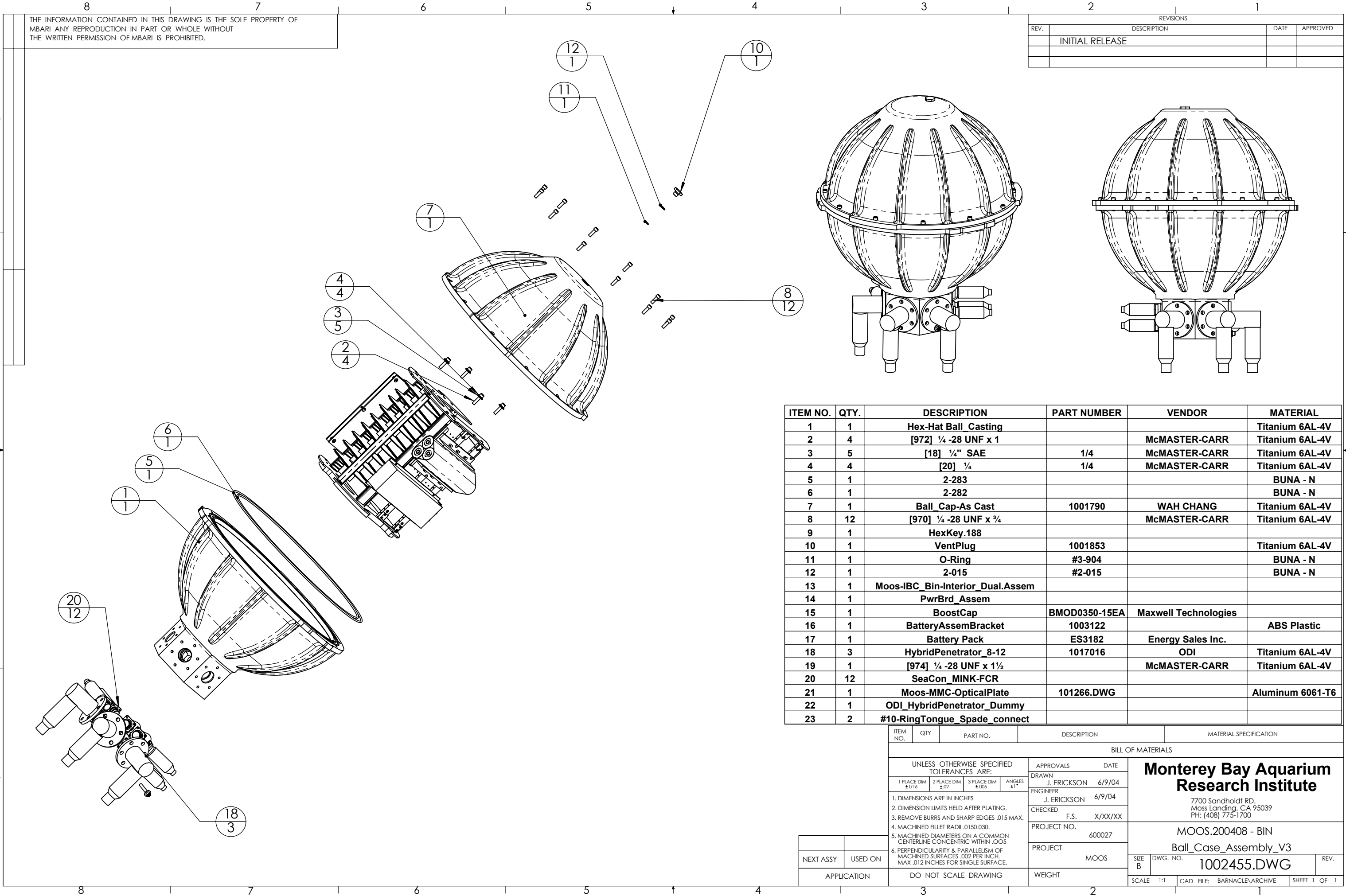


