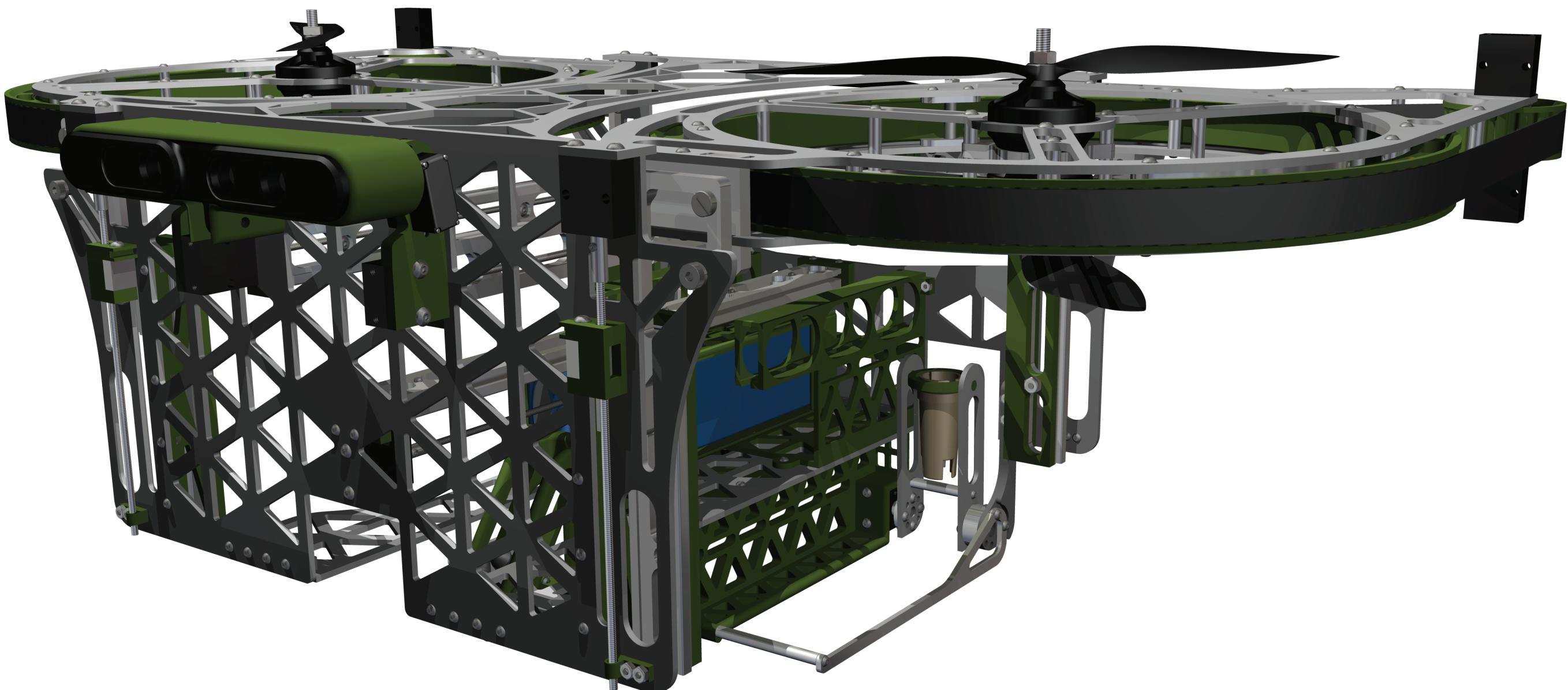


DELTA TECHNOLOGIES

TECHNICAL DATAPACKAGE

MERCURY

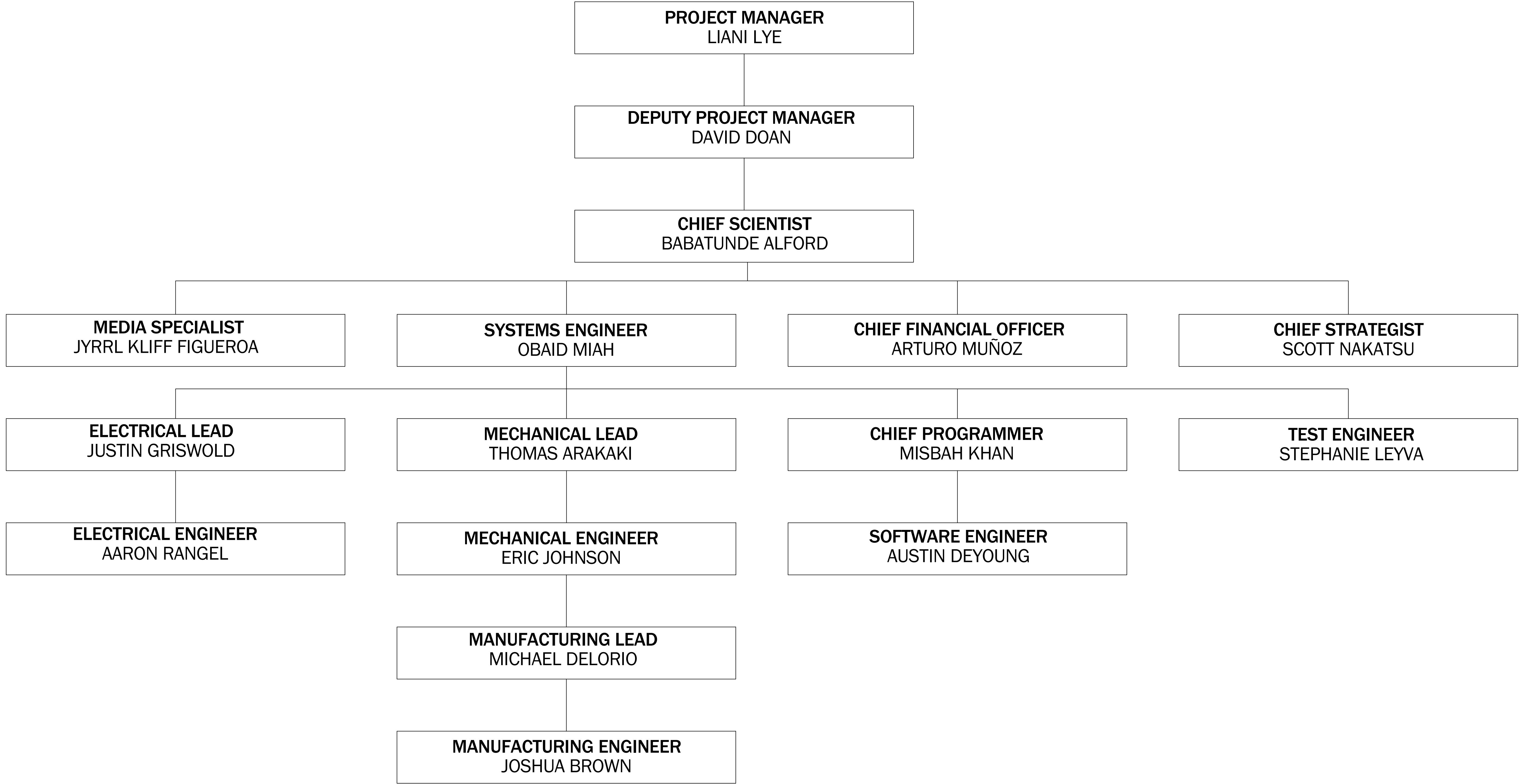


8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |

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8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |

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8 1 7 1 6 1 5 1 4 1 3 1 2 1 1

PROJECT MORPHEUS - MERCURY

SUBSYSTEM: SUPERSTRUCTURE

- ASSY, SUPERSTRUCTURE
 - IPT, SUPERSTRUCTURE, TOP
 - IPT, SUPERSTRUCTURE, BOTTOM
 - IPT, SUPERSTRUCTURE, FRONT
 - IPT, SUPERSTRUCTURE, REAR
 - IPT, SUPERSTRUCTURE, ELECTRONIC HOUSING
 - IPT, SUPERSTRUCTURE, RADAR PICKUP
 - IPT, SUPERSTRUCTURE, LAP JOINT ARM
 - IPT, SUPERSTRUCTURE, NUTSTRIP 2.5IN
 - IPT, SUPERSTRUCTURE, SKID(X2)
 - IPT, SUPERSTRUCTURE, SLIDER ATTACHMENT BRACKET
 - IPT, SUPERSTRUCTURE, HORIZONTAL SLIDER MOUNT
 - IPT, SUPERSTRUCTURE, HORIZONTAL SLIDER MOUNT MIDDLE
 - IPT, SUPERSTRUCTURE, HORIZONTAL SLIDE SUPPORT
 - IPT, SUPERSTRUCTURE, THREADED ROD SUPPORT
 - OTS, 500M GUIDE RAIL
 - OTS, 250M GUIDE RAIL
 - OTS, ELECTROMAGNET, 6-32
 - OTS, MICRO GEARMOTOR

SUBSYSTEM: SHROUDS

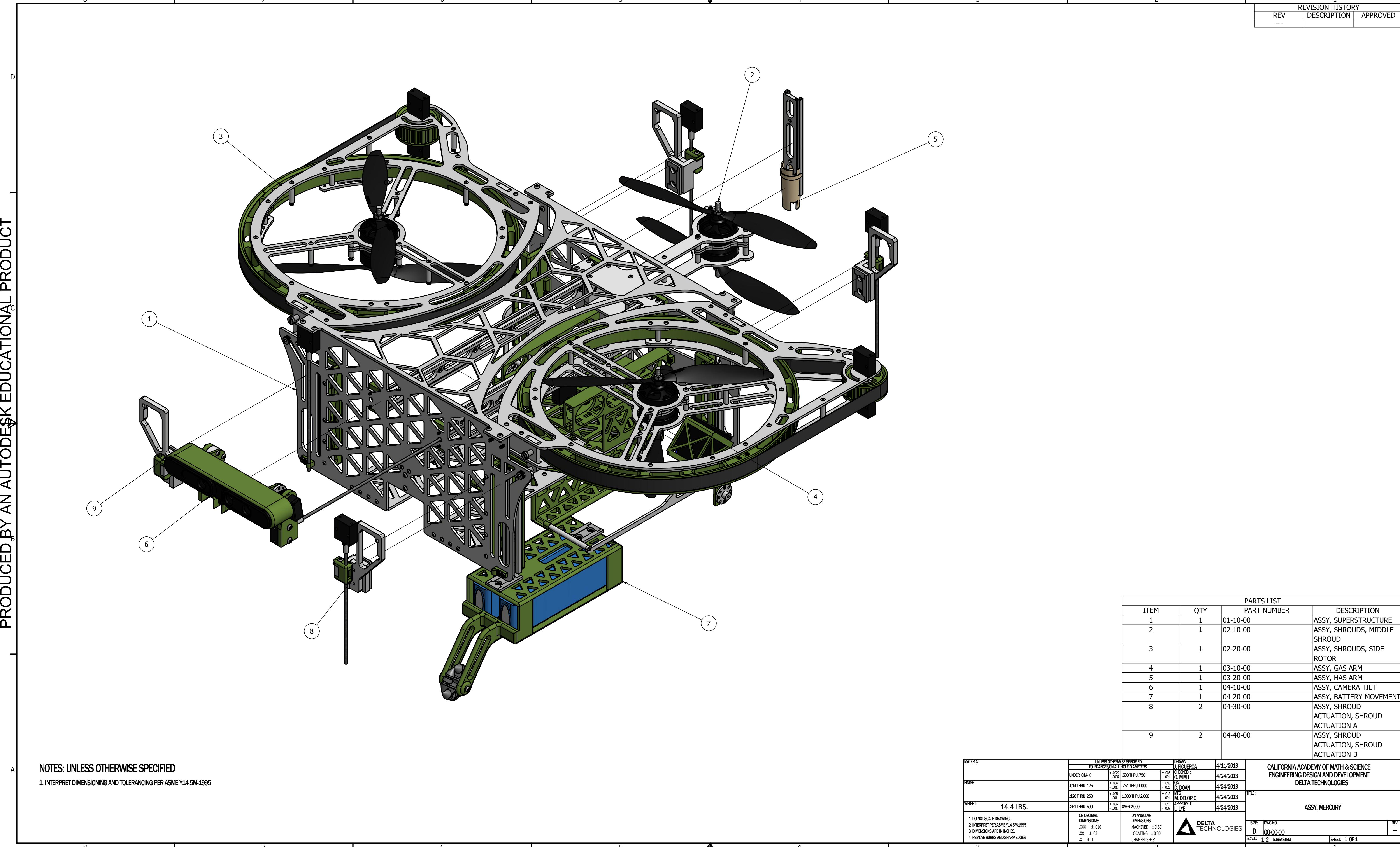
- ASSY, SHROUDS, MIDDLE SHROUD
 - IPT, SHROUDS, HORIZONTAL LEADScrew INSERT
 - IPT, SHROUDS, MIDDLE ROTOR SUPPORT PLATE
 - IPT, SHROUDS, MIDDLE ROTOR TOP SUPPORT PLATE
 - IPT, SHROUDS, MIDDLE SHROUD SLIDER MOUNT
 - IPT, SHROUDS, MOTOR MOUNT
 - OTS, 600 KV MOTOR
 - OTS, 11X4.7 PROPELLER
 - OTS, LOW-PROFILE CARRIAGE
- ASSY, SHROUDS, SIDE ROTOR
 - IPT, SHROUDS, IDLER PULLEY
 - IPT, SHROUDS, POWER PULLEY
 - IPT, SHROUDS, SIDE ROTOR SUPPORT PLATE
 - IPT, SHROUDS, TOP AXLE PLATE
 - IPT, SHROUDS, AXLE
 - IPT, SHROUDS, BOTTOM AXLE PLATE
 - IPT, SHROUDS, HINGE ARM
 - ASSY, SHROUDS, WHEEL RIM
 - IPT, SHROUD, WHEEL RIM, HUB WHEEL INNER
 - OTS, 600 KV MOTOR
 - OTS, 11X4.7 PROPELLER
 - OTS, MICRO GEARMOTOR
 - OTS, SET SCREW HUB

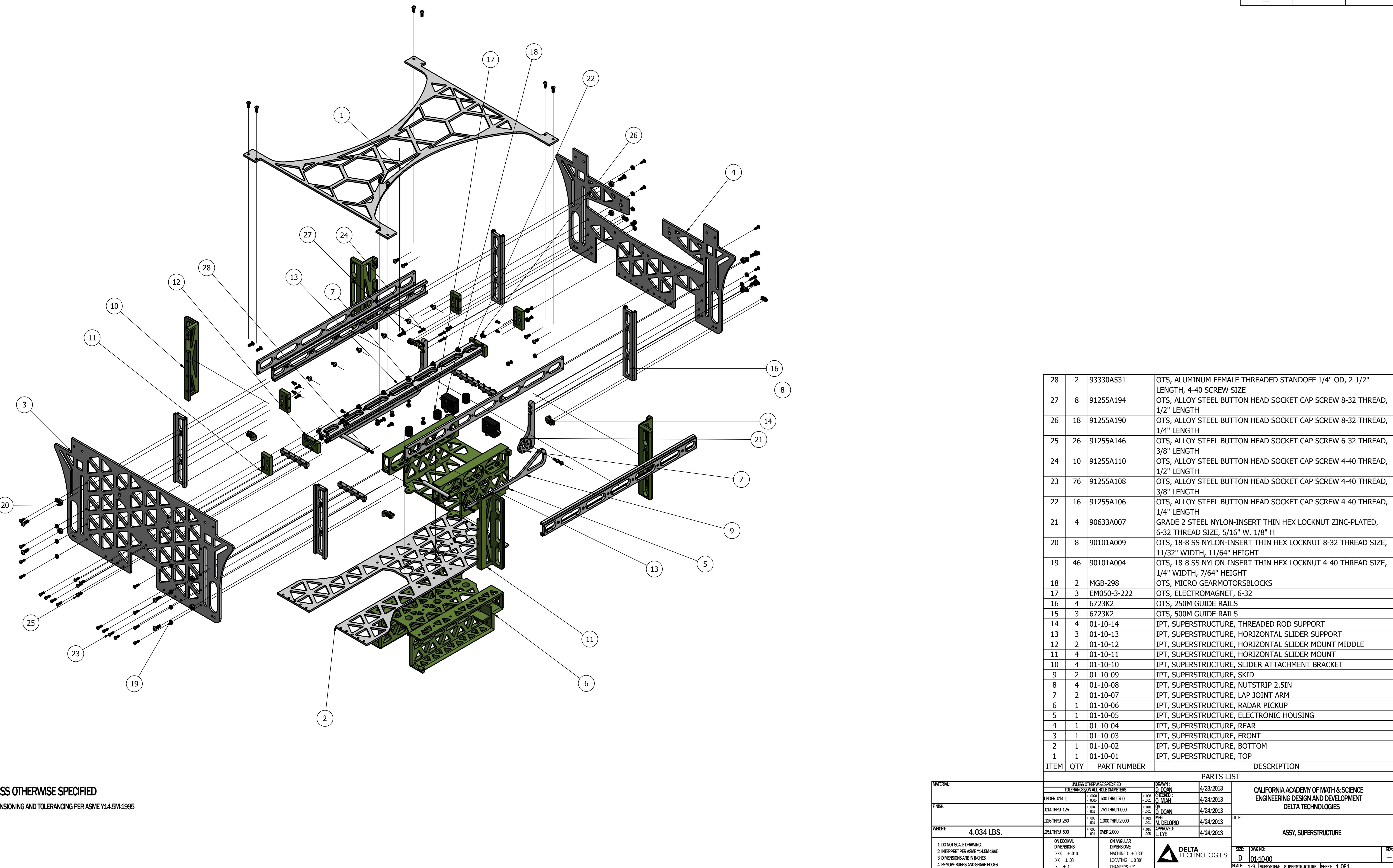
SUBSYSTEM: GAS/HAS ARMS

- ASSY, GAS ARM
 - IPT, GAS ARM, SENSOR BRACKET
 - OTS, SET SCREW HUB
 - OTS, PROXIMITY SENSOR
- ASSY, HAS ARM
 - IPT, HAS ARM, PLATE
 - IPT, HAS SENSOR MOUNT
 - OTS, SET SCREW HUB
 - OTS, SWIVEL HUB
 - OTS, PPM SENSOR

SUBSYSTEM: ACTUATION

- ASSY, CAMERA TILT
 - IPT, CAMERA TILT, ASUS MOUNT
 - IPT, CAMERA TILT MOUNTING PLATE A
 - IPT, CAMERA TILT MOVING PLATE B
 - OTS, SWIVEL HUB
 - OTS, LIGHTWEIGHT HUB HORN
 - OTS, ASUS XTION
 - OTS, MIGHTY MICRO MOTOR
- ASSY, BATTERY MOVEMENT
 - IPT, BATTERY MOVEMENT, BATTERY HOLDER
 - OTS, DAGU OMNI WHEEL
 - OTS, TURNIGY CASE
 - OTS, LOW-PROFILE CARRIAGE
- ASSY, SHROUD ACTUATION, SHROUD ACTUATION A
 - IPT, SHROUD ACTUATION, SLIDER MOUNT
 - IPT, SHROUD ACTUATION, SLIDER PLATE A
 - IPT, SHROUD ACTUATION, VERTICAL LEADScrew INSERT
 - OTS, LOW-PROFILE CARRIAGE
- ASSY, SHROUD ACTUATION, SHROUD ACTUATION B
 - IPT, SHROUD ACTUATION, SLIDER PLATE B

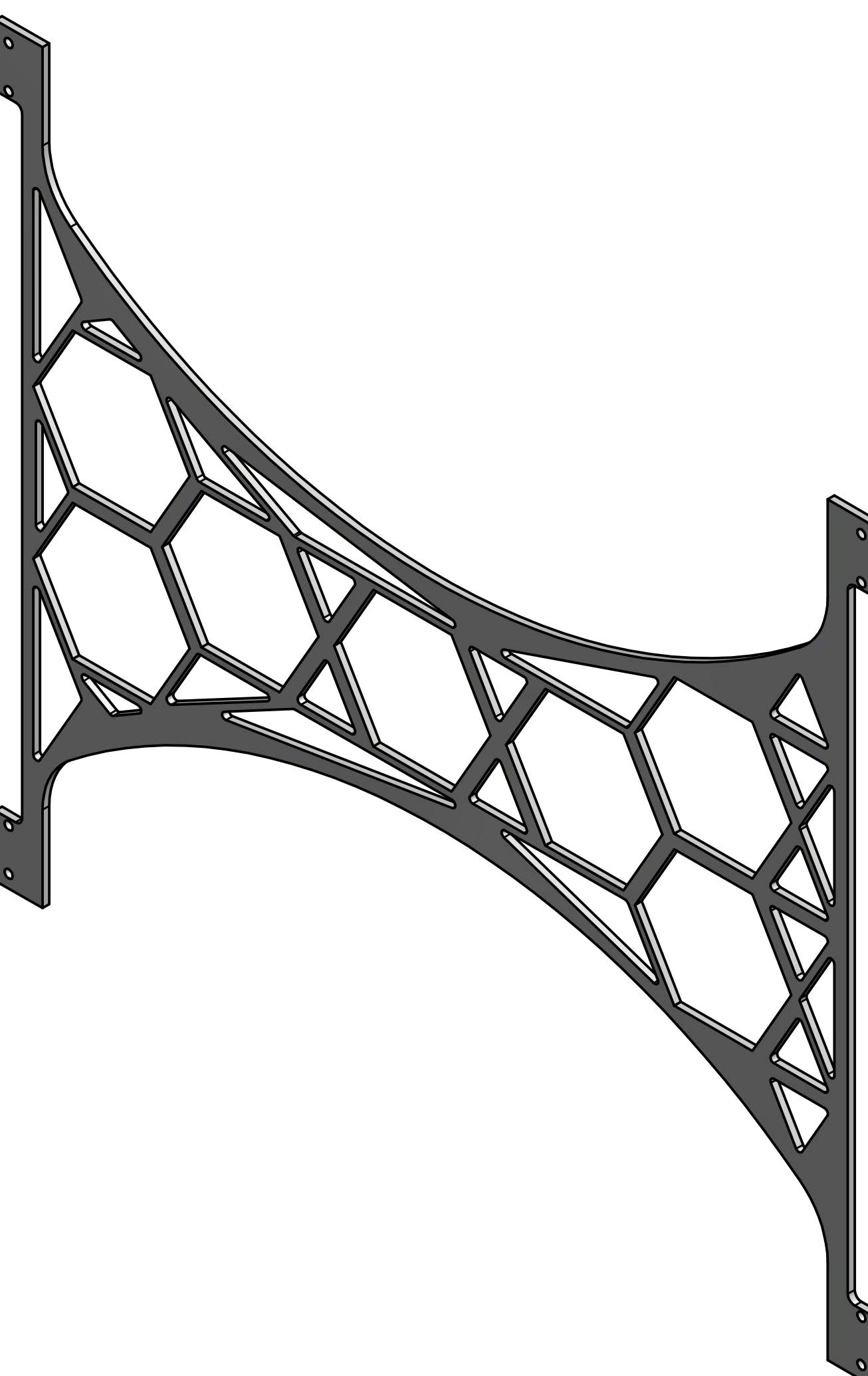
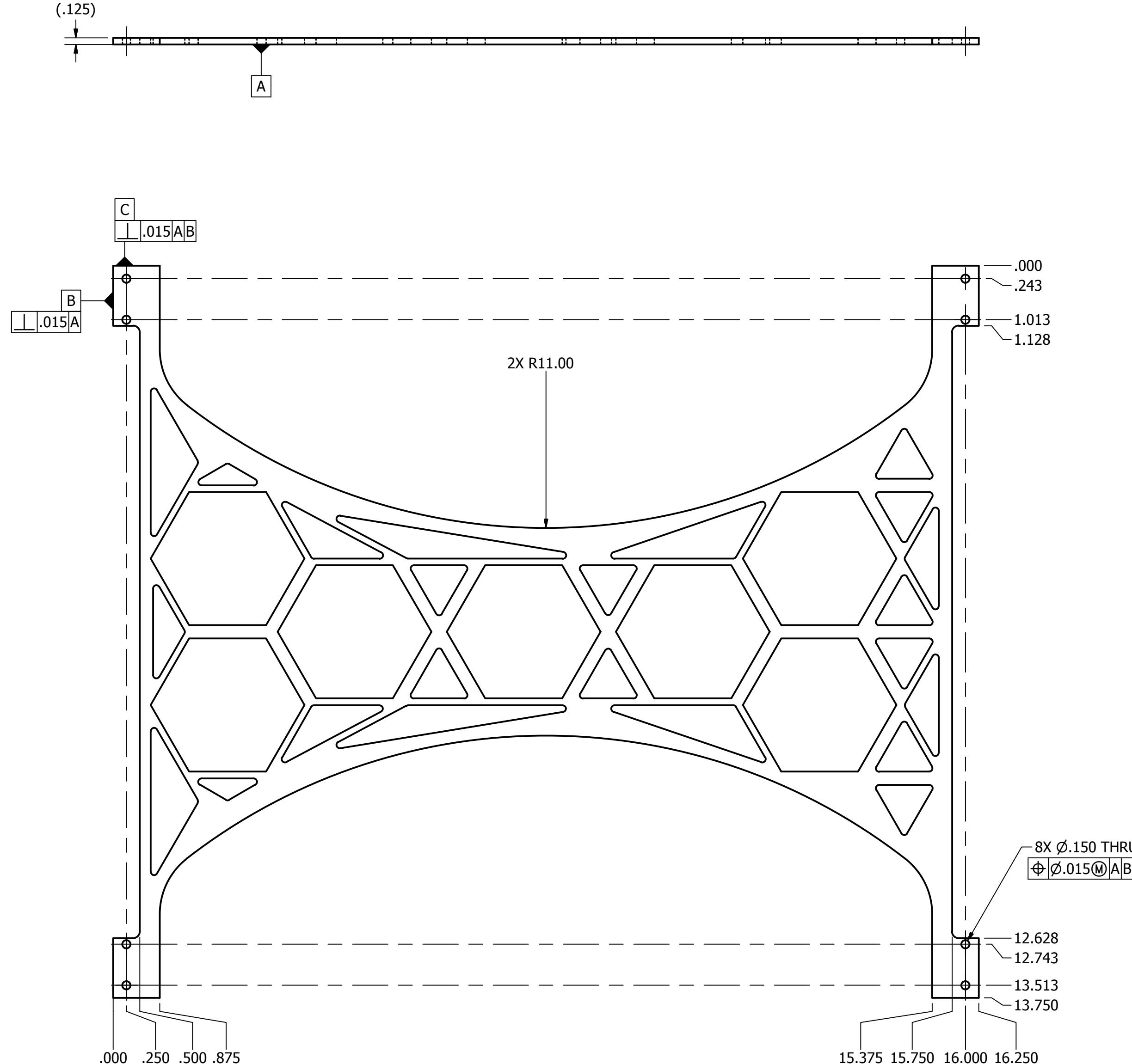




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REVISION HISTORY		
REV	DESCRIPTION	APPROVED
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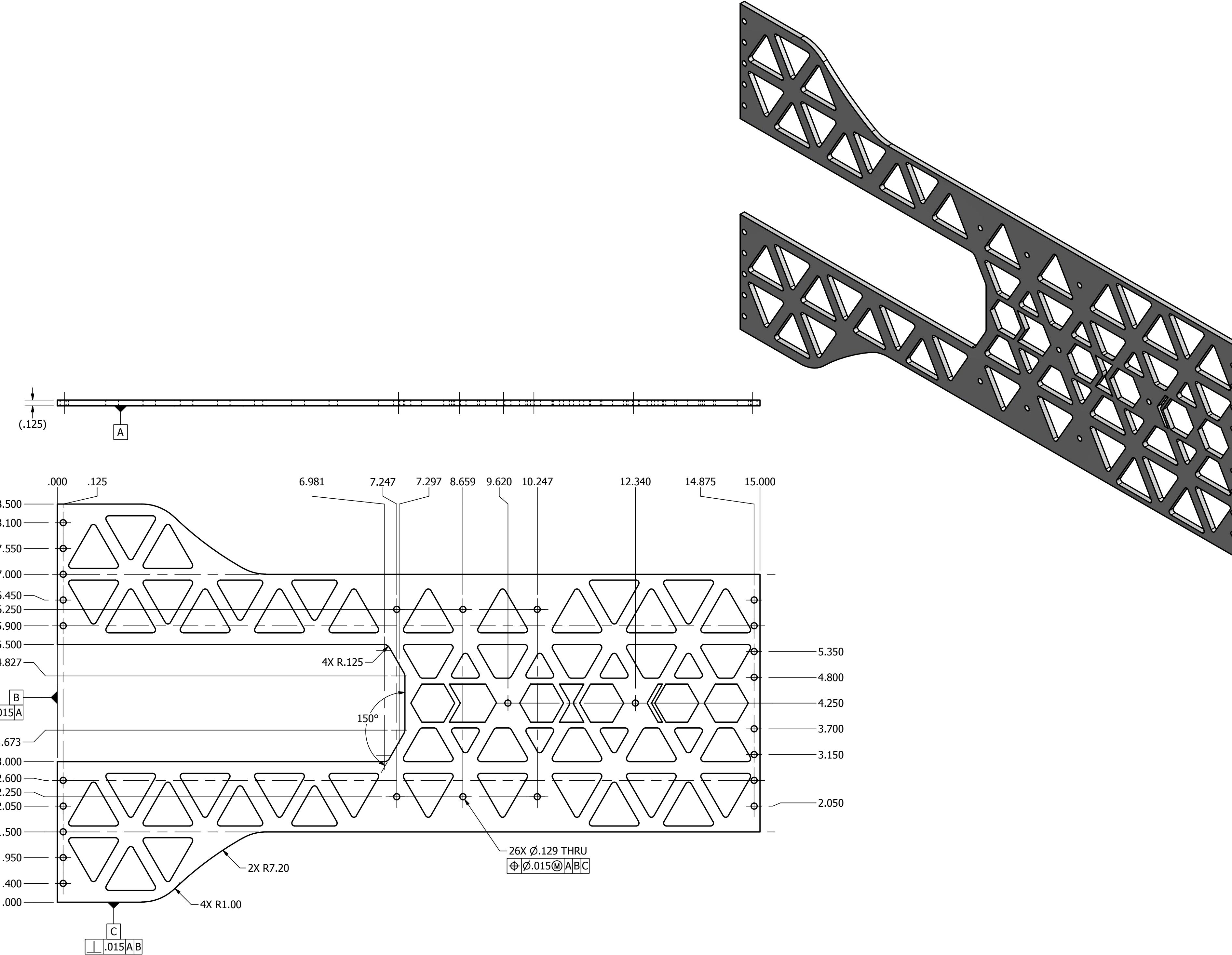
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NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM	QTY	PART NUMBER	TOP PLATE	DESCRIPTION	SPECIFICATION
MATERIAL:			UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN : D. DOAN 4/11/2013	
FINISH:		ALUMINUM COMPOSITE	UNDER .014 .0 +.000 -.005 500 THRU 750	CHECKED : J. FIGUEROA 4/23/2013	
WEIGHT:			.014 THRU .125 +.000 -.001 750 THRU 1,000	DOOR : D. DOAN 4/23/2013	
			.126 THRU .250 +.006 -.004 1,000 THRU 2,000	MPG : M. DELORIO 4/23/2013	
			251 THRU 500 +.006 -.004 OVER 2,000	APPROVED : L. LYE 4/23/2013	
1. DO NOT SCALE DRAWING. 2. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.			ON DIMAL DIMENS. XXX ±.010 XX ±.03 X ±.1	ON ANGULAR DIMENS. MACHINED ±.030° LOCATING ±.030° CHAMFERS ±.5°	SIZE : DWG NO : D 01-1001 REV : - TITLE : IPT, SUPERSTRUCTURE TOP CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

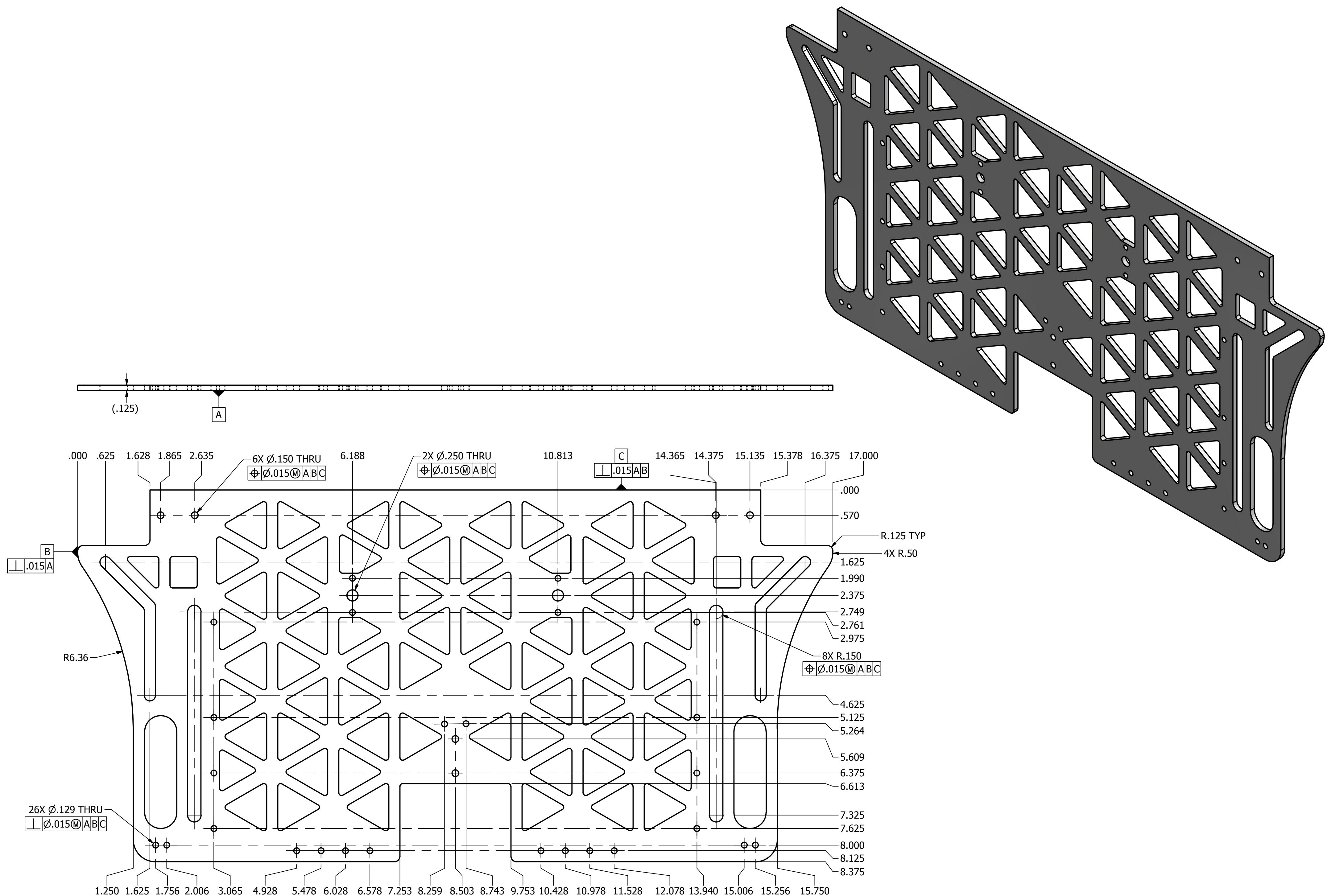


NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM QTY		PART NUMBER	DESCRIPTION			SPECIFICATION
MATERIAL:		ALUMINUM COMPOSITE	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN: D. DOAN 4/11/2013	CHECKED: J. MIAH 4/23/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES
FINISH:			UNDER .014 0 +.000 -.000 500 THRU 750 +.008 -.002			
			.014 THRU .125 -.001 750 THRU 1,000 +.005 -.003	D. DOAN 4/23/2013		
WEIGHT:	0.252 LBS.		.126 THRU .250 -.001 1,000 THRU 2,000 +.022 -.004	M. DELORIO 4/23/2013	APPROVED L. EYE 4/23/2013	
251 THRU 500 +.006 -.001 OVER 2,000 +.005 -.005			OVER 2,000 +.005 -.005			TITLE: IPT, SUPERSTRUCTURE, BOTTOM
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.			ON DIMAL DIMENS. XXX ±.010 XX ±.03 X ±.1	ON ANGULAR DIMENS. MACHINED ±.030° LOCATING ±.030° CHAMFERS ±.5°	APPROVED L. EYE 4/23/2013	REV: -
						SIZE: DWG NO: D 01-1002
						SCALE: 3:4 SUBSYSTEM: SUPERSTRUCTURE SHEET: 1 OF 1

8 7 6 5 4 3 2 1
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 PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

REVISION HISTORY		
REV	DESCRIPTION	APPROVED
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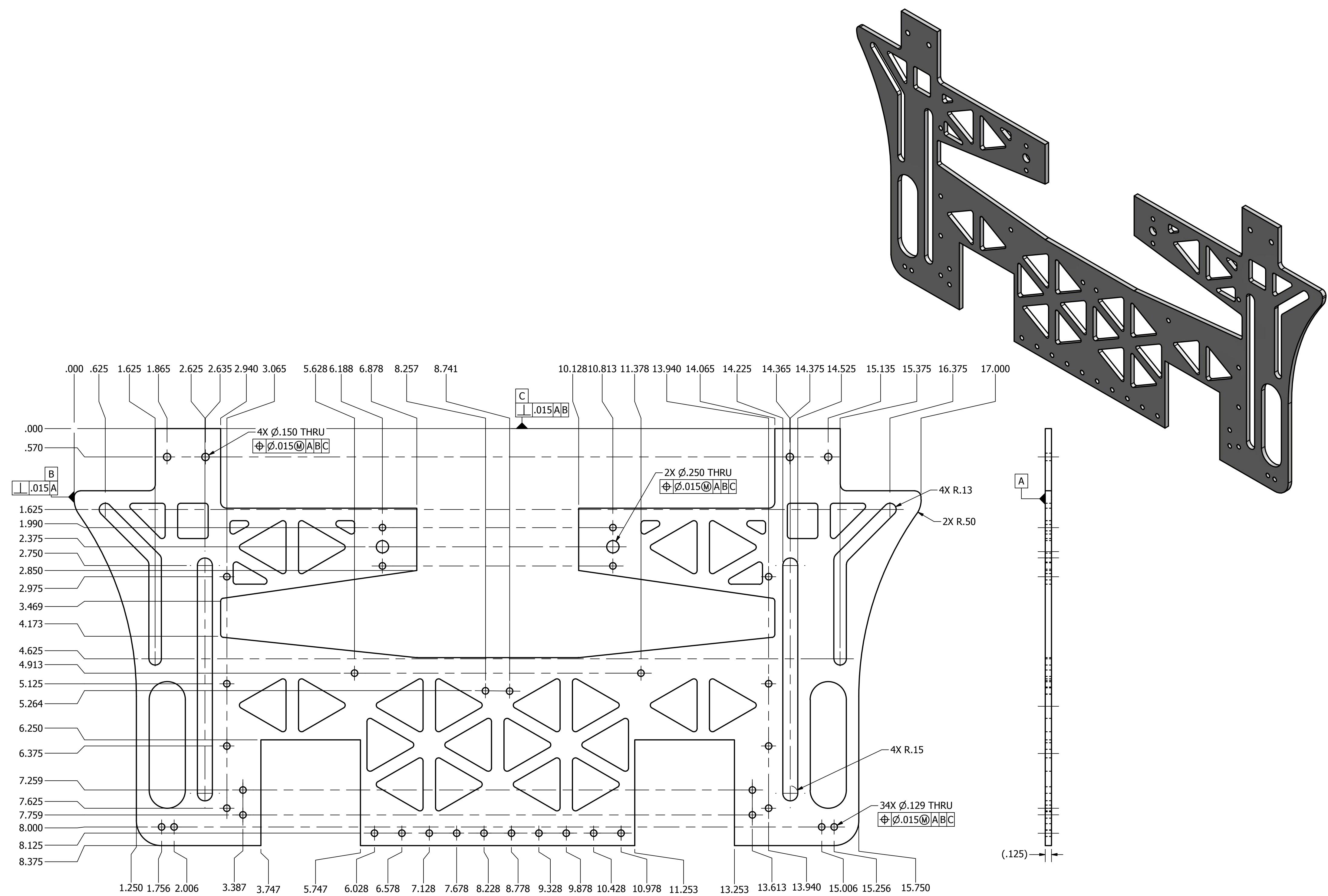


NOTES: UNLESS OTHERWISE SPECIFIED
 1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATION
MATERIAL:			UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN: D. DOAN 4/11/2013
		ALUMINUM COMPOSITE	UNDER .014 .000 .005 500 THRU .750	CHECKED: J. MIAH 4/24/2013
FINISH:			.014 THRU 1.25 -.001 .005 .750 THRU 1.000	DOOR: D. DOAN 4/24/2013
WEIGHT:		0.489 LBS.	.126 THRU .250 -.001 .005 1.000 THRU 2.000	MPG: M. DELORIO 4/24/2013
			251 THRU 500 -.006 .006 OVER 2.000	APPROVED: L. LYE 4/24/2013
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: XXX ± .010 XX ± .03 X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± .03° LOCATING ± .03° CHAMFERS ± .5°	SIZE: DWG NO: D 01-1003 REV: - TITLE: IPT, SUPERSTRUCTURE, FRONT CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES SUBSYSTEM: SUPERSTRUCTURE SHEET: 1 OF 1

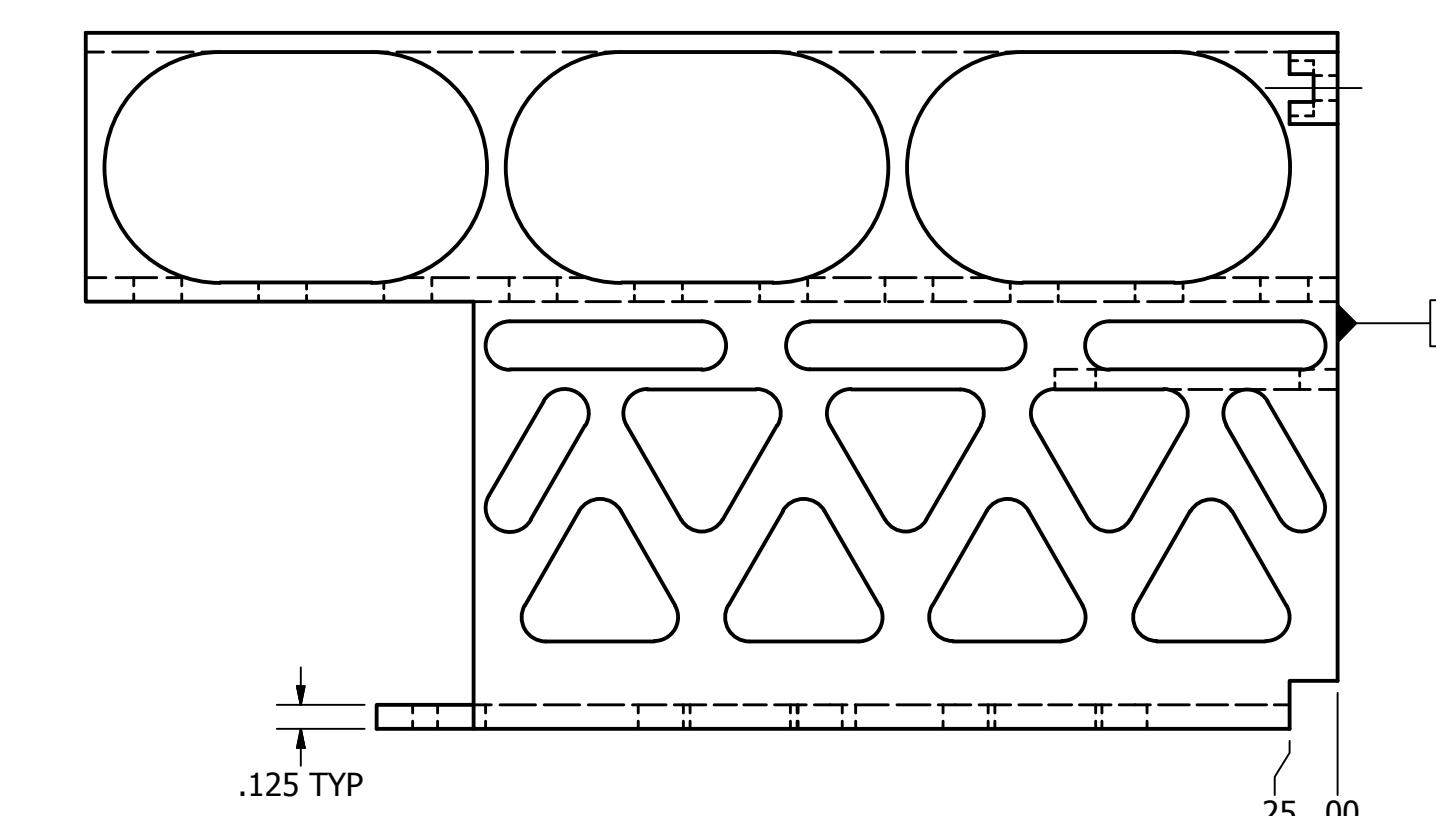
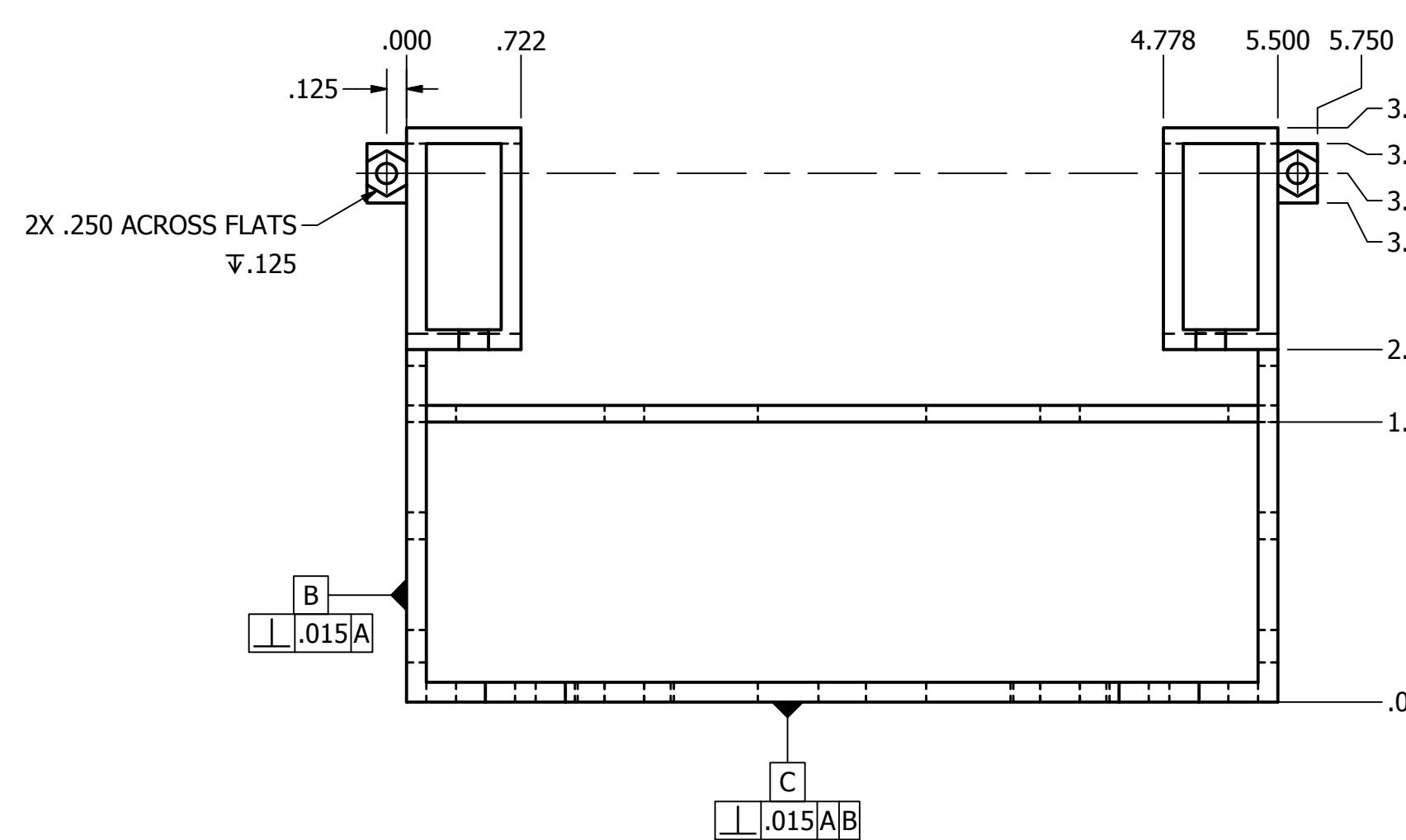
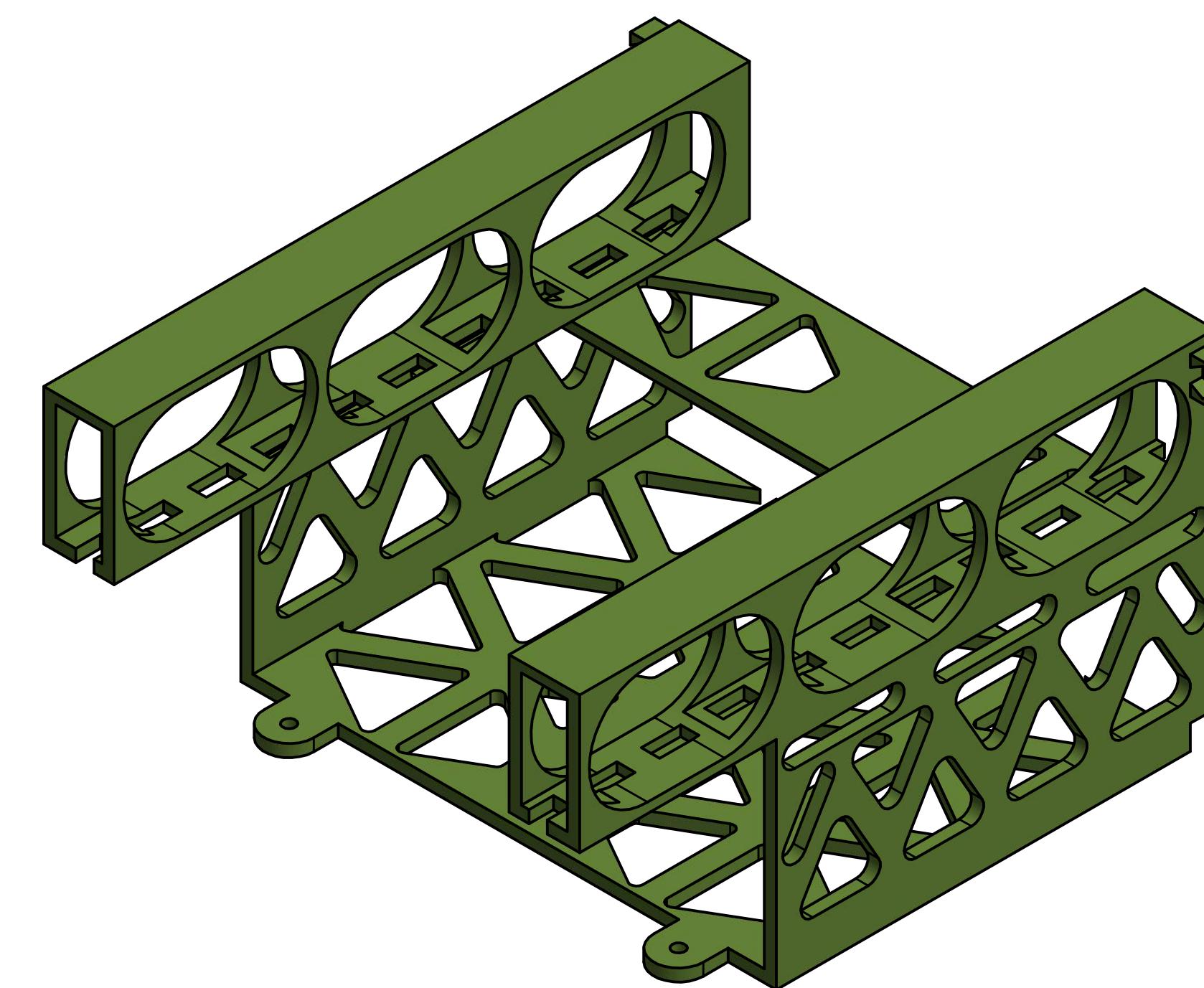
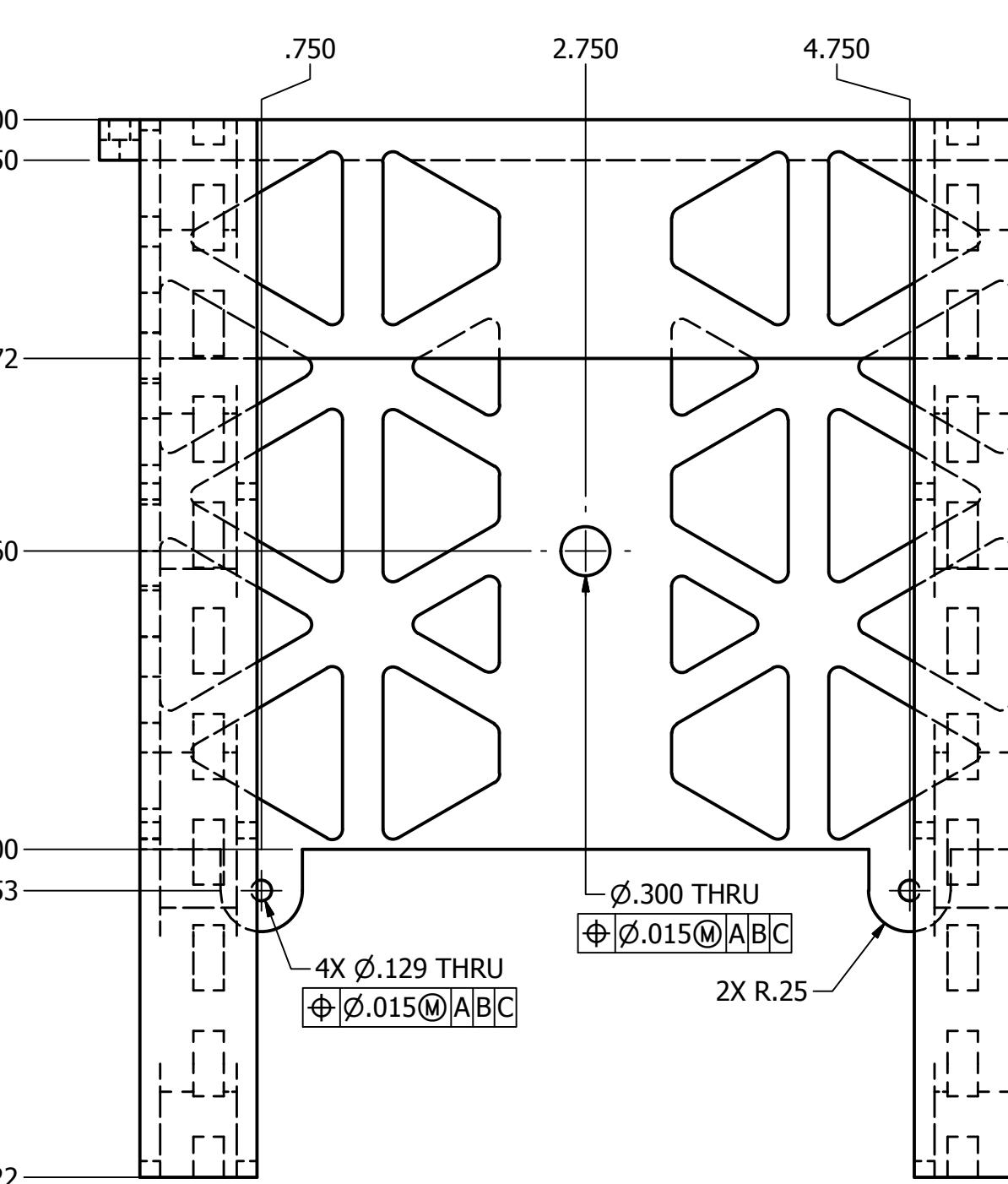
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REVISION HISTORY		
REV	DESCRIPTION	APPROVED
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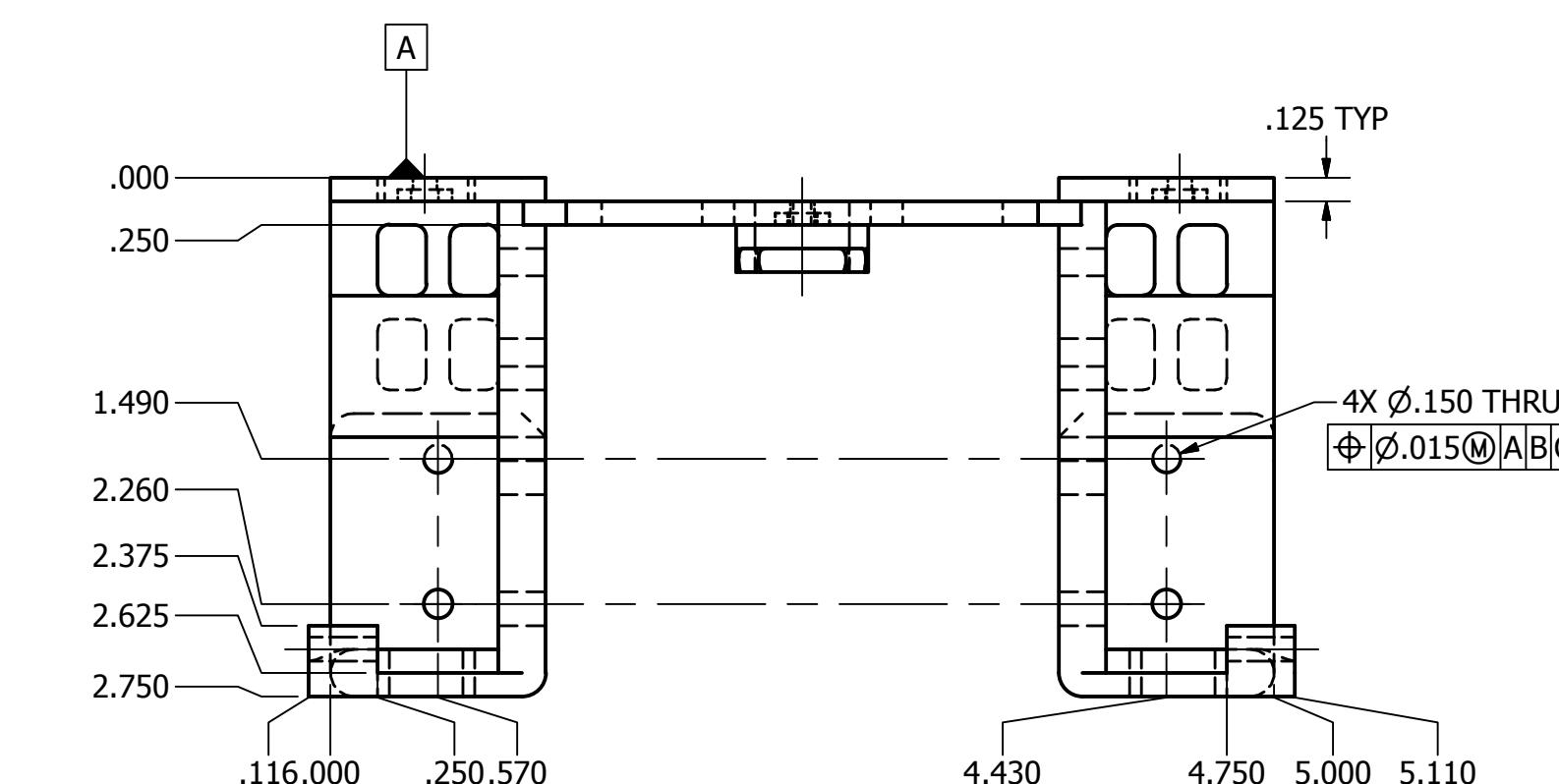
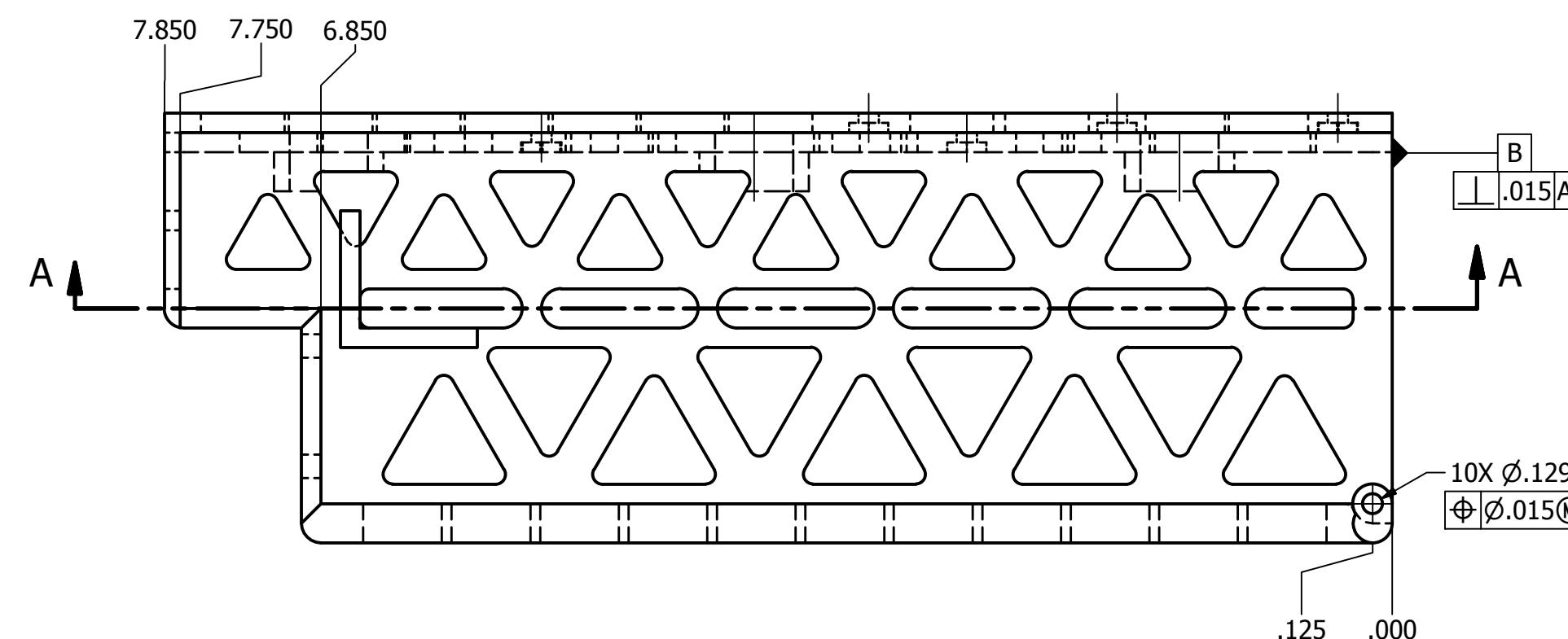
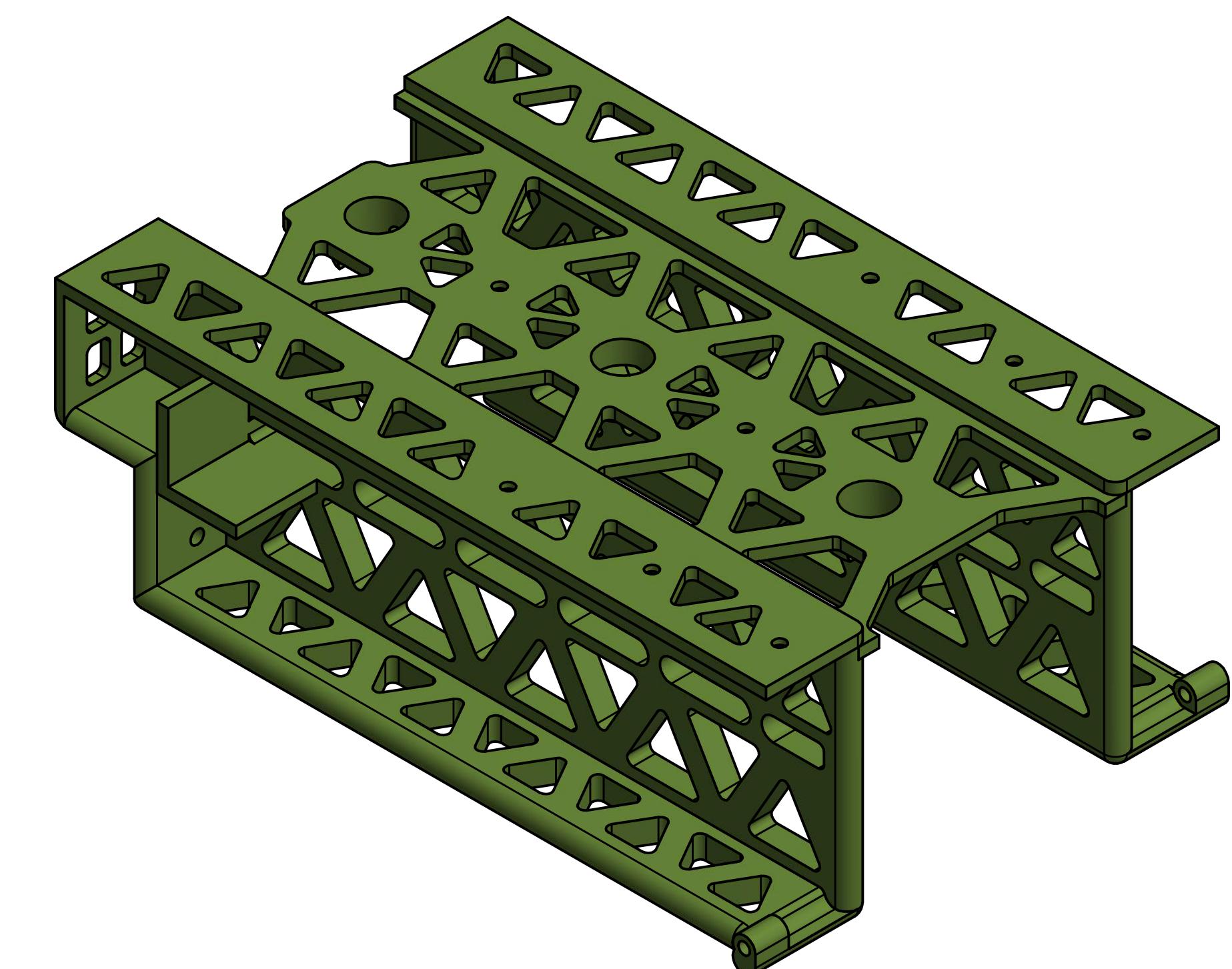
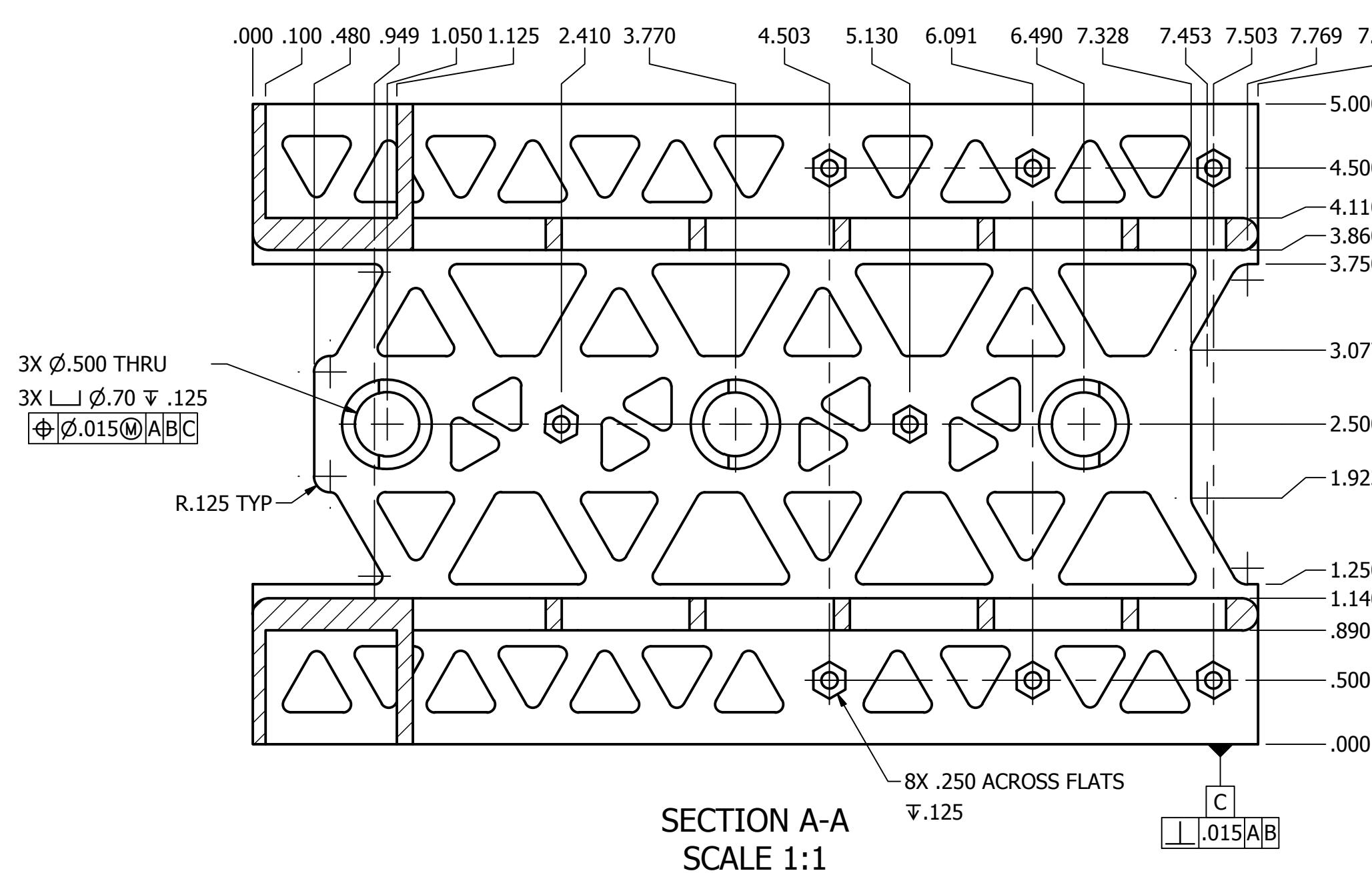
NOTES: UNLESS OTHERWISE SPECIFIED
 1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

4 1 01-10-04		REAR PLATE		SPECIFICATION
ITEM	QTY	PART NUMBER	DESCRIPTION	
MATERIAL:		ALUMINUM COMPOSITE	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN : D. DOAN 4/11/2013
FINISH:			UNDER Ø.014 0 +.000 - .000 500 THRU .750 +.008 -.002	CHECKED : J. MIAH 4/24/2013
WEIGHT:		0.398 LBS.	.014 THRU .125 -.001 .750 THRU 1.000 +.005 -.003	DOOR : D. DOAN 4/24/2013
			.126 THRU .250 -.001 1.000 THRU 2.000 +.022 -.002	MPG : M. DELORIO 4/24/2013
			251 THRU 500 +.006 -.001 OVER 2.000 +.015 -.005	APPROVED : L. LYE 4/24/2013
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: XXX ±.010 XX ±.03 X ±.1	ON ANGULAR DIMENSIONS: MACHINED ±.3° LOCATING ±.3° CHAMFERS ±.5°	SIZE: DWG NO: D 01-10-04 REV: - TITLE: IPT, SUPERSTRUCTURE, REAR CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES SUBSYSTEM: SUPERSTRUCTURE SHEET: 1 OF 1



NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

5 1 01-10-05		ELECTRICAL COMPONENT HOUSING			SPECIFICATION
ITEM	QTY	PART NUMBER	DESCRIPTION		
MATERIAL:		UNLESS OTHERWISE SPECIFIED ABS PLASTIC	DRAWN : TOLERANCES ON ALL HOLE DIAMETERS UNDER .014 .0 OVER .014 .005 .014 THRU .125 .005 .126 THRU .250 .005	CHECKED : D. DOAN 4/24/2013 M. DELORIO 4/24/2013 APPROVED : L. LYE 4/24/2013	
FINISH:			500 THRU .750 .750 THRU 1.000 1.000 THRU 2.000 OVER 2.000	4/24/2013 4/24/2013 4/24/2013 4/24/2013	
WEIGHT:	0.241 LBS.				
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DIMAL DIMENS. XXX ± .010 XX ± .03 X ± .1	ON ANGULAR DIMENS. MACHINED ± .03° LOCATING ± .03° CHAMFERS ± .5°		REV: -
					SIZE: DWG NO: D 01-10-05
					SCALE: 1:1 SUBSYSTEM: SUPERSTRUCTURE SHEET: 1 OF 1

