



CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

DRWG NO. REV GID

E1000672-v2

SHEET 1 OF 2

ASSEMBLY NO:

D0900136

OVERALL BILL OF MATERIALS

TITLE: OUTPUT FARADAY ISOLATOR, METAL MECHANICAL PARTS & QUANTITIES

	APPROVALS:	DATE:	REV	DCN NO.	BY	CHECK	DCC	DATE
DRAWN / AUTHOR: (REFERENCE CONTENTS)	CIT, CC	6-Nov-10	v2	E1000563	MR			
CHECKED:								
APPROVED:								
DCC RELEASE								

ITEM NO	REQ.	SPARE	TOT.	PART NUMBER	REVISION	DESCRIPTION	MATERIAL
1	1		1	D0900015	V1	Faraday Isolator Table	6061-T6 Al
2	1		1	D0900026	V2	Magnet Mount Plate	6061-T6 Al
3	2		2	D0900027	V2	Copper Plate	Copper
4	1		1	D0900168	V2	Crossbar Plate	6061-T6 Al
5	4		4	D0900169	V2	Crossbar Side	6061-T6 Al
6	1		1	D0900352	V2	Half Wave Plate Holder	6061-T6 Al
7	1		1	D0900439	V1	TFP Polarizer Plate	6061-T6 Al
8	2		2	D0900566	V2	Up Blade Clamp Top	6061-T6 Al
9	4		4	D0900578	V2	Blade Guard Riser	6061-T6 Al
10	4		4	D0900582	V2	Music Wire Split Clamp 1	304, 316 or 302 SSSL
11	4		4	D0900583	V3	Music Wire Split Clamp 2	304, 316 or 302 SSSL
12	4		4	D0900588	V2	Wire Adjustable Adapter	6061-T6 Al
13	1		1	D0900616	V1	Prism Mount Base LH	6061-T6 Al
14	2		2	D0900618	V1	Optical Prism Top Plate	6061-T6 Al
15	4	2	6	D0900619	V1	Clip	304 SSSL
16	1		1	D0900620	V1	Prism Mount Base RH	6061-T6 Al
17	2		2	D0900778	V2	Magnet Attachment Plate	430F or 430FR
18	2		2	D0901271	V3	Blade Guard Crosspiece	6061-T6 Al
19	2		2	D0901514	V1	Blade Clamp Platform	6061-T6 Al
20	2		2	D0901569	V2	Magnet Plate Mounting Front Bracket	6061-T6 Al
21	1		1	D0901570	V2	Magnetic Plate Mounting Back Bracket	6061-T6 Al
22	2		2	D0901764	V1	Table Balance Weight	304, 316 or 302 SSSL
23	1		1	D0902845	V2	Reflection Baffle	A424, Type1, 18 Ga
24	1		1	D1001859	V1	Fixed Stop RH	6061-T6 Al
25	1		1	D1001860	V1	Spring Block RH	6061-T6 Al
26	2	1	3	D1001861	V1	U-Spring	
27	4		4	D1001862	V1	Prism Base Support	6061-T6 Al
28							
29	1		1	D1001870	V1	Fixed Stop LH	6061-T6 Al
30	1		1	D1001871	V1	Spring Block LH	6061-T6 Al
31	1		1	D1001915	V1	Input Baffle Holder	6061-T6 Al
32	2		2	D1001916	V1	Input Baffle Side Support	6061-T6 Al
33	1		1	D1001917	V1	Input Baffle Base	6061-T6 Al
34	6	1	7	D1001919	V1	Beam Dump Mounting Clamp	304 SSSL
35	1		1	D1001959	V1	Recticle Holder	6061-T6 Al
36	4		4	D1001960	V1	Wire Support Block	6061-T6 Al
37	1		1	D1001961	V1	Output Alignment Fixture Base	6061-T6 Al



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DRWG NO. REV GID

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SHEET 1 OF 2

ASSEMBLY NO:

D0900136

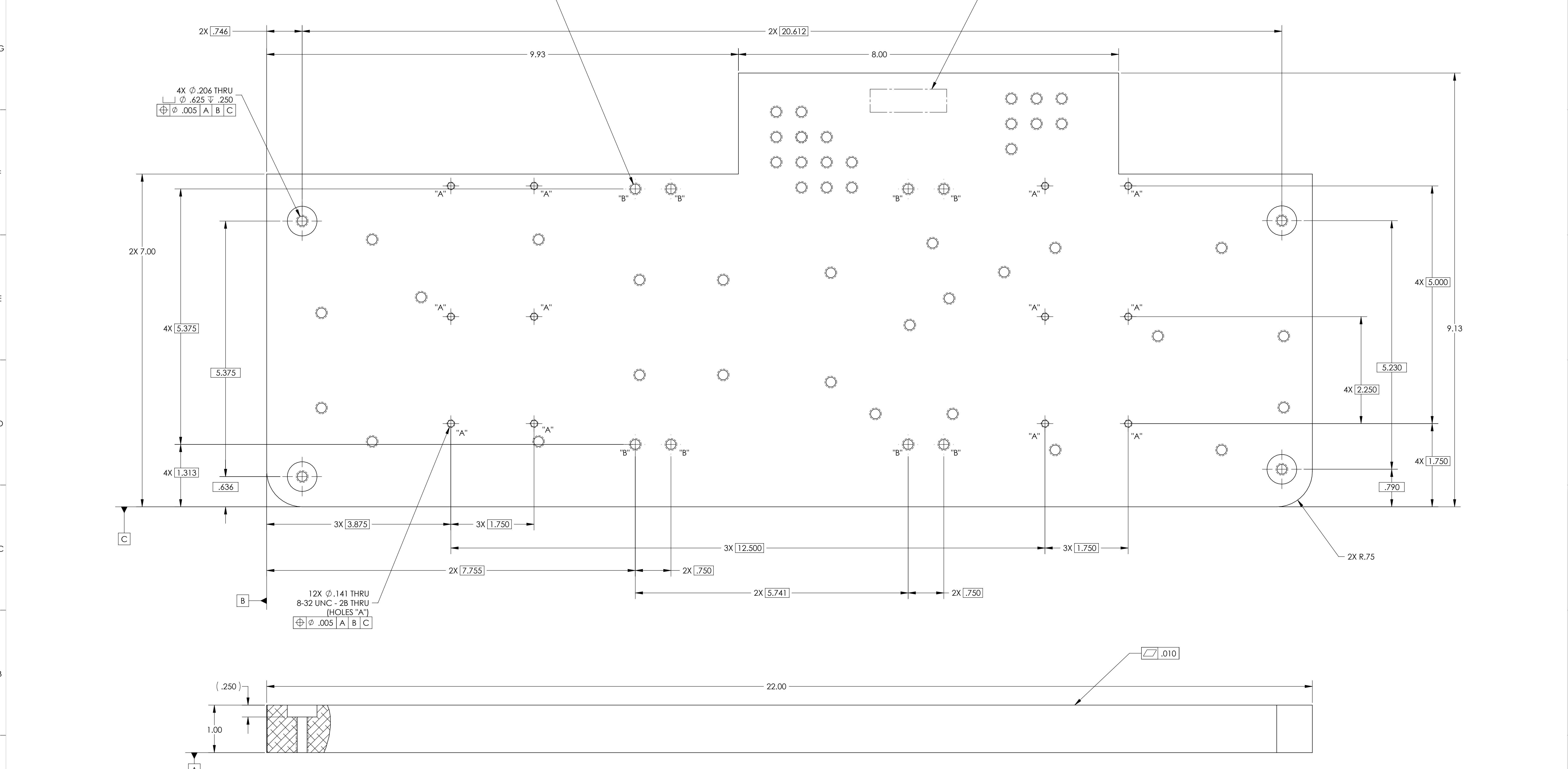
OVERALL BILL OF MATERIALS

TITLE: OUTPUT FARADAY ISOLATOR, METAL MECHANICAL PARTS & QUANTITIES

38	1		1	D1001962	V1	Output Alignment Fixture Support	6061-T6 Al
39	1		1	D1002112	V1	Magnetic Plate Mount Back (Lowered) Bracket	6061-T6 Al
40	2		2	D1002168	V1	Music Wire Split Clamp 3	304, 316 or 302 SSSL
41	2		2	D1002169	V1	Music Wire Split Clamp 4	304, 316 or 302 SSSL
42	1		1	D1002257	V1	Crossbar Plate In	6061-T6 Al
43	2		2	D1002362	V1	Faraday Isolator Beam Dump Mount	6061-T6 Al
44	2		2	D1002533	V1	Output Faraday Isolator Dummy Weight	304, 316 or 302 SSSL
45	2		2	D1002540	V1	Output Faraday Isolator Dummy Weight (Rotate)	304, 316 or 302 SSSL
46	4		4	D1002542	V1	Table Balance Weight .75#	304, 316 or 302 SSSL
47	12	2	14	D1100027	V1	Clip	304 SSSL

NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR TYPE IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED. EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX
 6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

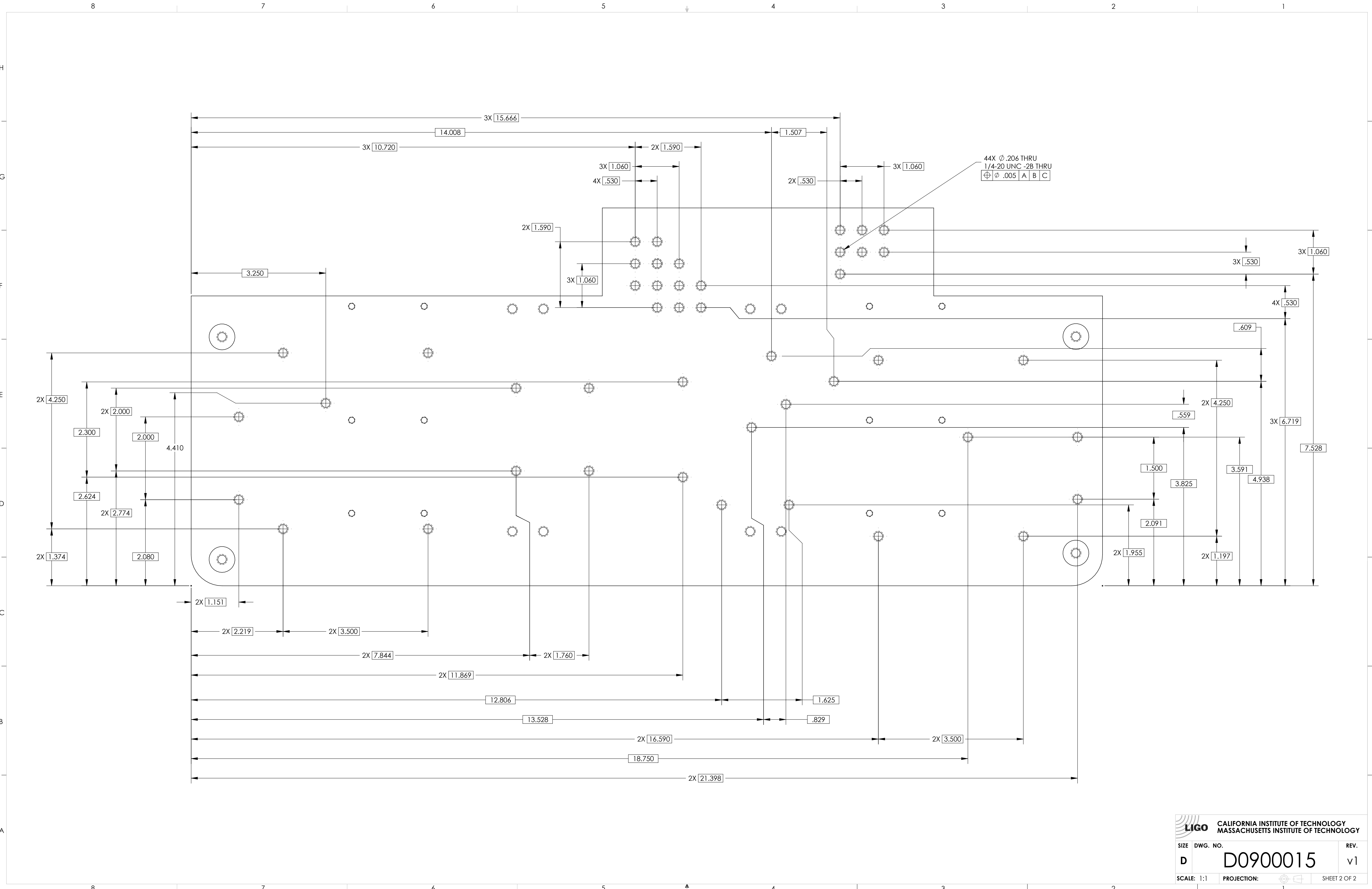
REV.	DATE	DCN #	DRAWING TREE #
v1	08 OCT 2010	E1000563	



D090001E_AudiLIGO_ACS_FID0900623_Isolator Table: PART PDM REV: X-005, DRAWING PDM REV: X-024

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME		
DIMENSIONS ARE IN TOLERANCES: .XX ± .02 .XXX ± .010 ANGULAR ± .5°		1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		FARADAY ISOLATOR TABLE		
MATERIAL: 6061-T6 Al FINISH: 63 μinch		SYSTEM: ADVANCED LIGO SUB-SYSTEM: AOS		DESIGNER: M.RUIZ CHECKER: APPROVAL:	SIZE: D DWG. NO.: D0900015 SCALE: 1:1	REV: v1 SHEET 1 OF 2

DD090015_AudiLIGO_ACS_FT09090623_Isolator Table_PART PDM REV: X:05_DRAWING PDM REV: X:04



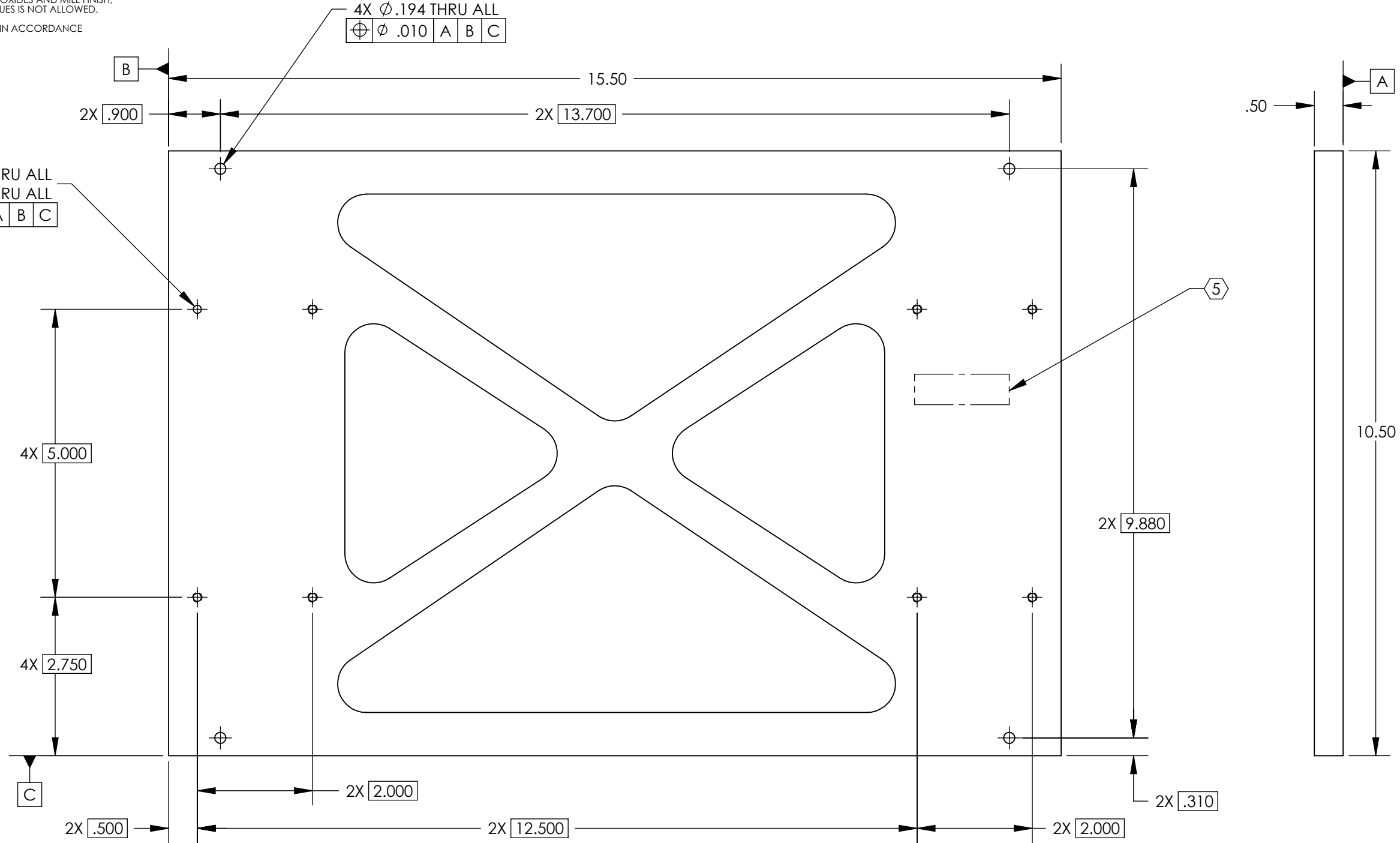
LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SIZE	DWG. NO.	REV.
D	D0900015	v1
SCALE: 1:1	PROJECTION:	SHEET 2 OF 2

8 7 6 5 4 3 2 1

NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
 EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX
 6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
V1	28 JUL 2009	E0900217	
v2	07 OCT 2010	E1000563	

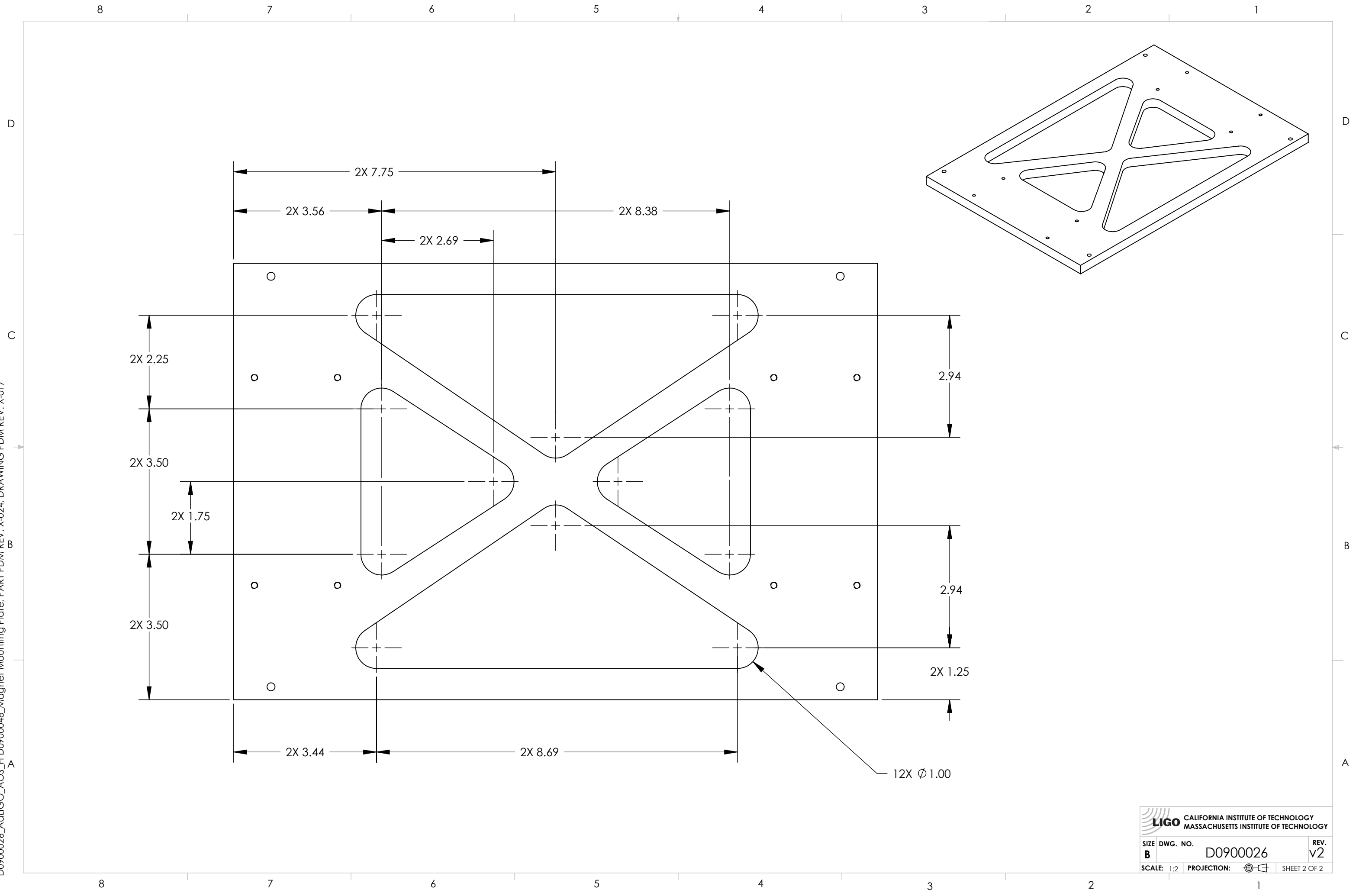



D0900026_AdlIGO_AOS_FID0900048_Magnet Mounting Plate, PART PDM REV: X-024, DRAWING PDM REV: X-017

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN TOLERANCES: .XX ± .02 .XXX ± .010 ANGULAR ± 0.5°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		MAGNET MOUNTING PLATE	
MATERIAL 6061-T6 Al		FINISH 63 μinch		SYSTEM ADVANCED LIGO		SUB-SYSTEM AOS	
NEXT ASSY D0900048				DESIGNER N.Nguyen		SIZE DWG. NO. B	
				DRAFTER K. Mailand		REV. v2	
				CHECKER C. Torrie		SCALE: 1:2	
				APPROVAL C. Torrie		PROJECTION:	
						SHEET 1 OF 2	

8 7 6 5 4 3 2 1

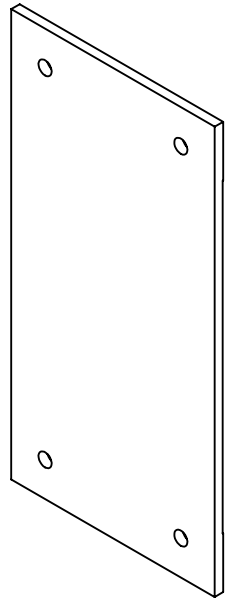
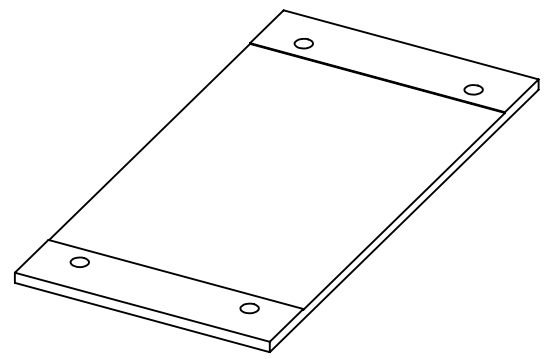
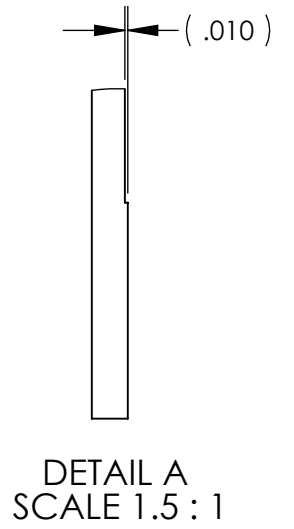
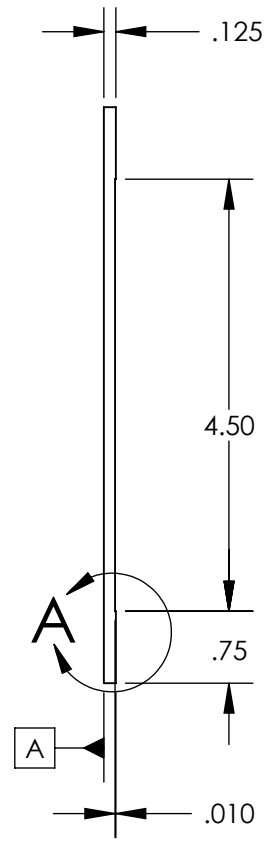
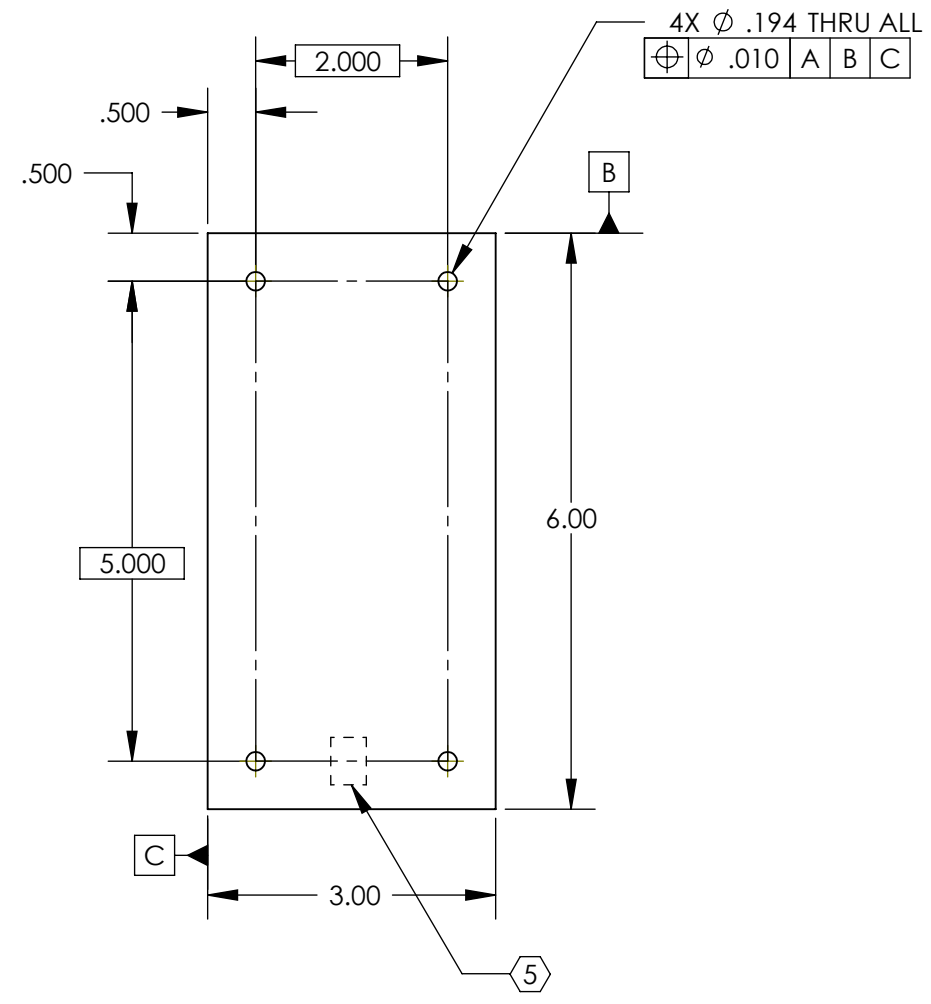
D0900026_AcLIGO_AOS_FI D09000048_Magnet Mounting Plate, PART PDM REV: X-024, DRAWING PDM REV: X-017



 CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		
SIZE	DWG. NO.	REV.
B	D0900026	v2
SCALE: 1:2	PROJECTION:	SHEET 2 OF 2

NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
 6. ~~MACHINE SURFACES TO REMOVE OXIDES~~ AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	19 JUL 2009		
v2	07 OCT 2010	E1000563	



D0900027_AdlIGO_AOS_D0900623_Copper Plate, PART PDM REV: X-009, DRAWING PDM REV: X-014

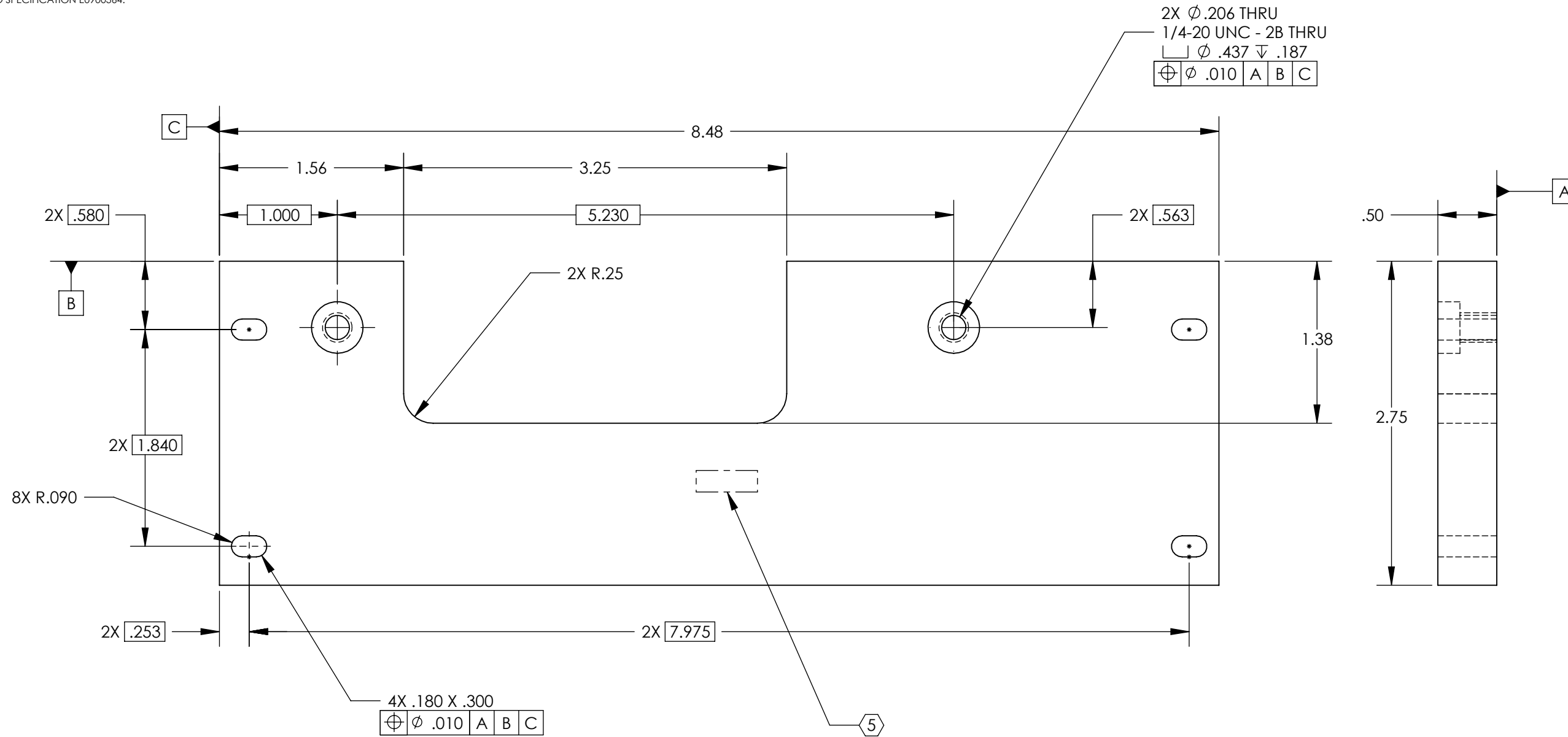
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN TOLERANCES: .XX ± .02 .XXX ± .010 ANGULAR ± °				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		COPPER PLATE	
MATERIAL 99.99% COPPER		FINISH 63 μinch		SYSTEM ADVANCED LIGO		SUB-SYSTEM AOS	
NEXT ASSY D0900048				DESIGNER N.Nguyen		DATE 18 May 2009	
CHECKER				APPROVAL		SIZE DWG. NO. B D0900027	
SCALE: 1:1				PROJECTION:		SHEET 1 OF 1	

D0900168_AdlIGO_AOS_D0900170_Crossbar Plate, PART PDM REV: X-011, DRAWING PDM REV: X-015

NOTES CONTINUED:
5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	01 JUL 2009	DCN #	
v2	07 OCT 2010	E1000563	



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN
TOLERANCES:
.XX ± .02
.XXX ± .010
ANGULAR ± 0.5°

1. INTERPRET DRAWING PER ASME Y14.5-1994.
2. REMOVE ALL SHARP EDGES, R.02 MIN.
3. DO NOT SCALE FROM DRAWING.
4. ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SILICONE, SUCH AS CINCINNATI MILACRON'S CIMTECH 410.

MATERIAL 6061-T6 Al FINISH 63 µinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM ADVANCED LIGO SUB-SYSTEM AOS
NEXT ASSY D0900170

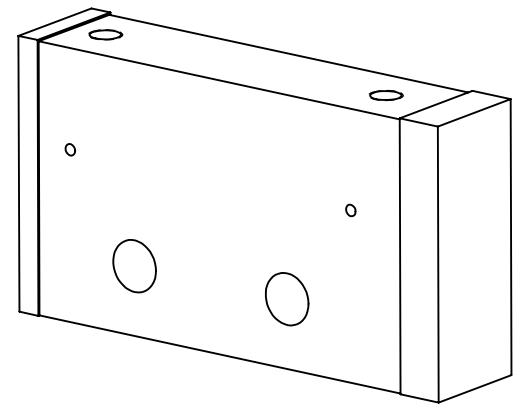
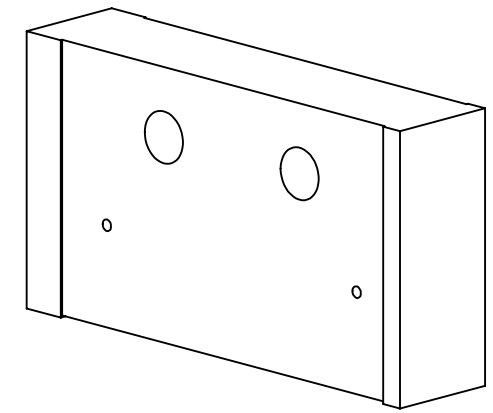
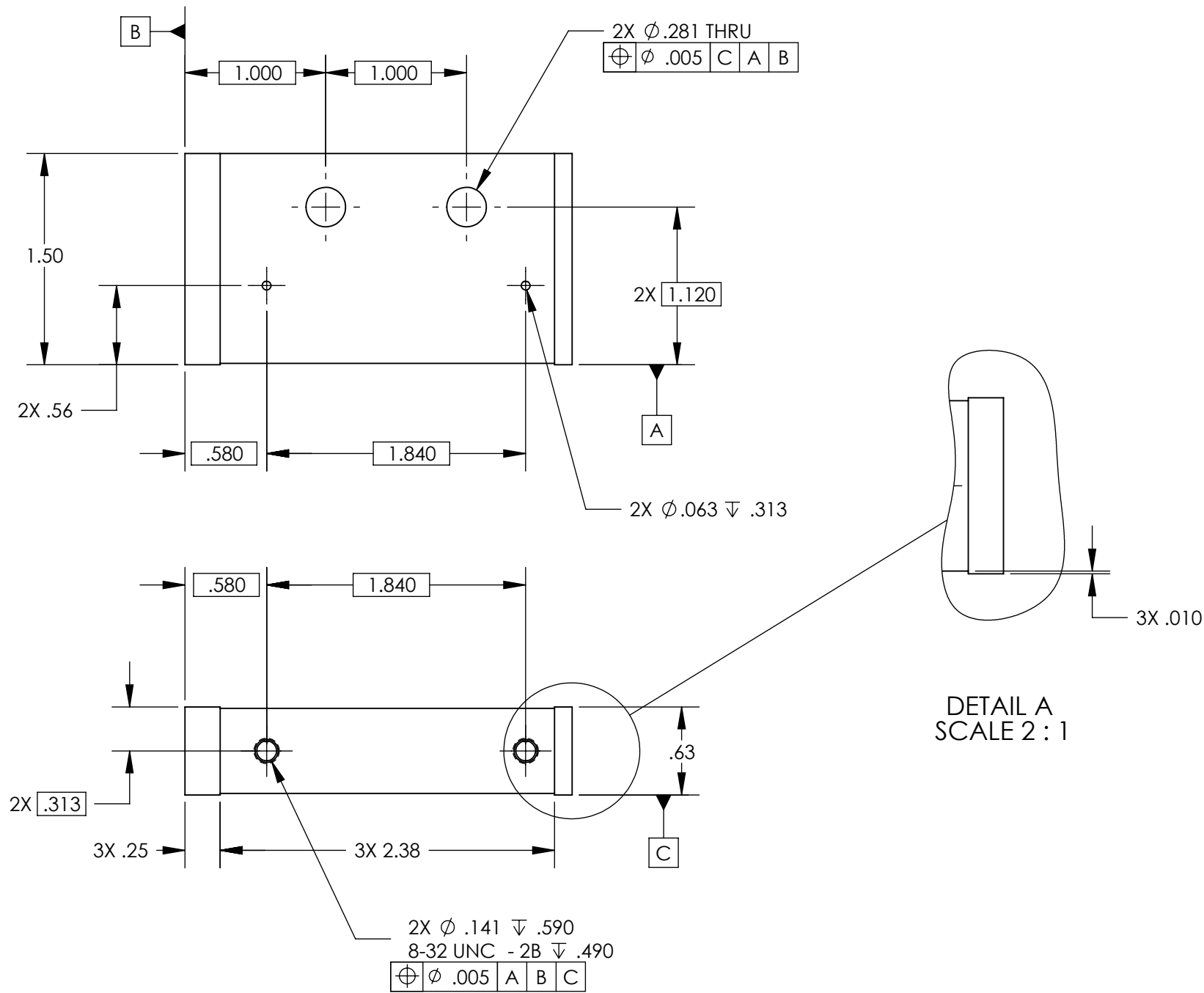
PART NAME			CROSSBAR PLATE		REV.
DESIGNER	DRAWN	CHECKED	APPROVED	SIZE DWG. NO.	REV.
N. Nguyen	26 May 2009	M. SMITH	01 JUL 2009	B	v2
C. TORRIE	01 JUL 2009				

SCALE: 1:1 PROJECTION: SHEET 1 OF 1

NOTES CONTINUED:

- 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
- 6. ~~FINISH: EXPOSED SURFACES TO BE CHAMFERED AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.~~
- 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	01 JUL 2009	DCN #	
v2	07 OCT 2010	E1000563	



D0900169_AdlIGO_AOS_D0900170_Crossbar Side, PART PDM REV: X-014, DRAWING PDM REV: X-012

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN
 TOLERANCES:
 .XX ± .02
 .XXX ± .010
 ANGULAR ± °

1. INTERPRET DRAWING PER ASME Y14.5-1994.
 2. REMOVE ALL SHARP EDGES, R.02 MIN.
 3. DO NOT SCALE FROM DRAWING.
 4. ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SILICONE, SUCH AS CINCINNATI MILACRON'S CIMTECH 410.

