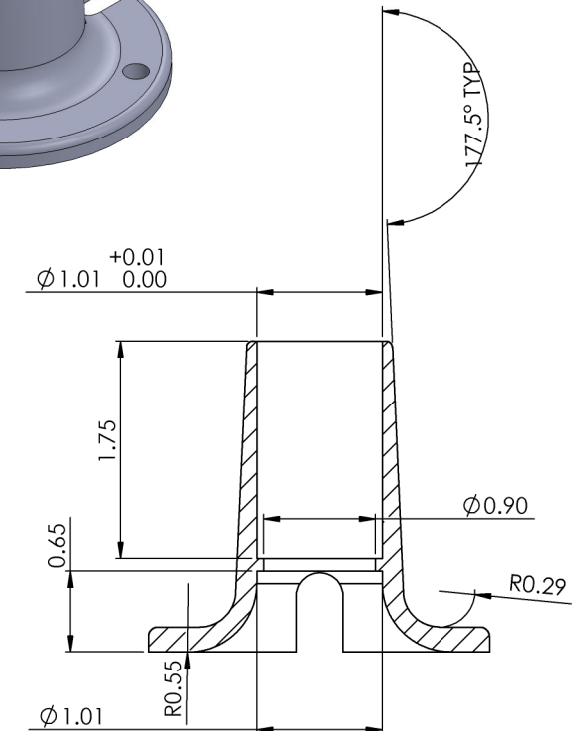
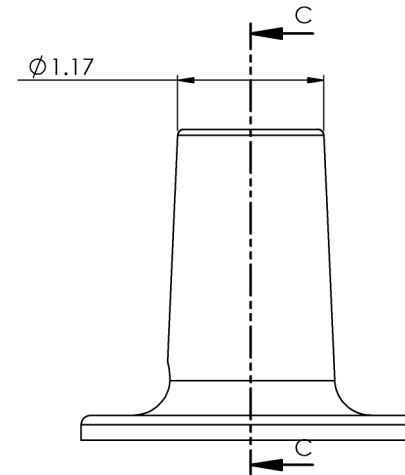
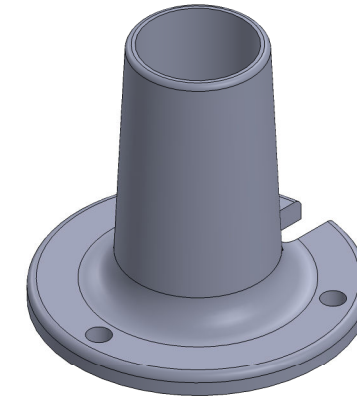


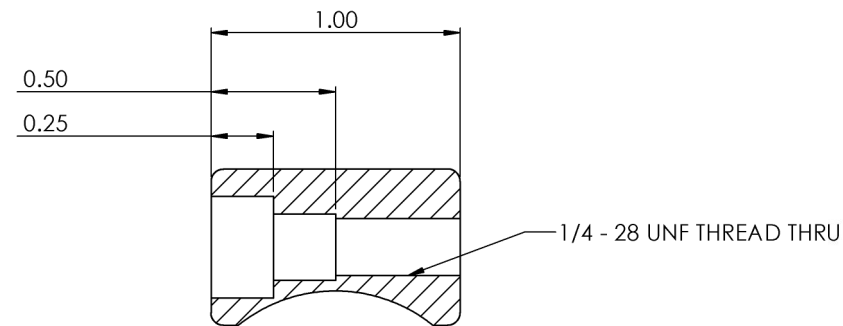
5. Title and copyright to the documentation and to any associated documentation shall at all times remain with MBARI, and RECIPIENT agrees to preserve same. RECIPIENT agrees not to make any copies except for its internal use without prior written consent of MBARI. RECIPIENT agrees to place the appropriate MBARI copyright notice on any such copies.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	10020997-06_AntennaTubeThick	Tube, stock, fabric, 0.750 X 0.878 X 72 in., vendor: Rock West Composites	1
2	10020997-04_AntennaLowerFerrule	TITANIUM FERRULE 0.898 ID X 1.00 OD X 2.0"	1
3	10020997-05_AntennaUpperFerrule	TITANIUM FERRULE 0.898 ID X 1.00 OD X 1.0"	1
4	10020997-08_Antcom3DX-X-PXPTB-2-UAntenna	ANTCOM ANTENNA IN CUSTOM WATER EMERSION TOLERANT CONFIGURATION.	1
5	10020997-01_AntennaBase	316L SST ANTENNA BASE ASSEMBLY.	1
6	10020997-02_AntennaBase_Clamp	PART OF ANTENNA BASE ASSEMBLY	1
7	92185A561	1/4 - 28 X 3/4 ALLEN HEAD CAP SCREW 316 SST	1