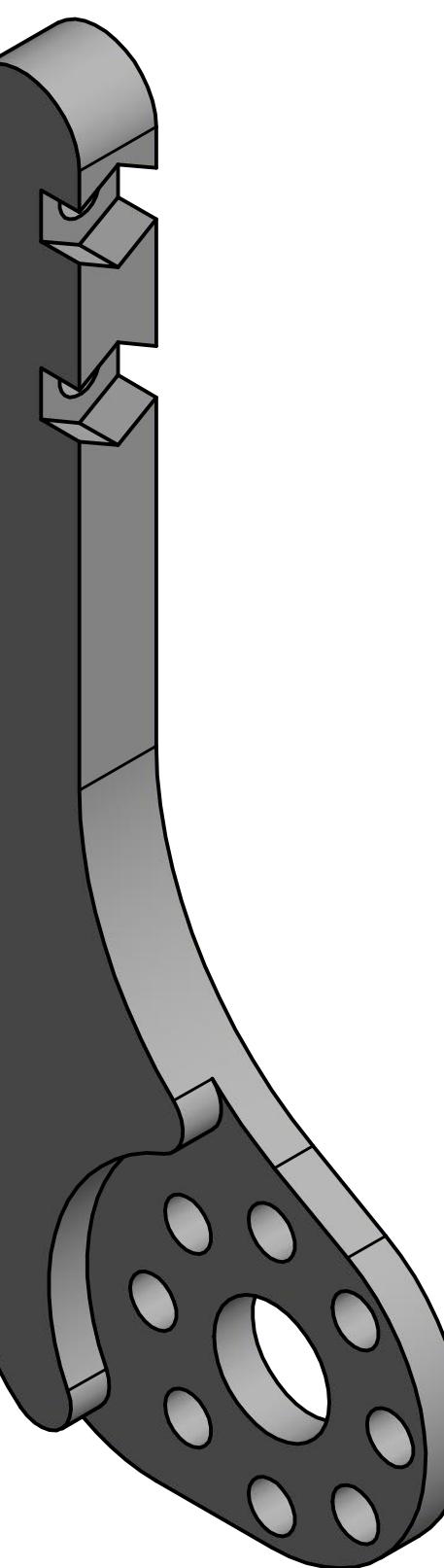
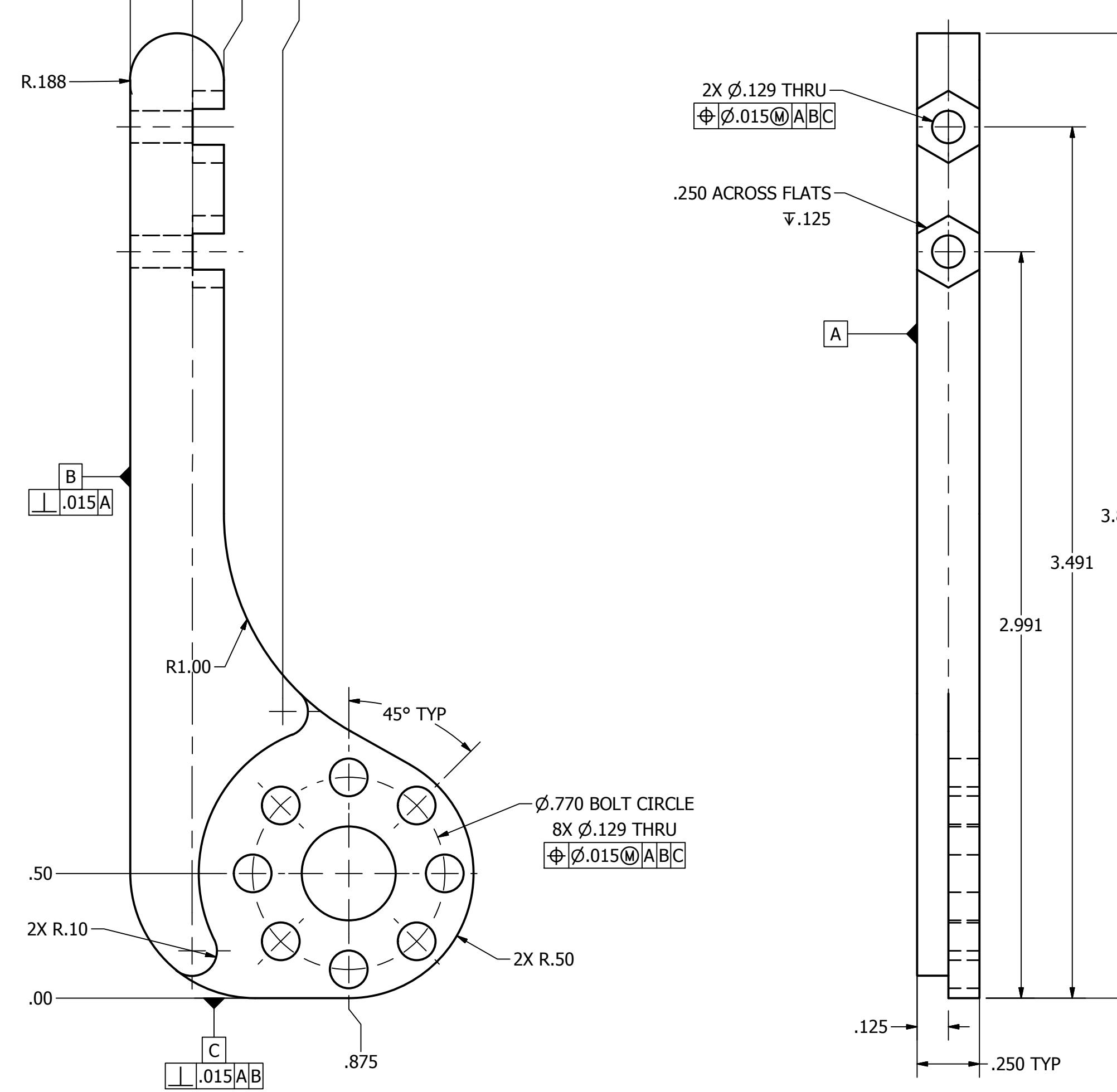


NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM	QTY	PART NUMBER	RADAR PICKUP			DESCRIPTION	SPECIFICATION
MATERIAL:			UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN: D. DOAN 4/11/2013	CHECKED: J. MIAH 4/24/2013		
		ABS PLASTIC	UNDER Ø.014 0 +.0000 -.0050 500 THRU 750 +.008 -.002				
FINISH:			Ø.014 THRU .125 +.001 -.001 755 THRU 1.000 +.005 -.003 D. DOAN 4/24/2013				
WEIGHT:		0.492 LBS.	.126 THRU .250 +.006 -.004 1.000 THRU 2.000 +.022 -.004 M. DELORIO 4/24/2013				
			251 THRU 500 +.006 -.004 OVER 2.000 +.025 -.005 APPROVED L. LYE 4/24/2013				
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.				ON DIMAL DIMENS. XXX ±.010 XX ±.03 X ±.1	ON ANGULAR DIMENS. MACHINED ±.03° LOCATING ±.03° CHAMFERS ±.5°		
CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES							
TITLE: IPT, SUPERSTRUCTURE, RADAR PICKUP							
SIZE: DWG NO: D 01-10-06 REV: -							
SCALE: 1:1 SUBSYSTEM: SUPERSTRUCTURE SHEET: 1 OF 1							

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NOTES: UNLESS OTHERWISE SPECIFIED

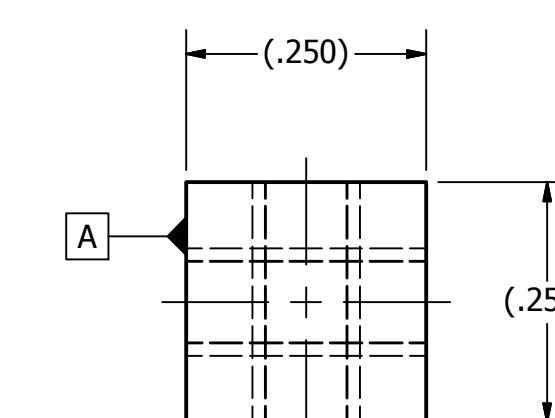
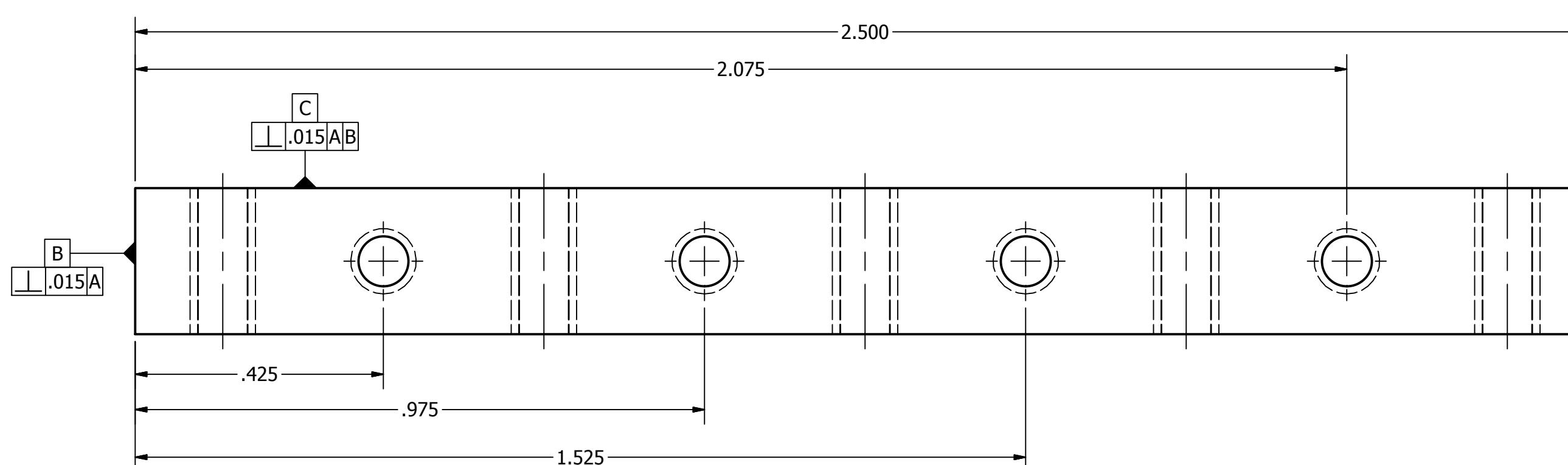
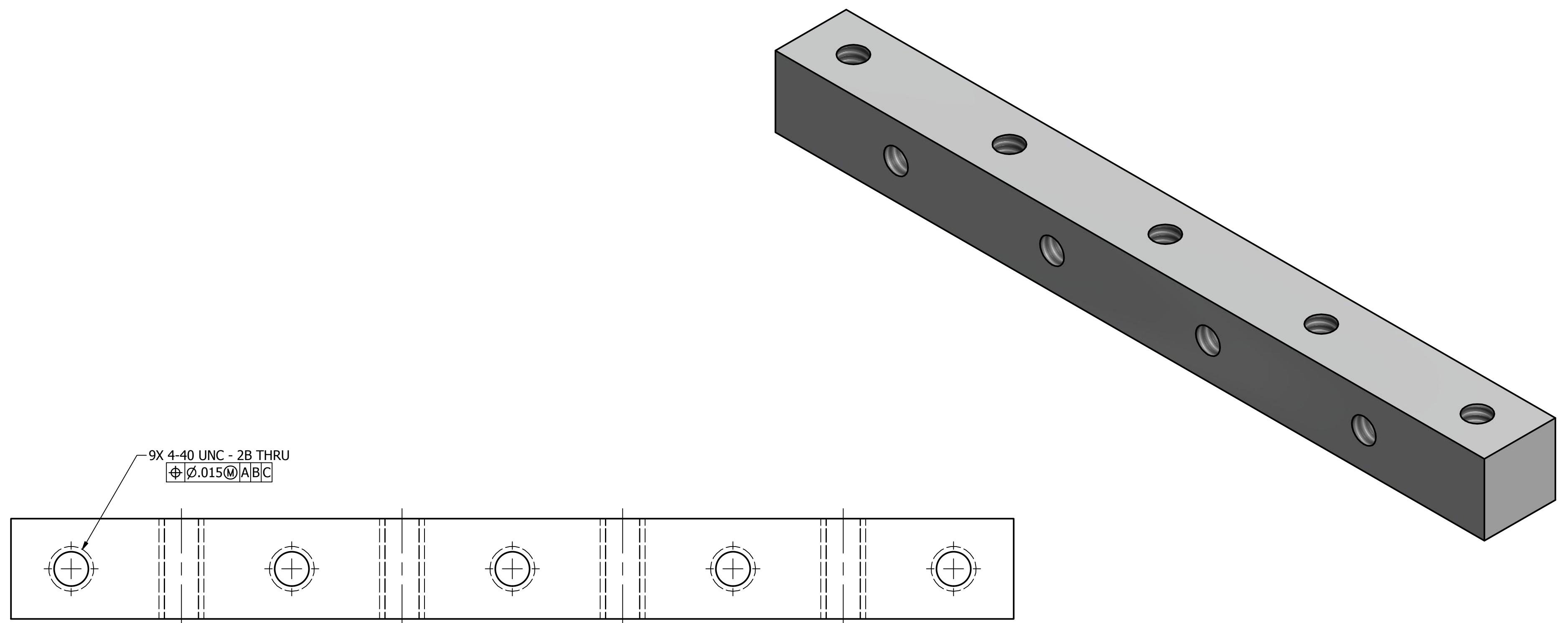
1 INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

7	2	01-10-07	LAP JOINT ARM						
ITEM	QTY	PART NUMBER		DESCRIPTION			SPECIFICATION		
MATERIAL: ABS PLASTIC		UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS			DRAWN : D. DOAN	4/11/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES		
		UNDER .014	0	.0020 .0005	.500 THRU .750	.008 .001	CHECKED : O. MIAH		
FINISH:		.014 THRU .125		.004 .001	.751 THRU 1.000	.010 .001	QA : D. DOAN		
		.126 THRU .250		.005 .001	1.000 THRU 2.000	.012 .001	MFG : M. DELORIO		
WEIGHT: 0.016 LBS.		.251 THRU .500		.006 .001	OVER 2.000	.015 .005	APPROVED: L. LYK		
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1		ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°		 DELTA TECHNOLOGIES		TITLE : IPT, SUPERSTRUCTURE, LAP JOINT ARM	
						SIZE : DWG NO : D 01-10-07			
						REV : —			
		SCALE : 7:3		SUBSYSTEM : SUPERSTRUCTURE		SHEET : 1 OF 1			

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REVISION HISTORY		
REV	DESCRIPTION	APPROVED
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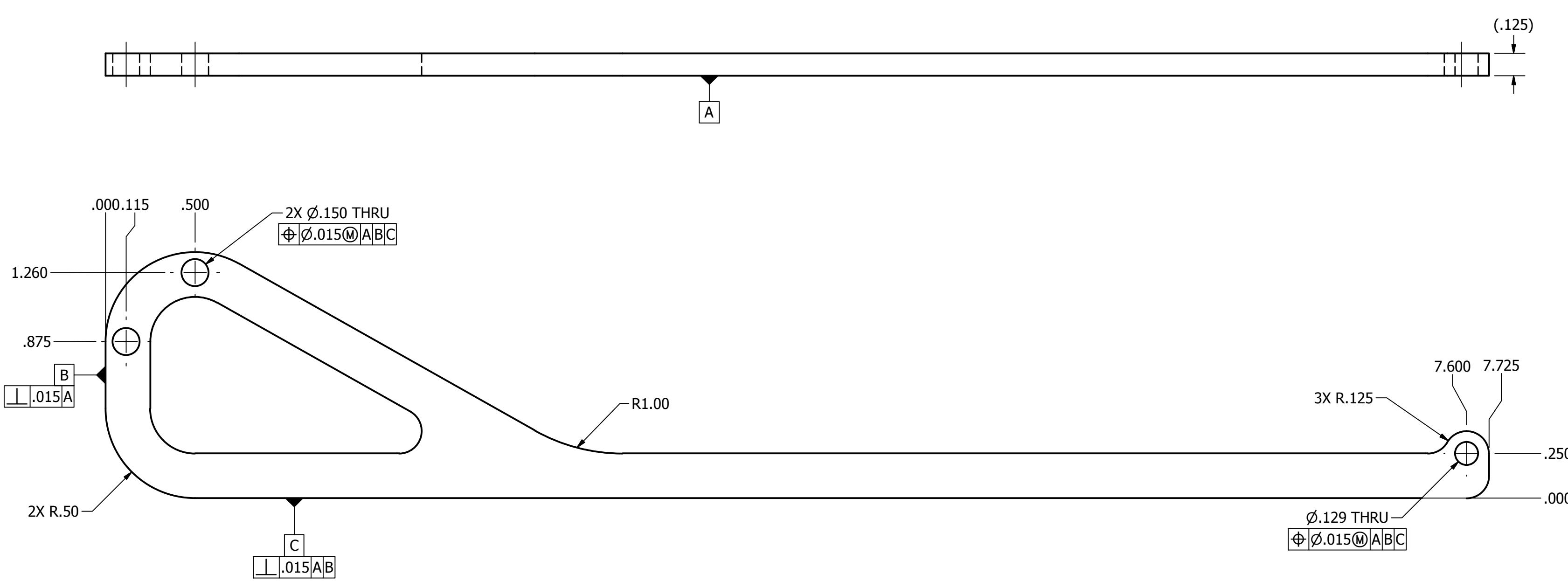
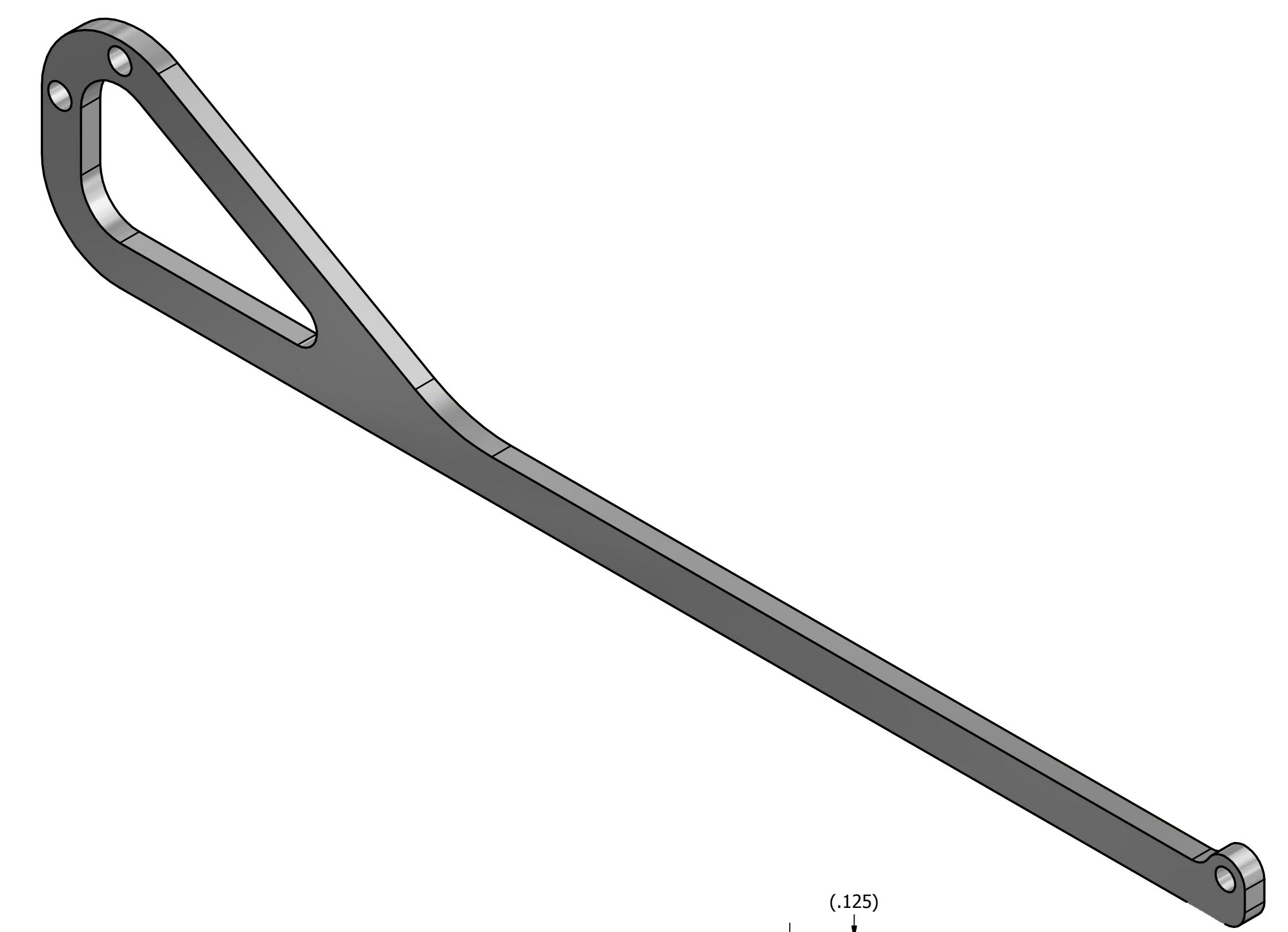
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NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM	QTY	PART NUMBER	NUT STRIP		DESCRIPTION	SPECIFICATION
MATERIAL		ALUM 6061	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN: D. DOAN 4/11/2013		
FINISH			UNDER .014 .000 .005 .014 THRU .125 .001 .005 .126 THRU .250 .001 .005	CHECKED: J. MIAH 4/24/2013 D. DOAN 4/24/2013 M. DELORIO 4/24/2013		CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES
WEIGHT	.014 LBS.	.251 THRU .500	OVER 2.000	APPROVED: L. EYE 4/24/2013		TITLE: IPT, SUPERSTRUCTURE, NUTSTRIP 2.5IN
		1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS: XXX ±.010 XX ±.03 X ±.1	ON ANGULAR DIMENSIONS: MACHINED ±.03° LOCATING ±.03° CHAMFERS ±.5°	REV: -	SIZE: DWG NO: D 01-10-08 SCALE: 5.1 SUBSYSTEM: SUPERSTRUCTURE SHEET: 1 OF 1

REVISION HISTORY		
REV	DESCRIPTION	APPROVED
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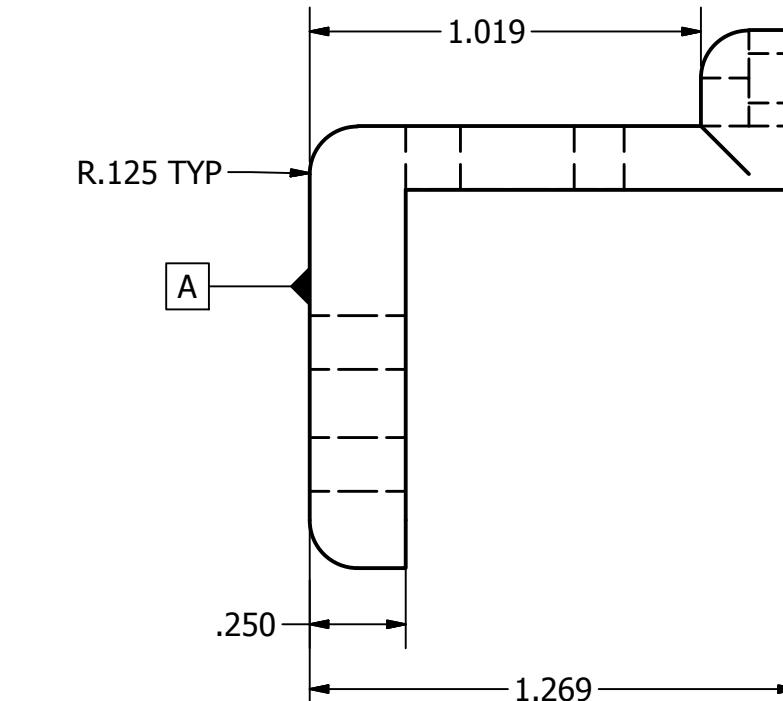
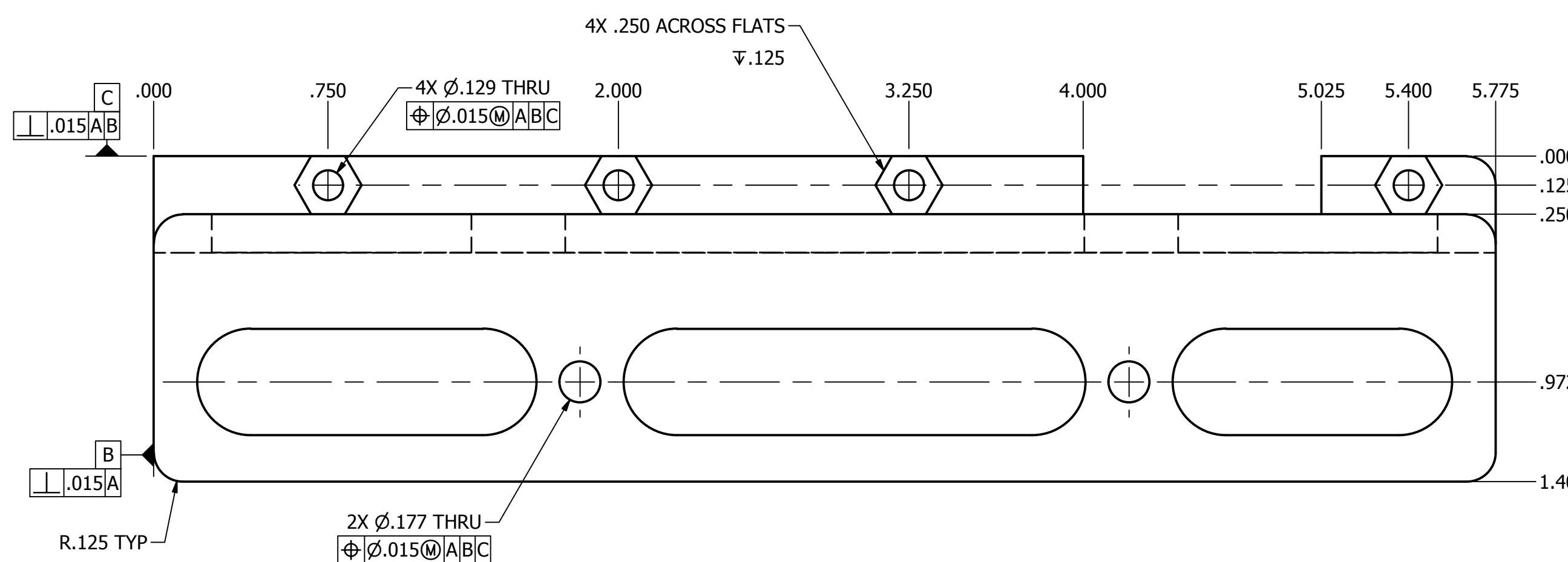
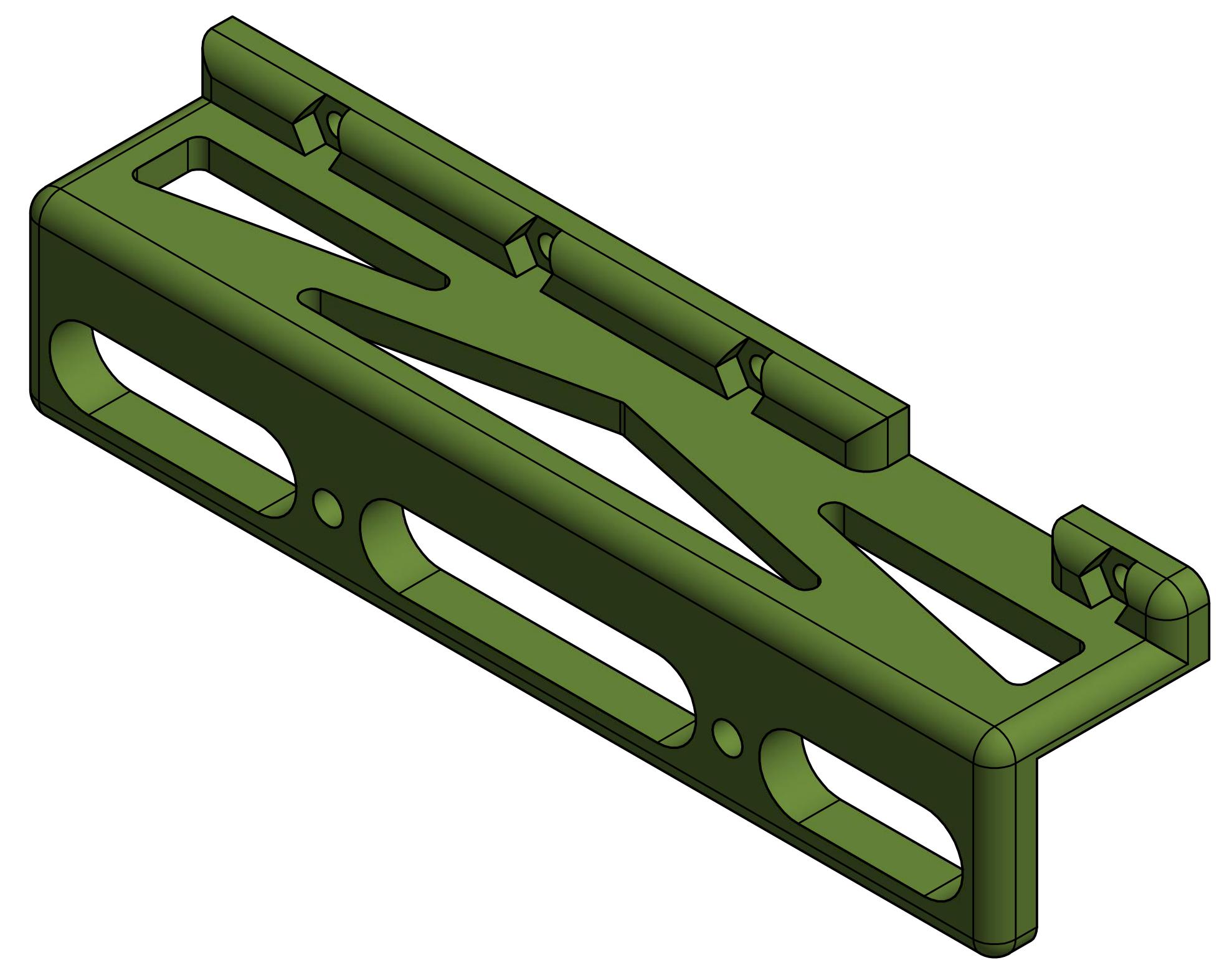


NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM	QTY	PART NUMBER	SKID PLATE	DESCRIPTION	SPECIFICATION
MATERIAL:		ALUM 6061	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN: D. DOAN 4/11/2013	
FINISH:			UNDER Ø.014 0 +.000 -.000 500 THRU .750 +.008 -.002 .014 THRU .125 +.001 -.001 .750 THRU 1.000 +.005 -.003 .126 THRU .250 +.006 -.004 .001 1.000 THRU 2.000 +.022 -.002 .126 THRU .250 +.006 -.004 .001 OVER 2.000 +.015 -.005	CHECKED: J. MIAH 4/24/2013 D. DOAN 4/24/2013 M. DELORIO 4/24/2013 APPROVED: L. LYE 4/24/2013	
WEIGHT:	.034 LBS.	.251 THRU .500		TITLE: IPT, SUPERSTRUCTURE, SKID	
			1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS: XXX ±.010 XX ±.03 X ±.1	ON ANGULAR DIMENSIONS: MACHINED ±.03° LOCATING ±.03° CHAMFERS ±.5°
					SIZE: DWG NO: D 01-10-09 SCALE: 2:1 SUBSYSTEM: SUPERSTRUCTURE SHEET: 1 OF 1 REV: -

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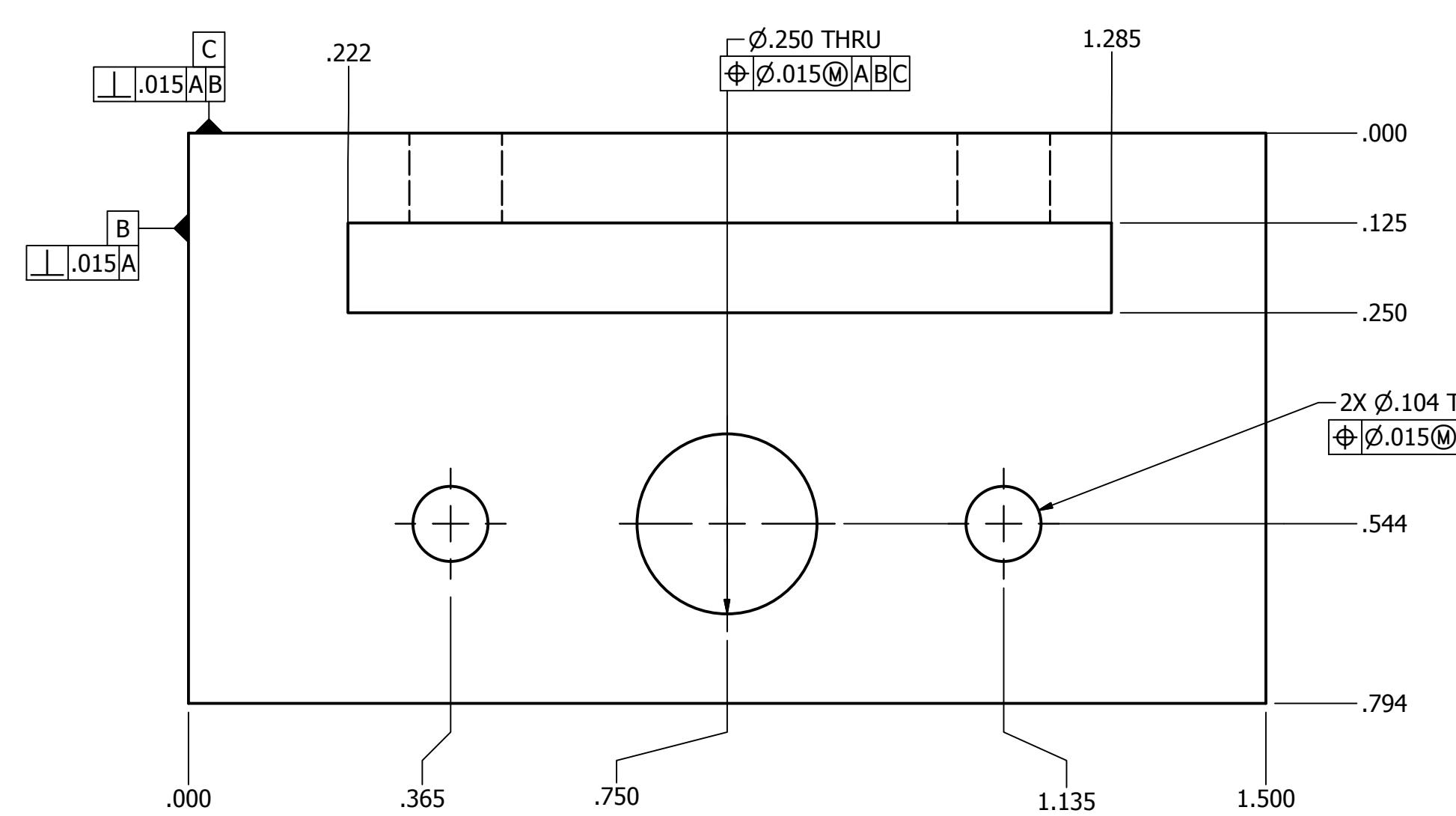
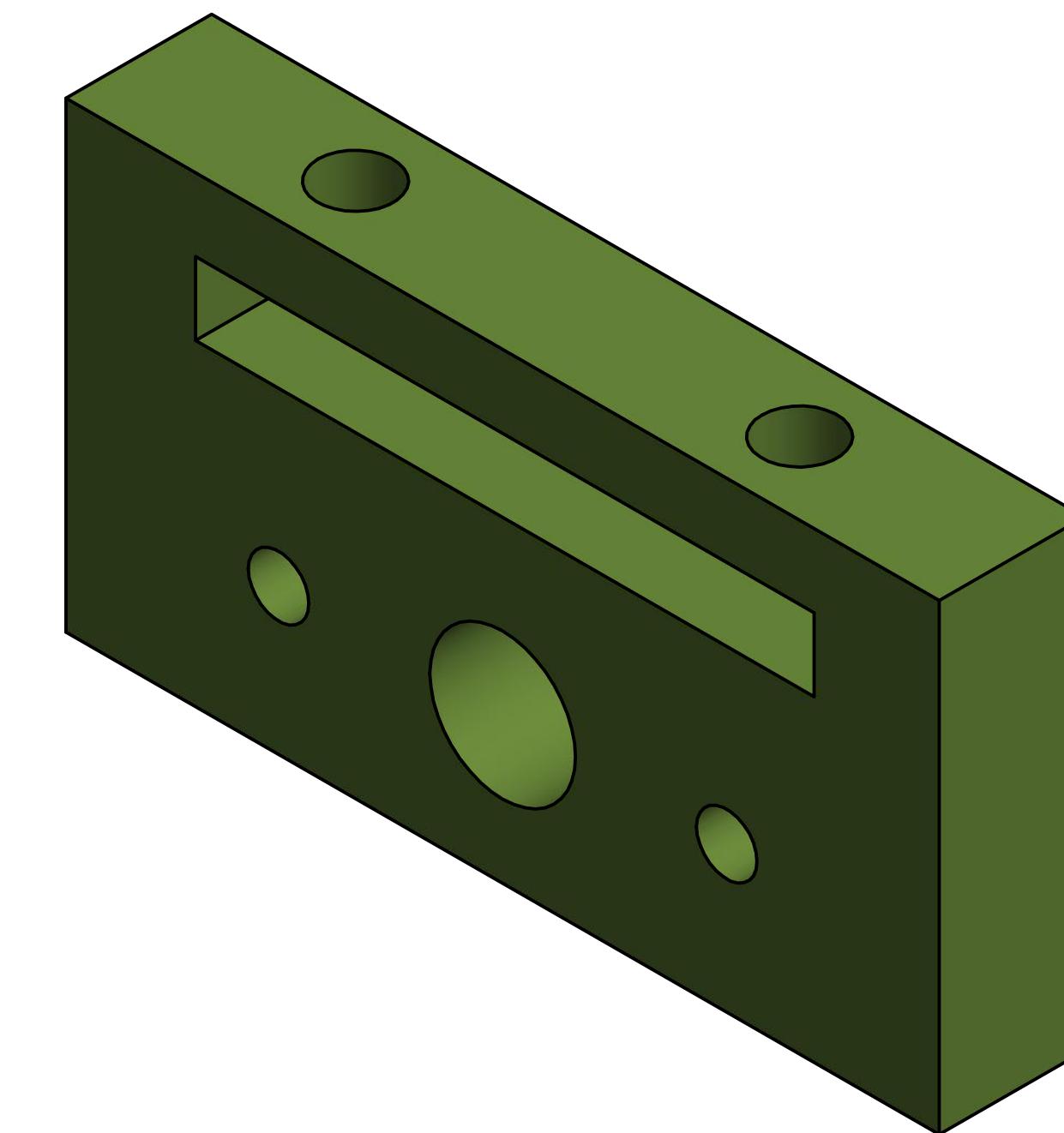
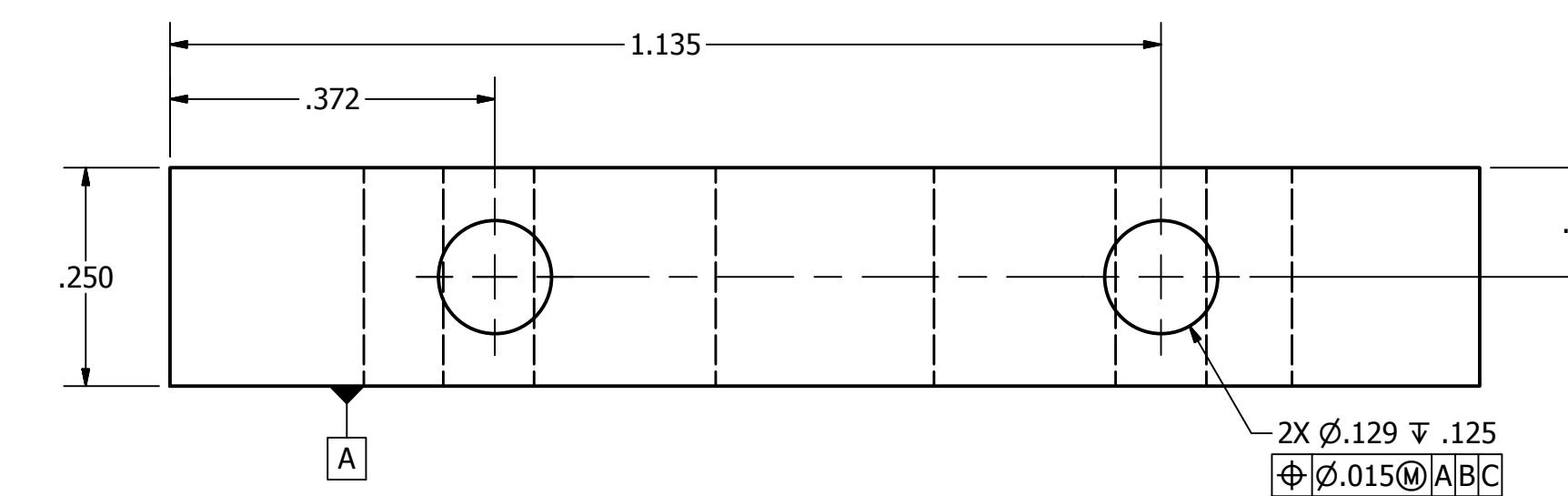
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

10	4	01-10-10	SLIDER ATTACHMENT BRACKET							
ITEM	QTY	PART NUMBER			DESCRIPTION			SPECIFICATION		
MATERIAL:	ABS PLASTIC		UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS			DRAWN : D. DOAN	4/11/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES		
FINISH:			UNDER .014 .0	^{+.0020} _{-.0005}	.500 THRU .750	^{+.008} _{-.001}	CHECKED : O. MIAH			
			.014 THRU .125	^{+.004} _{-.001}	.751 THRU 1.000	^{+.010} _{-.001}	QA : D. DOAN			
			.126 THRU .250	^{+.005} _{-.001}	1.000 THRU 2.000	^{+.012} _{-.001}	MFG : M. DELORIO			
WEIGHT:	.076 LBS.		.251 THRU .500	^{+.006} _{-.001}	OVER 2.000	^{+.015} _{-.005}	APPROVED : L. LY	4/24/2013		
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.			ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°	 DELTA TECHNOLOGIES	TITLE : IPT, SUPERSTRUCTURE, SLIDER ATTACHMENT BRACKET				
					SIZE : D	DWG NO : 01-10-10	REV : -			
					SCALE : 2:1	SUBSYSTEM : SUPERSTRUCTURE	SHEET : 1 OF 1			

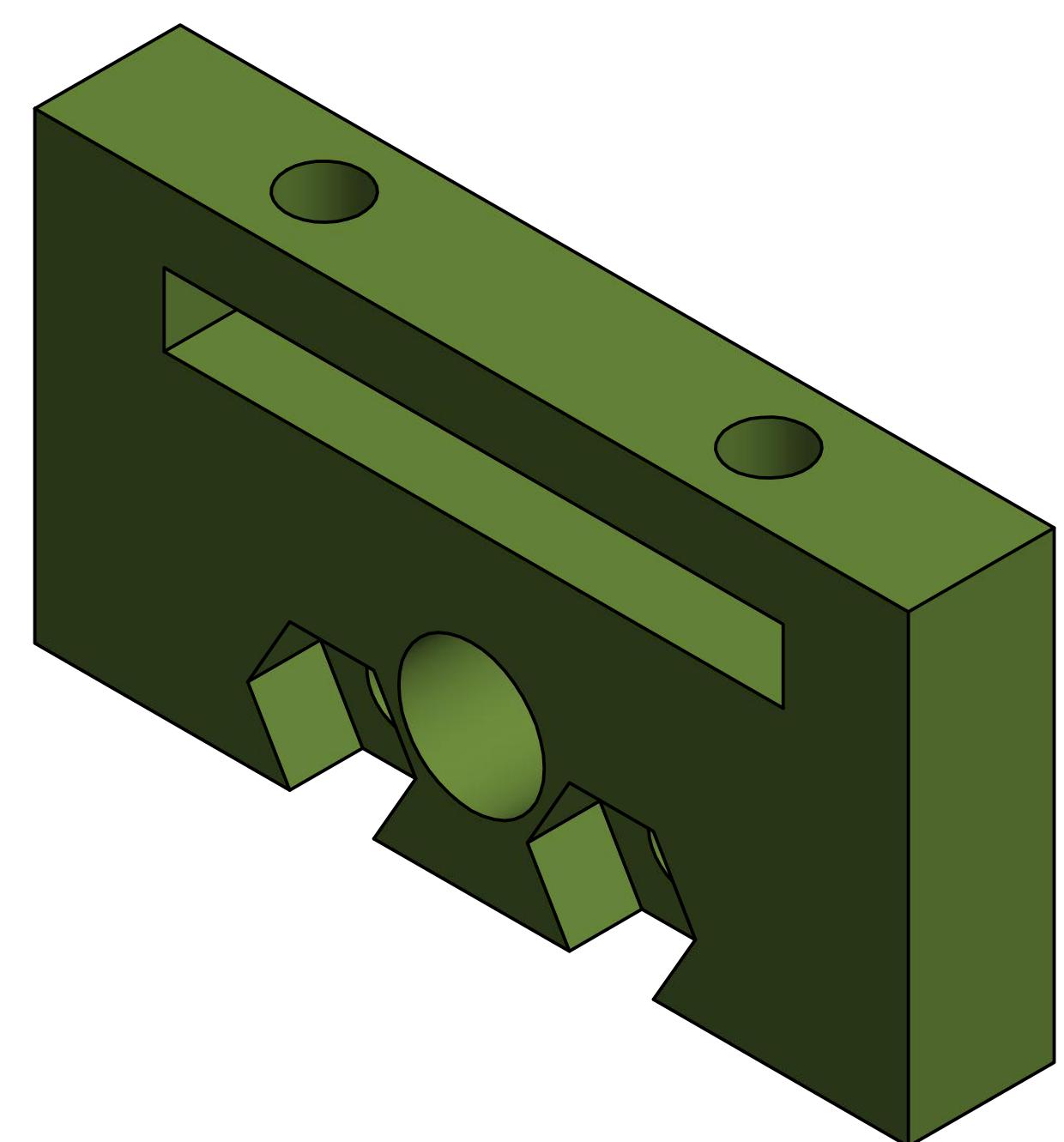
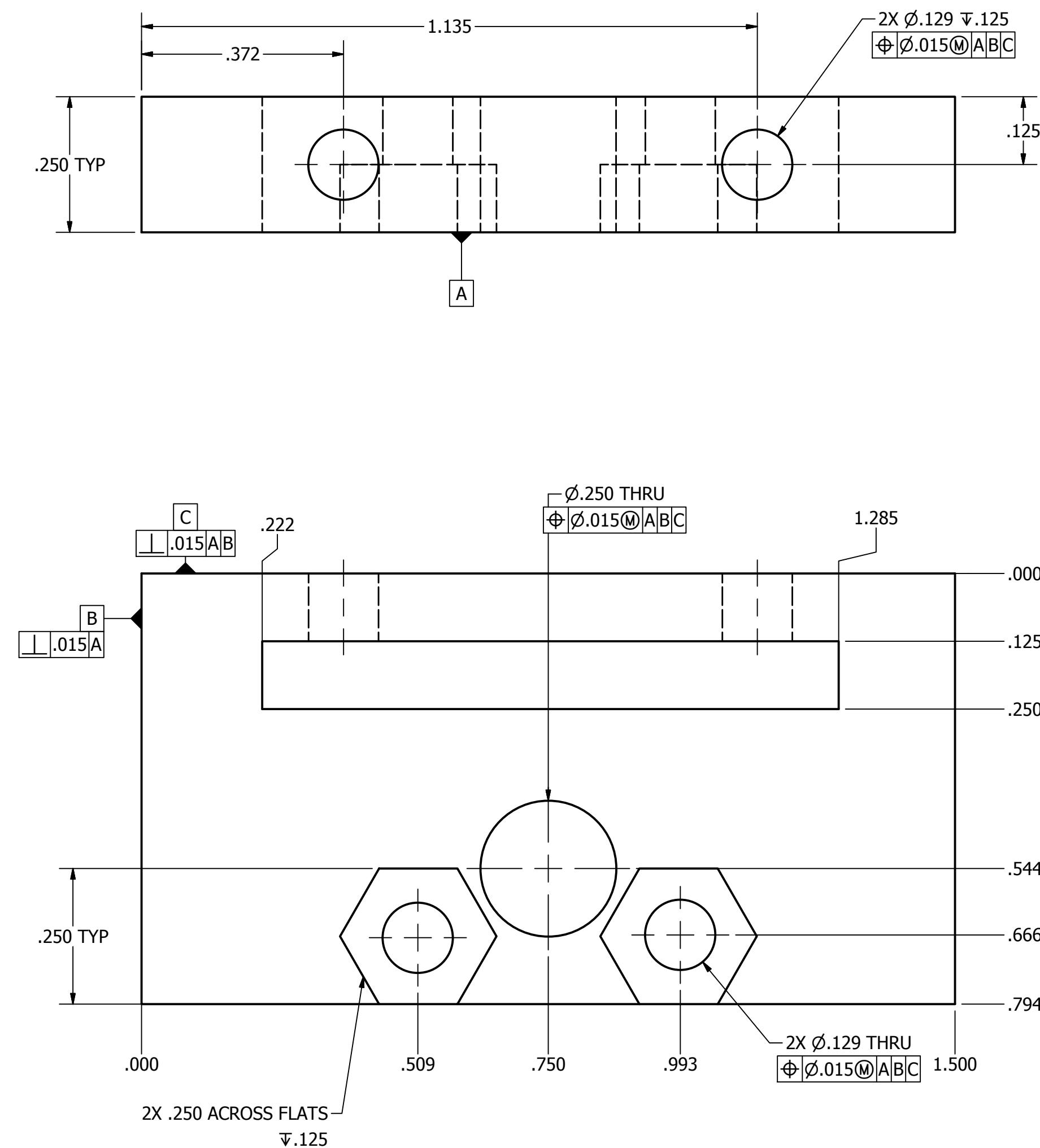


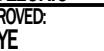
NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

11		4	01-10-11	HORIZONTAL SLIDER MOUNT		DESCRIPTION		SPECIFICATION
ITEM	QTY		PART NUMBER					
MATERIAL:			UNLESS OTHERWISE SPECIFIED ABS PLASTIC	DRAWN:	D. DOAN	4/11/2013		
FINISH:			TOLENCES ON ALL HOLE DIAMETERS	CHECKED:	J. MIAH	4/24/2013		
			UNDER Ø.014 0 +.000 - .000	Ø.014 THRU .125	+ .008 -.002			
			Ø.014 THRU .125 +.008 -.002	.125 THRU .100	+ .002 -.001	D. DOAN	4/24/2013	
			Ø.126 THRU .250 +.006 -.004	.126 THRU .250	+ .022 -.004	M. DELORIO	4/24/2013	
WEIGHT:	.009 LBS.		OVER 2.000	251 THRU 500	+ .006 -.004	APPROVED	L. LYE	4/24/2013
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.				ON DIMAL DIMENS.	ON ANGULAR DIMENS.			
				XXX ± .010	MACHINED ± .030°			
				XX ± .03	LOCATING ± .030°			
				X ± .1	CHAMFERS ± .5°			
SIZE:		DWG NO:	D 01-10-11	REV:	-			
SCALE:		5:1	SUBSYSTEM: SUPERSTRUCTURE	1 OF 1				
CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES								
TITLE: IPT, SUPERSTRUCTURE, HORIZONTAL SLIDER MOUNT								
A								

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



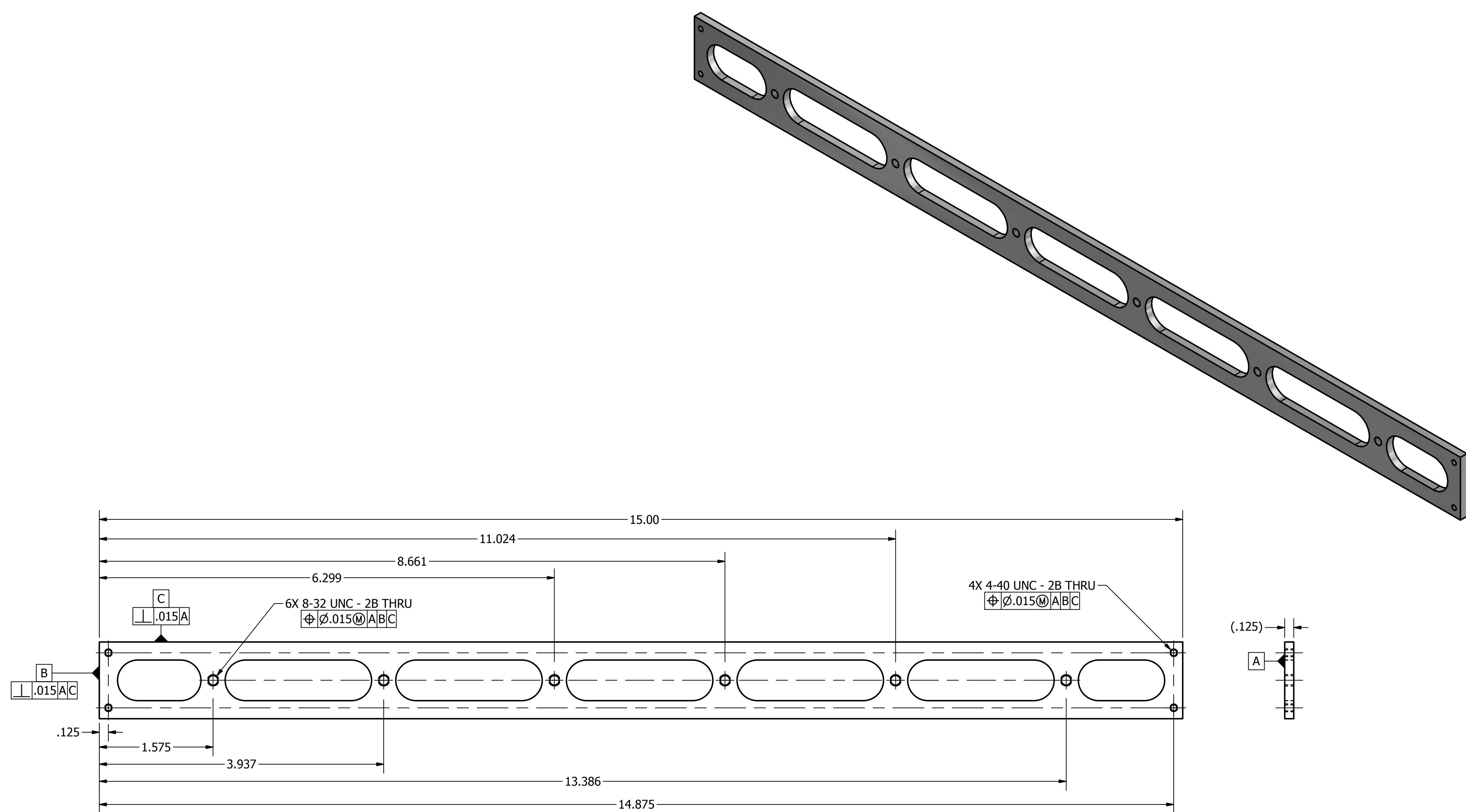
12	2	01-10-12	SLIDER MOUNT FOR MIDDLE SHROUD					
ITEM	QTY	PART NUMBER			DESCRIPTION			SPECIFICATION
MATERIAL:		UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS		DRAWN : D. DOAN	4/11/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES		
ABS PLASTIC		UNDER .014 0	.0020 .005	.500 THRU .750	.008 .001	CHECKED : O. MIAH	4/24/2013	
FINISH:		.014 THRU .125	.004 .001	.751 THRU 1.000	.010 .001	QA : D. DOAN	4/24/2013	TITLE : IPT, SUPERSTRUCTURE, HORIZONTAL SLIDER MOUNT MIDDLE
		.126 THRU .250	.005 .001	1.000 THRU 2.000	.012 .001	MFG : M. DELORIO	4/24/2013	
WEIGHT:		.009 LBS.	.251 THRU .500	.006 .001	OVER 2.000	.018 .005	APPROVED: L. LY	4/24/2013
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.			ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°	 DELTA TECHNOLOGIES	SIZE: D DWG NO: 01-10-12 REV: — SCALE: 5:1 SUBSYSTEM: SUPERSTRUCTURE SHEET: 1 OF 1		

NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994

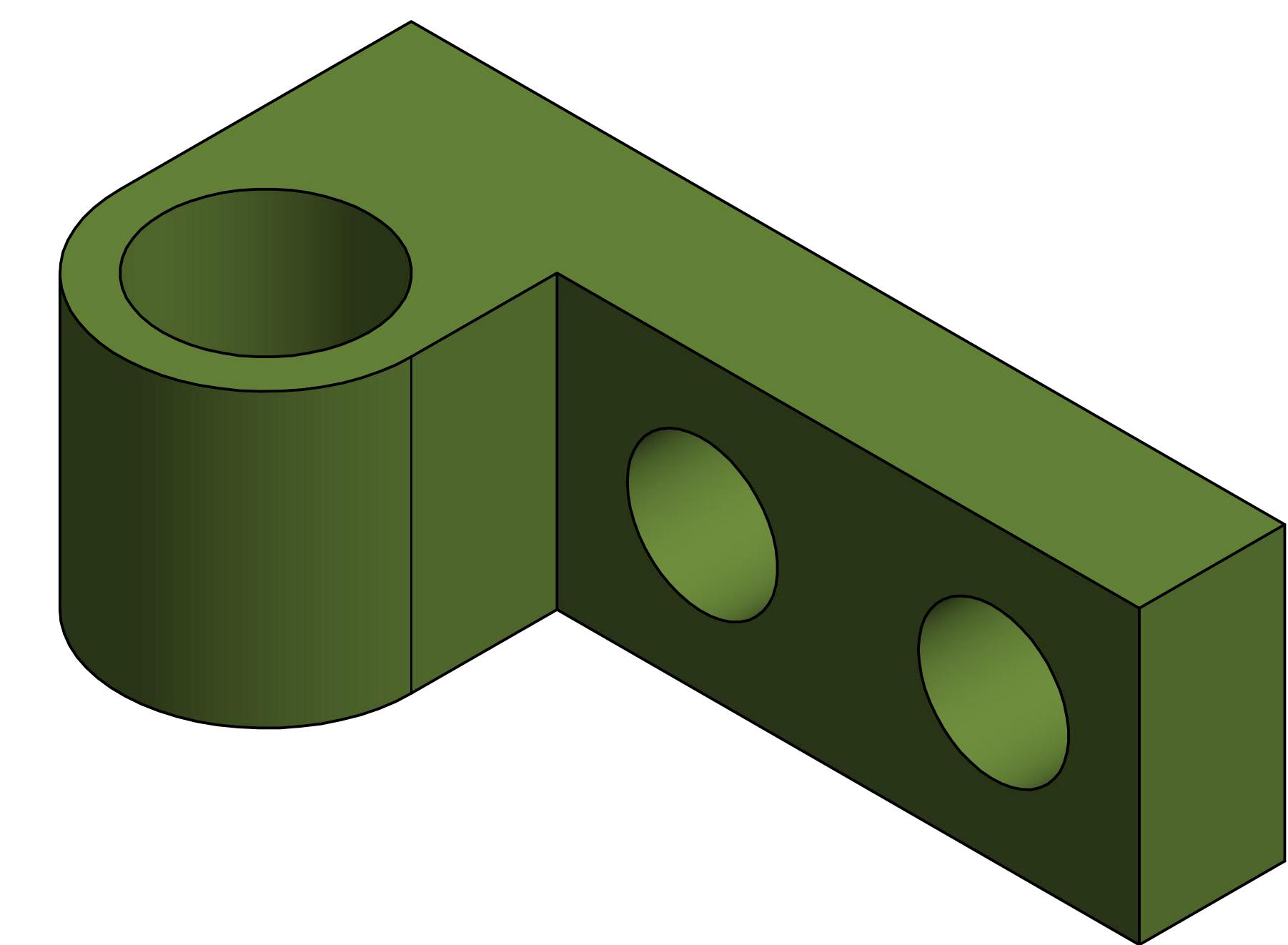
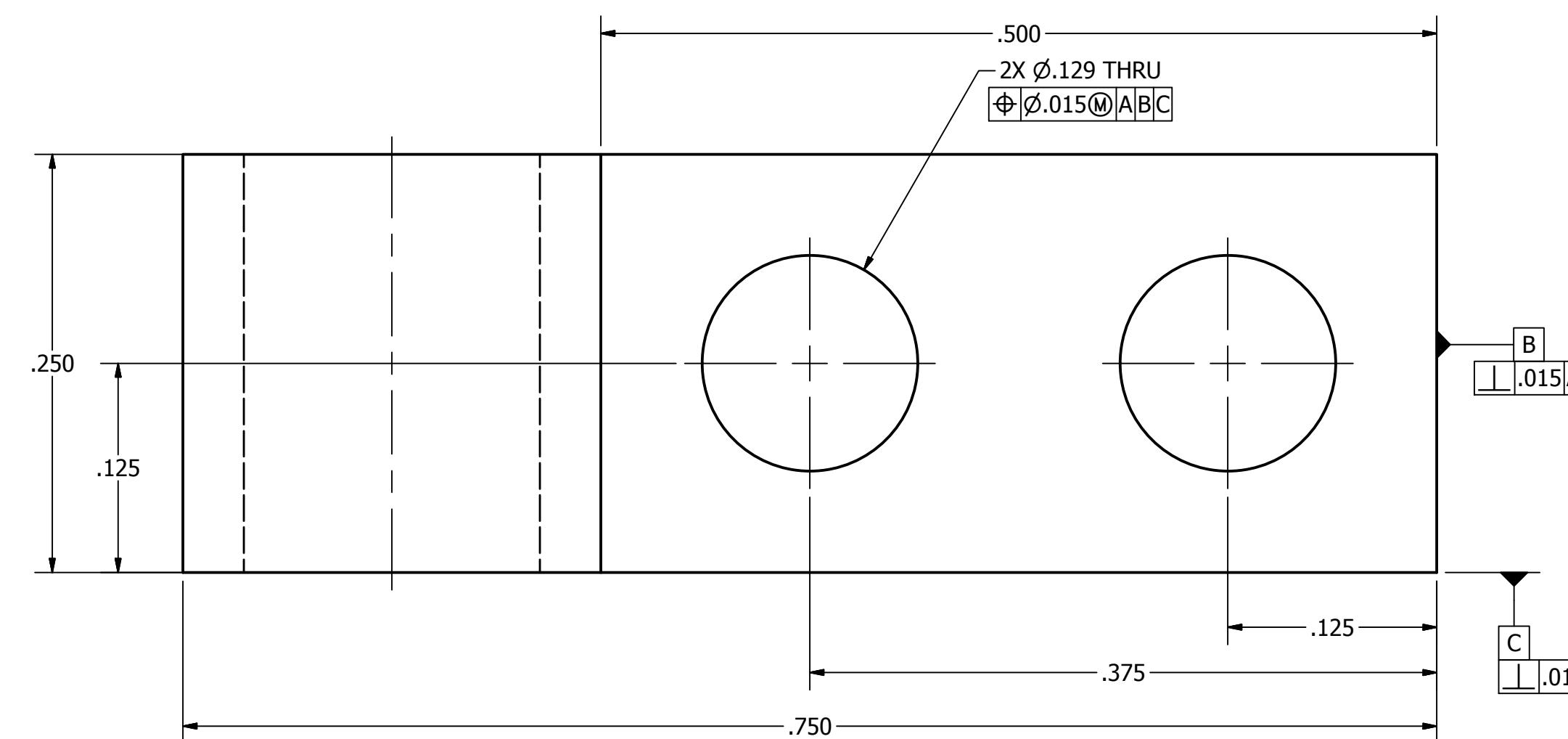
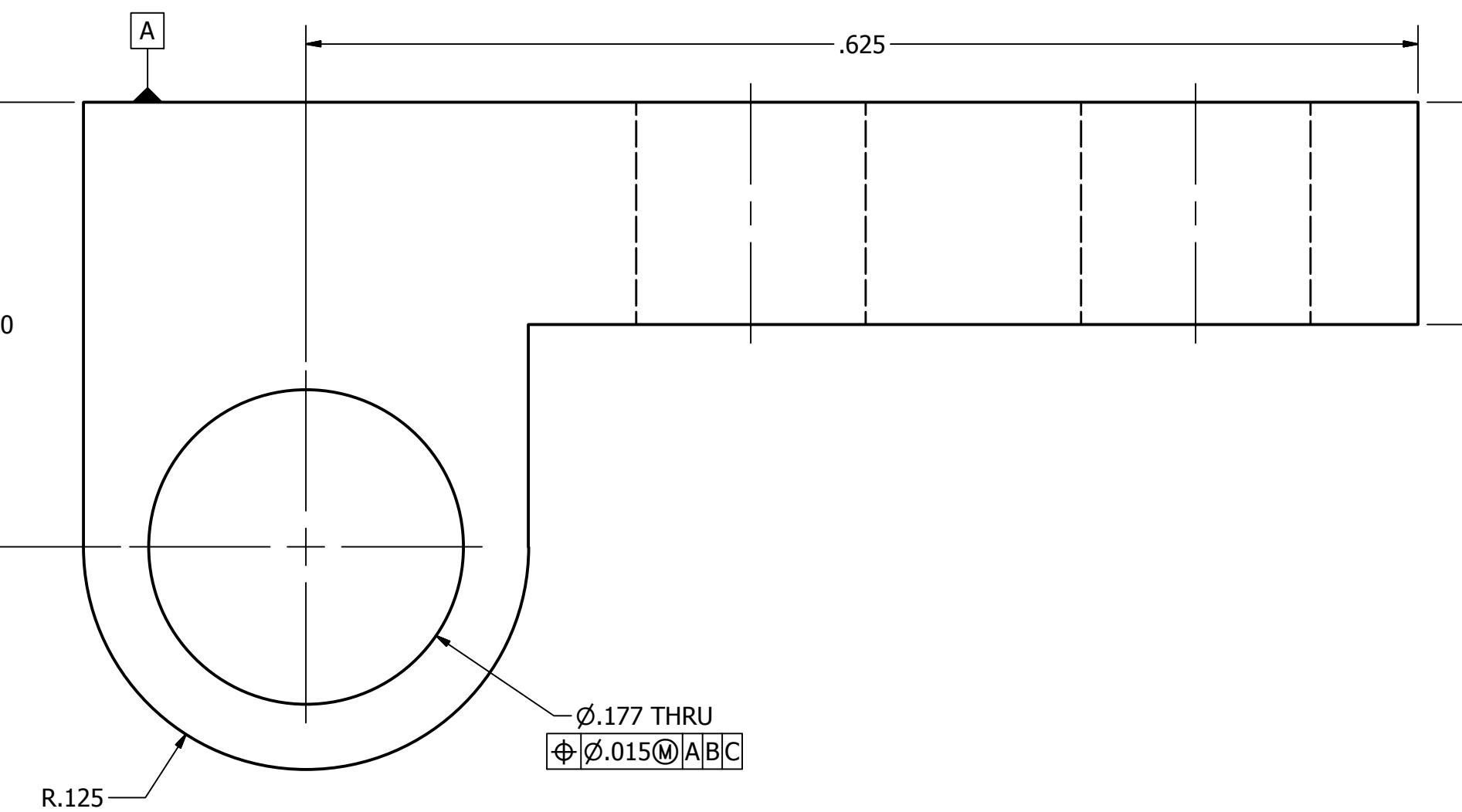
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REVISION HISTORY		
REV	DESCRIPTION	APPROVED
-	-	-



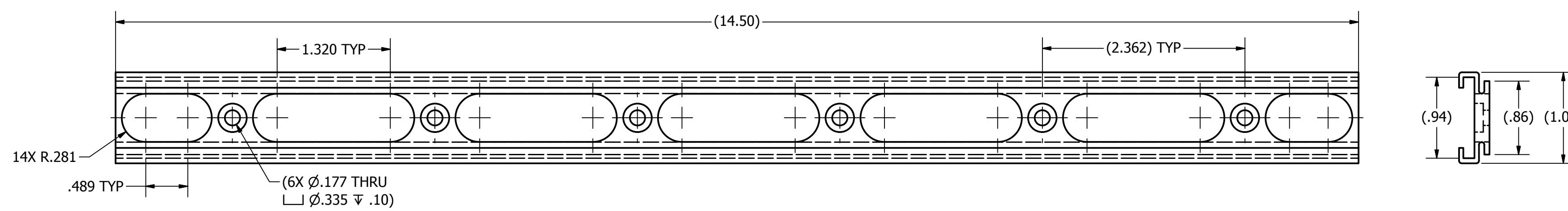
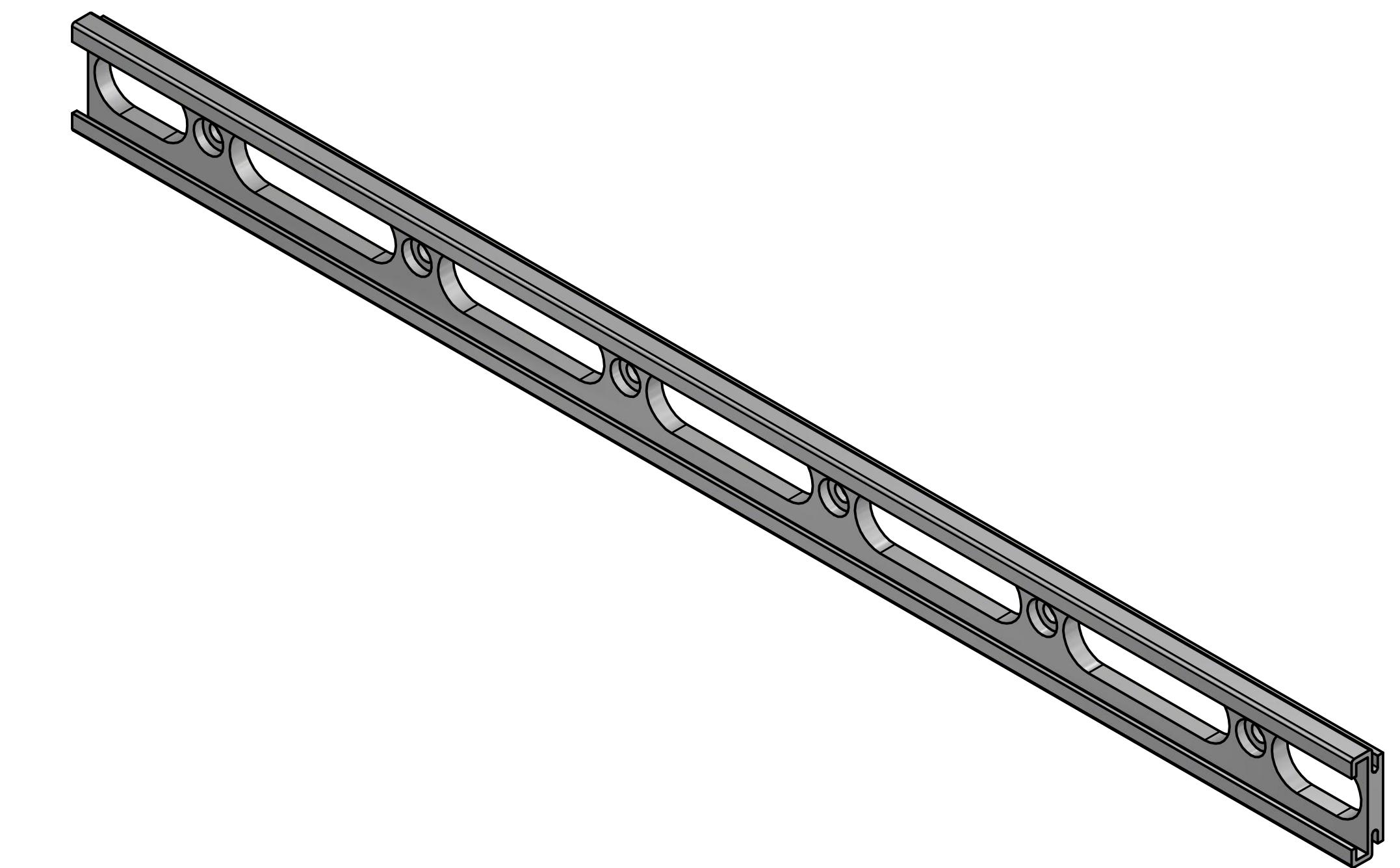
NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATION
MATERIAL:		ALUM 6061	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN: D. DOAN 4/11/2013
FINISH:			UNDER .014 .000 .005 500 THRU .750	CHECKED: O. MIAH 4/24/2013
WEIGHT:		.114 LBS.	.014 THRU .125 .001 .750 THRU 1.000	D. DOAN 4/24/2013
			.126 THRU .250 .001 1.000 THRU 2.000	M. DELORIO 4/24/2013
			251 THRU 500 .006 OVER 2.000	APPROVED: L. EYE 4/24/2013
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DIMAL DIMENS. XXX ± .010 XX ± .03 X ± .1	ON ANGULAR DIMENS. MACHINED ± .03° LOCATING ± .03° CHAMFERS ± .5°	REV: -
				SIZE: DWG NO: D 01-10-13
				SCALE: 1:1 SUBSYSTEM: SUPERSTRUCTURE SHEET: 1 OF 1



NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

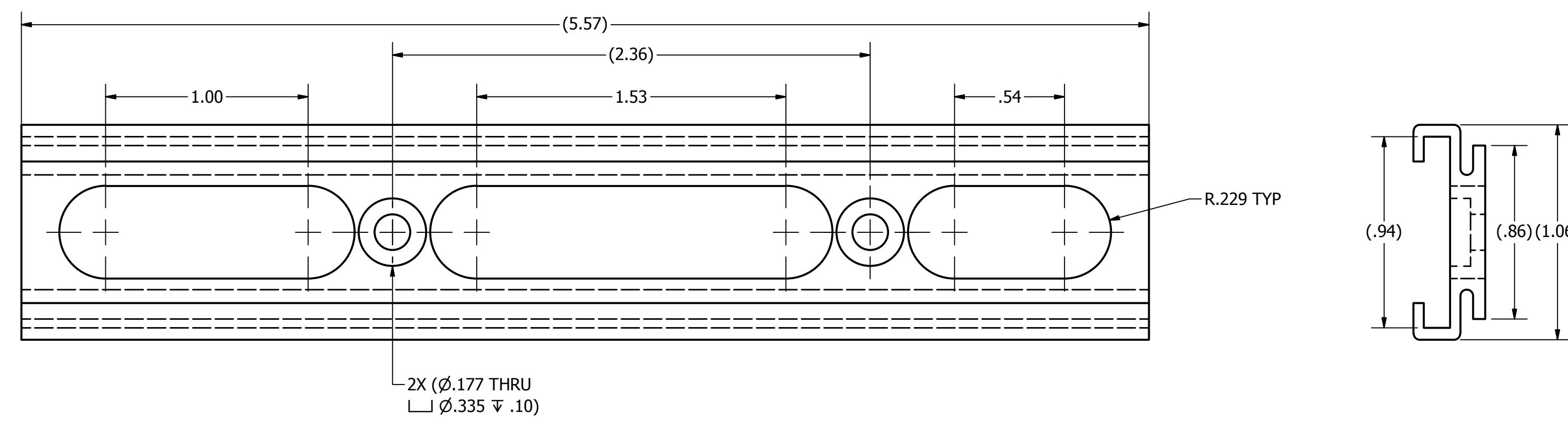
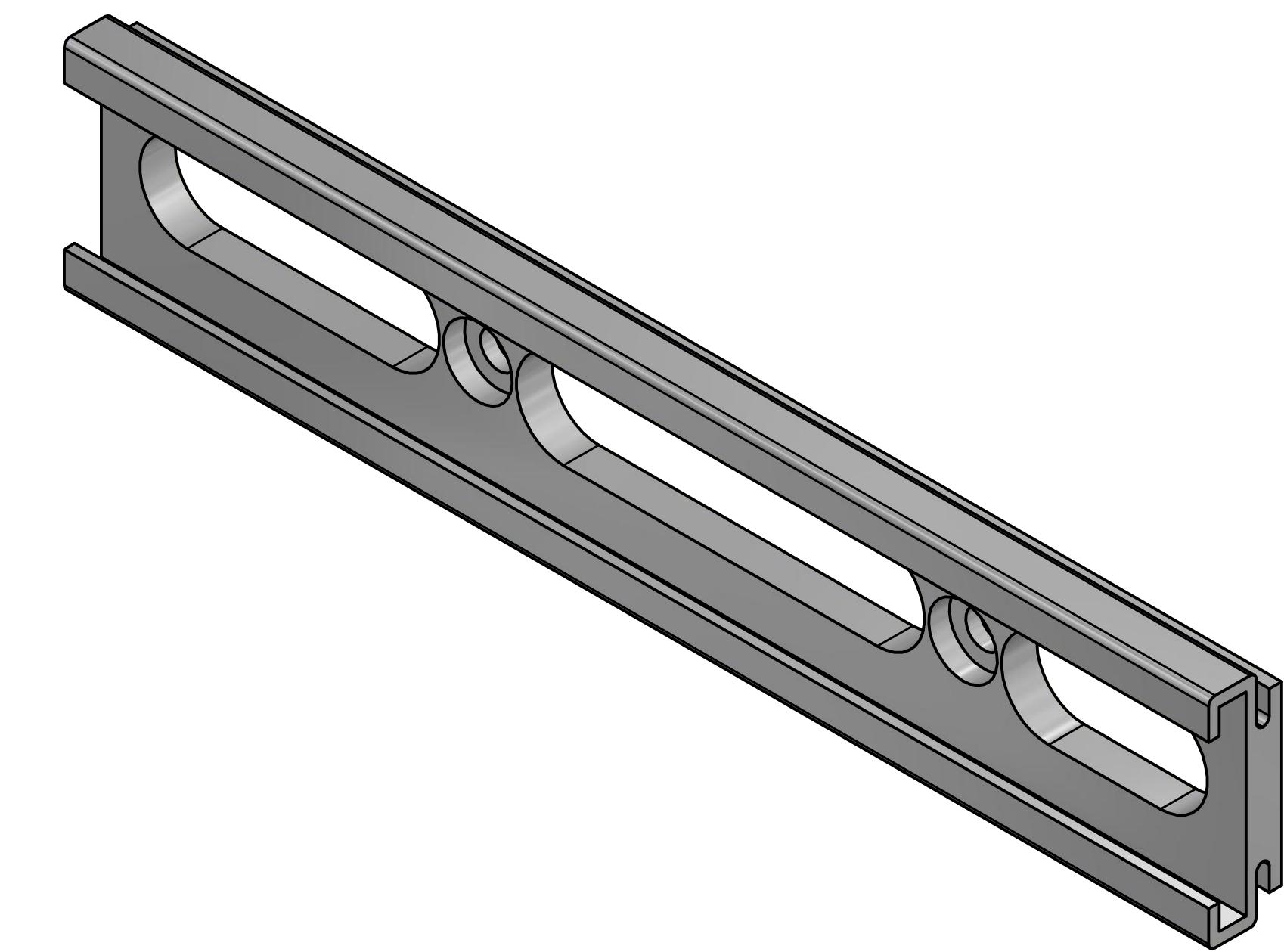
14		4	1-10-14	THREADED ROD SUPPORT			DESCRIPTION		SPECIFICATION	
ITEM	QTY		PART NUMBER							
MATERIAL:			UNLESS OTHERWISE SPECIFIED ABS PLASTIC	DRAWN:	D. DOAN	4/24/2013				
			TOLERANCES ON ALL HOLE DIAMETERS	CHECKED:	J. MIAH	4/24/2013				
FINISH:			UNDER Ø.014 Ø .008 500 THRU .750	Ø.014 THRU .125	.001 .750 THRU 1.000	.001	D. DOAN	4/24/2013		
			Ø.126 THRU .250	.001	1.000 THRU 2.000	.002	M. DELORIO	4/24/2013		
WEIGHT:			.001 LBS	251 THRU 500	.006 OVER 2.000	.005	APPROVED	L. LYE	4/24/2013	
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.				ON DIMAL DIMENS.	ON ANGULAR DIMENS.					
				XXX ± .010	MACHINED ± .030°					
				XX ± .03	LOCATING ± .030°					
				X ± .1	CHAMFERS ± .5°					
SIZE:		DWG NO:	D 01-10-14	REV:	-					
SCALE:		12:1	SUBSYSTEM: SUPERSTRUCTURE	1 OF 1						



NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ALTERED ITEM DRAWING

ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATION
15 3 6723K2 500M GUIDE RAILS				
PARTS LIST				
MATERIAL:	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN: D. DOAN 4/24/2013	CHECKED: O. MIAH 4/24/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES
FINISH:	UNDER .014 .0 +.000 -.005 500 THRU 750	.008 .001	.005 .001	
WEIGHT:	.014 THRU .125 .001 -.001 750 THRU 1,000	D. DOAN 4/24/2013	.126 THRU .250 .001 -.001 1,000 THRU 2,000	
251 THRU 500 .001 -.001 OVER 2,000	.005 .005 APPROVED .005 L. LYE 4/24/2013	TITLE: OTS, 500M GUIDE RAILS		
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DIMAL DIMENSIONS: XXX ±.010 XX ±.03 X ±.1	ON ANGULAR DIMENSIONS: MACHINED ±.03° LOCATING ±.03° CHAMFERS ±.5°	SIZE: DWG NO: D 01-10-15 REV: - SCALE: 6.1 SUBSYSTEM: SUPERSTRUCTURE SHEET: 1 OF 1



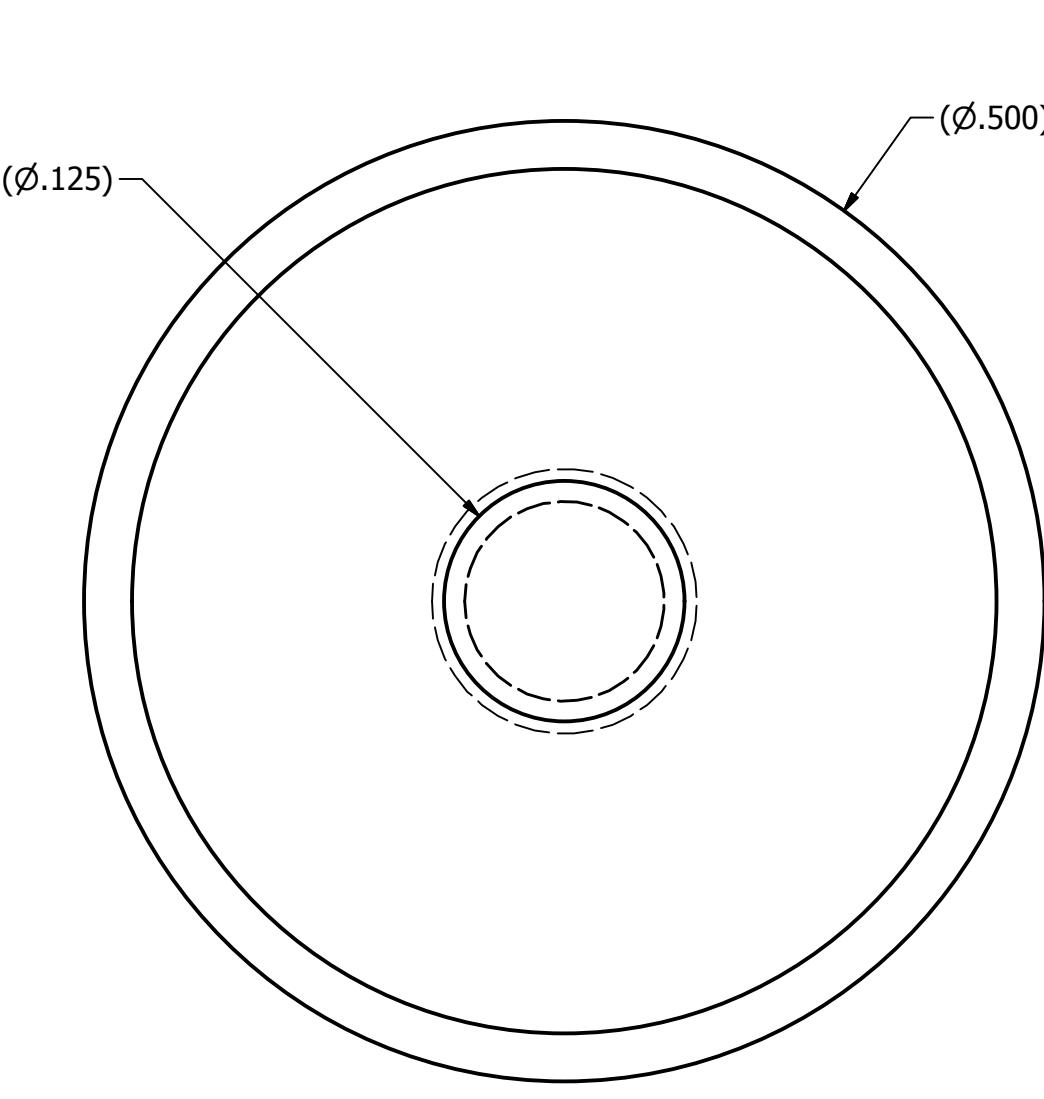
ALTERED ITEM DRAWING

NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATION
250M GUIDE RAILS				
16	4	6723K2		
MATERIAL:		UNLESS OTHERWISE SPECIFIED	DRAWN BY: D. DOAN 4/24/2013	
FINISH:		TOLERANCES ON ALL HOLE DIAMETERS	CHECKED BY: O. MIAH 4/24/2013	
WEIGHT:	0.061 LBS	UNDER .014 .0	+.000 -.005 500 THRU 750	
		.014 THRU .125	+.008 -.005 755 THRU 1,000	
		.126 THRU .250	+.022 -.004 1,000 THRU 2,000	
		251 THRU 500	+.006 OVER 2,000	
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: XXX ± .010 XX ± .03 X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± .03° LOCATING ± .03° CHAMFERS ± .5°	APPROVED BY: M. DELORIO 4/24/2013 L. LYE 4/24/2013
CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES				
TITLE: OTS, 500M GUIDE RAILS				
SIZE: DWG NO: D 01-10-16 REV: -				
SCALE: 6:1 SUBSYSTEM: SUPERSTRUCTURE SHEET: 1 OF 1				

8	I	7	I	6	I	5	SUGGESTED SOURCE OF SUPPLY CAGE PART NO. NAME + ADDRESS	4	I	3	I	2	I	1	
D							N/A EM050- 3-222 APW Company 5 Astro Place, Suite B. Rockaway, NJ 07866-4053 (973) 627 0643 info@apwcompany.com							REVISION HISTORY	
													REV	DESCRIPTION	APPROVED
													---	---	---

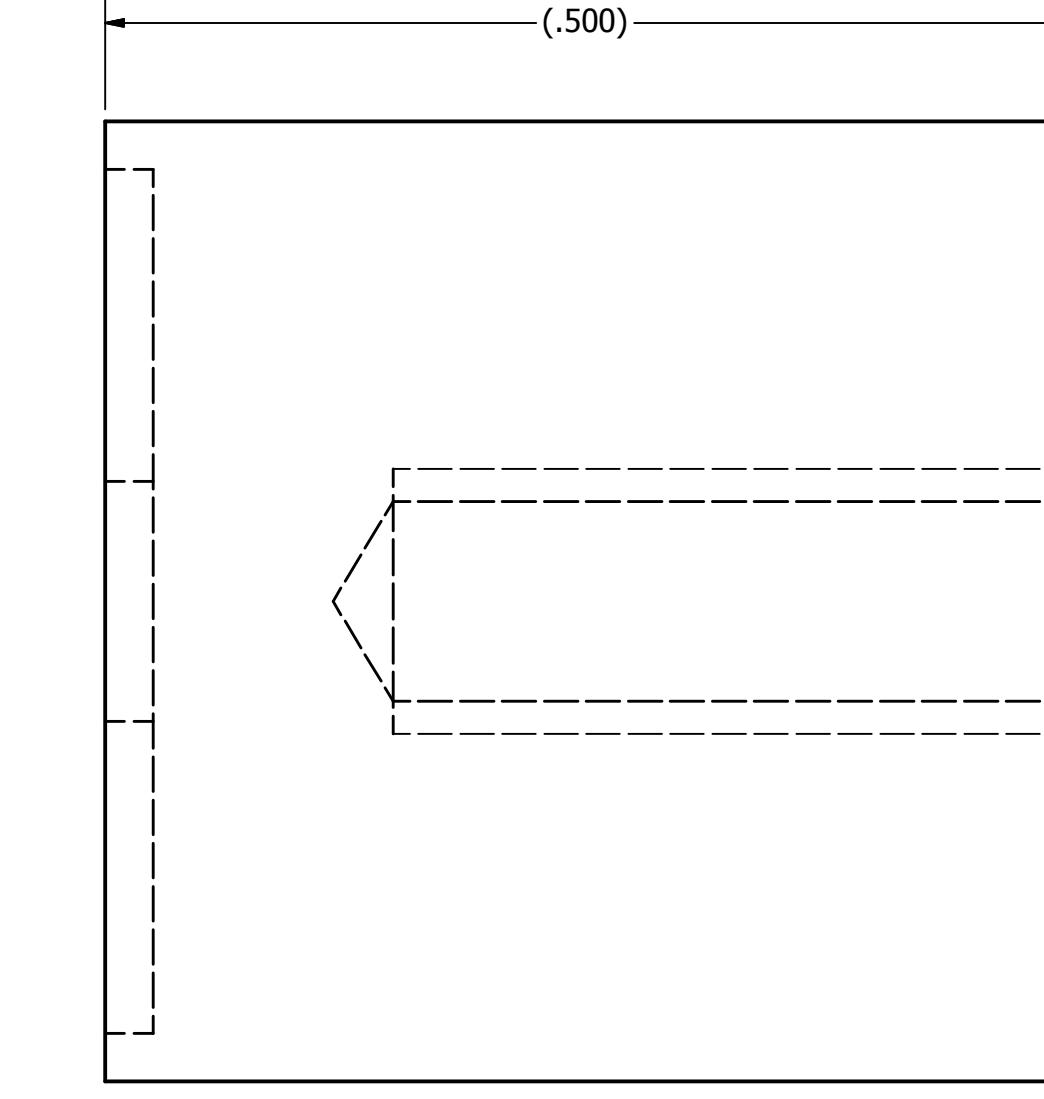


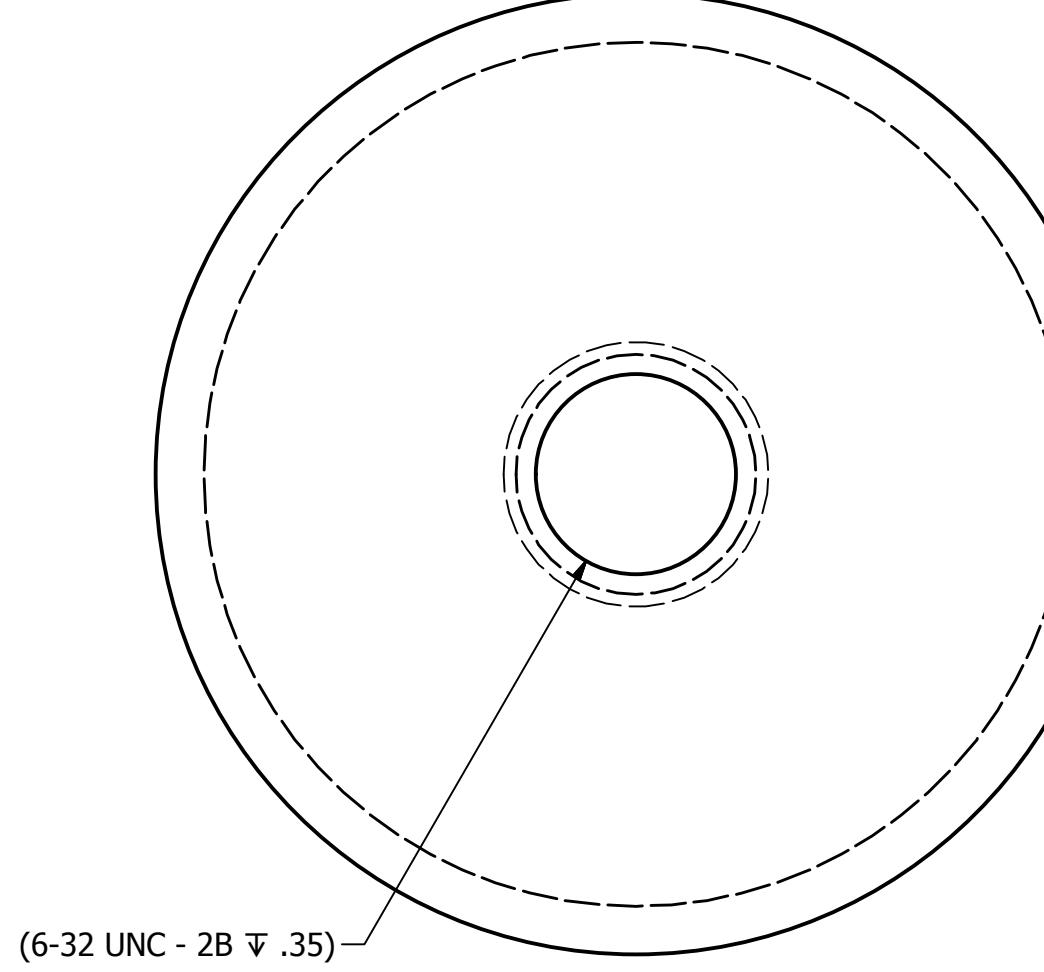


(.125)

(.500)

(6-32 UNC - 2B ∇ .35)





SOURCE CONTROL DRAWING

NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM	QTY	PART NUMBER	DESCRIPTION
17	3	EM050-3-222	ELECTROMAGNET 6-32

PARTS LIST

MATERIAL	UNLESS OTHERWISE SPECIFIED		DRAWN:	4/23/2013		
	TOLERANCES ON ALL HOLE DIAMETERS	D. DOAN				
FINISH	UNDER .014 .0	+ .008 -.005	500 THRU 750	+ .008 -.005	CHECKED: O. MIAH	4/24/2013
	.014 THRU .125	+ .008 -.005	755 THRU 1,000	+ .008 -.005	D. DOAN	4/24/2013
	.126 THRU .250	+ .008 -.005	1,000 THRU 2,000	+ .022 -.004	M. DELORIO	4/24/2013
WEIGHT:	0.029 LBS	251 THRU 500	+ .008 -.005	APPROVED: L. LYE	4/24/2013	
		OVER 2,000	+ .005 -.005			

1. DO NOT SCALE DRAWING.
 2. INTERPRET PER ASME Y14.5M-1995
 3. DIMENSIONS ARE IN INCHES.
 4. REMOVE BURRS AND SHARP EDGES.

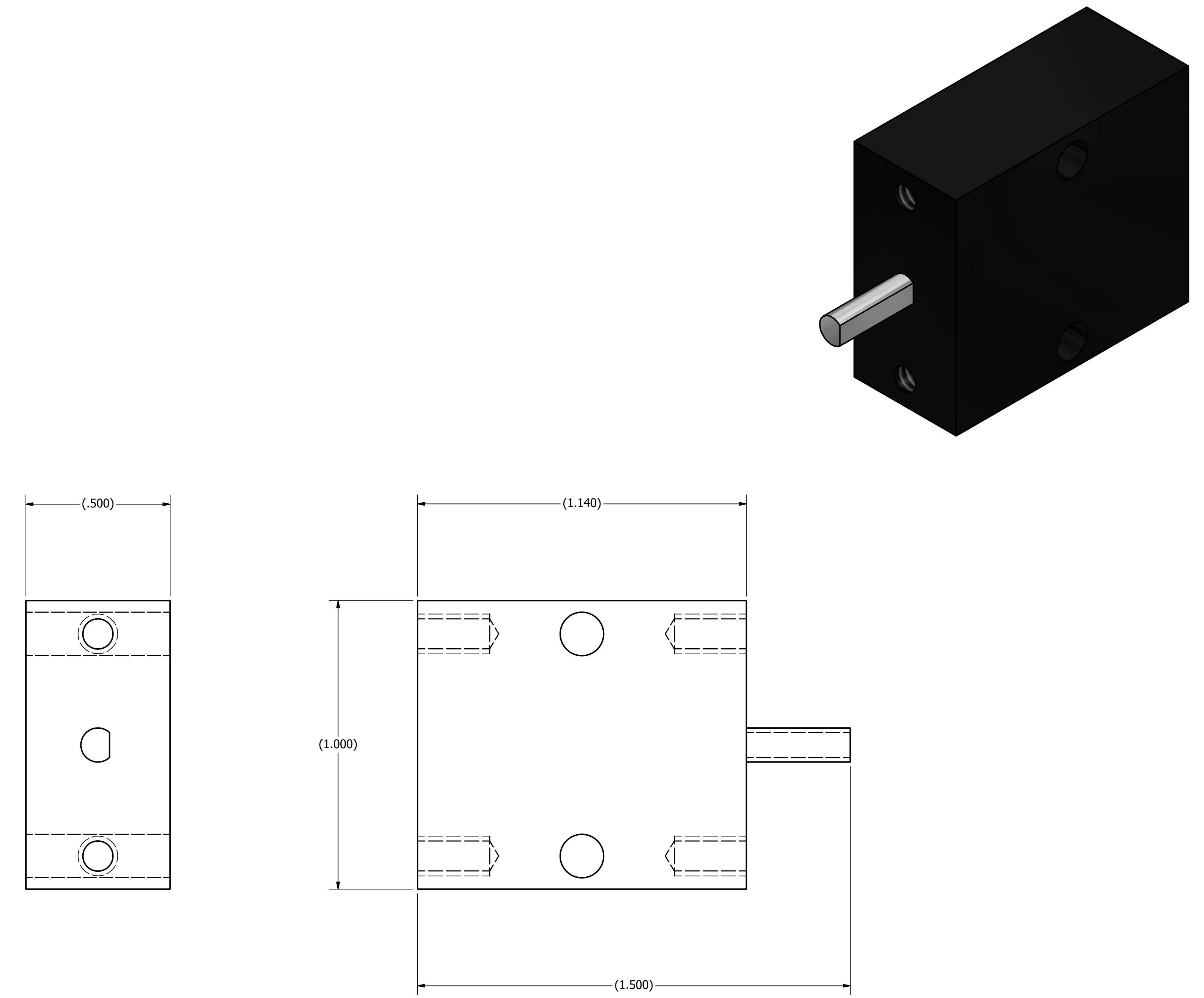
ON DIMAL DIMENSIONS:
 XXX \pm .010
 XX \pm .03
 X \pm .1

ON ANGULAR DIMENSIONS:
 MACHINED \pm 0°
 LOCATING \pm 0°
 CHAMFERS \pm 5°

SIZE: DWG NO: D 01-10-17 REV: -
 SCALE: 6:1 SUBSYSTEM: SHROUDS SHEET: 1 OF 1

 DELTA TECHNOLOGIES

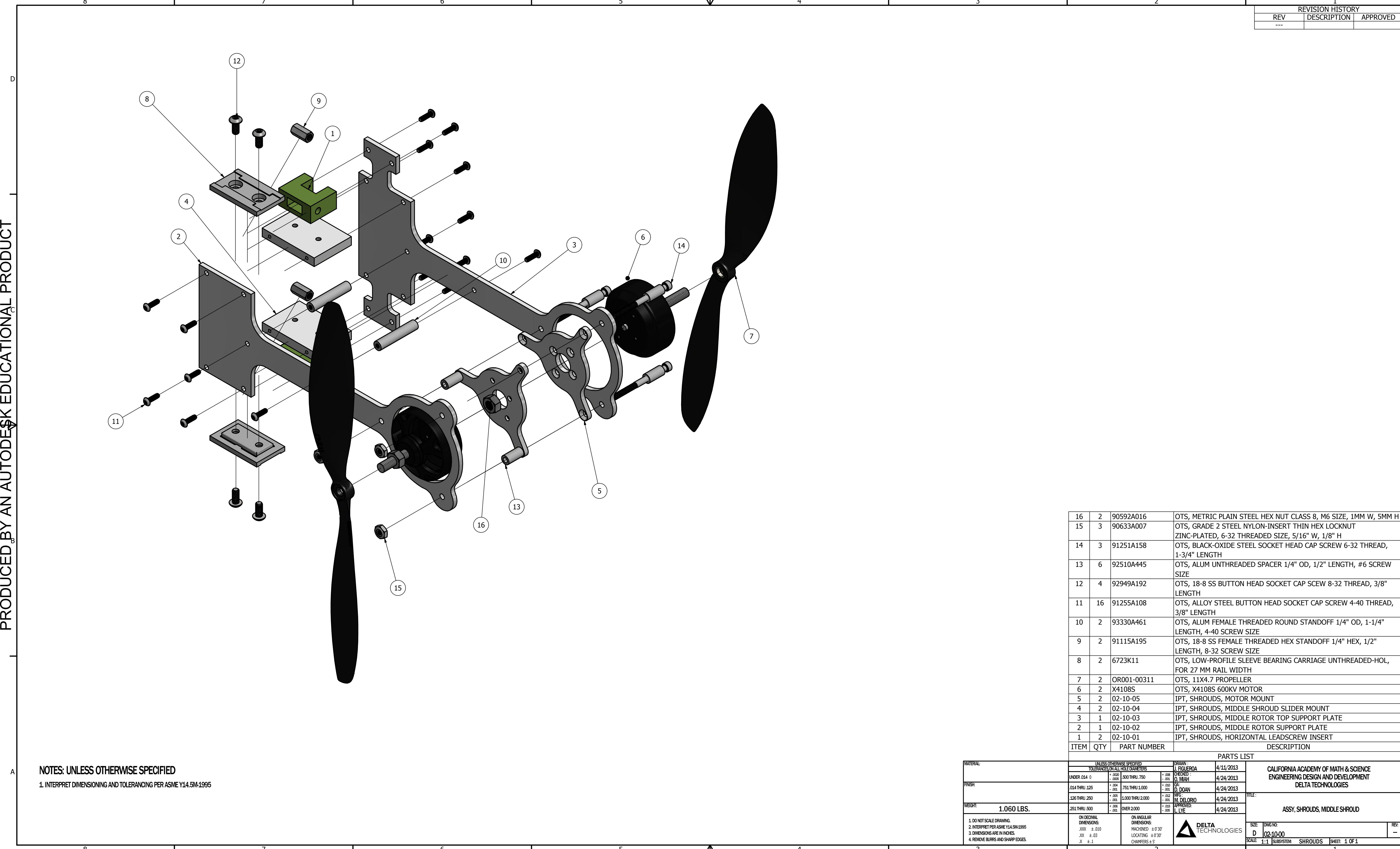
8	7	6	5	4	3	2	1
				SUGGESTED SOURCE OF SUPPLY			
CAGE	PART NO.	NAME + ADDRESS					
N/A	MGB-298	ServoCity Order Department 3850 East 12th Avenue Winfield, KS 67156 (620) 221-0858					



NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

SOURCE CONTROL DRAWING

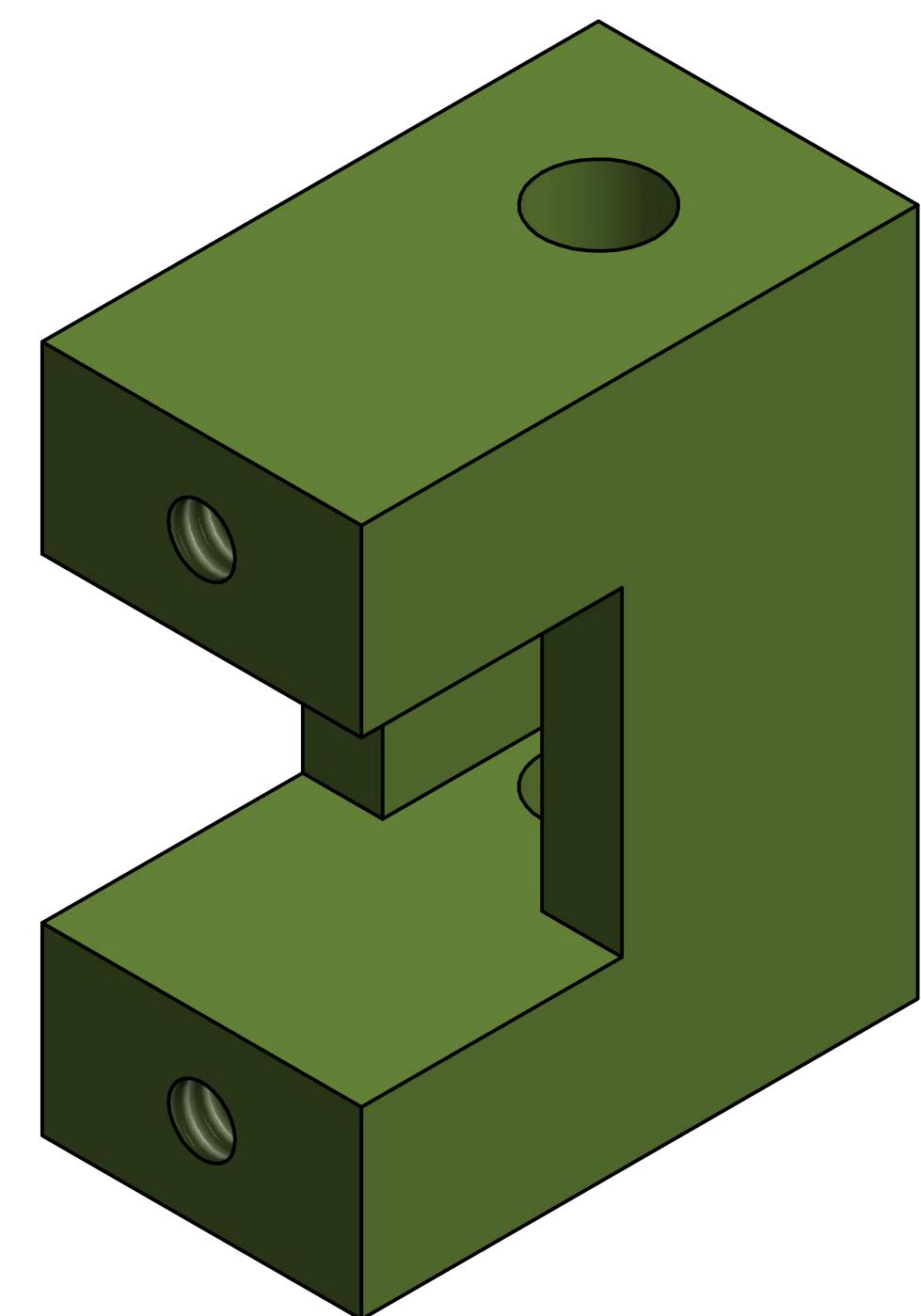
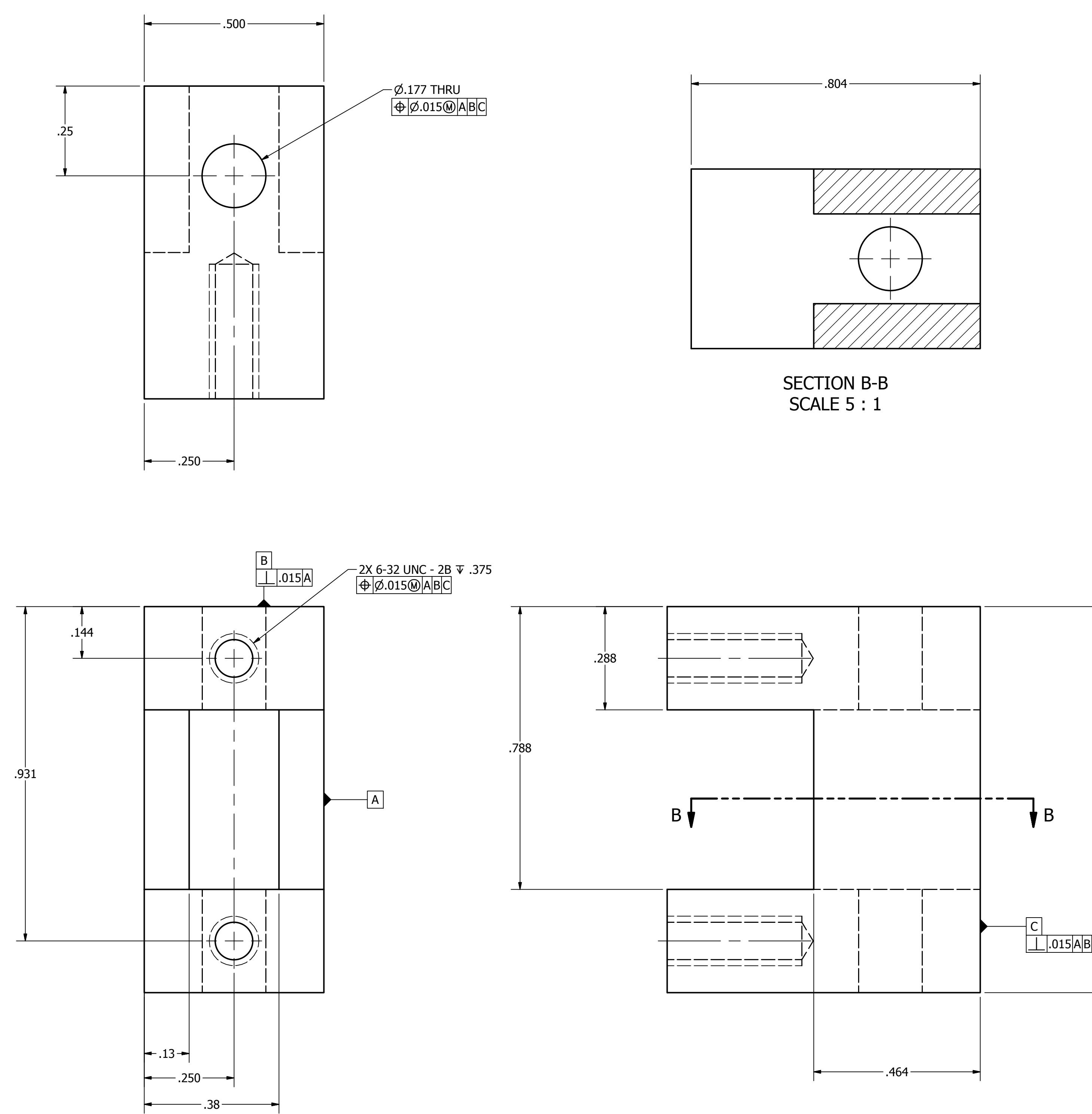
PARTS LIST							
ITEM	QTY	PART NUMBER	DESCRIPTION			SPECIFICATION	
18	2	MGB-298	MICRO GEARMOTOR				
ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATION			
18	2	MGB-298	MICRO GEARMOTOR				
1. MATERIAL:			UNLESS OTHERWISE SPECIFIED	DRAWN:			
			TOLERANCES ON ALL HOLE DIAMETERS	D. DOAN	4/11/2013		
2. FINISH:			UNDER .014 .0	+ .008 -.005	500 THRU 750	+ .008 -.005	CHECKED: O. MIAH
			.014 THRU .125	+ .001 -.001	750 THRU 1,000	+ .001 -.001	4/24/2013
3. WEIGHT:			.126 THRU .250	+ .006 -.004	1,000 THRU 2,000	+ .022 -.016	MFG: M. DELORIO
			251 THRU 500	+ .006 -.004	OVER 2,000	+ .015 -.005	APPROVED: L. LYE
4. NOTES:			1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DIMAL DIMENSIONS: XXX ± .010 XX ± .03 X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± .03° LOCATING ± .03° CHAMFERS ± .5°		SIZE: DWG NO: D 01-10-18 SCALE: 4:1 SUBSYSTEM: SUPERSTRUCTURE SHEET: 1 OF 1



NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM	QTY	PART NUMBER	DESCRIPTION
PARTS LIST			
16	2	90592A016	OTS, METRIC PLAIN STEEL HEX NUT CLASS 8, M6 SIZE, 1MM W, 5MM H
15	3	90633A007	OTS, GRADE 2 STEEL NYLON-INSERT THIN HEX LOCKNUT ZINC-PLATED, 6-32 THREADED SIZE, 5/16" W, 1/8" H
14	3	91251A158	OTS, BLACK-OXIDE STEEL SOCKET HEAD CAP SCREW 6-32 THREAD, 1-3/4" LENGTH
13	6	92910A445	OTS, ALUM UNTHREADED SPACER 1/4" OD, 1/2" LENGTH, #6 SCREW SIZE
12	4	92949A192	OTS, 18-8 SS BUTTON HEAD SOCKET CAP SCREW 8-32 THREAD, 3/8" LENGTH
11	16	91255A108	OTS, ALLOY STEEL BUTTON HEAD SOCKET CAP SCREW 4-40 THREAD, 3/8" LENGTH
10	2	93330A461	OTS, ALUM FEMALE THREADED ROUND STANOFF 1/4" OD, 1-1/4" LENGTH, 4-40 SCREW SIZE
9	2	91115A195	OTS, 18-8 SS FEMALE THREADED HEX STANOFF 1/4" HEX, 1/2" LENGTH, 8-32 SCREW SIZE
8	2	6723K11	OTS, LOW-PROFILE SLEEVE BEARING CARRIAGE UNTHREADED-HOL, FOR 27 MM RAIL WIDTH
7	2	OR001-00311	OTS, X114.7 PROPELLER
6	2	X4108S	OTS, X4108S 600KV MOTOR
5	2	02-10-05	IPT, SHROUDS, MOTOR MOUNT
4	2	02-10-04	IPT, SHROUDS, MIDDLE SHROUD SLIDER MOUNT
3	1	02-10-03	IPT, SHROUDS, MIDDLE ROTOR TOP SUPPORT PLATE
2	1	02-10-02	IPT, SHROUDS, MIDDLE ROTOR SUPPORT PLATE
1	2	02-10-01	IPT, SHROUDS, HORIZONTAL LEADScrew INSERT

MATERIAL:	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN : J. FIGUEROA 4/11/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES
FINISH:	UNDER .014 .0 +.000 -.000 500 THRU .750 +.008 -.002 .014 THRU .125 -.001 .750 THRU 1.000 +.005 -.003 .126 THRU .250 +.006 -.001 1.000 THRU 2.000 +.022 -.002 MFG: M. DELORIO 4/24/2013	CHECKED: O. MIAH 4/24/2013	
WEIGHT:	1.060 LBS. 251 THRU 500 +.006 -.001 OVER 2.000 +.015 -.005 APPROVED: L. LY 4/24/2013	DO: D. DOAN 4/24/2013	
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DERNAL DIMENSIONS: XXX ±.010 XX ±.03 X ±.1	ON ANGULAR DIMENSIONS: MACHINED: ±.03° LOCATING: ±.03° CHAMFERS: ±.5°	ASSY, SHROUDS, MIDDLE SHROUD
SIZE: DWG NO: D 02-1000 REV: - SCALE: 1:1 SUBSYSTEM: SHROUDS SHEET: 1 OF 1	DELTA TECHNOLOGIES		



NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

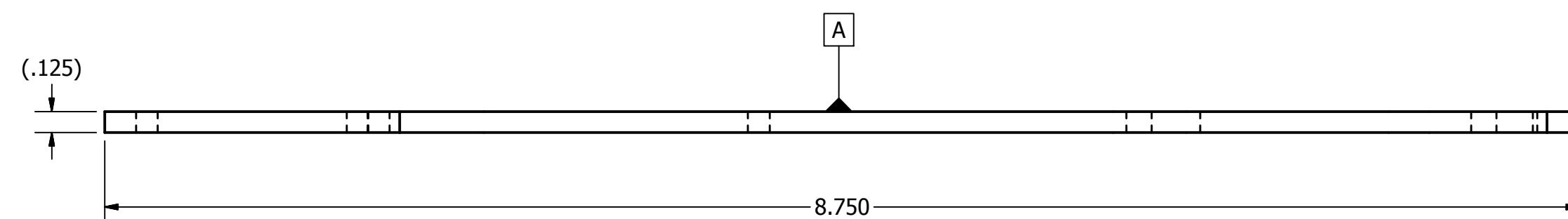
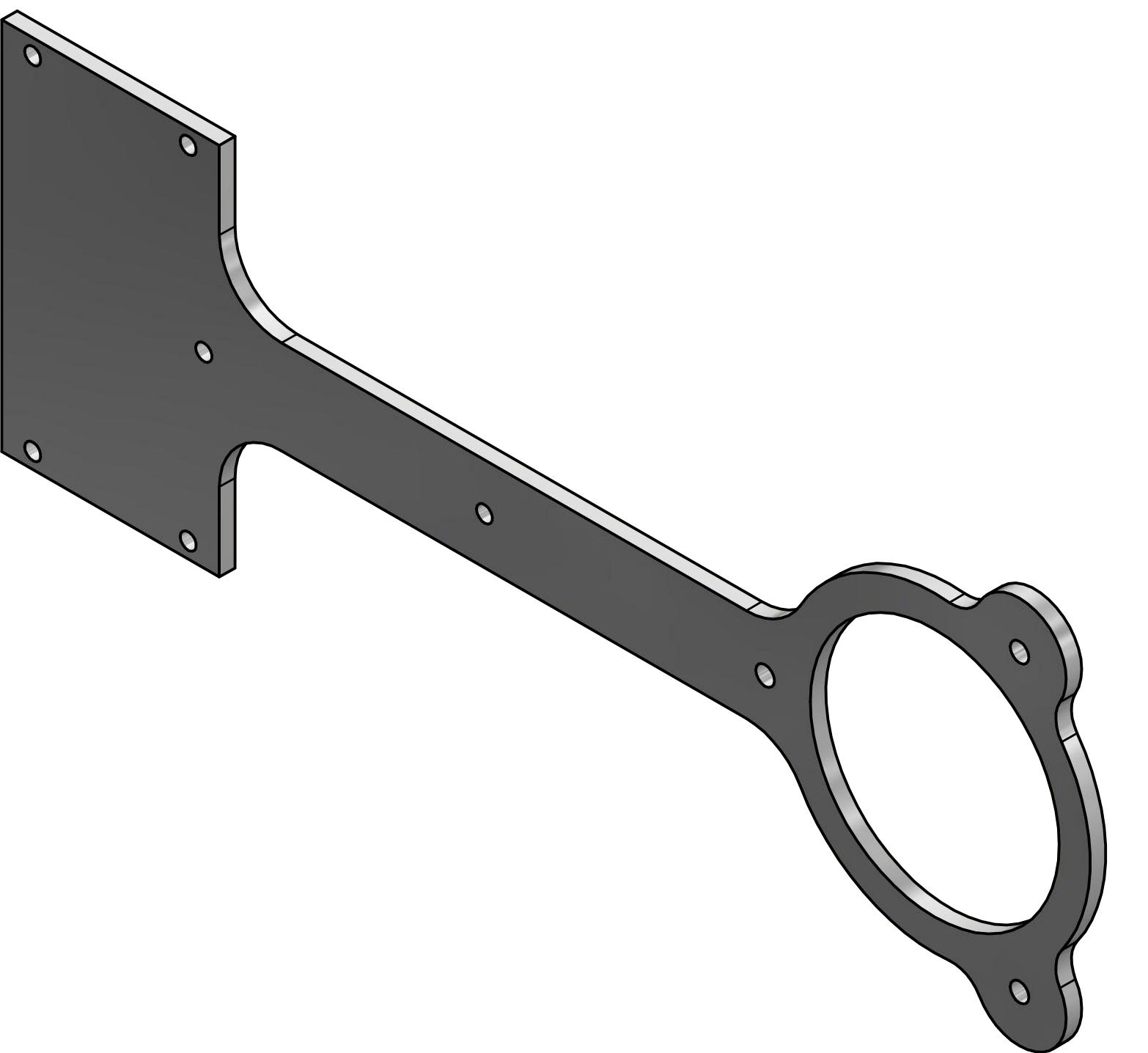
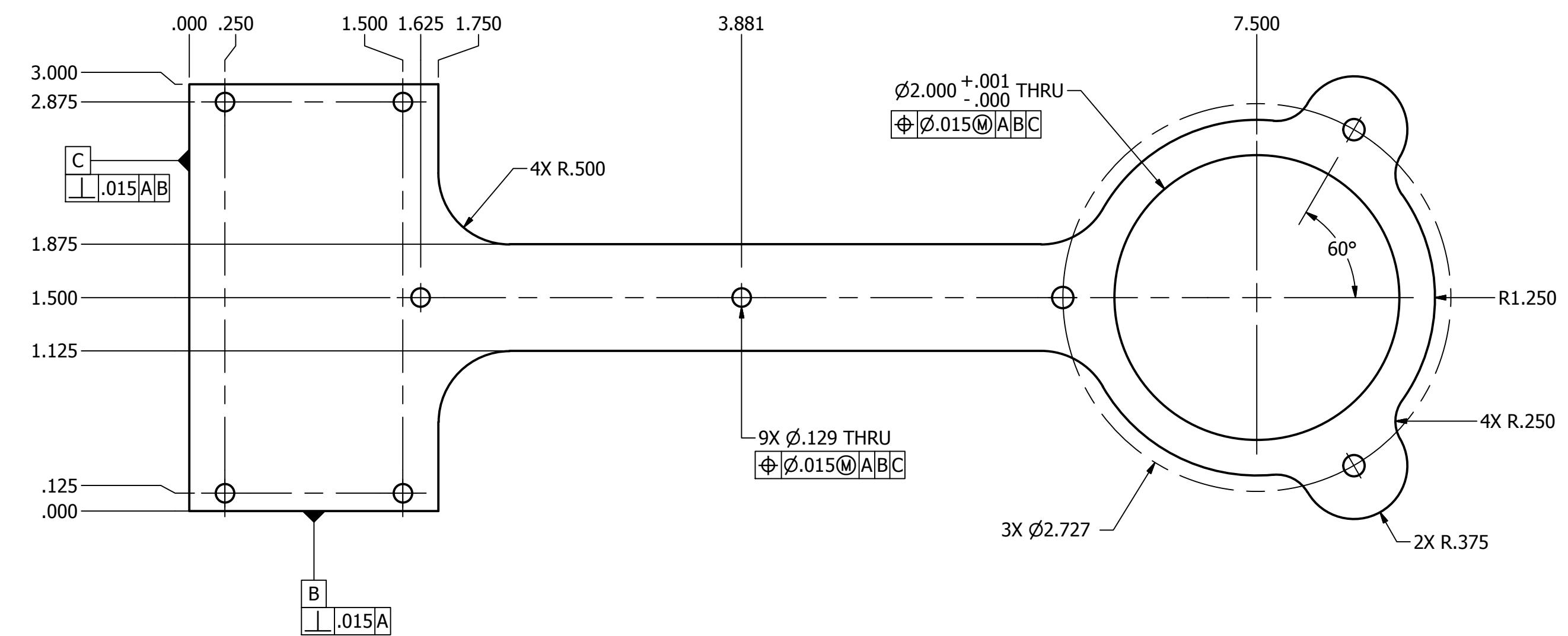
ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATION
MATERIAL:			UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN: J. FIGUEROA 4/11/2013 CHECKED: O. MIAH 4/24/2013
ABS PLASTIC			UNDER .014 0 +.000 -.005 500 THRU 750 +.008 -.002	DESIGNER: D. DOAN 4/24/2013
FINISH:			.014 THRU .125 -.001 .750 THRU 1.000 +.005 -.003	MANUFACTURER: M. DELORIO 4/24/2013
WEIGHT:			.126 THRU .250 +.006 -.001 1.000 THRU 2.000 +.022 -.002	APPROVED: L. LY 4/24/2013
0.01 LBS.			251 THRU 500 +.006 -.001 OVER 2.000 +.025 -.005	
1. DO NOT SCALE DRAWING. 2. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.			ON DIMAL DIMENS. XXX ±.010 XX ±.03 X ±.1	ON ANGULAR DIMENS. MACHINED ±.03° LOCATING ±.03° CHAMFERS ±.5°
				REV: -
				SIZE: DWG NO: D 02-1001
				SCALE: 5:1 SUBSYSTEM: SHROUDS SHEET: 1 OF 1

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PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

LESS OTHERWISE SPECIFIED
TENSIONING AND TOLERANCING PER ASME Y14.5M-1995

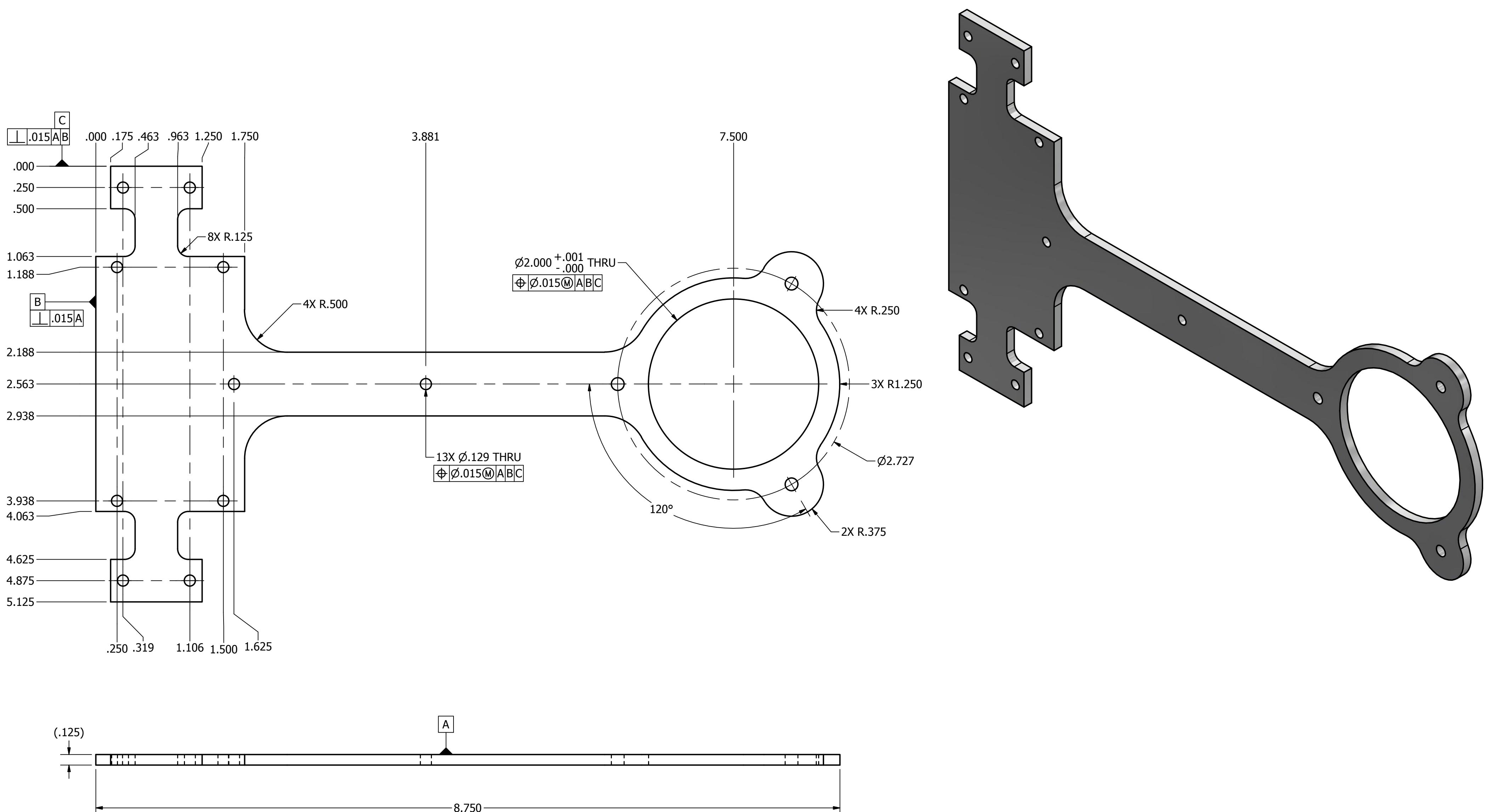
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995



2	1	02-10-02	MIDDLE ROTOR SUPPORT PLATE					
ITEM	QTY	PART NUMBER		DESCRIPTION				SPECIFICATION
MATERIAL: ALUMINUM 6061		UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS			DRAWN: J. FIGUEROA	4/11/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES	
		UNDER .014	.0020 .0005	.500 THRU .750	CHECKED: O. MIAH	4/24/2013		
		.014 THRU .125	.004 .001	.751 THRU 1.000	QA: D. DOAN	4/24/2013		
		.126 THRU .250	.005 .001	1.000 THRU 2.000	MFG: M. DELORIO	4/24/2013		
WEIGHT: 0.136 LBS.		.251 THRU .500	.006 .001	OVER 2.000	APPROVED: L. LY	4/24/2013		
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.			ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°	 DELTA TECHNOLOGIES		TITLE: IPT, SHROUDS, MIDDLE ROTOR SUPPORT PLATE	
					SIZE: D	DWG NO: 02-10-02	REV: -	
					SCALE: 5:4	SUBSYSTEM: SHROUDS	SHEET: 1 OF 1	

8 7 6 5 4 3 2 1
I I I I I I I I
REVISION HISTORY
REV DESCRIPTION APPROVED
--- --- ---

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

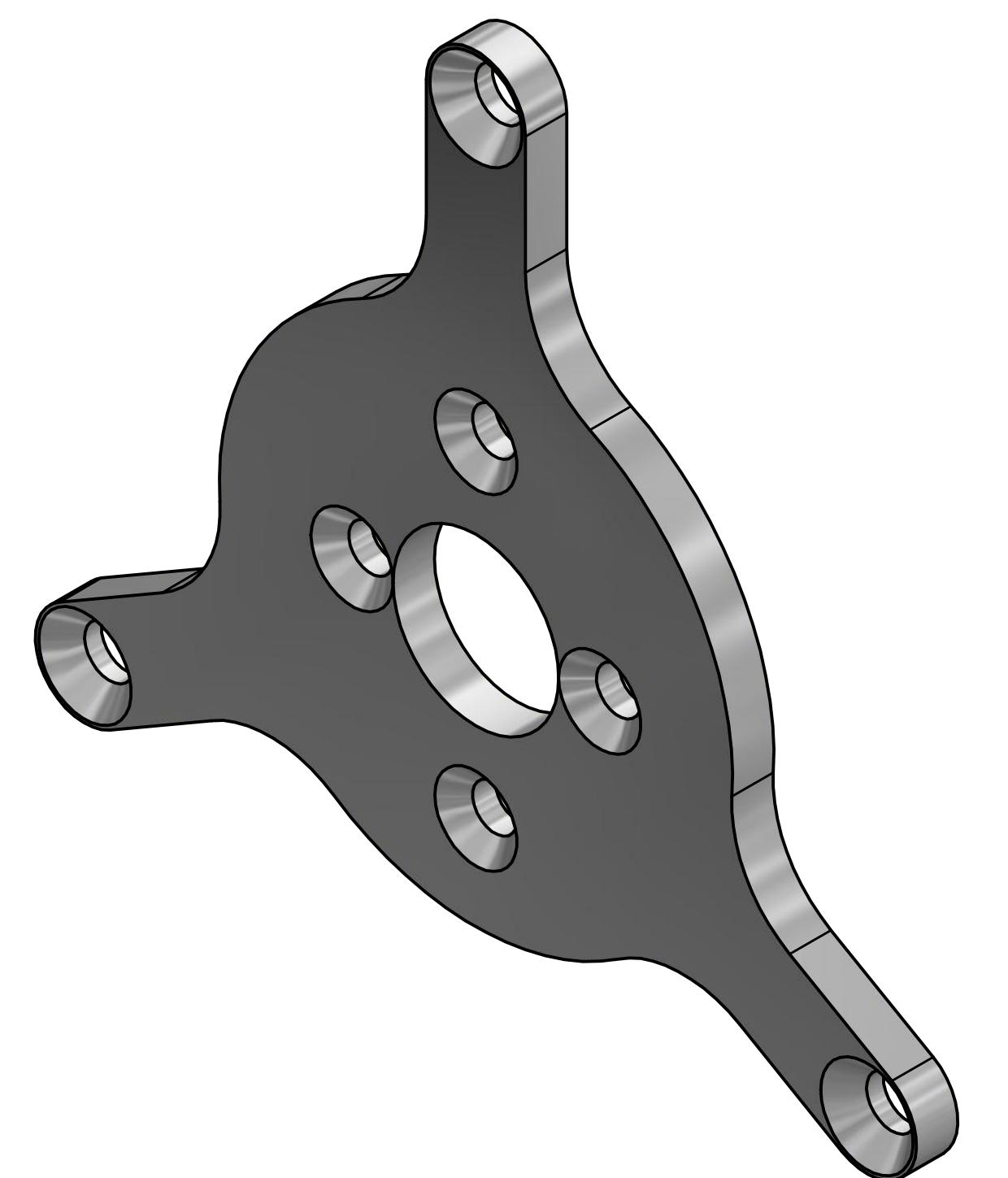
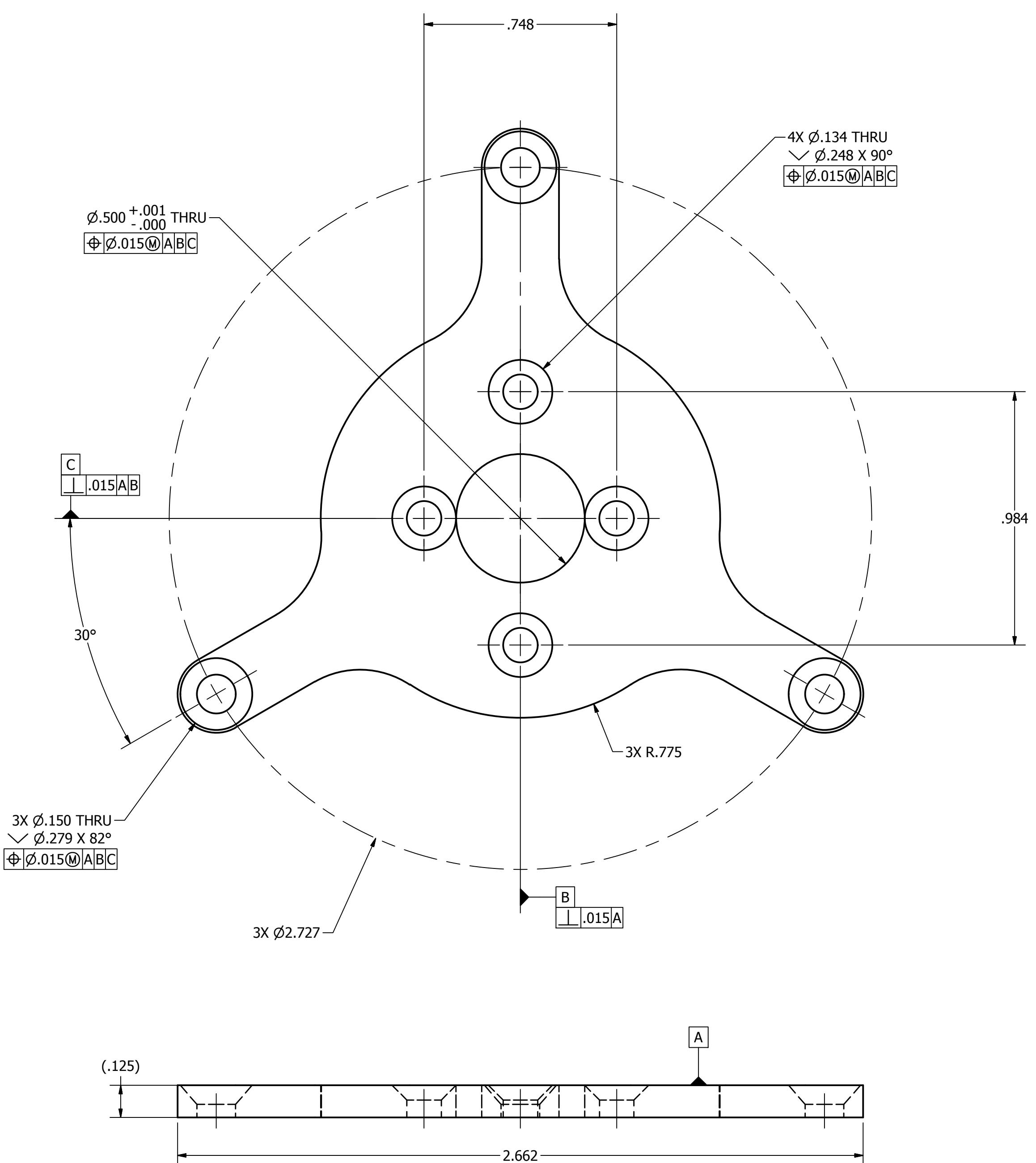
ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATIONS
3	1	2-10-03	MIDDLE ROTOR TOP SUPPORT PLATE	
ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATIONS
1	1	2-10-03	MIDDLE ROTOR TOP SUPPORT PLATE	
NOTE: UNLESS OTHERWISE SPECIFIED				
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995				
2. DO NOT SCALE DRAWING.			ON DIMAL DIMNS:	
3. INTERPRET PER ASME Y14.5M-1995			XXX ±.010	
4. REMOVE BURS AND SHARP EDGES.			XX ±.03	
			X ±.1	
			ON ANGULAR DIMNS: MACHINED ±.30° LOCATING ±.03° CHAMFERS ±.5°	
			DRAWN: J. FIGUEROA CHECKED: O. MIAH 4/11/2013 4/24/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES
			DESIGNER: D. DOAN 4/11/2013 4/24/2013	
			APPROVED: M. DELORIO 4/24/2013 L. LYE 4/24/2013	TITLE: IPT, SHROUDS, MIDDLE ROTOR TOP SUPPORT PLATE
			SIZE: DWG NO: D 2-10-03 SCALE: 5:4 SUBSYSTEM: SHROUDS SHEET: 1 OF 1	REV: -

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PRODUCED BY AN AUTODESK® EDUCATIONAL PRODUCT

A **NOTES: UNLESS OTHERWISE SPECIFIED**

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

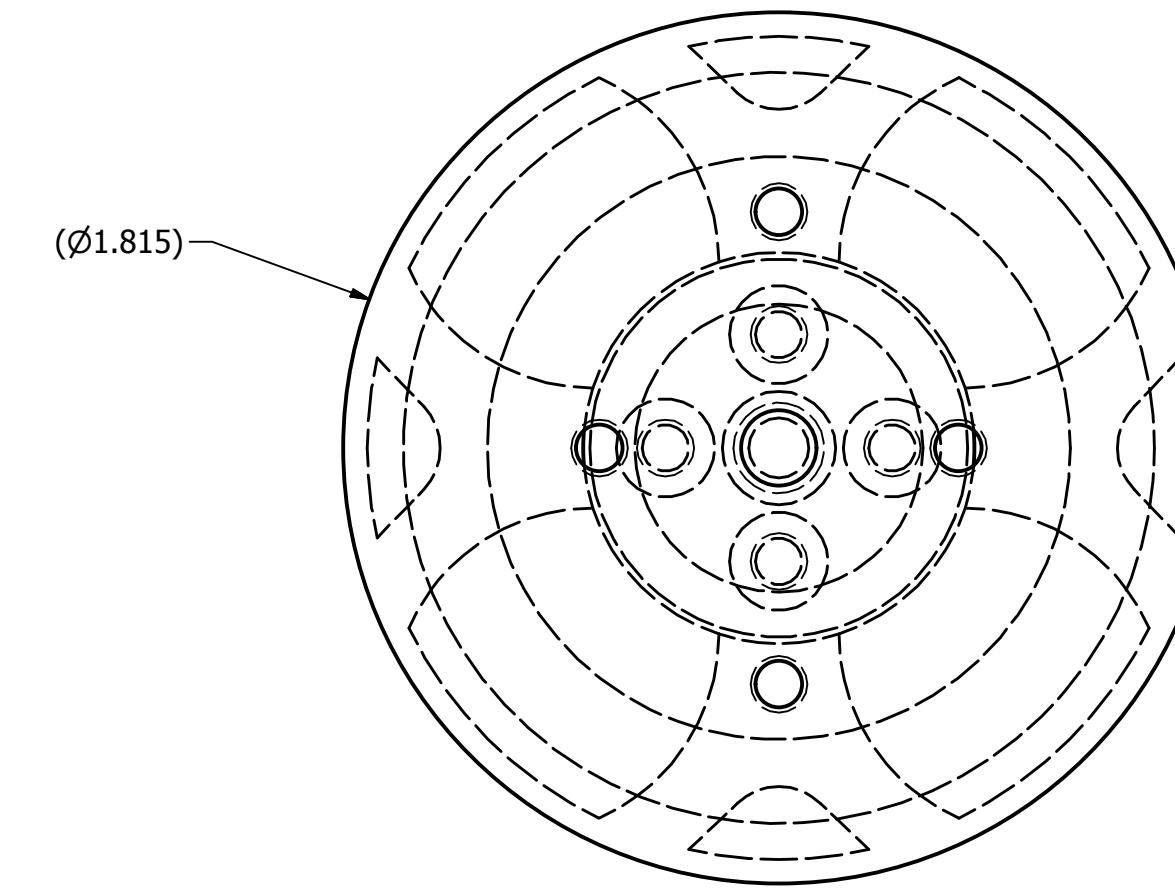
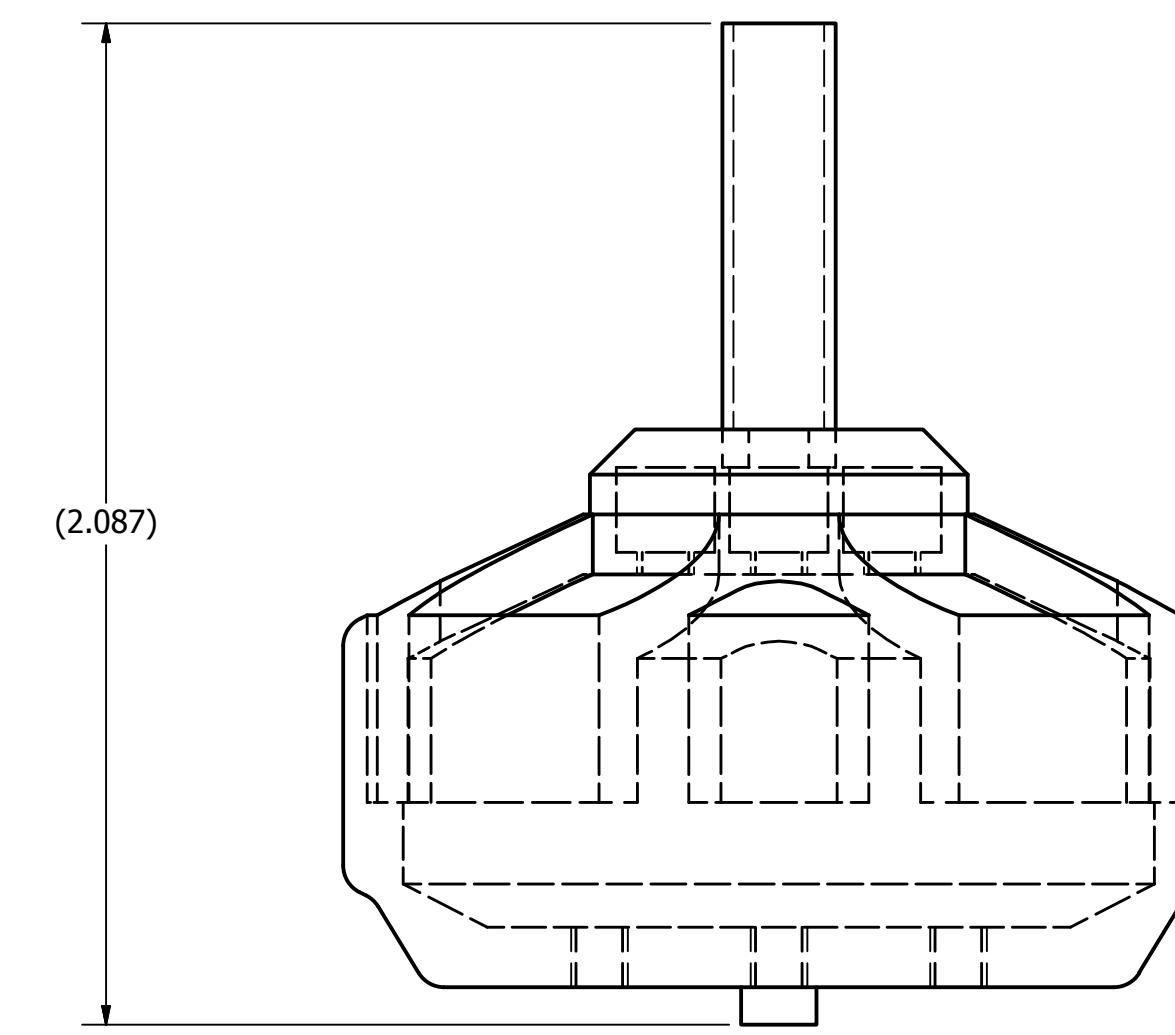


1	1	02-10-05	MOTOR MOUNT							
ITEM	QTY	PART NUMBER			DESCRIPTION			SPECIFICATION		
ATERIAL:	ALUMINUM 6061		UNLESS OTHERWISE SPECIFIED			DRAWN :	J. FIGUEROA			
			TOLERANCES ON ALL HOLE DIAMETERS			CHECKED :				
NISH:			UNDER .014	.014	.020 -.005	.500 THRU .750	.008 -.001	O. MIAH		
EIGHT:			.14 THRU .125	.14 THRU .125	.004 -.001	.751 THRU 1.000	.010 -.001	QA : D. DOAN		
	0.053 LBS.		.126 THRU .250	.126 THRU .250	.005 -.001	1.000 THRU 2.000	.012 -.001	MFG : M. DELORIO		
			.251 THRU .500	.251 THRU .500	.006 -.001	OVER 2.000	.015 -.005	APPROVED : L. LY		
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.			ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°	 DELTA TECHNOLOGIES	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES				
					TITLE :	IPT, SHROUDS, MOTOR MOUNT				
					SIZE : D	DWG NO : 02-10-05	REV : -			
					SCALE : 3:1	SUBSYSTEM : SHROUDS	SHEET : 1 OF 1			

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PRODUCED BY AN AUTODESK® EDUCATIONAL PRODUCT

SUGGESTED SOURCE OF SUPPLY		
CAGE	PART NO.	NAME + ADDRESS
N/A	X4108S	OMGFLY myomgfly@gmail.com



SOURCE CONTROL DRAWING

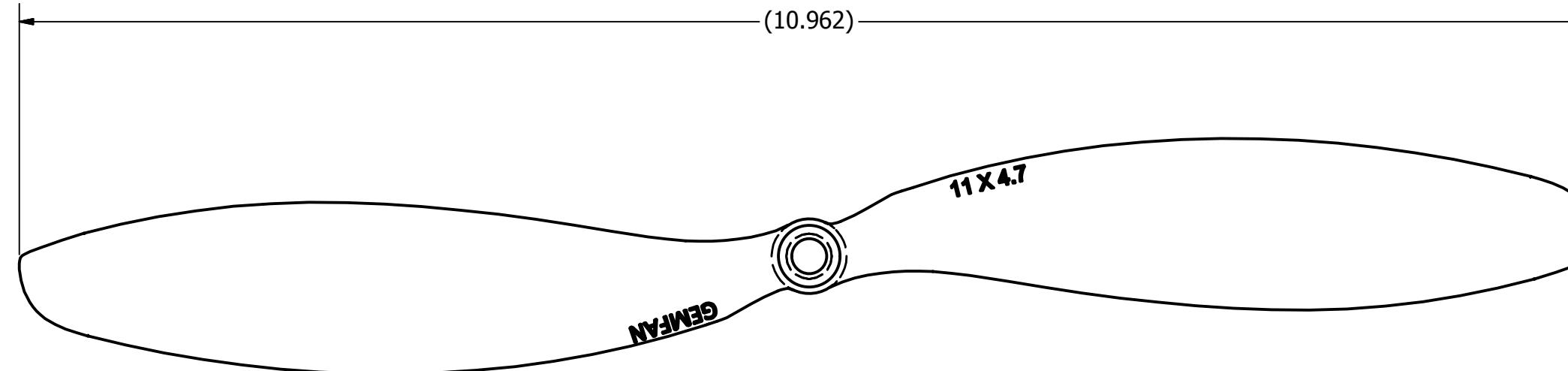
6	2	X4108S	600KV MOTOR						
ITEM	QTY	PART NUMBER	DESCRIPTION				SPECIFICATION		
MATERIAL:		UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS			DRAWN : J. FIGUEROA	4/11/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES		
		UNDER .014	.0	+ .0020 -.0005	.500 THRU .750	+ .008 -.001		CHECKED : O. MIAH	4/24/2013
FINISH:		.014 THRU .125		+ .004 -.001	.751 THRU 1.000	+ .010 -.001		QA : D. DOAN	4/24/2013
		.126 THRU .250		+ .005 -.001	1.000 THRU 2.000	+ .012 -.001		MFG : M. DELORIO	4/24/2013
WEIGHT:		0.22 LBS.	.251 THRU .500	+ .006 -.001	OVER 2.000	+ .018 -.005		APPROVED: L LY	4/24/2013
								TITLE : OTS, 600KV MOTOR	
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5'	 DELTA TECHNOLOGIES		SIZE : D		DWG NO : 02-10-06	REV : -
				SCALE : 5:2	SUBSYSTEM : SHROUDS	SHEET : 1 OF 1			

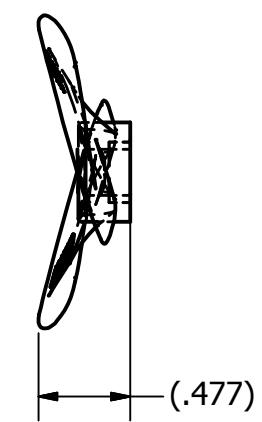
NOTES: UNLESS OTHERWISE SPECIFIED

1 INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

8	I	7	I	6	I	5	SUGGESTED SOURCE OF SUPPLY CAGE PART NO. NAME + ADDRESS	4	I	3	I	2	I	1
D							N/A 9329000032 Hobby King 10011 Bridgeport Way Lakewood, WA 98499	D						REVISION HISTORY REV DESCRIPTION APPROVED

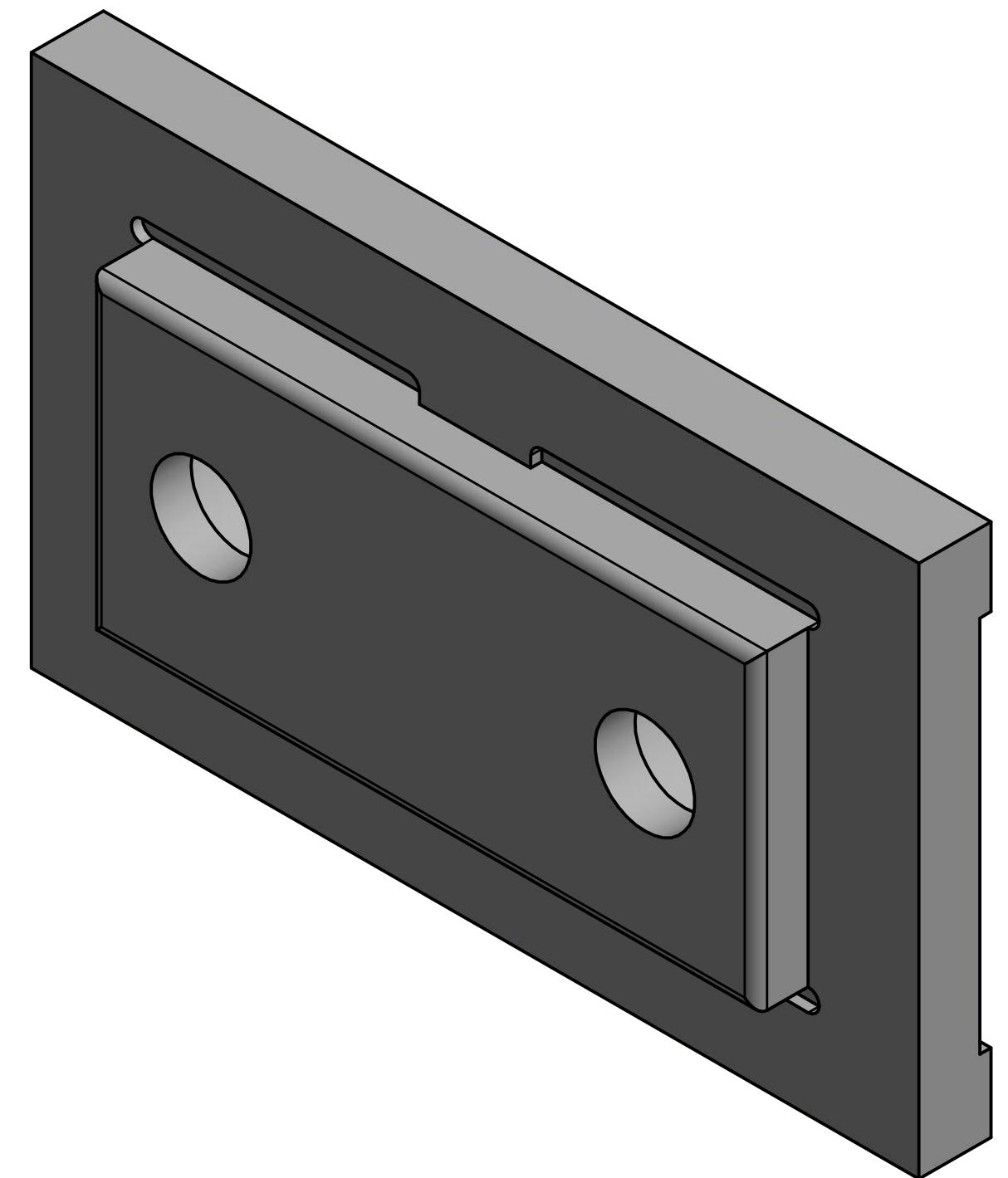
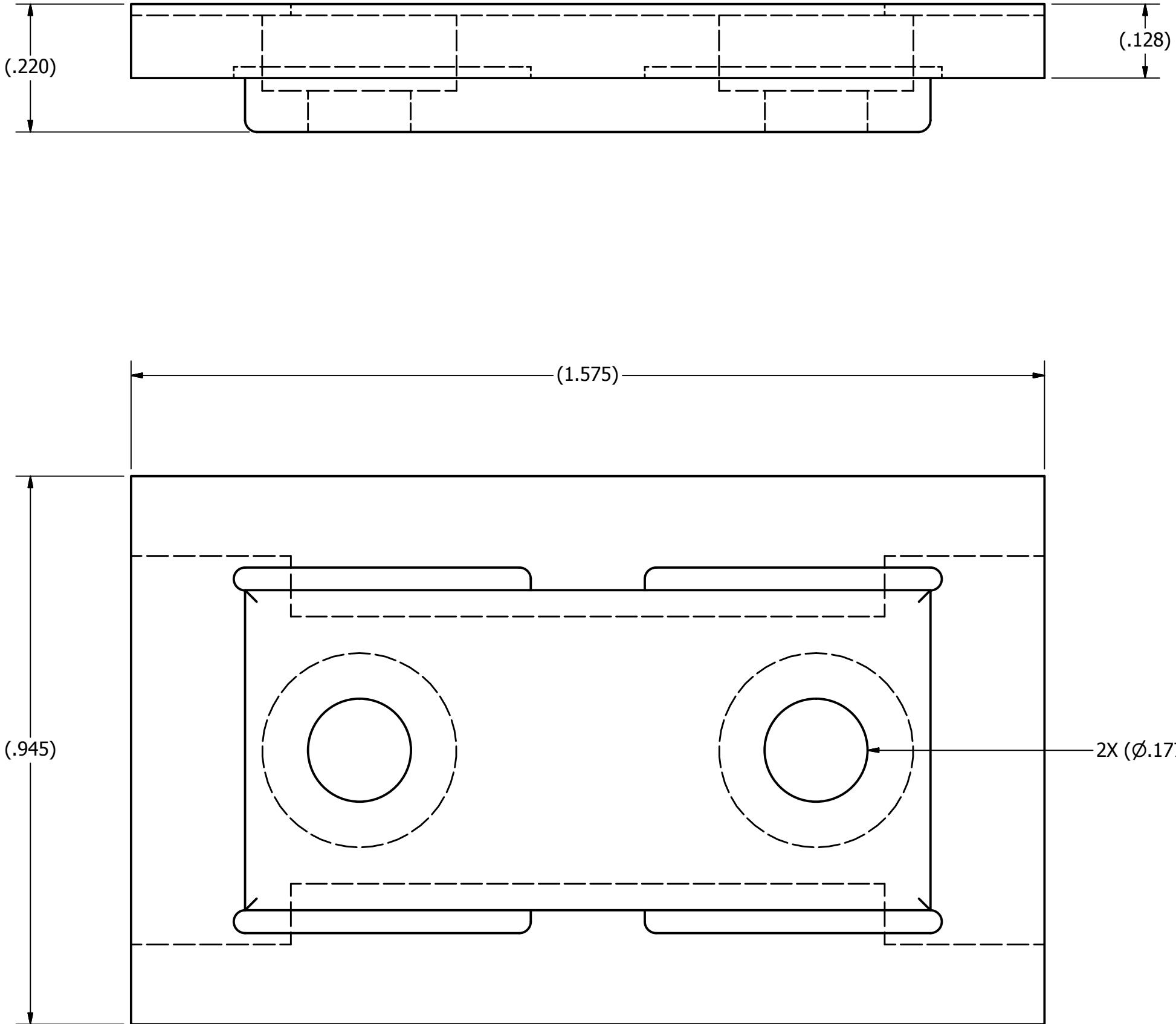


