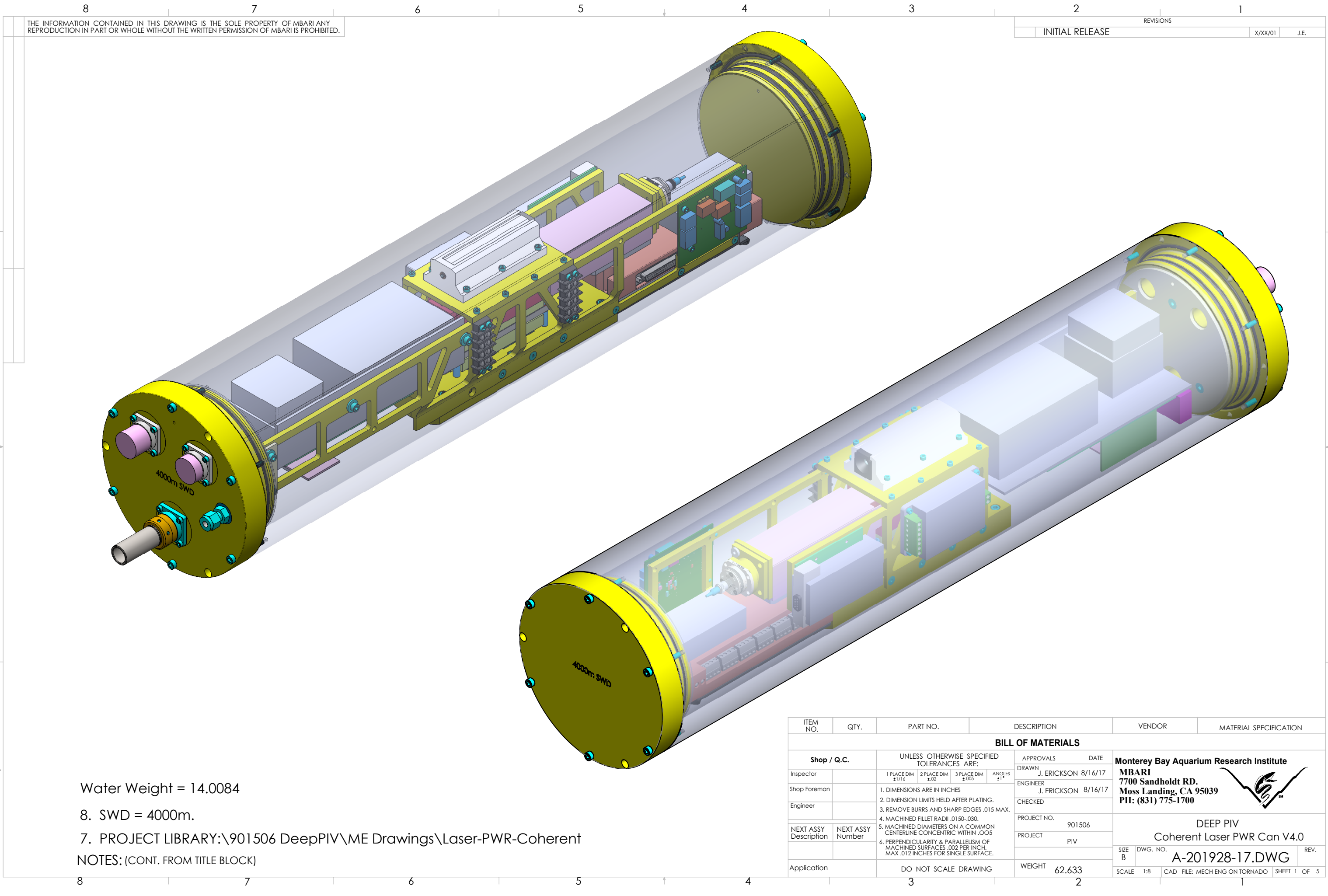




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REVISIONS		
INITIAL RELEASE	X/XX/01	J.E.

