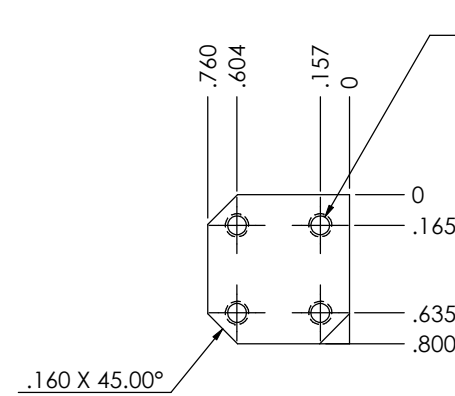
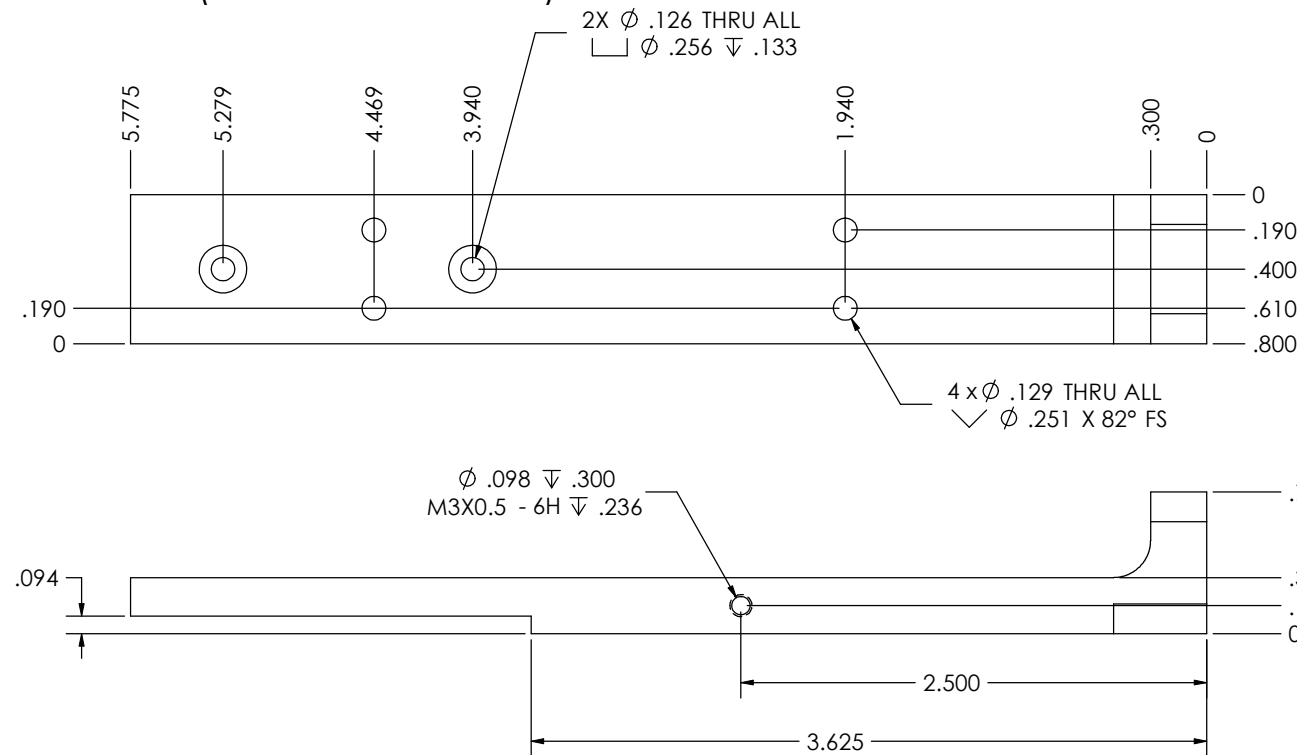
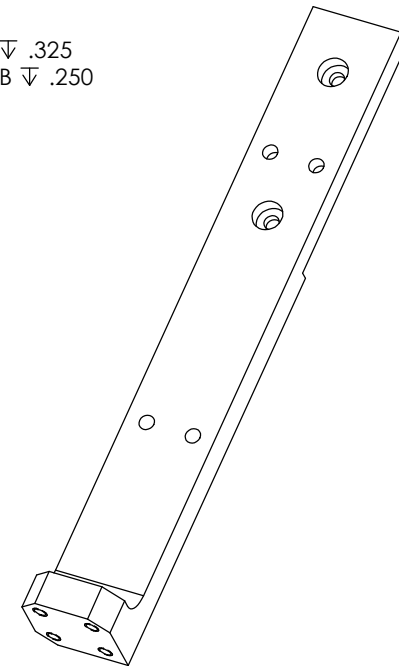


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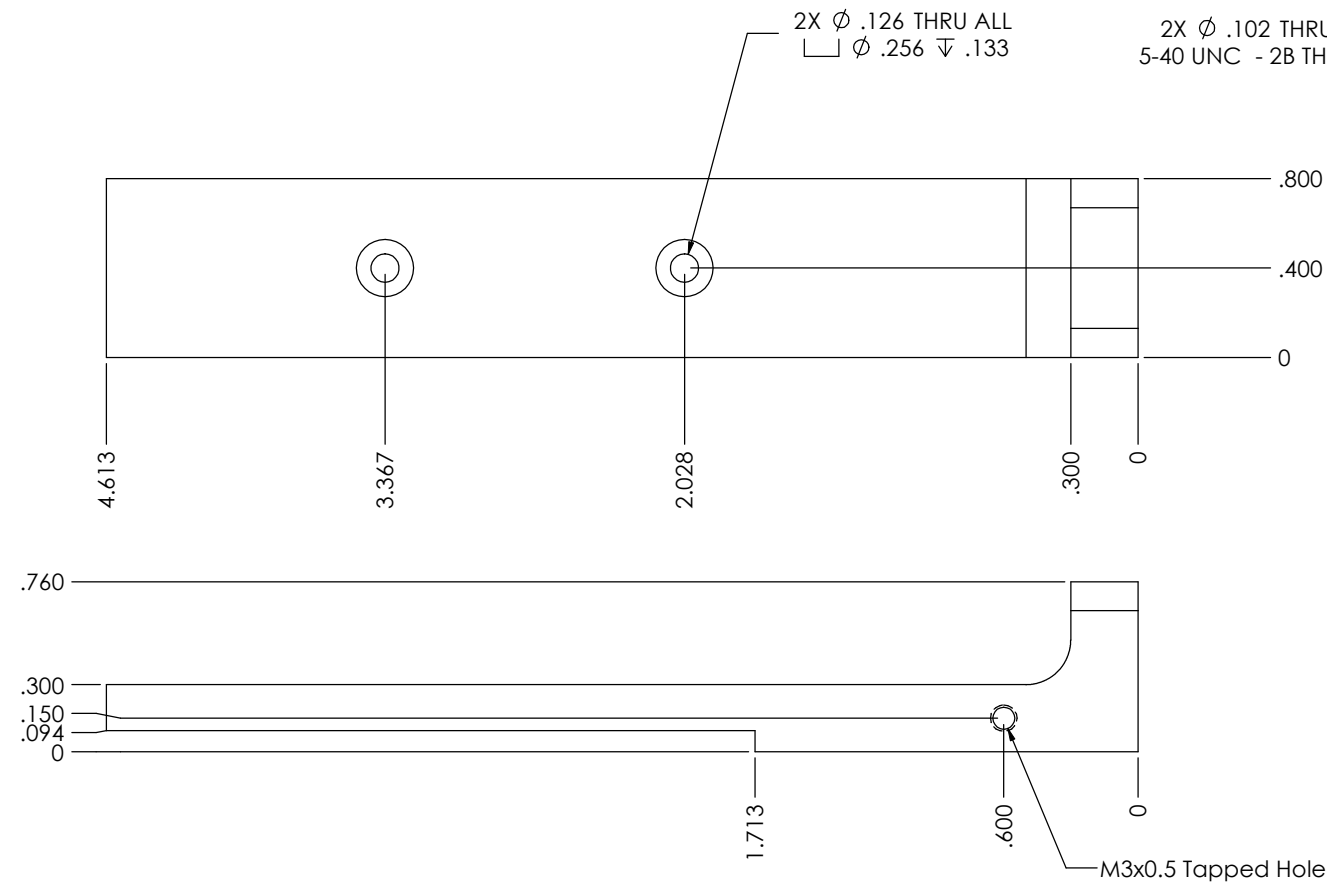
1002330-003 (CBV and PBV Mount)



