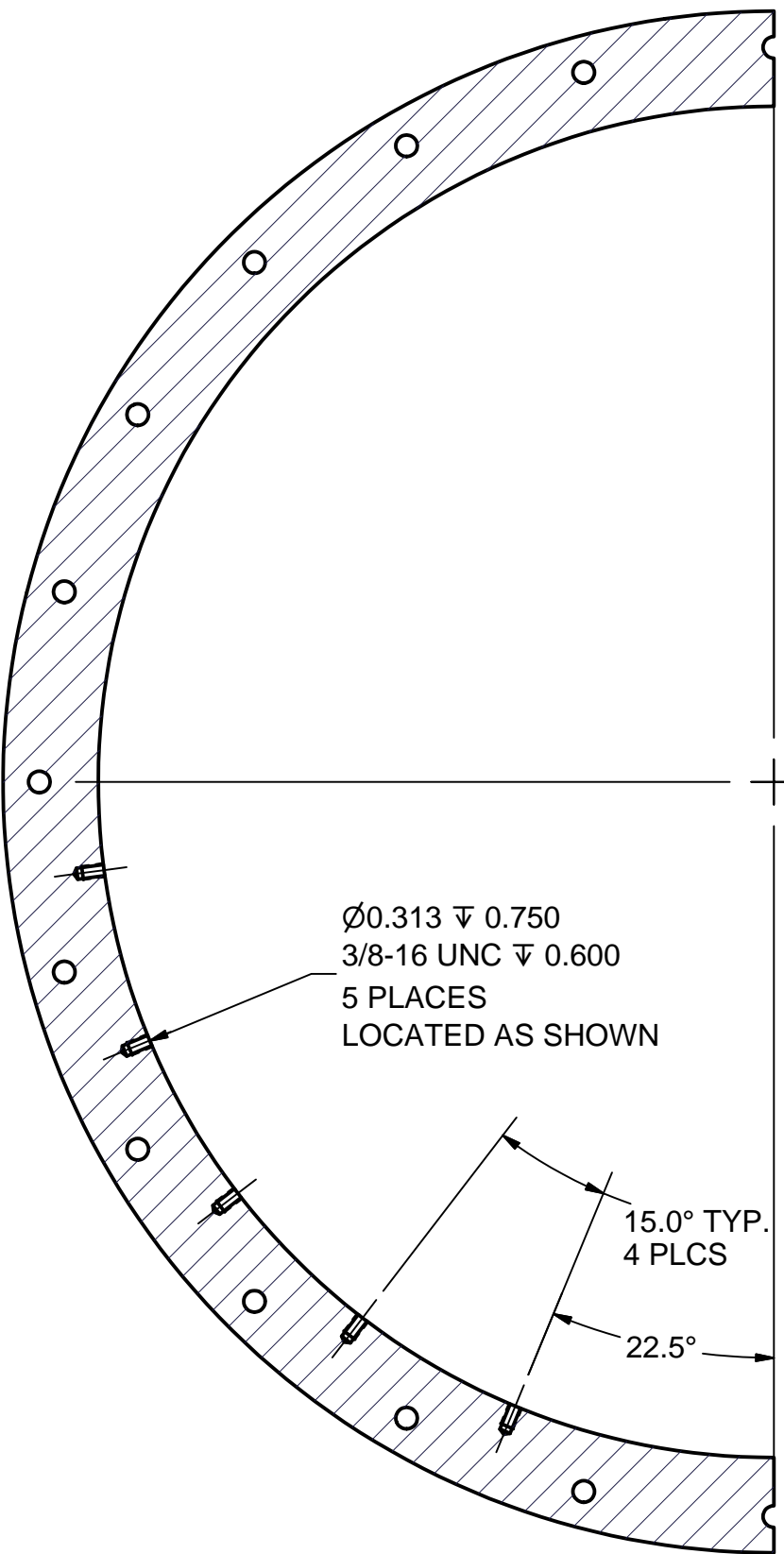
VAC VESSEL CYLINDER

FILE NAME: 7102-053
SHEET NO.: 8
DFT. SCALE: 1:10
MATERIAL: 38.00"O.D. x 0.375" WALL 304L STN STL TUBE
QTY: 1 REQD
NOTES:

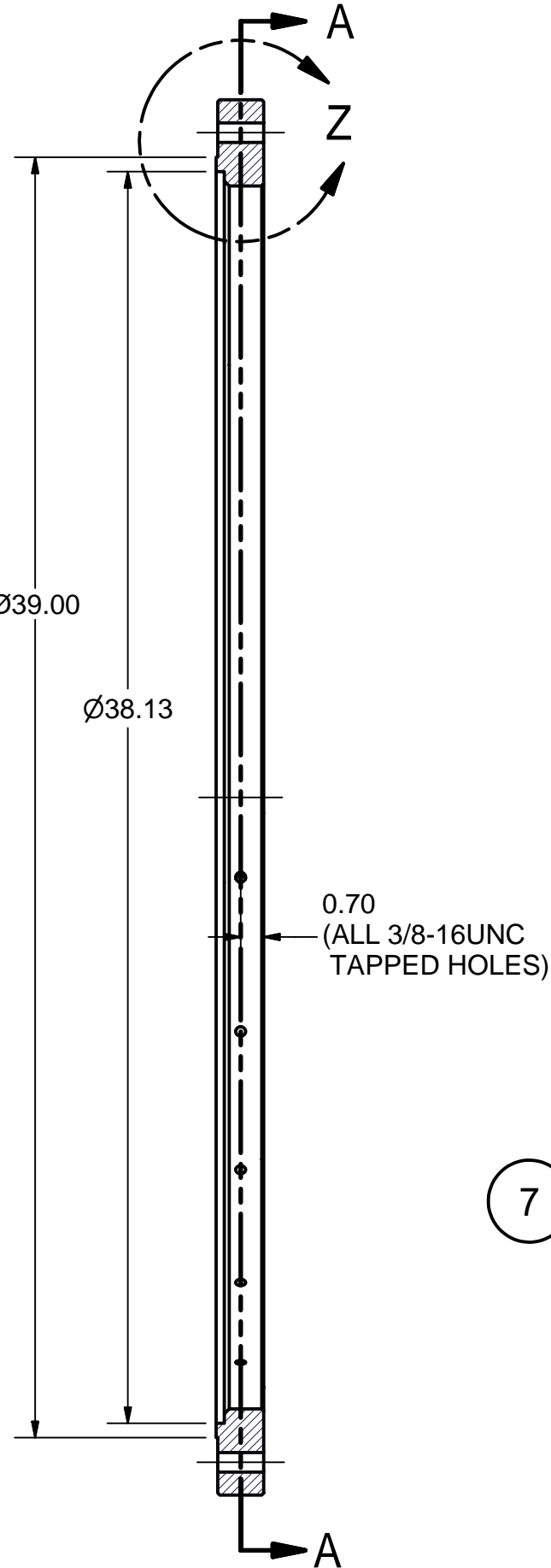
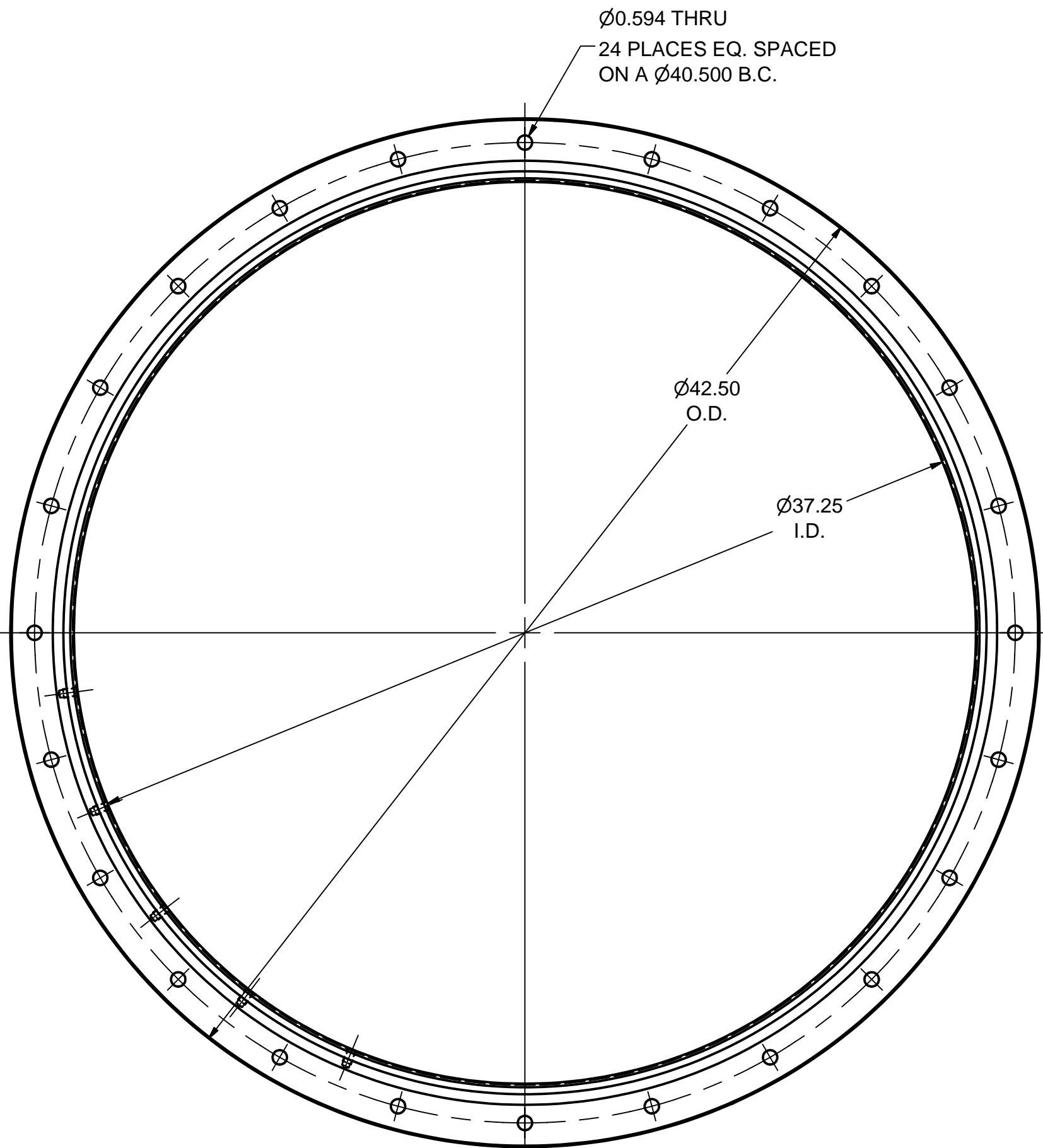
8

EYE BOLT BOSS

FILE NAME: 7102-053
SHEET NO.: 8
DFT. SCALE: 1:2
MATERIAL: 4"O.D. 304L STN STL ROD
QTY: 4 PER SUB-ASM
NOTES:



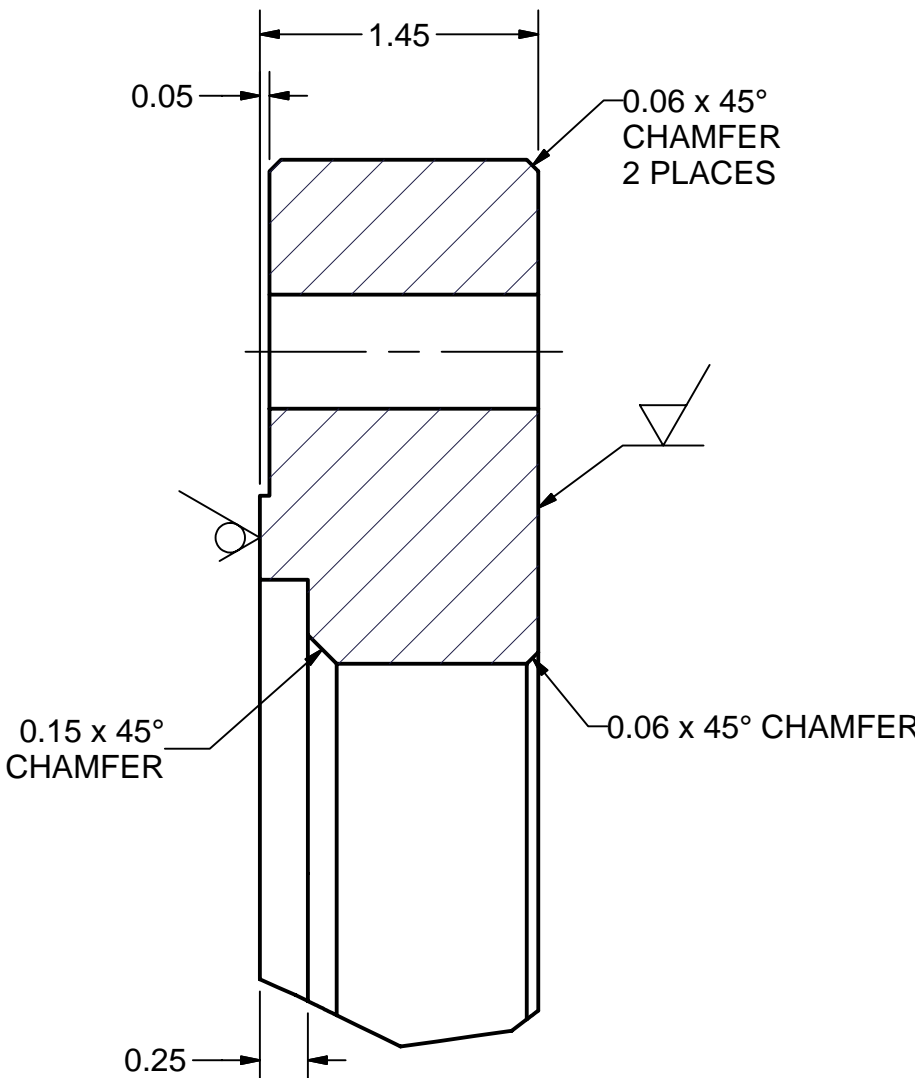
SECTION A-A



7

VAC VESSEL FLANGE

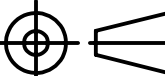


FILE NAME: 7102-053
SHEET NO.: 8
DFT. SCALE: 1:5
MATERIAL: 1.50" 304L STN STL SHEET
QTY: 2 PER SUB-ASM
NOTES:



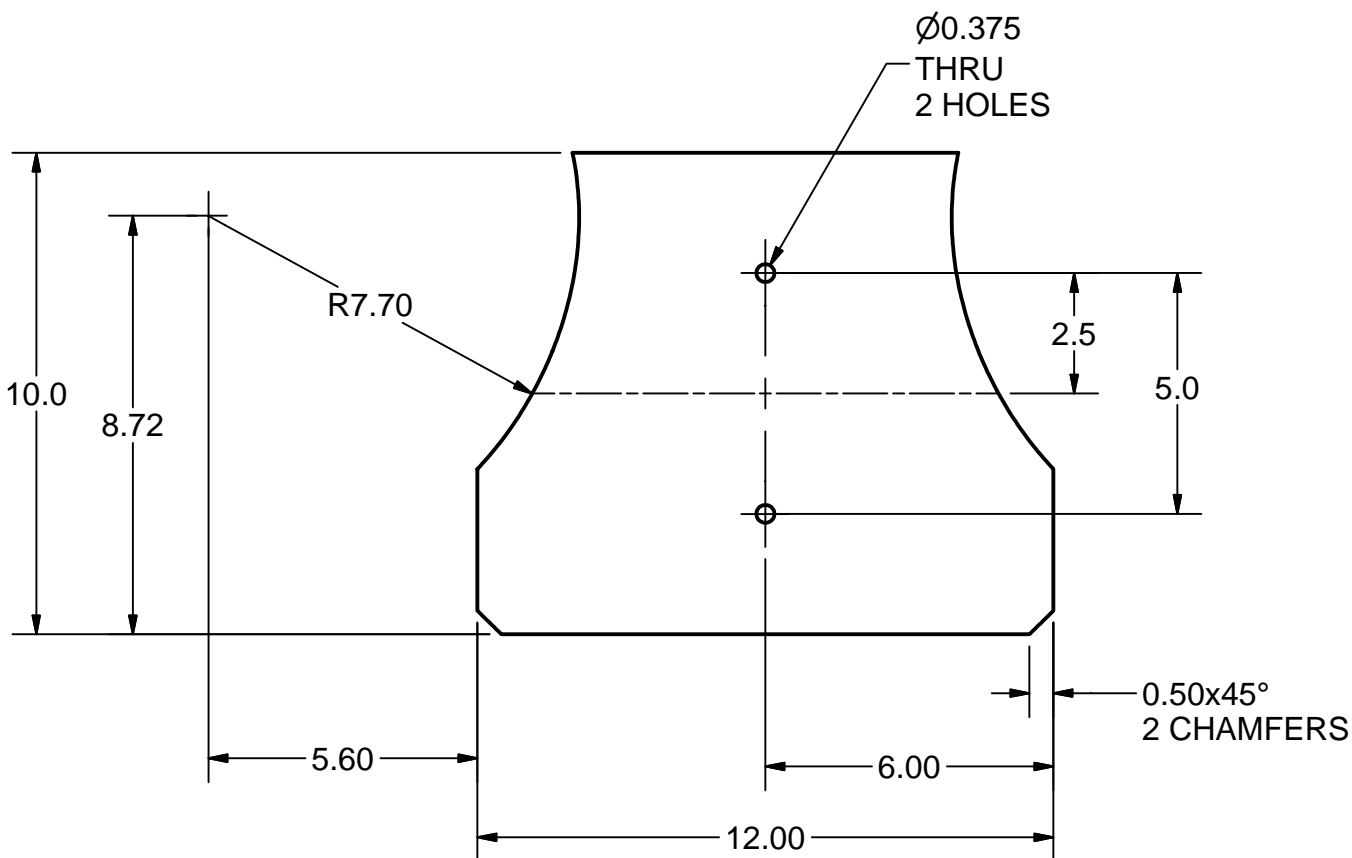
DETAIL Z
SCALE 1 : 1

FOR MACHINING LUBRICANT USE ONLY
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OR EQUIVALENT APPROVED BY CORNELL LEPP

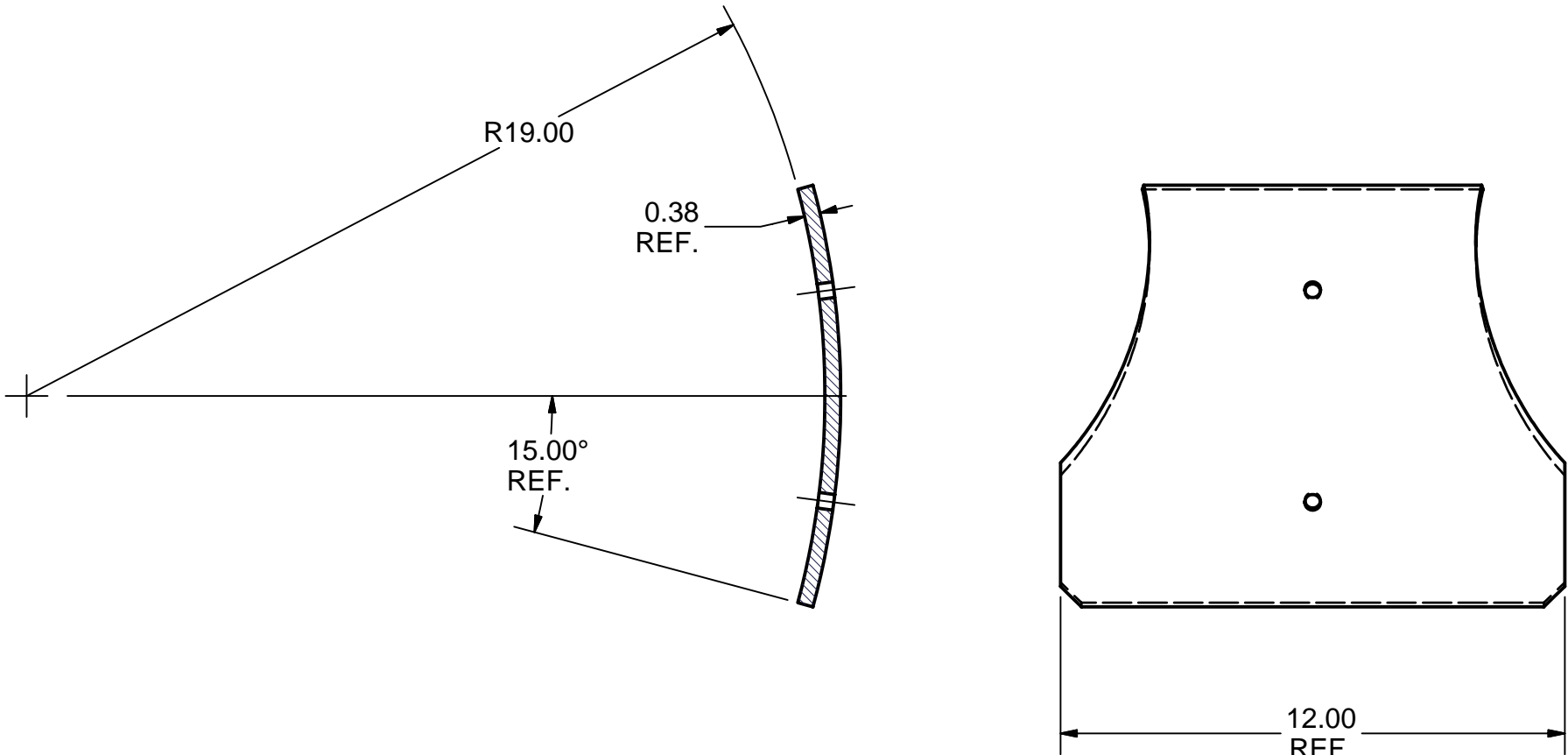
Release of final PO version for Meyer Tool - July 12, 2007

	ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
				QUANTITY				
PRINT DISTR.	PLOT DATE: 10/5/2007 CAD FILE NAME: 7102-053.idw							
7102-053 SH. NO. 8 OF 15	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 	<div> LEPP</div> <div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div> <div>LABORATORY FOR ELEMENTARY PARTICLE PHYSICS</div>					
		ERL Injector Cryomodule Vacuum Vessel, Vac Vessel Cylinder, Flanges and Eye Bolt Boss Details						
REV. A	CHECKED BY: EPC	DRAWN BY RHE / JO	DRAWN FOR M.Liepe	DATE 2/15/2007	SCALE	D	7102-053	REV. A
	APPROVED BY: EPC						SH. NO. 8 OF 15	