MATERIAL 6061-T6 Al FINISH 63 μinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM ADVANCED LIGO SUB-SYSTEM AOS
 NEXT ASSY D0900170 & D1002256

PART NAME			CROSSBAR SIDE		REV.
DESIGNER	DRFTR	CHECKER	APPROVAL	SIZE DWG. NO.	REV.
N.Nguyen	M. SMITH	C. TORRIE		B D0900169	v2
26 MAY 2009	01 JUL 2009	01 JUL 2009		SCALE: 1:1	PROJECTION:
				SHEET 1 OF 1	

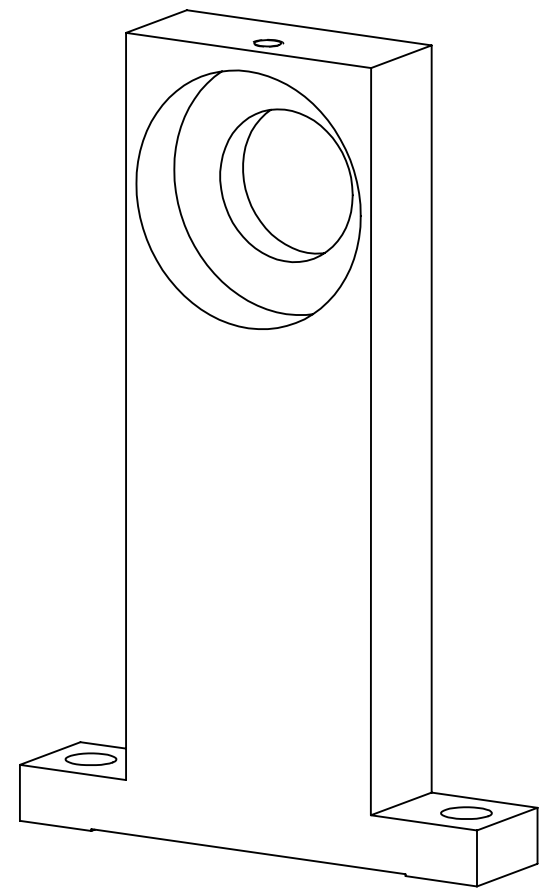
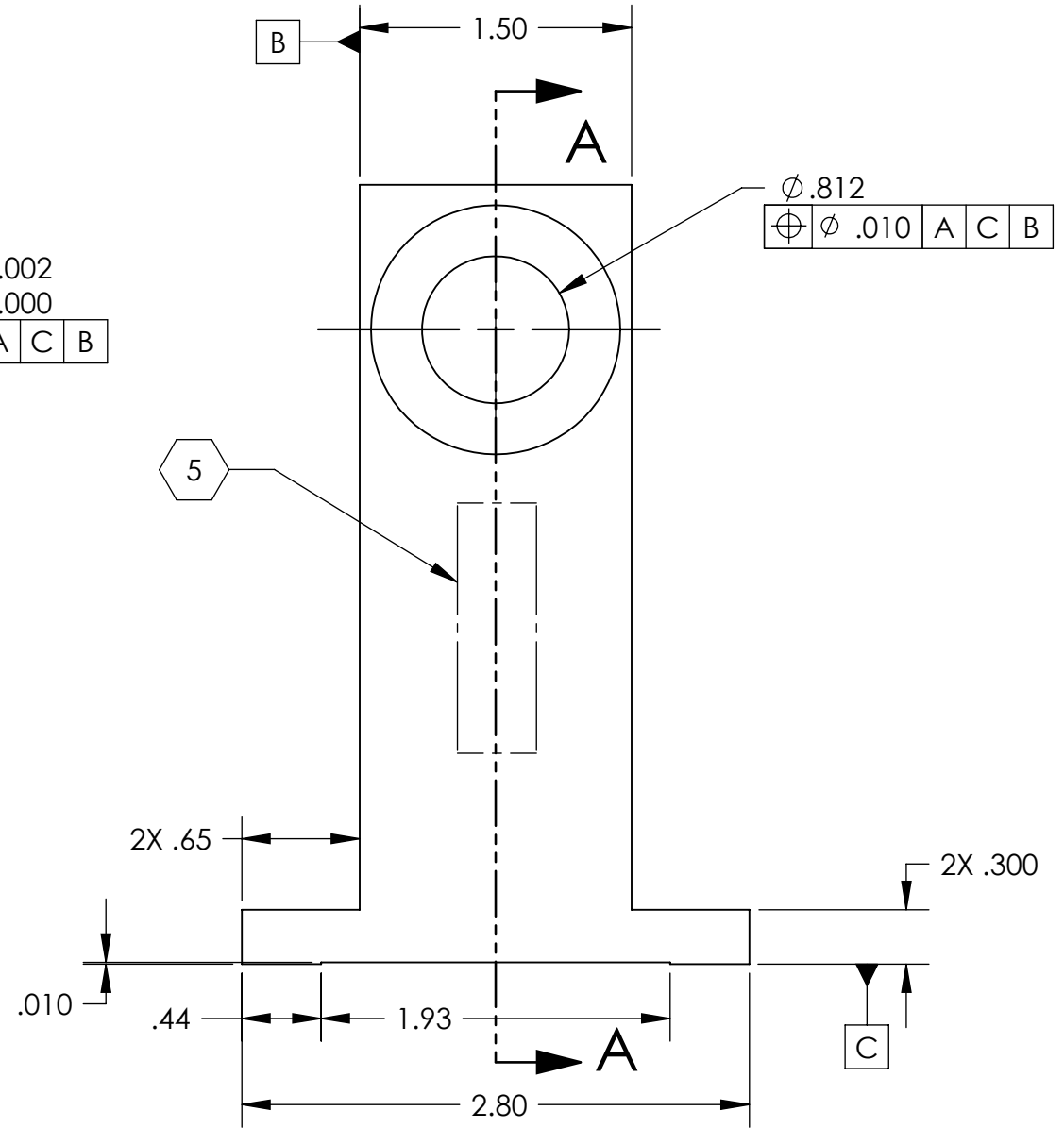
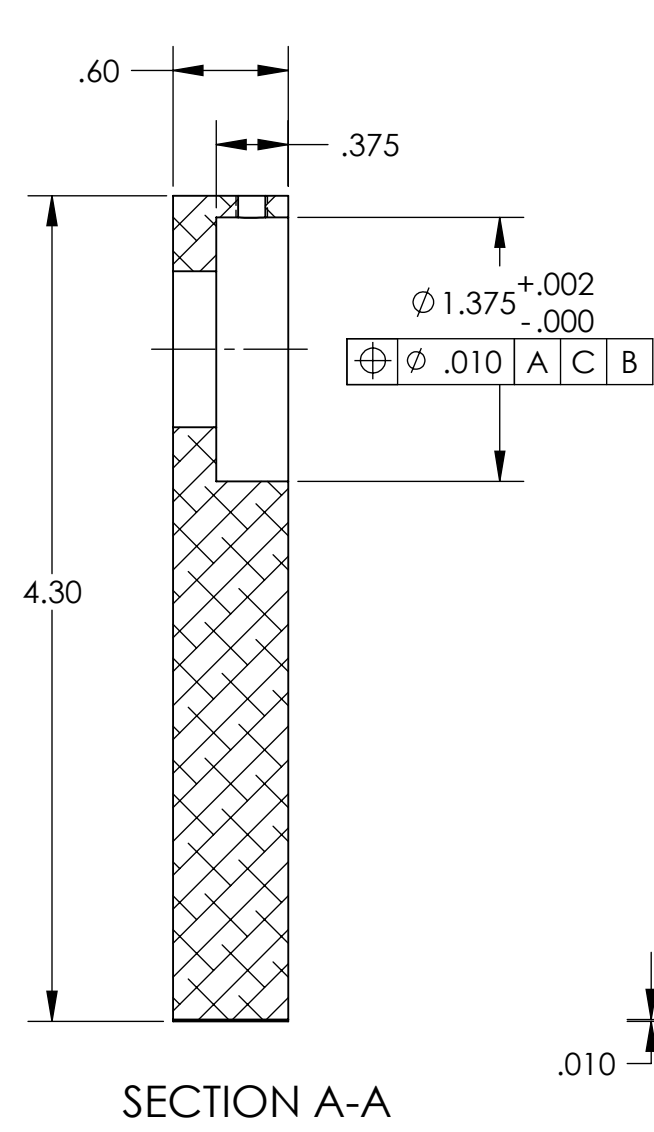
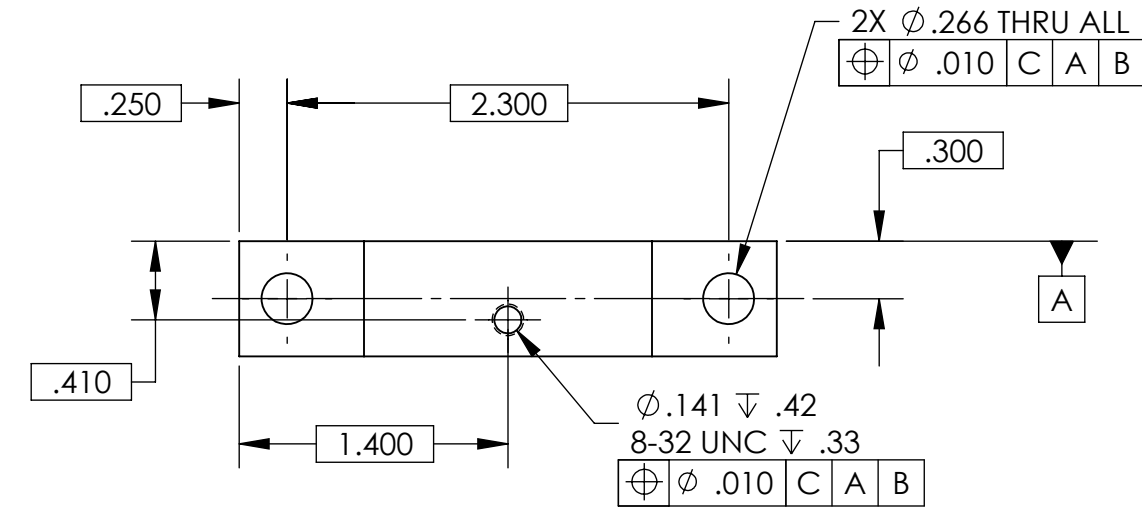
NOTES CONTINUED:

5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.

7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	08 OCT 2010	E1000563	
v2	07 JAN 2011	E1000563	



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

1. INTERPRET DRAWING PER ASME Y14.5-1994.
2. REMOVE ALL SHARP EDGES, R.02 MIN.
3. DO NOT SCALE FROM DRAWING.
4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

TOLERANCES:
.XX ± .02
.XXX ± .010
ANGULAR ± 0.6°

DIMENSIONS ARE IN INCHES

MATERIAL	6061-T6 Al	FINISH	63 µinch
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CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME		HALF WAVE PLATE HOLDER	
SYSTEM	ADVANCED LIGO	SUB-SYSTEM	AOS	DESIGNER	
NEXT ASSY	D0900353	DRAFTER	N.Nguyen	DATE	09 FEB 2010
		CHECKER		SIZE	DWG. NO.
		APPROVAL		B	D0900352
				SCALE	1:1
				PROJECTION	
					SHEET 1 OF 1

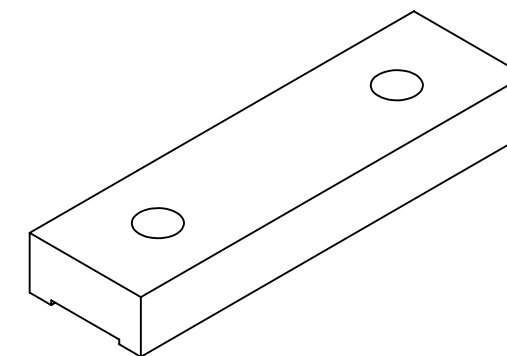
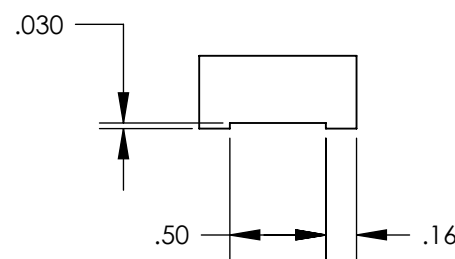
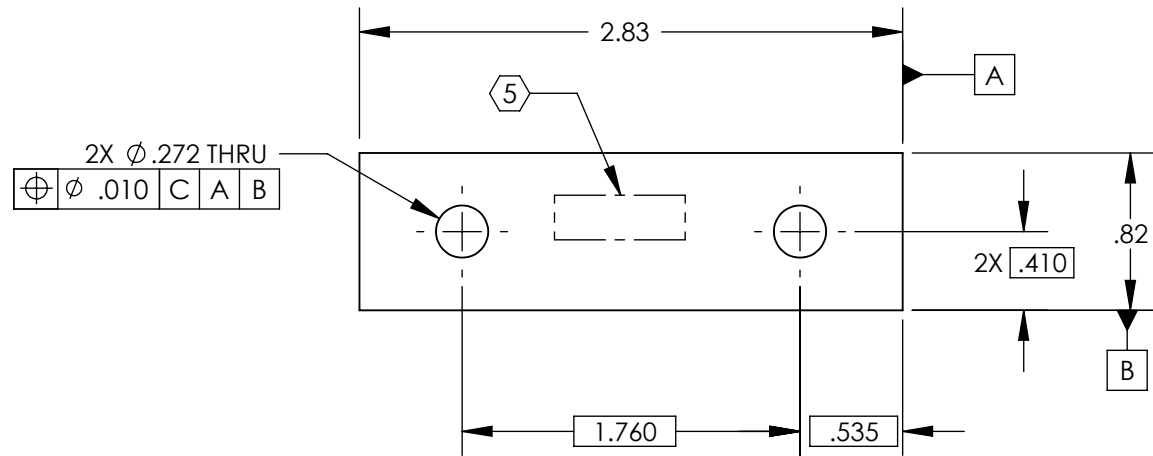
D0900352_AdlIGO-AOS_D0900353_Half Wave Plate Holder, PART PDM REV: X-010, DRAWING PDM REV: X-007

NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
 EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH, USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.

7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	14 Jul 2009	E0900203	
v2	07 OCT 2010	E1000563	



D0900566_AdlIGO_AOS_D0900570_Upper Blade Clamp_Top, PART PDM REV: X-007, DRAWING PDM REV: X-008

D

C

B

A

D

C

B

A

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN TOLERANCES: .XX ± .02 .XXX ± .010 ANGULAR ± °				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		UP BLADE CLAMP TOP	
						MATERIAL 6061-T6 Al FINISH 63 μinch	
NEXT ASSY D0900136				DESIGNER N.Nguyen 14 Jul 2009 DRAFTER K. Mailand 16 Jul 2009 CHECKER C. Torrie 17 Jul 2009 APPROVAL		SIZE DWG. NO. B D0900566 REV. v2	
				SCALE: 1:1		PROJECTION: SHEET 1 OF 1	

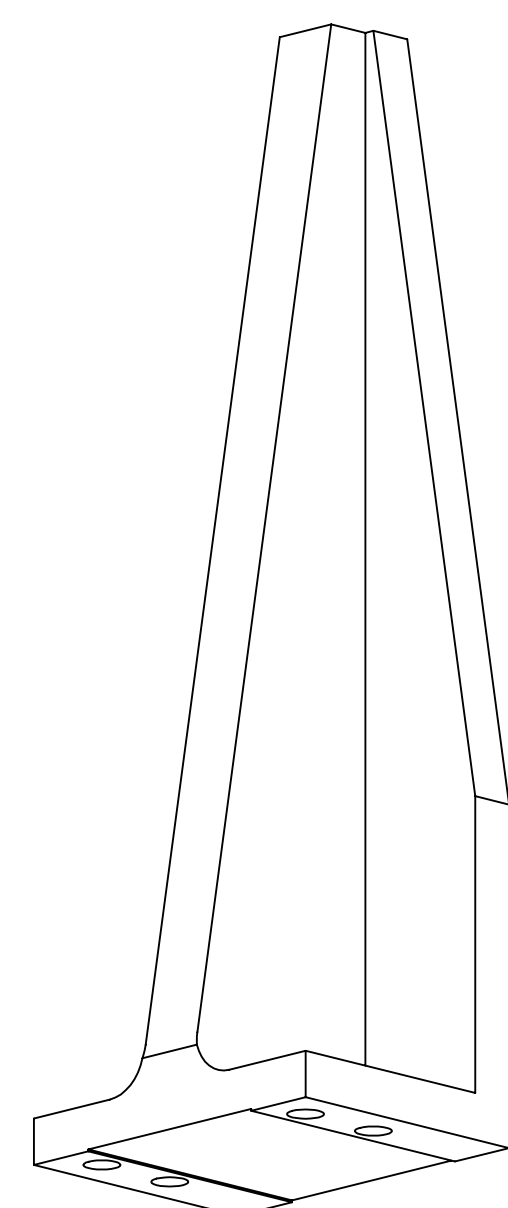
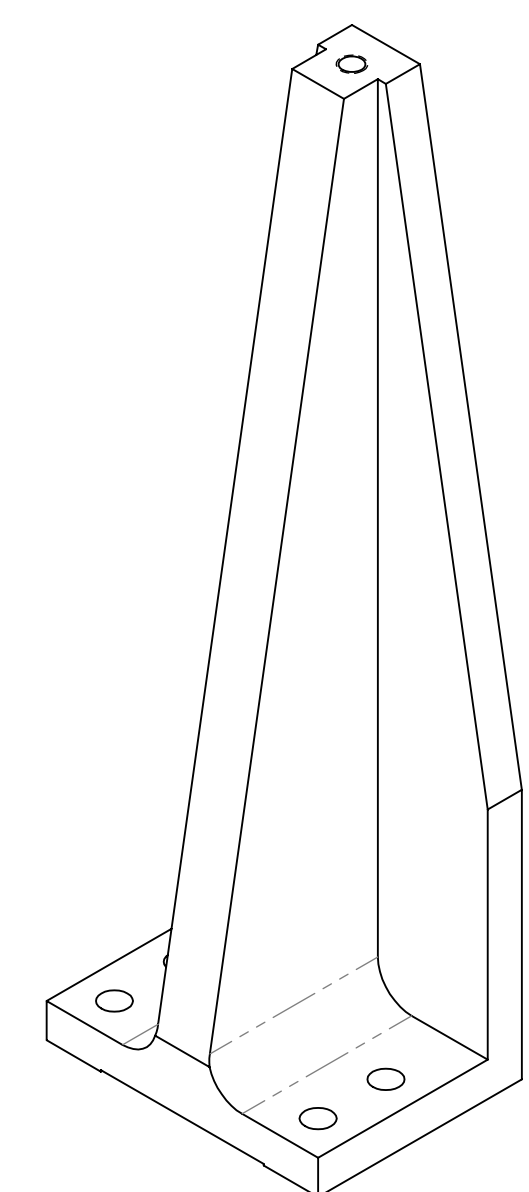
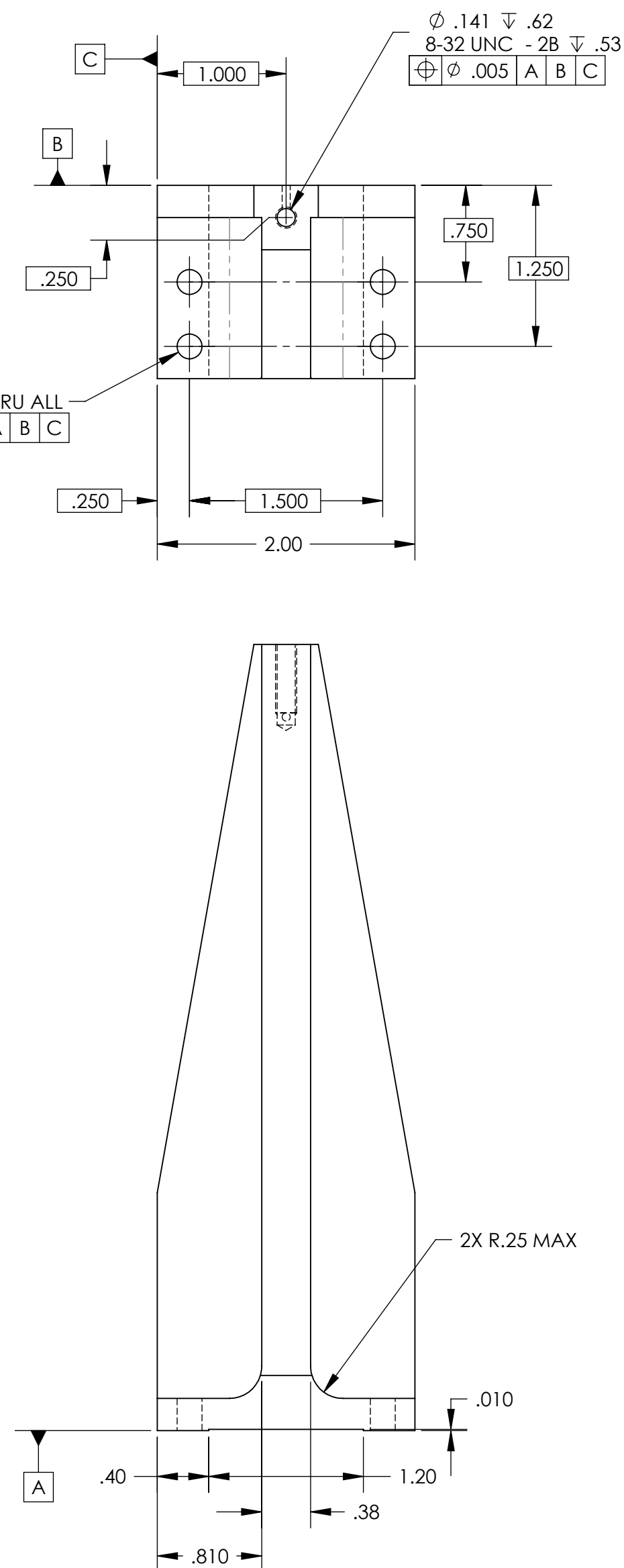
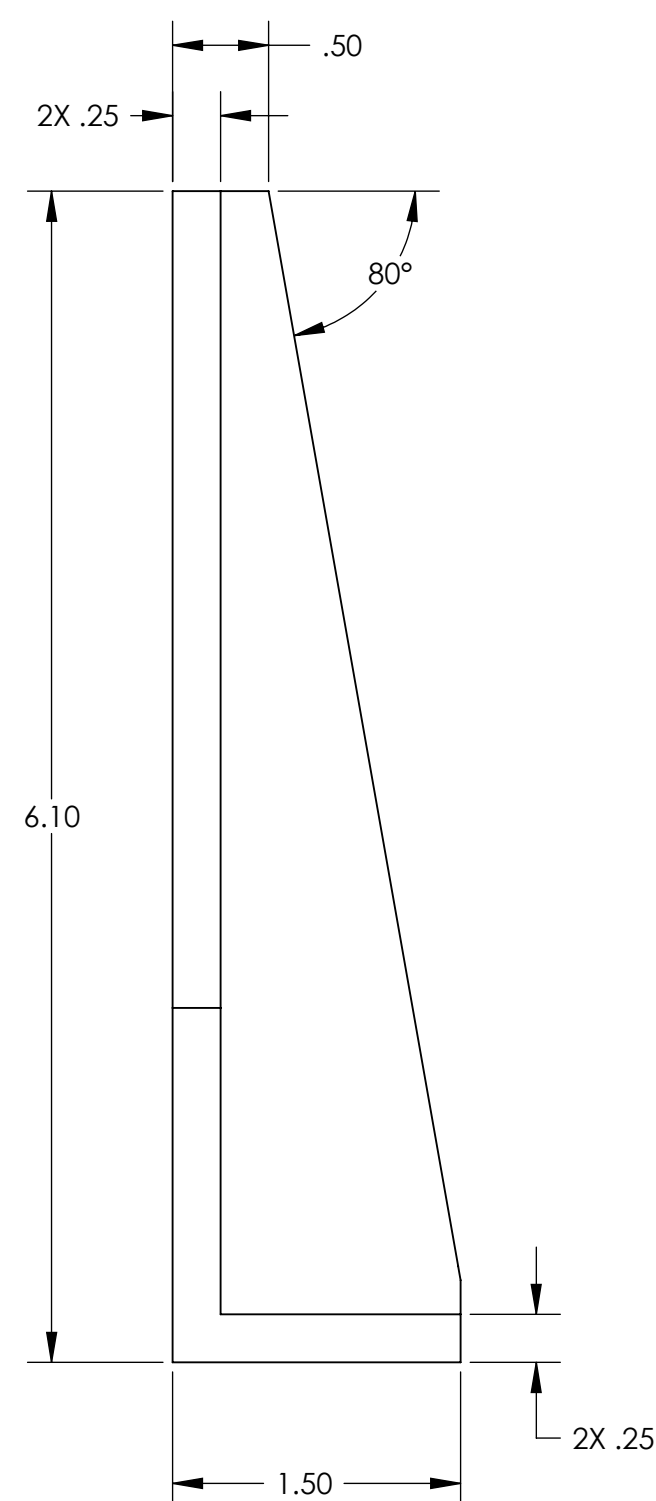
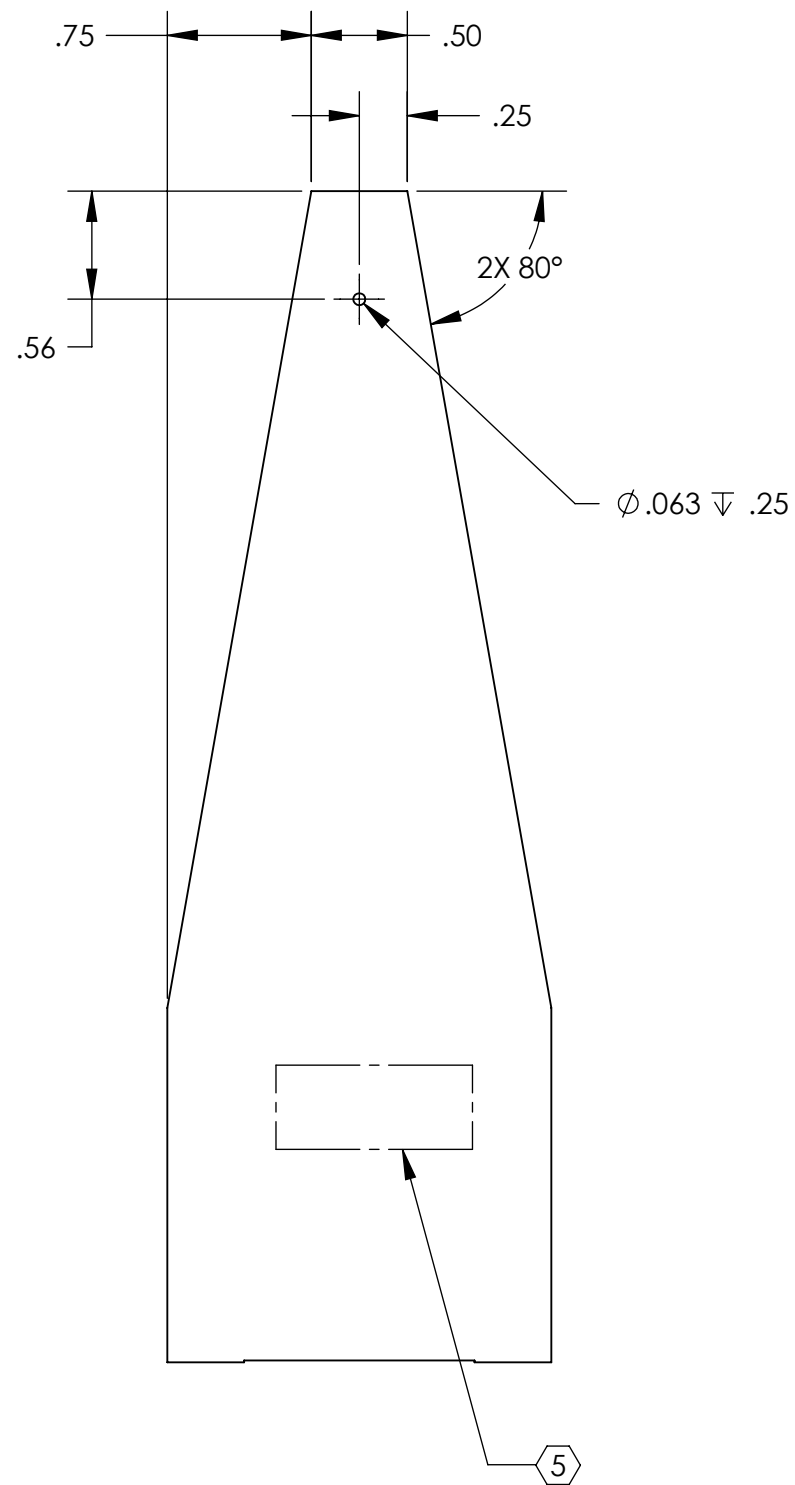
NOTES CONTINUED:

5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED. EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH, USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.

7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	21 JUL 2009	E0900209	-
v2	07 OCT 2010	E1000563	-
-	-	-	-



DIMENSIONS ARE IN INCHES
 TOLERANCES:
 .XX ± .01
 .XXX ± .005
 ANGULAR ± 0.5°

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)
 1. INTERPRET DRAWING PER ASME Y14.5-1994.
 2. REMOVE ALL SHARP EDGES, R.02 MIN.
 3. DO NOT SCALE FROM DRAWING.
 4. ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SILICONE, SUCH AS CINCINNATI MILACRON'S CIMTECH 410.
 MATERIAL: 6061-T6 Al
 FINISH: 63 μinch

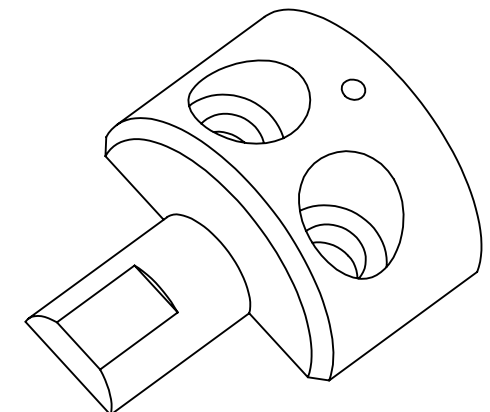
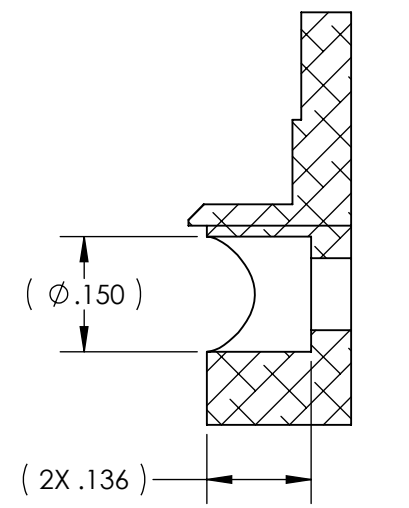
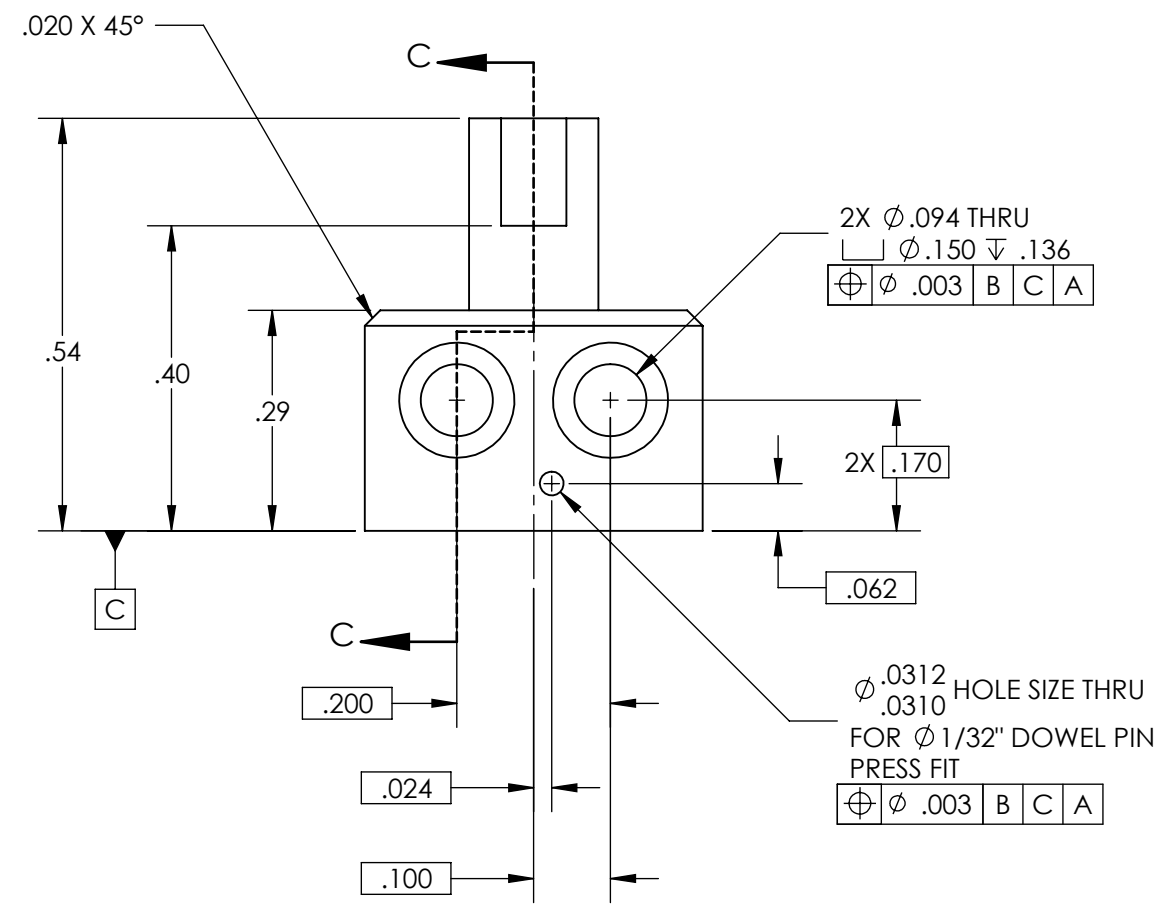
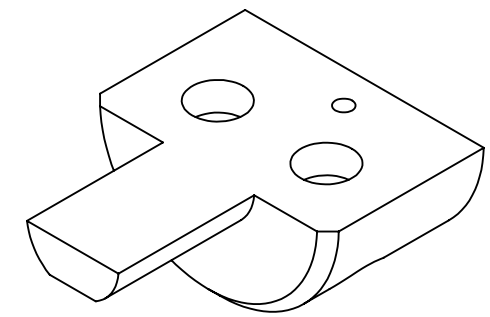
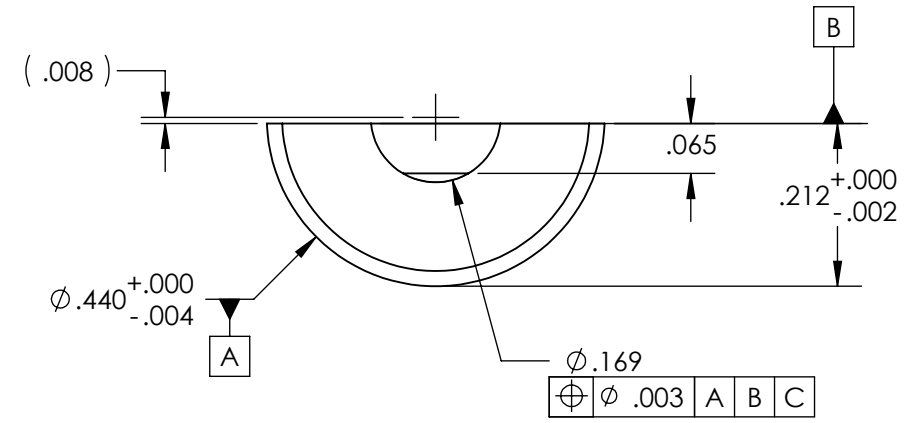
LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY
 SYSTEM: ADVANCED LIGO
 SUB-SYSTEM: AOS
 NEXT ASSY: D0900579

PART NAME: BLADE GUARD RISER
 DESIGNER: N.Nguyen
 DRAFTER: N.Nguyen
 CHECKER: K. MAILAND
 APPROVAL: C. TORRIE
 SIZE: c
 DWG. NO.: D0900578
 REV.: v2
 SCALE: 1:1
 PROJECTION: SHEET 1 OF 1

NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO DYES OR INKS) A UNIQUE THREE DIGIT SERIAL NUMBER & REVISION NUMBER ON EACH PART. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. BAG AND TAG PARTS WITH THEIR DRAWING PART NUMBER, REVISION, VARIANT OR "TYPE" (IF APPLICABLE), AND QUANTITY. IF PARTS ARE TOO SMALL TO SCRIBE, BAGGING AND TAGGING ALONE IS SUFFICIENT.
 EXAMPLE (PART): 001-v1
 EXAMPLE (TAG): DXXXXXX-VY, TYPE-XX, QTY: TBD

REV.	DATE	DCN #	DRAWING TREE #
v1	01 APR 2009	E0900244	
v2	07 OCT 2010	E1000563	

D 6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.