4X $\phi .102 \nabla .325$
5-40 UNC - 2B $\nabla .250$



1002330-004 (PRV Mount)



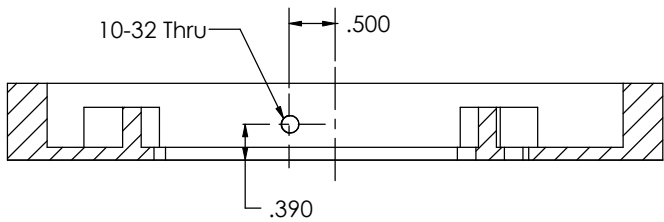
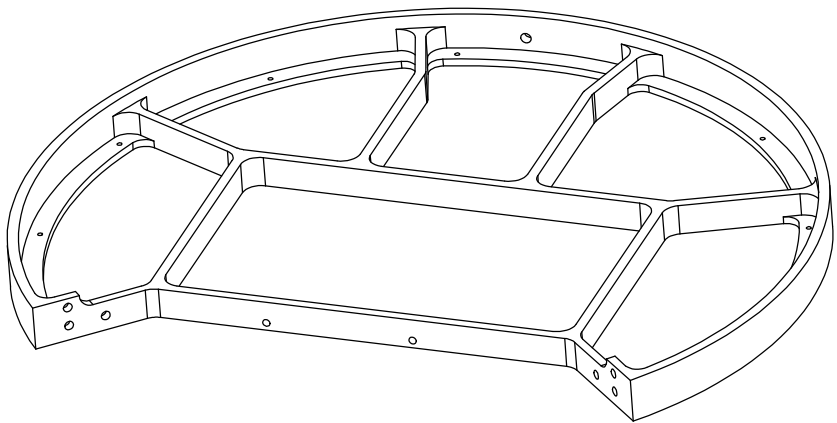
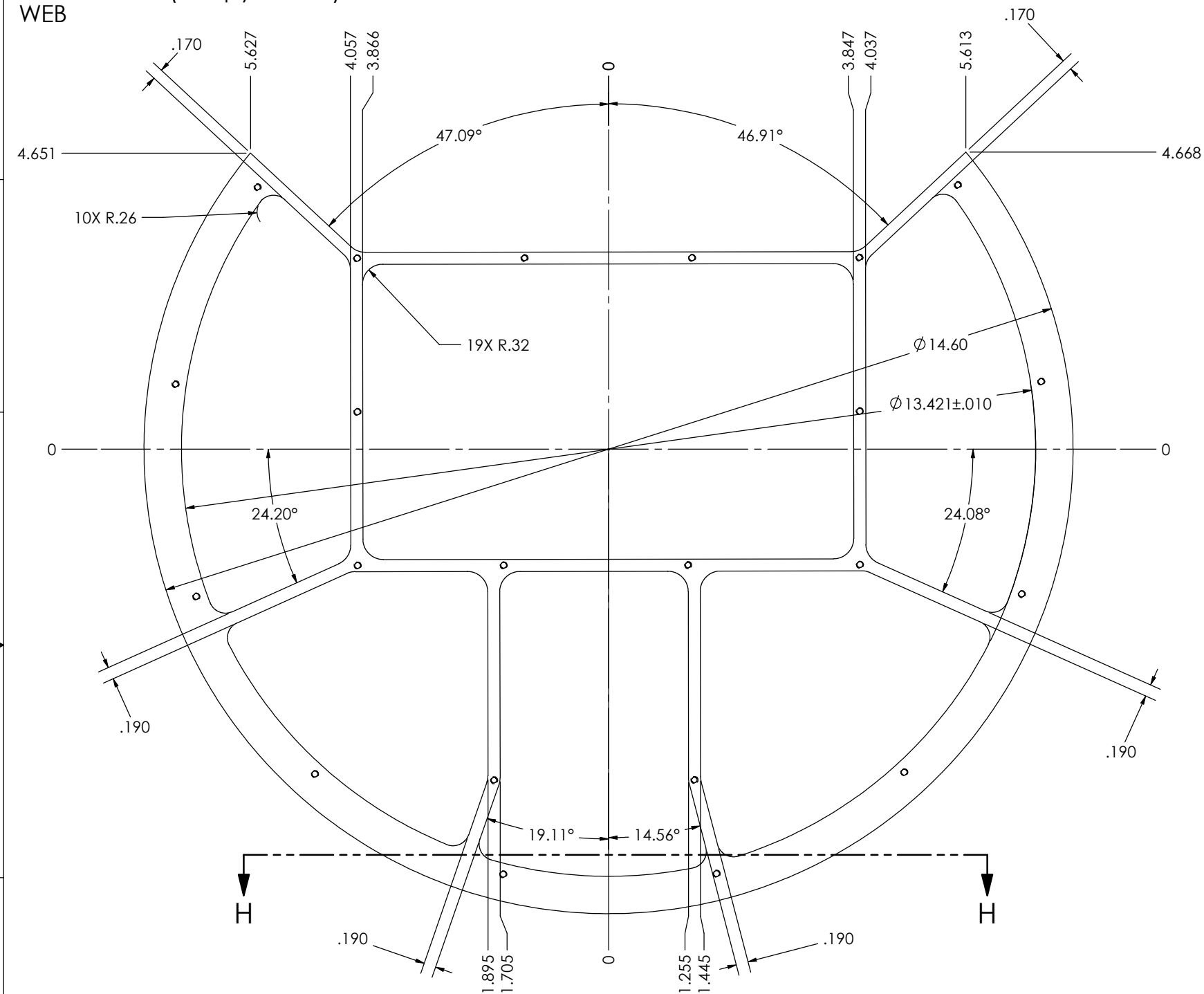
Material: 6061-T6 Aluminum

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1002330-003	Rotary valve mount (vert.)	1
2	1002330-004	PVR Mount	1

BILL OF MATERIALS				last updated on: Thursday, February 12, 2009 10:21:10 AM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		2 PLACE DIM $\pm .01$	3 PLACE DIM $\pm .005$	4 PLACE DIM $\pm .0005$	ANGLES $\pm 1^\circ$
Shop Foreman		1. DIMENSIONS ARE IN INCHES		ENGINEER Jason Feldman 831-775-1837	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING		CHECKED	
NEXT ASSY Description		3. REMOVE BURRS & SHARP EDGES .010 MAX		PROJECT NUMBER 701312.00	
NEXT ASSY Number		4. MACHINED FILLET RADII .000 TO .025		7700 Sandholdt Road Moss Landing, CA 95039	
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		miscellaneous mounting	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .003 INCHES FOR SINGLE SURFACE.		SIZE C	DWG. NO. 1002330
		7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED		REV. C	
DO NOT SCALE DRAWING		CAD FILE: X:\701312 ESP 2G\SolidWorks files\1002468 (lab stand)		SHEET 1 OF 9	

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1002330-006 (Sleepy Mount) WEB



