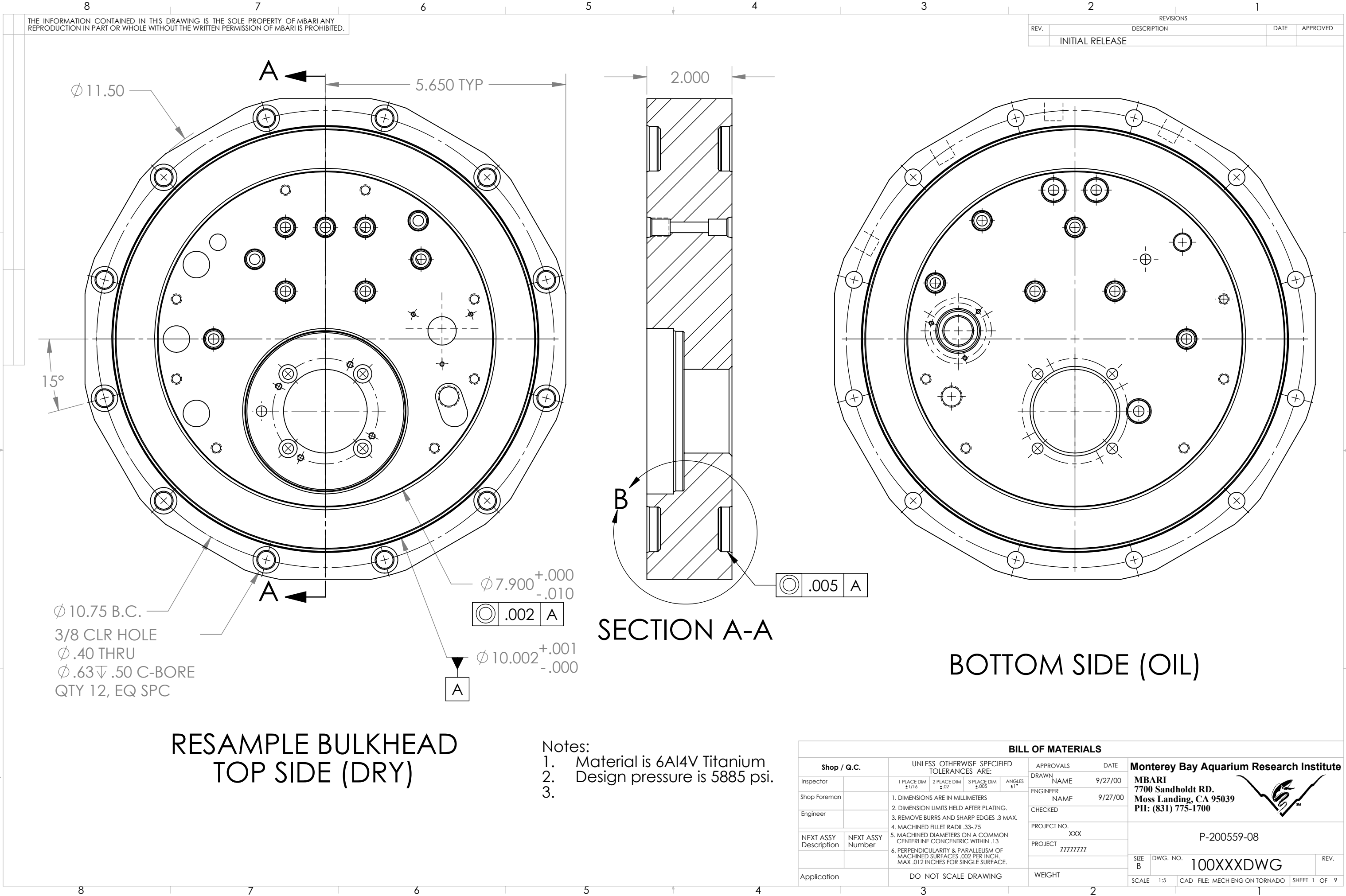
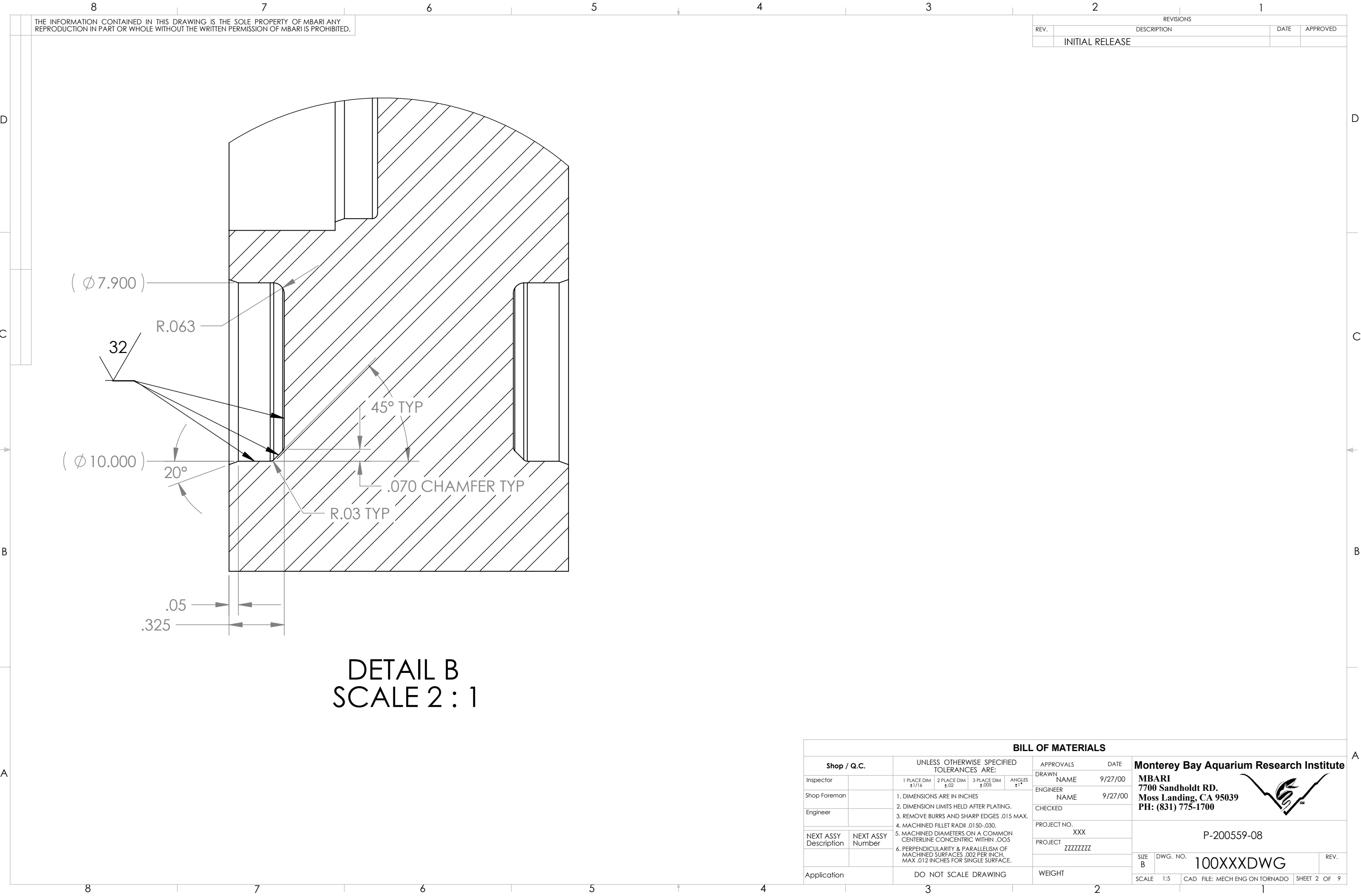
