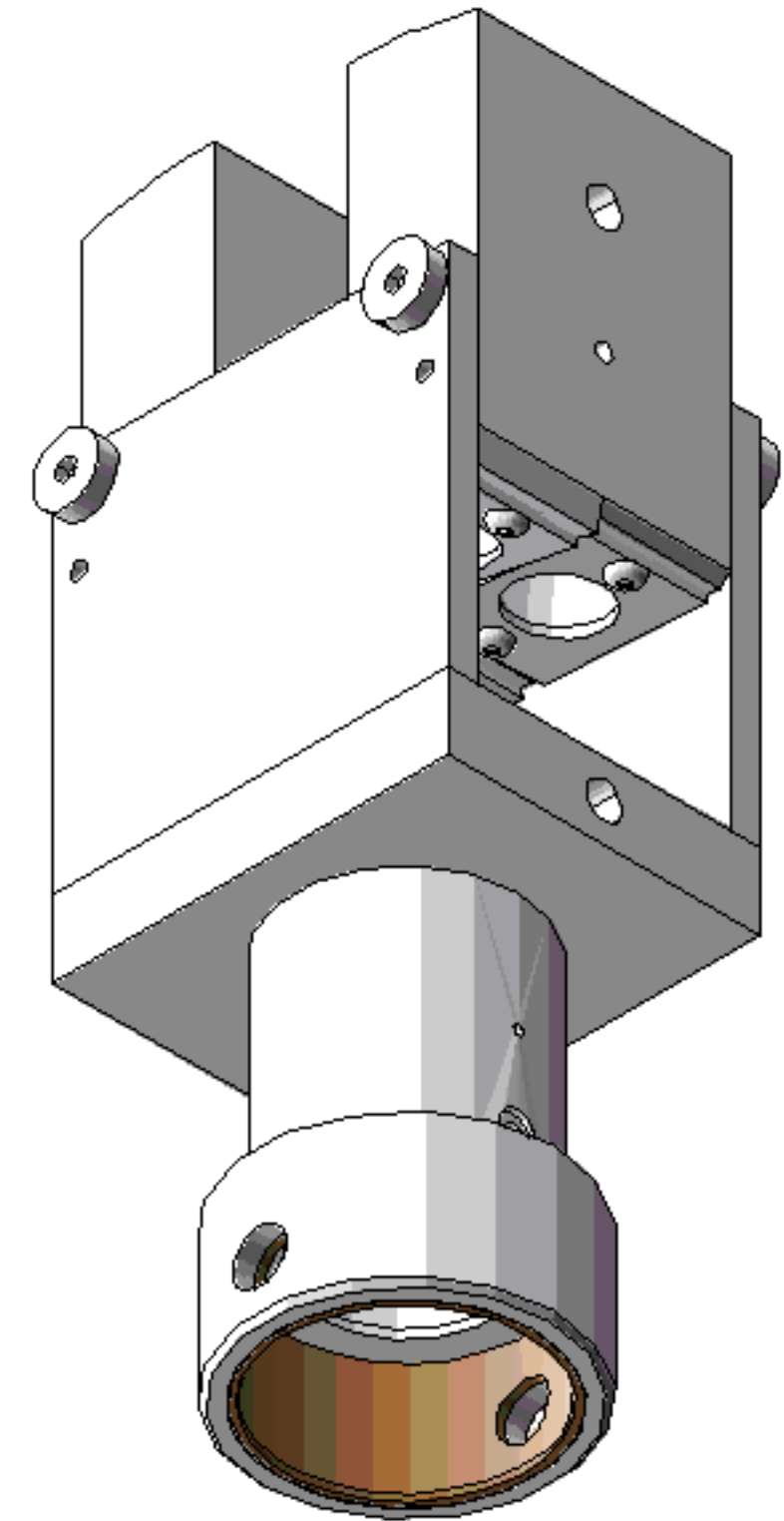
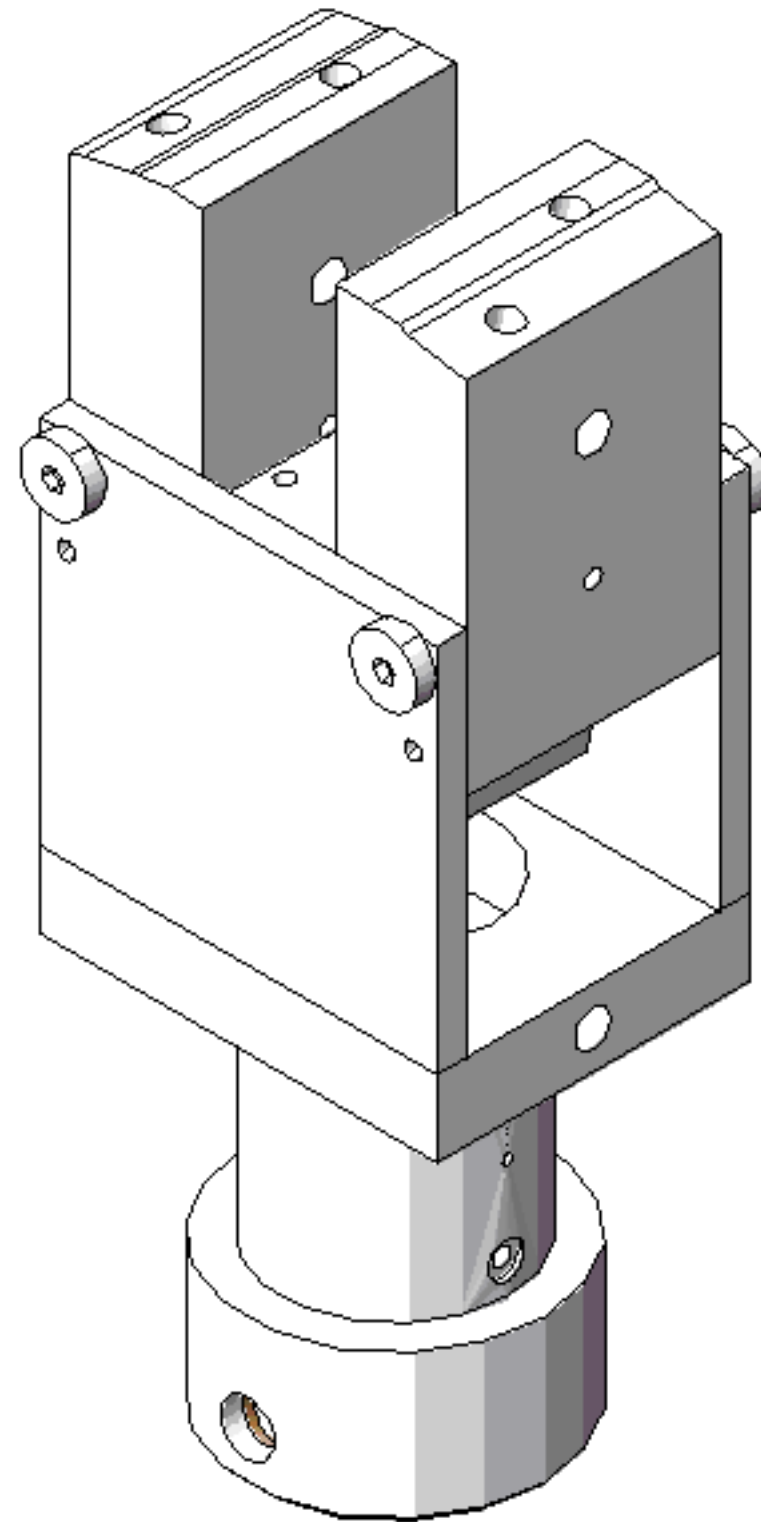
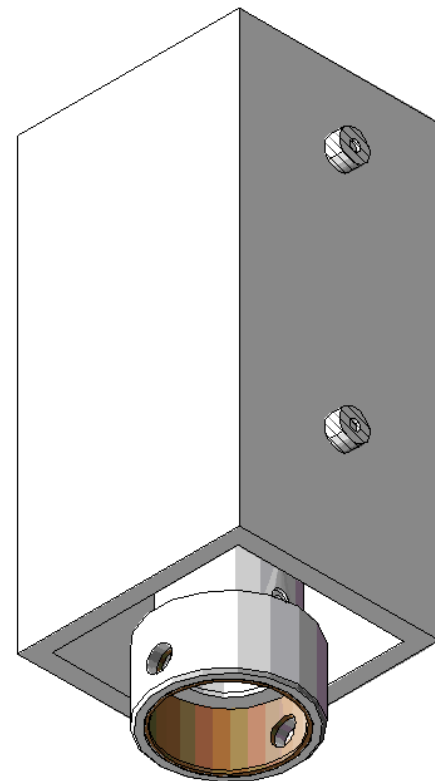
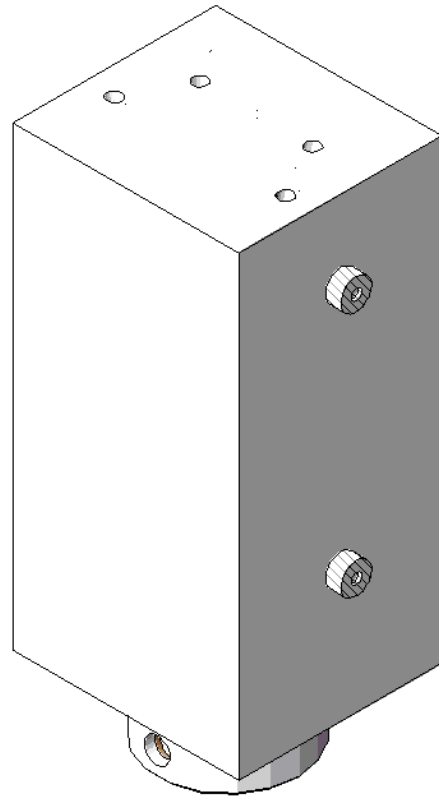


NOTES.

- 1. DIAGNOSTIC TO BE ATTACHED TO MAST RECIPROCATING PROBE.