SECTION H-H

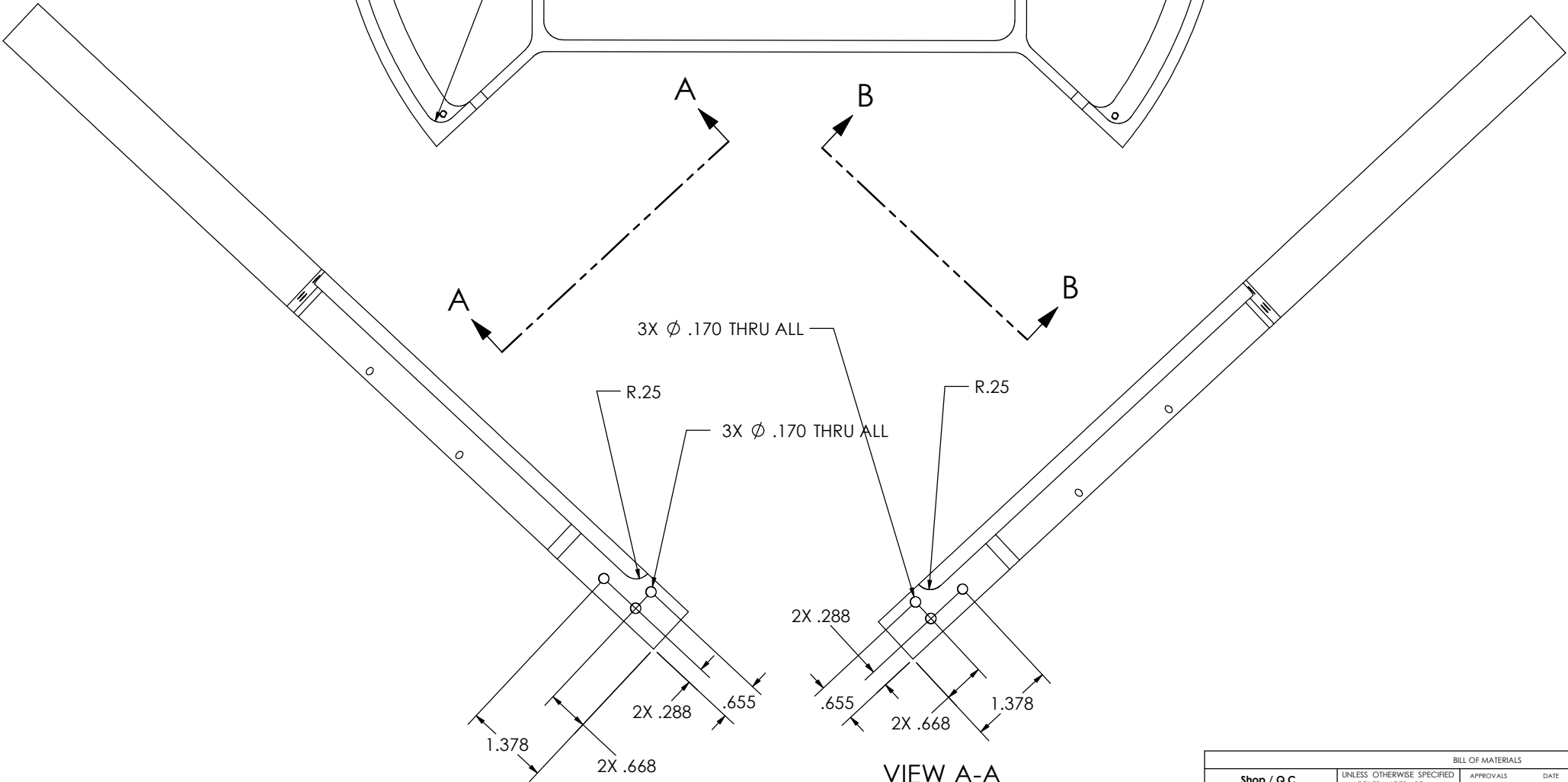
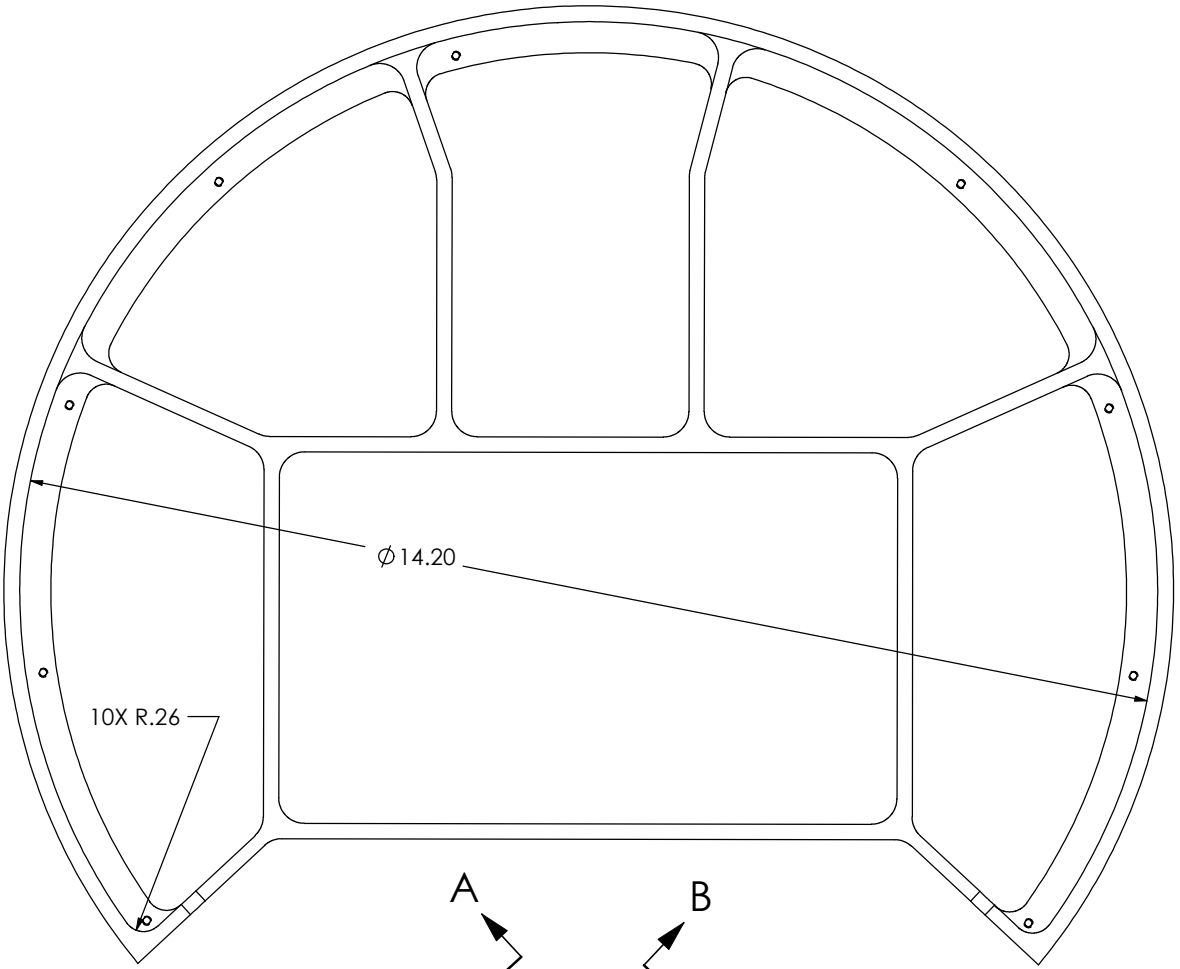
Material: 6061-T6 Aluminum

