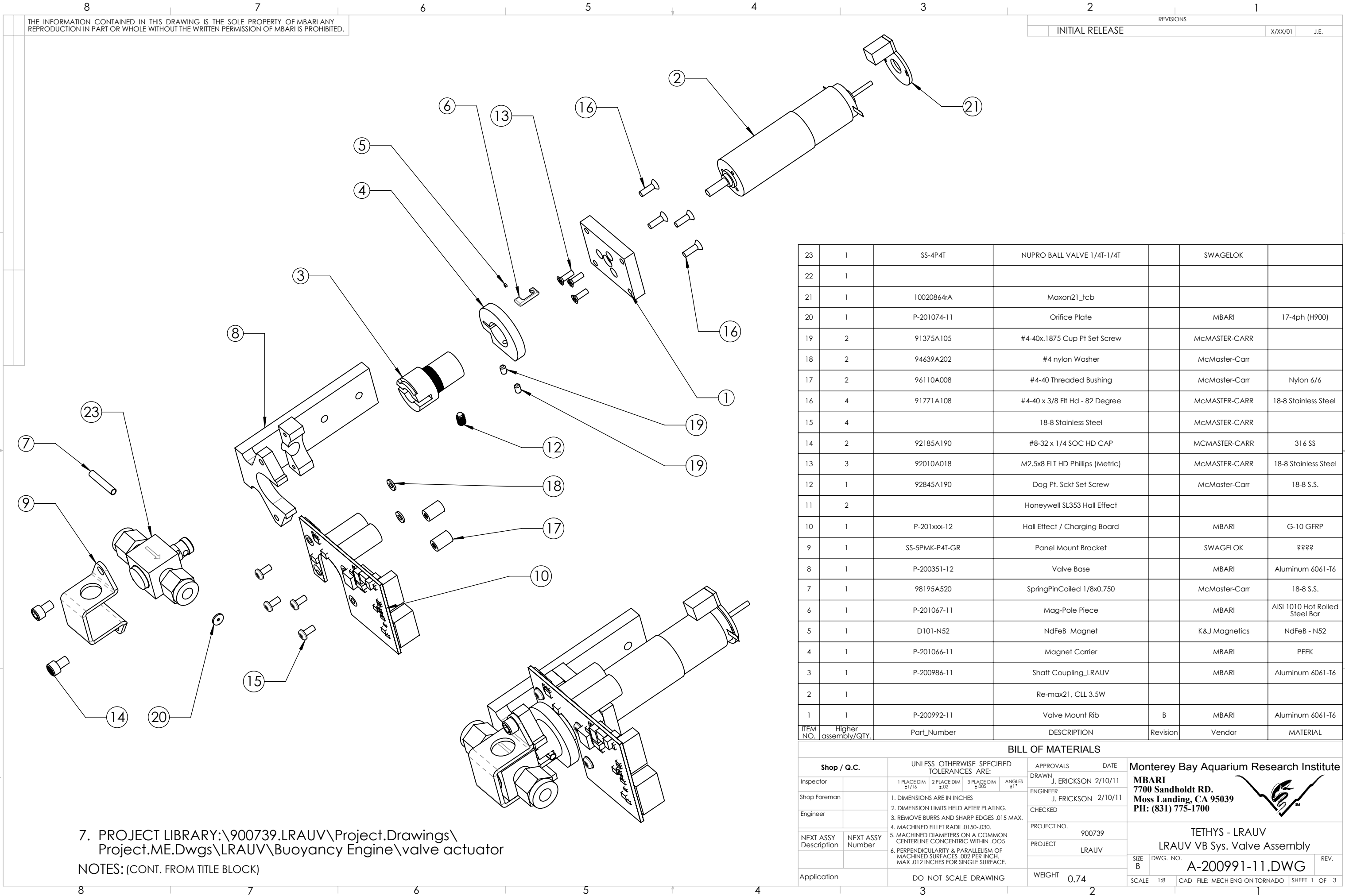




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REVISIONS		
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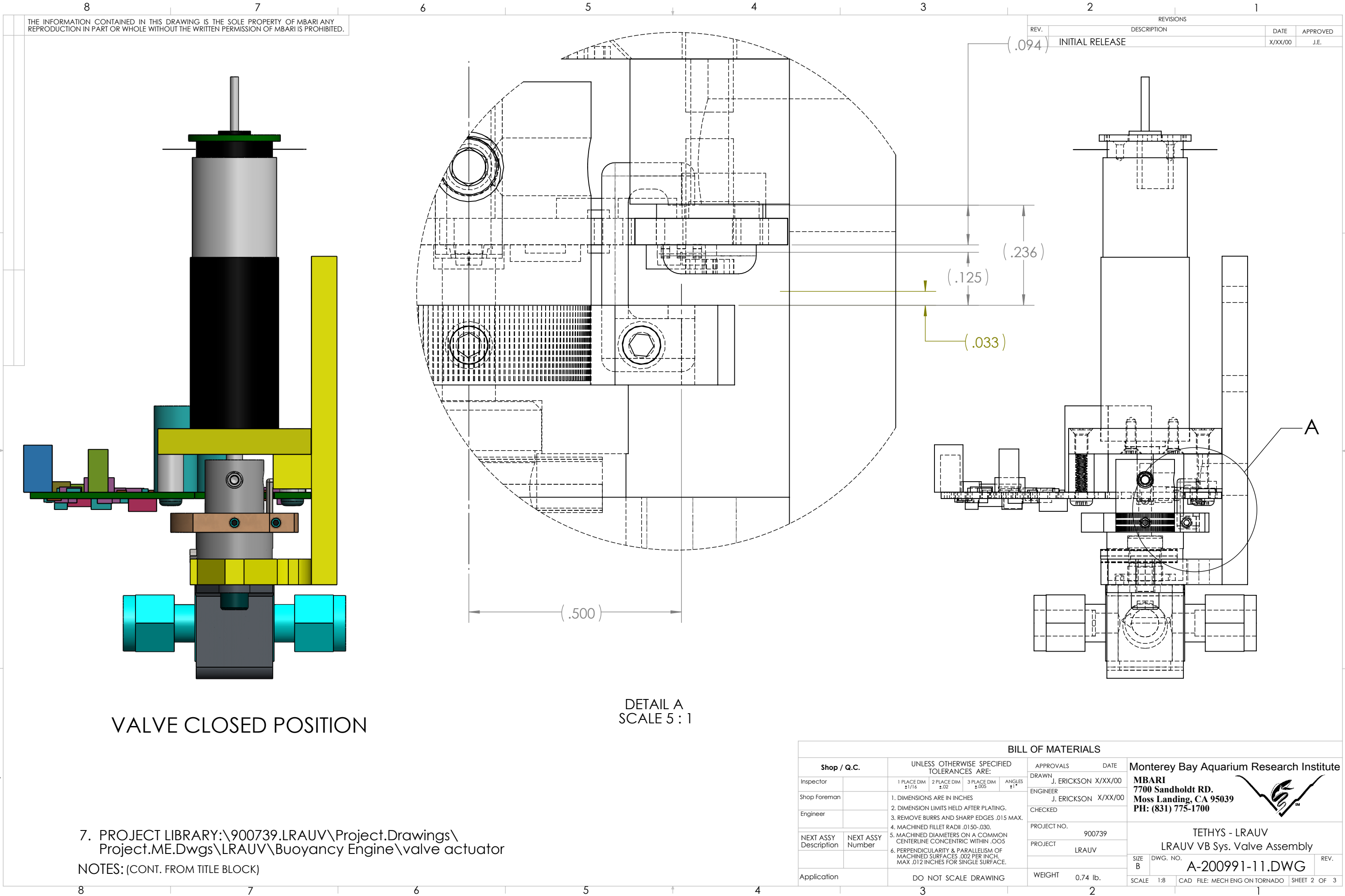
23	1	SS-4P4T	NUPRO BALL VALVE 1/4T-1/4T		SWAGELOK	
22	1					
21	1	10020864rA	Maxon21_tcb			
20	1	P-201074-11	Orifice Plate		MBARI	17-4ph (H900)
19	2	91375A105	#4-40x.1875 Cup Pt Set Screw		McMASTER-CARR	
18	2	94639A202	#4 nylon Washer		McMaster-Carr	
17	2	96110A008	#4-40 Threaded Bushing		McMaster-Carr	Nylon 6/6
