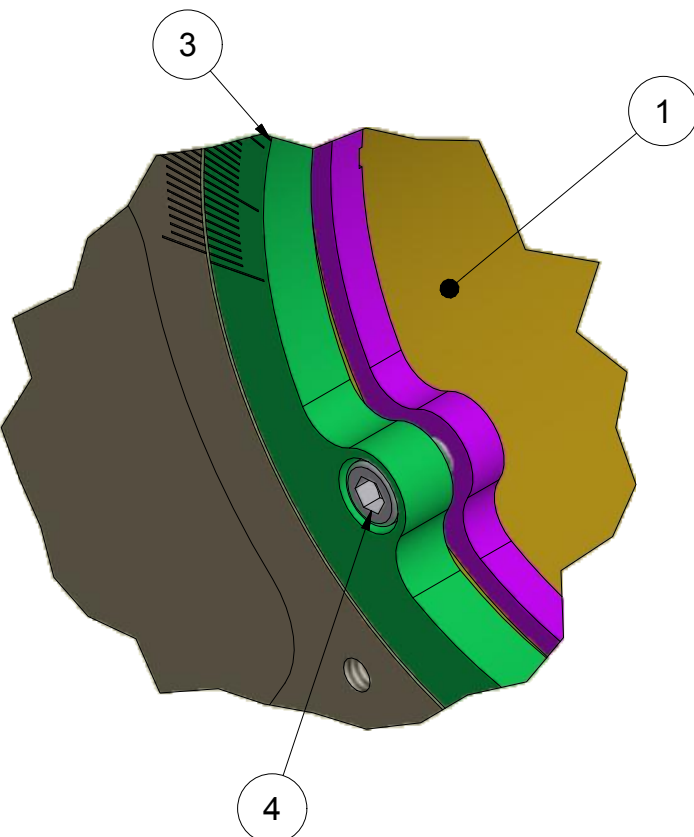
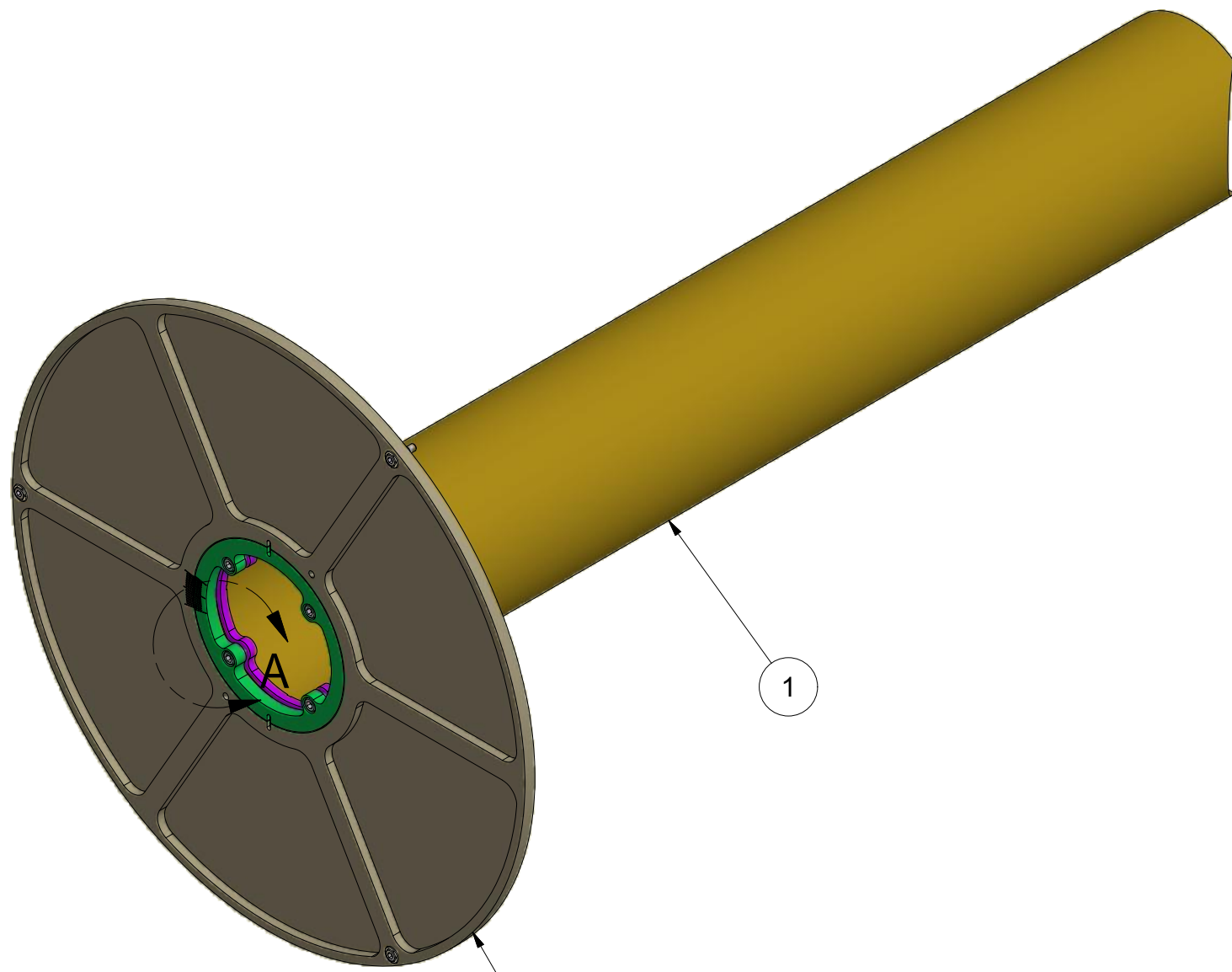
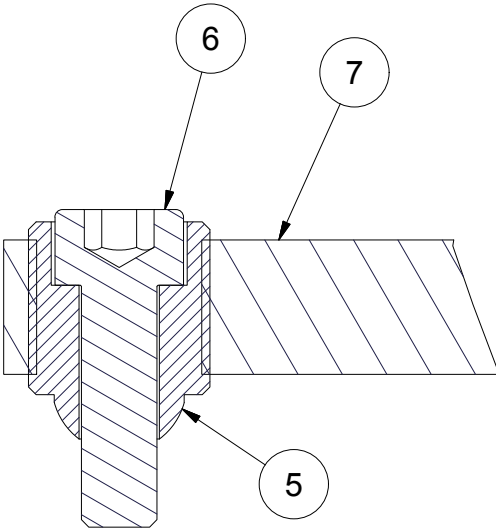


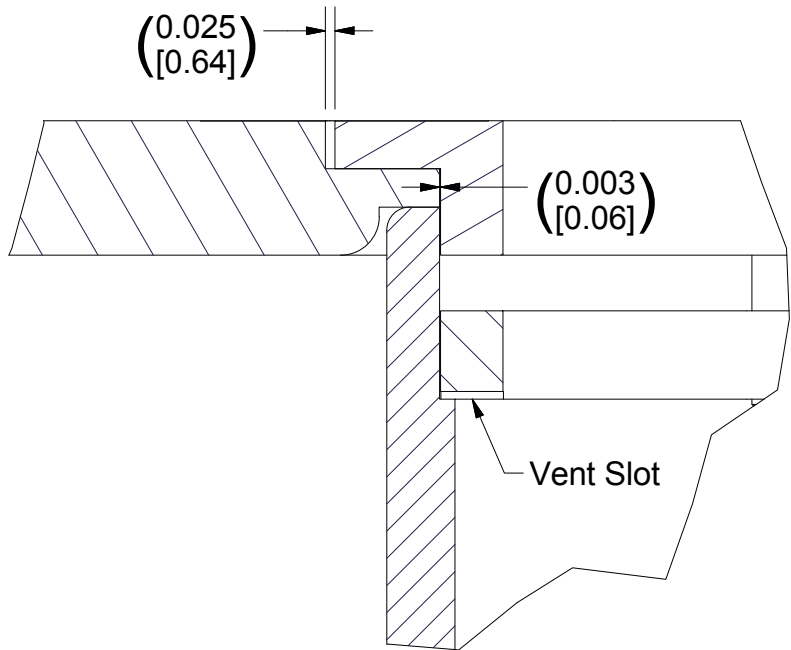
REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A	Mult.	Added As Built Assy (AD) and Item 19 to BOM.	2/22/13	KWS
B	Mult.	Hold Down Screw Now M5	9/20/13	KWS



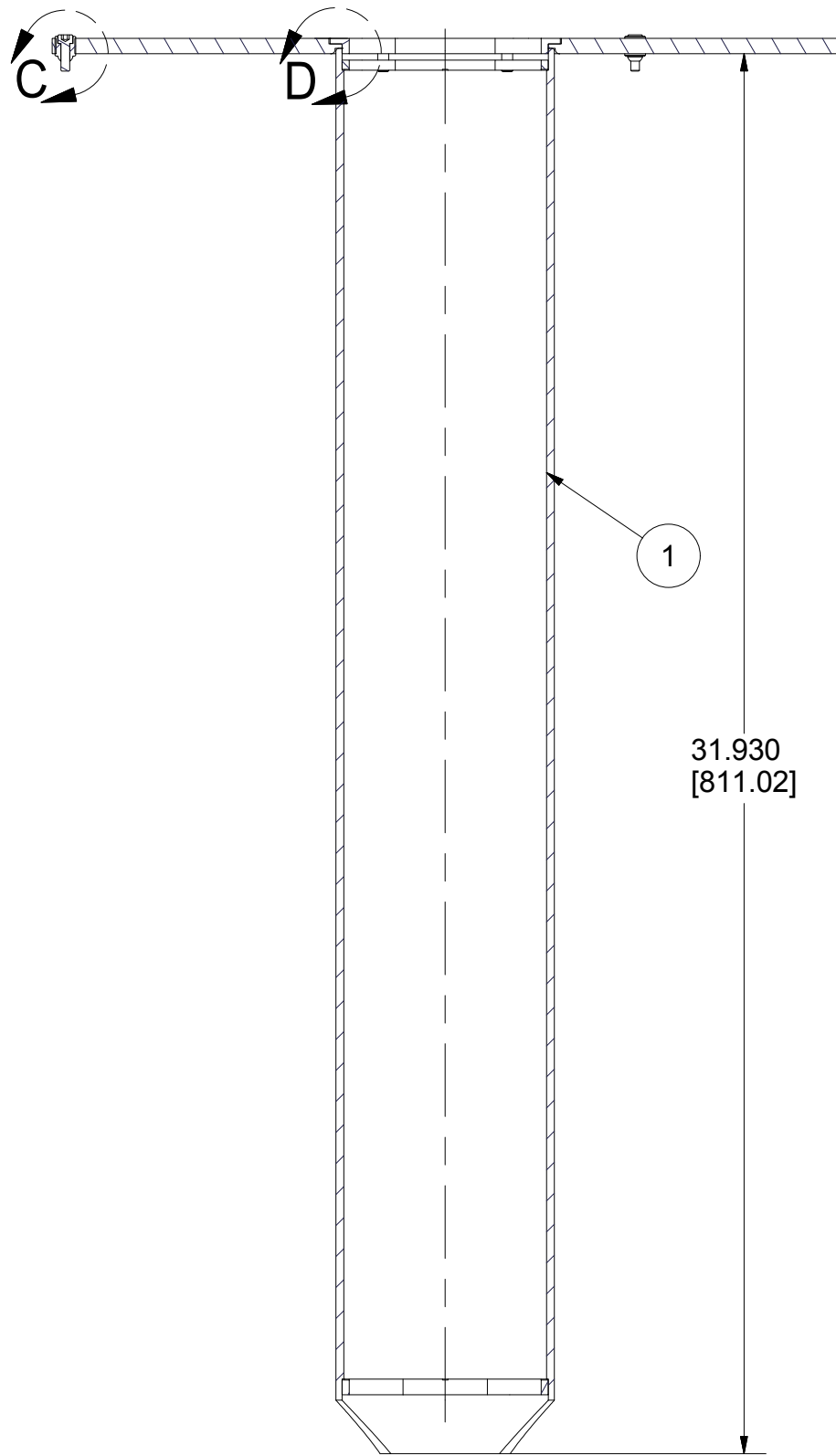
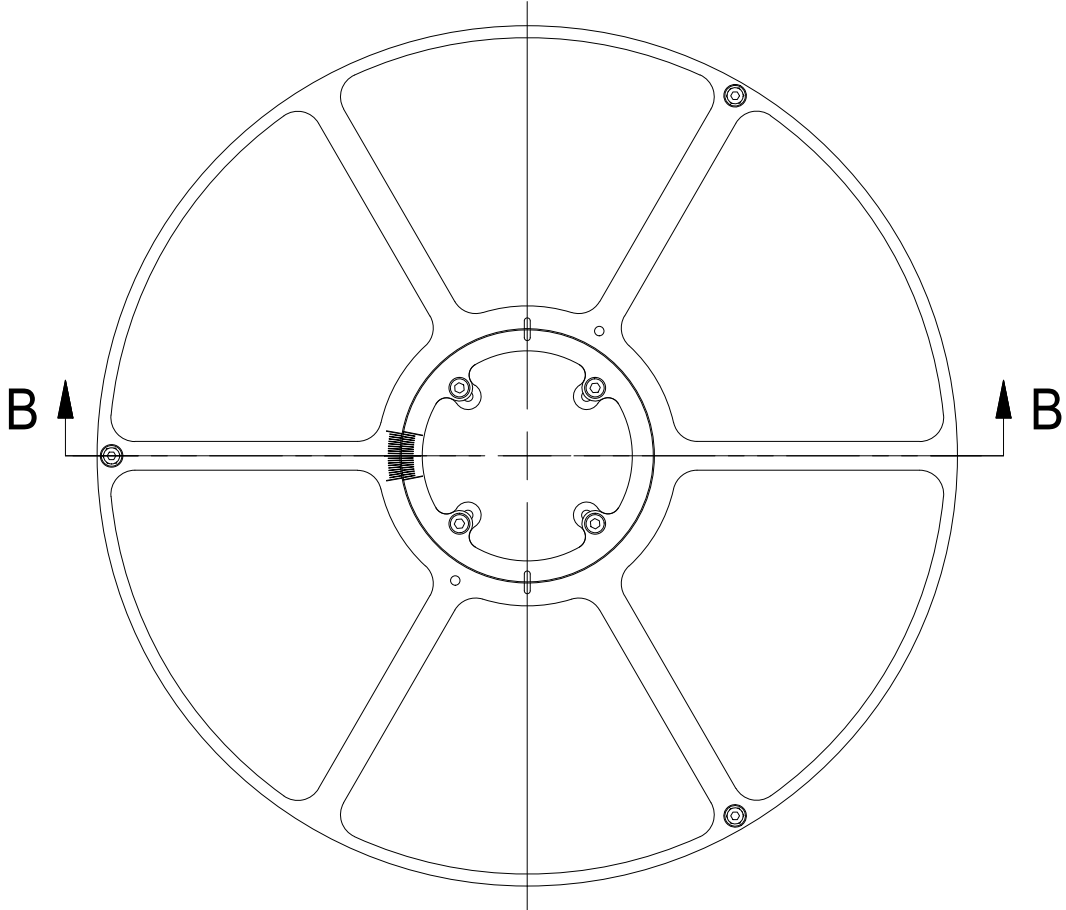
DETAIL A
SCALE 1 : 1