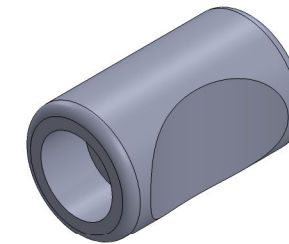
Shop / Q.C.				UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE		Monterey Bay Aquarium Research Institute	
Inspector				THICKNESS FRACTION ± .005	FACE SURF. FRACTION ± .005	WELD FRACTION ± .005	DRAWN MPC	05/11/2013	MBARI 7700 Sandhaldt Rd. Mar. Landing, CA 94039 PH: (831) 775-1700
Shop Foreman				1. DIMENSIONS ARE IN INCHES.			ENGINEER		
Engineer				2. DIMENSIONS LIMITS HELD AFTER PLATING.			MARK CHAFFEY (831) 775-1708 mchaff@mbari.org		
NEXT ASY Description	NEXT ASY Number			3. REMOVE BURRS AND SHARP EDGES TO .030 MAX.			PROJECT NO. 901010		
				4. MACHINED FLAT FACES TO .010.			PROJECT NAME Autonomy		
				5. MACHINED DIMETERS ON A COMMON CENTERLINE CONCERNING WITHIN .010.			SCALE DWG. NO. 10020997-ASM-B		REV. B
				6. REPERFORATE WITH A PATTERN OF MACHINED SURFACES .001 PER HOLE MAX. 0.12 INCHES FOR SINGLE SURFACE.			SCALE SCALE		REV. B
APPLICATION				DO NOT SCALE DRAWING			C.A.D. FILE		SHEET 1 OF 4



