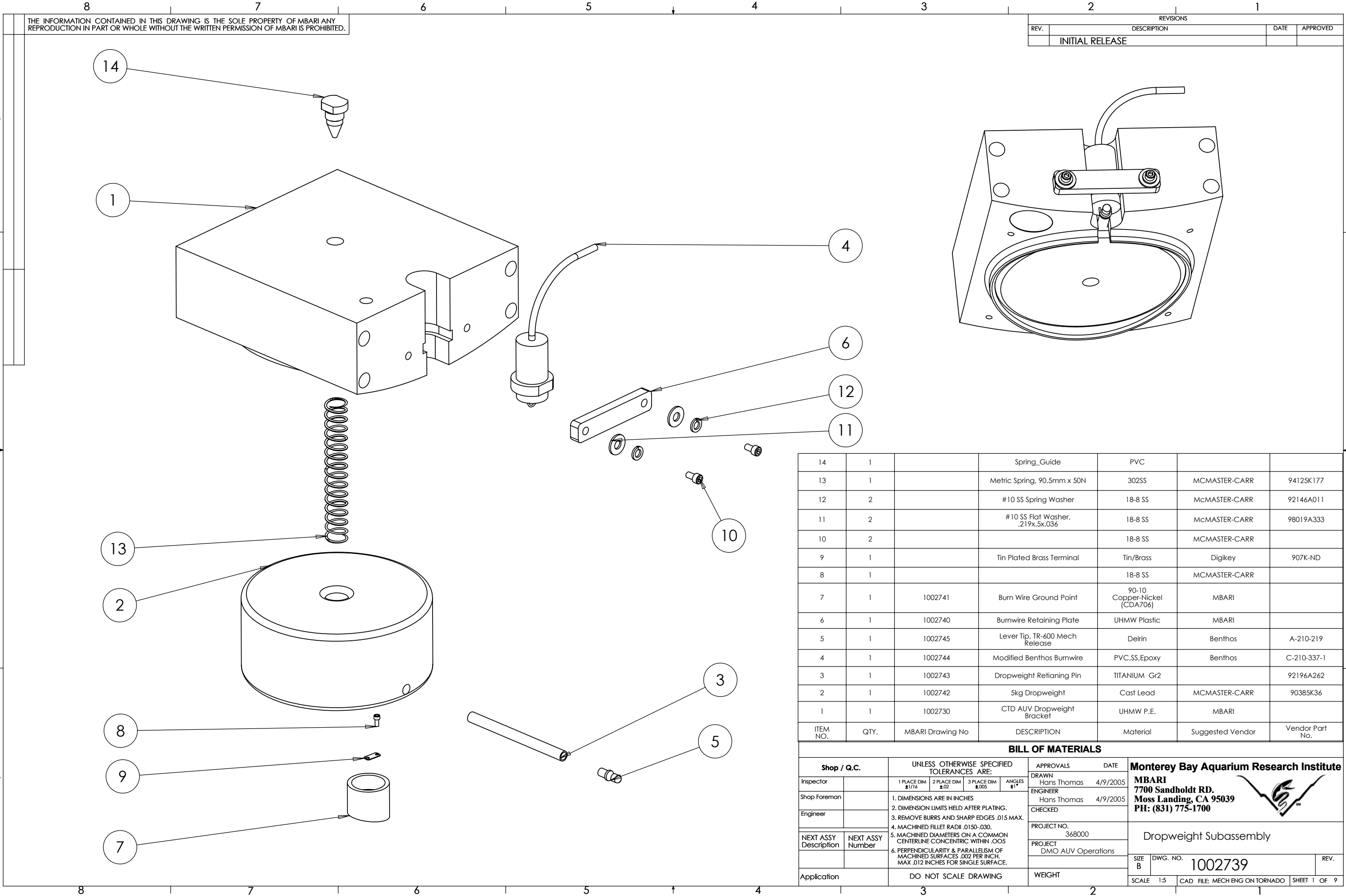




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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
INITIAL RELEASE			