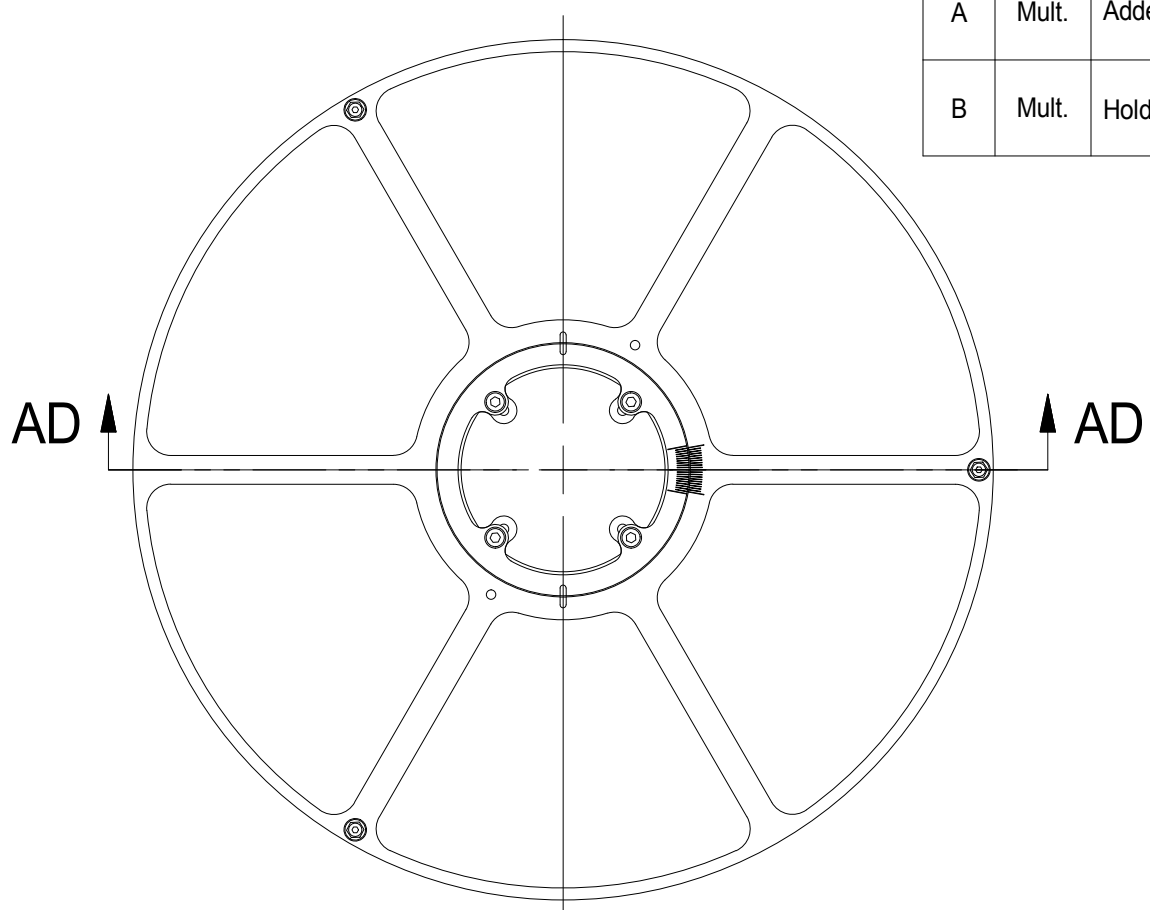
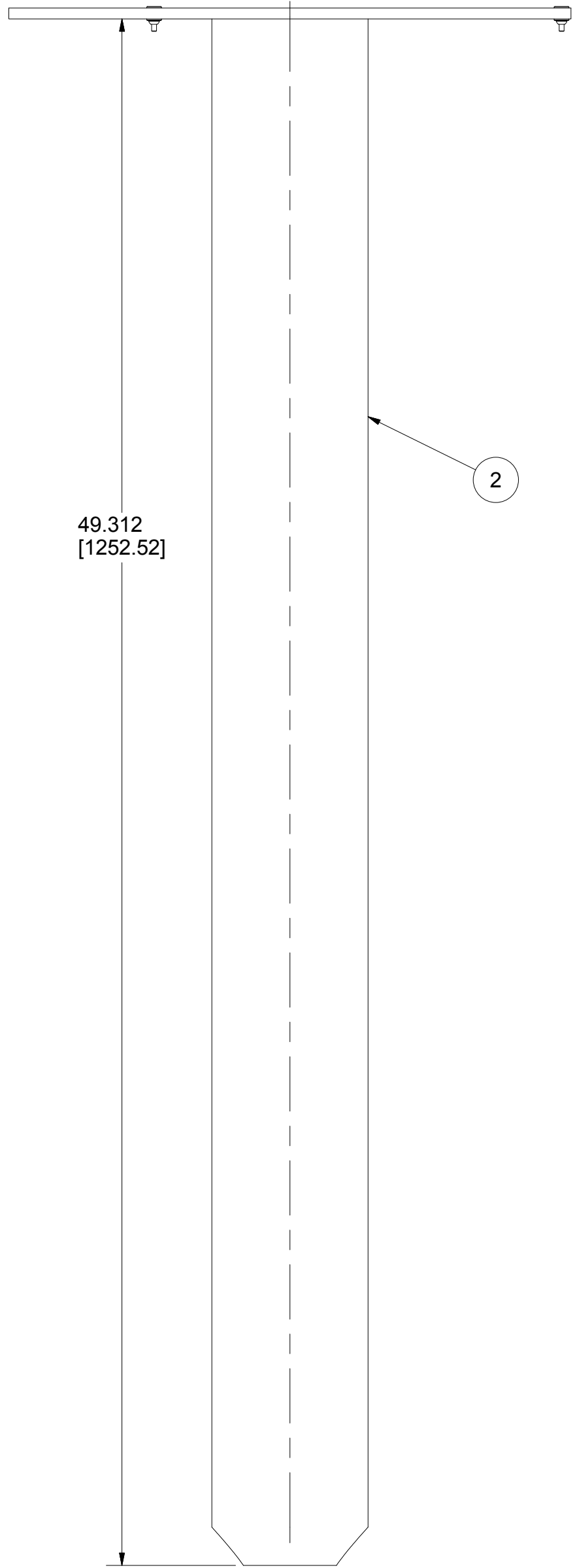
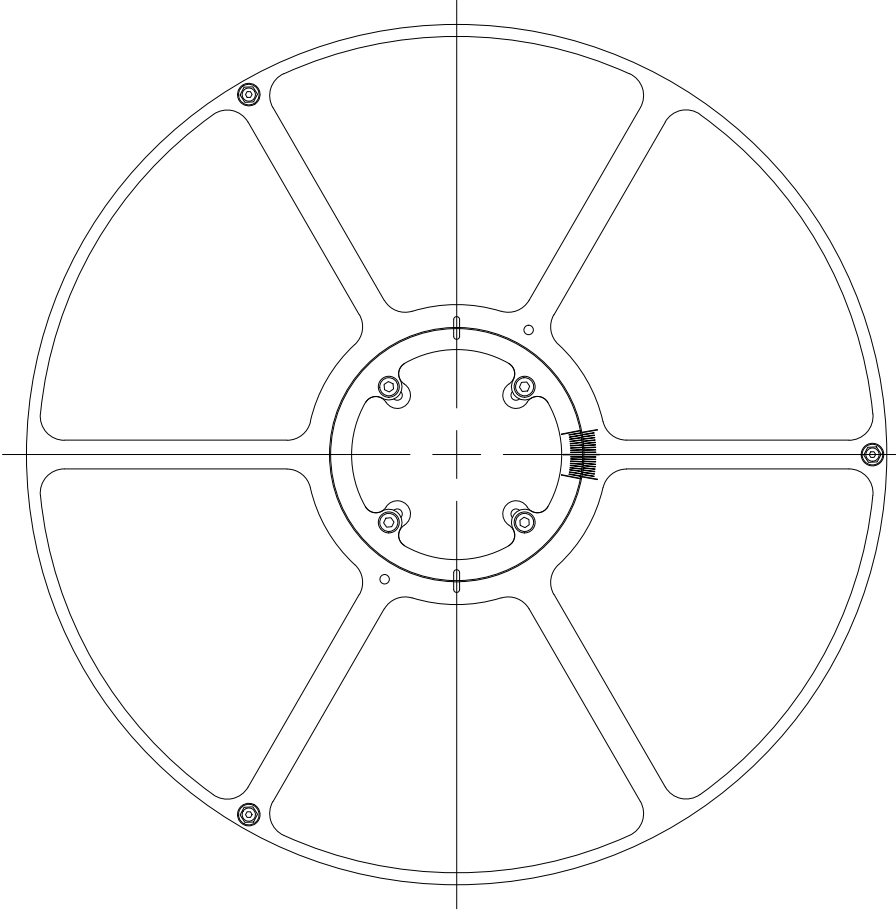
DETAIL C
SCALE 2 : 1



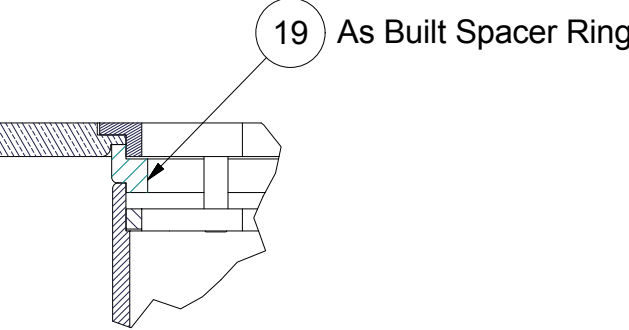
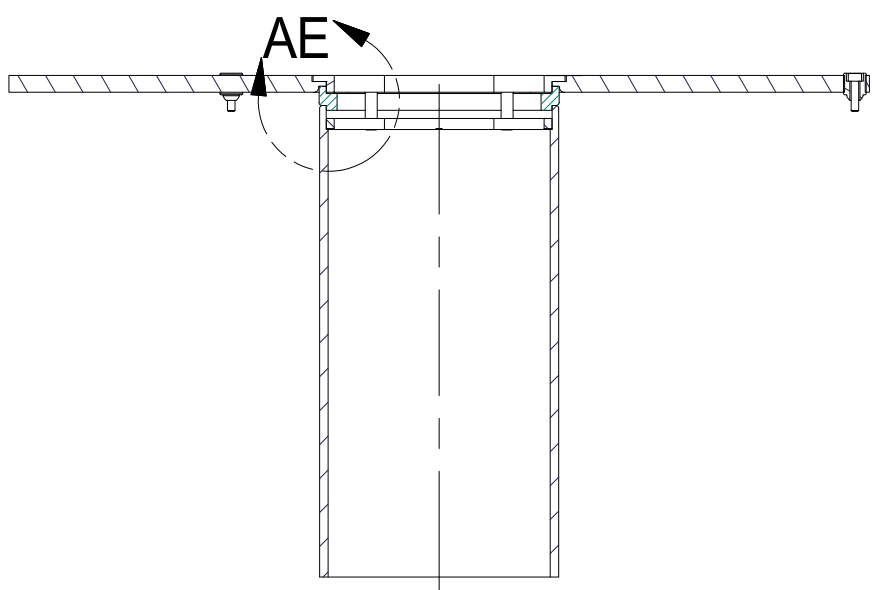
DETAIL D
SCALE 2 : 1



SECTION B-B
SCALE 1 / 4






SECTION AD-AD
SCALE 1 / 4



DETAIL AE
SCALE 1 / 2

19	7101-109 Sh. 13	As Built Spacer Ring	1					
7	7101-109 Sh. 4	Stalk Support Plate	1					
6	Purchased	SHCS - M5x0.8 x 16	3					
5	7101-109 Sh. 10	Adjuster Screw Ball End	3					
4	Purchased	SHCS 1/4-28 x 1/2	4					
3	7101-109 Sh. 5	Stalk Locking Ring	1					
2	7101-109 Sh. 3	Long Stalk Assy	1				Alternate	
1	7101-109 Sh. 2	Short Stalk Assy	1					

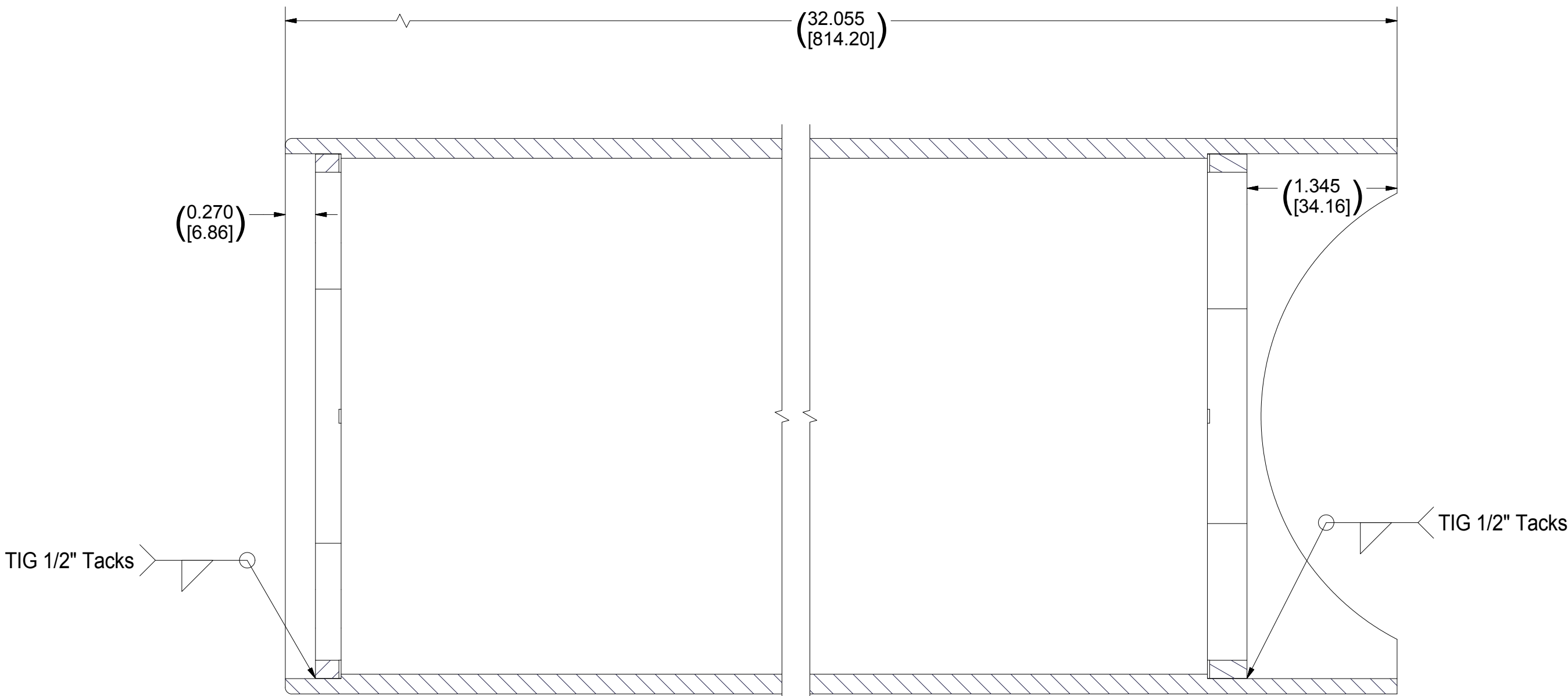
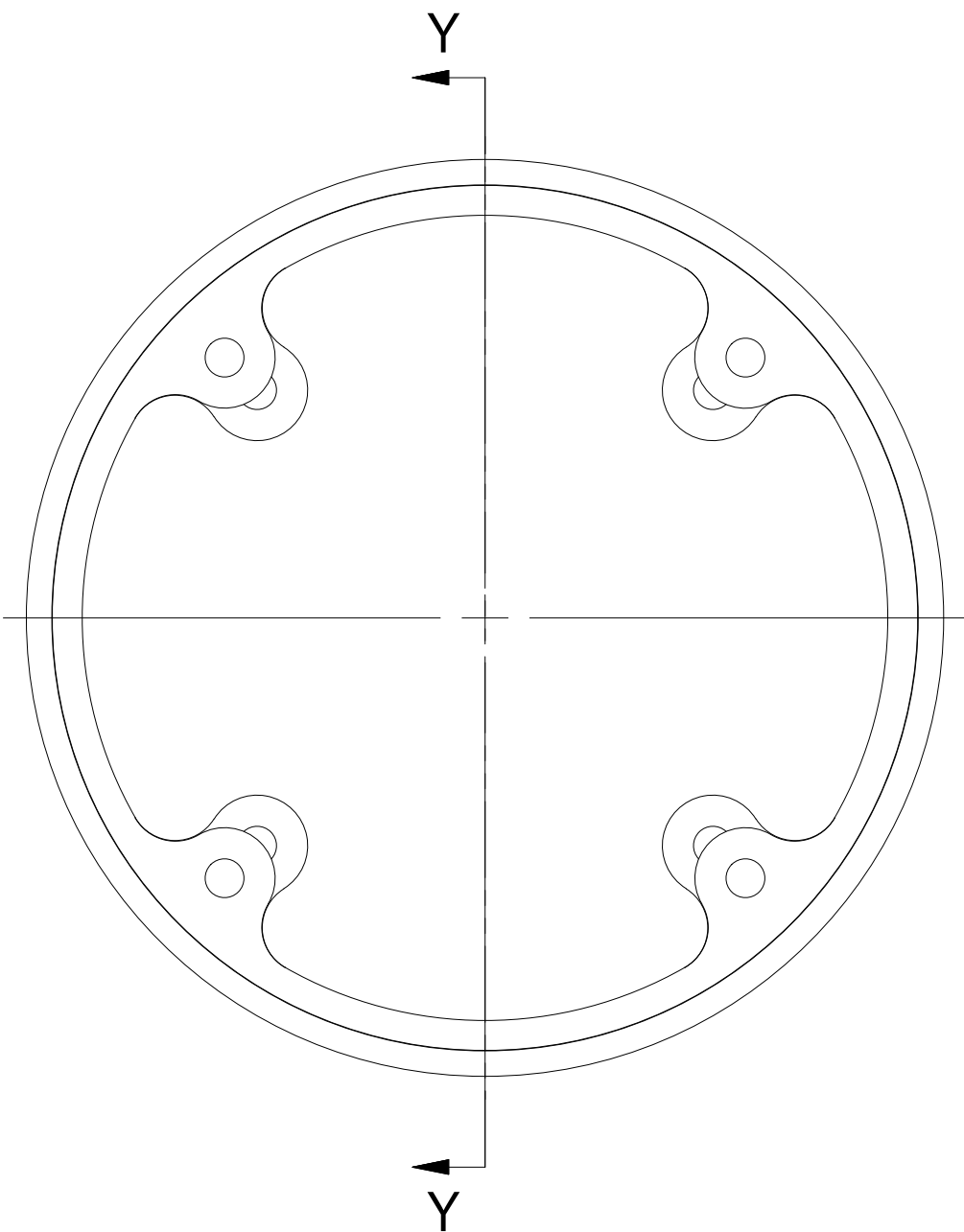
		ITEM		DWG. NO.		DESCRIPTION		G1	G2	G3	REMARKS		REV.	
								QUANTITY						
D	PRINT DISTR.	PLOT DATE: 4/29/2014 CAD FILE NAME: 7101-109.idw												
	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: 0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 		<div><div> LEPP</div><div>LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div></div> <div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div>										
7101-109 SH. NO. 1 OF 14		Mk. 2 High Voltage Support Stalk												
B	REV.	CHECKED BY: TIO		DRAWN BY KWS		DRAWN FOR KWS		DATE 7/21/2010		SCALE		D	7101-109 SH. NO. 1 OF 14	REV. B
	APPROVED BY: KWS													



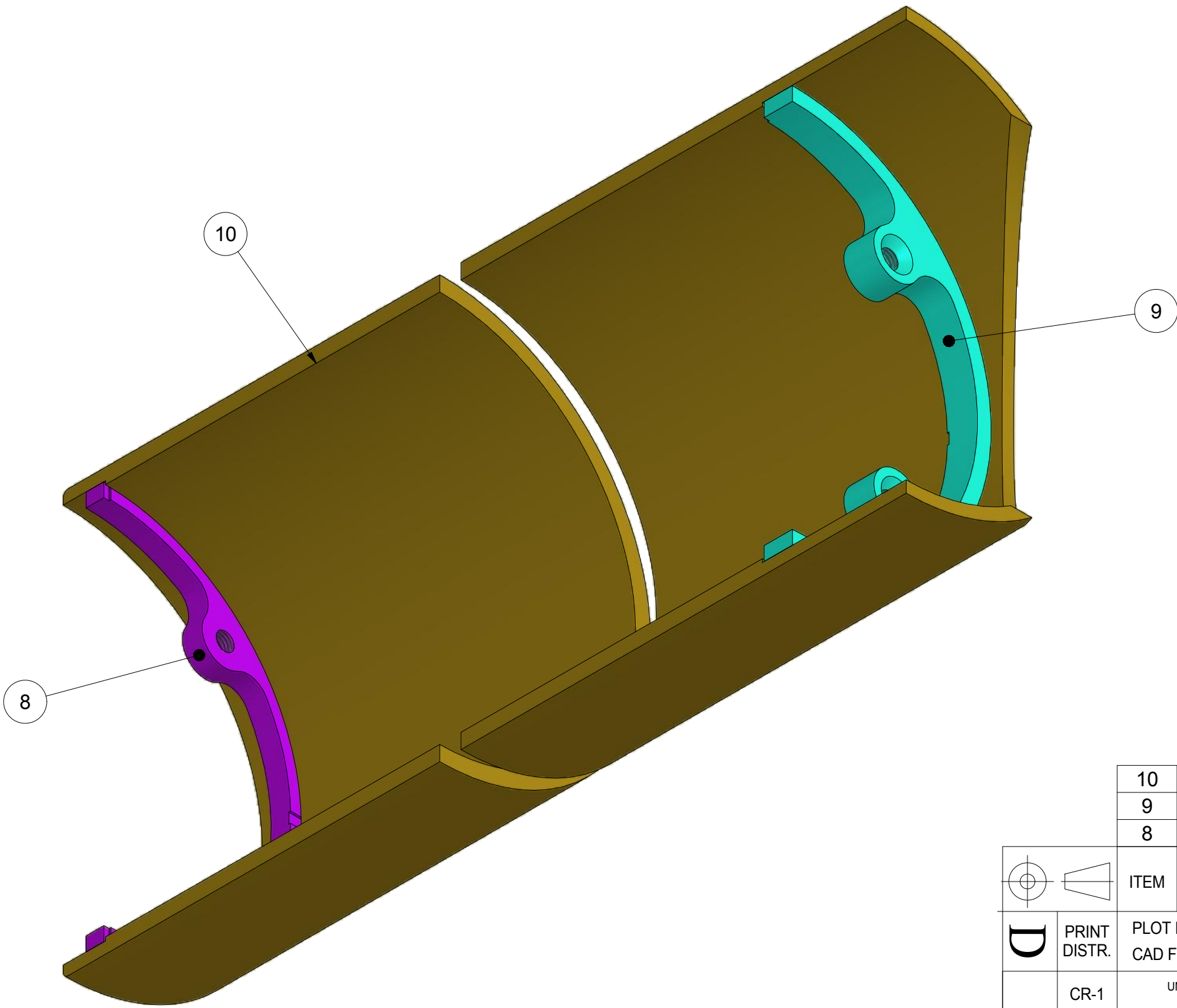
CORNELL UNIVERSITY
Floyd R. Newman Laboratory
Ithaca, NY 14853

