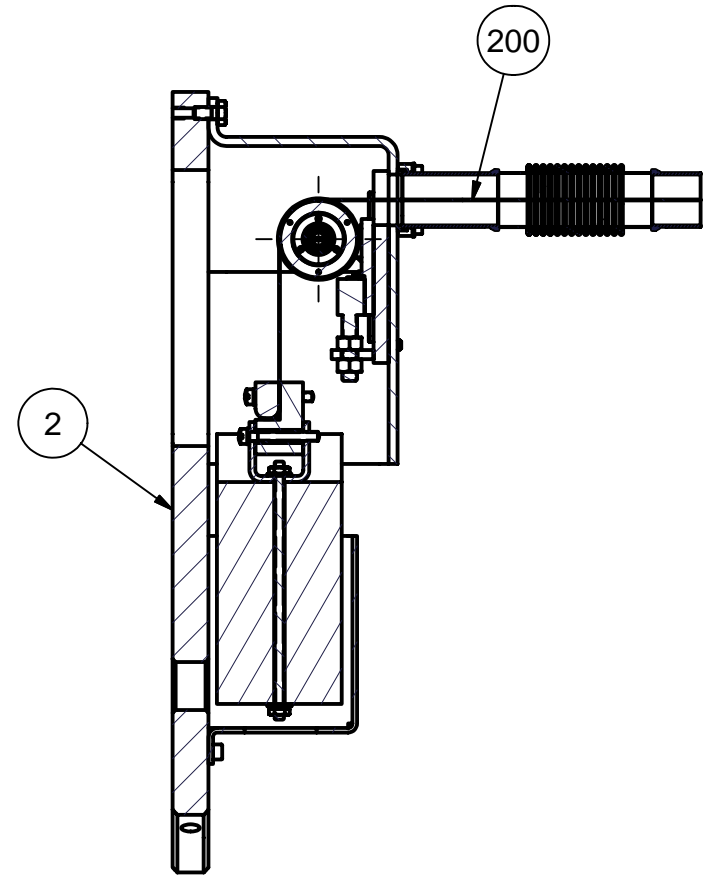
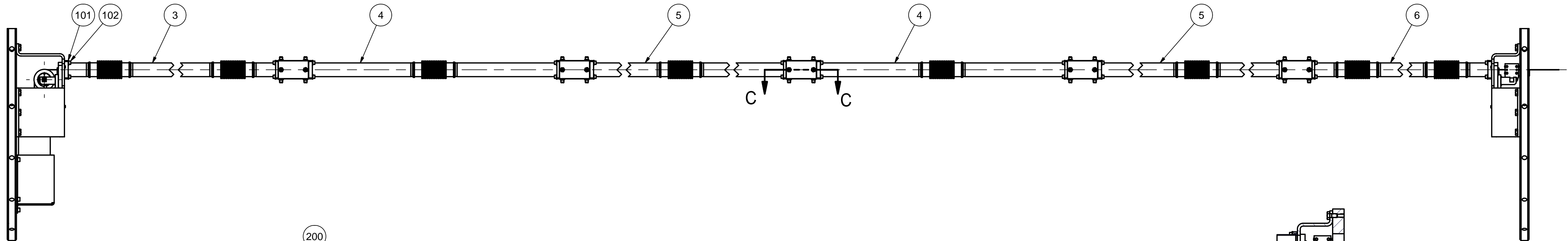
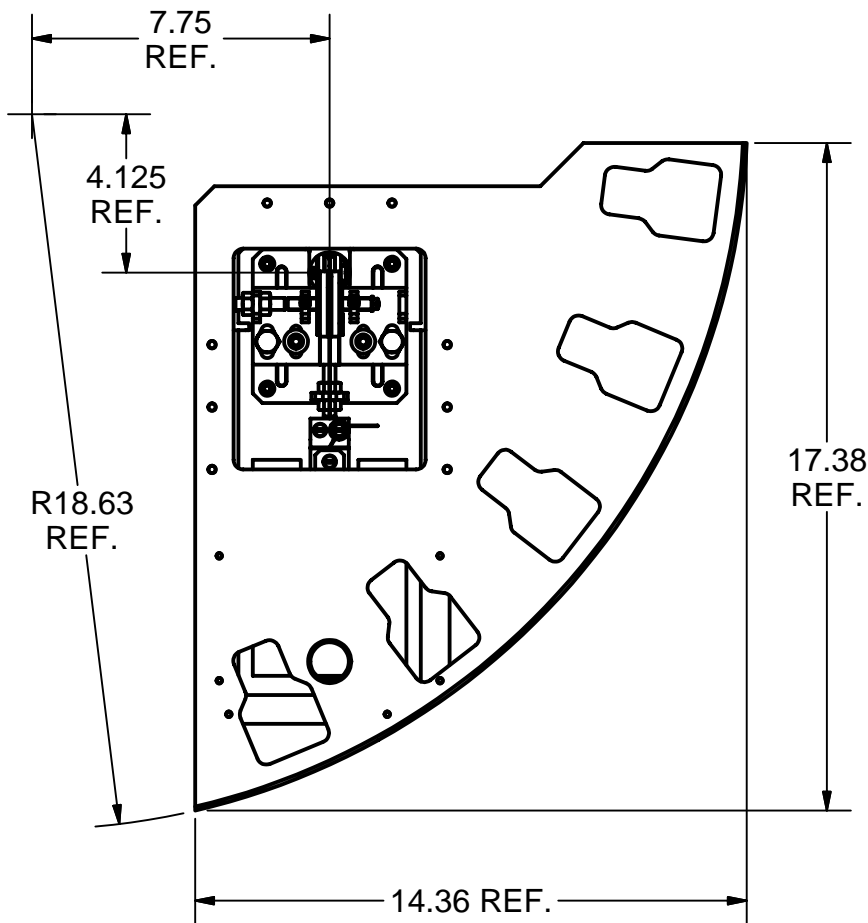
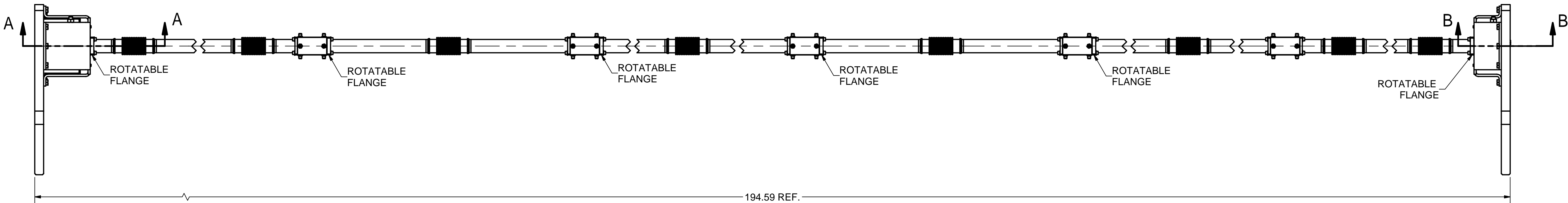


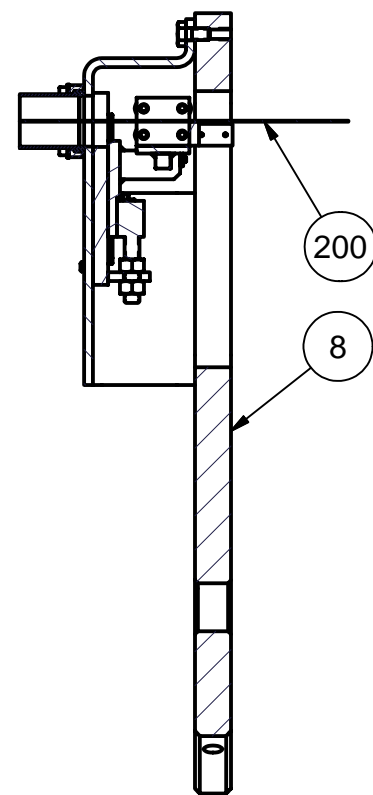
REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.