16	4	91771A108	#4-40 x 3/8 Flt Hd - 82 Degree		McMASTER-CARR	18-8 Stainless Steel
15	4		18-8 Stainless Steel		McMASTER-CARR	
14	2	92185A190	#8-32 x 1/4 SOC HD CAP		MCMaster-CARR	316 SS
13	3	92010A018	M2.5x8 FLT HD Phillips (Metric)		McMASTER-CARR	18-8 Stainless Steel
12	1	92845A190	Dog Pt. Sckt Set Screw		McMaster-Carr	18-8 S.S.
11	2		Honeywell SL353 Hall Effect			
10	1	P-201xxx-12	Hall Effect / Charging Board		MBARI	G-10 GFRP
9	1	SS-5PMK-P4T-GR	Panel Mount Bracket		SWAGELOK	???
8	1	P-200351-12	Valve Base		MBARI	Aluminum 6061-T6
7	1	98195A520	SpringPinCoiled 1/8x0.750		McMaster-Carr	18-8 S.S.
6	1	P-201067-11	Mag-Pole Piece		MBARI	AISI 1010 Hot Rolled Steel Bar
5	1	D101-N52	NdFeB Magnet		K&J Magnetics	NdFeB - N52
4	1	P-201066-11	Magnet Carrier		MBARI	PEEK
3	1	P-200986-11	Shaft Coupling_LRAUV		MBARI	Aluminum 6061-T6
2	1		Re-max21, CLL 3.5W			
1	1	P-200992-11	Valve Mount Rib	B	MBARI	Aluminum 6061-T6
ITEM NO.	Higher assembly/QTY.	Part_Number	DESCRIPTION	Revision	Vendor	MATERIAL