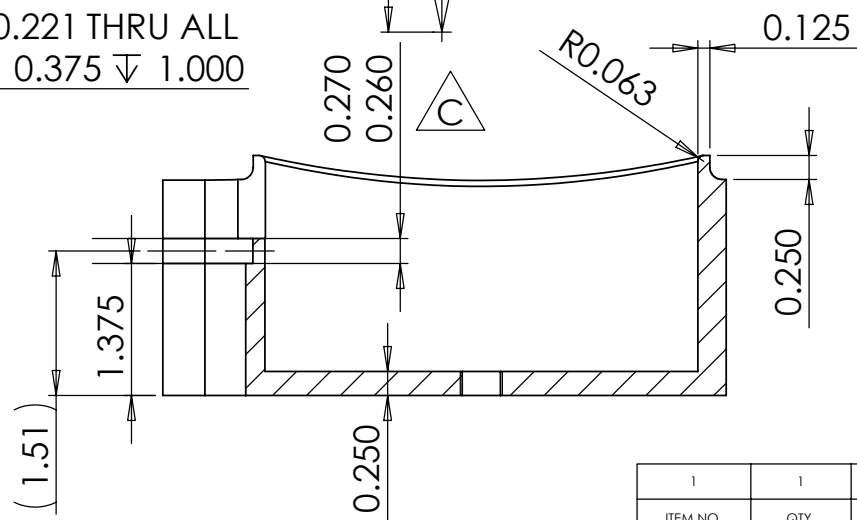
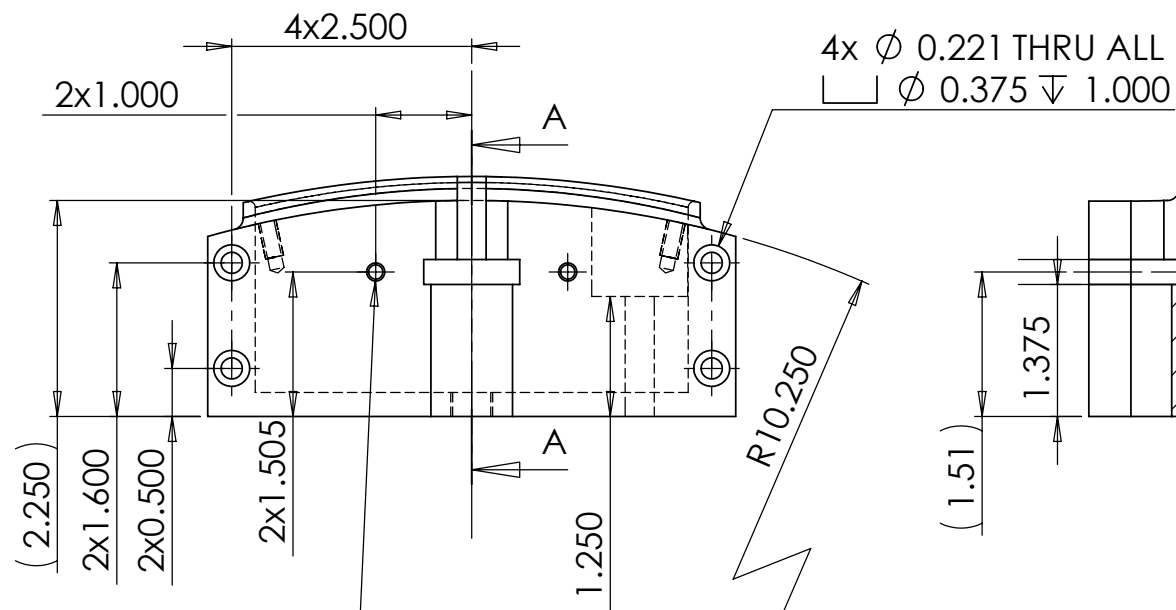
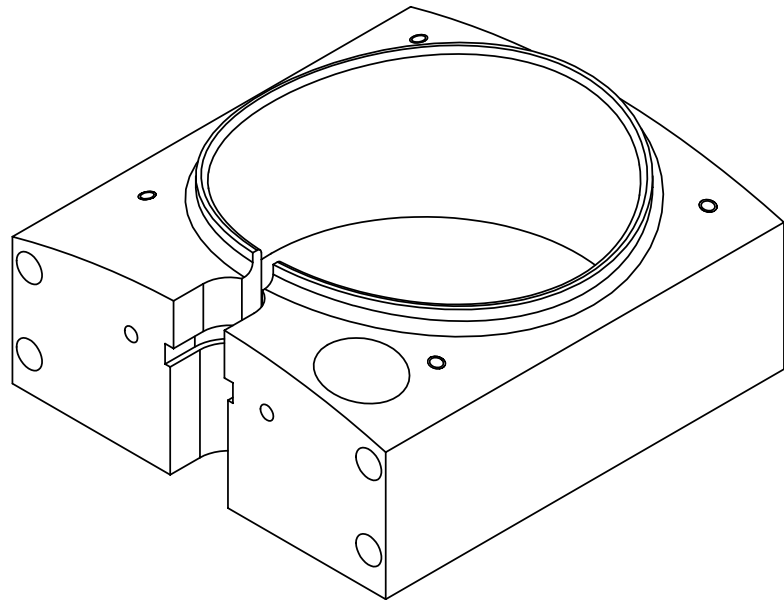
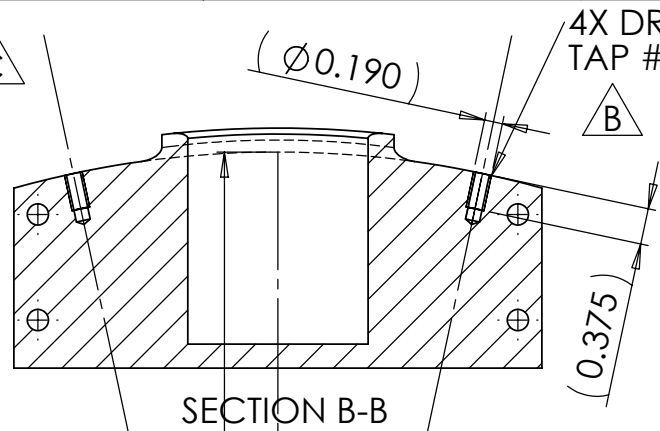
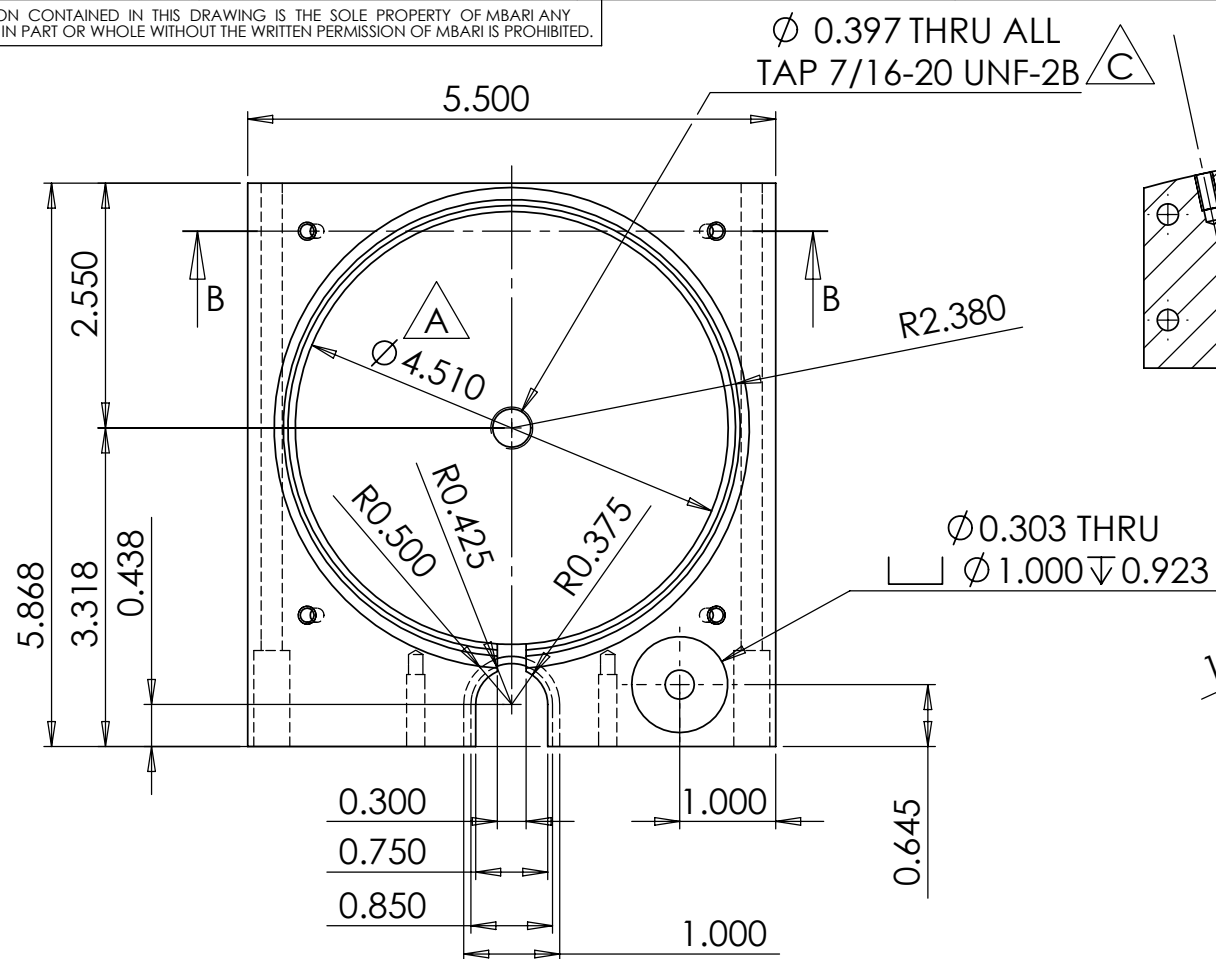
14	1		Spring_Guide	PVC		
13	1		Metric Spring, 90.5mm x 50N	302SS	MCMaster-CARR	94125K177
12	2		#10 SS Spring Washer	18-8 SS	McMASTER-CARR	92146A011
11	2		#10 SS Flat Washer, .219x.5x.036	18-8 SS	McMASTER-CARR	98019A333
10	2			18-8 SS	MCMaster-CARR	
9	1		Tin Plated Brass Terminal	Tin/Brass	Digikey	907K-ND
8	1			18-8 SS	MCMaster-CARR	
7	1	1002741	Burn Wire Ground Point	90-10 Copper-Nickel (CDA706)	MBARI	
6	1	1002740	Burnwire Retaining Plate	UHMW Plastic	MBARI	
5	1	1002745	Lever Tip, TR-600 Mech Release	Delrin	Benthos	A-210-219
4	1	1002744	Modified Benthos Burnwire	PVC,SS,Epoxy	Benthos	C-210-337-1
3	1	1002743	Dropweight Retianing Pin	TITANIUM Gr2		92196A262
2	1	1002742	5kg Dropweight	Cast Lead	MCMaster-CARR	90385K36
1	1	1002730	CTD AUV Dropweight Bracket	UHMW P.E.	MBARI	
ITEM NO.	QTY.	MBARI Drawing No	DESCRIPTION	Material	Suggested Vendor	Vendor Part No.