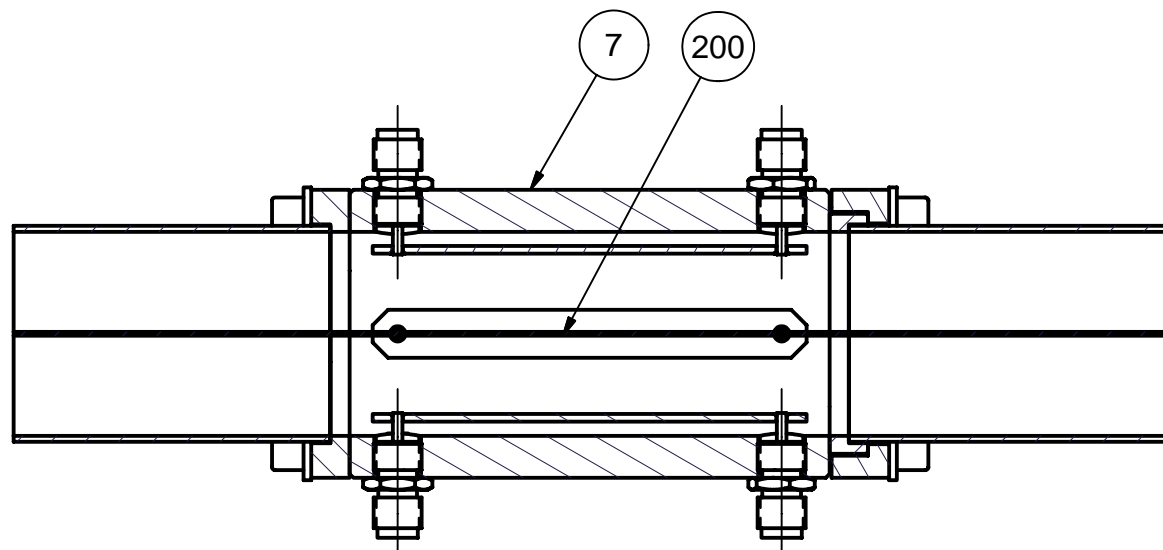
SECTION A-A
SCALE 1 : 4

1 WPM ASSEMBLY

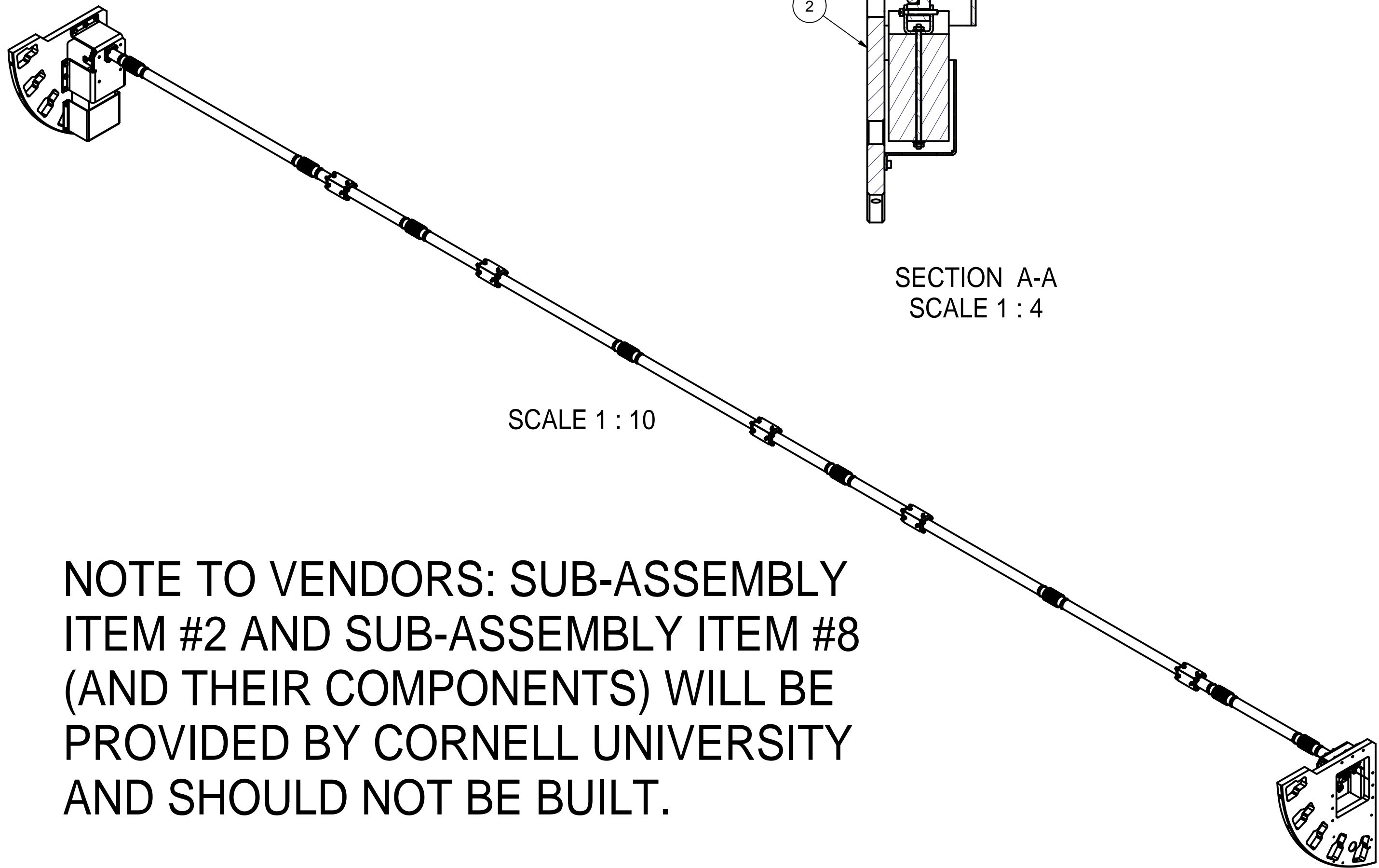
FILE NAME: 7102-063
SHEET NO.: 1
DFT. SCALE: 1:5
MATERIAL:
QTY: 1
NOTES: ITEM 7 WILL BE INSTALLED ON CAVITY (SEE 7102-034 OR 7102-035).
ITEM 2 WILL BE INSTALLED ON THE BEAM EXIT SIDE OF VACUUM VESSEL (7102-053).
ITEM 8 WILL BE INSTALLED ON BEAM ENTRANCE SIDE OF VACUUM VESSEL (7102-053).



SECTION B-B
SCALE 1:4



SECTION C-C
SCALE 1 : 1





SCALE 1 : 10

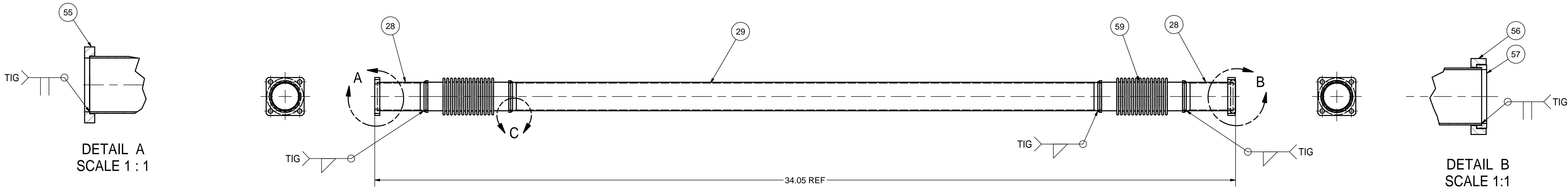
NOTE TO VENDORS: SUB-ASSEMBLY
ITEM #2 AND SUB-ASSEMBLY ITEM #8
(AND THEIR COMPONENTS) WILL BE
PROVIDED BY CORNELL UNIVERSITY
AND SHOULD NOT BE BUILT.

Release of final PO version for Meyer Tool - July 13, 2007.

200	PUR.	WPM WIRE, L = 17 Ft.	1			Dia. 0.02" BeCu Wire	
102	PUR.	8-32 x 1/2 Socket Head Cap Screw	48			316 St.Steel, Diconited	
101	PUR.	#8 Washer	48			316 St.Steel	
8	7110-011 (SH. 3, ITEM 6)	WPM SUPPORT, OTHER SIDE ASM	1				
7	7102-039	WPM BLOCK	5				
6	7102-063 (SH. 3)	WPM TUBE 4 SUB-ASSEMBLY	1				
5	7102-063 (SH. 3)	WPM TUBE 3 SUB-ASSEMBLY	2				
4	7102-063 (SH. 2)	WPM TUBE 2 SUB-ASSEMBLY	2				
3	7102-063 (SH. 2)	WPM TUBE 1 SUB-ASSEMBLY	1				
2	7110-011 (SH. 2, ITEM 2)	WPM SUPPORT, WEIGHT SIDE ASM	1				
1	7102-063 (SH. 1)	WPM ASSEMBLY	X				

		ITEM		DWG. NO.		DESCRIPTION			G1		G2		G3		REMARKS		REV.	
									QUANTITY									
D		PRINT DISTR.		PLOT DATE: 7/13/2007 CAD FILE NAME: 7102-063.idw														
SH. NO. 1 OF 6		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>CORNELL UNIVERSITY</div><div>LEPP</div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div> <div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div>												
				ERL INJECTOR CRYOMODULE WIRE POSITION MONITOR ASSEMBLY														
REV.		CHECKED BY: VM		DRAWN BY RHE		DRAWN FOR M. Liepe		DATE 7/10/2007		SCALE		D		7102-063 SH. NO. 1 OF 6		REV.		
		APPROVED BY: EPC																

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.