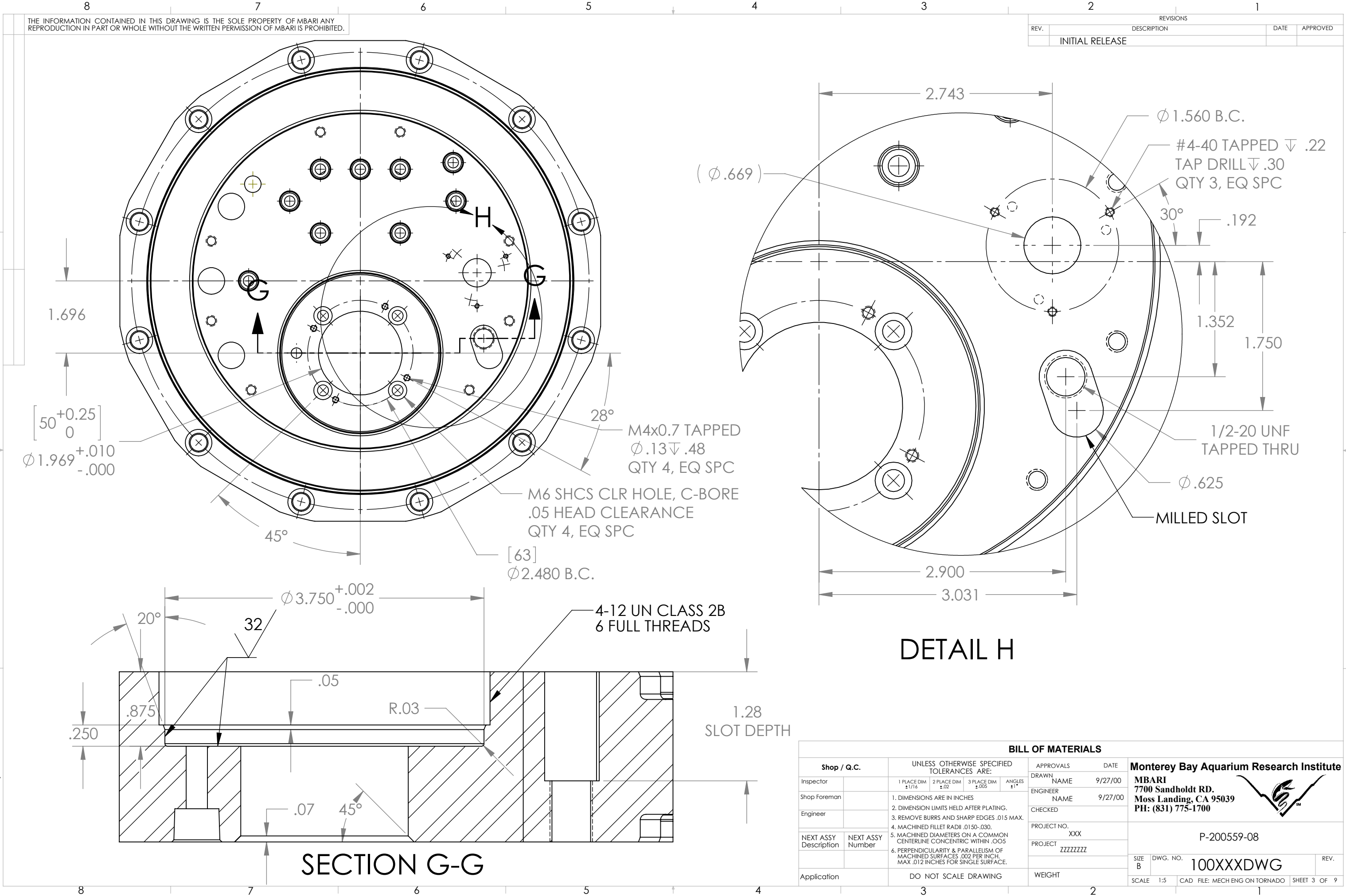








