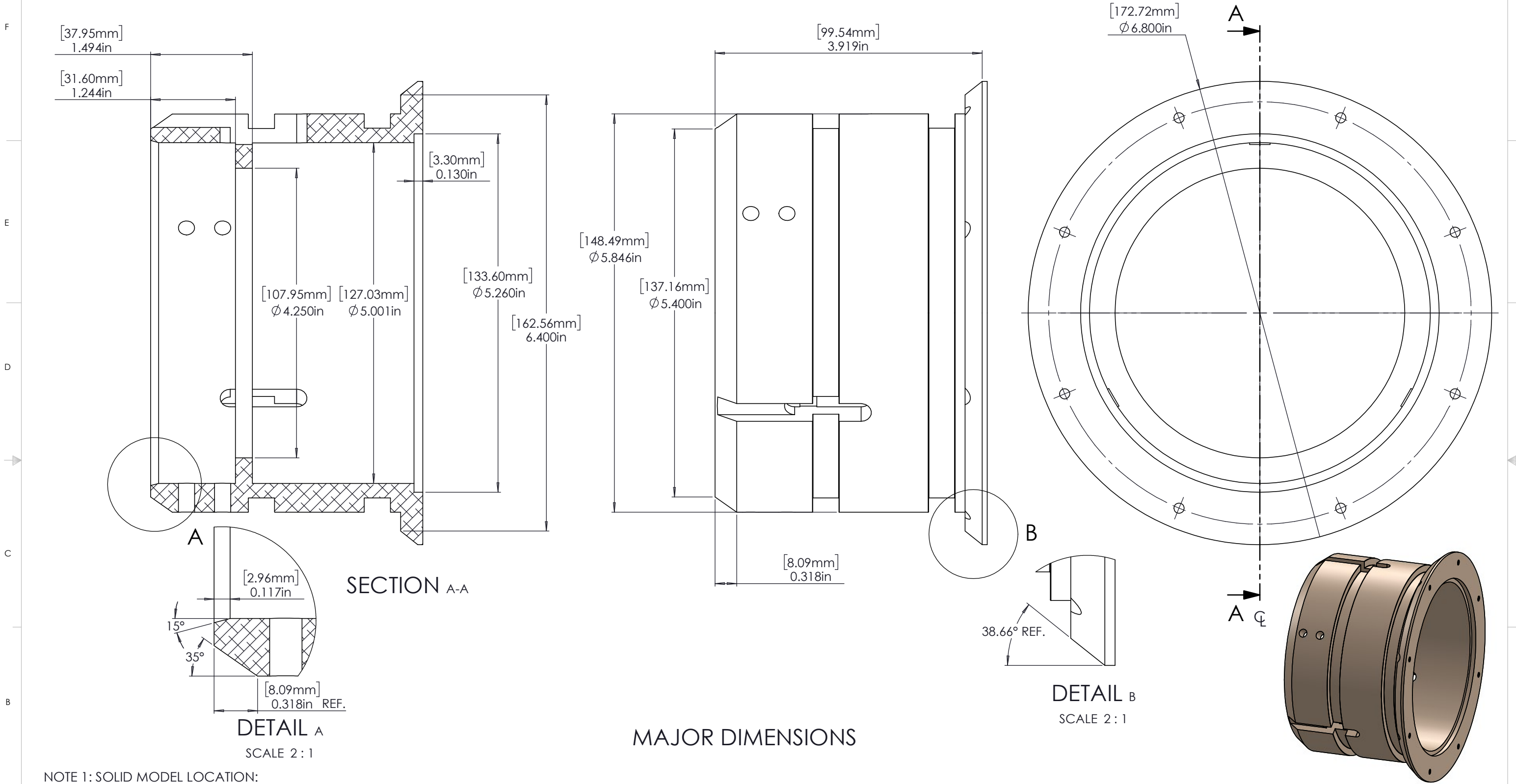


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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	ADDED HOLE MASKING CALLOUT	03/12/2021	
C	XX	XX/XX/202X	



NOTE 1: SOLID MODEL LOCATION:
\\atlas\ProjectLibrary\902001_4K_ROVCameraDevelopment\EngineeringDesignDocuments\MechanicalDesign\4K_CameraChassis\100221414-04-A_ChassisAlignmentCone.SLDPRT

NOTE 2: MATERIAL 7075 T6 ALUMINUM.

