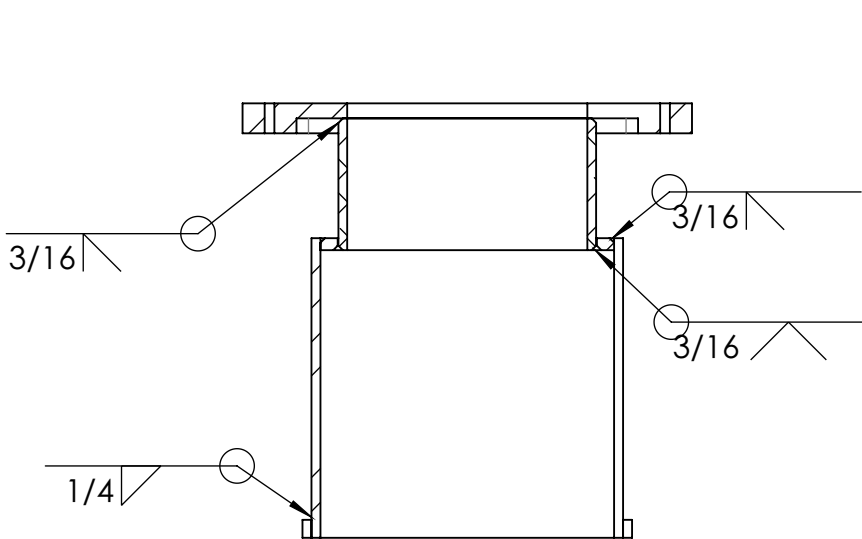
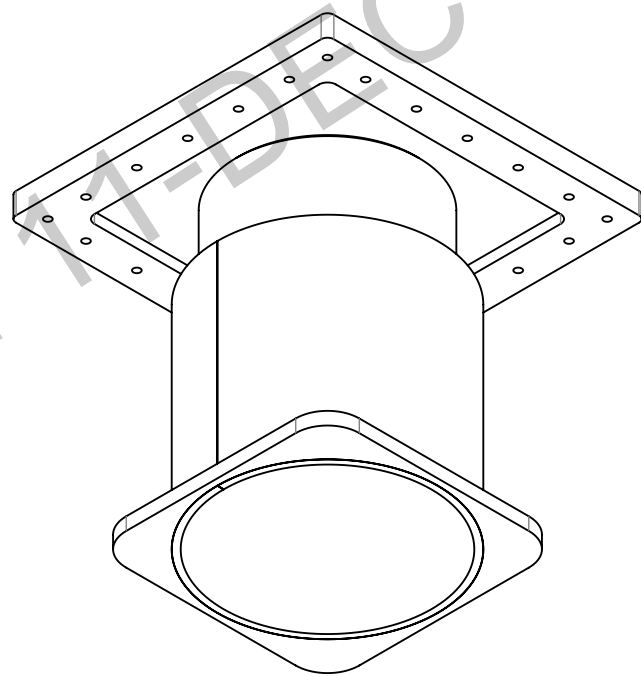
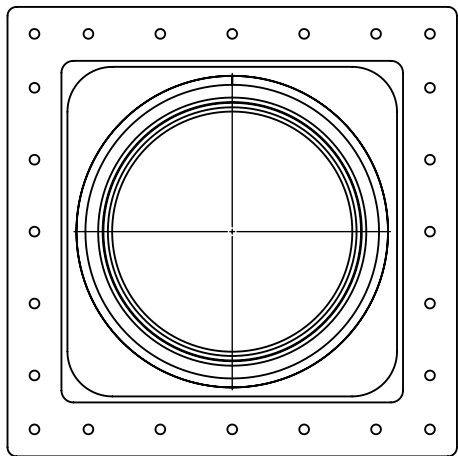
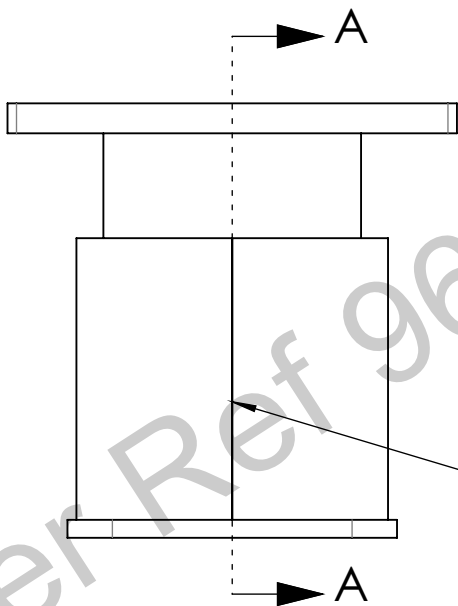