Mk. 2 High Voltage Support Stalk

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A	Mult.	Modified Wall Thickness, and Bottom Flange	10/29/10	KWS





SECTION Y-Y
SCALE 1 : 1

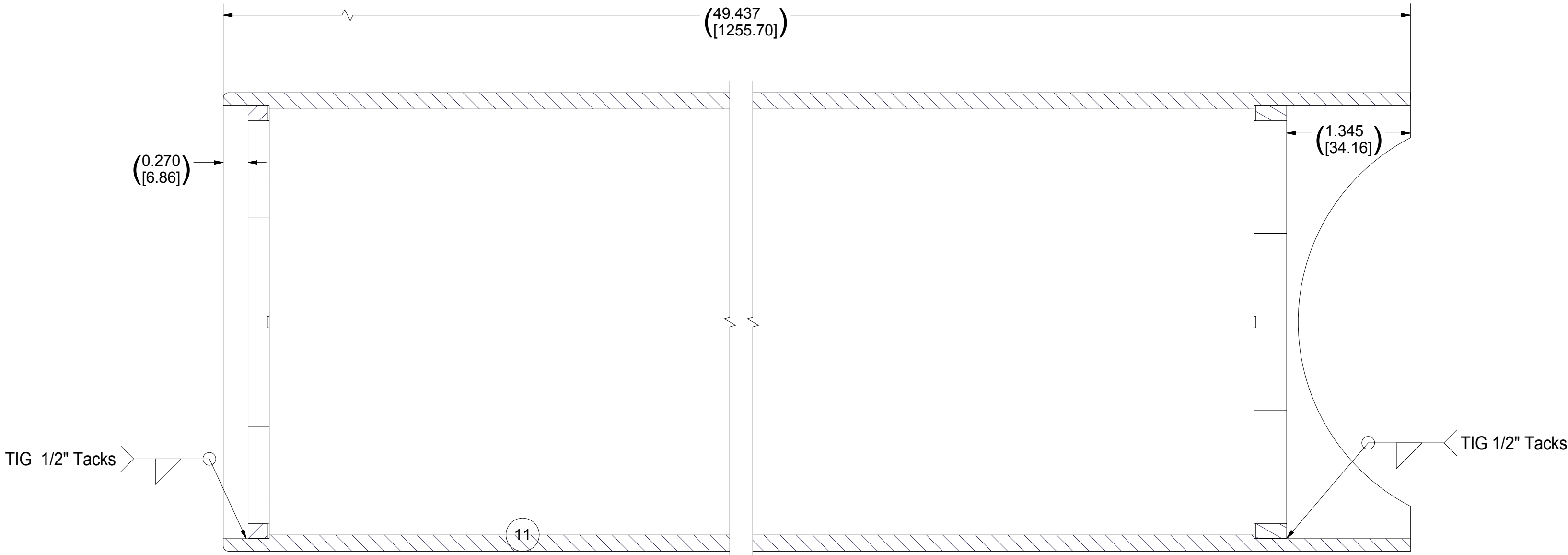
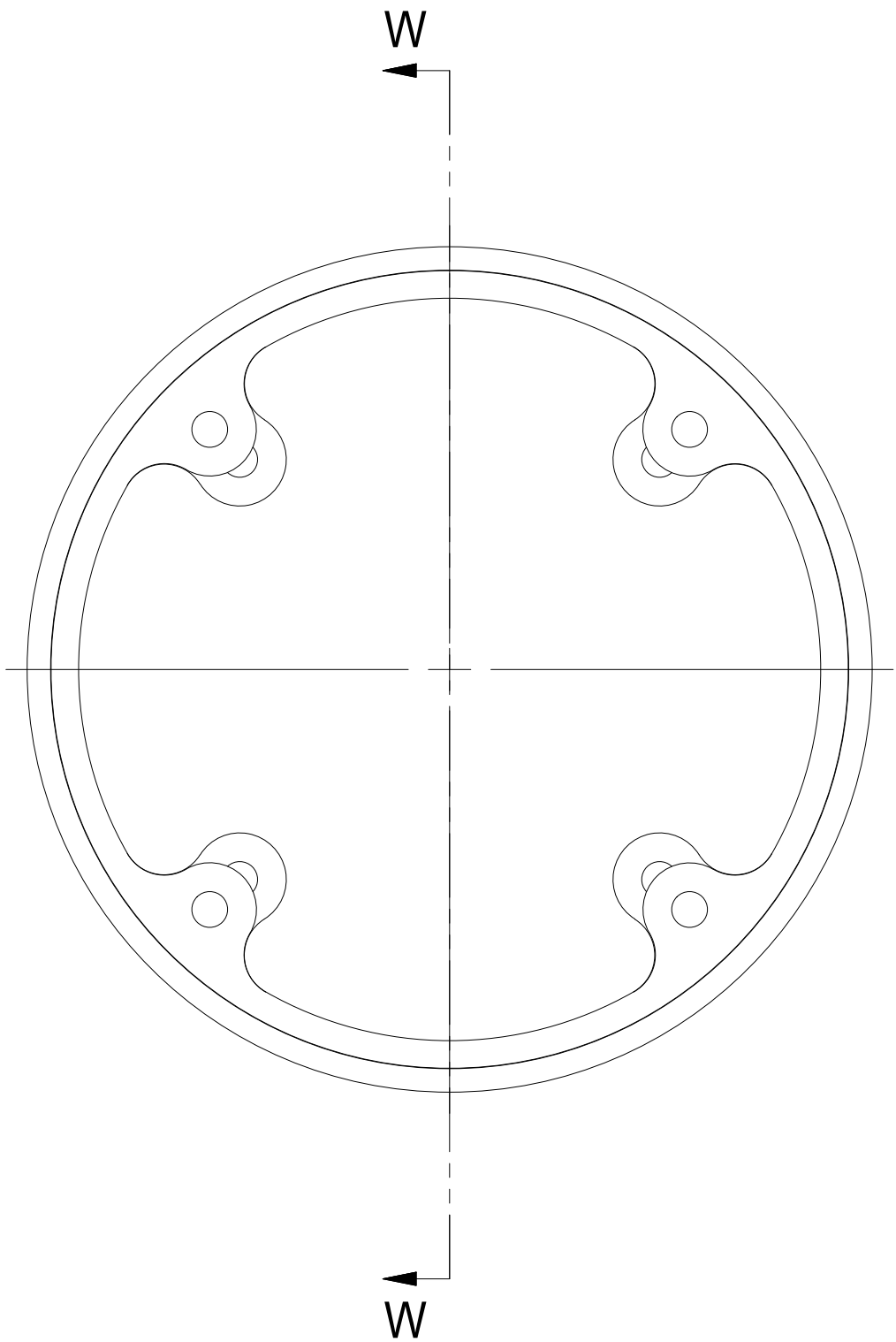


1 Short Stalk Assembly
FILE NAME: 7101-109
SHEET NO.: 2
DFT. SCALE: 1:1
MATERIAL: 316 Stainless Steel
QTY: 1
NOTES: Align Top and Bottom Rings As Shown

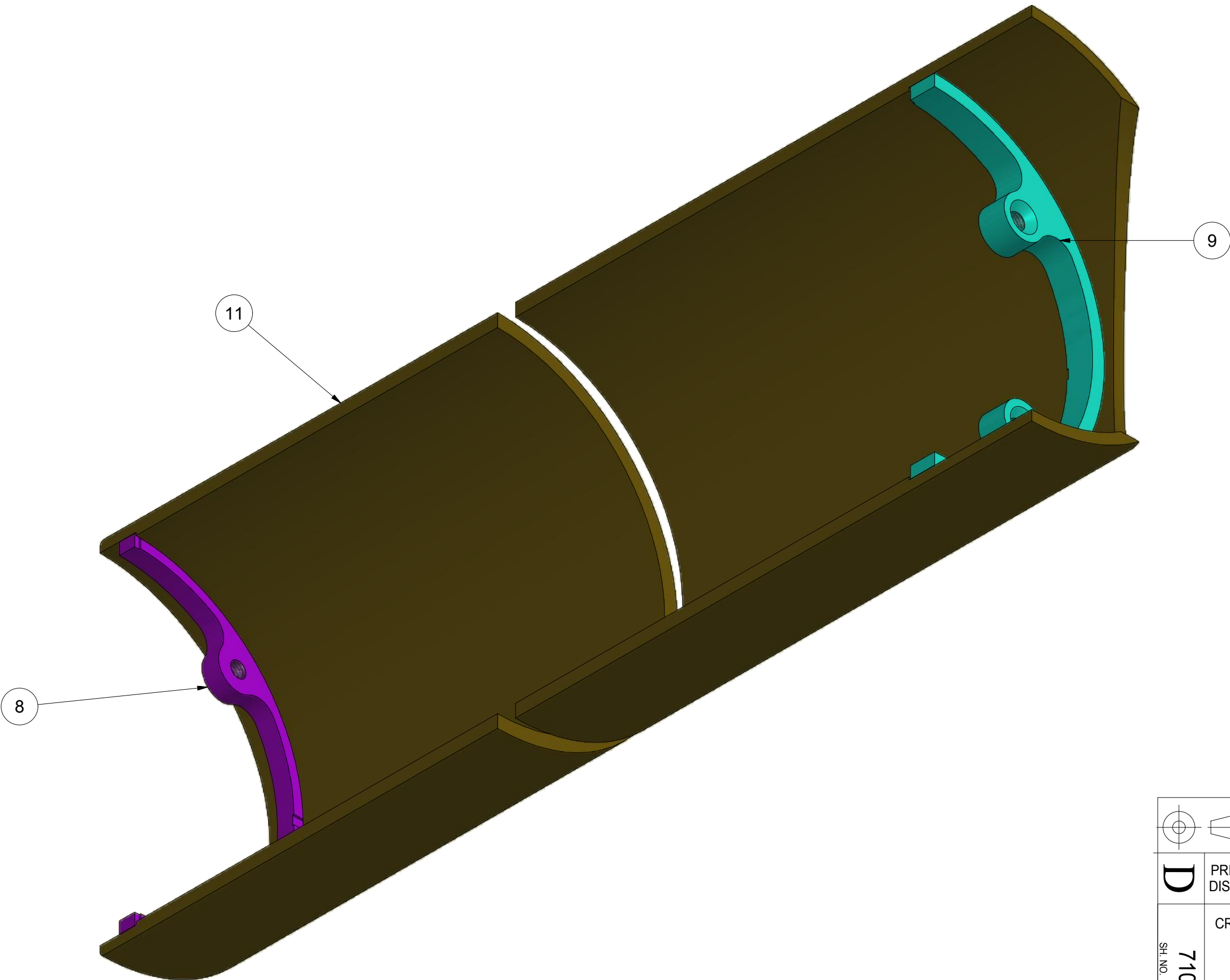
10	7101-109 Sh. 8	Short Stalk Tube	1				
9	7101-109 Sh. 7	Stalk Ring Bottom	1				
8	7101-109 Sh. 6	Stalk Ring Top	1				
ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
			QUANTITY				

D	PRINT DISTR.	PLOT DATE: 4/29/2014 CAD FILE NAME: 7101-109.idw						
		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: Ø ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 						
7101-109 SH. NO. 2 OF 14	CR-1	 CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853 Mk. 2 High Voltage Support Stalk						
		CHECKED BY: TIO APPROVED BY: KWS	DRAWN BY KWS	DRAWN FOR KWS	DATE 7/21/2010	SCALE D	7101-109 SH. NO. 2 OF 14	REV. A

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A	Mult.	Changed Wall Thickness and Bottom Flange	10/29/10	KWS



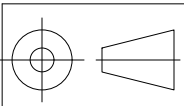
SECTION W-W
SCALE 1 : 1



XX Long Stalk Assembly
FILE NAME: 7101-109
SHEET NO.: 3
DFT. SCALE: 1:1
MATERIAL: 316 Stainless Steel
QTY: 1
NOTES: Align Top and Bottom Rings As Shown

2 Long Stalk Assembly
FILE NAME: 7101-109
SHEET NO.: 3
DFT. SCALE: 1:1
MATERIAL: 316 Stainless Steel
QTY: 1
NOTES: Align Top and Bottom Rings As Shown



11	7101-109 Sh. 9	Stalk Tube Long	1				
9	7101-109 Sh. 7	Stalk Ring Bottom	1				
8	7101-109 Sh. 6	Stalk Ring Top	1				
ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
			QUANTITY				



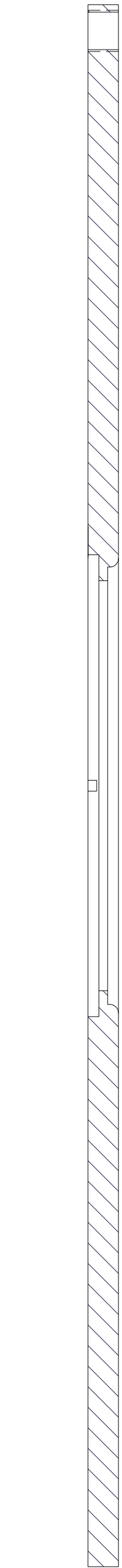
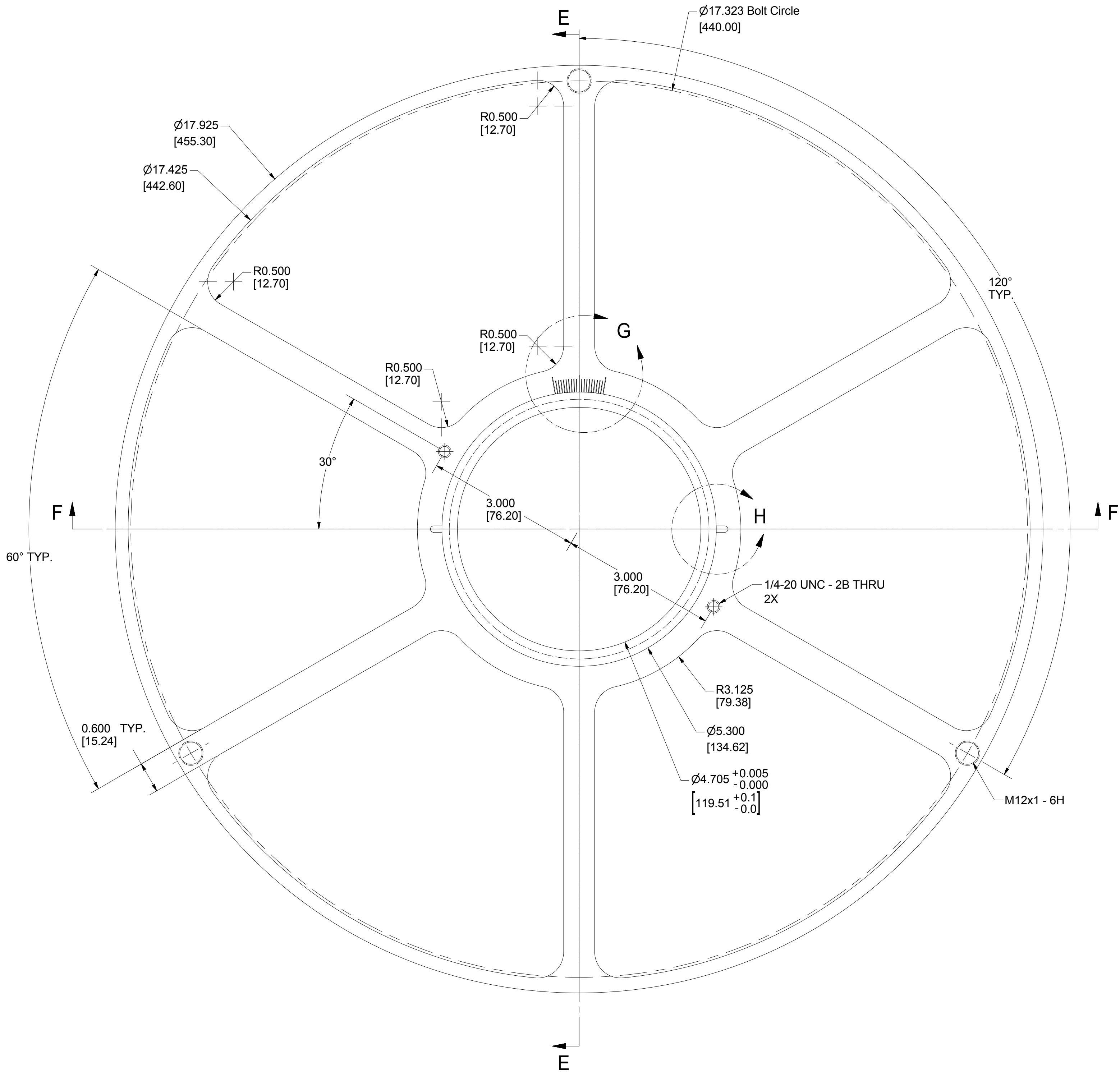
D PRINT
DISTR.