Water Weight = 14.0084

8. SWD = 4000m.

7. PROJECT LIBRARY:\901506 DeepPIV\ME Drawings\Laser-PWR-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 8/16/17	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.		ENGINEER J. ERICKSON 8/16/17	
NEXT ASSY Description		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		CHECKED	
NEXT ASSY Number		4. MACHINED FILLET RADII .0150-.030.		PROJECT NO. 901506	
Application		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 62.633	
		DO NOT SCALE DRAWING		SIZE B	
				SCALE 1:8	
				DWG. NO. A-201928-17.DWG	
				SHEET 1 OF 5	

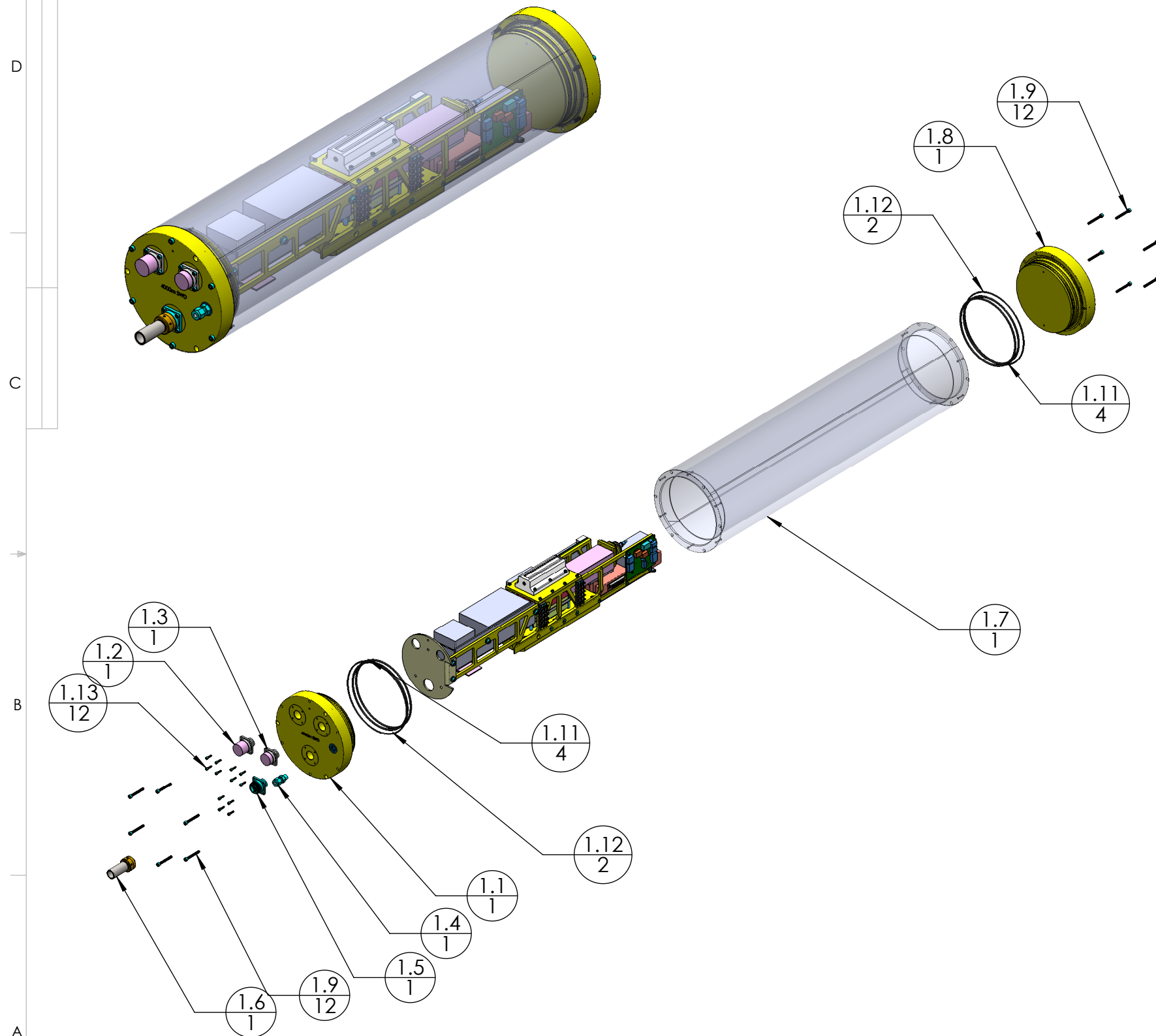
Monterey Bay Aquarium Research Institute
MBARI
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (831) 775-1700