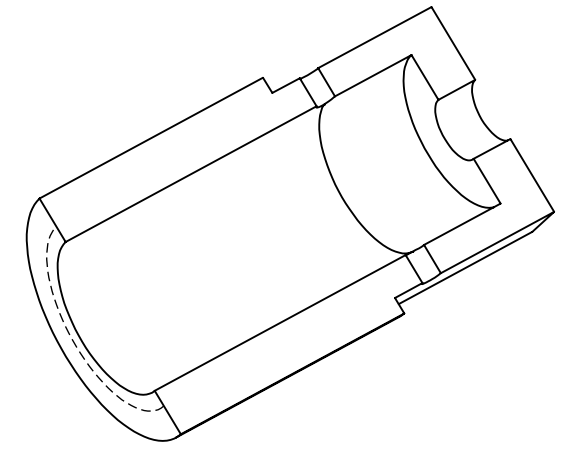
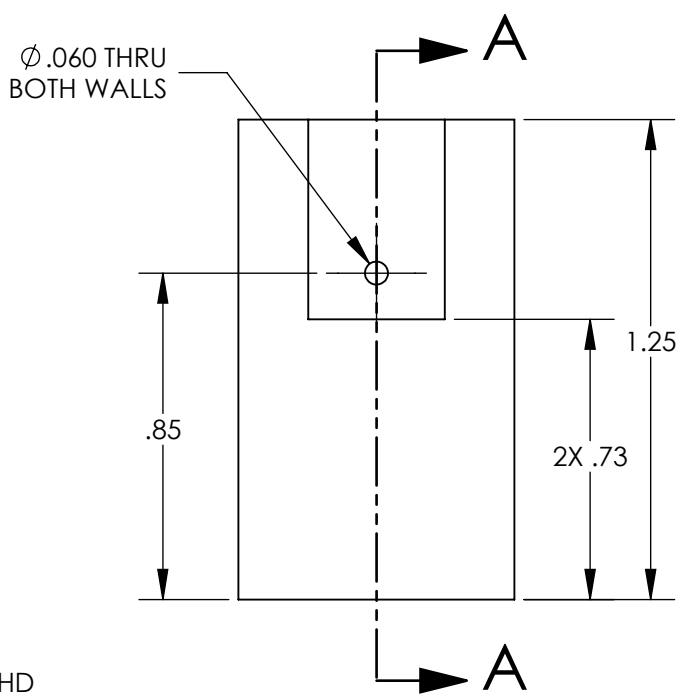
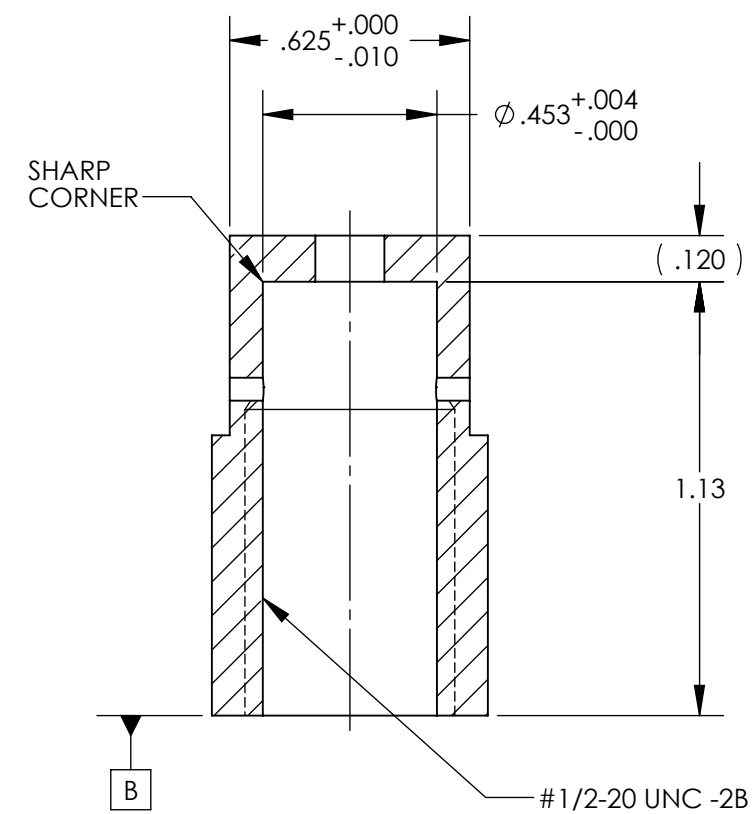
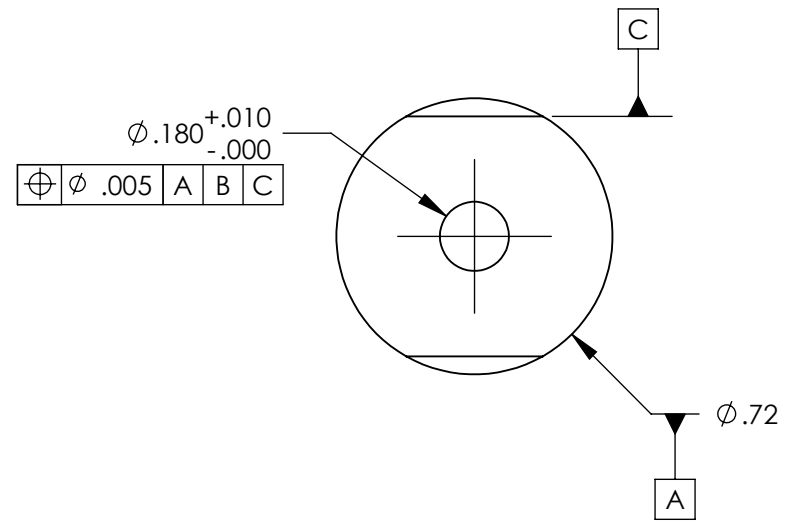
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .005 .XXX ± .002 ANGULAR ± 0.5°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		MUSIC WIRE SPLIT CLAMP 1	
MATERIAL 304, 316 OR 302 SSTL		FINISH 63 μinch		SYSTEM ADVANCED LIGO		SUB-SYSTEM AOS	
NEXT ASSY D0900586				DESIGNER N.Nguyen 18 Aug 2009		SIZE DWG. NO. B D0900582	
				DRAFTER M. Smith 21 Aug 2009		REV. v2	
				CHECKER M. Smith 21 Aug 2009		SCALE: 1:1 PROJECTION:	
				APPROVAL		SHEET 1 OF 1	

D0900582_AdlIGO_AOS_D0900586_Music Wire Split Clamp 1, PART PDM REV: X-015, DRAWING PDM REV: X-013

NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO DYES OR INKS) A UNIQUE THREE DIGIT SERIAL NUMBER & REVISION NUMBER ON EACH PART. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. BAG AND TAG PARTS WITH THEIR DRAWING PART NUMBER, REVISION, VARIANT OR "TYPE" (IF APPLICABLE), AND QUANTITY. IF PARTS ARE TOO SMALL TO SCRIBE, BAGGING AND TAGGING ALONE IS SUFFICIENT.
 EXAMPLE (PART): 001-v1
 EXAMPLE (TAG): DXXXXXX-VY, TYPE-XX, QTY: TBD

6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	01 APR 2009	E0900244	
v2	07 OCT 2010	E1000563	



SECTION A-A
SCALE 2:1

#1/2-20 UNC -2B X .79 DP THD
(BOTTLE BRUSH THOROUGHLY TO CLEAN THREADS)

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
DIMENSIONS ARE IN	
TOLERANCES: .XX ± .01 .XXX ± .005	
ANGULAR ± 0.5°	
1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.	
MATERIAL	FINISH
6061-T6 Al	63 μinch

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME		WIRE ADJUSTABLE ADAPTER	
SYSTEM	SUB-SYSTEM	DESIGNER	DATE	SIZE	DWG. NO.
ADVANCED LIGO	AOS	N.Nguyen	12 May 09	B	D0900588
NEXT ASSY	FARADAY ISOLATOR	CHECKER	APPROVAL	SCALE: 1:1	PROJECTION:
					REV. v2
					SHEET 1 OF 1

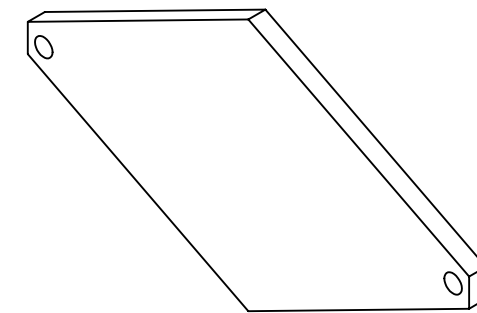
D0900588_AdlIGO_AOS_FARADAY ISOLATOR_Wire Adjustable Adapter, PART PDM REV: X-008, DRAWING PDM REV: X-013

D0900618_alIGO_AOS_D0900614_Faraday Isolator Prism Clamp, PART PDM REV: X-003, DRAWING PDM REV: X-006

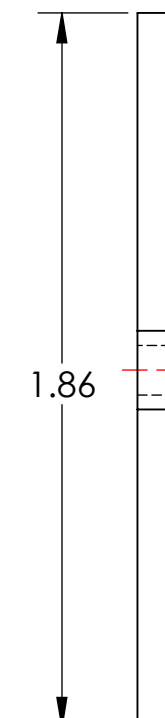
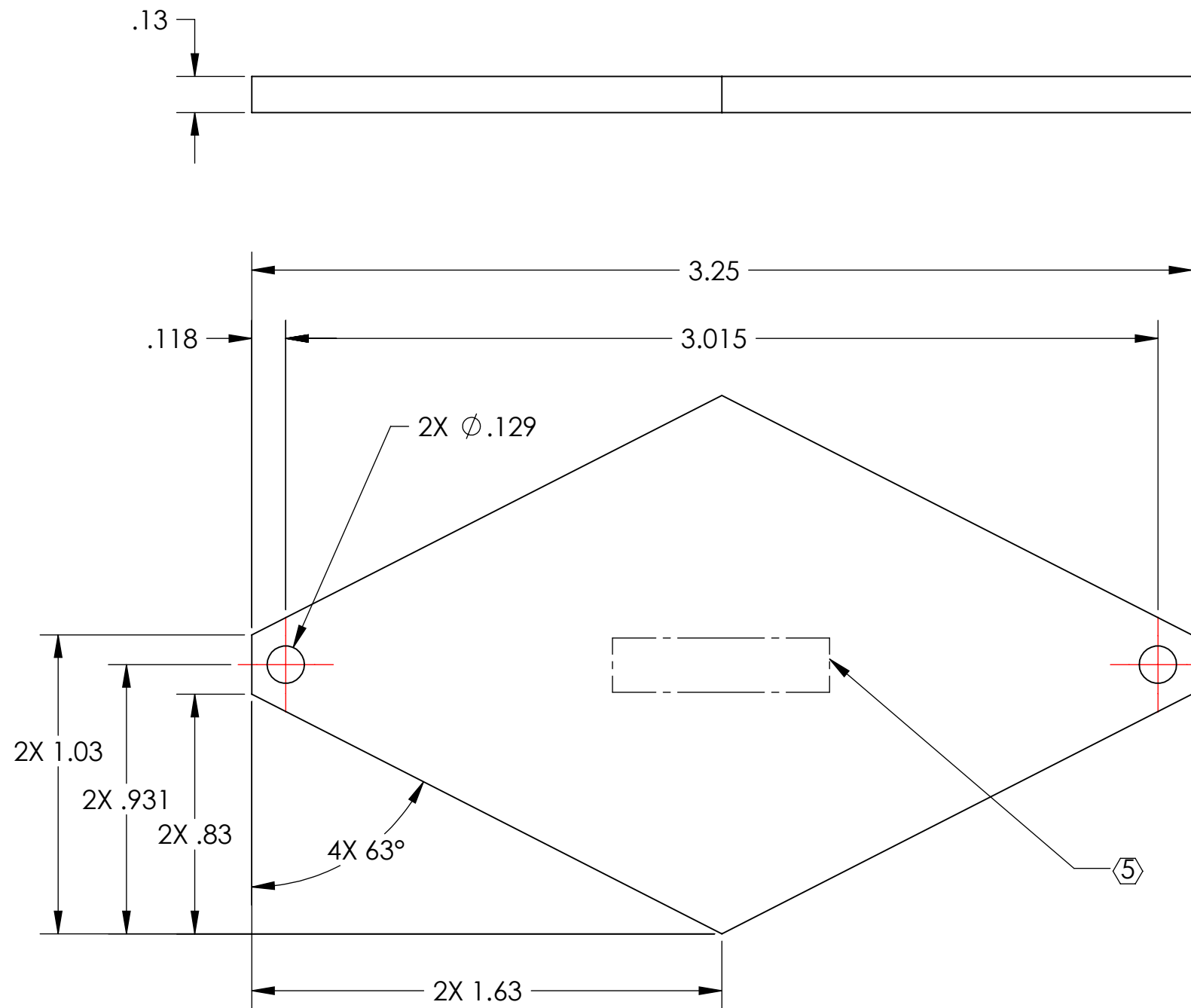
NOTES CONTINUED:
5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. APPROXIMATE WEIGHT = 0.041LB.
7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	8 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-



GENERAL VIEW
FOR REFERENCE ONLY
NO SCALE



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES
 TOLERANCES:
 .XX ± .01
 .XXX ± .005
 ANGULAR ± 0.5°

1. INTERPRET DRAWING PER ASME Y14.5-1994.
 2. REMOVE ALL SHARP EDGES, R.02 MIN.
 3. DO NOT SCALE FROM DRAWING.
 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

MATERIAL: 6061-T6 Al
 FINISH: 63 μ inch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM: ADVANCED LIGO SUB-SYSTEM: AOS
 NEXT ASSY: D0900615-D0900614

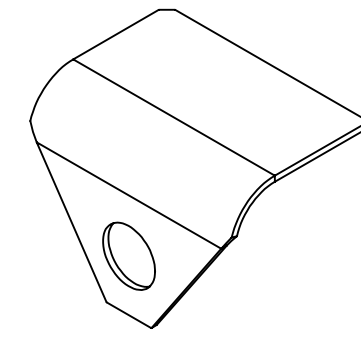
PART NAME		OPTICAL PRISM TOP PLATE	
DESIGNER	TQ. NGUYEN	12 JUL 2010	SIZE DWG. NO.
DRAFTER	TQ. NGUYEN	27 AUG 2010	B
CHECKER	M. SMITH		D0900618
APPROVAL	D. COYNE		REV. v1
SCALE: 2:1		PROJECTION: SHEET 1 OF 1	

D0900619_atLIGO_AOS_D0900614_Faraday Isolator SPRING Clip, PART PDM REV: X-009, DRAWING PDM REV: X-006

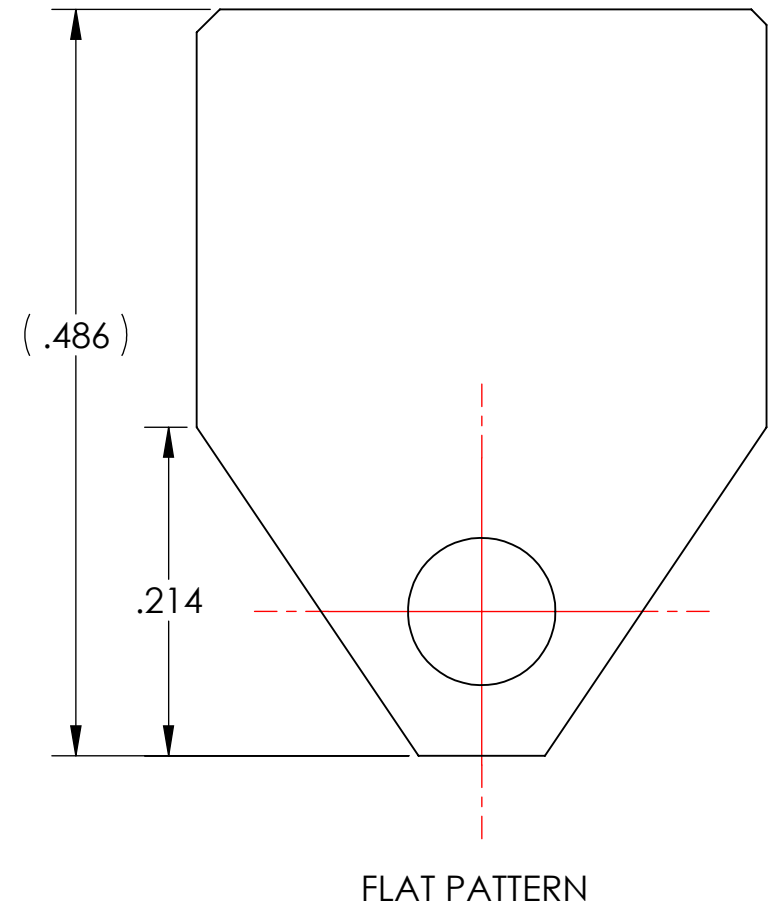
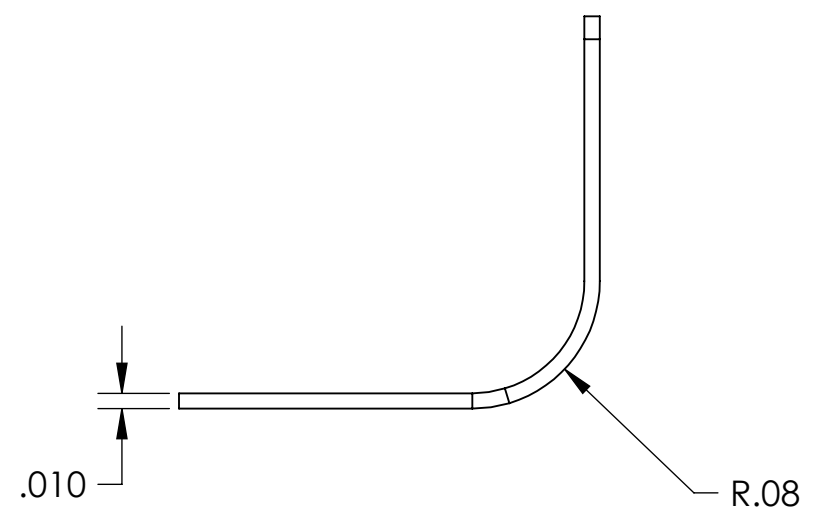
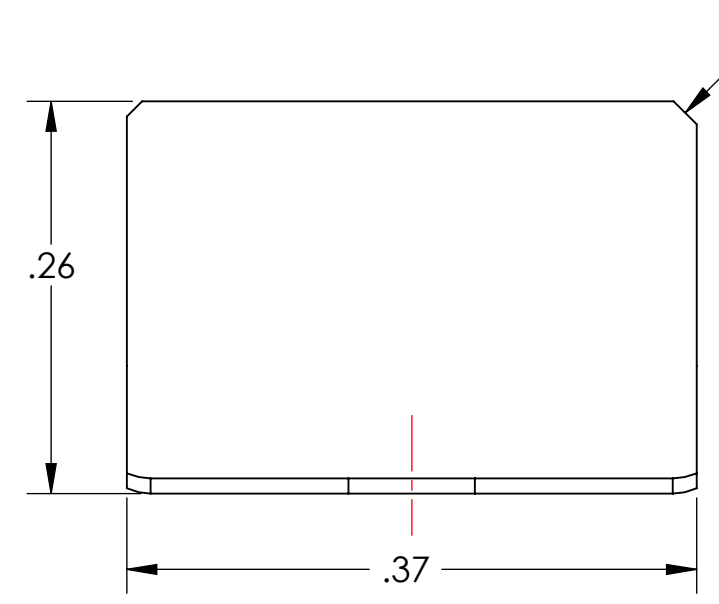
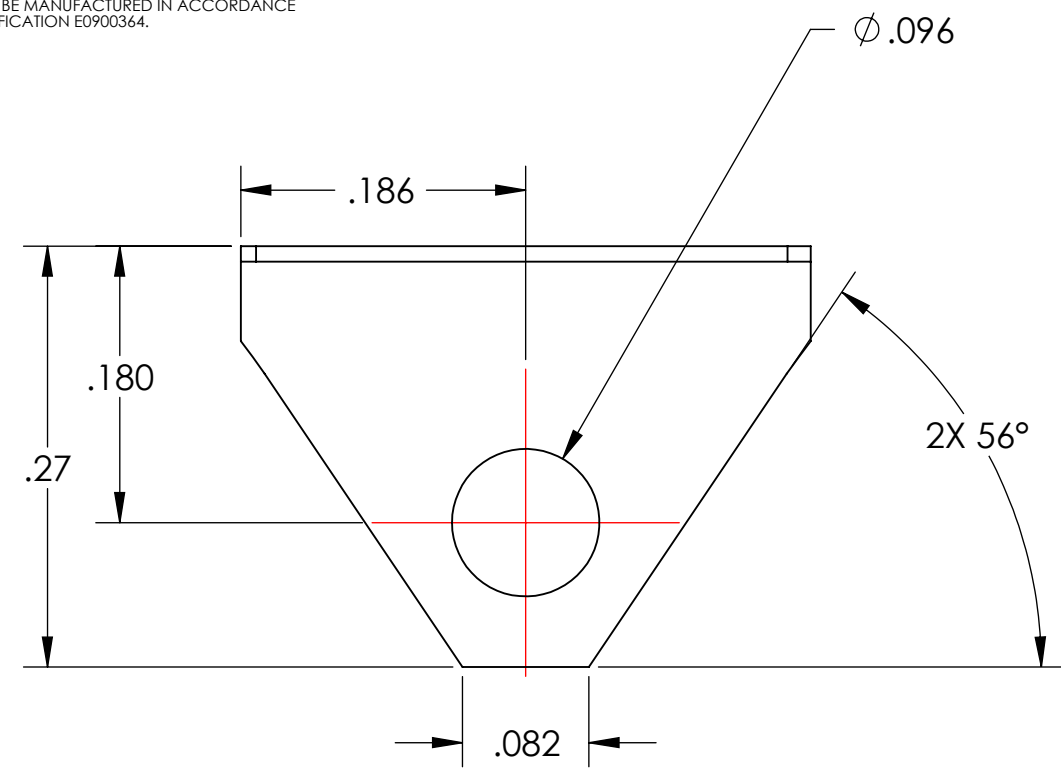
NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO DYES OR INKS) A UNIQUE THREE DIGIT SERIAL NUMBER & REVISION NUMBER ON EACH PART. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. BAG AND TAG PARTS WITH THEIR DRAWING PART NUMBER, REVISION, VARIANT OR "TYPE" (IF APPLICABLE), AND QUANTITY. IF PARTS ARE TOO SMALL TO SCRIBE, BAGGING AND TAGGING ALONE IS SUFFICIENT.
 EXAMPLE (PART): 001-v1
 EXAMPLE (TAG): DXXXXXX-VY, TYPE-XX, QTY: TBD

6. APPROXIMATE WEIGHT = 0.0004 LB.
 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	8 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-



GENERAL VIEW
FOR REFERENCE ONLY
NO SCALE



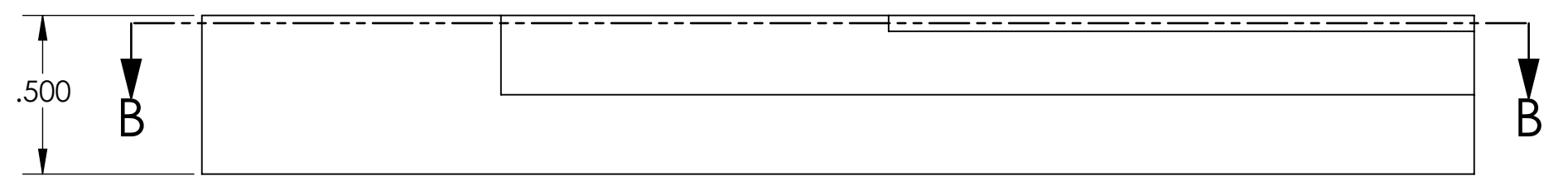
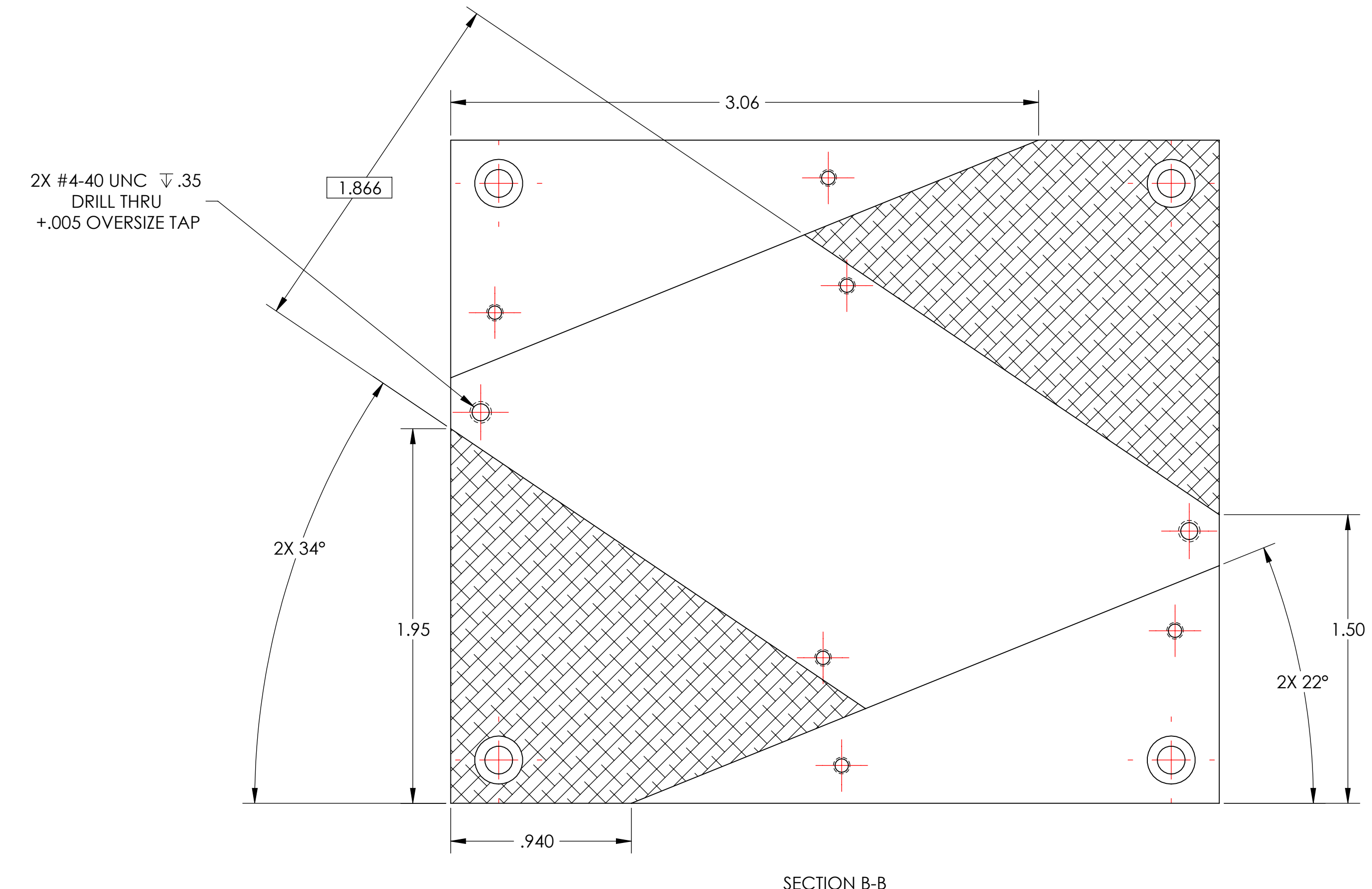
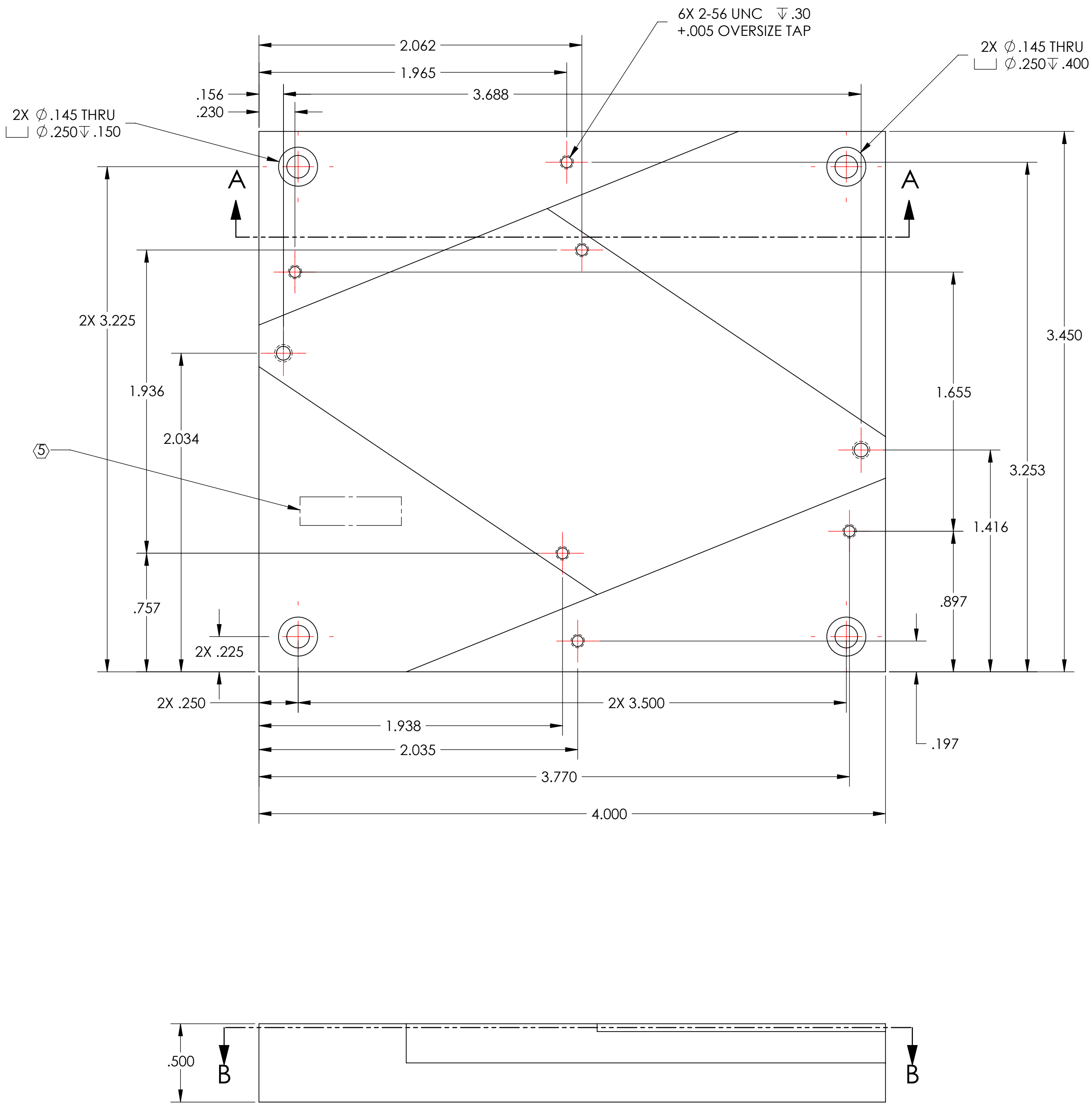
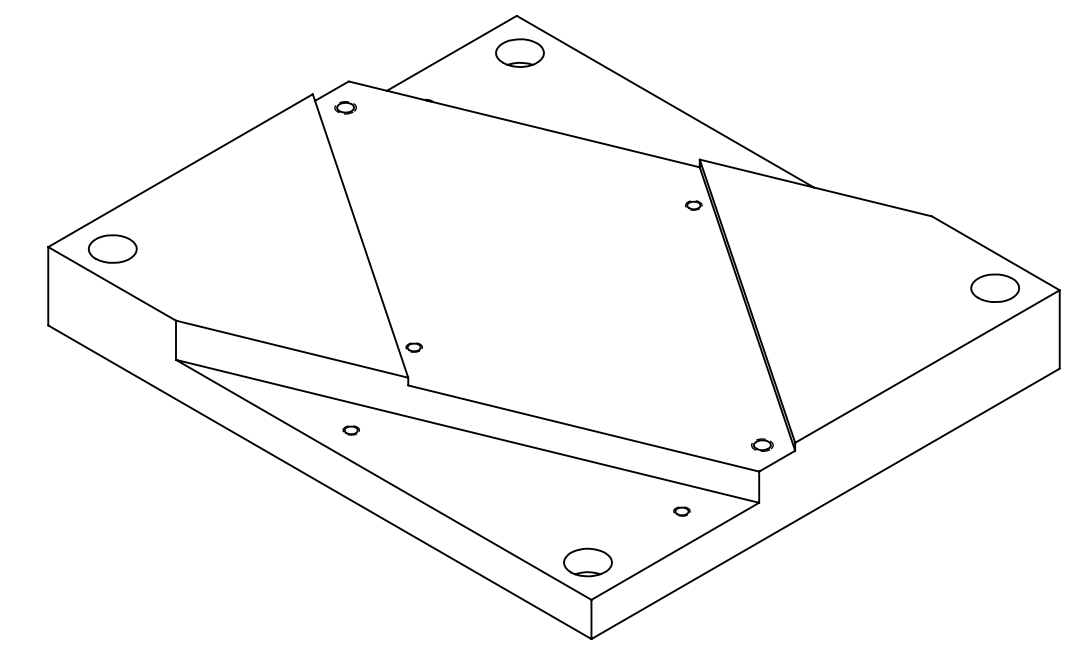
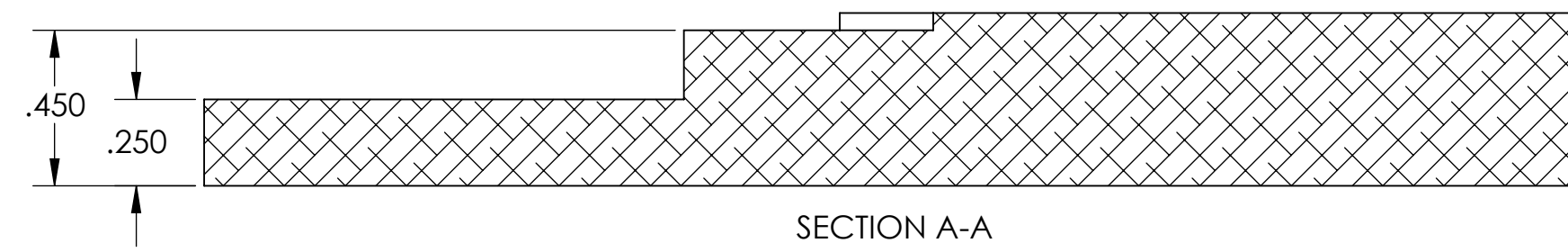
FLAT PATTERN

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .01 .XXX ± .005 ANGULAR ± 0.5°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		CLIP	
						MATERIAL 304 SSSL FINISH 63 μinch	
SYSTEM ADVANCED LIGO SUB-SYSTEM AOS NEXT ASSY D0900614-D0900615				DESIGNER TQ. NGUYEN 12 JUL 2010 DRAFTER TQ. NGUYEN 23 AUG 2010 CHECKER M. SMITH APPROVAL D. COYNE	SIZE DWG. NO. B D0900619 SCALE: 8:1 PROJECTION:	REV. v1 SHEET 1 OF 1	

NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR TYPE IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED. EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. APPROXIMATE WEIGHT = 0.547 LB.
 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	7 OCT 2010	E1000563	E1000474
-	-	-	-



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES				SYSTEM		PRISM MOUNT BASE_RH	
TOLERANCES: .XX ± .01 .XXX ± .005				ADVANCED LIGO		DESIGNER TQ. NGUYEN 16 JUL 2010	
ANGULAR ± 0.5°				SUB-SYSTEM		DRAFTER TQ. NGUYEN 20 AUG 2010	
MATERIAL		FINISH		NEXT ASSY		SIZE DWG. NO.	
6061-T6 Al		63 μinch		D0900615		D D0900620	
				APPROVAL		REV.	
				D. COYNE		v1	
				SCALE: 2:1		PROJECTION:	
						SHEET 1 OF 1	

D0900620.dwg_ACSL D0900615_Paradise Isolator Prism Mount Base_RH_PART PDM REV: X-011_L DRAWING PDM REV: X-011

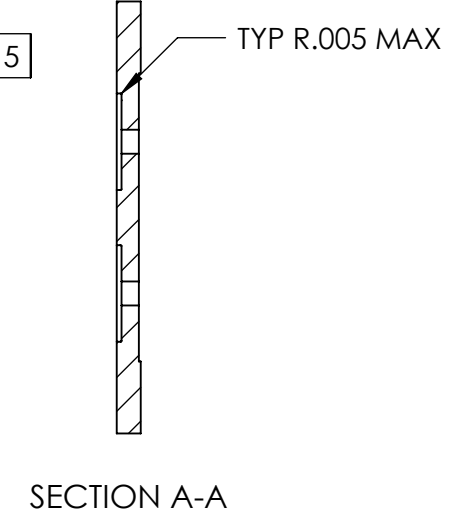
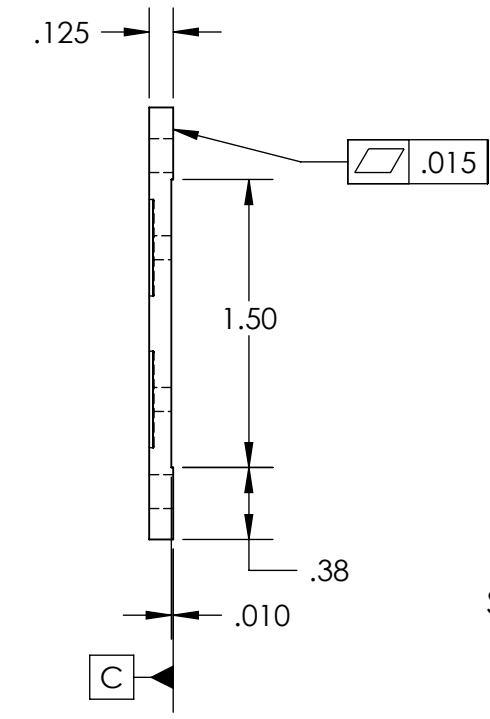
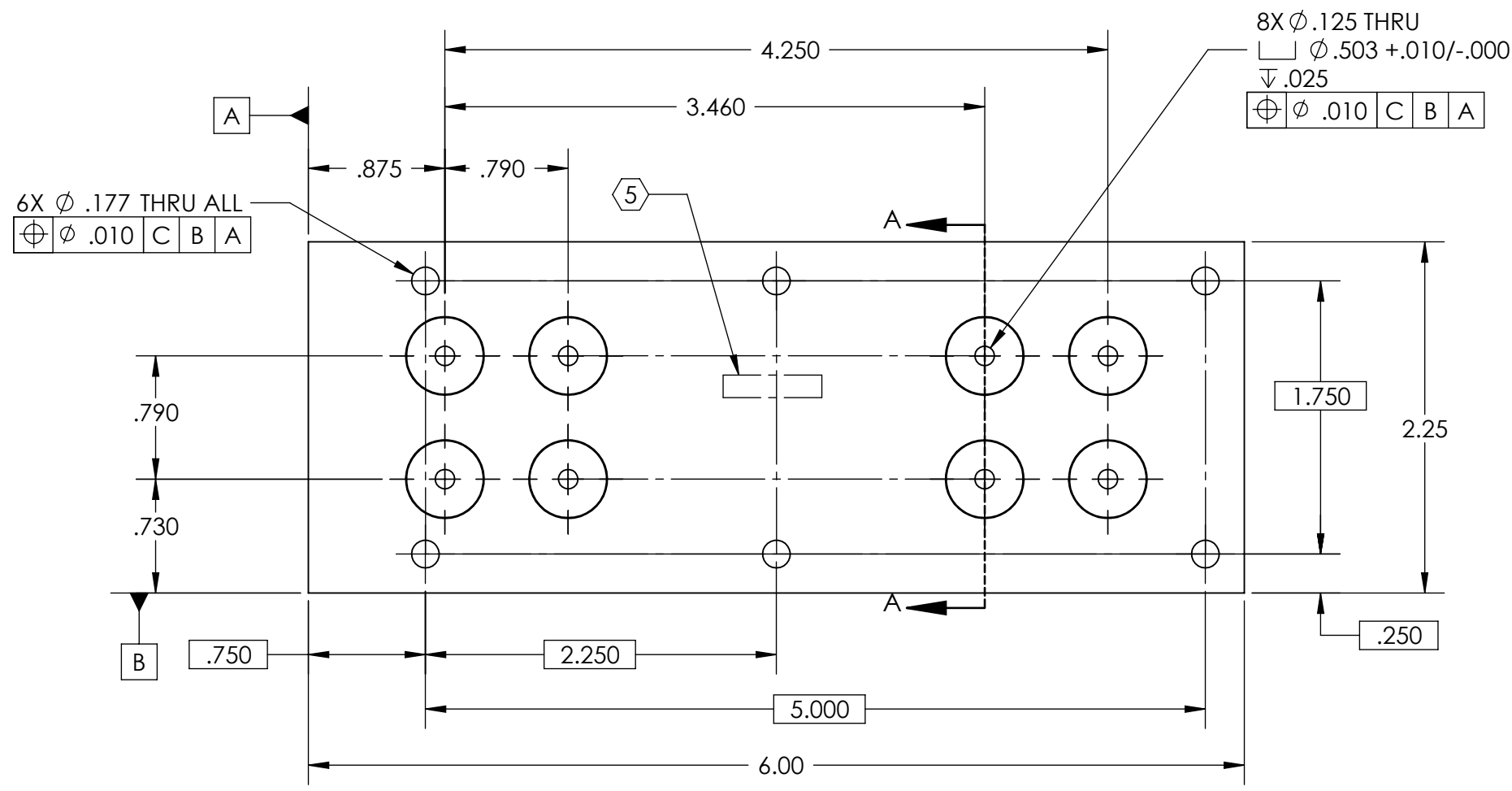
D0900778_AdlIGO_AOS_FID0900048_Magnet Attachment Plate, PART PDM REV: X-020, DRAWING PDM REV: X-013

NOTES CONTINUED:
5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH, USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.