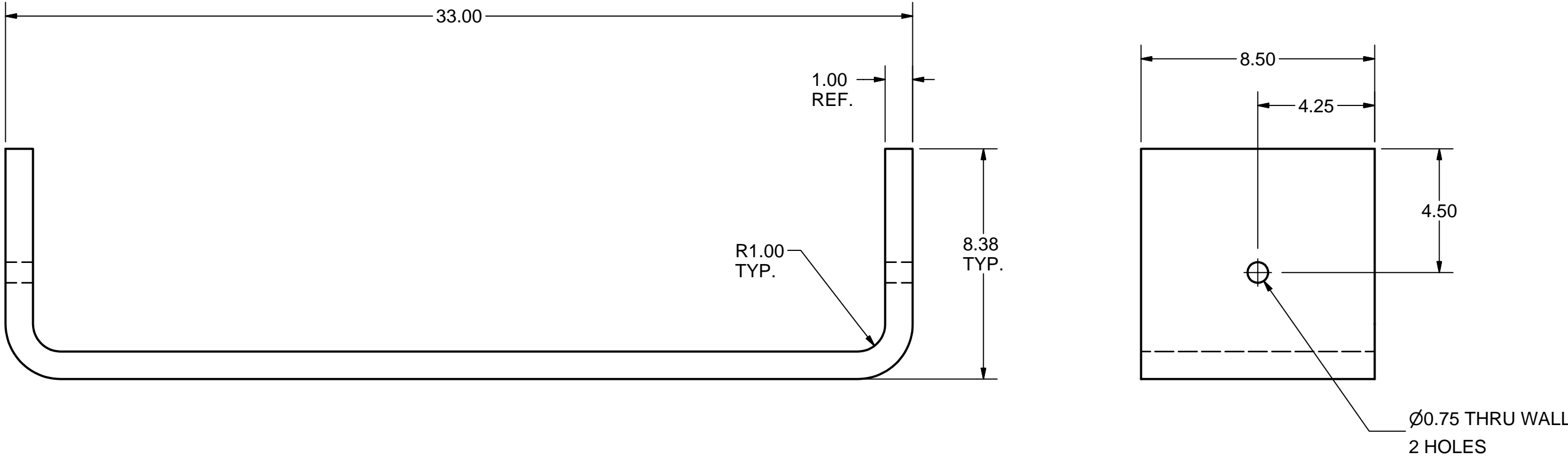
REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A		TWO HOLES DIA. 0.75" ADDED TO PART ITEM 10.	10/04/07	VM



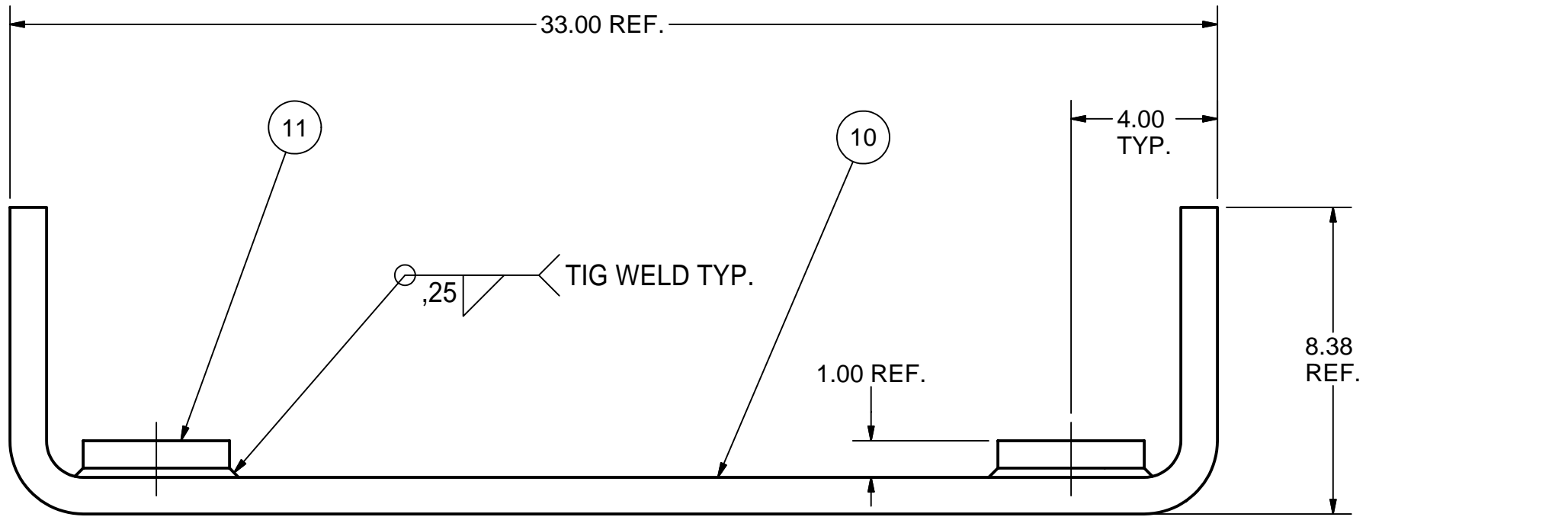
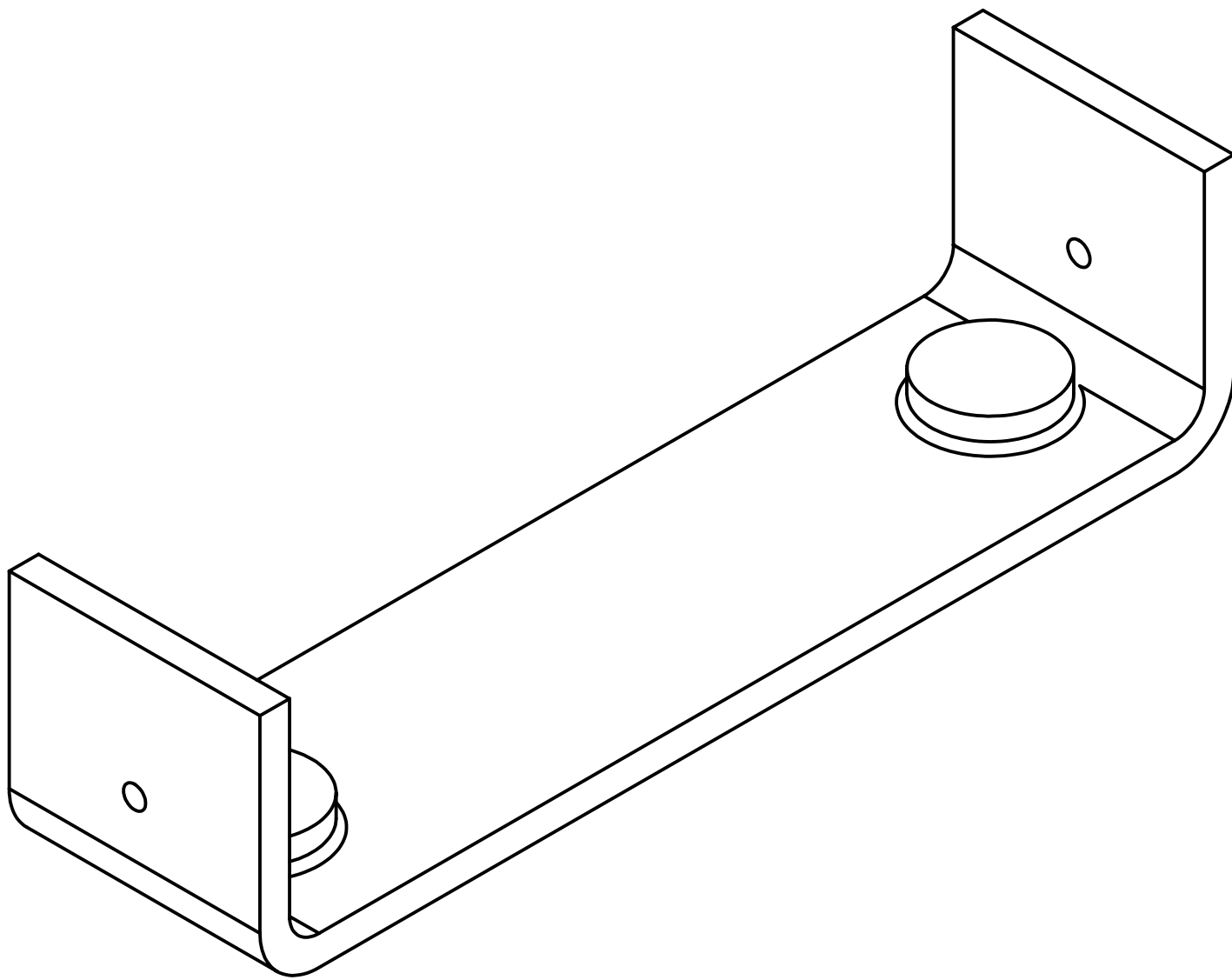
FLAT PATTERN



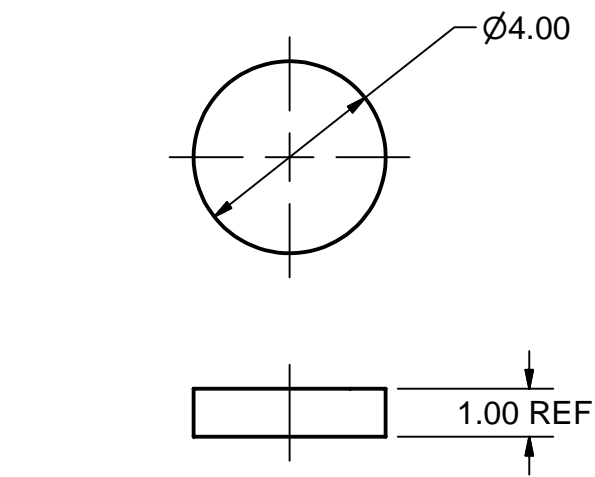
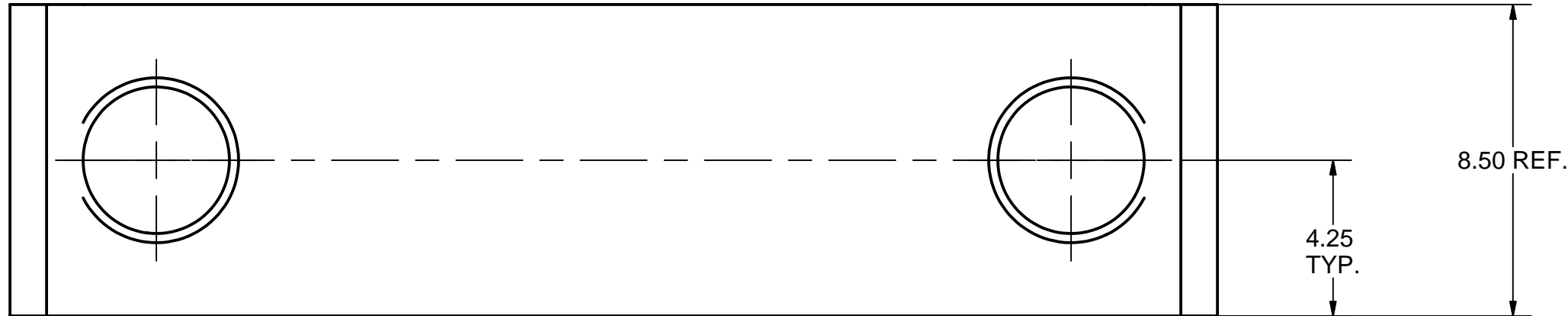
- 12 CYLINDER PATCH
- FILE NAME: 7102-053
SHEET NO.: 9
DFT. SCALE: 1:4
MATERIAL: 304L STN STL 3/8" THK. PLATE
QTY: 4 PER SUB-ASM
NOTES:



- 10 FOOT
- FILE NAME: 7102-053
SHEET NO.: 9
DFT. SCALE: 1:4
MATERIAL: 304L STN STL 1" THK. PLATE
QTY: 1 PER SUB-ASM (2 TOTAL)
NOTES: DEVELOPED LENGTH = 46.274" LONG

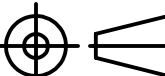
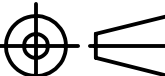
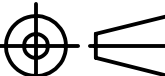


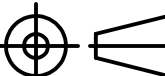



- 9 FOOT, SUB-ASM
- FILE NAME: 7102-053
SHEET NO.: 9
DFT. SCALE: 1:4
MATERIAL: AS NOTED
QTY: 2 PER SUB-ASM
NOTES:

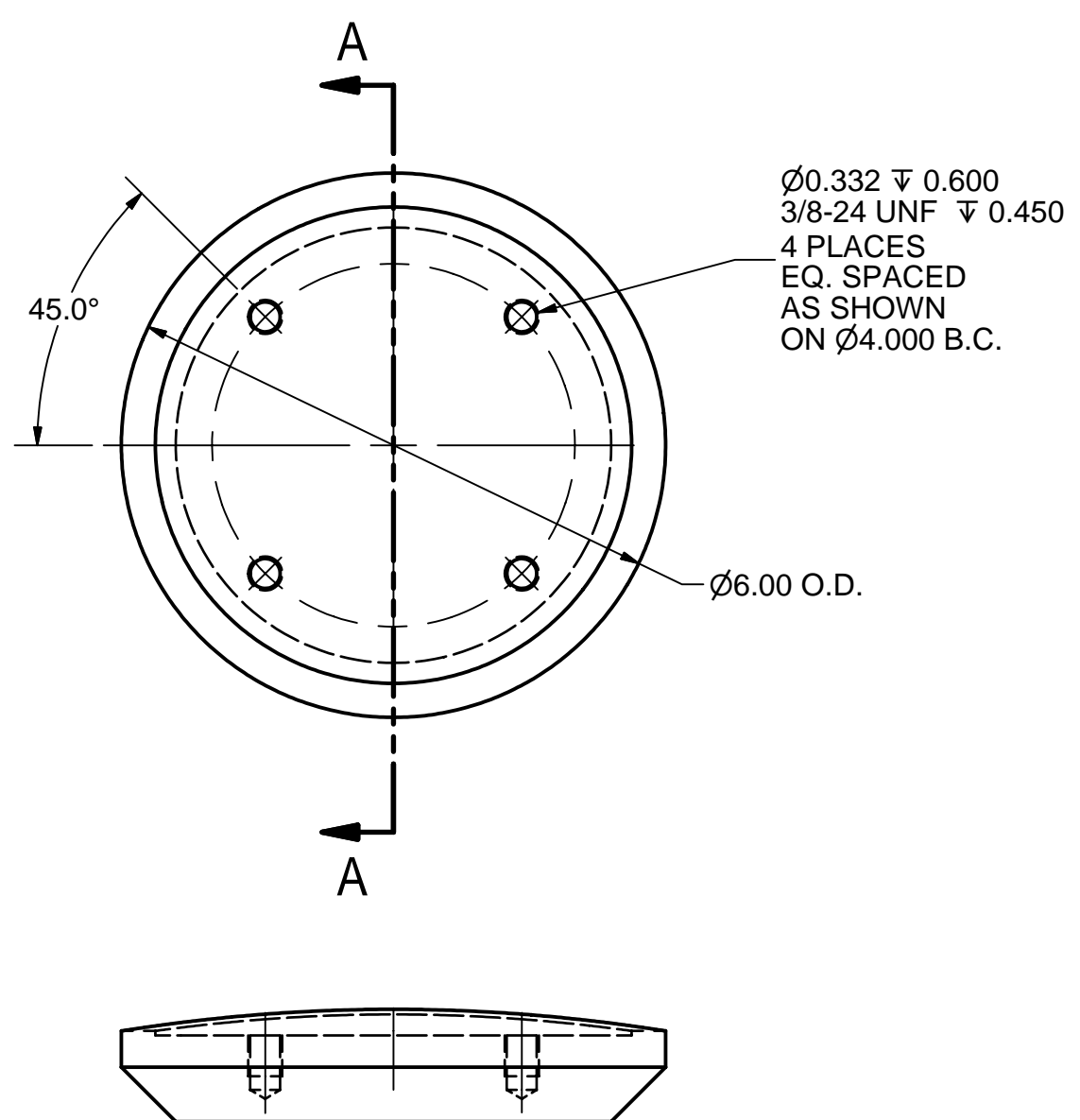
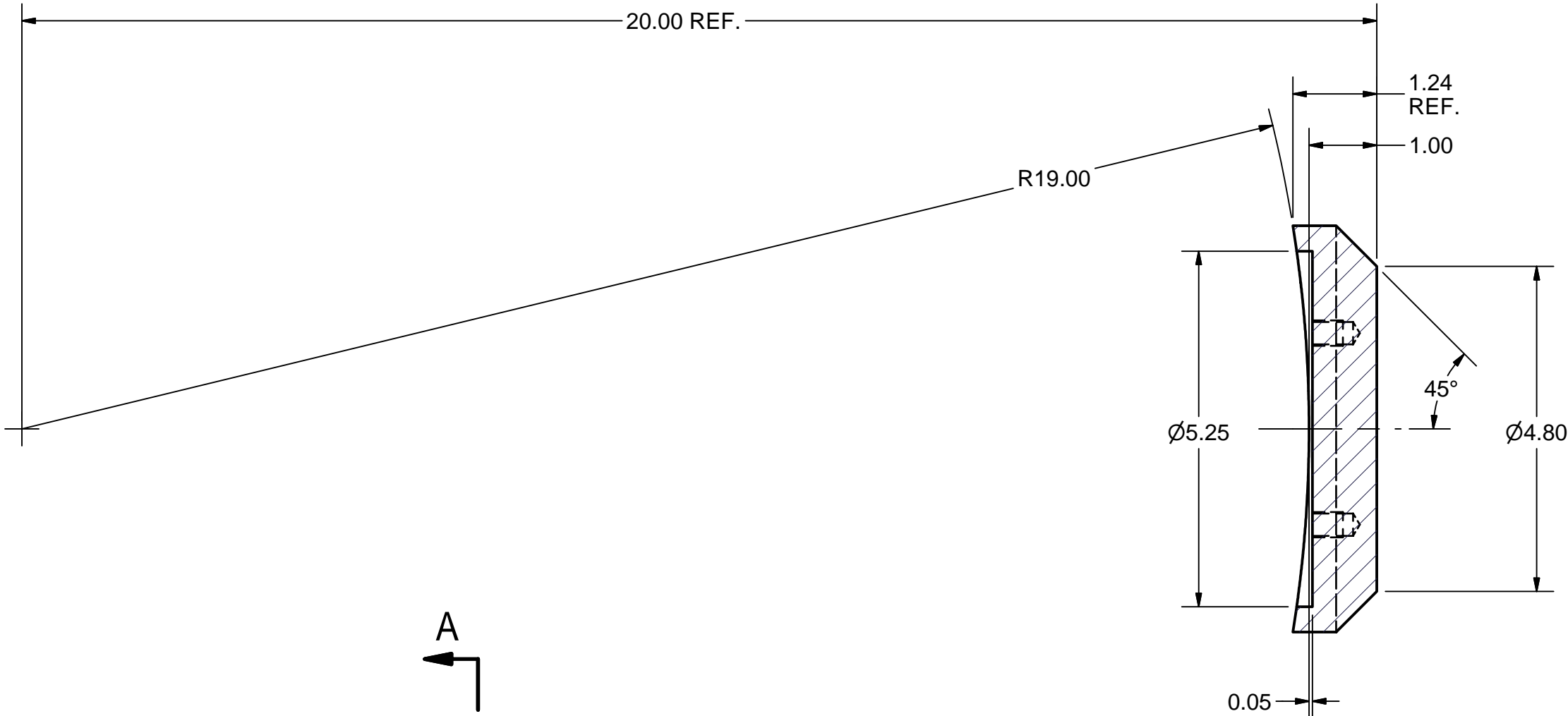


- 11 FOOT BOSS
- FILE NAME: 7102-053
SHEET NO.: 9
DFT. SCALE: 1:4
MATERIAL: 304L STN STL 1" THK. PLATE
QTY: 2 PER SUB-ASM (4 TOTAL)
NOTES:

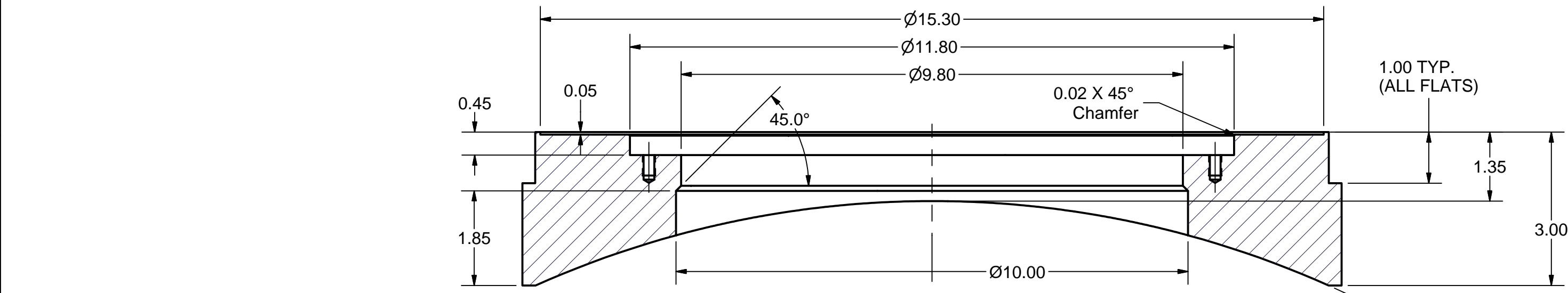
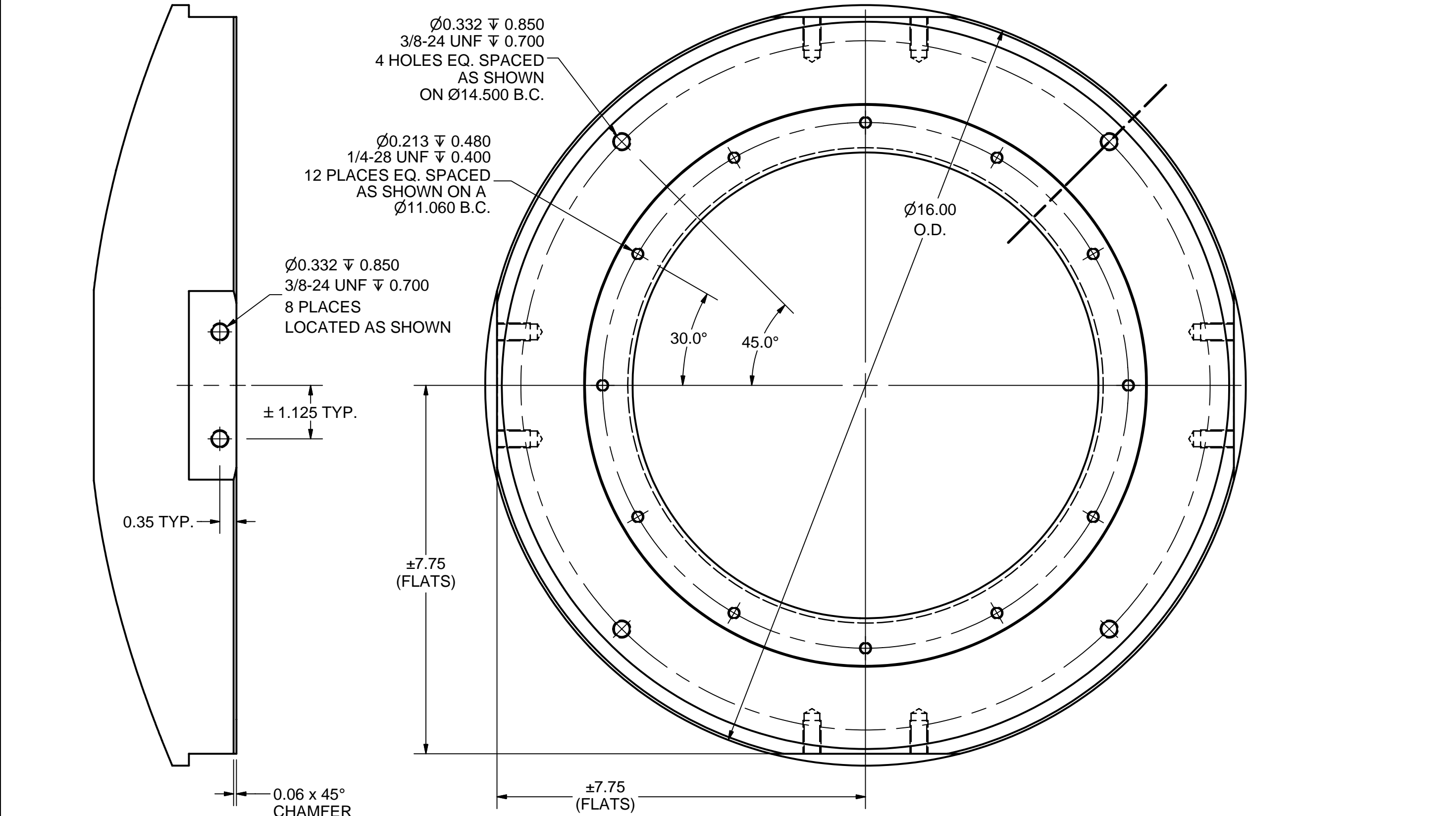
Release of final PO version for Meyer Tool - July 12, 2007