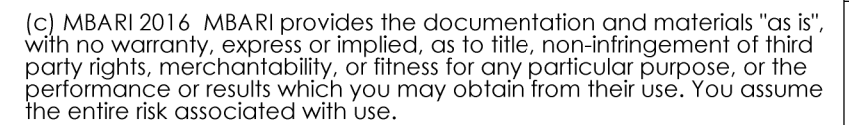
SECTION C-C



SECTION D-D
SCALE 2 : 1



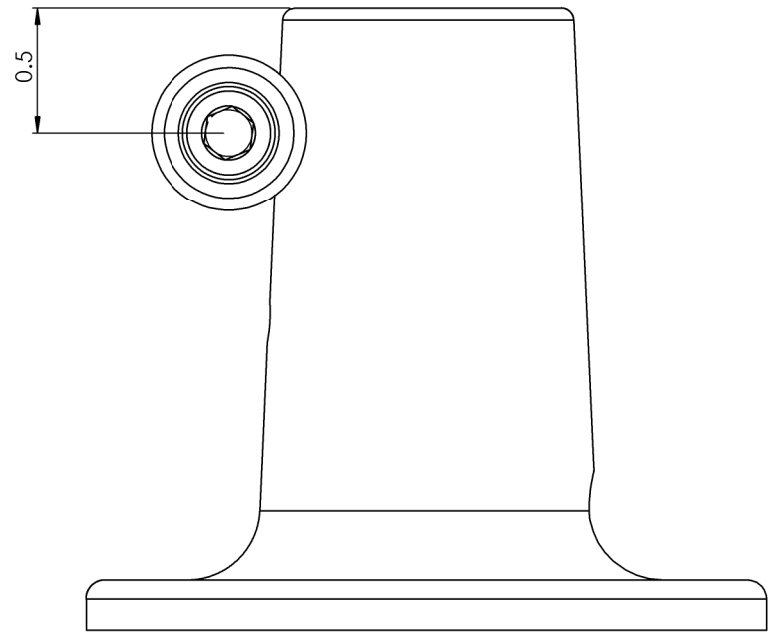
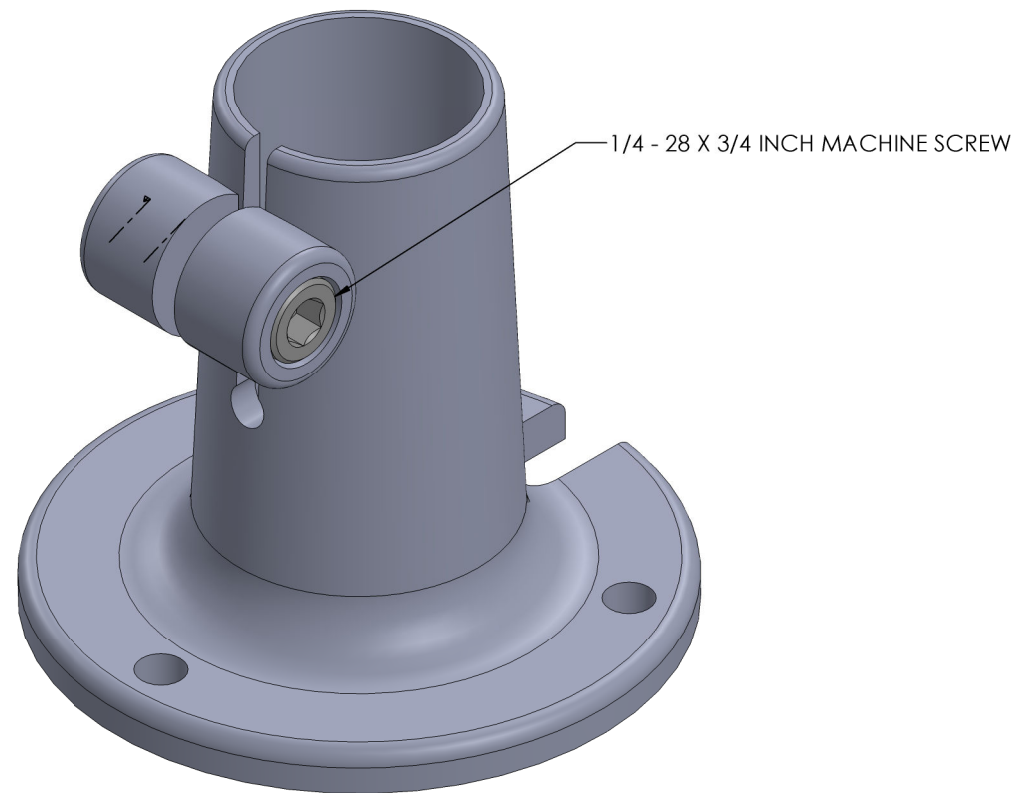
CLAMP PART NUMBER 10020997-02



NOTES:

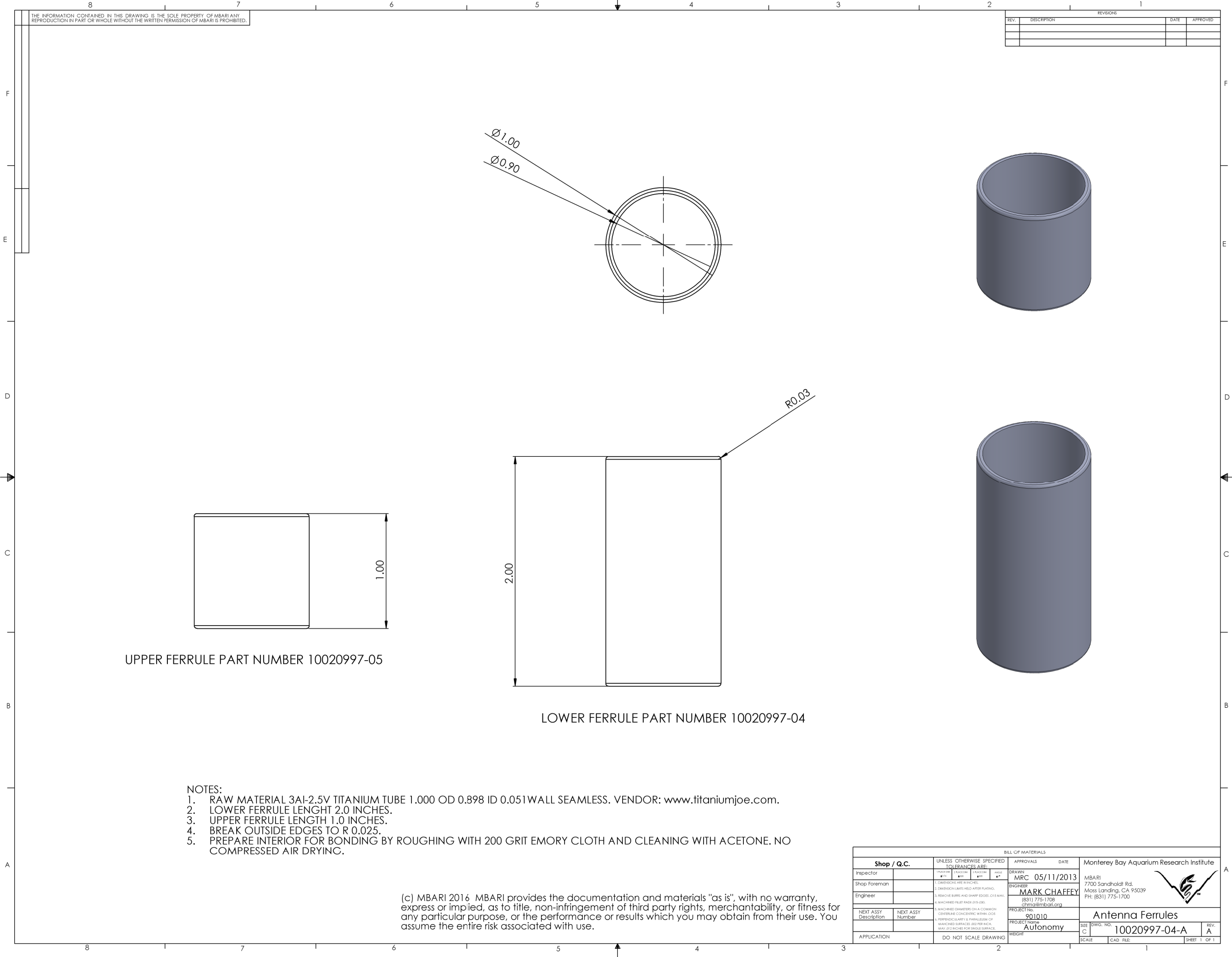
1. ALL MATERIALS 316L STAINLESS STEEL.
2. ALL SOLID MODEL LOCATION: \\Atlas\ProjectLibrary\901411.HotSpot\EngineeringDesignDocumentation\MechanicalDesign\SV3_Antenna&MountDesign

