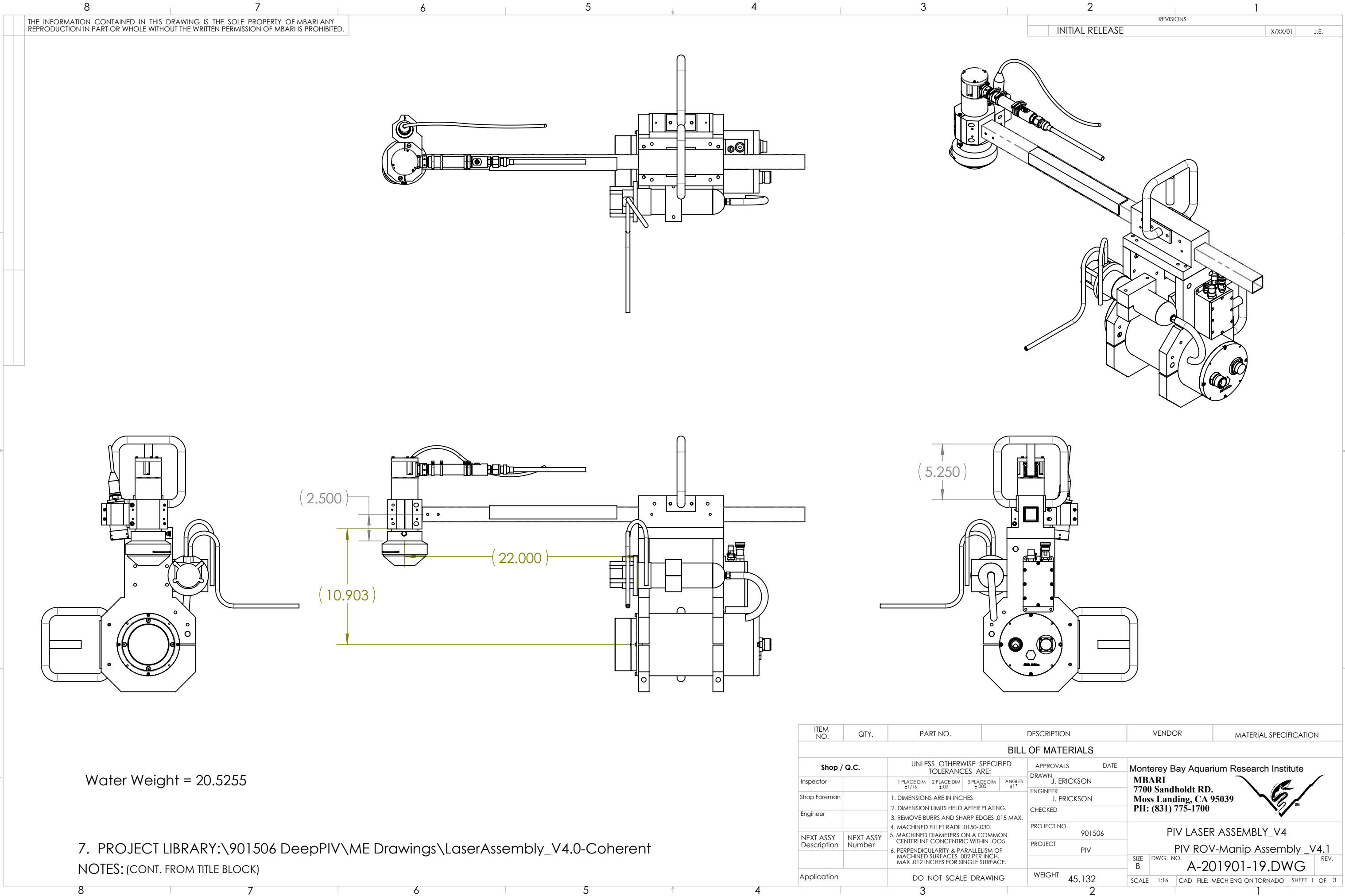




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REVISIONS		
INITIAL RELEASE	X/XX/01	J.E.