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	J. ERICKSON	2/10/11	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	J. ERICKSON	2/10/11				
Engineer						CHECKED						
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO.	900739		TETHYS - LRAUV LRAUV VB Sys. Valve Assembly			
						PROJECT	LRAUV					
Application		DO NOT SCALE DRAWING				WEIGHT	0.74		SIZE B	DWG. NO. A-200991-11.DWG	REV.	
						SCALE	1:8	CAD FILE: MECH ENG ON TORNADO	SHEET 1 OF 3			

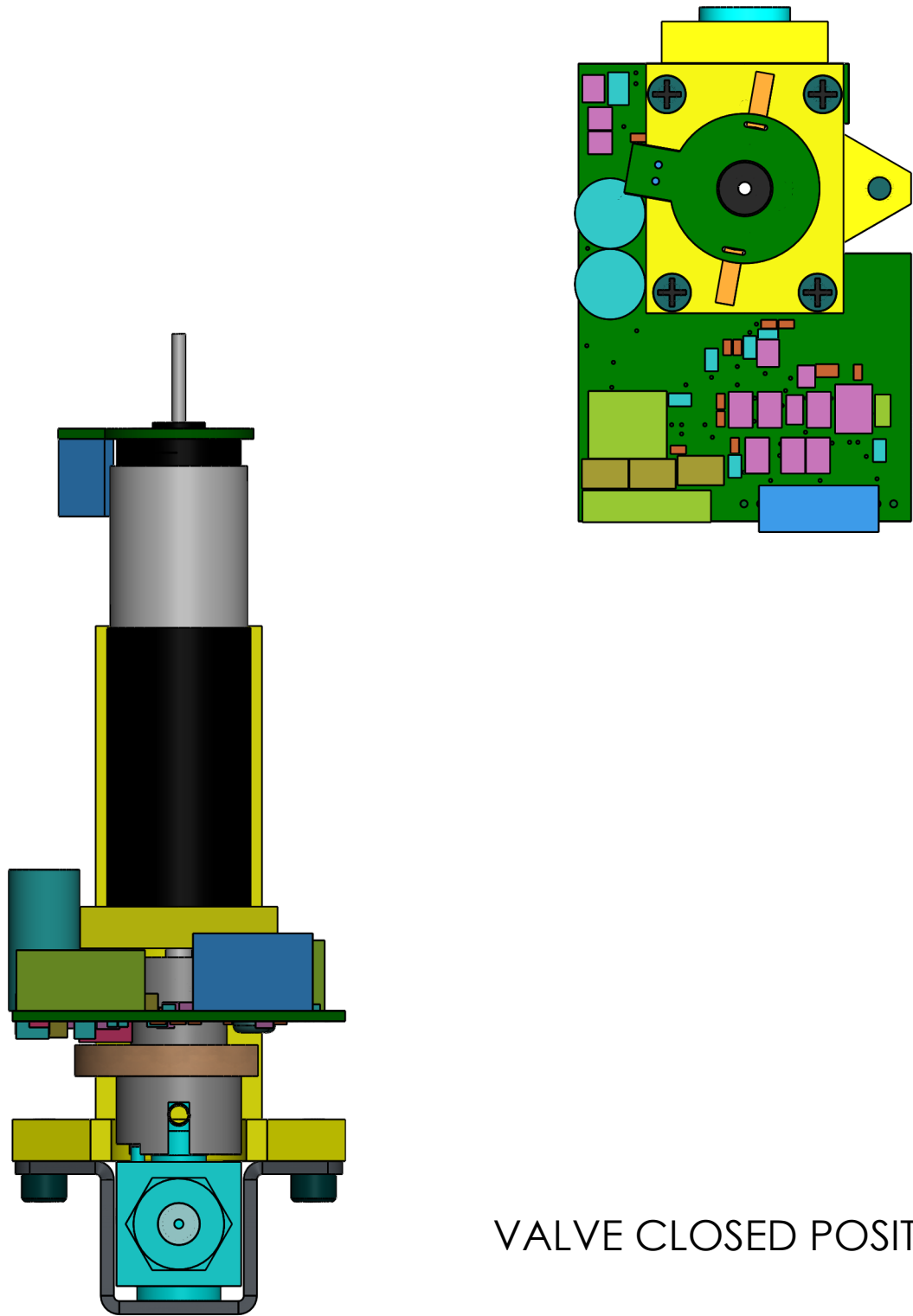
7. PROJECT LIBRARY:\900739.LRAUV\Project.Drawings\Project.ME.Dwgs\LRAUV\Buoyancy Engine\valve actuator

NOTES: (CONT. FROM TITLE BLOCK)