7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	27 APR 2009		
v2	08 OCT 2010	E1000563	



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN
TOLERANCES:
.XX ± .02
.XXX ± .010
ANGULAR ± 0.5°

1. INTERPRET DRAWING PER ASME Y14.5-1994.
2. REMOVE ALL SHARP EDGES, R.02 MIN.
3. DO NOT SCALE FROM DRAWING.
4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

MATERIAL 430F OR 430FR FINISH 63 μinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM ADVANCED LIGO SUB-SYSTEM AOS

NEXT ASSY D0900048

PART NAME
MAGNET ATTACHMENT PLATE

DESIGNER	N.Nguyen	26 Jul 2009
DRAFTER	K. Mailland	28 Jul 2009
CHECKER	C. Torrie	28 Jul 2009
APPROVAL		

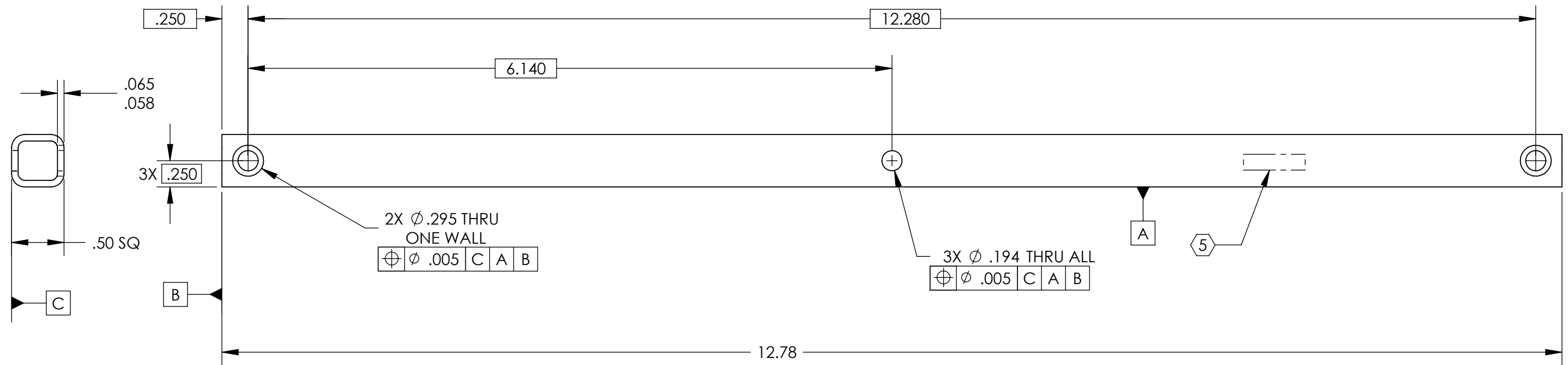
SIZE DWG. NO. **B** **D0900778** REV. **v2**

SCALE: 1:1 PROJECTION: SHEET 1 OF 1

D0901271_AdlIGO_AOS_FID0900579_Blade Guard Crosspiece, PART PDM REV: X-007, DRAWING PDM REV: X-010

- NOTES CONTINUED:**
- 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER AND REVISION ON NOTED SURFACE FOLLOWED ON THE NEXT LINE BY A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE .07" HIGH CHARACTERS. EXAMPLE: DXXXXXX-VY, S/N 001. A VIBRATORY TOOL MAY BE USED.
 - 6. SUGGESTED SOURCE:
AIRCRAFT SPRUCE & SPECIALTY CO.
P/N 03-00008, 6061T6 TUBE 1/2" X 1/2' X .058
AIRCRAFTSPRUCE.COM
 - 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

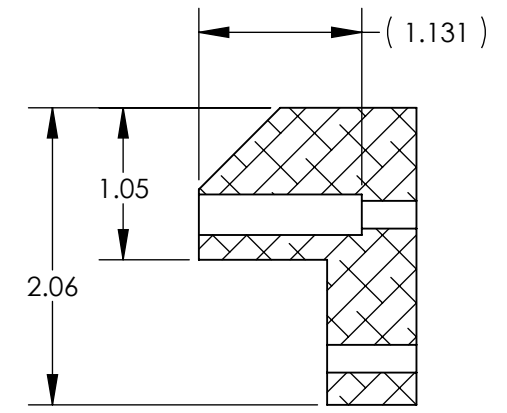
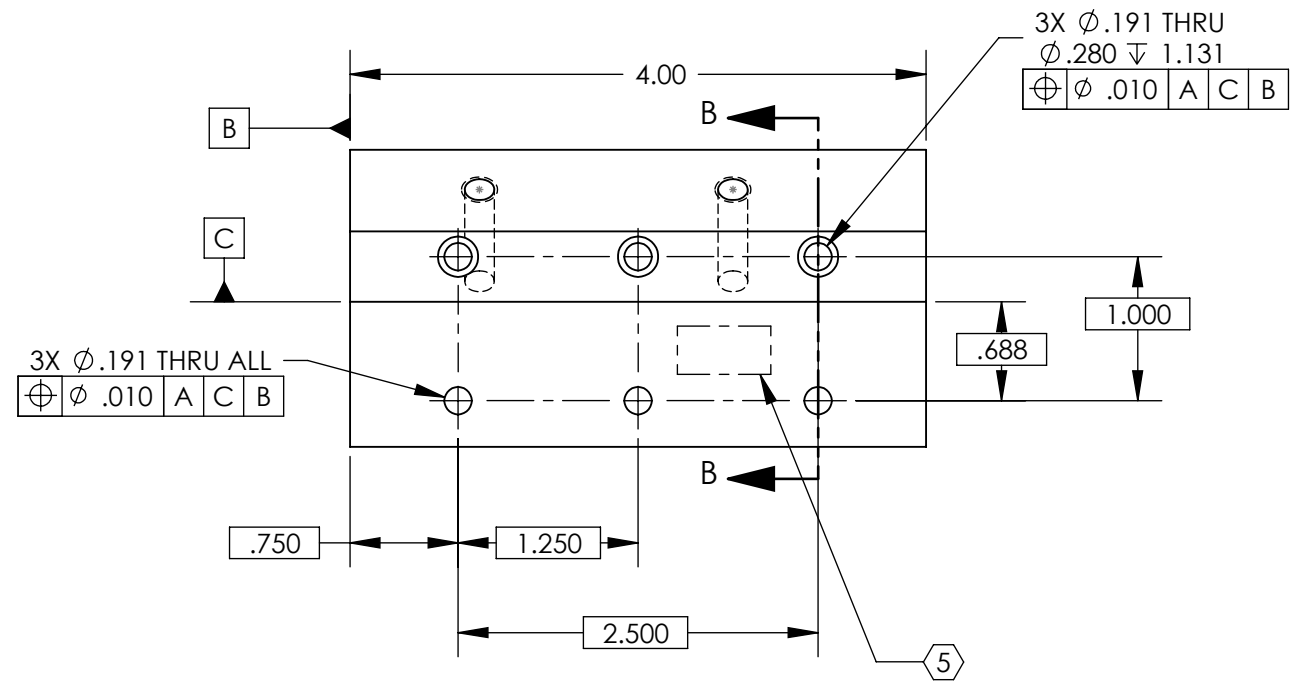
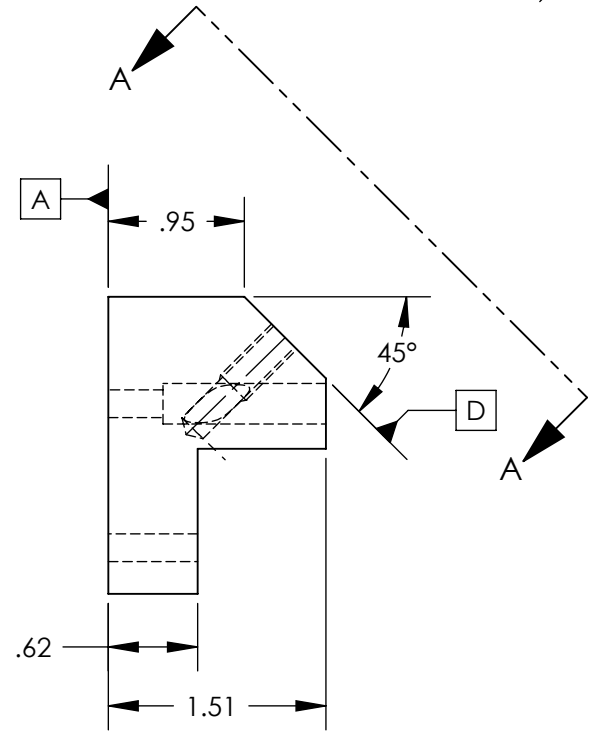
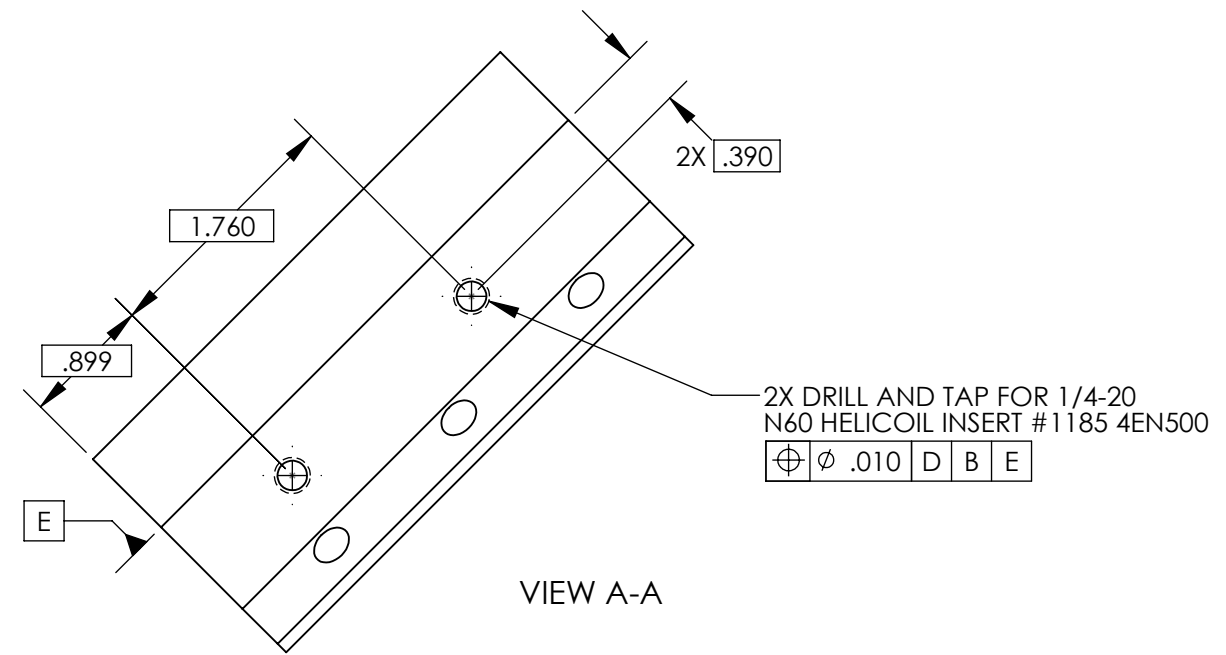
REV.	DATE	DCN #	DRAWING TREE #
v1	21 Jul 2009	E0900209	-
v2	07 OCT 2010	E1000563	-
v3	07 JAN 2011	E1000563	-



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES				ADVANCED LIGO		BLADE GUARD CROSSPIECE	
TOLERANCES: .XX ± .02 .XXX ± .005				SUB-SYSTEM AOS		DESIGNER N.Nguyen 19 Jun 2009	
ANGULAR ± 0.5°				NEXT ASSY D0900579		DRAFTER K. Mailand 21 Jul 2009	
MATERIAL 6061-T6 Al				FINISH stock tubing		CHECKER C. Torrie 22 Jul 2009	
						APPROVAL	
						SIZE DWG. NO. B D0901271	
						REV. v3	
						SCALE: 1:4 PROJECTION: SHEET 1 OF 1	

- NOTES CONTINUED:**
- 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX
 - 6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH, USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 - 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.
 - 8. ALL HELI-COIL HOLES TO BE PREPARED ACCORDING TO EMHART HELI-COIL PRODUCT CATALOG, HC2000, REV 4
 - 9. ALL HELI-COIL INSERTS TO BE INSTALLED BY LIGO PERSONNEL, AFTER DELIVERY OF FINISHED PARTS, USE NITRONIC 60 THREADED INSERTS.

REV.	DATE	DCN #	DRAWING TREE #
v1	07 OCT 2010	E1000563	



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
DIMENSIONS ARE IN	
TOLERANCES: .XX ± .01 .XXX ± .005	
ANGULAR ± 0.5°	
1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.	
MATERIAL	FINISH
6061-T6 Al	63 μinch

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	PART NAME	
	BLADE CLAMP PLATFORM	
SYSTEM	SUB-SYSTEM	DESIGNER
ADVANCED LIGO	AOS	N.Nguyen
NEXT ASSY		DRAFTER
-		M. SMITH
		CHECKER
		APPROVAL

SIZE	DWG. NO.	REV.
B	D0901514	v1
SCALE: 3:4	PROJECTION:	SHEET 1 OF 1

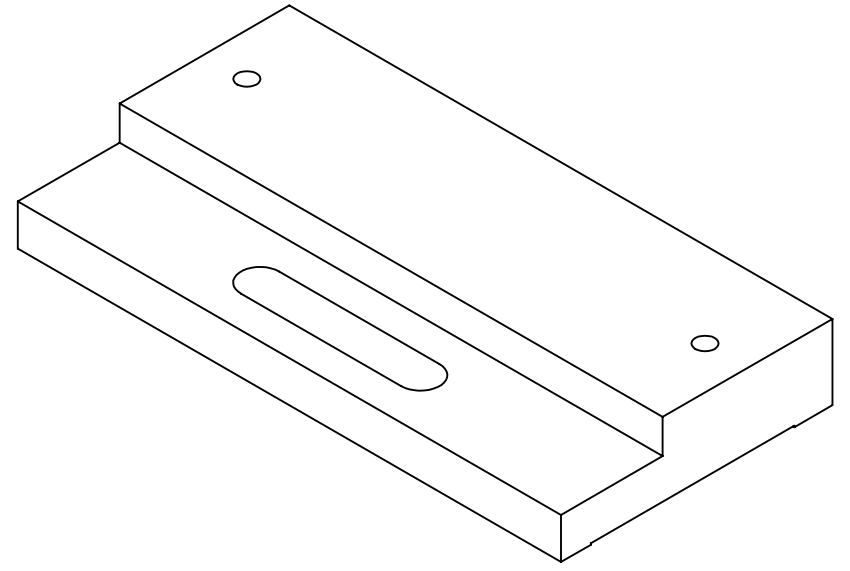
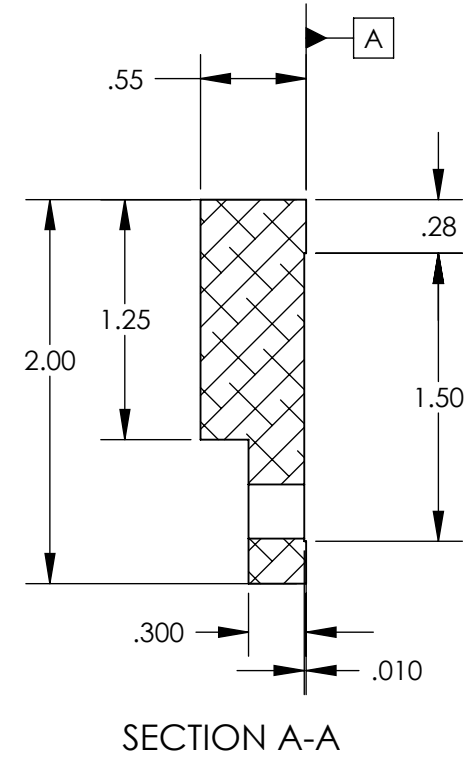
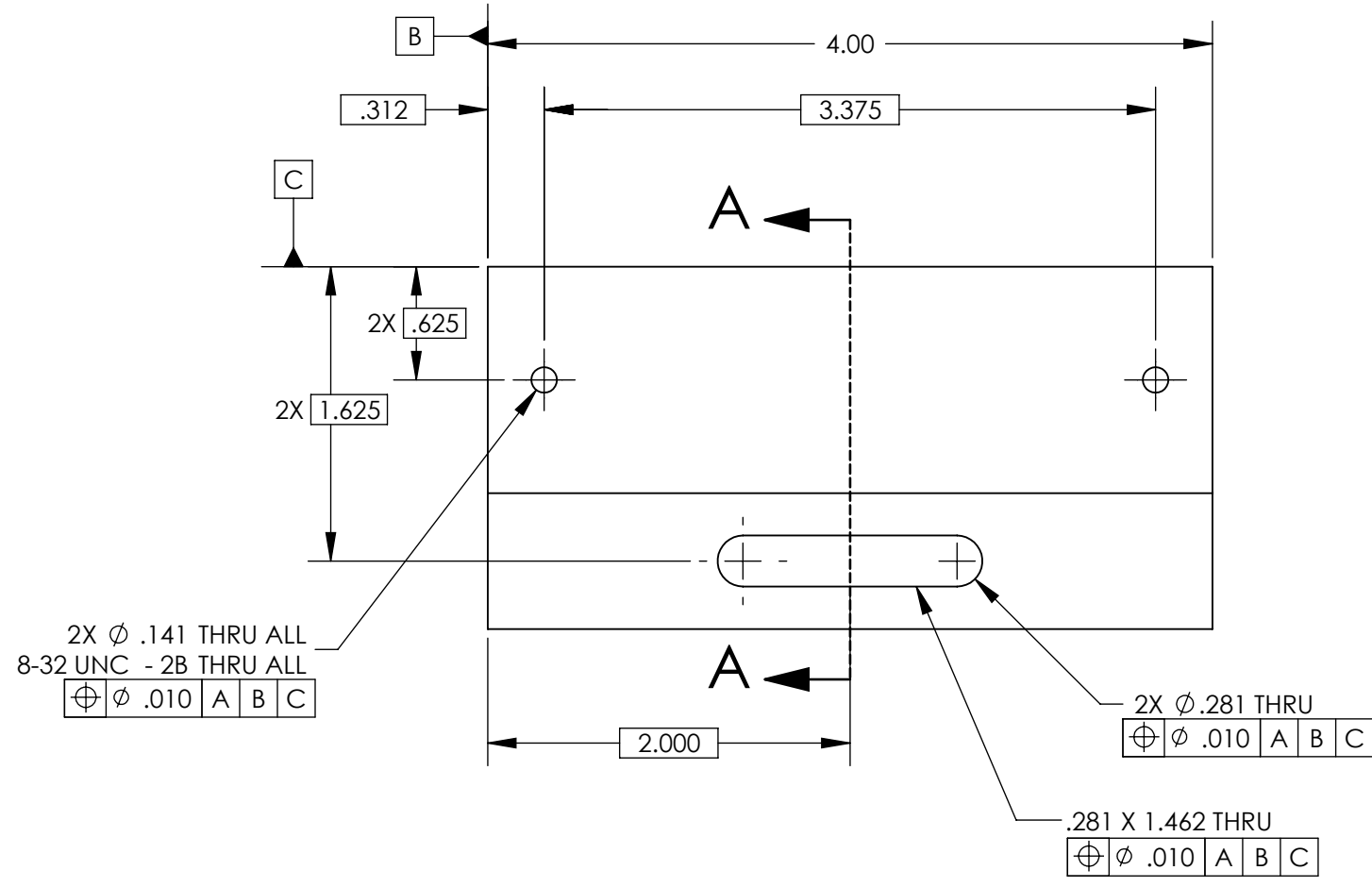
D0901514_Blade Clamp Platform, PART PDM REV: X-000, DRAWING PDM REV: X-000

NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
 EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.

7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	08 OCT 2010	E1000563	



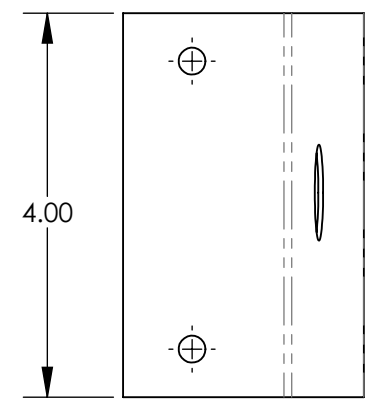
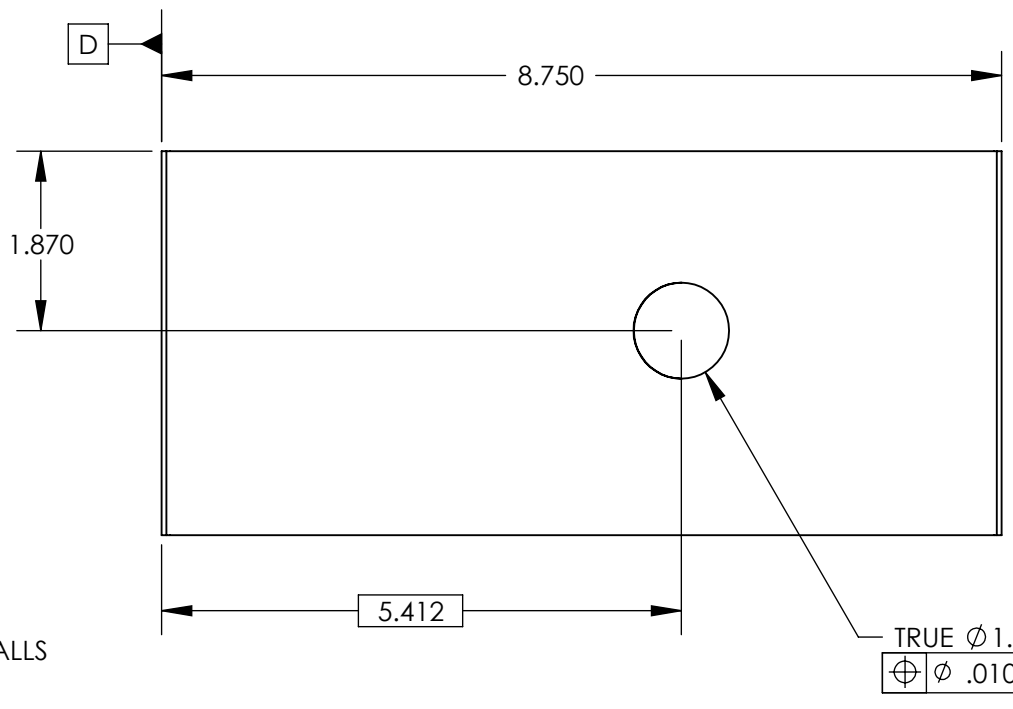
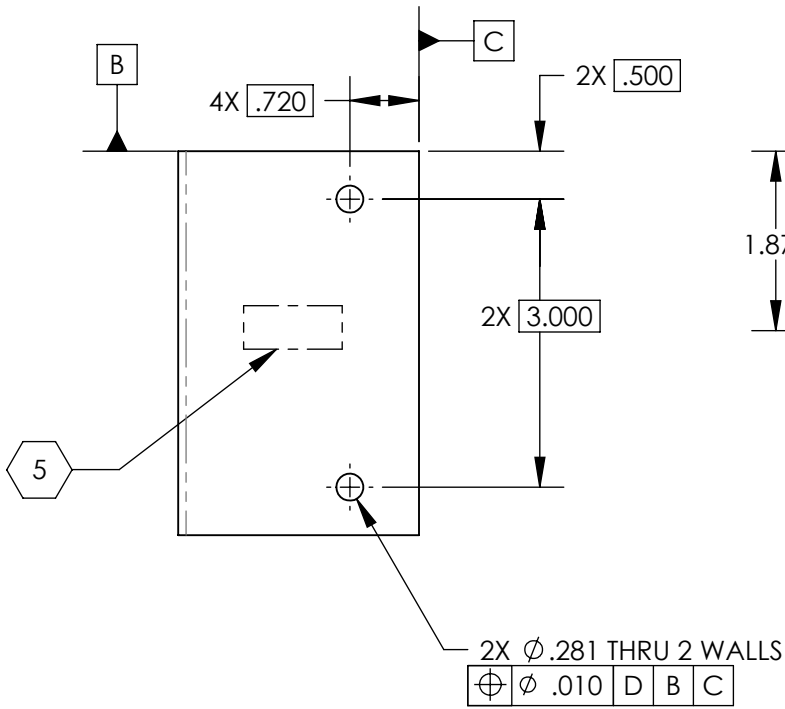
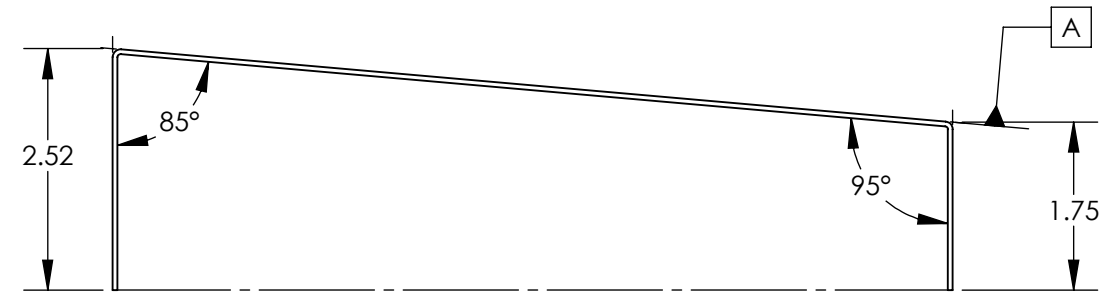
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX \pm .01 .XXX \pm .005 ANGULAR \pm 0.5°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		TABLE BALANCE WEIGHT	
MATERIAL 304, 316 OR 302 SSSL		FINISH 125 μ inch		SYSTEM ADVANCED LIGO		SUB-SYSTEM AOS	
NEXT ASSY D0900623				DESIGNER M.RUIZ		DATE 09 AUG 2010	
				CHECKER		SIZE DWG. NO. B D0901764	
				APPROVAL		REV. v1	
				SCALE: 1:1		PROJECTION:	
				SHEET 1 OF 1			

D0901764_AdlIGO_AOS_FID0900623_Table Balance Weight, PART PDM REV: X-020, DRAWING PDM REV: X-013

8 7 6 5 4 3 2 1

NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
 EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX
 6. PORCELAIN COAT PER SPECIFICATIONS E1000083
 7. MATERIAL: MACHINE FINISH AS RECEIVED

REV.	DATE	DCN #	DRAWING TREE #
v1	09 APR 2009	-	-
v2	07 OCT 2010	E1000563	-
-	-	-	-



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)
 1. INTERPRET DRAWING PER ASME Y14.5-1994.
 2. REMOVE ALL SHARP EDGES, R.02 MIN.
 3. DO NOT SCALE FROM DRAWING.
 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.
 DIMENSIONS ARE IN
 TOLERANCES:
 .XX ± .03
 .XXX ± .010
 ANGULAR ± 1.0°
 MATERIAL A424 TYPE I, 18GA, SSTL
 FINISH SEE NOTE 7

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
SYSTEM ADVANCED LIGO NEXT ASSY D0900136		REFLECTION BAFFLE	
DESIGNER	CHECKER	SIZE	DWG. NO.
MRUIZ		B	D0902845
APPROVAL		SCALE: 1:2	PROJECTION:
			SHEET 1 OF 1

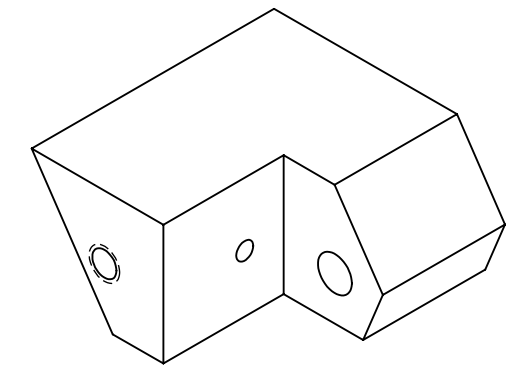
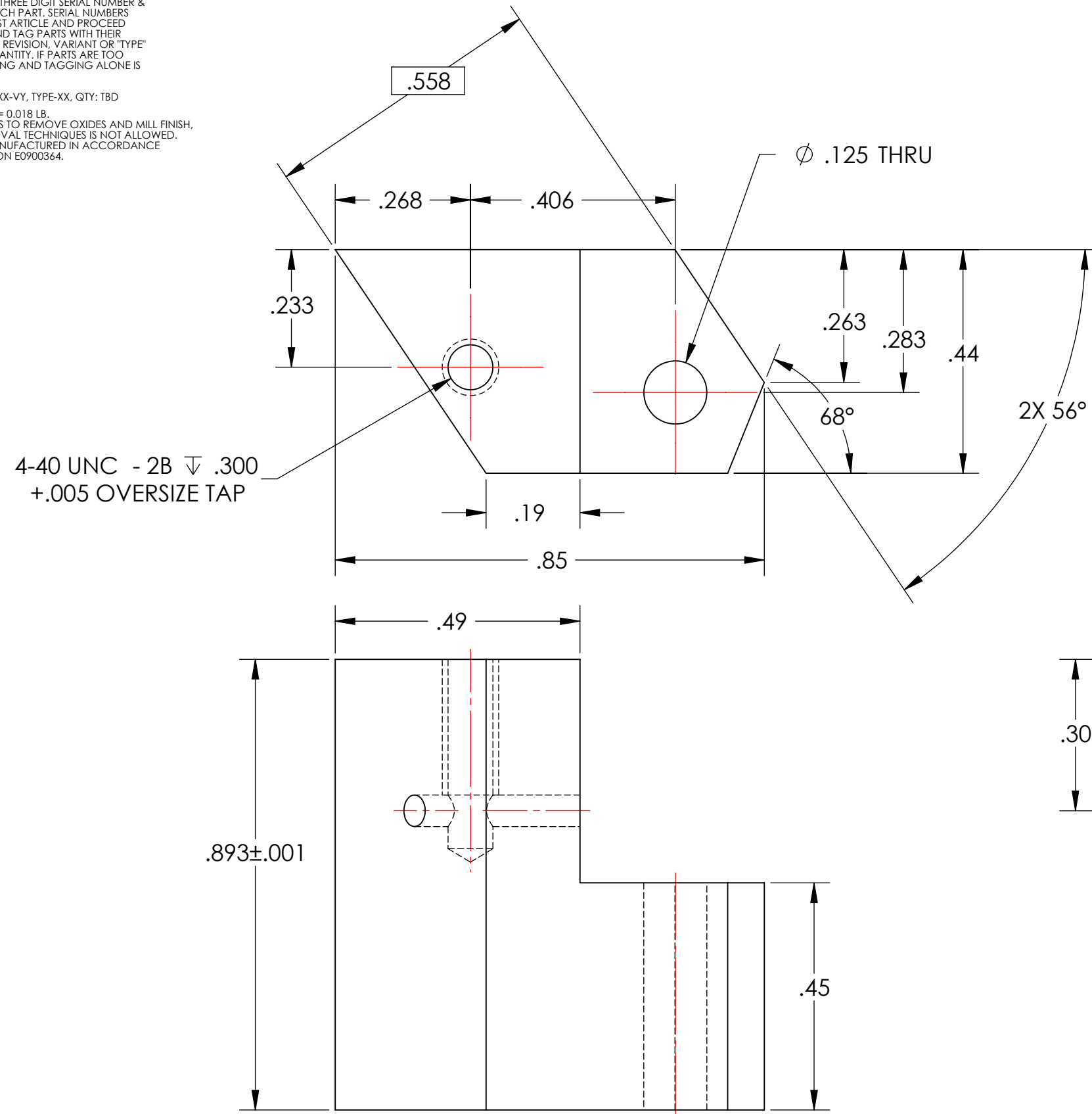
8 7 6 5 4 3 2 1

D0902845_AdlIGO_AOS_FID0900136_Reflection Baffle, PART PDM REV: X-010, DRAWING PDM REV: X-007

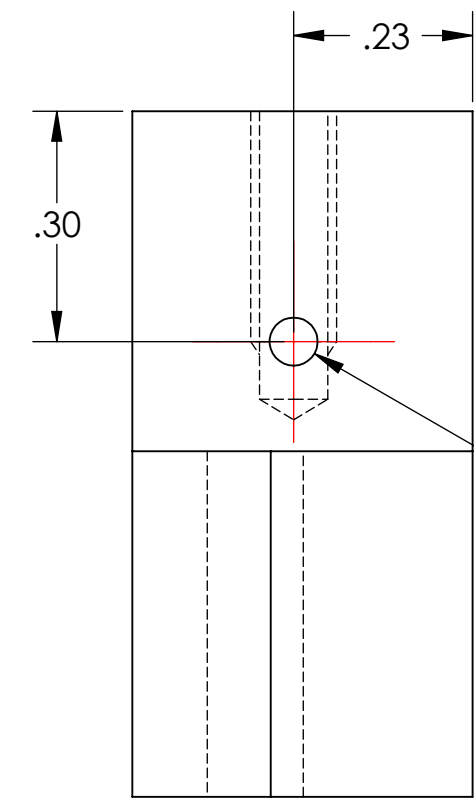
D1001859_alIGO_AOS_D0900615_Faraday Isolator Fixed Stop RH, PART PDM REV: X-006, DRAWING PDM REV: X-007

- NOTES CONTINUED:**
- 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO DYES OR INKS) A UNIQUE THREE DIGIT SERIAL NUMBER & REVISION NUMBER ON EACH PART. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. BAG AND TAG PARTS WITH THEIR DRAWING PART NUMBER, REVISION, VARIANT OR "TYPE" (IF APPLICABLE), AND QUANTITY. IF PARTS ARE TOO SMALL TO SCRIBE, BAGGING AND TAGGING ALONE IS SUFFICIENT.
EXAMPLE (PART): 001-v1
EXAMPLE (TAG): DXXXXXX-VY, TYPE-XX, QTY: TBD
 - 6. APPROXIMATE WEIGHT = 0.018 LB.
 - 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 - 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	7 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-