NOTE 3: ANODIZE PART TO 0.0008 AVERAGE COATING THICKNESS TO MIL-A-8625, Type II, Class 2, color: GOLD. NOTE MASKING CALL-OUTS (IF ANY).

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Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS		DATE	
Inspector		1 PLACE DIM ±.010	2 PLACE DIM ±.005	3 PLACE DIM ±.003	ANGLE ±.1°	DRAWN MRC	12/10/2020
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILET RADI .015-.020. 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 MARK R. CHAFFEY	
Engineer						(831) 775-1708 chma@mbari.org	
NEXT ASSY Description	NEXT ASSY Number	PROJECT No.		PROJECT Name		SIZE	
		902001		4K ROV CAMERA		C	
APPLICATION		DO NOT SCALE DRAWING		WEIGHT		DWG. NO.	
						100221414-04-B-DWG	
						SCALE	
						CAD FILE:	
						REV.	
						B	
						SHEET 1 OF 6	



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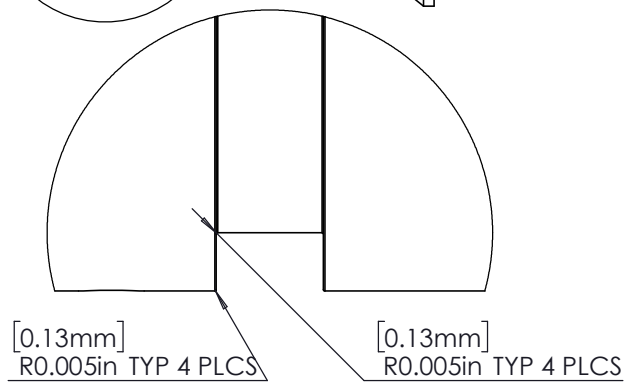
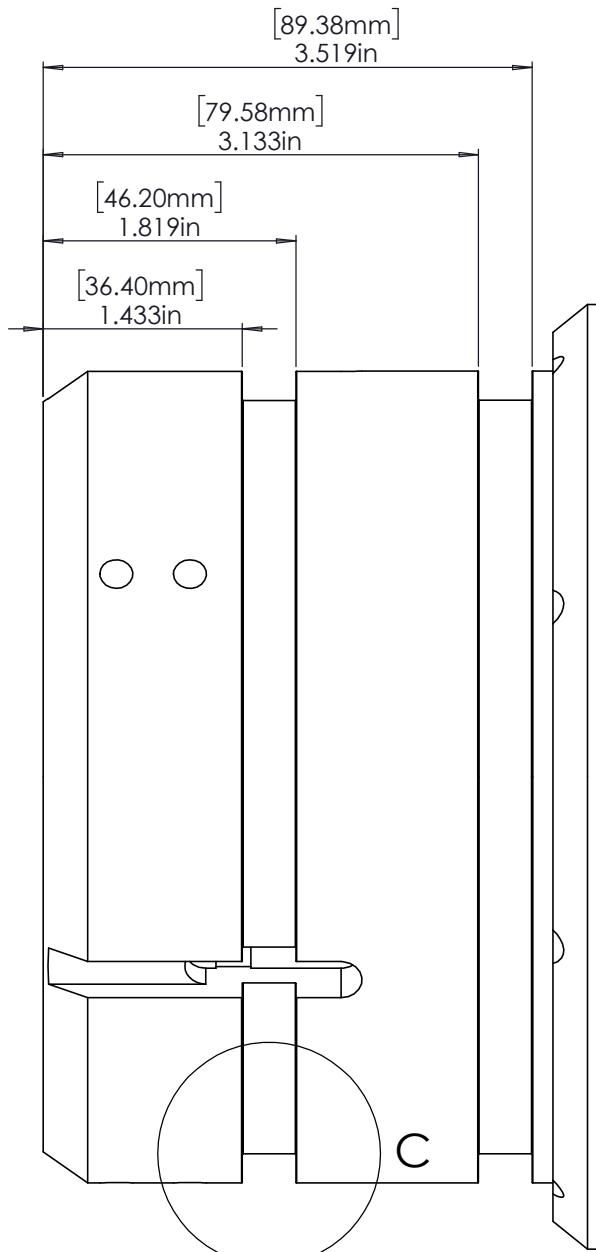
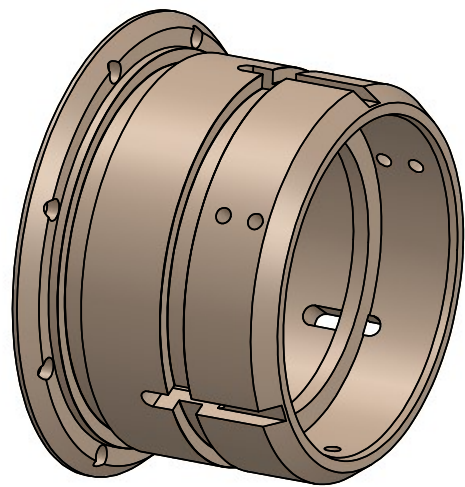
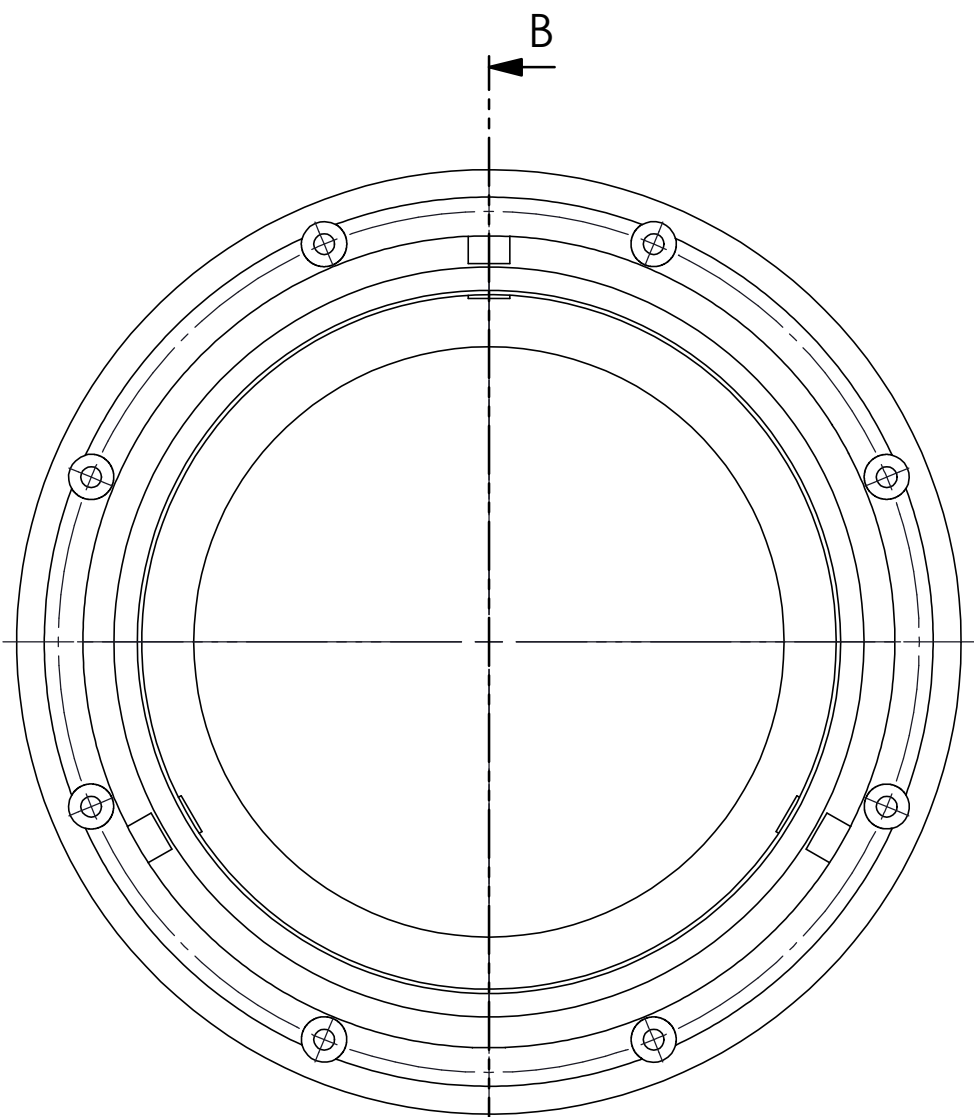
4K Camera Chassis Alignment Cone