VECTORWORKS EDUCATIONAL VERSION



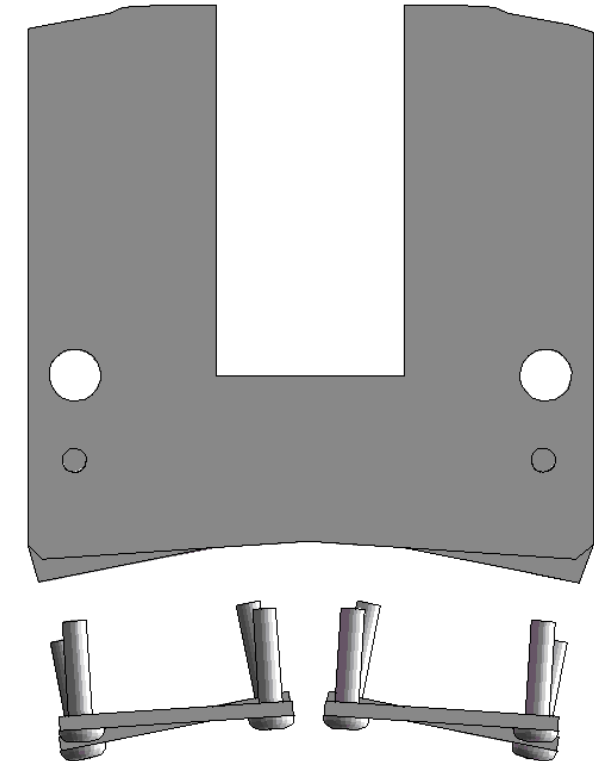
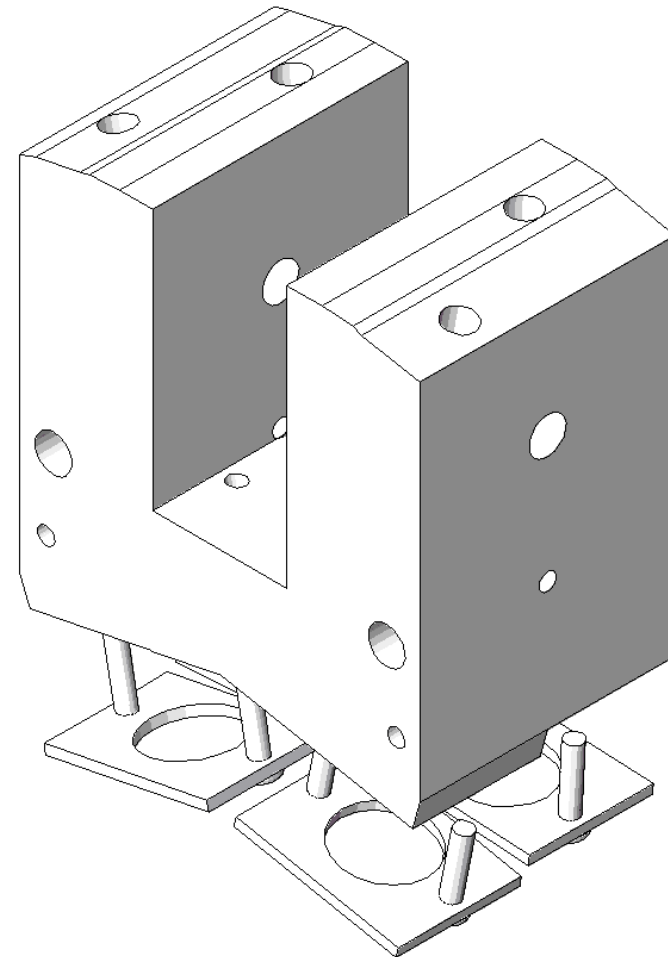
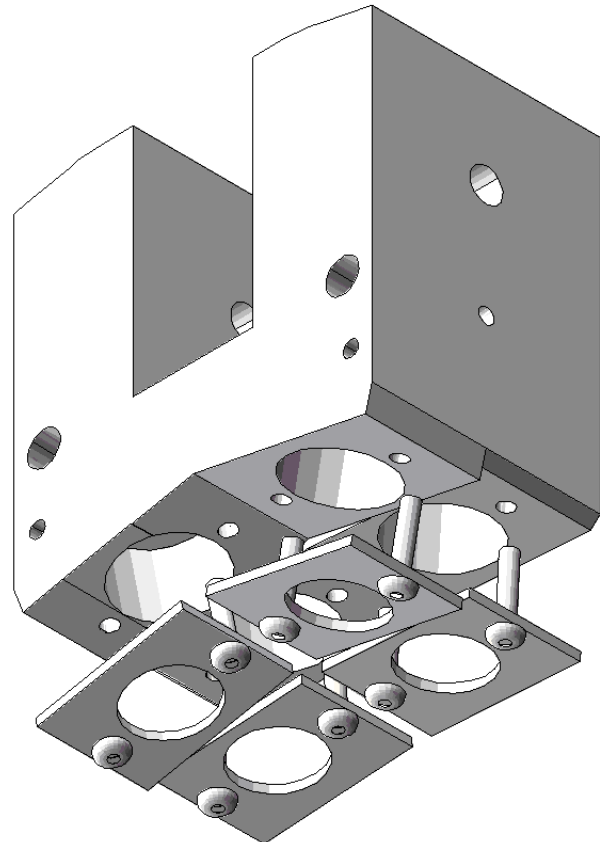
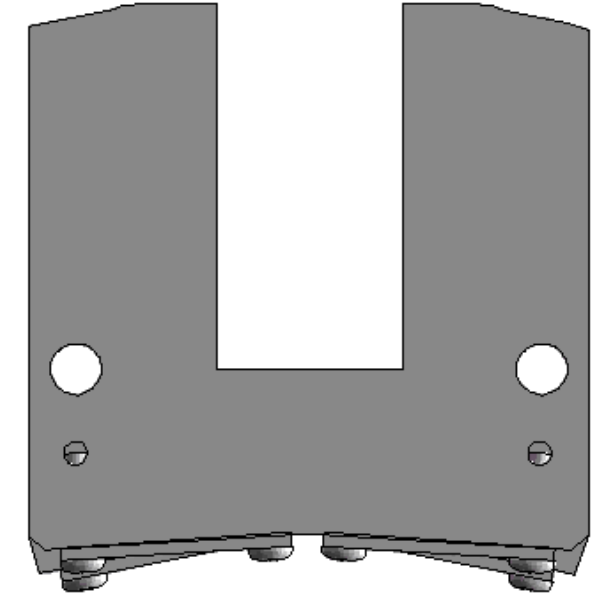
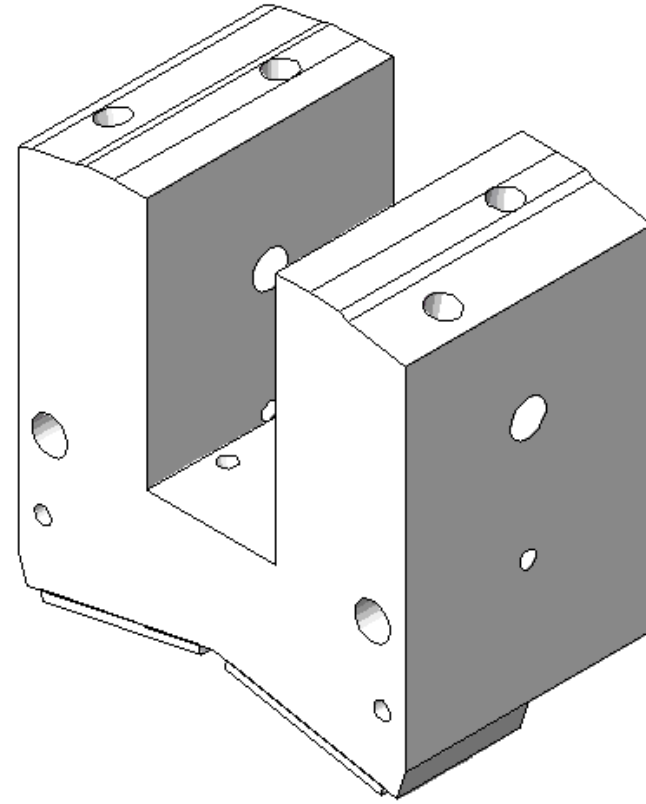
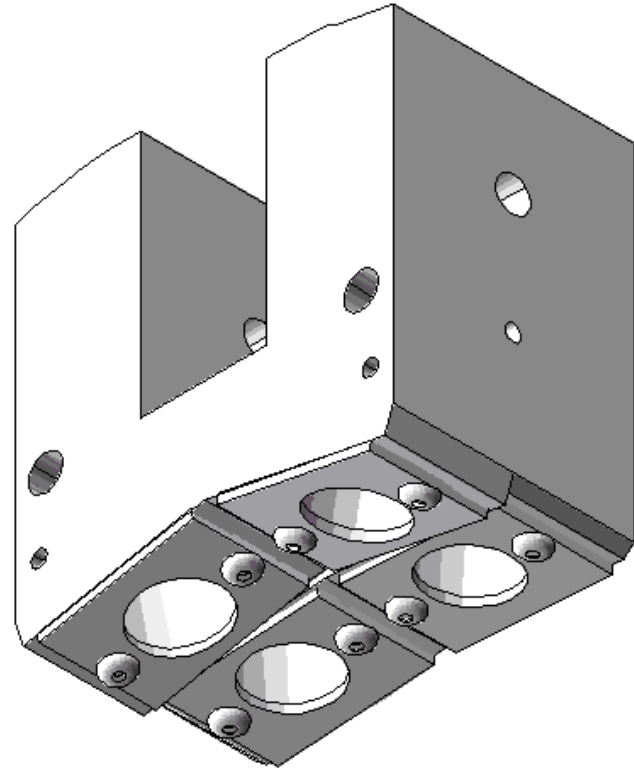
VECTORWORKS EDUCATIONAL VERSION

<b>FIU</b>	FLORIDA INTERNATIONAL UNIVERSITY DEPARTMENT OF PHYSICS 11200 SW 8TH ST, MIAMI, FL 33199	
DATE 06/01/12	PROJECT MAST DIAGNOSTIC	SHEET 1 OF 1
SCALE	TITLE MACRO ASSEMBLED VIEW	DRAWN BY RAMONA VALENZUELA PEREZ

NOTES.

1. MODULE WITH BASES.

VECTORWORKS EDUCATIONAL VERSION

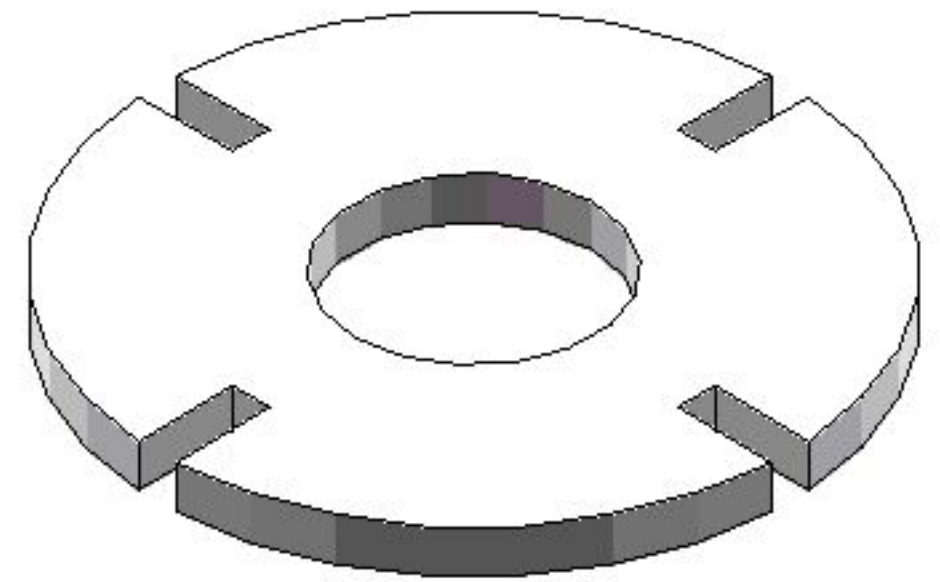
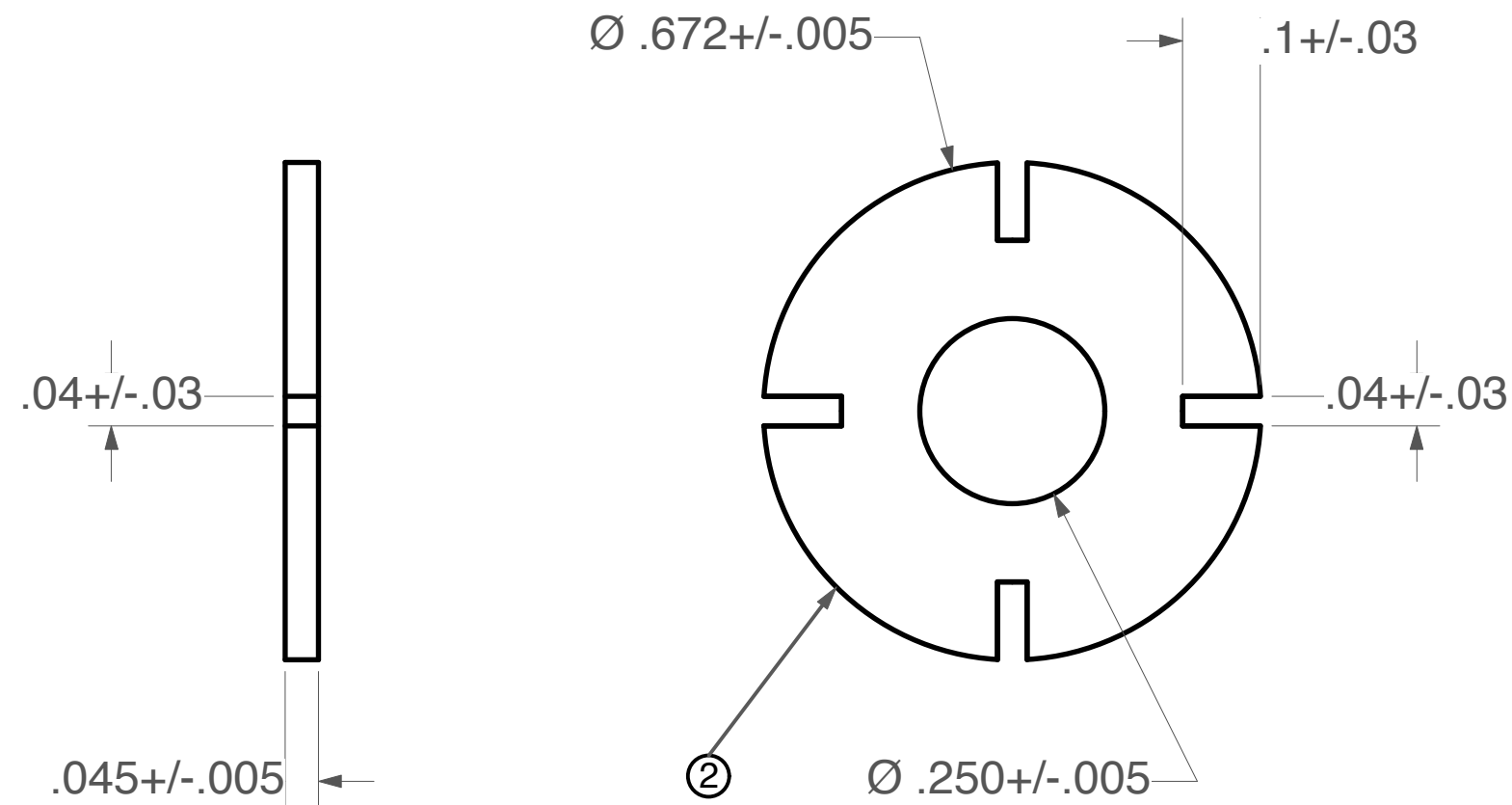


VECTORWORKS EDUCATIONAL VERSION

<b>FIU</b>	FLORIDA INTERNATIONAL UNIVERSITY DEPARTMENT OF PHYSICS 11200 SW 8TH ST, MIAMI, FL 33199	
DATE 06/01/12	PROJECT	SHEET 1 OF 1
SCALE	MAST DIAGNOSTIC	
TITLE	MODULE MACRO ASSEMBLED VIEW	DRAWN BY RAMONA VALENZUELA PEREZ

NOTES.