GENERAL VIEW FOR REFERENCE ONLY NO SCALE

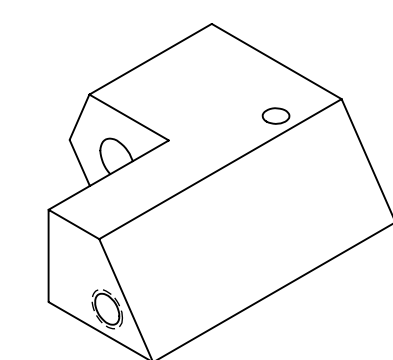
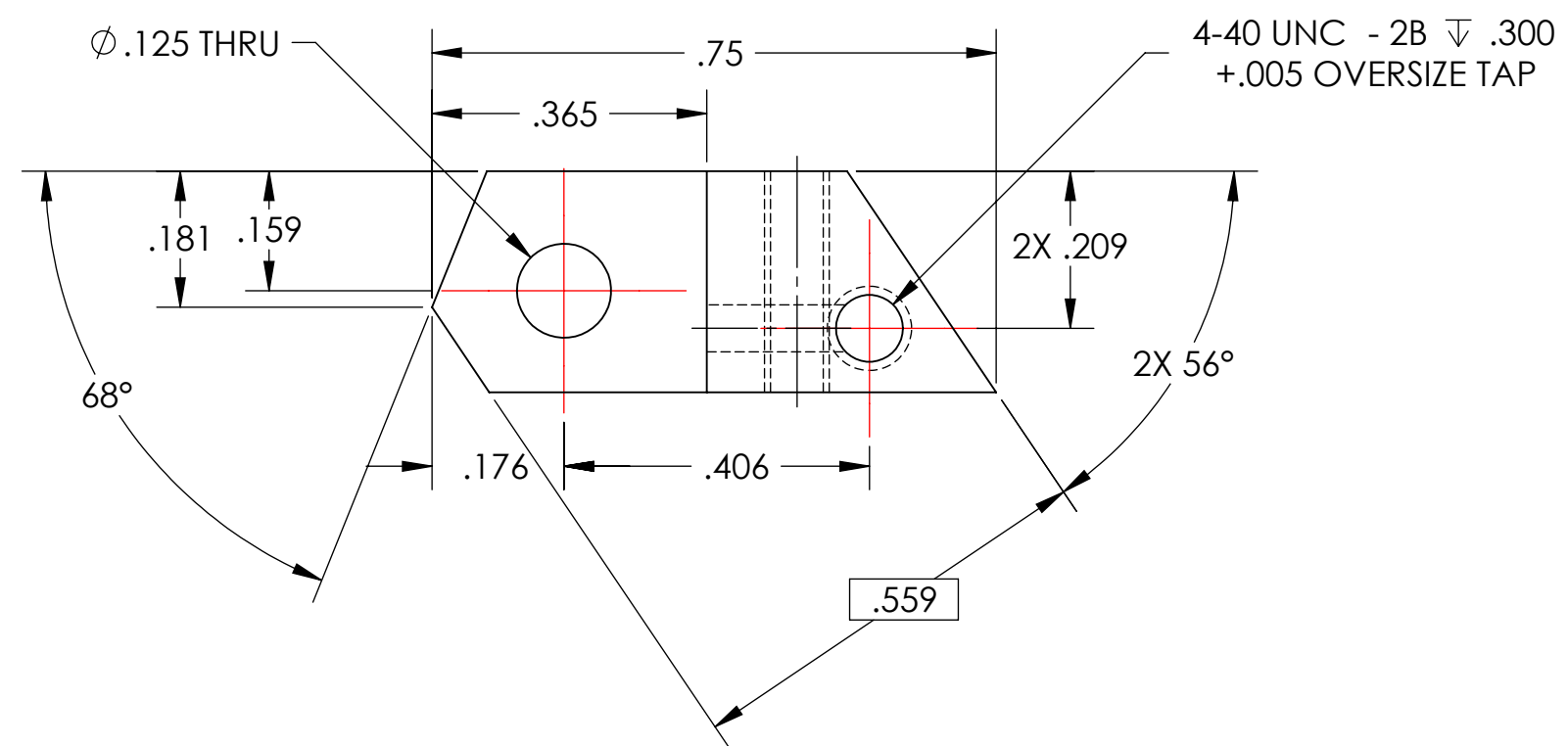


NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .01 .XXX ± .005 ANGULAR ± 0.5°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		FIXED STOP_RH	
MATERIAL 6061-T6 Al		FINISH 63 μinch		SYSTEM ADVANCED LIGO		SUB-SYSTEM AOS	
NEXT ASSY D0900615				DESIGNER TQ. NGUYEN 15 JUL 2010		SIZE DWG. NO. B D1001859	
				DRAFTER TQ. NGUYEN 20 AUG 2010		REV. v1	
				CHECKER M. SMITH		SCALE: 4:1 PROJECTION:	
				APPROVAL D. COYNE		SHEET 1 OF 1	

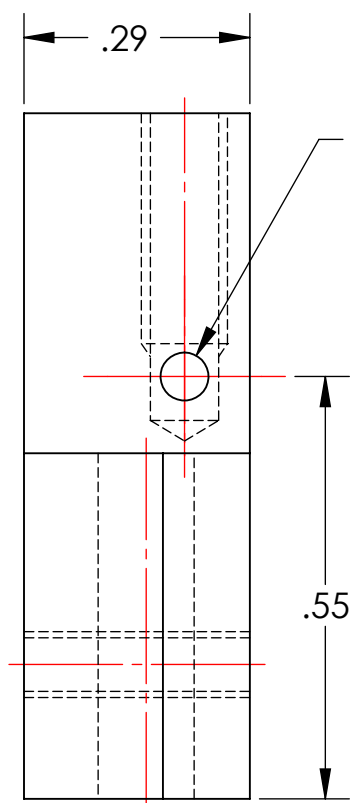
D1001860_alIGO_AOS_D0900615_Faraday Isolator Spring Block RH, PART PDM REV: X-011, DRAWING PDM REV: X-005

NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO DYES OR INKS) A UNIQUE THREE DIGIT SERIAL NUMBER & REVISION NUMBER ON EACH PART. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. BAG AND TAG PARTS WITH THEIR DRAWING PART NUMBER, REVISION, VARIANT OR "TYPE" (IF APPLICABLE), AND QUANTITY. IF PARTS ARE TOO SMALL TO SCRIBE, BAGGING AND TAGGING ALONE IS SUFFICIENT.
 EXAMPLE (PART): 001-v1
 EXAMPLE (TAG): DXXXXXX-VY, TYPE-XX, QTY: TBD
 6. APPROXIMATE WEIGHT = 0.011 LB.
 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	8 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-

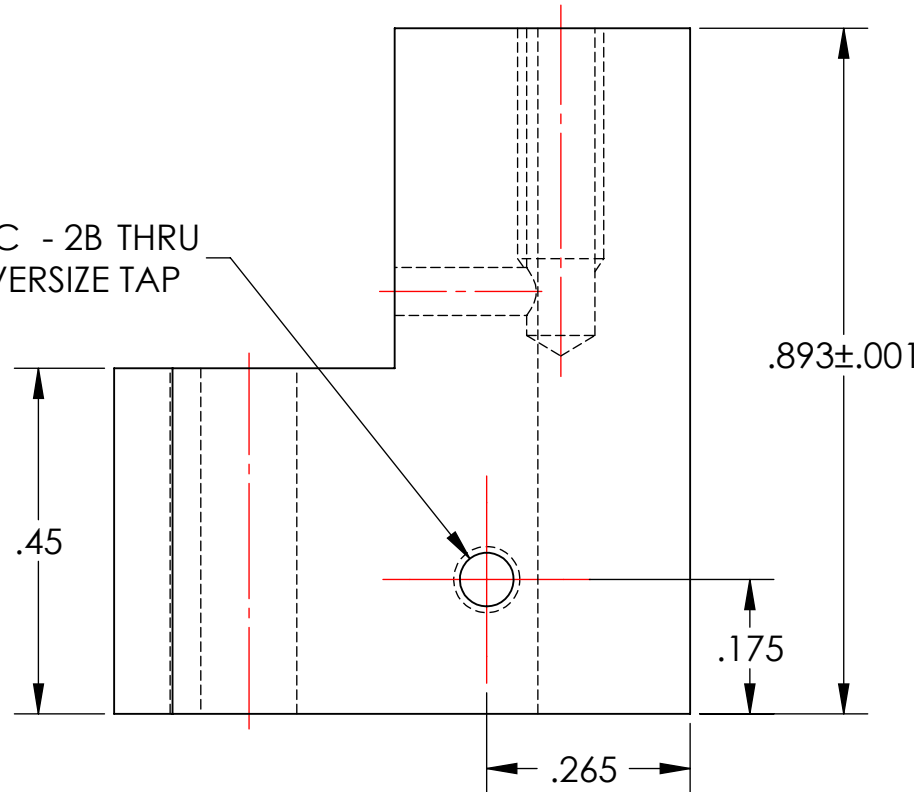


GENERAL VIEW
FOR REFERENCE ONLY
NO SCALE



ϕ .06
VENT HOLE THRU TAP HOLE

2-56 UNC - 2B THRU
+.005 OVERSIZE TAP



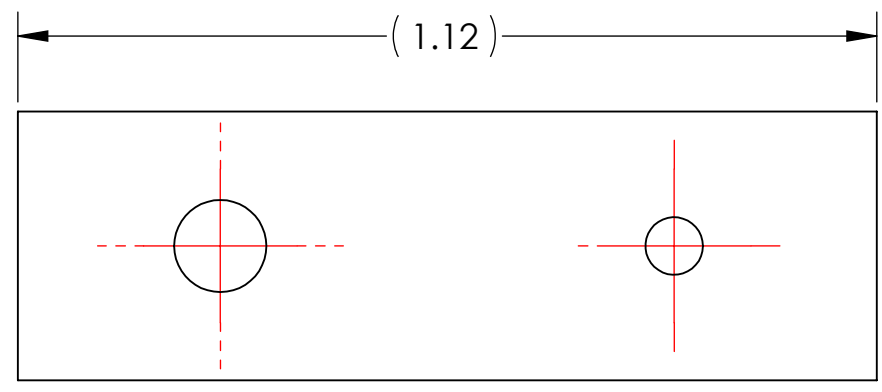
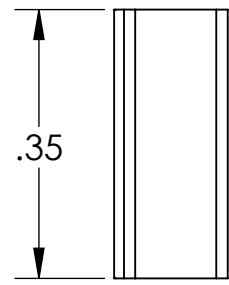
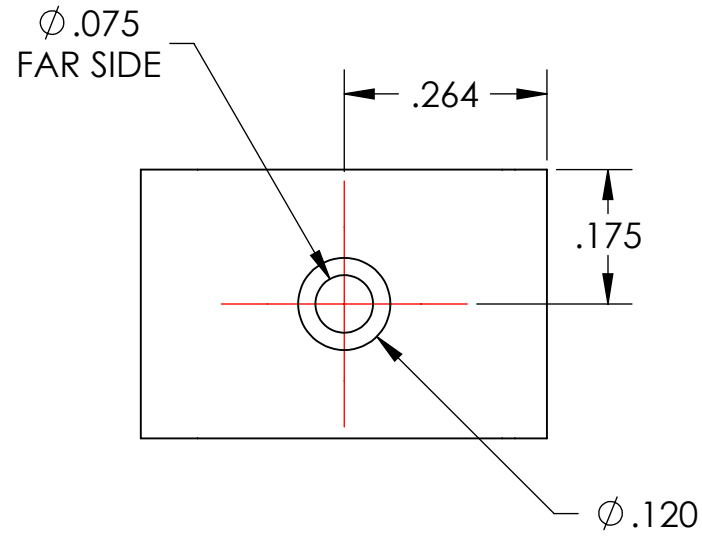
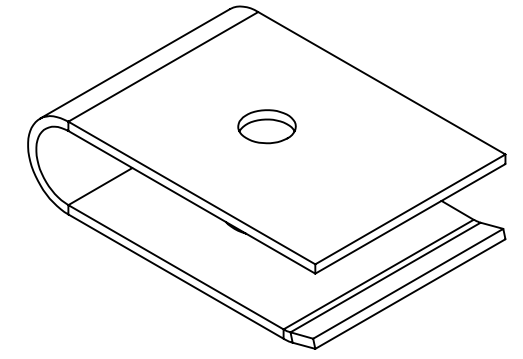
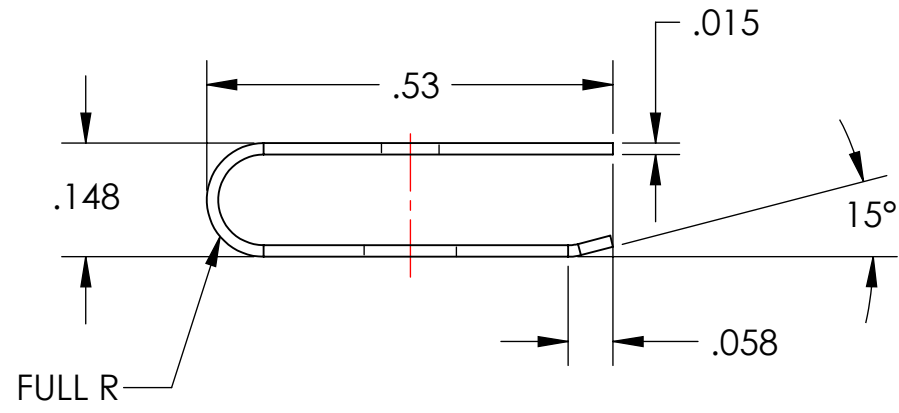
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES				ADVANCED LIGO		SUB-SYSTEM		SPRING BLOCK_RH	
TOLERANCES: .XX ± .01 .XXX ± .005				NEXT ASSY		AOS		DESIGNER	
ANGULAR ± 0.5°				MATERIAL		6061-T6 Al		FINISH	
1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.				63 μinch		D0900615		DRAFTER	
								CHECKER	
								APPROVAL	
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								DESIGNER	
								DRAFTER	

D1001861_calIGO_AOS_D0900614_Faraday Isolator U-Spring, PART PDM REV: X-004, DRAWING PDM REV: X-003

NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO DYES OR INKS) A UNIQUE THREE DIGIT SERIAL NUMBER & REVISION NUMBER ON EACH PART. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. BAG AND TAG PARTS WITH THEIR DRAWING PART NUMBER, REVISION, VARIANT OR "TYPE" (IF APPLICABLE), AND QUANTITY. IF PARTS ARE TOO SMALL TO SCRIBE, BAGGING AND TAGGING ALONE IS SUFFICIENT.
 EXAMPLE (PART): 001-v1
 EXAMPLE (TAG): DXXXXXX-VY, TYPE-XX, QTY: TBD

6. APPROXIMATE WEIGHT = 0.002 LB.
 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	8 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-



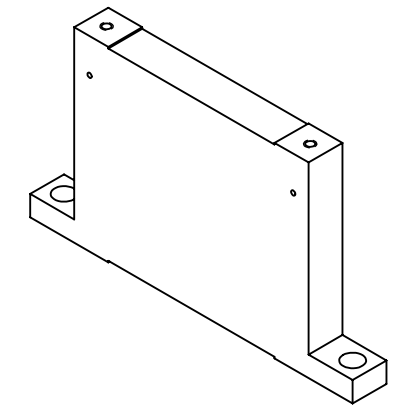
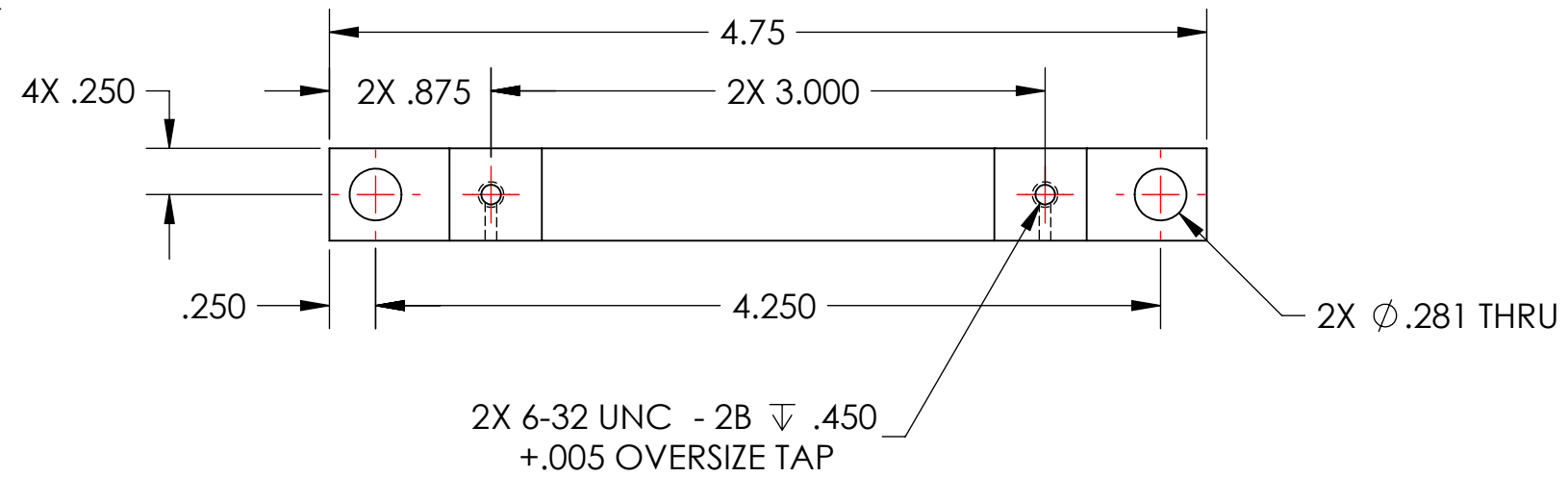
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .01 .XXX ± .005 ANGULAR ± 0.5°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		U-SPRING	
MATERIAL 304 SSSL		FINISH 63 μinch		SYSTEM ADVANCED LIGO SUB-SYSTEM AOS		DESIGNER TQ. NGUYEN 15 JUL 2010	
NEXT ASSY D0900614_D0900615		DRAFTER TQ. NGUYEN 23 AUG 2010		CHECKER M. SMITH		SIZE DWG. NO. B D1001861	
				APPROVAL D. COYNE		REV. v1	
				SCALE: 4:1		PROJECTION:	
						SHEET 1 OF 1	

D1001862_alIGO_AOS_D0900614_Faraday Isolator Base Mount Foot, PART PDM REV: X-009, DRAWING PDM REV: X-003

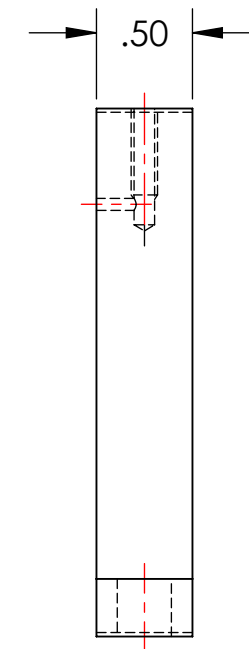
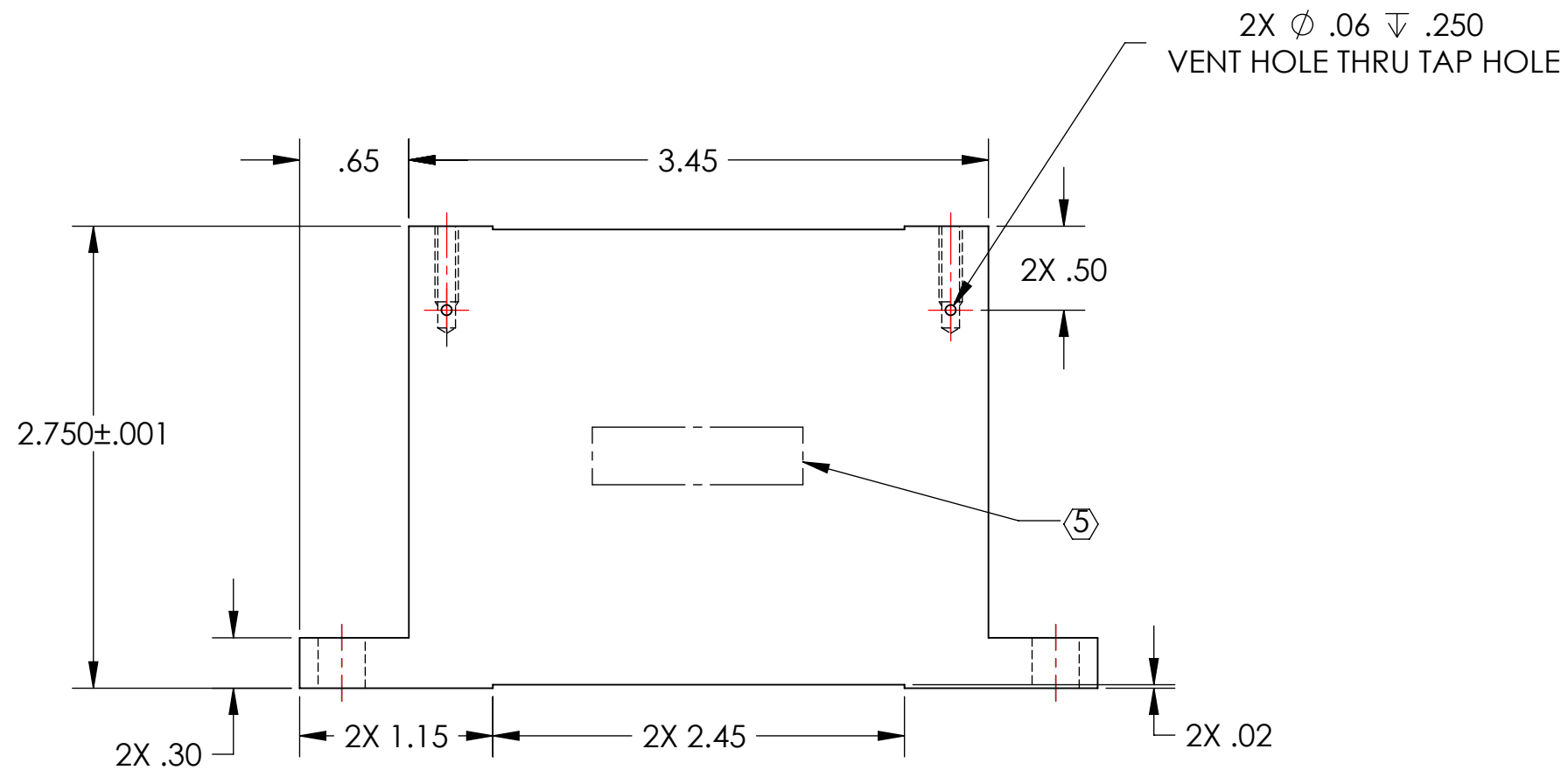
NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
 EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. APPROXIMATE WEIGHT = 0.472 LB.
 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	8 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-



GENERAL VIEW FOR REFERENCE ONLY NO SCALE



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES
 TOLERANCES:
 .XX ± .01
 .XXX ± .005
 ANGULAR ± 0.5°

1. INTERPRET DRAWING PER ASME Y14.5-1994.
 2. REMOVE ALL SHARP EDGES, R.02 MIN.
 3. DO NOT SCALE FROM DRAWING.
 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

MATERIAL 6061-T6 Al FINISH 63 μinch

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 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM ADVANCED LIGO SUB-SYSTEM AOS
 NEXT ASSY D0900615-D0900614

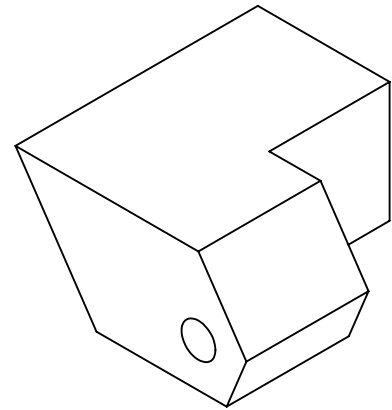
PART NAME		PRISM BASE SUPPORT	
DESIGNER	TQ. NGUYEN	19 JUL 2010	SIZE DWG. NO.
DRAFTER	TQ. NGUYEN	23 AUG 2010	B
CHECKER	M. SMITH		D1001862
APPROVAL	D. COYNE		REV. v1
SCALE: 1:1		PROJECTION:	SHEET 1 OF 1

D1001870_alIGO_AOS_D0900614_Faraday Isolator Fixed Stop LH, PART PDM REV: X-004, DRAWING PDM REV: X-005

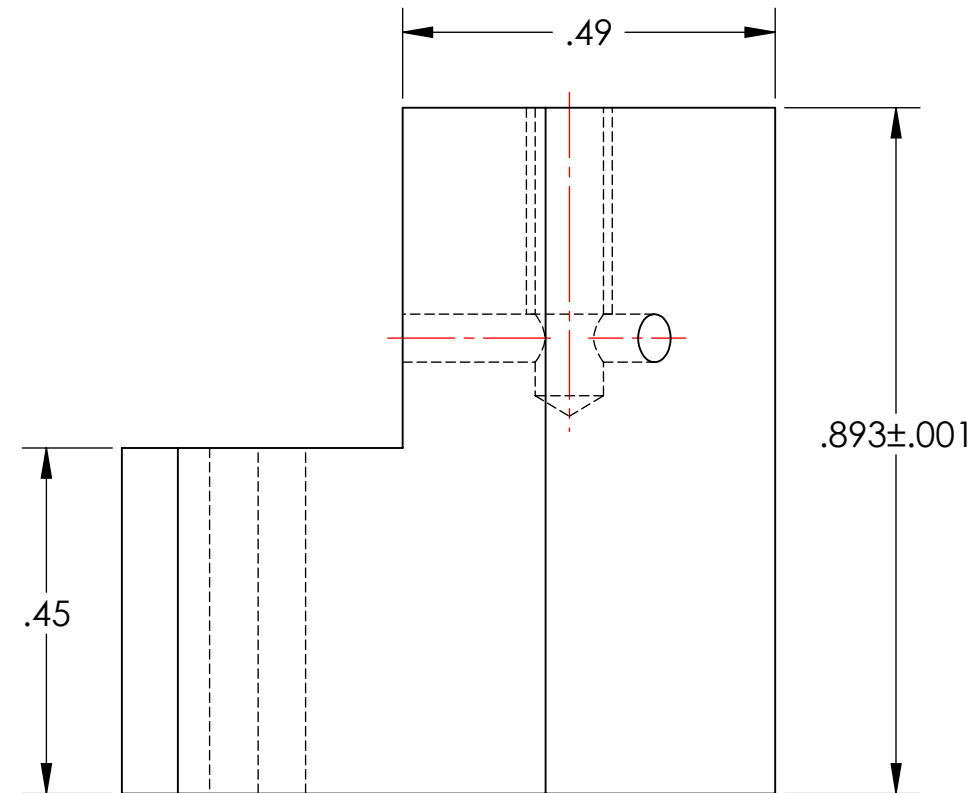
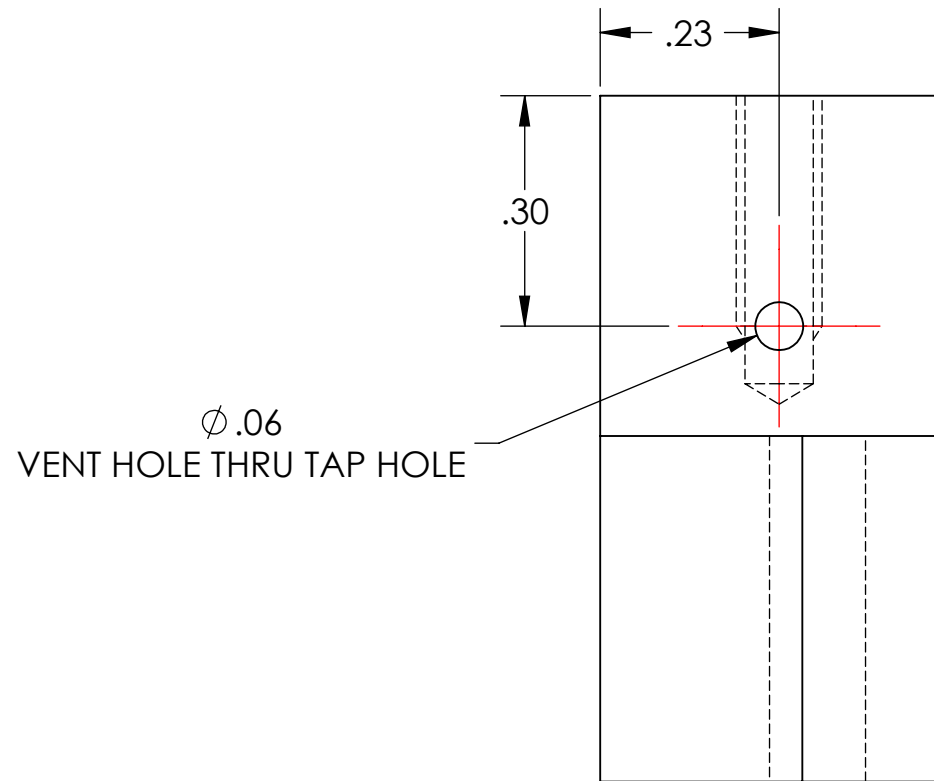
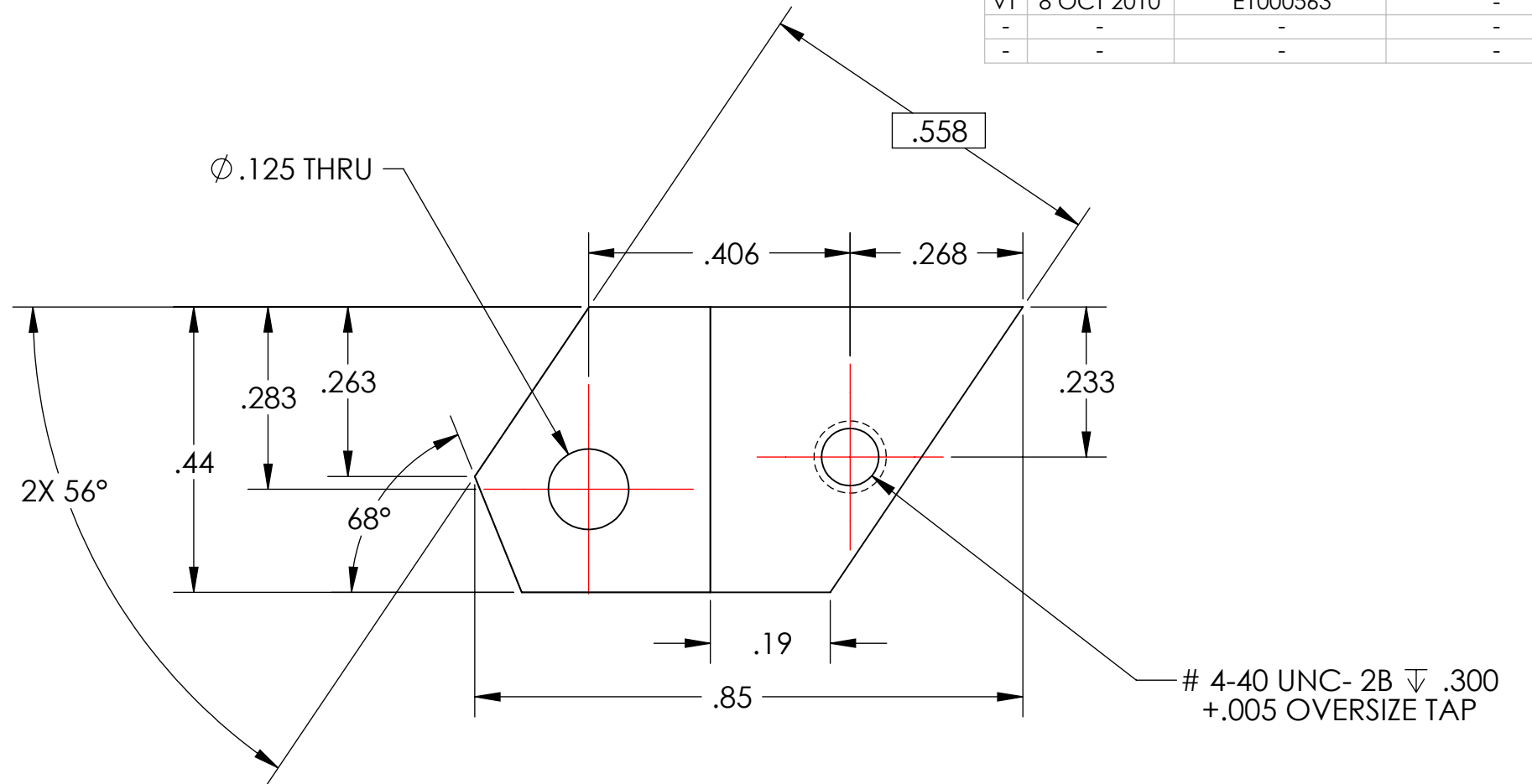
NOTES CONTINUED:
5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO DYES OR INKS) A UNIQUE THREE DIGIT SERIAL NUMBER & REVISION NUMBER ON EACH PART. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. BAG AND TAG PARTS WITH THEIR DRAWING PART NUMBER, REVISION, VARIANT OR "TYPE" (IF APPLICABLE), AND QUANTITY. IF PARTS ARE TOO SMALL TO SCRIBE, BAGGING AND TAGGING ALONE IS SUFFICIENT.
EXAMPLE (PART): 001-v1
EXAMPLE (TAG): DXXXXXX-VY, TYPE-XX, QTY: TBD

6. APPROXIMATE WEIGHT = 0.018 LB.
7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	8 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-



GENERAL VIEW FOR REFERENCE ONLY NO SCALE



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

1. INTERPRET DRAWING PER ASME Y14.5-1994.
2. REMOVE ALL SHARP EDGES, R.02 MIN.
3. DO NOT SCALE FROM DRAWING.
4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

DIMENSIONS ARE IN INCHES

TOLERANCES:
.XX ± .01
.XXX ± .005

ANGULAR ± 0.5°

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MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM: ADVANCED LIGO
SUB-SYSTEM: AOS
NEXT ASSY: D0900614

PART NAME: FIXED STOP_LH

DESIGNER	TQ. NGUYEN	15 JUL 2010	SIZE	DWG. NO.	REV.
DRAFTER	TQ. NGUYEN	27 AUG 2010	B	D1001870	v1
CHECKER	M. SMITH		SCALE:	4:1	PROJECTION:
APPROVAL	D. COYNE				SHEET 1 OF 1

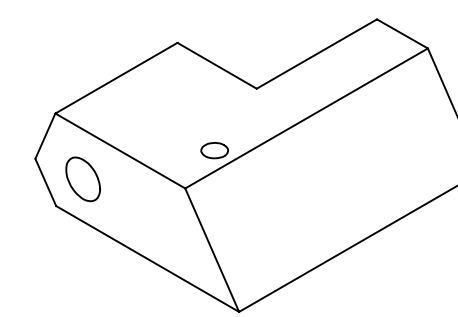
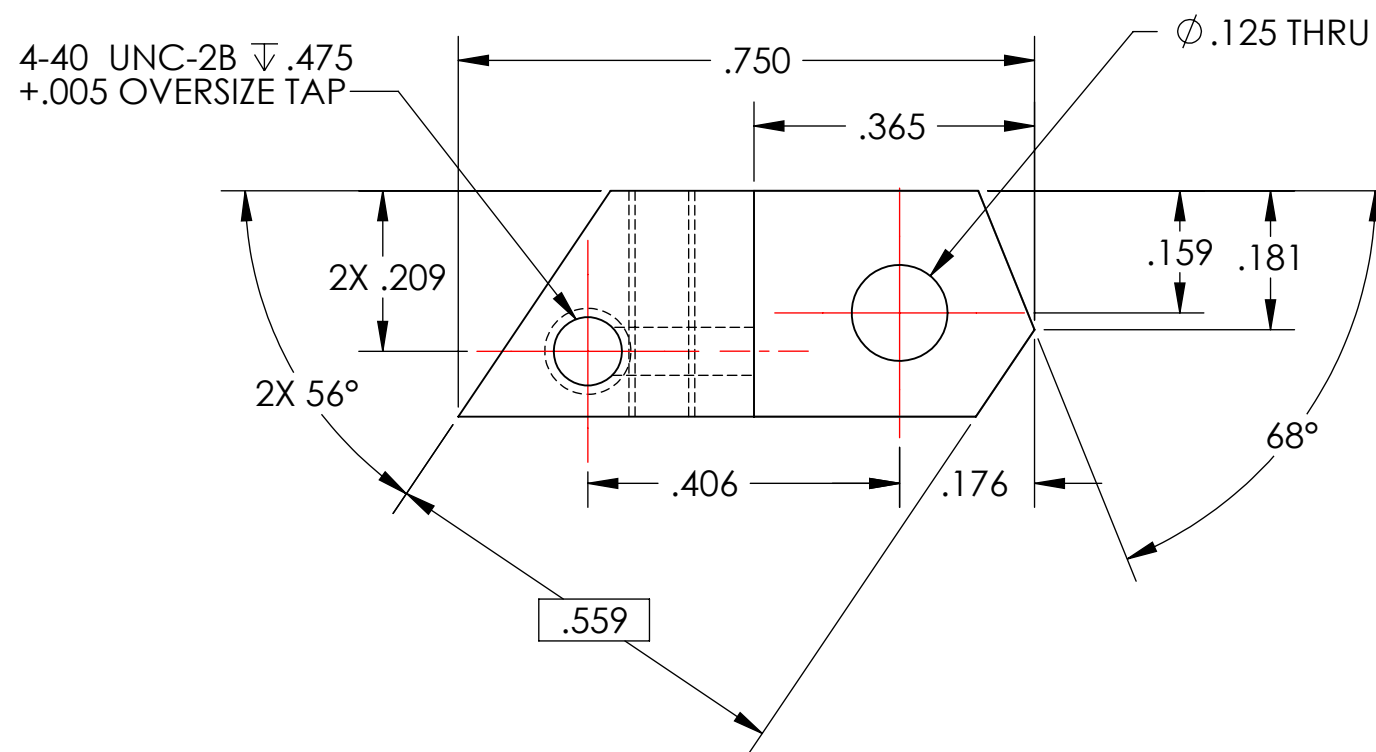
8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