BILL OF MATERIALS					last updated on: Thursday, February 12, 2009 10:21:10 AM									
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS		DATE		Monterey Bay Aquarium Research Institute					
Inspector		2 PLACE DIM ±.01	3 PLACE DIM ±.005	4 PLACE DIM ±.0005	ENGINEER Jason Feldman 831-775-1837				7700 Sandholdt Road Moss Landing, CA 95039					
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .000 TO .025 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH MAX .003 INCHES FOR SINGLE SURFACE. 7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED			CHECKED									
Engineer					PROJECT NUMBER 701312.00		miscellaneous mounting							
NEXT ASSY Description	NEXT ASSY Number				PROJECT ESP 2G		SIZE C				DWG. NO. 1002330		REV. C	
DO NOT SCALE DRAWING														
CAD FILE: X:\701312 ESP 2G\SolidWorks files\1002468 (lab stand)					SHEET 2 OF 9									

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THRU HOLES (CLEARANCE)
1002330-006 (Sleepy Mount)

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



Material: 6061-T6 Aluminum

VIEW B-B

VIEW A-A

BILL OF MATERIALS			
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED	APPROVALS
Inspector		TOLERANCES ARE: FRACTIONS DECIMALS ANGLES 1/16 .001 .01	DATE
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LINES HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADIUS .015-.030.	ENGINEER Jason Feldman 831-775-1837
Engineer		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCERNING WITHIN .005 PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .015 INCHES FOR SINGLE SURFACE.	CHECKED
NEXT ASSY Description	NEXT ASSY Number	PROJECT NO. 701212.00	PROJECT NAME ESP 2G
APPLICATION	DO NOT SCALE DRAWING	WEIGHT	SCALE
		DO NOT SCALE DRAWING	SCALE

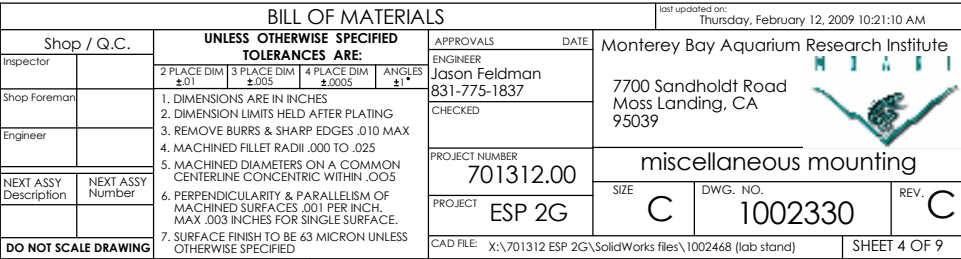
Monterey Bay Aquarium Research Institute
MBARI
7700 Sandholdt Rd.
Moss Landing, CA 95039
Ph: (831) 775-1700



Miscellaneous Mounting
DWG. NO. 1002330
REV. C

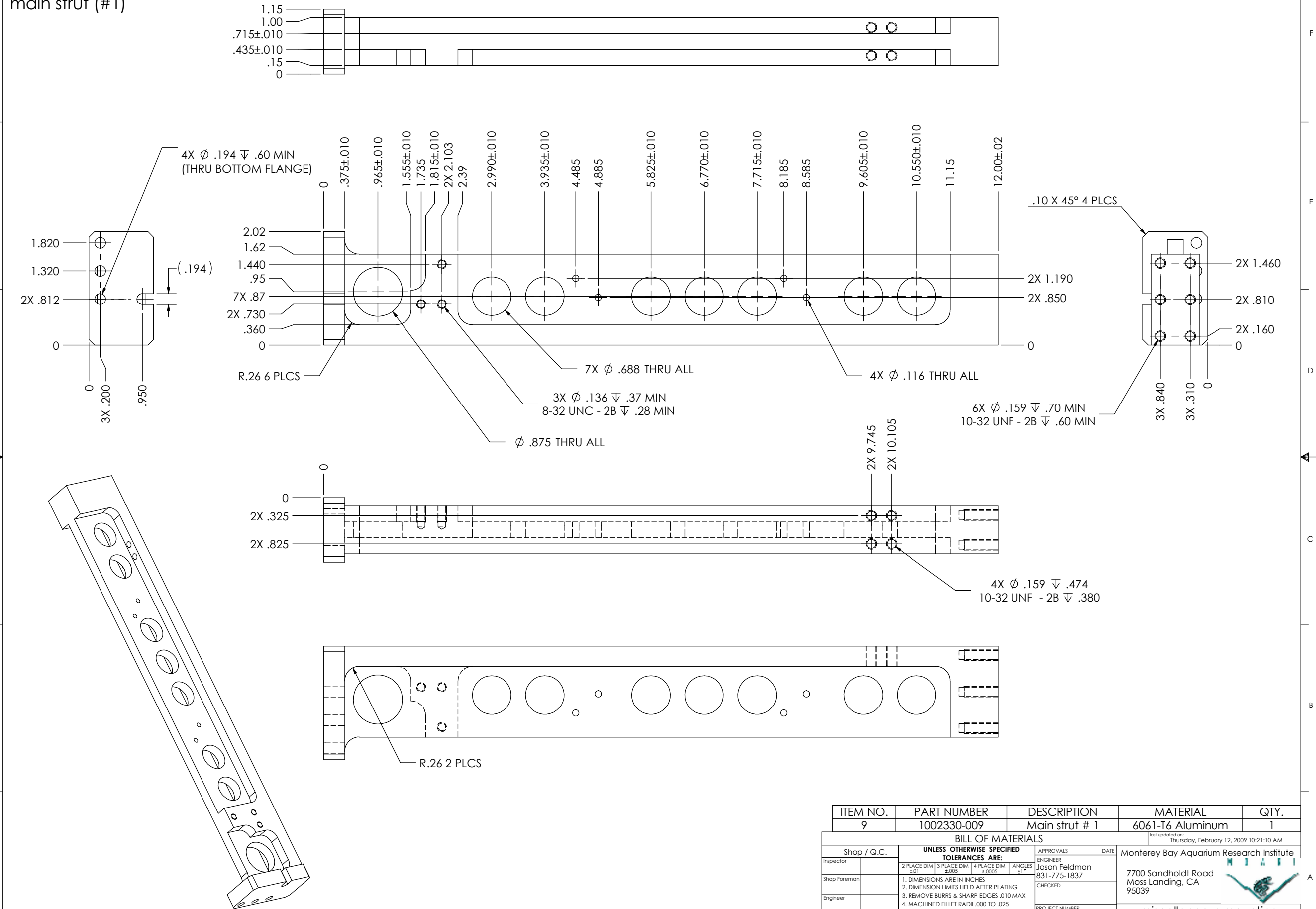
SCALE CAD. FILE SHEET 5 OF 10

TAPPED HOLES (THRU & BLIND)
1002330-006 (Sleepy Mount)



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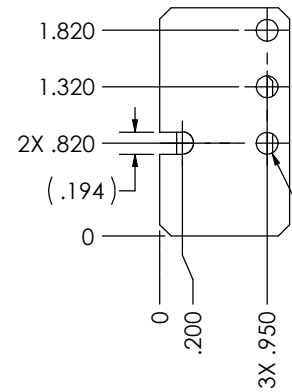
1002330-009
main strut (#1)



