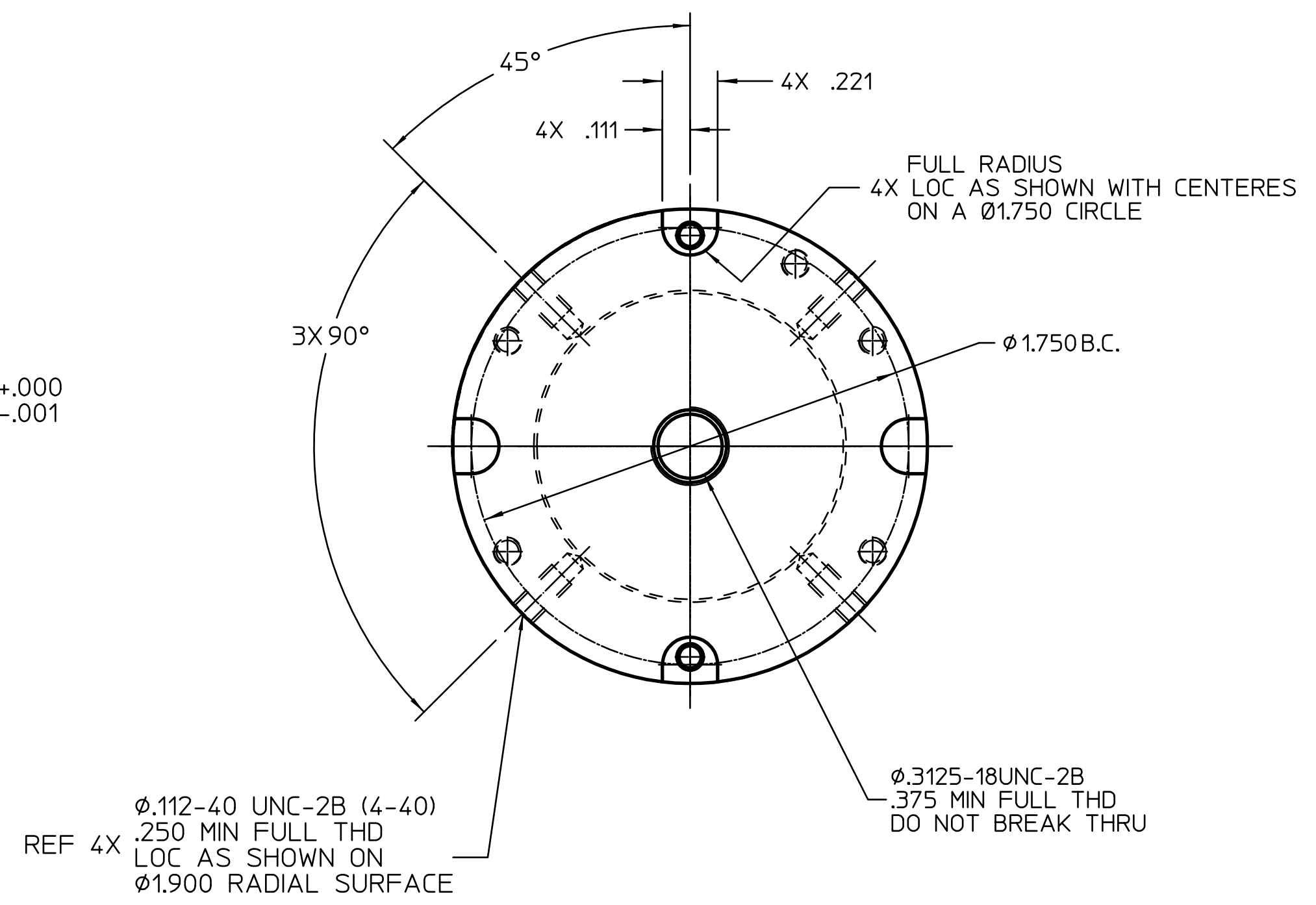
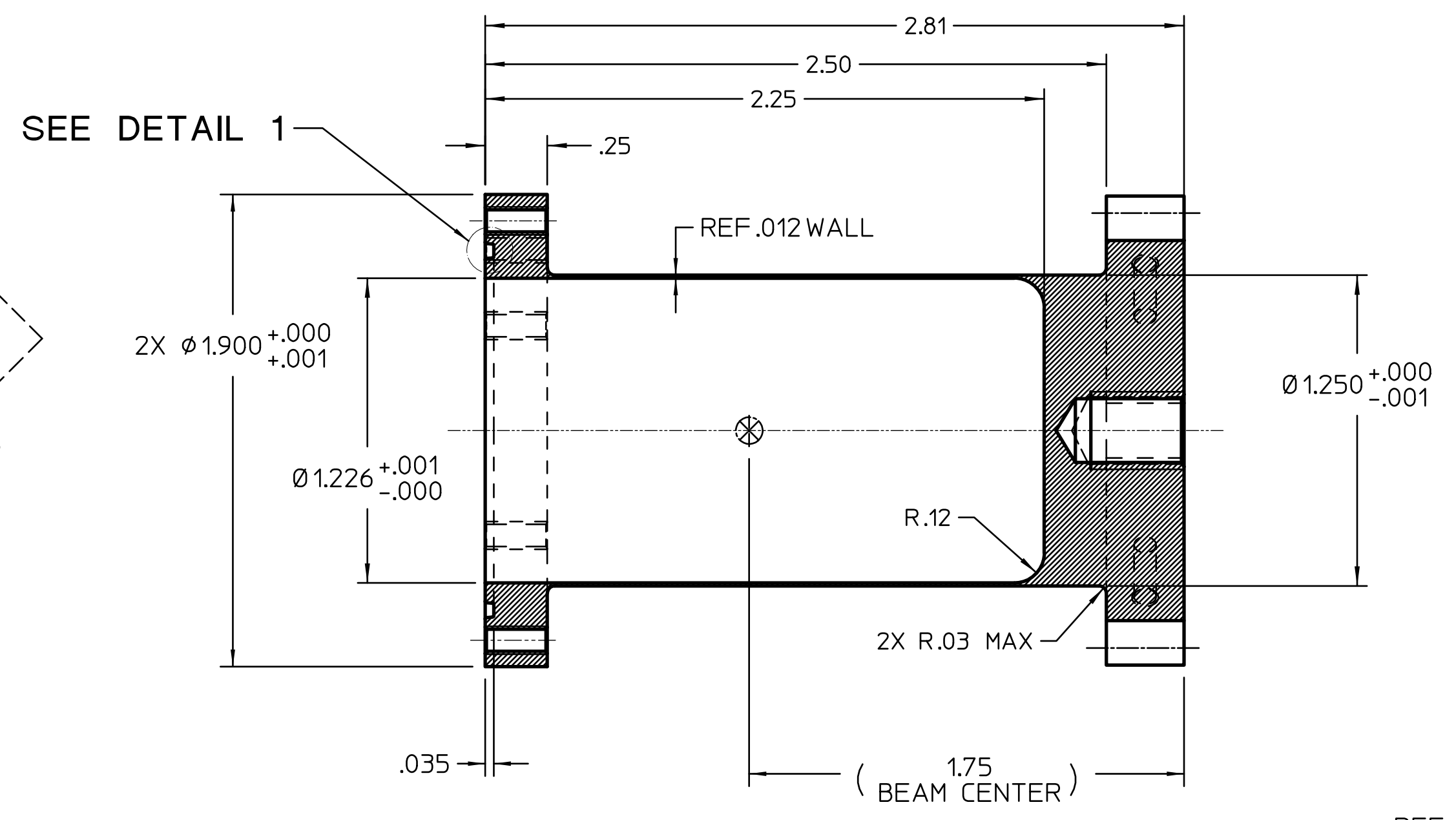
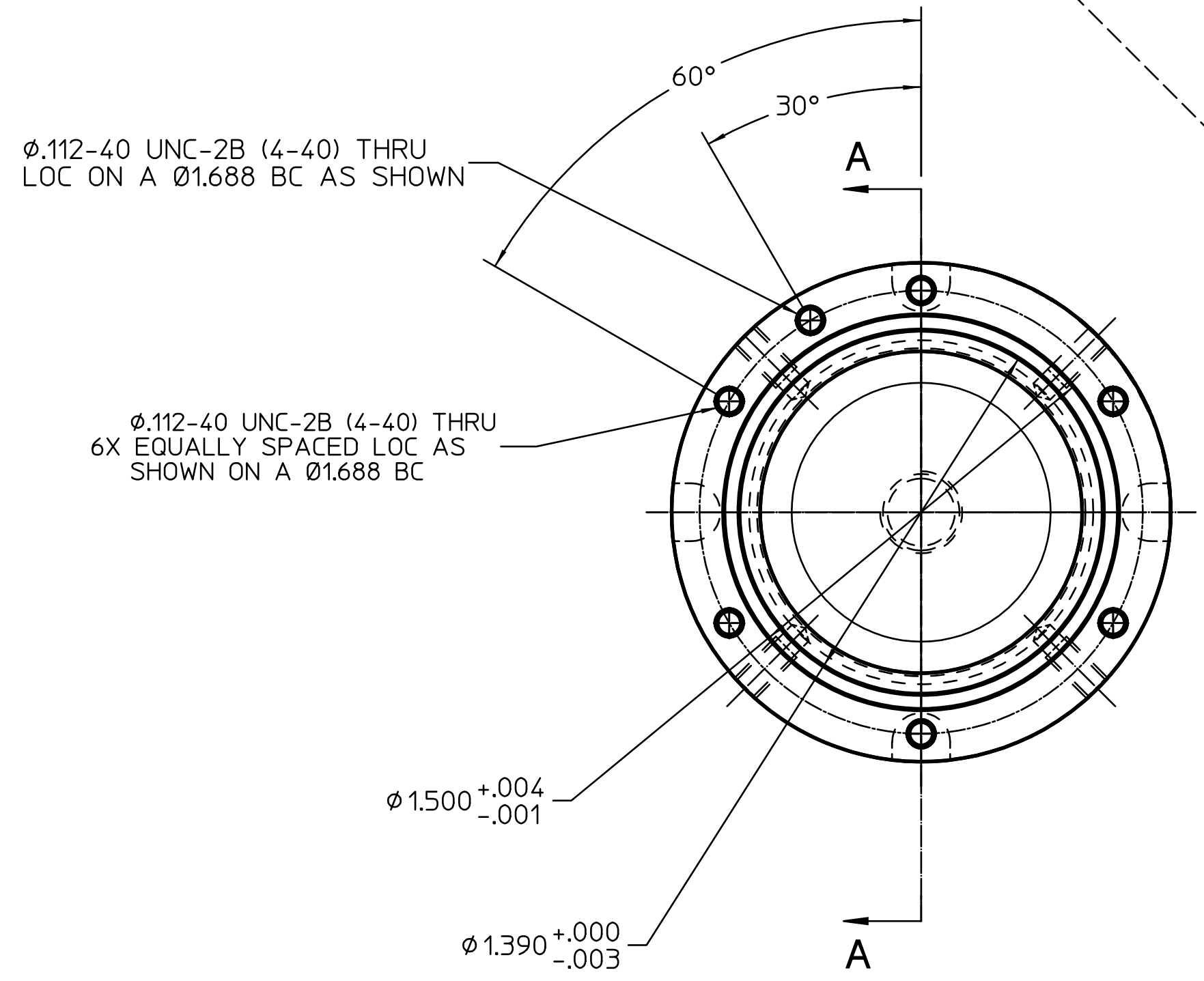