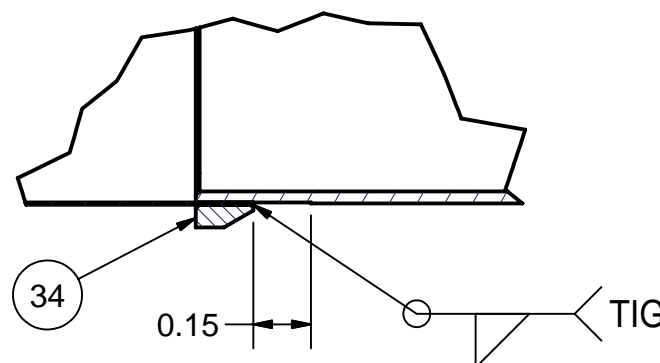


DETAIL A
SCALE 1 : 1

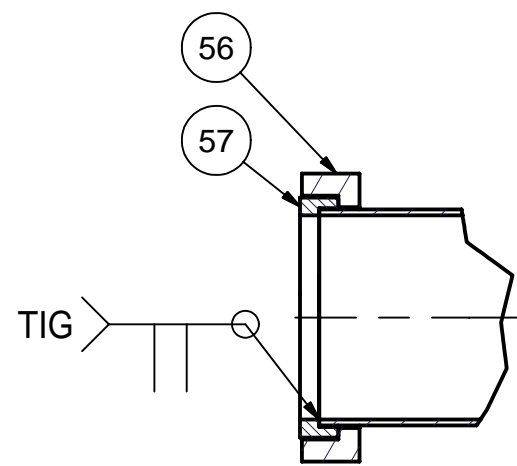
DETAIL B
SCALE 1:1

59	PUR.	1.12" ID x 1/46" OD x 0.006 W BELLOWS	2			MDC FB 6516	
57	7102-063 (SH. 6)	WPM ROTATABLE FLANGE END PIECE	1			316 ST. STEEL	
56	7102-063 (SH. 6)	WPM ROTATABLE FLANGE	1				
55	7102-063 (SH. 6)	WPM TUBE FLANGE	1				
34	7102-063 (SH. 5)	WPM BELLOWS RING	4				
29	7102-063 (SH. 4)	WPM 1-1/8" OD TUBE 2	1				
28	7102-063 (SH. 4)	WPM 1-1/8" OD TUBE 1	2				
3	7102-063 (SH. 2)	WPM TUBE 1 ASSEMBLY	X				

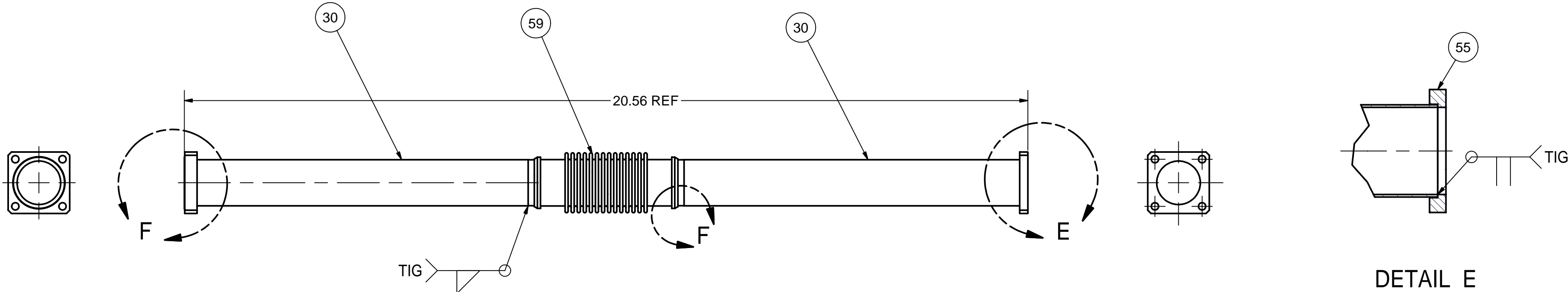
3 WPM TUBE 1 SUB-ASSEMBLY
FILE NAME: 7102-063
SHEET NO.: 2
DFT. SCALE: 1 : 2
MATERIAL:
QTY: 1 PER ASSEMBLY
NOTES:



DETAIL C
SCALE 2:1

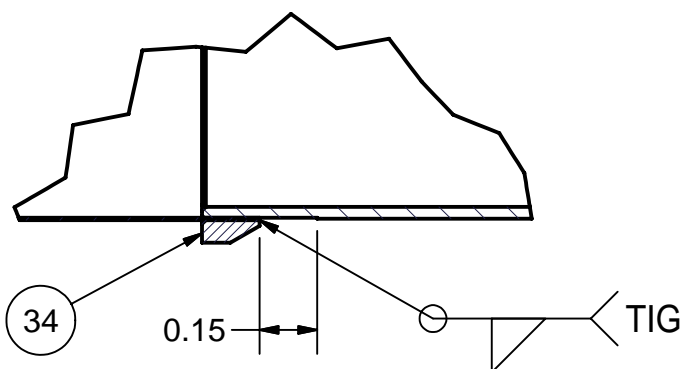


DETAIL F
SCALE 1 : 1



DETAIL E
SCALE 1 : 1

59	PUR.	1.12" ID x 1/46" OD x 0.006 W BELLOWS	1			MDC FB 6516	
57	7102-063 (SH. 6)	WPM ROTATABLE FLANGE END PIECE	1			316 ST. STEEL	
56	7102-063 (SH. 6)	WPM ROTATABLE FLANGE	1				
55	7102-063 (SH. 6)	WPM TUBE FLANGE	1				
34	7102-063 (SH. 5)	WPM BELLOWS RING	2				
30	7102-063 (SH. 4)	WPM 1-1/8" OD TUBE 3	2				
4	7102-063 (SH. 2)	WPM TUBE 2 SUB-ASSEMBLY	X				



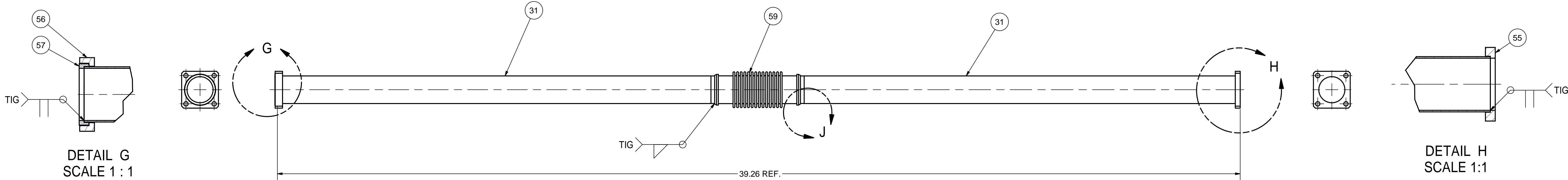
DETAIL F
SCALE 2:1

4 WPM TUBE 2 SUB-ASSEMBLY
FILE NAME: 7102-063
SHEET NO.: 2
DFT. SCALE: 1 : 2
MATERIAL:
QTY: 2 PER ASSEMBLY
NOTES:

Release of final PO version for Meyer Tool - July 13, 2007.

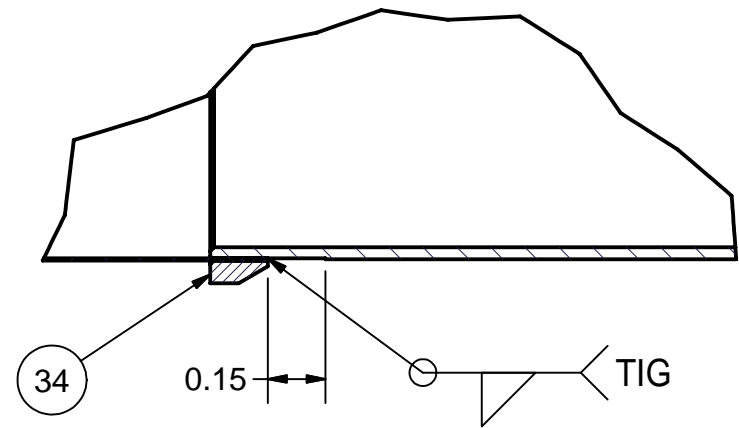
		ITEM	DWG. NO.		DESCRIPTION			G1	G2	G3	REMARKS	REV.
						QUANTITY						
D	PRINT DISTR.	PLOT DATE: 7/13/2007 CAD FILE NAME: 7102-063.idw										
	7102-063 SH. NO. 2 OF 6	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES ✓		<div><div><div>CORNELL UNIVERSITY</div><div></div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div></div>							
REV.			CHECKED BY: VM APPROVED BY: EPC		DRAWN BY RHE	DRAWN FOR M. Liepe	DATE 7/10/2007	SCALE	D	7102-063 SH. NO. 2 OF 6		REV.