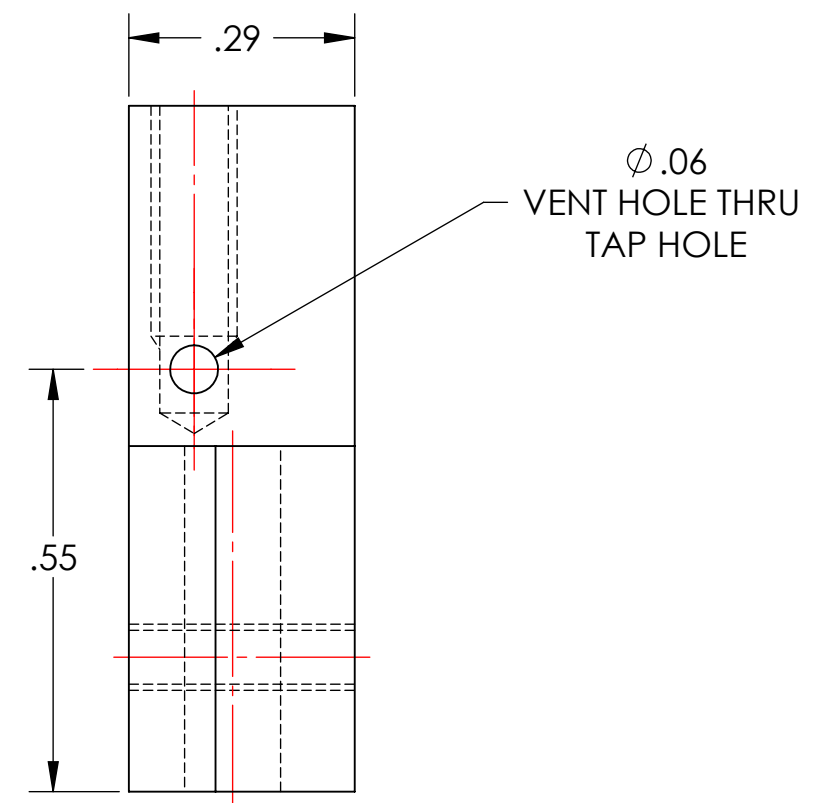
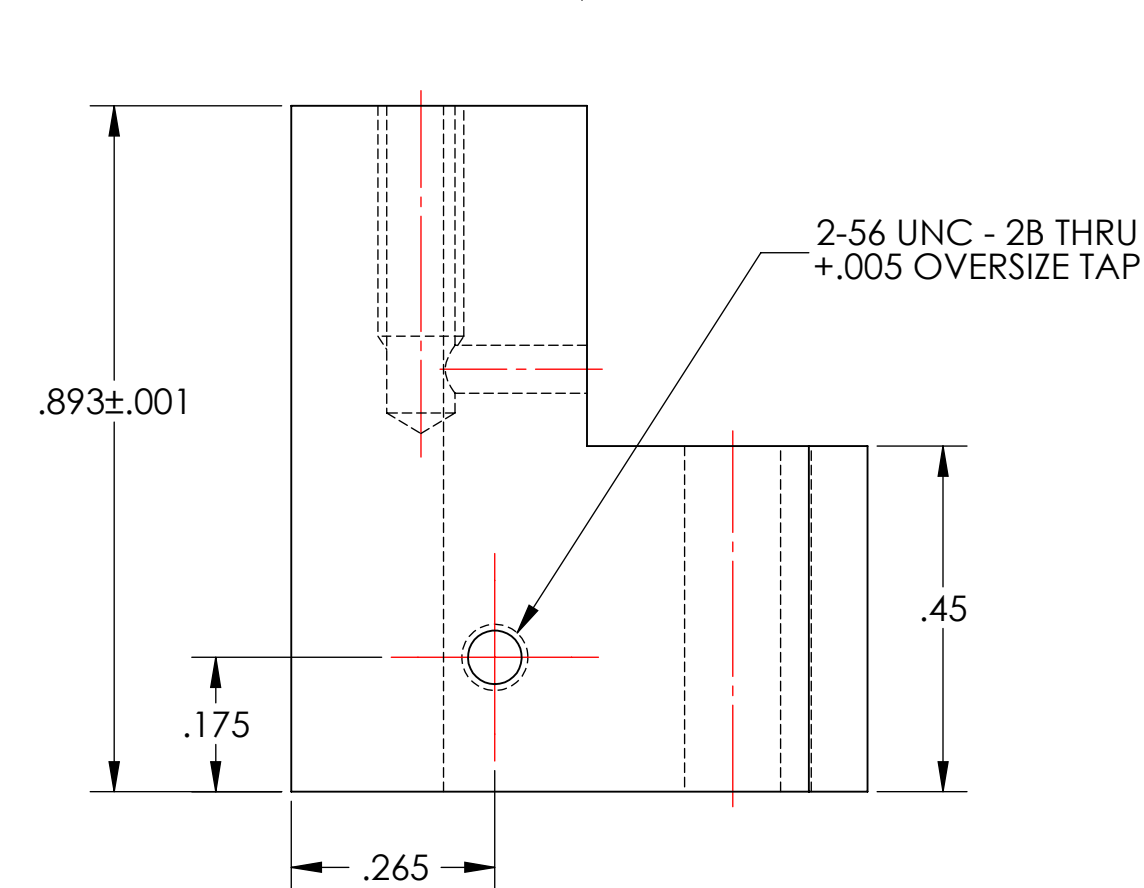
D1001871_allIGO_AOS_D0900614_Faraday Isolator Spring Block LH, PART PDM REV: X-004, DRAWING PDM REV: X-004

- NOTES CONTINUED:**
- 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO DYES OR INKS) A UNIQUE THREE DIGIT SERIAL NUMBER & REVISION NUMBER ON EACH PART. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. BAG AND TAG PARTS WITH THEIR DRAWING PART NUMBER, REVISION, VARIANT OR "TYPE" (IF APPLICABLE), AND QUANTITY. IF PARTS ARE TOO SMALL TO SCRIBE, BAGGING AND TAGGING ALONE IS SUFFICIENT.
EXAMPLE (PART): 001-v1
EXAMPLE (TAG): DXXXXXX-VY, TYPE-XX, QTY: TBD
 - 6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 - 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	8 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-



GENERAL VIEW
FOR REFERENCE ONLY
NO SCALE



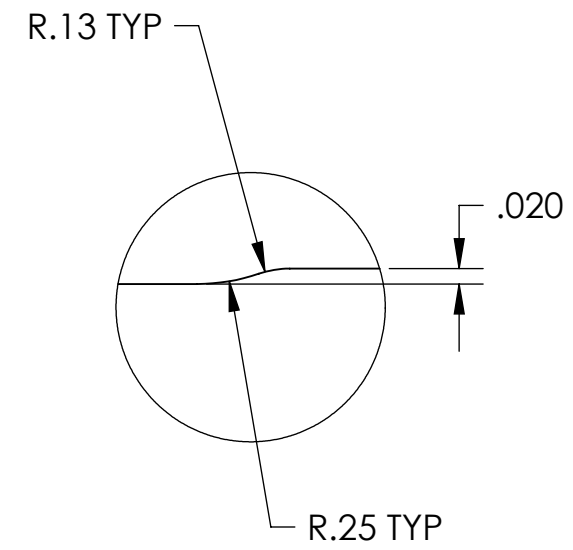
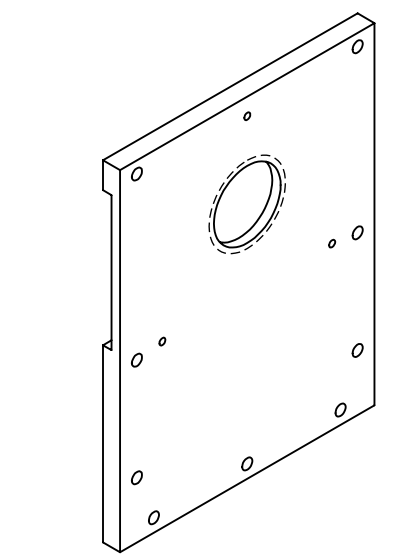
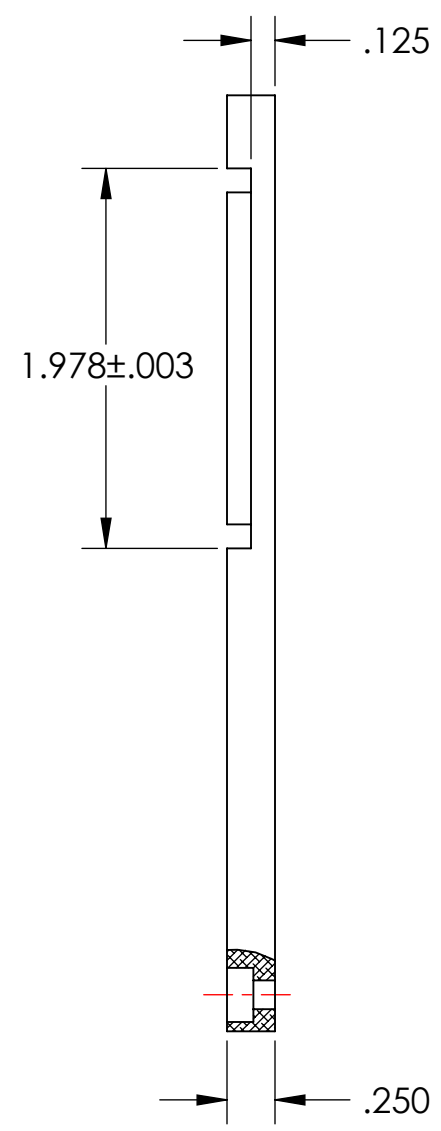
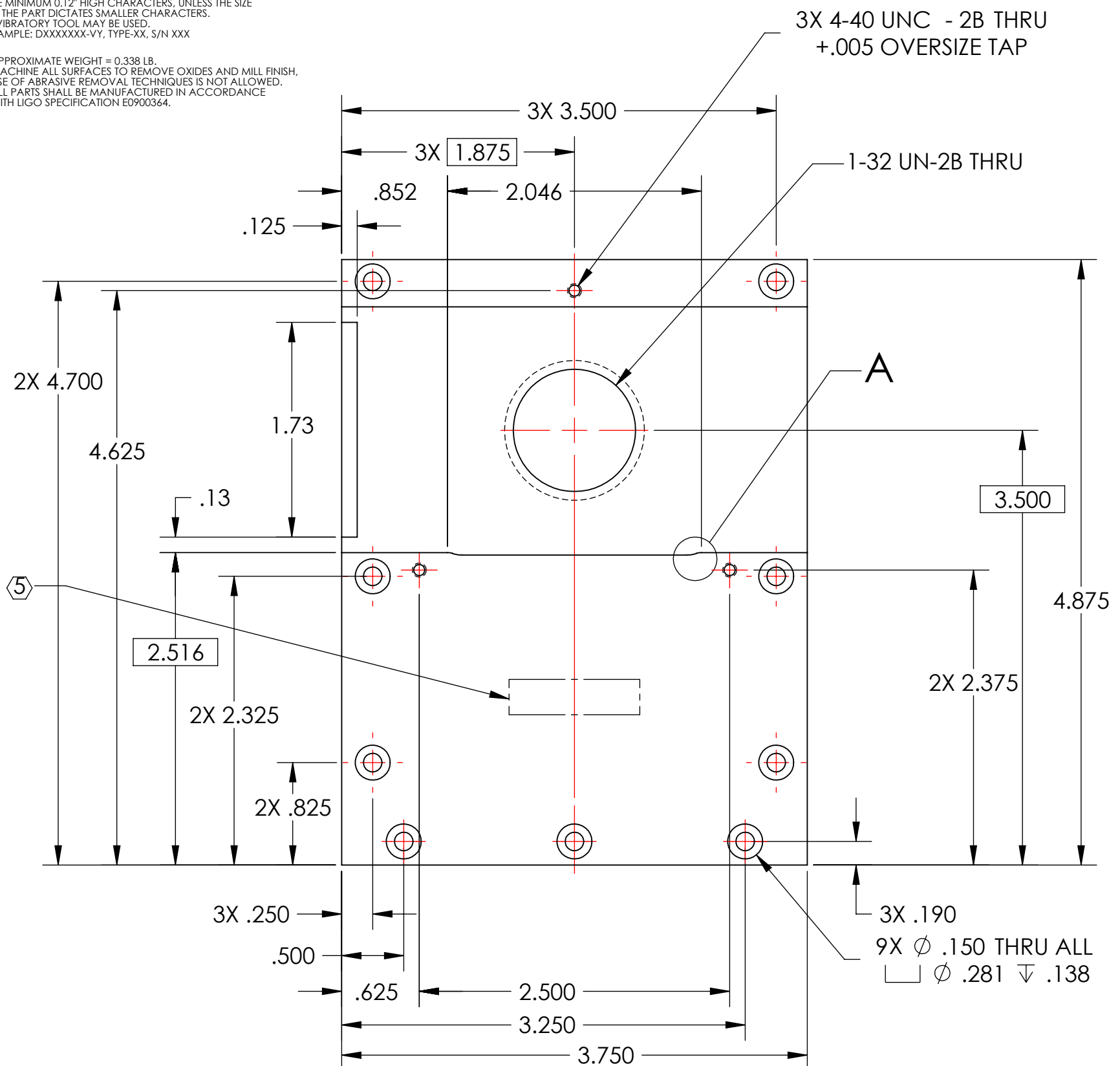
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME			
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .01 .XXX ± .005 ANGULAR ± 0.5°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		SYSTEM ADVANCED LIGO		SUB-SYSTEM AOS		SPRING BLOCK_LH	
										MATERIAL 6061-T6 Al	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .01 .XXX ± .005 ANGULAR ± 0.5°		MATERIAL 6061-T6 Al		FINISH 63 μinch		NEXT ASSY D0900614		DESIGNER TQ. NGUYEN 14 JUL 2010		DRAFTER TQ. NGUYEN 27 AUG 2010	
								CHECKER M. SMITH		SIZE DWG. NO. B D1001871	
								APPROVAL D. COYNE		REV. v1	
								SCALE: 4:1		PROJECTION:	
								SHEET 1 OF 1			

D1001915_d1LIGO_AOS_Wedge Window Panel_Input Baffle, PART PDM REV: X-014, DRAWING PDM REV: X-007

NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
 EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. APPROXIMATE WEIGHT = 0.338 LB.
 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	7 OCT 2010	E1000563	-



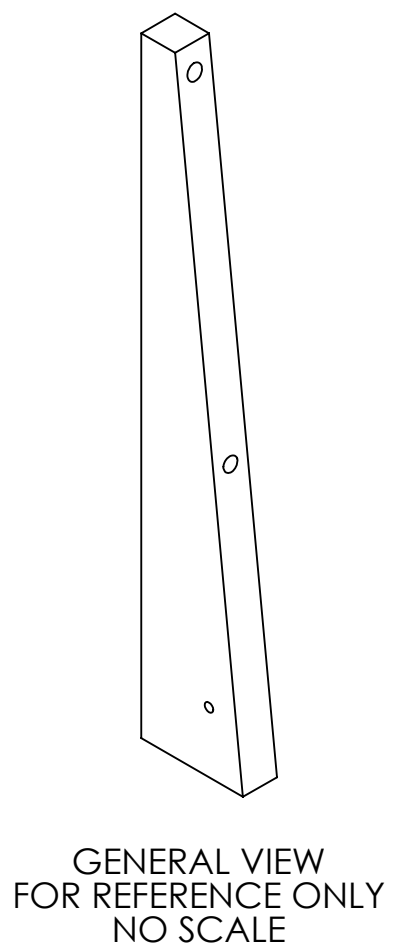
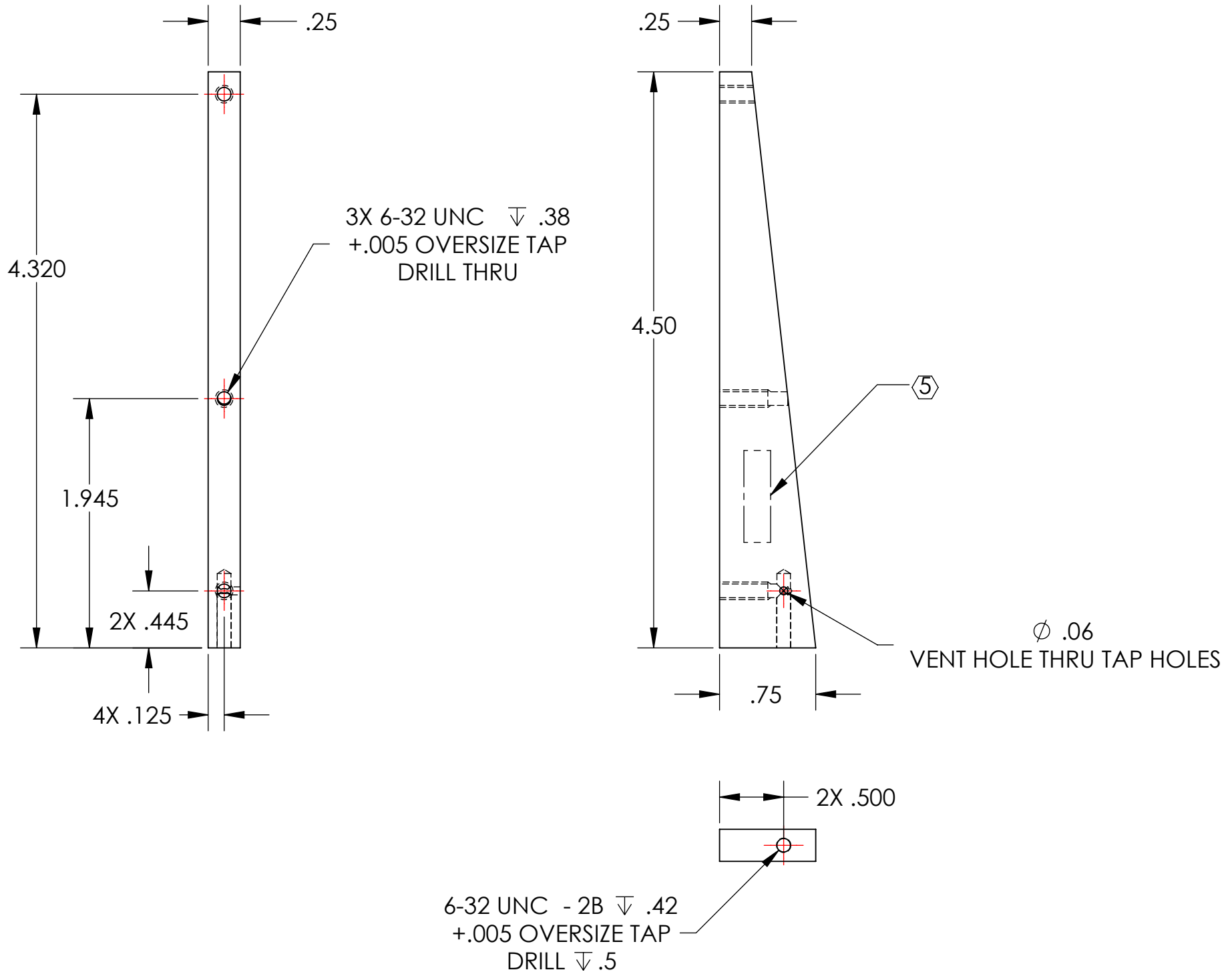
DETAIL A
 SCALE 4 : 1

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				PART NAME	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX \pm .01 .XXX \pm .005 ANGULAR \pm 0.5°				INPUT Baffle HOLDER	
1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.				DESIGNER TQ. NGUYEN 26 JUL 2010 DRAFTER TQ. NGUYEN 23 AUG 2010 CHECKER M. SMITH APPROVAL D. COYNE	
MATERIAL 6061-T6 Al		FINISH 63 μ inch		NEXT ASSY D0900623	
DIMENSIONS ARE IN INCHES				SYSTEM ADVANCED LIGO SUB-SYSTEM AOS	
SCALE: 1:1				PROJECTION:	
SIZE DWG. NO. B D1001915				REV. v1	
SHEET 1 OF 1				SHEET 1 OF 1	

NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
 EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. APPROXIMATE WEIGHT = 0.053 LB.
 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	7 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-



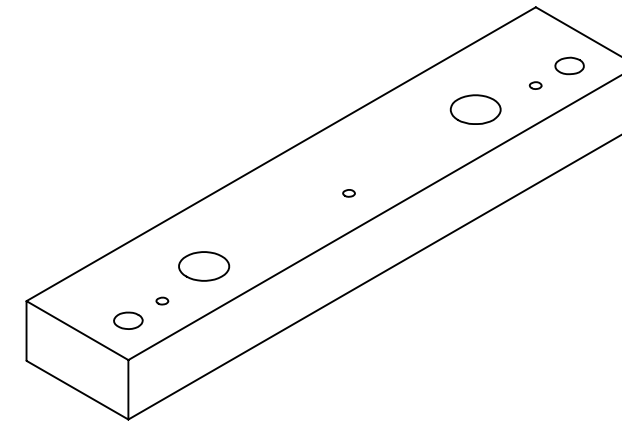
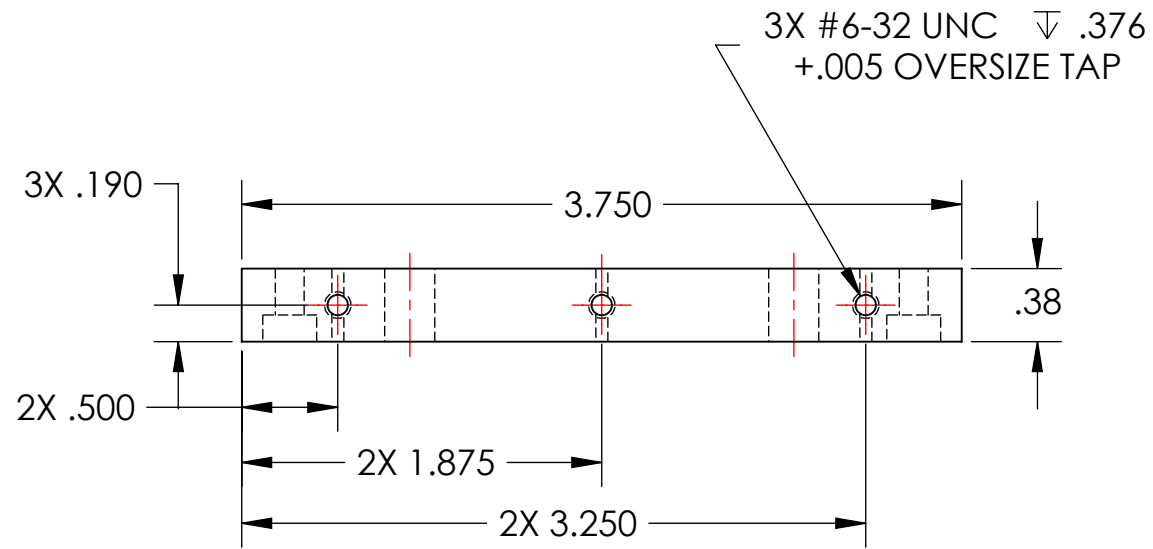
D1001916_d1lGO_AOs_Wedge Window Side Support, PART PDM REV: X-007, DRAWING PDM REV: X-007

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX \pm .01 .XXX \pm .005 ANGULAR \pm 0.5°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		INPUT BAFFLE SIDE SUPPORT	
MATERIAL		FINISH		SYSTEM		SUB-SYSTEM	
6061-T6 Al		63 μ inch		ADVANCED LIGO		AOS	
NEXT ASSY				DESIGNER		DATE	
D1001918				TQ. NGUYEN		27 JUL 2010	
				DRAFTER		DATE	
				M. SMITH		24 AUG 2010	
				CHECKER		SIZE DWG. NO.	
				D. COYNE		B D1001916	
				APPROVAL		REV.	
						v1	
				SCALE: 1:1		PROJECTION:	
						SHEET 1 OF 1	

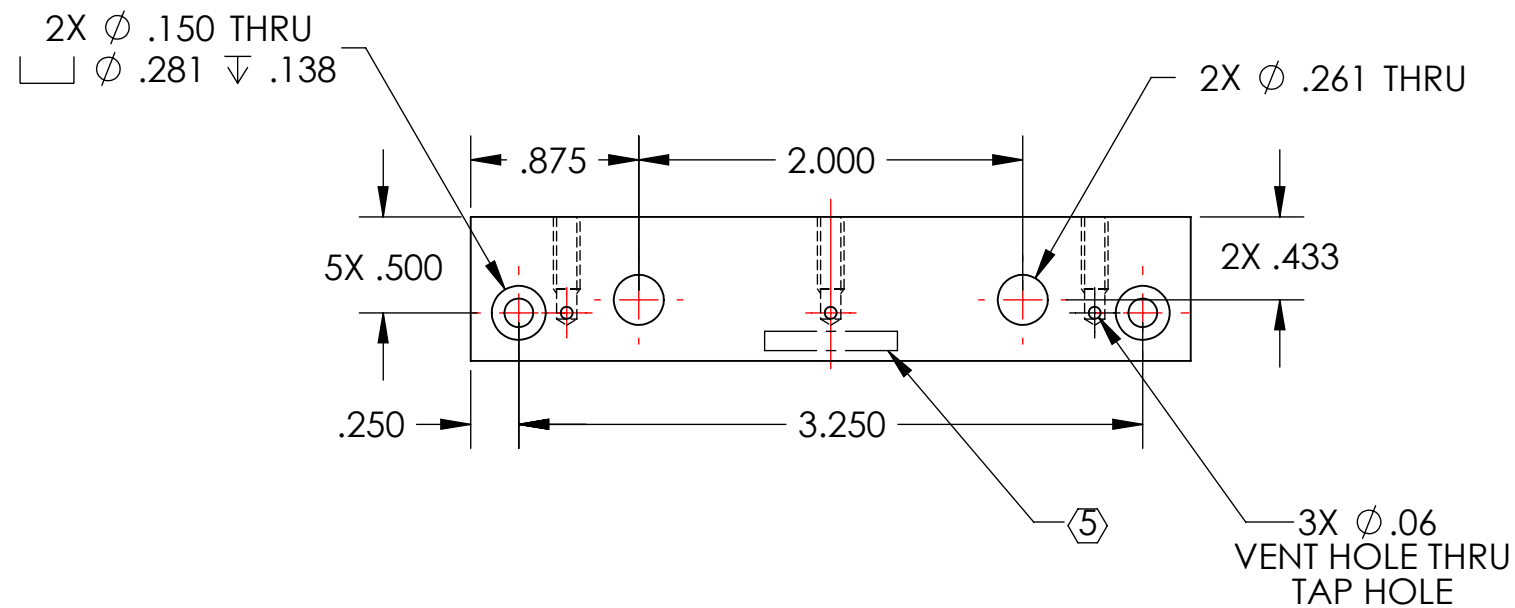
NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
 EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

REV.	DATE	DCN #	DRAWING TREE #
v1	7 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-

6. APPROXIMATE WEIGHT = 0.096 LB.
 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.



GENERAL VIEW
 FOR REFERENCE ONLY
 NO SCALE



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES

TOLERANCES:
 .XX \pm .01
 .XXX \pm .005

ANGULAR \pm 0.5°

1. INTERPRET DRAWING PER ASME Y14.5-1994.
 2. REMOVE ALL SHARP EDGES, R.02 MIN.
 3. DO NOT SCALE FROM DRAWING.
 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

MATERIAL 6061-T6 Al FINISH 63 μ inch

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 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM ADVANCED LIGO SUB-SYSTEM AOS

NEXT ASSY D1001918

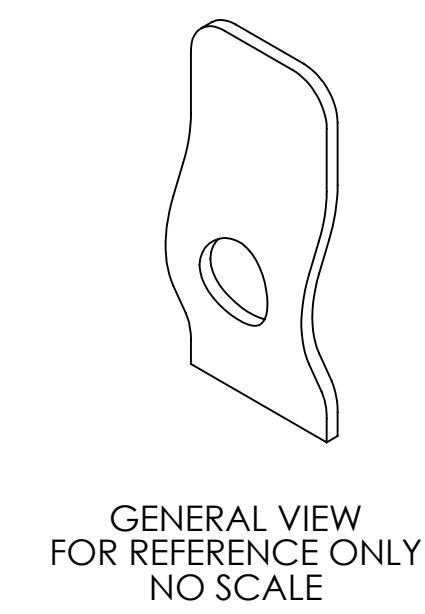
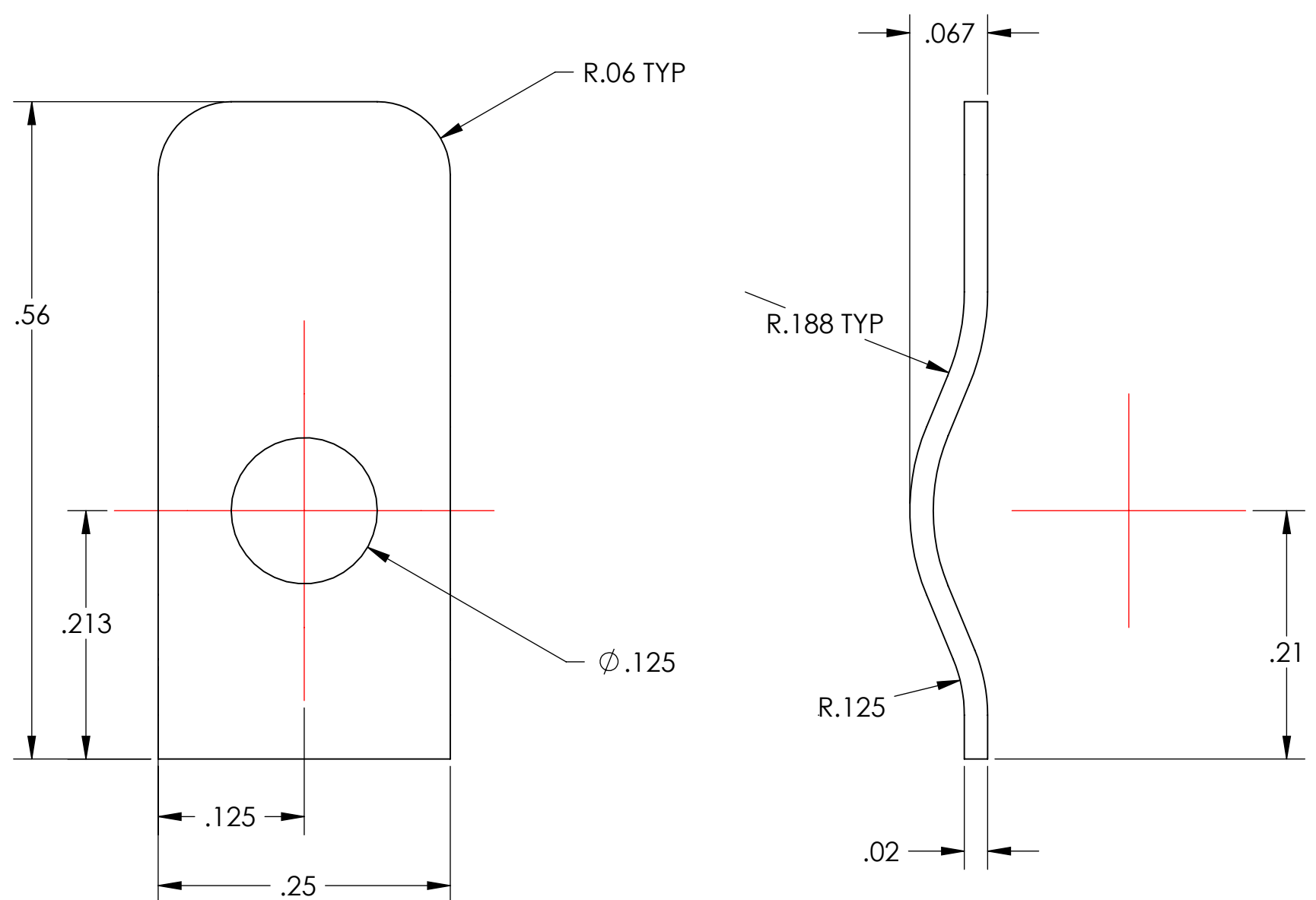
PART NAME			INPUT BAFFLE BASE		REV.
DESIGNER	TQ. NGUYEN	27 JUL 2010	SIZE	DWG. NO.	v1
DRAFTER	TQ. NGUYEN	24 AUG 2010	B	D1001917	
CHECKER	M. SMITH		SCALE:	1:1	
APPROVAL	D. COYNE		PROJECTION:		SHEET 1 OF 1

D1001919_d1lgo_aos_dog_clamp_wedge_window_input_baffle_part_pdm_rev: x-009, drawing_pdm_rev: x-003

NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO DYES OR INKS) A UNIQUE THREE DIGIT SERIAL NUMBER & REVISION NUMBER ON EACH PART. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. BAG AND TAG PARTS WITH THEIR DRAWING PART NUMBER, REVISION, VARIANT OR "TYPE" (IF APPLICABLE), AND QUANTITY. IF PARTS ARE TOO SMALL TO SCRIBE, BAGGING AND TAGGING ALONE IS SUFFICIENT.
 EXAMPLE (PART): 001-v1
 EXAMPLE (TAG): DXXXXXX-VY, TYPE-XX, QTY: TBD

6. APPROXIMATE WEIGHT = 0.001 LB.
 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	7 OCT 2010	E1000563	E1000527
-	-	-	-
-	-	-	-



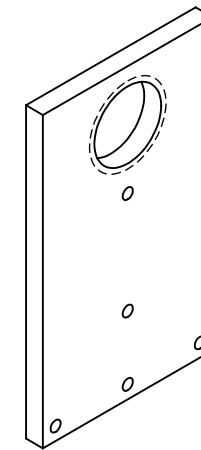
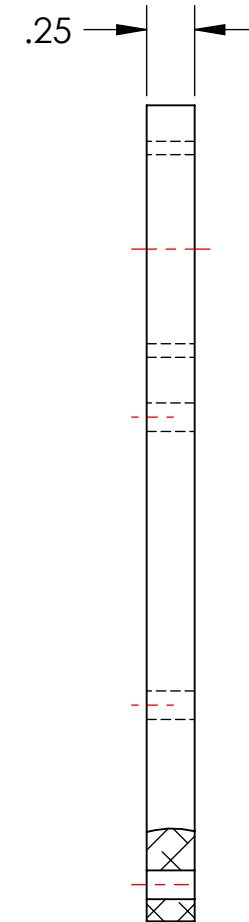
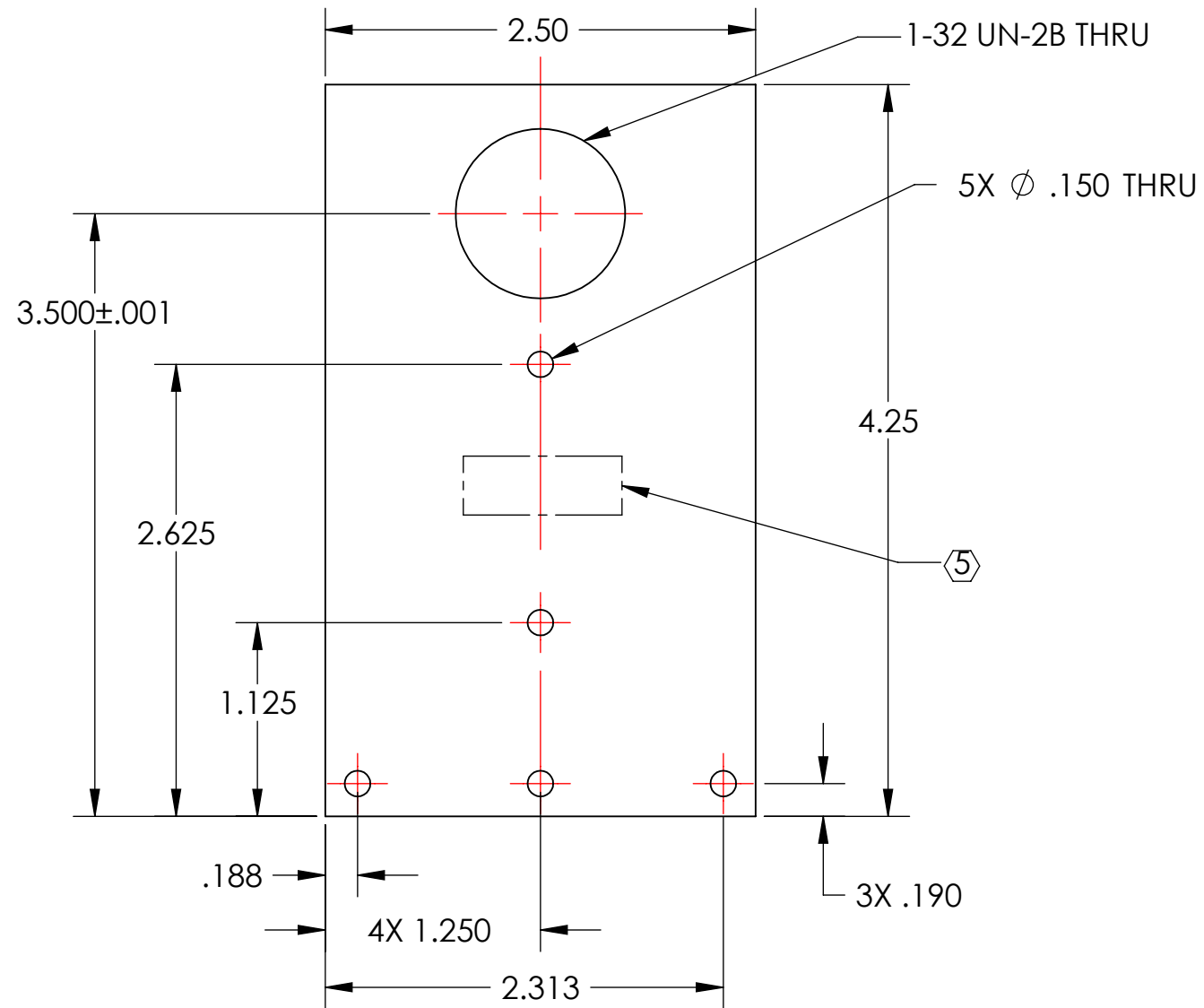
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .01 .XXX ± .005 ANGULAR ± 0.5°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		BEAM DUMP MOUNTING CLAMP	
MATERIAL		FINISH		SYSTEM		SUB-SYSTEM	
304 SSSL		63 μinch		ADVANCED LIGO		AOS	
NEXT ASSY				DESIGNER		DATE	
D1001918				TQ. NGUYEN		2 AUG 2010	
SCALE: 8:1				DRAFTER		DATE	
PROJECTION:				TQ. NGUYEN		24 AUG 2010	
SHEET 1 OF 1				CHECKER		SIZE DWG. NO.	
				M. SMITH		B D1001919	
				APPROVAL		REV.	
				D. COYNE		v1	

D1001959_d1lGO_AOs_Wedge Window Panel_OUTPUT BAFFLE, PART PDM REV: X-013, DRAWING PDM REV: X-009

NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
 EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	7 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-



GENERAL VIEW
 FOR REFERENCE ONLY
 NO SCALE

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES
 TOLERANCES:
 .XX ± .01
 .XXX ± .005
 ANGULAR ± 0.5°

1. INTERPRET DRAWING PER ASME Y14.5-1994.
2. REMOVE ALL SHARP EDGES, R.02 MIN.
3. DO NOT SCALE FROM DRAWING.
4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

MATERIAL 6061-T6 Al FINISH 63 μinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