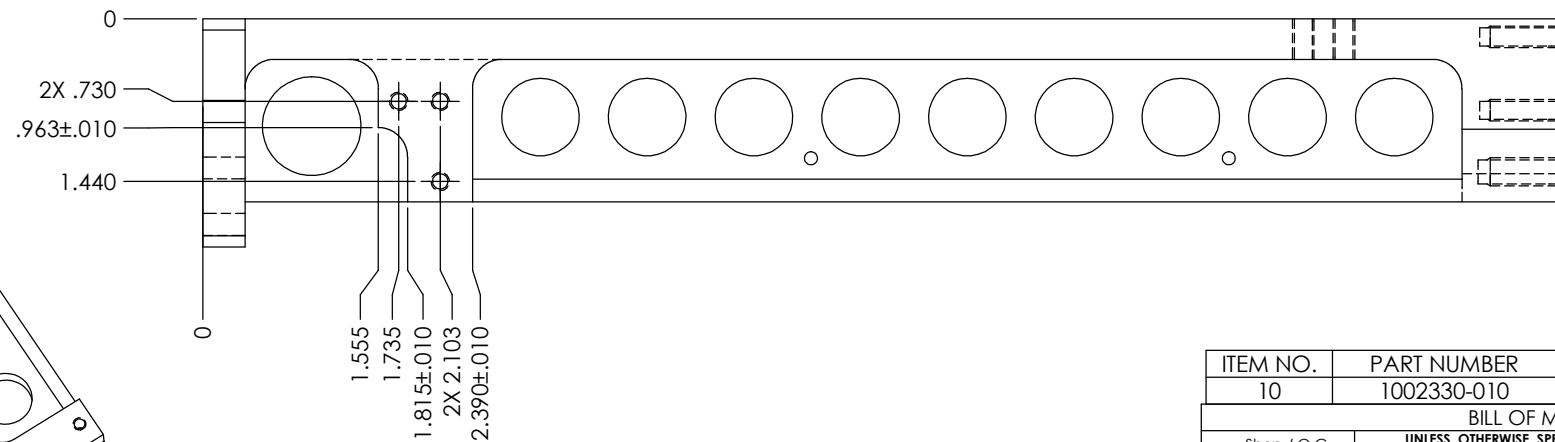
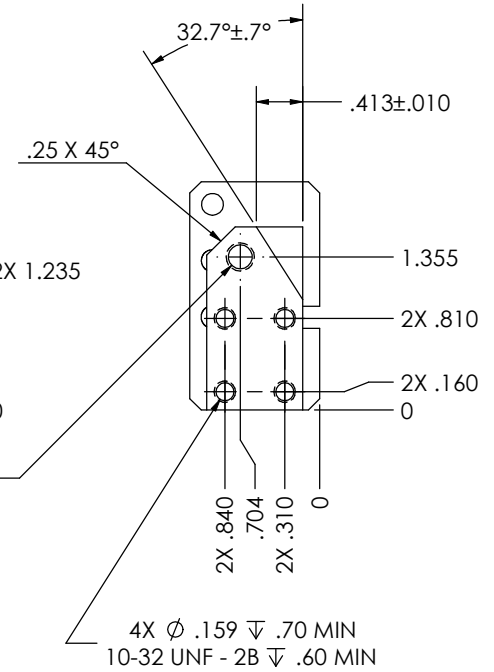
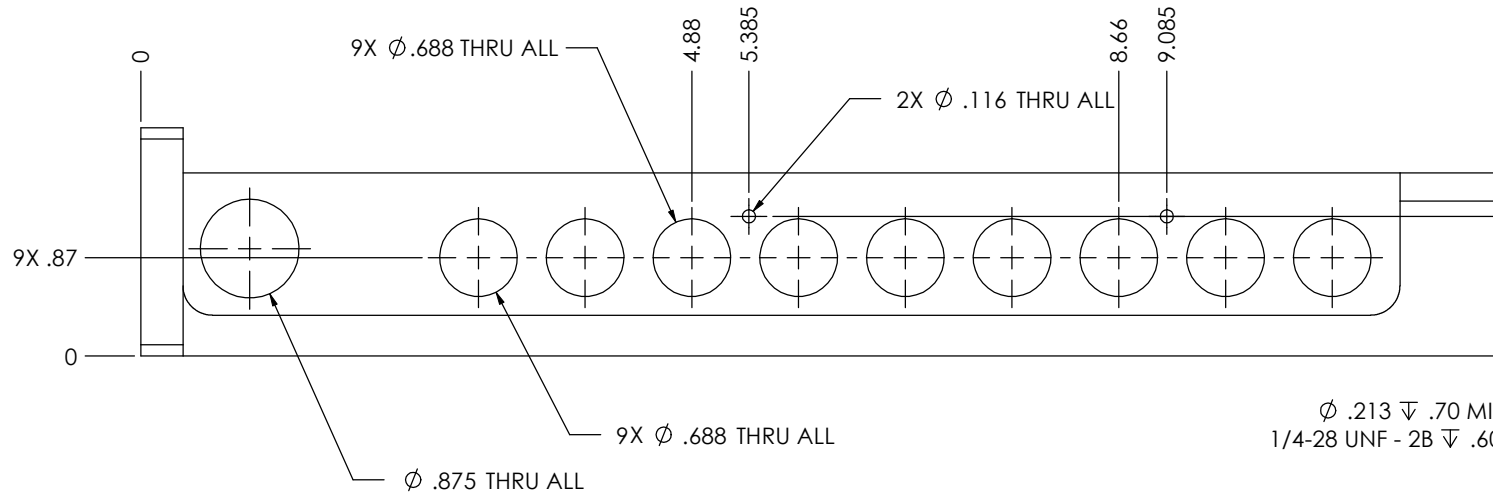
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
9	1002330-009	Main strut # 1	6061-T6 Aluminum	1
BILL OF MATERIALS			last approved on Thursday, February 12, 2009 10:21:10 AM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		
Inspector		APPROVALS DATE Monterey Bay Aquarium Research Institute		
		ENGINEER Jason Feldman		
Shop Foreman		831-775-1837		
		CHECKED		
Engineer		7700 Sandholdt Road Moss Landing, CA 95039		
		PROJECT NUMBER miscellaneous mounting		
		701312.00		
NEXT ASSY Description	NEXT ASSY Number	SIZE DWG. NO. REV.		
		C 1002330 C		
DO NOT SCALE DRAWING		CAD FILE: X:\701312 ESP 2G\SolidWorks files\1002468 (lab stand)		
		SHEET 5 OF 9		

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1002330-010
main strut (#2)



4X ϕ .194 ∇ .60 MIN
(THRU BOTTOM FLANGE)

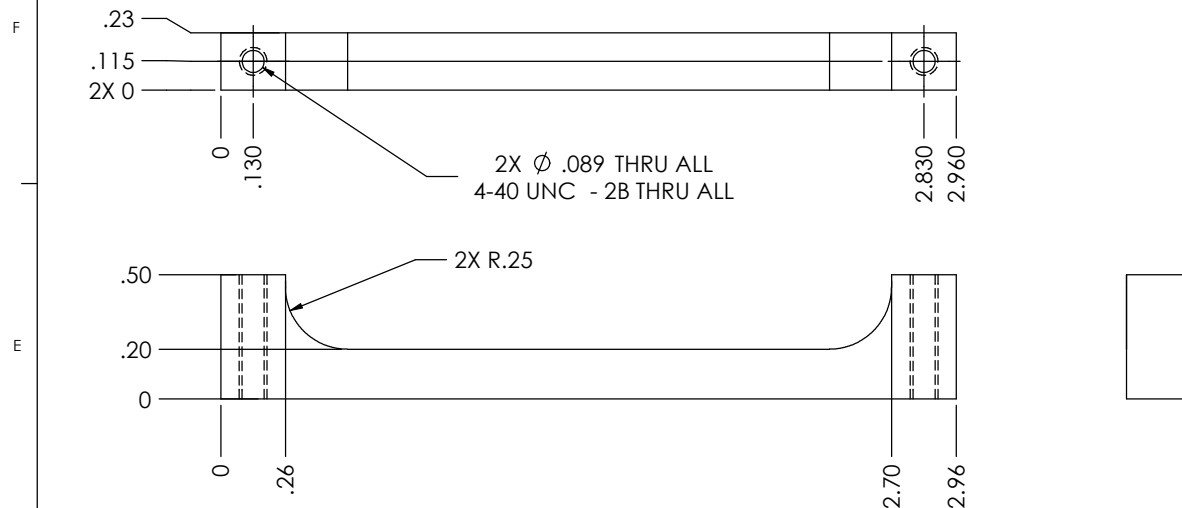


ALL OTHER DIMENSIONS TO FOLLOW
PART #1002330-009 (sheet 7)