8 7

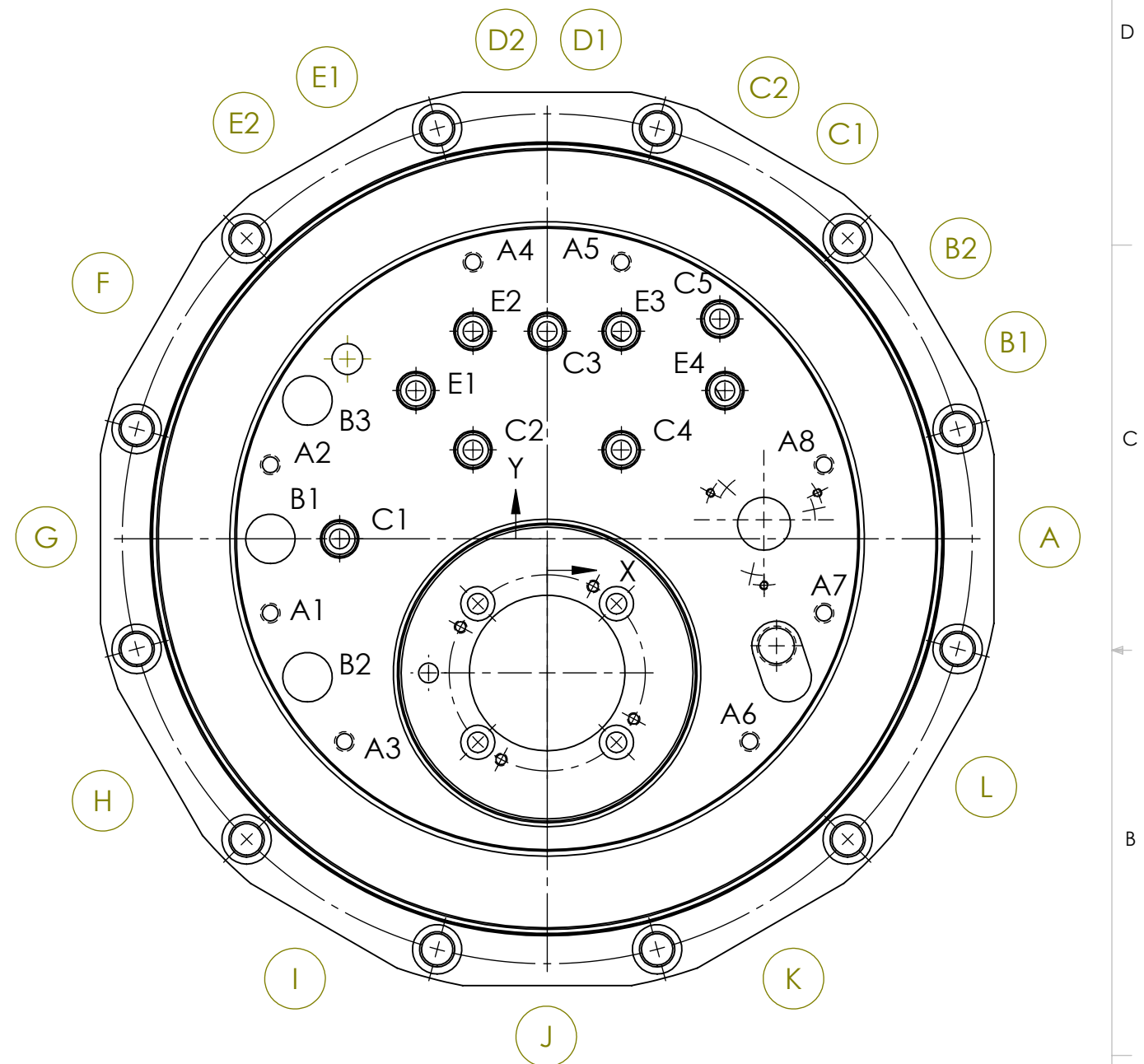
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REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.

2		1	
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		

Hole Table				
TAG	X LOC	Y LOC	SIZE	CONNECTING PORTS
A1	-3.501	-.938	1/4-20 TAPPED .38 DEEP	
A2	-3.501	.938	1/4-20 TAPPED .38 DEEP	
A3	-2.563	-2.563	1/4-20 TAPPED .38 DEEP	
A4	-.938	3.501	1/4-20 TAPPED .38 DEEP	
A5	.938	3.501	1/4-20 TAPPED .38 DEEP	
A6	2.563	-2.563	1/4-20 TAPPED .38 DEEP	
A7	3.501	-.938	1/4-20 TAPPED .38 DEEP	
A8	3.501	.938	1/4-20 TAPPED .38 DEEP	
B1	-3.500	.000	Ø.625 ∇ 1.28	SIDE G
B2	-3.031	-1.750	Ø.625 ∇ 1.28	SIDE H
B3	-3.031	1.750	Ø.625 ∇ 1.28	SIDE F
C1	-2.625	.000	SAE #4 PORT Ø.25 ∇ 1.00	BOTTOM E5
C2	-.938	1.125	SAE #4 PORT Ø.25 ∇ 1.00	BOTTOM E4
C3	.000	2.625	SAE #4 PORT Ø.25 ∇ 1.00	BOTTOM E3
C4	.938	1.125	SAE #4 PORT Ø.25 ∇ 1.00	BOTTOM E2
C5	2.183	2.781	SAE #4 PORT Ø.25 ∇ 1.00	BOTTOM E1, SIDE C1
E1	-1.660	1.875	SAE #4 PORT Ø.25 ∇ 1.00	BOTTOM H1, SIDE E2
E2	-.938	2.625	SAE #4 PORT Ø.25 ∇ 1.00	SIDE E1
E3	.938	2.625	SAE #4 PORT Ø.25 ∇ 1.00	SIDE C2
E4	2.248	1.875	SAE #4 PORT Ø.25 ∇ 1.00	SIDE B2