7101-109
SH. NO. 3
OF 14

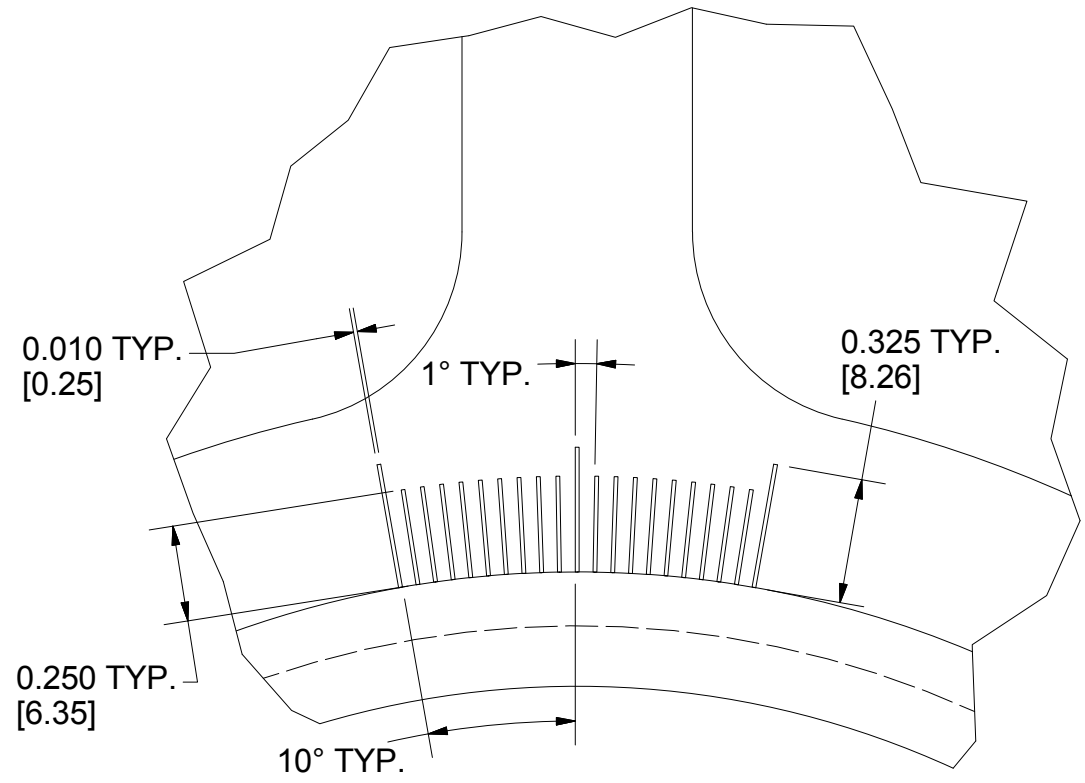
REV.
A

PLOT DATE: 4/29/2014 CAD FILE NAME: 7101-109.idw		CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853			CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 		 LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS Mk. 2 High Voltage Support Stalk			DRAWN BY KWS	
CHECKED BY: TIO APPROVED BY: KWS		DRAWN FOR KWS	DATE 7/21/2010	SCALE D	7101-109 SH. NO. 3 OF 14	REV. A

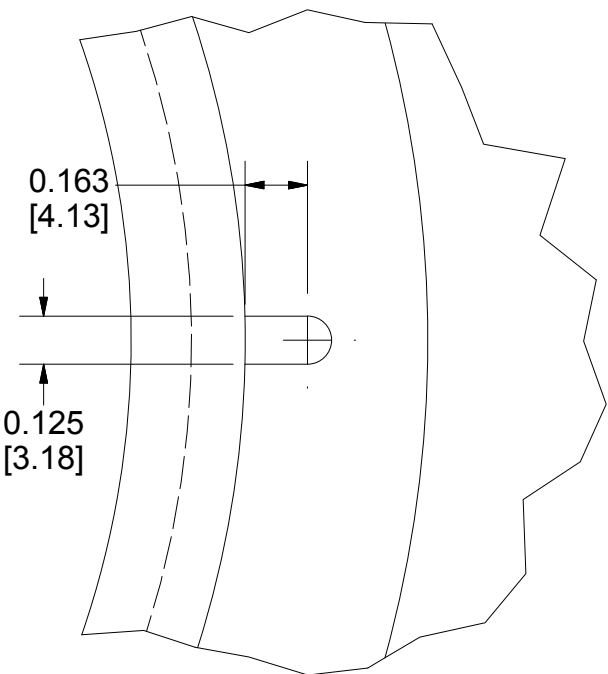
REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A	C6	Changed ID and Tolerance	10/29/10	KWS
B	C6,D7	Added two 1/4-20 holes	9/17/12	XL



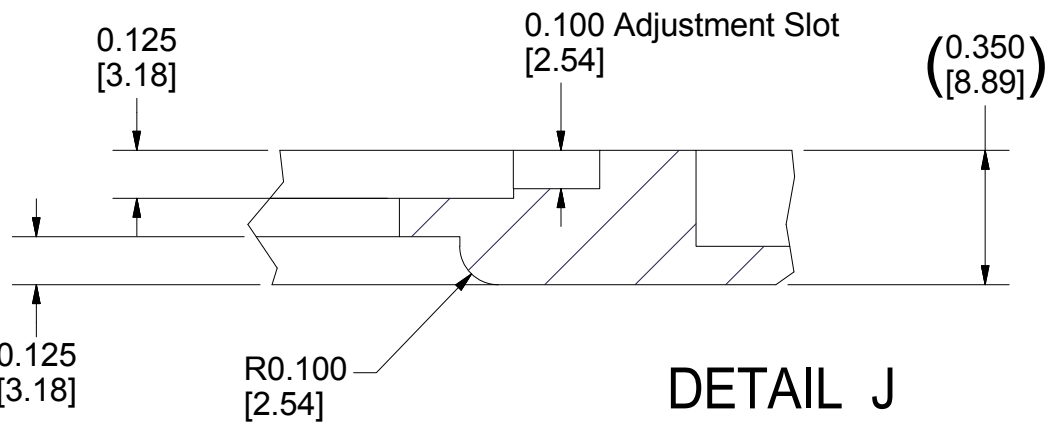
SECTION E-E
SCALE .75



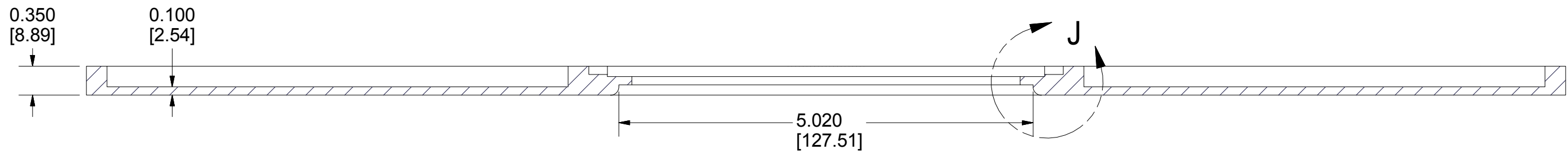
DETAIL G
SCALE 2 : 1
Alignment Scribe Marks



DETAIL H
SCALE 2 : 1
Adjustment Slots



DETAIL J
SCALE 2 : 1

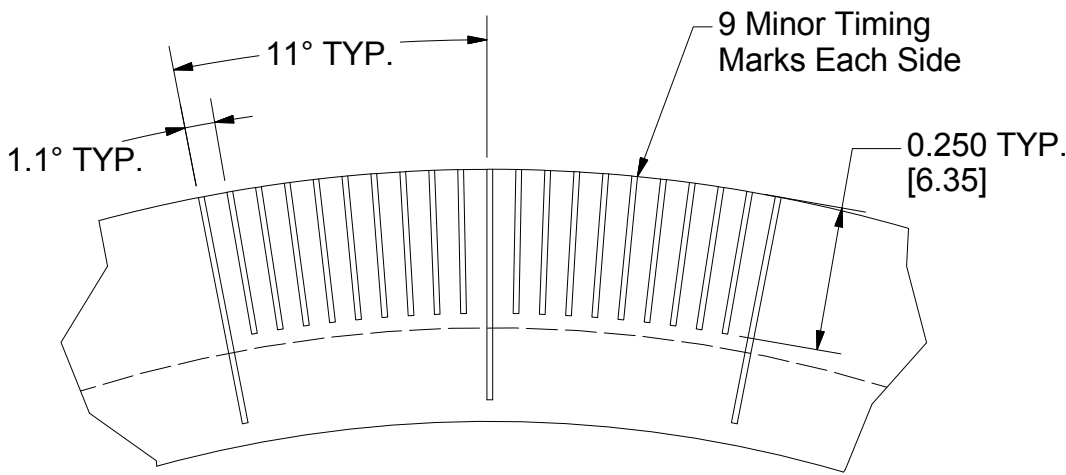
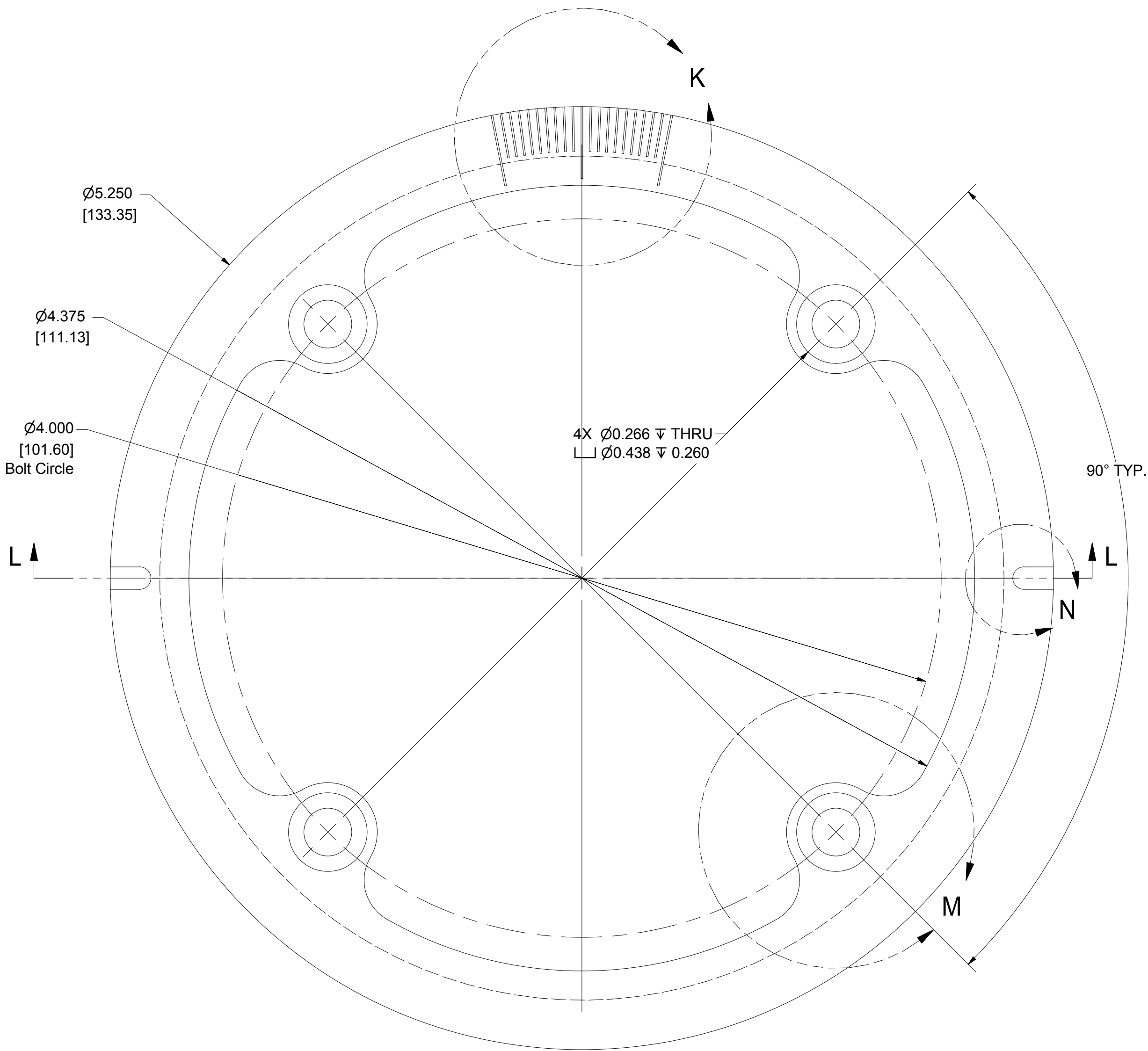


SECTION F-F
SCALE .75

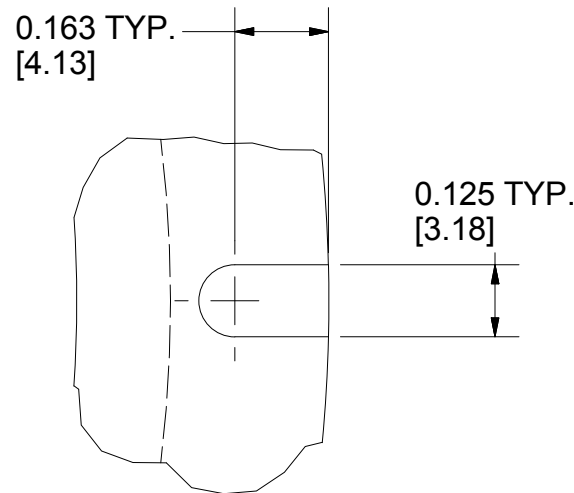
7 Support Plate
FILE NAME: 7101-109
SHEET NO.: 4
DFT. SCALE: 1:1
MATERIAL: 316 Stainless Steel
QTY: 1
NOTES: Laser Engrave or CNC Scribe Alignment Marks

		ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
					QUANTITY				
D	PRINT DISTR.	PLOT DATE: 4/29/2014 CAD FILE NAME: 7101-109.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><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></div>			
7101-109		Mk. 2 High Voltage Support Stalk							
SH. NO. 4 OF 14	REV. B	CHECKED BY: TIO	DRAWN BY: KWS	DRAWN FOR: KWS	DATE: 7/21/2010	SCALE: D	7101-109		REV. B
		APPROVED BY: KWS	SH. NO. 4 OF 14						

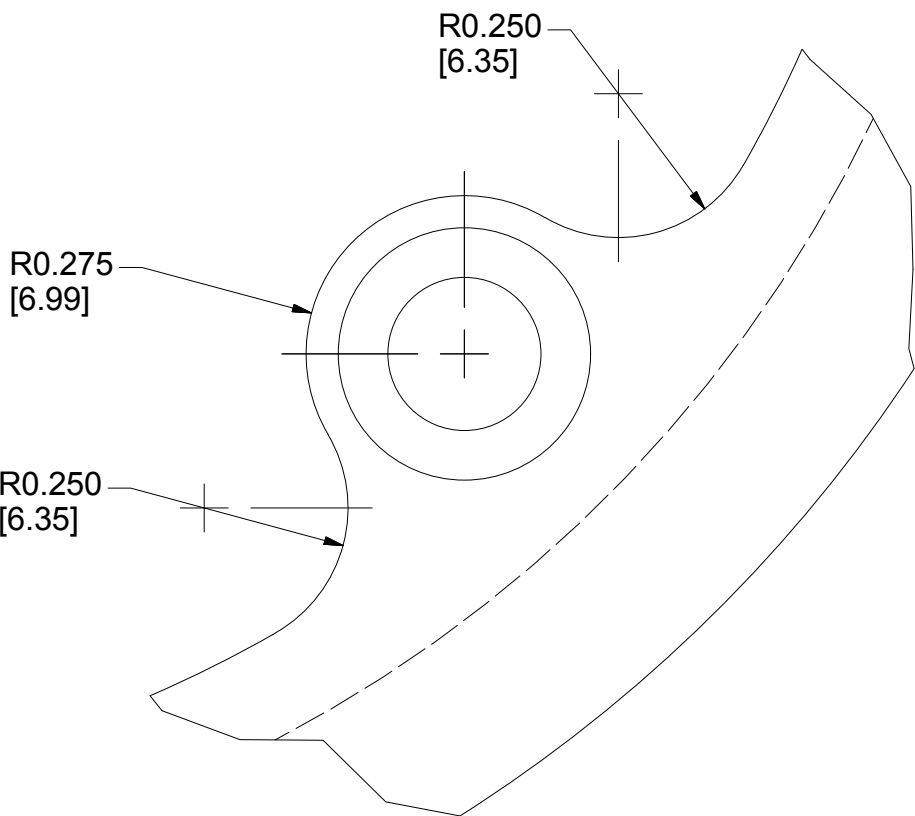
REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A	Mult.	Multiple dimensional changes	10/29/10	KWS