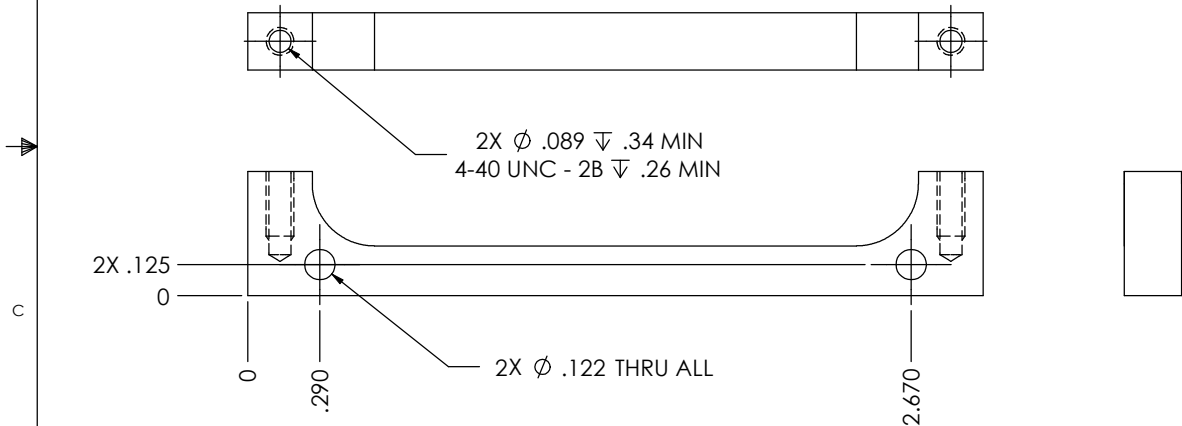
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
10	1002330-010	Main strut #2	6061-T6 Aluminum	1
BILL OF MATERIALS				
last updated on: Thursday, February 12, 2009 10:21:10 AM				
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		
Inspector		2 PLACE DIM $\pm$.01	3 PLACE DIM $\pm$.005	4 PLACE DIM $\pm$.0005
Shop Foreman		ANGLES $\pm$ 1°	APPROVALS DATE	
Engineer		1. DIMENSIONS ARE IN INCHES		ENGINEER Jason Feldman
		2. DIMENSION LIMITS HELD AFTER PLATING		831-775-1837
		3. REMOVE BURRS & SHARP EDGES .010 MAX		CHECKED
		4. MACHINED FILLET RADII .000 TO .025		PROJECT NUMBER 701312.00
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		SIZE C
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH MAX .003 INCHES FOR SINGLE SURFACE.		DWG. NO. 1002330
		7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED		REV. C
DO NOT SCALE DRAWING		CAD FILE: X:\701312 ESP 2G\SolidWorks files\1002468 (lab stand)		SHEET 6 OF 9

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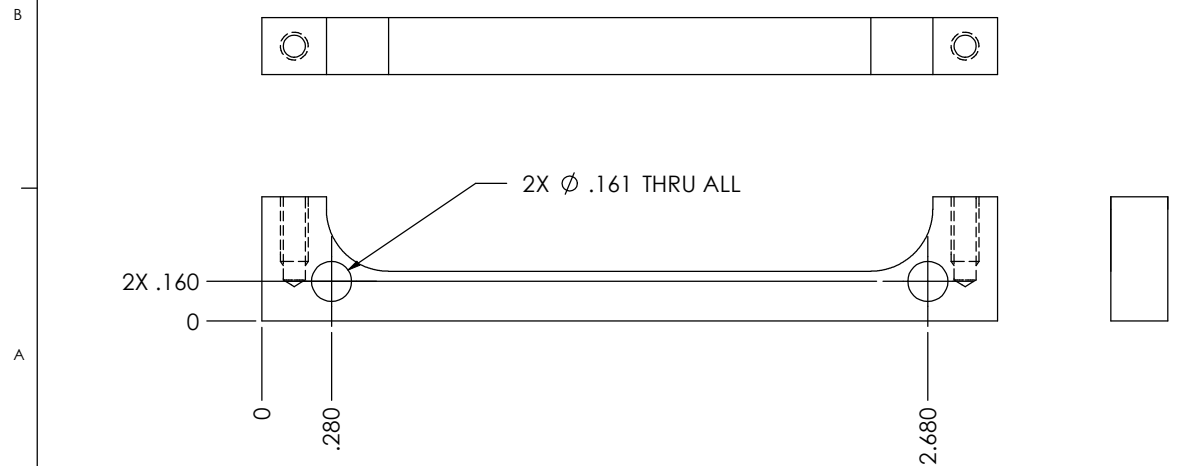
1002330-011 bracket-processing



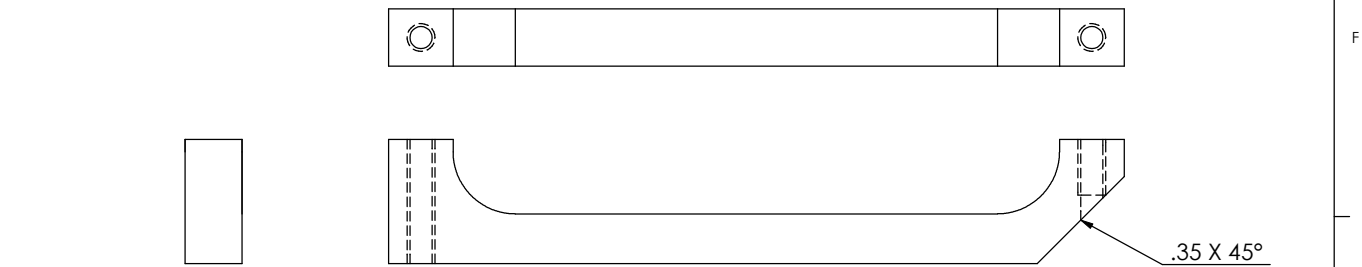
1002330-013 bracket-collection



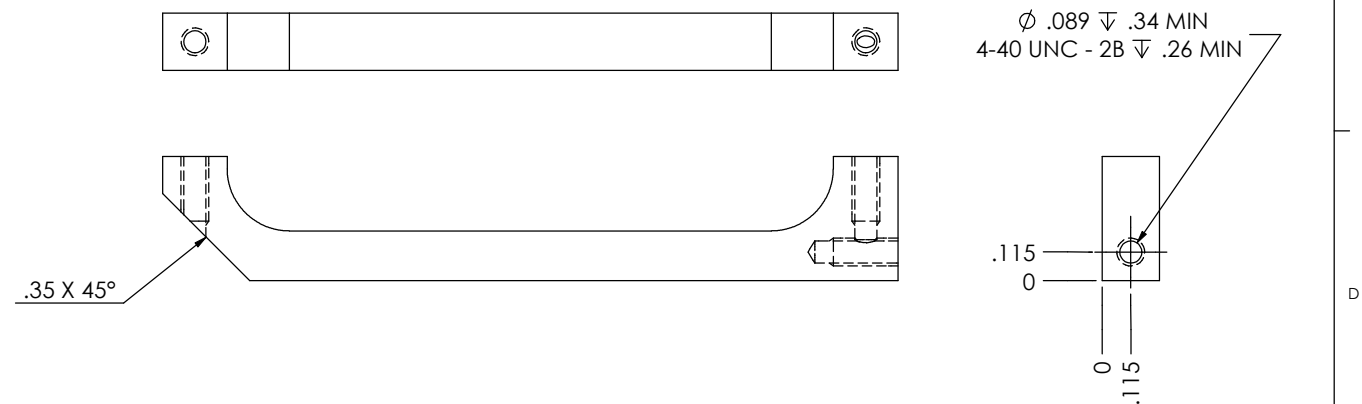
1002330-015 bracket-manipulator (clearance)