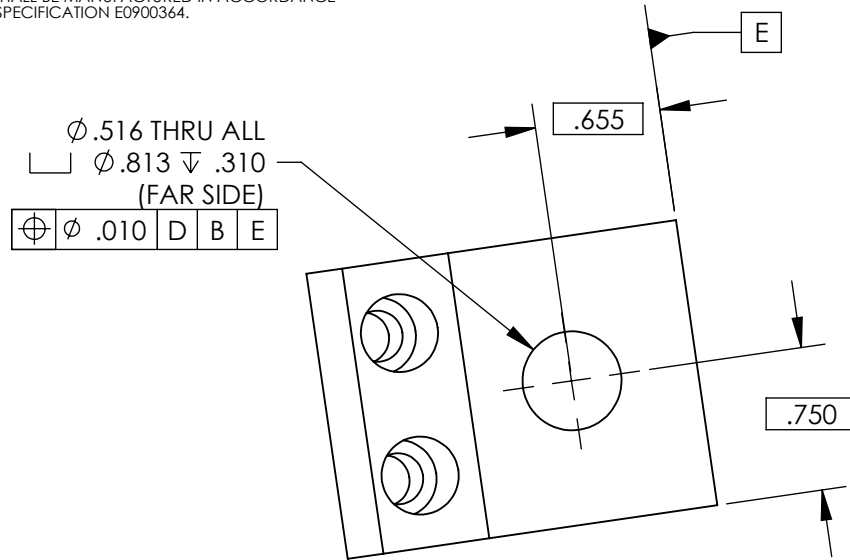
SYSTEM ADVANCED LIGO SUB-SYSTEM AOS
 NEXT ASSY D1001963

PART NAME			RETITLE HOLDER		
DESIGNER	TQ. NGUYEN	26 JUL 2010	SIZE	DWG. NO.	REV.
DRAFTER	TQ. NGUYEN	25 AUG 2010	B	D1001959	v1
CHECKER	M. SMITH		SCALE:	1:1	PROJECTION:
APPROVAL	D. COYNE				SHEET 1 OF 1

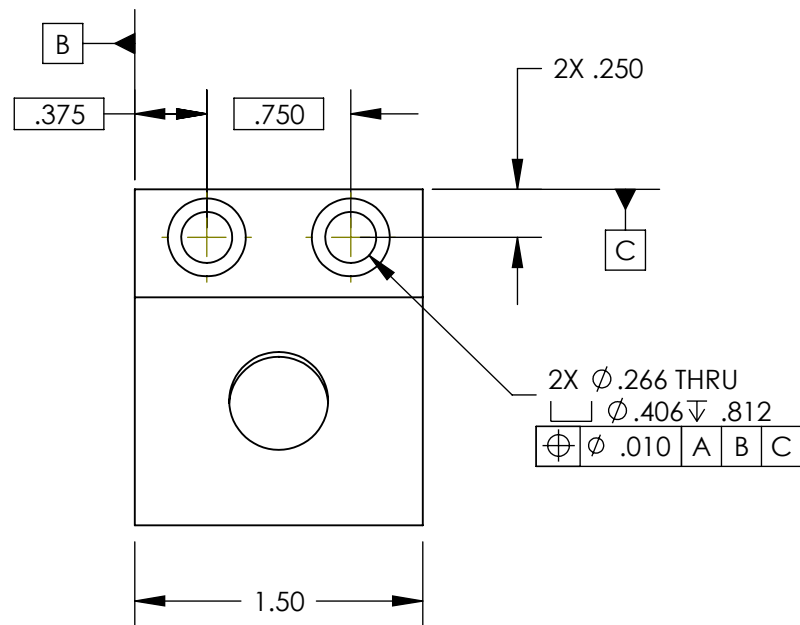
NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
 EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

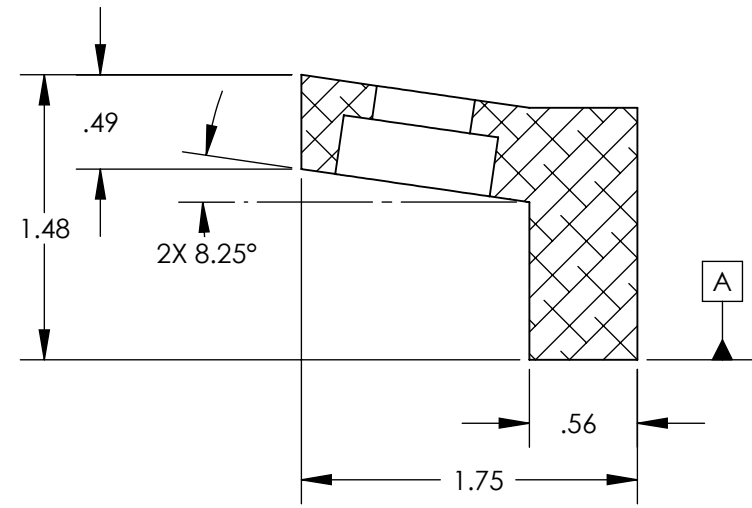
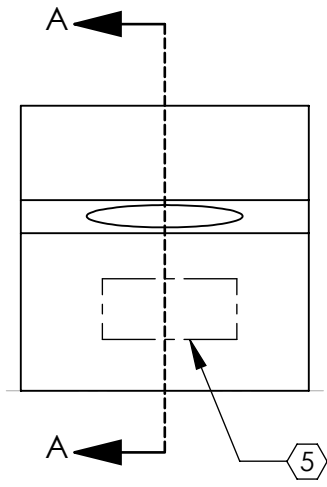
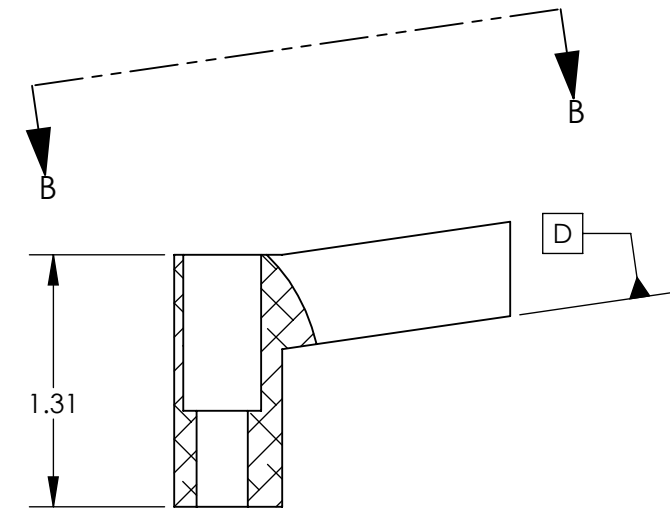
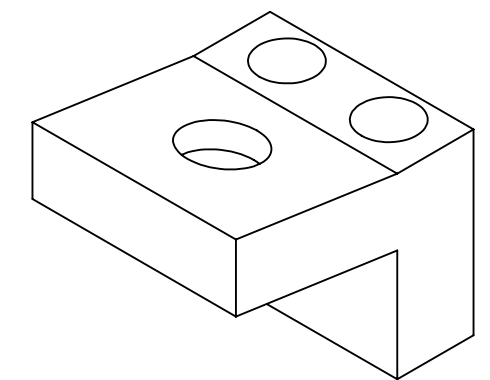
REV.	DATE	DCN #	DRAWING TREE #
v1	08 OCT 2010	E1000563	



VIEW B-B



2X ϕ .266 THRU
 ϕ .406 ∇ .812
 $\oplus \phi$.010 A B C



SECTION A-A

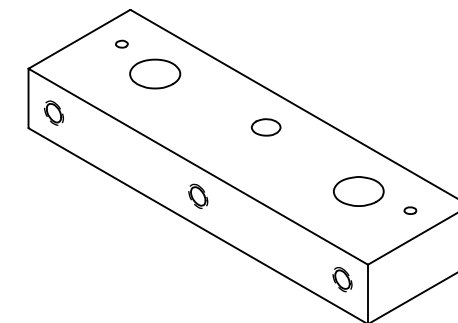
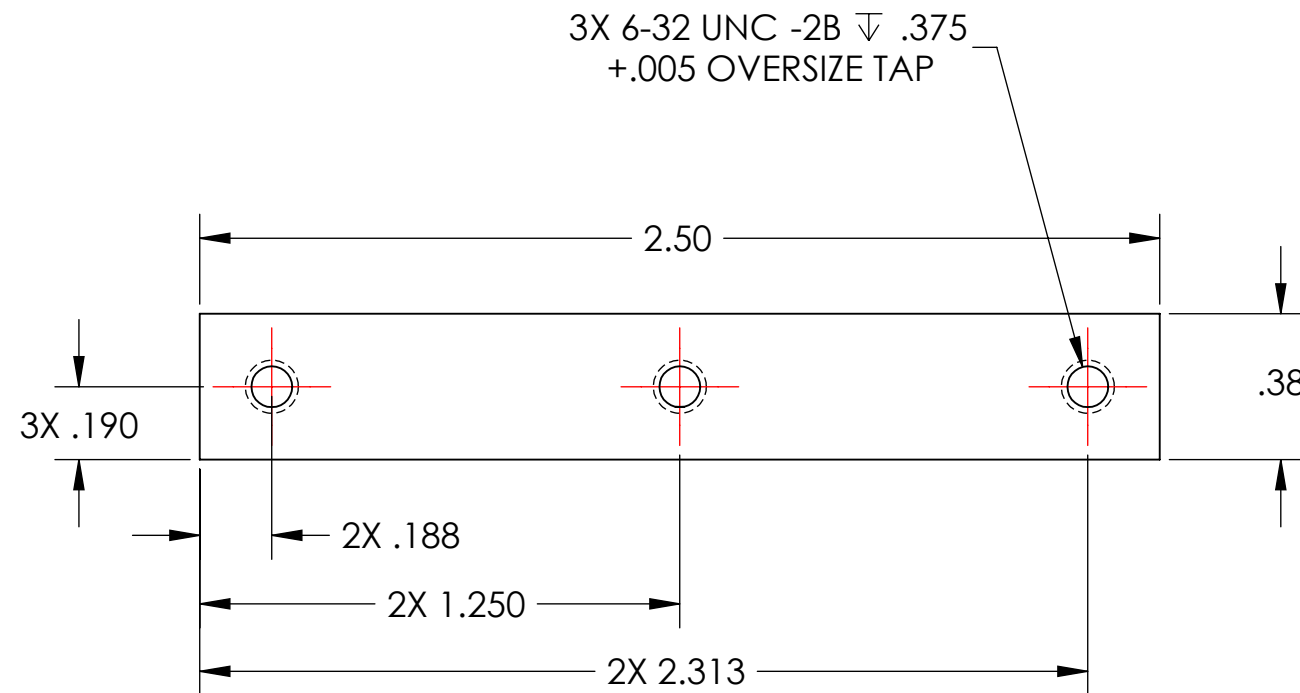
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN TOLERANCES: .XX \pm .02 .XXX \pm .010 ANGULAR \pm 5°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		WIRE SUPPORT BLOCK	
MATERIAL		FINISH		NEXT ASSY		DESIGNER	
6061-T6 Al		63 μ inch		D1001958		MRUIZ	
						DRAFTER	
						CHECKER	
						APPROVAL	
						SIZE DWG. NO.	
						B D1001960	
						REV.	
						v1	
						SCALE: 1:1 PROJECTION:	
						SHEET 1 OF 1	

D1001960_alIGO_AOS_D0901958_Wire Support Block, PART PDM REV: X-008, DRAWING PDM REV: X-008

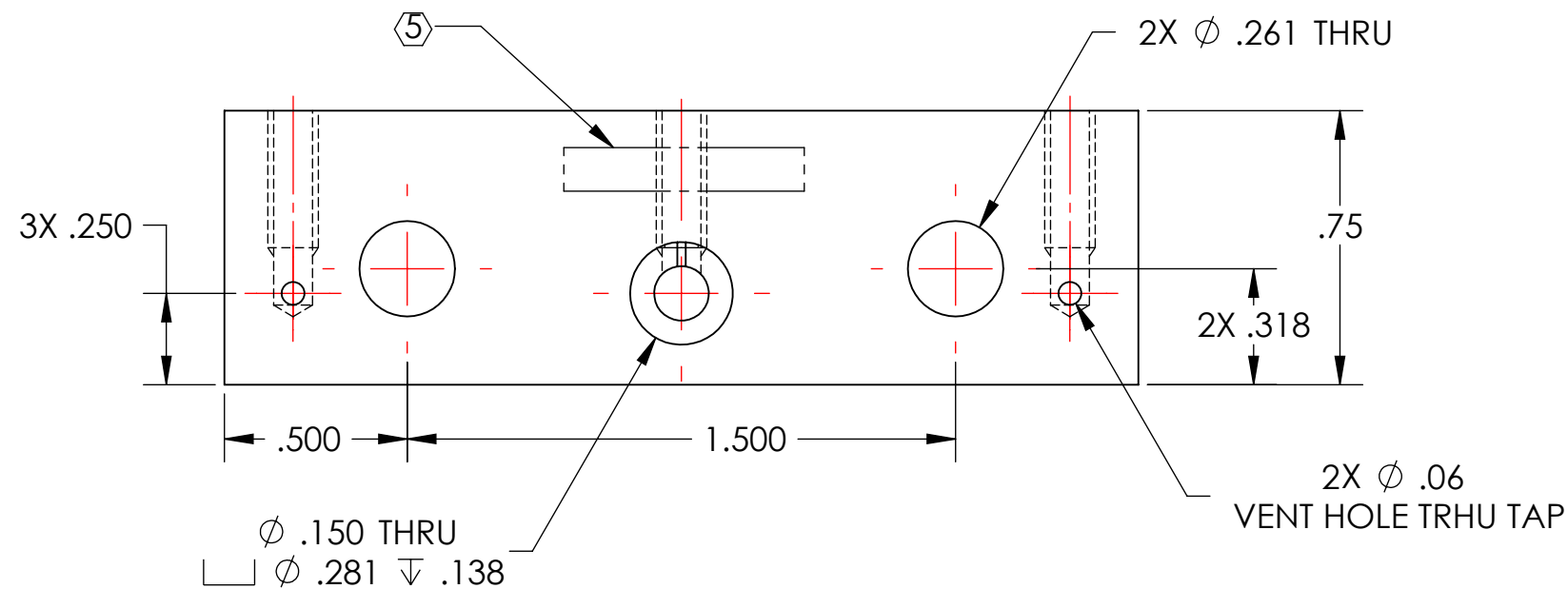
NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
 EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	7 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-



GENERAL VIEW FOR REFERENCE ONLY NO SCALE



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES
 TOLERANCES:
 .XX ± .01
 .XXX ± .005
 ANGULAR ± 0.5°

1. INTERPRET DRAWING PER ASME Y14.5-1994.
 2. REMOVE ALL SHARP EDGES, R.02 MIN.
 3. DO NOT SCALE FROM DRAWING.
 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

MATERIAL 6061-T6 Al FINISH 63 μinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM ADVANCED LIGO SUB-SYSTEM AOS
 NEXT ASSY D1001963

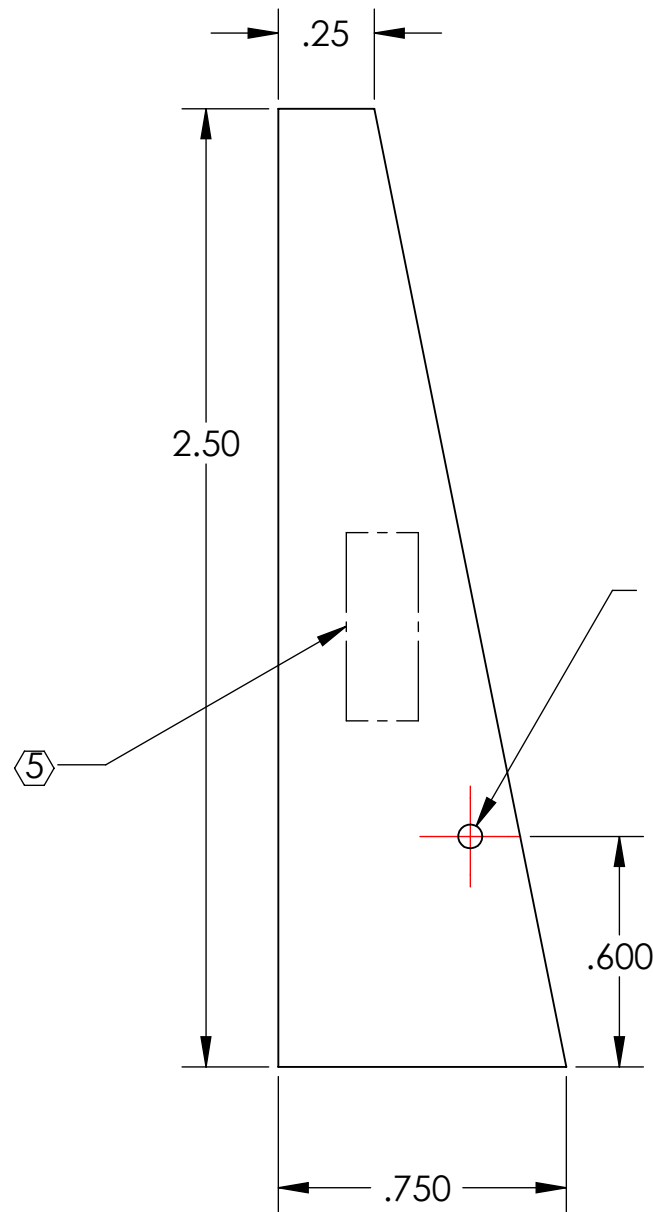
PART NAME OUTPUT ALIGNMENT FIXTURE BASE

DESIGNER	TQ. NGUYEN	27 JUL 2010	SIZE	DWG. NO.	REV.
DRAFTER	TQ. NGUYEN	25 AUG 2010	B	D1001961	v1
CHECKER	M. SMITH		SCALE: 2:1	PROJECTION:	SHEET 1 OF 1
APPROVAL	D. COYNE				

D1001962_d1IGO_AOs_Wedge Window Middle Support_Output Baffle, PART PDM REV: X-009, DRAWING PDM REV: X-007

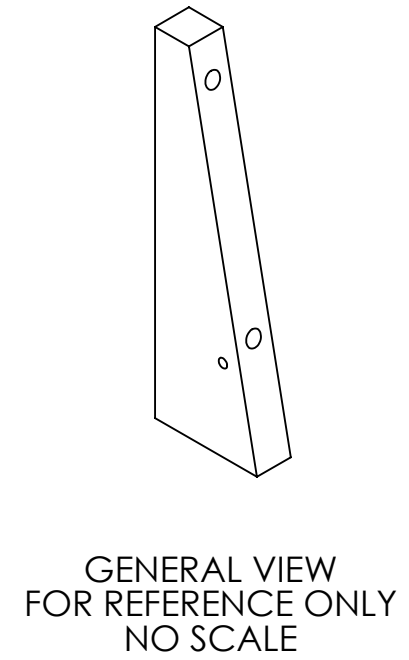
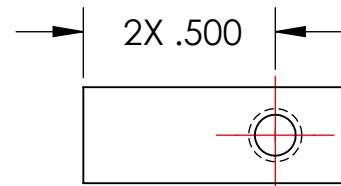
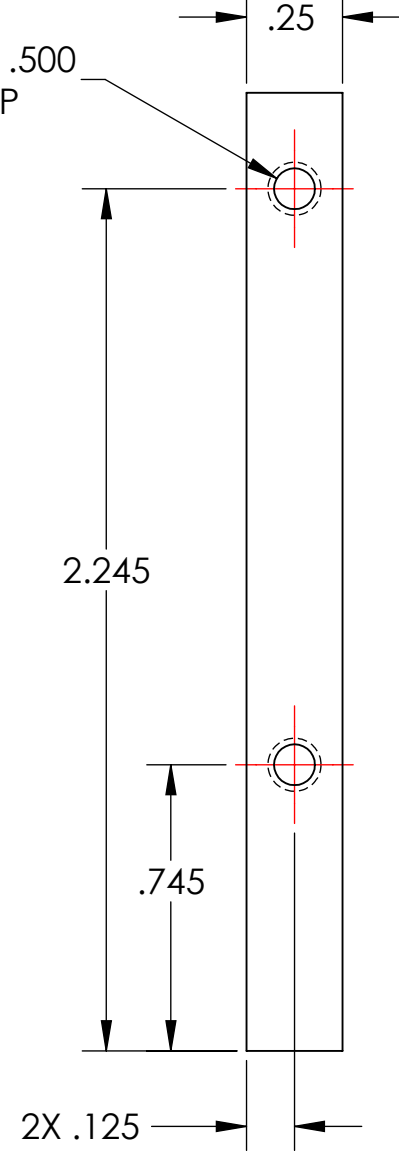
NOTES CONTINUED:
5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.



3X #6-32 UNC - 2B ∇ .500
+.005 OVERSIZE TAP

ϕ .06
VENT HOLE THRU TAP



REV.	DATE	DCN #	DRAWING TREE #
v1	7 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES
TOLERANCES:
.XX \pm .01
.XXX \pm .005
ANGULAR \pm 0.5°

1. INTERPRET DRAWING PER ASME Y14.5-1994.
2. REMOVE ALL SHARP EDGES, R.02 MIN.
3. DO NOT SCALE FROM DRAWING.
4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

MATERIAL 6061-T6 Al FINISH 63 μ inch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM ADVANCED LIGO SUB-SYSTEM AOS

NEXT ASSY D1001963

PART NAME OUTPUT ALIGNMENT FIXTURE SUPPORT

DESIGNER TQ. NGUYEN 27 JUL 2010
DRAFTER TQ. NGUYEN 25 AUG 2010
CHECKER M. SMITH
APPROVAL D. COYNE

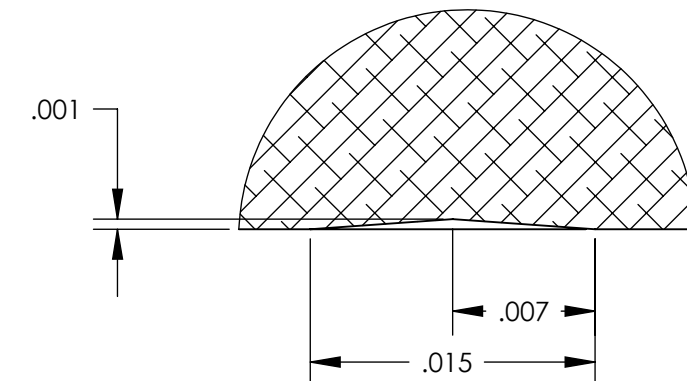
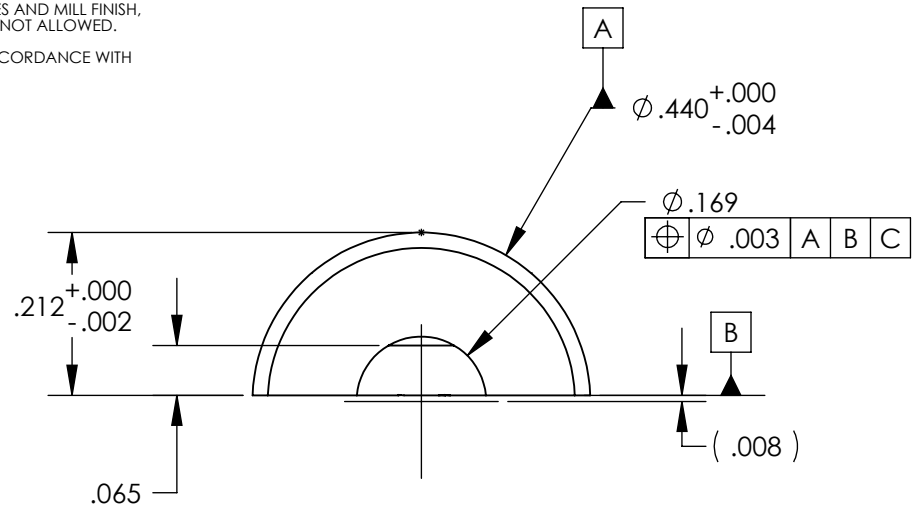
SIZE DWG. NO. B D1001962
SCALE: 2:1 PROJECTION: SHEET 1 OF 1

NOTES CONTINUED:

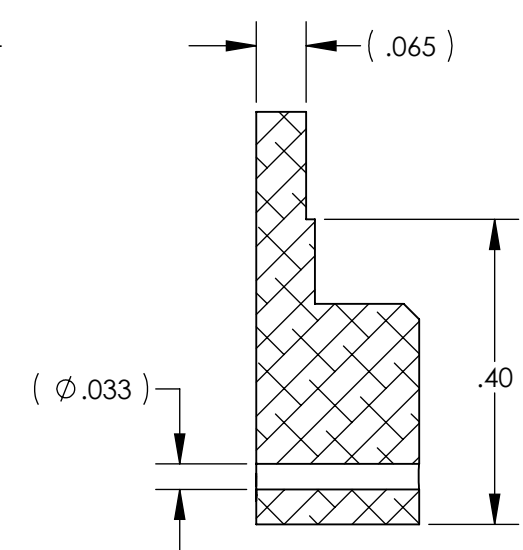
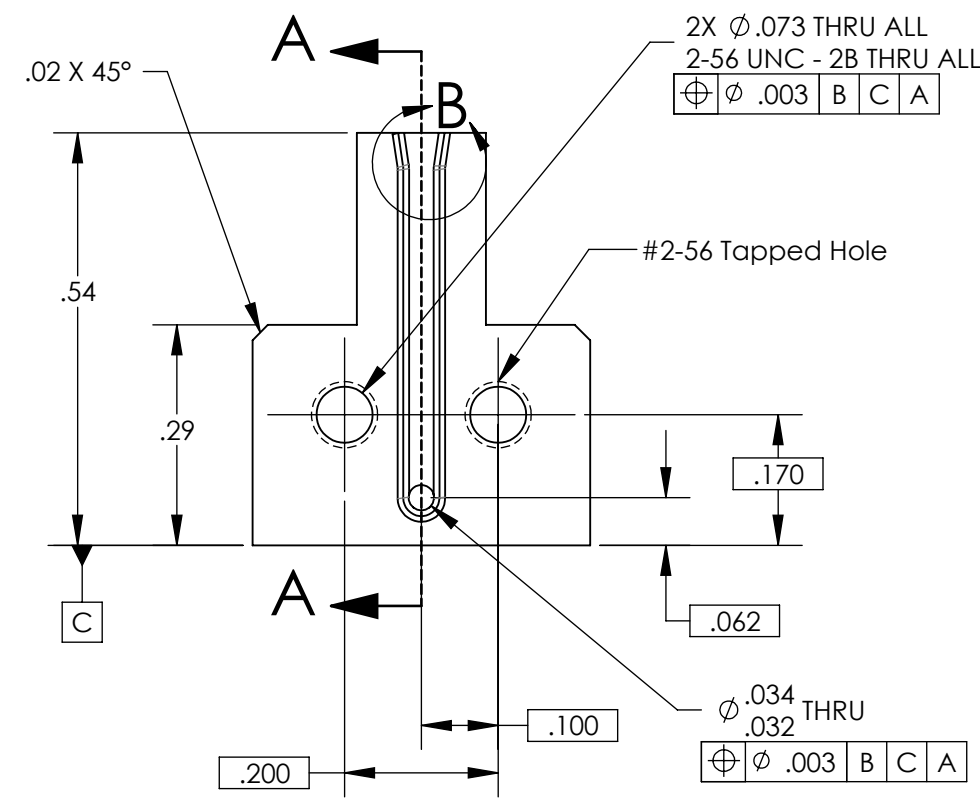
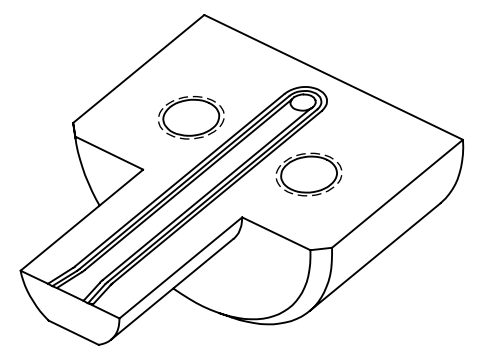
5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO DYES OR INKS) A UNIQUE THREE DIGIT SERIAL NUMBER & REVISION NUMBER ON EACH PART. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. BAG AND TAG PARTS WITH THEIR DRAWING PART NUMBER, REVISION, VARIANT OR "TYPE" (IF APPLICABLE), AND QUANTITY. IF PARTS ARE TOO SMALL TO SCRIBE, BAGGING AND TAGGING ALONE IS SUFFICIENT.
 EXAMPLE (PART): 001-v1
 EXAMPLE (TAG): DXXXXXX-VY, TYPE-XX, QTY: TBD

6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

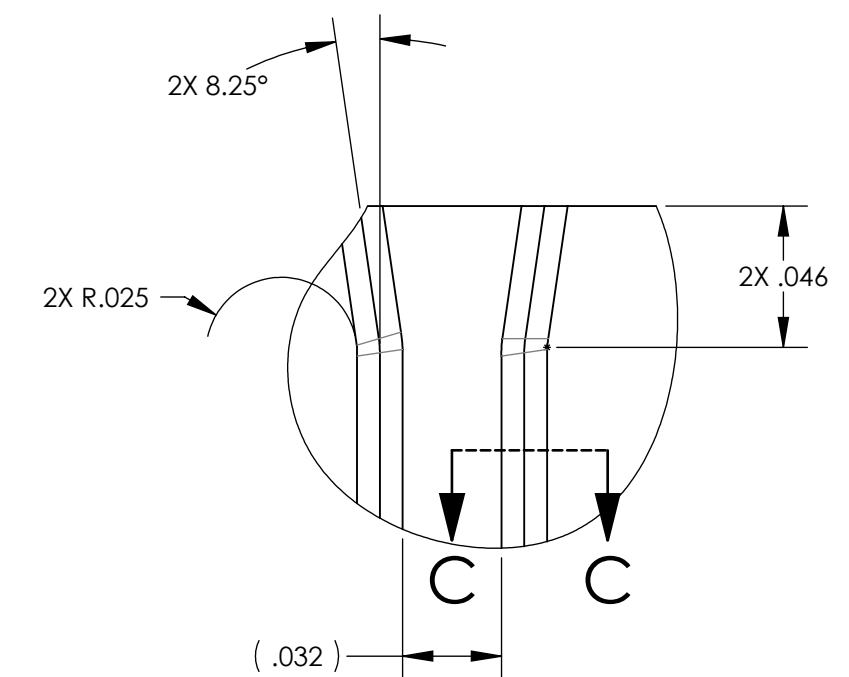
REV.	DATE	DCN #	DRAWING TREE #
v1	07 OCT 2010	E1000563	



DETAIL C
SCALE 100 : 1



SECTION A-A



DETAIL B
SCALE 16 : 1

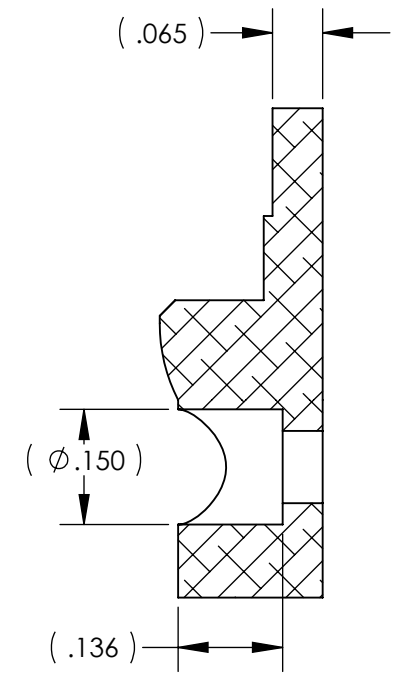
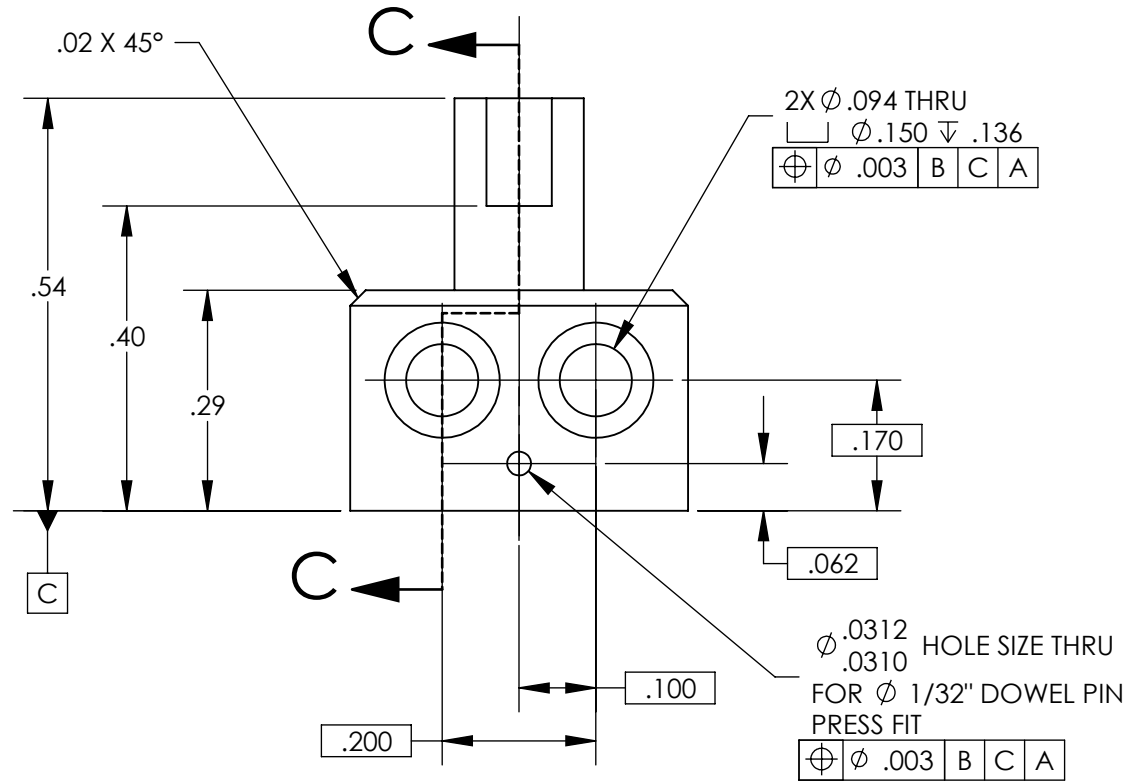
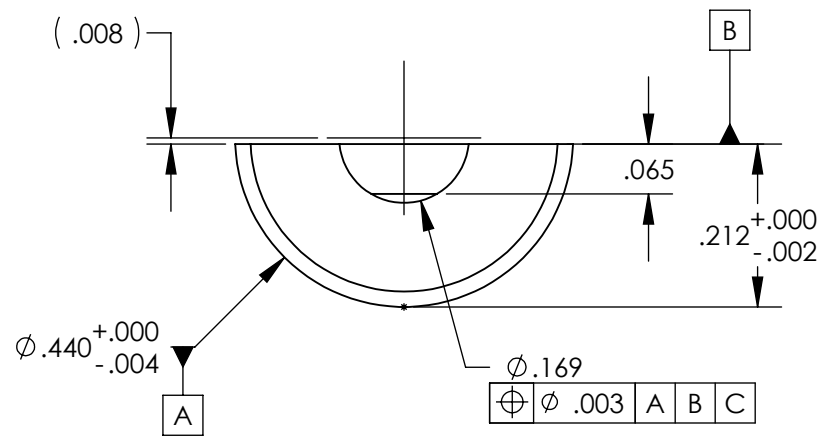
D1002168_AdlIGO_AOS_Music Wire Split Clamp 3, PART PDM REV: X-008, DRAWING PDM REV: X-007

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN TOLERANCES: .XX ± .005 .XXX ± .002 ANGULAR ± .5°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		MUSIC WIRE SPLIT CLAMP 3	
MATERIAL 304, 316 OR 302 SSSL		FINISH 63 μinch		NEXT ASSY D0900586		DESIGNER M.RUIZ	
				SUB-SYSTEM AOS		DATE 24 SEP 2010	
				CHECKER		SIZE DWG. NO. B D1002168	
				APPROVAL		REV. v1	
				SCALE: 4:1		PROJECTION:	
						SHEET 1 OF 1	

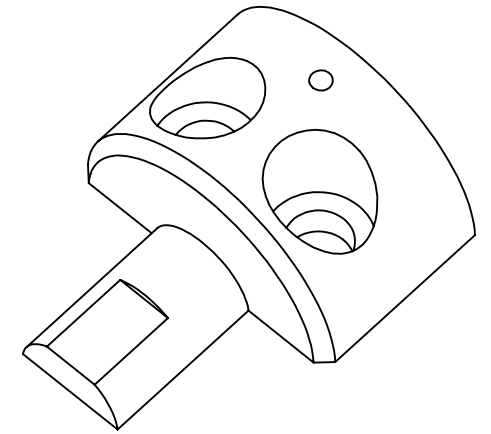
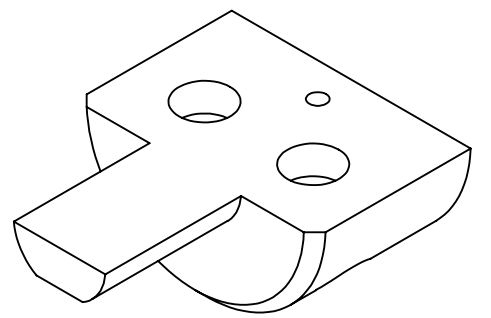
NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO DYES OR INKS) A UNIQUE THREE DIGIT SERIAL NUMBER & REVISION NUMBER ON EACH PART. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. BAG AND TAG PARTS WITH THEIR DRAWING PART NUMBER, REVISION, VARIANT OR "TYPE" (IF APPLICABLE), AND QUANTITY. IF PARTS ARE TOO SMALL TO SCRIBE, BAGGING AND TAGGING ALONE IS SUFFICIENT.
 EXAMPLE (PART): 001-v1
 EXAMPLE (TAG): DXXXXXX-VY, TYPE-XX, QTY: TBD

REV.	DATE	DCN #	DRAWING TREE #
v1	07 OCT 2010	E1000563	

D 6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.