1. WASHER MADE TO FIT INSIDE MODULE.
2. 4 OF THESE PIECES NEEDED.

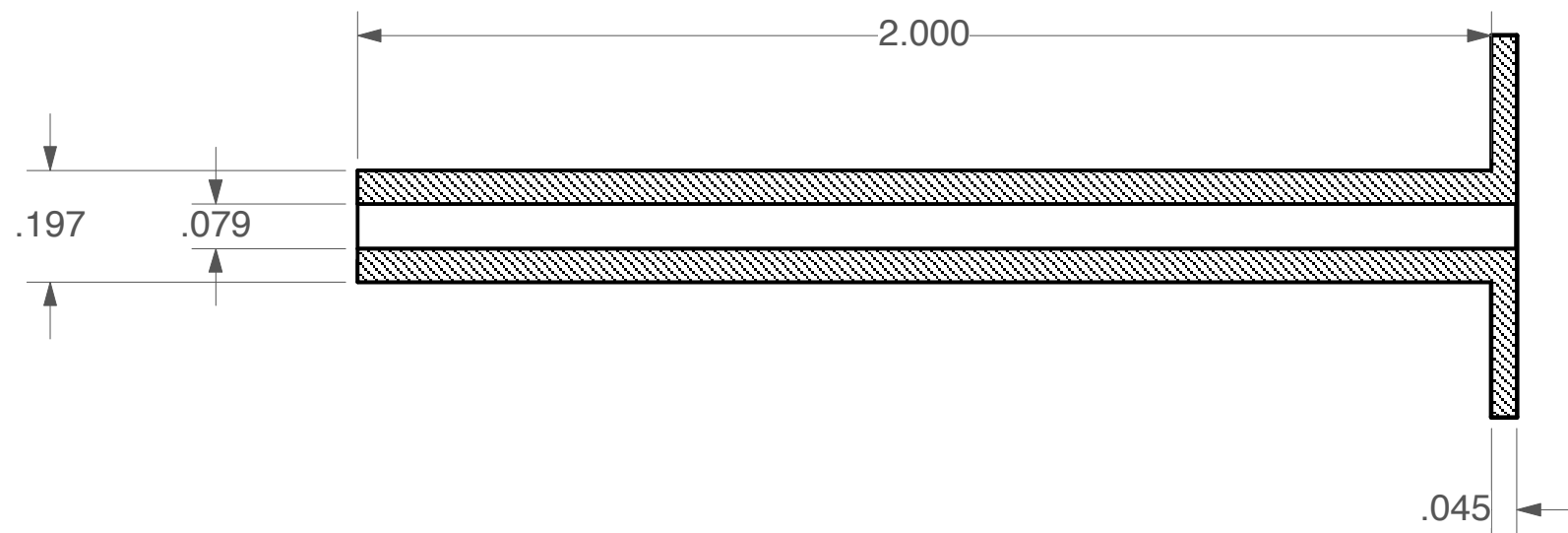
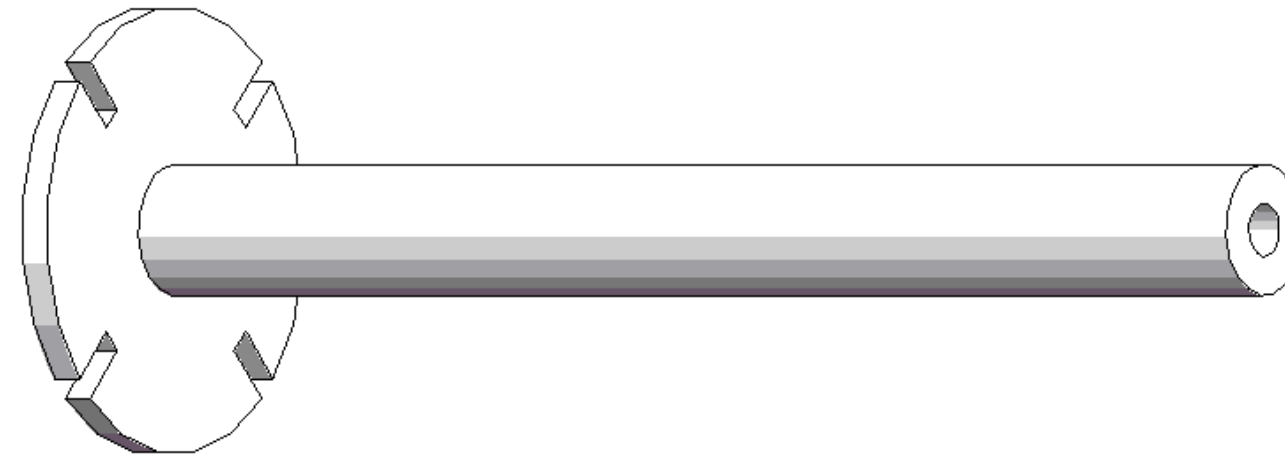


ALL DIMENSIONS ARE IN INCHES.  
TOLERANCES UNLESS OTHERWISE SPECIFIED:  
X.XXX +/- .01 < +/- .5

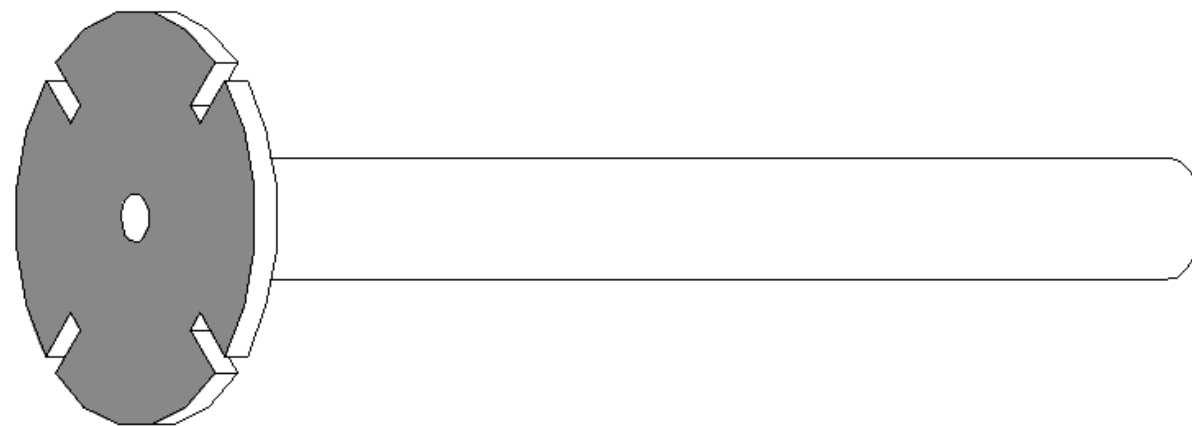
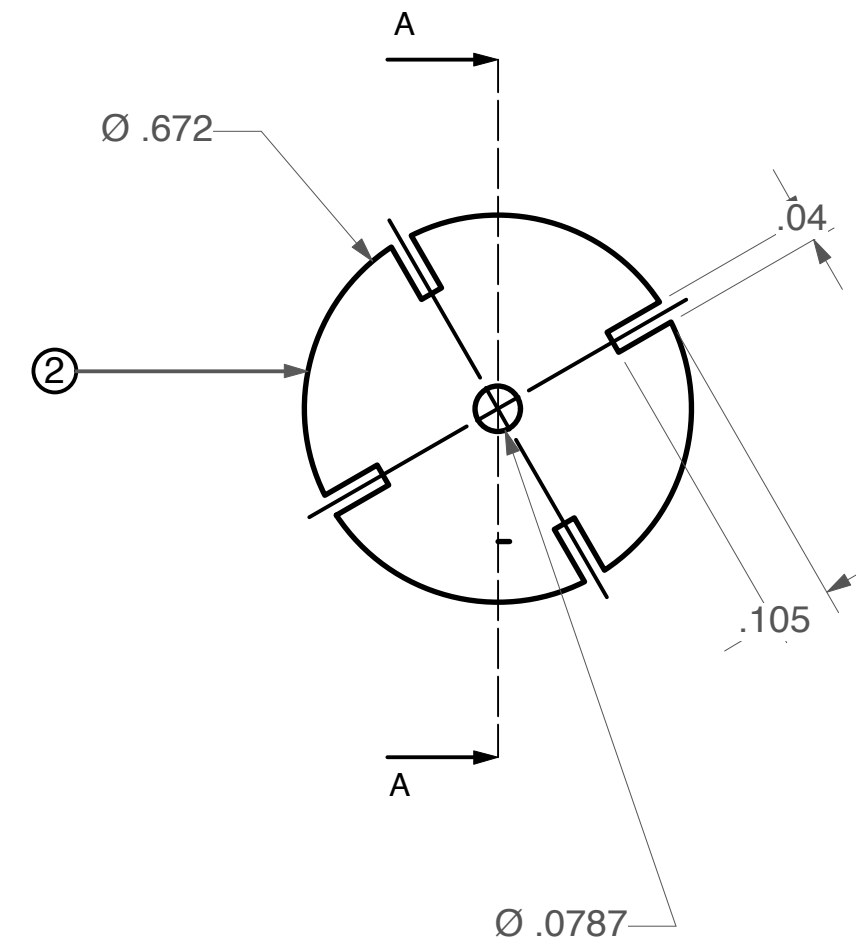
<b>FIU</b>	FLORIDA INTERNATIONAL UNIVERSITY DEPARTMENT OF PHYSICS 11200 SW 8TH ST, MIAMI, FL 33199	
	DATE 06/01/12	PROJECT MAST DIAGNOSTIC
SCALE 3:1		SHEET 1 OF 1
TITLE	DRAWN BY RAMONA VALENZUELA PEREZ	
WASHER FOR FOIL		

NOTES.

1. WASHER MADE TO FIT INSIDE MODULE.
2. 4 OF THESE PIECES NEEDED.



SECTION A - A

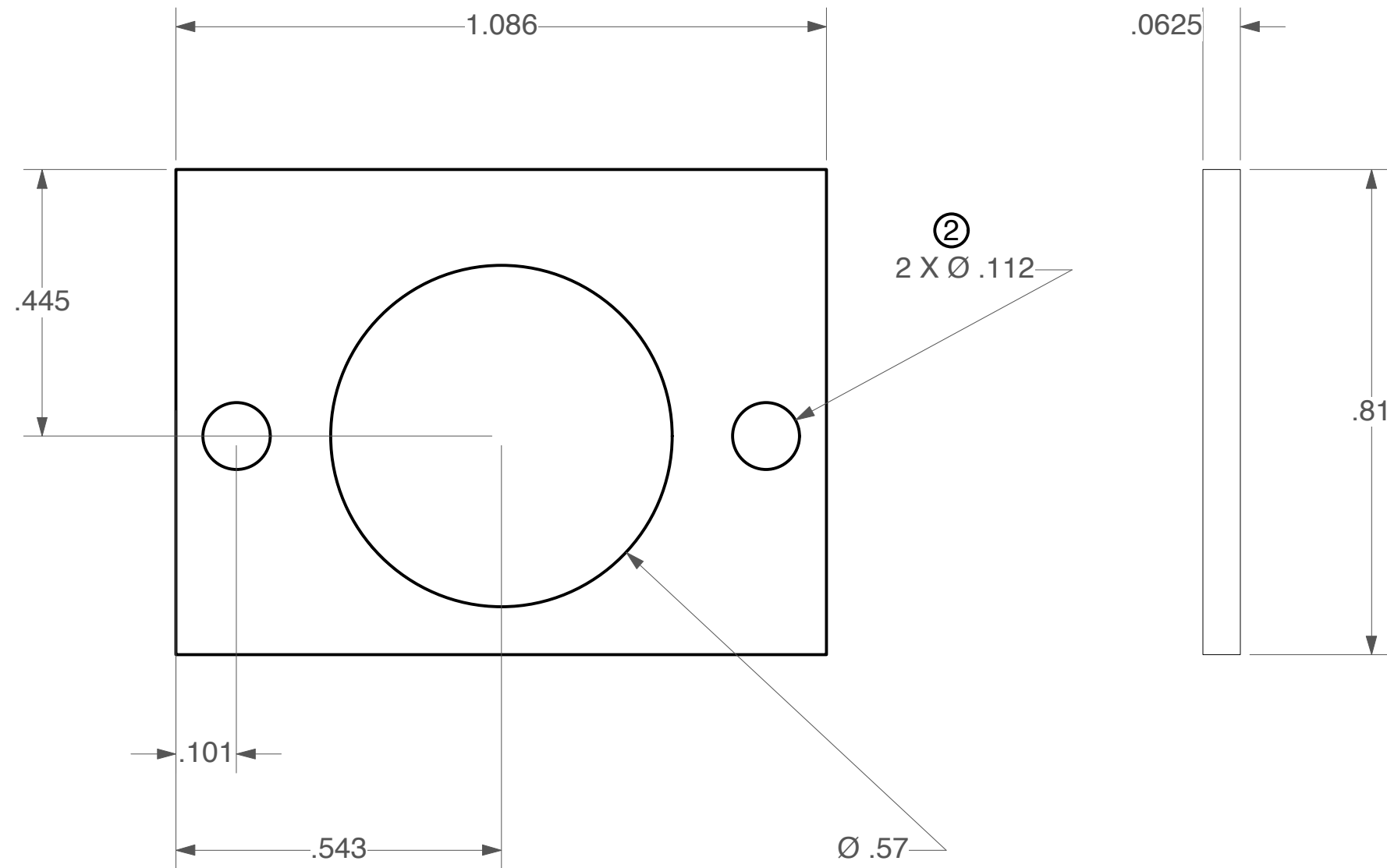
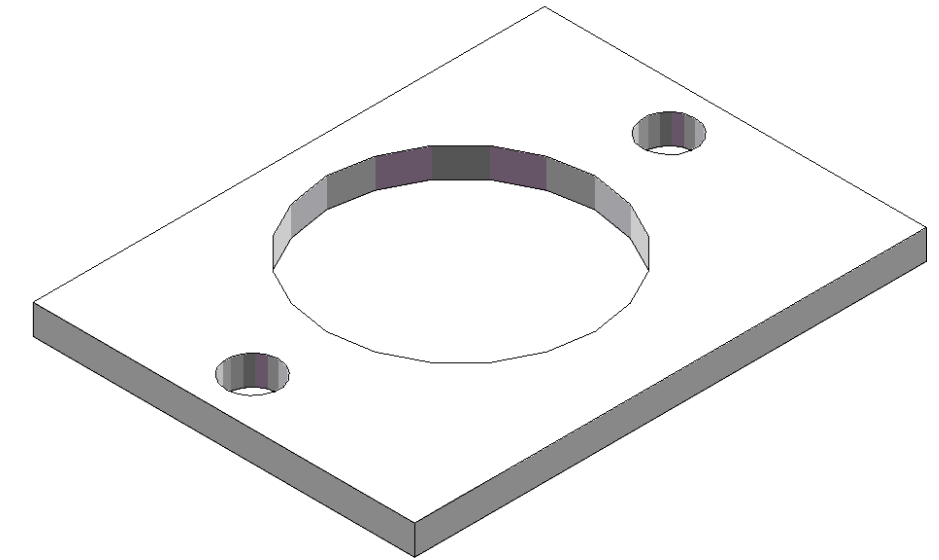


ALL DIMENSIONS ARE IN INCHES.  
TOLERANCES UNLESS OTHERWISE SPECIFIED:  
X.XXX +/- .01 < +/- .5

<b>FIU</b>		FLORIDA INTERNATIONAL UNIVERSITY DEPARTMENT OF PHYSICS 11200 SW 8TH ST, MIAMI, FL 33199	
DATE 06/01/12	PROJECT	SHEET 1 OF 1	
SCALE 3:1	MAST DIAGNOSTIC		
TITLE	ALTERNATE WASHER FOR FOIL	DRAWN BY RAMONA VALENZUELA PEREZ	

NOTES.