NOTES:

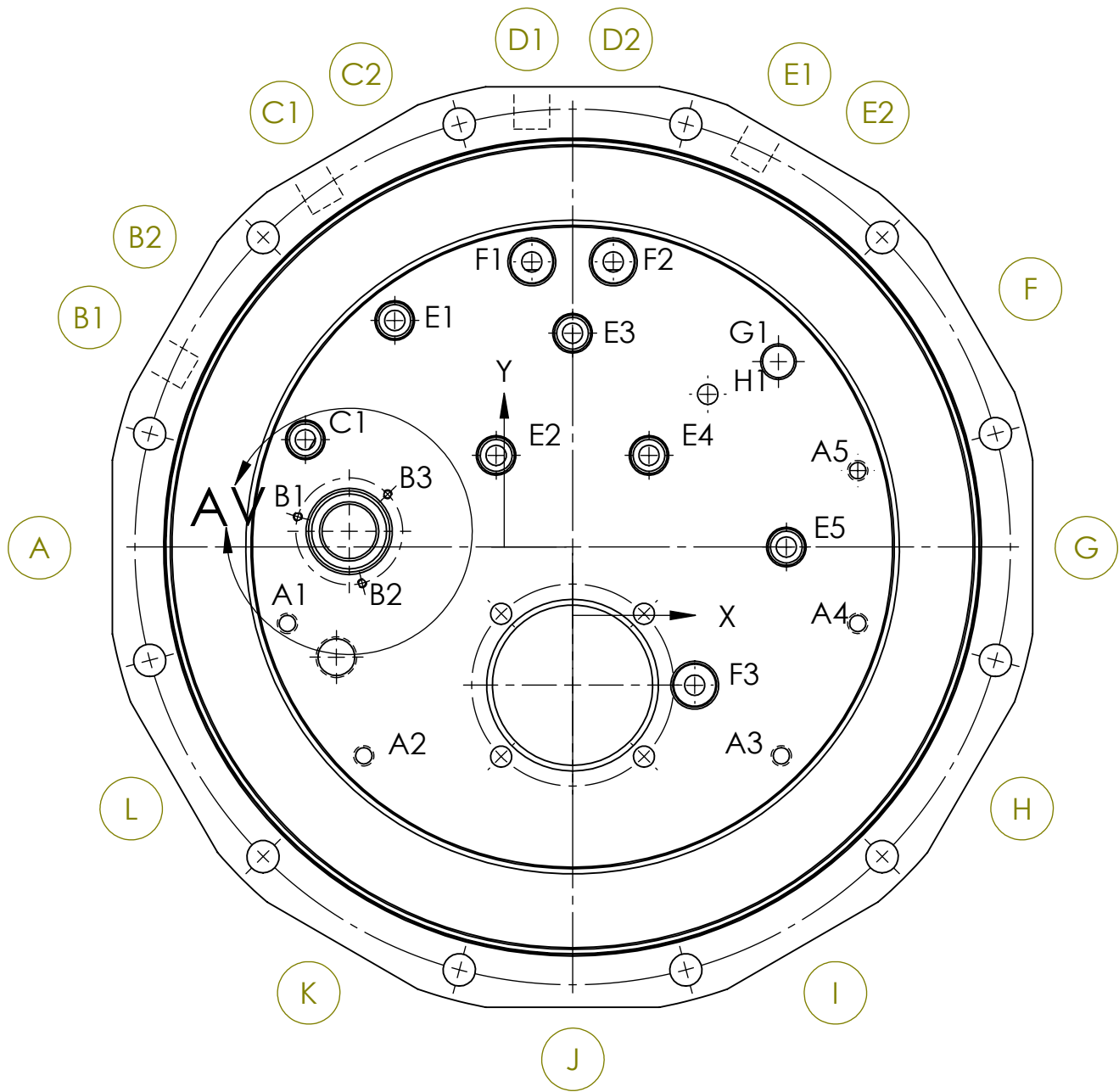
1. PORT SHALL BE CONCENTRIC WITHIN .015 OF THRU HOLE FROM BOTTOM SIDE
2. (XX) SIDE PORTS FOR REFERENCE



BILL OF MATERIALS											
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN	NAME	9/27/00			
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	NAME	9/27/00			
Engineer						CHECKED					
						PROJECT NO.			XXX		
NEXT ASSY Description	NEXT ASSY Number					PROJECT	ZZZZZZZZ			P-200559-08	
Application		DO NOT SCALE DRAWING				WEIGHT					
						SIZE B	DWG. NO.		100XXXDWG		REV.
						SCALE 1:5	CAD FILE: MECH ENG ON TORNADO		SHEET 4 OF 9		