BILL OF MATERIALS

Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS	DATE	Monterey Bay Aquarium Research Institute		
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN	Hans Thomas 4/9/2005	MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700		
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER	Hans Thomas 4/9/2005			
Engineer						CHECKED				
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO.	368000	Dropweight Subassembly		
						PROJECT	DMO AUV Operations			
Application		DO NOT SCALE DRAWING				WEIGHT		SIZE B	DWG. NO. 1002739	REV.
						SCALE 1:5		CAD FILE: MECH ENG ON TORNADO	SHEET 1 OF 9	

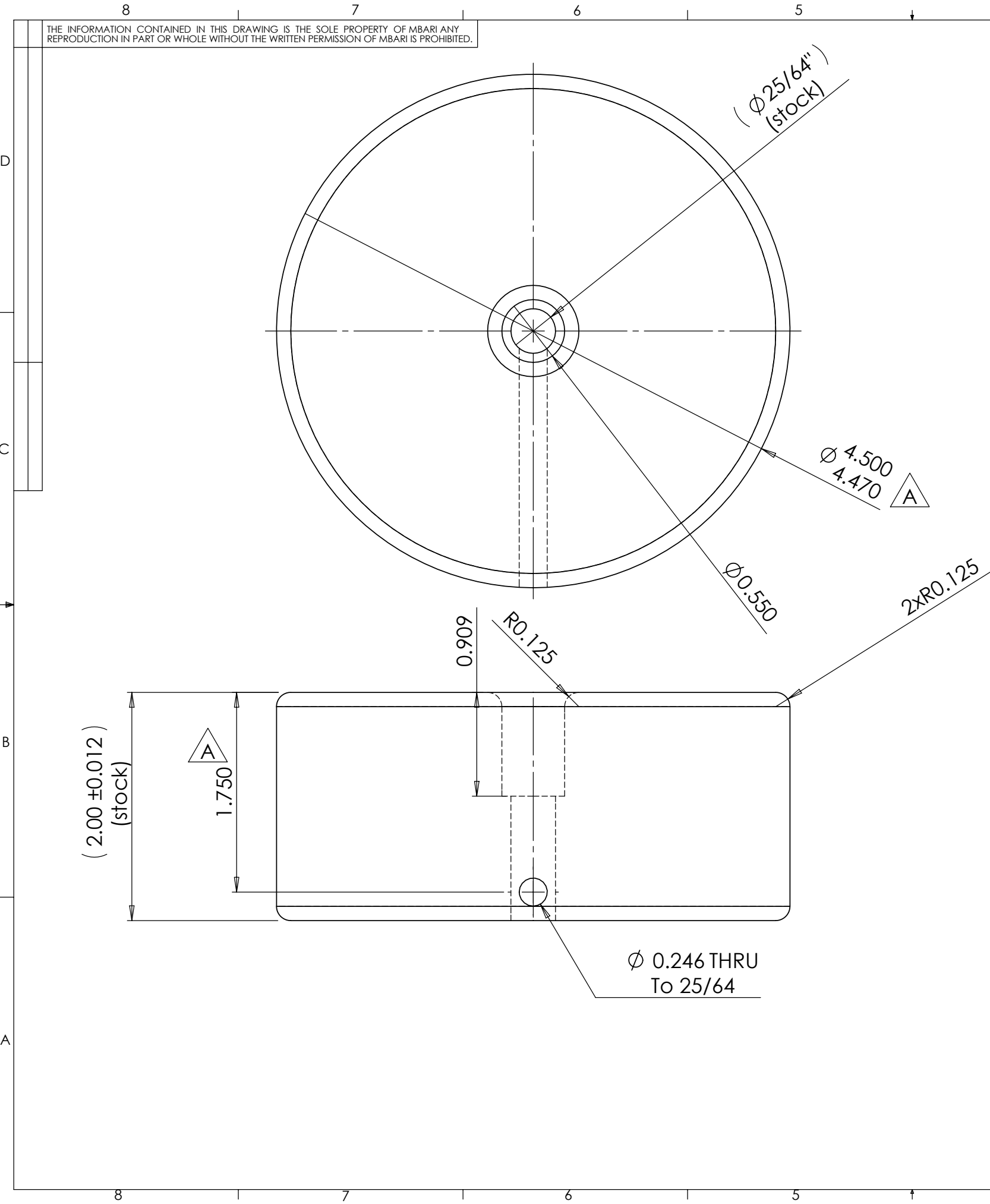
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE		
A	CHG MAT'L TO PVC FRM UHMW P.E. CHG I.D. BORE TO 4.510 FRM 4.505	12/2/05	J.E.
B	ADD SECTION BB. ADD TAP #10-24 (4PLACES)	12/2/05	J.E.
C	ADD TAPPED HOLE 7/16-20 ADD SLOT DIM LIMIT TOL.	1/19/06	J.E.