 (10.962) (11x4.7)
GERMAN

 (.477)

SOURCE CONTROL DRAWING

NOTES: UNLESS OTHERWISE SPECIFIED	11X4.7 PROPELLER													
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995	SPECIFICATION													
ITEM QTY PART NUMBER OR001-00311 DESCRIPTION														
MATERIAL:		FINISH:		WEIGHT:		DRAWN: J. FIGUEROA 4/11/2013		CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES						
											UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS		CHECKED: O. MIAH 4/24/2013	
											UNDER .014 .000 .005 500 THRU 750		.008 .005	
											.014 THRU .125 .001 750 THRU 1,000		.005 .003	
FINISH:		.126 THRU .250 .006 1,000 THRU 2,000		.032 .022		MFG: M. DELORIO 4/24/2013								
									.126 THRU .250 .006 1,000 THRU 2,000		.032 .022			
WEIGHT:		.251 THRU .500 .006 OVER 2,000		APPROVED: L. LYE 4/24/2013		TITLE: OTS, 11X4.7 PROPELLER								
									.251 THRU .500 .006 OVER 2,000		.035 .025			
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.														
ON DIMAL DIMENSIONS: XXX ± .010 XX ± .03 X ± .1		ON ANGULAR DIMENSIONS: MACHINED ± .03° LOCATING ± .03° CHAMFERS ± .5°		DRAWN NO: D 02-10-07										
REV: -														
SCALE: 1:1 SUBSYSTEM: SHROUDS SHEET: 1 OF 1														



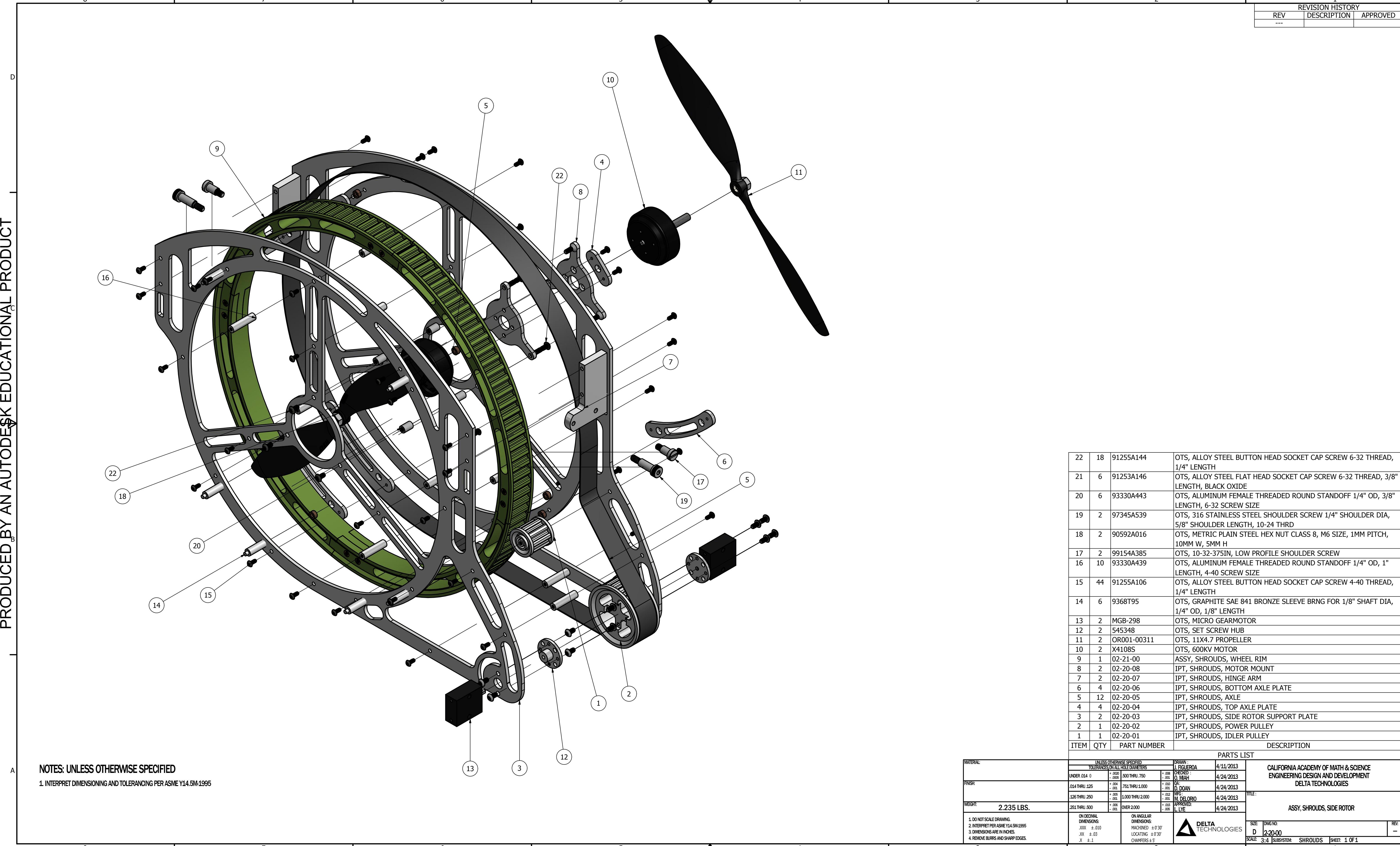
NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

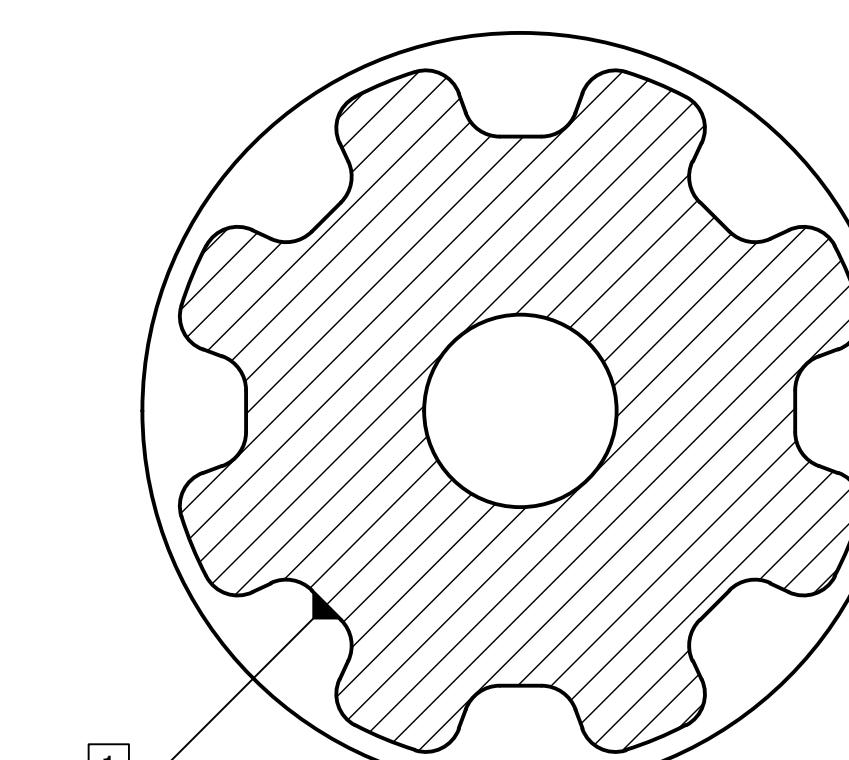
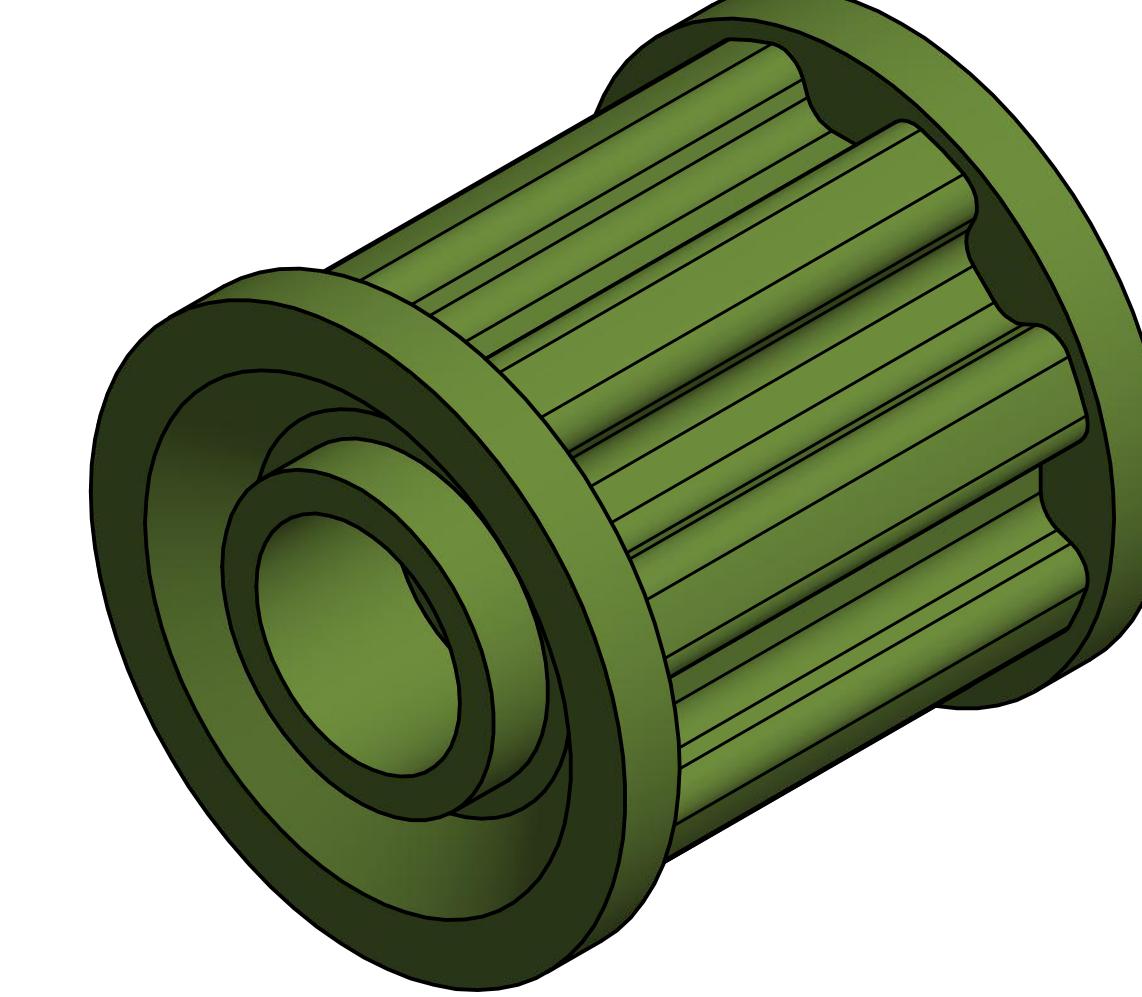
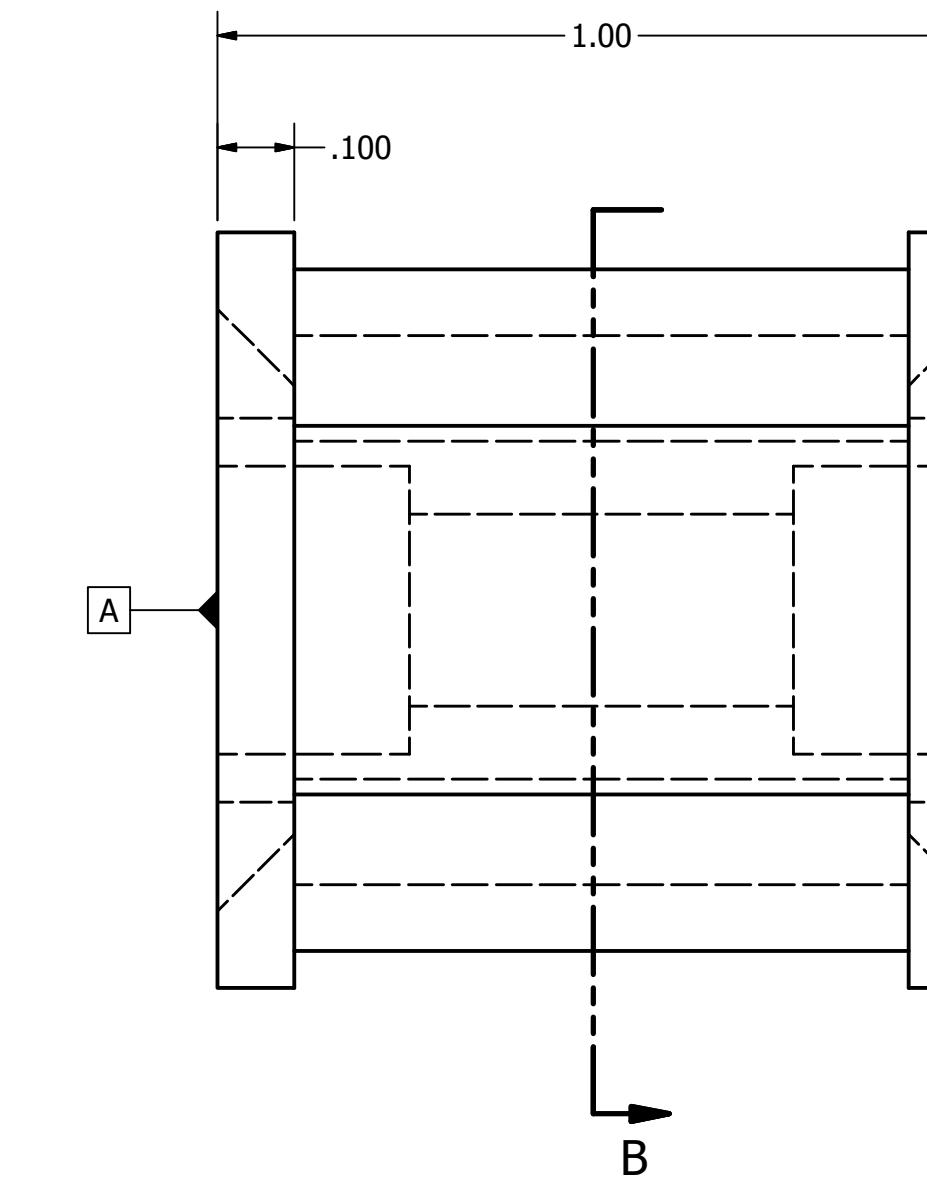
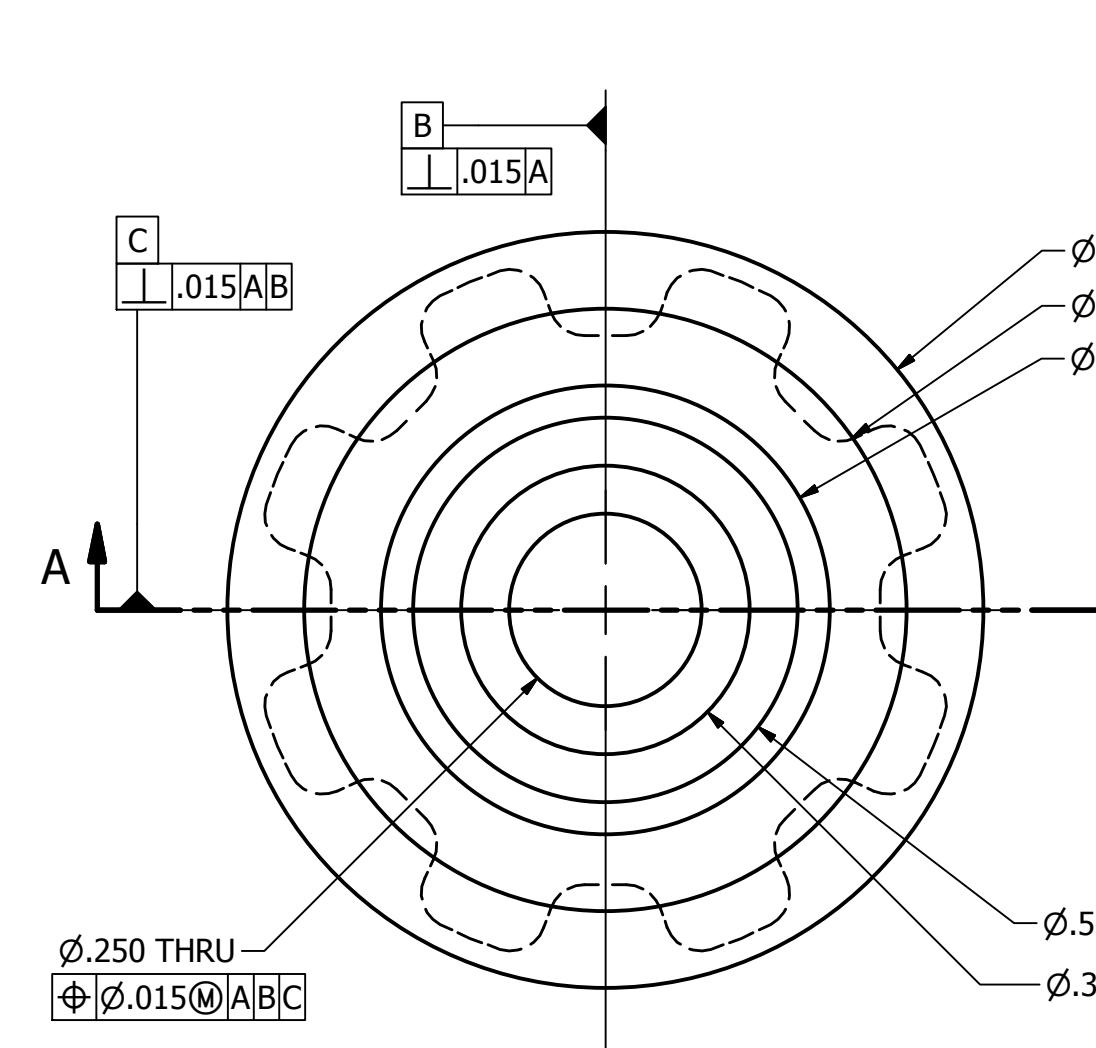
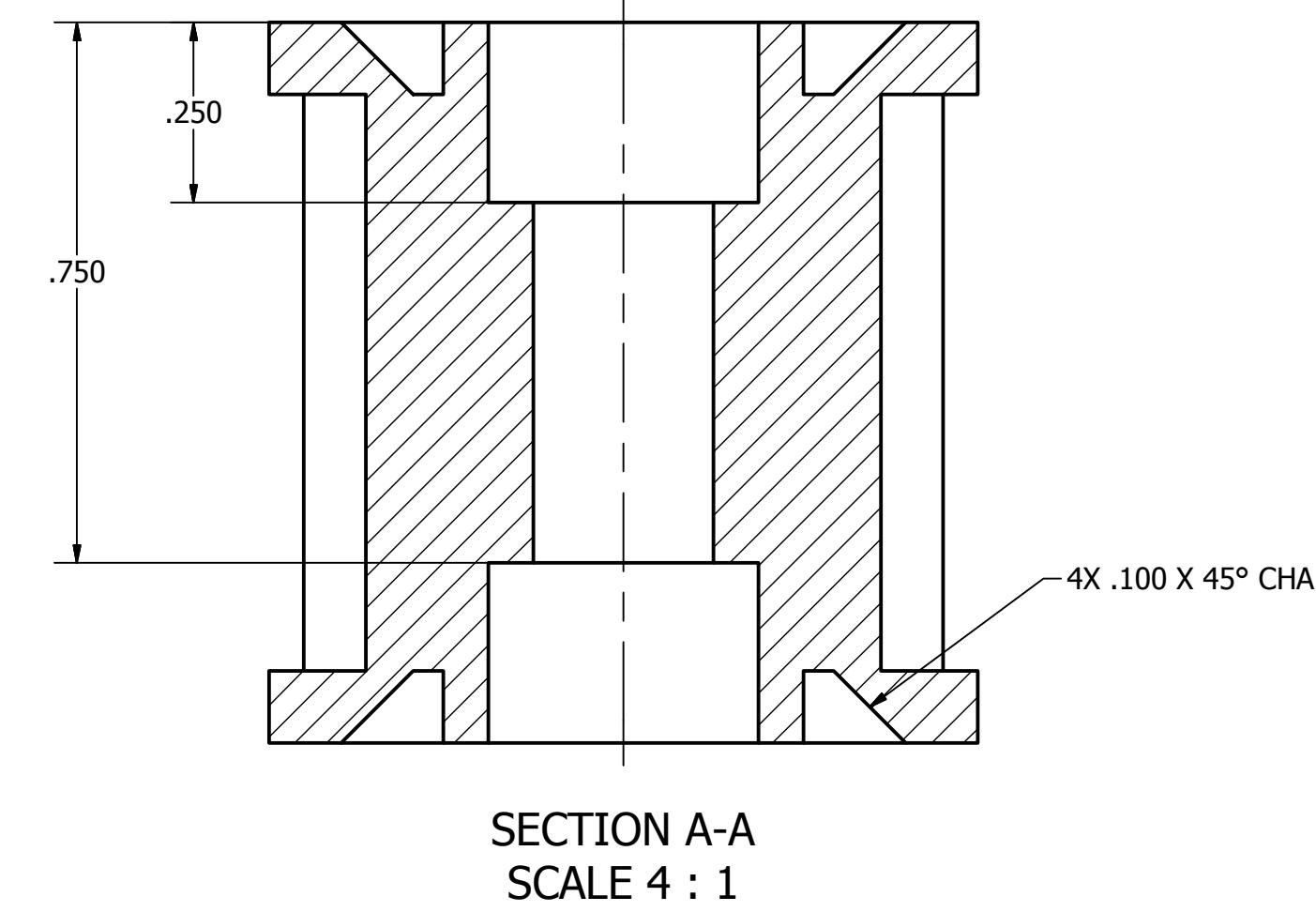
SUGGESTED SOURCE OF SUPPLY		
CAGE	PART NO.	NAME + ADDRESS
N/A	6723K11	McMaster-Carr 9630 Norwalk Blvd. Santa Fe Springs, CA 90670 (562) 692-5911 la.sales@mcmaster.com

REVISION HISTORY		
REV	DESCRIPTION	APPROVED
-	-	-

SOURCE CONTROL DRAWING

ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATION
5	2	6723K11	LOW-PROFILE CARRIAGE	
MATERIAL:		UNLESS OTHERWISE SPECIFIED	DRAWN:	
		TOLERANCES ON ALL HOLE DIAMETERS	CHECKED:	
FINISH:		UNDER .014 0 +.000 -.000 500 THRU .750 +.008 -.002	J. FIGUEROA	4/11/2013
		.014 THRU .125 -.001 .750 THRU 1.000 -.001	O. MIAH	4/24/2013
		.126 THRU .250 +.006 -.004 1.000 THRU 2.000 +.032 -.003	D. DOAN	4/24/2013
WEIGHT:	0.007 LBS.	251 THRU 500 +.006 -.004 OVER 2.000 +.055 -.005	M. DELORIO	4/24/2013
		APPROVED L. LYE		4/24/2013
TITLE: OTS, LOW-PROFILE CARRIAGE				
CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES				
SIZE: DWG NO:	D 02-1005	ON DIMENSION:	ON ANGULAR DIMENSIONS:	REV: -
SCALE: 5:1	SUBSYSTEM: SHROUDS	XXX ±.010	MACHINED ±.030° LOCATING ±.030° CHAMFERS ±.5°	DELTA TECHNOLOGIES
		XX ±.03	X ±.1	

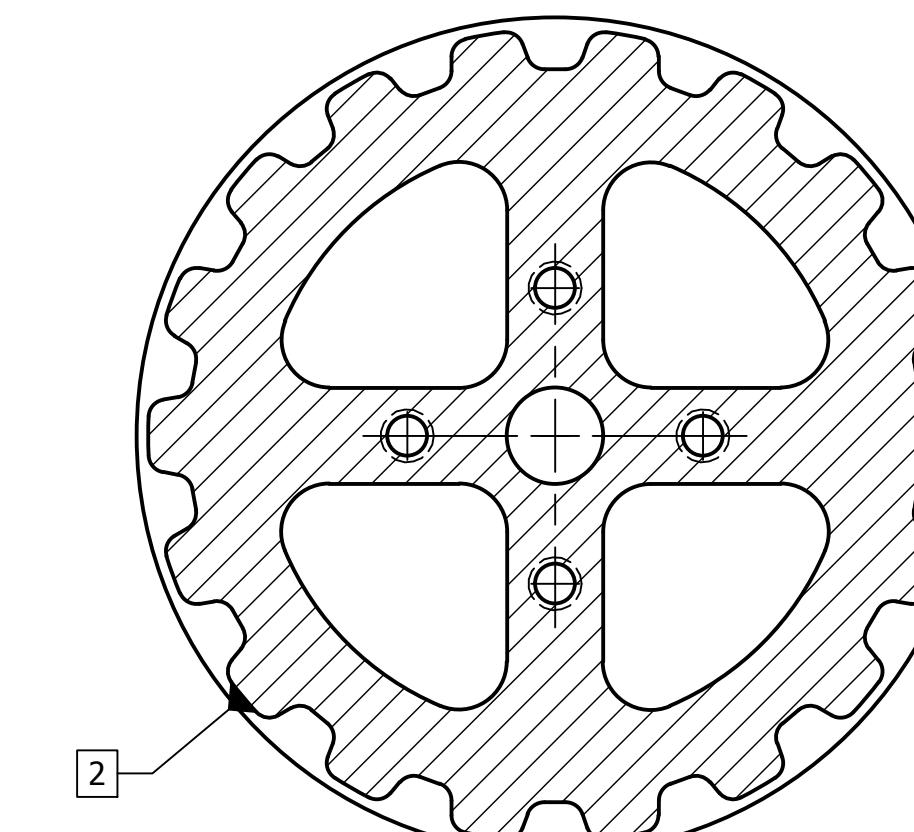
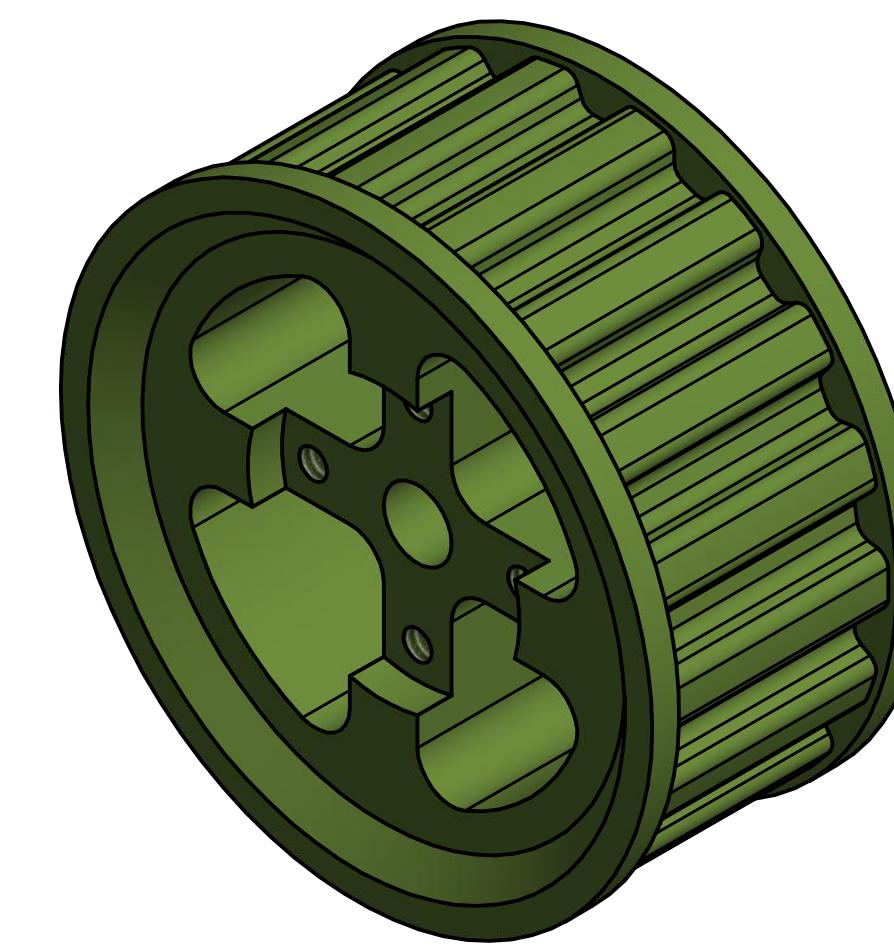
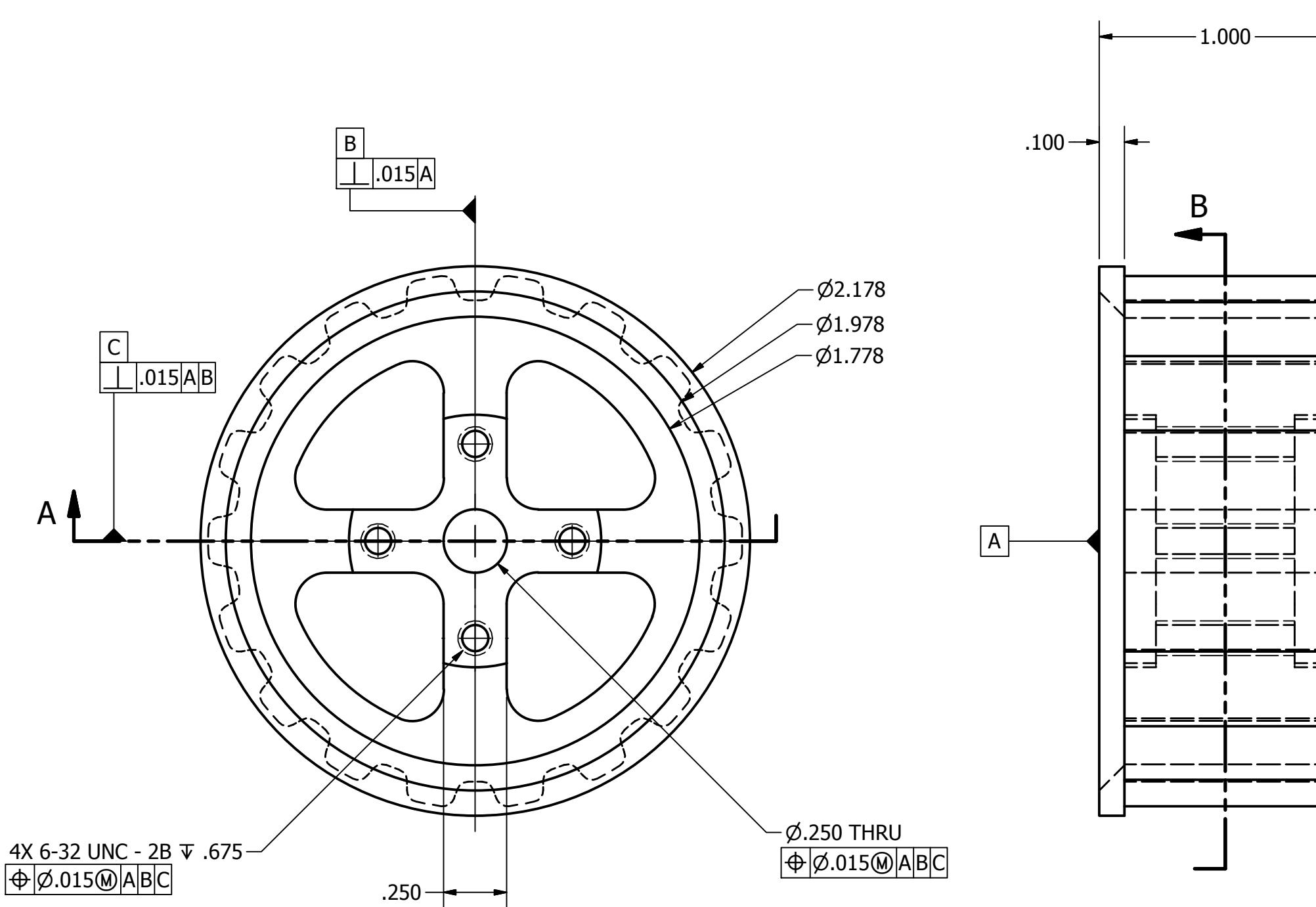
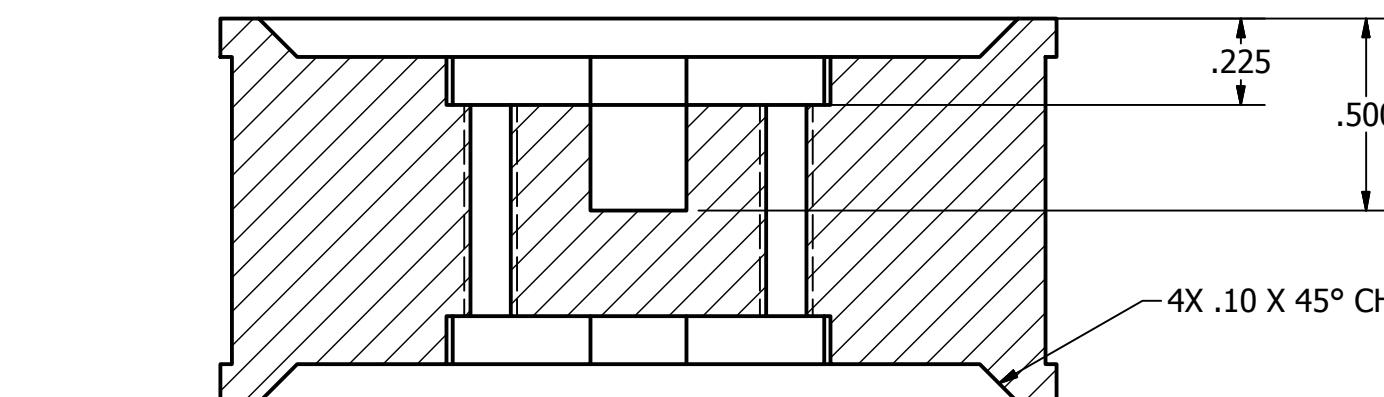




SECTION B-B
SCALE 4 : 1

NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995
2. 3/8 IN L TIMING BELT PROFILE

ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATIONS
1	1	02-20-01	IDLER PULLEY	
MATERIAL:		UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN: J. FIGUEROA 4/11/2013	
FINISH:	ABS PLASTIC	UNDER .014 .000 .014 THRU .125 -.001 .126 THRU .250 -.001	CHECKED: O. MIAH 4/24/2013 D. DOAN 4/24/2013 M. DELORIO 4/24/2013	
WEIGHT:	0.018 LBS.	251 THRU 500 -.006 OVER 2,000 -.005	APPROVED: L. LYE 4/24/2013	
		1. DO NOT SCALE DRAWING. 2. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DIMAL DIMENS. XXX ±.010 XX ±.03 X ±.1	ON ANGULAR DIMENS. MACHINED ±.30° LOCATING ±.03° CHAMFERS ±.5°
				DELTA TECHNOLOGIES
				SIZE: DWG NO: D 02-20-01 REV: -
				SCALE: 4:1 SUBSYSTEM: SHROUDS SHEET: 1 OF 1

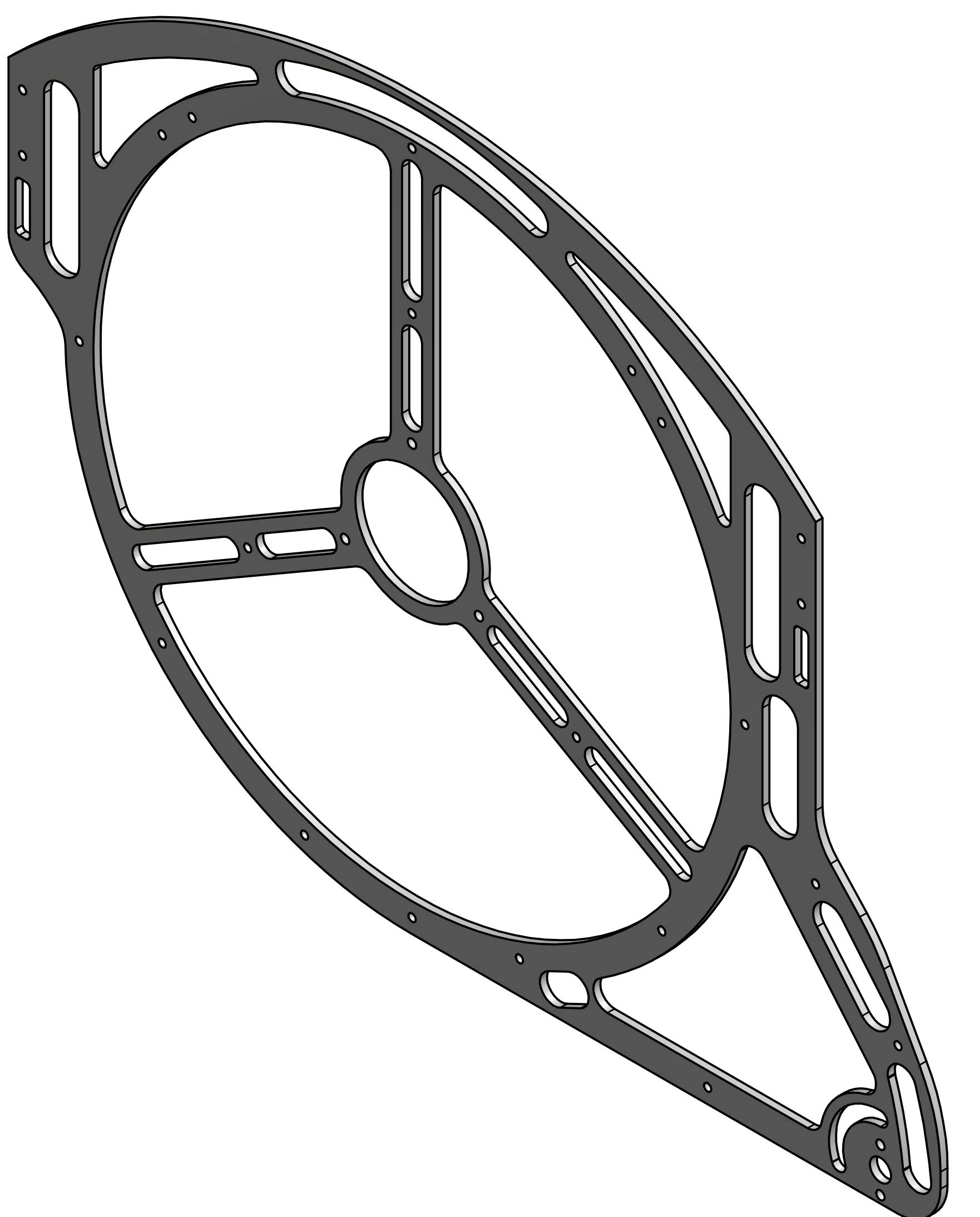
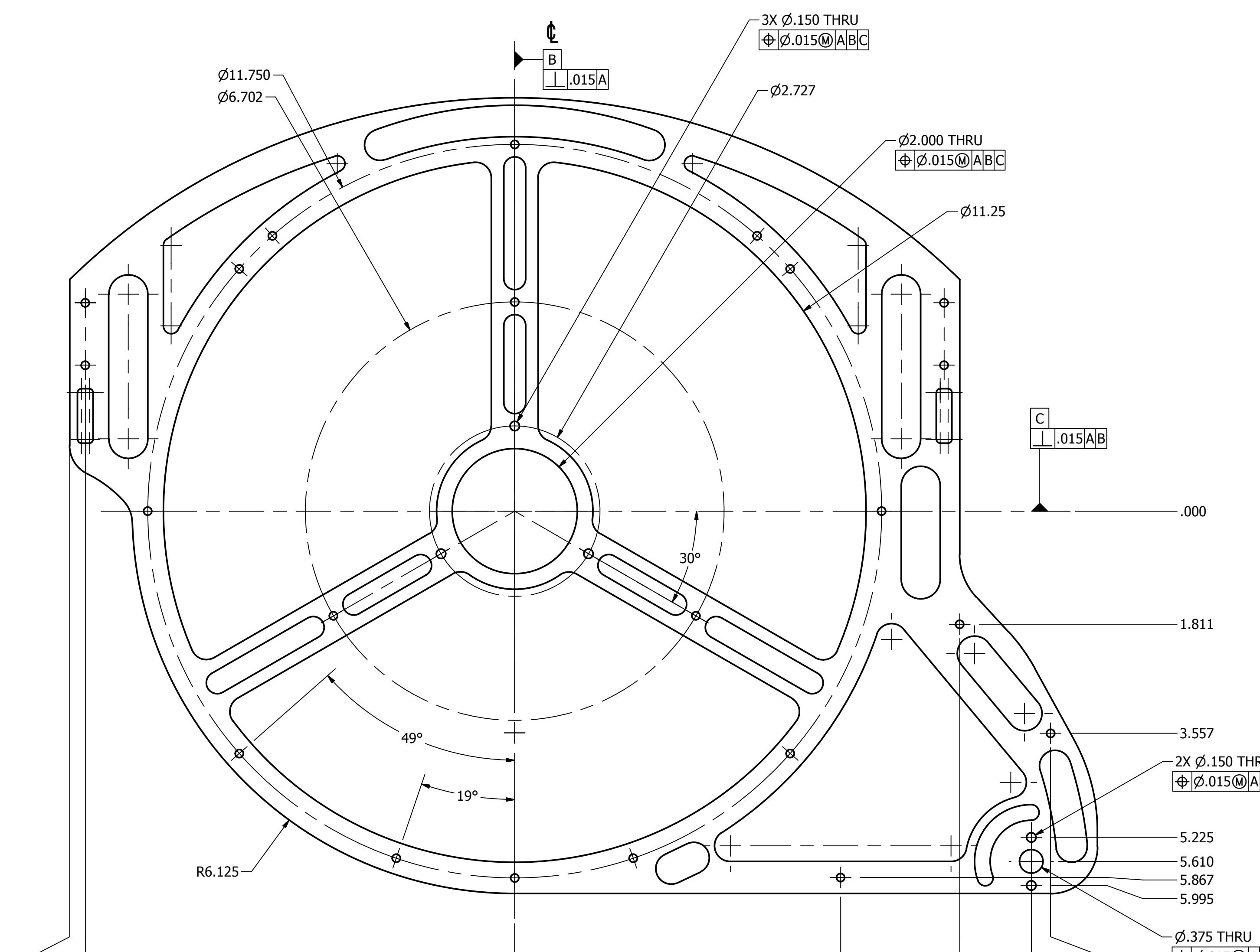


NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995
2. 3/8 IN L TIMING BELT PROFILE

ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATIONS
2	1	02-20-02	POWER PULLEY	
MATERIAL:		UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN: J. FIGUEROA 4/11/2013	
FINISH:		ABS PLASTIC	CHECKED: O. MIAH 4/24/2013	
WEIGHT:		UNDER .014 0 + .008 .014 THRU .125 -.008 .126 THRU .250 + .006 251 THRU .500 + .006	D. DOAN 4/24/2013	
		.500 THRU .750 -.008 .755 THRU 1.000 -.005 1.000 THRU 2.000 -.022 OVER 2.000 -.005	M. DELORIO 4/24/2013	
		OVER 2.000 -.005	APPROVED L. LYE 4/24/2013	
			TITLE: IPT, SHROUDS, POWER PULLEY	
			CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES	
			SIZE: DWG NO: D 02-20-02	REV: -
			SCALE: 2:1 SUBSYSTEM: SHROUDS	1
			1 OF 1	

REVISION HISTORY		
REV	DESCRIPTION	APPROVED
-	-	-

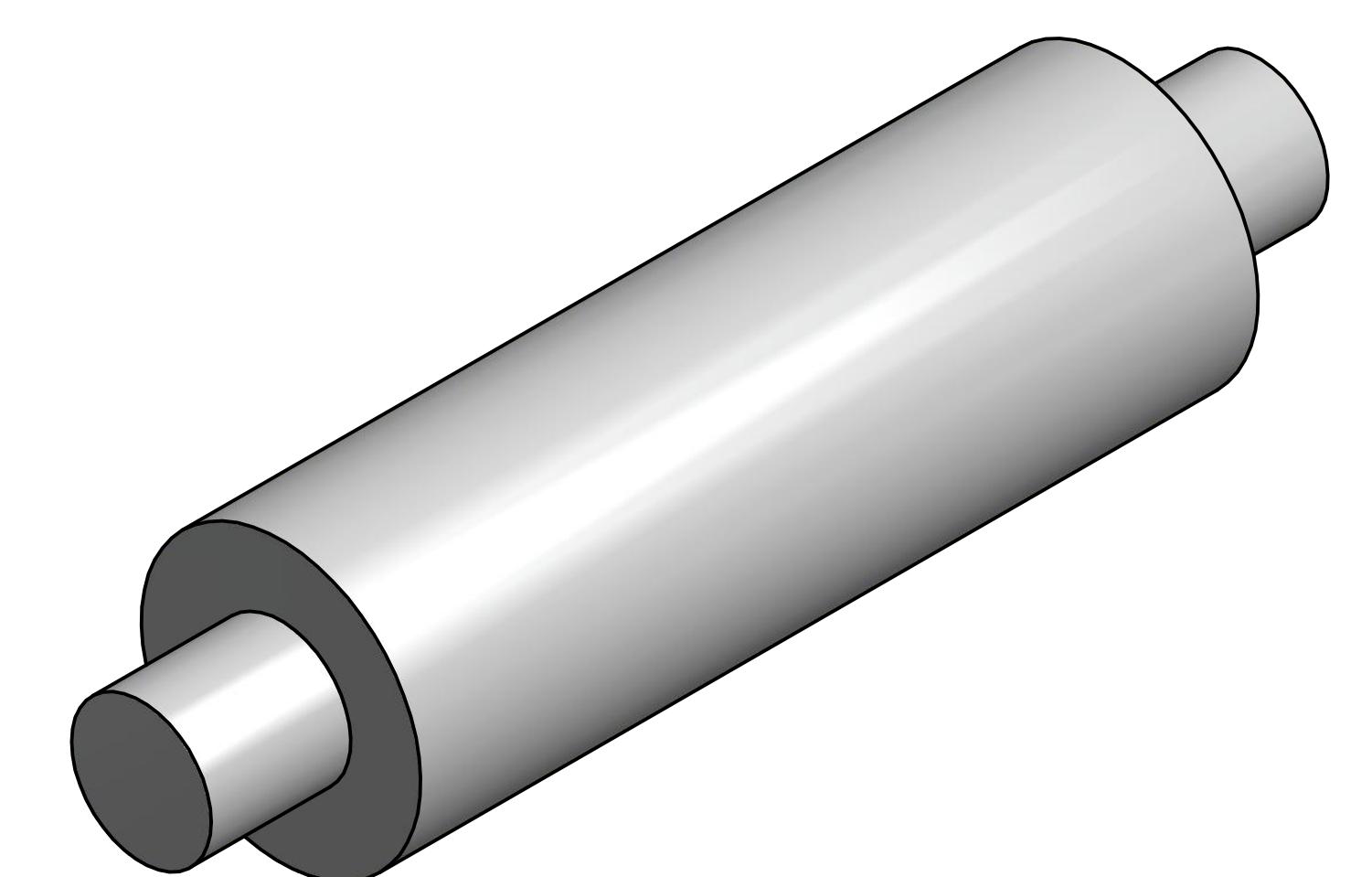
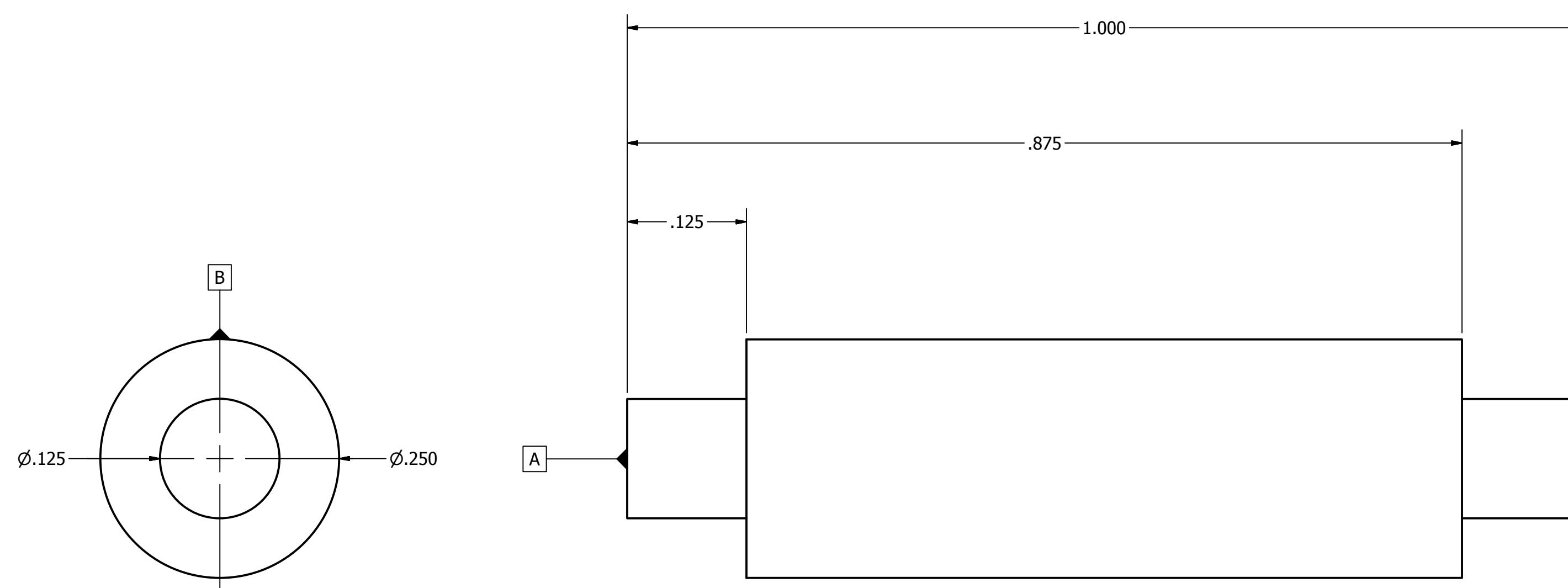
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



NOTES: UNLESS OTHERWISE SPECIFIED
 1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995
 2. ALL HOLES ARE Ø.129 THRU

ITEM QTY		PART NUMBER	DESCRIPTION		SPECIFICATIONS
MATERIAL:		UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN: J. FIGUEROA	4/11/2013	
ALUMINUM COMPOSITE		UNDER .014 .0 .008 .014 THRU .125 .009 500 THRU .750	CHECKED: O. MIAH	4/24/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES
FINISH:		.001 .750 THRU 1.000	D. DOAN	4/24/2013	
WEIGHT:	0.322 LBS.	.001 .126 THRU .250 .006 1.000 THRU 2.000	M. DELORIO	4/24/2013	
		.001 .251 THRU .500 .006 OVER 2.000	APPROVED: L. VIE	4/24/2013	TITLE: IPT, SHROUDS, SIDE ROTOR SUPPORT PLATE
1. DO NOT SCALE DRAWING. 2. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DIMAL DIMENSIONS: XXX ± .010 XX ± .03 X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± .30° LOCATING ± .03° CHAMFERS ± .5°	DELTA TECHNOLOGIES	SIZE: DWG NO: D 02-20-03 REV: - SCALE: 3:4 SUBSYSTEM: SHROUDS SHEET: 1 OF 1

NOTES: UNLESS OTHERWISE SPECIFIED
 1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995



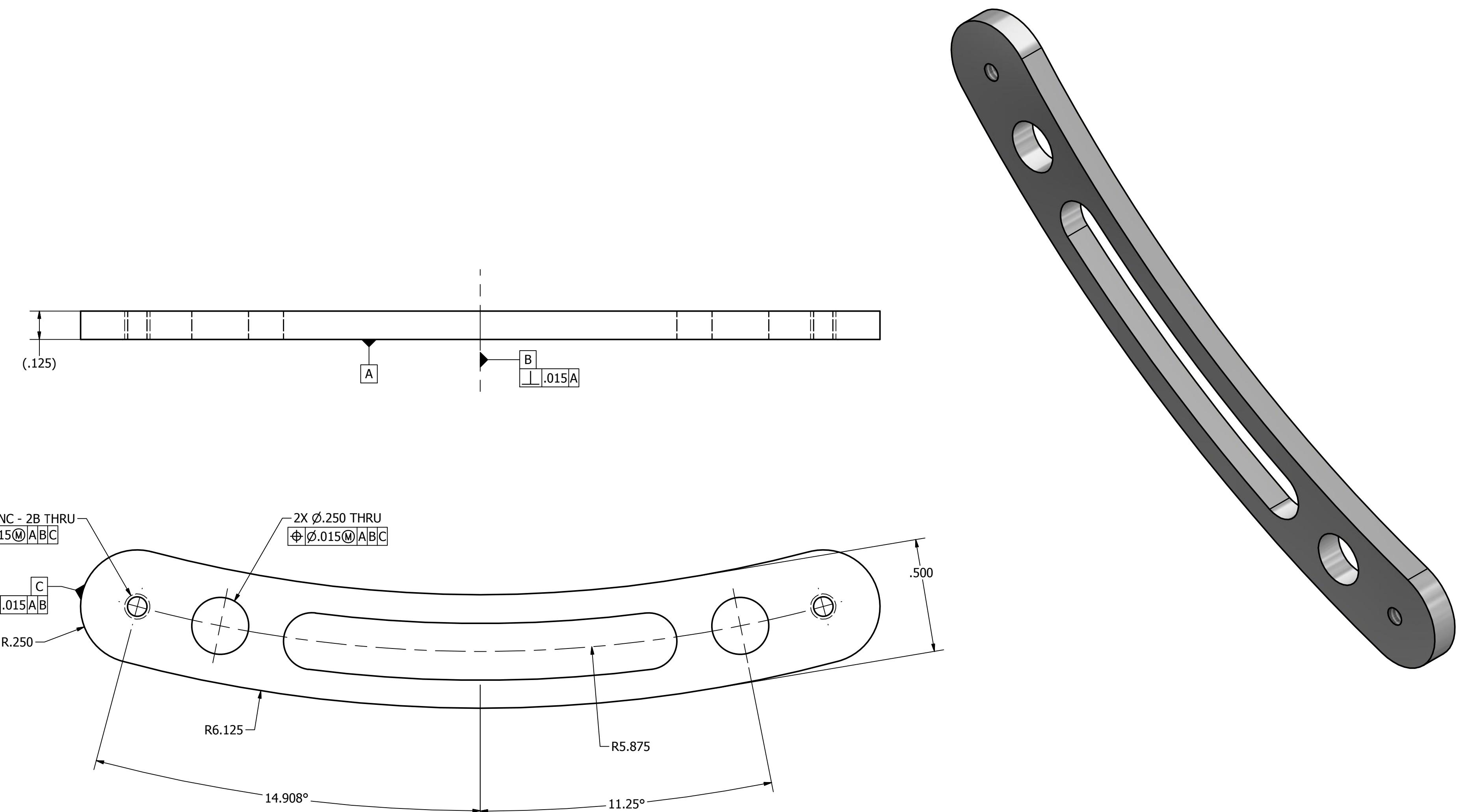
ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATIONS
5	12	02-20-05	AXLE	
MATERIAL:		ALUMINUM 6061	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN: J. FIGUEROA 4/11/2013
FINISH:			UNDER .014 .000 .005 500 THRU .750	CHECKED: O. MIAH 4/24/2013
WEIGHT:		0.004 LBS.	.014 THRU .125 .001 .750 THRU 1.000	D. DOAN 4/24/2013
			.126 THRU .250 .001 1.000 THRU 2.000	M. DELORIO 4/24/2013
			251 THRU 500 .001 OVER 2.000	APPROVED: L. EYE 4/24/2013
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.			ON DIMAL DIMENS: XXX ± .010 XX ± .03 X ± .1	ON ANGULAR DIMENS: MACHINED ± .03° LOCATING ± .03° CHAMFERS ± .5°
				SIZE: DWG NO: D 02-20-05 REV: -
				SCALE: 9:1 SUBSYSTEM: SHROUDS SHEET: 1 OF 1

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994

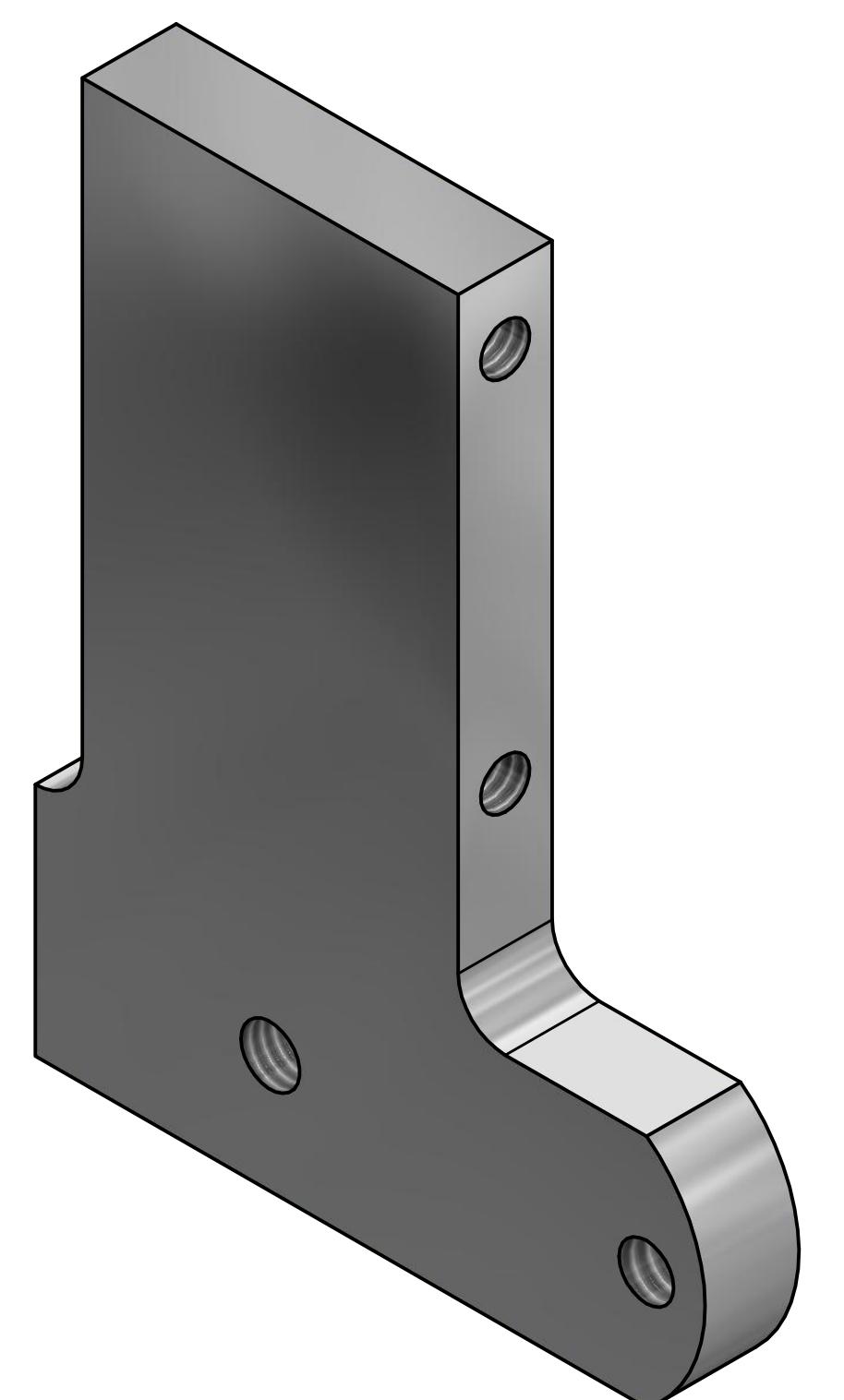
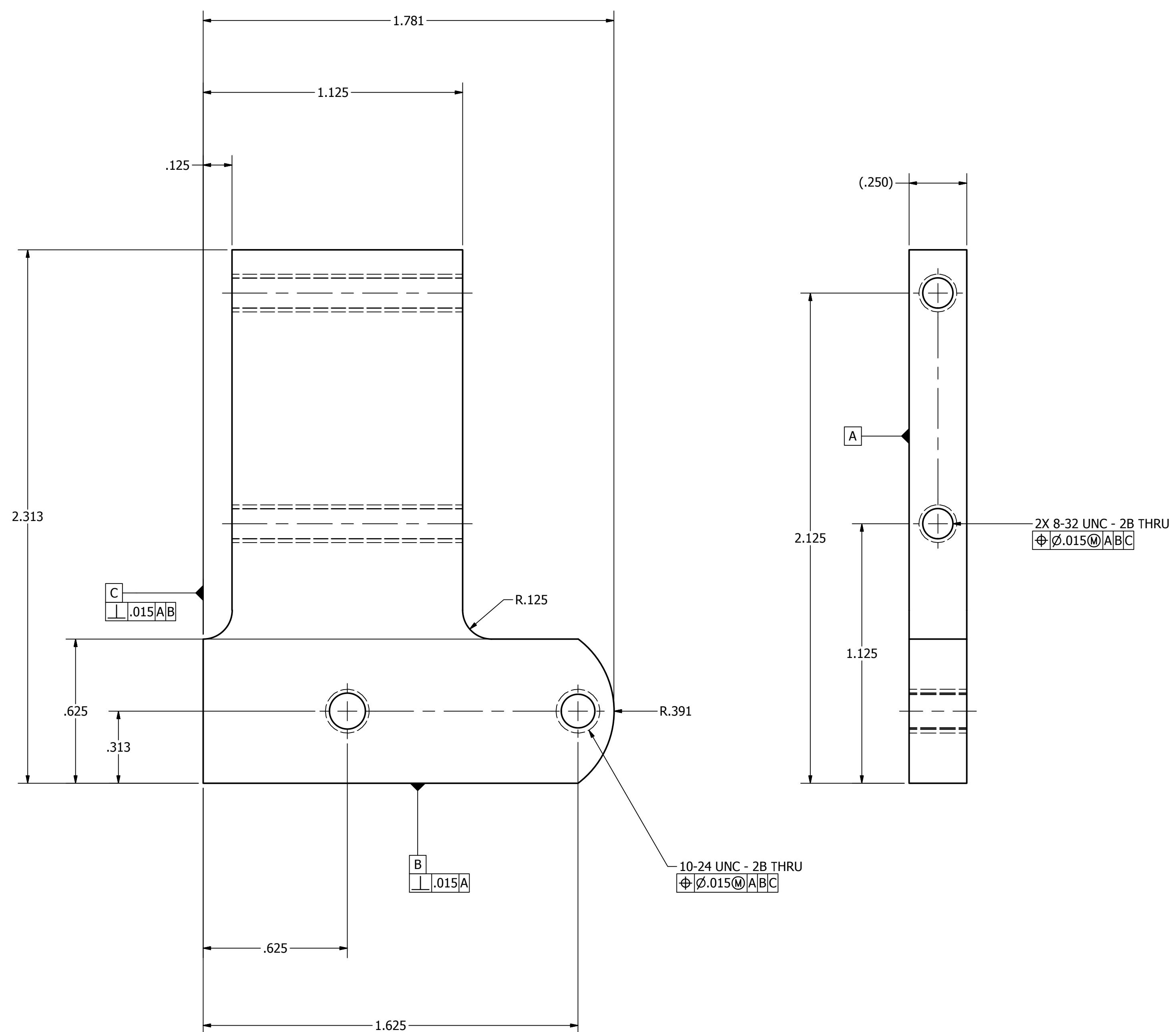


NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994

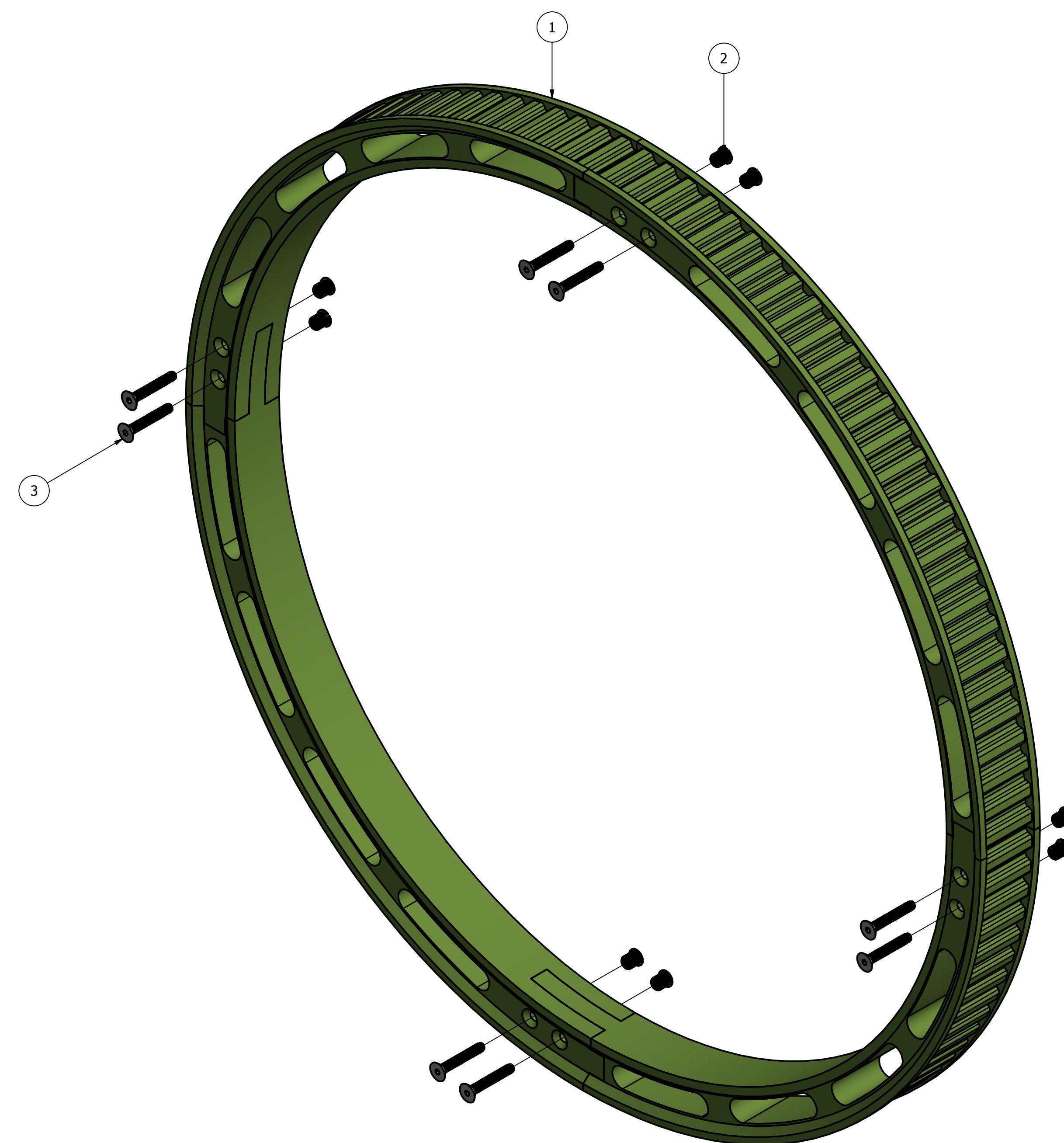
6	4	02-20-06	BOTTOM AXLE PLATE								
ITEM	QTY	PART NUMBER			DESCRIPTION			SPECIFICATIONS			
MATERIAL:		UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS									
ALUMINUM 6061		UNDER .014 .0	.0020 .0005	.500 THRU .750	.008 .001	DRAWN : J. FIGUEROA	4/11/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES			
FINISH:		.014 THRU .125	.004 .001	.751 THRU 1.000	.010 .001	CHECKED : O. MIAH	4/24/2013	TITLE: IPT, SHROUDS, BOTTOM AXLE PLATE			
.126 THRU .250		.005 .001	1.000 THRU 2.000	.012 .001	QA : D. DOAN	4/24/2013					
WEIGHT:		0.015 LBS.	.006 .001	OVER 2.000	.015 .005	MFG : M. DELORIO	4/24/2013				
.251 THRU .500		ON DECIMAL DIMENSIONS: .XXX ± .010	ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°				APPROVED: L. LY	4/24/2013			
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.											