	8	7	6	5	4	3	2	1
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.							
	TAG	X LOC	Y LOC	SIZE	CONNECTING PORTS			
	A1	-3.501	-.938	1/4-20 TAPPED .38 DEEP				
	A2	-2.563	-2.563	1/4-20 TAPPED .38 DEEP				
	A3	2.563	-2.563	1/4-20 TAPPED .38 DEEP				
	A4	3.501	-.938	1/4-20 TAPPED .38 DEEP				
	A5	3.501	.938	1/4-20 TAPPED .38 DEEP				
	B1	-3.374	.373	#4-40 TAPPED ∇ .22 TAP DRILL ∇ .30				
	B2	-2.585	-.445	#4-40 TAPPED ∇ .22 TAP DRILL ∇ .30				
	B3	-2.271	.648	#4-40 TAPPED ∇ .22 TAP DRILL ∇ .30				
	C1	-3.281	1.317	SAE #4 PORT $\varnothing$.25 ∇ 1.00	SIDE B1			
	E1	-2.183	2.781	SAE #4 PORT $\varnothing$.25 ∇ 1.00	TOP C5, SIDE C1			
	E2	-.938	1.125	SAE #4 PORT $\varnothing$.25 ∇ 1.00	TOP C4			
	E3	.000	2.625	SAE #4 PORT $\varnothing$.25 ∇ 1.00	TOP C3			
	E4	.938	1.125	SAE #4 PORT $\varnothing$.25 ∇ 1.00	TOP C2			
	E5	2.625	.000	SAE #4 PORT $\varnothing$.25 ∇ 1.00	TOP C1			
	F1	-.500	3.500	1/4-18 NPT PORT $\varnothing$.25 ∇ 1.00	SIDE D1			
	F2	.500	3.500	1/4-18 NPT PORT $\varnothing$.25 ∇ 1.00	SIDE D2			
	F3	1.500	-1.696	1/4-18 NPT PORT $\varnothing$.25 THRU HOLE				
	G1	2.527	2.275	7/16-20 TAPPED ∇ .88 TAP DRILL THRU				
	H1	1.660	1.875	$\varnothing$.25 ∇ 1.00	TOP E1, SIDE E2			

- NOTES:
- PORT SHALL BE CONCENTRIC WITHIN .015 OF THRU HOLE FROM TOP SIDE
 - XX SIDE PORTS FOR REFERENCE

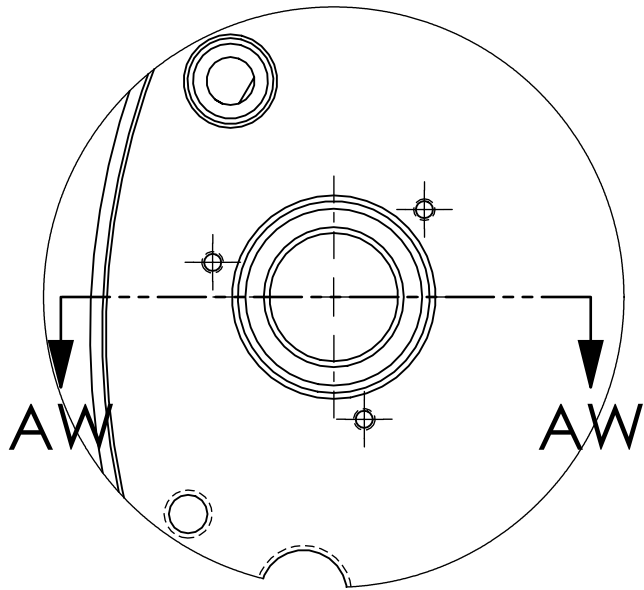
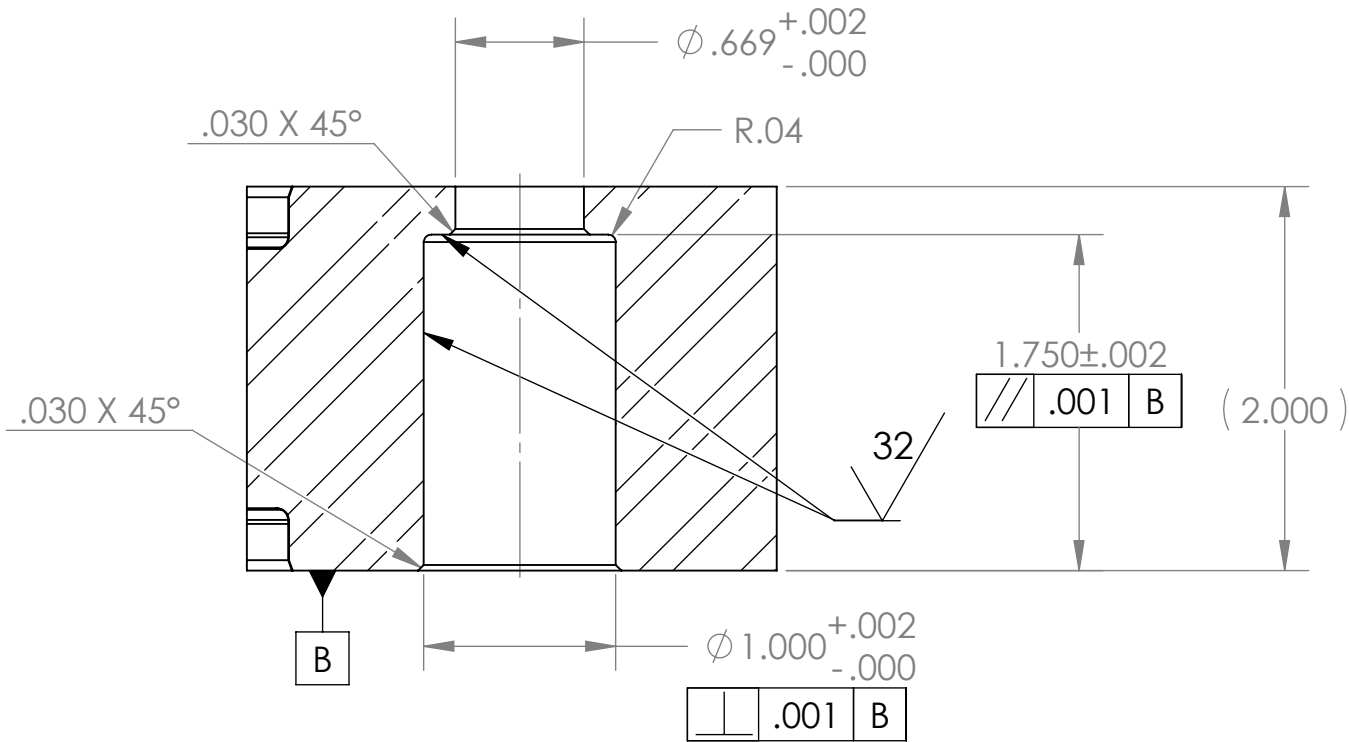