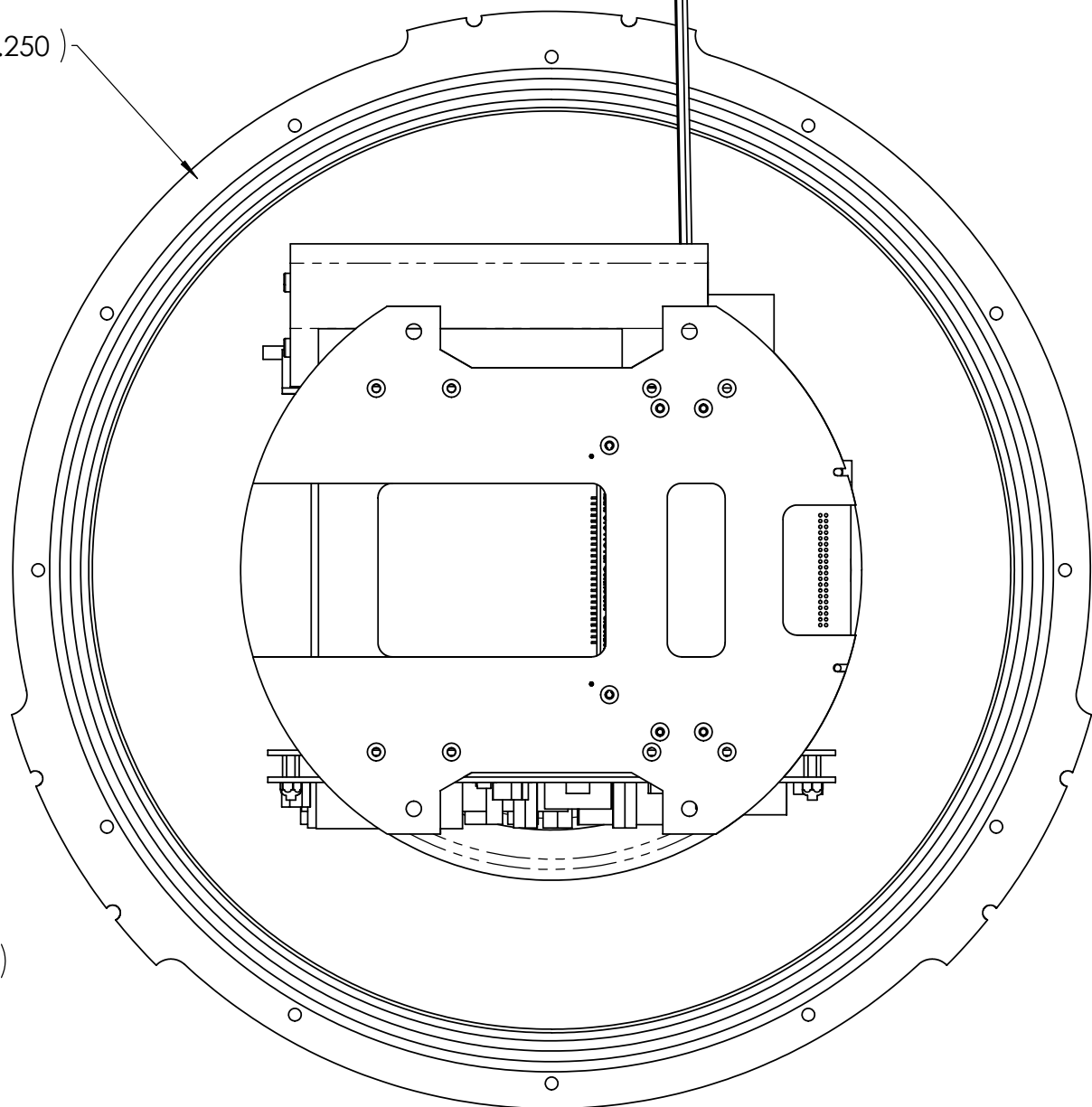