DEEP PIV
Coherent Laser PWR Can V4.0

REV.

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

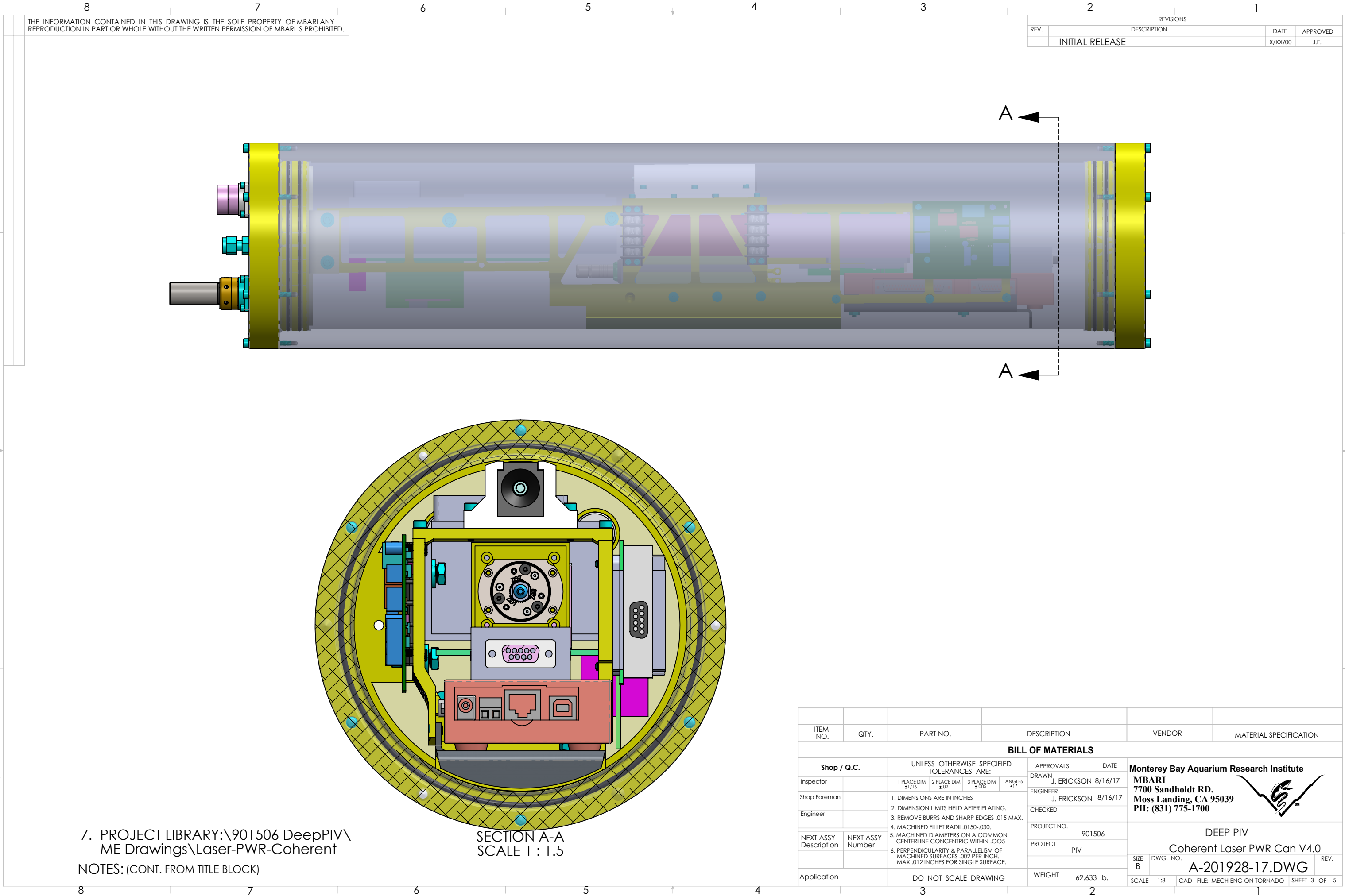