1. BASE IS MADE TO FIT TO BOTTOM OF MODULE; ALL BORED HOLES MUST ALIGN WITH BOTTOM OF MODULE.
2. BORE THRU HOLE FOR A 4-40 .112 INCH DIAMETER SOCKET HEAD CAP SCREW.



ALL DIMENSIONS ARE IN INCHES.  
TOLERANCES UNLESS OTHERWISE SPECIFIED:  
X.XXX +/- .01  $\angle$  +/- .5



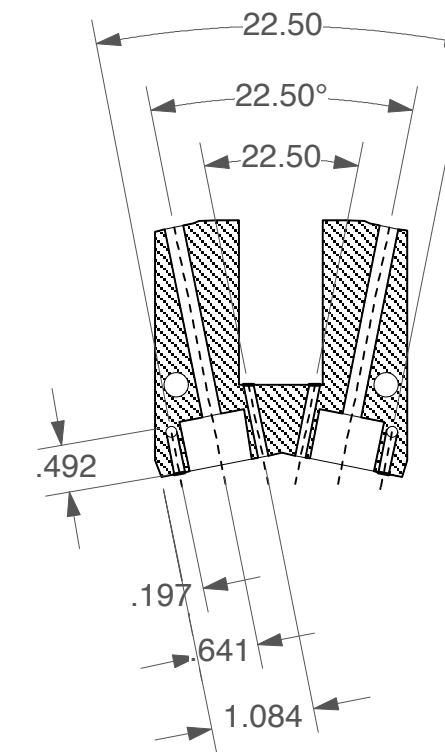
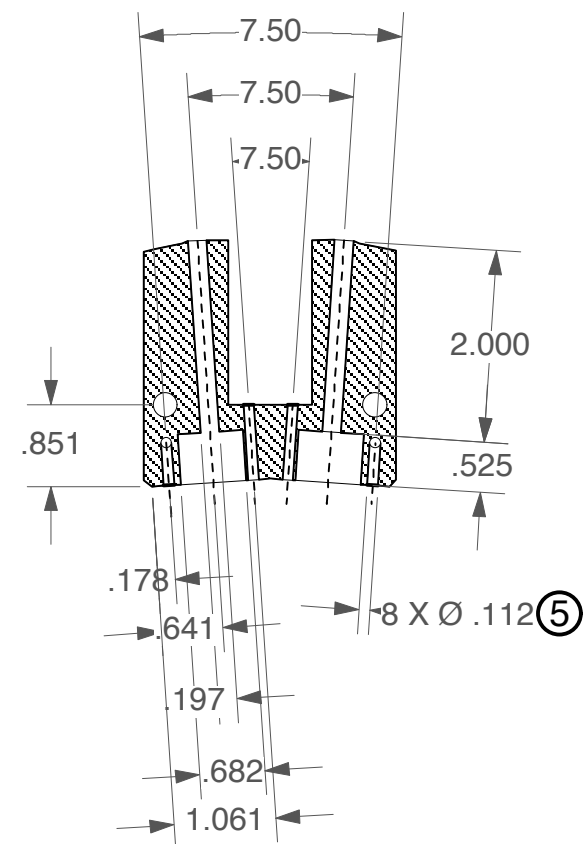
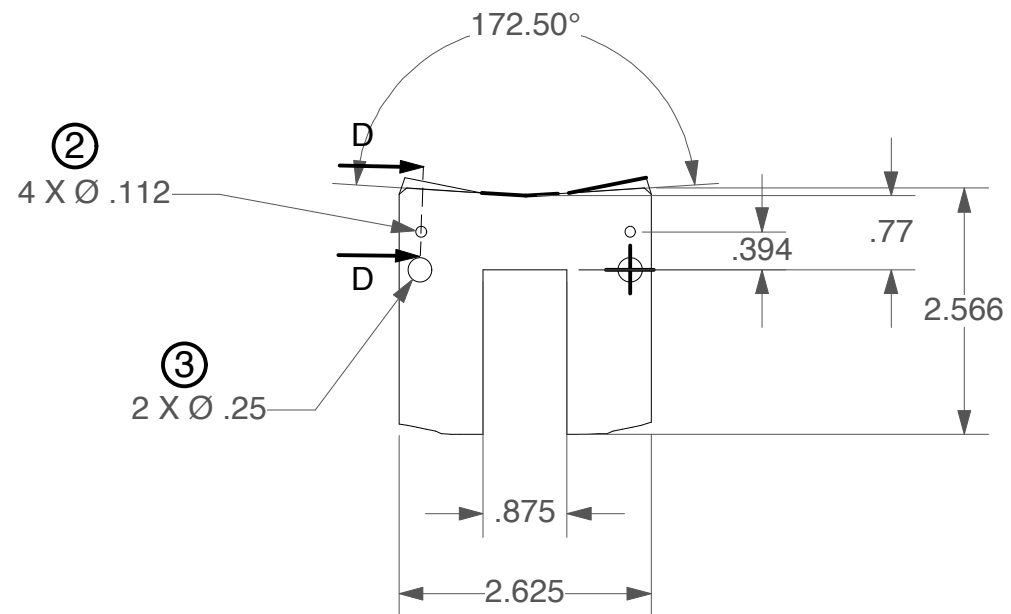
FLORIDA INTERNATIONAL UNIVERSITY  
DEPARTMENT OF PHYSICS  
11200 SW 8TH ST, MIAMI, FL 33199

DATE 06/01/12	PROJECT MAST DIAGNOSTIC	SHEET 1 OF 1
SCALE 4:1	TITLE BASE FOR MODULE	DRAWN BY RAMONA VALENZUELA PEREZ

NOTES.

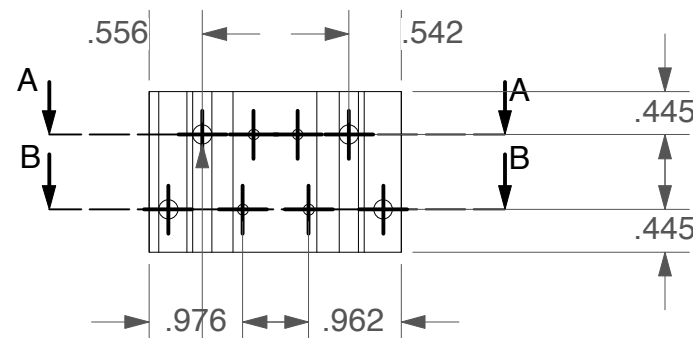
1. MODULE MADE TO ASSEMBLED WITH BASES, SHIELD, AND CONNECTOR; CORRESPONDING HOLES SHOULD ALIGN
2. BORE .501 INCHES FOR A .112 INCH DIAMETER HOLE.
3. BORE THRU FOR A 1/4-20 .25 INCH DIAMETER BUTTON SOCKET HEAD CAP SCREW.
4. BORE THRU .197 INCH DIAMETER HOLE.
5. BORE THRU FOR A 4-40 .112 INCH DIAMETER SOCKET CAP SCREW.
6. BORE THRU FOR A .112 INCH DIAMETER HOLE.
7. BORE THRU FOR 1/4-20 .25 INCH DIAMETER SHOULDER SCREW.

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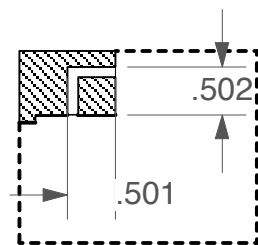


SECTION A - A

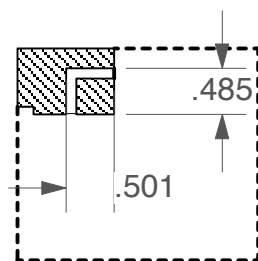
SECTION B - B



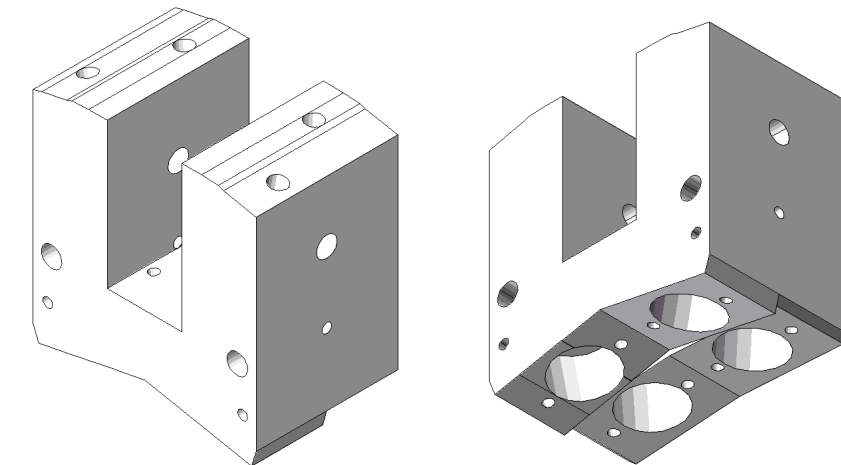
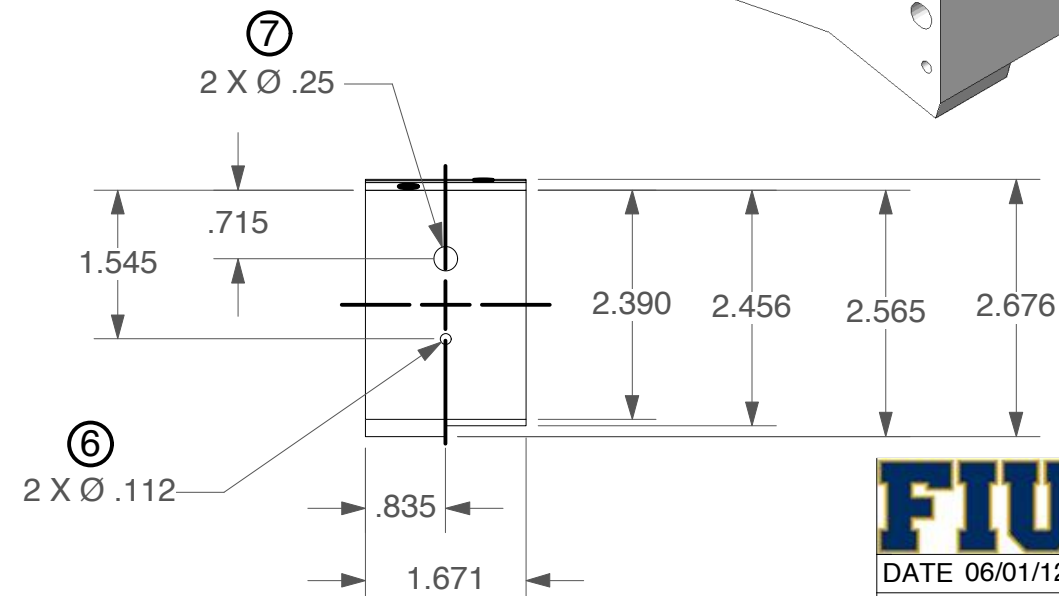
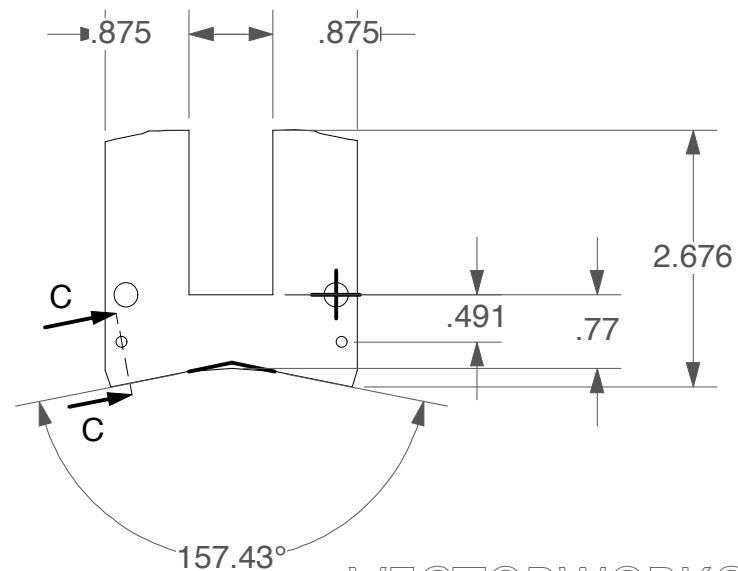
④ 4 X Ø .197