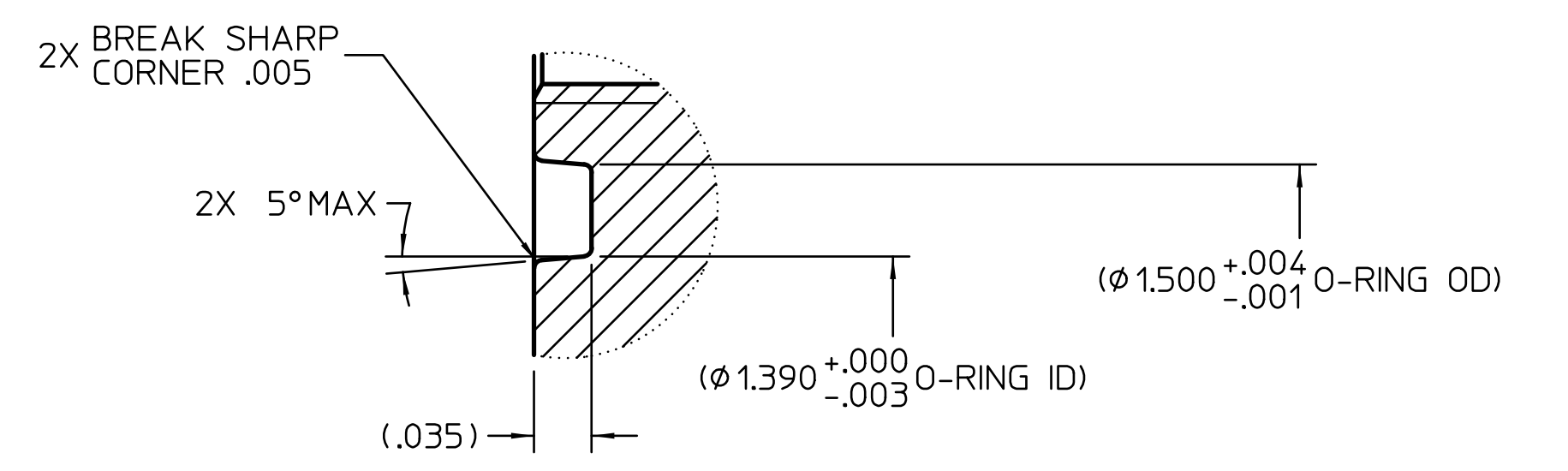
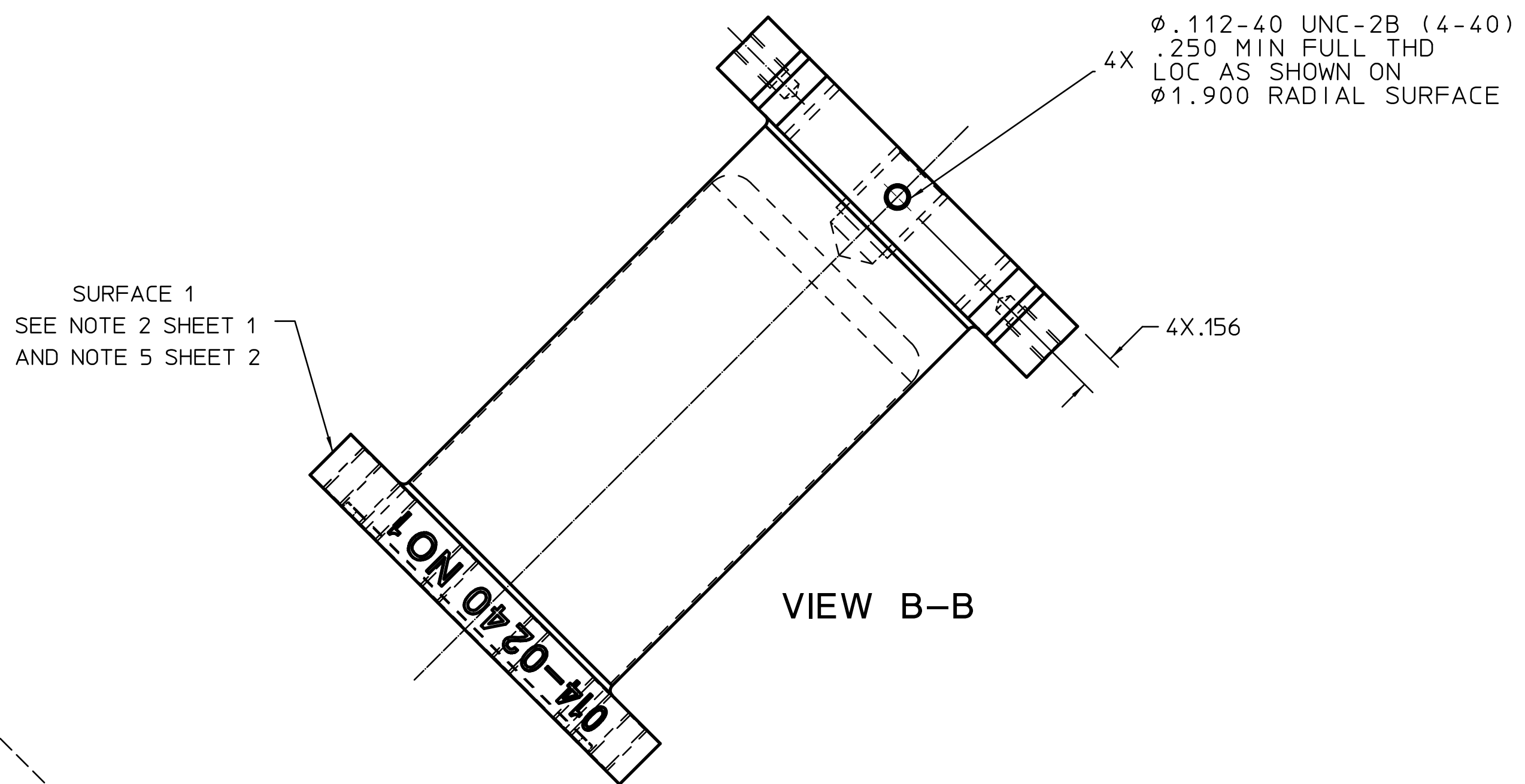
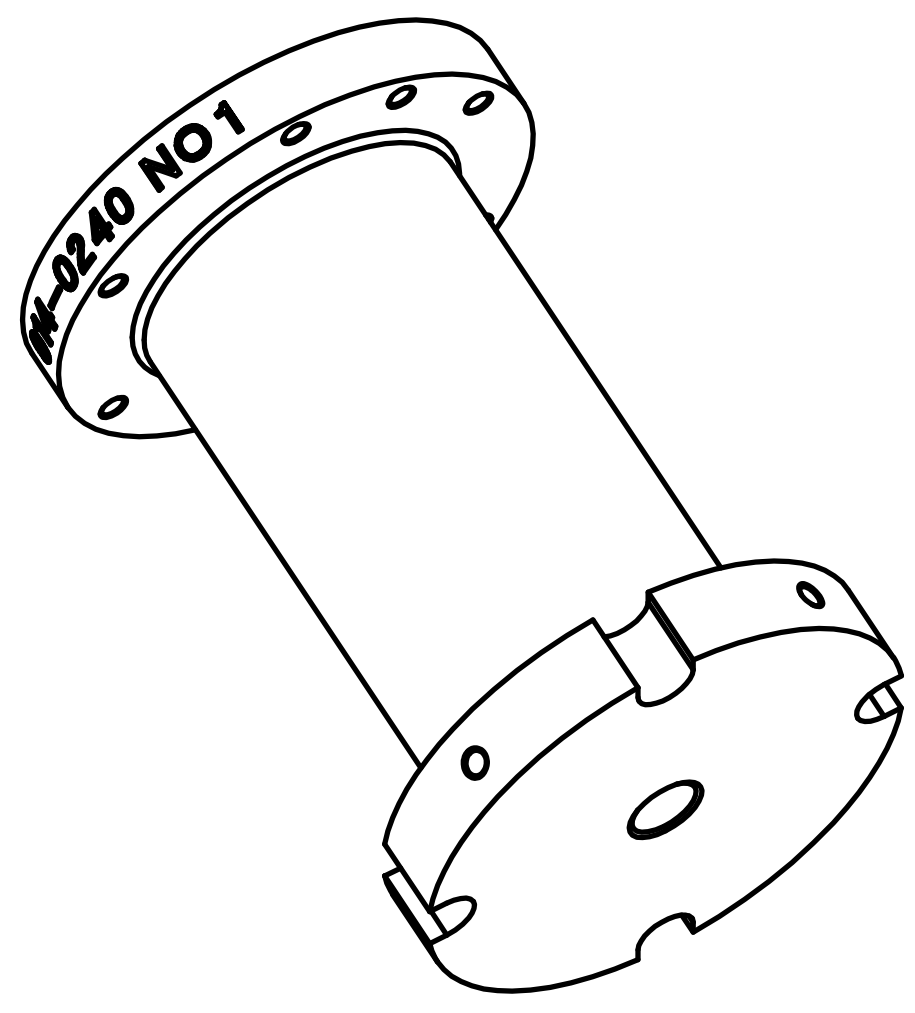