REVISION HISTORY		
REV	DESCRIPTION	APPROVED
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NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATIONS
7	2	02-20-07	HINGE ARM	
MATERIAL:			DRAWN: J. FIGUEROA 4/11/2013	
ALUMINUM 6061			CHECKED: O. MIAH 4/24/2013	
FINISH:			D. DOAN 4/24/2013	
WEIGHT:		0.065 LBS.	MPG: M. DELORIO 4/24/2013	TITLE: IPT, SHROUDS, HINGE ARM
		251 THRU 500	APPROVED: L. LYE 4/24/2013	
		OVER 2,000	REV: -	
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DIMAL DIMENS. XXX $\pm .010$ XX $\pm .03$ X $\pm .1$	ON ANGULAR DIMENS. MACHINED $\pm 0^{\circ}30'$ LOCATING $\pm 0^{\circ}30'$ CHAMFERS $\pm 5^{\circ}$	SIZE: DWG NO: D 02-20-07 SCALE: 3:1 SUBSYSTEM: SHROUDS SHEET: 1 OF 1



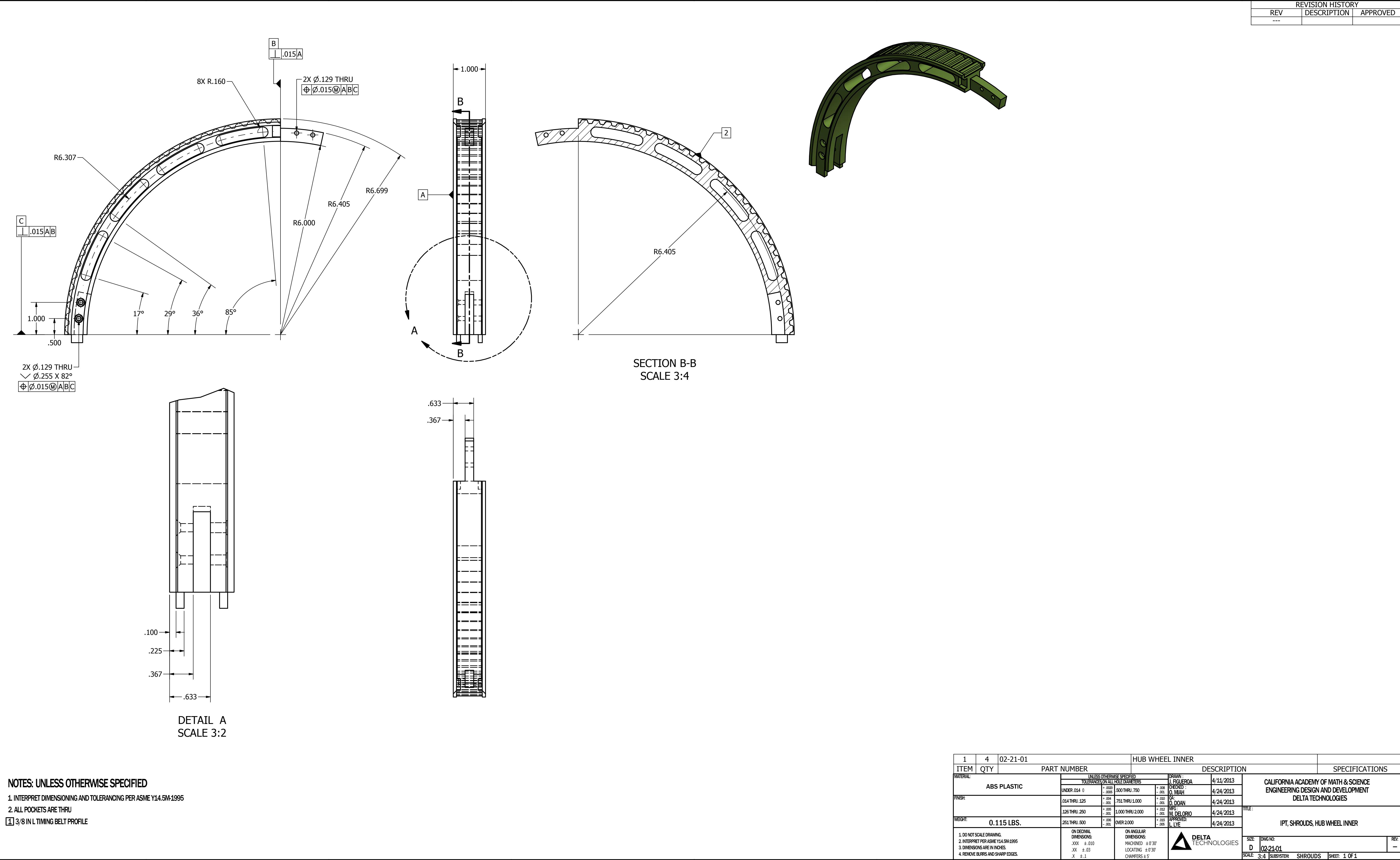
NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM	QTY	PART NUMBER	DESCRIPTION
3	8	91253A113	OTS, ALLOY STEEL FLAT HEAD SOCKET CAP SCREW 4-40 THREAD, 3/4" LENGTH, BLACK OXIDE
2	8	92395A315	OTS, BRASS PRESS-FIT EXPANSION INSERT FOR PLASTICS REVERSE SLOT, W/FLANGE, 4-40 INTERNAL THRD, 3/16" L
1	4	02-21-01	IPT, SHROUDS, WHEEL RIM, HUB WHEEL INNER

PARTS LIST

MATERIAL:	UNLESS OTHERWISE SPECIFIED		DRAWN:	CHECKED:	4/11/2013
	TOLERANCES ON ALL HOLE DIAMETERS	0.000			
FINISH:	UNDER .014 .0	+ .000	.500 THRU .750	+ .008	O. MIAH
	.014 THRU .125	- .001	.750 THRU 1.000	- .001	D. DOAN
	.126 THRU .250	+ .006	1.000 THRU 2.000	+ .022	M. DELORIO
WEIGHT:	.482 LBS.	+ .006	OVER 2.000	+ .055	APPROVED L. EYE
	251 THRU 500	- .001		- .005	
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DIMAL DIMENSIONS: XXX ± .010 XX ± .03 X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± .03° LOCATING ± .03° CHAMFERS ± .5°	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES	
				TITLE: ASSY, SHROUDS, WHEEL RIM	
				SIZE: DWG NO: D 02-21-00	
				REV: -	
				SCALE: 1:1 SUBSYSTEM: SHROUD SHEET: 1 OF 1	

REVISION HISTORY		
REV	DESCRIPTION	APPROVED
-	-	-

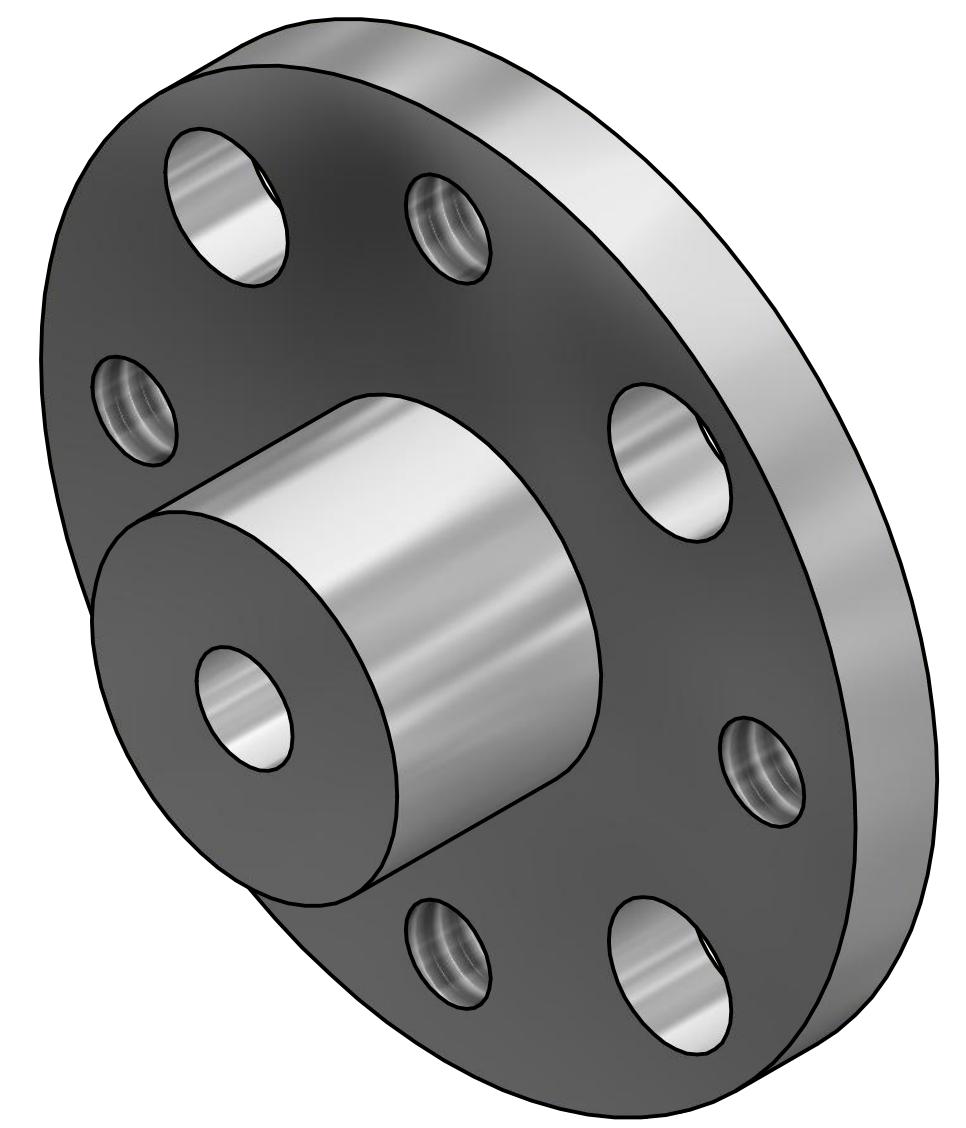
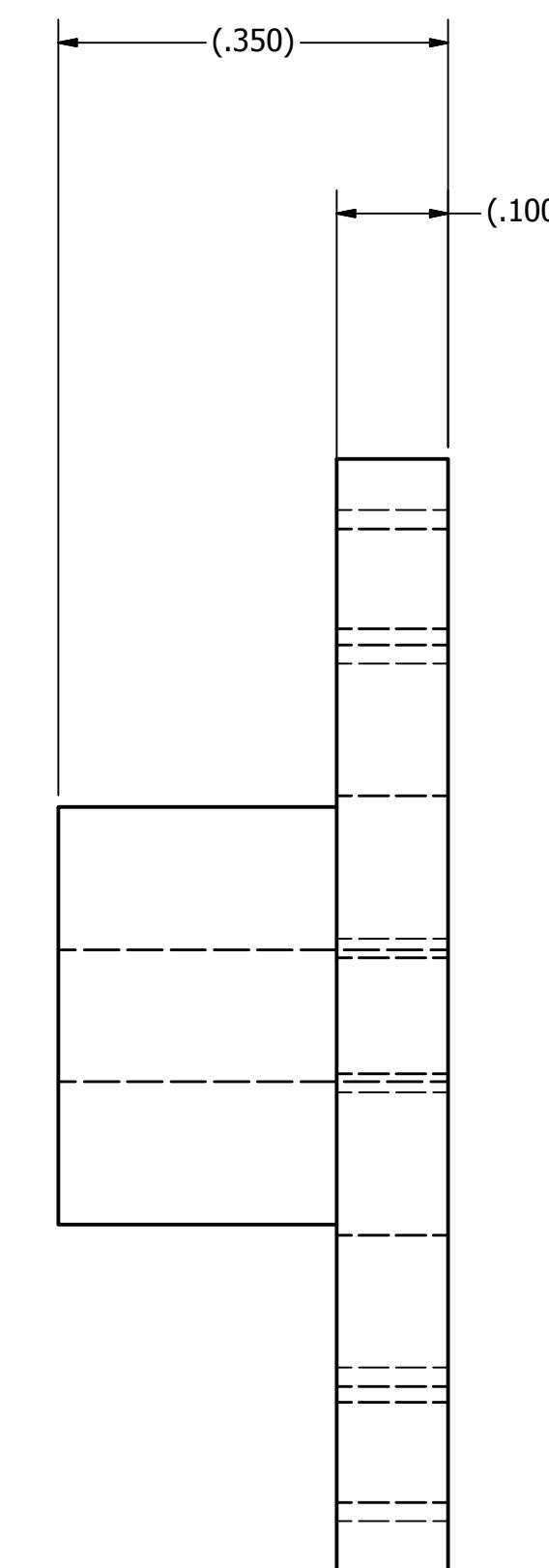
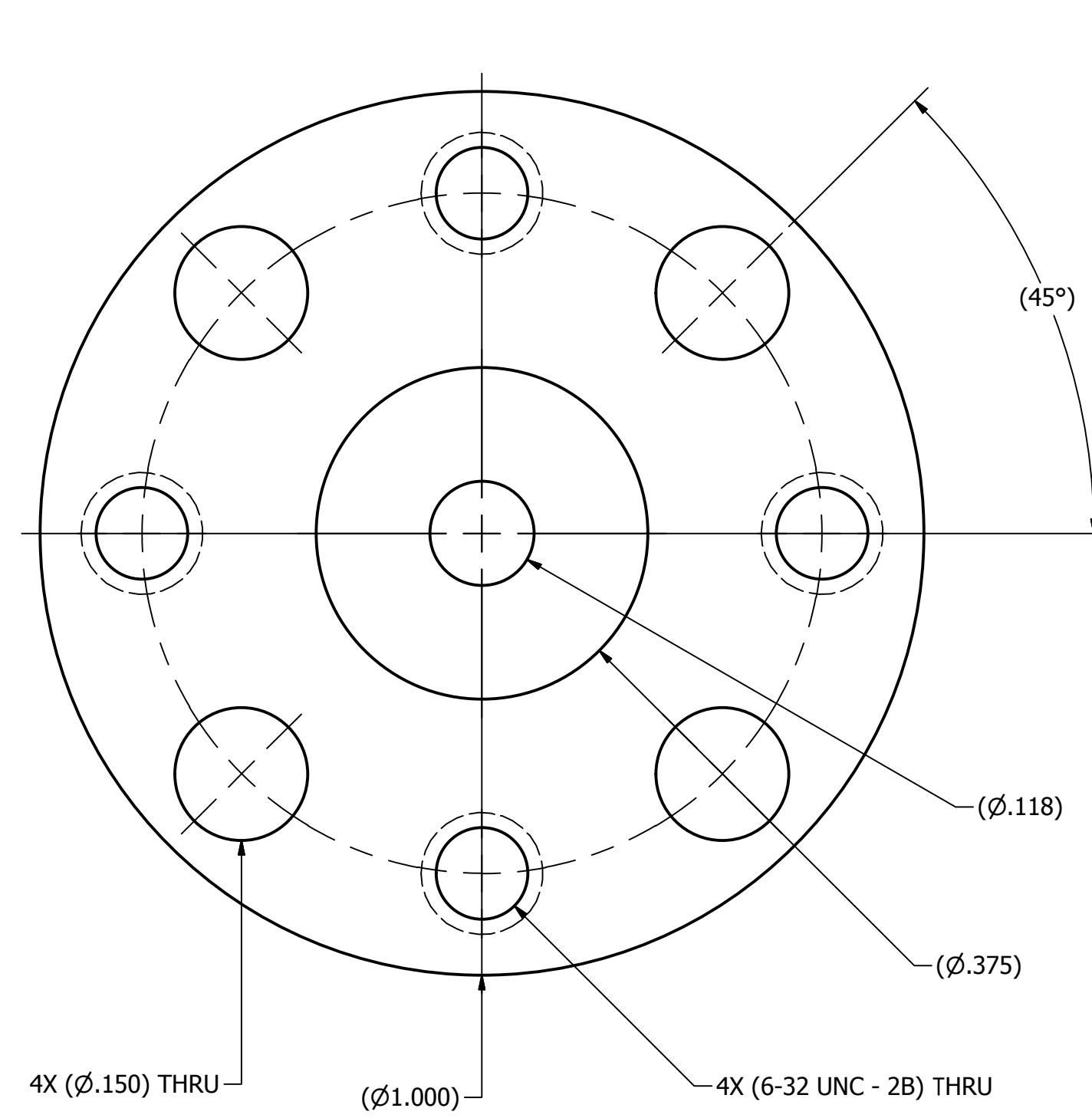


PRODUCED BY AN AUTOODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

REVISION HISTORY		
REV	DESCRIPTION	APPROVED

SUGGESTED SOURCE OF SUPPLY		
CAGE	PART NO.	NAME + ADDRESS
N/A	545348	ServoCity 3850 East 12th Avenue Winfield, KS 67156 (620) 221-0123 Orders@ServoCity.com



SOURCE CONTROL DRAWING

12	2	545348	SET SCREW HUB					
ITEM	QTY	PART NUMBER		DESCRIPTION			SPECIFICATIONS	
MATERIAL:		UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS			DRAWN : J. FIGUEROA	4/11/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES	
		UNDER .014	.0	+ .0020 - .005	.500 THRU .750	+ .008 - .001	CHECKED : O. MIAH	4/24/2013
FINISH:		.014 THRU .125		+ .004 - .001	.751 THRU 1.000	+ .010 - .001	QA : D. DOAN	4/24/2013
		.126 THRU .250		+ .005 - .001	1.000 THRU 2.000	+ .012 - .003	MFG : M. DELORIO	4/24/2013
WEIGHT:		0.009 LBS.		+ .006 - .001	OVER 2.000	+ .015 - .005	APPROVED: L. LY	4/24/2013
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.			ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°	 DELTA TECHNOLOGIES		TITLE: OTS, SET SCREW HUB	
					SIZE:	DWG NO:		
					D	02-20-12		
					SCALE:	6:1	SUBSYSTEM:	SHROUDS
							SHEET:	1 OF 1

NOTES: UNLESS OTHERWISE SPECIFIED

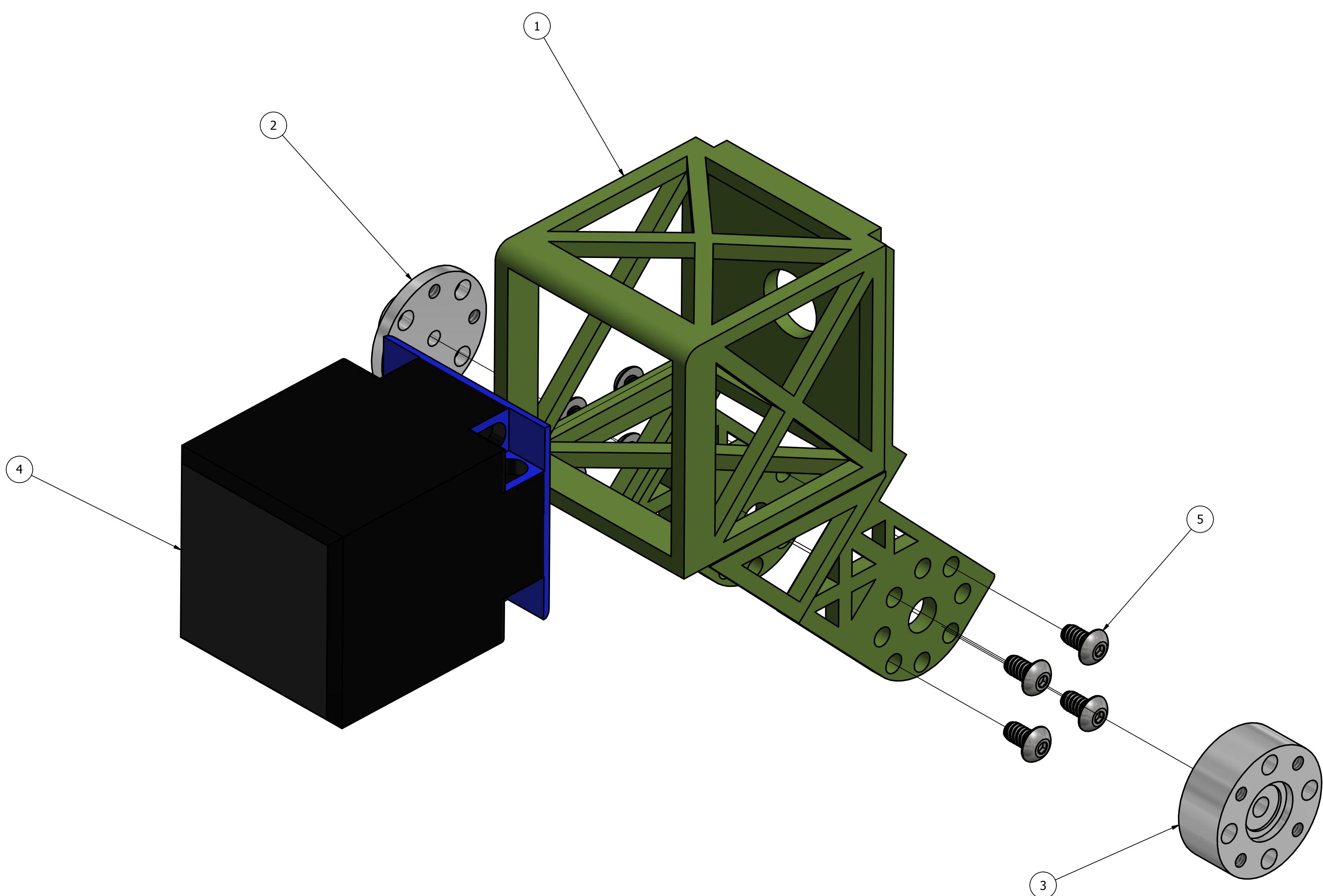
1 INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

8 7 6 5 4 3 2 1

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NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM	QTY	PART NUMBER	DESCRIPTION
5	8	91255A144	OTS, ALLOY STEEL BUTTON HEAD SOCKET CAP SCREW 6-32 THREAD, 1/4" LENGTH
4	1	AT1-A0-4H	OTS, PROXIMITY SENSOR
3	1	545364	OTS, SWIVEL HUB
2	1	545348	OTS, SET SCREW HUB
1	1	03-10-01	IPT, GAS ARM, SENSOR BRACKET

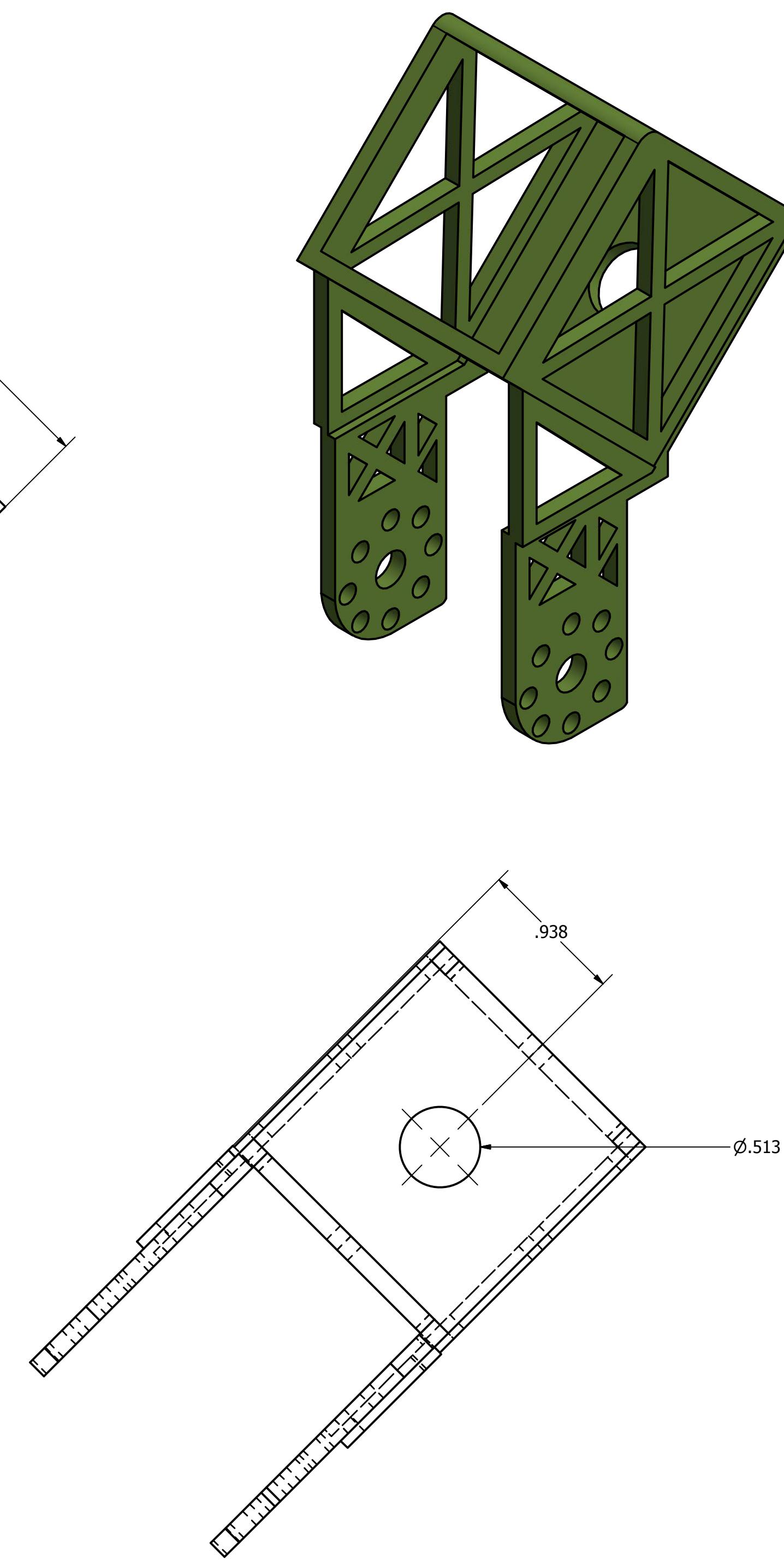
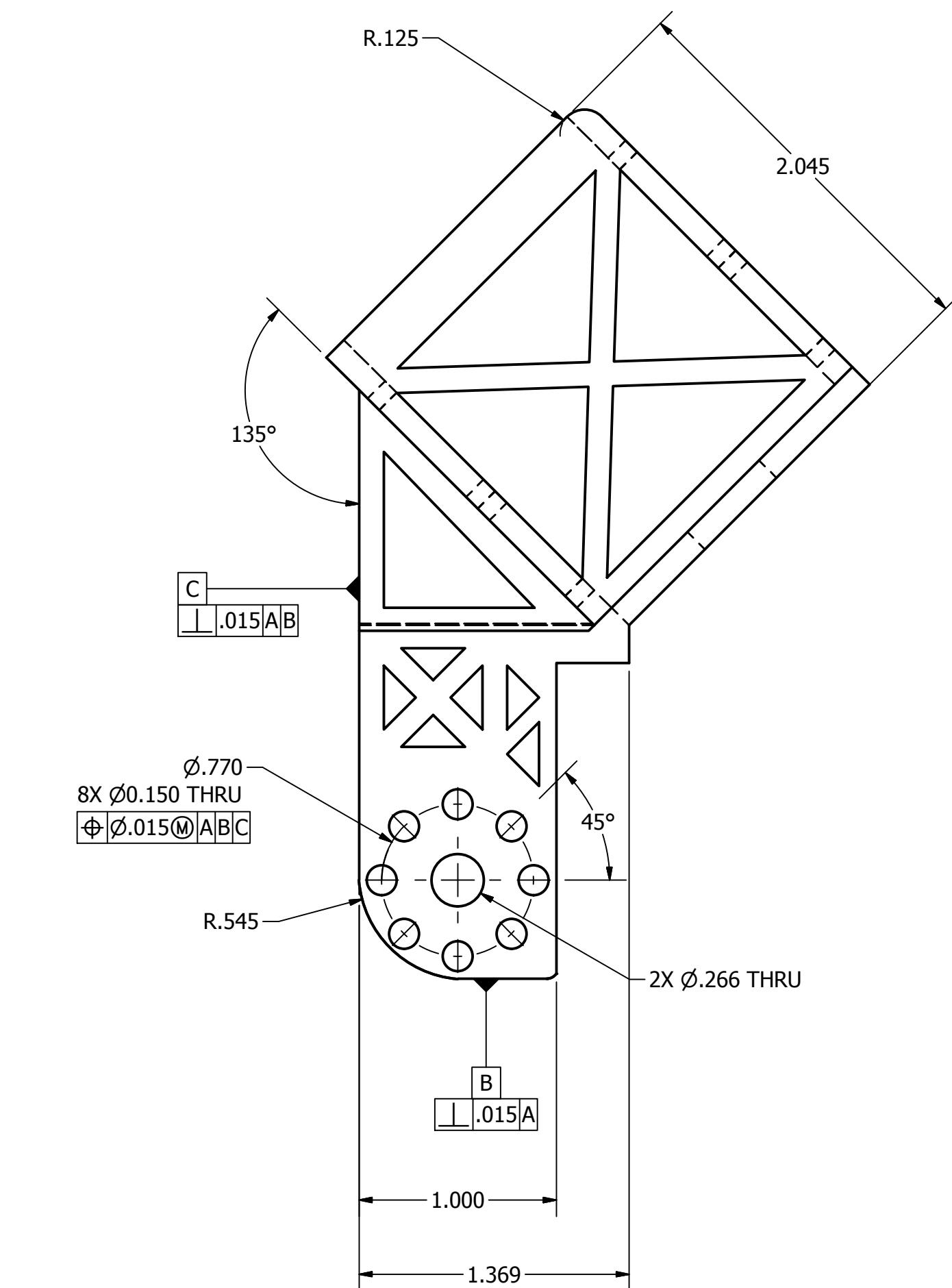
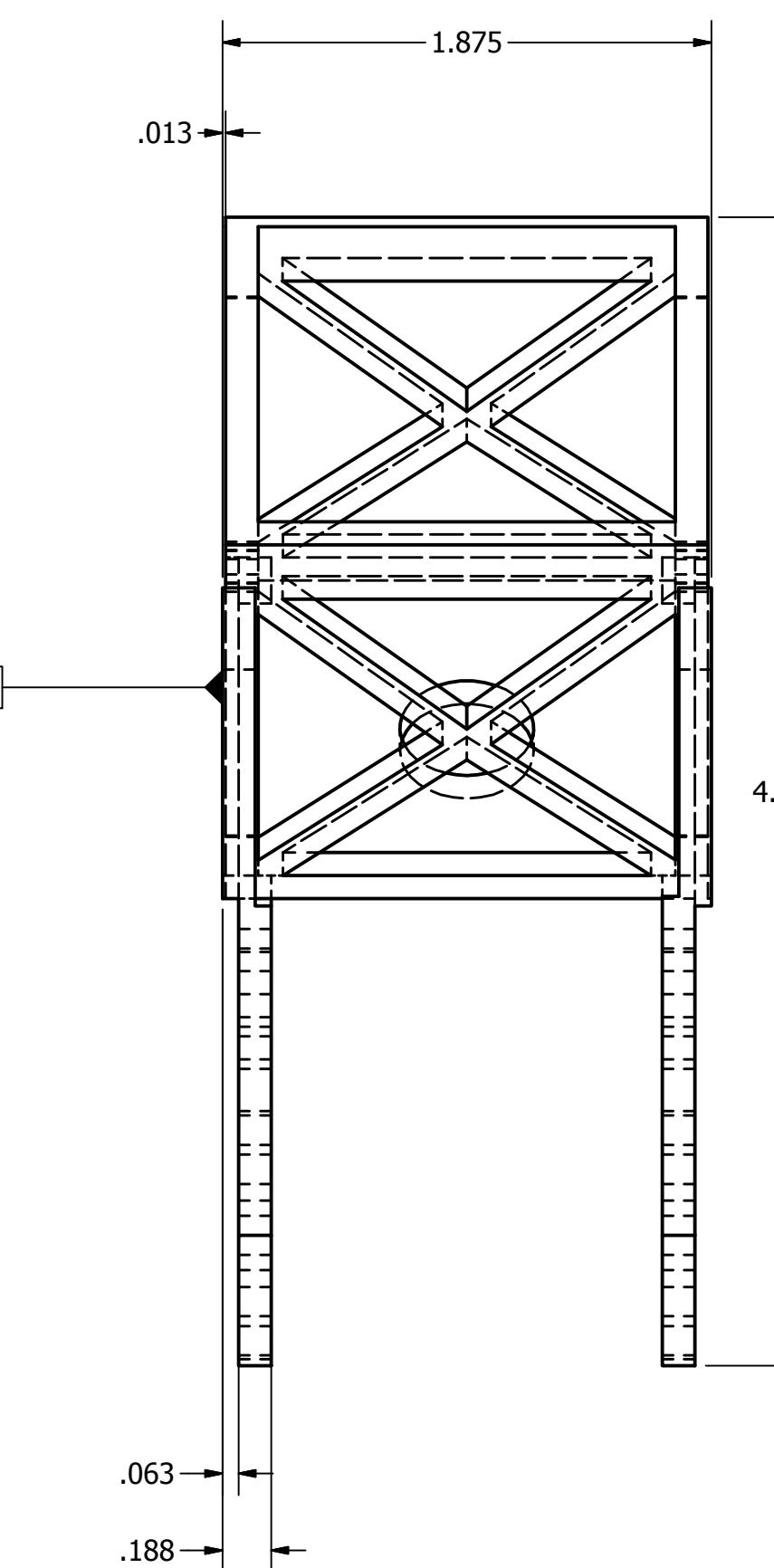
PARTS LIST

MATERIAL:	UNLESS OTHERWISE SPECIFIED	DRAWN:	4/24/2013
FINISH:	TOLERANCES ON ALL HOLE DIAMETERS	CHECKED:	
UNDER .014 0	+ .008 -.005 500 THRU 750	.012 .005 D. DOAN	4/24/2013
.014 THRU .125	-.001 -.005 750 THRU 1,000	.005 .005 D. DOAN	4/24/2013
.126 THRU .250	+ .006 -.004 1,000 THRU 2,000	.022 .015 M. DELORIO	4/24/2013
WEIGHT: .436 LBS.	251 THRU 500 +.006 -.001 OVER 2,000 +.005 -.001	APPROVED L. EYE	4/24/2013
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DIMAL DIMENSIONS: XXX ± .010 XX ± .03 X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± .030° LOCATING ± .030° CHAMFERS ± .5°	REV: -

CALIFORNIA ACADEMY OF MATH & SCIENCE
ENGINEERING DESIGN AND DEVELOPMENT
DELTA TECHNOLOGIES

ASSY, GAS ARM

DELTA
TECHNOLOGIESSIZE DWG NO: D 03-10-01 REV: -
SCALE 2:1 SUBSYSTEM: GAS/HAS ARMS SHEET 1 OF 1



NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATIONS
1	1	03-10-01	SENSOR BRACKET	
MATERIAL:		UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN: J. FIGUEROA 4/11/2013	
FINISH:		ABS PLASTIC	CHECKED: O. MIAH 4/24/2013	
WEIGHT:		UNDER .014 0 .014 THRU .125 .126 THRU .250 251 THRU .500	.008 +.000 -.001 +.006 +.006 OVER 2.000 +.005 -.005	D. DOAN 4/24/2013 M. DELORIO 4/24/2013 APPROVED L. LYE 4/24/2013
		ON DIMAL DIMENSIONS: XXX ± .010 XX ± .03 X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± .03° LOCATING ± .03° CHAMFERS ± .5°	
		1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		REV: -
			SIZE: DWG NO: D 03-10-01	CAFE TECHNOLOGIES
			SCALE: 3:2	1 OF 1
			SUBSYSTEM: GAS/HAS ARMS	

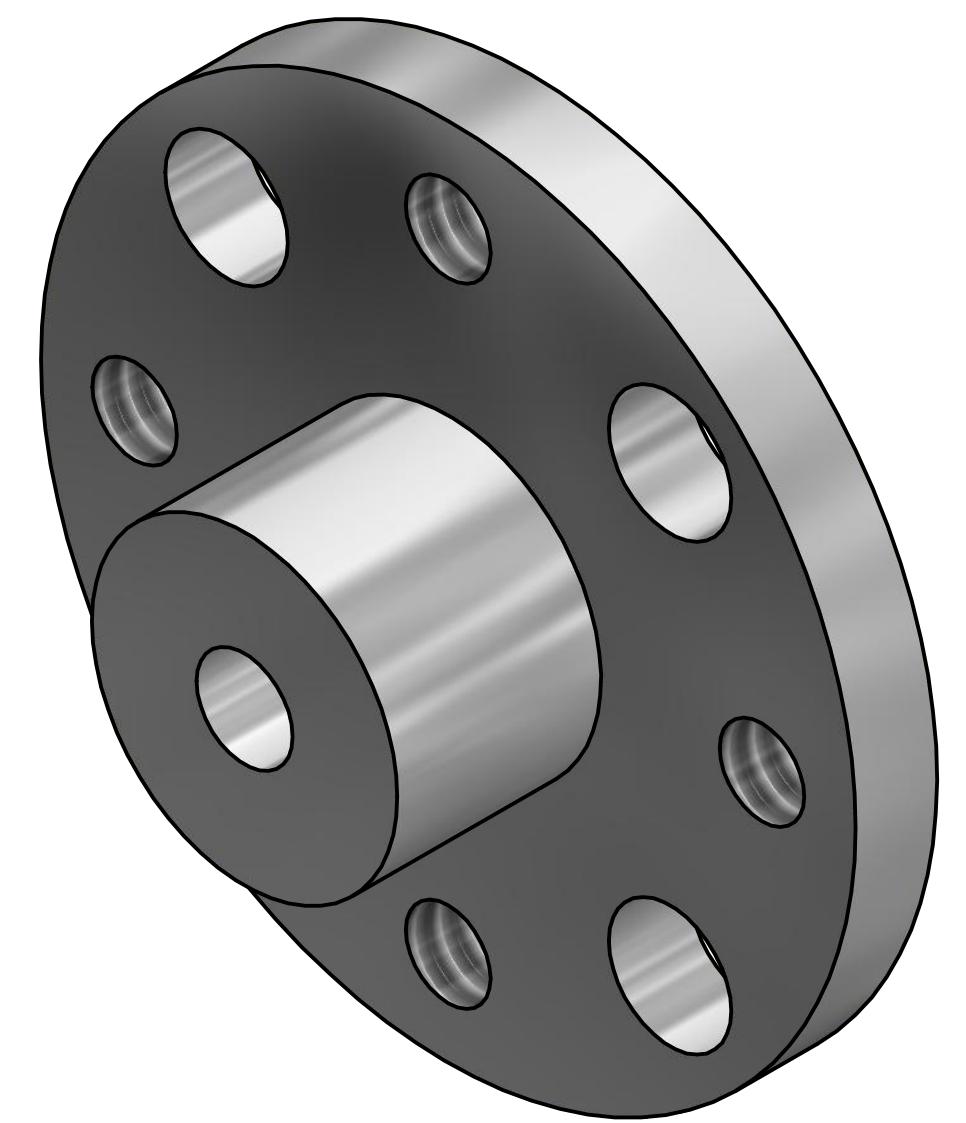
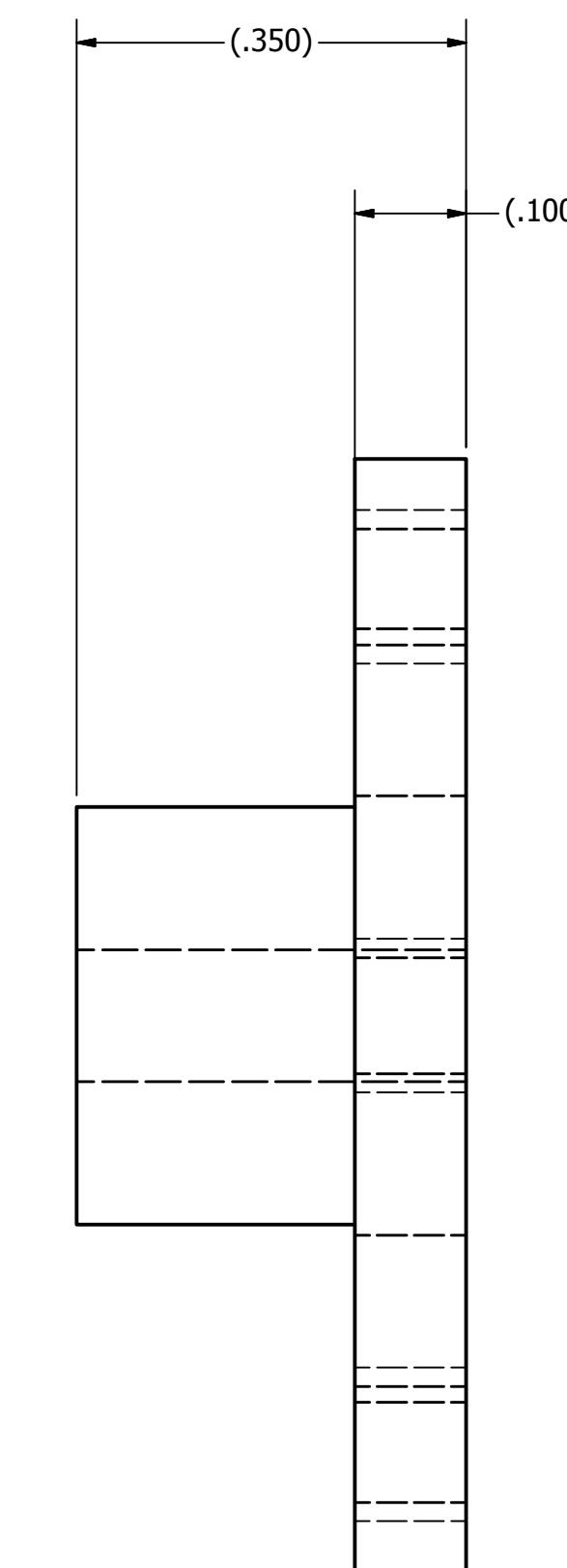
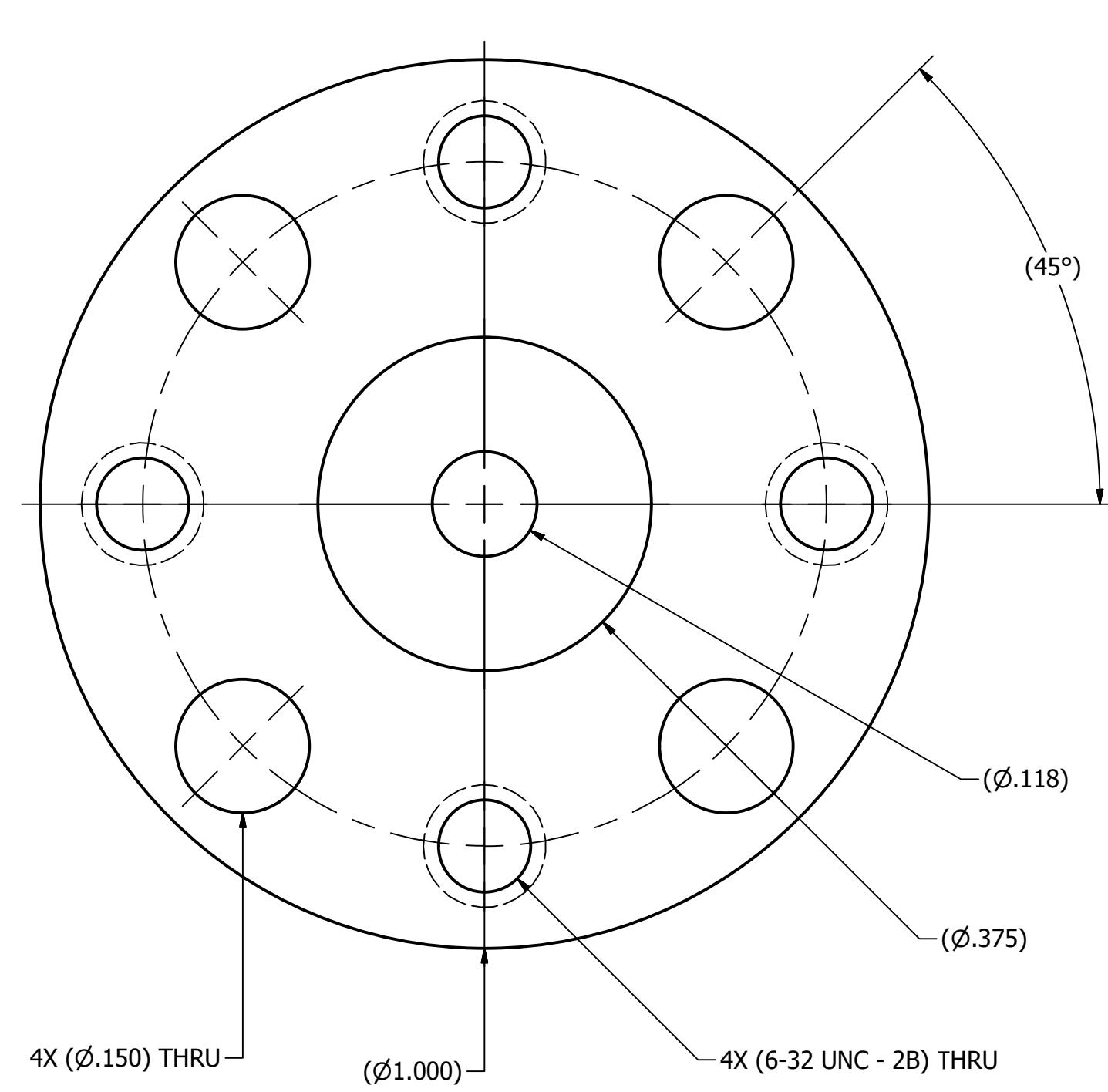
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

LESS OTHERWISE SPECIFIED

DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

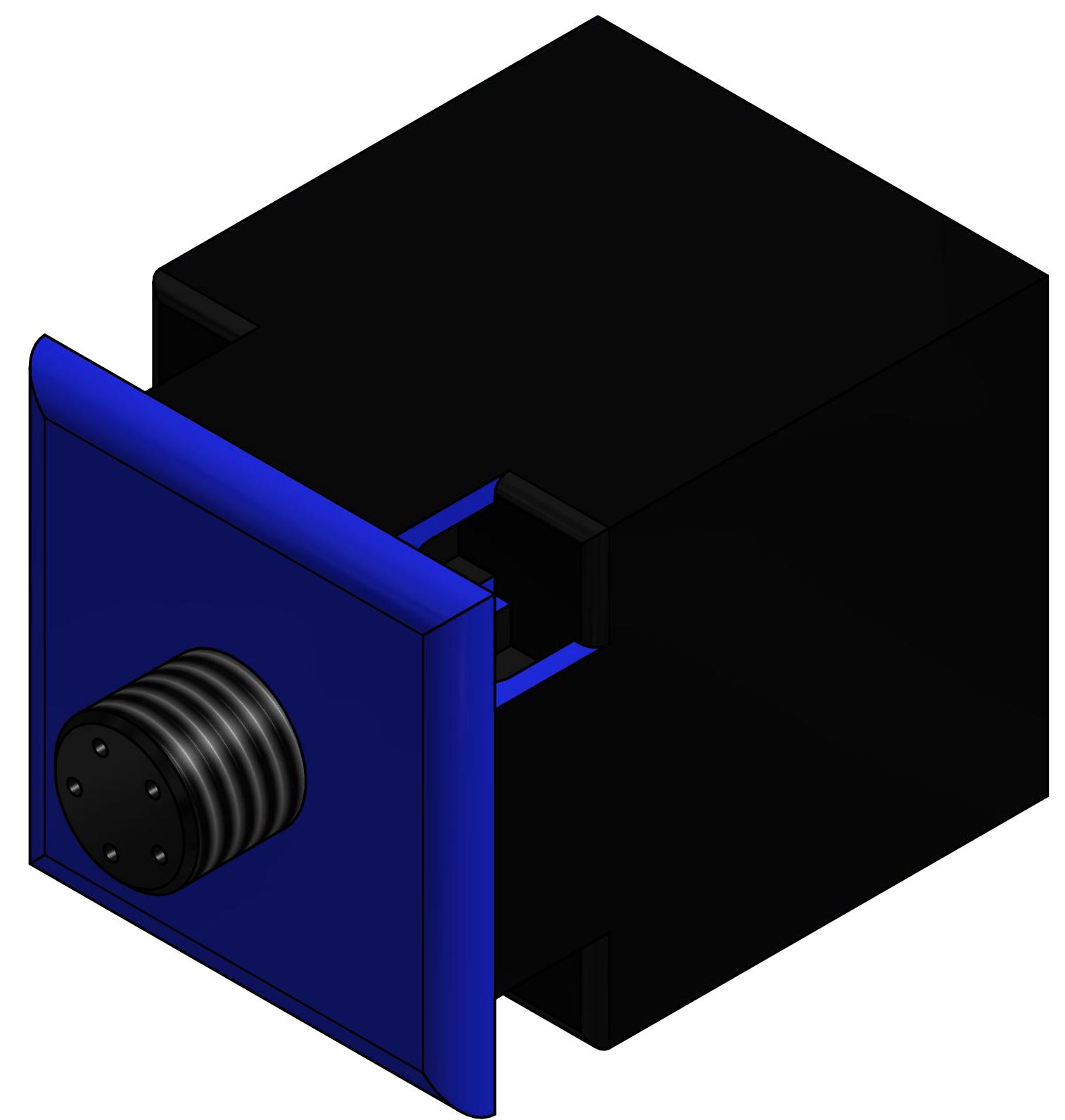
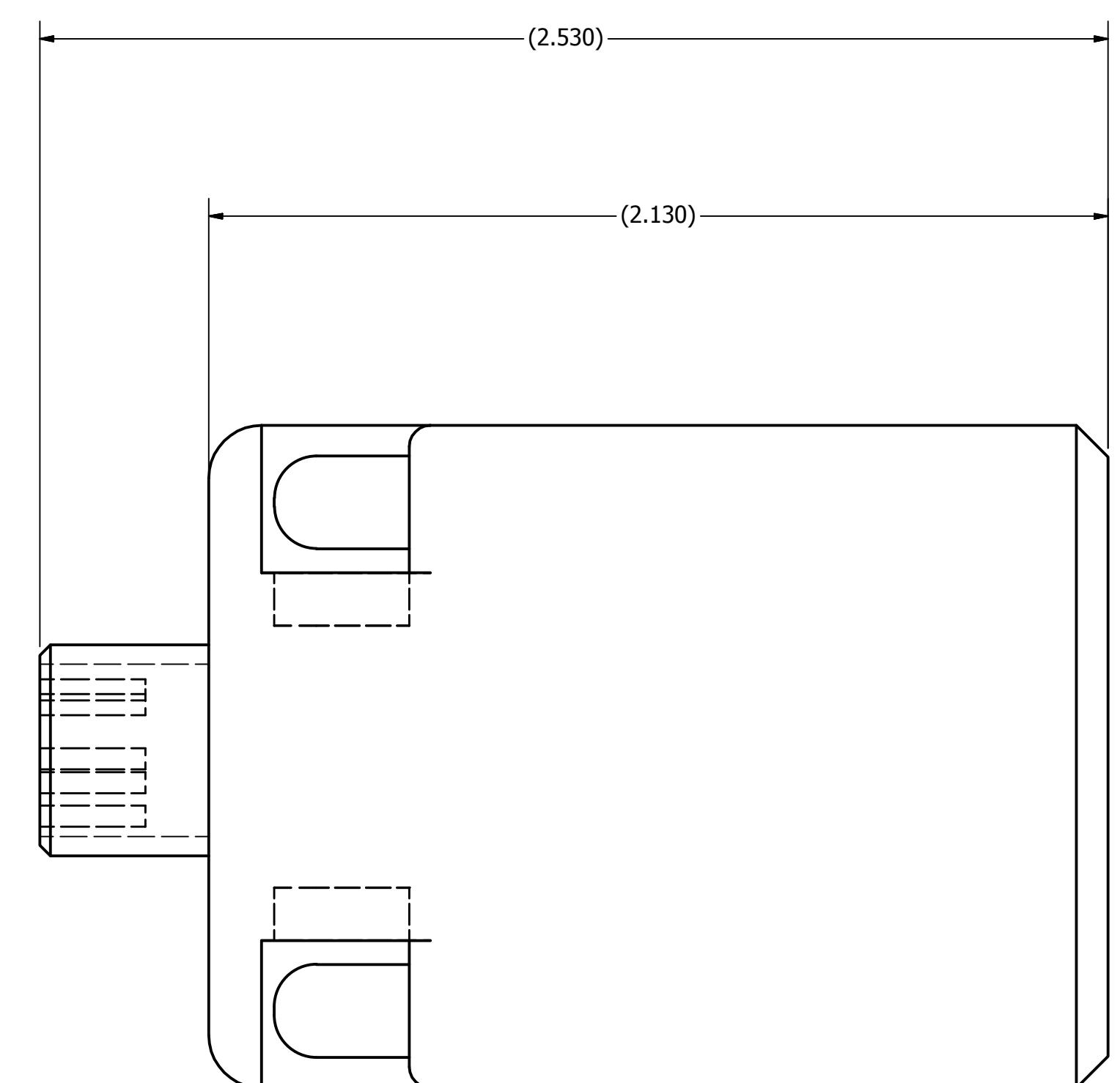
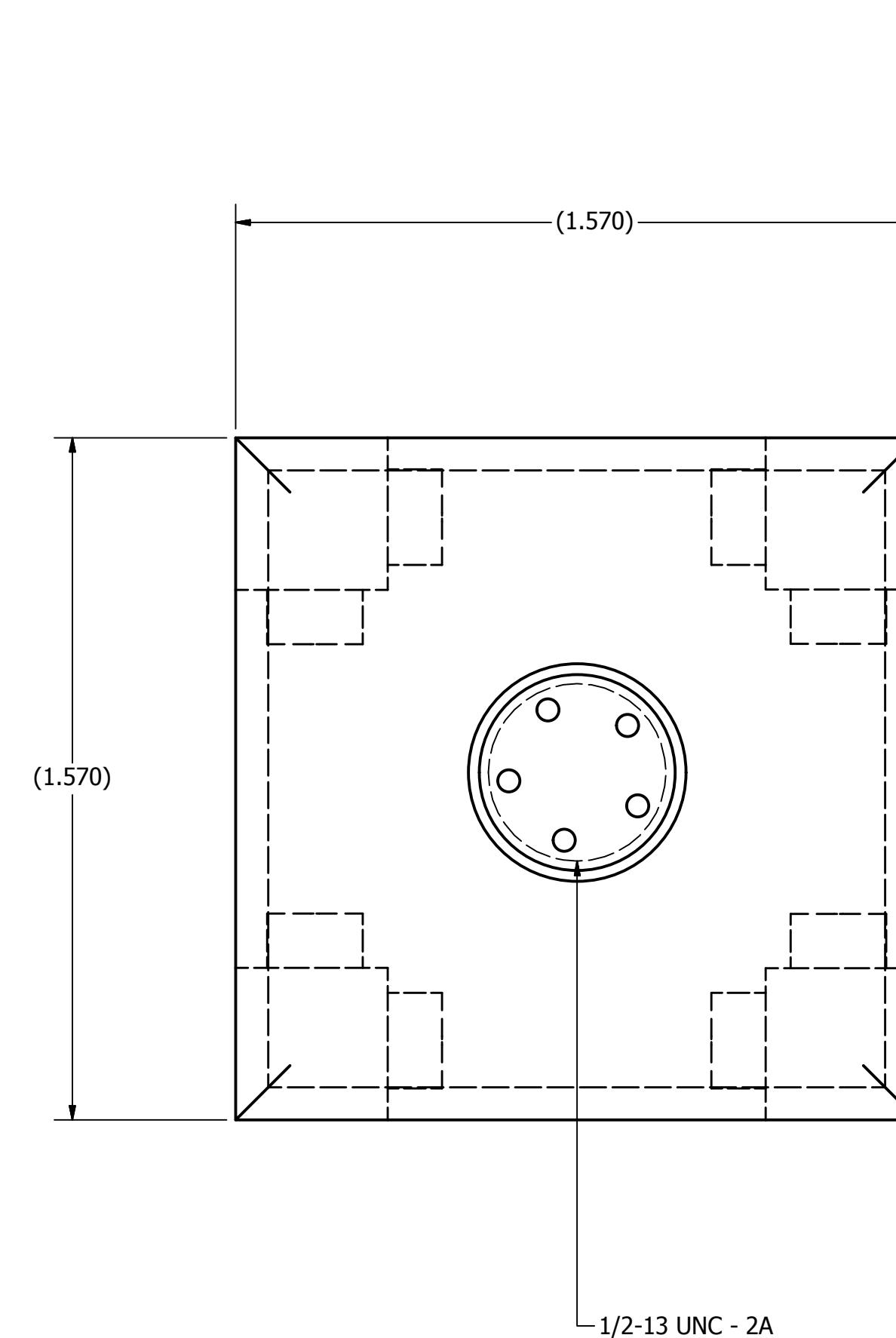


SOURCE CONTROL DRAWING

2	1	545348	SET SCREW HUB				
ITEM	QTY	PART NUMBER		DESCRIPTION			SPECIFICATIONS
MATERIAL: ALUMINUM 6061		UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS		DRAWN : D. DOAN	4/11/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES	
		UNDER .014 0	.0020 -.0005	.500 THRU .750	.008 -.001	CHECKED : O. MIAH	4/24/2013
FINISH:		.014 THRU .125	.004 -.001	.751 THRU 1.000	.010 -.001	QA : D. DOAN	4/24/2013
		.126 THRU .250	.005 -.001	1.000 THRU 2.000	.012 -.003	MFG : M. DELORIO	4/24/2013
WEIGHT: 0.009 LBS		.251 THRU .500	.006 -.001	OVER 2.000	.015 -.005	APPROVED: L. LY	4/24/2013
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°	 DELTA TECHNOLOGIES		TITLE: OTS, SET SCREW HUB	
				SIZE : D	DWG NO: 03-10-02	REV: -	
				SCALE: 6:1	SUBSYSTEM: GAS/HAS ARMS	SHEET: 1 OF 1	

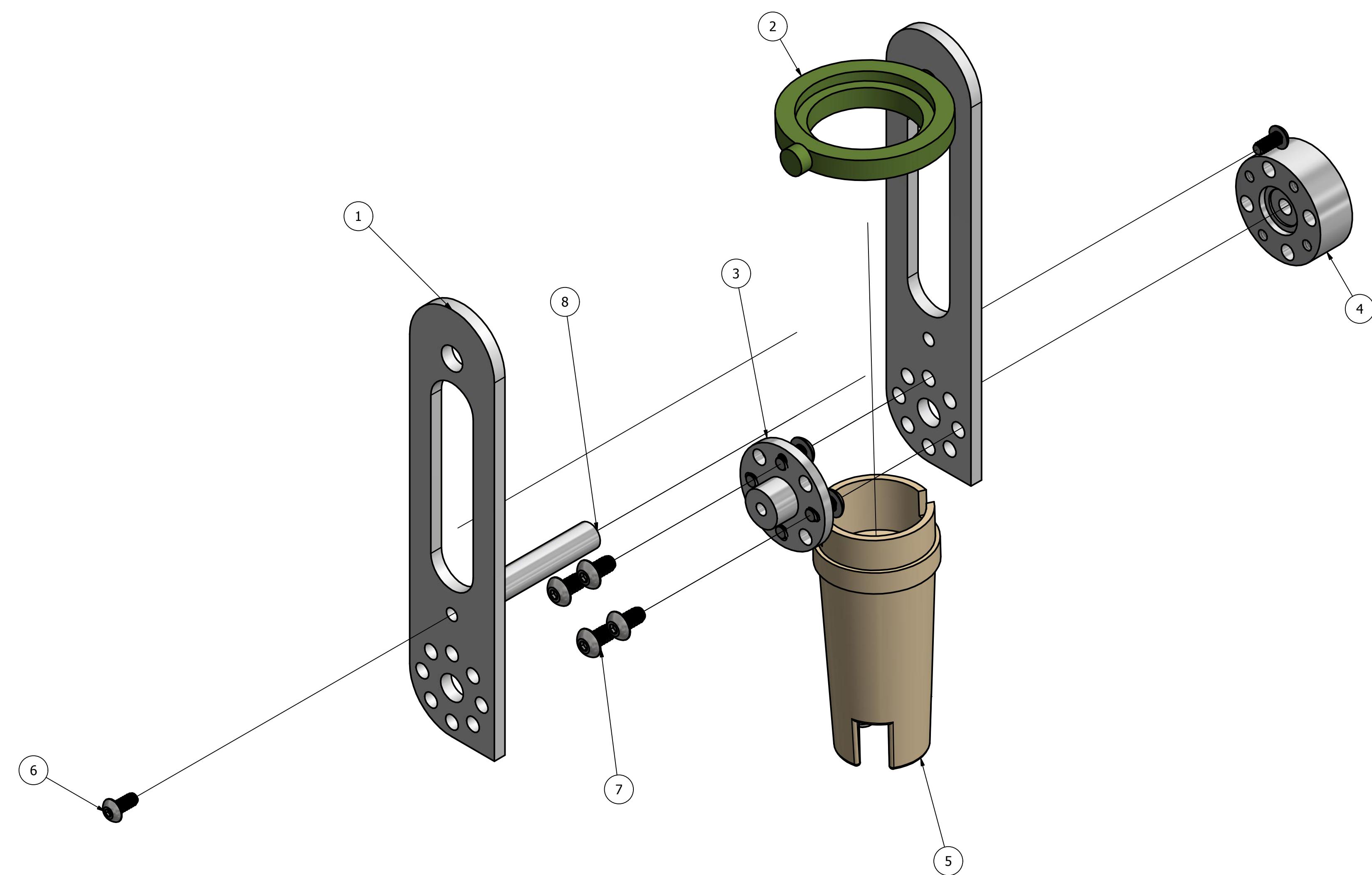
REVISION HISTORY		
REV	DESCRIPTION	APPROVED
-	-	-

SUGGESTED SOURCE OF SUPPLY		
CAGE	PART NO.	NAME + ADDRESS
N/A	AT1-A0-4H	Automation Direct 3505 Hutchinson Road Cumming, GA 30040 (800) 633-0405



SOURCE CONTROL DRAWING

ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATIONS
MATERIAL:			UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN : J. FIGUEROA 4/11/2013
FINISH:			UNDER .014 .000 .005 500 THRU .750 .014 THRU .125 -.001 .005 .750 THRU 1.000 .126 THRU .250 -.001 .005 1.000 THRU 2.000	CHECKED : O. MIAH 4/24/2013 D. DOAN 4/24/2013 M. DELORIO 4/24/2013
WEIGHT:	0.333 LBS	251 THRU 500	OVER 2.000	APPROVED L. LYE 4/24/2013
NOTES: UNLESS OTHERWISE SPECIFIED			1. DO NOT SCALE DRAWING. 2. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DIMAL DIMENSIONS: XXX ±.010 XX ±.03 X ±.1 ON ANGULAR DIMENSIONS: MACHINED ±.03° LOCATING ±.03° CHAMFERS ±.5°
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995				SIZE: DWG NO: D 03-1003 REV: -
				SCALE: 3:1 SUBSYSTEM: GAS/HAS ARMS SHEET: 1 OF 1



NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM	QTY	PART NUMBER	DESCRIPTION
8	1	93330A462	OTS. ALUMINUM FEMALE THREADED ROUND STANDOFF 1/4" OD, 1-1/2" LENGTH, 4-40 SCREW SIZE
7	8	91255A144	OTS, ALLOY STEEL BUTTON HEAD SOCKET CAP SCREW 6-32 THREAD, 1/4" LENGTH
6	2	91255A106	OTS, ALLOY STEEL BUTTON HEAD SOCKET CAP SCREW 4-40 THREAD, 1/4" LENGTH
5	1	891144000007	OTS, PPM SENSOR
4	1	545364	OTS, SWIVEL HUB
3	1	545348	OTS, SET SCREW HUB
2	1	03-20-02	IPT, HAS ARM, SENSOR MOUNT
1	2	03-20-01	IPT, HAS ARM, PLATE

PARTS LIST

MATERIAL:	UNLESS OTHERWISE SPECIFIED	DRAWN:	4/24/2013
	TOLERANCES ON ALL HOLE DIAMETERS	CHECKED:	
FINISH:	UNDER .014 .000 .005 500 THRU .750	0.014 .005 .005 .005	0.014 .005 .005 .005
	.014 THRU .125 .001 .005 .750 THRU 1.000	0.014 .001 .005 .005	0.014 .001 .005 .005
WEIGHT:	.126 THRU .250 .006 .004 1.000 THRU 2.000	.006 .004 .005 .005	.006 .004 .005 .005
	251 THRU 500 .006 .005 OVER 2.000	.006 .005 .005 .005	.006 .005 .005 .005
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DERNAL DIMENSIONS: XXX ±.010 XX ±.03 X ±.1	ON ANGULAR DIMENSIONS: MACHINED ±.03° LOCATING ±.03° CHAMFERS ±.5°	APPROVED L. EYE 4/24/2013
			REV: -
			SIZE: DWG NO: D 03-20-00
			SCALE: 3:2 SUBSYSTEM: GAS/HAS ARMS SHEET: 1 OF 1

CALIFORNIA ACADEMY OF MATH & SCIENCE
ENGINEERING DESIGN AND DEVELOPMENT
DELTA TECHNOLOGIES

ASSY, HAS ARM

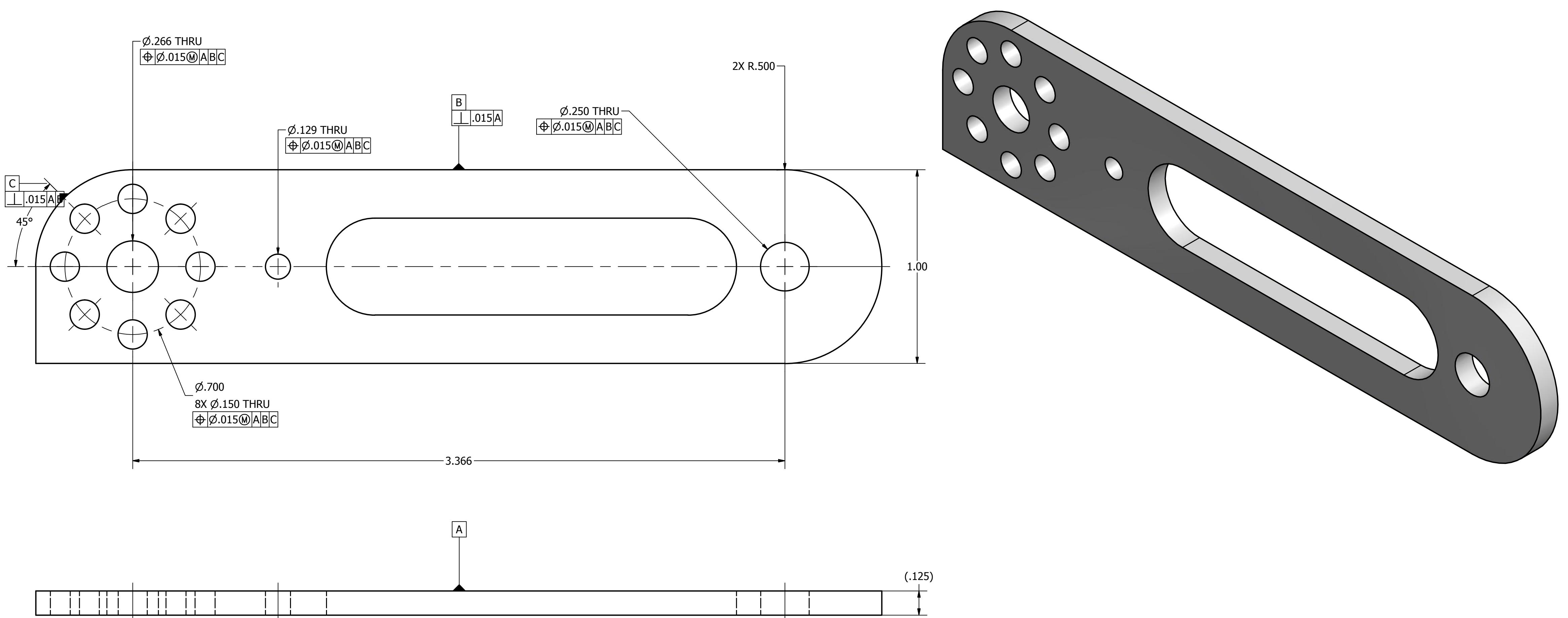


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8 7 6 5 4 3 2 1 1 2 3 4 5 6 7 8

REVISION HISTORY		
REV	DESCRIPTION	APPROVED
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PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM	QTY	PART NUMBER	PLATE	DESCRIPTION	SPECIFICATIONS
MATERIAL:			UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN: J. FIGUEROA 4/11/2013	
FINISH:		ALUMINUM COMPOSITE	UNDER .014 .0 .005 500 THRU .750	CHECKED: O. MIAH 4/24/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES
			.014 THRU .125 .005 .750 THRU 1.000	DOORAN 4/24/2013	
WEIGHT:		0.021 LBS	.126 THRU .250 .004 1.000 THRU 2.000	M. DELORIO 4/24/2013	
			251 THRU 500 .006 OVER 2.000	APPROVED: L. EYE 4/24/2013	TITLE: IPT, HAS ARM, PLATE
			1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DIMAL DIMENS. XXX ±.010 XX ±.03 X ±.1	ON ANGULAR DIMENS. MACHINED ±.03° LOCATING ±.03° CHAMFERS ±.5°
					SIZE: DWG NO: D 03-20-01 REV: -
					SCALE: 3:1 SUBSYSTEM GAS/HAS ARMS SHEET 1 OF 1

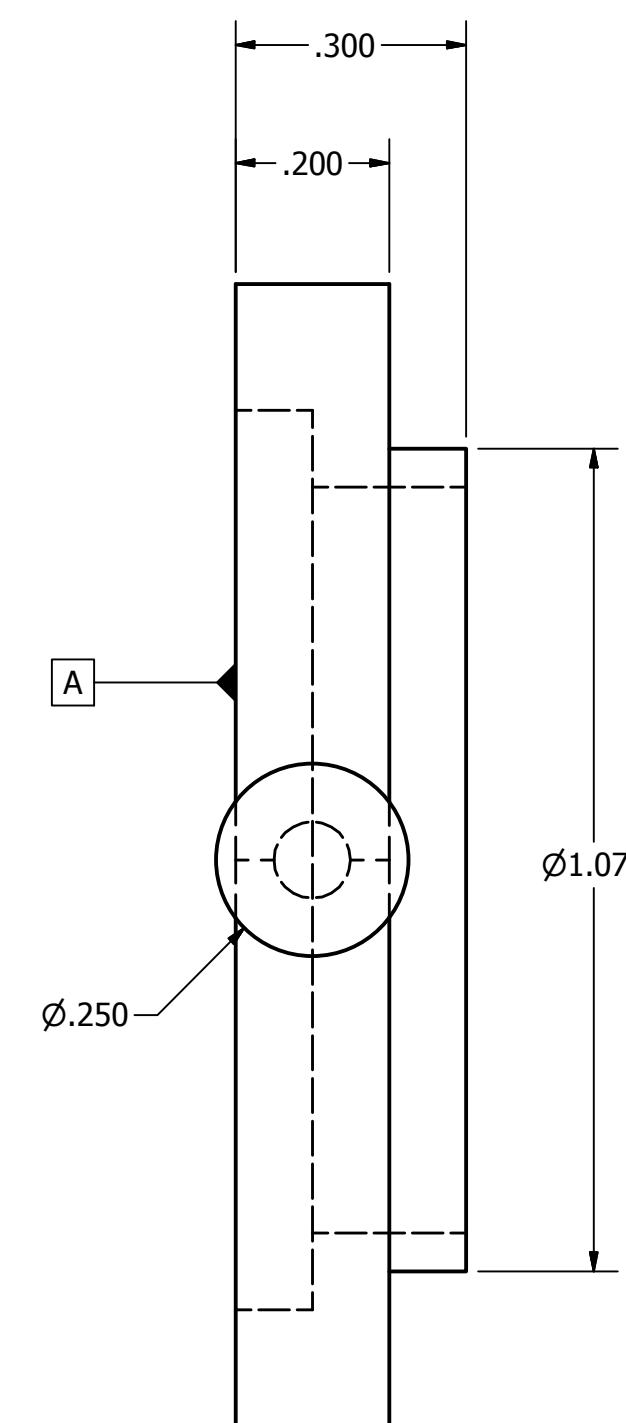
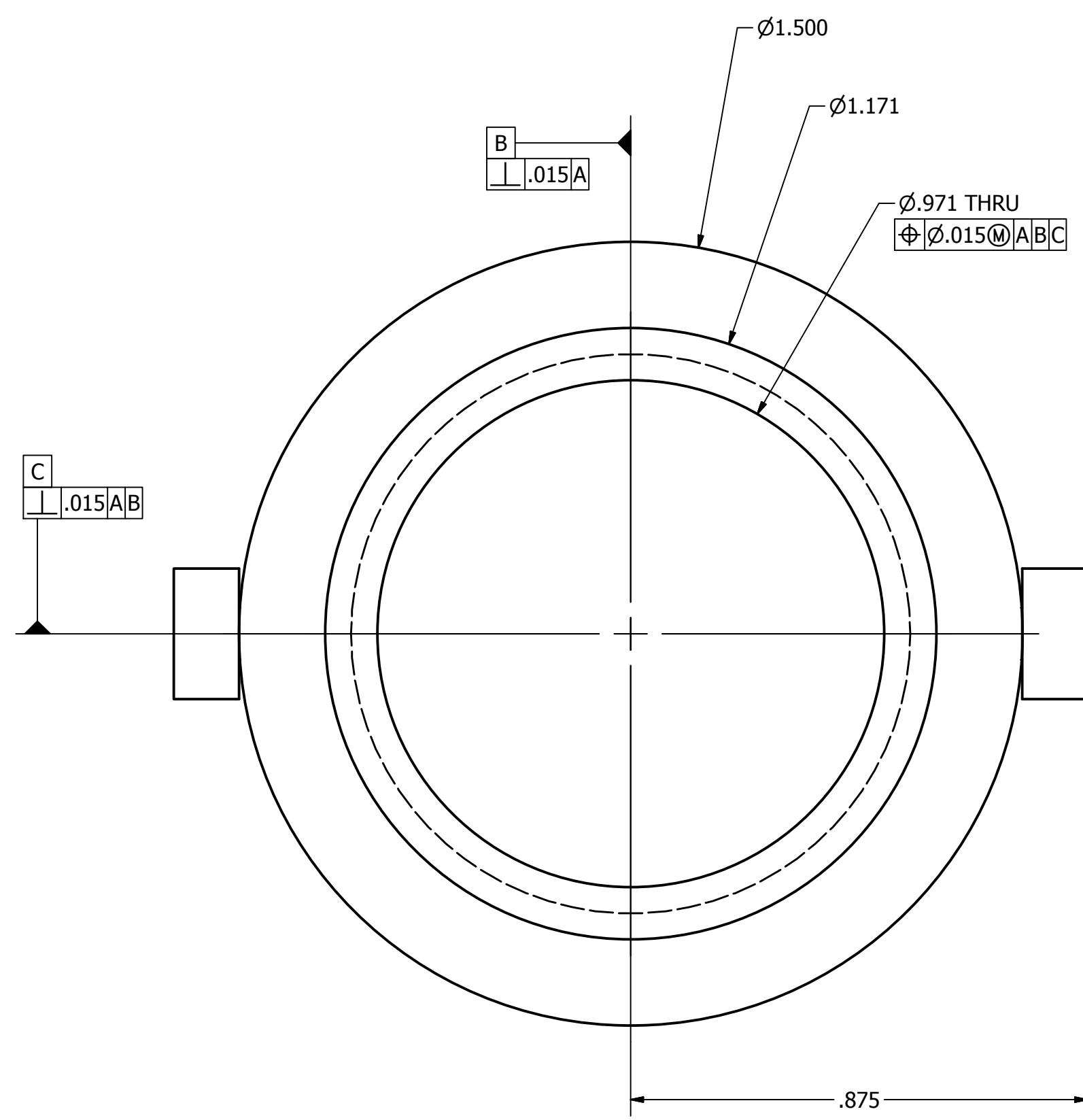
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PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