CROPPED SECTION D - D



CROPPED SECTION C - C



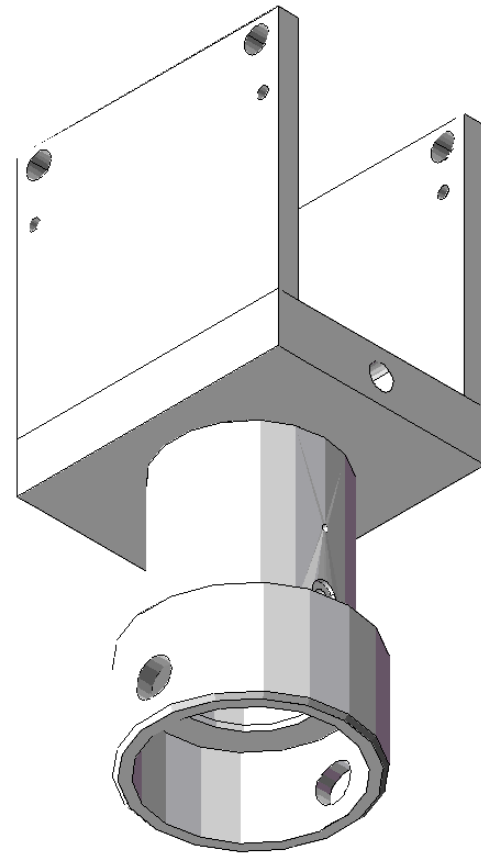
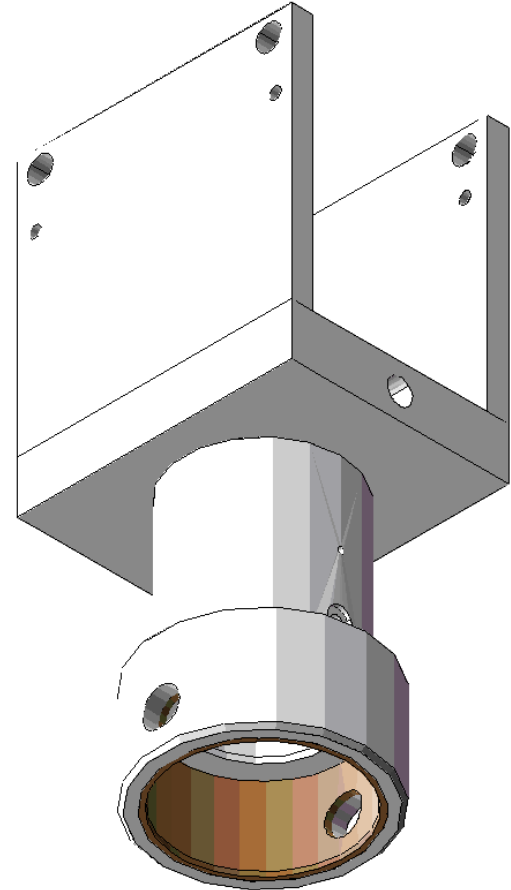
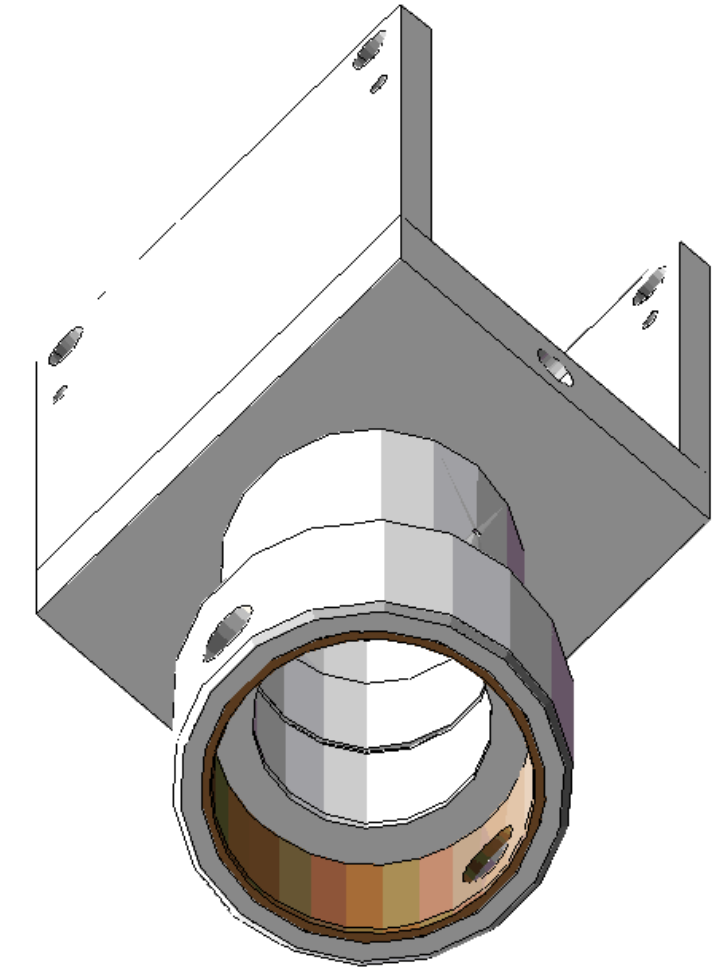
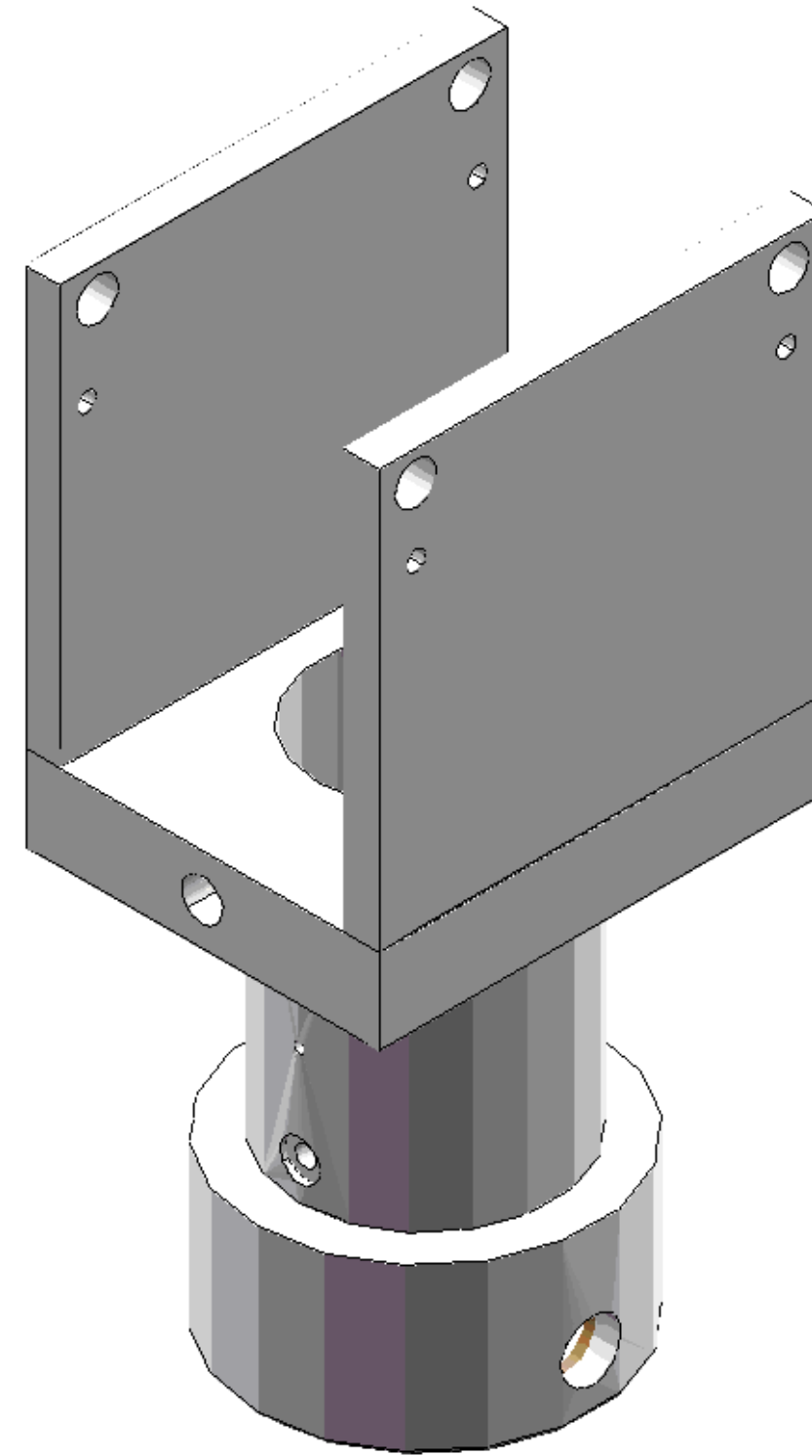
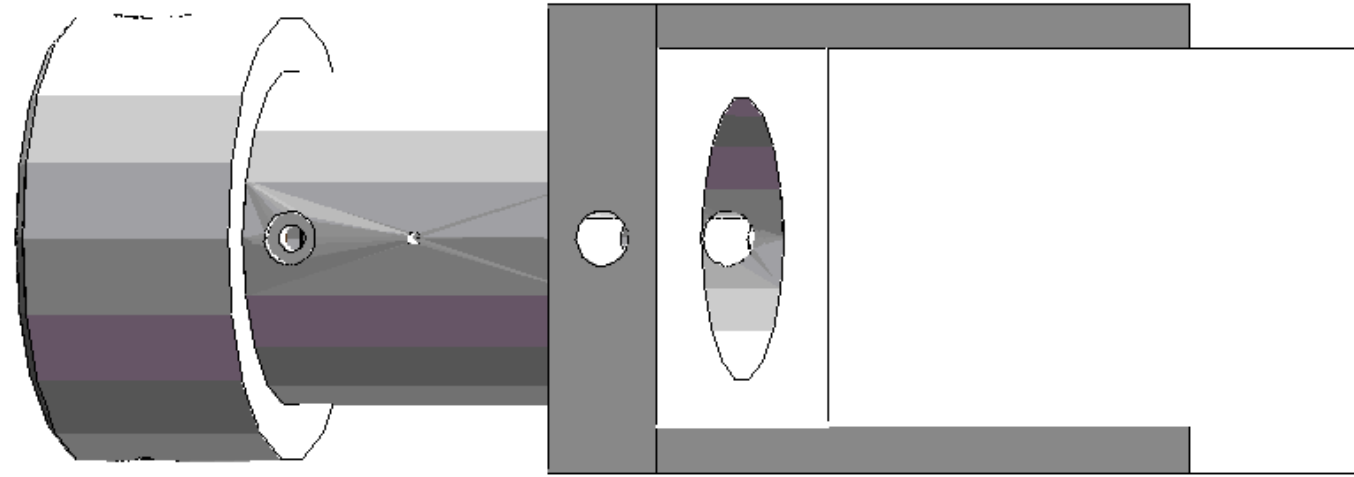
VECTORWORKS EDUCATIONAL VERSION

<b>FIU</b> FLORIDA INTERNATIONAL UNIVERSITY DEPARTMENT OF PHYSICS 11200 SW 8TH ST, MIAMI, FL 33199		
DATE 06/01/12	PROJECT MAST DIAGNOSTIC	SHEET 1 OF 1
SCALE 1:2	TITLE MODULE	DRAWN BY RAMONA VALENZUELA PEREZ

NOTES.