REVISIONS				
No.	ZONE	ECN	CHANGE	DATE
7	A4		REM SEQ NUMBER REQ FROM NOTE 2	2/20/15
6	D3.5		ADDED SURFACE NOTATION AND SHEET 2 W/ NOTES	2/20/13

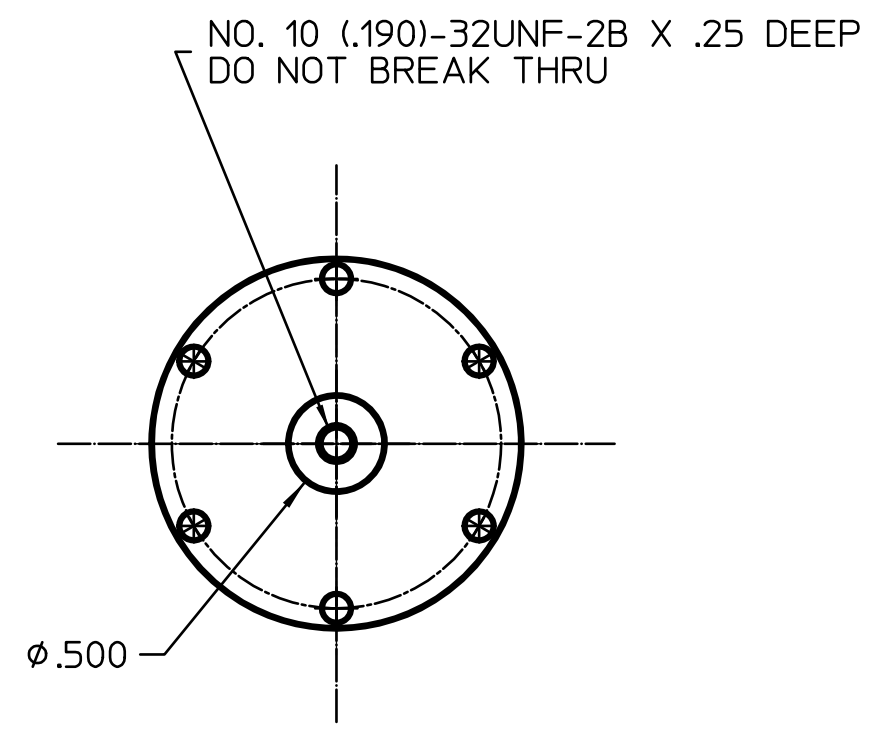
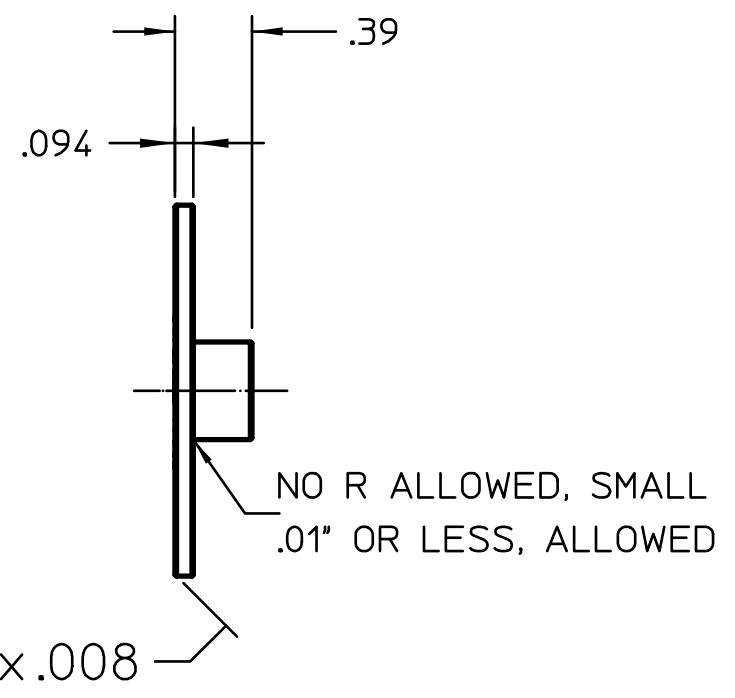
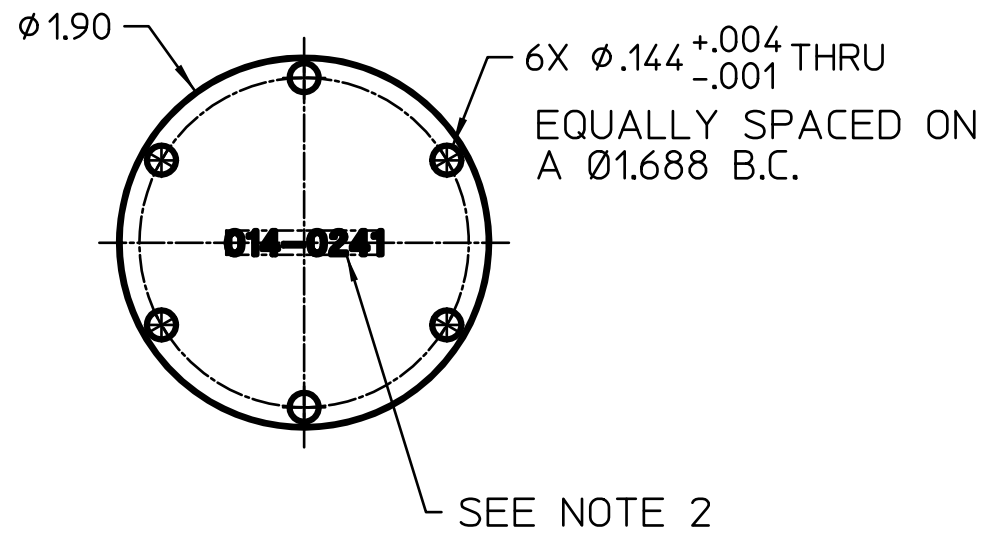


SECTION A-A

- NOTES:
1. UNLESS OTHERWISE SPECIFIED BREAK ALL SHARP EDGES .005 - .010
 2. SCRIBE, *014-0240-7* USING .125 HIGH CHARACTERS, LOCATED ON THE Ø1.90 RADIAL SURFACE AS INDICATED. NOTE 3 NOT APPLICABLE WITH SURFACE AREA 1.
 3. ALL SURFACES $\sqrt{32}$ UNLESS OTHERWISE SPECIFIED
 4. USE WITH PART NUMBERS 014-0241 AND 014-0242

MATERIAL SPECIFICATION		DRAWING APPROVALS		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		NIST		CENTER FOR NEUTRON RESEARCH	
ALUMINUM, 6061-T6		APPROVED BY: DATE		TOLERANCES ARE:		National Institute of Standards and Technology		50 BUREAU DRIVE	
FORM: SIZE		RELEASED BY: DATE		DECIMALS FRACTIONS		Technology Administration, U.S. Department of Commerce		GAITHERSBURG, MD 20899	
MODEL DATA		DRAWING DATA		XXX +.005 XX +.01 XX .45		DO NOT SCALE DRAWING		BODY - SINGLE CRYSTAL SAMPLE CAN	
MODEL NAME: body_single_crystal_sample_can		STATE: work		DATE: 2/20/15 4:32 PM		THIRD ANGLE PROJECTION		SAMPLE CAN ASSEMBLY, 01.25 OUTSIDE	
CREATOR: 7/20/00 12:00 AM		VERSION: 7		SHEETS: 2		SCALE: 2:1		SIZE: D DWG NO: 014-0240	
DRAFTER: cdm		DATE: 2/20/15 4:32 PM		ENGINEER: cdm		RELEASE DATE:		SHEET: 1 of 2	
LAST UPDATE BY: cdm		DATE: 2/20/15 4:33 PM		PHONE: (301) 975-8364		CALC. WT.:		DIM. & TOL. PER ANSI Y14.5M-1982	

REVISIONS				
No.	ZONE	ECN	CHANGE	DATE
3	ALL		ADDED SH 2 - BAR CODE & LABEL	3/16/18
3	B2		FIXED DIM, ADD CHAM DIM & NOTE	3/16/18
3	A2		MODIFIED NOTE	1/15/04



- NOTES:**
- BREAK ALL SHARP EDGES .005 TO .015.
 - MILL DRAWING NUMBER .125 HIGH APPROX WHERE SHOWN.
 - UNLESS OTHERWISE SPECIFIED
ALL SURFACES TO BE 32 ✓
 - USE WITH PART NUMBERS 014-0240 AND 014-0242

MATERIAL SPECIFICATION		APPROVALS	
MATERIAL ALUMINUM, 6061-T6	APPROVED BY:	DATE	
FORM SIZE	RELEASED BY:	DATE	
MODEL DATA		DRAWING DATA	
MODEL NAME lid_single_crystal_sample_can	STATE work	DATE 3/15/18 1:28 PM	
CREATOR 7/20/00 12:00 AM	VERSION 3	SHEETS	
	DRAFTER colin	DATE 3/15/18 1:28 PM	ENGINEER
	LAST UPDATE BY colin	DATE 3/16/18 10:25 AM	PHONE #

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
DECIMALS .XXX ±.005 FRACTIONS ±.015
.XX ±.01
ANGLES ±.5

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

NIST
National Institute of Standards and Technology
Technology Administration, U.S. Department of Commerce

CENTER FOR NEUTRON RESEARCH
100 BUREAU DRIVE
GAITHERSBURG, MD. 20899

LID - SINGLE CRYSTAL SAMPLE CAN

FOR SAMPLE CAN ASSEMBLY, 01.25 OUTSIDE

SIZE **B** DWG No. **014-0241** REV **3**

SCALE 1:1 RELEASE DATE SHEET 1 of 2

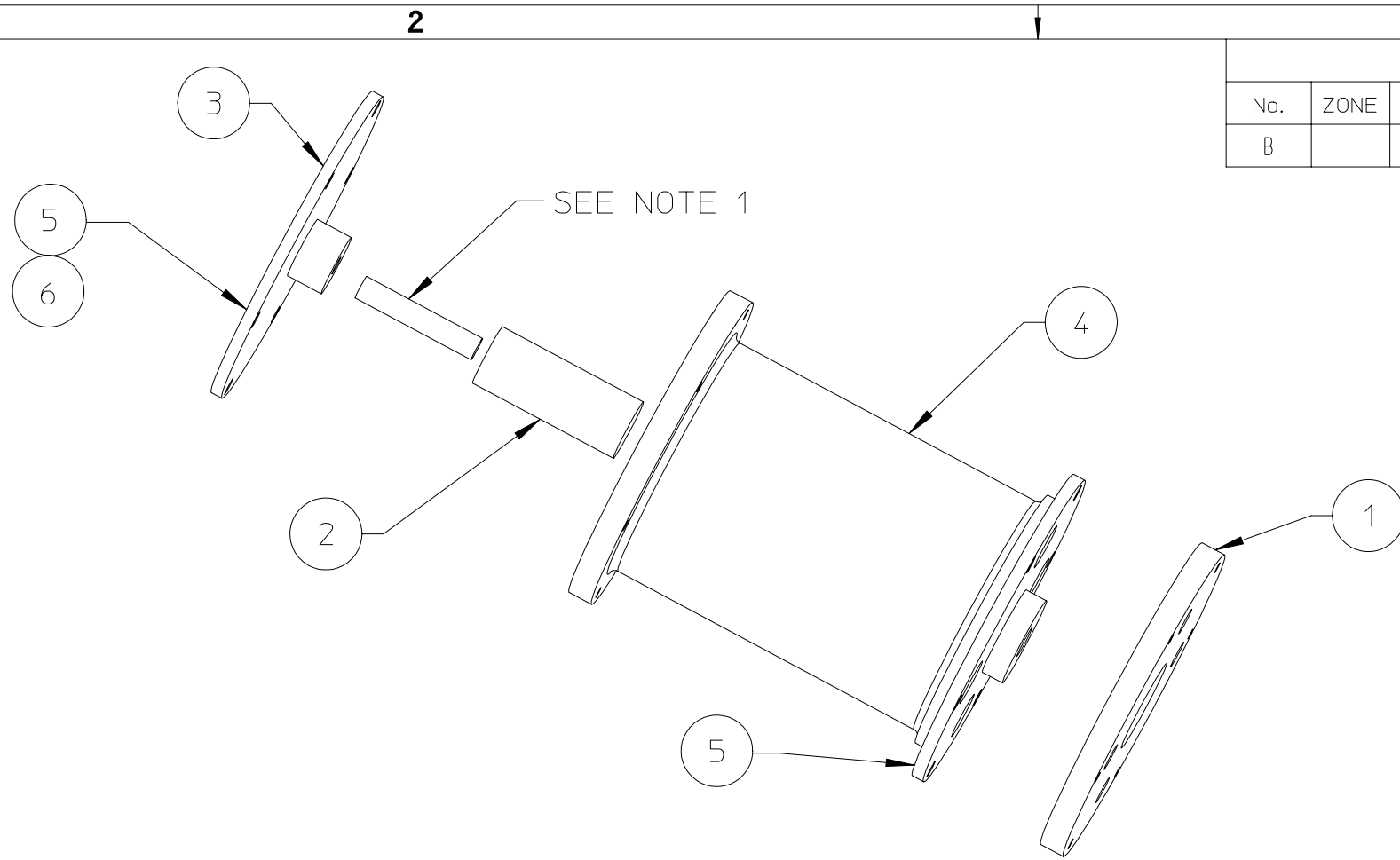
CALC. WT. ACT. WT. DIM. & TOL. PER ANSI Y14.5M-1982