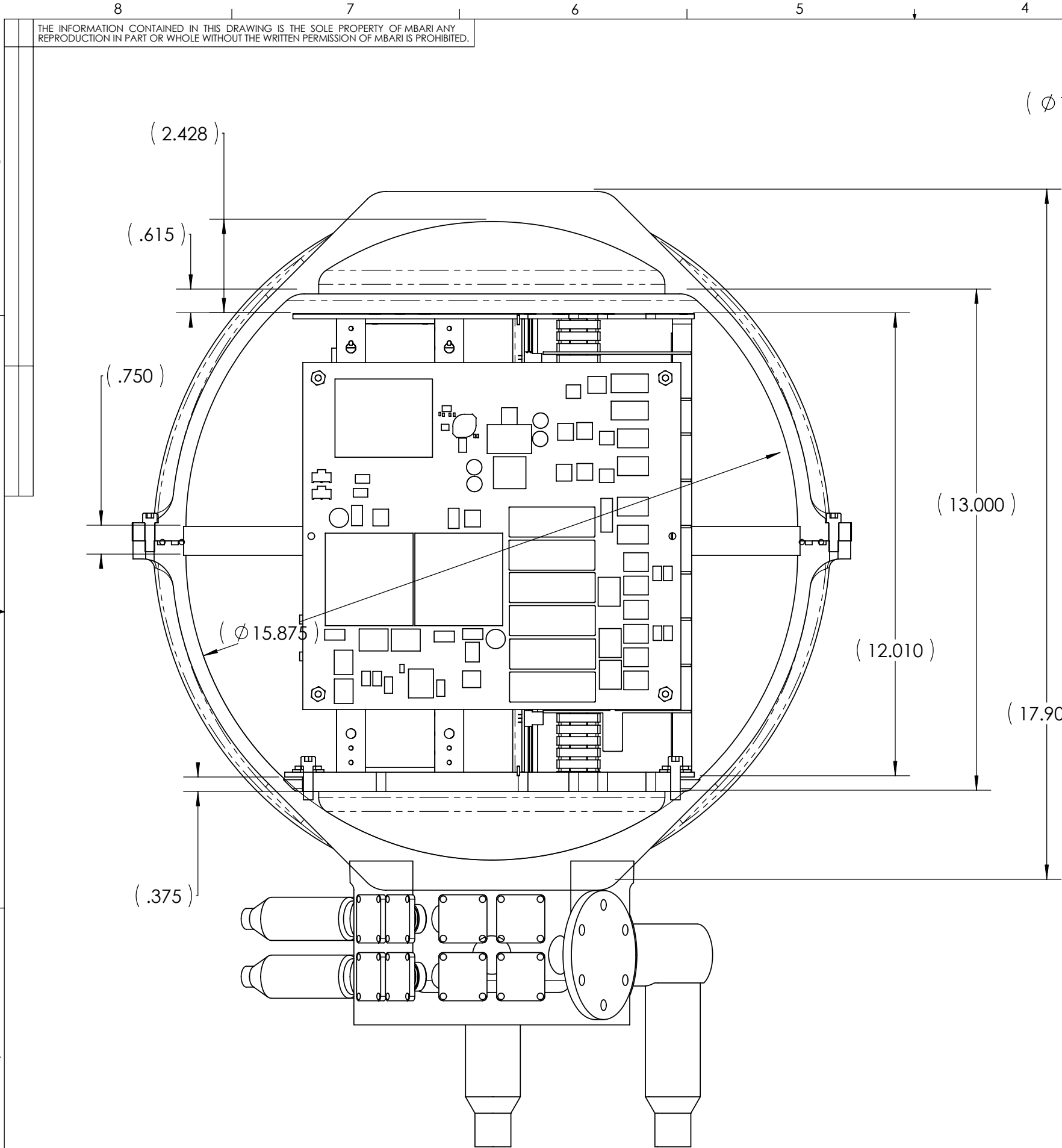