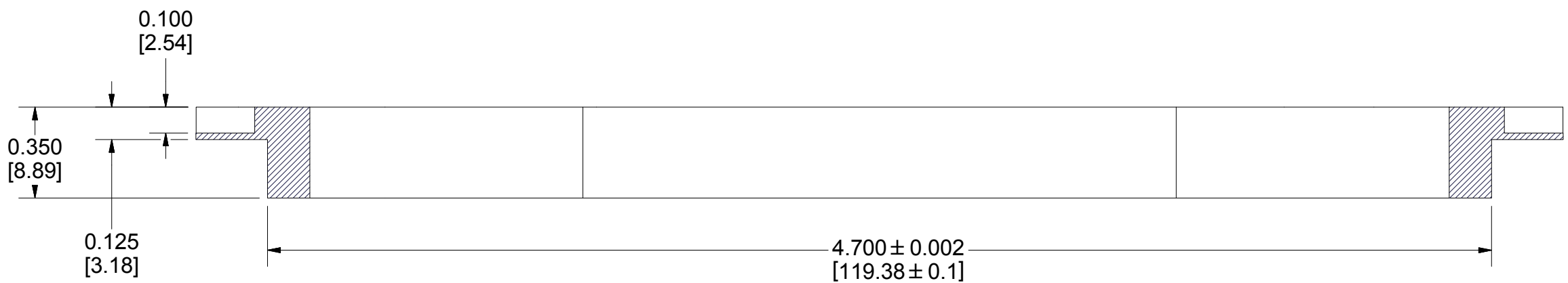
DETAIL K
SCALE 3 : 1



DETAIL N
SCALE 3 : 1


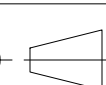




DETAIL M
SCALE 3 : 1
All Dimensions Typical

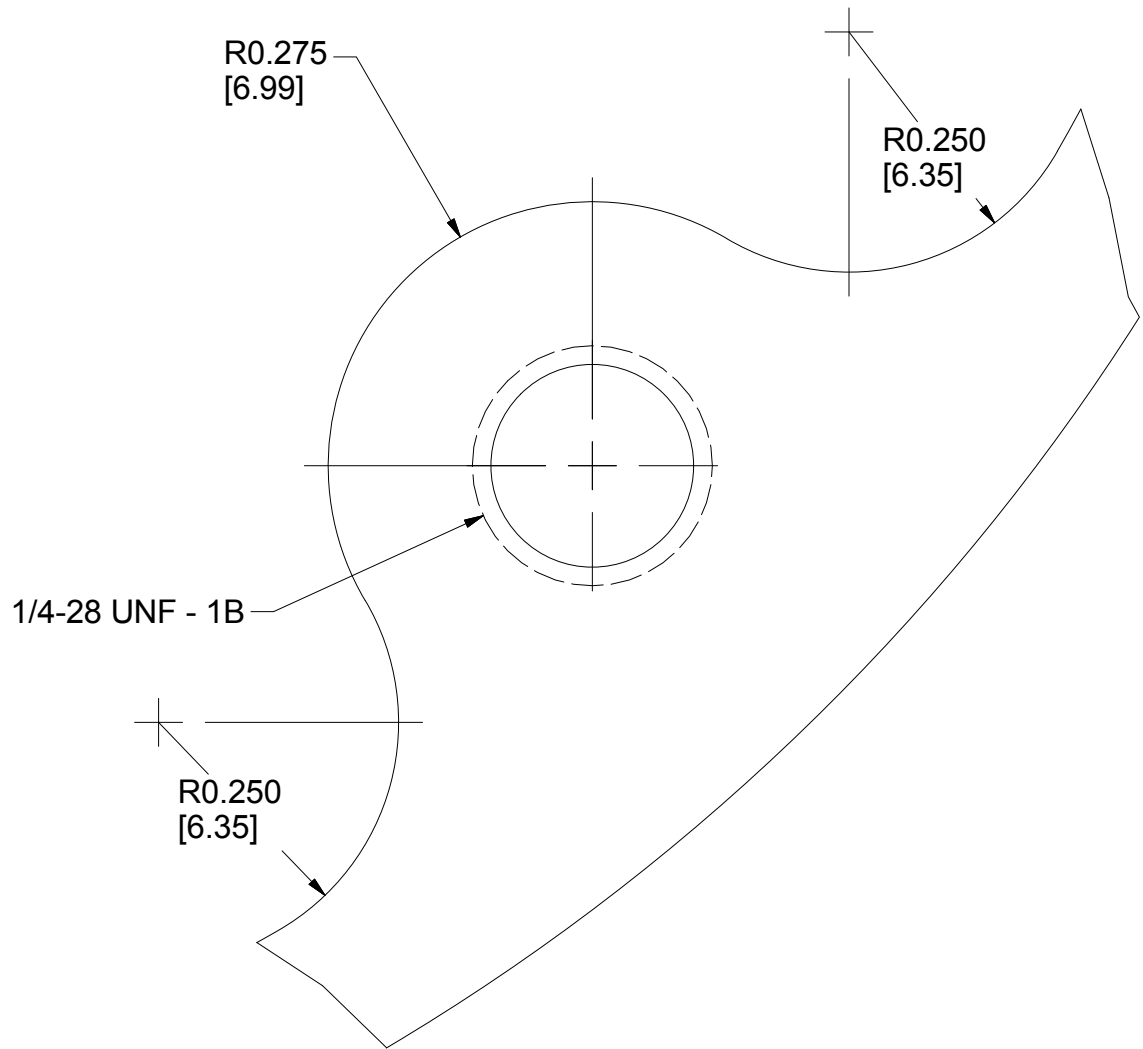
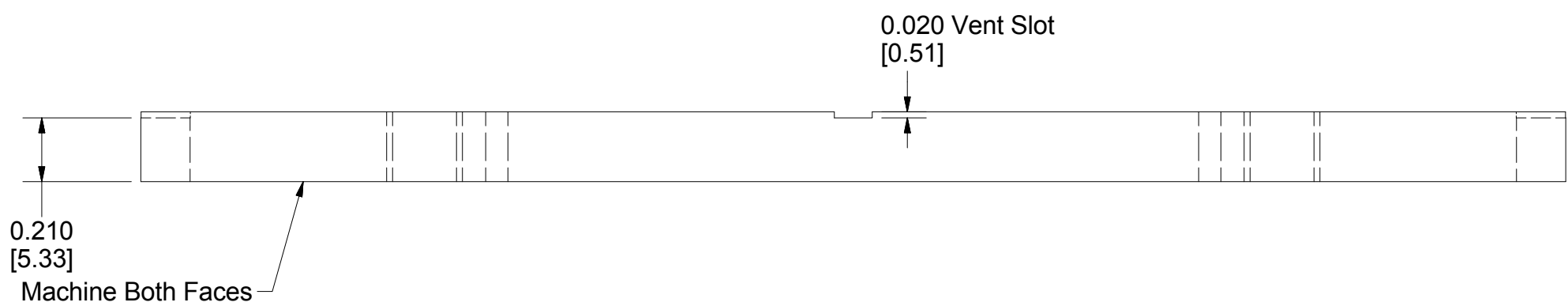
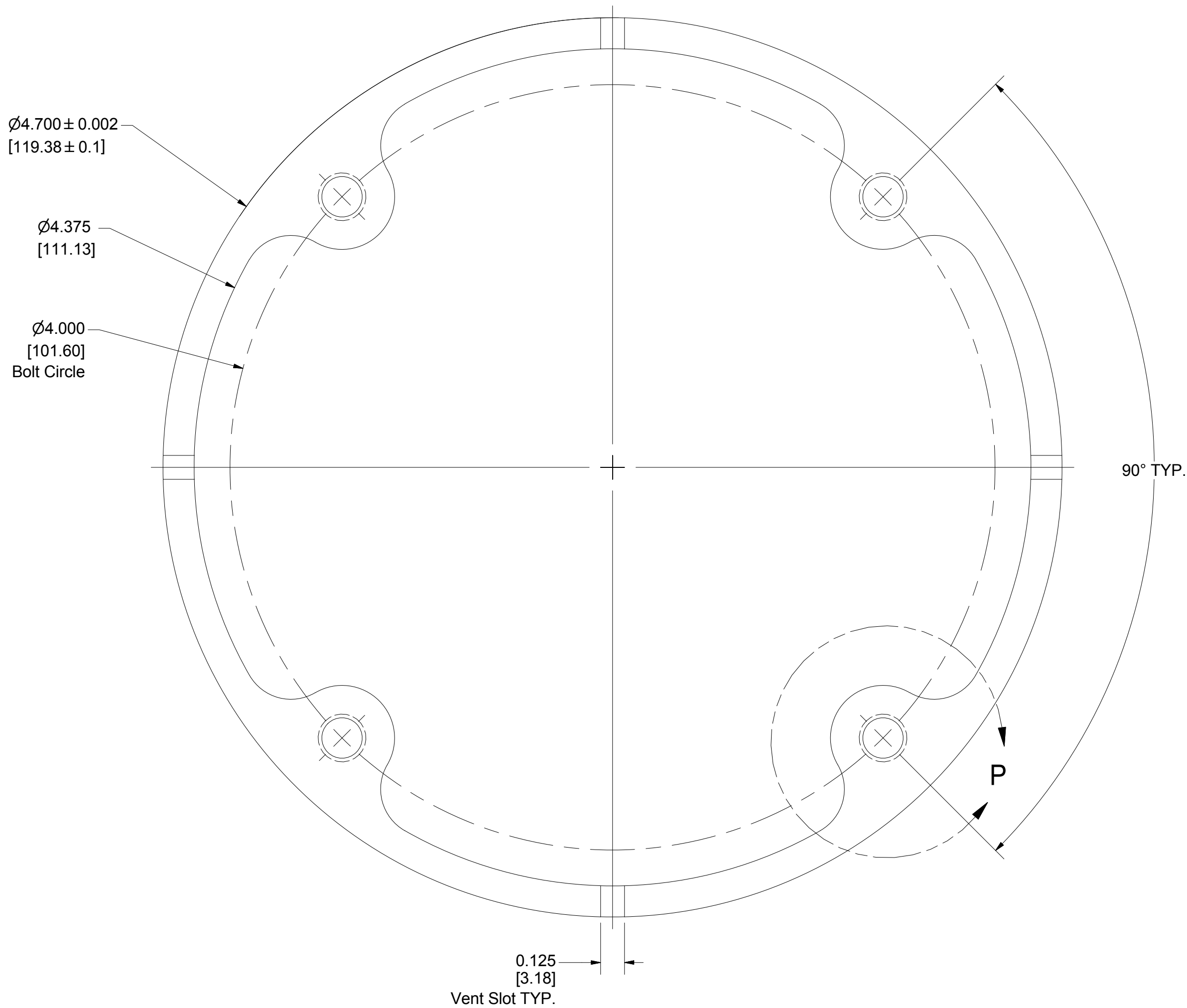


SECTION L-L
SCALE 2 : 1

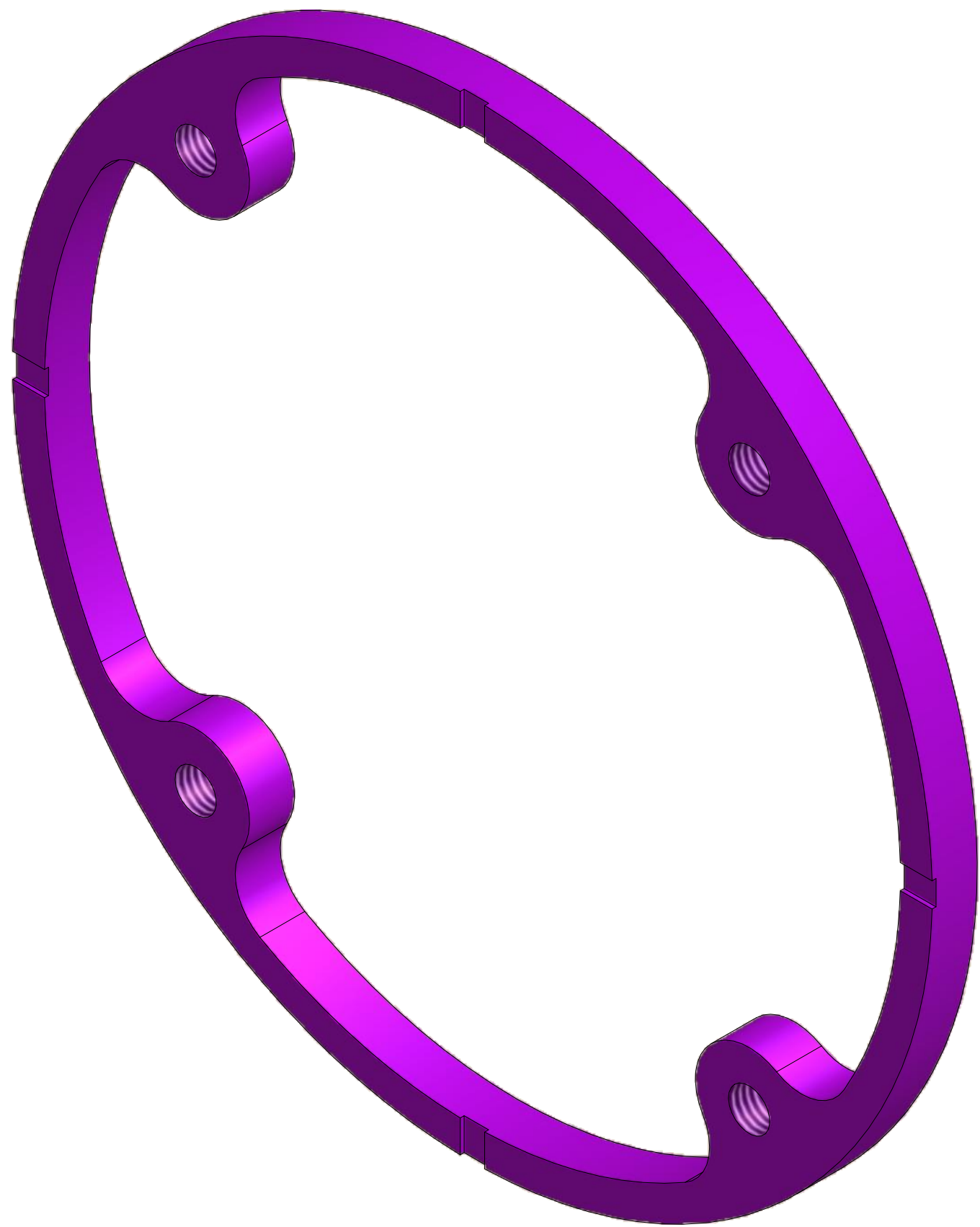


				ITEM		DWG. NO.		DESCRIPTION			G1		G2		G3		REMARKS		REV.		
											QUANTITY										
D		PRINT DISTR.		PLOT DATE: 4/29/2014 CAD FILE NAME: 7101-109.idw																	
7101-109 SH. NO. 5 OF 14		CR-1		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: 0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 			<div>CORNELL UNIVERSITY  CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div> <div>Mk. 2 High Voltage Support Stalk</div>														
REV. A		CHECKED BY: TIO		DRAWN BY: KWS			DRAWN FOR: KWS			DATE: 7/21/2010			SCALE: D		7101-109 SH. NO. 5 OF 14			REV. A			
		APPROVED BY: KWS																			




REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A	Mult.	ID / OD Changes to match Tubing	10/29/10	KWS

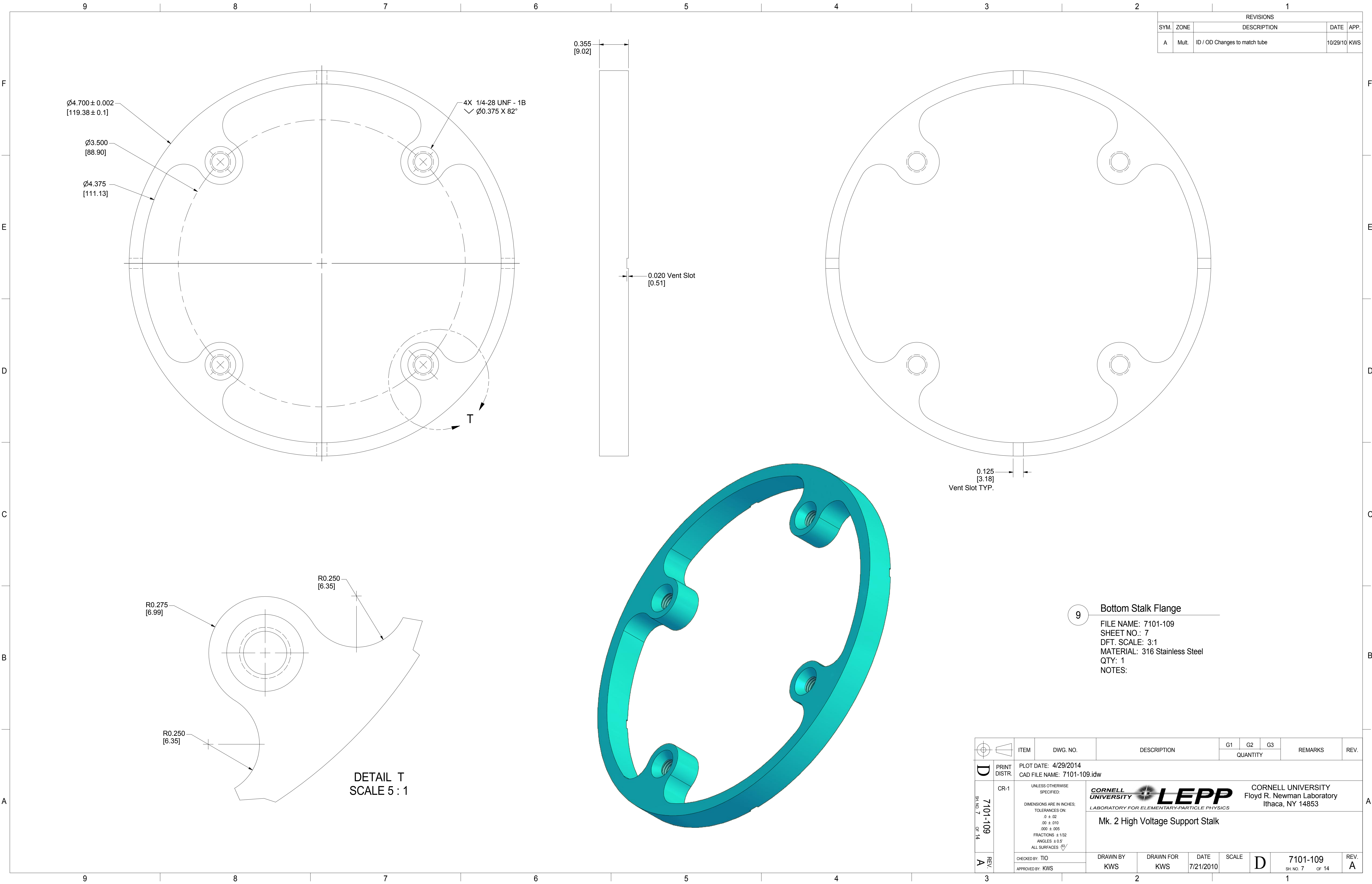


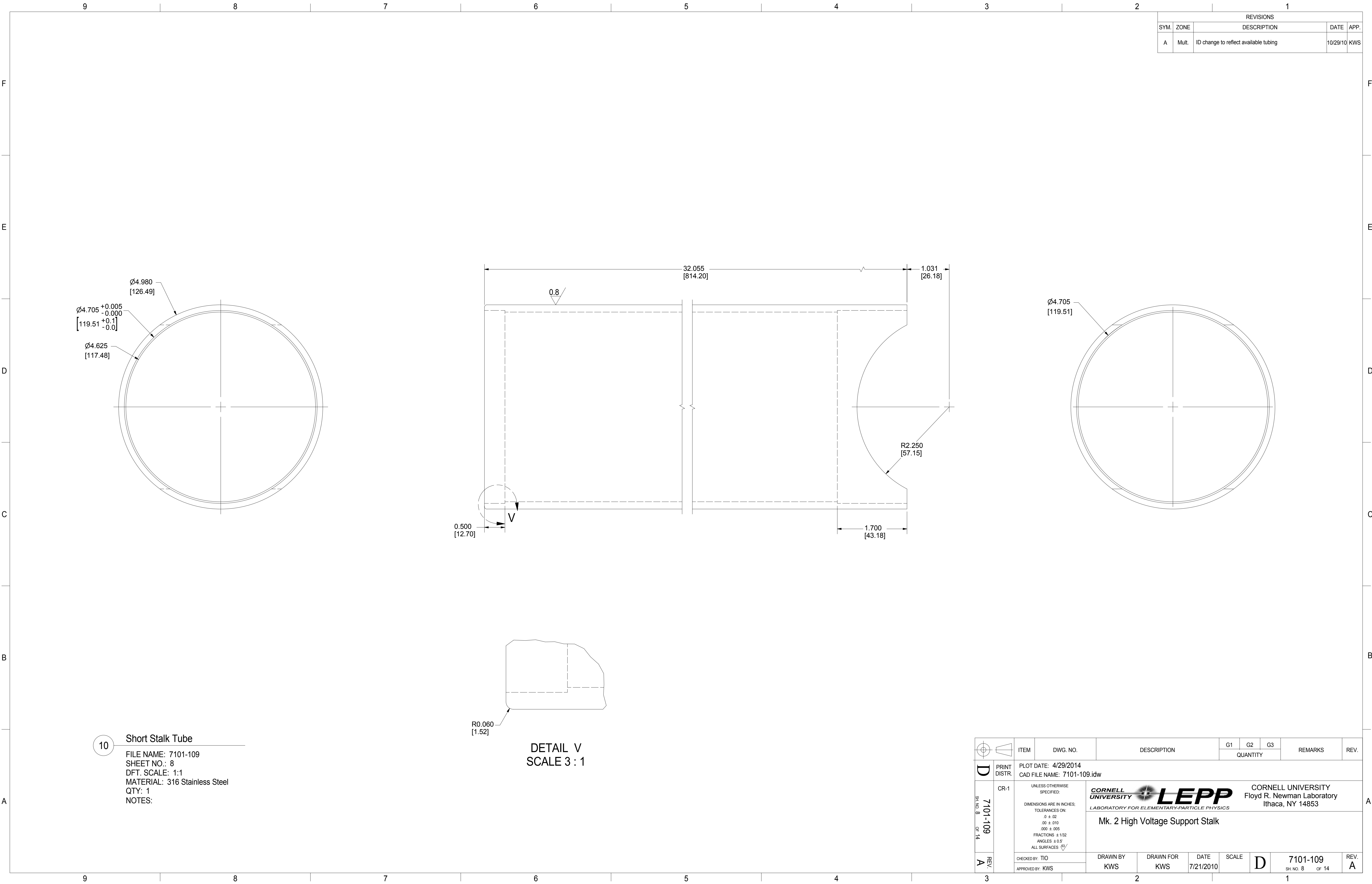
DETAIL P
SCALE 5 : 1
All Dimensions Typical