2

1

2

1



REVISIONS				
No.	ZONE	ECN	CHANGE	DATE
B			ADDED BEAM CENTER NOTE 3	

NOTES:

- CONNECTION BETWEEN SHALL BE A NO. 10(.190)-32UNF THREADED ROD, LENGTH TO BE DETERMINED BY FIELD USER.
- APPLY CRYOGENICS INDIUM GASKET MATERIAL APPROX Ø.060 AS REQUIRED TO GROOVE PRIOR TO ADDING ITEMS 5 & 6.
- FOR REFERENCE ONLY. NOT FOR MANUFACTURE. BEAM CENTER LOCATION SHALL BE 1.75 INCHES HIGH LOCATED FROM THE BOTTOM SURFACE OF CAN

QTY	PART No.	SUPPLIER PART No.	SUPPLIER	DESCRIPTION	MATERIAL	ITEM
6	-	91102A005	MCMaster-CARR SUPPLY CO	WASHER, LOCK NO.4	STEEL, ZINK PLATED	6
12	-	91251A106	MCMaster-CARR SUPPLY CO.	SCREW, Ø.112-40 X .25 L. SOC HD	ALLOY STEEL	5
1	014 - 0244			BODY, SAMPLE CAN	ALUMINUM, 6061-T6	4
1	014 - 0245			LID, SAMPLE CAN	ALUMINUM, 6061-T6	3
1	014 - 0248			CONNECTOR, SAMPLE CAN	ALUMINUM, 6061-T6	2
1	014 - 0249			PLATE, CONNECTION	ALUMINUM, 6061-T6	1

BOM:

MATERIAL SPECIFICATION		APPROVALS		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: DECIMALS .XXX ±.005 FRACTIONS ±.015 .XX ±.01 ANGLES ±.5	NIST National Institute of Standards and Technology Technology Administration, U.S. Department of Commerce	CENTER FOR NEUTRON RESEARCH 100 BUREAU DRIVE GAITHERSBURG, MD. 20899
MATERIAL	ENGR	DATE				
SIZE	MATERIAL FORM	ENGR MNGR	DATE			
CAD DATA		ANNOTATION DRAWING DATA		DO NOT SCALE DRAWING		
PART NAME		STATE	DATE	THIRD ANGLE PROJECTION		
CREATOR		work	7/24/00 1:26 PM			
DATE		VERSION	SHEETS	FOR		
John Bailey		B		SIZE	DWG No.	REV
DATE		DRAFTER	DATE	B	014-0243	B
work				SCALE	RELEASE DATE	NEXT ASSY.
7/20/00 2:41 PM				1:1		
LAST UPDATE BY		LAST UPDATE BY	DATE	ENGINEER	CALC. WT.	ACT. WT.
john		john	6/19/02 11:38 AM	John Bailey		
				PHONE #	DIM. & TOL. PER ANSI Y14.5M-1982	
				(301) 975-5116		

B

B

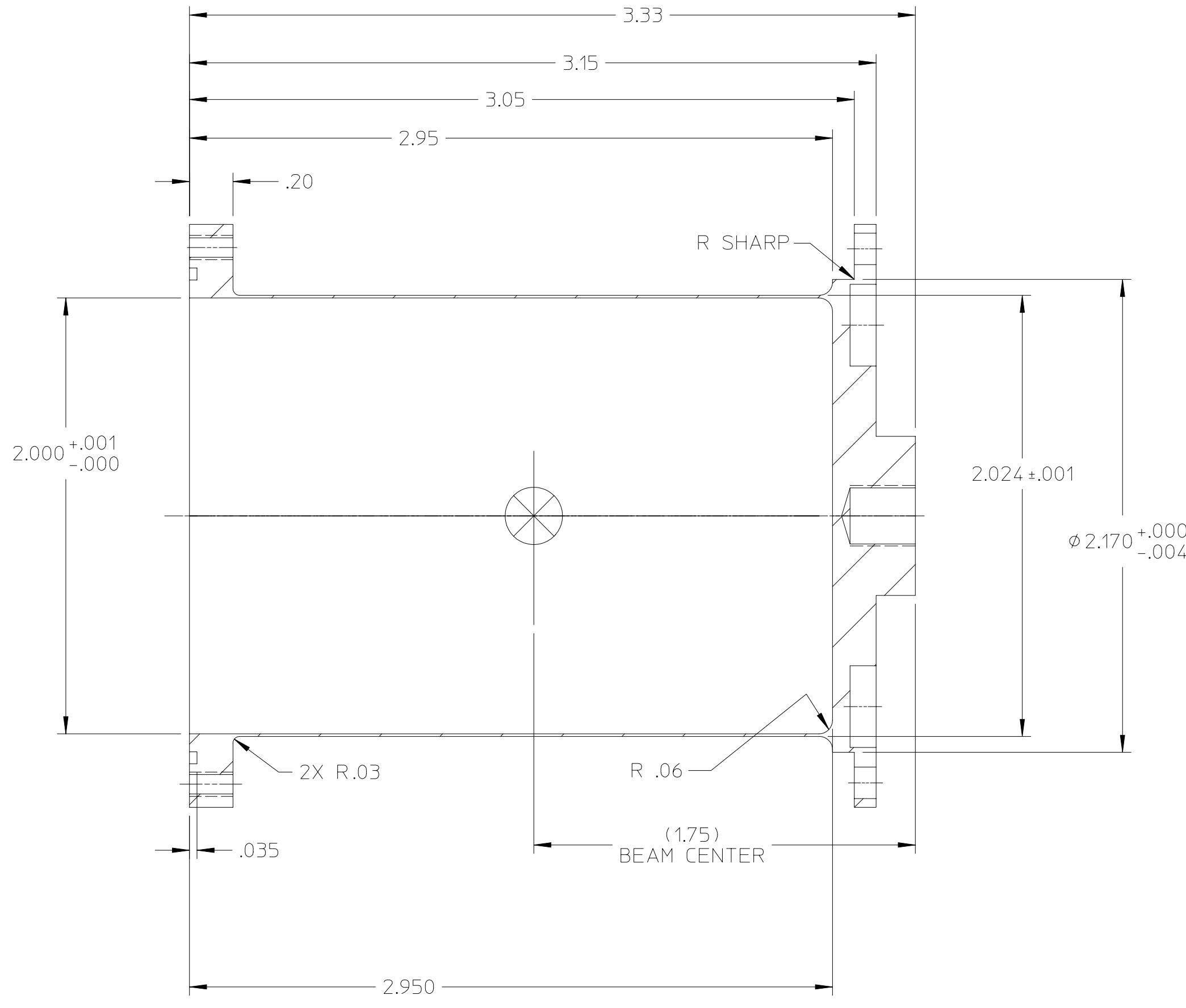
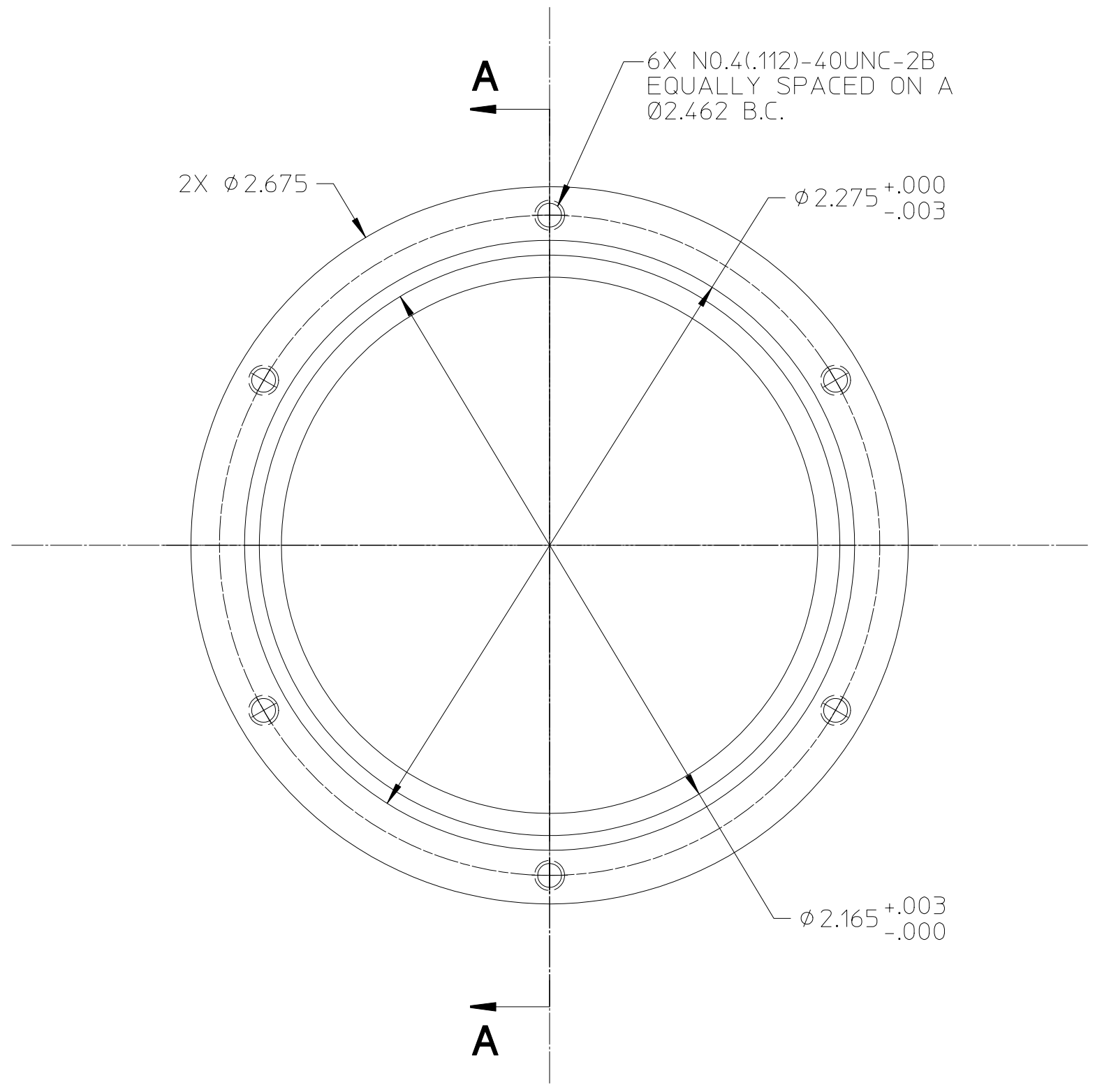
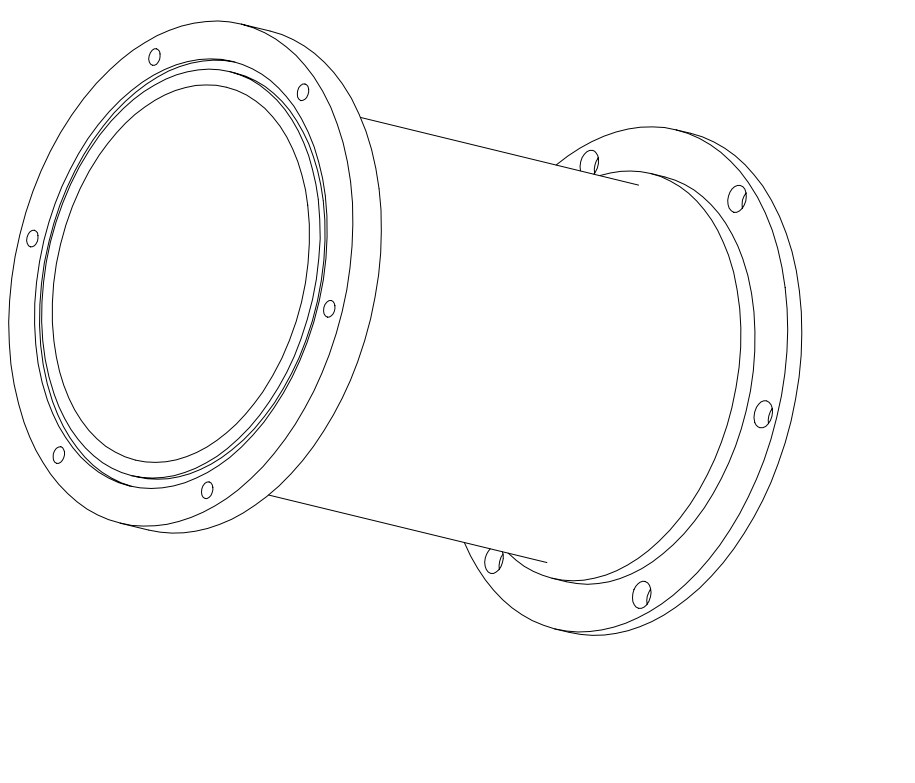
A