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

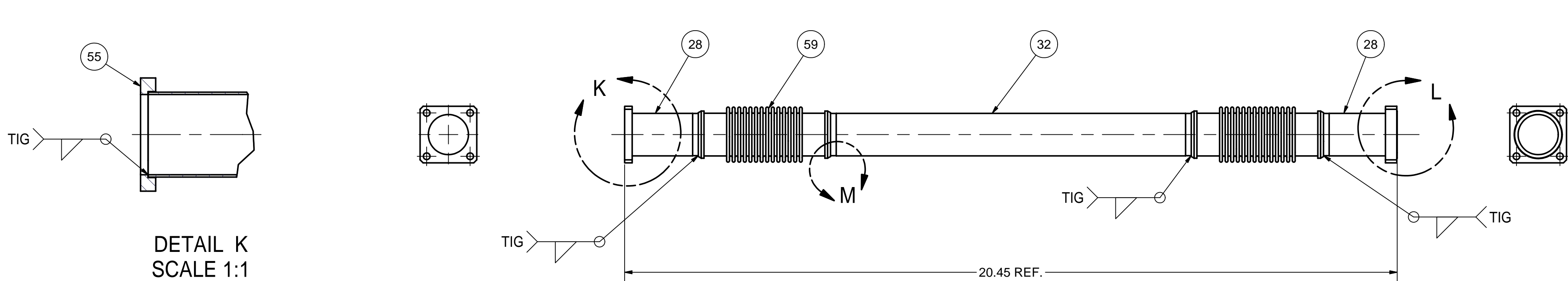


59	PUR.	1.12" ID x 1/46" OD x 0.006 W BELLOWS	1			MDC FB 6516 316 ST. STEEL	
57	7102-063 (SH. 6)	WPM ROTATABLE FLANGE END PIECE	1				
56	7102-063 (SH. 6)	WPM ROTATABLE FLANGE	1				
55	7102-063 (SH. 6)	WPM TUBE FLANGE	1				
34	7102-063 (SH. 5)	WPM BELLOWS RING	2				
31	7102-063 (SH. 5)	WPM 1-1/8" OD TUBE 4	2				
5	7102-063 (SH. 3)	WPM TUBE 3 SUB-ASSEMBLY	X				

5 WPM TUBE 3 SUB-ASSEMBLY
FILE NAME: 7102-063
SHEET NO.: 3
DFT. SCALE: 1 : 2
MATERIAL:
QTY: 2 PER ASSEMBLY
NOTES:

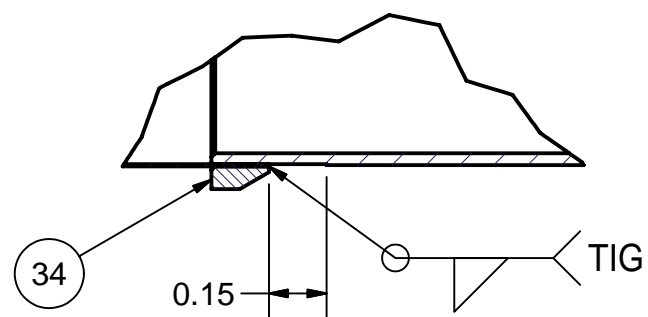


DETAIL J
SCALE 2 : 1

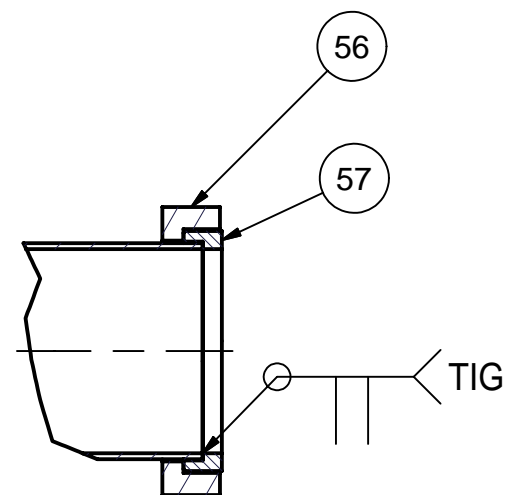


59	PUR.	1.12" ID x 1/46" OD x 0.006 W BELLOWS	2			MDC FB 6516 316 ST. STEEL	
57	7102-063 (SH. 6)	WPM ROTATABLE FLANGE END PIECE	1				
56	7102-063 (SH. 6)	WPM ROTATABLE FLANGE	1				
55	7102-063 (SH. 6)	WPM TUBE FLANGE	1				
34	7102-063 (SH. 5)	WPM BELLOWS RING	4				
32	7102-063 (SH. 5)	WPM 1-1/8" OD TUBE 5	1				
28	7102-063 (SH. 4)	WPM 1-1/8" OD TUBE 1	2				
6	7102-063 (SH. 3)	WPM TUBE 4 SUB-ASSEMBLY	X				

6 WPM TUBE 4 SUB-ASSEMBLY
FILE NAME: 7102-063
SHEET NO.: 3
DFT. SCALE: 1 : 2
MATERIAL:
QTY: 1 PER ASSEMBLY
NOTES:






DETAIL M
SCALE 2:1

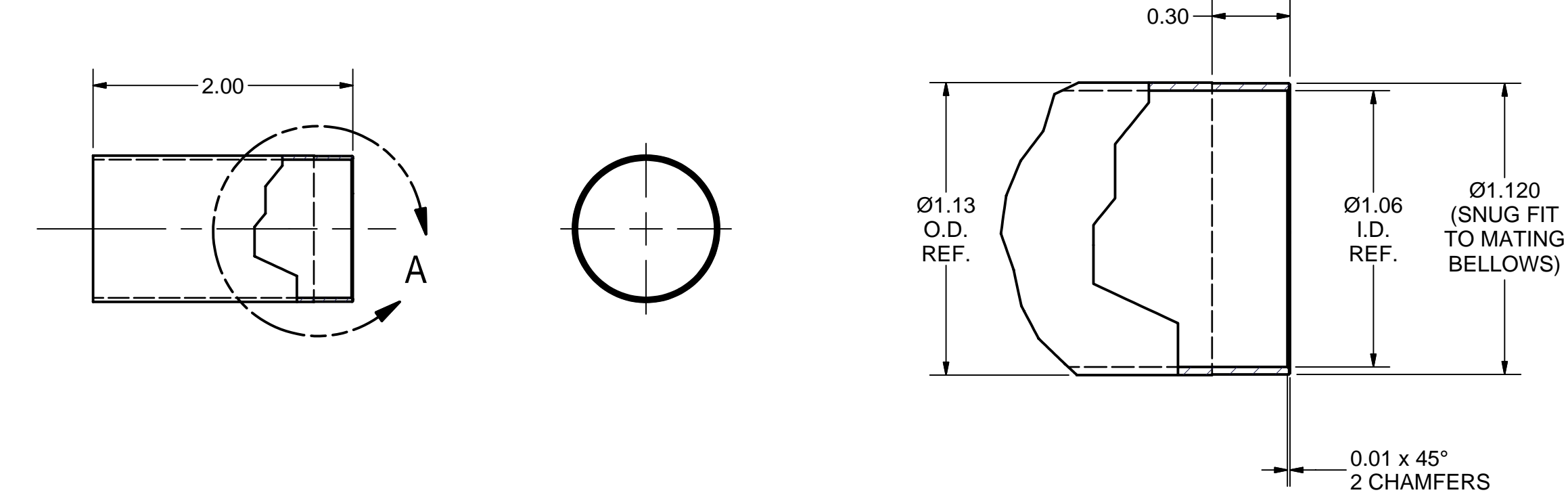


DETAIL L
SCALE 1 : 1

Release of final PO version for Meyer Tool - July 13, 2007.

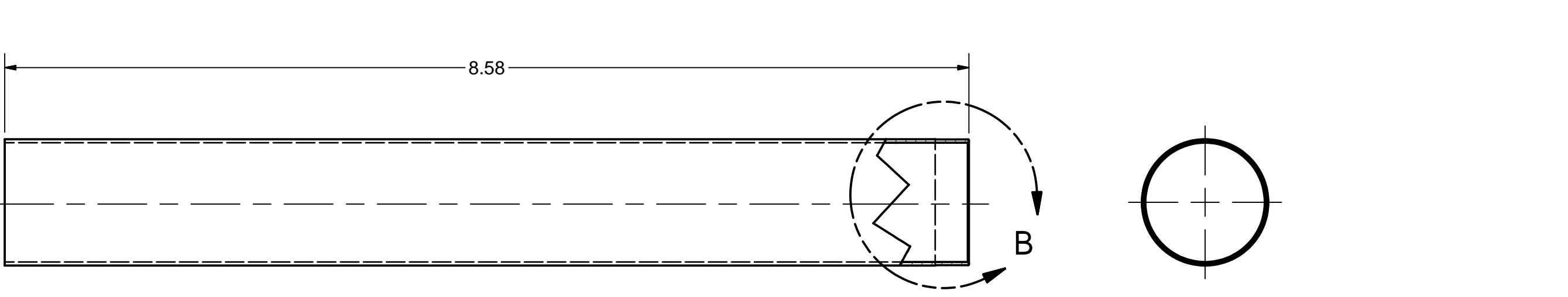
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					QUANTITY				
D	PRINT DISTR.	PLOT DATE: 7/13/2007 CAD FILE NAME: 7102-063.idw							
	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 		<div><div>LEPP</div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div> <div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div> <div>ERL INJECTOR CRYOMODULE WIRE POSITION MONITOR ASSEMBLY WPM TUBE ASSEMBLIES DETAIL</div>					
7102-063 SH. NO. 3 OF 6	REV.	CHECKED BY: VM	DRAWN BY: RHE	DRAWN FOR: M. Liepe	DATE: 7/10/2007	SCALE:	D	7102-063	REV.
		APPROVED BY: EPC						SH. NO. 3 OF 6	