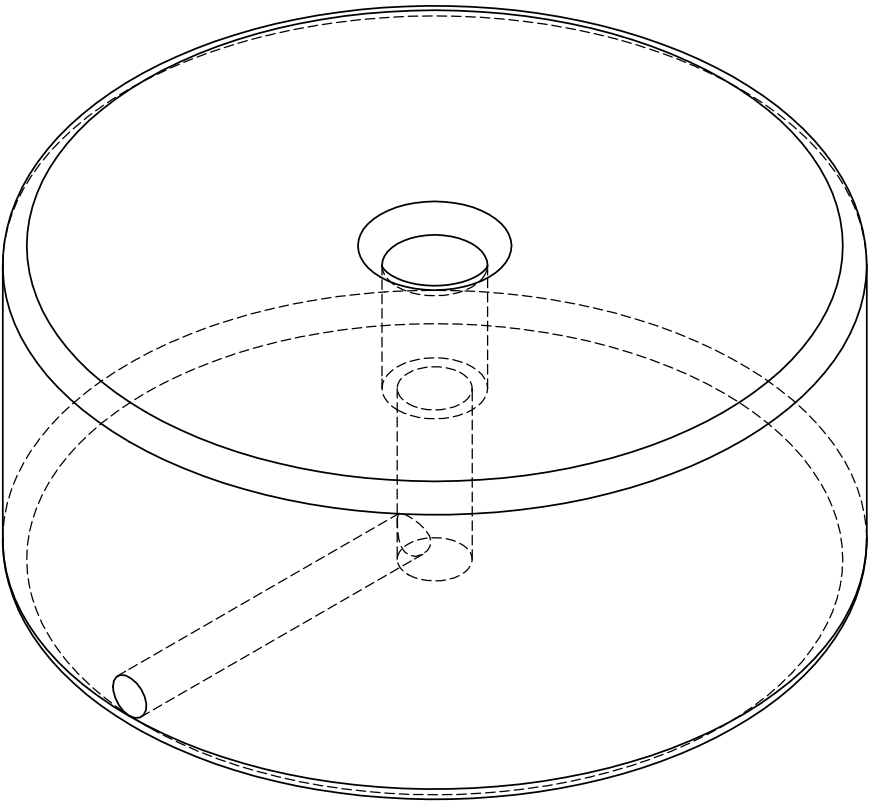


SECTION A-A

1	1	1002730	CTD AUV Dropweight Bracket		UHMW P.E.	
ITEM NO.	QTY.	Part_Number	DESCRIPTION		VENDOR	MATERIAL
BILL OF MATERIALS						
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS	DATE	
Inspector		1 PLACE DIM. ±.1/16	2 PLACE DIM. ±.02	3 PLACE DIM. ±.005	ANGLES ±.1°	
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				DRAWN Hans Thomas 4/9/2005 ENGINEER Hans Thomas 4/9/2005 CHECKED
Engineer						
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO. 368000
						PROJECT DMO AUV Operations
Application		DO NOT SCALE DRAWING		WEIGHT		
				SIZE B DWG. NO. 1002730 SCALE 1:2 CAD FILE: MECH ENG ON TORNADO SHEET 2 OF 9		REV. C