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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		

ITEM NO.	QTY.	DESCRIPTION	PART NUMBER	VENDOR	MATERIAL
1	1	Hex-Hat Ball_Casting			Titanium 6AL-4V
2	4	[972] ¼ -28 UNF x 1		McMASTER-CARR	Titanium 6AL-4V
3	5	[18] ¼" SAE	1/4	McMASTER-CARR	Titanium 6AL-4V
4	4	[20] ¼	1/4	McMASTER-CARR	Titanium 6AL-4V
5	1	2-283			BUNA - N
6	1	2-282			BUNA - N
7	1	Ball_Cap-As Cast	1001790	WAH CHANG	Titanium 6AL-4V
8	12	[970] ¼ -28 UNF x ¾		McMASTER-CARR	Titanium 6AL-4V
9	1	HexKey.188			
10	1	VentPlug	1001853		Titanium 6AL-4V
11	1	O-Ring	#3-904		BUNA - N
12	1	2-015	#2-015		BUNA - N
13	1	Moos-IBC_Bin-Interior_Dual.Assem			
14	1	PwrBrd_Asem			
15	1	BoostCap	BMOD0350-15EA	Maxwell Technologies	
16	1	BatteryAssemBracket	1003122		ABS Plastic
17	1	Battery Pack	ES3182	Energy Sales Inc.	
18	3	HybridPenetrator_8-12	1017016	ODI	Titanium 6AL-4V
19	1	[974] ¼ -28 UNF x 1½		McMASTER-CARR	Titanium 6AL-4V
20	12	SeaCon_MINK-FCR			
21	1	Moos-MMC-OpticalPlate	101266.DWG		Aluminum 6061-T6
22	1	ODI_HybridPenetrator_Dummy			
23	2	#10-RingTongue Spade_connect			

ITEM NO.	QTY	PART NO.	DESCRIPTION	MATERIAL SPECIFICATION
BILL OF MATERIALS				
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS	DATE
1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	DRAWN J. ERICKSON	6/9/04
1. DIMENSIONS ARE IN INCHES			ENGINEER J. ERICKSON	6/9/04
2. DIMENSION LIMITS HELD AFTER PLATING.			CHECKED F.S.	X/XX/XX
3. REMOVE BURRS AND SHARP EDGES .015 MAX.			PROJECT NO.	600027
4. MACHINED FILLET RADII .0150.030.			PROJECT	MOOS
5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005			WEIGHT	
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				
Monterey Bay Aquarium Research Institute				
7700 Sandholdt RD. Moss Landing, CA 95039 PH: (408) 775-1700				
MOOS.200408 - BIN				
Ball_Case_Assembly_V3				
SIZE B	DWG. NO.	REV.		
	1002455.DWG			
SCALE 1:1	CAD FILE: BARNACLE\ARCHIVE	SHEET 1 OF 1		



NOTES: (CONT. FROM TITLE BLOCK)