BOTTOM SIDE (OIL)

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	NAME	9/27/00		MBARI			
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	NAME	9/27/00		7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700			
Engineer						CHECKED							
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO.		XXX		P-200559-08			
						PROJECT		ZZZZZZZZ					
Application		DO NOT SCALE DRAWING				WEIGHT				SIZE B			
		3				2		SCALE 1:4		DWG. NO. 100XXXDWG			
								CAD FILE: MECH ENG ON TORNADO		REV.			
								SHEET 5 OF 9		1			

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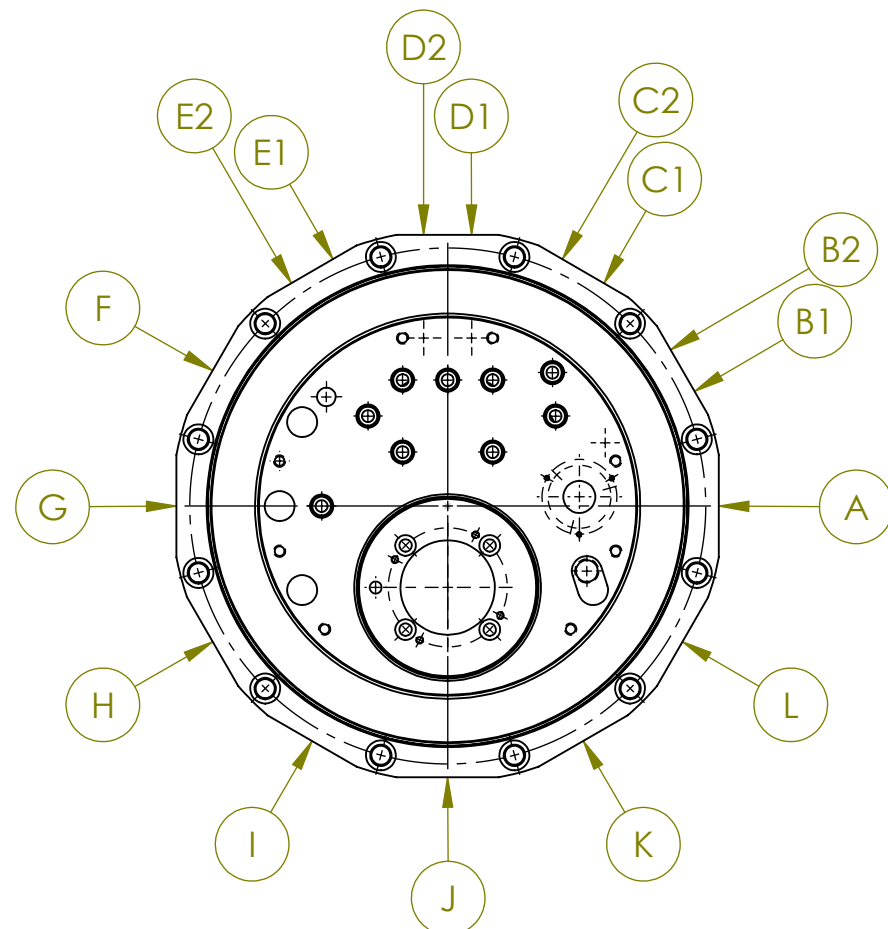
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		



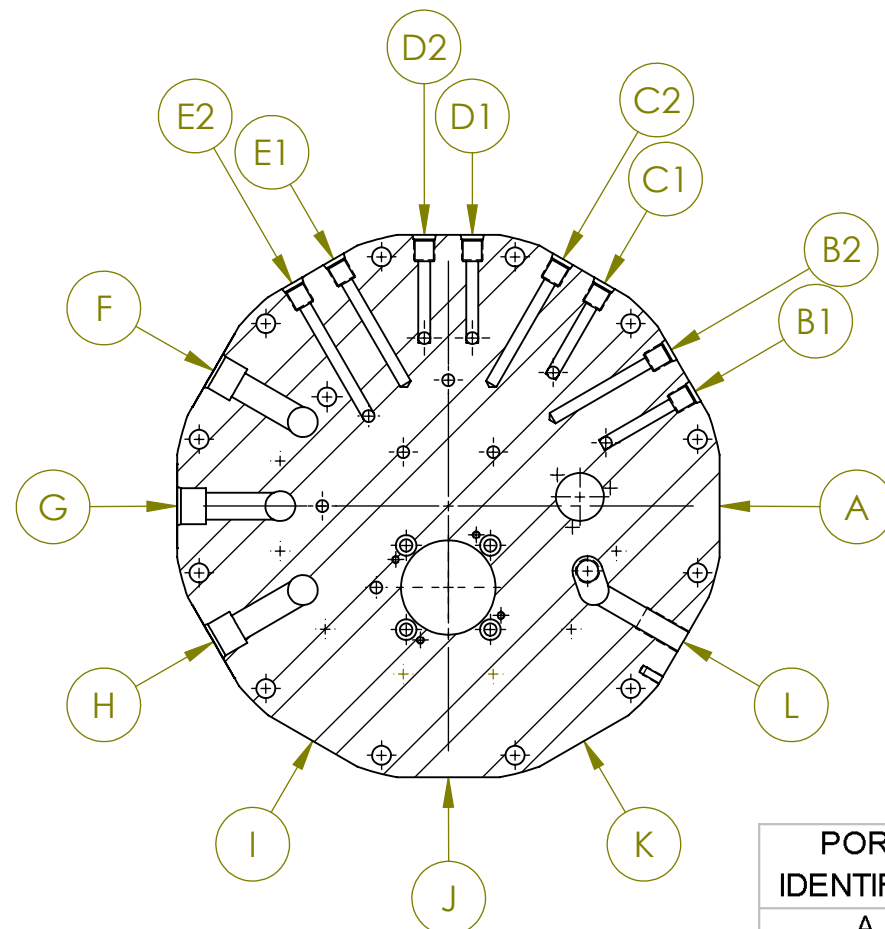
BILL OF MATERIALS									
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS	DATE	Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700	
Inspector		1 PLACE DIM $\pm 1/16$	2 PLACE DIM $\pm .02$	3 PLACE DIM $\pm .005$	ANGLES $\pm 1^\circ$	DRAWN	NAME 9/27/00		
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	NAME 9/27/00		
Engineer						CHECKED			
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO.	XXX	P-200559-08	
						PROJECT	ZZZZZZZZ		
Application		DO NOT SCALE DRAWING				WEIGHT		SIZE B	DWG. NO. 100XXWDWG
								SCALE 1:4	CAD FILE: MECH ENG ON TORNADO SHEET 6 OF 9