8 Stalk Flange Ring
FILE NAME: 7101-109
SHEET NO.: 6
DFT. SCALE: 3:1
MATERIAL: 316 Stainless Steel
QTY: 1
NOTES:

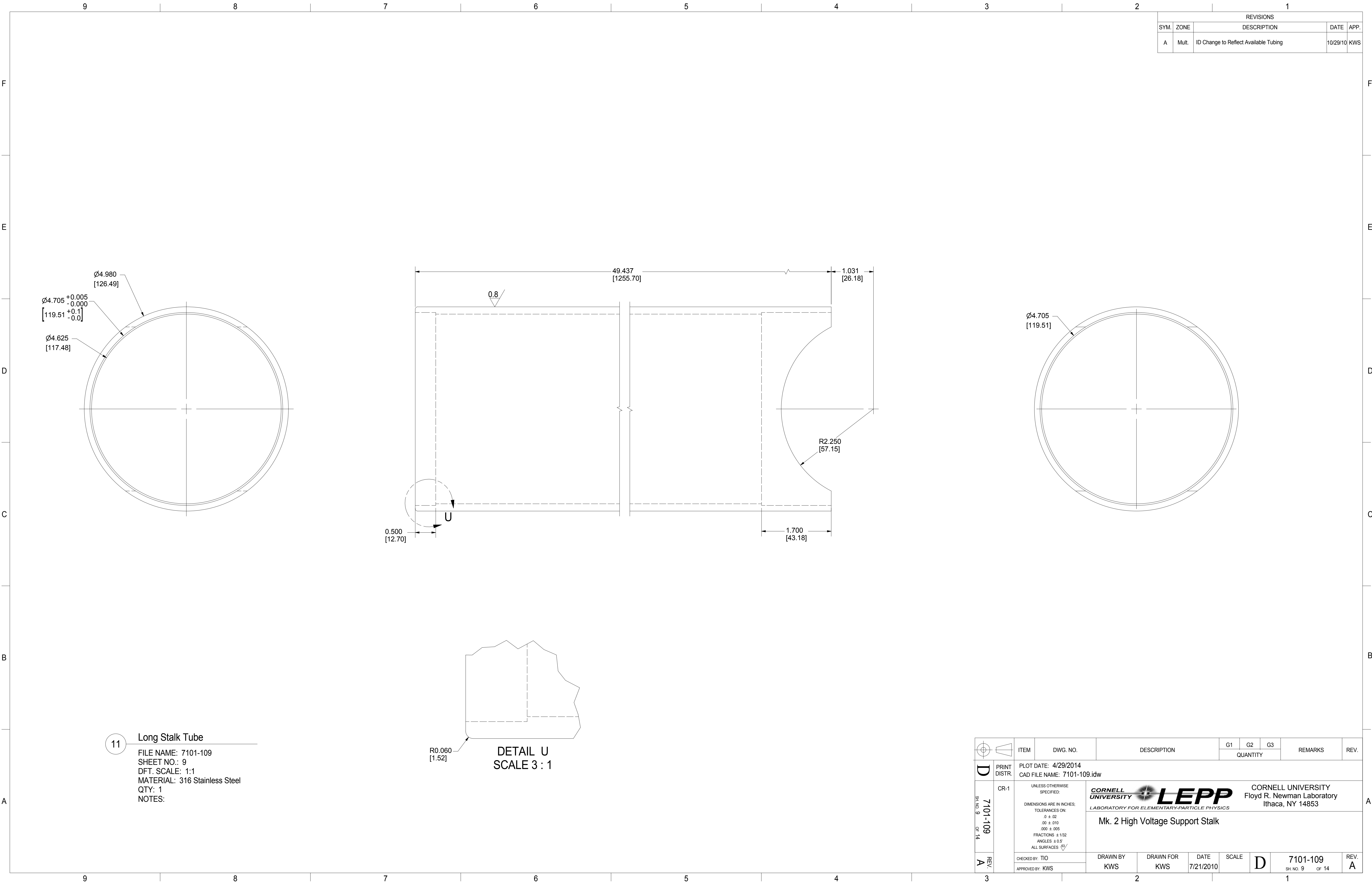
		ITEM		DWG. NO.		DESCRIPTION		G1		G2		G3		REMARKS		REV.	
								QUANTITY									
D		PRINT DISTR.		PLOT DATE: 4/29/2014 CAD FILE NAME: 7101-109.idw													
7101-109 SH. NO. 6 OF 14		CR-1		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: 0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 		<div>CORNELL UNIVERSITY  CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div> <div>Mk. 2 High Voltage Support Stalk</div>											
REV. A		CHECKED BY: TIO		DRAWN BY KWS		DRAWN FOR KWS		DATE 7/21/2010		SCALE		D		7101-109 SH. NO. 6 OF 14		REV. A	
		APPROVED BY: KWS															





REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A	Mult.	ID change to reflect available tubing	10/29/10	KWS




		ITEM		DWG. NO.		DESCRIPTION		G1	G2	G3	REMARKS		REV.	
								QUANTITY						
	PRINT DISTR.	PLOT DATE: 4/29/2014 CAD FILE NAME: 7101-109.idw												
	CR-1	<p>UNLESS OTHERWISE SPECIFIED:</p> <p>DIMENSIONS ARE IN INCHES:</p> <p>TOLERANCES ON:</p> <p>0 ± .02</p> <p>.00 ± .010</p> <p>.000 ± .005</p> <p>FRACTIONS ± 1/32</p> <p>ANGLES ± 0.5°</p> <p>ALL SURFACES </p>		<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>										
7101-109 SH. NO. 8 OF 14				Mk. 2 High Voltage Support Stalk										
A	REV.	CHECKED BY: TIO		DRAWN BY KWS		DRAWN FOR KWS		DATE 7/21/2010		SCALE D		7101-109 SH. NO. 8 OF 14		REV. A
		APPROVED BY: KWS												



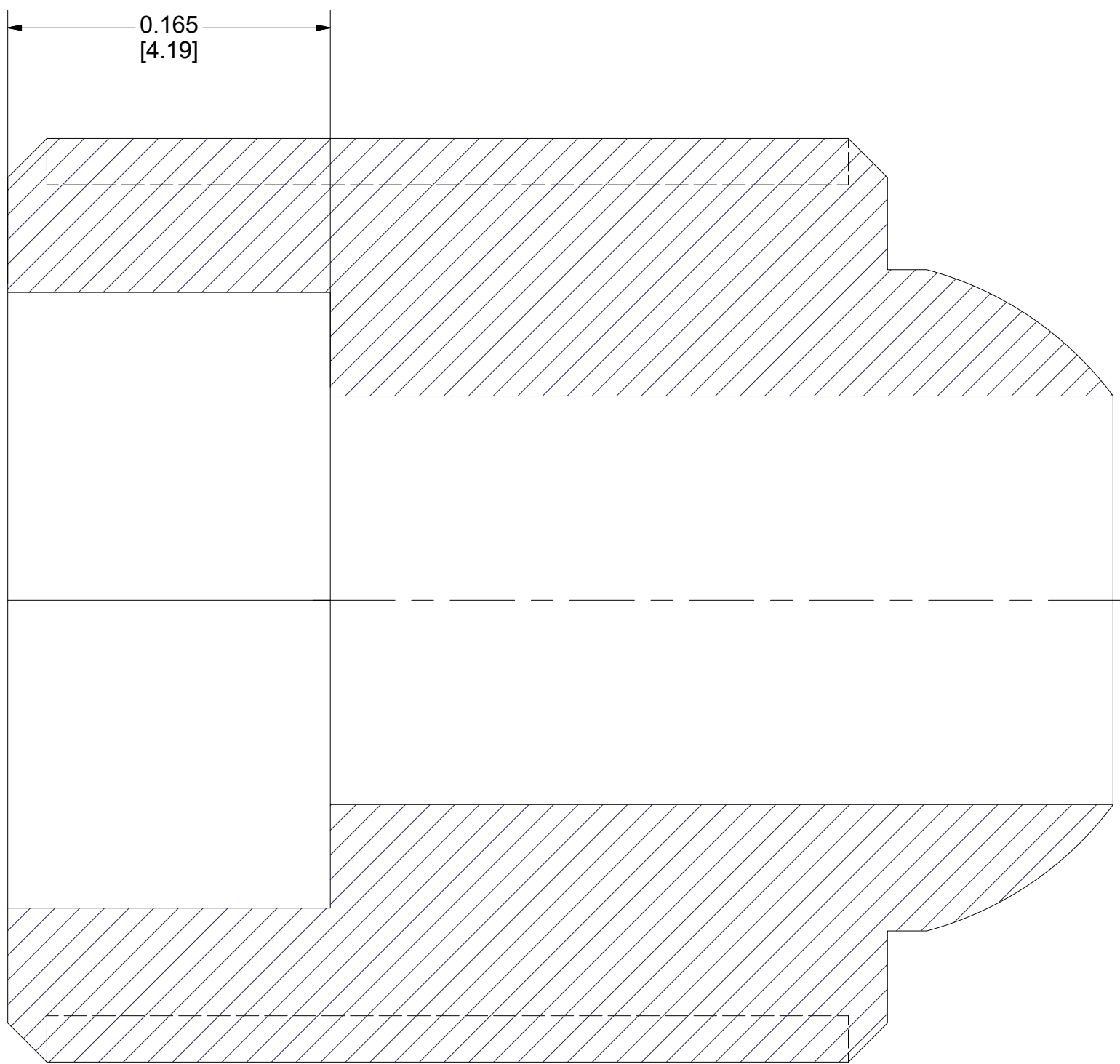
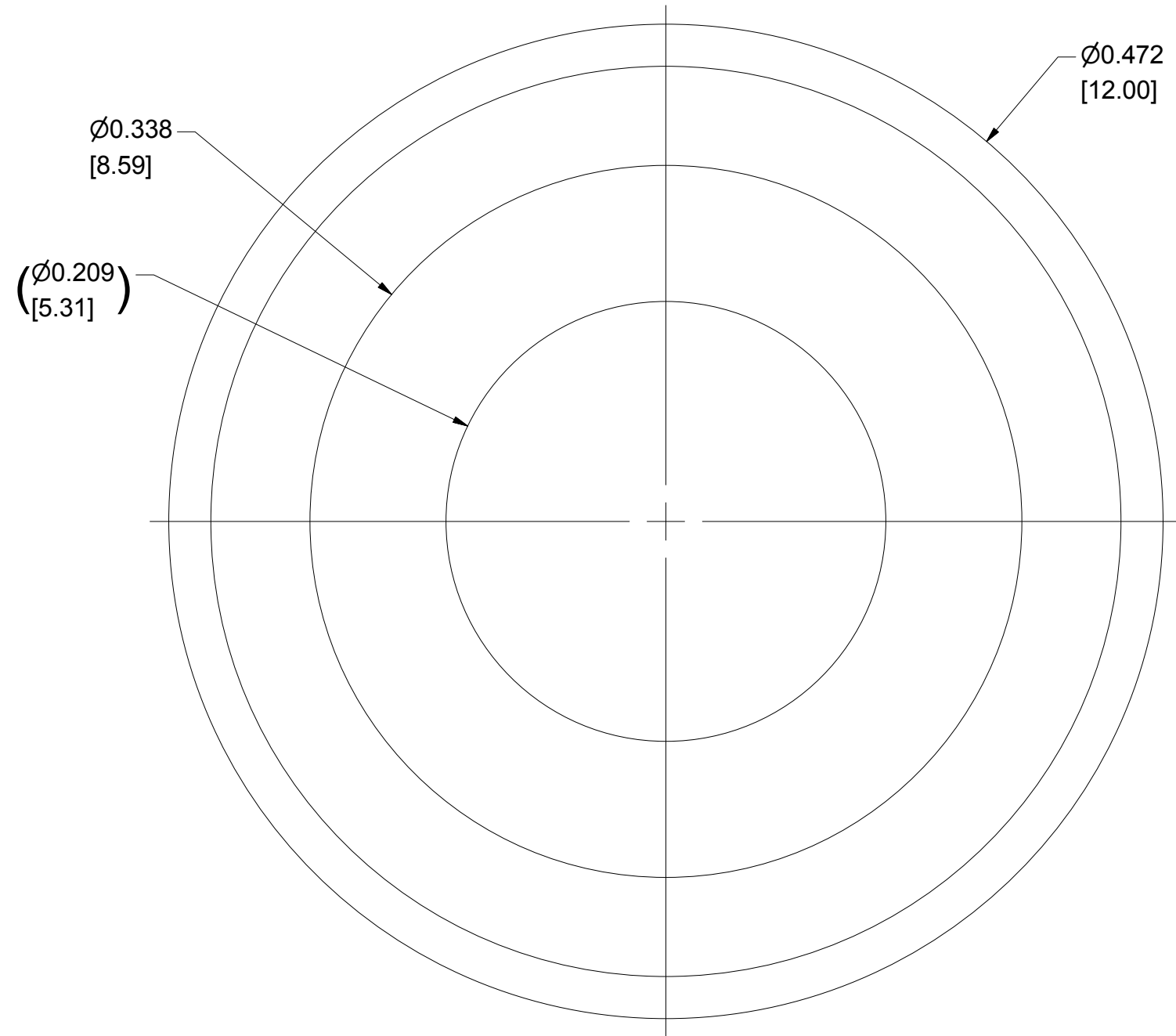
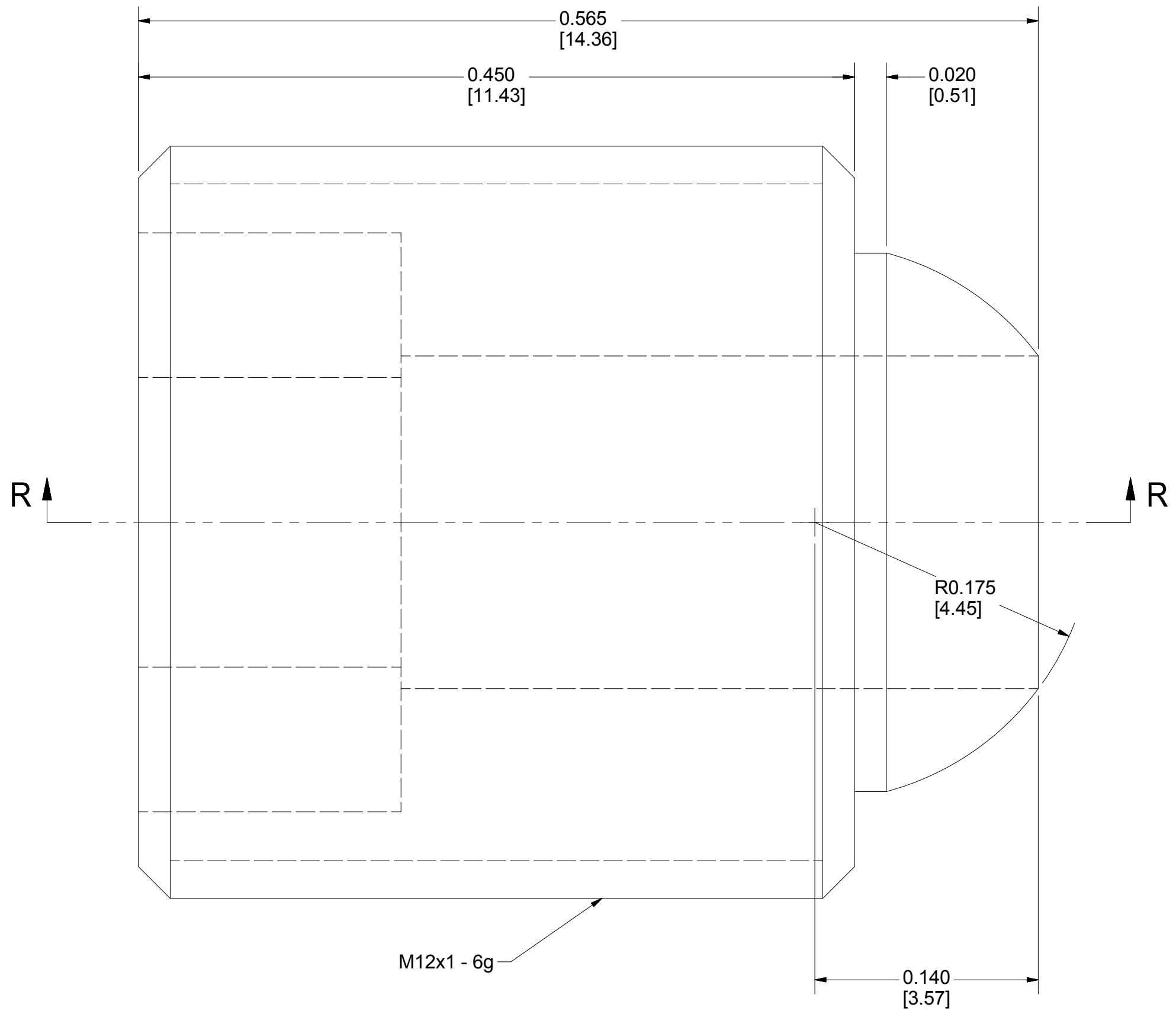
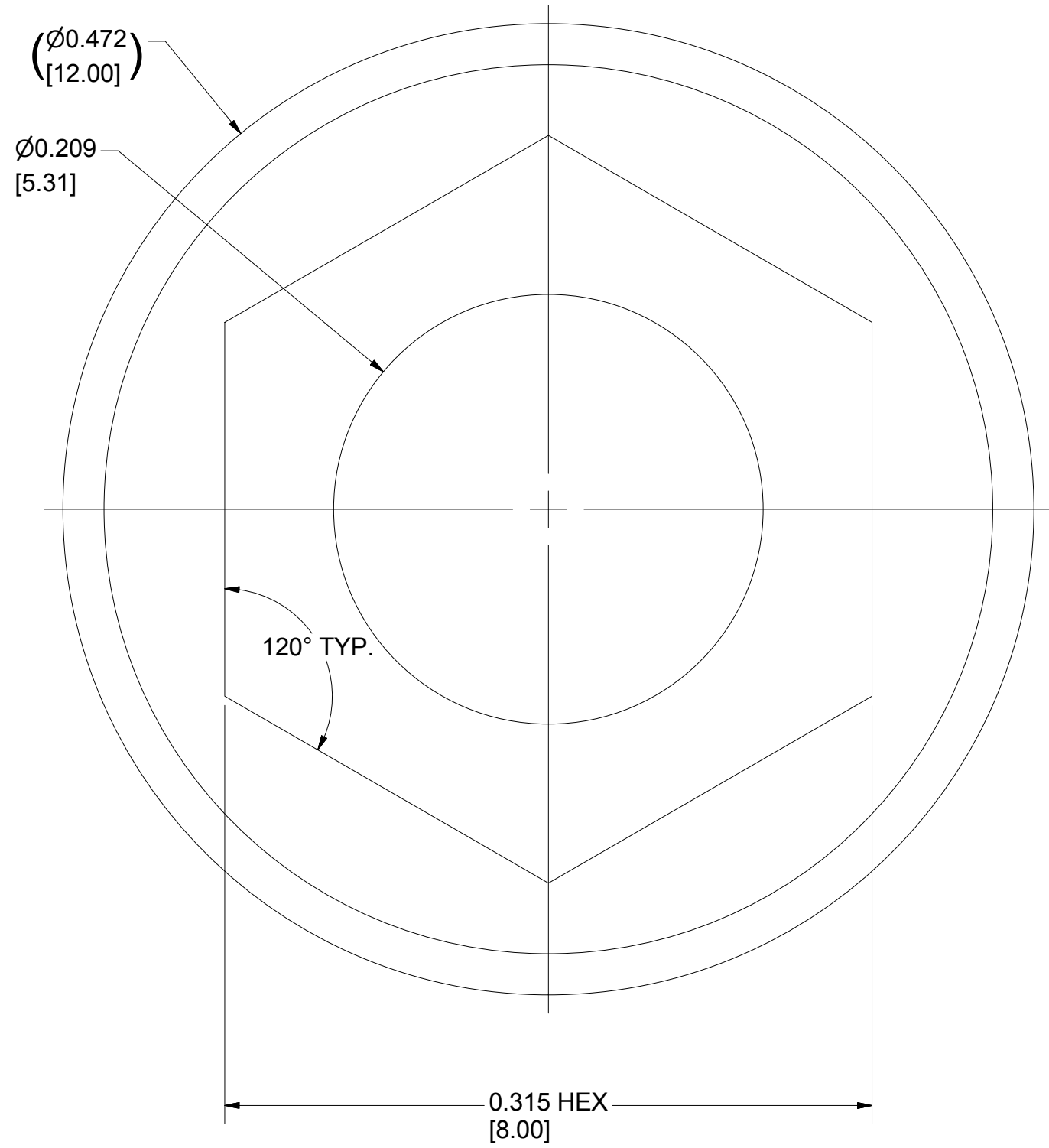
REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A	Mult.	ID Change to Reflect Available Tubing	10/29/10	KWS