A

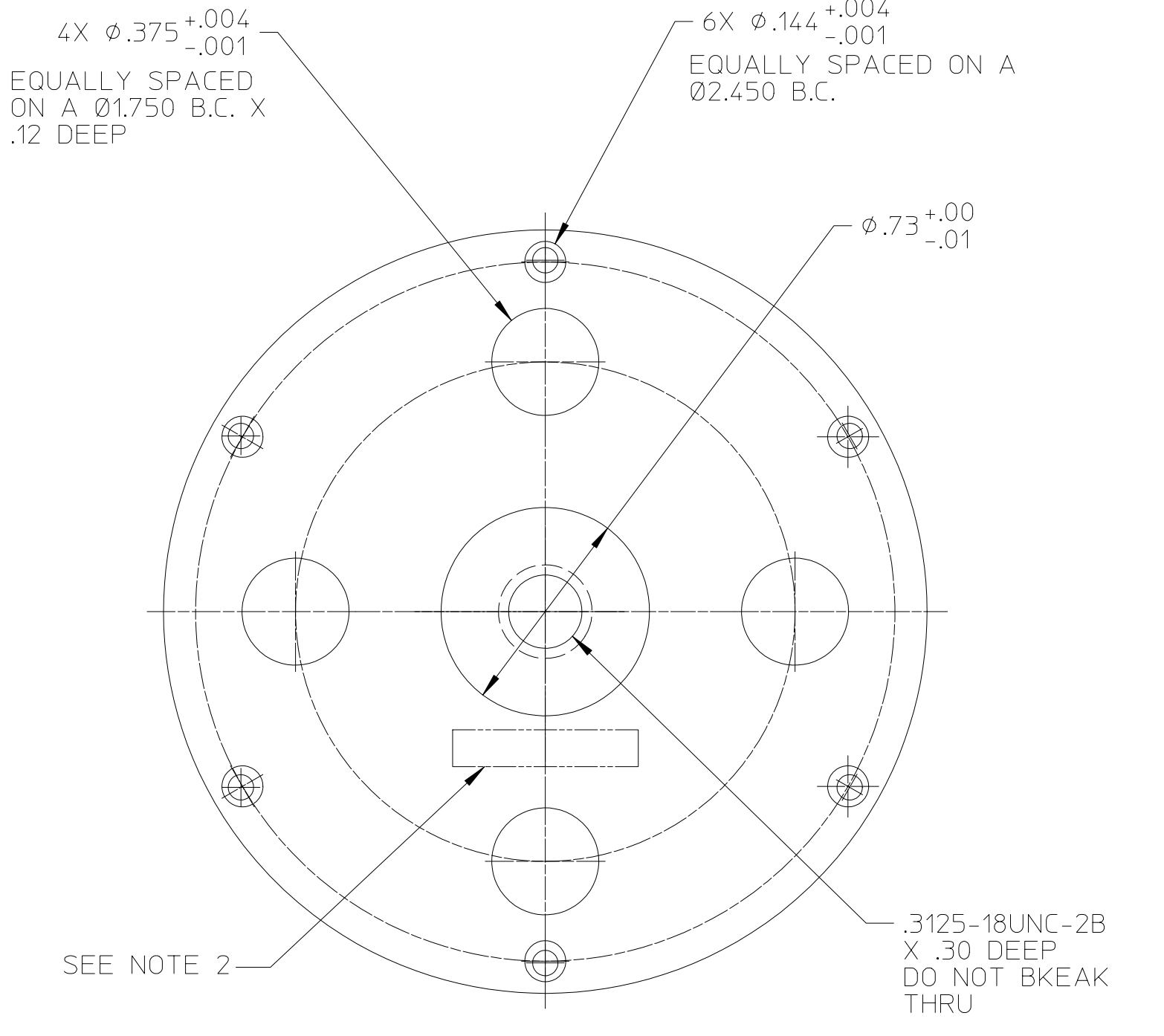
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1

REVISIONS				
No.	ZONE	ECN	CHANGE	DATE
B			GENERAL REVISION	



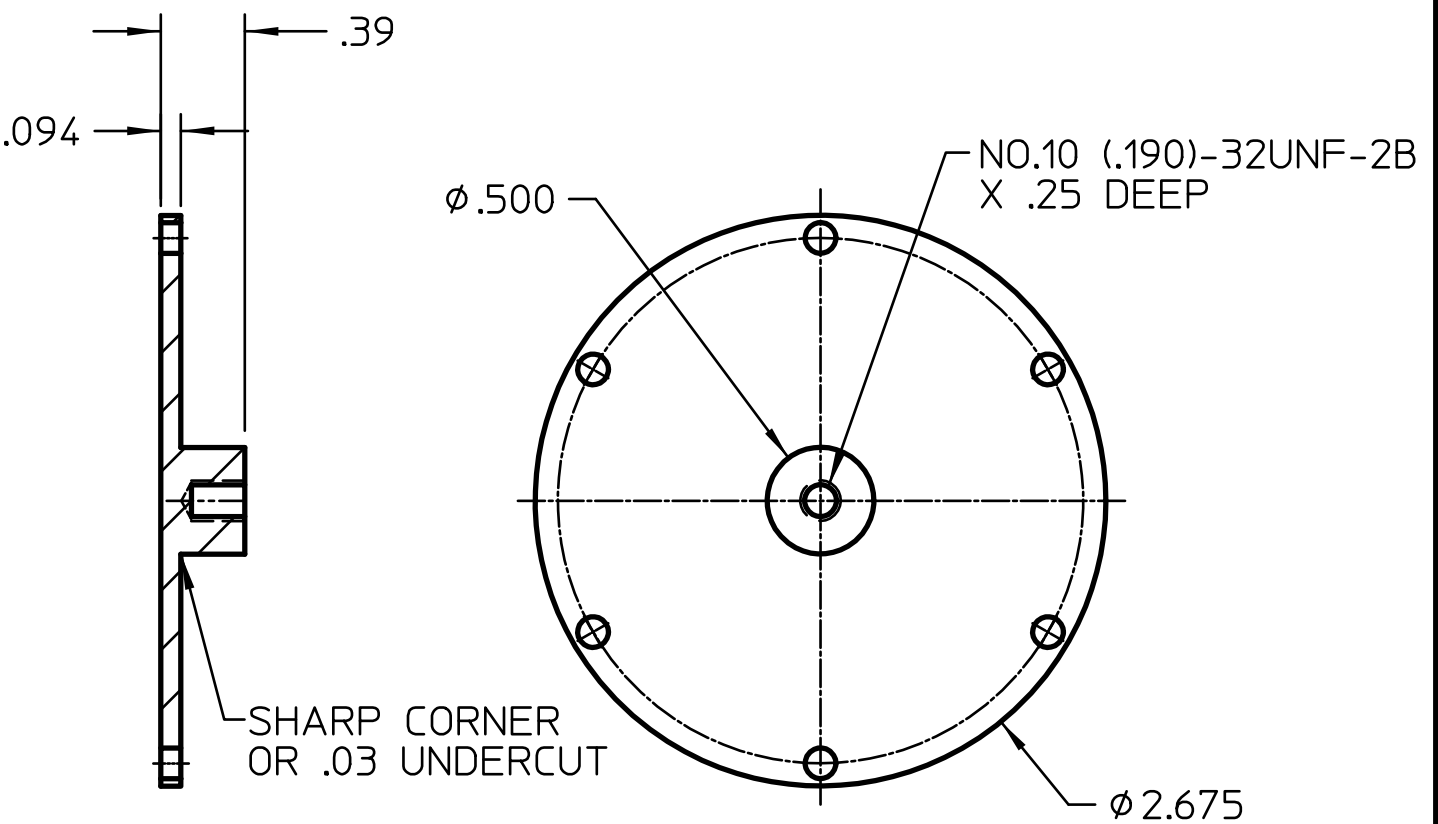
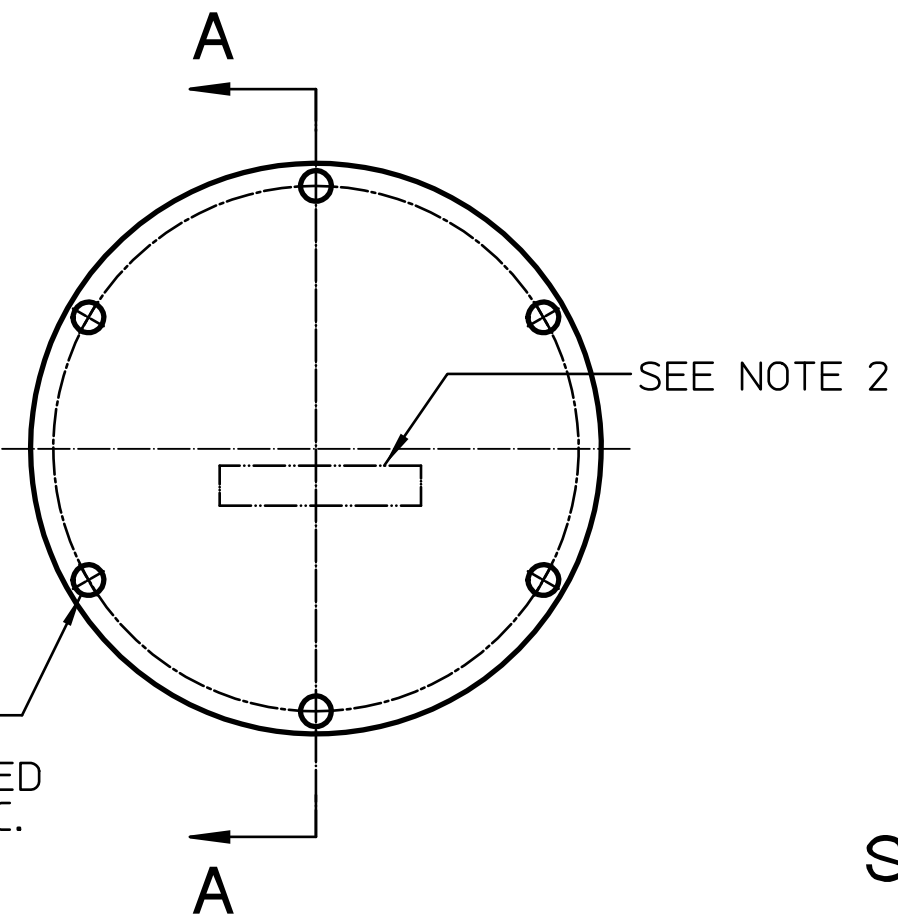
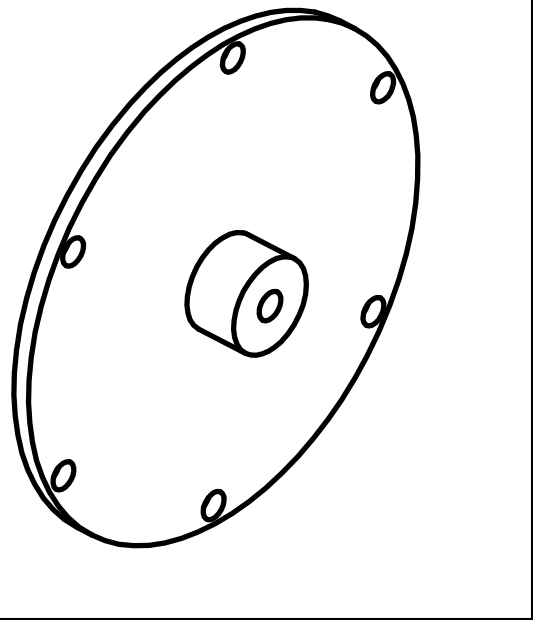
SECTION A-A