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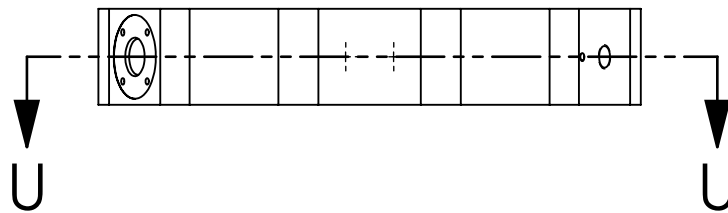
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		



TOP SIDE (DRY)



SECTION U-U



PORT IDENTIFIER	LABEL	DESCRIPTION	CENTER HOLE DIA	HOLE DEPTH	DETAIL
A	RESAMPLE	blank			
B1	B1	SAE #4	0.250	2.25	AC
B2	B2	SAE #4	0.250	2.85	AC
C1	C1	SAE #4	0.250	2.25	AC
C2	C2	SAE #4	0.250	3.00	AC
D1	D1	SAE #4	0.250	2.25	AC
D2	D2	SAE #4	0.250	2.25	AC
E1	E1	SAE #4	0.250	3.00	AC
E2	E2	SAE #4	0.250	3.30	AC
F	F	MINK FCR	0.563	2.15	AB
G	G	MINK FCR	0.563	2.15	AB
H	H	MINK FCR	0.563	2.15	AB
I		blank			
J		blank			
K		blank			
L	L	1/2-20 TAPPED	TAP DRILL	2.15	AE

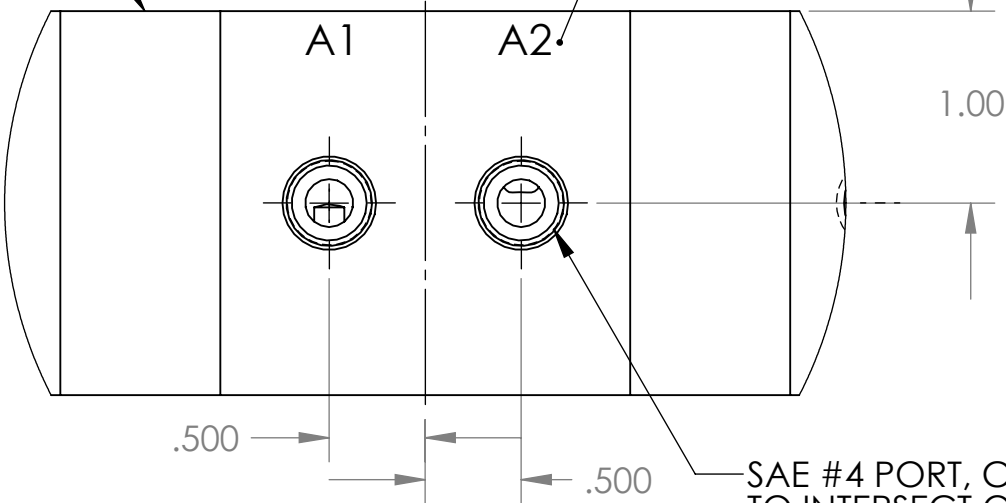
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030.			
Engineer		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.			
NEXT ASSY Description	NEXT ASSY Number	PROJECT NO. XXX PROJECT ZZZZZZZZ			
Application		DO NOT SCALE DRAWING			
		WEIGHT			
		SIZE B DWG. NO. 100XXXDWG REV.			
		SCALE 1:4 CAD FILE: MECH ENG ON TORNADO SHEET 7 OF 9			

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		

PLATE TOP
(DRY SIDE)