NOTES: UNLESS OTHERWISE SPECIFIED

1 INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995



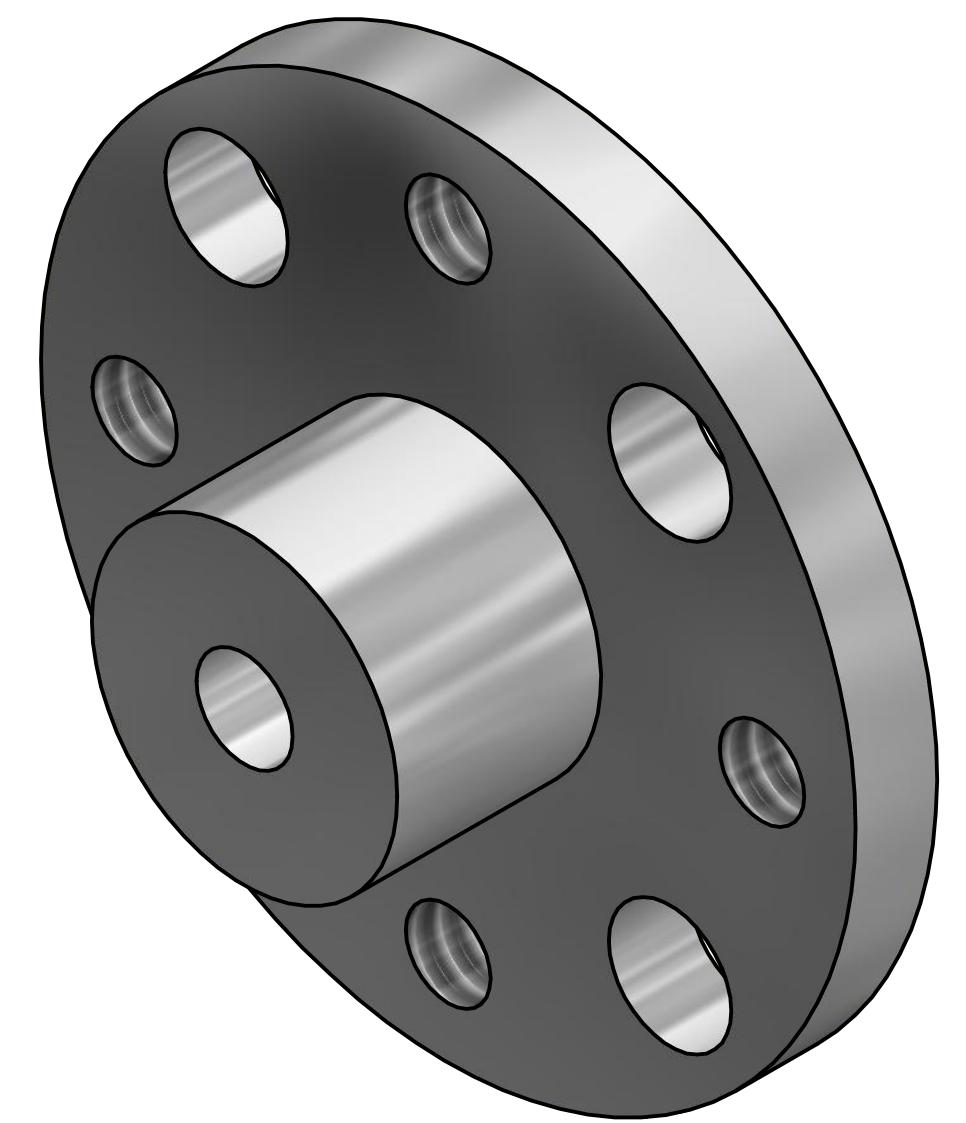
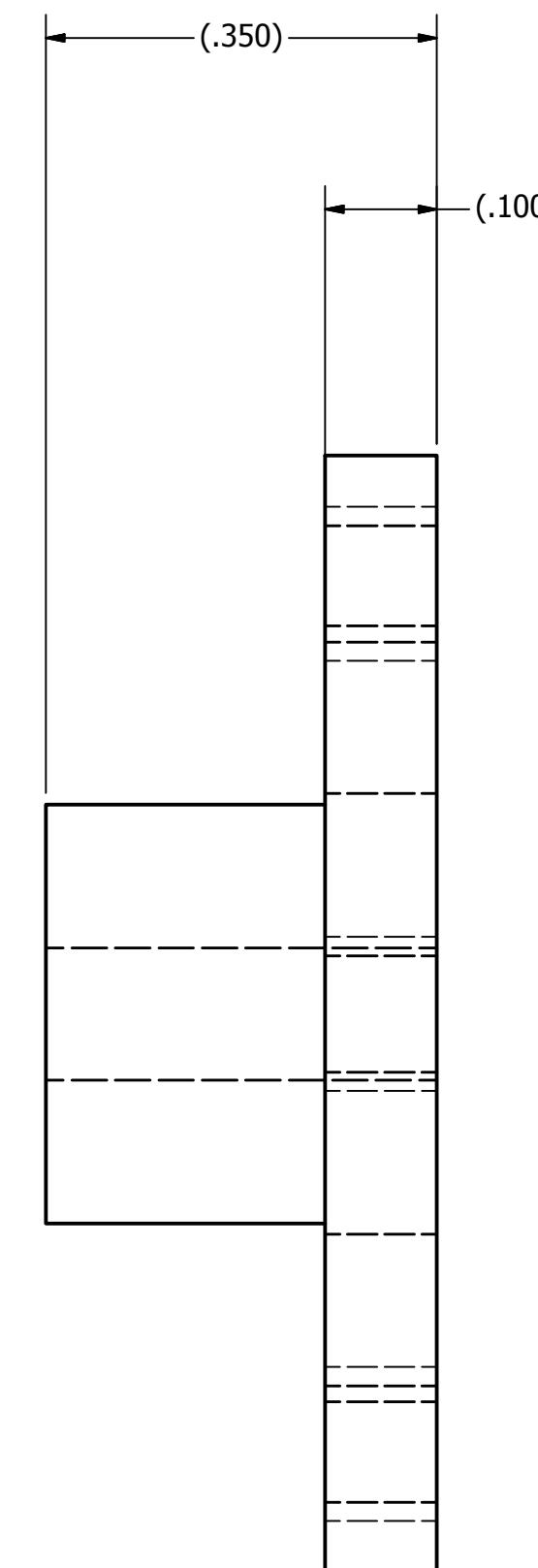
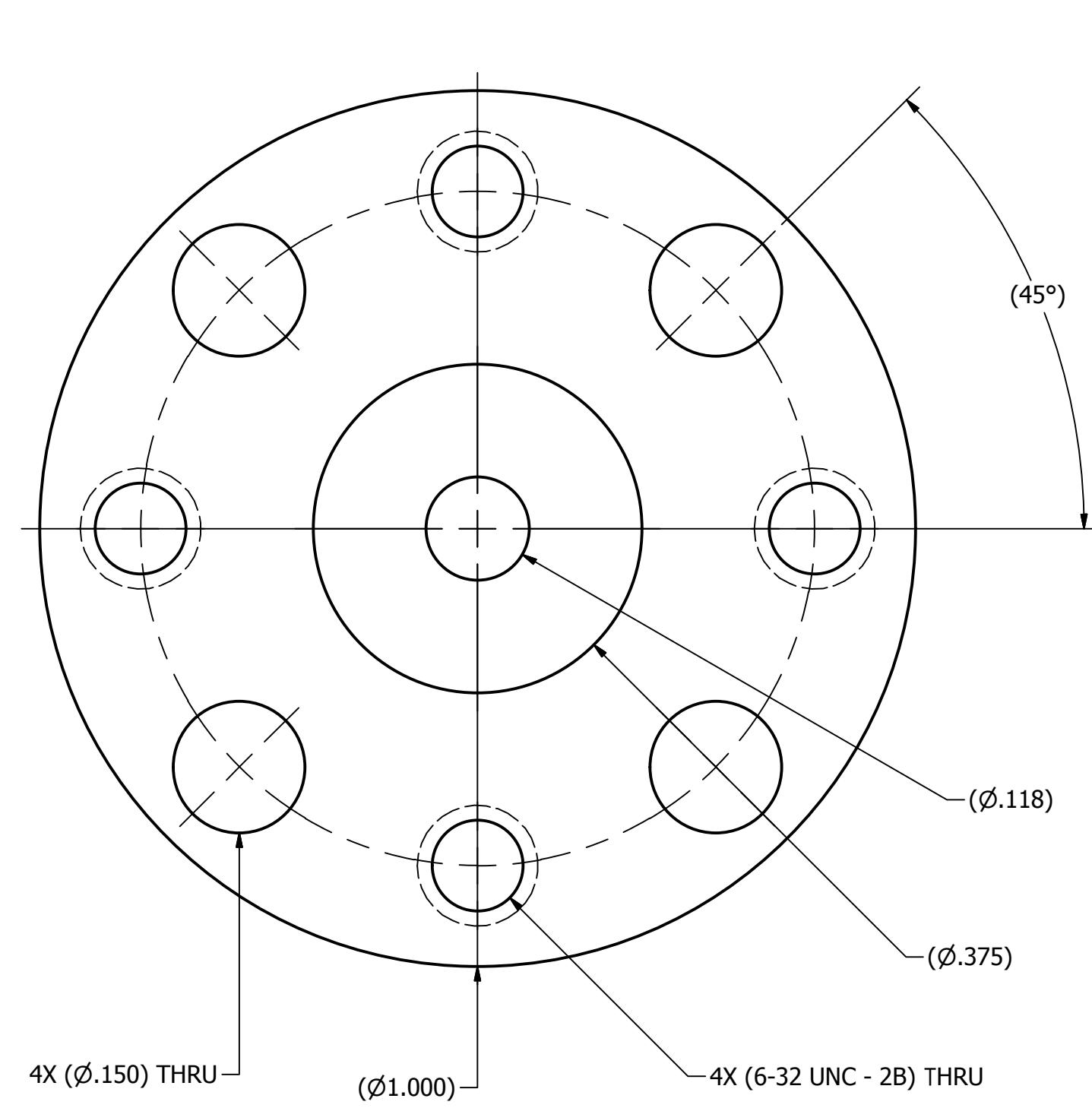
2	1	03-20-02	SENSOR MOUNT					
ITEM	QTY	PART NUMBER		DESCRIPTION			SPECIFICATIONS	
MATERIAL: ABS PLASTIC		UNLESS OTHERWISE SPECIFIED			DRAWN:	4/11/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES	
		TOLERANCES ON ALL HOLE DIAMETERS			CHECKED:	4/24/2013		
		UNDER .014 0	+.0020 -.0005	.500 THRU .750	+.008 -.001	O. MIAH		
FINISH:		.014 THRU .125	+.004 -.001	.751 THRU 1.000	+.010 -.001	QA: D. DOAN		4/24/2013
		.126 THRU .250	+.005 -.001	1.000 THRU 2.000	+.012 -.001	MFG: M. DELORIO		4/24/2013
		WEIGHT: 0.008 LBS	.251 THRU .500	+.006 -.001	OVER 2.000	+.015 -.005		APPROVED: L. LY
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°	 DELTA TECHNOLOGIES		TITLE: IPT, HAS ARM, SENSOR MOUNT		
				SIZE:	DWG NO:	D 03-20-02		REV: —
				SCALE:	4:1	SUBSYSTEM: GAS/HAS ARMS		SHEET: 1 OF 1

PRODUCED BY AN AUTOODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

SUGGESTED SOURCE OF SUPPLY		
CAGE	PART NO.	NAME + ADDRESS
N/A	545348	ServoCity 3850 East 12th Avenue Winfield, KS 67156 (620) 221-0123 Orders@ServoCity.com

REVISION HISTORY		
REV	DESCRIPTION	APPROVED



NOTES: UNLESS OTHERWISE SPECIFIED

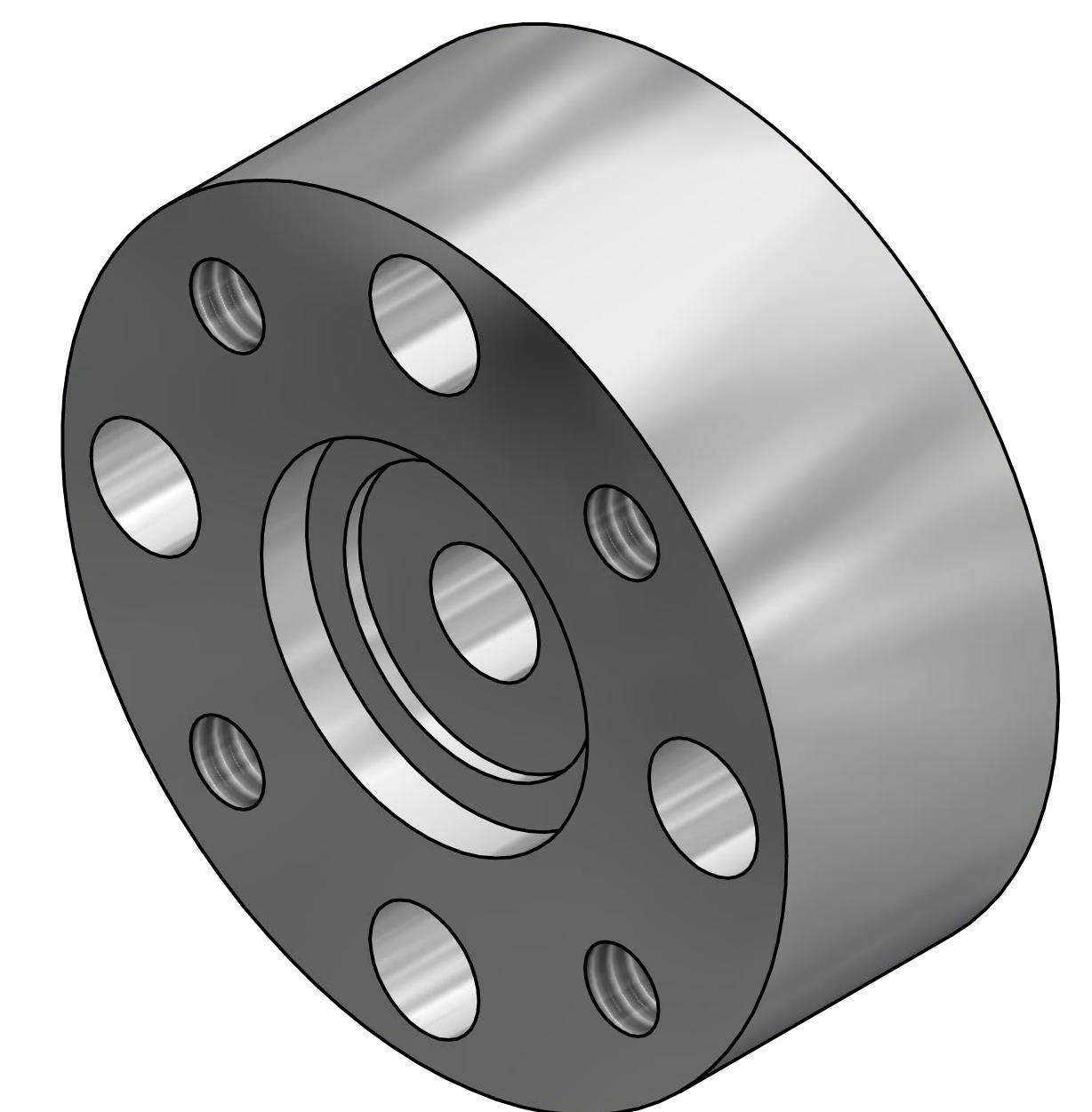
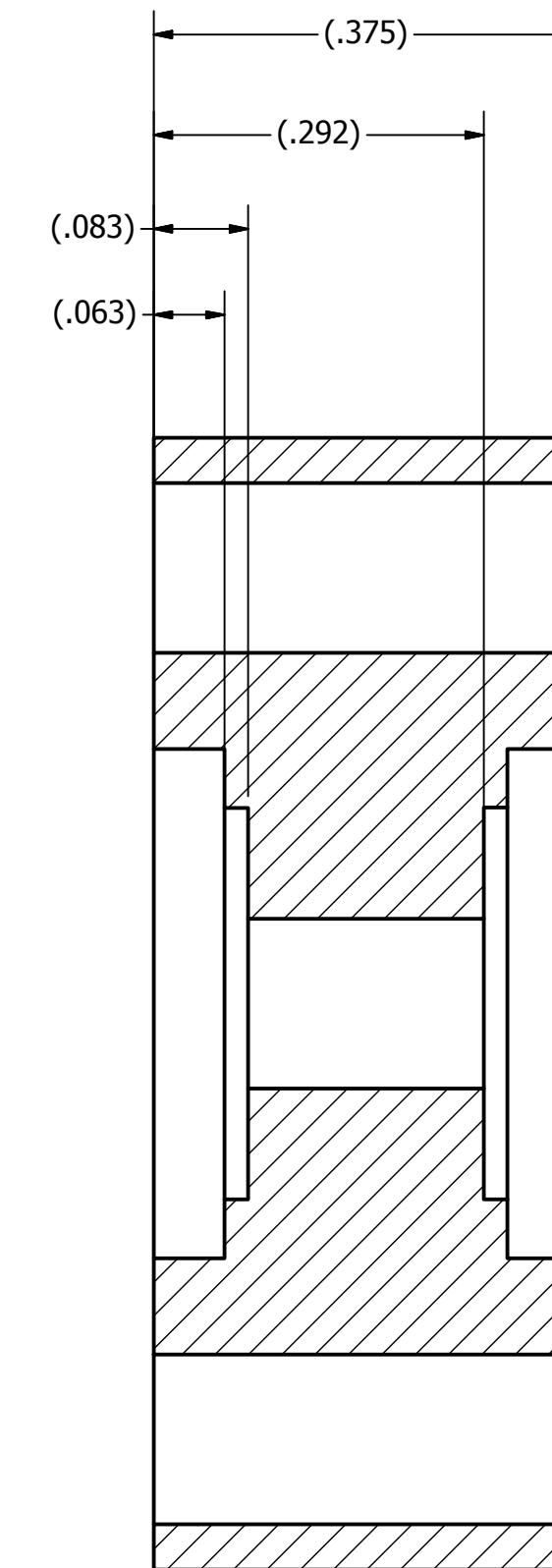
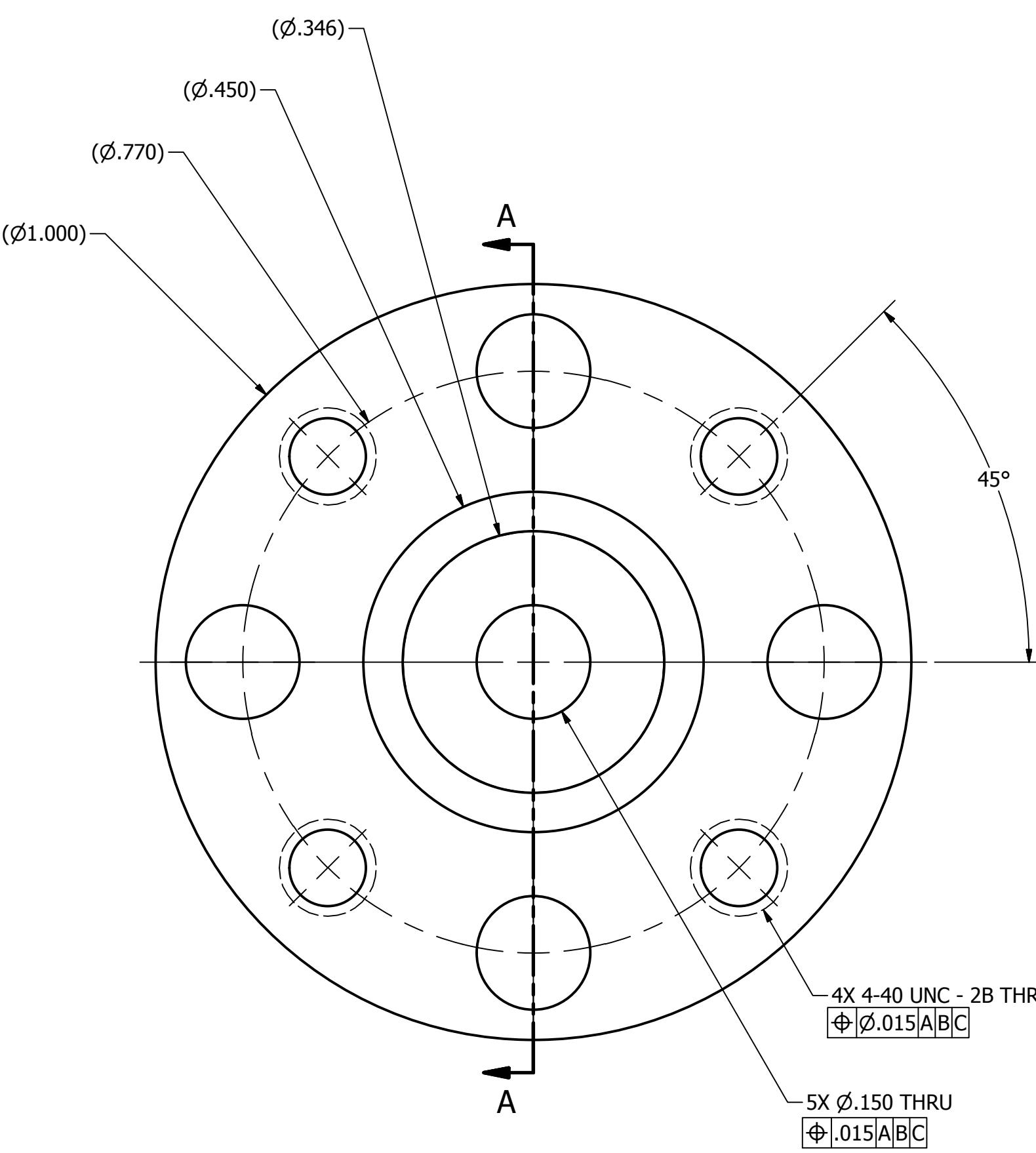
1 INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

SOURCE CONTROL DRAWING

3	1	545348	SET SCREW HUB						
ITEM	QTY	PART NUMBER	DESCRIPTION				SPECIFICATIONS		
MATERIAL:		UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS			DRAWN : D. DOAN	4/11/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES		
FINISH:		UNDER .014	.0020 .0005	.500 THRU .750	.008 .001	CHECKED : O. MIAH	4/24/2013		
.014 THRU .125		.004 .001	.751 THRU 1.000	.010 .001	QA : D. DOAN	4/24/2013			
.126 THRU .250		.005 .001	1.000 THRU 2.000	.012 .001	MFG : M. DELORIO	4/24/2013			
WEIGHT: 0.009 LBS		.251 THRU .500	.006 .001	OVER 2.000	.018 .005	APPROVED : L LY	4/24/2013	TITLE : OTS, SET SCREW HUB	
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.			ON DECIMAL DIMENSIONS: .XXX ± .010	ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°	 DELTA TECHNOLOGIES	SIZE : D DWG NO : 03-20-03		REV : -	
			.XX ± .03			SCALE : 6:1	SUBSYSTEM : GAS/HAS ARMS	SHEET : 1 OF 1	

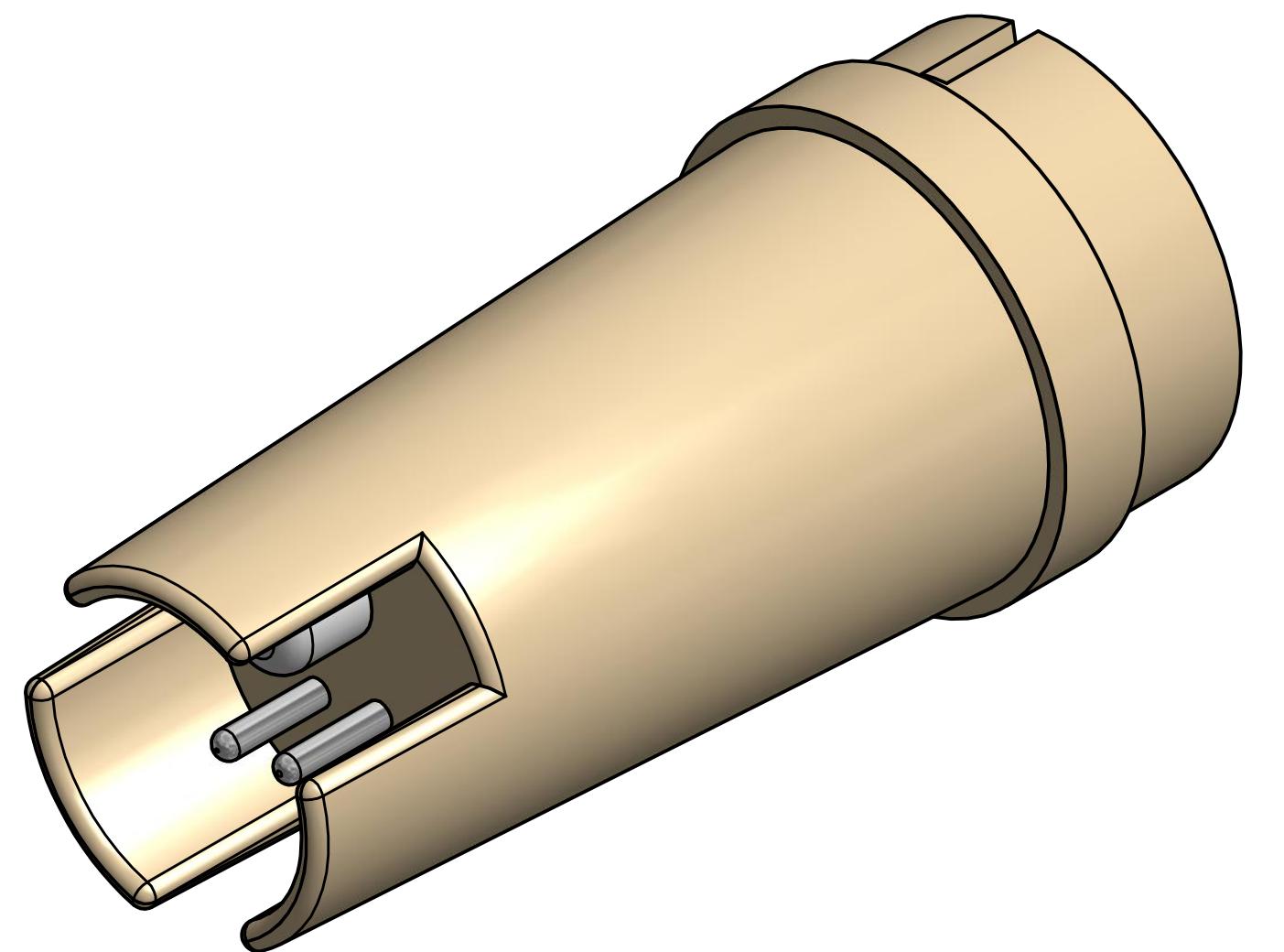
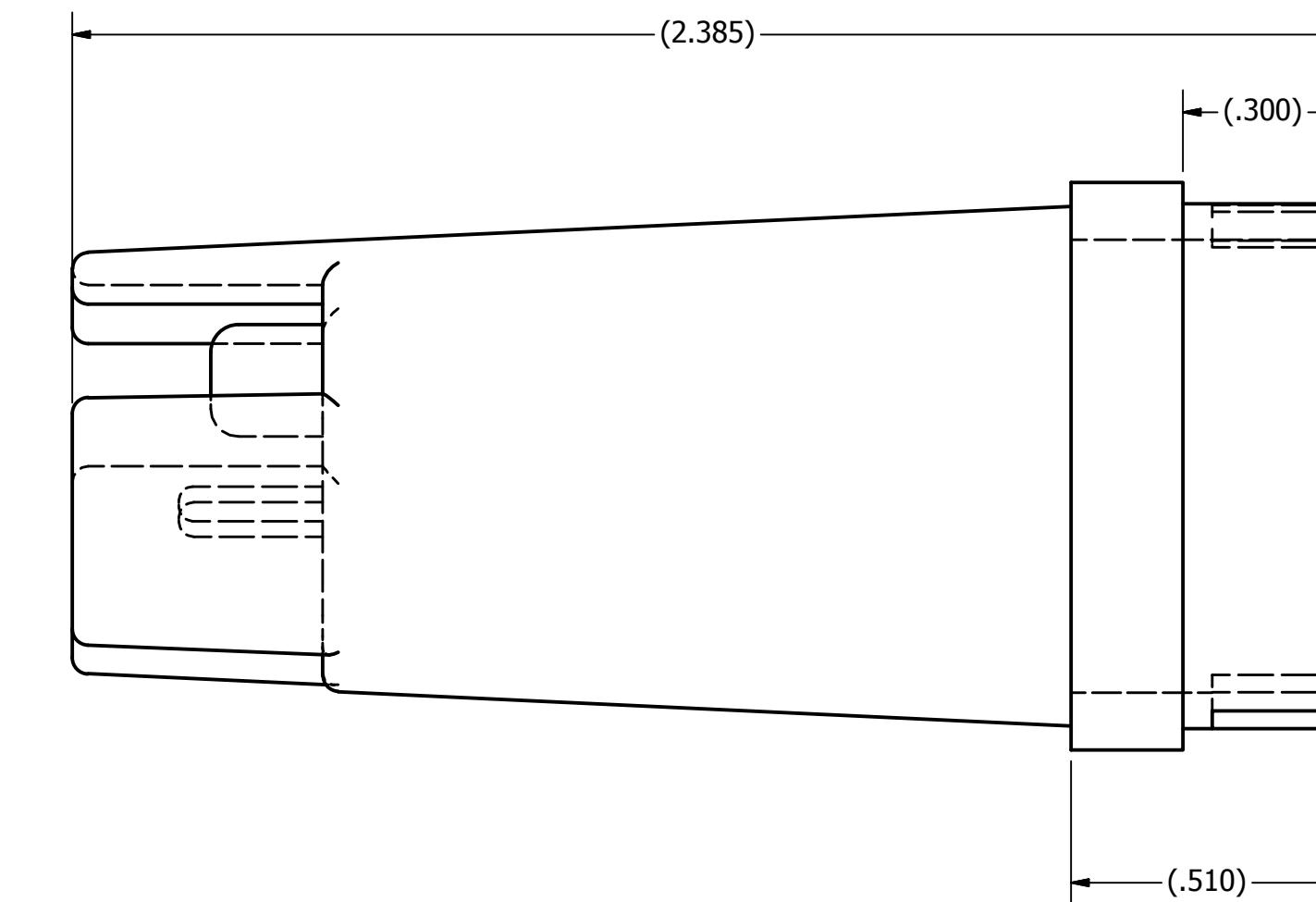
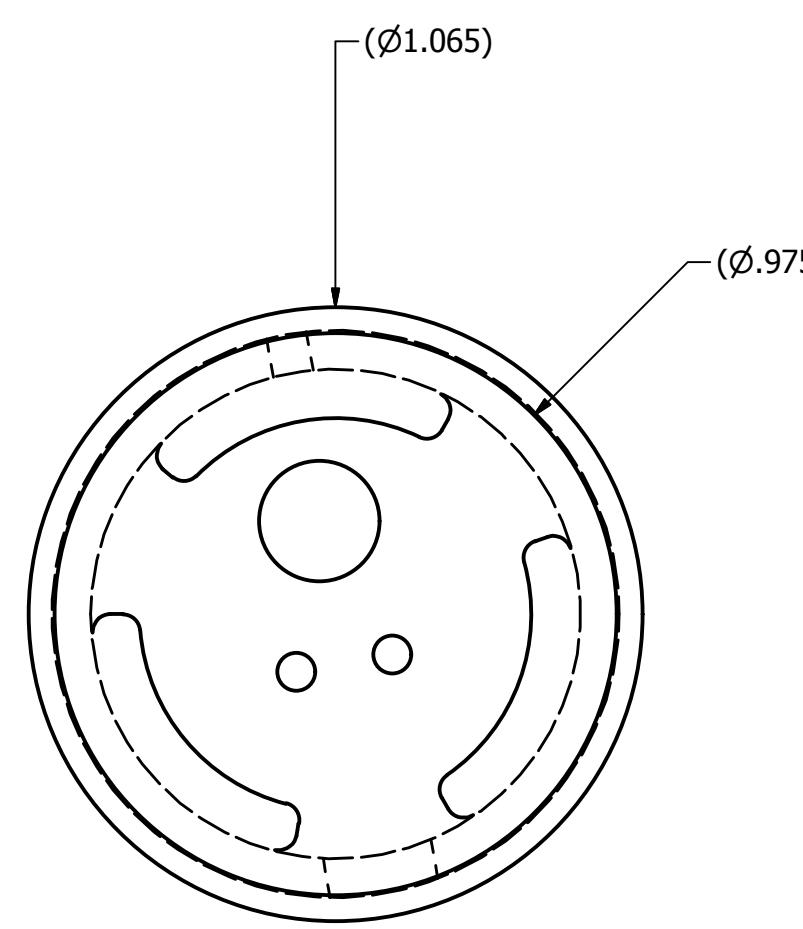
SUGGESTED SOURCE OF SUPPLY			REVISION HISTORY		
CAGE	PART NO.	NAME + ADDRESS	REV	DESCRIPTION	APPROVED
N/A	545364	ServoCity 3850 East 12th Avenue Winnfield, KS 67156 (620) 221-0123 Orders@Servocity.com	-	-	-



SOURCE CONTROL DRAWING

ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATIONS
4	1	545364	SWIVEL HUB	
MATERIAL			DRAWN : D. DOAN 4/11/2013	
FINISH			CHECKED : J. MIAH 4/24/2013	
WEIGHT	0.022 LBS	251 THRU 500	D. DOAN 4/24/2013	
		OVER 2,000	M. DELORIO 4/24/2013	
			APPROVED L. LYE 4/24/2013	
NOTES: UNLESS OTHERWISE SPECIFIED			ON DIMENSION	
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995			ON ANGULAR DIMENSIONS	
			MACHINED $\pm 0.30^\circ$	
			LOCATING $\pm 0.30^\circ$	
			CHAMFERS $\pm 5^\circ$	
			DETA TECHNOLOGIES	
			SIZE DWG NO: D 03-2004	REV: -
			SCALE 6:1	
			SUBSYSTEM GAS/HAS/NRM	
			HEET 1 OF 1	

REV	DESCRIPTION	APPROVED
-	-	-



SOURCE CONTROL DRAWING

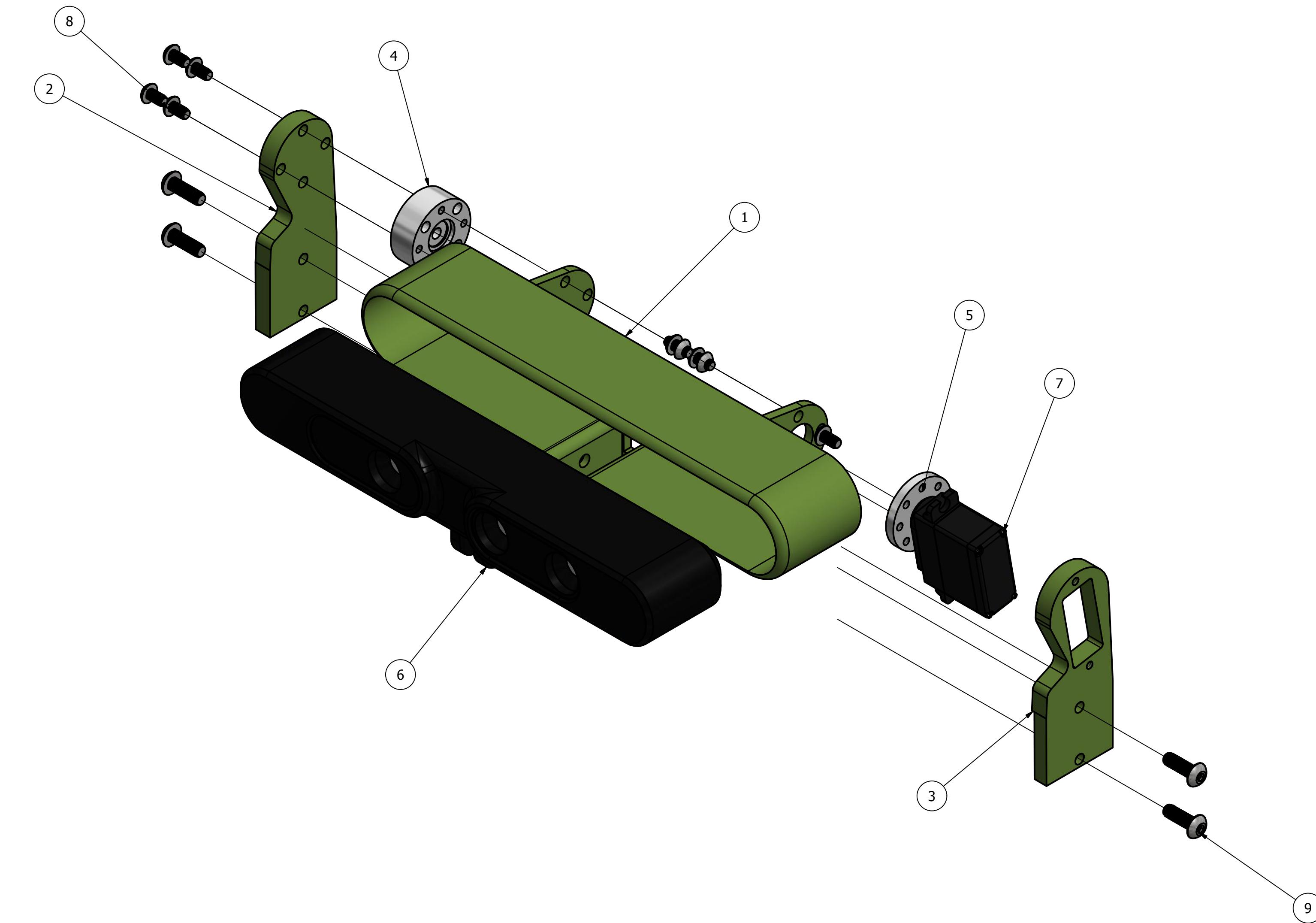
NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

SUGGESTED SOURCE OF SUPPLY		
CAGE	PART NO.	NAME + ADDRESS
N/A	HMDCOM100	Hydrofarm Inc. 2249 S McDowell Blvd Petaluma, CA 94954 (707) 765-9990

ITEM	QTY	PART NUMBER	PPM SENSOR	DESCRIPTION	SPECIFICATIONS
MATERIAL:			UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN: J. FIGUEROA 4/11/2013	
FINISH:			UNDER .014 .0 .014 THRU .125 .126 THRU .250	CHECKED: O. MIAH D. DOAN M. DELORIO APPROVED: L. LYE 4/24/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES
WEIGHT:		0.065 LBS	OVER 2.000	4/24/2013	TITLE: OTS, PPM SENSOR
			1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DIMAL DIMENSIONS: XXX ±.010 XX ±.03 X ±.1	ON ANGULAR DIMENSIONS: MACHINED ±.03° LOCATING ±.03° CHAMFERS ±.5°
					SIZE: DWG NO: D 03-2005 REV: -
					SCALE: 6:1 SUBSYSTEM GAS/HASARMS SHEET 1 OF 1

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994

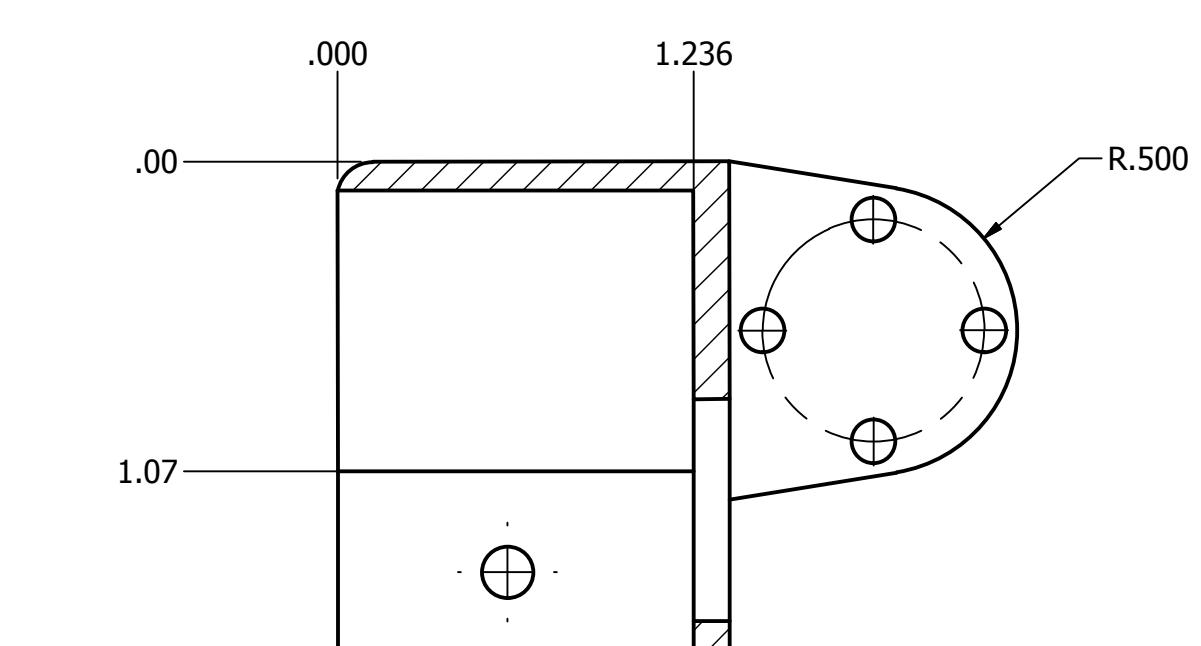
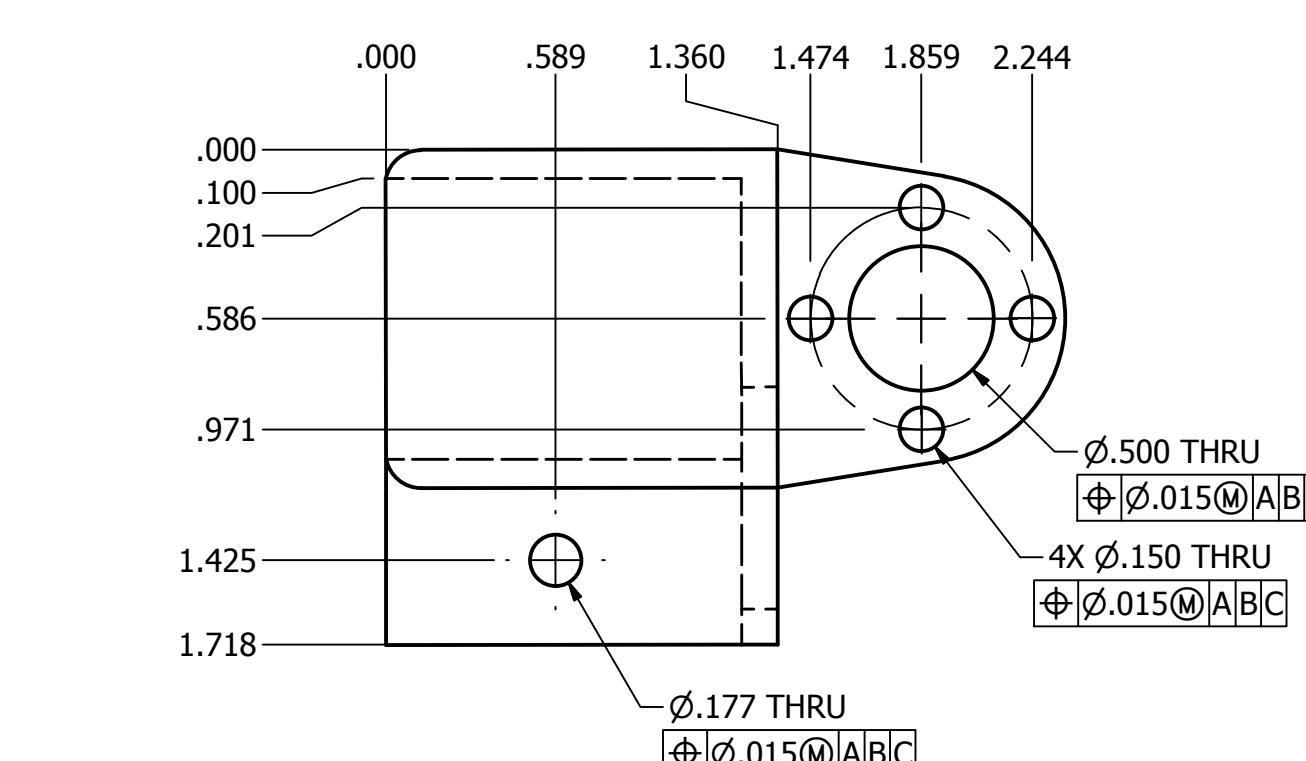
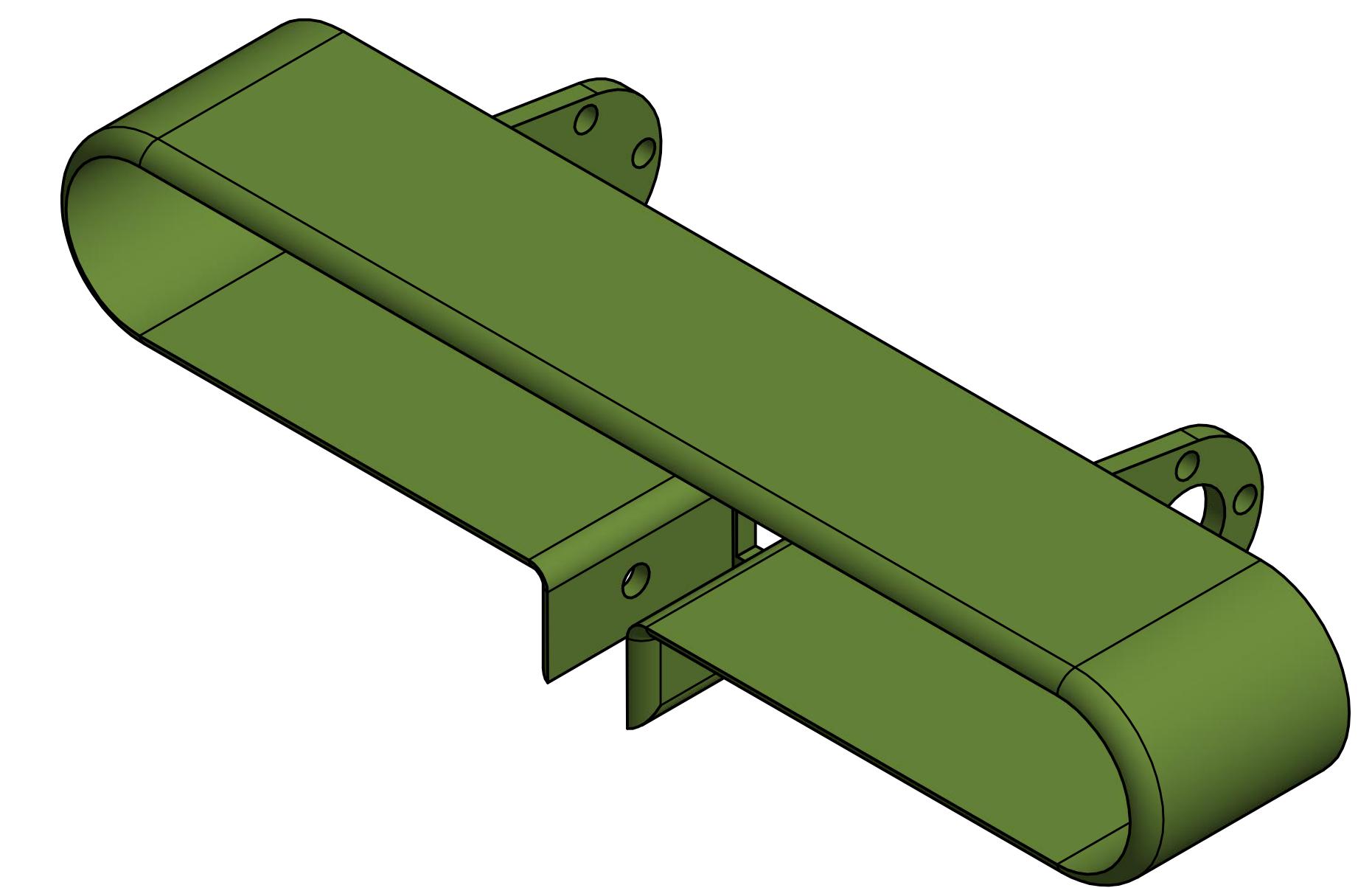
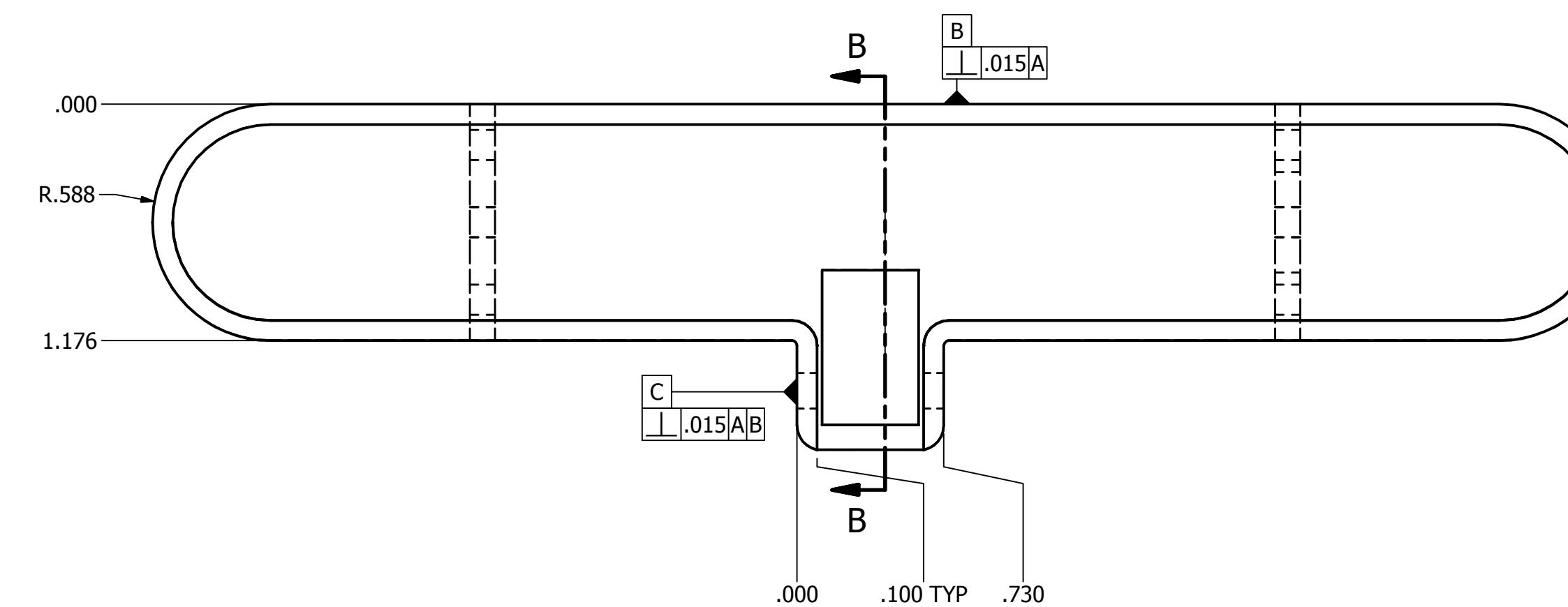
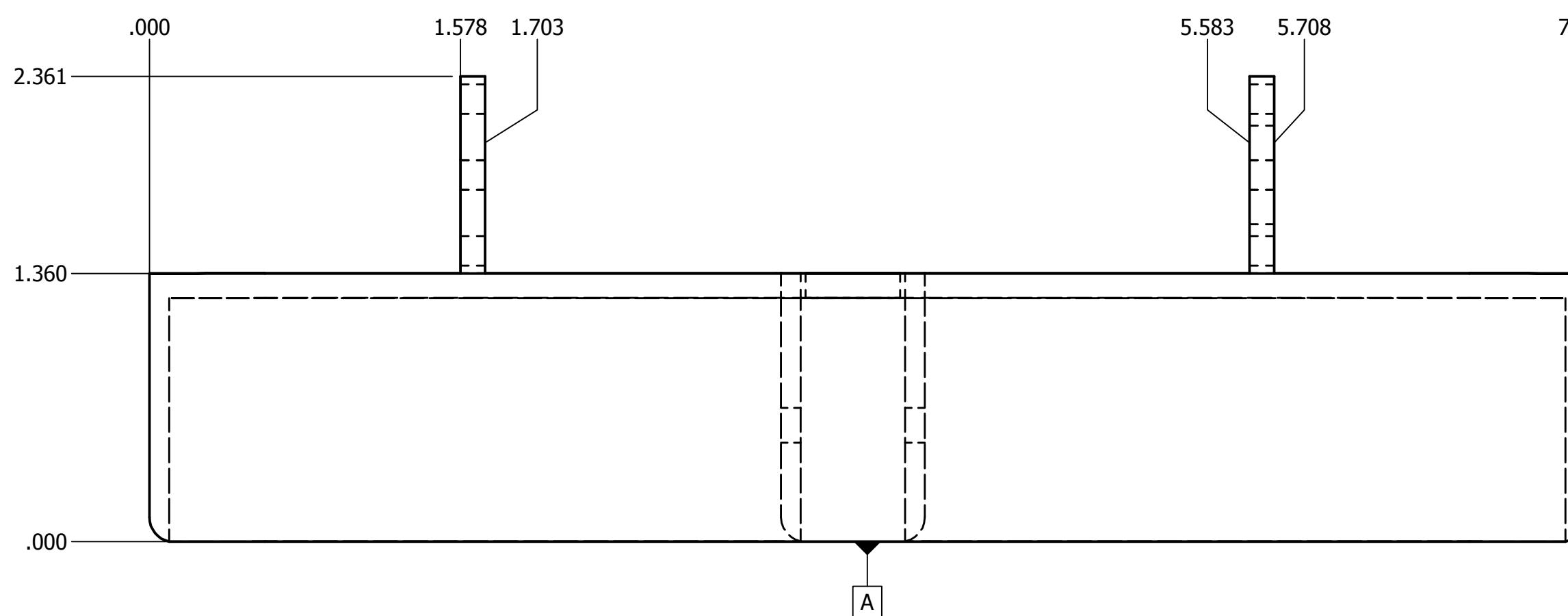
9	4	91255A194	OTS, ALLOY STEEL BUTTON HEAD SOCKET CAP SCREW 8-32 THREAD, 1/2" LENGTH
8	14	91255A144	OTS, ALLOY STEEL BUTTON HEAD SOCKET CAP SCREW 6-32 THREAD, 1/4" LENGTH
7	1	HS85MG	OTS, MIGHTY MICRO MOTOR
6	1	N82E16826785047	OTS, ASUS XTION
5	1	525124	OTS, LIGHTWEIGHT HUB HORN
4	1	545364	OTS, SWIVEL HUB
3	1	04-10-03	IPT, CAMERA TILT, MOUNTING PLATE B
2	1	04-10-02	IPT, CAMERA TILT, MOUNTING PLATE A
1	1	04-10-01	IPT, CAMERA TILT, ASUS MOUNT

ITEM	QTY	PART NUMBER			DESCRIPTION			
MATERIAL:	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS			DRAWN : J. FIGUEROA	4/11/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES		
	UNDER .014	.014	.0020 -.0005	.500 THRU .750	+.008 -.003	CHECKED : O. MIAH	4/24/2013	
	.14 THRU .125	.14	+.004 -.001	.751 THRU 1.000	+.010 -.001	QA : D. DOAN	4/24/2013	
	.126 THRU .250	.126	+.005 -.001	1.000 THRU 2.000	+.012 -.001	MFG : M. DELORIO	4/24/2013	
FINISH:	.251 THRU .500		+.006 -.001	OVER 2.000	+.015 -.005	APPROVED: L. LY	4/24/2013	TITLE : ASSY, CAMERA TILT
WEIGHT:	0.710 LBS							
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1		ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°		 DELTA TECHNOLOGIES		SIZE : D DWG NO : 04-10-00 REV : -
						SCALE : 1:1 SUBSYSTEM : ACTUATION SHEET : 1 OF 1		

↓

REVISION HISTORY		
REV	DESCRIPTION	APPROVED
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8 7 6 5 4 3 2 1 D D



SECTION B-B
SCALE 3/2

NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATION
MATERIAL			UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN: J. FIGUEROA 4/11/2013
ABS PLASTIC			UNDER .014 .0 +.000 .500 THRU .750 .014 THRU .125 -.001 .750 THRU 1.000 .126 THRU .250 +.006 1.000 THRU 2.000 251 THRU .500 +.006 OVER 2.000	CHECKED: O. MIAH 4/24/2013 D. DOAN 4/24/2013 M. DELORIO 4/24/2013 APPROVED: L. LYE 4/24/2013
FINISH			+.000 -.001 +.001 -.001 +.002 -.001	MADE: CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES
WEIGHT	.121 LBS.			TITLE: IPT, CAMERA TILT, ASUS MOUNT
			1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DIMAL DIMENS. XXX ±.010 XX ±.03 X ±.1
				ON ANGULAR DIMENS. MACHINED ±.03° LOCATING ±.03° CHAMFERS ±.5°
				SIZE: DWG NO: D 04-10-01 REV: - SCALE: 3:2 SUBSYSTEM: CAMERA TILT SHEET: 1 OF 1

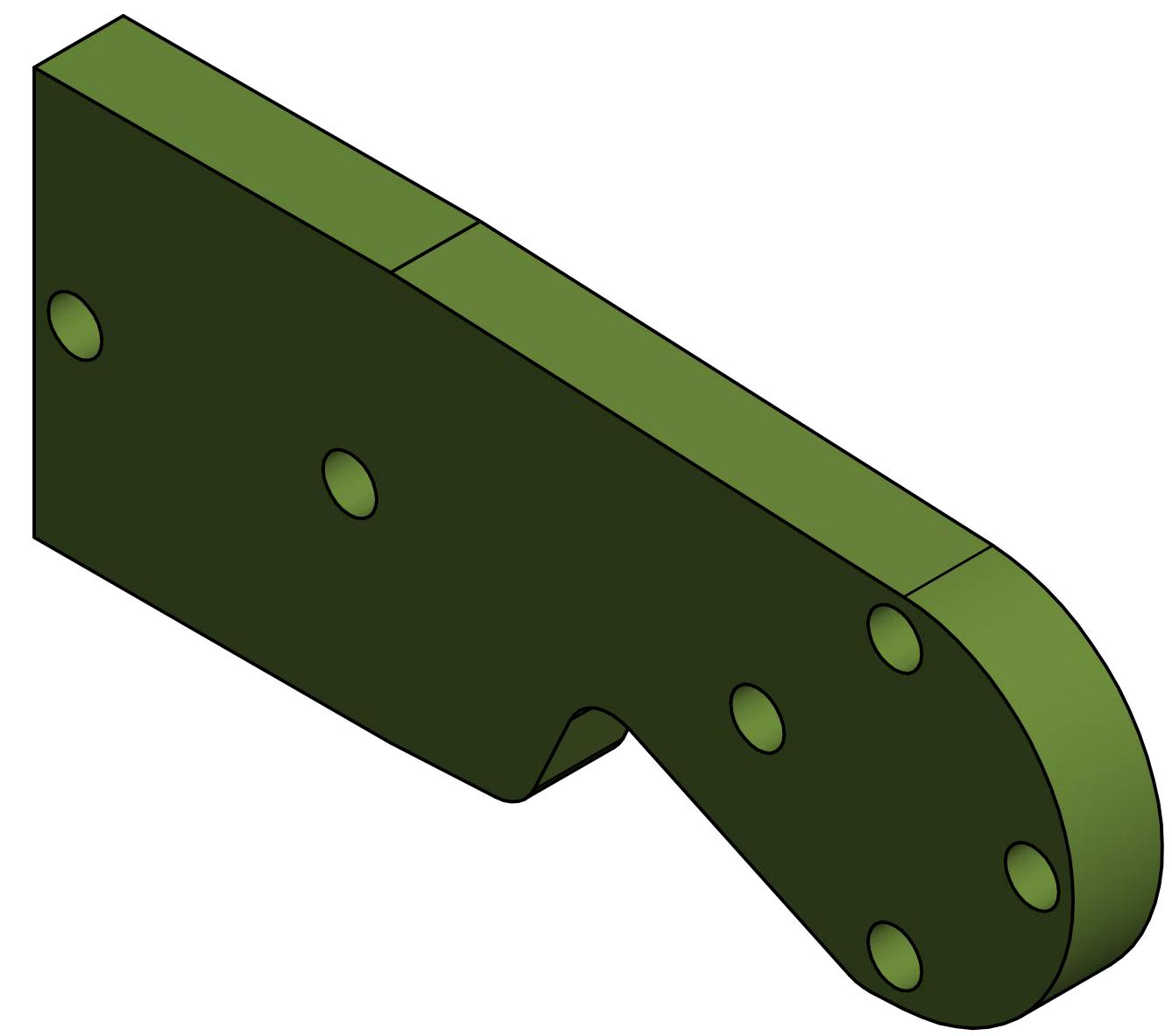
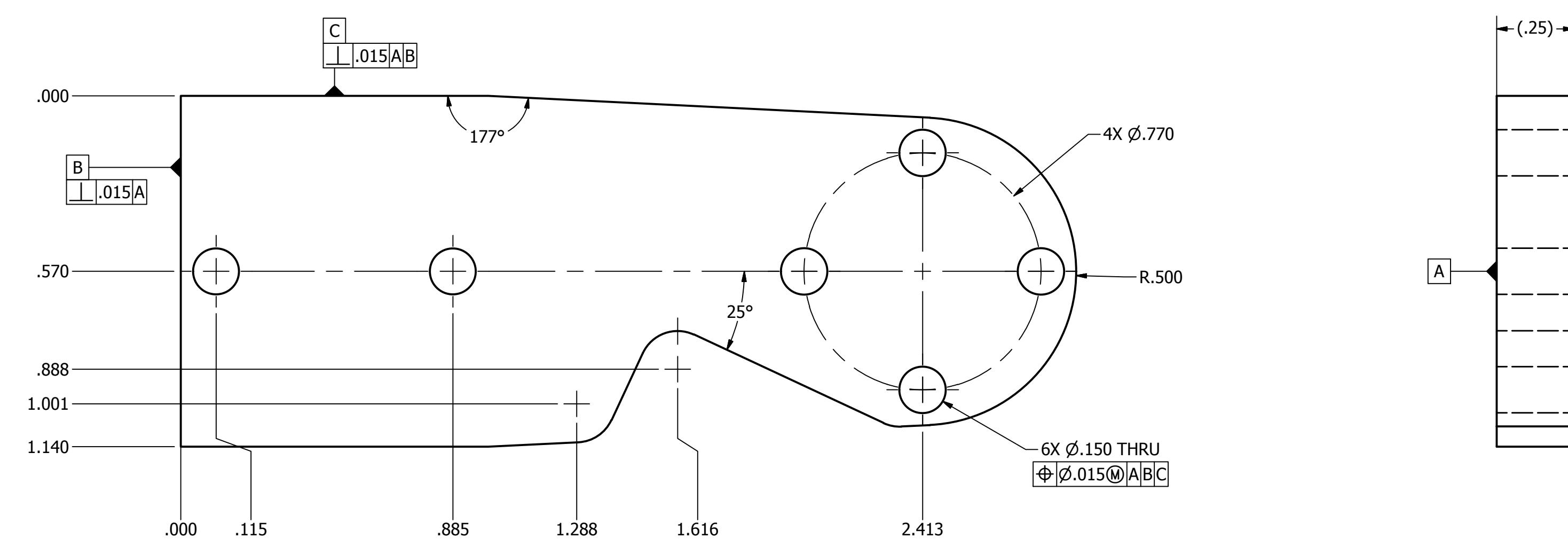
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

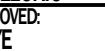
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

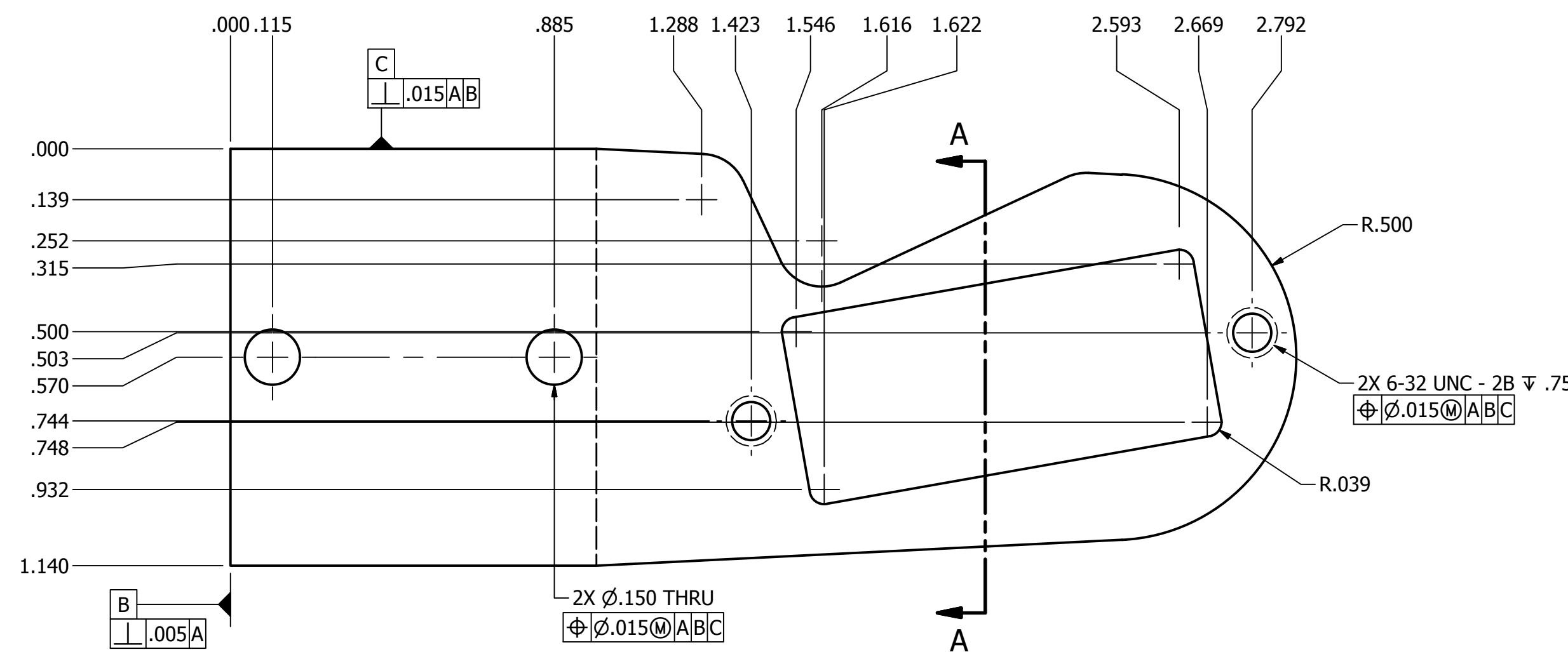
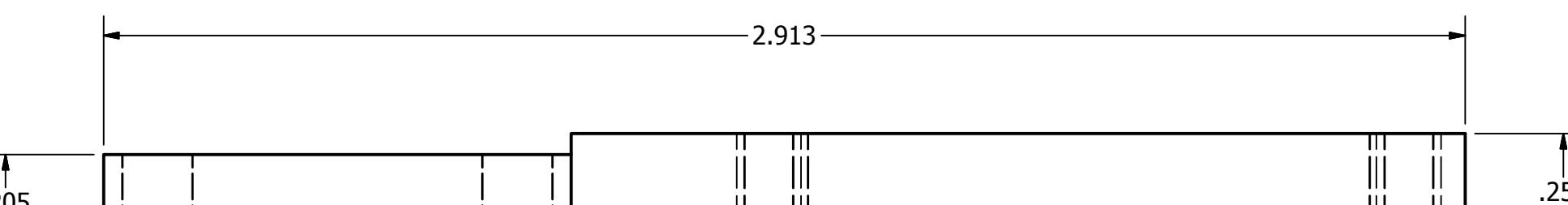
UNLESS OTHERWISE SPECIFIED

SET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

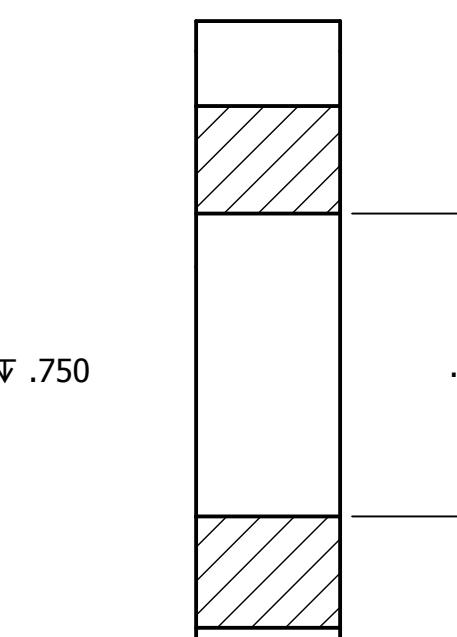
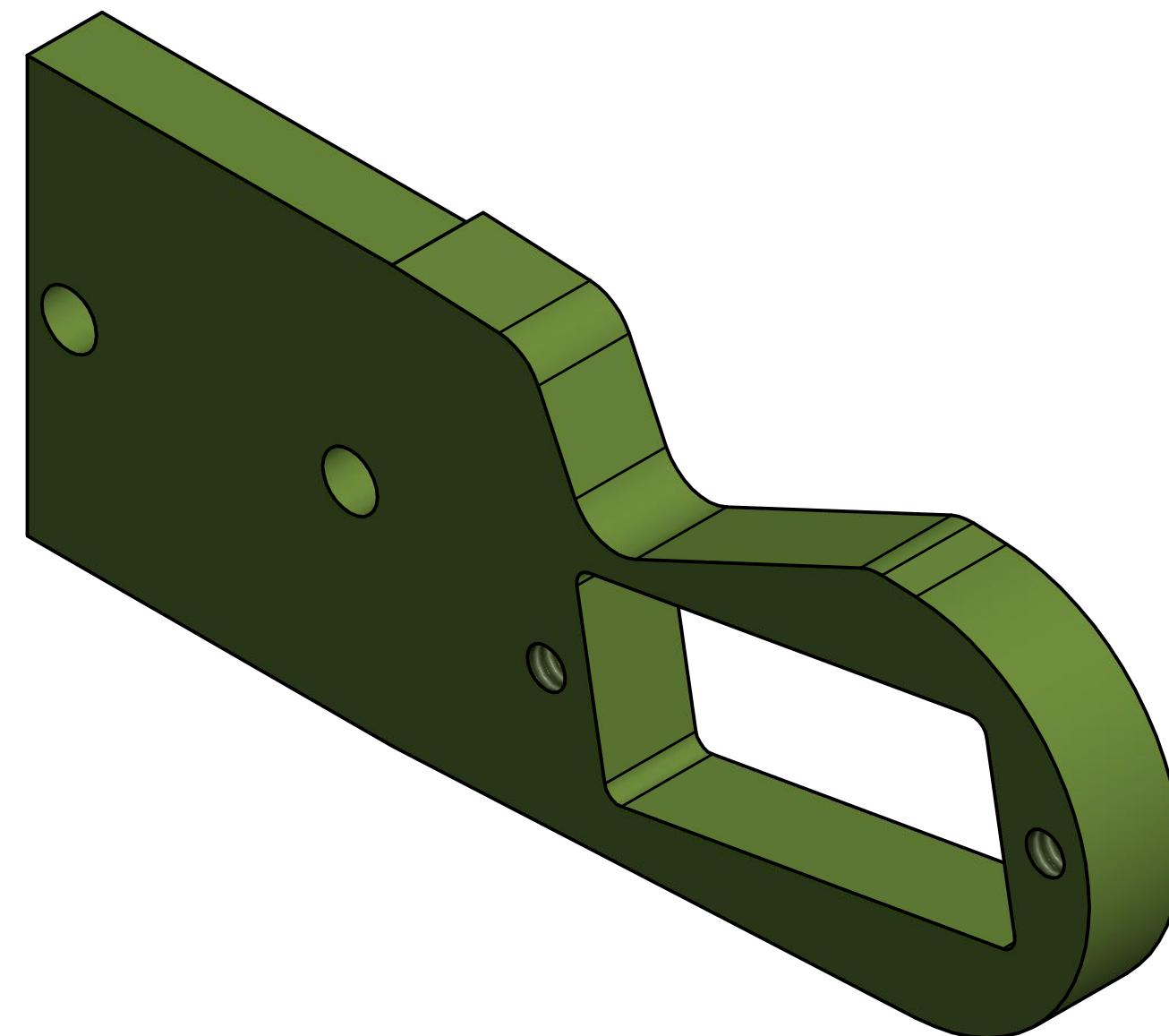
TS R.125



2	1	04-10-02	MOUNTING PLATE A						
ITEM	QTY	PART NUMBER		DESCRIPTION			SPECIFICATION		
MATERIAL: ABS PLASTIC		UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS			DRAWN: J. FIGUEROA	4/11/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES		
		UNDER .014 0	+.0020 -.0005	.500 THRU .750	+.008 -.001	CHECKED: O. MIAH			4/24/2013
		.014 THRU .125	+.004 -.001	.751 THRU 1.000	+.010 -.001	QA: D. DOAN			4/24/2013
		.126 THRU .250	+.005 -.001	1.000 THRU 2.000	+.012 -.001	MFG: M. DELORIO			4/24/2013
WEIGHT: .026 LBS.		.251 THRU .500	+.006 -.001	OVER 2.000	+.015 -.005	APPROVED: L. LYK			4/24/2013
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5'	 DELTA TECHNOLOGIES		TITLE: IPT, CAMERA TILT, MOUNTING PLATE A			
				SIZE: D	DWG NO: 04-10-02	REV: —			
				SCALE: 3:1	SUBSYSTEM: CAMERA TILT	SHEET: 1 OF 1			



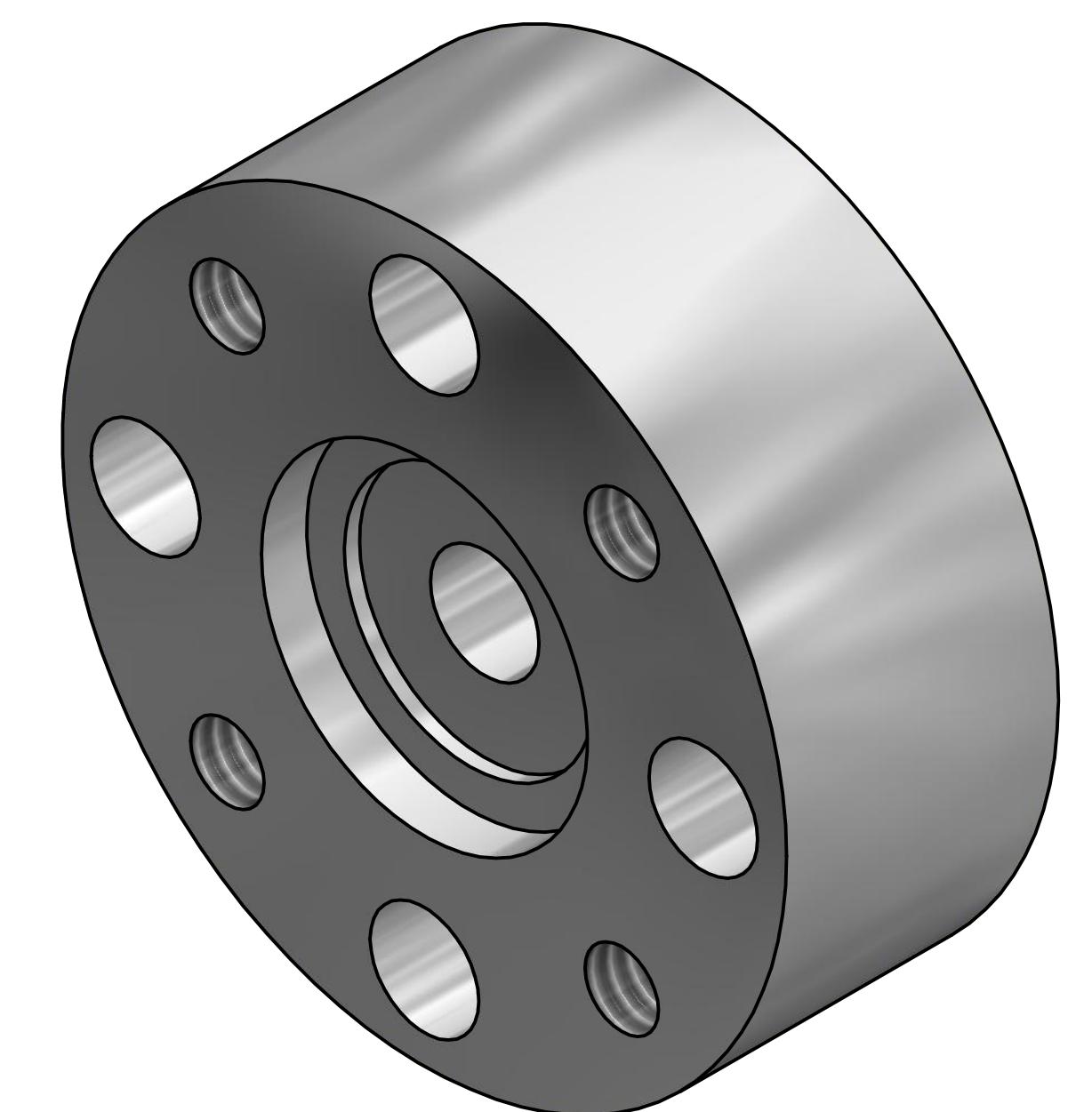
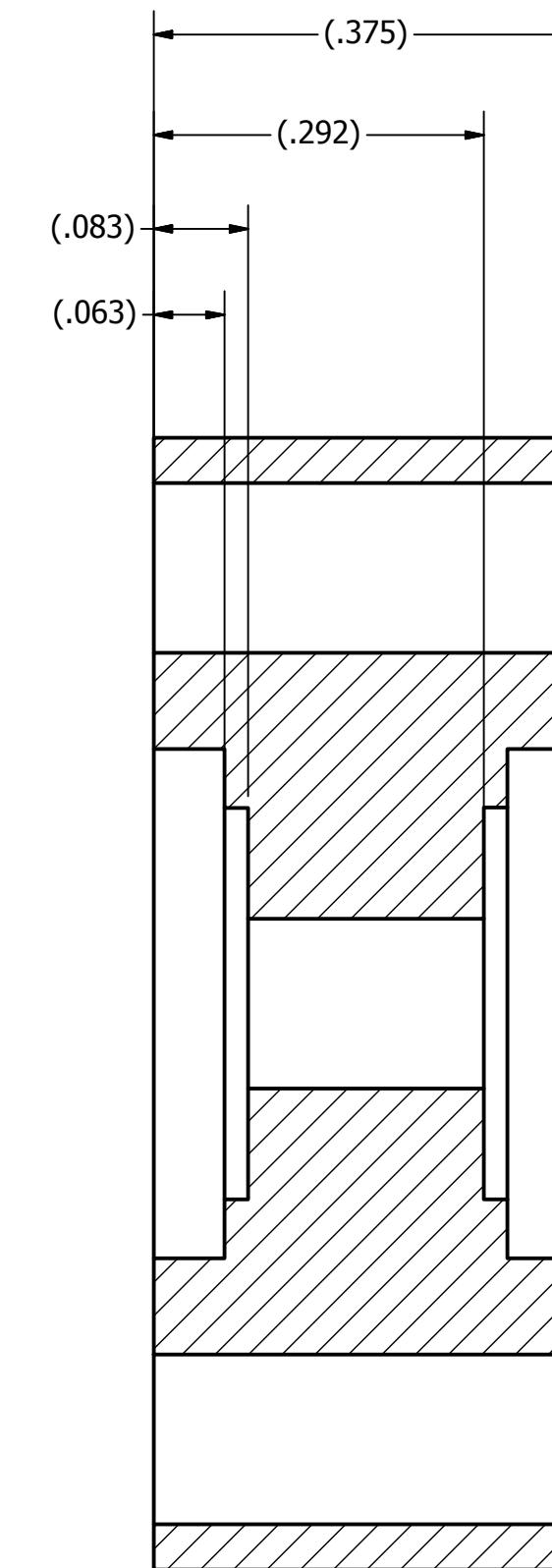
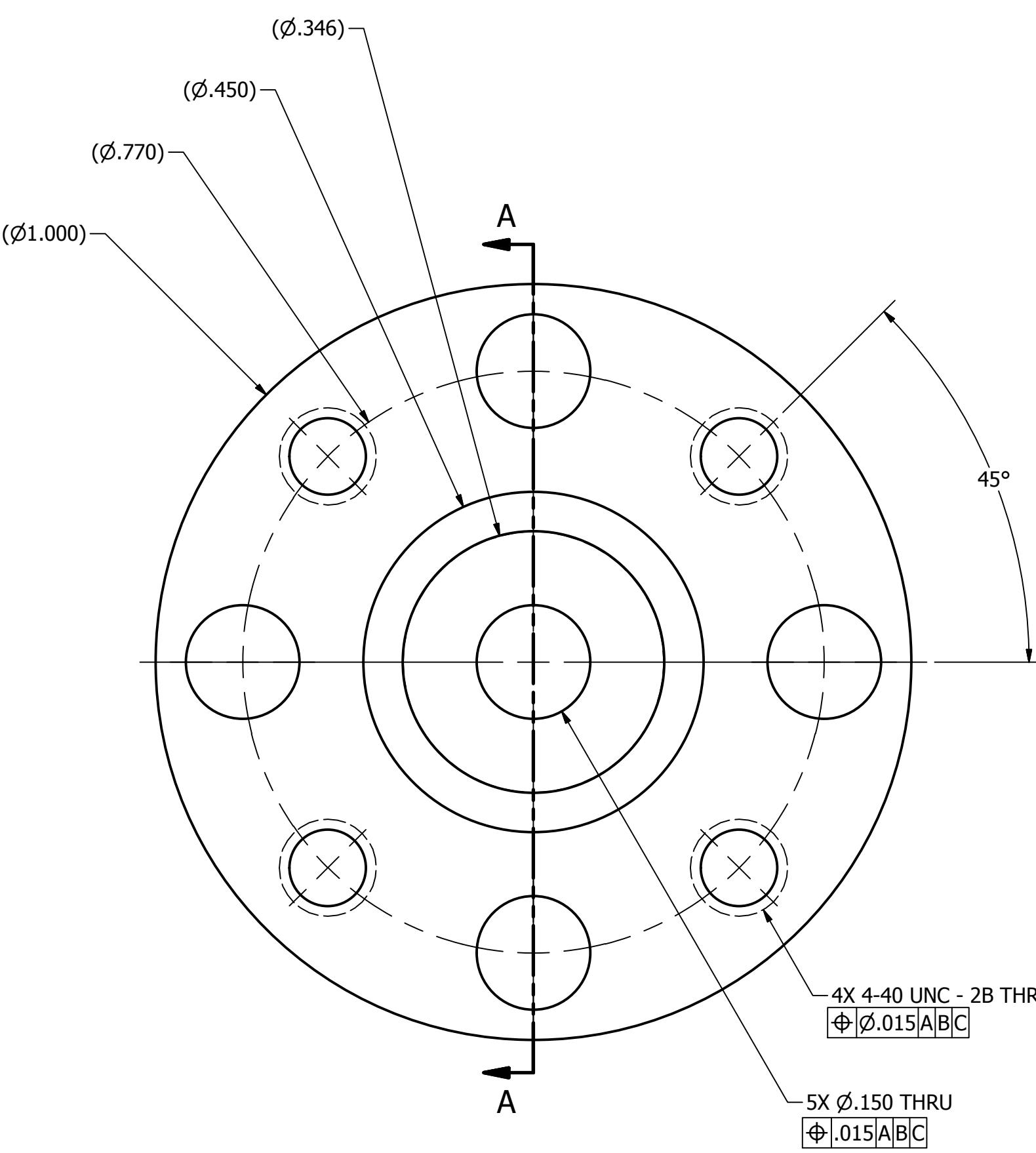
SECTION A-A
SCALE 3 : 1



NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995
2. ALL FILLETS R.125

ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATION
MATERIAL:		UNLESS OTHERWISE SPECIFIED ABS PLASTIC	DRAWN : J. FIGUEROA CHECKED : O. MIAH 4/11/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES
FINISH:		TOLERANCES ON ALL HOLE DIAMETERS UNDER .014 .000 .000 .014 THRU .125 .000 .000 .126 THRU .250 .006 .006 OVER .250 .006 .006	VERIFIED : D. DOAN 4/24/2013	TITLE: ASSY, CAMERA TILT, MOUNTING PLATE B
WEIGHT:	.019 LBS.	4/24/2013	APPROVED : M. DELORIO 4/24/2013	
		251 THRU 500 .000 .000 OVER 2,000 .005 .005	DRAWN : L. LYE 4/24/2013	
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DIMAL DIMENS. XXX ±.010 XX ±.03 X ±.1	ON ANGULAR DIMENS. MACHINED ±.03° LOCATING ±.03° CHAMFERS ±.5°	SIZE: DWG NO: D 04-10-03 REV: - SCALE: 3:1 SUBSYSTEM: CAMERA TILT SHEET: 1 OF 1

SUGGESTED SOURCE OF SUPPLY			REVISION HISTORY		
CAGE	PART NO.	NAME + ADDRESS	REV	DESCRIPTION	APPROVED
N/A	545364	ServoCity 3850 East 12th Avenue Winnfield, KS 67156 (620) 221-0123 Orders@Servocity.com	-	-	-



SECTION A-A
SCALE 6:1

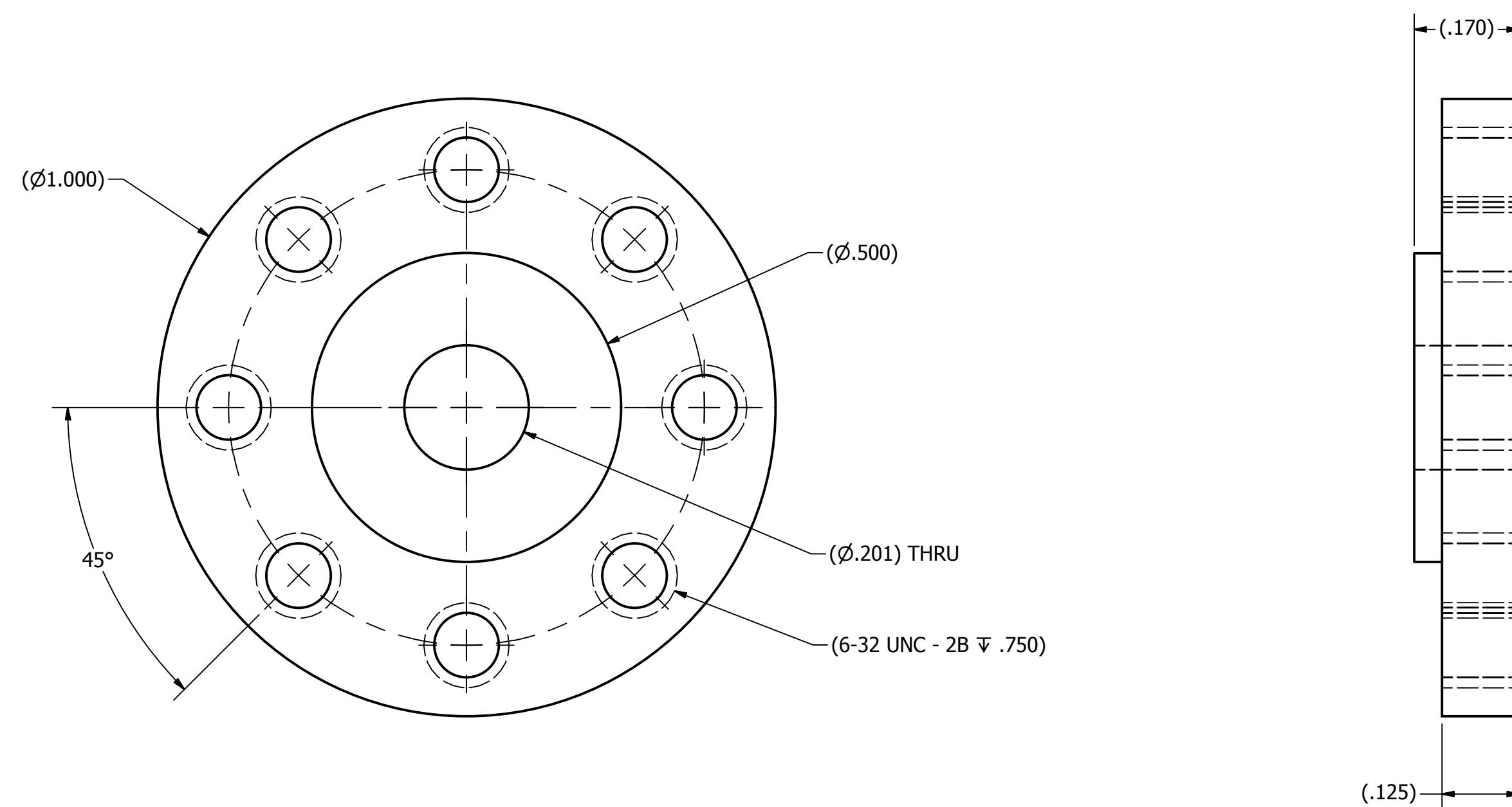
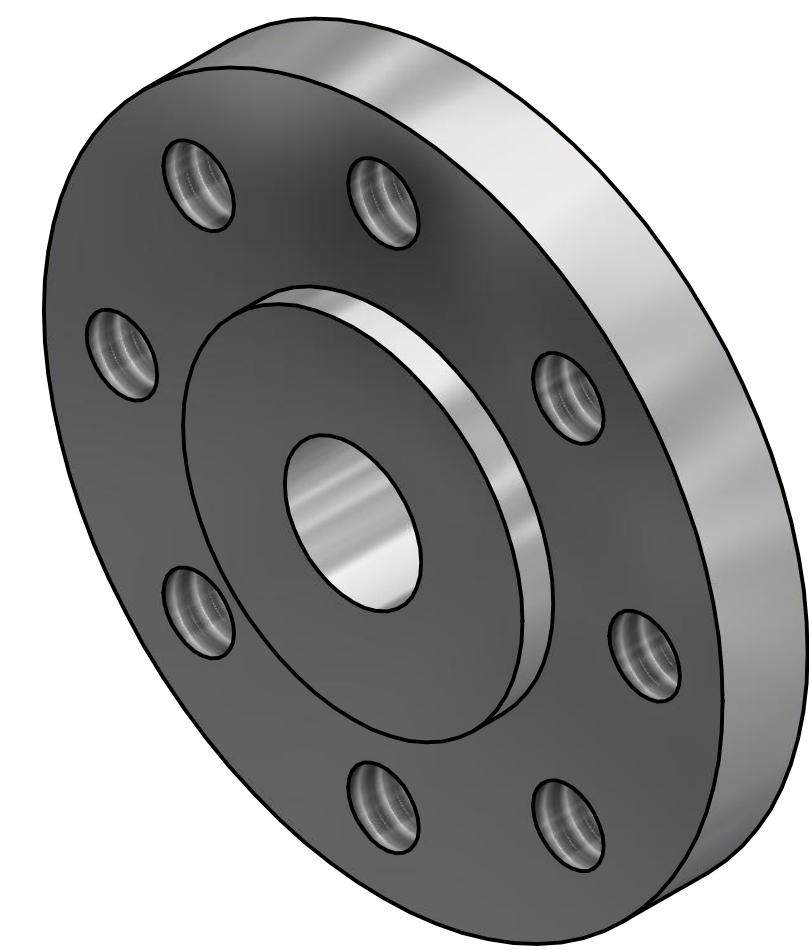
NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

SOURCE CONTROL DRAWING

ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATIONS
4	1	545364	SWIVEL HUB	
MATERIAL			DRAWN : D. DOAN 4/11/2013	
FINISH			CHECKED : J. MIAH 4/24/2013	
WEIGHT		0.022 LBS	D. DOAN 4/24/2013	
			MFG: M. DELORIO 4/24/2013	
			APPROVED: L. EYE 4/24/2013	
			TITLE: OTS, SWIVEL HUB	
			CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES	
			SIZE: DWG NO: D 03-2004	
			SCALE: 6:1 SUBSYSTEM: GAS/HAS/NRM	
			REV: -	

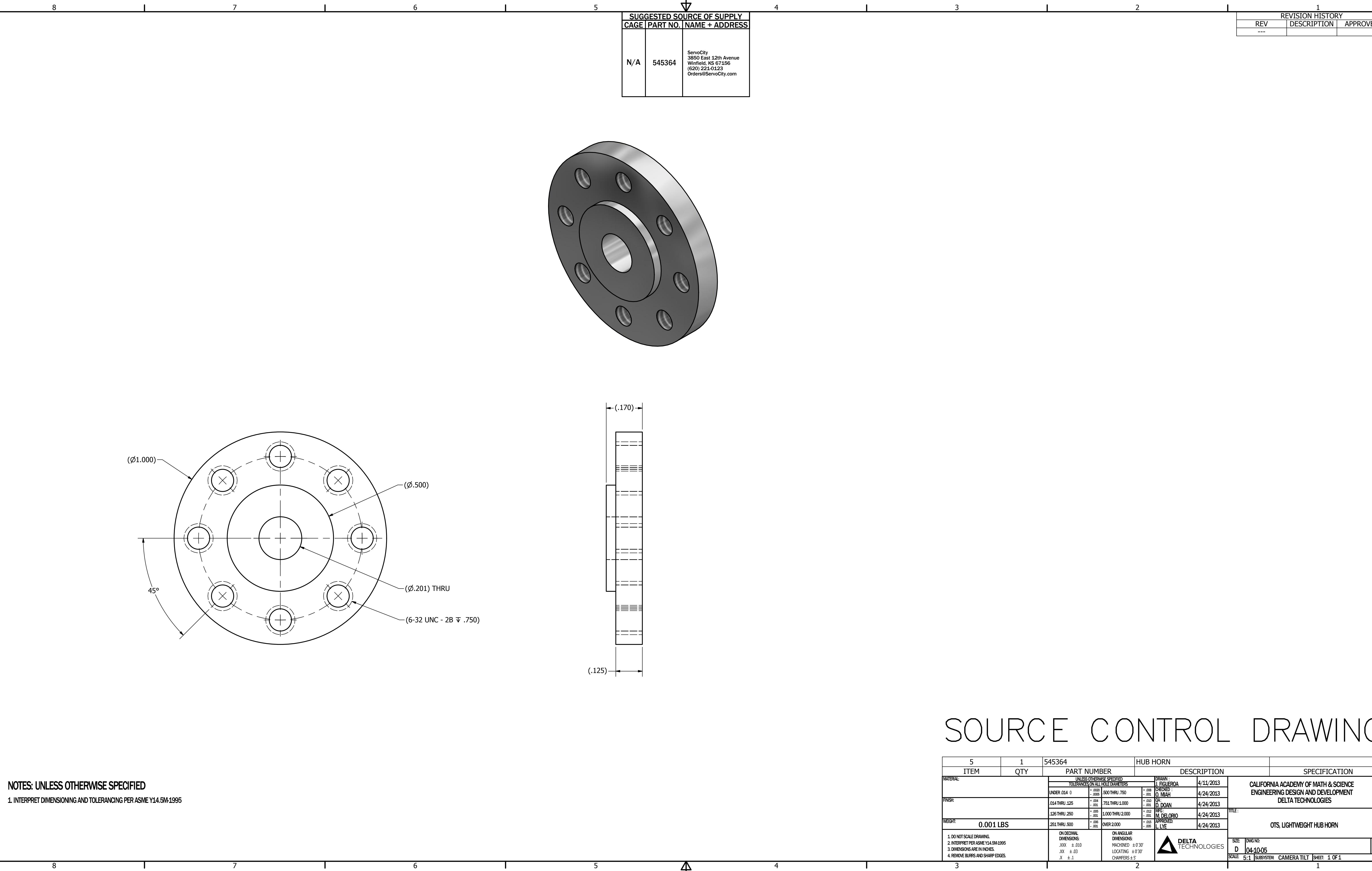
REVISION HISTORY		
REV	DESCRIPTION	APPROVED
-	-	-

SUGGESTED SOURCE OF SUPPLY		
CAGE	PART NO.	NAME + ADDRESS
N/A	545364	ServoCity 3850 East 12th Avenue Winfied, KS 67156 (620) 221-0123 Orders@Servocity.com



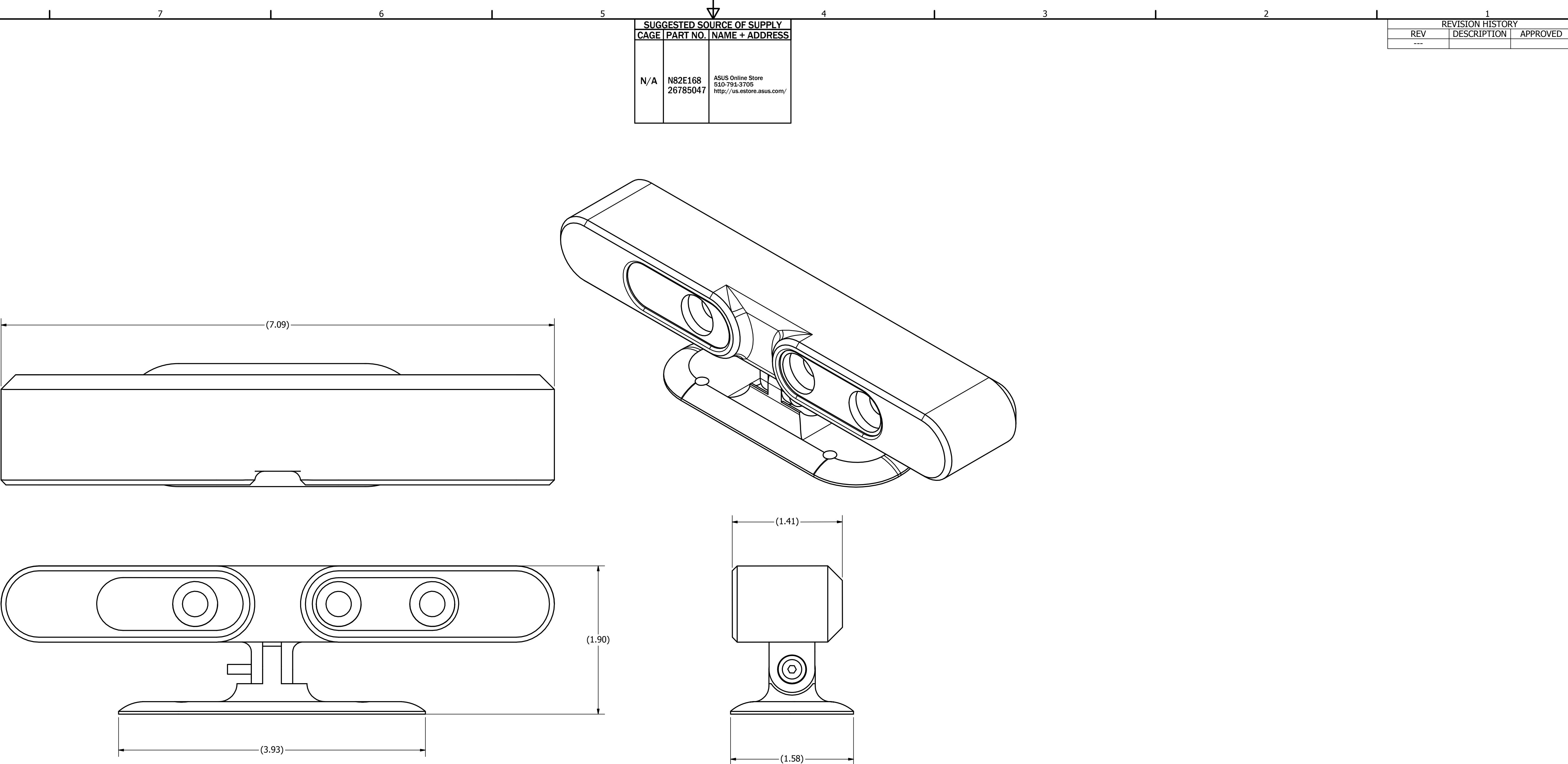
SOURCE CONTROL DRAWING

ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATION
5	1	545364	HUB HORN	
MATERIAL:			UNLESS OTHERWISE SPECIFIED	DRAWN : J. FIGUEROA 4/11/2013
			TOLERANCES ON ALL HOLE DIAMETERS	CHECKED : O. MIAH 4/24/2013
FINISH:			UNDER .014 .000 .005 500 THRU .750	DESIGNED : D. DOAN 4/24/2013
			.014 THRU .125 .001 .005 .750 THRU 1.000	MANUFACTURED : M. DELORIO 4/24/2013
WEIGHT:	0.001 LBS		.126 THRU .250 .006 .004 1.000 THRU 2.000	APPROVED : L. LYE 4/24/2013
			251 THRU 500 .006 .004 OVER 2.000	
NOTES: UNLESS OTHERWISE SPECIFIED			1. DO NOT SCALE DRAWING. 2. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DIMENSIONAL DIMENSIONS: XXX ± .010 XX ± .03 X ± .1
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995			ON ANGULAR DIMENSIONS: MACHINED ± .03° LOCATING ± .03° CHAMFERS ± .5°	ON ANGULAR DIMENSIONS: MACHINED ± .03° LOCATING ± .03° CHAMFERS ± .5°
				DELTA TECHNOLOGIES
				SIZE: DWG NO: D 04-1005 REV: -
				SCALE: 5:1 SUBSYSTEM: CAMERA TILT SHEET: 1 OF 1



REVISION HISTORY		
REV	DESCRIPTION	APPROVED
-	-	-

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



SOURCE CONTROL DRAWING

ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATION
MATERIAL:			UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN : J. FIGUEROA 4/11/2013
FINISH:			UNDER .014 0 +.008 -.005 500 THRU 750 +.008 -.005	CHECKED : O. MIAH 4/24/2013
WEIGHT:		0.379 LBS	.014 THRU .125 -.001 .750 THRU 1.000 +.008 -.005	DOOR: D. DOAN 4/24/2013
			.126 THRU .250 -.001 1.000 THRU 2.000 +.008 -.005	MPG: M. DELORIO 4/24/2013
			251 THRU 500 -.001 OVER 2.000 +.008 -.005	APPROVED: L. LYE 4/24/2013
NOTES: UNLESS OTHERWISE SPECIFIED 1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995			1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DIMENSIONAL DIMENSIONS: XXX ±.010 XX ±.03 X ±.1 ON ANGULAR DIMENSIONS: MACHINED ±.03° LOCATING ±.03° CHAMFERS ±.5°
				SIZE: DWG NO: D 04-1006 REV: - TITLE: OTS, ASUS XTION CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES DATE: 4/24/2013 SCALE: 3:2 SUBSYSTEM: CAMERA TILT SHEET: 1 OF 1

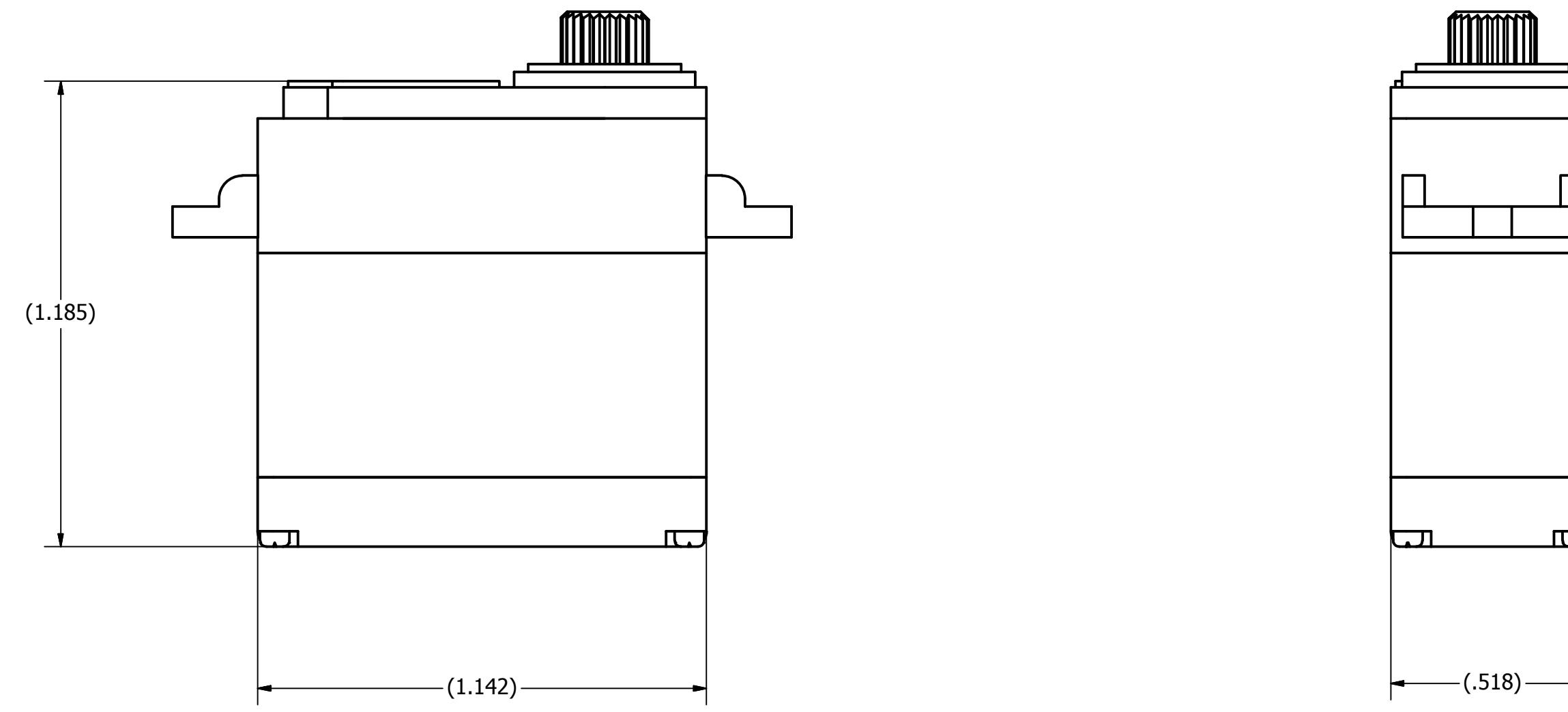
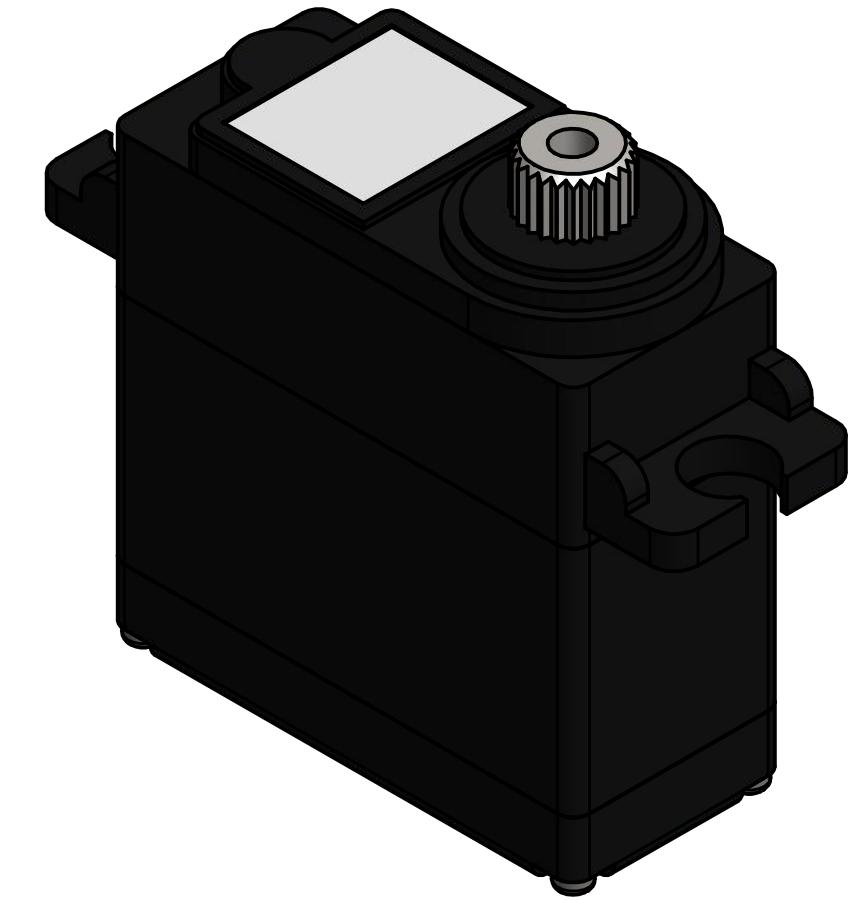
NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

SUGGESTED SOURCE OF SUPPLY		
CAGE	PART NO.	NAME + ADDRESS
N/A	HS85MG	<p>ServoCity 3850 East 12th Avenue Winfield, KS 67156 (620) 221-0123 Orders@ServoCity.com</p>

REVISION HISTORY		
REV	DESCRIPTION	APPROVED



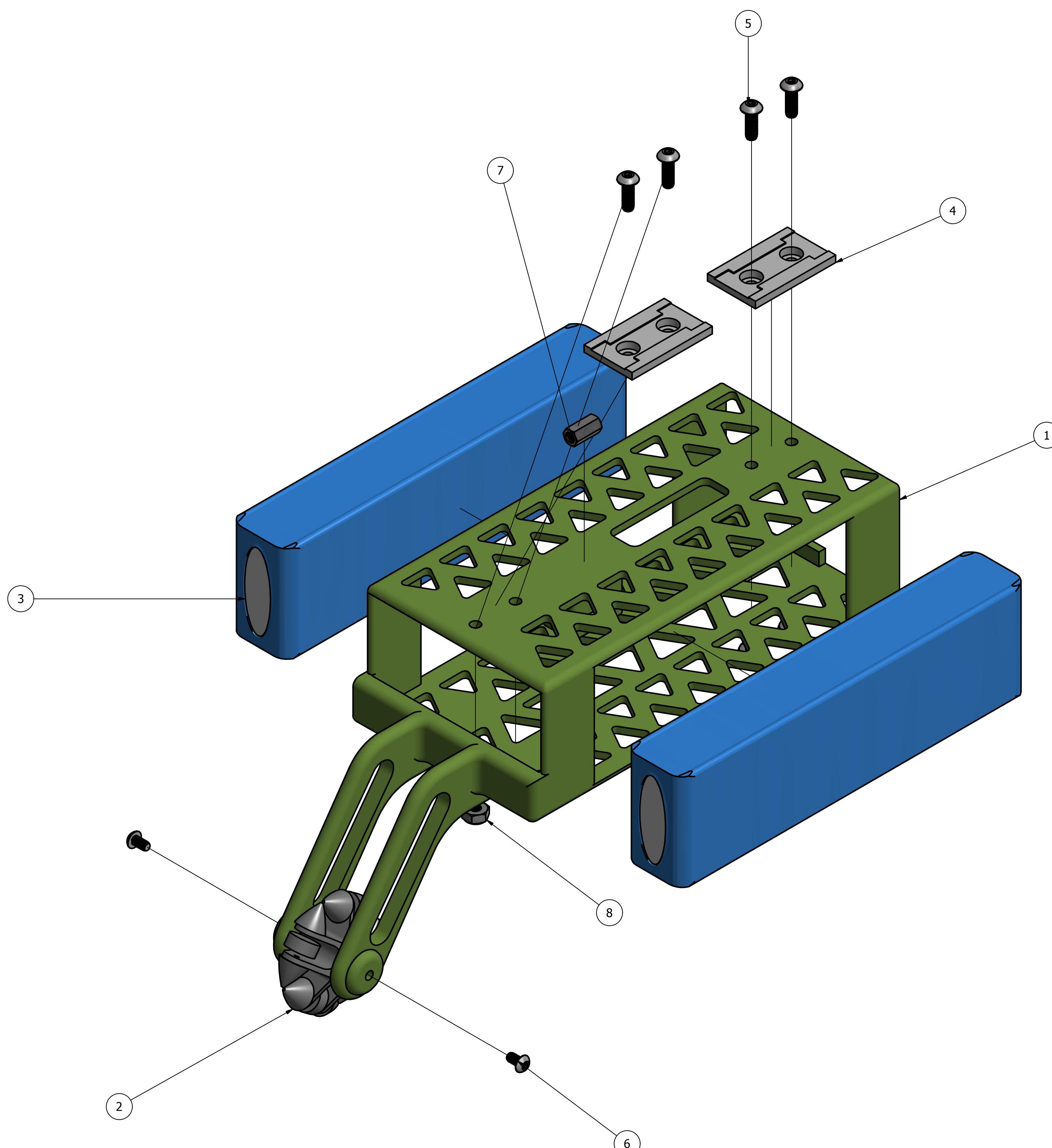
SOURCE CONTROL DRAWING

7	1	HS85MG	MIGHTY MICRO MOTOR				
ITEM	QTY	PART NUMBER		DESCRIPTION			SPECIFICATION
MATERIAL:	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS			DRAWN: J. FIGUEROA	4/11/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES	
	UNDER .014	.00020 .0005	.500 THRU .750	+.008 -.001	CHECKED: O. MIAH	4/24/2013	
FINISH:	.014 THRU .125	+.004 -.001	.751 THRU 1.000	+.010 -.001	QA: D. DOAN	4/24/2013	
	.126 THRU .250	+.005 -.001	1.000 THRU 2.000	+.012 -.001	MFG: M. DELORIO	4/24/2013	
WEIGHT:	0.026 LBS	.251 THRU .500	+.006 -.001	OVER 2.000	APPROVED: L. LY	4/24/2013	TITLE: OTS, MIGHTY MICRO MOTOR
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ± .010 XX ± .03 .X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°	 DELTA TECHNOLOGIES		SIZE: D DWG NO: 04-10-07	REV: -
				SCALE: 3:1 SUBSYSTEM: CAMERA TILT SHEET: 1 OF 1			

NOTES: UNLESS OTHERWISE SPECIFIED

1 INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994

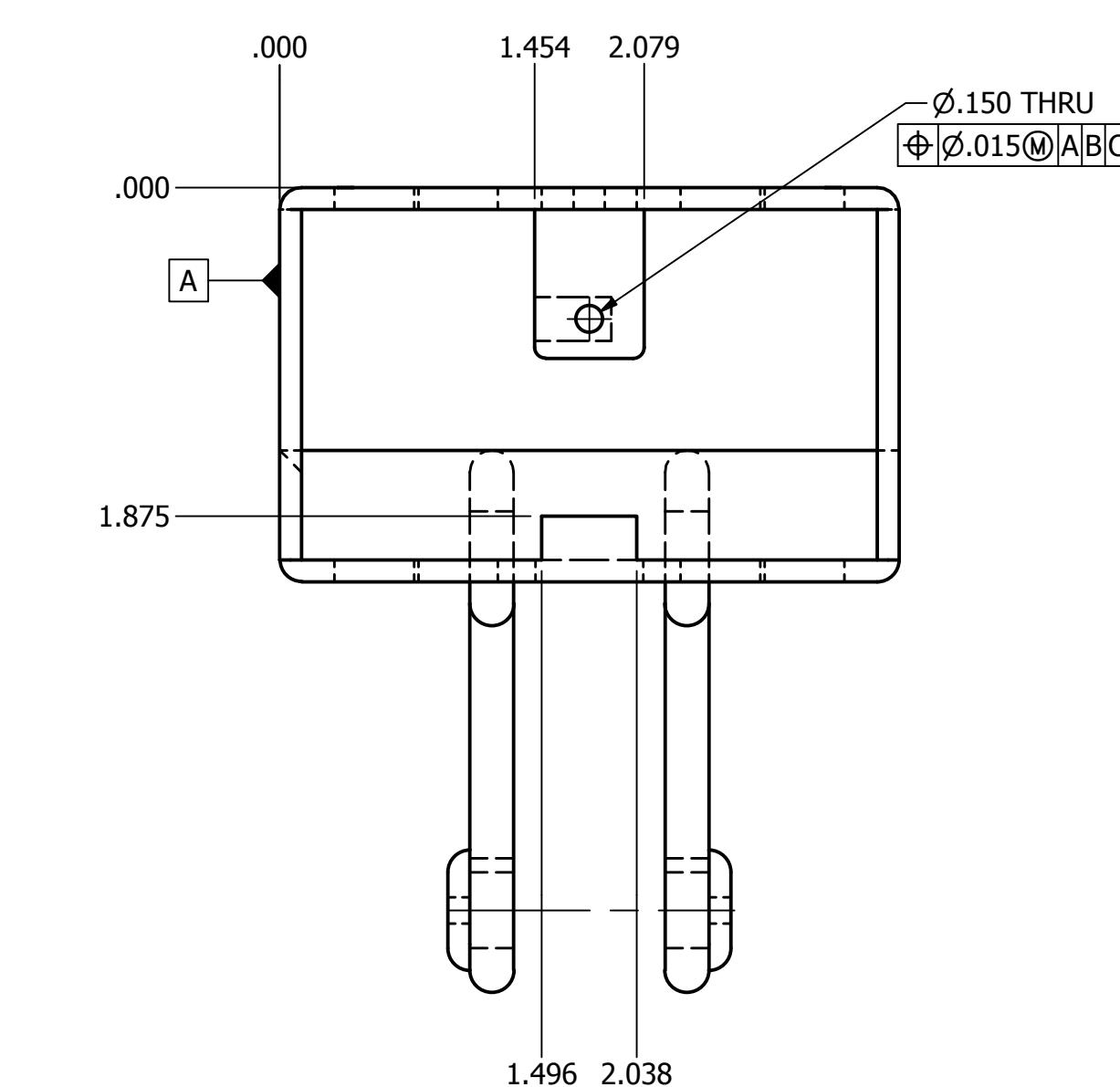
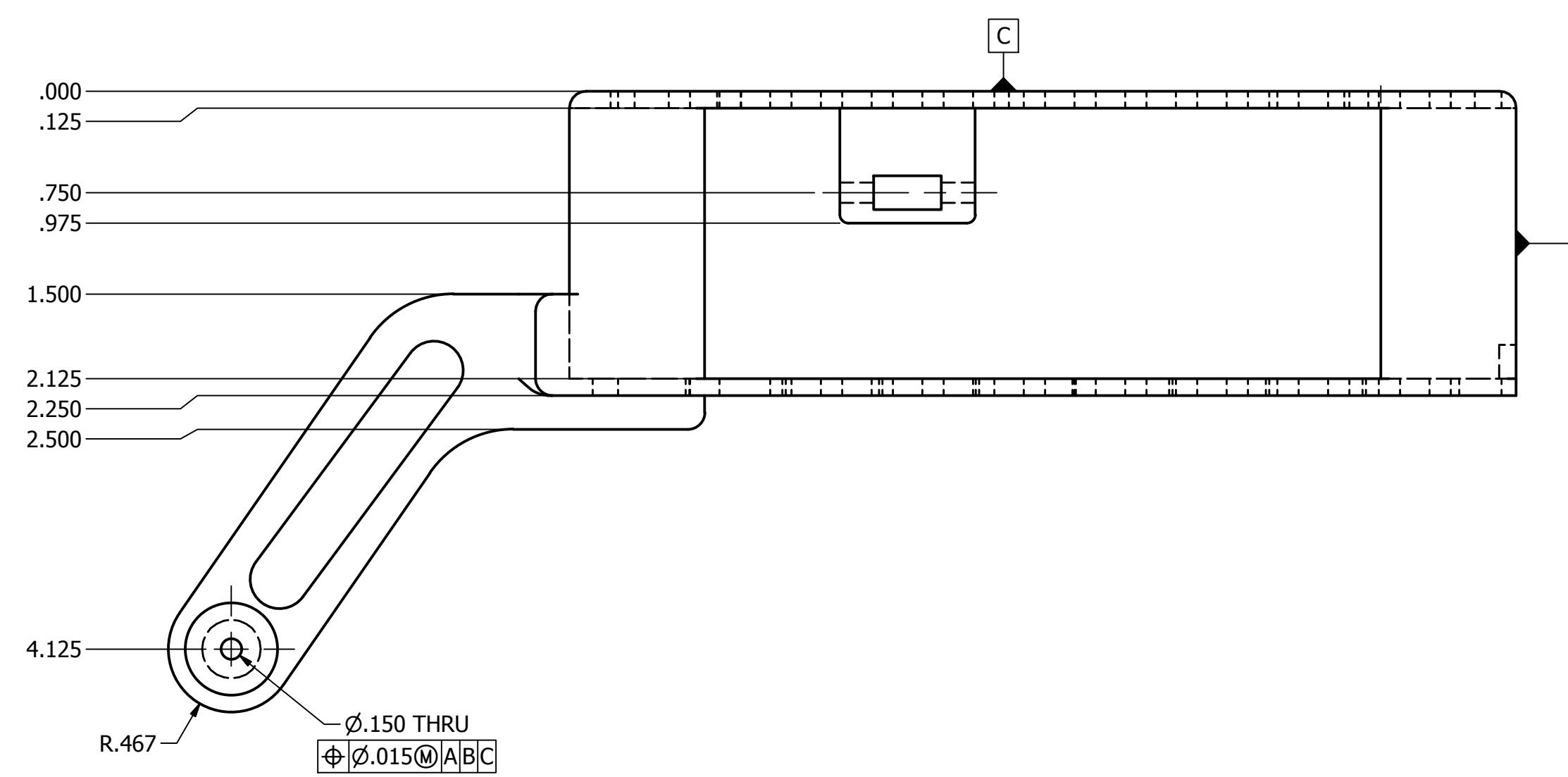
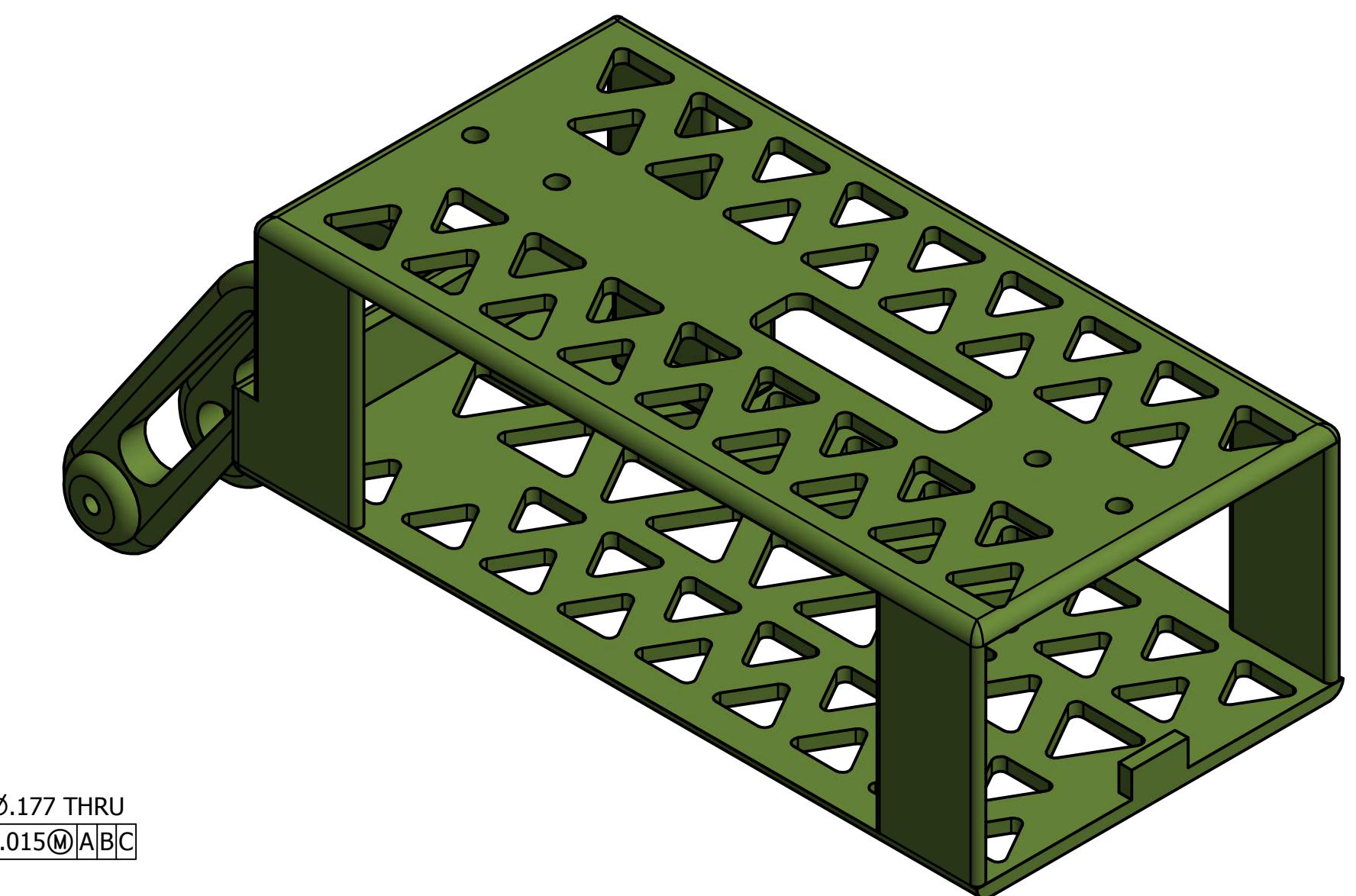
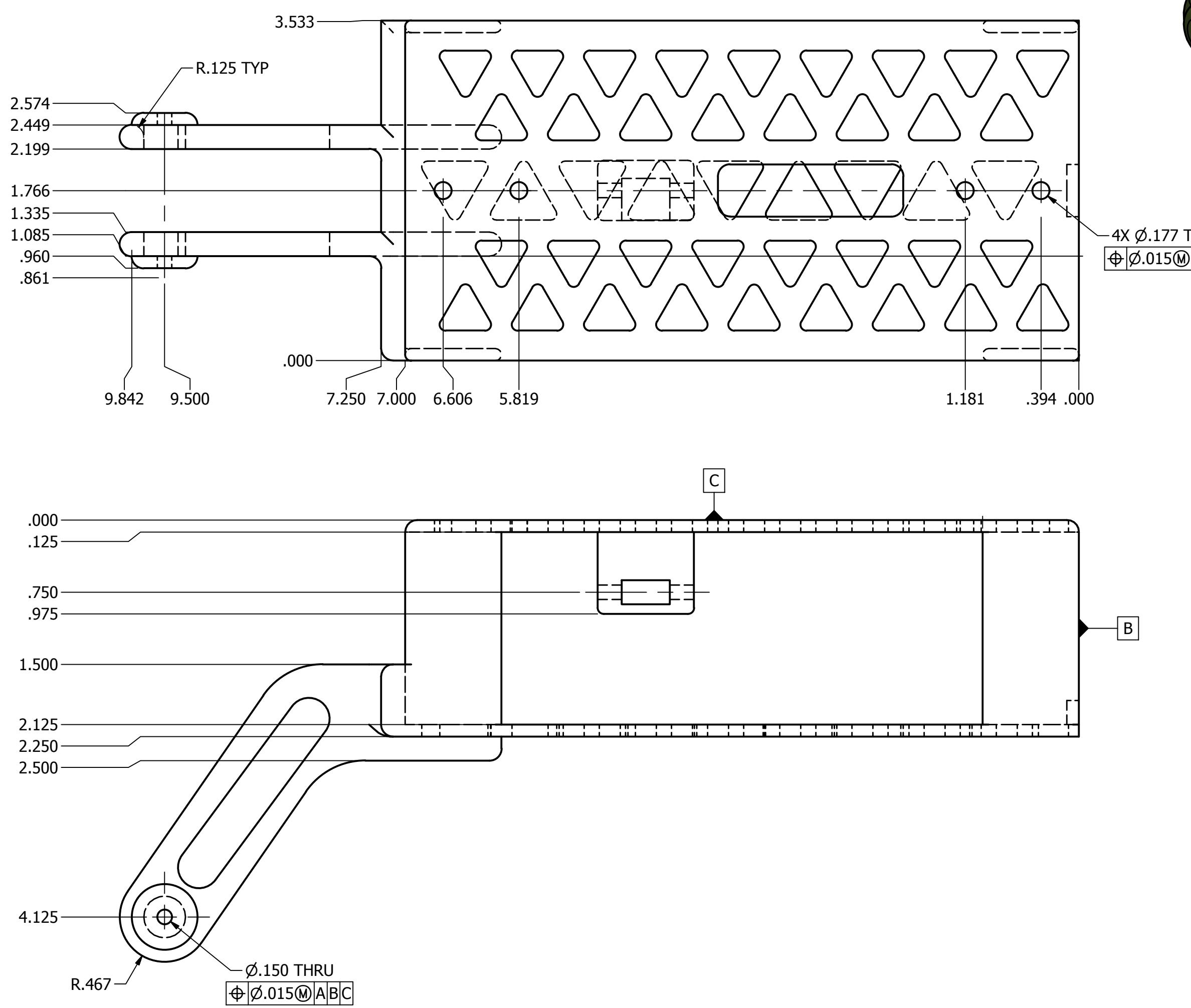
REVISION HISTORY		
REV	DESCRIPTION	APPROVED
-	-	-



NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM	QTY	PART NUMBER	DESCRIPTION	
			ITEM	
8	4	90101A009	OTS, 18-8 SS NYLON-INSERT THIN HEX LOCKNUT 8-32	THREAD SIZE, 11/32" WIDTH, 11/64" HEIGHT
7	1	91115A195	OTS, 18-8 SS FEMALE THREADED HEX STANDOFF 1/4"	HEX, 1/2" LENGTH, 8-32 SCREW SIZE
6	2	91255A144	OTS, ALLOY STEEL BUTTON HEAD SOCKET CAP SCREW	6-32 THREAD, 1/4" LENGTH
5	4	91255A194	OTS, ALLOY STEEL BUTTON HEAD SOCKET CAP SCREW	8-32 THREAD, 1/2" LENGTH
4	2	6723K11	OTS, LOW-PROFILE CARRIAGE	
3	2	N4500.4S.25	OTS, TURNIGY NANO-TECH LIPO PACK	
2	1	RB-DAG-18	OTS, DAGU OMNI WHEEL	
1	1	04-20-01	IPT, BATTERY MOVEMENT, BATTERY HOLDER	

PARTS LIST				
MATERIAL:	UNLESS OTHERWISE SPECIFIED	DRAWN:	4/11/2013	A
FINISH:	TOLERANCES ON ALL HOLE DIAMETERS UNDER .014 .000 .005 500 THRU .750 .014 THRU .125 .001 .005 .750 THRU 1.000 .126 THRU .250 .006 .004 1.000 THRU 2.000 .251 THRU .500 .006 .005 OVER 2.000	DRAWN: J. FIGUEROA CHECKED: O. MIAH D. DOAN M. DELORIO APPROVED: L. LYE	4/11/2013 4/24/2013 4/24/2013 4/24/2013 4/24/2013 4/24/2013	
WEIGHT:	2.074 LBS.	TITLE:	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES	
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DERNAL DIMENSIONS: XXX ±.010 XX ±.03 X ±.1	ON ANGULAR DIMENSIONS: MACHINED ±.030° LOCATING ±.030° CHAMFERS ±.5°	ASSY, BATTERY MOVEMENT	
			SIZE: DWG NO: D 4-20-00	REV: -
			SCALE: 1:1 SUBSYSTEM ACTUATION	SHEET: 1 OF 1

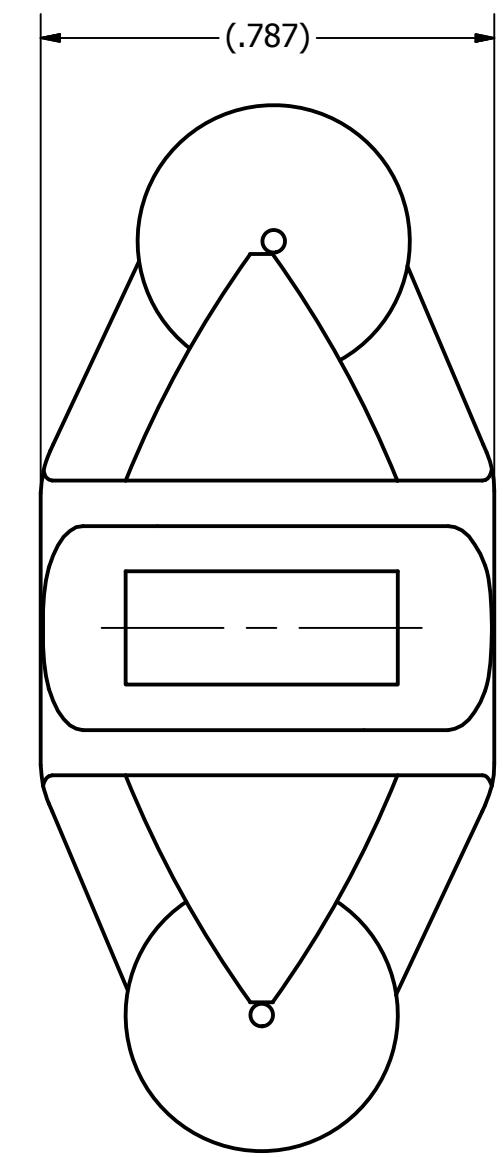
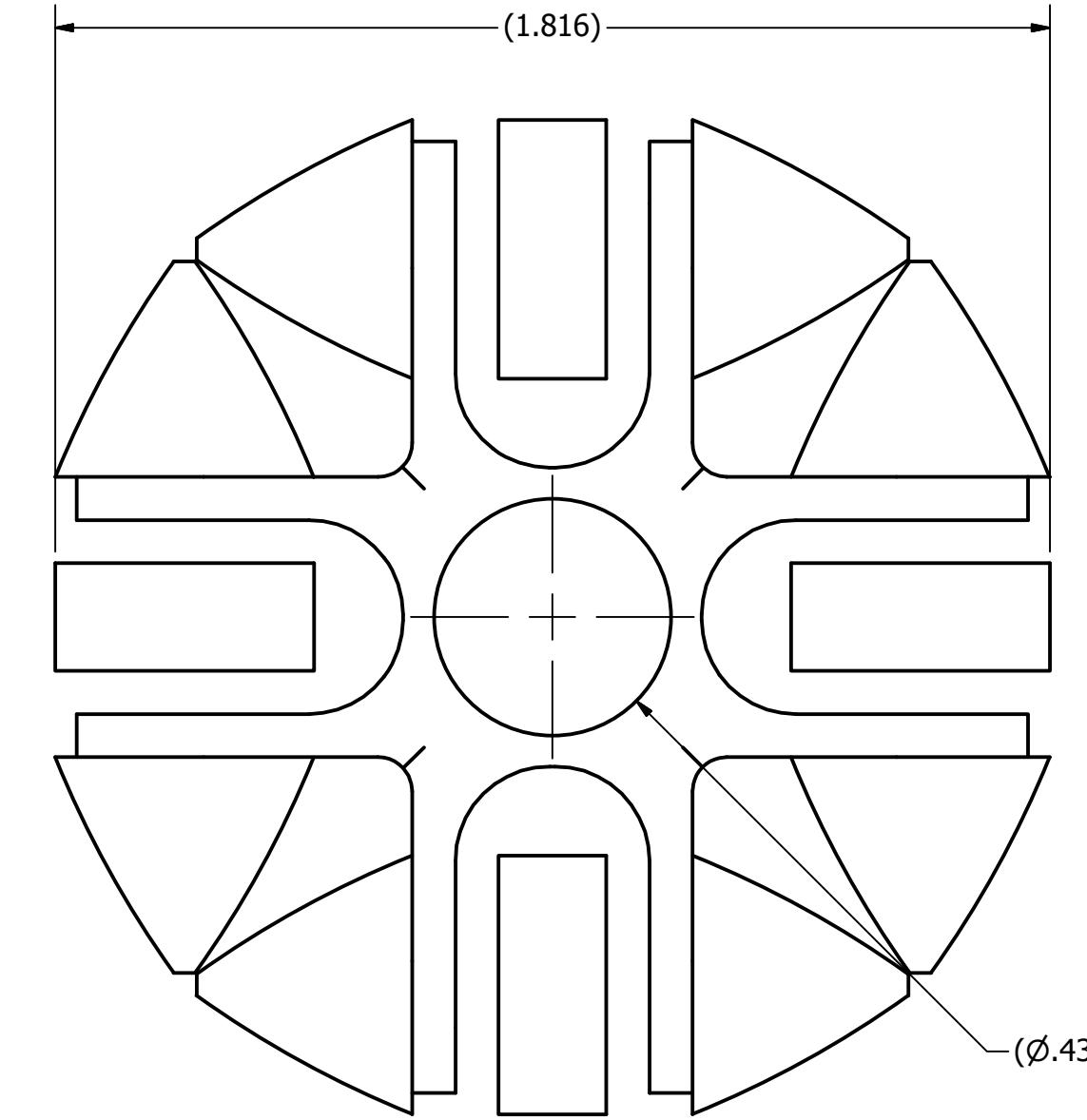
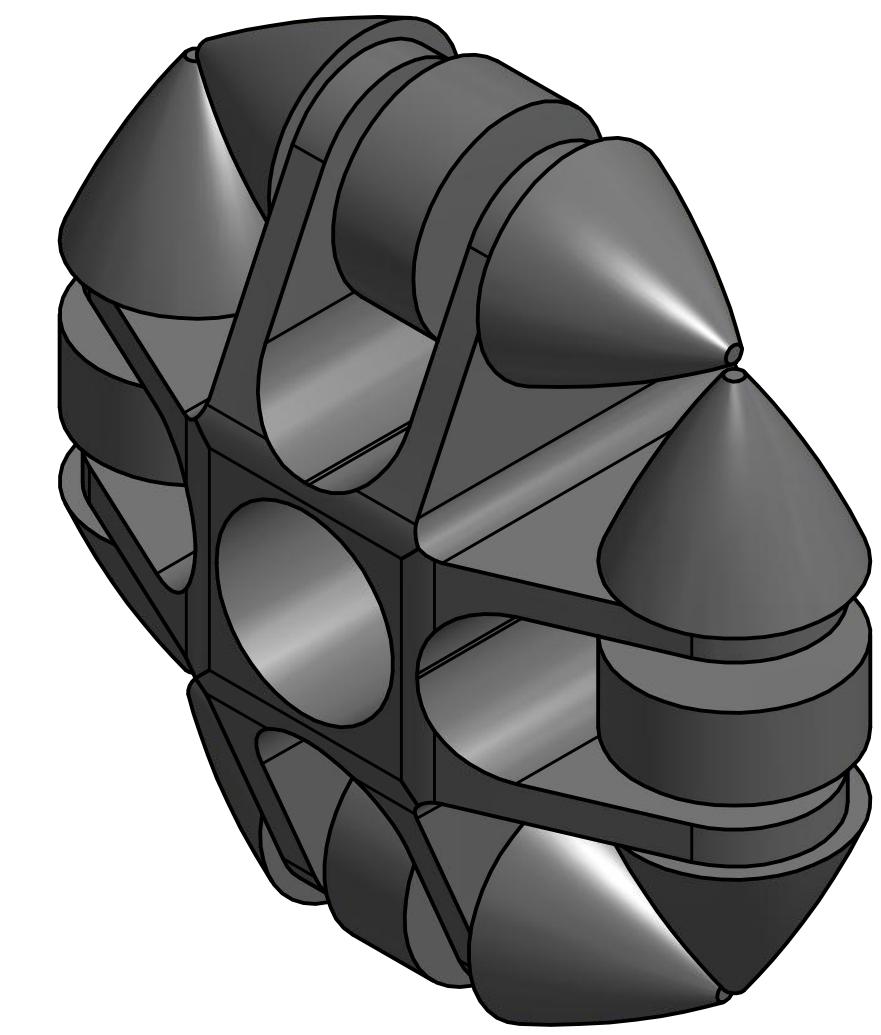


NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM	QTY	PART NUMBER	BATTERY HOLDER	DESCRIPTION	SPECIFICATION
MATERIAL:		ABS PLASTIC	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN: D. DOAN 4/24/2013 CHECKED: J. MIAH 4/24/2013	
FINISH:			UNDER Ø.014 0 +.000 -.000 Ø.014 THRU Ø.125 +.000 -.001 Ø.126 THRU Ø.250 +.006 -.001	Ø.125 THRU 1.000 +.001 -.001 1.000 THRU 2.000 +.022 -.002 OVER 2.000 +.055 -.005	MFG: M. DELORIO 4/24/2013 APPROVED: L. LYE 4/24/2013
WEIGHT:	.295 LBS.	251 THRU 500	1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DIMAL DIMENS. XXX ±.010 XX ±.03 X ±.1	ON ANGULAR DIMENS. MACHINED ±.030° LOCATING ±.030° CHAMFERS ±.5°
					DELTA TECHNOLOGIES
					SIZE: DWG NO: D 04-20-01 REV: - SCALE: 1:1 SUBSYSTEM ACTUATION SHEET 1 OF 1

REVISION HISTORY		
REV	DESCRIPTION	APPROVED
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SUGGESTED SOURCE OF SUPPLY		
CAGE	PART NO.	NAME + ADDRESS
N/A	RB-DAG-18	RoboShop Distribution Inc. 29005 Lapointe Building 305 Mirabel, Quebec, Canada J7J 0G2 (866) 627-3178

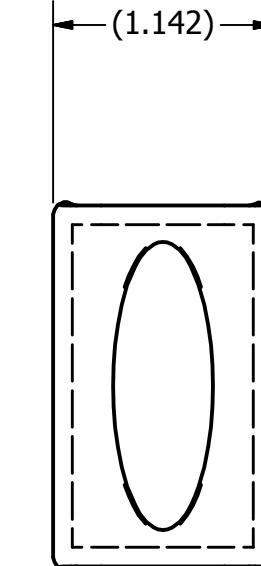
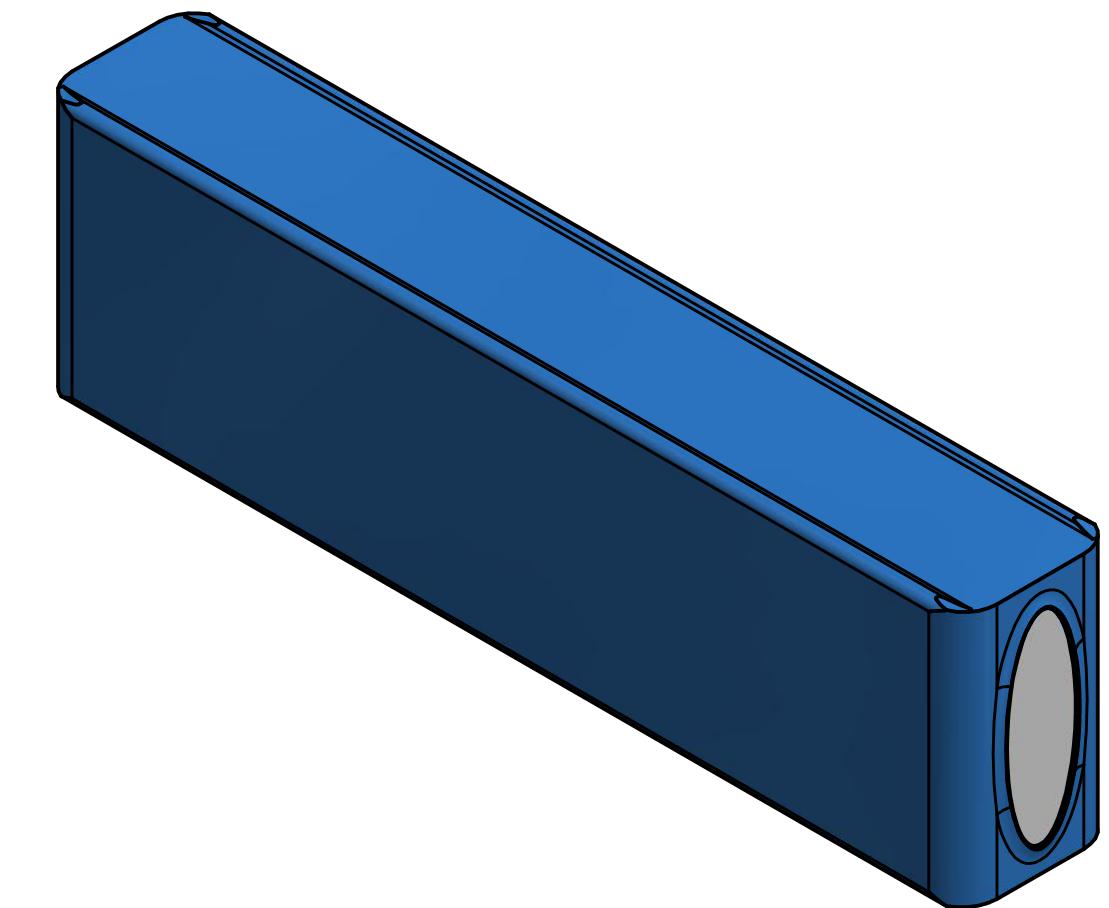
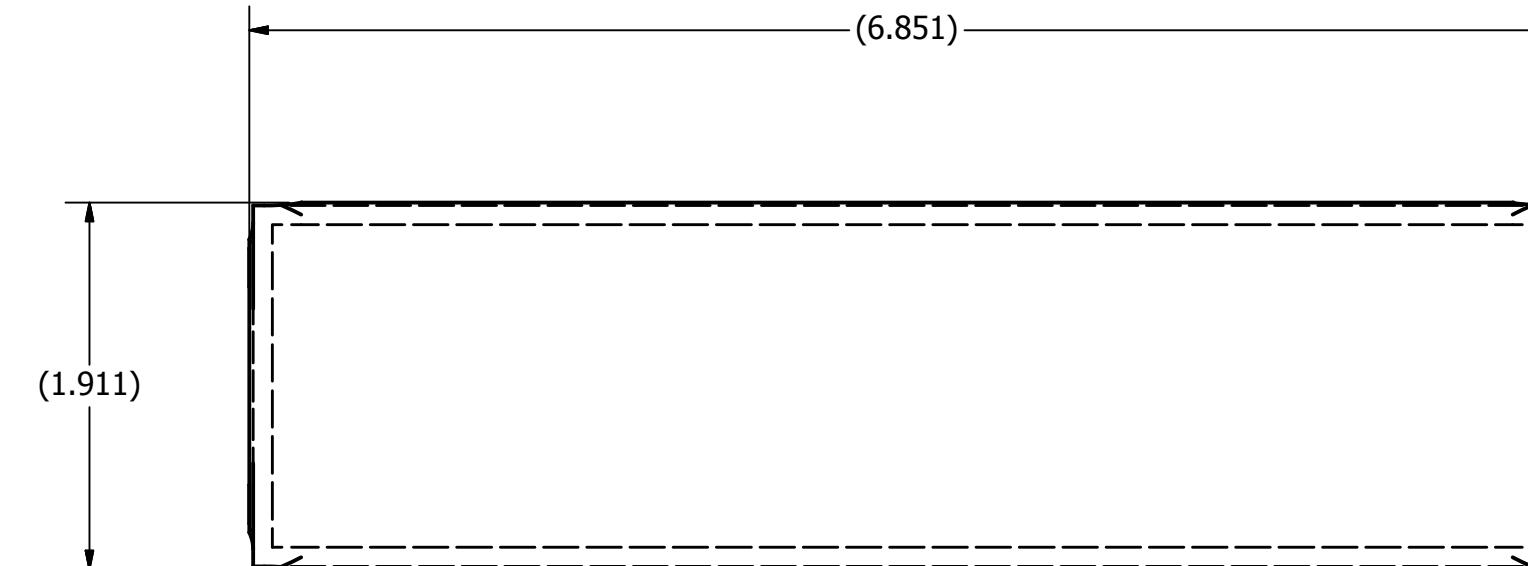


NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

SOURCE CONTROL DRAWING

PARTS LIST					
ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATION	
2	1	RB-DAG-18	OMNI WHEEL		
MATERIAL:			UNLESS OTHERWISE SPECIFIED	DRAWN:	4/24/2013
			TOLERANCES ON ALL HOLE DIAMETERS	CHECKED:	
FINISH:			UNDER .014 .000 .008	0. MIAH	4/24/2013
			.014 THRU .125 .001 .001	D. DOAN	4/24/2013
			.126 THRU .250 .006 .002	M. DELORIO	4/24/2013
WEIGHT:	0.123 LBS		1.000 THRU 2.000 .005 .005	APPROVED	L. LYE
			251 THRU 500 .006 .005 OVER 2.000 .005 .005		4/24/2013
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.			ON DIMAL DIMENSIONS: XXX ± .010 XX ± .03 X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± .03° LOCATING ± .03° CHAMFERS ± .5°	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES
					TITLE: OTS, DAGU OMNI WHEEL
					SIZE: DWG NO: D 04-2002
					SCALE: 3:1 SUBSYSTEM ACTUATION SHEET 1 OF 1
					REV: -

NOTES: UNLESS OTHERWISE SPECIFIED
 1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

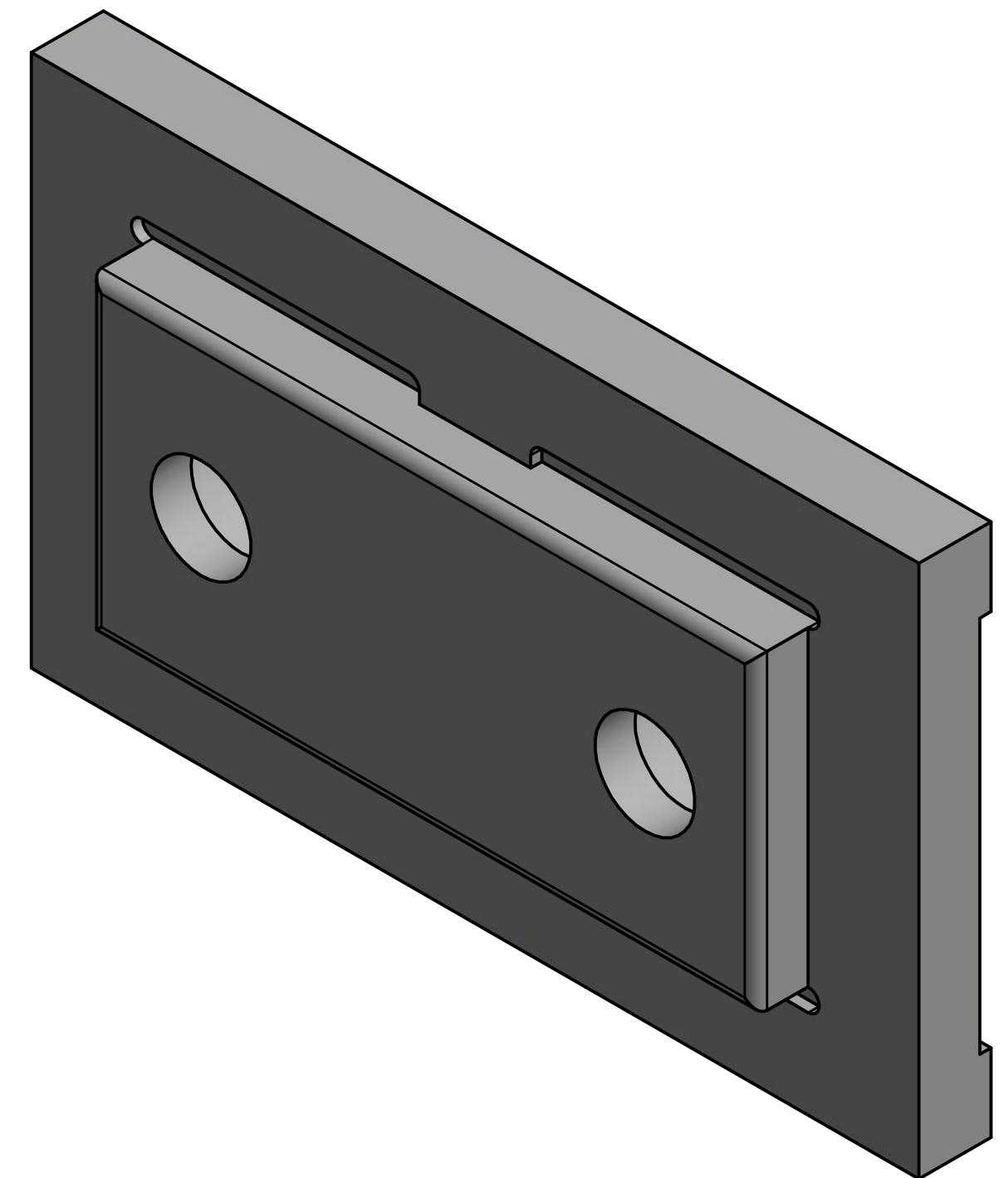
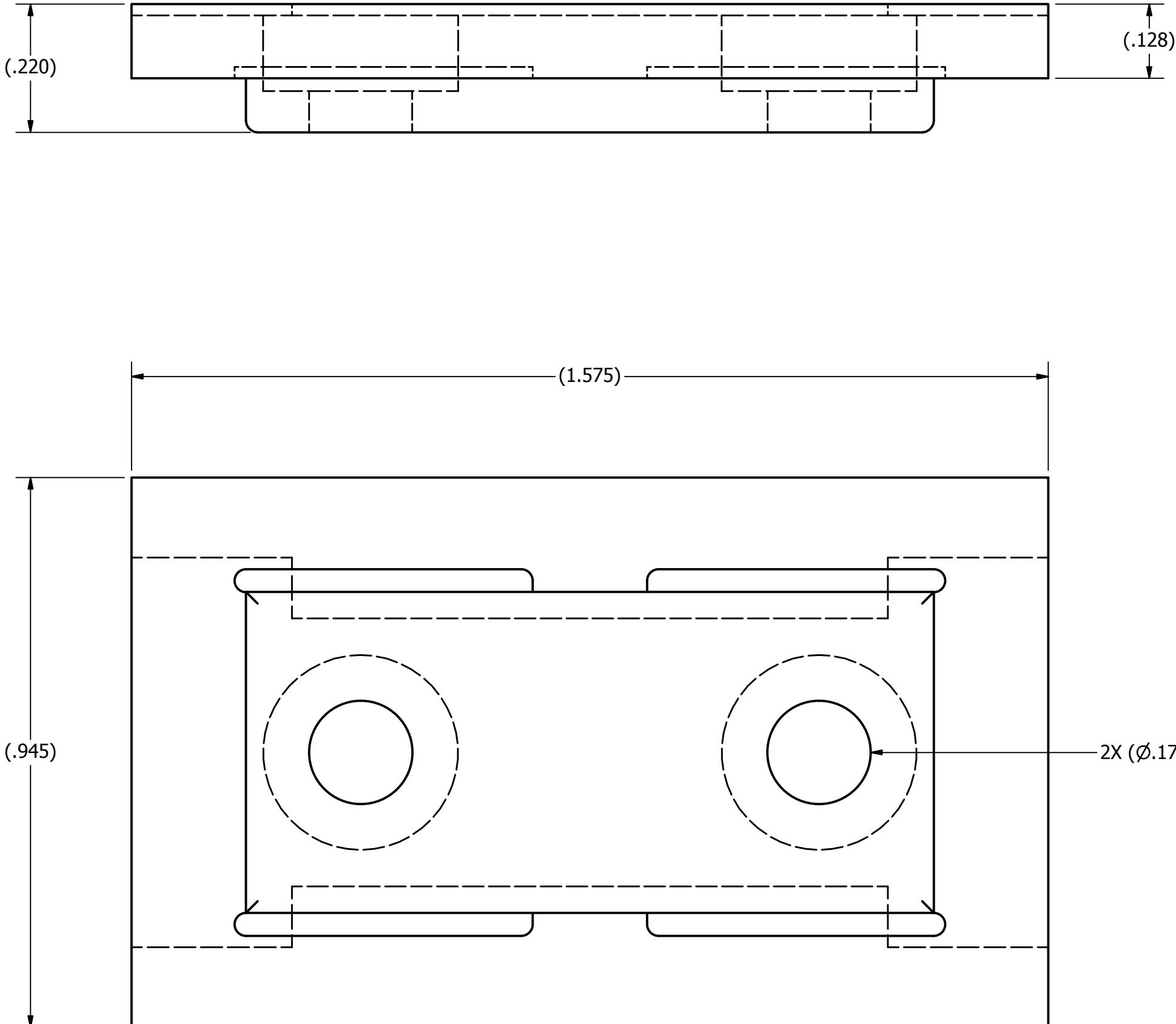