SECTION C-C



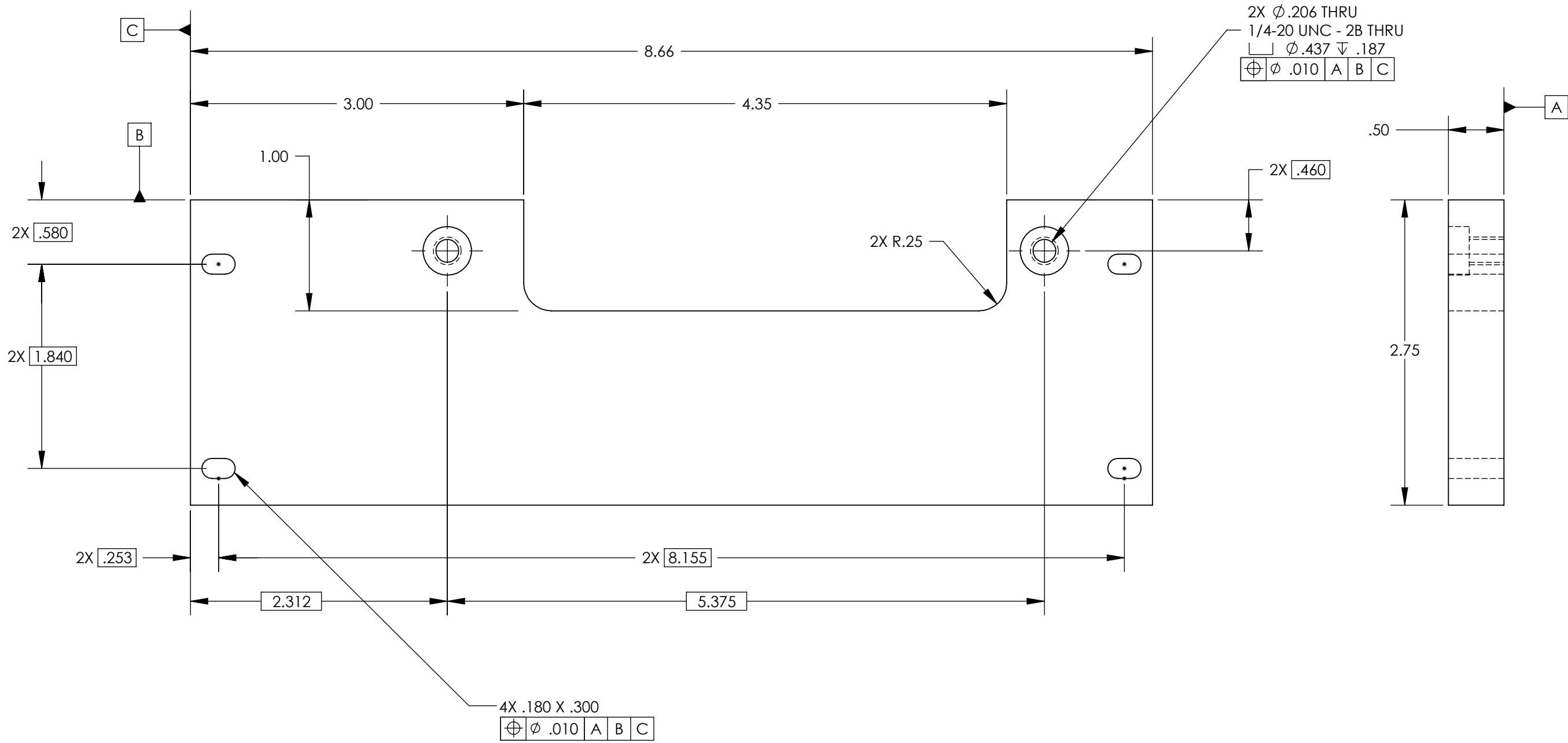
D1002169_AdlIGO_AOS_D0900586_Music Wire Split Clamp 4, PART PDM REV: X-002, DRAWING PDM REV: X-007

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN TOLERANCES: .XX ± .005 .XXX ± .002 ANGULAR ± .5°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		MUSIC WIRE SPLIT CLAMP 4	
MATERIAL 304, 316 OR 302 SSSL		FINISH 63 μinch		SYSTEM ADVANCED LIGO		SUB-SYSTEM AOS	
NEXT ASSY D0900586				DESIGNER M.RUIZ		DATE 24 SEP 2010	
				CHECKER		SIZE DWG. NO. B D1002169	
				APPROVAL		REV. v1	
				SCALE: 4:1		PROJECTION:	
				SHEET 1 OF 1			

NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
 EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH, USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	08 OCT 2010	E1000563	



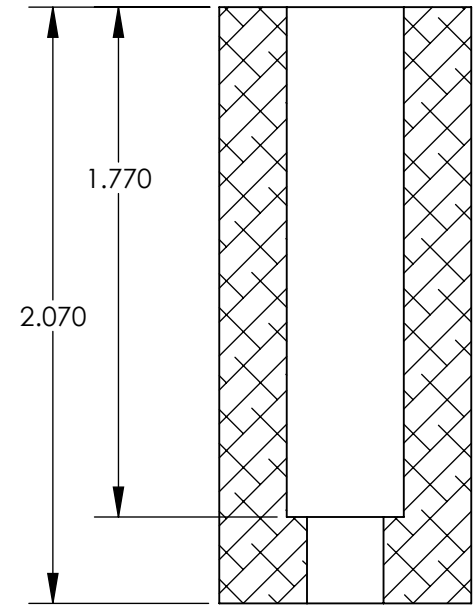
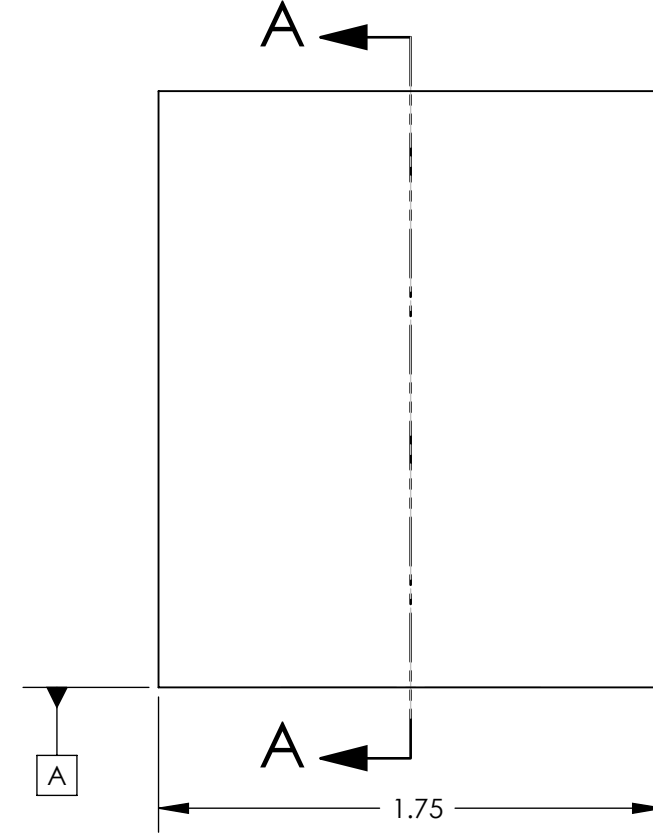
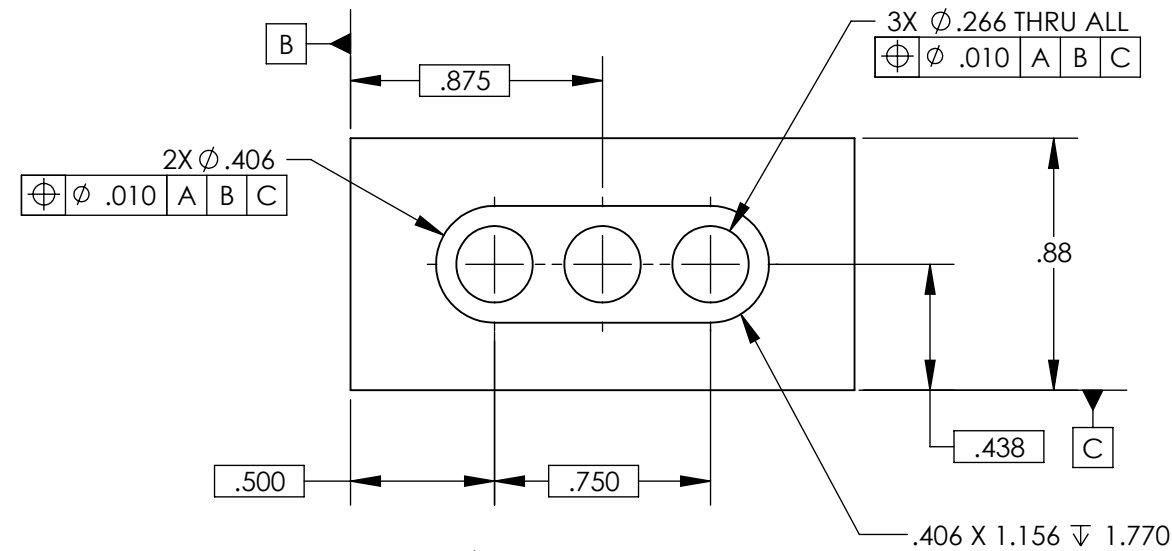
D1002257_ALIGO_AOS_D100256_Crossbar Plate_In, PART PDM REV: X-005, DRAWING PDM REV: X-009

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN TOLERANCES: .XX \pm .02 .XXX \pm .010 ANGULAR \pm .5°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		CROSSBAR PLATE_IN	
MATERIAL 6061-T6 Al		FINISH 63 μ inch		SYSTEM ADVANCED LIGO		SUB-SYSTEM AOS	
NEXT ASSY D1002256				DESIGNER MRUIZ		DATE 08/25/2010	
				CHECKER		SIZE DWG. NO. B D1002257	
				APPROVAL		REV. v1	
				SCALE: 1:1		PROJECTION:	
						SHEET 1 OF 1	

D1002533_ALIGO_AOS_Output Faraday Isolator Dummy Weight, PART PDM REV: X-004, DRAWING PDM REV: X-002

- NOTES CONTINUED:**
5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX
 6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH, USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	07 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-



SECTION A-A

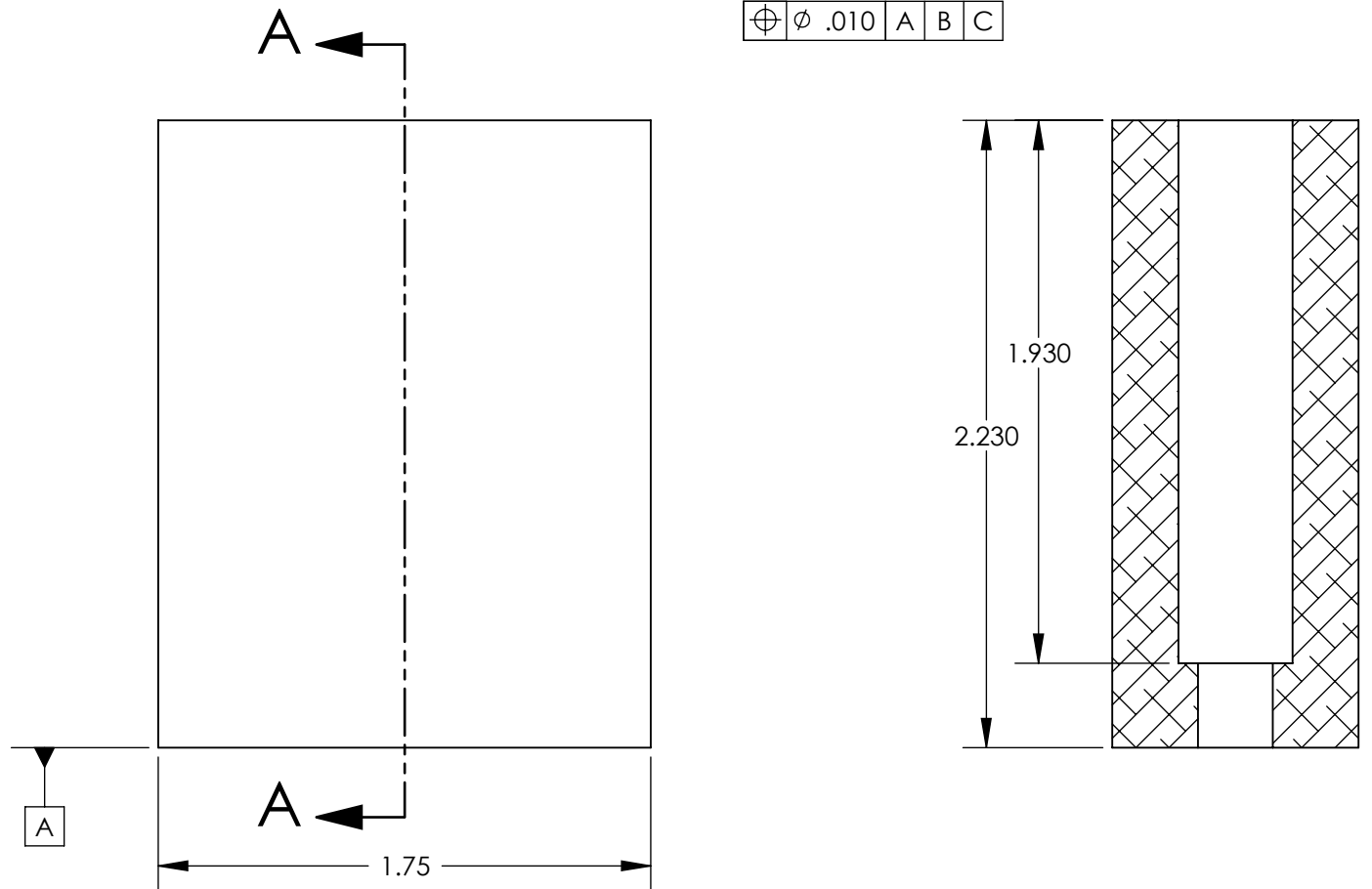
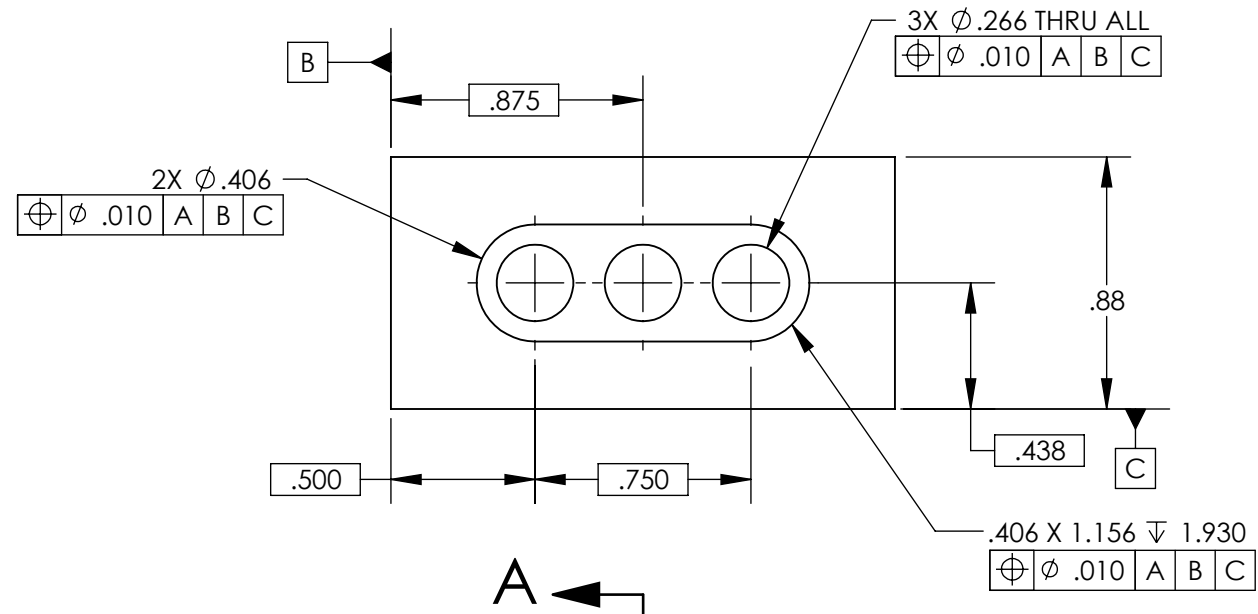
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN TOLERANCES: .XX ± .02 .XXX ± .010 ANGULAR ± .5°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		Output Faraday Isolator Dummy Weight	
MATERIAL		FINISH		NEXT ASSY		DESIGNER	SIZE DWG. NO.
304, 316 OR 302 SSTL		63 μinch		D0900623		M.RUIZ	B
						01 OCT 2010	D1002533
							v1
							SCALE: 3:2
							PROJECTION:
							SHEET 1 OF 1

D1002540_ALIGO_AOS_Output Faraday Isolator Dummy Weight (rotate), PART PDM REV: X-002, DRAWING PDM REV: X-003

NOTES CONTINUED:

- 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX
- 6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
- 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	07 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-

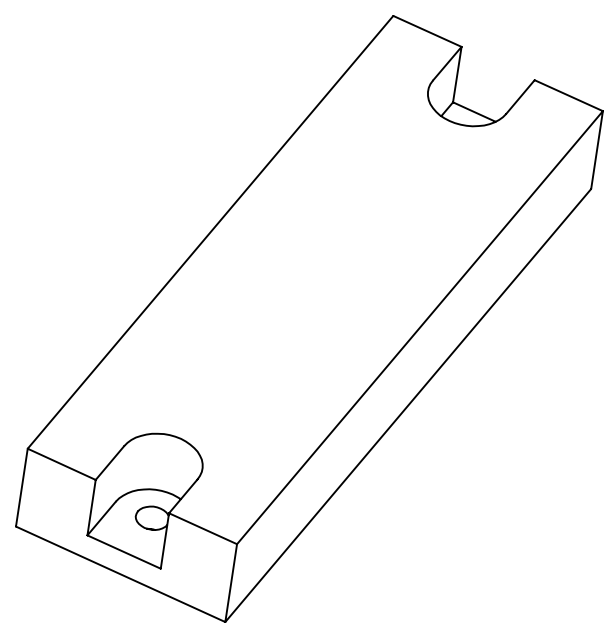
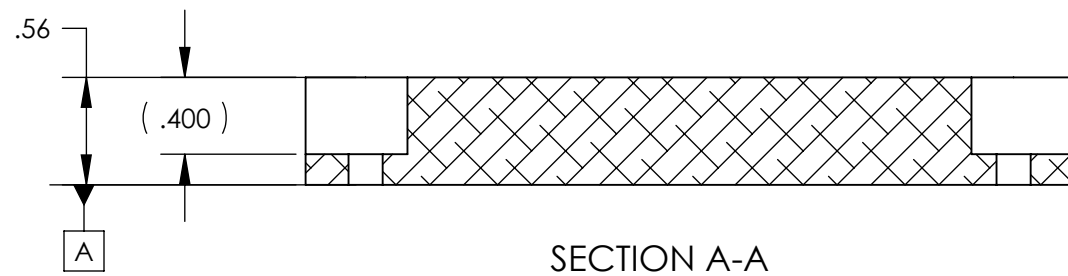
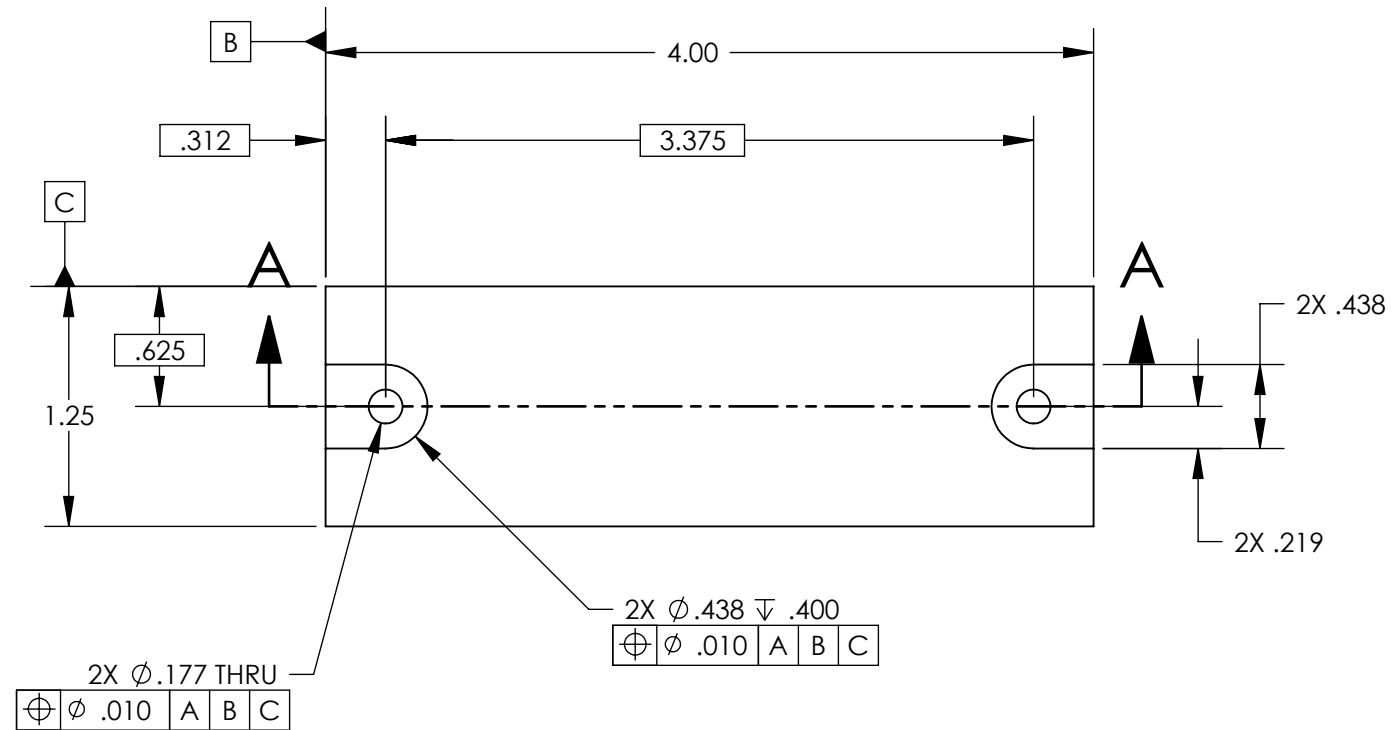


NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO		CALIFORNIA INSTITUTE OF TECHNOLOGY		MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN TOLERANCES: .XX \pm .02 .XXX \pm .010 ANGULAR \pm .5°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		SYSTEM		SUB-SYSTEM		Output Faraday Isolator Dummy Weight (rotate)	
										MATERIAL 304, 316 OR 302 SSSL	
										REV. v1	
										SCALE: 3:2 PROJECTION: SHEET 1 OF 1	

D1002542_AdlIGO_AOS_FID0900623_Table Balance Weight. 75#, PART PDM REV: X-007, DRAWING PDM REV: X-004

- NOTES CONTINUED:**
- 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX
 - 6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 - 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	07 OCT 2010	E1000563	-
-	-	-	-
-	-	-	-

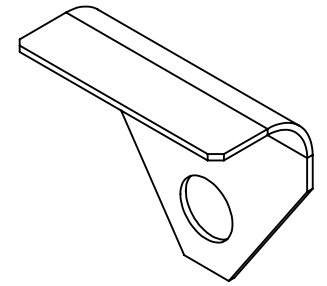


NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN TOLERANCES: .XX ± .01 .XXX ± .005 ANGULAR ± .5°				1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		TABLE BALANCE WEIGHT, .75#	
MATERIAL 304, 316 OR 302 SSTL		FINISH 125 µinch		SYSTEM ADVANCED LIGO		SUB-SYSTEM AOS	
NEXT ASSY D0900623				DESIGNER MRUIZ		DATE 01 OCT 2010	
				CHECKER		SIZE DWG. NO. B D1002542	
				APPROVAL		REV. v1	
				SCALE: 1:1		PROJECTION:	
				SHEET 1 OF 1			

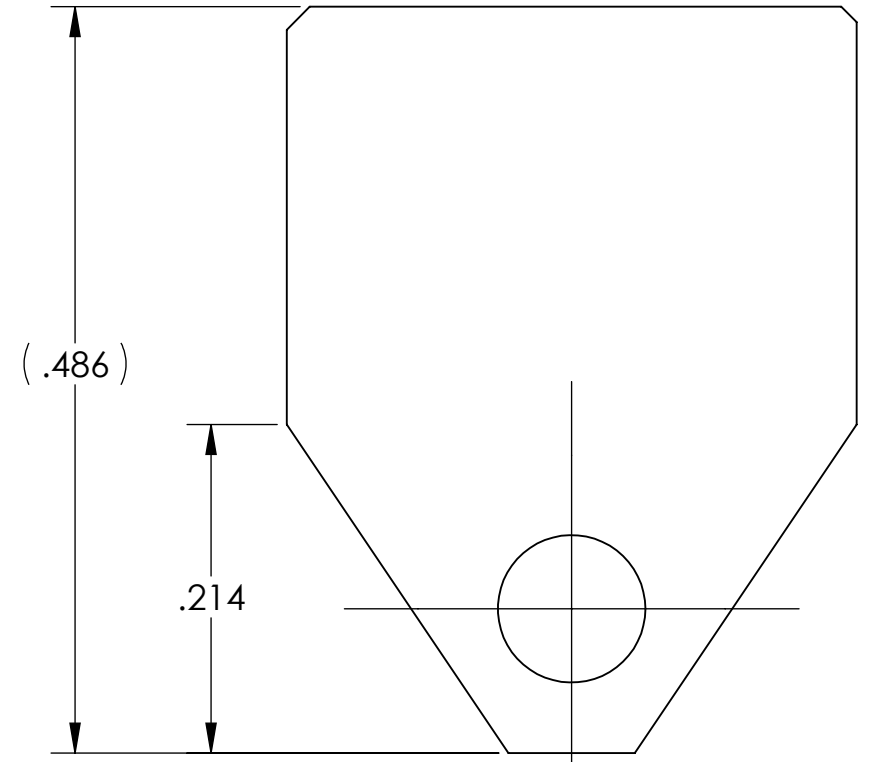
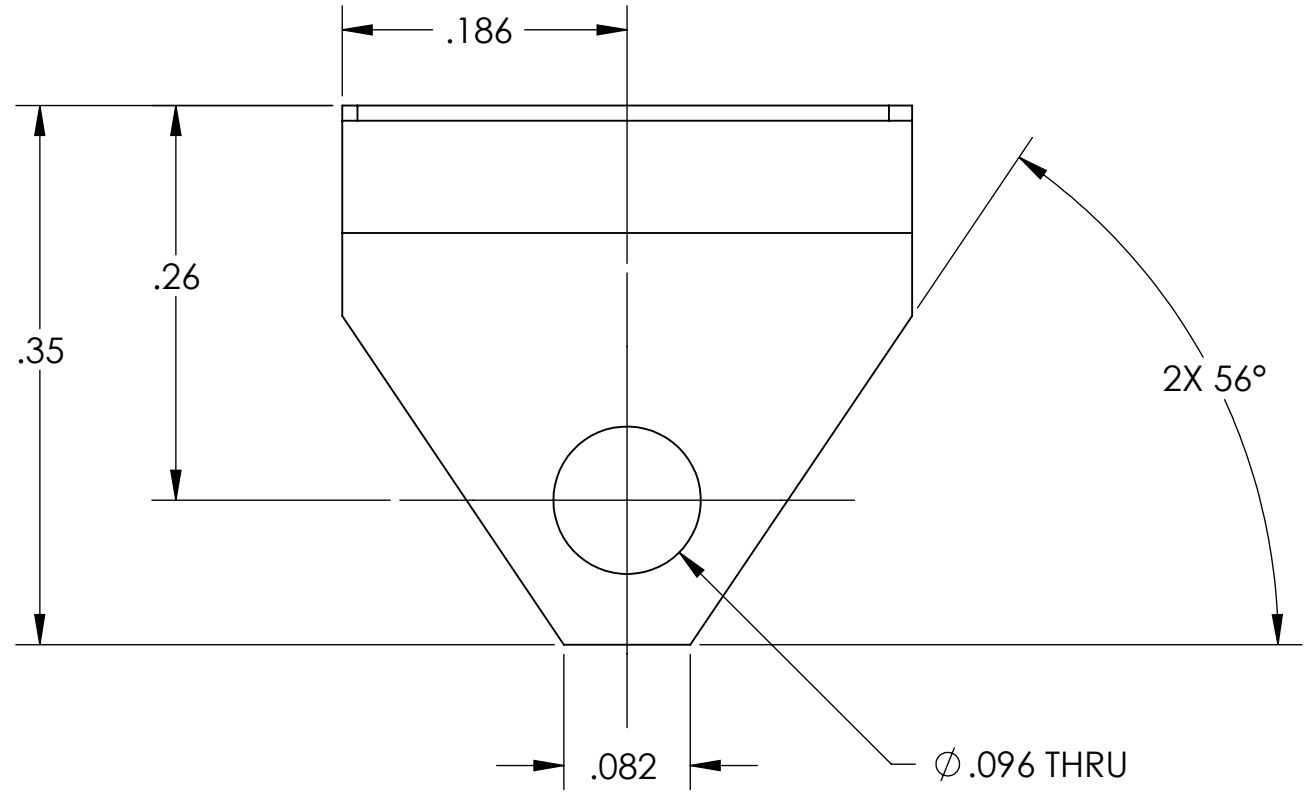
NOTES CONTINUED:
 5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.
 EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

REV.	DATE	DCN #	DRAWING TREE #
v1	06 JAN 2011	E1000563	-
-	-	-	-
-	-	-	-

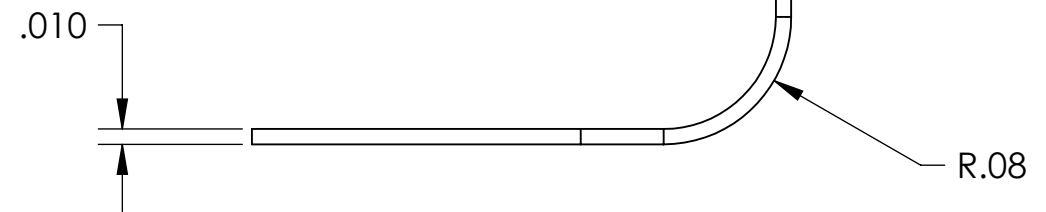
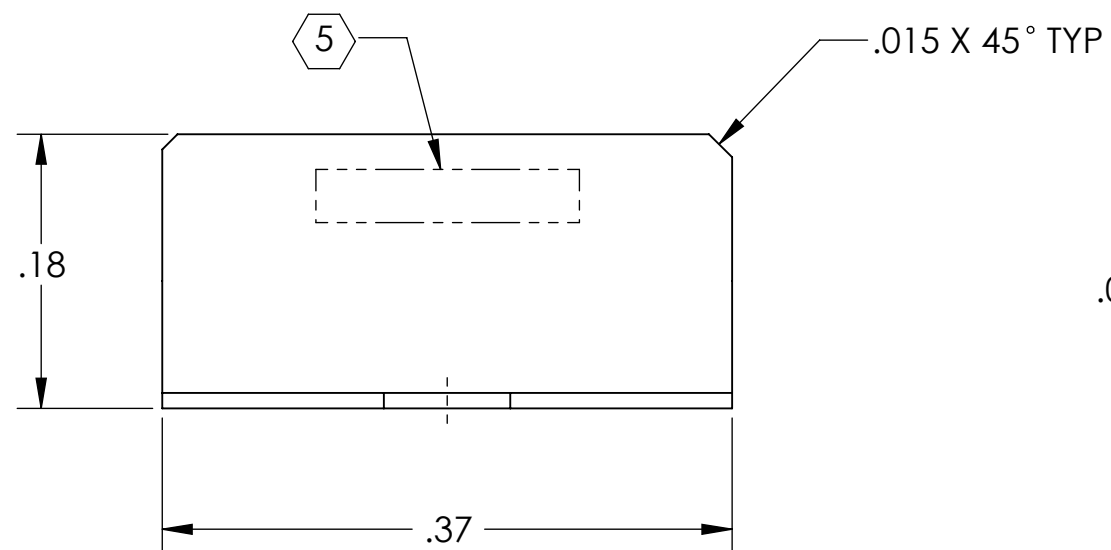
6. APPROXIMATE WEIGHT = 0.0004 LB.
 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
 8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.



GENERAL VIEW FOR REFERENCE ONLY NO SCALE



FLAT PATTERN



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES

TOLERANCES:
 .XX ± .01
 .XXX ± .005
 ANGULAR ± 0.5°

1. INTERPRET DRAWING PER ASME Y14.5-1994.
 2. REMOVE ALL SHARP EDGES, R.02 MIN.
 3. DO NOT SCALE FROM DRAWING.
 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

MATERIAL	304 SSSL	FINISH	63 μinch
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CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME		CLIP	
SYSTEM	ADVANCED LIGO	SUB-SYSTEM	AOS	DESIGNER	N. KILPATRICK 06 JAN 2011
NEXT ASSY	D0900614 D0900615 D1002364	CHECKER		DRFTR	N. KILPATRICK 06 JAN 2011
				APPROVAL	
			SIZE	DWG. NO.	REV.
			B	D1100027	v1
			SCALE: 8:1	PROJECTION:	SHEET 1 OF 1

D1100027_clIGO_AOS_D0900614_Faraday Isolator CLIP, PART PDM REV: X-009, DRAWING PDM REV:

DOCUMENT CHANGE NOTICE (DCN):- Manufacture OUTPUT FARADAY ISOLATOR

(1) DCN No. E1000563-v2

(2) Documents Affected

DOCUMENT No.	TITLE
D0900136	FARADAY ISOLATOR ASSEMBLY-V1
D0900655	STRUCTURAL WELDMENT ASSY, OMC-V1
D0900048	MAGNET HOLDER ASSEMBLY-V1
D0900026	MAGNET MOUNTING PLATE-V2
D0901569	MAGNET PLATE MOUNTING FRONT BRACKET-V1
D0901570	MAGNETIC PLATE MOUNTING BACK BRACKET-V1
D1002112	MAGNETIC PLATE MOUNTING BACK (LOWERED) BRACKET-V1
D0900027	COPPER PLATE-V2
D0900579	BLADE GUARD ASSEMBLY-V1
D0901271	BLADE GUARD CROSSPIECE-V3
D0900578	BLADE GUARD RISER-V1
D0900623	FARADAY ISOLATOR TABLE ASSEMBLY-V1
D0900015	FARADAY ISOLATOR TABLE-V2
D1001958	WIRE SUPPORT BLOCK ASSEMBLY-V1
D1001960	WIRE SUPPORT BLOCK-V1
D0900464	ROTATOR 20mm 1064nm-VAC COMPATIBLE
D0900615	PRISM MOUNT ASSEMBLY RH-V2
D0900620	PRISM MOUNT BASE RH-V2
D1001859	FIXED STOP RH-V1
D0900617	OPTICAL PRISM-V1
D1001864	PRISM BEAM DUMP-V1
D1001862	PRISM BASE SUPPORT-V2
D1001860	SPRING BLOCK RH-V1
D1001861	U-SPRING-V1
D0900618	OPTICAL PRISM TOP PLATE-V1
D0900619	CLIP-V1
D1001918	INPUT BAFFLE ASSEMBLY-V2
D1001920	INPUT BAFFLE BEAM DUMP-V1
D1001915	INPUT BAFFLE HOLDER-V2
D1001917	INPUT BAFFLE BASE-V1
D1001916	INPUT BAFFLE SIDE SUPPORT-V1
D1001924	C-MOUNT RETICLE-V1
D1001919	BEAM DUMP MOUNTING CLAMP-V1
D0900614	PRISM MOUNT ASSEMBLY LH-V2
D0900616	PRISM MOUNT BASE LH-V2
D1001862	PRISM BASE SUPPORT-V1
D1001864	PRISM BEAM DUMP-V1
D1001870	FIXED STOP LH-V1
D1001871	SPRING BLOCK LH-V1
D0900353	HALF WAVE PLATE HOLDER ASSEMBLY-V2
D0900352	HALF WAVE PLATE HOLDER-V2
D0900440	TFP POLARIZER PLATE ASSEMBLY-V1
D0900439	TFP POLARIZER PLATE-V1
D1001919	BEAM DUMP MOUNTING CLAMP-V1
D1001963	OUTPUT ALIGNMENT FIXTURE ASSEMBLY-V1

D1001959	RETICLE HOLDER-V1
D1001961	OUTPUT ALIGNMENT FIXTURE BASE-V1
D1001962	OUTPUT ALIGNMENT FIXTURE SUPPORT-V1
D1001924	C-MOUNT RETICLE-V1
D0900778	MAGNET ATTACHMENT PLATE-V2
D1002520	TABLE BALANCE WEIGHT, Add on-V1
D1002364	FARADAY ISOLATOR BEAM DUMP ASSEMBLY-V2
D1002363	FARADAY ISOLATOR BEAM DUMP-V1
D1002362	FARADAY ISOLATOR BEAM DUMP MOUNT-V2
D0902845	REFLECTION BAFFLE-V2
D1002256	EARTHQUAKE CROSSBAR IN ASSEMBLY-V1
D1002257	CROSSBAR PLATE IN-V1
D0900169	CROSS SIDE-V2
D0900170	EARTHQUAKE CROSSBAR ASSEMBLY-V1
D0900168	CROSS PLATE-V2
D0901514	BLADE CLAMP PLATFORM--V1
D0900586	UPPER WIRE ASSEMBLY-V2
D0900541	F1 UPPER BLADE-V2
D1002168	MUSIC WIRE SPLIT CLAMP 3--V1
D1002169	MUSIC WIRE SPLIT CLAMP 4--V1
D1002170	LOWER MUSIC WIRE 2--V1
D0900582	MUSIC WIRE SPLIT CLAMP 1-V2
D0900583	MUSIC WIRE SPLIT CLAMP 2-V3
D0900588	WIRE ADJUSTABLE ADAPTER-V2
D0900566	UP BLADE CLAMP TOP-V2
D1100027	CLIP
D1100019	HALF WAVE QUARTZ HOLDER-V1
D1100020	HALF WAVE QUARTZ NUT-V1
D1100029	HALF WAVE QUARTZ ASSY-V1
D1100030	HALF WAVE QUARTZ SPACER-V1

(3) CHANGE DESCRIPTION (FROM / TO):-

D1002362 ZONES C4 & C7 DIMENSION CHANGE FROM: .19 TO .27, FROM .305 TO .228.
D1001915 ZONE C3 DIMENISON CHANGE FROM .125 TO .202.
D0900620 REVISED HOLE LOCATION FROM .305 TO .228
D0900619 NAME CORRECTION FROM SPRING CLIP TO CLIP
D0900615 MATERIAL CALLOUT FROM #12 WELDER'S GLASS TO A424 18GA, TYPE I
SSTL
D0900353 AND D0900352 CHANGE TO REVISION V2, DESIGN CHANGE
D0900583 DEEPER SLOT FROM .016 TO .040
DELETE D1001863
ADDED D1100027, D1100019, D1100020, D1100029, D1100030

(4) REASON FOR CHANGE:-

SEE (3).

(5) SIGNATURES REQUESTED:-

(6) DCN DISTRIBUTION: -

aLIGO_AOS