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REVISIONS			
INITIAL RELEASE	X/XX/01	J.E.	



SECTION A-A



APPROVED

This approval covers only ABS requirements and does not include items not required by ABS. Details of this approval are set forth in the ABS letter.



ABS

ALL PENETRATIONS ARE TO BE WATERTIGHT TO THE SATISFACTION OF THE SURVEYOR

MATERIALS, FIT UP, AND WELDING ARE TO BE TO THE SATISFACTION OF THE SURVEYOR.

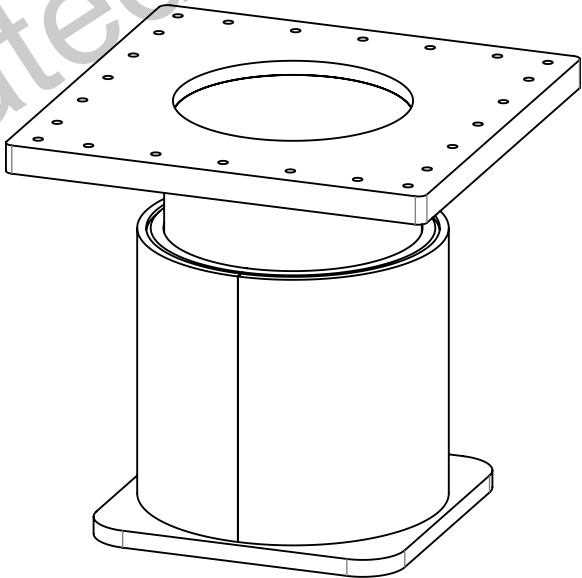
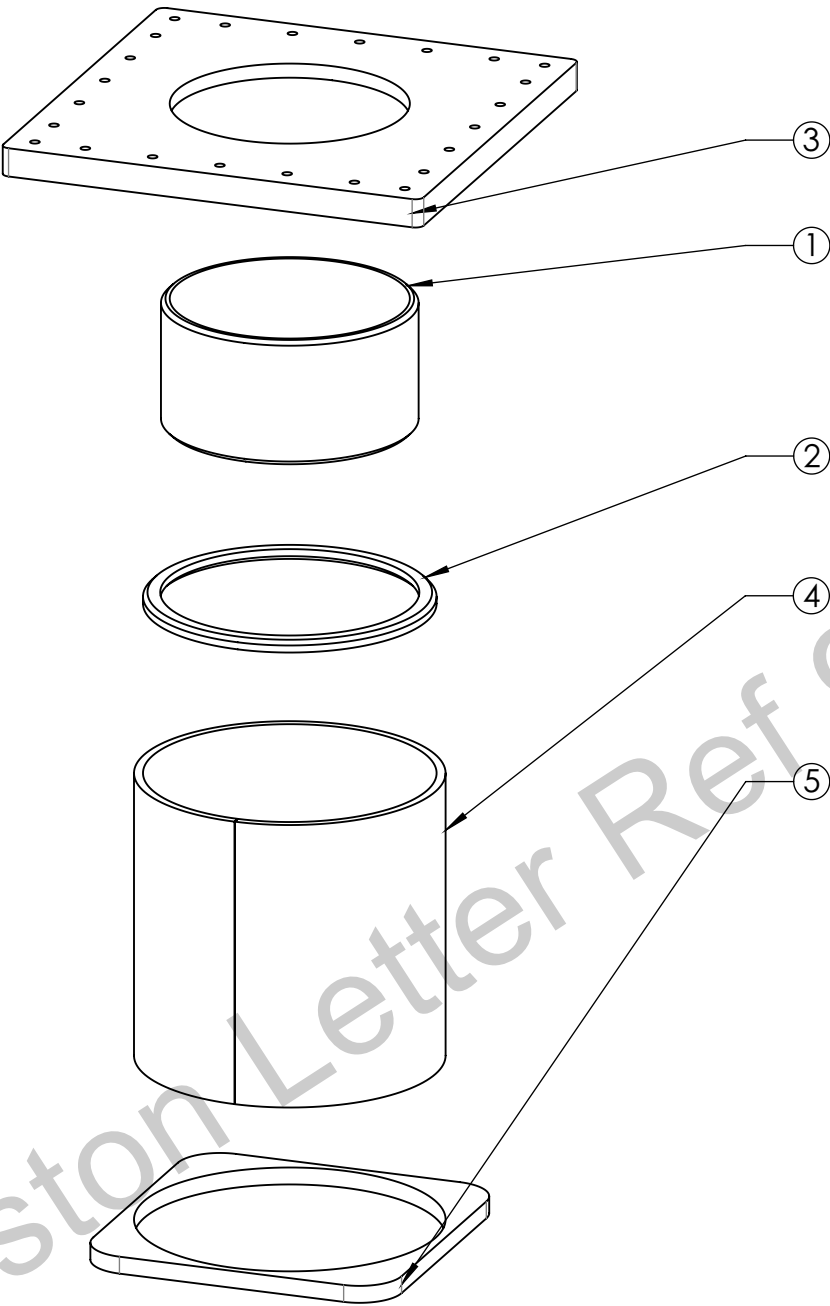
WESTERN FLYER
ABS ID: 9633788
SWATH OCEAN SYSTEMS, HULL NO: 4001
PROJECT 2899448, TASK 966678