11 Long Stalk Tube
FILE NAME: 7101-109
SHEET NO.: 9
DFT. SCALE: 1:1
MATERIAL: 316 Stainless Steel
QTY: 1
NOTES:

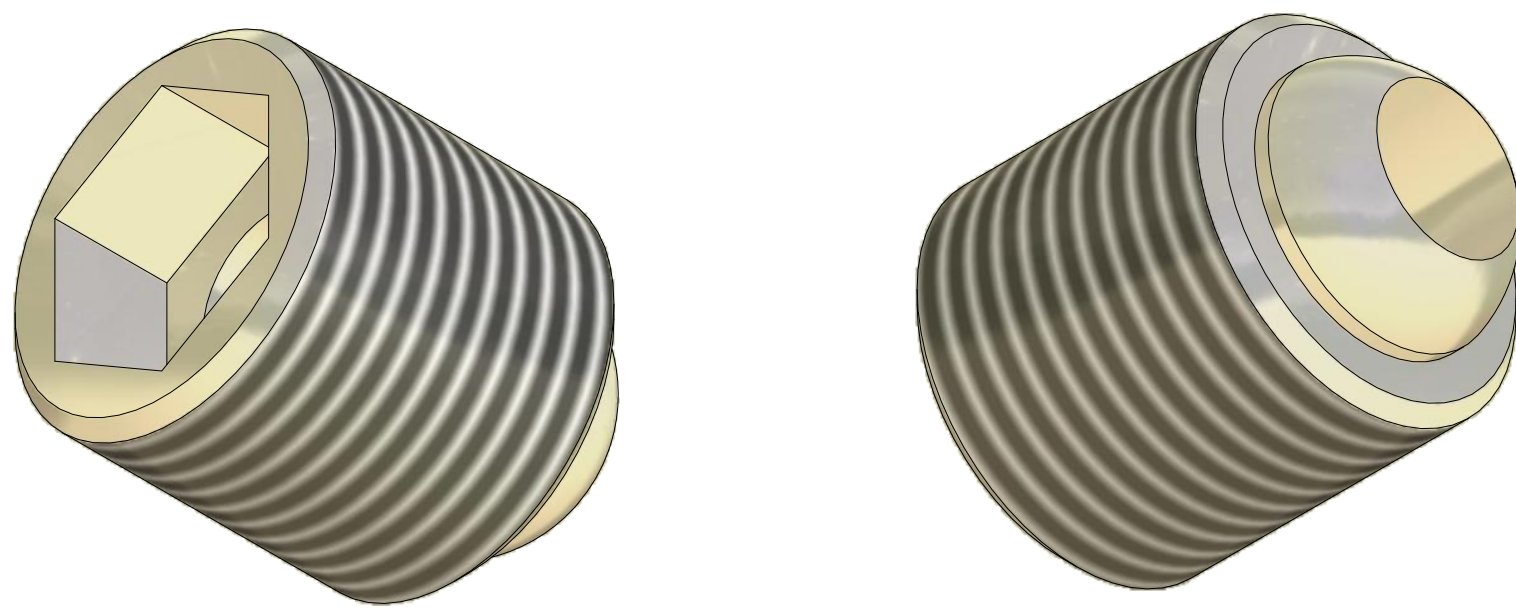
DETAIL U
SCALE 3 : 1

		ITEM		DWG. NO.		DESCRIPTION			G1		G2		G3		REMARKS		REV.	
			QUANTITY															
D	PRINT DISTR.		PLOT DATE: 4/29/2014 CAD FILE NAME: 7101-109.idw															
	CR-1		<div><div><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><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></div> <div>Mk. 2 High Voltage Support Stalk</div>															
SH. NO. 9 OF 14		7101-109																
A	REV.	CHECKED BY: TIO		DRAWN BY KWS		DRAWN FOR KWS		DATE 7/21/2010		SCALE		D		7101-109		REV. A		
		APPROVED BY: KWS		SH. NO. 9 OF 14														

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A	Mult.	Drilled out for M5 Screw (tight)	9/20/13	KWS



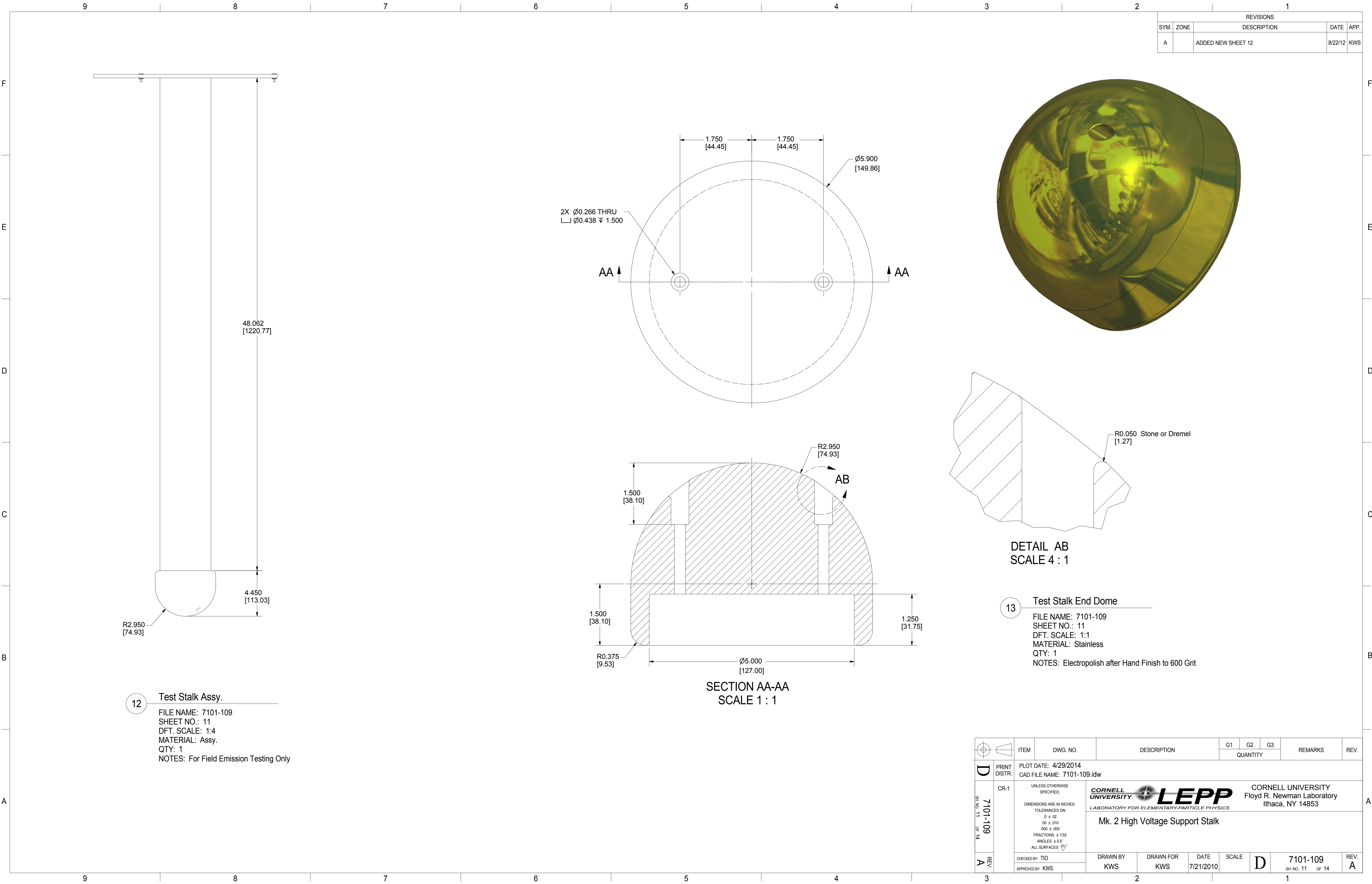
SECTION R-R
SCALE 14 : 1




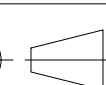


5 Stalk Adjuster Bolt
FILE NAME: 7101-109
SHEET NO.: 10
DFT. SCALE: 10:1
MATERIAL: Titanium
QTY: 3
NOTES: Optional Silver Plating

SYM.	ZONE	REVISIONS			DATE	APP.
		DESCRIPTION	DATE	APP.		
A	Mult.	Drilled out for M5 Screw (tight)	9/20/13	KWS		

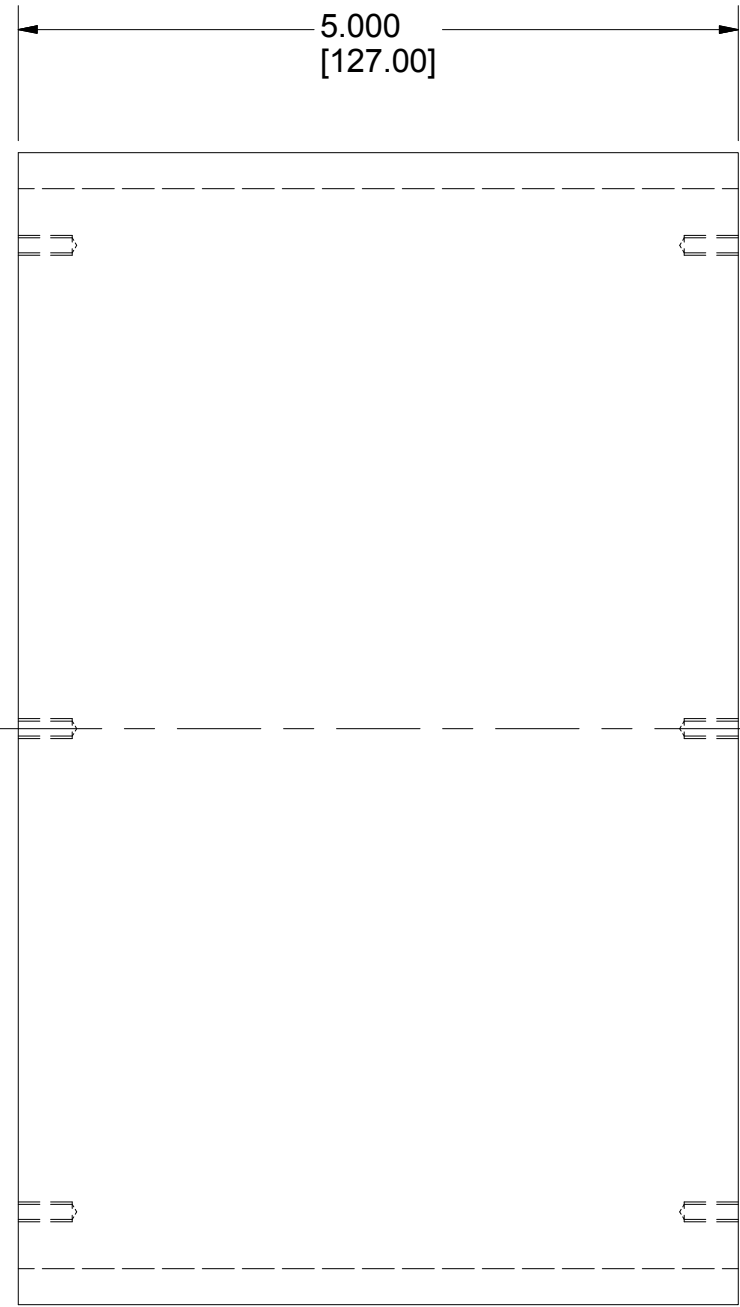
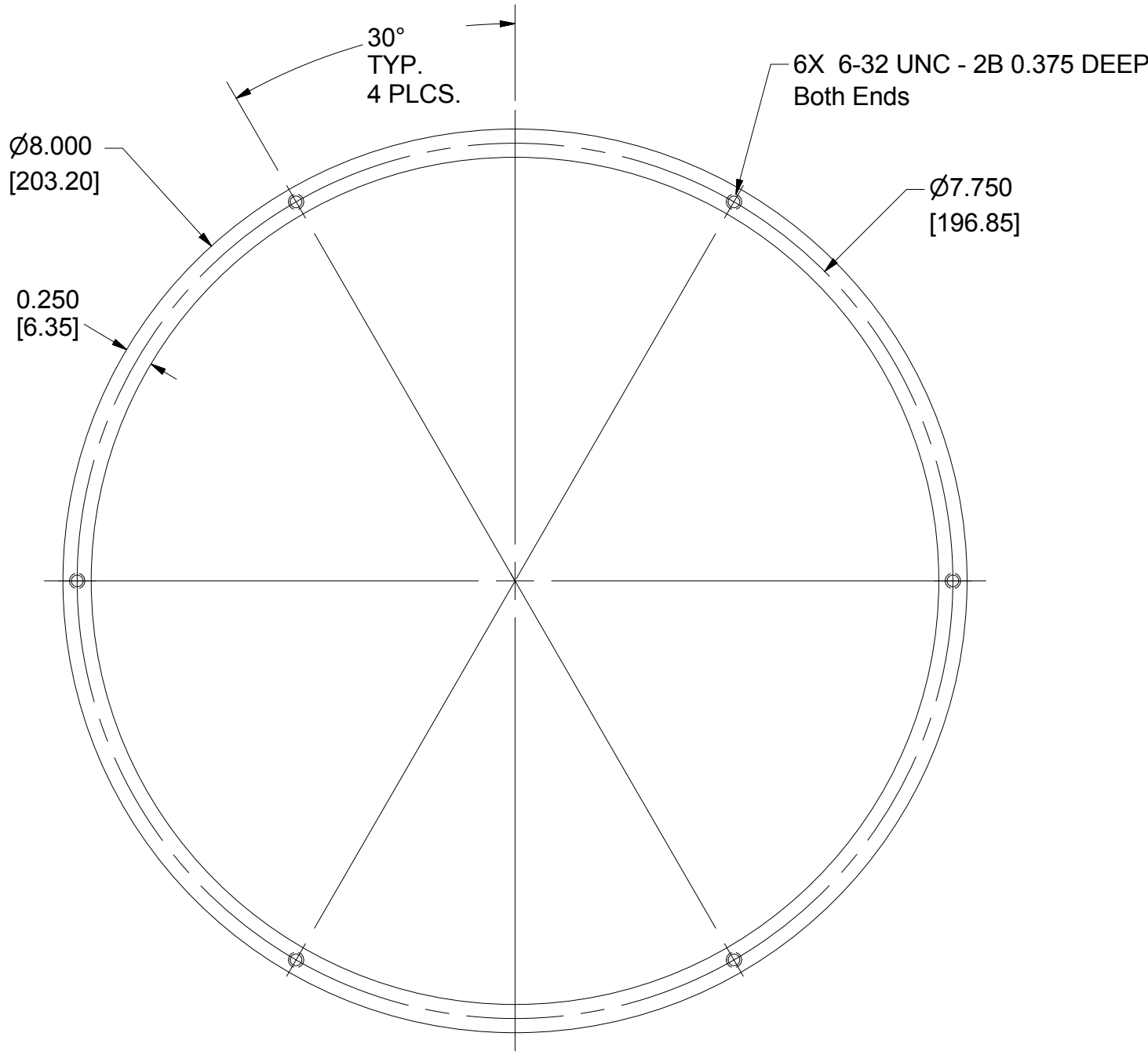
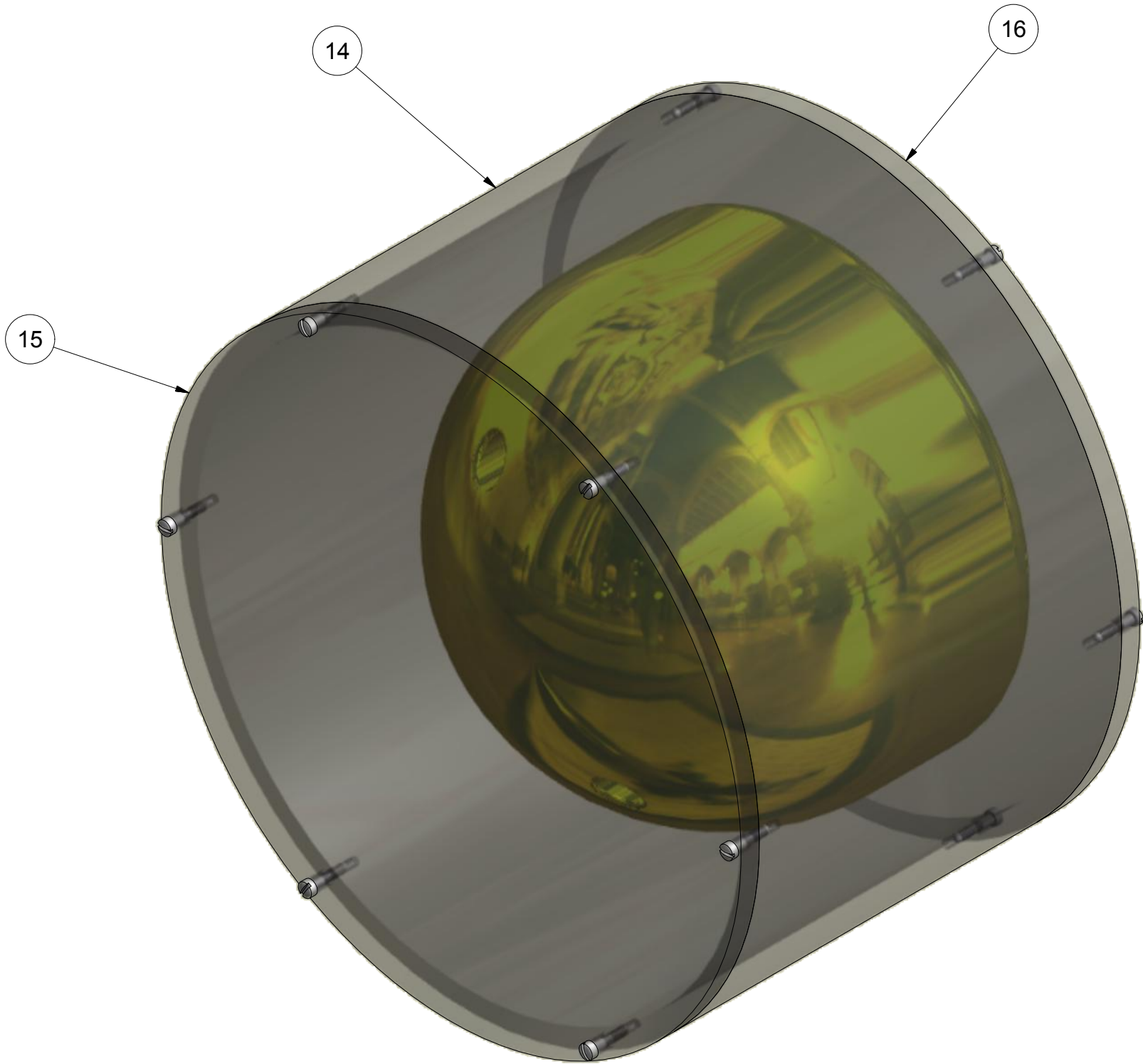
ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
CR-1	7101-109	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: 0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES $\sqrt{\text{ES}}$					
CHECKED BY: TIO	DRAWN BY: KWS	DRAWN FOR: KWS	DATE: 7/21/2010	SCALE: D	7101-109	REV. A	
APPROVED BY: KWS					SH. NO. 10 OF 14		



REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A		ADDED NEW SHEET 12	8/22/12	KWS

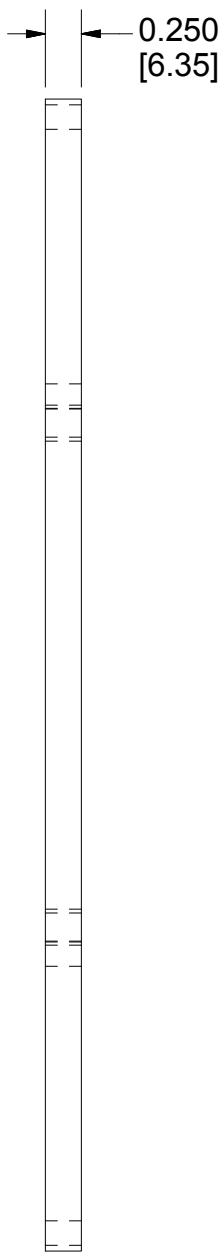
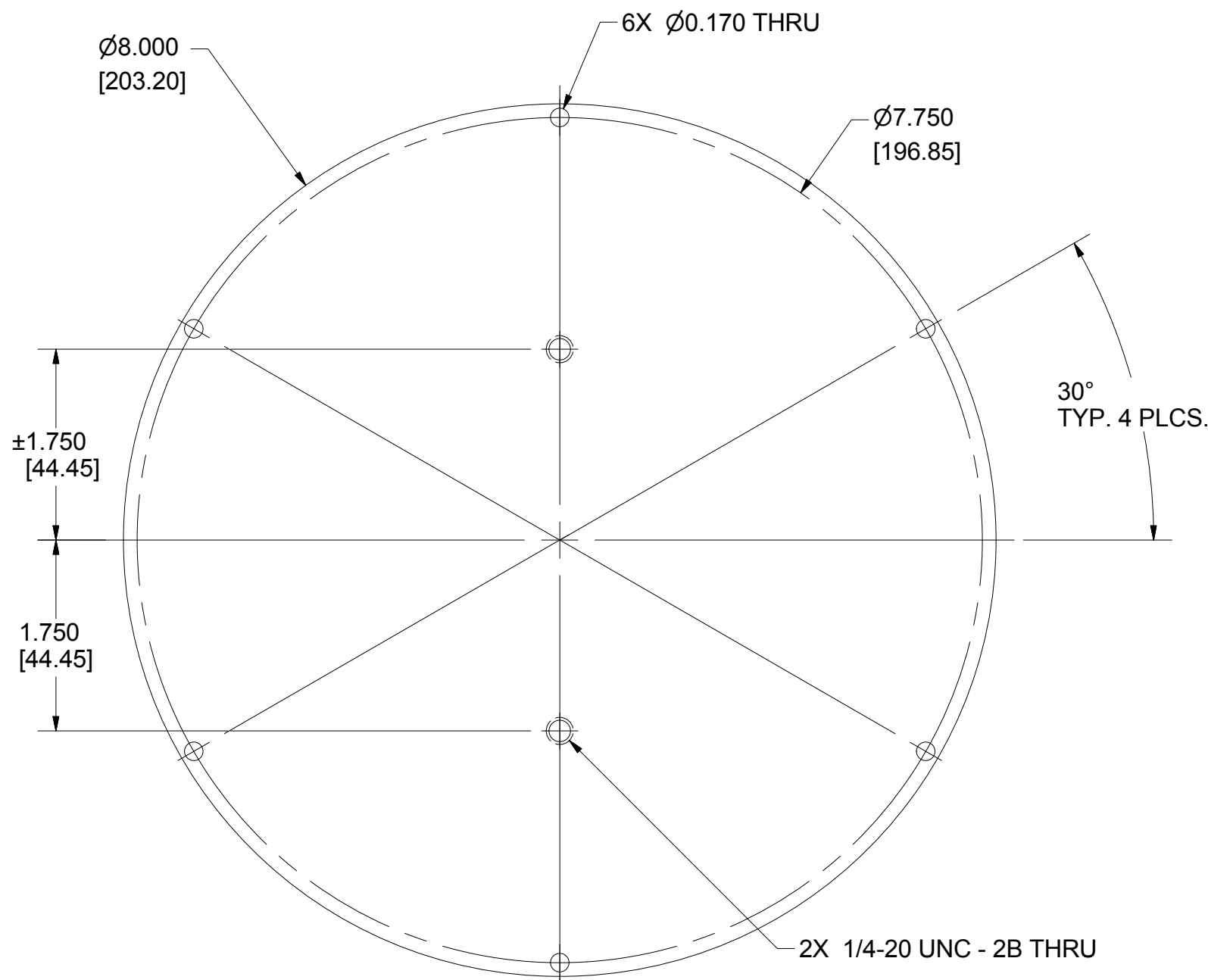
 		ITEM		DWG. NO.		DESCRIPTION			G1	G2	G3	REMARKS		REV.	
									QUANTITY						
D	PRINT DISTR.	PLOT DATE: 4/29/2014 CAD FILE NAME: 7101-109.idw													
	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: .0 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES 			<div>CORNELL UNIVERSITY  CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div> <div>Mk. 2 High Voltage Support Stalk</div>										
SH NO. 11 OF 14	7101-109	CHECKED BY: TIO			DRAWN BY KWS		DRAWN FOR KWS		DATE 7/21/2010		SCALE		D	7101-109 SH NO. 11 OF 14	REV. A
A	REV.	APPROVED BY: KWS													

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A		ADDED NEW SHEET 12.	2-22-13	KWS



14 Ball Electrode Holder Tube

FILE NAME: 7101-109
SHEET NO.: 12
DFT. SCALE: 3:4
MATERIAL: Clear Acrylic
QTY: 1
NOTES:



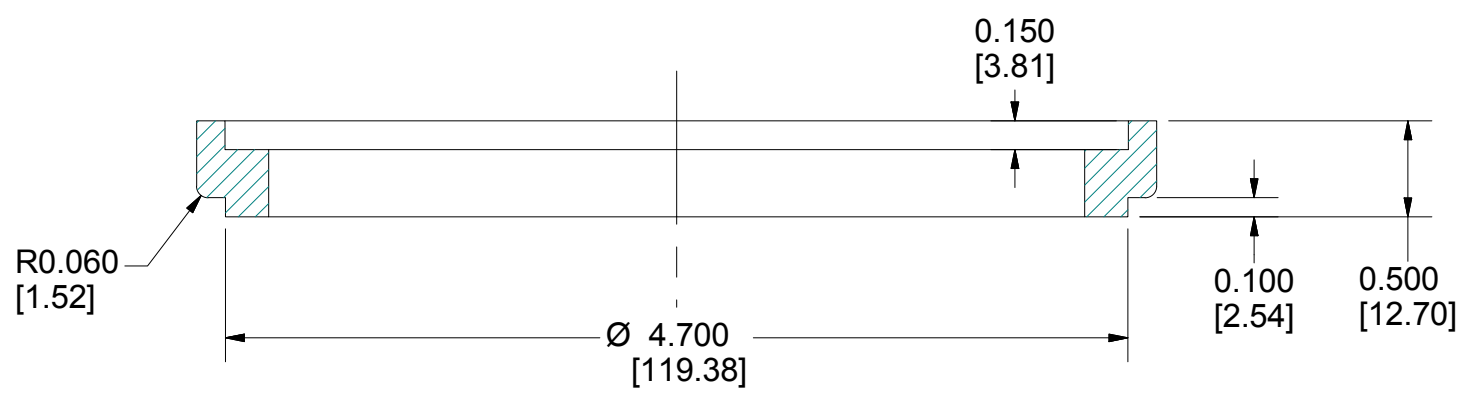
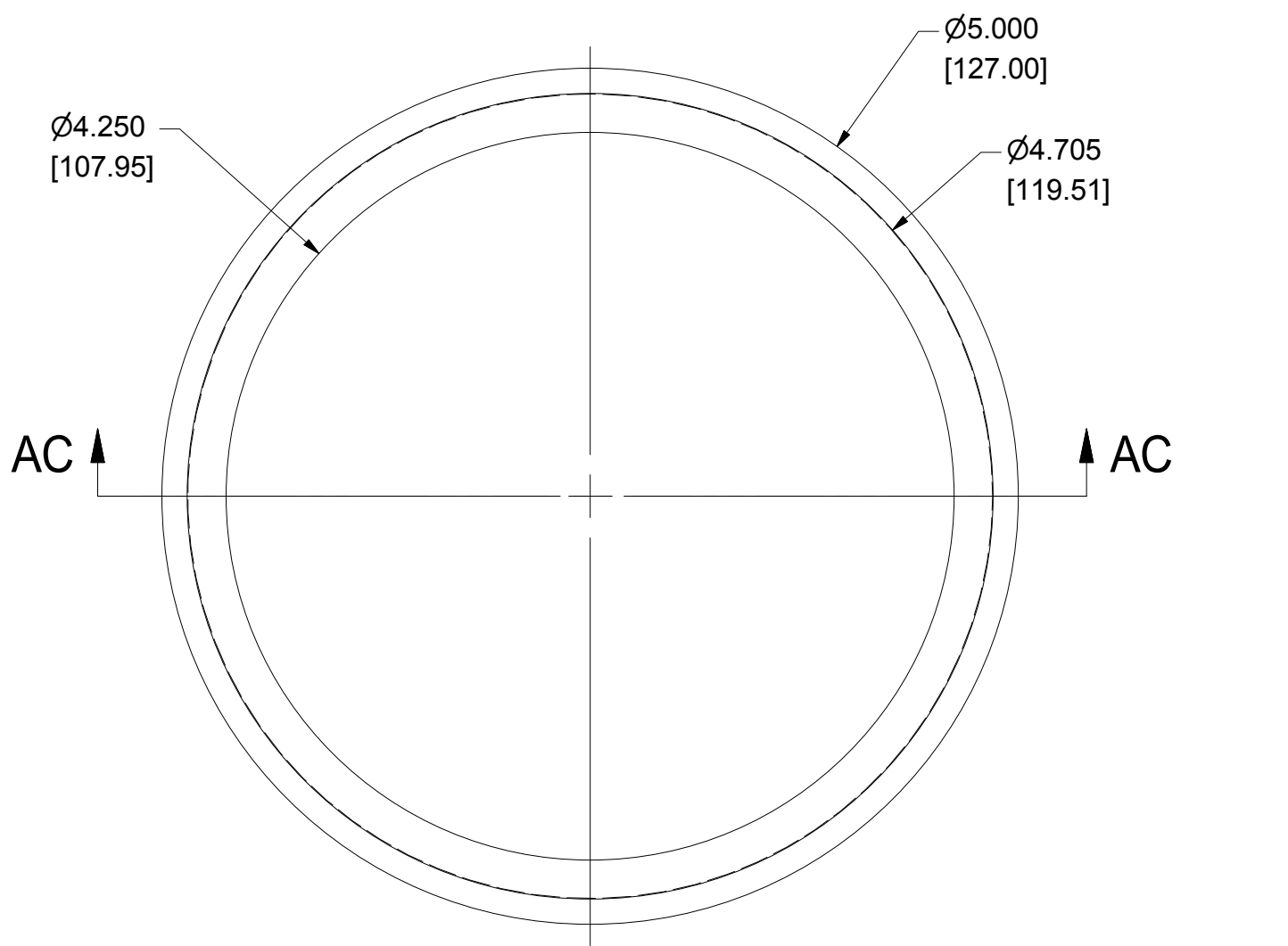
16 Ball Electrode Holder Base

FILE NAME: 7101-109
SHEET NO.: 12
DFT. SCALE: 3:4
MATERIAL: Clear Acrylic
QTY: 1
NOTES:

18	Stockroom	Slotted Machine Screw 4 - 40 x 1	12			Autodesk Inc.	9
17	Stockroom	SHCS 1/4 - 20 UNC - 3 1/4	2				
16	7101-109 Sh. 11	Ball electrode holder base	1				
15	7101-009 Sh. 10	electrode holder 1 lid - Item D.3	1				
14	7101-109 Sh. 11	Ball electrode holder tube	1				
13	7101-109 Sh. 11	HV Stalk Round Test End	1				


		ITEM	DWG. NO.	DESCRIPTION			G1	G2	G3	REMARKS		REV.
								QUANTITY				
D	PRINT DISTR.	PLOT DATE: 4/29/2014 CAD FILE NAME: 7101-109.idw										
SH. NO. 12 OF 14	7101-109	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> LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS</div> <div>Mk. 2 High Voltage Support Stalk</div>								
				CHECKED BY: TIO		DRAWN BY KWS	DRAWN FOR KWS	DATE 7/21/2010	SCALE	D	7101-109	REV. A
				APPROVED BY: KWS		SH. NO. 12 OF 14						

REVISIONS				
SYM.	ZONE	DESCRIPTION		DATE APP.
A		ADDED SHEET 14.	KWS	4/23/14 KWS



SECTION AC-AC
SCALE 1 : 1

19 As Built Spacer Ring
FILE NAME: 7101-109
SHEET NO.: 13
DFT. SCALE: 2:1
MATERIAL: Stainless Steel 316 Preferred
QTY: 1
NOTES:

		ITEM		DWG. NO.		DESCRIPTION		G1		G2		G3		REMARKS		REV.	
								QUANTITY									
D		PRINT DISTR.		PLOT DATE: 4/29/2014 CAD FILE NAME: 7101-109.idw													
7101-109 SH. NO. 13 OF 14		CR-1		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES; TOLERANCES ON: Ø ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± 1/32 ANGLES ± 0.5° ALL SURFACES		<div>CORNELL UNIVERSITY  LEPP</div> <div>CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853</div>											
						Mk. 2 High Voltage Support Stalk											
A		REV.		CHECKED BY: TIO		DRAWN BY KWS		DRAWN FOR KWS		DATE 7/21/2010		SCALE D		7101-109 SH. NO. 13 OF 14		REV. A	
				APPROVED BY: KWS													