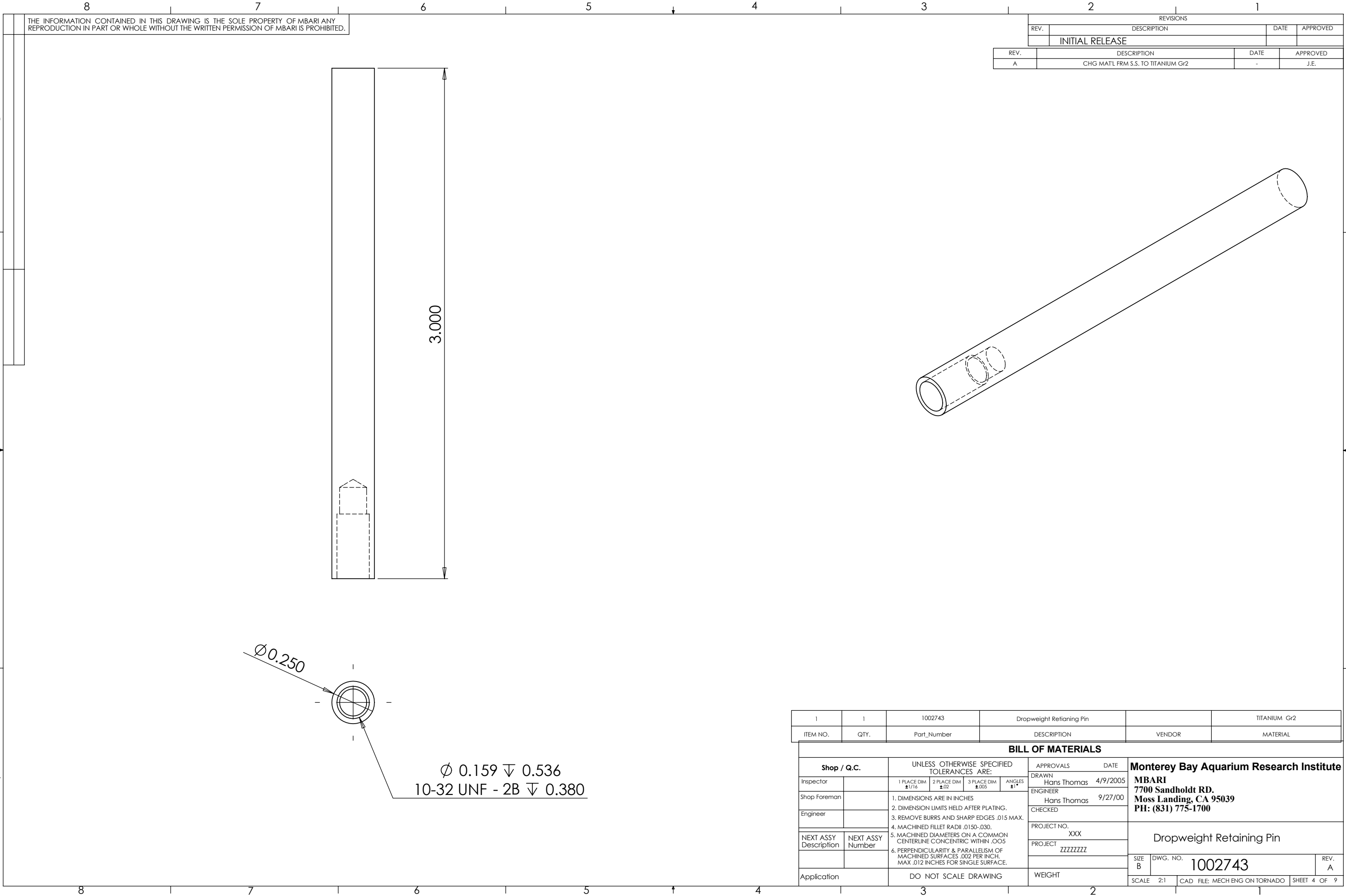


REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
INITIAL RELEASE			
REV.	DESCRIPTION	DATE	APPROVED
A	CHG HOLE DIM'ING & O.D. TOLERANCE	-	J.E.



PART MODIFICATION DRAWING

1	1002742	5kg Dropweight	MCMaster-CARR	90385K36	Cast Lead
QTY.	PartNo	DESCRIPTION	Vendor	Vendor Part No.	Material
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.		DRAWN Hans Thomas 4/9/2005	Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 
Engineer				ENGINEER Hans Thomas 4/9/2005	
				CHECKED	
NEXT ASSY Description	NEXT ASSY Number			PROJECT NO. 368000	
				PROJECT DMO AUV Operations	5kg AUV Dropweight
Application		DO NOT SCALE DRAWING		WEIGHT	
				SIZE B	DWG. NO. 1002742
				SCALE 1:1	CAD FILE: MECH ENG ON TORNADO SHEET 3 OF 9