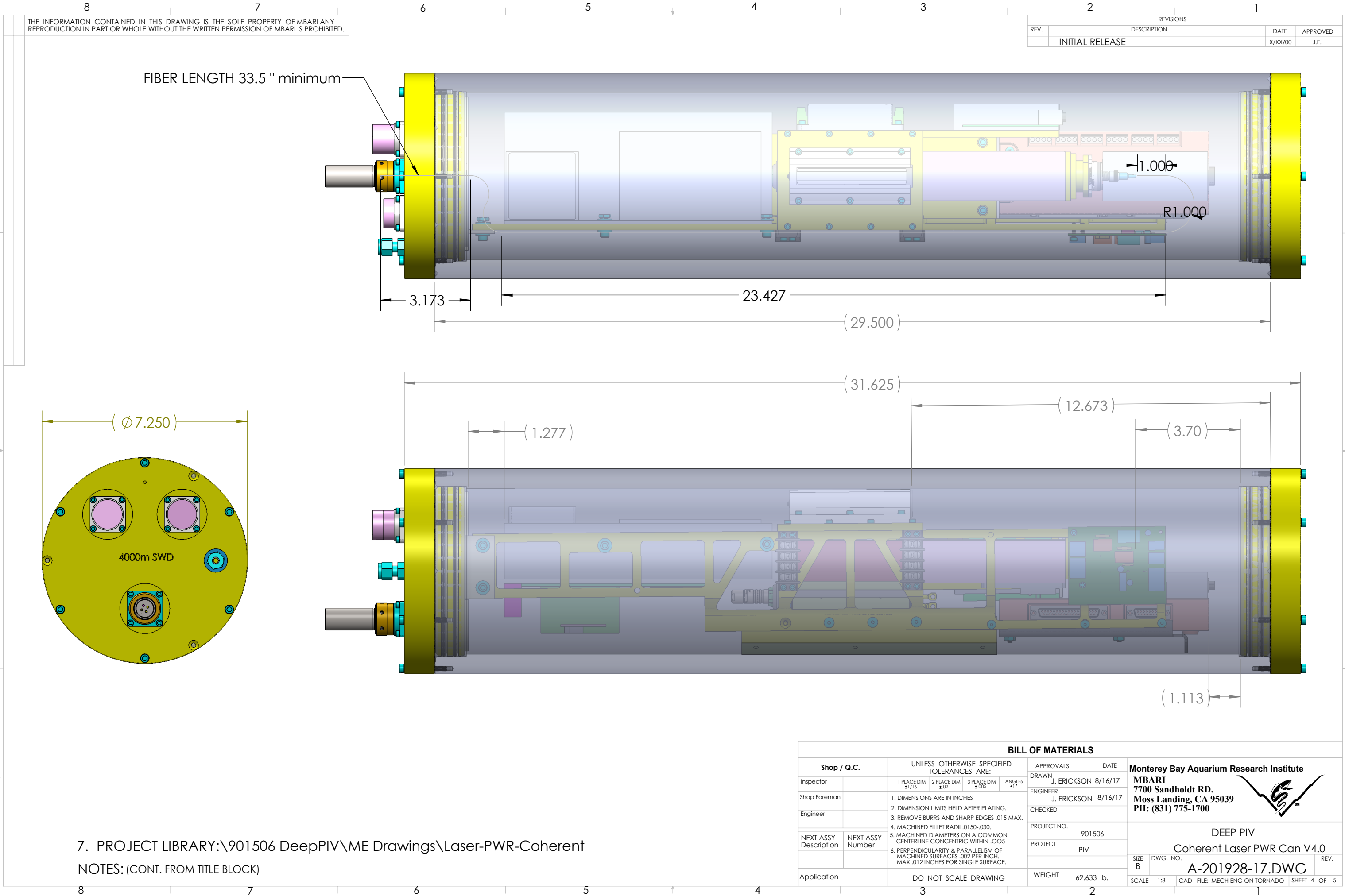
7. PROJECT LIBRARY:\901506 DeepPIV\ME Drawings\Laser-PWR-Coherent
NOTES: (CONT. FROM TITLE BLOCK)