SUGGESTED SOURCE OF SUPPLY		
CAGE	PART NO.	NAME + ADDRESS
N/A	N4500.4S.25	HOBBY KING YUHEN WU RM 16-17, F/16, GOLD FIELD IND. CTR. 1 SUI WO RD. FOTAN HONG KONG INVENTORS@HEXTRONIK.COM

REVISION HISTORY		
REV	DESCRIPTION	APPROVED
-	-	-

SOURCE CONTROL DRAWING

ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATION
3	2	N4500.4S.25	TURNIGY NANO-TECH LIPO PACK	
MATERIAL			DRAWN : J. FIGUEROA 4/11/2013	
FINISH			CHECKED : O. MIAH 4/25/2013	
WEIGHT:	1.03 LBS.	251 THRU 500	DOOR: M. DELORIO 4/25/2013	
		OVER 2000	APPROVED: L. LYE 4/25/2013	
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DIMENSION: XXX ± .010 XX ± .03 X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± .03° LOCATING ± .03° CHAMFERS ± .5°	SIZE: DWG NO: D 04-20-03 REV: - TITLE: OTS, TURNIGY NANO-TECH LIPO PACK CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES DATE: 04-20-03 SCALE: 1:1 SUBSYSTEM ACTUATION SHEET 1 OF 1



8	7	6	5	4	3	2	1
D							D
SUGGESTED SOURCE OF SUPPLY							
CAGE PART NO. NAME + ADDRESS							
N/A	6723K11	McMaster-Carr 9630 Norwalk Blvd. Santa Fe Springs, CA 90670 (562) 692-5911 la.sales@mcmaster.com					
REVISION HISTORY							
	REV	DESCRIPTION	APPROVED				

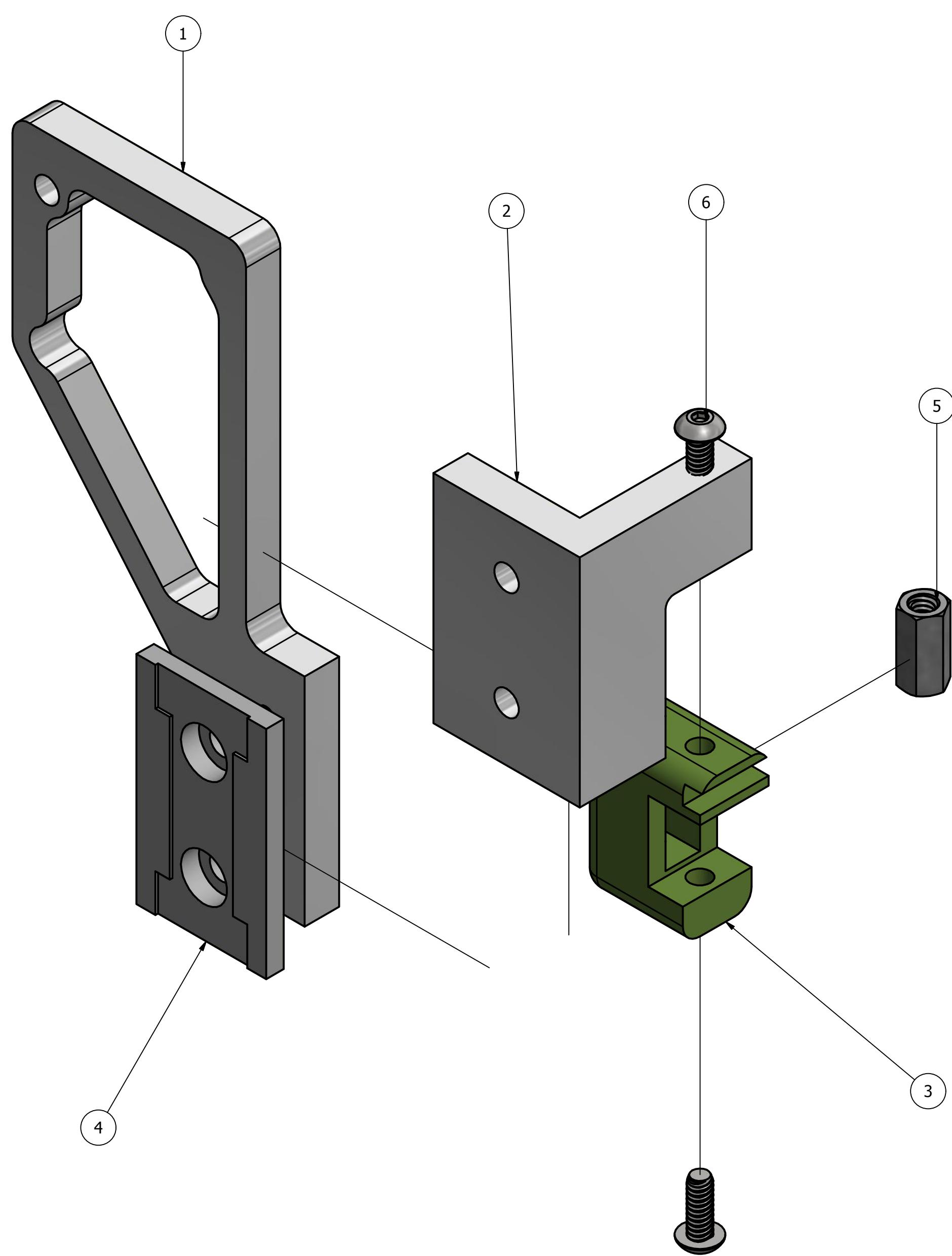
SOURCE CONTROL DRAWING

4	2	6723K11	CARRIAGE	SPECIFICATION
ITEM	QTY	PART NUMBER	DESCRIPTION	
MATERIAL:		UNLESS OTHERWISE SPECIFIED	DRAWN : J. FIGUEROA	4/11/2013
		TOLERANCES ON ALL HOLE DIAMETERS	CHECKED : O. MIAH	4/24/2013
FINISH:		UNDER .014 .0	- .008 .005 500 THRU .750	
		.014 THRU .125	- .001 .001 750 THRU 1.000	
		.126 THRU .250	+ .006 -.004 1.000 THRU 2.000	
WEIGHT:	0.007 LBS.	251 THRU 500	+ .005 -.005 OVER 2.000	
1. DO NOT SCALE DRAWING. 2. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DIMAL DIMENSIONS: XXX ± .010 XX ± .03 X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± .03° LOCATING ± .03° CHAMFERS ± .5°	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES
				TITLE: OTS, SHROUD ACTUATION, LOW-PROFILE CARRIAGE
				SIZE: DWG NO: D 04-5004 REV: -
				SCALE: 5:1 SUBSYSTEM ACTUATION SHEET 1 OF 1

NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

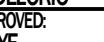
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994

6	2	91255A146	OTS, ALLOY STEEL BUTTON HEAD SOCKET CAP SCREW 6-32 THREAD, 3/8" LENGTH
5	1	91115A195	OTS, 18-8 SS FEMALE THREADED HEX STANDOFF 1/4" HEX, 1/2" LENGTH, 8-32 SCREW SIZE
4	1	6723K11	OTS, LOW-PROFILE CARRIAGE
3	1	04-30-03	IPT, SHROUD ACTUATION, LEADSCREW INSERT
2	1	04-30-02	IPT, SHROUD ACTUATION, SLIDER PLATE A

PARTS LIST							
MATERIAL:	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS			DRAWN : D. DOAN	4/11/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES	
	UNDER .014 0	+.0020 -.0005	.500 THRU .750	+.008 -.001	CHECKED : O. MIAH	4/24/2013	
	.014 THRU .125	+.004 -.001	.751 THRU 1.000	+.010 -.001	QA : D. DOAN	4/24/2013	
FINISH:	.126 THRU .250	+.005 -.001	1.000 THRU 2.000	+.012 -.001	MFG : M. DELORIO	4/24/2013	TITLE : ASSY, SHROUD ACTUATION, SHROUD ACTUATION A
	.251 THRU .500	+.006 -.001	OVER 2.000	+.015 -.005	APPROVED : L. LYK	4/24/2013	
WEIGHT: .154 LBS.							
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5'	 DELTA TECHNOLOGIES	SIZE: D DWG NO: 04-30-00 REV: -			
			SCALE: 2:1	SUBSYSTEM: SHROUD ACTUATION	SHEET: 1 OF 1		

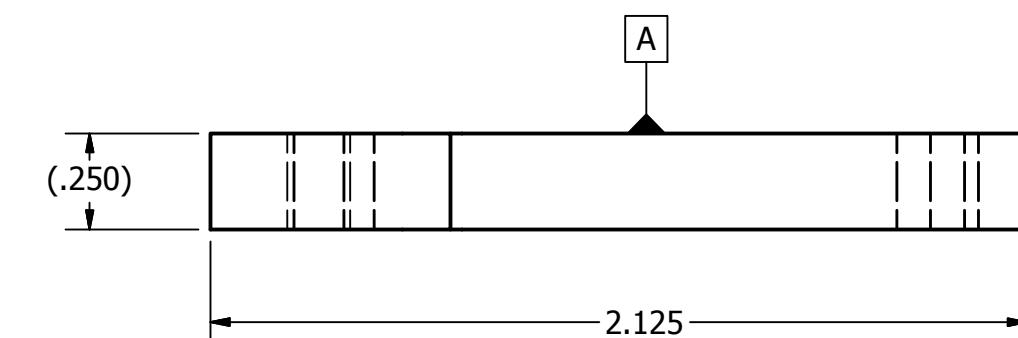
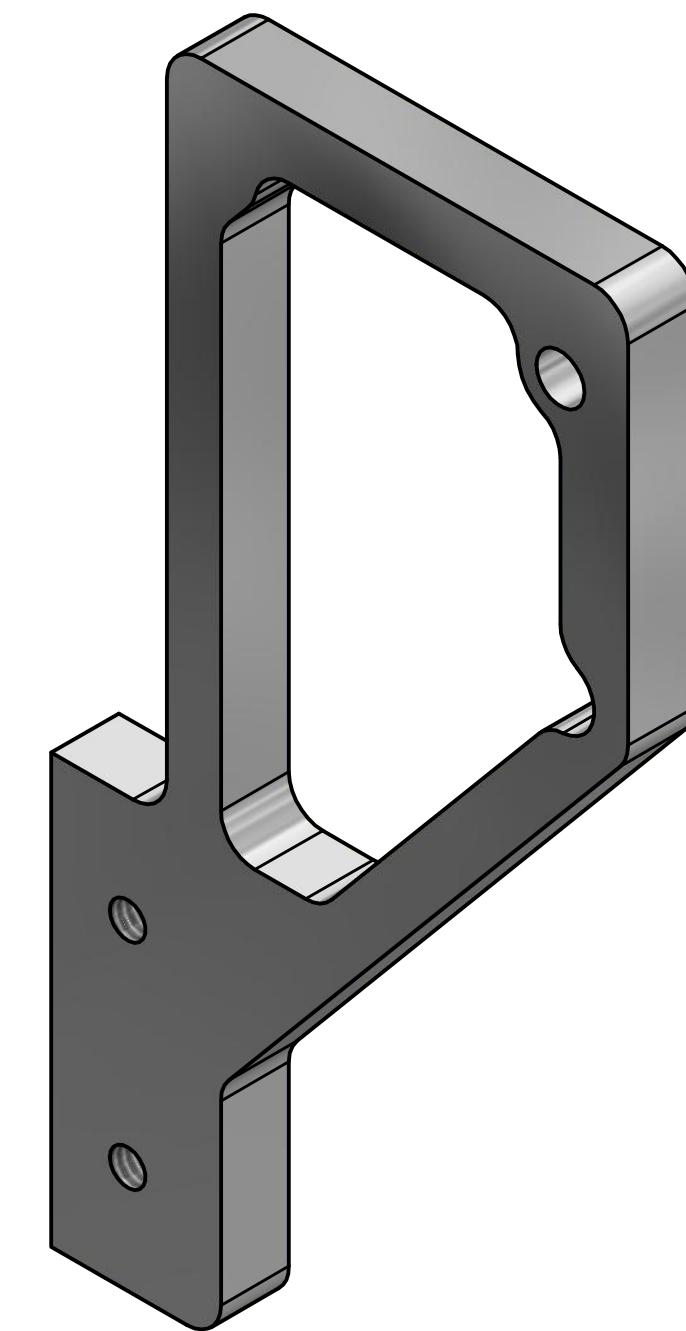
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

REVISION HISTORY								
8	7	6	5	4	3	2	1	

REVISION HISTORY		
REV	DESCRIPTION	APPROVED

This technical drawing shows a cross-sectional view of a mechanical part. The overall width is 1.875. A vertical dimension of 3.825 is shown on the right side. The part features a central U-shaped cutout with a height of 3.700. A horizontal dimension of .426 is indicated from the left edge to a feature labeled 'C'. Feature 'C' has a tolerance of ±.015 and includes a datum reference AB. A top hole has a diameter of Ø.177 THRU and a tolerance of ±.015 M ABC. A bottom hole has a diameter of Ø.177 THRU and a tolerance of ±.015 M ABC. A shoulder angle of 140° is shown at the bottom. A horizontal dimension of .281 is indicated from the bottom edge to a feature labeled 'B'. Feature 'B' has a tolerance of ±.015 A.



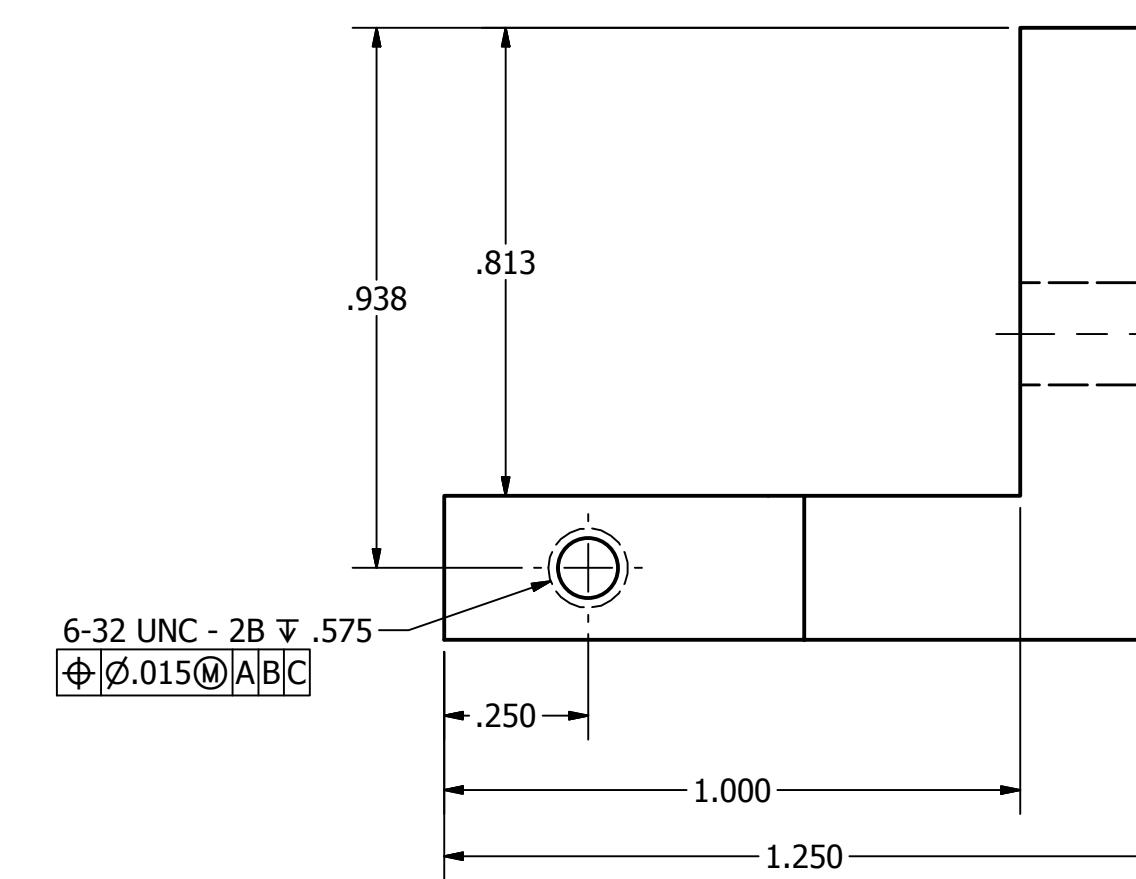
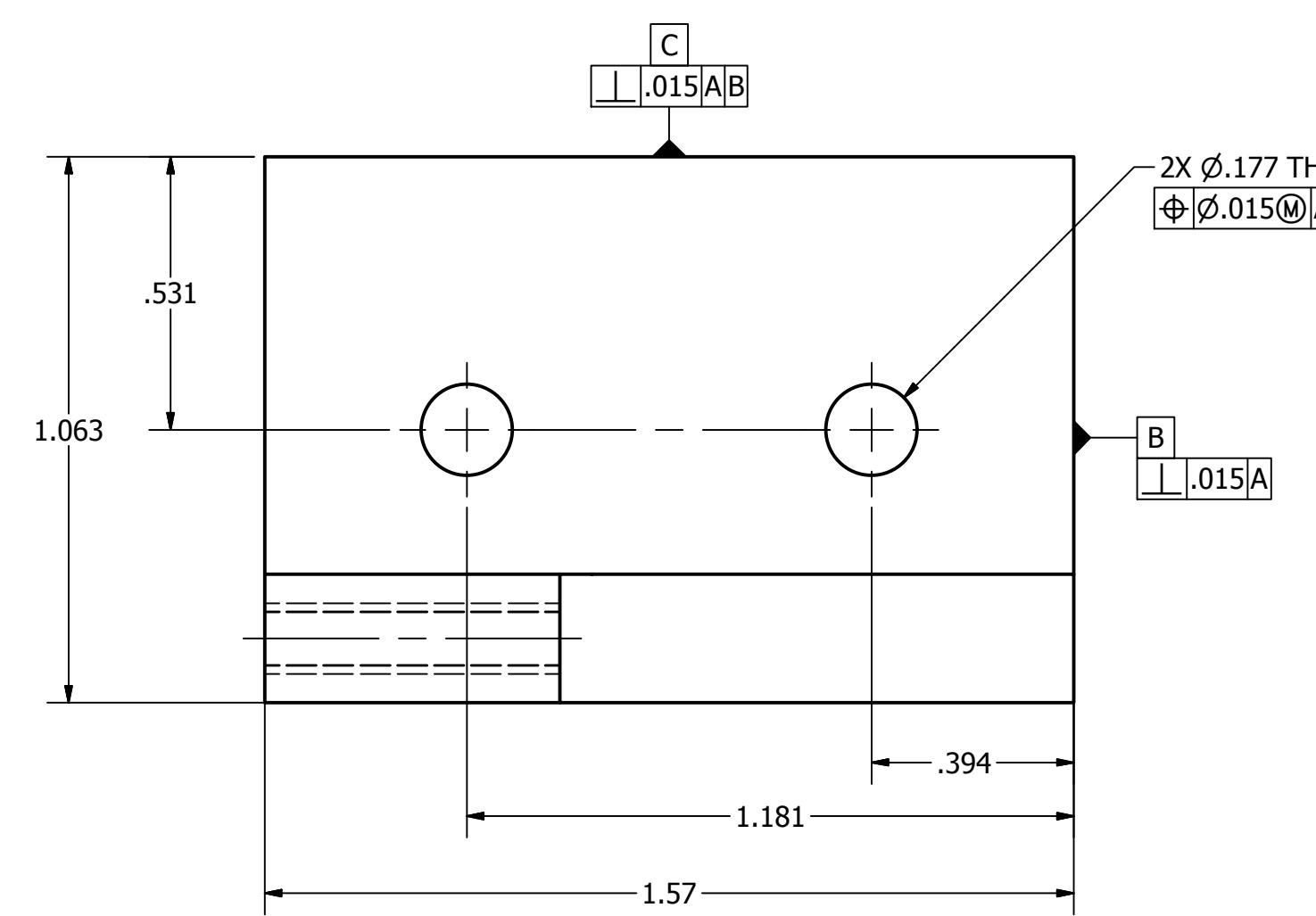
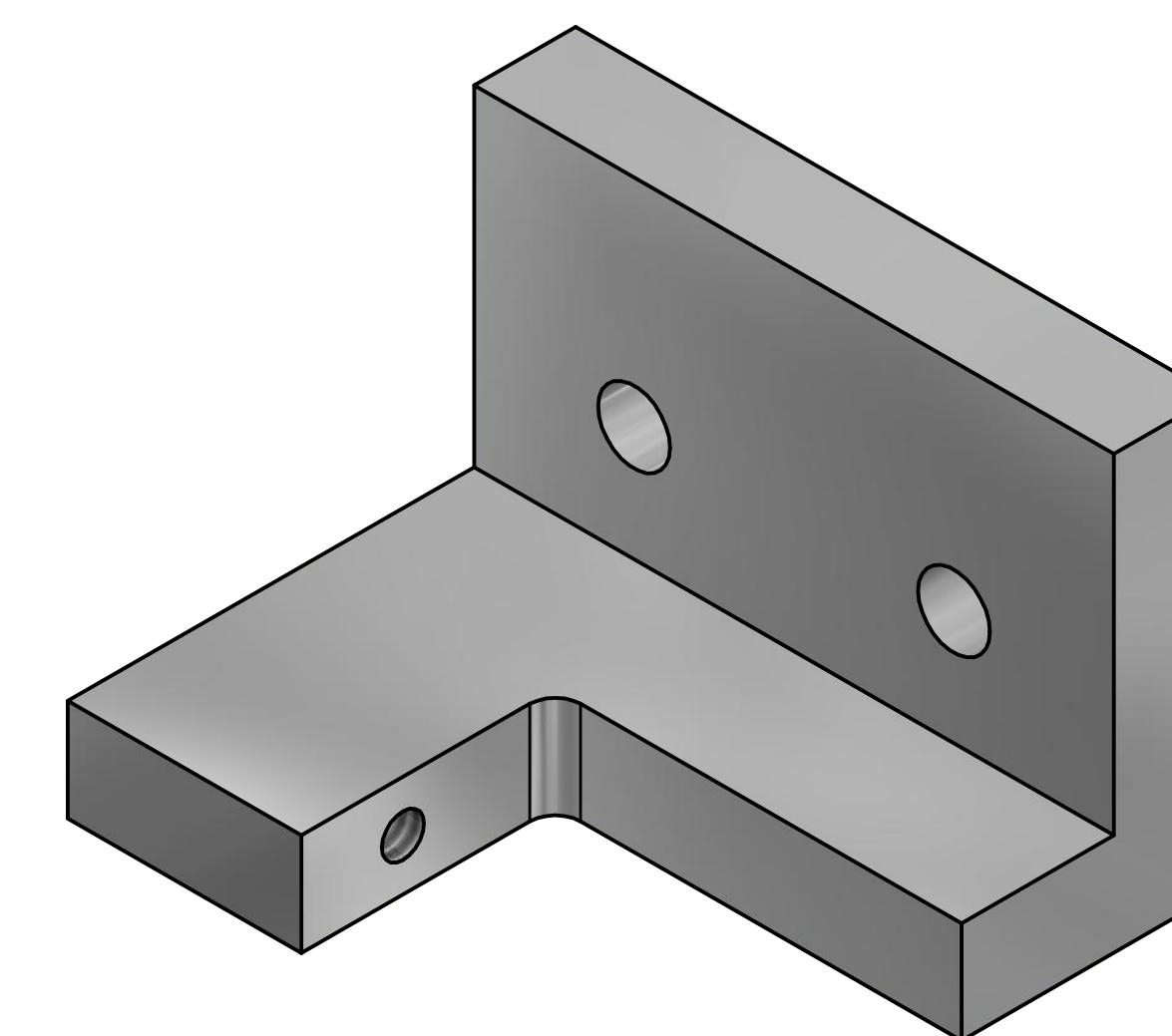
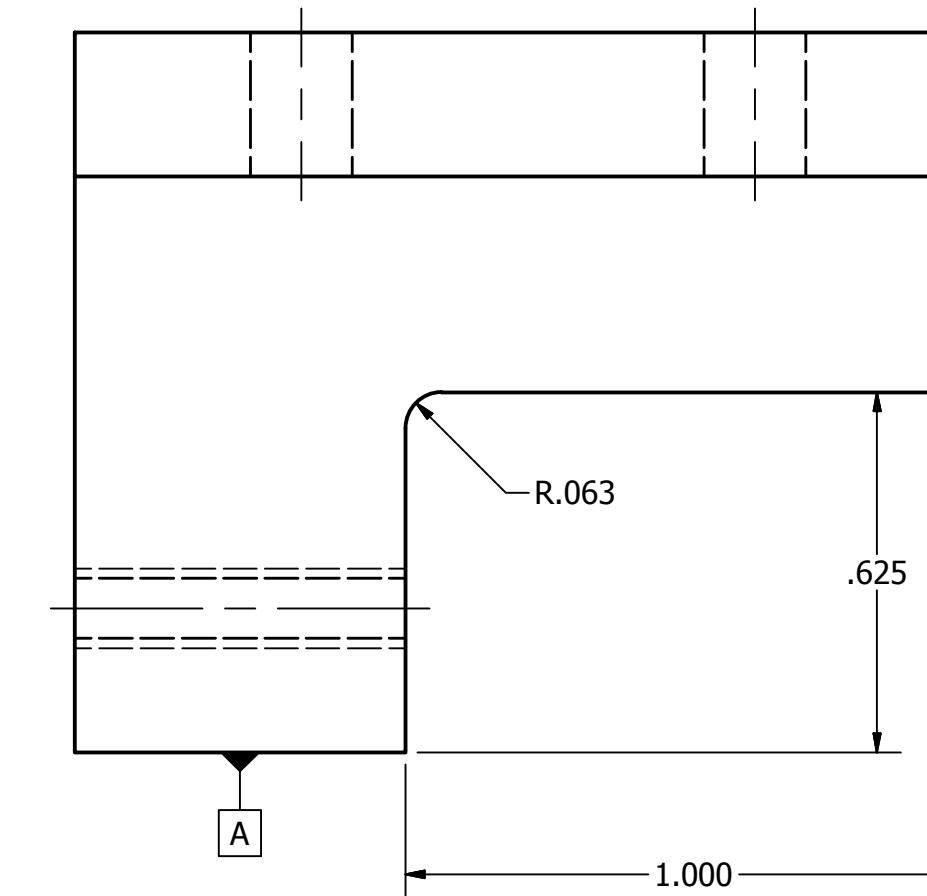
NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995
2. ALL POCKETS ARE THRU

1	1	04-30-01			SLIDER MOUNT				
ITEM	QTY	PART NUMBER			DESCRIPTION			SPECIFICATION	
MATERIAL: ALUMINUM 6061		UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS				DRAWN BY: D. DOAN	4/11/2013	CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES	
		UNDER .014	0	+.0020 -.0005	.500 THRU .750	+.008 -.001	CHECKED BY: O. MIAH		
NISH:		.014 THRU .125	+.004 -.001	.751 THRU 1.000	+.010 -.001	QA BY: D. DOAN	4/24/2013	TITLE: IPT, SHROUD ACTUATION, SLIDER MOUNT	
		.126 THRU .250	+.005 -.001	1.000 THRU 2.000	+.012 -.001	MFG BY: M. DELORIO	4/24/2013		
EIGHT: .064 LBS.		.251 THRU .500	+.006 -.001	OVER 2.000	+.015 -.005	APPROVED BY: L. LYKE	4/24/2013		
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5'	 DELTA TECHNOLOGIES		SIZE: D	DWG NO: 04-30-01	REV: -	
						SCALE: 2:1	SUBSYSTEM: SHROUD ACTUATION	SHEET: 1 OF 1	

8 7 6 5 4 3 2 1
 D D
 REV DESCRIPTION APPROVED
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PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



NOTES: UNLESS OTHERWISE SPECIFIED
 1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

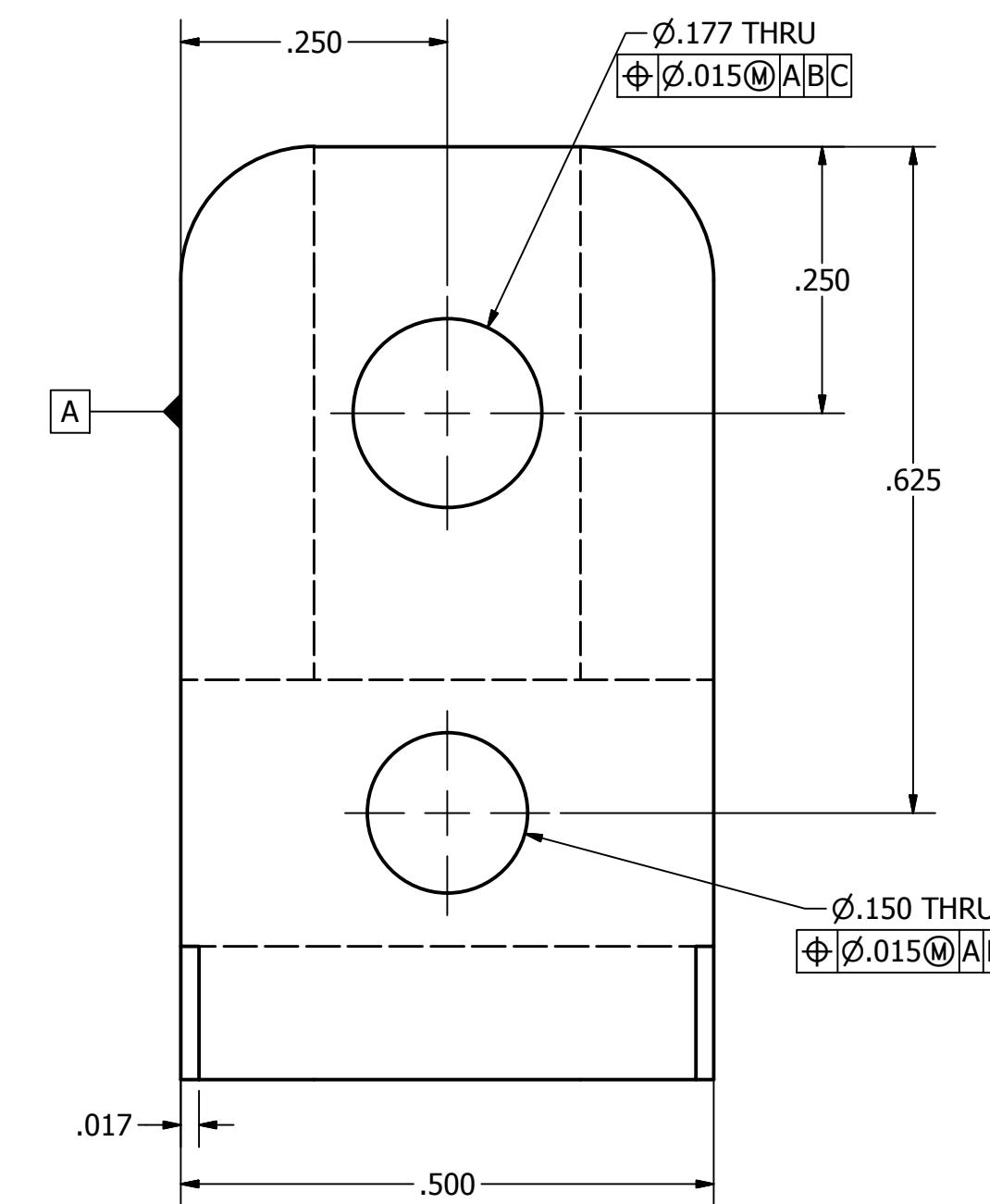
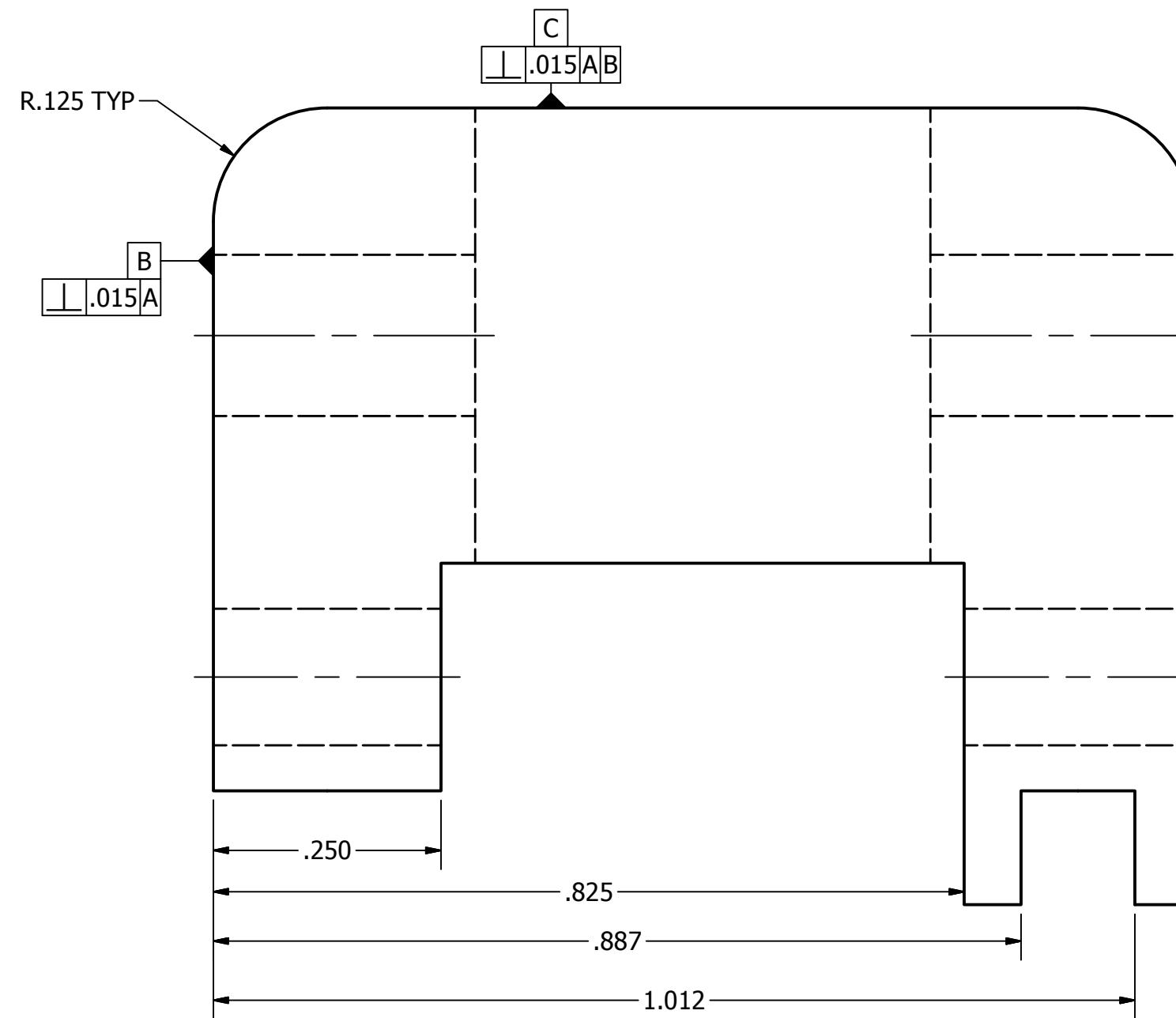
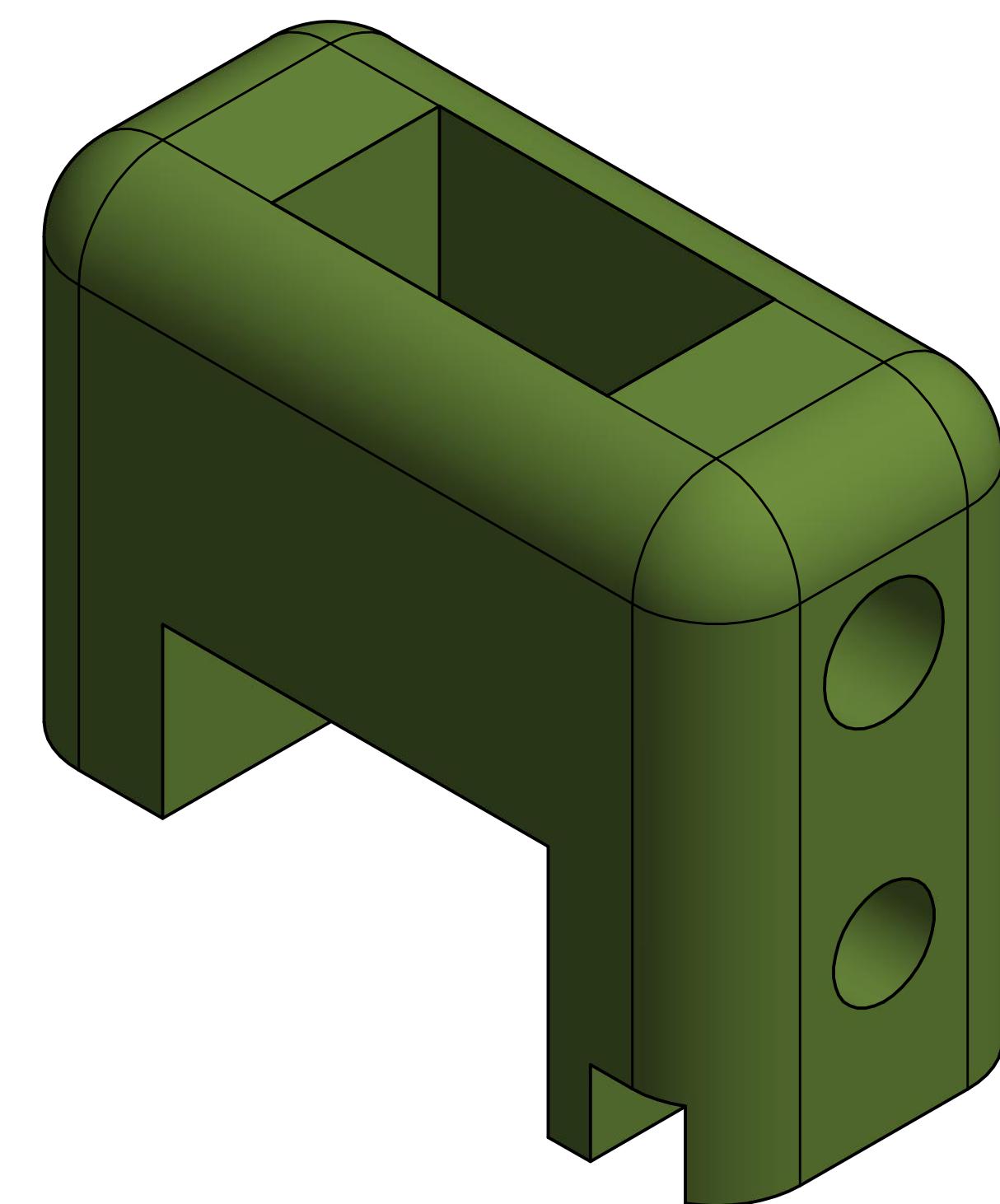
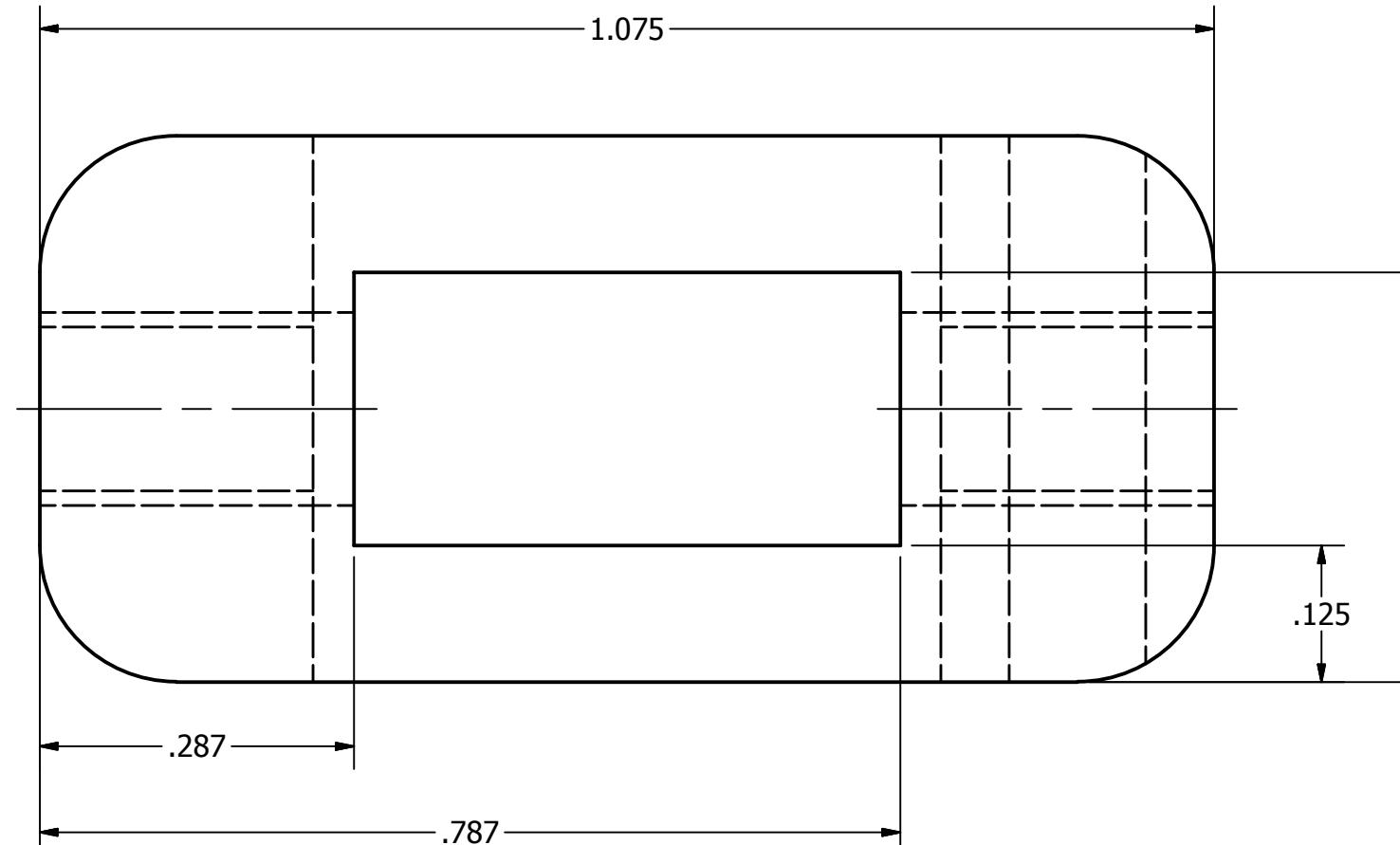
ITEM QTY		PART NUMBER	DESCRIPTION		SPECIFICATION
MATERIAL:		ALUMINUM 6061	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN: J. FIGUEROA 4/11/2013	
FINISH:			UNDER .014 .000 .005 500 THRU .750 .014 THRU .125 .001 .750 THRU 1.000 .126 THRU .250 .001 1.000 THRU 2.000	CHECKED: O. MIAH 4/24/2013 D. DOAN 4/24/2013 M. DELORIO 4/24/2013	
WEIGHT:	.063 LBS.	251 THRU 500	.006 OVER 2.000	APPROVED: L. LY 4/24/2013	
1. DO NOT SCALE DRAWING. 2. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: XXX ±.010 XX ±.03 X ±.1	ON ANGULAR DIMENSIONS: MACHINED ±.3° LOCATING ±.3° CHAMFERS ±.5°	REV: - D. DELORIO 4/24/2013	
CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES					
TITLE: IPT, SHROUD ACTUATION, SLIDER PLATE A					
SIZE: DWG NO: D 04-30-02 SCALE: 3:1 SUBSYSTEM: SHROUD ACTUATION SHEET: 1 OF 1					

8	7	6	5	4	3	2	1
			↓				

REVISION HISTORY		
REV	DESCRIPTION	APPROVED
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PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

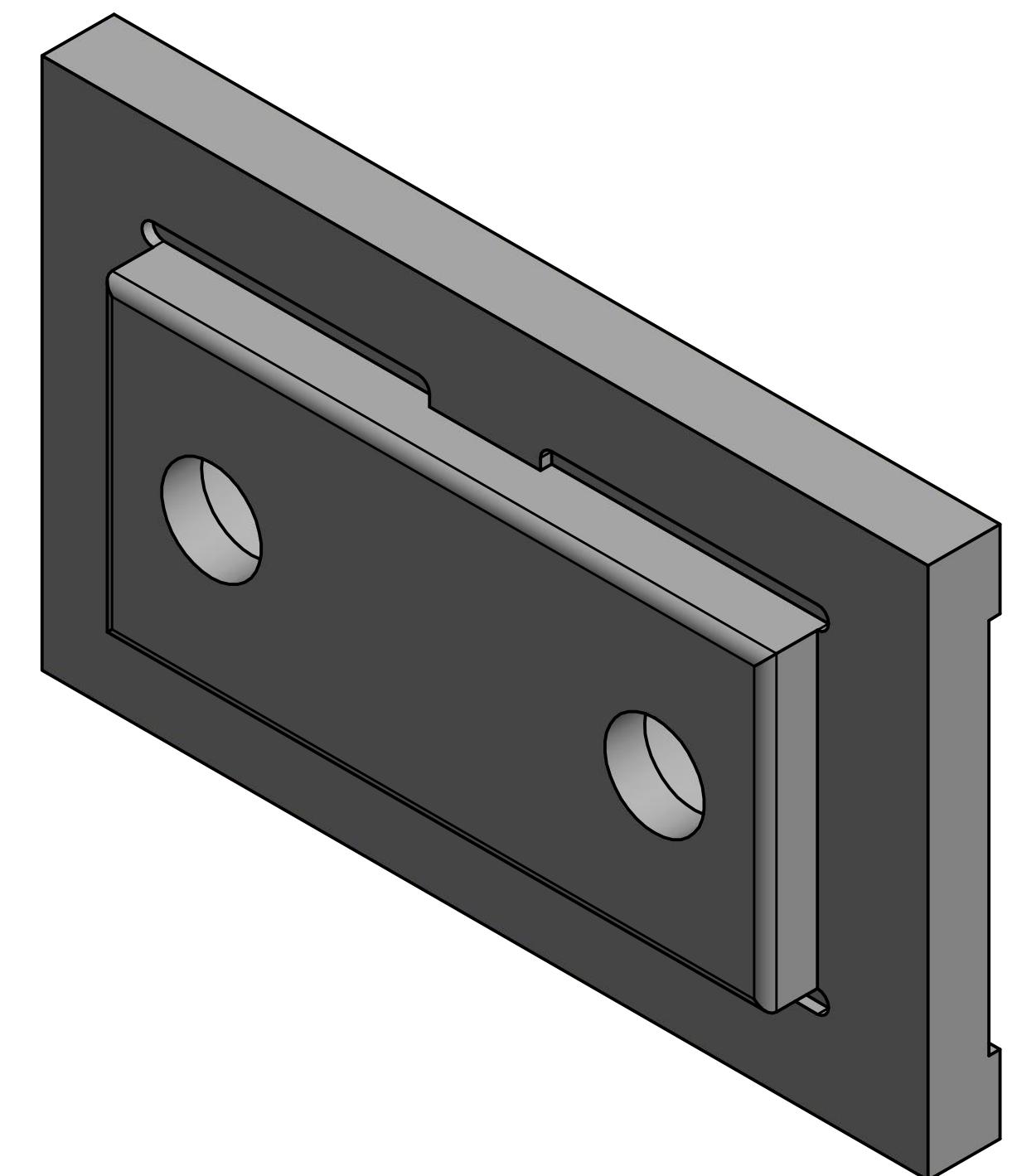
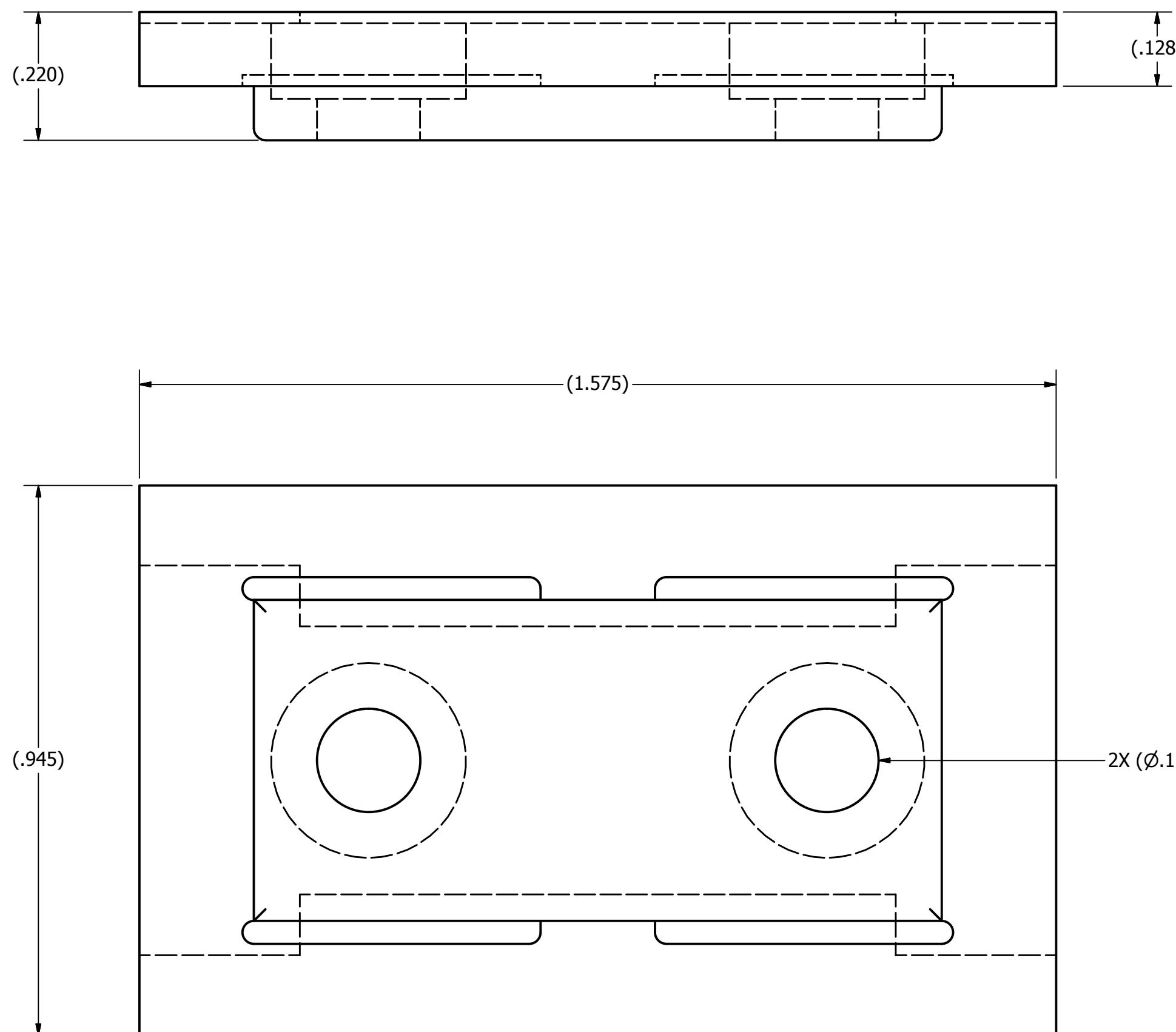


NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

3	1	04-30-03	LEADScrew INSERT	SPECIFICATION
ITEM	QTY	PART NUMBER	DESCRIPTION	
PARTS LIST				
MATERIAL:	UNLESS OTHERWISE SPECIFIED ABS PLASTIC	TOLERANCES ON ALL HOLE DIAMETERS: UNDER .014 .0 OVER .014 .005 .014 THRU .125 -.001 .126 THRU .250 -.001 WEIGHT: .009 LBS. 251 THRU 500 -.005 OVER 2000 -.005	DRAWN: J. FIGUEROA CHECKED: D. MAH 4/24/2013 APPROVED: M. DELORIO 4/24/2013 APPROVED: L. EYE 4/24/2013	4/11/2013 4/24/2013 4/24/2013 4/24/2013 4/24/2013
FINISH:			CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES	
TITLE:			IPT, SHROUD ACTUATION, VERTICAL LEADScrew INSERT	
SIZE: DWG NO:	D 04-30-03	REV: -	DELTA TECHNOLOGIES	
SCALE: 6:1	SUBSYSTEM: SHROUD ACTUATION	1 OF 1		

1. DO NOT SCALE DRAWING.
2. INTERPRET PER ASME Y14.5M-1995
3. DIMENSIONS ARE IN INCHES.
4. REMOVE BURRS AND SHARP EDGES.

REVISION HISTORY		
REV	DESCRIPTION	APPROVED
-	-	-

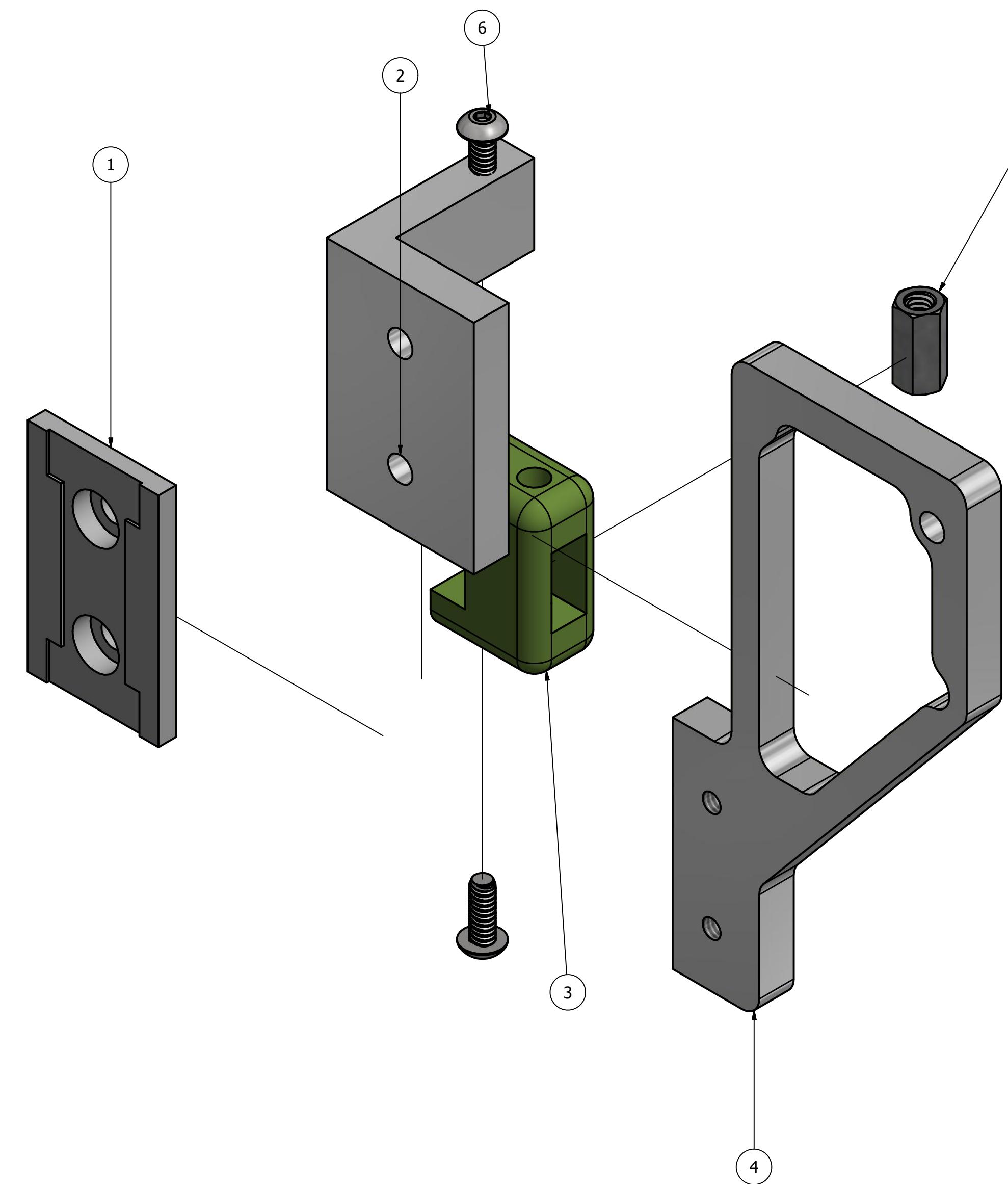


NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

SOURCE CONTROL DRAWING

ITEM	QTY	PART NUMBER	CARRIAGE	DESCRIPTION	SPECIFICATION
MATERIAL:			UNLESS OTHERWISE SPECIFIED	DRAWN : J. FIGUEROA	4/11/2013
			TOLERANCES ON ALL HOLE DIAMETERS	CHECKED : O. MIAH	4/24/2013
FINISH:			UNDER .014 0 +.008 -.005 500 THRU .750	DOOR	4/24/2013
			.014 THRU .125 -.001 .750 THRU 1.000	M. DELORIO	4/24/2013
WEIGHT:	0.007 LBS.		.126 THRU .250 +.006 -.004 1.000 THRU 2.000	APPROVED : L. EYE	4/24/2013
			251 THRU 500 +.006 -.004 OVER 2.000		
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.			ON DIMAL DIMENSIONS: XXX ±.010 XX ±.03 X ±.1	ON ANGULAR DIMENSIONS: MACHINED ±.03° LOCATING ±.03° CHAMFERS ±.5°	SIZE: DWG NO: D 04-30-05 REV: - TITLE: OTS, SHROUD ACTUATION, LOW-PROFILE CARRIAGE CALIFORNIA ACADEMY OF MATH & SCIENCE ENGINEERING DESIGN AND DEVELOPMENT DELTA TECHNOLOGIES SCALE: 5:1 SUBSYSTEM: SHROUD ACTUATION SHEET: 1 OF 1

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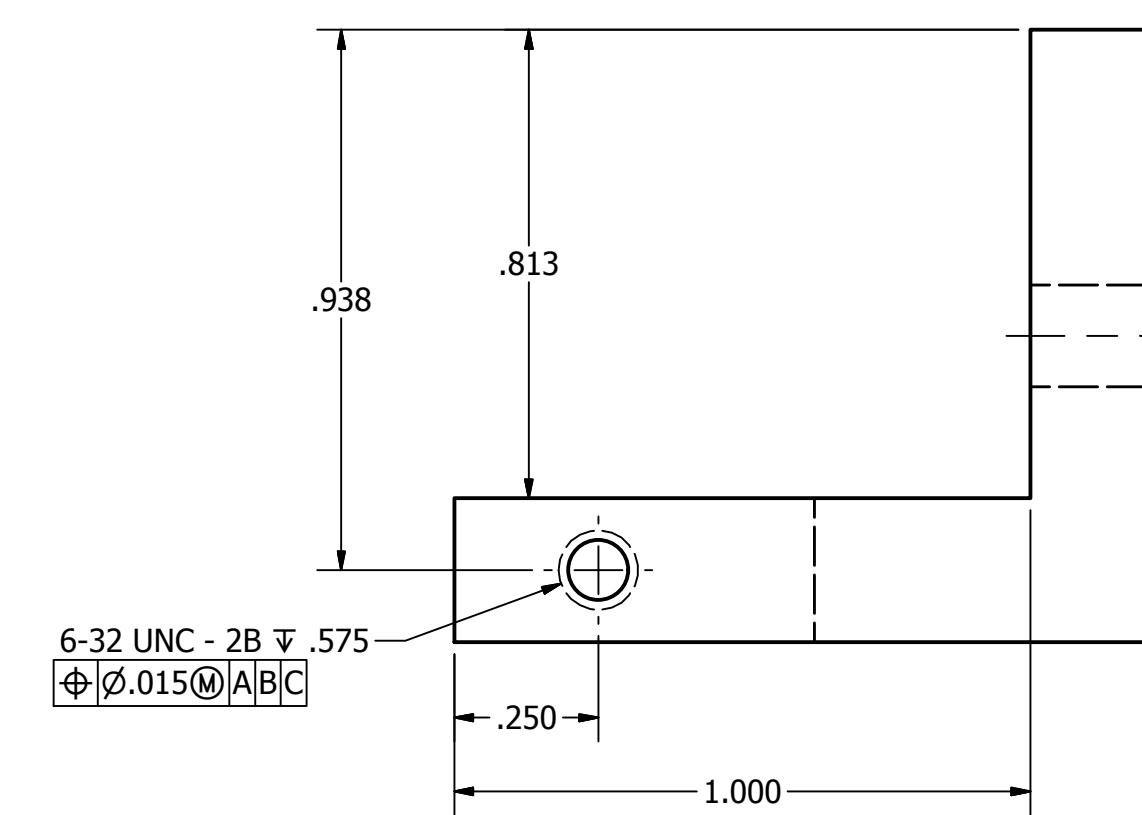
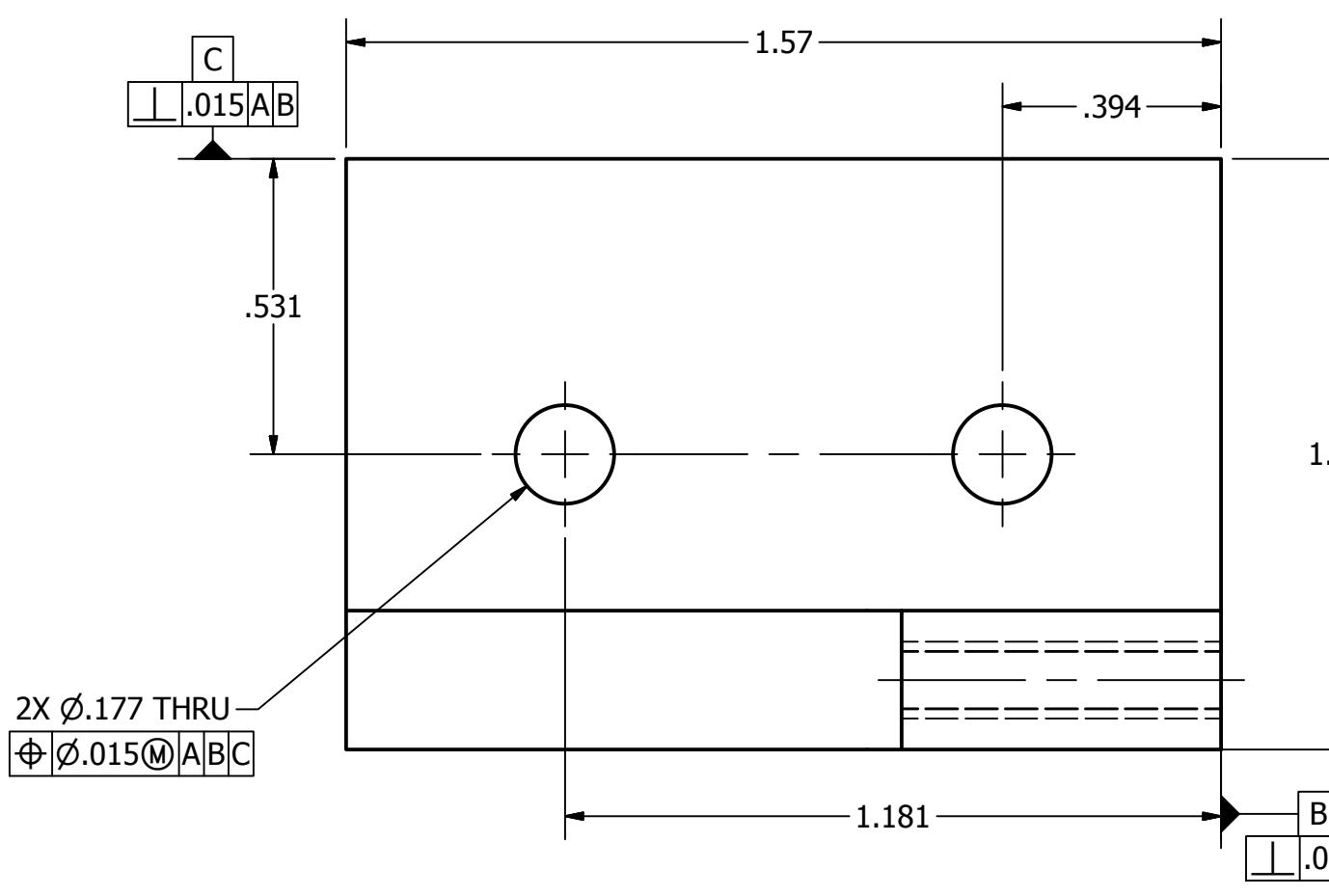
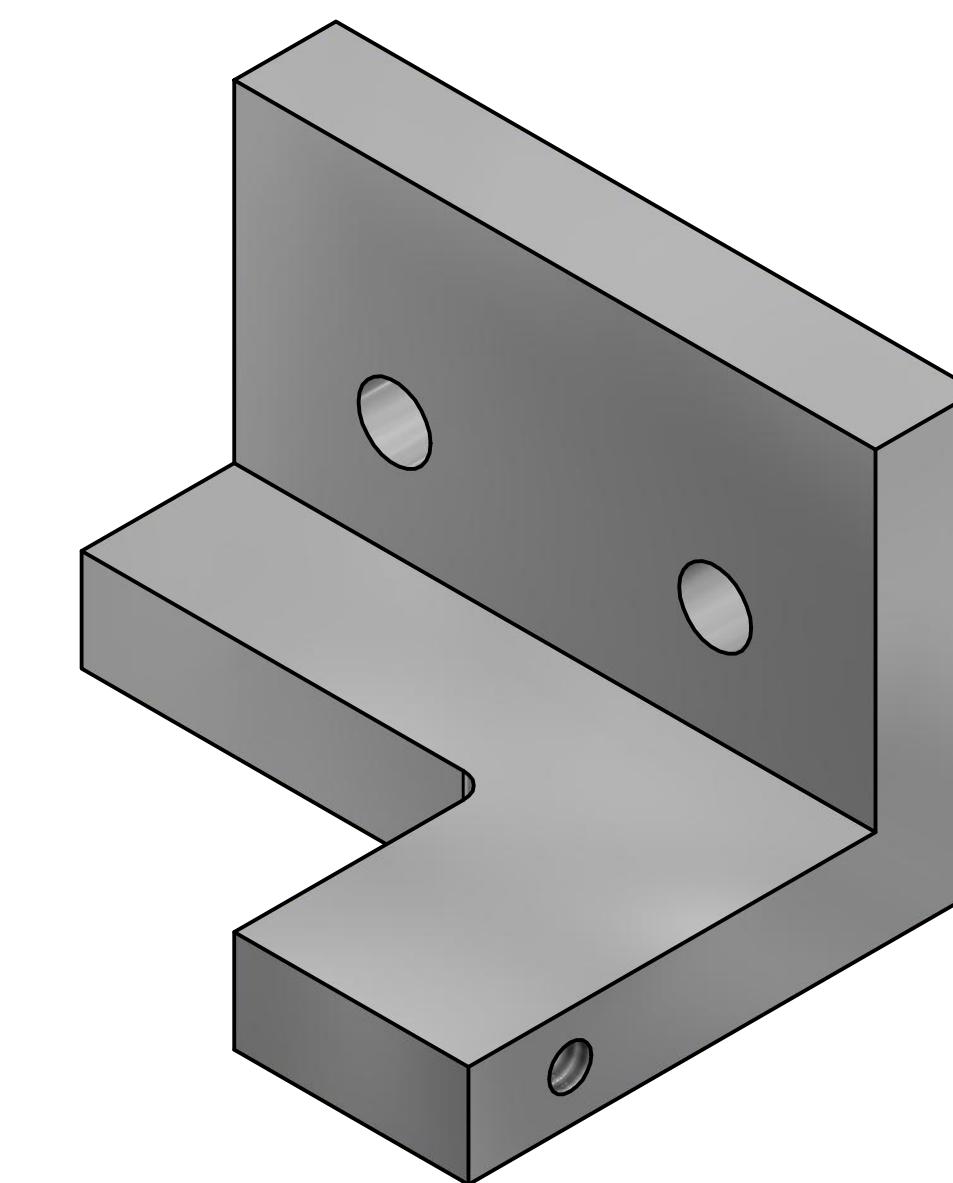
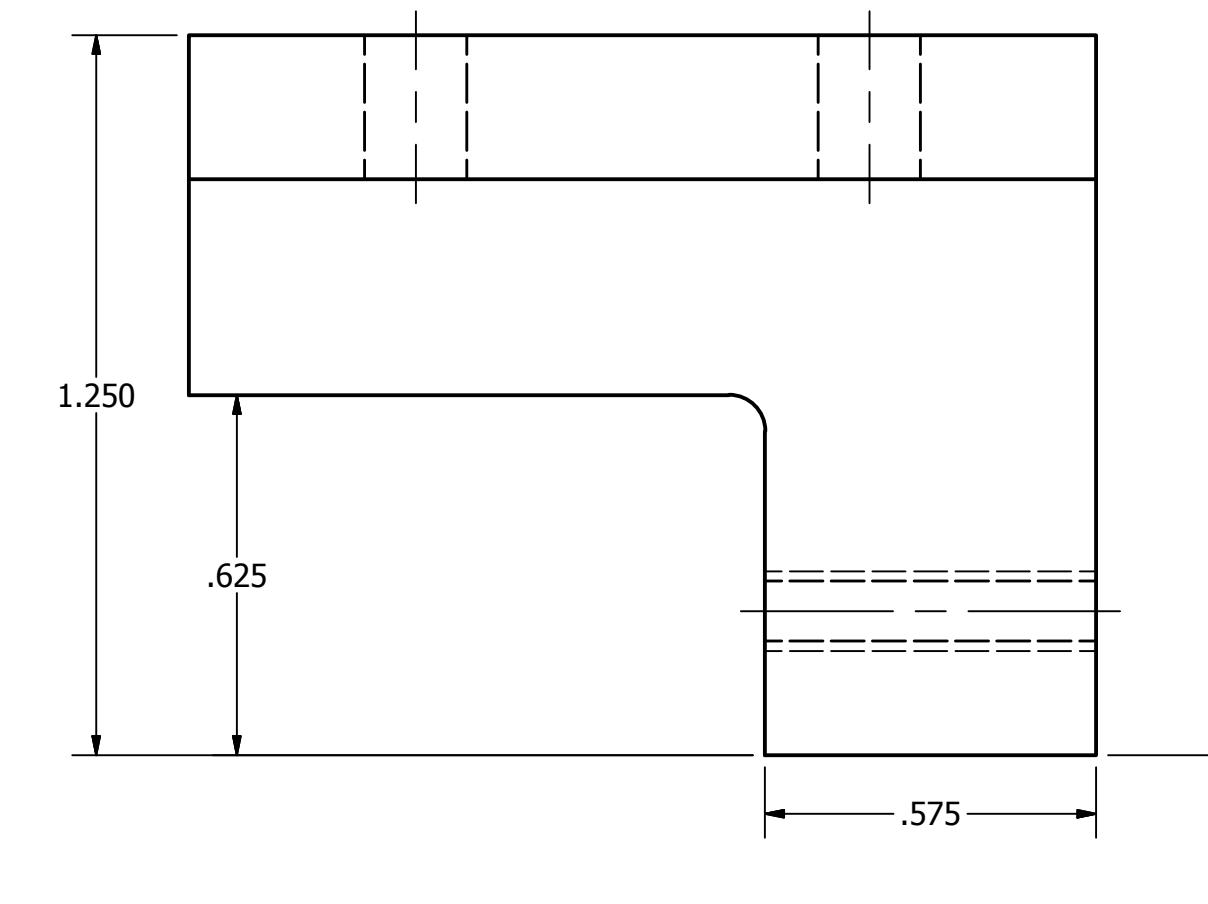
NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM	QTY	PART NUMBER	DESCRIPTION
6	2	91255A146	OTS, ALLOY STEEL BUTTON HEAD SOCKET CAP SCREW 6-32 THREAD, 3/8" LENGTH
5	1	91115A195	OTS, 18-8 SS FEMALE THREADED HEX STANDOFF 1/4" HEX, 1/2" LENGTH, 8-32 SCREW SIZE
4	1	6723K11	OTS, LOW-PROFILE CARRIAGE
3	1	04-40-03	IPT, SHROUDS ACTUATION, VERTICAL LEADScrew INSERT
2	1	04-40-02	IPT, SHROUDS ACTUATION, SLIDER PLATE B
1	1	04-40-01	IPT, SHROUDS ACTUATION, SLIDER MOUNT

MATERIAL:	UNLESS OTHERWISE SPECIFIED		DRAWN : D. DOAN 4/11/2013
	TOLENCES ON ALL HOLE DIAMETERS	CHECKED : O. MIAH 4/24/2013	
FINISH:	UNDER .014 0	+ .008 -.005 500 THRU 750	MFG : M. DELORIO 4/24/2013
	.014 THRU .125	- .001 +.005 750 THRU 1,000	
WEIGHT:	.126 THRU .250	+ .006 -.004 1,000 THRU 2,000	APPROVED : L. LYE 4/24/2013
	.153 LBS. 251 THRU 500	+ .006 -.004 OVER 2,000	
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DIMAL DIMENSIONS: XXX ± .010 XX ± .03 X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± .030° LOCATING ± .030° CHAMFERS ± .5°
			DELTA TECHNOLOGIES
			SIZE : DWG NO : D 04-40-00
			REV : -
			SCALE : 2:1
			SUBSYSTEM : SHROUD ACTUATION
			HEET : 1 OF 1

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

REVISION HISTORY		
REV	DESCRIPTION	APPROVED
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NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

ITEM	QTY	PART NUMBER	DESCRIPTION	SPECIFICATION
MATERIAL:		ALUMINUM 6061	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS	DRAWN: J. FIGUEROA 4/11/2013
FINISH:			UNDER .014 .000 .005 500 THRU .750 .014 THRU .125 -.001 .750 THRU 1.000 .126 THRU .250 -.001 1.000 THRU 2.000	CHECKED: O. MIAH 4/24/2013 D. DOAN 4/24/2013 M. DELORIO 4/24/2013
WEIGHT:	.063 LBS.	.251 THRU .500	OVER 2.000	APPROVED: L. EYE 4/24/2013
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DIMAL DIMENS. XXX ± .010 XX ± .03 X ± .1	ON ANGULAR DIMENS. MACHINED ± .03° LOCATING ± .03° CHAMFERS ± .5°	REV: -
				SIZE: DWG NO: D 04-40-02 SCALE: 3:1 SUBSYSTEM: SHROUD ACTUATION SHEET: 1 OF 1