- NOTES:
- BREAK ALL SHARP EDGED .005 TO .015. DO NOT TUMBLE CAN.
 - SCRIBE DRAWING NUMBER .125 HIGH, APPROX WHERE SHOWN.

MATERIAL SPECIFICATION		APPROVALS		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		NIST National Institute of Standards and Technology Technology Administration, U.S. Department of Commerce		CENTER FOR NEUTRON RESEARCH 100 BUREAU DRIVE GATHERSBURG, NO. 20899	
MATERIAL ALUMINUM, 6061-T6	ENGR	ENGR	DATE	STATE	DATE	DECIMALS	FRACTIONS	BODY, SAMPLE CAN	
SIZE	MATERIAL FORM	ENGR MNGR	DATE	DATE	DATE	XXX	+0.05	FOR SAMPLE CAN ASSEMBLY, 02.0 INSIDE	
CAD DATA		ANNOTATION DRAWING DATA		DO NOT SCALE DRAWING		XX	+0.15	SIZE D DWG No. 014-0244	
PART NAME	STATE	DATE	DATE	THIRD ANGLE PROJECTION	DATE	XX	+0.15	REV B	
CREATOR John Bailey	DATE 07/20/00	VERSION B	SHEETS	THIRD ANGLE PROJECTION	DATE 7/24/00 9:28 AM	ANLES	+5	SCALE 2:1	
STATE Work	DATE 7/20/00 2:37 PM	DRAFTER	DATE	ENGINEER	DATE 6/20/02 3:20 PM	NEXT ASSY.		SHEET 1 of 1	
LAST UPDATE BY john	DATE 7/24/00 9:29 AM	LAST UPDATE BY john	DATE 6/20/02 3:20 PM	PHONE	John Bailey (301) 975-8364		ACT. WT.	DIM. & TOL. PER ANSI Y14.5M-1982	

REVISIONS				
No.	ZONE	ECN	CHANGE	DATE
2	B2		MOVED PART LABEL, SH 1	3/16/18

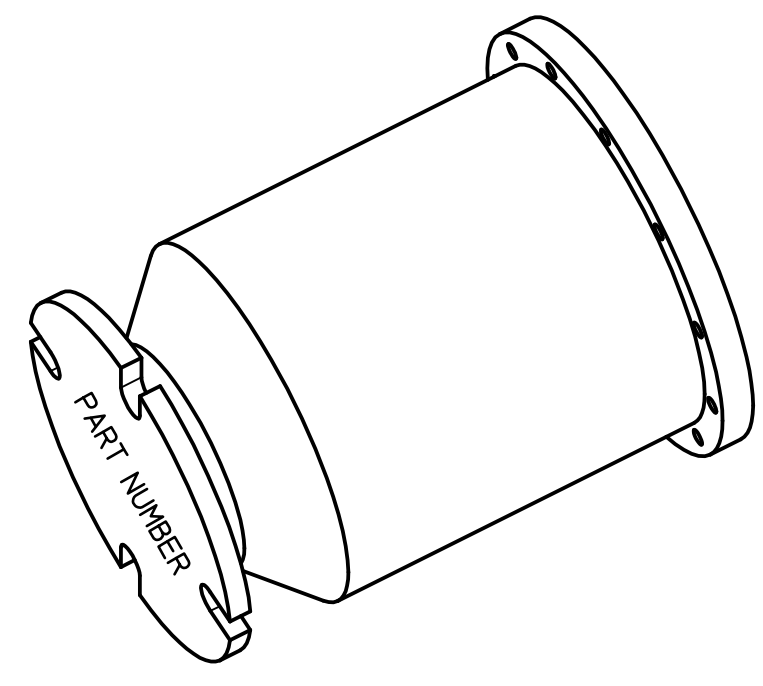
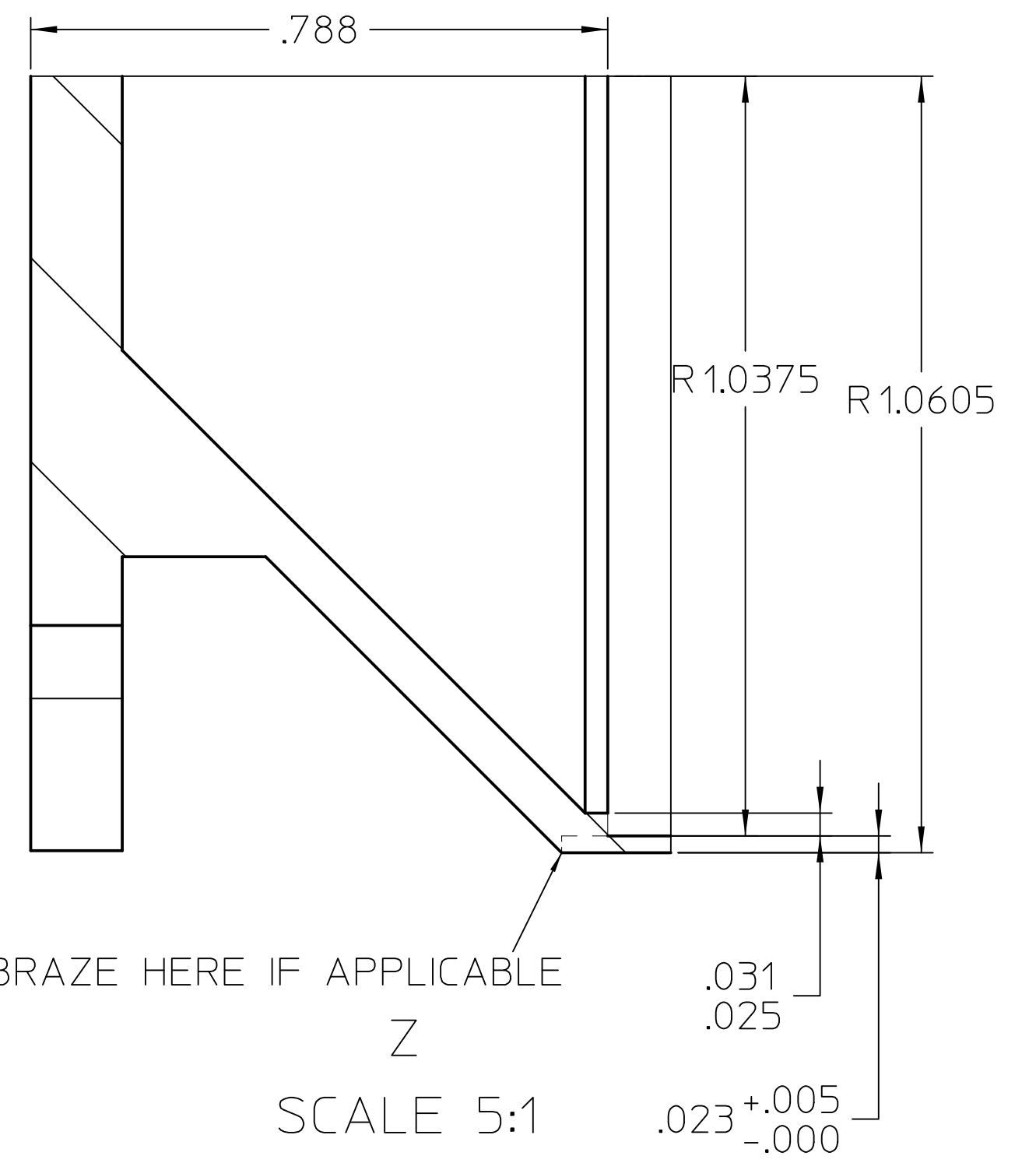
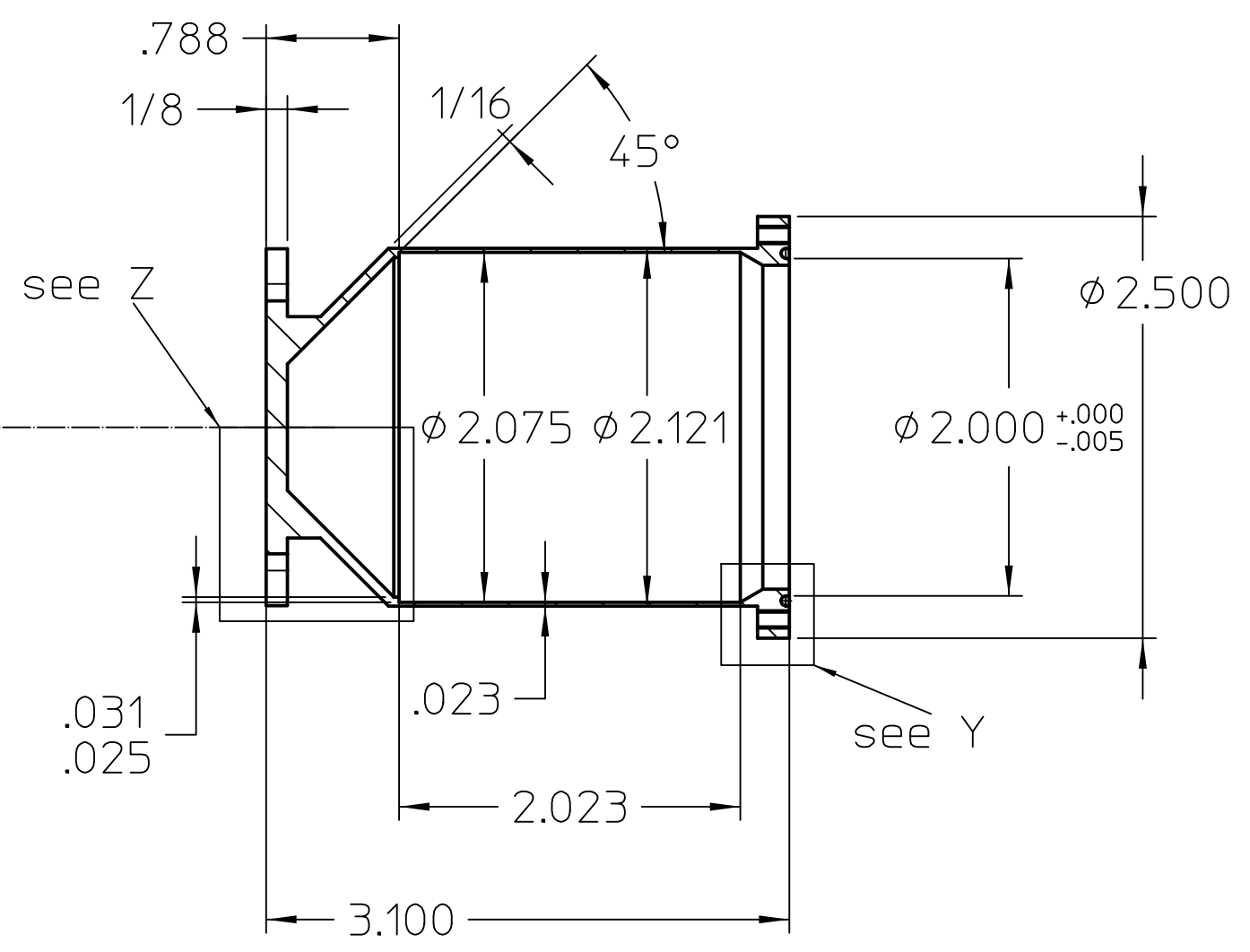
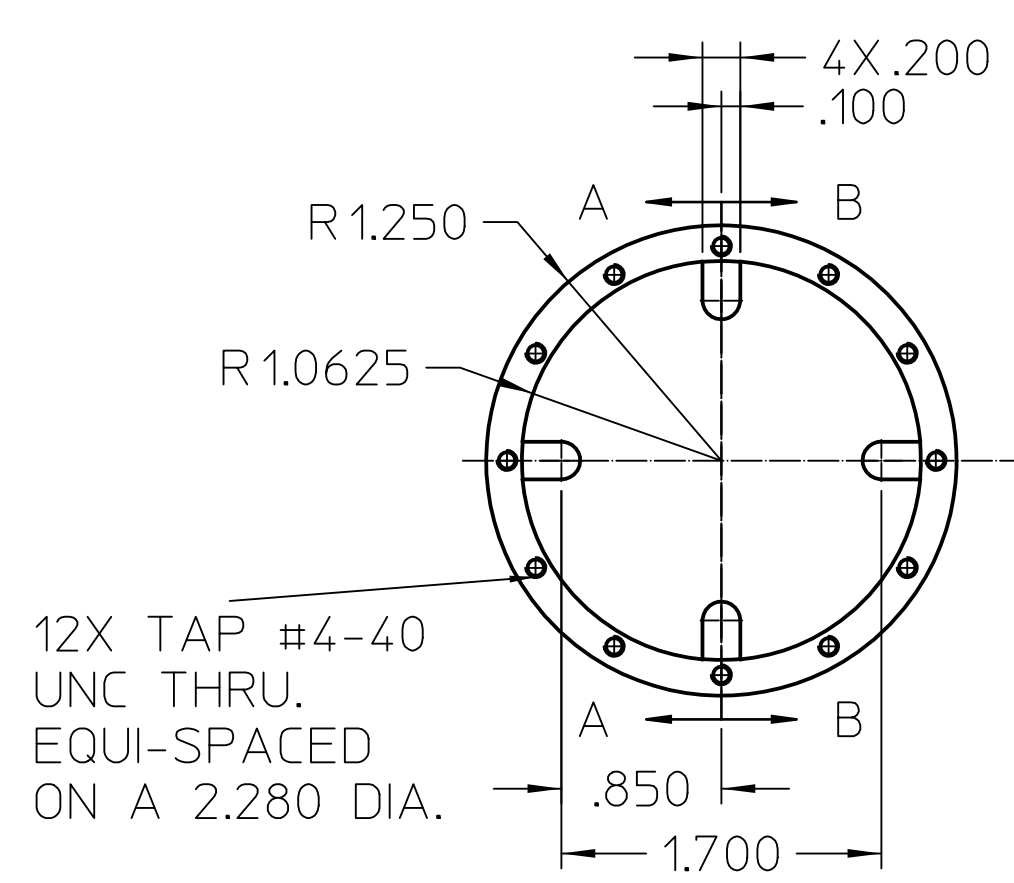