7. PROJECT LIBRARY:\300058_DMO_Western-Flyer\HydraphonePole\HydraphonePole_NEW\LowerAssem
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	J. ERICKSON	10/16/12
Shop Foreman			2 PLACE DIM ±.02	J. ERICKSON	10/16/12
Engineer			3 PLACE DIM ±.005		
			ANGLES ±.5°		
NEXT ASSY Description	NEXT ASSY Number		1. DIMENSIONS ARE IN INCHES	PROJECT NO.	300058
			2. DIMENSION LIMITS HELD AFTER PLATING.	PROJECT	DMO W.F.
			3. REMOVE BURRS AND SHARP EDGES .015 MAX.	WEIGHT	53.982
			4. MACHINED FILLET RADII .015-.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.		
Application			DO NOT SCALE DRAWING		
				SCALE	1:8
				CAD FILE:	MECH ENG ON TORNADO
				SHEET	1 OF 2

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.

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



5	1	P-201438-12	Hull Matching Bottom Ring - Main Guide Tube		MBARI	5086 (H34)
4	1	P-201439-12	Bottom Rolled Plate Ring - Main Guide Tube		MBARI	5086 (H34)
3	1	P-201437-12	Hull Main Mounting Flange Spacer Plate		MBARI	5986 (34)
2	1	P-201436-12	Bottom Weld Ring - Main Guide Tube		MBARI	5086 (H34)
1	1	P-201429-12	Lower Guide Tube NEW (Part #4)		MBARI	Aluminum 6061-T6
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	10/16/12					
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	10/16/12					
Engineer						CHECKED							
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO.	30058	PROJECT	DMO W.F.	W.F. Hyrdrophone Pole Lower Guide Tube Weldment Assembly			
										SIZE B	DWG. NO.	A-201440-12.DWG	REV.
Application		DO NOT SCALE DRAWING				WEIGHT		53.982 lb.	SCALE 1:8 CAD FILE: MECH ENG ON TORNADO SHEET 2 OF 2				

7. PROJECT LIBRARY:\300058_DMO_Western-Flyer\HydraphonePole\HydraphonePole_NEW\LowerAssem
NOTES: (CONT. FROM TITLE BLOCK)