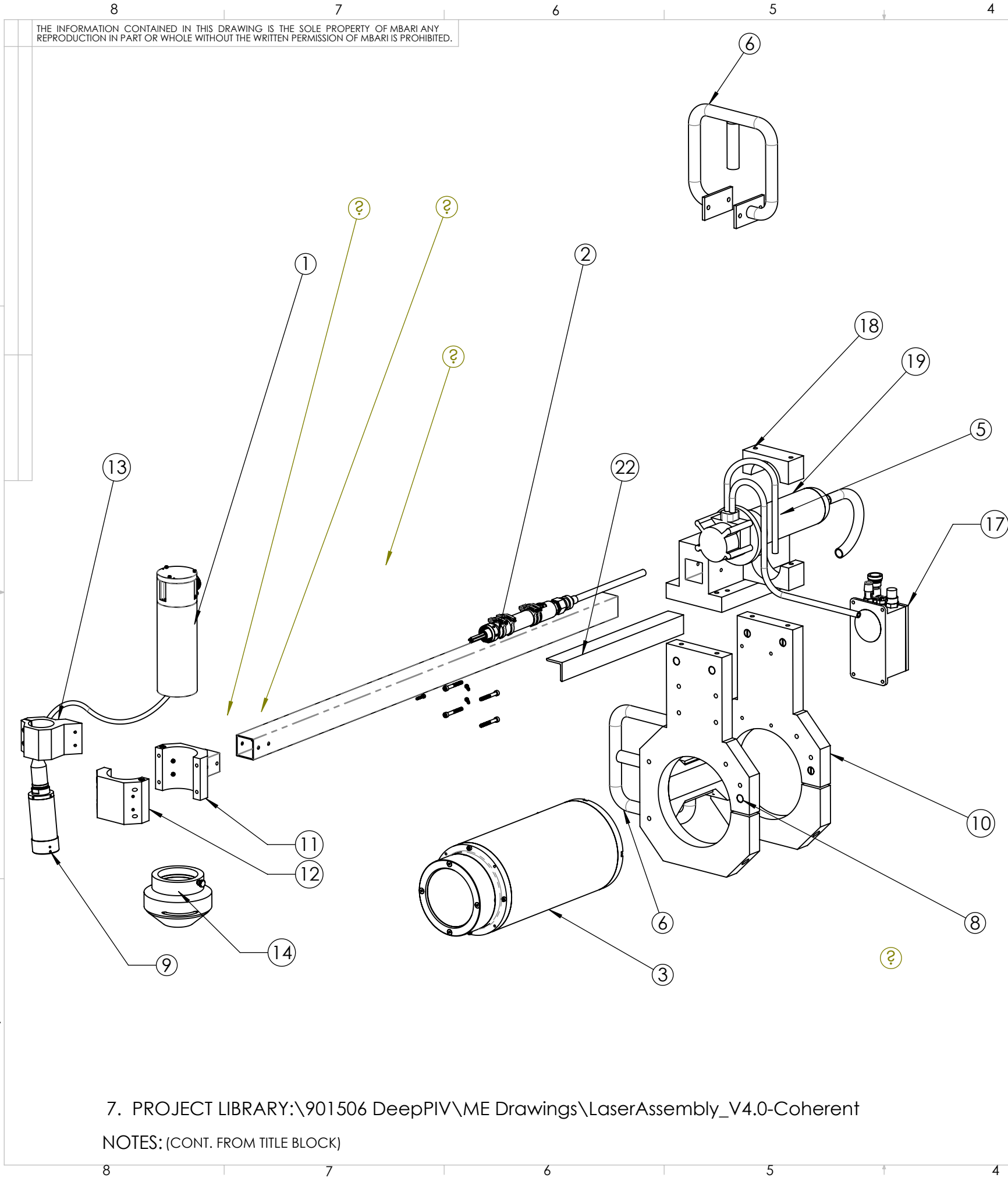
Water Weight = 20.5255

7. PROJECT LIBRARY:\901506 DeepPIV\ME Drawings\LaserAssembly_V4.0-Coherent
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		DRAWN	J. ERICKSON
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.		ENGINEER	J. ERICKSON
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		CHECKED	
		4. MACHINED FILLET RADII .0150-.030.		PROJECT NO.	901506
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		PROJECT	PIV
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.		WEIGHT	45.132
Application		DO NOT SCALE DRAWING		Monterey Bay Aquarium Research Institute	
				MBARI	
				7700 Sandholdt RD.	
				Moss Landing, CA 95039	
				PH: (831) 775-1700	
					
				PIV LASER ASSEMBLY_V4	
				PIV ROV-Manip Assembly _V4.1	
		SIZE B	DWG. NO.	A-201901-19.DWG	
		SCALE 1:16	CAD FILE: MECH ENG ON TORNADO	REV.	
		SHEET 1 OF 3			