- 1. ASSEMBLED CONNECTOR WITH AND WITHOUT BRONZE WASHER

VECTORWORKS EDUCATIONAL VERSION

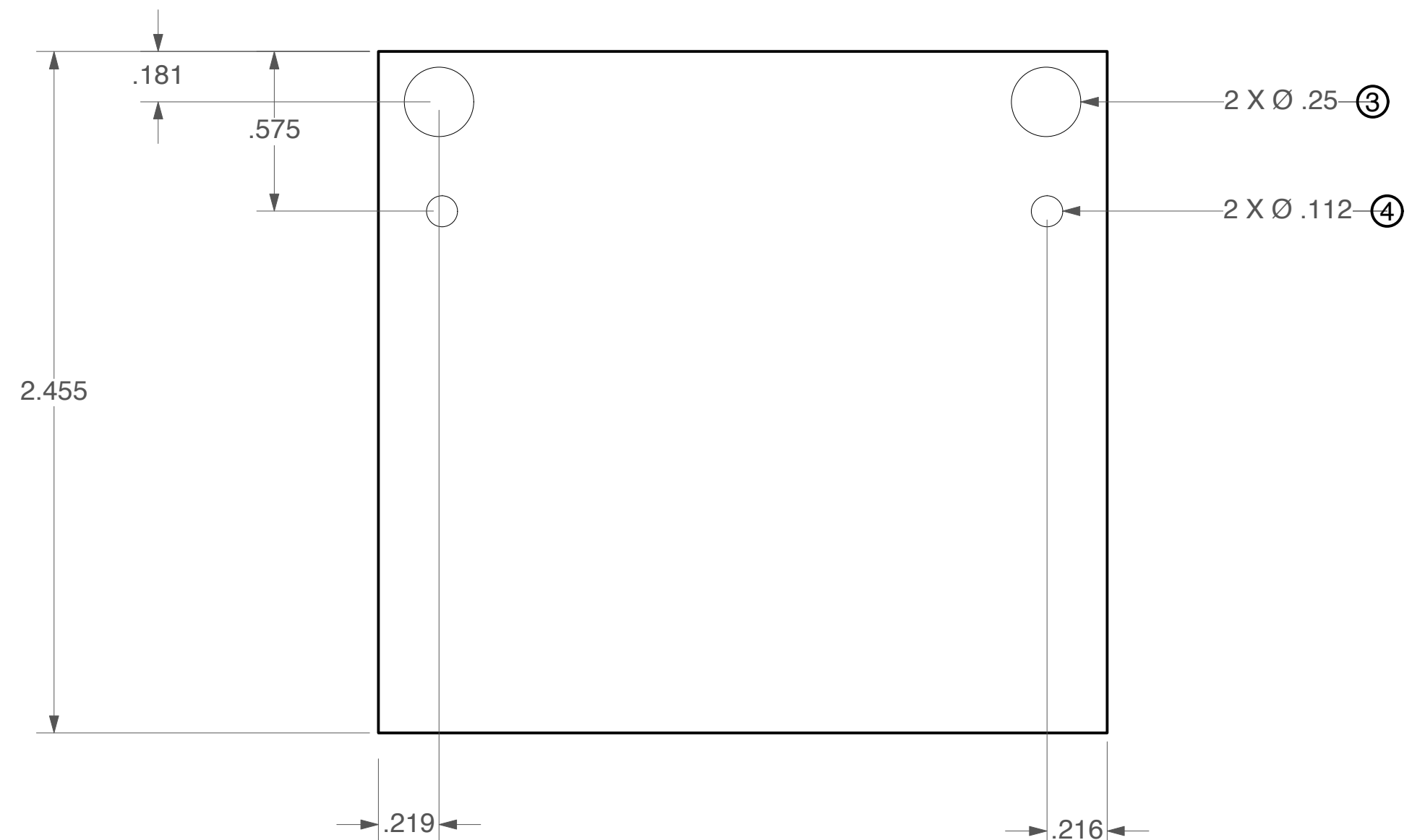
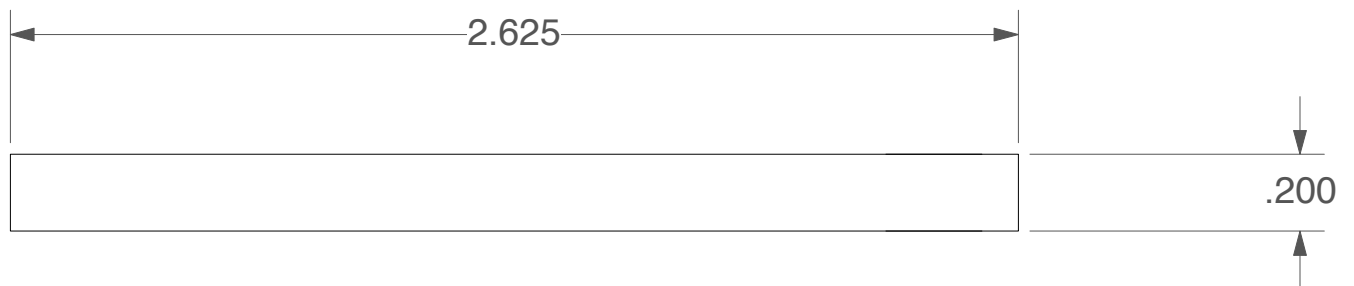
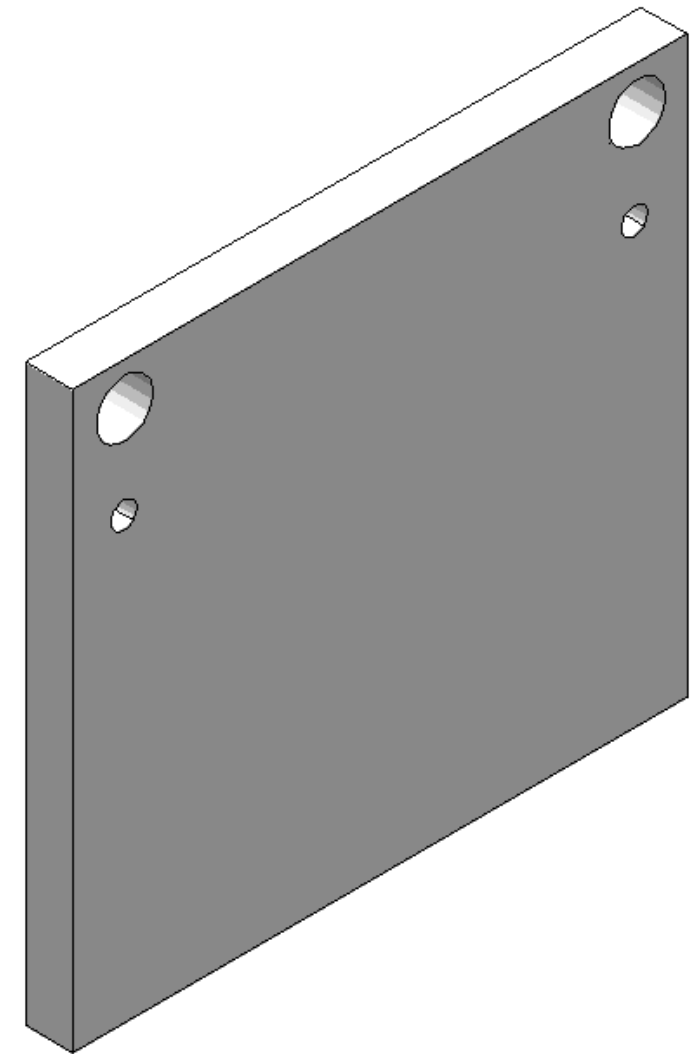


VECTORWORKS EDUCATIONAL VERSION

<b>FIU</b>	FLORIDA INTERNATIONAL UNIVERSITY DEPARTMENT OF PHYSICS 11200 SW 8TH ST, MIAMI, FL 33199	
DATE 06/01/12	PROJECT	SHEET 1 OF 1
SCALE	MAST DIAGNOSTIC	
TITLE	ASSEMBLED CONNECTOR	DRAWN BY RAMONA VALENZUELA PEREZ

NOTES.

1. CONNECTOR PIECE 1 IS MADE TO BE WELDED TO CONNECTOR PIECE 3.
2. HOLES OF CONNECTOR PIECE 1 SHOULD ALIGN SHOULD ALIGN WITH CORRESPONDING HOLES OF MODULE.
3. BORE THRU HOLE FOR A 1/4-20 .25 INCH DIAMETER BUTTON SOCKET HEAD CAP SCREW.
4. BORE THRU FOR A .112 INCH DIAMETER HOLE.



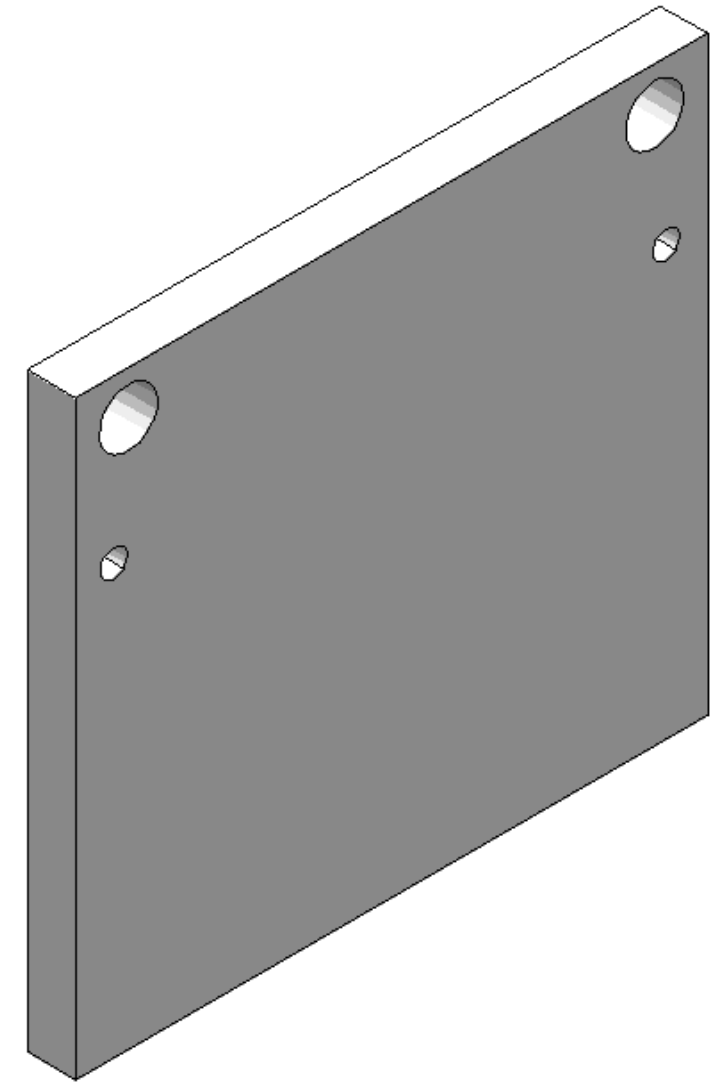
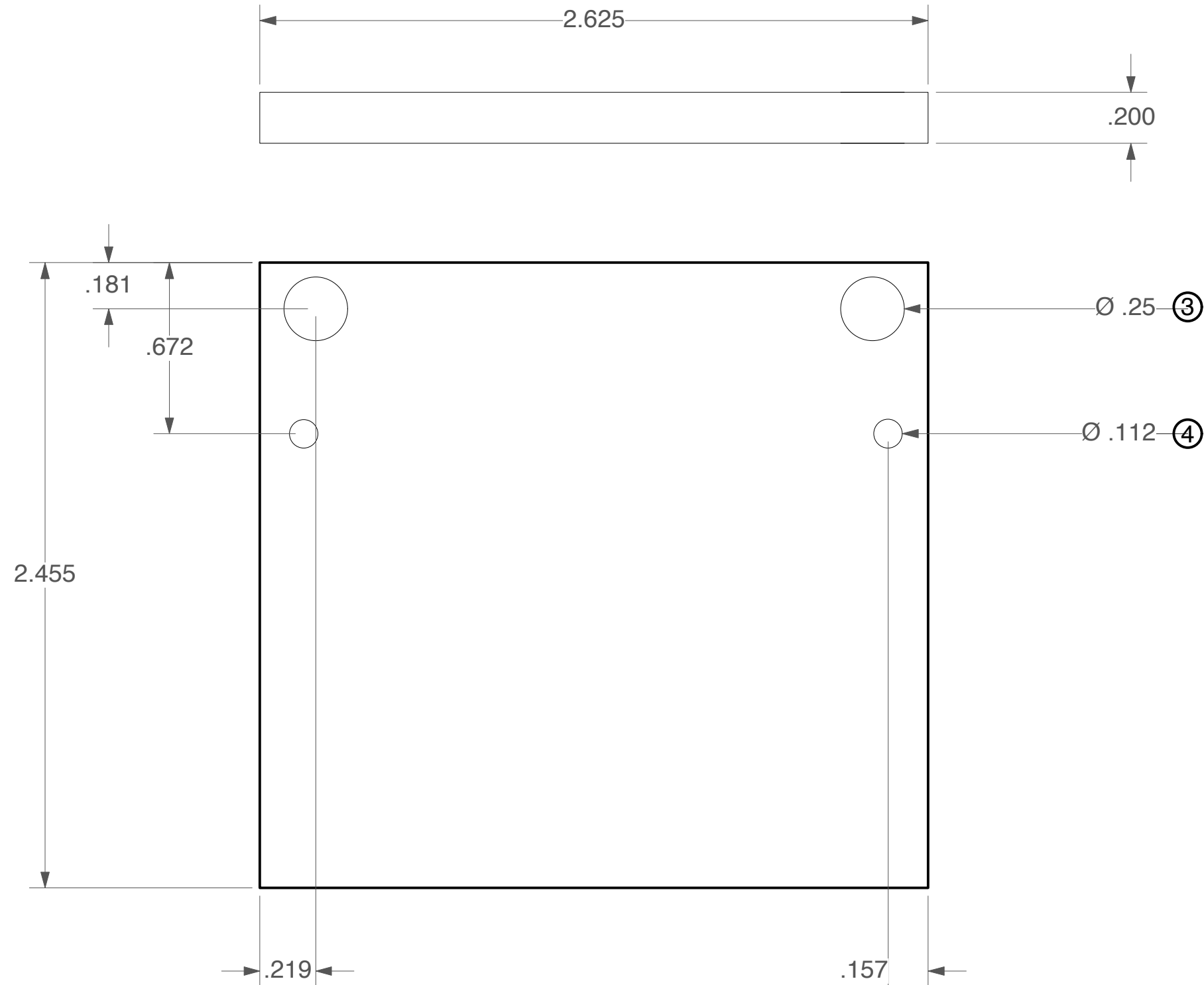
ALL DIMENSIONS ARE IN INCHES.  
TOLERANCES UNLESS OTHERWISE SPECIFIED:  
X.XXX +/- .01 < +/- .5

<b>FIU</b>	FLORIDA INTERNATIONAL UNIVERSITY DEPARTMENT OF PHYSICS 11200 SW 8TH ST, MIAMI, FL 33199	
	DATE 06/01/12	PROJECT MAST DIAGNOSTIC
SCALE 2:1		SHEET 1 OF 4
TITLE	CONNECTOR PIECE 1	DRAWN BY RAMONA VALENZUELA PEREZ



NOTES.

1. CONNECTOR PIECE 2 IS MADE TO BE WELDED TO CONNECTOR PIECE 3.
2. HOLES OF CONNECTOR PIECE 2 SHOULD ALIGN SHOULD ALIGN WITH CORRESPONDING HOLES OF MODULE.
3. BORE THRU HOLE FOR A 1/4-20 .25 INCH DIAMETER BUTTON SOCKET HEAD CAP SCREW.
4. BORE THRU FOR A .112 INCH DIAMETER HOLE.