		11	7102-053 (SH. 9)	FOOT BOSS	2					
		10	7102-053 (SH. 9)	VACUUM VESSEL FOOT	1					
		9	7102-053 (SH. 9)	VACUUM VESSEL FOOT, SUB-ASM	X	2				
		ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.	
					QUANTITY					
	PRINT DISTR.	PLOT DATE: 10/5/2007 CAD FILE NAME: 7102-053.idw								
	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 		<div><div>LEPP</div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div> ERL Injector Cryomodule Vacuum Vessel, Vac Vessel Foot Details + Sub-Asm						
	REV.	CHECKED BY: EPC		DRAWN BY	DRAWN FOR	DATE	SCALE		7102-053 SH. NO. 9 OF 15	REV. A
		APPROVED BY: EPC		RHE / JO	M.Liepe	2/15/2007				

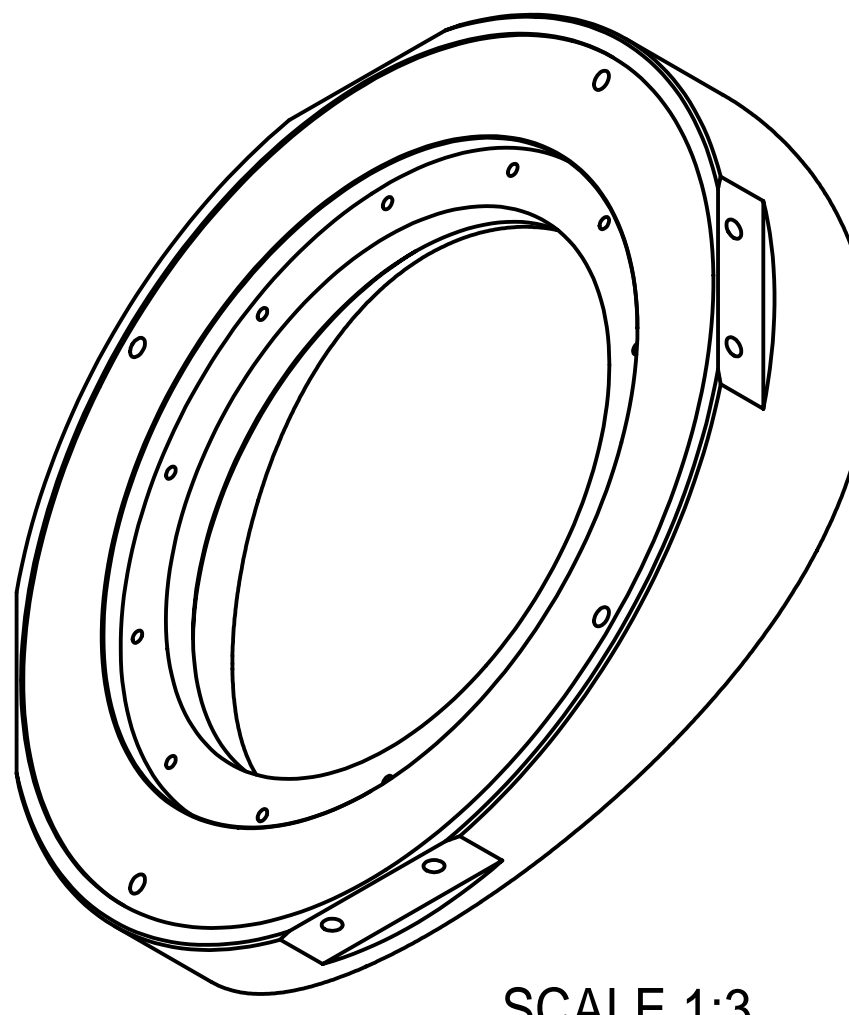
REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



14 GATE VALVE SUPPORT BLANK
FILE NAME: 7102-053
SHEET NO.: 10
DFT. SCALE: 1:2
MATERIAL: 304L STN STL
QTY: 2 PER SUB-ASM
NOTES:



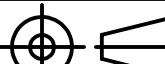


13 TOP FLANGE
FILE NAME: 7102-053
SHEET NO.: 10
DFT. SCALE: 1:2
MATERIAL: 304L STN STL
QTY: 3 PER SUB-ASM
NOTES:

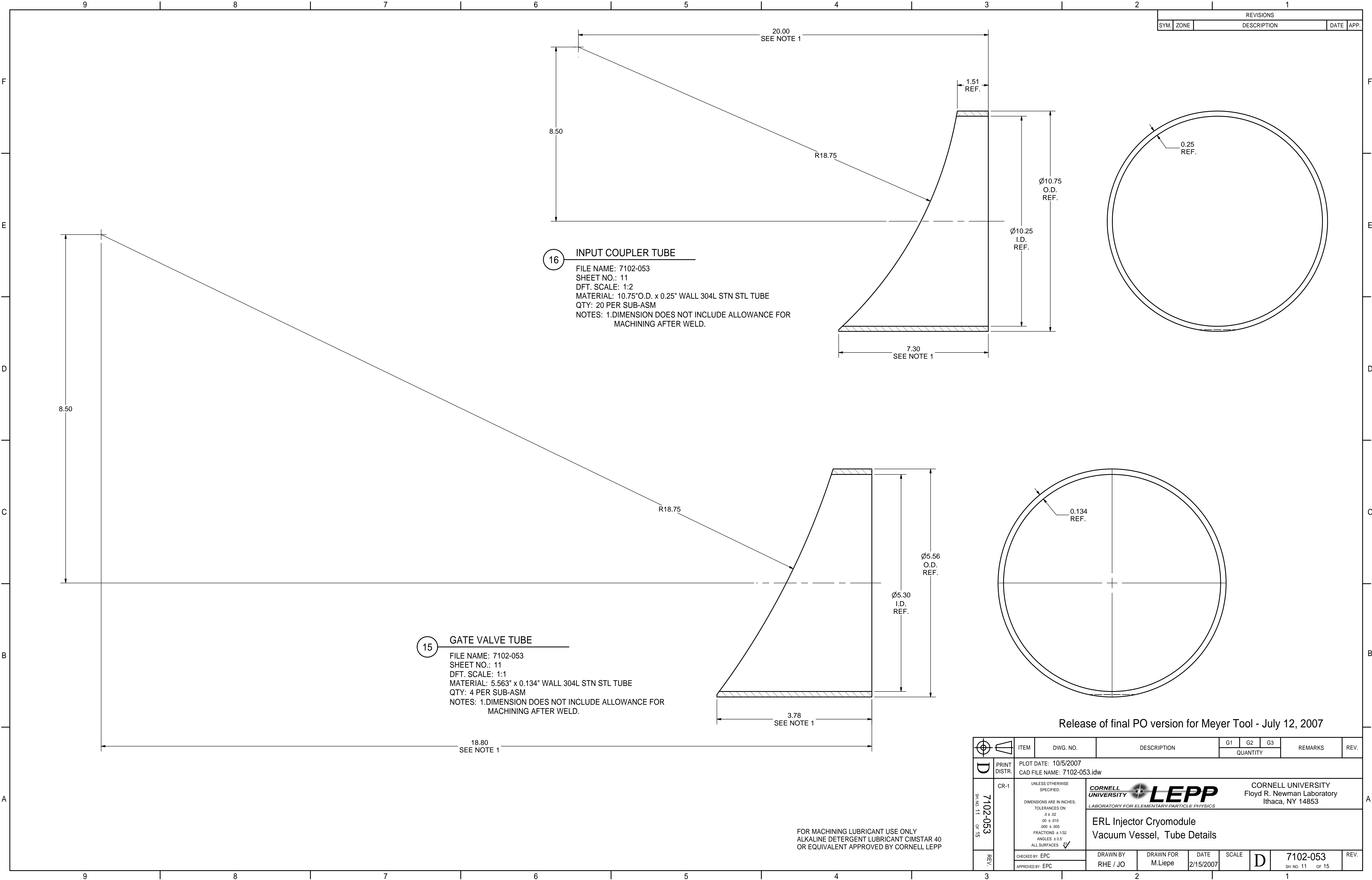


SCALE 1:3

Release of final PO version for Meyer Tool - July 12, 2007

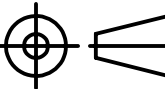


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OR EQUIVALENT APPROVED BY CORNELL LEPP

		ITEM	DWG. NO.	DESCRIPTION			G1G2G3			REMARKS	REV.		
		QUANTITY											
D	PRINT DISTR.	PLOT DATE: 10/5/2007 CAD FILE NAME: 7102-053.idw											
	7102-053 SH. NO. 10 OF 15	CR-1	<div>UNLESS OTHERWISE SPECIFIED:</div> <div>DIMENSIONS ARE IN INCHES:</div> <div>TOLERANCES ON:</div> <div>0 ± .02</div> <div>.00 ± .010</div> <div>.000 ± .005</div> <div>FRACTIONS ± 1/32</div> <div>ANGLES ± 0.5°</div> <div>ALL SURFACES </div>				<div><div>CORNELL UNIVERSITY</div><div></div><div>CORNELL UNIVERSITY</div><div>Floyd R. Newman Laboratory</div><div>Ithaca, NY 14853</div></div> <div>ERL Injector Cryomodule</div> <div>Vacuum Vessel, Top Flange + Gate Valve Support Blank Details</div>						
REV.			CHECKED BY: EPC		DRAWN BY		DRAWN FOR		DATE		SCALE	D	7102-053 SH. NO. 10 OF 15
APPROVED BY: EPC		RHE / JO		M.Liepe		2/15/2007							