SECTION A-A

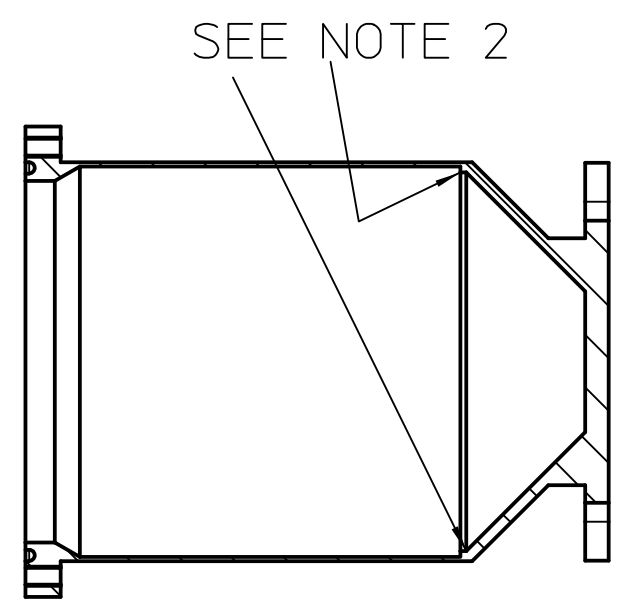
- NOTES:
- BREAK ALL SHARP EDGES .005 TO .015.
 - MILL DRAWIND NUMBER .125 HIGH, APPROX WHERE SHOWN.

MATERIAL SPECIFICATION		APPROVALS		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE : DECIMALS .XXX ±.005 FRACTIONS ±.015 .XX ±.01 ANGLES ±.5	 National Institute of Standards and Technology Technology Administration, U.S. Department of Commerce	CENTER FOR NEUTRON RESEARCH		
MATERIAL ALUMINUM, 6061-T6	ENGR	DATE				100 BUREAU DRIVE GAITHERSBURG, MD, 20899		
SIZE	MATERIAL FORM	ENGR MNGR	DATE		LID, SAMPLE CAN FOR SAMPLE CAN ASSEMBLY. 02.0 INSIDE			
CAD DATA		ANNOTATION DRAWING DATA						
PART NAME	STATE	DATE		DO NOT SCALE DRAWING		SIZE B DWG No. 014-0245 REV 2		
CREATOR John Bailey	DATE 07/20/00	VERSION	SHEETS	THIRD ANGLE PROJECTION		SCALE 1:1 RELEASE DATE		
STATE work	DATE 7/20/00 12:37 PM	DRAFTER	DATE			NEXT ASSY.		
ENGINEER John Bailey	PHONE # (301) 975-8364	LAST UPDATE BY colin		DATE 3/16/18 10:50 AM		SHEET 1 of 2		
DIM. & TOL. PER ANSI Y14.5M-1982								

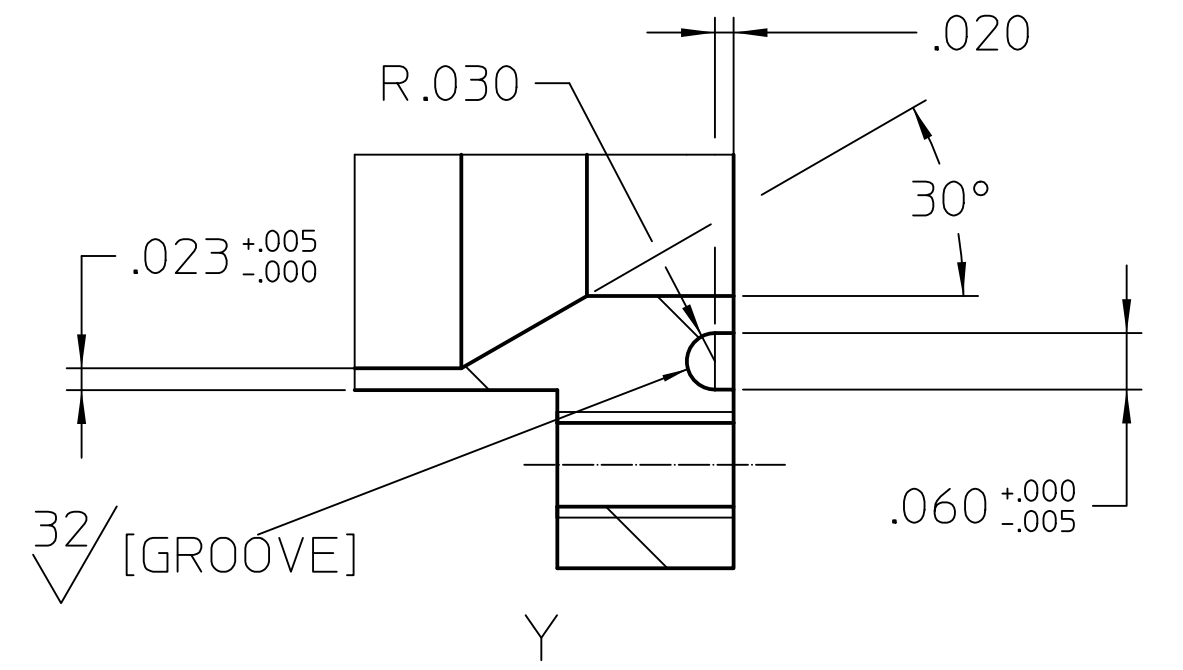
REVISIONS				
No.	ZONE	ECN	CHANGE	DATE
1				



ISO1



SECTION B-B



SCALE 5:1

NOTES:
1) ORIGINALLY A BROOKHAVEN LABORATORY DRAWING, PART# P24-30-145-3
2) CAN BE CREATED IN ONE PIECE OR TWO PIECES DIP-BRAZED. VACUUM TIGHT MAX. LEAK RATE 2X10⁻⁸ STD. CC/SEC. He AT THE POINTS SHOWN. CLEARANCE BETWEEN PARTS 0.001 SEE DETAIL VIEW Z FOR DIVISION LINE BETWEEN PIECES.
3) MILL PART NUMBER ON BOTTOM WHERE SHOWN USING 1/8 CHARACTERS WITH A DEPTH OF .01".