3	3	90585A989	#10-32 x 1/2 Flt Hd Soc Screw		McMaster-Carr	AISI 316
2.24	1		Coherent Interface Board			
2.23	1		4 Port Switch			
2.22.1	1		DIGI ONE SP (serial to ethernet)		DIGI	
2.22	2	-----	DIGI ONE SP (serial to ethernet)		DIGI	
2.21	1	A1500	Sil-Pad_A1500		Berquist	
2.10.4	3	90257A009	#8-32 HexNut		McMaster-Carr	AISI 316
2.10.3	2	98164A135	#8-32 x 1/2 Hex Button Head Screws		McMaster-Carr	AISI 316
2.10.2	1	UE9	LabJack			
2.10.1.2	2	94674A510	#6-32 FLUSH NUT		McMaster-Carr	
2.10.1.1.1	-		Sheet			5052-(H34) Alloy
2.10.1.1	1	P-201963-18	Coherent LabJack Chassis		MBARI	5052-(H34) Alloy
2.10.1	1	A-201963-18	LabJack Chassis Assembly		MBARI	
2.1.1	-		Sheet			5052-(H34) Alloy
2	1	A-201xxx-18	Coherent Laser Interior Assembly		MBARI	
1.13	12	92185A148	#6-32 x 1/2 Soc Hd Cap		McMaster-Carr	AISI 316
1.12	2	#2-164-70-N	O-RING			BUNA - N
1.11	4	#2-256-70-N	O-RING			BUNA-N
1.9	12	92185A228	#10-32 x 1.5 Sock Hd Cap		McMaster-Carr	AISI 316
1.8	1	P-201793-17	Coherent Power Can End Cap		MBARI	6061-T6 Alloy
1.7	1	P-201953-18	Coherent Power Can V1		MBARI	6061-T6 Alloy
1.6	1	1002444	Mink Fiber Optic Cable Plug	B	MBARI	AISI 316 Annealed Stainless Steel Bar (SS)
1.5	1	MinK-FCR	Seacon MinK-FCR Shell		Seacon	AISI 316
1.4	1	SS-400-1-4ST	Male SAE/MS Straight Thread		SWAGELOK	316 S.S.
1.3	1	MinK-FCR	Seacon FCR BlkHd			
1.2	1	MinK-10-FCRL	MinK BlkHd		Seacon	316 S.S.
1.1	1	P-201791-17	Coherent Power Can Rear End Cap		MBARI	6061-T6 Alloy
1	1	A-201xxx-18	Exterior Assembly		MBARI	
ITEM NO.	QTY.	Part_Number	DESCRIPTION	Revision	Vendor	MATERIAL