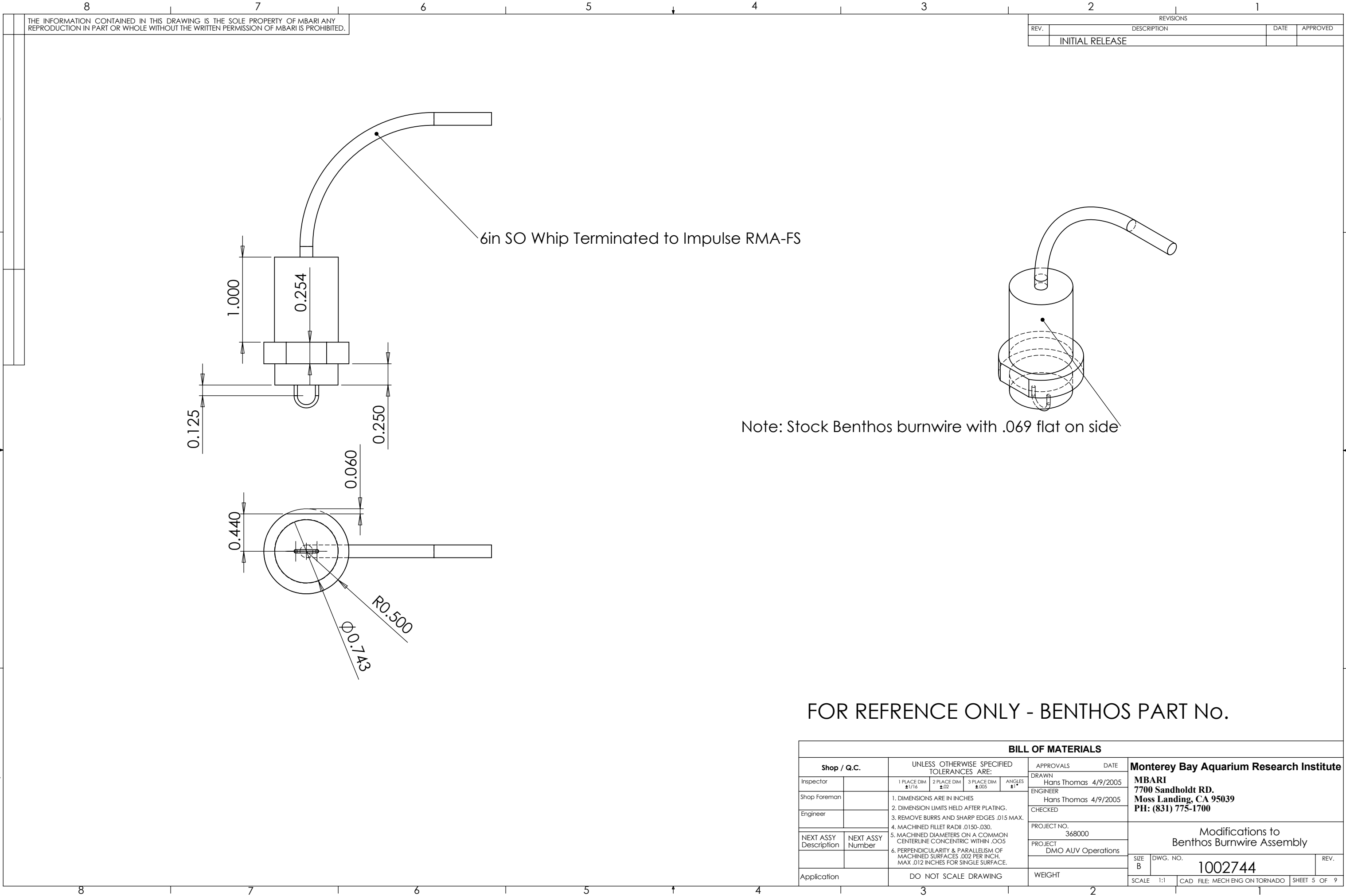
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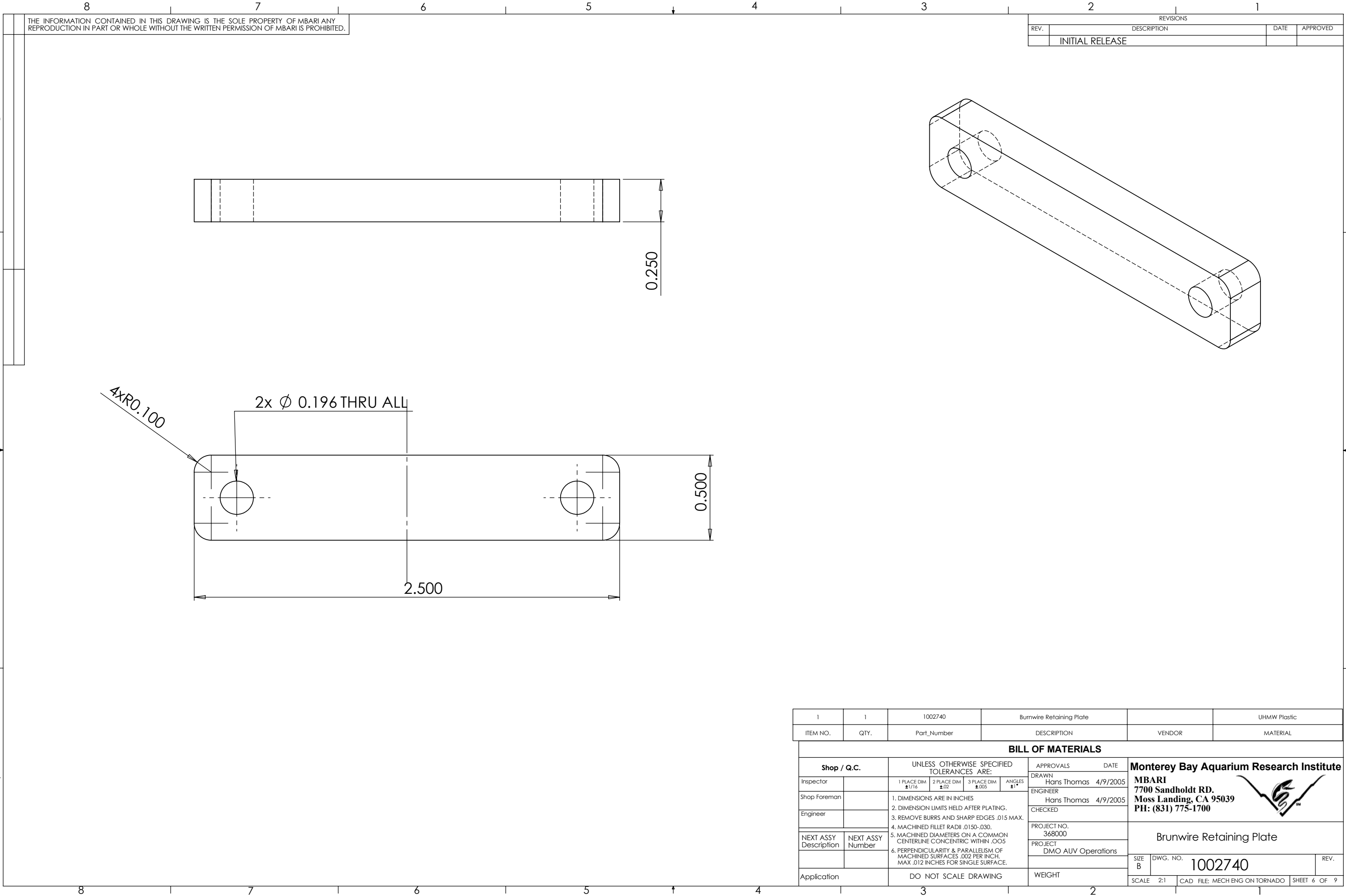
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
INITIAL RELEASE			
REV.	DESCRIPTION	DATE	APPROVED
A	CHG MAT'L FRM S.S. TO TITANIUM Gr2	-	J.E.

1	1	1002743	Dropweight Retianing Pin		TITANIUM Gr2
ITEM NO.	QTY.	Part_Number	DESCRIPTION	VENDOR	MATERIAL
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM $\pm 1/16$	2 PLACE DIM $\pm .02$	DRAWN Hans Thomas	4/9/2005
Shop Foreman		3 PLACE DIM $\pm .005$	ANGLES $\pm 1^\circ$	ENGINEER Hans Thomas	9/27/00
Engineer		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.		CHECKED	
NEXT ASSY Description	NEXT ASSY Number			PROJECT NO. XXX	Dropweight Retaining Pin
				PROJECT ZZZZZZZZ	
Application		DO NOT SCALE DRAWING		WEIGHT	
				SCALE 2:1	
				CAD FILE: MECH ENG ON TORNADO	
				SHEET 4 OF 9	

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$\varnothing$ 0.159 ∇ 0.536
10-32 UNF - 2B ∇ 0.380