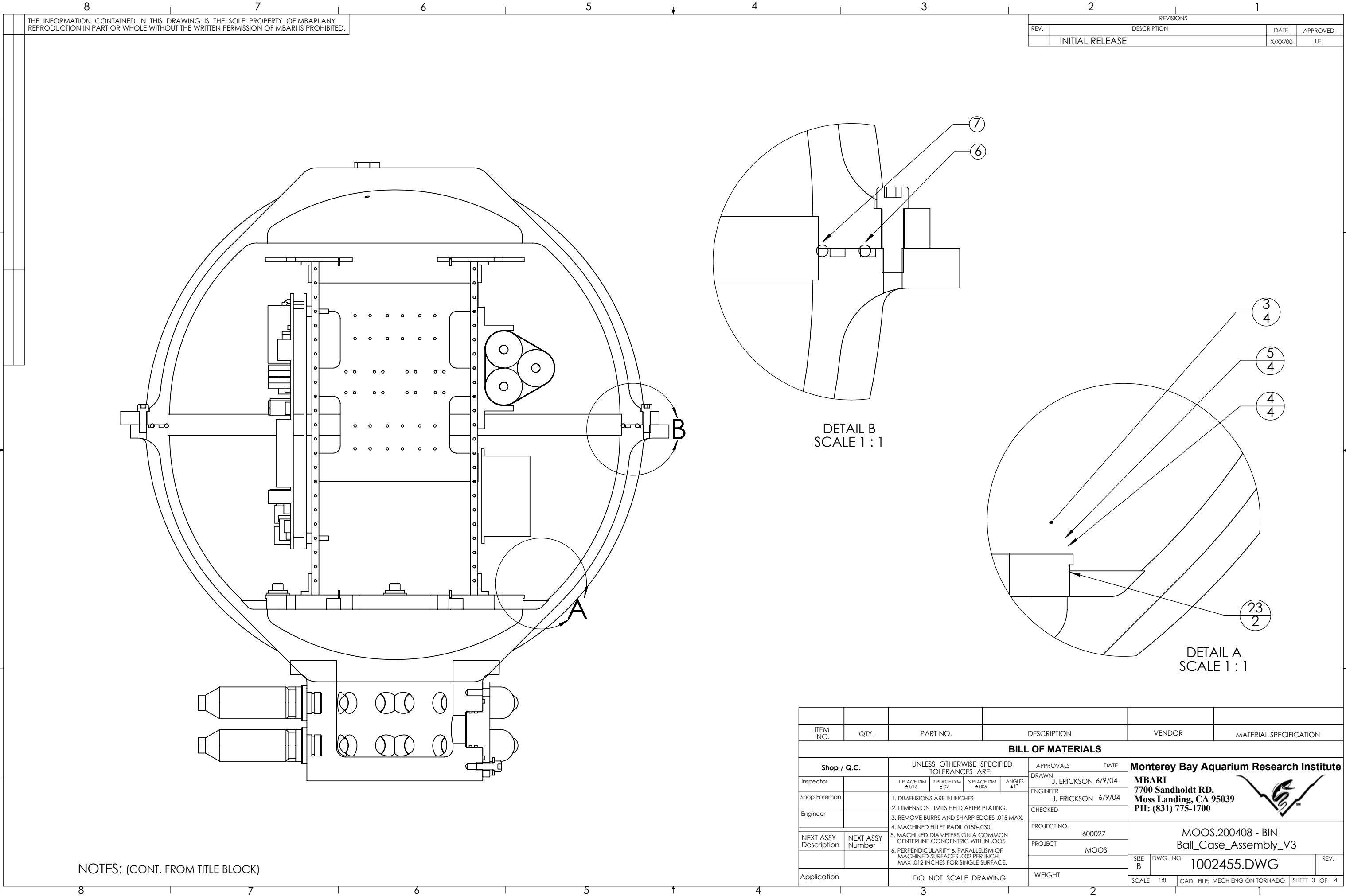
ITEM NO.	QTY.	PART NO.	DESCRIPTION	VENDOR	MATERIAL SPECIFICATION
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD 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 6/9/04
Engineer					ENGINEER J. ERICKSON 6/9/04
					CHECKED
NEXT ASSY Description	NEXT ASSY Number	PROJECT NO. 600027			Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 
		PROJECT MOOS			
Application		DO NOT SCALE DRAWING		WEIGHT	
				SIZE B	DWG. NO. 1002455.DWG
				SCALE 1:8	CAD FILE: MECH ENG ON TORNADO SHEET 2 OF 4