BILL OF MATERIALS									
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	
Inspector		TYPICAL WITH .001"	FACE SURF. WITH .001"	FINISH SURF. WITH .001"	WELD AS SHOWN	MRC 05/08/2013		Monterey Bay Aquarium Research Institute	
Shop Foreman		1. DIMENSIONS ARE UNLESS NOTED.				MARK CHAFFEY (831) 775-1708 chm@mbari.org		MBARI 7700 Sandhill Rd. Moss Landing, CA 95039 Ph: (831) 775-1700	
Engineer		2. DIMENSIONS HELD AFTER PLATING.							
NEXT ASSY Description		NEXT ASSY Number		3. REMOVE BURRS AND SHARP EDGES. (3) MAX. 4. MACHINED FLAT MAX .015 DIA. 5. MACHINED DIMENSIONS ARE 1.0000 CENTERLINE CONCENTRIC WITH OTHER OS 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES AND TYPICAL RICH MAX .012 REQUIRED FOR SHAPE SURFACE.					
APPLICATION		DO NOT SCALE DRAWING				PROJECT No. 01010 OR Autonomy		Antenna Base and Clamp	
						WEIGHT		REV A	
						SCALE		OF 1	
						CAD FILE		10020997-01-A	
								SHEET 1	



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BILL OF MATERIALS									
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS DATE		Monterey Bay Aquarium Research Institute	
Inspector		1. FRACTION FRACTION FRACTION FRACTION	2. DECIMAL DECIMAL DECIMAL DECIMAL	3. ANGLES ANGLES ANGLES ANGLES	4. HOLE HOLE HOLE HOLE	DRAWN MRC 05/08/2013		MBA RI 7700 Sandholtd Rd. Moss Landing, CA 95039 PH: (831) 775-1700	
Shop Foreman		1. DIMENSIONS ARE REVERSED				ENGINEER MARK CHAFFEY (831) 775-1708 chm1@mba-ri.org			
Engineer		2. DIMENSION LINES HELD AFTER FLATING							
		3. REMOVE BURRS AND SHARP EDGES (0.015 MAX)							
NEXT ASSY Description		NEXT ASSY Number		PROJECT No. 901010		PROJECT NAME Autonomy		Antenna Base Assembly	
APPLICATION		DO NOT SCALE DRAWING		WEIGHT		SIZE C SCALE		DWG. NO.: 10020997-03-A	
						CAD FILE:		SHEET 1 OF 1	



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REV.		DESCRIPTION	REVISIONS		DATE	APPROVED

UPPER FERRULE PART NUMBER 10020997-05

LOWER FERRULE PART NUMBER 10020997-04

- NOTES:
1. RAW MATERIAL 3AI-2.5V TITANIUM TUBE 1.000 OD 0.898 ID 0.051WALL SEAMLESS. VENDOR: www.titaniumjoe.com.
 2. LOWER FERRULE LENGHT 2.0 INCHES.
 3. UPPER FERRULE LENGTH 1.0 INCHES.
 4. BREAK OUTSIDE EDGES TO R 0.025.
 5. PREPARE INTERIOR FOR BONDING BY ROUGHING WITH 200 GRIT EMORY CLOTH AND CLEANING WITH ACETONE. NO COMPRESSED AIR DRYING.

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Shop / Q.C.				UNLESS OTHERWISE SPECIFIED				APPROVALS		DATE	Monterey Bay Aquarium Research Institute	
Inspector				TOLERANCES ARE:				DRAWN	MRC	05/11/2013	MBARI 7700 Sandholdt Rd. Moss Landing, CA 95039 PH: (831) 775-1708 chm@mbat.org	
Shop Foreman				1. FRACTIONAL DECIMALS				ENGINEER	MARK CHAFFEY			
Engineer				2. DIMENSIONS ARE IN INCHES.				PROJECT NO.		901010		
				3. DIMENSIONS UNITS HELD AFTER PLATING.				PROJECT NAME		Autonomy	Antenna Ferrules	
				4. REMOVE BURRS AND SHARP EDGES (0.15 MAX).				SIZE	C		DWG. NO.	10020997-04-A
				5. MACHINED FULLER RADIUS (0.15-0.20).				WEIGHT			SCALE	1
				6. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCERNING WITH (0.05).							CAD FILE	
				7. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES (0.02 PER INCH).							SHEET	1 OF 1
				8. MAX. 0.015 INCHES FOR SINGLE SURFACE.								
APPLICATION				DO NOT SCALE DRAWING								