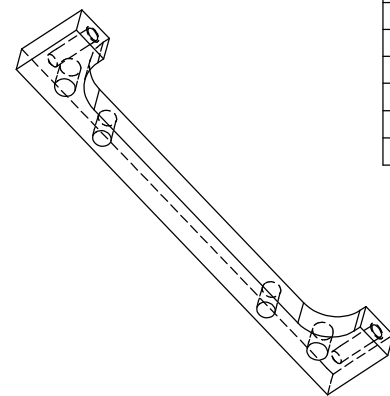
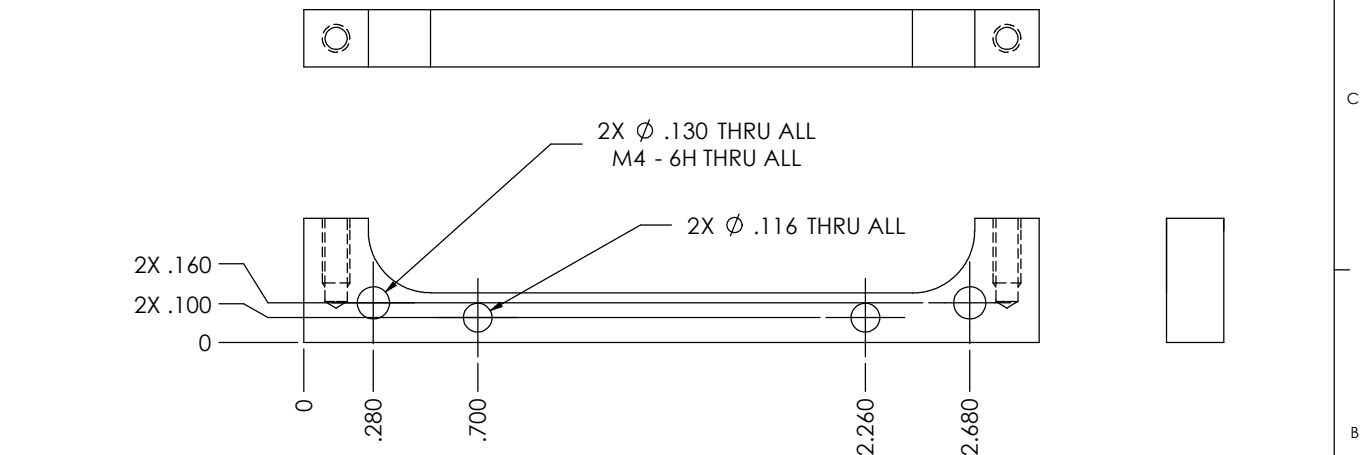
1002330-012 bracket-carousel & elevator



1002330-014 bracket-sample syringe



1002330-016 bracket-manipulator

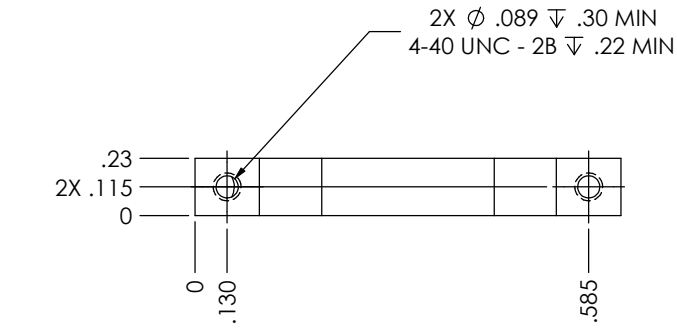


ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
11	1002330-011	processing	6061-T6 Aluminum	2
12	1002330-012	carousel & elevator	6061-T6 Aluminum	2
13	1002330-013	collection	6061-T6 Aluminum	2
14	1002330-014	sample syringe	6061-T6 Aluminum	2
15	1002330-015	manipulator (clearance)	6061-T6 Aluminum	1
16	1002330-016	manipulator	6061-T6 Aluminum	1

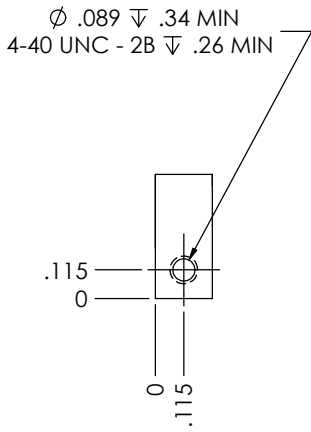
BILL OF MATERIALS						Last updated on: Thursday, February 12, 2009 10:21:10 AM				
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS DATE		Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039 		
Inspector		2 PLACE DIM ±.01	3 PLACE DIM ±.005	4 PLACE DIM ±.0005	ANGLES ±1°	ENGINEER Jason Feldman 831-775-1837	CHECKED			
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .000 TO .025 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .003 INCHES FOR SINGLE SURFACE. 7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED				PROJECT NUMBER 701312.00		miscellaneous mounting		
Engineer						PROJECT ESP 2G		SIZE C		DWG. NO. 1002330
NEXT ASSY Description	NEXT ASSY Number	DO NOT SCALE DRAWING				CAD FILE: X:\701312 ESP 2G\SolidWorks files\1002468 (lab stand)				SHEET 7 OF 9

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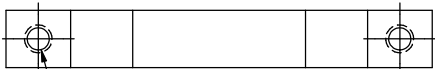
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
D6	C	Extended length from 3.000	01/30/07	Michael Parker
B6	C	Added CTV Mount	3/27/07	Michael Parker



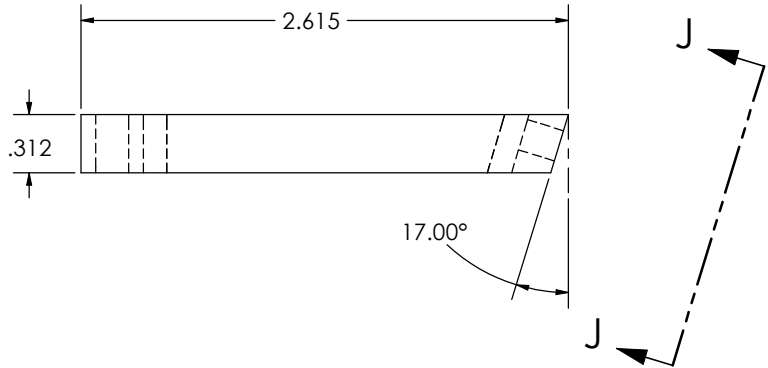
1002330-017
bracket - collection thermal



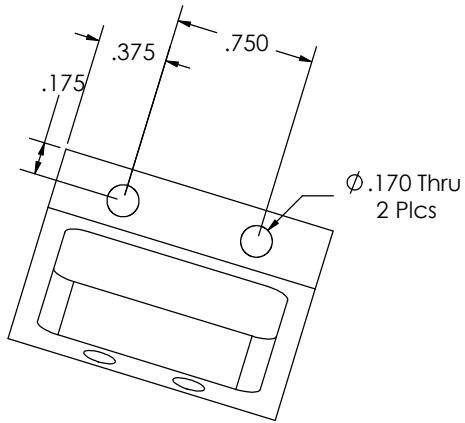
2X Ø .089 THRU ALL
4-40 UNC - 2B THRU ALL