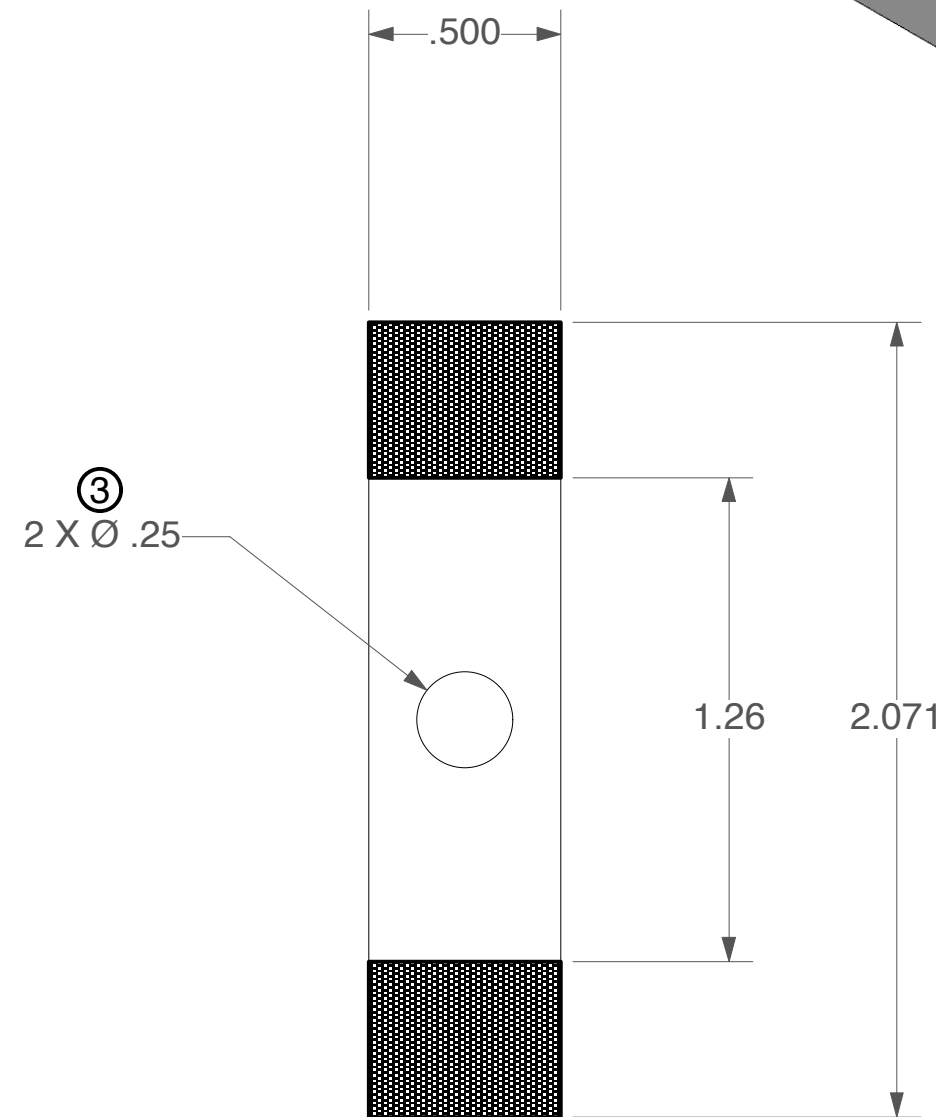
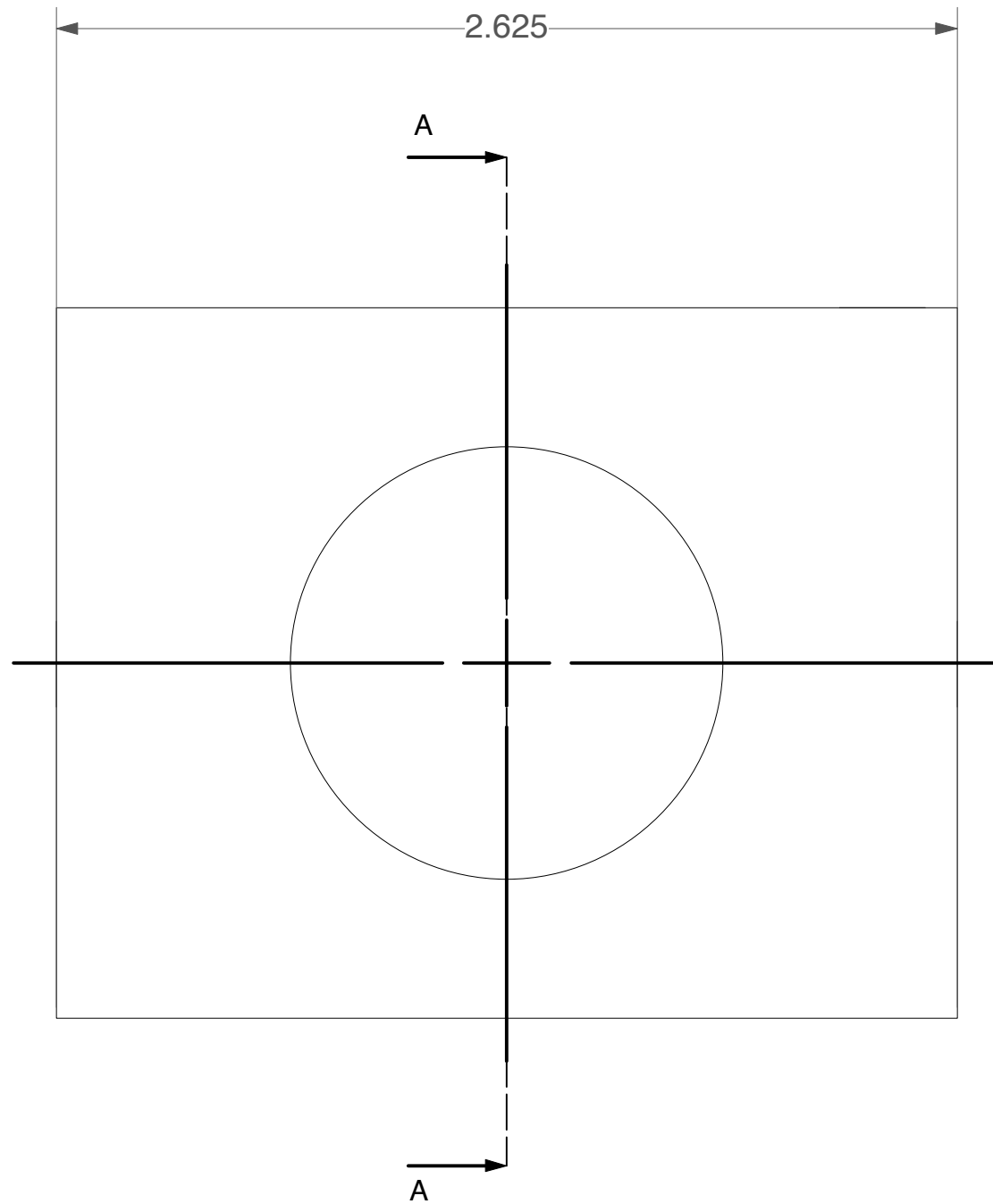
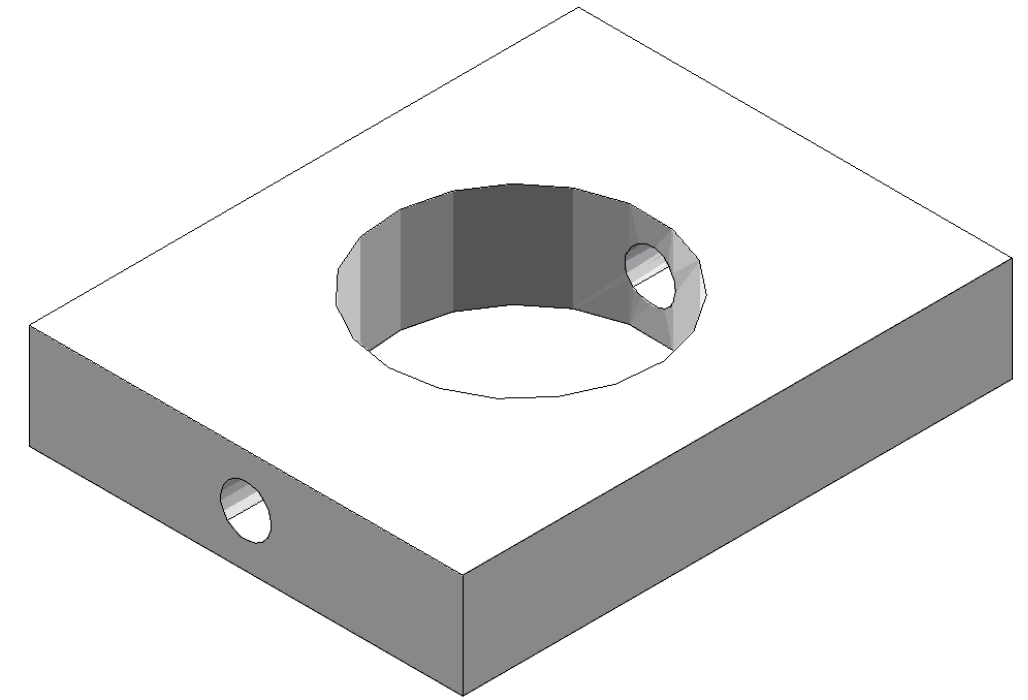


ALL DIMENSIONS ARE IN INCHES.  
TOLERANCES UNLESS OTHERWISE SPECIFIED:  
X.XXX +/- .01  $\angle$  +/- .5

<b>FIU</b>	FLORIDA INTERNATIONAL UNIVERSITY DEPARTMENT OF PHYSICS 11200 SW 8TH ST, MIAMI, FL 33199	
	DATE 06/01/12	PROJECT MAST DIAGNOSTIC
SCALE 2:1		SHEET 2 OF 4
TITLE	CONNECTOR PIECE 2	DRAWN BY RAMONA VALENZUELA PEREZ

NOTES.

1. CONNECTOR PIECES 1, 2, AND 4 ARE MADE TO WELD TO CONNECTOR PIECE 3.
2. BOTH .25 INCH DIAMETER HOLES ALIGN WITH CORRESPONDING HOLES ON SHIELD.
3. BORE THRU FOR A 1/4-20 .25 INCH DIAMETER SHOULDER SCREW (SHOULDER LENGTH .25 INCHES, SHOULDER DIAMETER .3125 INCHES, THREAD LENGTH .4375 INCHES).



SECTION A - A

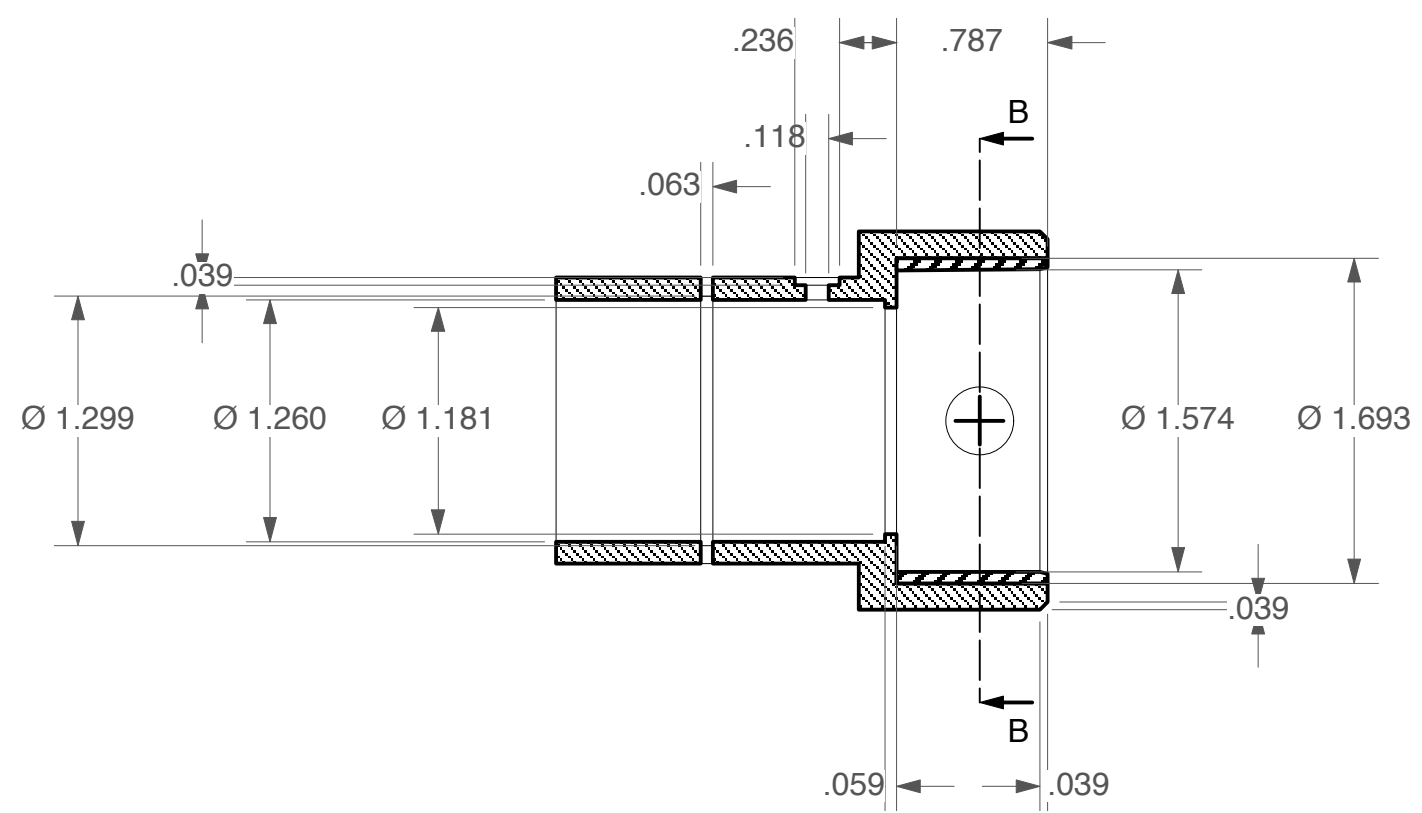
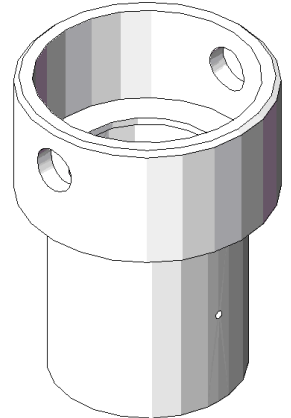
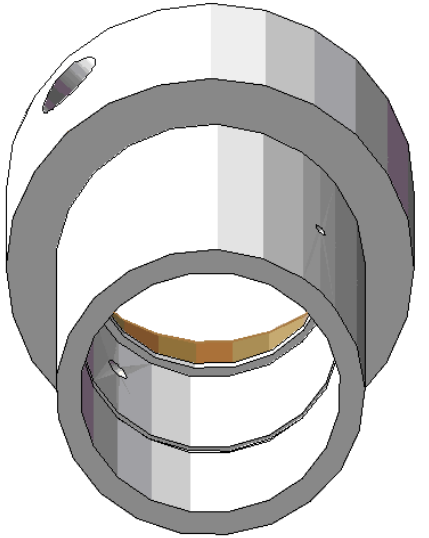
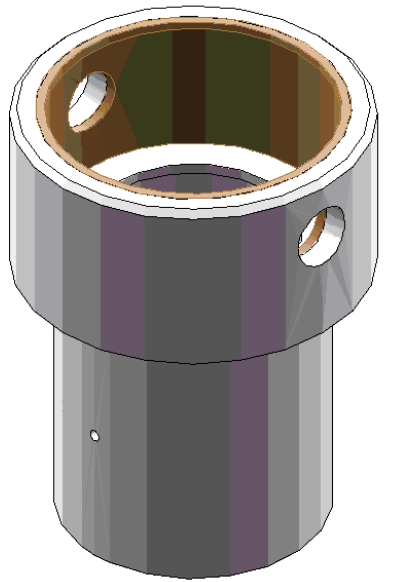
ALL DIMENSIONS ARE IN INCHES.  
TOLERANCES UNLESS OTHERWISE SPECIFIED:  
X.XXX +/- .01  $\angle$  +/- .5