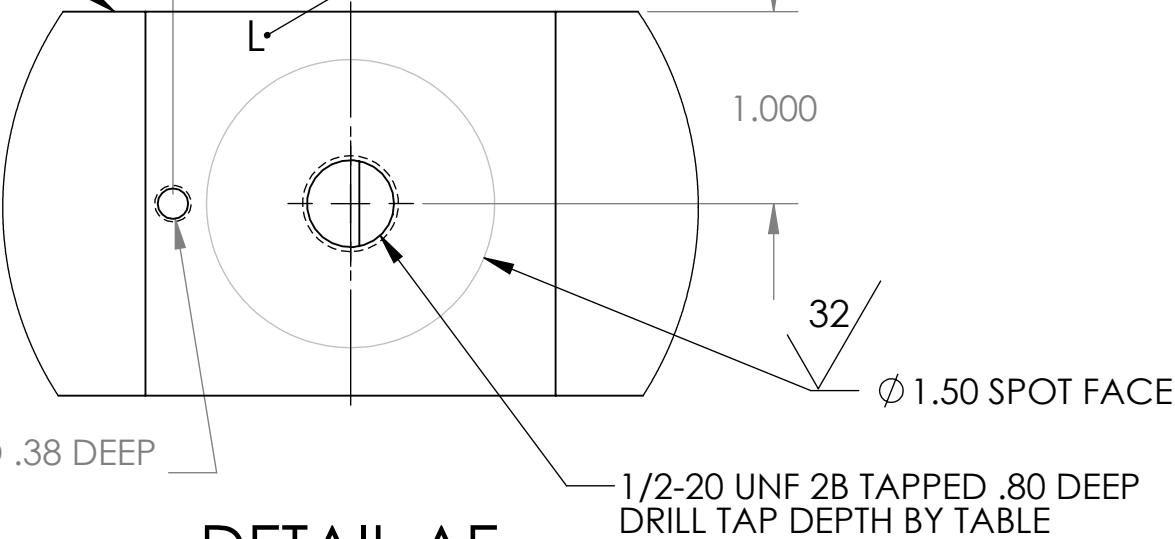
PORT IDENTIFIER
SEE TABLE



DETAIL AC
DUAL SAE #4 PORTS

PLATE TOP
(DRY SIDE)

PORT IDENTIFIER
SEE TABLE



DETAIL AE
SEACON 1/2-20 PORT

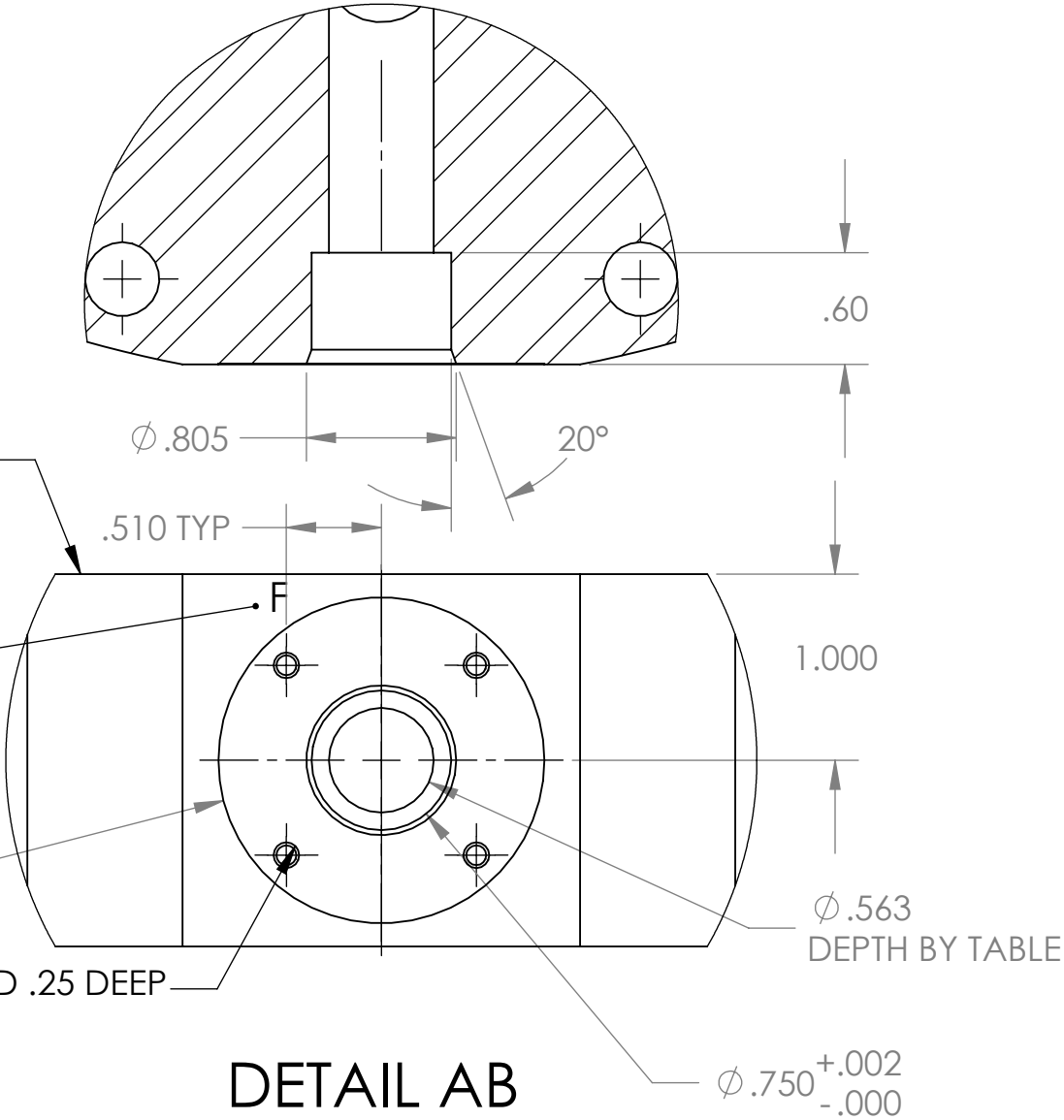
SECTION

PLATE TOP
(DRY SIDE)

PORT IDENTIFIER
SEE TABLE

Ø 1.750 SPOT FACE

#6-40 TAPPED .25 DEEP
TYP OF 4



DETAIL AB
MINK FCR PORT

NOTE: SEACON MOUNTING REQUIREMENTS
SUPERCEDE REFERENCED DIMESIONS

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	NAME	9/27/00	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	NAME	9/27/00		
Engineer						CHECKED				
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO.	XXX		P-200559-08	
						PROJECT	ZZZZZZZZ			
Application		DO NOT SCALE DRAWING				WEIGHT			SIZE B	DWG. NO. 100XXWDWG
								SCALE 1:4	CAD FILE: MECH ENG ON TORNADO	SHEET 8 OF 9