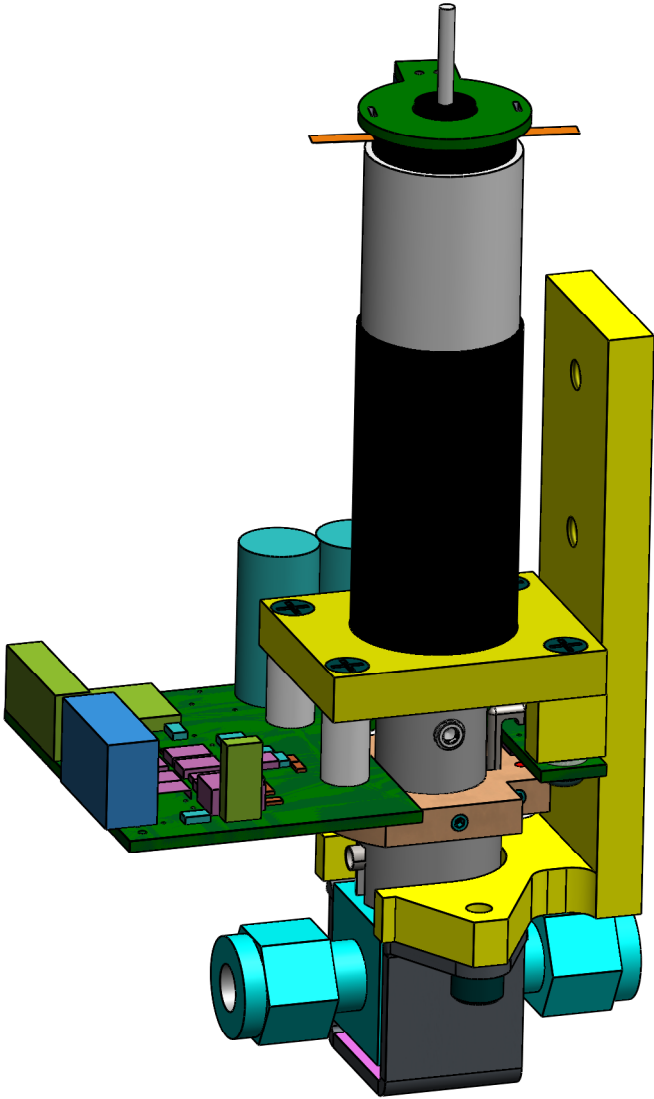
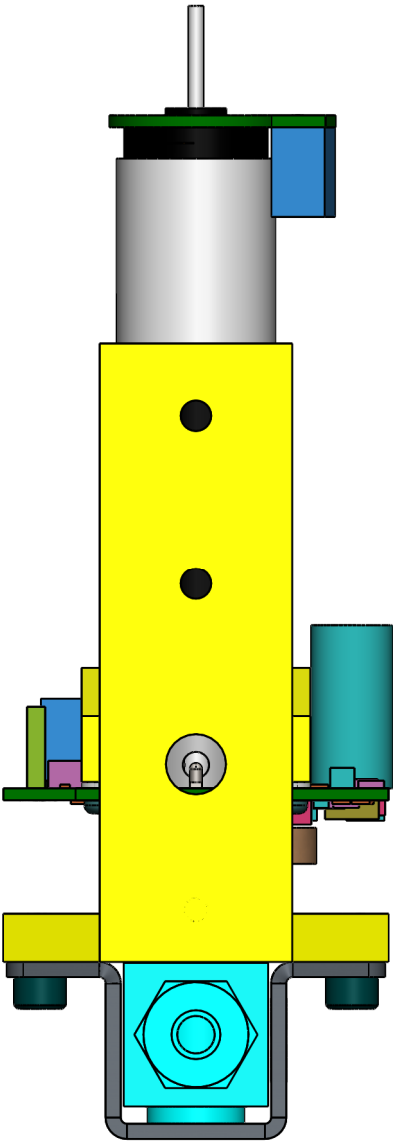


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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.



VALVE CLOSED POSITION



7. PROJECT LIBRARY:\900739.LRAUV\Project.Drawings\
Project.ME.Dwgs\LRAUV\Buoyancy Engine\valve actuator

NOTES: (CONT. FROM TITLE BLOCK)

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°	DRAWN	J. ERICKSON X/XX/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	J. ERICKSON X/XX/00			
Engineer						CHECKED				
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO.	900739			
						PROJECT	LRAUV			
Application		DO NOT SCALE DRAWING				WEIGHT	0.74 lb.			
						SIZE B	DWG. NO.		REV.	
						A-200991-11.DWG				
						SCALE 1:8	CAD FILE: MECH ENG ON TORNADO		SHEET 3 OF 3	

Monterey Bay Aquarium Research Institute

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Moss Landing, CA 95039

PH: (831) 775-1700



TETHYS - LRAUV

LRAUV VB Sys. Valve Assembly

Monterey Bay Aquarium Research Institute
MBARI
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Moss Landing, CA 95039
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TETHYS - LRAUV
LRAUV VB Sys. Valve Assembly

A-200991-11.DWG