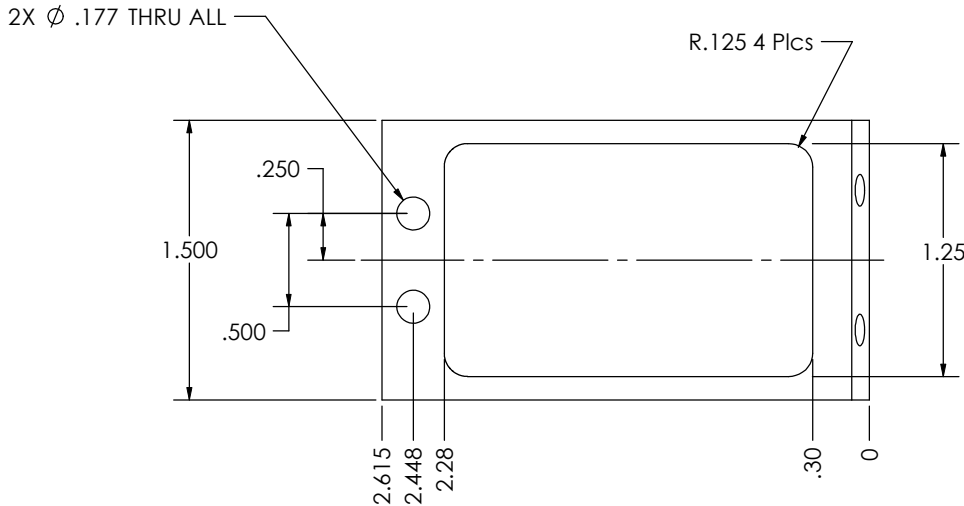
1002330-018
bracket - procesing thermal



1002330-019 CTV Bracket



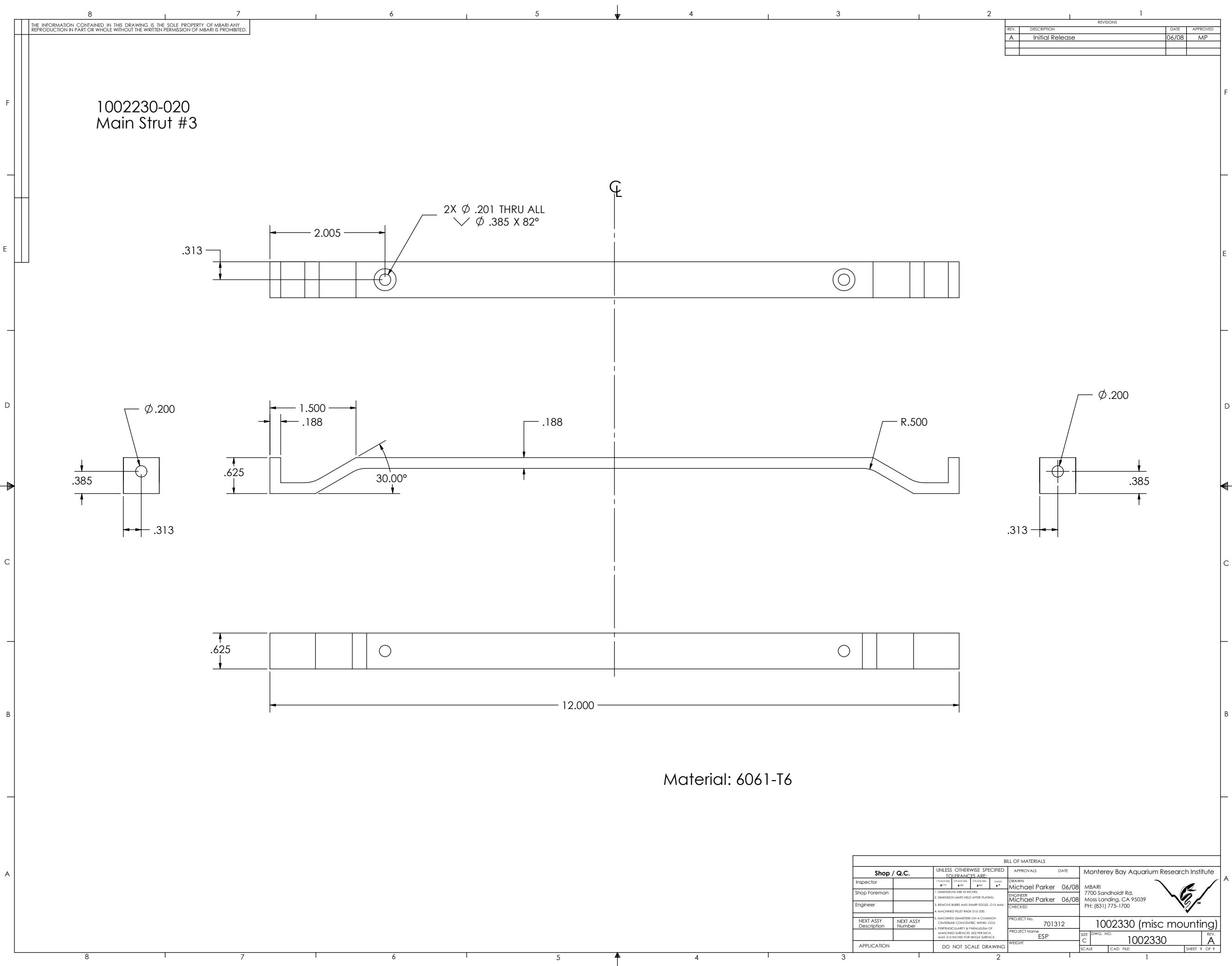
VIEW J-J
SCALE 3 : 2



PART NUMBER	DESCRIPTION	MATERIAL	QTY.
1002330-019	bracket - CTV	6061-T6 Aluminum	1
1002330-017	bracket - collection thermal	6061-T6 Aluminum	2
1002330-018	bracket - processing thermal	6061-T6 Aluminum	2

BILL OF MATERIALS				last updated on: Thursday, February 12, 2009 10:21:10 AM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS	
Inspector		2 PLACE DIM ±.01	3 PLACE DIM ±.005	ENGINEER Jason Feldman 831-775-1837	DATE
Shop Foreman		4 PLACE DIM ±.0005	ANGLES ±1°	CHECKED	
Engineer		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .000 TO .025 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH MAX .003 INCHES FOR SINGLE SURFACE. 7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED			
NEXT ASSY Description	NEXT ASSY Number	PROJECT ESP 2G		PROJECT NUMBER 701312.00	
DO NOT SCALE DRAWING		CAD FILE: X:\701312 ESP 2G\SolidWorks files\1002468 (lab stand)		SHEET 8 OF 9	





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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	Initial Release	06/08	MP

BILL OF MATERIALS												
Shop / Q.C.			UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		Monterey Bay Aquarium Research Institute 	
Inspector			FRACTION	DECIMAL	ANGLES	ANGLE	DRAWN					
Shop Foreman			1. DIMENSIONS ARE IN INCHES.				Michael Parker	06/08	MBARI			
Engineer			2. DIMENSION LINES HELD AFTER PLATING.				ENGINEER					
			3. REMOVE BURRS AND SHARP EDGES .015 MAX.				Michael Parker	06/08	7700 Sandholdt Rd.			
			4. MACHINED FILLET RADIUS .015-.030.				CHECKED			Moss Landing, CA 95039		
			5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCERNING WITHIN .005.				PROJECT NO.	701312		1002330 (misc mounting)		
NEXT ASSY Description		NEXT ASSY Number	6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .015 INCHES FOR SINGLE SURFACE.				PROJECT NAME	ESP		SIZE C	DWG. NO. 1002330	REV. A
APPLICATION			DO NOT SCALE DRAWING				WEIGHT			SCALE	CAD FILE	SHEET 9 OF 9