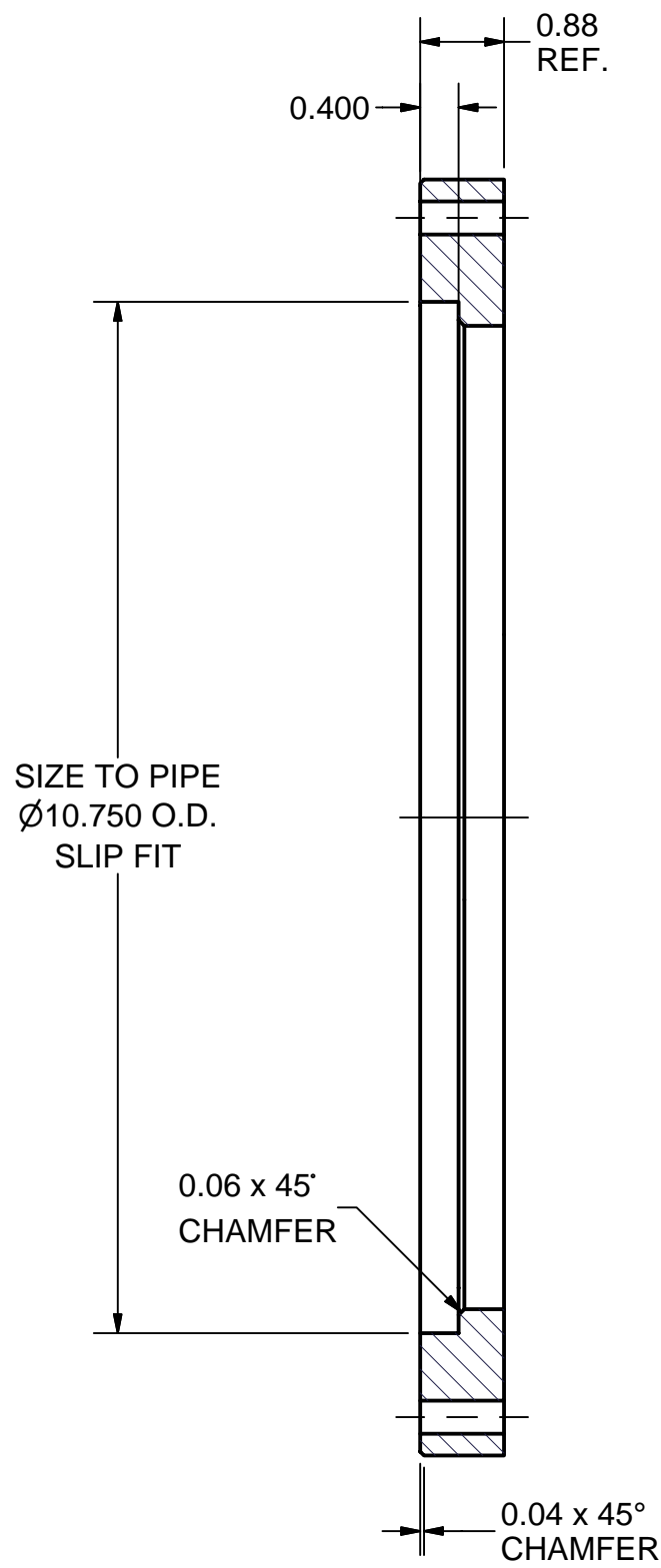
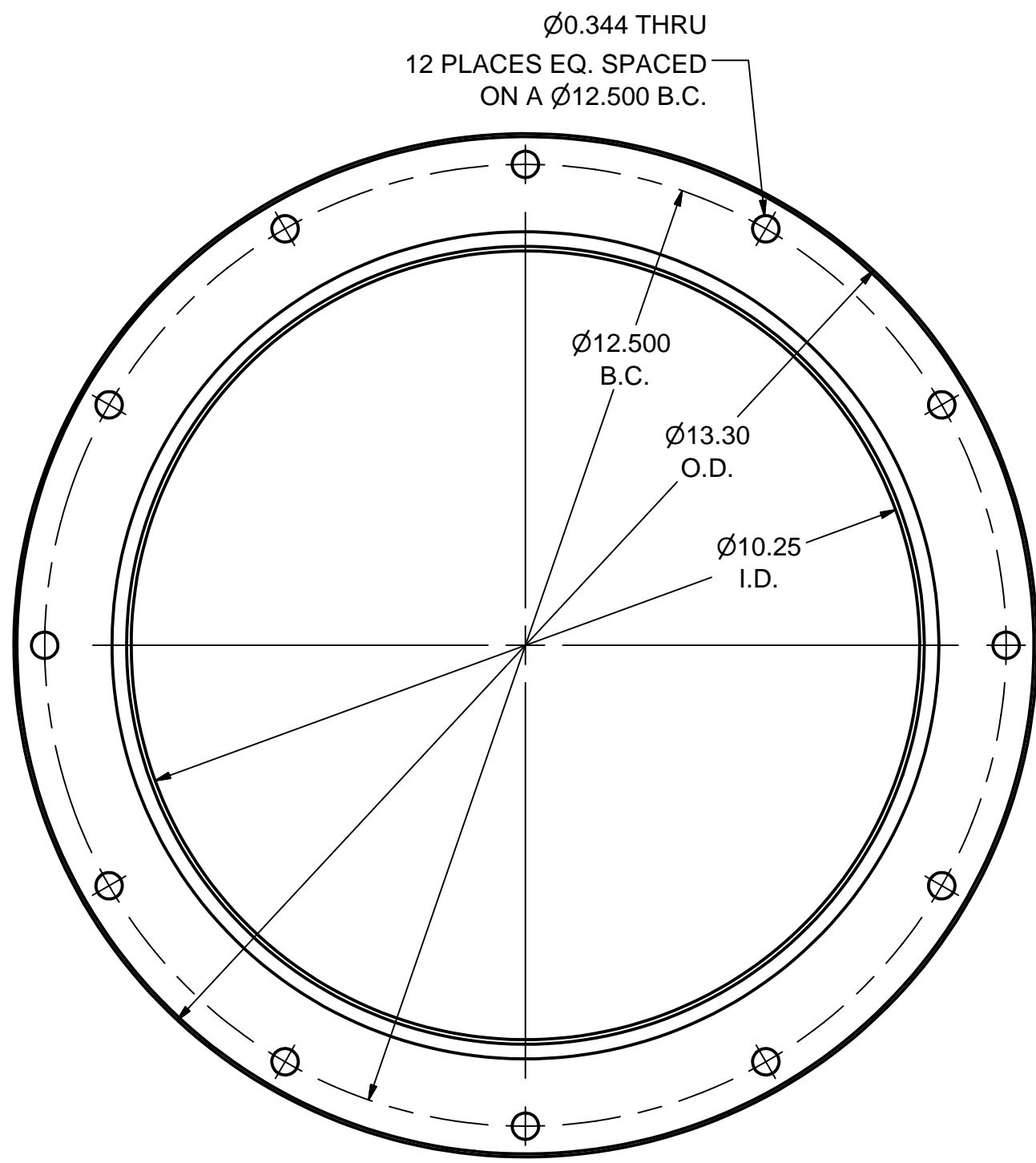


REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

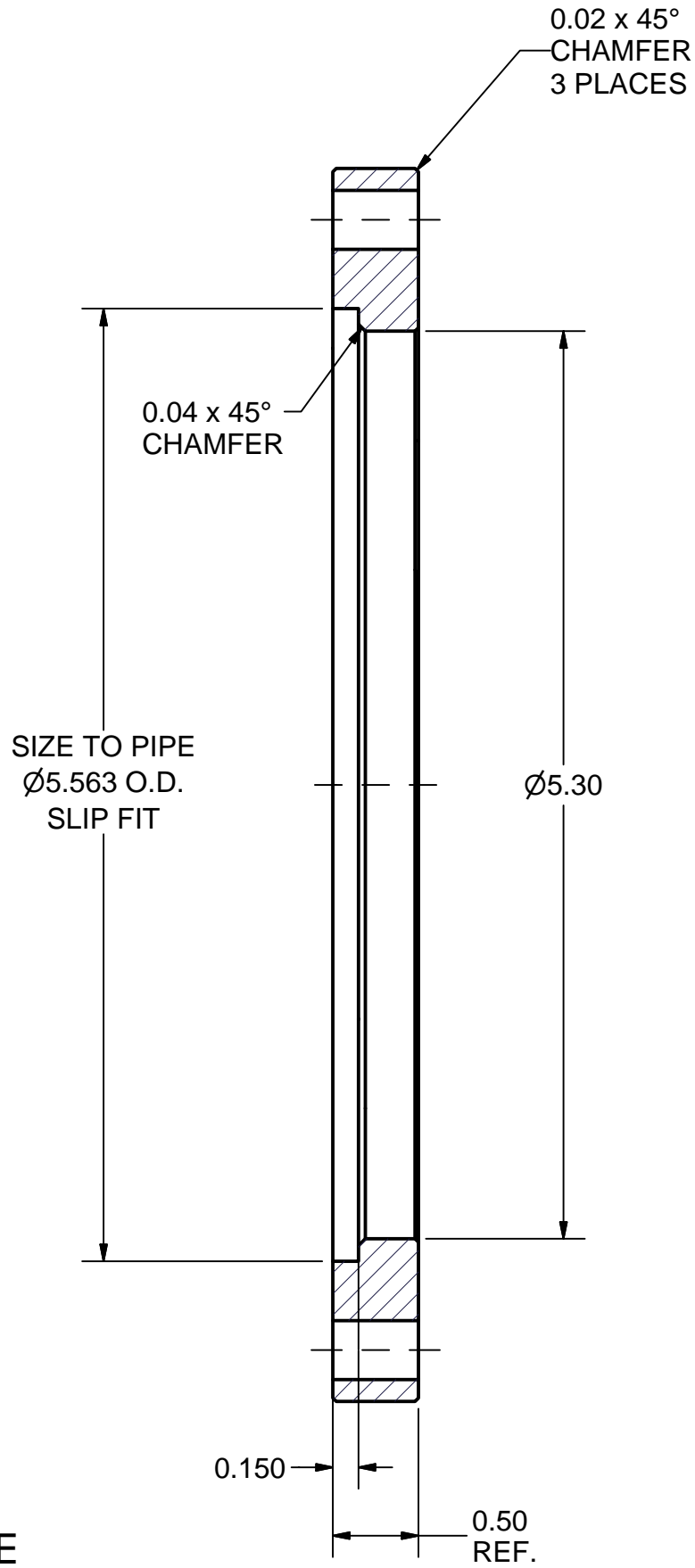
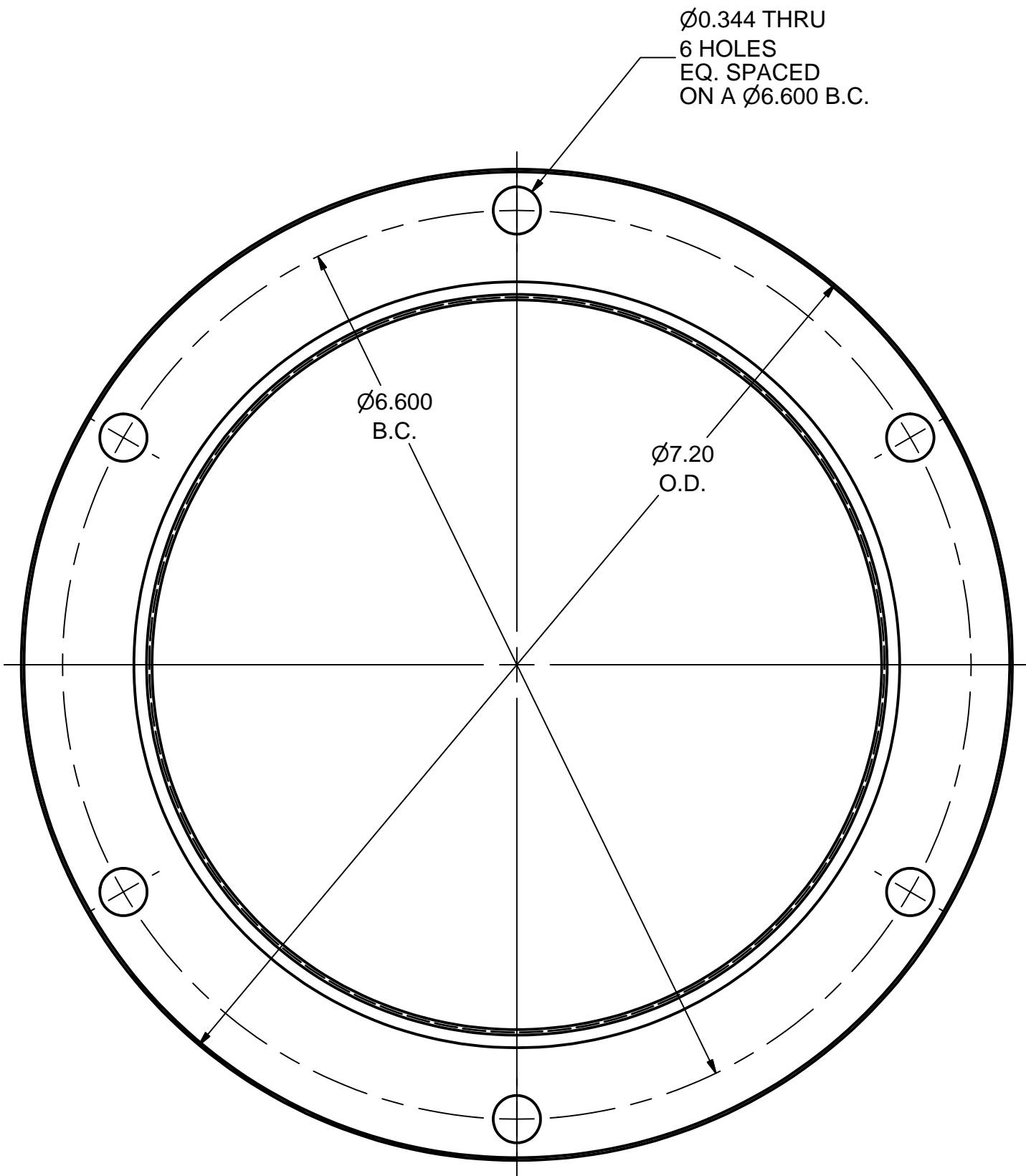
Release of final PO version for Meyer Tool - July 12, 2007

	ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
				QUANTITY				
PRINT DISTR.	PLOT DATE: 10/5/2007 CAD FILE NAME: 7102-053.idw							
7102-053 SH. NO. 11 OF 15	CR-1	UNLESS OTHERWISE SPECIFIED:	<div>CORNELL UNIVERSITY  CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div>					
		DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 						
		ERL Injector Cryomodule Vacuum Vessel, Tube Details						
		CHECKED BY: EPC	DRAWN BY	DRAWN FOR	DATE	SCALE	D	7102-053
APPROVED BY: EPC	RHE / JO	M.Liepe	2/15/2007		SH. NO. 11 OF 15			
REV.								

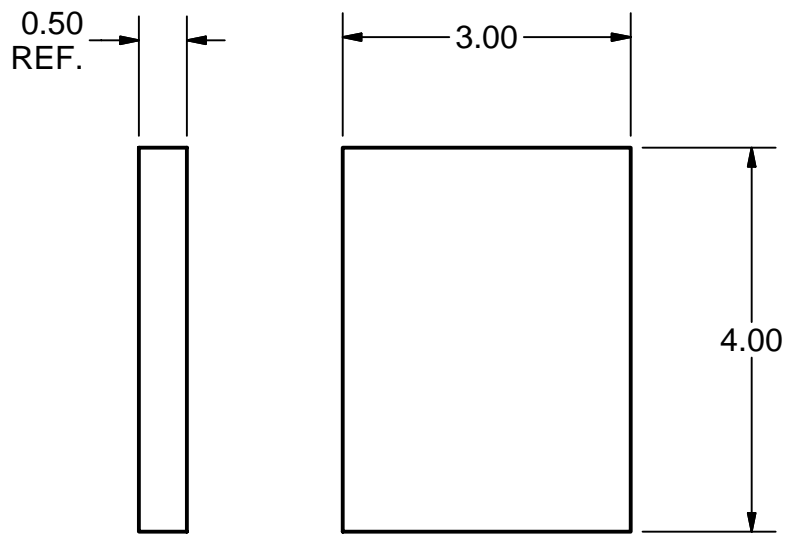
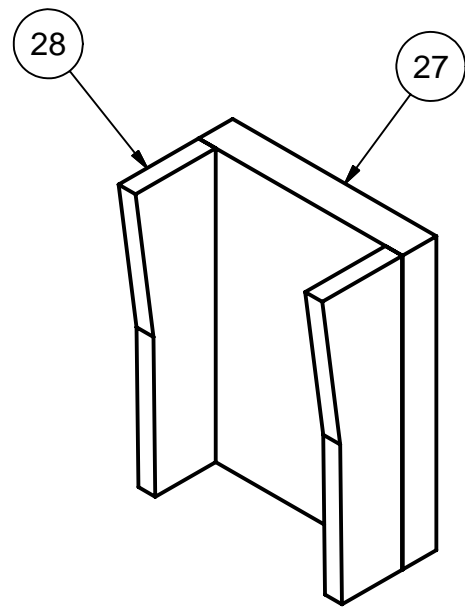
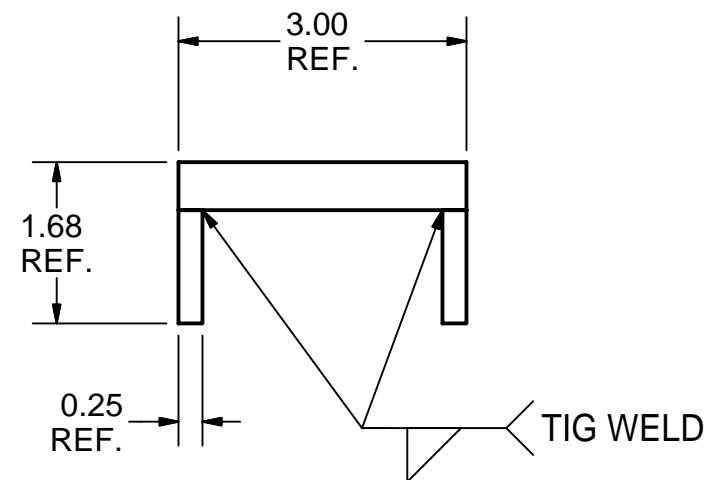
REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



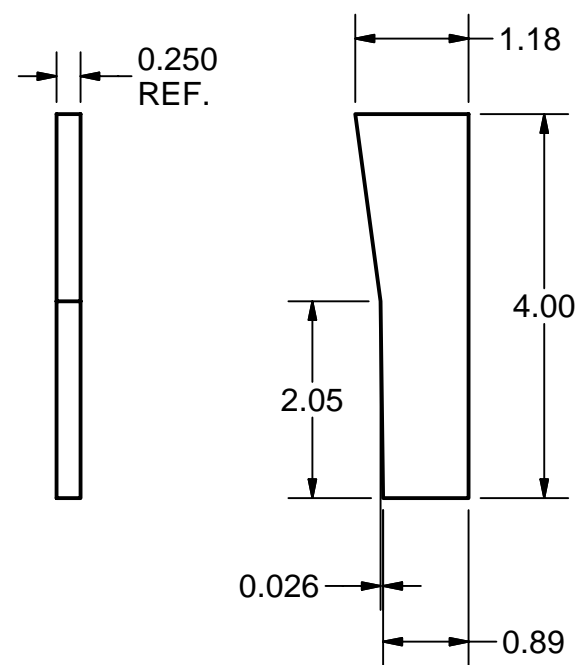
19 INPUT COUPLER FLANGE
FILE NAME: 7102-053
SHEET NO.: 12
DFT. SCALE: 1:2
MATERIAL: 7/8" 304L STN STL SHEET
QTY: 20 PER SUB-ASM
NOTES:



18 GATE VALVE FLANGE
FILE NAME: 7102-053
SHEET NO.: 12
DFT. SCALE: 1:1
MATERIAL: 1/2" 304L STN STL SHEET
QTY: 4 PER SUB-ASM
NOTES:



27 WAVEGUIDE SUPPORT PLATE II
FILE NAME: 7102-053
SHEET NO.: 12
DFT. SCALE: 1:2
MATERIAL: 1/2" 304L STN STL SHEET
QTY: 1 PER SUB ASM (20 TOTAL)
NOTES:

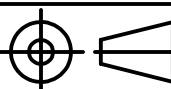




28 WAVEGUIDE SUPPORT PLATE I
FILE NAME: 7102-053
SHEET NO.: 12
DFT. SCALE: 1:1
MATERIAL: 1/4" 304L STN STL SHEET
QTY: 2 PER SUB-ASM (40 TOTAL)
NOTES:

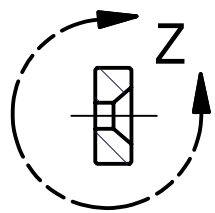
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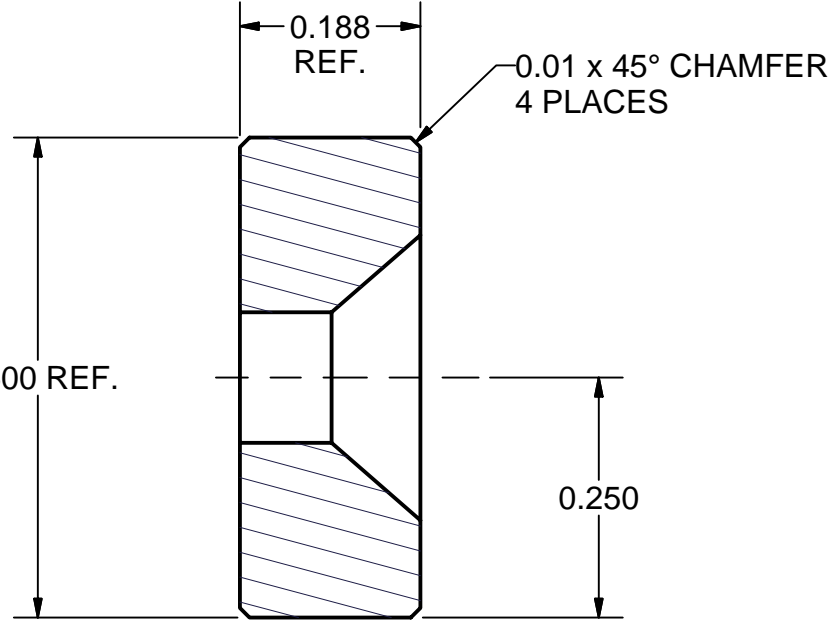
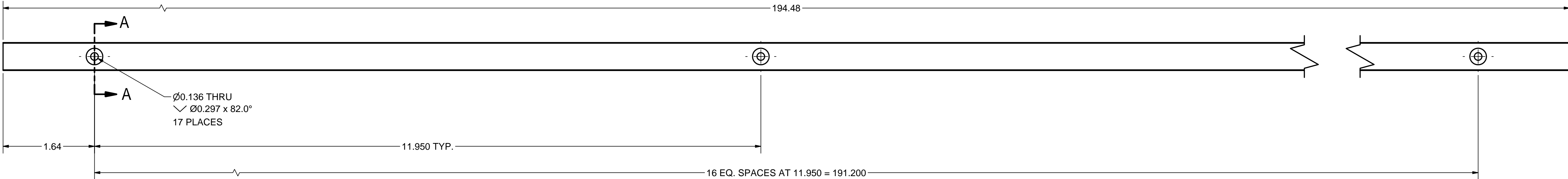
28	7102-053 (SH. 12)	WAVEGUIDE SUPPORT PLATE I	2				
27	7102-053 (SH. 12)	WAVEGUIDE SUPPORT PLATE II	1				
26	7102-053 (SH. 12)	WAVEGUIDE SUPPORT BRACKET, SUB-ASM	20	X			

	ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS	REV.
							QUANTITY			
PRINT DISTR.	PLOT DATE: 10/5/2007 CAD FILE NAME: 7102-053.idw									
7102-053 SH NO. 12 OF 15	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .01 ± .02 .02 ± .010 .030 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 		<div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div> <div>ERL Injector Cryomodule Vacuum Vessel, Small Flange Details</div>						
	REV.	CHECKED BY: EPC APPROVED BY: EPC	DRAWN BY RHE / JO	DRAWN FOR M.Liepe	DATE 2/15/2007	SCALE	D	7102-053 SH. NO. 12 OF 15	REV.	