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



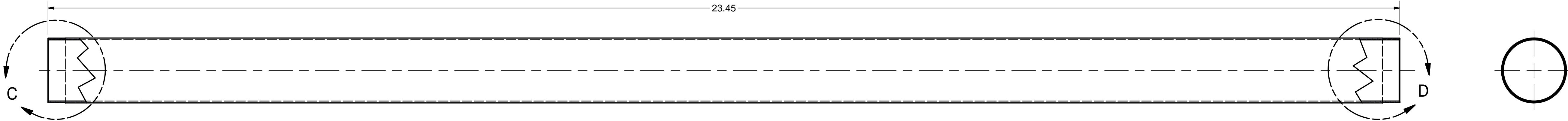
DETAIL A
SCALE 2 : 1

28 WPM 1-1/8" OD TUBE 1
FILE NAME: 7102-063
SHEET NO.: 4
DFT. SCALE: 1 : 1
MATERIAL: 1-1/8"OD x 0.031"W 316L STAINLESS STEEL TUBE
QTY: 4 PER ASSEMBLY
NOTES:

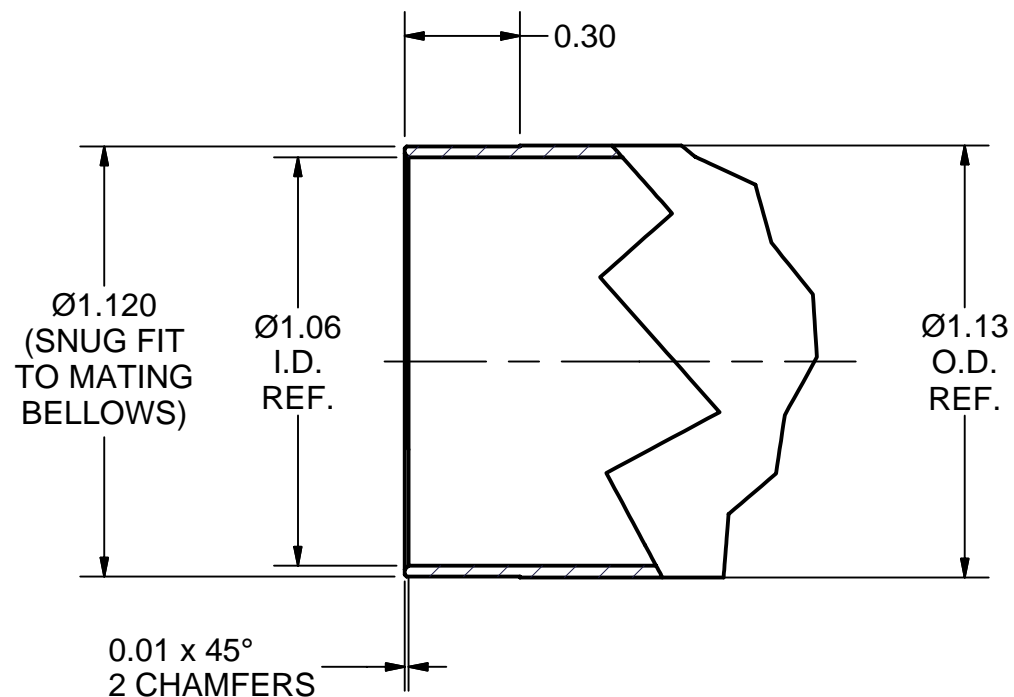


DETAIL B
SCALE 2 : 1

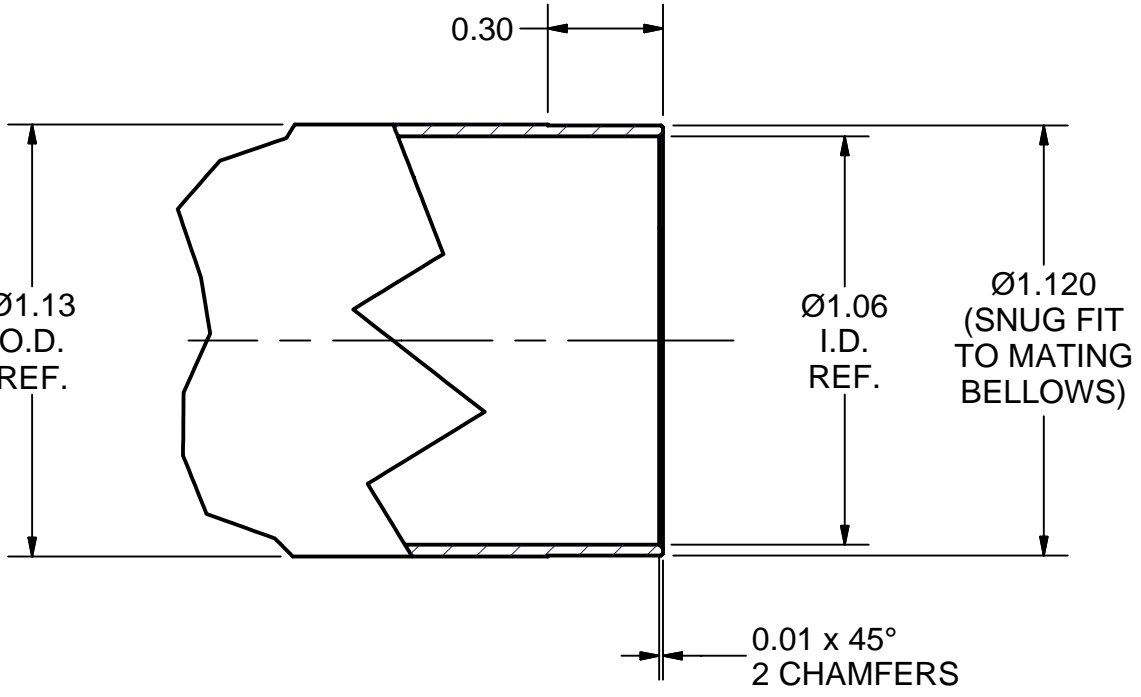
30 WPM 1-1/8" OD TUBE 3
FILE NAME: 7102-063
SHEET NO.: 4
DFT. SCALE: 1 : 1
MATERIAL: 1-1/8"OD x 0.031"W 316L STAINLESS STEEL TUBE
QTY: 4 PER ASSEMBLY
NOTES:



DETAIL C
SCALE 2 : 1


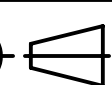



29 WPM 1-1/8" OD TUBE 2
FILE NAME: 7102-063
SHEET NO.: 4
DFT. SCALE: 1 : 1
MATERIAL: 1-1/8"OD x 0.031"W 316L STAINLESS STEEL TUBE
QTY: 1 PER ASSEMBLY
NOTES:



DETAIL D
SCALE 2 : 1

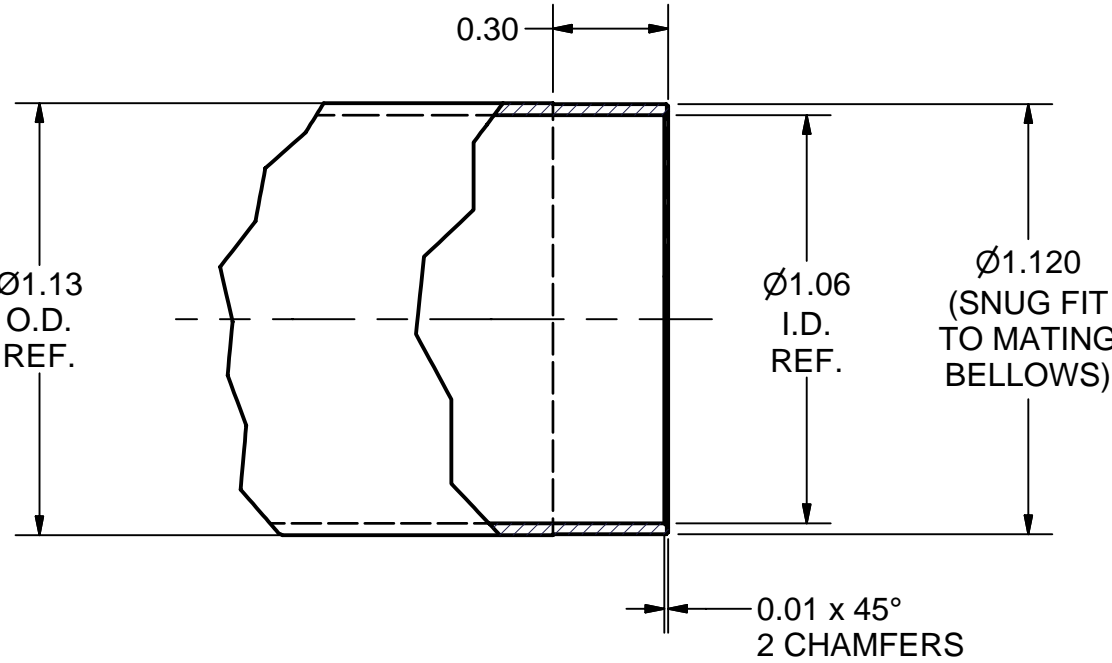
Release of final PO version for Meyer Tool - July 13, 2007.