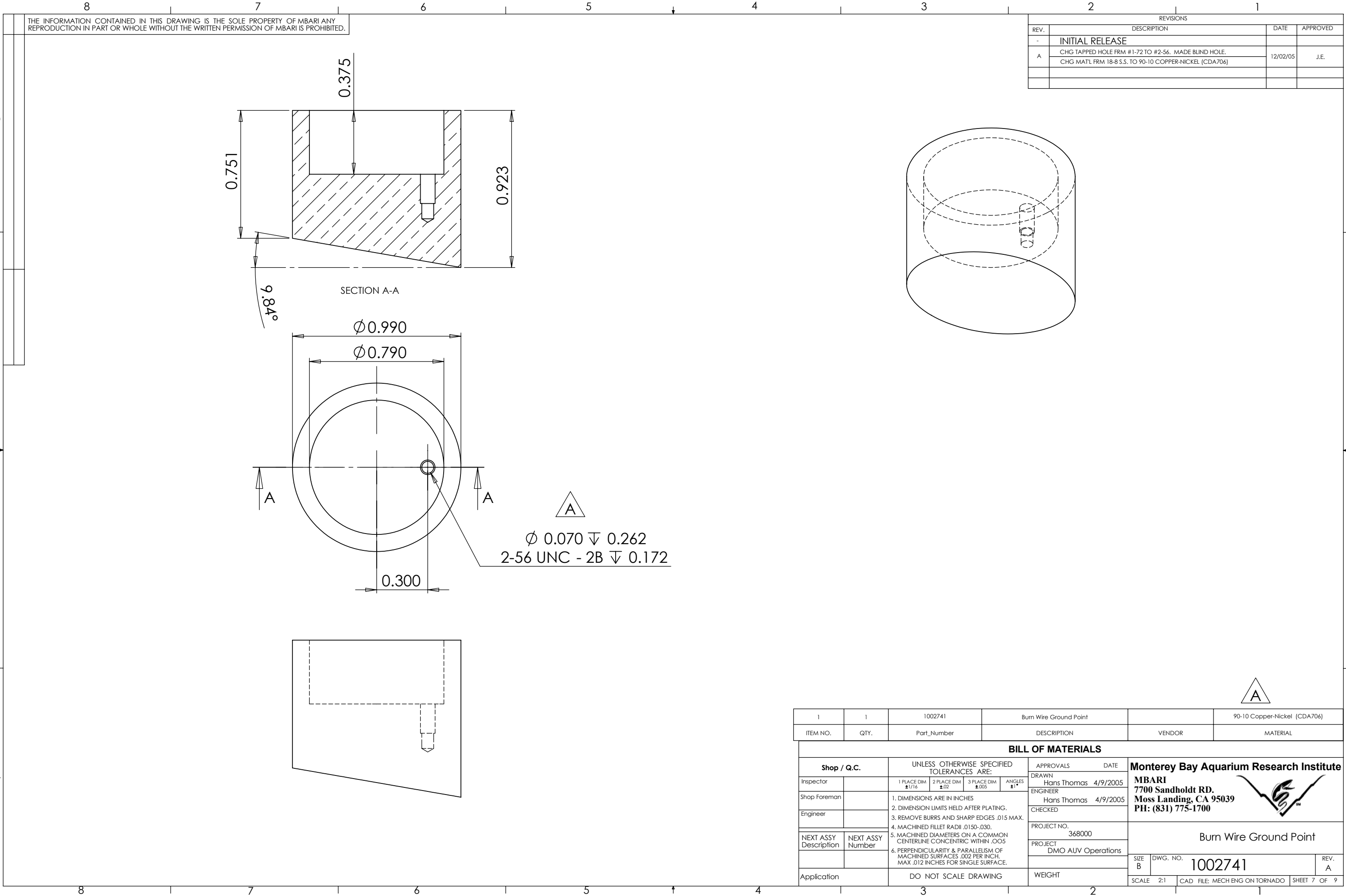
1	1	1002740	Burnwire Retaining Plate		UHMW Plastic
ITEM NO.	QTY.	Part_Number	DESCRIPTION	VENDOR	MATERIAL
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.		DRAWN Hans Thomas 4/9/2005	
Engineer				ENGINEER Hans Thomas 4/9/2005	
				CHECKED	
NEXT ASSY Description	NEXT ASSY Number			PROJECT NO. 368000	
				PROJECT DMO AUV Operations	
Application		DO NOT SCALE DRAWING		WEIGHT	
				SIZE B	DWG. NO. 1002740
				SCALE 2:1	CAD FILE: MECH ENG ON TORNADO
				SHEET 6 OF 9	

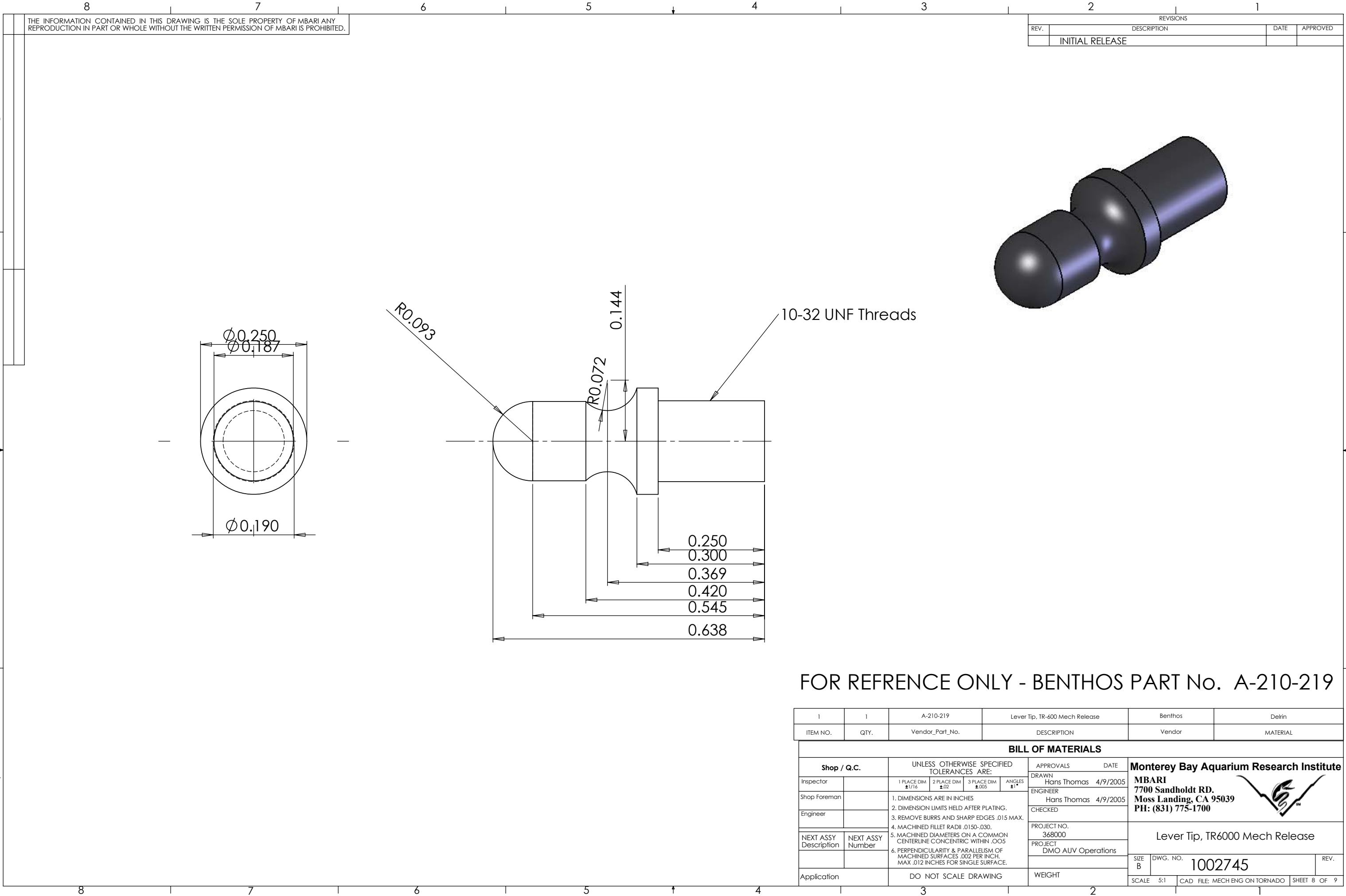
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Brunwire Retaining Plate

REV.