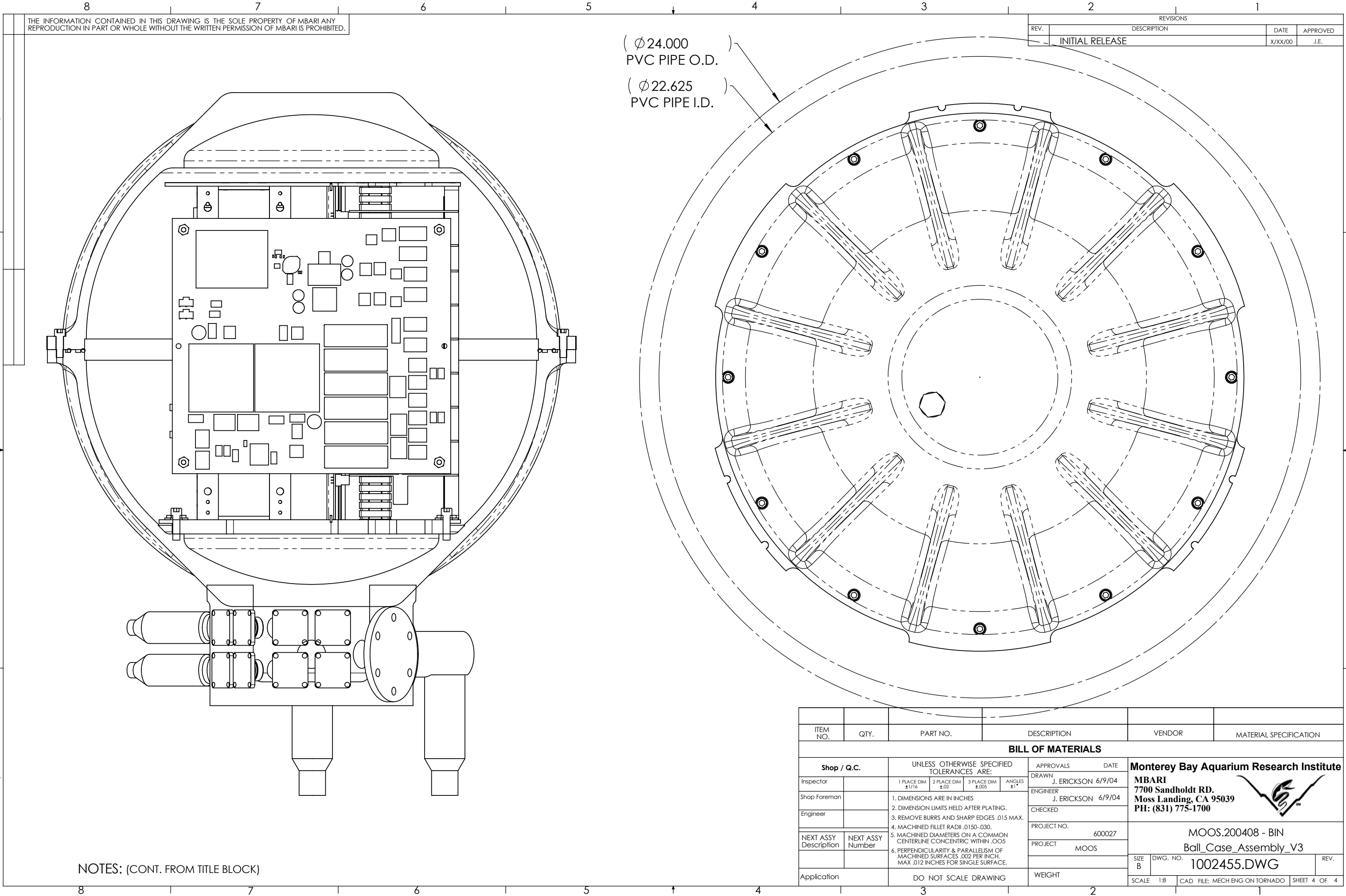
Monterey Bay Aquarium Research Institute
MBARI
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (831) 775-1700



MOOS.200408 - BIN
Ball_Case_Assembly_V3

REVISIONS
REV. DESCRIPTION DATE APPROVED
INITIAL RELEASE X/XX/00 J.E.





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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	INITIAL RELEASE	X/XX/00	J.E.

(Ø 24.000
PVC PIPE O.D.)

(Ø 22.625
PVC PIPE I.D.)

NOTES: (CONT. FROM TITLE BLOCK)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	VENDOR	MATERIAL SPECIFICATION
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 6/9/04	
Engineer				ENGINEER J. ERICKSON 6/9/04	
				CHECKED	
NEXT ASSY Description	NEXT ASSY Number			PROJECT NO. 600027	Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700  MOOS.200408 - BIN Ball_Case_Assembly_V3
				PROJECT MOOS	
Application		DO NOT SCALE DRAWING		WEIGHT	
				SIZE B	DWG. NO. 1002455.DWG
				SCALE 1:8	CAD FILE: MECH ENG ON TORNADO
				SHEET 4 OF 4	

Monterey Bay Aquarium Research Institute

MBARI

7700 Sandholdt RD.

Moss Landing, CA 95039

PH: (831) 775-1700

MOOS.200408 - BIN

Ball_Case_Assembly_V3

SIZE B

DWG. NO. 1002455.DWG

REV.

SCALE 1:8

CAD FILE: MECH ENG ON TORNADO

SHEET 4 OF 4