 		DWG. NO.		DESCRIPTION			G1G2G3			REMARKS		REV.		
							QUANTITY							
D	PRINT DISTR.	PLOT DATE: 7/13/2007 CAD FILE NAME: 7102-063.idw												
	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 WIRE POSITION MONITOR ASSEMBLY WPM TUBES DETAILS</div>										
	7102-063 SH. NO. 4 OF 6	CHECKED BY: VM		DRAWN BY RHE		DRAWN FOR M. Liepe		DATE 7/10/2007		SCALE D		7102-063 SH. NO. 4 OF 6		REV.
		APPROVED BY: EPC												

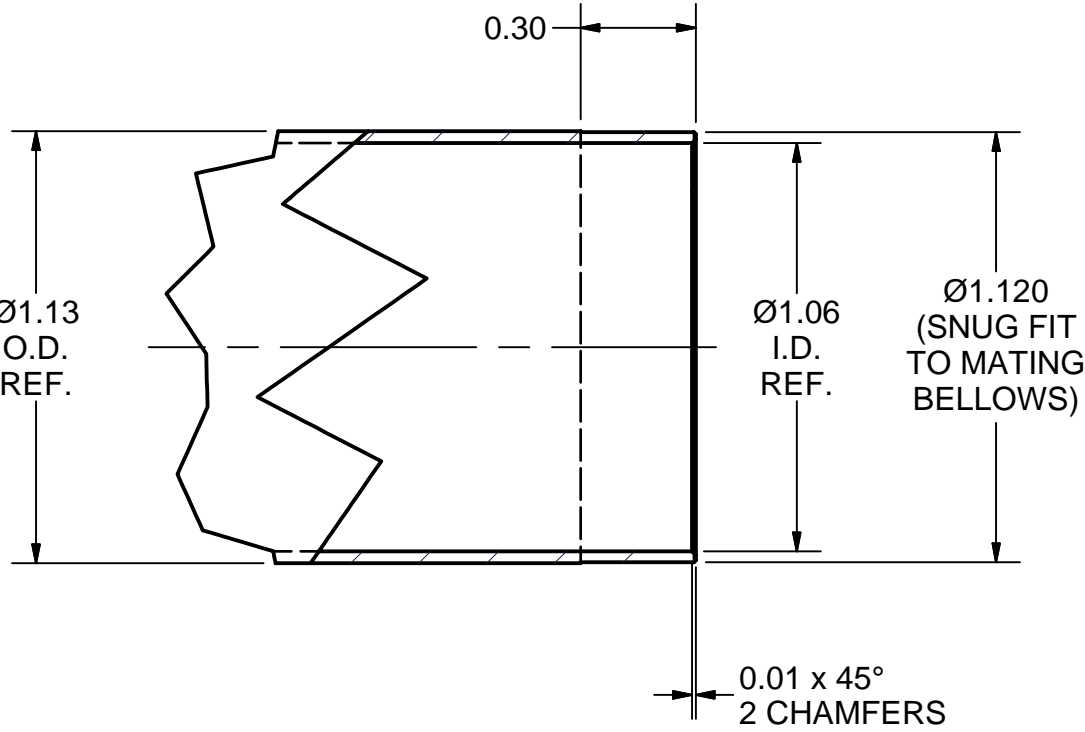
CORNELL UNIVERSITY
Floyd R. Newman Laboratory
Ithaca, NY 14853

ERL INJECTOR CRYOMODULE
WIRE POSITION MONITOR ASSEMBLY
WPM TUBES DETAILS

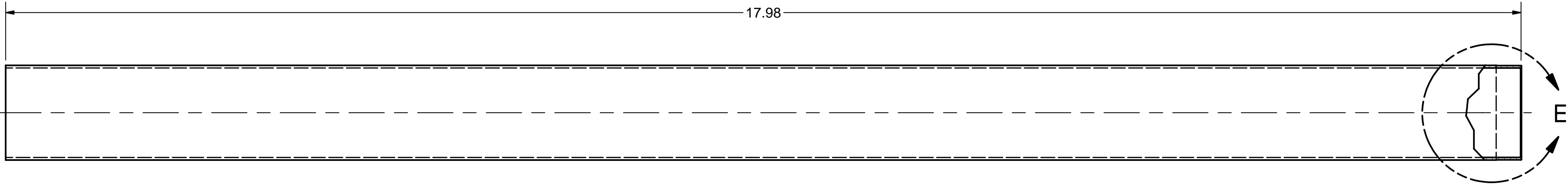
REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