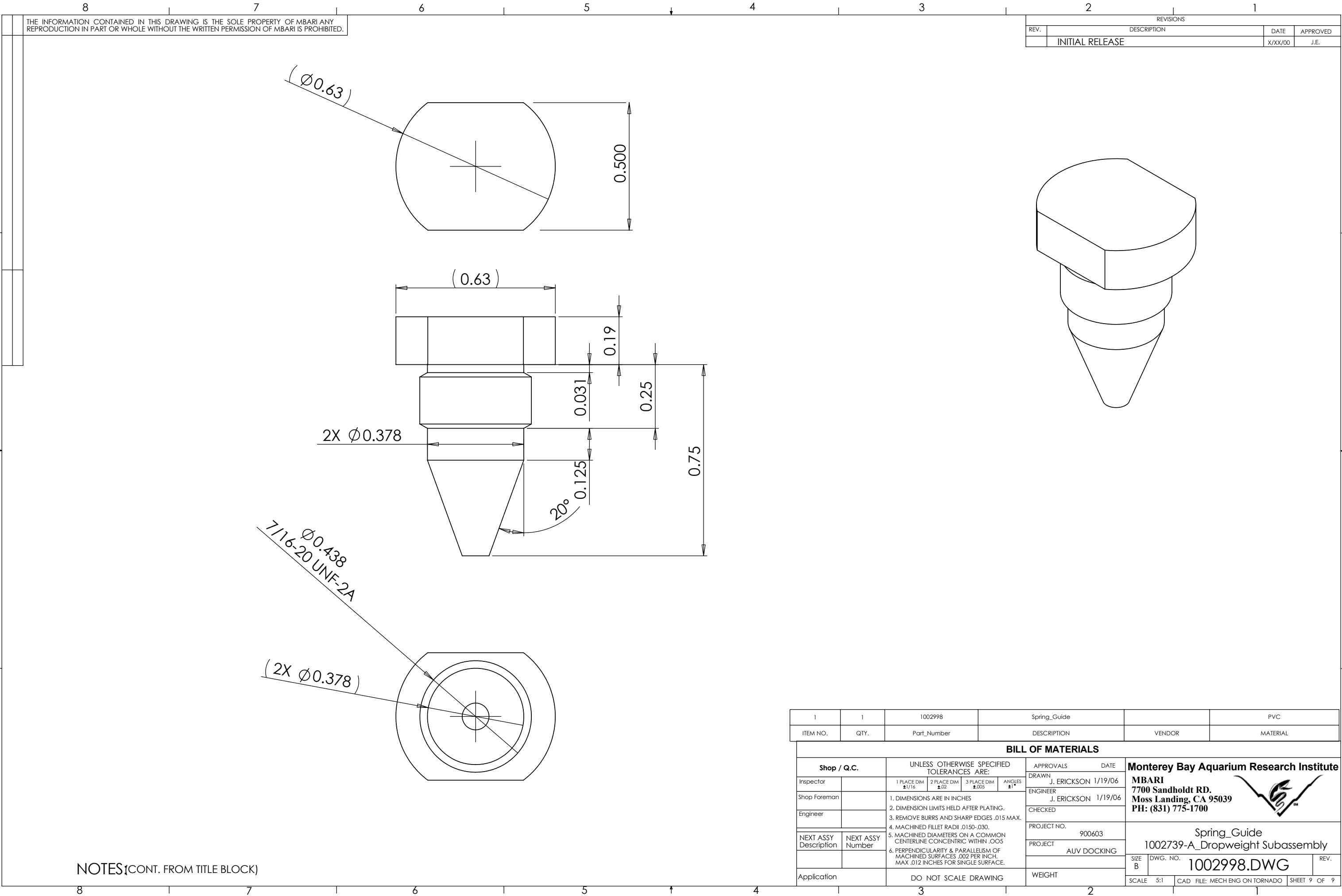


FOR REFERENCE ONLY - BENTHOS PART No. A-210-219

1	1	A-210-219	Lever Tip, TR-600 Mech Release	Benthos	Delrin
ITEM NO.	QTY.	Vendor_Part_No.	DESCRIPTION	Vendor	MATERIAL
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM $\pm 1/16$	2 PLACE DIM $\pm .02$	3 PLACE DIM $\pm .005$	ANGLES $\pm 1^\circ$
Shop Foreman		1. DIMENSIONS ARE IN INCHES		DRAWN Hans Thomas 4/9/2005	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.		ENGINEER Hans Thomas 4/9/2005	
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		CHECKED	
		4. MACHINED FILLET RADII .0150-.030.		PROJECT NO. 368000	
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		PROJECT DMO AUV Operations	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.		Lever Tip, TR6000 Mech Release	
Application		DO NOT SCALE DRAWING		WEIGHT	
				SIZE B	DWG. NO. 1002745
				SCALE 5:1	CAD FILE: MECH ENG ON TORNADO SHEET 8 OF 9

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NOTES (CONT. FROM TITLE BLOCK)

1	1	1002998	Spring_Guide		PVC
ITEM NO.	QTY.	Part_Number	DESCRIPTION	VENDOR	MATERIAL
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.		DRAWN J. ERICKSON 1/19/06	Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 
Engineer				ENGINEER J. ERICKSON 1/19/06	
				CHECKED	
NEXT ASSY Description	NEXT ASSY Number			PROJECT NO. 900603	Spring_Guide 1002739-A_Dropweight Subassembly
				PROJECT AUV DOCKING	
Application		DO NOT SCALE DRAWING		WEIGHT	SIZE B
					DWG. NO. 1002998.DWG
					REV.
				SCALE 5:1	CAD FILE: MECH ENG ON TORNADO SHEET 9 OF 9