MATERIAL SPECIFICATION		APPROVALS		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:	
MATERIAL ALUMINUM, 6061-T6	ENGR	ENGR	DATE	DECIMALS .XXX ±.005	FRACTIONS ±.015
FORM BAR, ROUND	ENGR MNGR	ENGR	DATE	XX ±.01	ANGLES ±.5
MODEL DATA		DRAWING DATA		DO NOT SCALE DRAWING	
MODEL NAME SAMPLE HOLDER HOUSING	STATE work	DATE 7/22/14 12:10 PM	ENGINEER Edward Kunkel	FOR	
CREATOR eck1	VERSION 1	SHEETS 1	PHONE NUMBER	SCALE 1:1	RELEASE DATE
DATE 8/5/14 9:47 AM	DRAFTER eck1	DATE 7/22/14 12:10 PM	EMAIL ADDRESS Edward.kunkel@nist.gov	CALC. WT.	ACT. WT.
THIRD ANGLE PROJECTION	LAST UPDATE BY coln	DATE 11/2/16 1:41 PM			

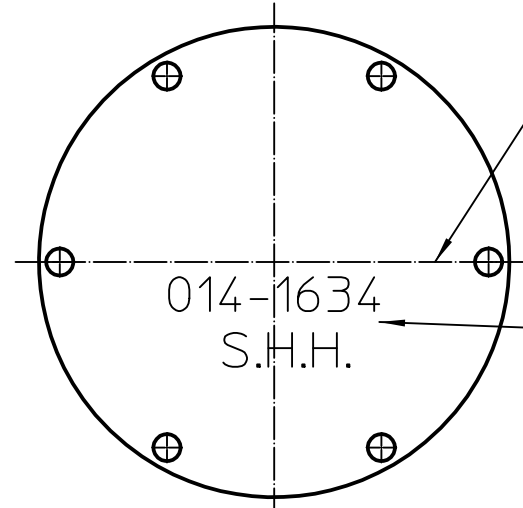
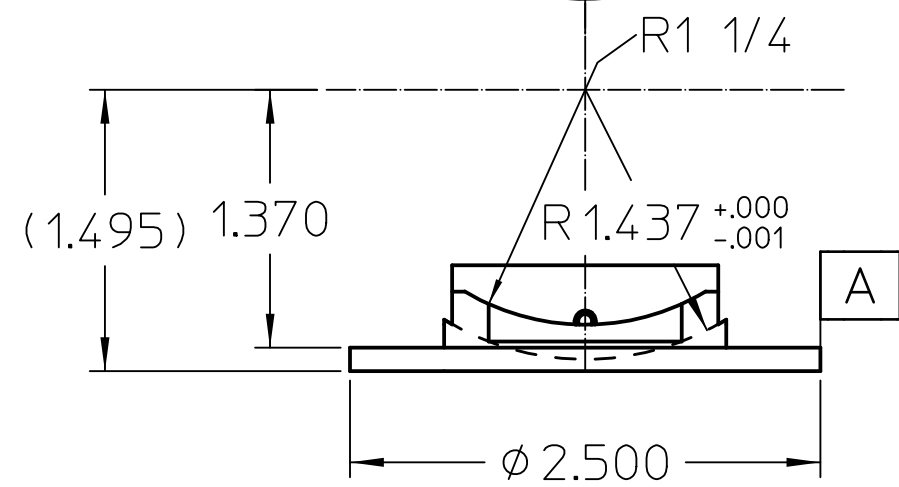
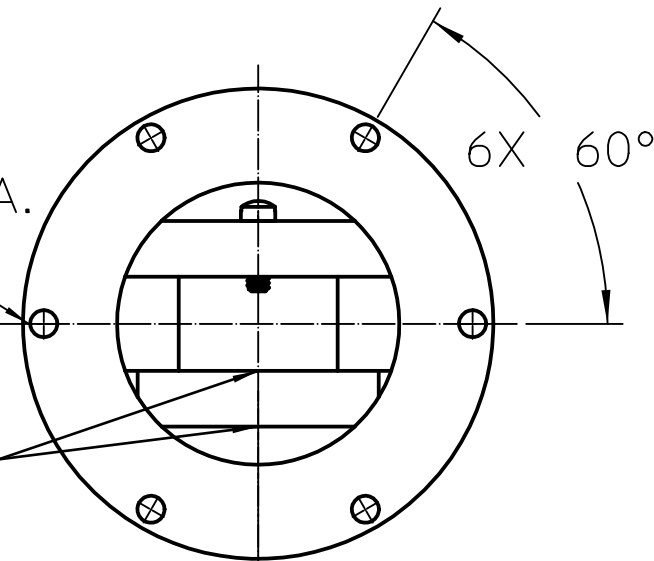
NIST			CENTER FOR NEUTRON RESEARCH		
National Institute of Standards and Technology U.S. Department of Commerce			100 BUREAU DRIVE GAITHERSBURG, MD, 20899		
SAMPLE HOLDER HOUSING					
SIZE C	DWG No. 014-1631	REV 1			
SCALE 1:1	RELEASE DATE	SHEET 1 of 1			
CALC. WT.	ACT. WT.	DIM. & TOL. PER ANSI Y14.5M-1982			

REVISIONS				
No.	ZONE	ECN	CHANGE	DATE
2	A2		CHANGE NOTES SHT 1, ADD SHT 2	3/7/18

6X DRILL #27
THRU EQ. SP.
ON A 2.280 DIA.

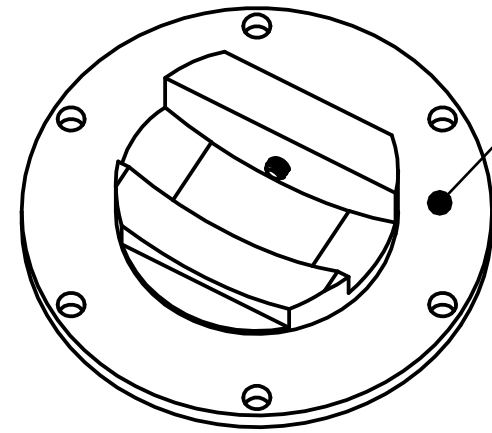
$\pm .014$ AB

SCRIBE
FEDUCIAL
LINE

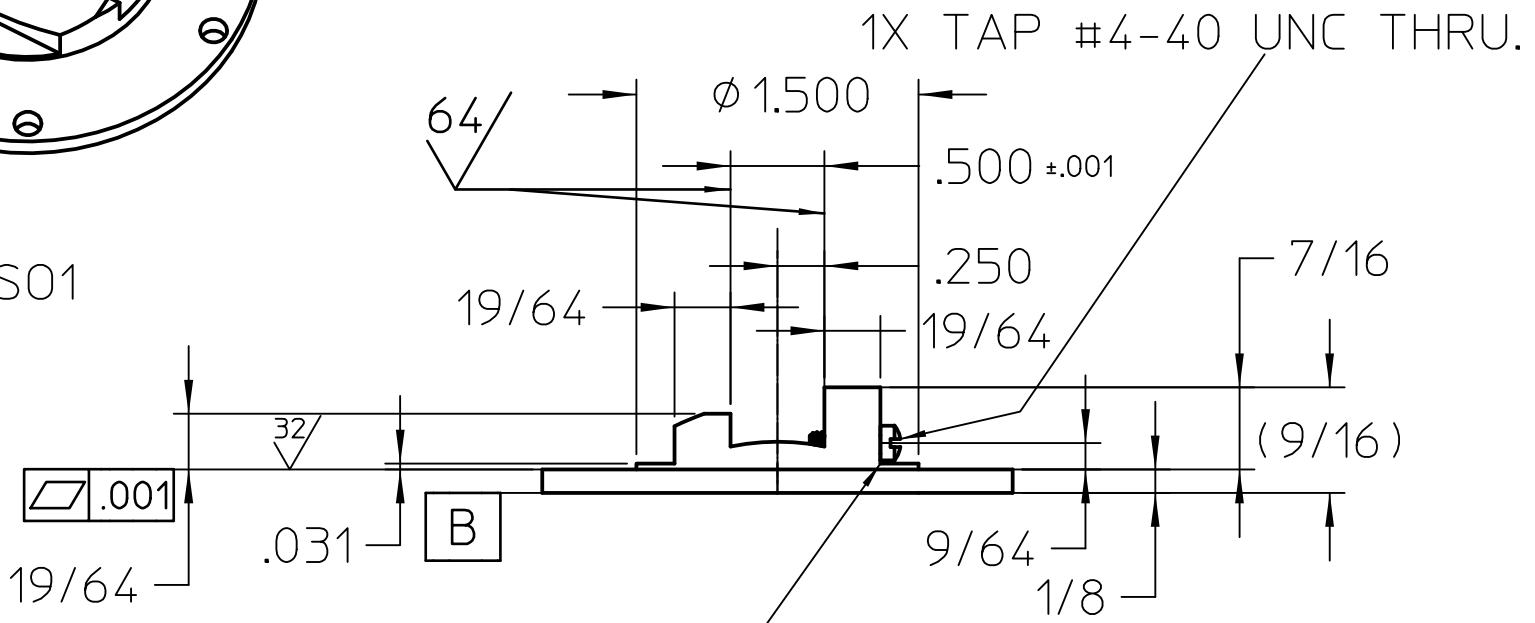


SCRIBE FEDUCIAL LINE
ALONG CENTER LINE

ENGRAVE DETAILS HERE



SEE NOTE 1
SHEET 2



#4-40 UNC FIL.' HD.'
SCREW X 3/8 LG. [ALUMINUM]

NOTES:
1. PREVIOUSLY A BROOKHAVEN NATIONAL LABORATORY DRAWING
PART# P24-30-849-2
2. BREAK ALL SHARP EDGES.
3. SEE NOTES ON PAGE 2 FOR FURTHER ENGRAVING, BAR CODING,
AND PACKAGING INFORMATION.

MATERIAL SPECIFICATION		APPROVALS	
MATERIAL ALUMINUM, 6061-T6	FORM	ENGR	DATE
SIZE	ENGR MNGR	DATE	
MODEL DATA		DRAWING DATA	
MODEL NAME SUPPORT_FLANGE_ASSY	STATE work	DATE 3/7/18 2:28 PM	ENGINEER Edward Kunkel
CREATOR edk1	DATE 7/22/14 1:34 PM	VERSION 2	SHEETS
THIRD ANGLE PROJECTION	DRAFTER colin	DATE 3/7/18 2:28 PM	PHONE NUMBER
	LAST UPDATE BY colin	DATE 3/7/18 4:03 PM	EMAIL ADDRESS edward.kunkel@nist.gov

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
DECIMALS .XXX $\pm .005$ FRACTIONS $\pm .015$
.XX $\pm .01$ ANGLES $\pm .5$
.X $\pm .1$

DO NOT SCALE DRAWING

NIST National Institute of Standards and Technology U.S. Department of Commerce		CENTER FOR NEUTRON RESEARCH 100 BUREAU DRIVE GAITHERSBURG, MD. 20899	
SUPPORT_FLANGE			
FOR SUPER SAMPLE HOLDER, UNIVERSAL SPECTROMETER			
SIZE B	DWG No. 014-1634	REV 2	
SCALE 1:1	RELEASE DATE	SHEET 1 of 2	
CALC. WT.	ACT. WT.	DIM. & TOL. PER ANSI Y14.5M-1982	