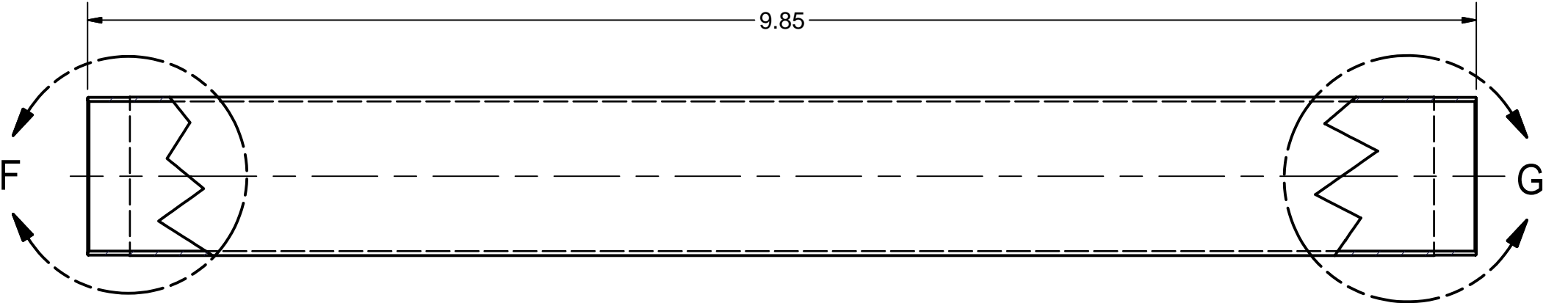
DETAIL E
SCALE 2 : 1



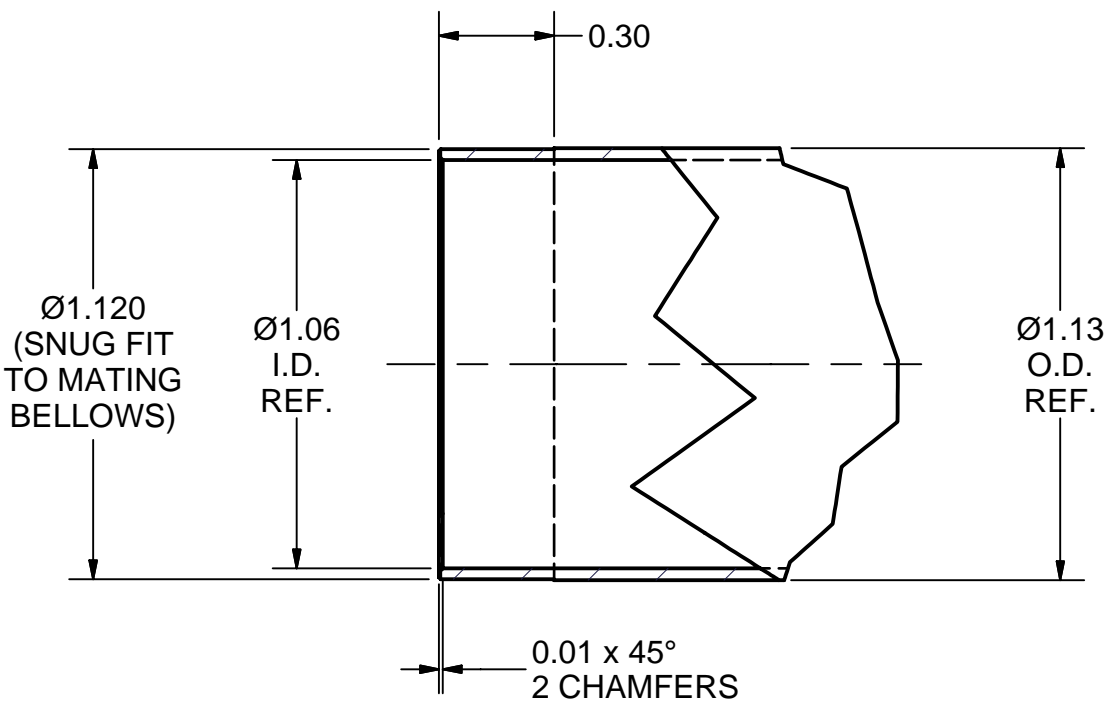
DETAIL G
SCALE 2 : 1



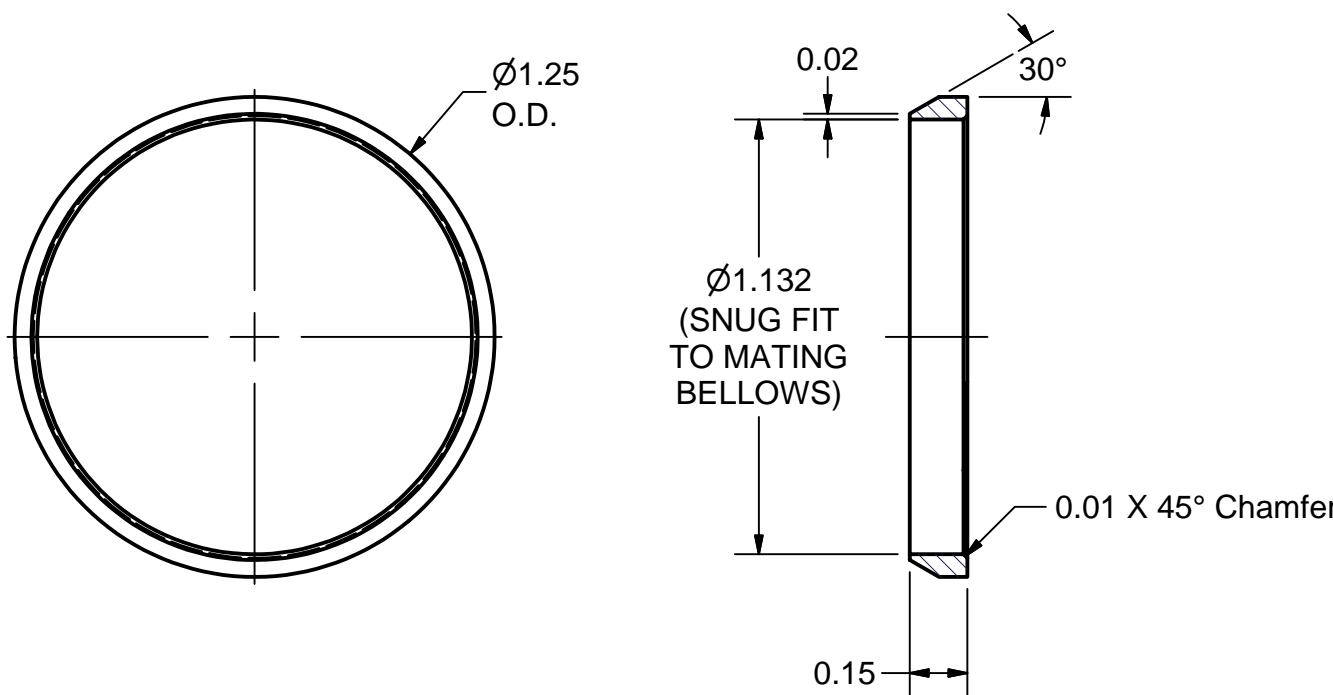
31 WPM 1-1/8" OD TUBE 4
FILE NAME: 7102-063
SHEET NO.: 5
DFT. SCALE: 1 : 1
MATERIAL: 1-1/8"OD x 0.031"W 316L STAINLESS STEEL TUBE
QTY: 4 PER ASSEMBLY
NOTES:



32 WPM 1-1/8" OD TUBE 5
FILE NAME: 7102-063
SHEET NO.: 5
DFT. SCALE: 1 : 1
MATERIAL: 1-1/8"OD x 0.031"W 316L STAINLESS STEEL TUBE
QTY: 1 PER ASSEMBLY
NOTES:








DETAIL F
SCALE 2 : 1

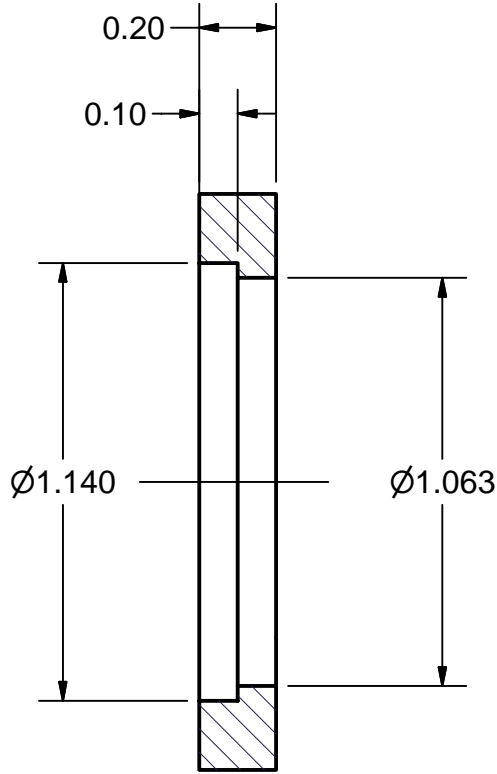
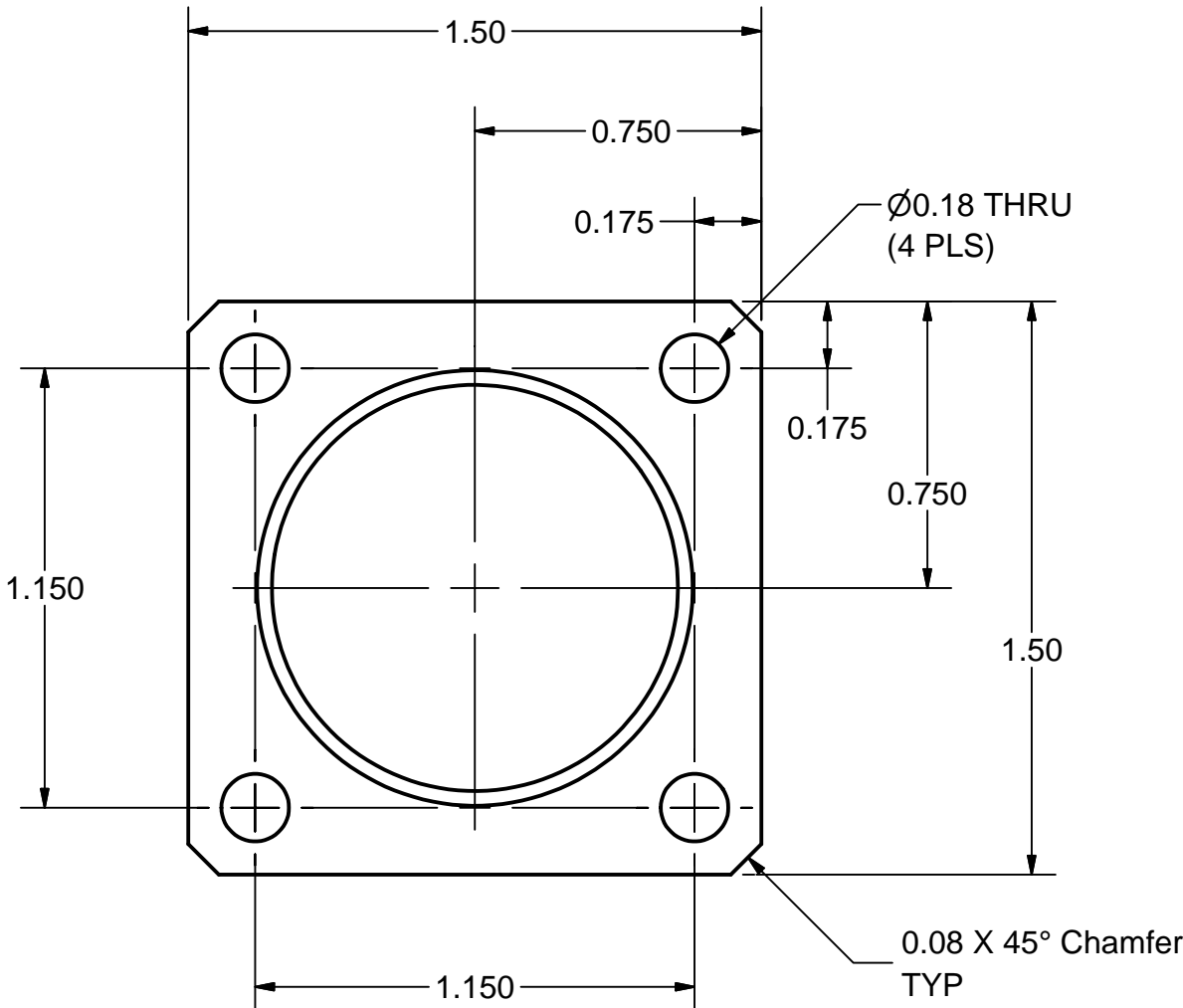


34 WPM BELLOWS RING
FILE NAME: 7102-063
SHEET NO.: 5
DFT. SCALE: 2 : 1
MATERIAL: 316L STAINLESS STEEL
QTY: 16 PER ASSEMBLY
NOTES:

Release of final PO version for Meyer Tool - July 13, 2007.