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





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

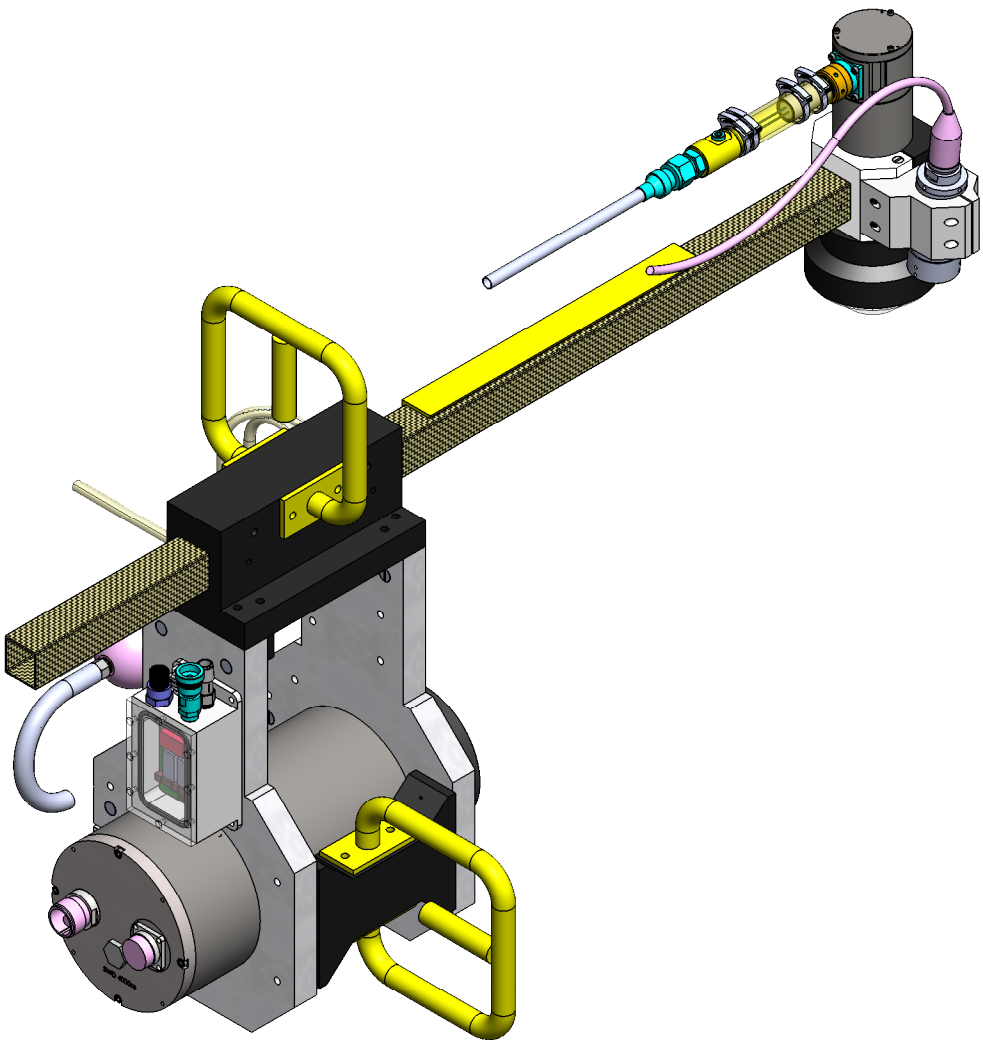
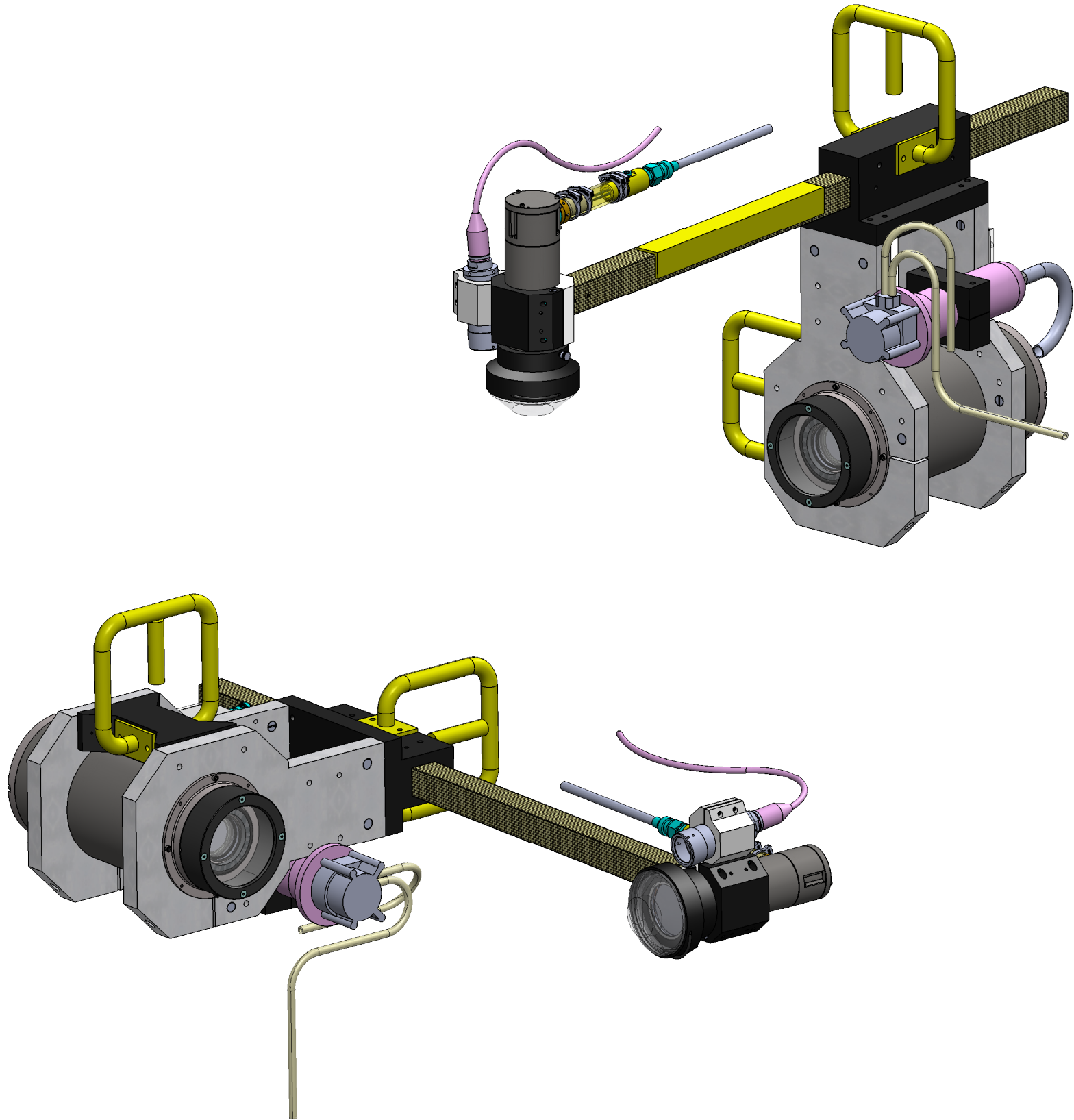
23	1	A-201954-17	PBOF Fiber Assembly		MBARI	
22	1					
21	4	92185A994	#10-32 x 1.5 Sckt Hd Cap Screw		McMaster-Carr	AISI 316
20	4	92185A149	#6-32 x 5/8 Sckt Hd Cap Screw		McMaster-Carr	AISI 316
19	1					
18	2					
17	1			A.01		
16	4		Barrel Nut		MBARI	
15	4	95110A113	#6-32 Insert (3/16 Hole 1/4 Dp)		McMaster-Carr	AISI 304
14	1		Safety Cap Diffuser Assembly			
13	1	P-201976-18	Camera Mount (IT-1000) V2		MBARI	ABS
12	1	P-201984-18	Remote Head Mount		MBARI	POM Delrin (Black)
11	1	P-201984-18	Remote Head Mount		MBARI	ABS
10	1	P-201803-17	Camera Plate Bracket V2		MBARI	PE UHMW
9	1		InSite Pacific BW Camera			
8	6		Barrel Nut		MBARI	
7	1	P-201823-17	Alternate Handle Mount V2		MBARI	POM Delrin (Black)
6	2	P-201807-16	Bail "D" Handle for PIV		MBARI	6061-T6 Alloy
5	1	P-201801-17	Fiber Tube Mount Block		MBARI	POM Delrin (Black)
6	1	P-201803-17	Camera Plate Bracket V2		MBARI	PE UHMW
3	1	A-201874-17	Sony Box Camera Assembly_V2		MBARI	
2	1	25492	Rect. Tube		Rock West Composites	Generic Carbon Epoxy
1	1	A-201785-19	Remote Laser Head Assembly V5		MBARI	
ITEM NO.	Print/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 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	J. ERICKSON				
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				
Engineer						CHECKED					
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO.	901506	PIV LASER ASSEMBLY_V4 PIV ROV-Manip Assembly_V4.1			
						PROJECT	PIV				
						WEIGHT	45.132 lb.				
Application		DO NOT SCALE DRAWING						SIZE B	DWG. NO.	REV.	
						SCALE	1:16	CAD	FILE: MECH ENG ON TORNADO	SHEET 2 OF 3	

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



7. PROJECT LIBRARY:\901506 DeepPIV\ME Drawings\LaserAssembly_V4.0-Coherent
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	Monterey Bay Aquarium Research Institute 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		
Engineer						CHECKED			
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO.	901506		
						PROJECT	PIV	PIV LASER ASSEMBLY_V4.0 PIV ROV-Manip Assembly _V4.1	
						WEIGHT	45.132 lb.	SIZE B	DWG. NO. A-201901-19.DWG
Application		DO NOT SCALE DRAWING						SCALE 1:24	CAD FILE: MECH ENG ON TORNADO SHEET 3 OF 3