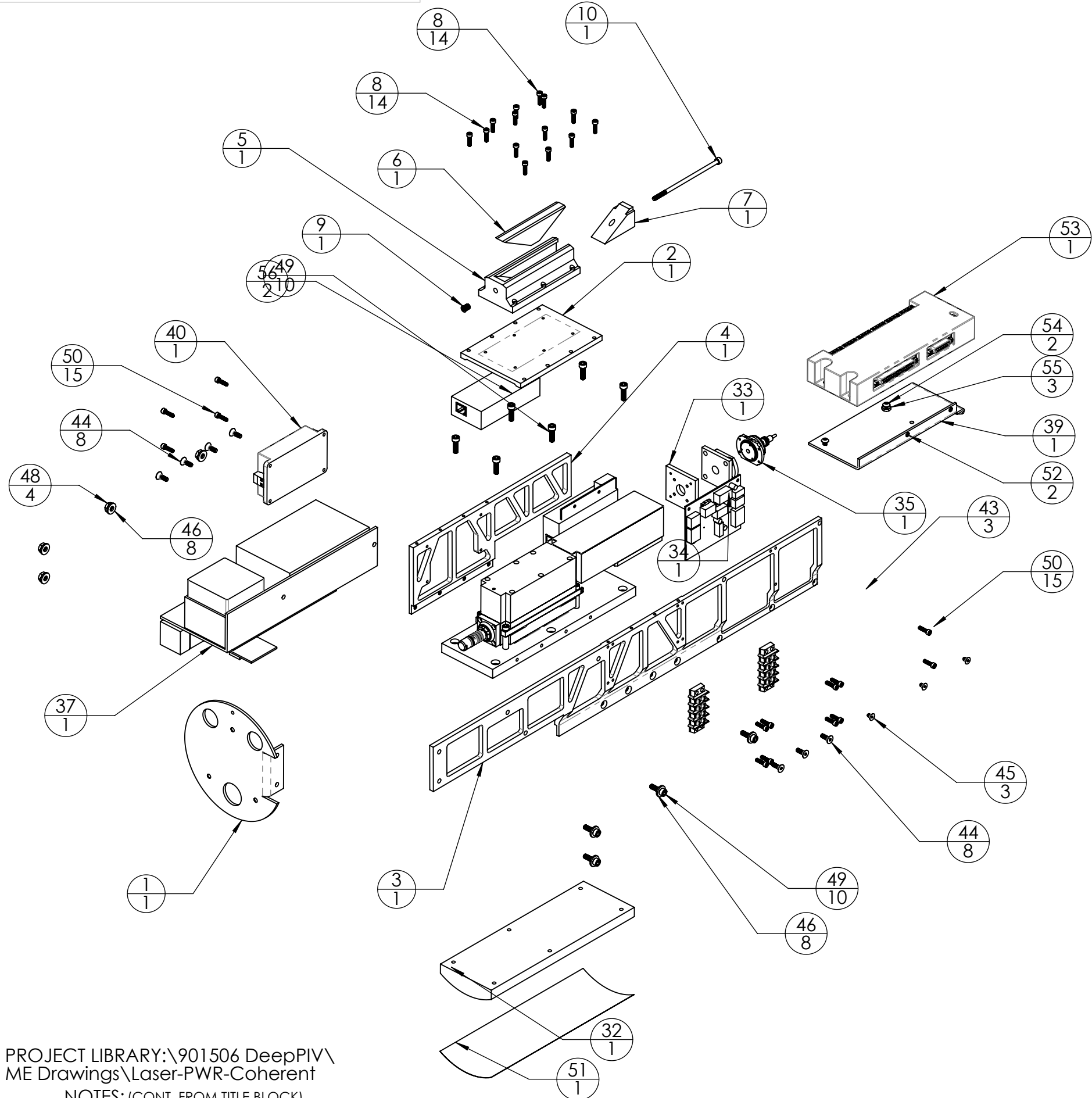
BILL OF MATERIALS

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 8/16/17	ENGINEER	J. ERICKSON 8/16/17				
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.				CHECKED		PROJECT NO.	901506	DEEP PIV Coherent Laser PWR Can V4.0			
Engineer						PROJECT	PIV						
NEXT ASSY Description	NEXT ASSY Number									WEIGHT	62.633 lb.	SIZE B	DWG. NO.
Application		DO NOT SCALE DRAWING						SCALE	1:24	CAD FILE: MECH ENG ON TORNADO	SHEET 2 OF 5		