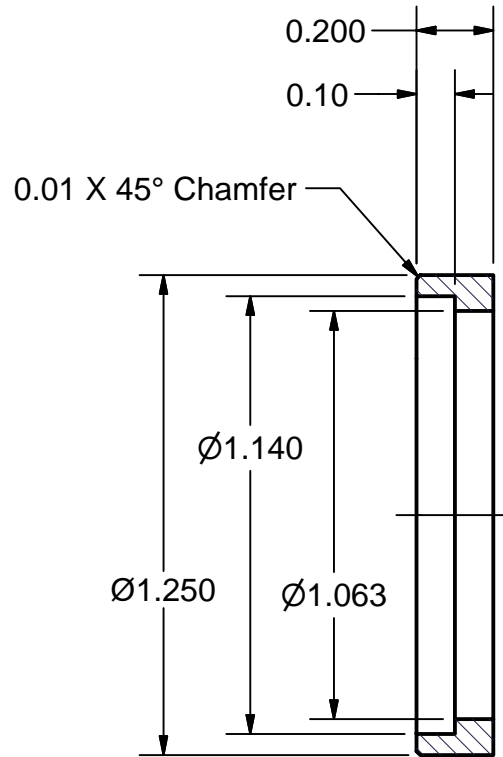
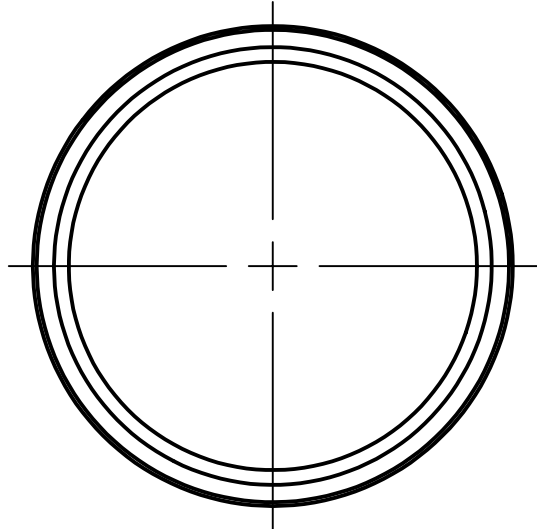
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					QUANTITY					
	PRINT DISTR.	PLOT DATE: 7/13/2007 CAD FILE NAME: 7102-063.idw								
	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 		<div><div> LEPP</div><div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div> <div>ERL INJECTOR CRYOMODULE WIRE POSITION MONITOR ASSEMBLY WPM TUBES & SPACER DETAILS</div>						
SH. NO. 5 OF 6	7102-063	CHECKED BY: VM		DRAWN BY: RHE	DRAWN FOR M. Liepe	DATE 7/10/2007	SCALE		7102-063	REV.
	REV.	APPROVED BY: EPC		SH. NO. 5 OF 6						

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.



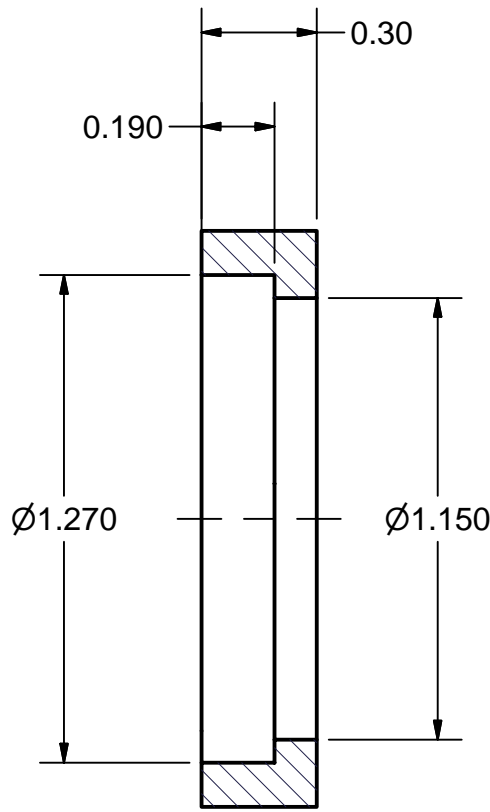
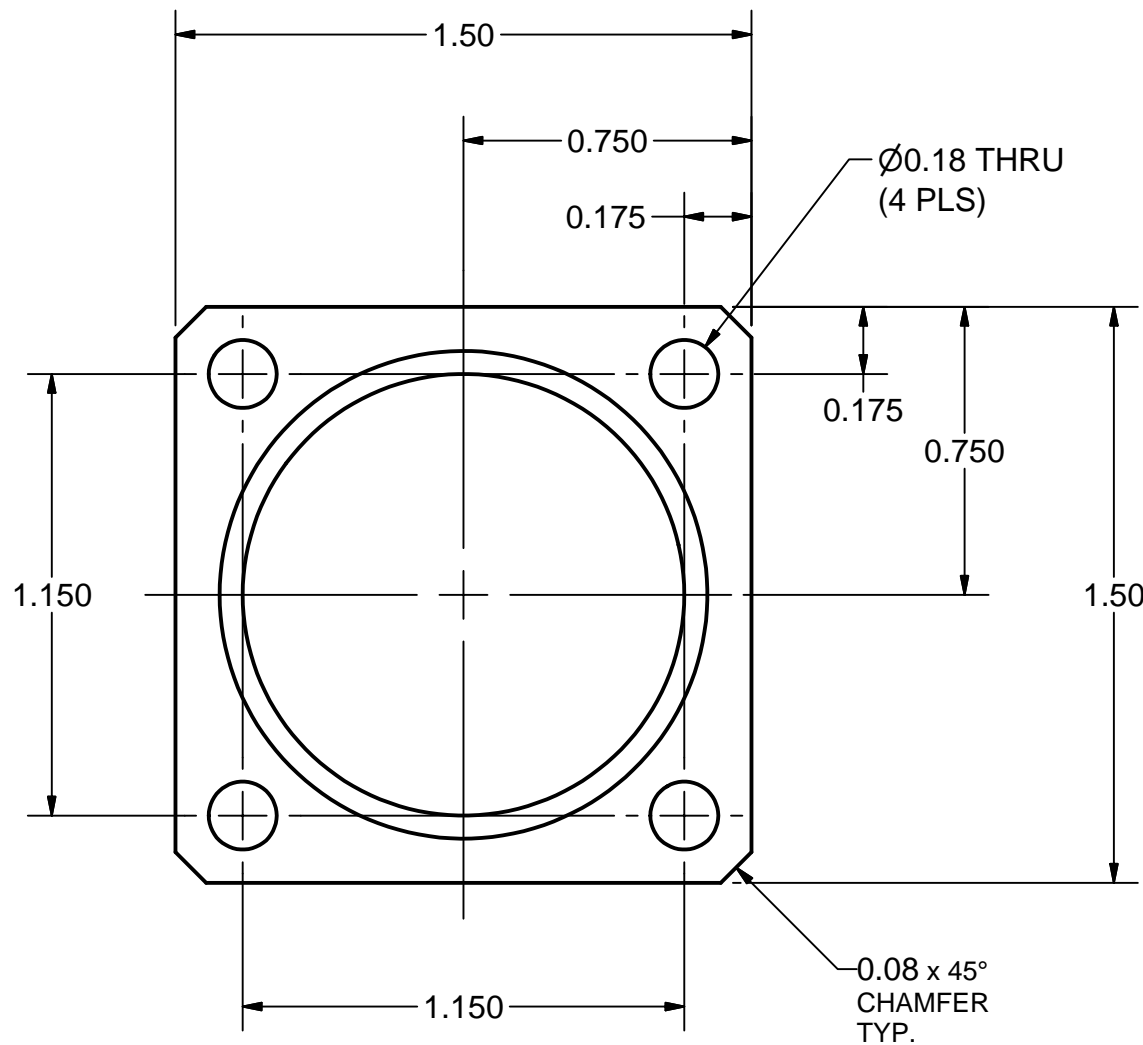
55 WPM TUBE FLANGE

FILE NAME: 7102-063
SHEET NO.: 6
DFT. SCALE: 2 : 1
MATERIAL: 316L STAINLESS STEEL
QTY: 6 PER ASSEMBLY
NOTES:



57 WPM ROTATABLE FLANGE END PIECE

FILE NAME: 7102-063
SHEET NO.: 6
DFT. SCALE: 2 : 1
MATERIAL: 316L STAINLESS STEEL
QTY: 6 PER ASSEMBLY
NOTES:



56 WPM ROTATABLE FLANGE

FILE NAME: 7102-063
SHEET NO.: 6
DFT. SCALE: 2 : 1
MATERIAL: 316L STAINLESS STEEL
QTY: 6 PER ASSEMBLY
NOTES:

Release of final PO version for Meyer Tool - July 13, 2007.

FOR MACHINING LUBRICANT USE ONLY ALKALINE DETERGENT LUBRICANT CIMSTAR 40 OR EQUIVALENT APPROVED BY CORNELL LEPP		ITEM		DWG. NO.		DESCRIPTION		G1 G2 G3		REMARKS		REV.	
TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION		PRINT DISTR.		PLOT DATE: 7/13/2007 CAD FILE NAME: 7102-063.idw		UNLESS OTHERWISE SPECIFIED:		QUANTITY		CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853		REV.	
DRAFTING (O'Connel):		D		CR-1		DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES CS/		ERL INJECTOR CRYOMODULE WIRE POSITION MONITOR ASSEMBLY WPM FLANGE & WEIGHT DETAILS		CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853		REV.	
MACHINE SHOP (Kaminski):		7102-063		SH. NO. 6 OF 6		CHECKED BY: VM		DRAWN BY		DRAWN FOR		DATE	
CHEMISTRY (Conklin):		REV.		3		APPROVED BY: EPC		RHE		M. Liepe		7/10/2007	
ELECTRONICS SHOP (Barley):								SCALE		D		7102-063	
FURNACE BRAZING (Sherwood):												SH. NO. 6 OF 6	
BEAM WELDING (Sears):													
WELDING OTHER (Gallagher):													
UTILITIES INTEGRATION (Gallagher):													
STOCKROOMS (Lockwood):													