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A		REMOVED 5.500 WELD PREP ON PT.17 TMK	7/12/07	EPC

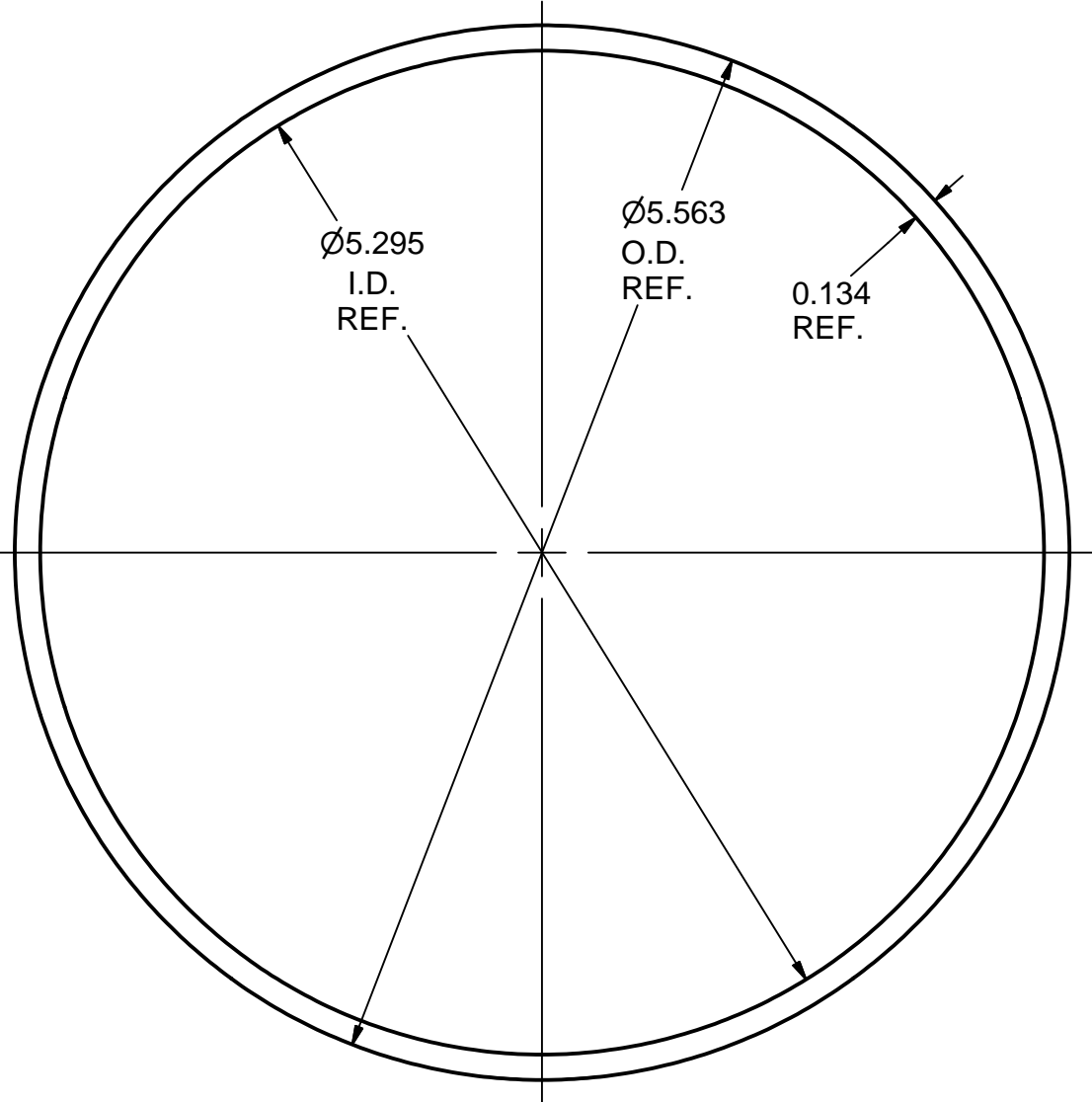
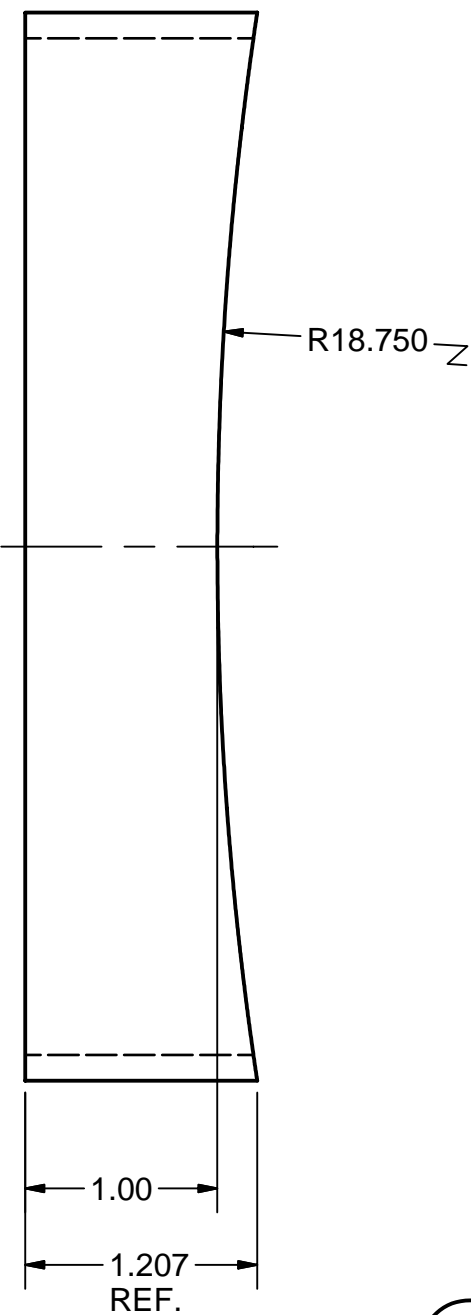


SECTION A-A



DETAIL Z
SCALE 5 : 1

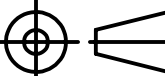



22 GUIDING STRIP
FILE NAME: 7102-053
SHEET NO.: 14
DFT. SCALE: 1:1
MATERIAL: 0.18" x 0.38" 304L STN STL RECT. BAR
QTY: 2 PER ASM
NOTES:

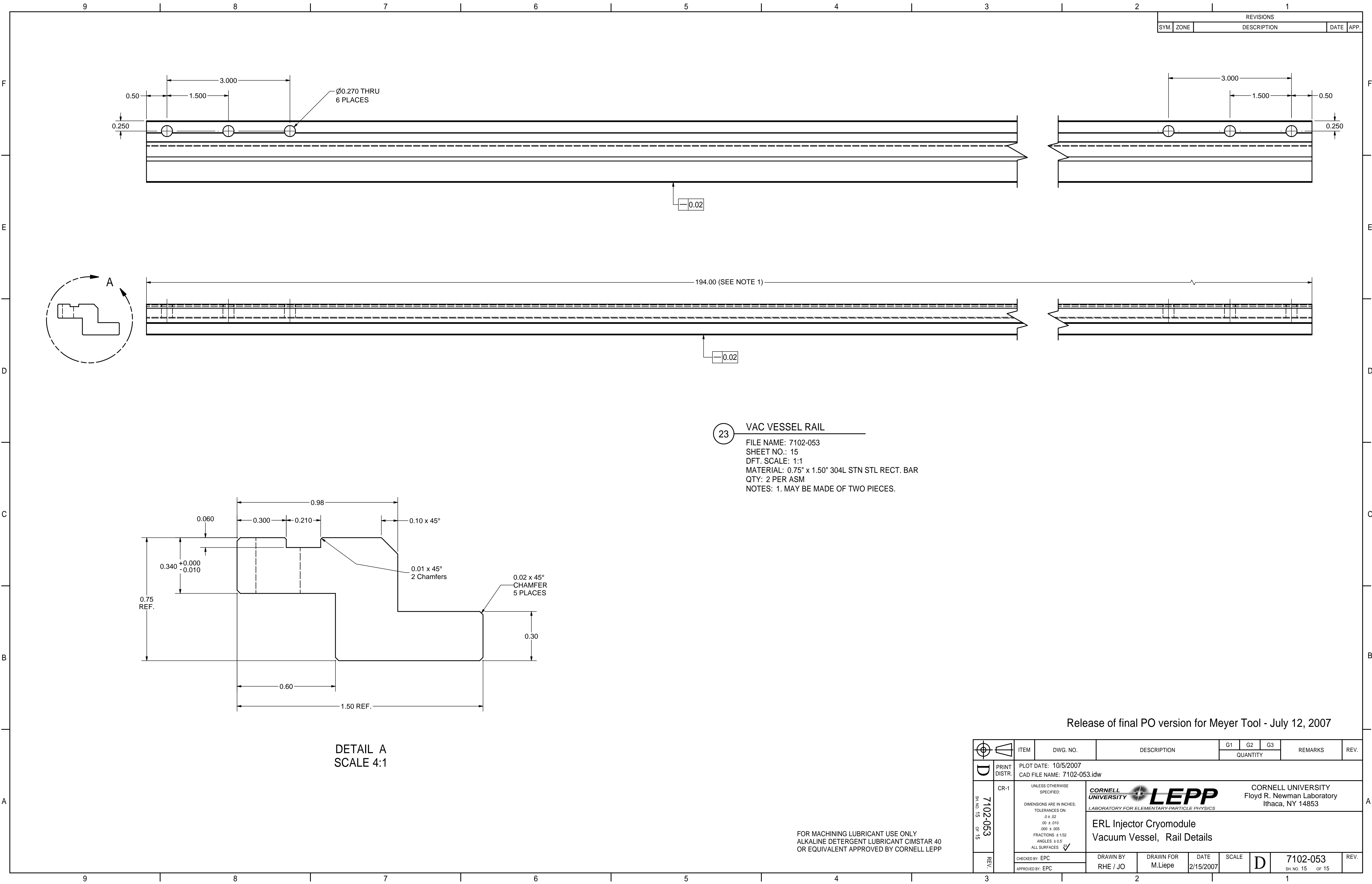


17 TOP SMALL TUBE
FILE NAME: 7102-053
SHEET NO.: 14
DFT. SCALE: 1:1
MATERIAL: 5.563"OD x 0.134"WALL 304L ST. STEEL TUBE
QTY: 2 PER ASSEMBLY
NOTES:

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	ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS	REV.
							QUANTITY			
	PRINT DISTR.	PLOT DATE: 10/5/2007 CAD FILE NAME: 7102-053.idw								
SH. NO. 14 OF 15	7102-053	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 		<div> CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div> <div>ERL Injector Cryomodule Vacuum Vessel, Guiding Strip Details</div>					
		CHECKED BY: EPC	DRAWN BY RHE / JO	DRAWN FOR M.Liepe						
		APPROVED BY: EPC								



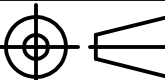





23 VAC VESSEL RAIL

FILE NAME: 7102-053
SHEET NO.: 15
DFT. SCALE: 1:1
MATERIAL: 0.75" x 1.50" 304L STN STL RECT. BAR
QTY: 2 PER ASM
NOTES: 1. MAY BE MADE OF TWO PIECES.

DETAIL A
SCALE 4:1

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Release of final PO version for Meyer Tool - July 12, 2007

	ITEM	DWG. NO.	DESCRIPTION				G1G2G3		REMARKS	REV.
						QUANTITY				
	PRINT DISTR.	PLOT DATE: 10/5/2007 CAD FILE NAME: 7102-053.idw								
	CR-1	<div>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES </div>		<div>  CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853 LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div>						
SH. NO. 15 OF 15	7102-053	<div>ERL Injector Cryomodule Vacuum Vessel, Rail Details</div>								
	REV.	CHECKED BY: EPC		DRAWN BY RHE / JO	DRAWN FOR M.Liepe	DATE 2/15/2007	SCALE		7102-053	REV.
		APPROVED BY: EPC		SH. NO. 15 OF 15						