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7. PROJECT LIBRARY:\901506 DeepPIV\
ME Drawings\Laser-PWR-Coherent
NOTES: (CONT. FROM TITLE BLOCK)

59	13		4 Port Switch		1	
58	2			REVISIONS		
			REV.	DESCRIPTION		DATE
57	2			INITIAL RELEASE		X/XX/00
						J.E.
56	2		DIGI ONE SP (serial to ethernet)		DIGI	
55	3	90257A009	#8-32 HexNut		McMaster-Carr	AISI 316
54	2	98164A135	#8-32 x 1/2 Hex Button Head Screws		McMaster-Carr	AISI 316
53	1	UE9	LabJack			
52	2	94674A510	#6-32 FLUSH NUT		McMaster-Carr	
51	1	A1500	Sil-Pad_A1500		Berquist	
50	15	92185A148	#6-32 x 1/2 Soc Hd Cap		McMaster-Carr	AISI 316
49	10	92185A990	#10-32 x 5/8 Sckt Hd Cap		McMaster-Carr	AISI 316
48	4	90257A411	#10-32 Hex Nut		McMaster-Carr	AISI 316
47	4	92147A430	#10 Split Lock Washer		McMaster-Carr	AISI 316
46	8	91950A027	#10 SAE Flat Washer		McMaster-Carr	AISI 316
45	3	90585A210	#6-32 x 1/4 Fit Hd Sckt Screw		McMaster-Carr	AISI 316
44	8	90585A228	#8-32 Soc Flat Hd Screw		McMaster-Carr	AISI 316
43	3	38770-0104	MOLEX 0140 (3/8" spacing) series barrier block.		Migi-Key MOLEX	
40	1	AA15D-1212A-C	Delta		Delta	
39	1	P-201963-18	Coherent LabJack Chassis		MBARI	5052-(H34) Alloy
37	1	-----	UDD2 Power Supply		LEC	
36	1	S-FUXX-9/125/.25-0.3-X	FC/UPC connector, 0.3 meter		Coastal Connections	
35	1	PA-X-5-A	ThorLabs Fiber Adaptor Collimator		ThorLabs	
34	1	?????	ThorLabs Fiber INjector Adaptor		ThorLabs	
33	1	??????	Coherent Adaptor Plate		Coherent	
32	1	P-201962-18	Case Heat Sink		MBARI	6061-T6 Alloy
10	1	92196A213	#8-32 x 4 Soc Hd Cap		McMaster-Carr	AISI 304
9	1	94615A114	#8-32 Brass Insert		McMaster-Carr	Brass
8	14	92185A148	#6-32 x 1/2 Soc Hd Cap Screw		McMaster-Carr	AISI 316
7	1	P-201960-18	Clamp Slide Block		MBARI	POM Delrin (Black)
6	1	P-201959-18	Clamp Press Rod_V2		MBARI	ABS
5	1	P-201961-18	Clamp Base		MBARI	ABS
4	1	P-201957-18	Side Clamp Plate		MBARI	6061-T6 Alloy
3	1	P-201957-18	Side Clamp Plate_V3	A	MBARI	6061-T6 Alloy
2	1	P-201958-18	Clamp Top-Base Plate		MBARI	6061-T6 Alloy
1	1	P-201933-17	Coherent Chassis Mount Plate		MBARI	5052-(H34) Alloy
ITEM NO.	QTY.	Part_Number	DESCRIPTION	Revision	Vendor	MATERIAL

BILL OF MATERIALS						
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS	DATE	Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 
1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN	J. ERICKSON	
1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADI .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	
				CHECKED		
				PROJECT NO.	901506	
DO NOT SCALE DRAWING				PROJECT	PIV	
				SIZE B	DWG. NO.	
				A-201xxx-18.DWG		
				SCALE 1:8	CAD FILE: MECH ENG ON TORNADO	SHEET 5 OF 5

3

2

1