<b>FIU</b>	FLORIDA INTERNATIONAL UNIVERSITY DEPARTMENT OF PHYSICS 11200 SW 8TH ST, MIAMI, FL 33199	
	DATE 06/01/12	PROJECT MAST DIAGNOSTIC
SCALE 2:1		SHEET 3 OF 4
TITLE	CONNECTOR PIECE 3	DRAWN BY RAMONA VALENZUELA PEREZ

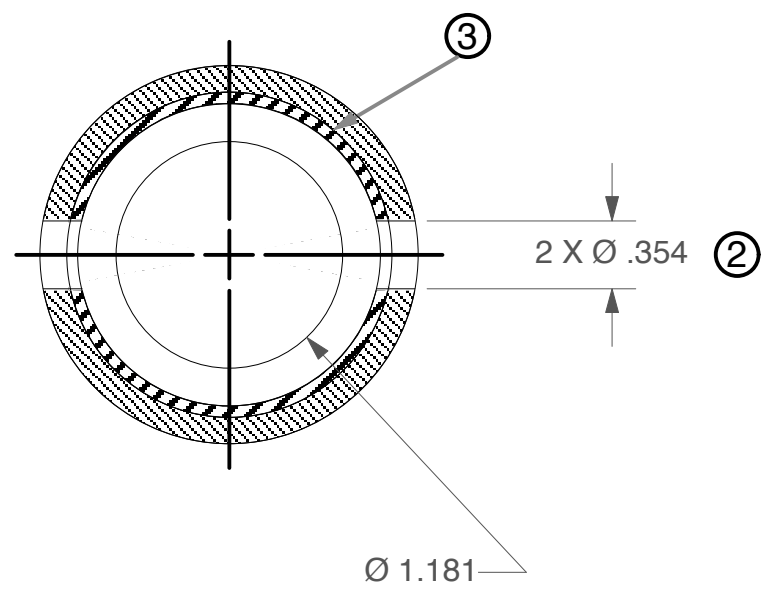
NOTES.

1. CONNECTOR PIECE 4 IS MADE TO BE WELDED TO CONNECTOR PIECE 3.
2. BORE THRU .354 INCH DIAMETER HOLE.
3. BRONZE WASHER H7/p6 PRESS FIT.

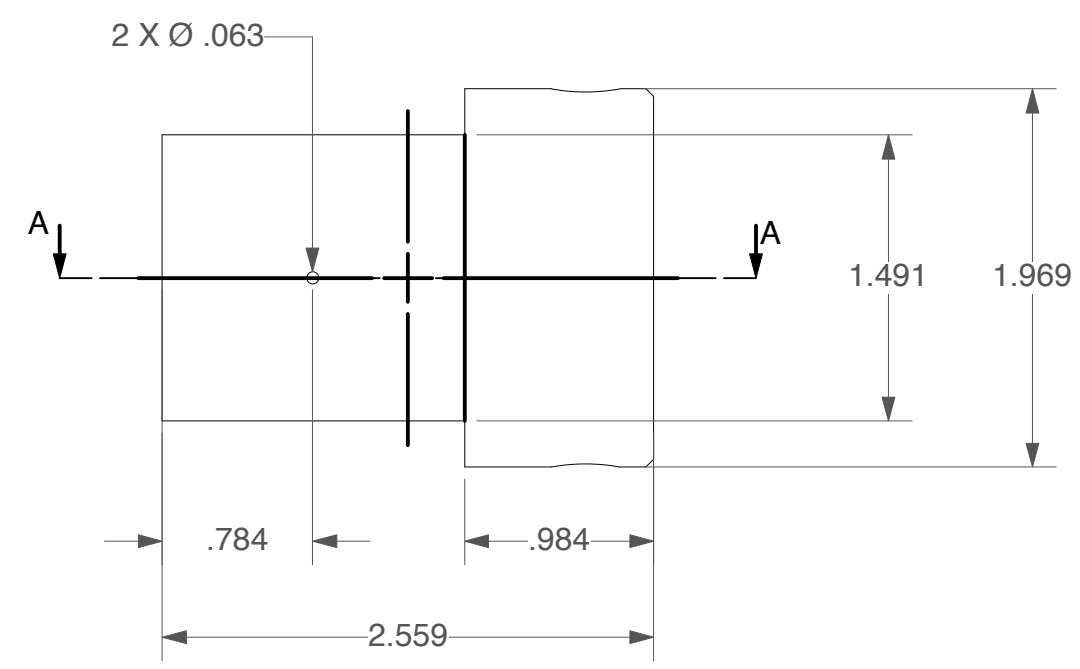
ITEM #	DRAWING #	DESCRIPTION
1	THIS	SS 316 PIECE
2	THIS	INSERT BRONZE WASHER



SECTION A - A



SECTION B - B

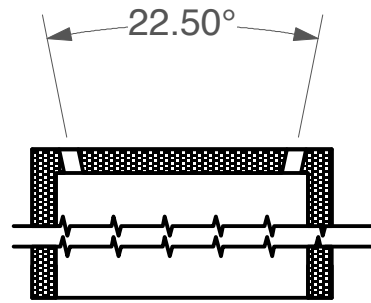


ALL DIMENSIONS ARE IN INCHES.  
TOLERANCES UNLESS OTHERWISE SPECIFIED:  
X.XXX +/- .01 <math>\angle</math> +/- .05

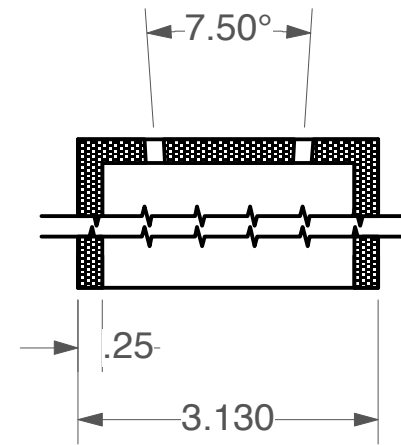
<b>FIU</b>	FLORIDA INTERNATIONAL UNIVERSITY DEPARTMENT OF PHYSICS 11200 SW 8TH ST, MIAMI, FL 33199	
	DATE 06/01/12	PROJECT MAST DIAGNOSTIC
SCALE 1:1		SHEET 4 OF 4
TITLE	CONNECTOR PIECE 4	DRAWN BY RAMONA VALENZUELA PEREZ

NOTES.

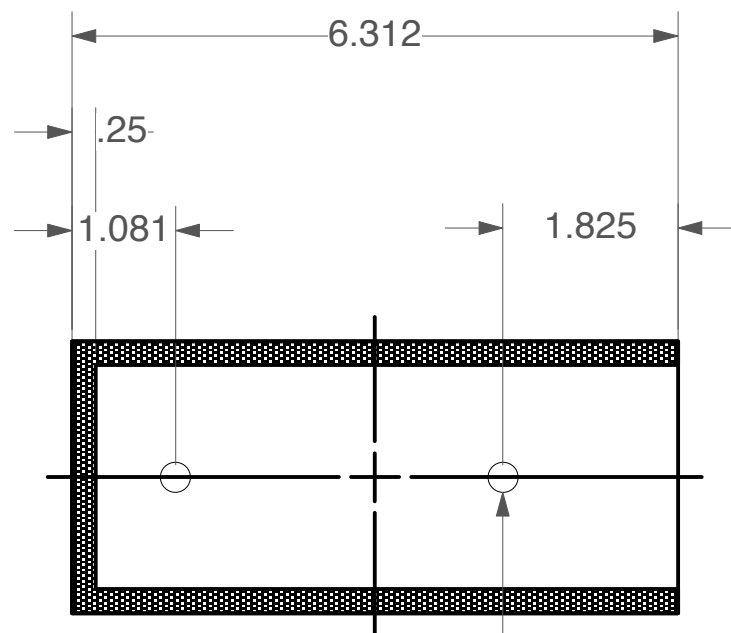
1. SHIELD IS MADE TO FIT OVER MODULE AND CONNECTION, HOLES MUST ALIGN.
2. BORE THRU FOR THE .3125 INCH SHOULDER DIAMETER (0.25 INCH SHOULDER LENGTH) OF A SHOULDER SCREW.
3. BORE THRU .197 INCH DIAMETER HOLE.



SECTION B - B

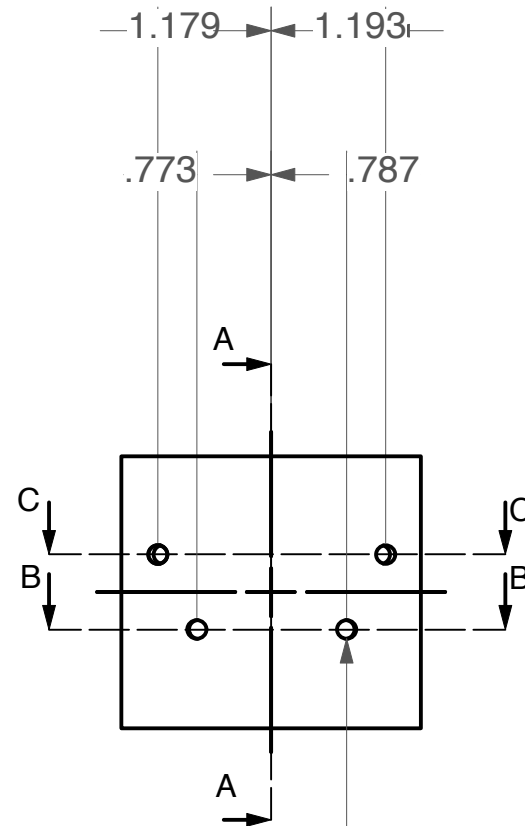


SECTION C - C

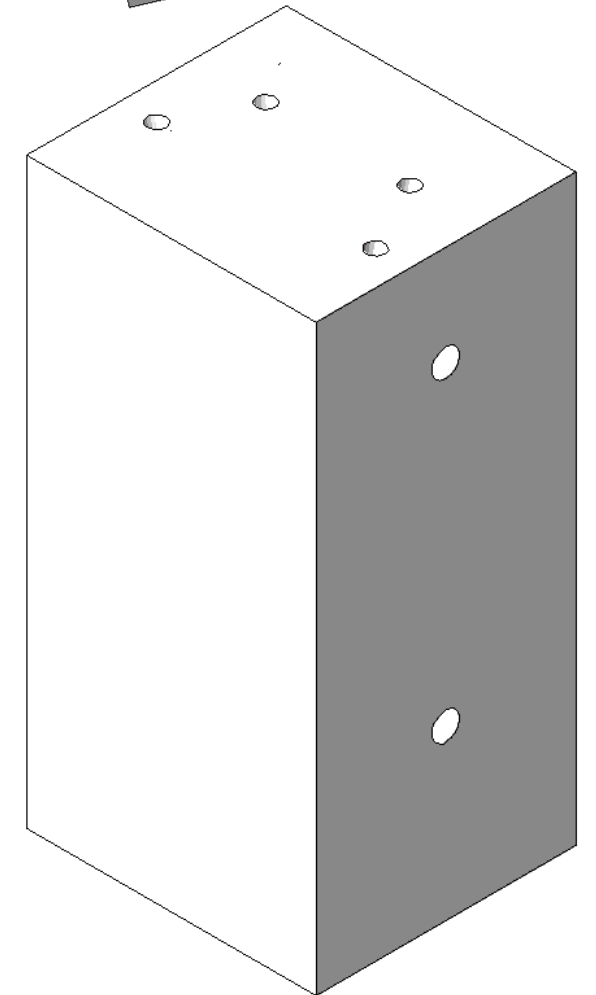
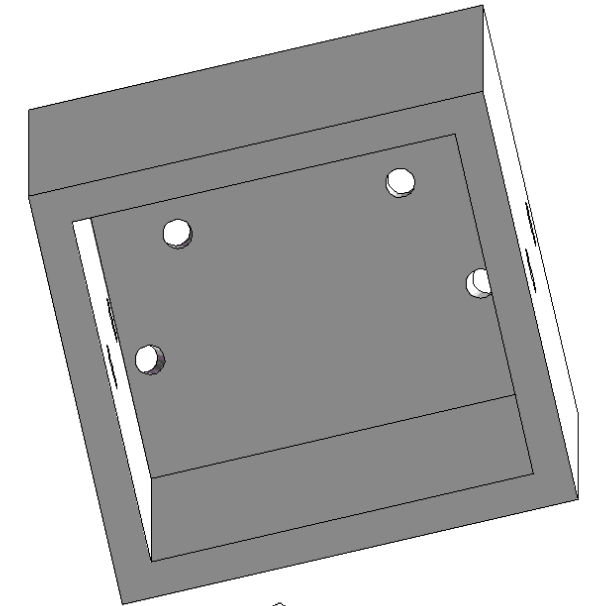


4 X Ø .3125 (2)

SECTION A - A



4 X Ø .197 (3)



ISOMETRIC VIEWS

ALL DIMENSIONS ARE IN INCHES.  
TOLERANCES UNLESS OTHERWISE SPECIFIED:  
X.XXX +/- .01 < +/- .05

<b>FIU</b>	FLORIDA INTERNATIONAL UNIVERSITY DEPARTMENT OF PHYSICS 11200 SW 8TH ST, MIAMI, FL 33199	
	DATE 06/01/12	PROJECT MAST DIAGNOSTIC
SCALE 1:2		MATERIAL BN
TITLE SHIELD		SHEET 1 OF 1
		DRAWN BY RAMONA VALENZUELA PEREZ