DWG. NO. 100221414-04-B-DWG

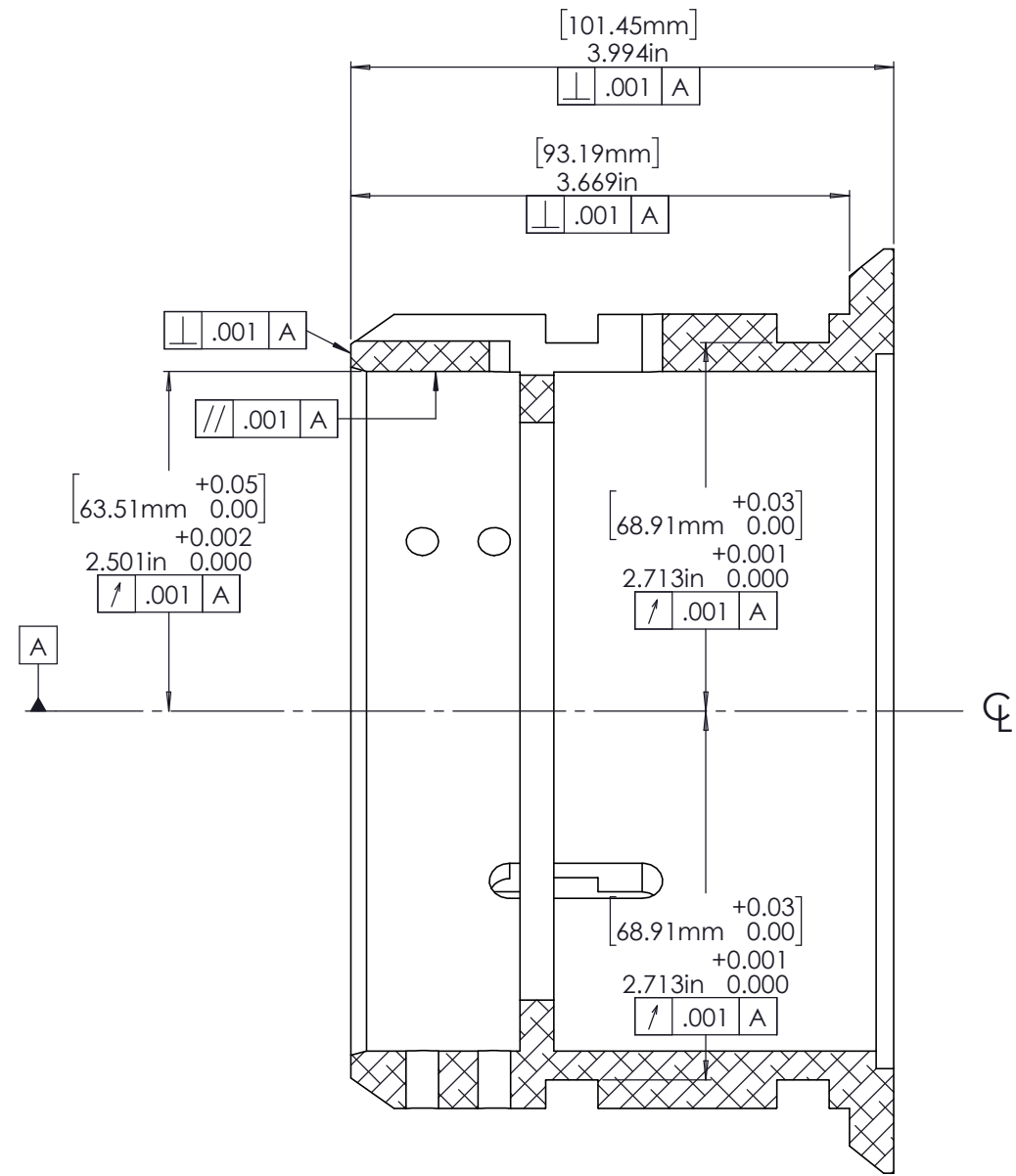
REV. B

SHEET 1 OF 6

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DETAIL C
SCALE 2 : 1



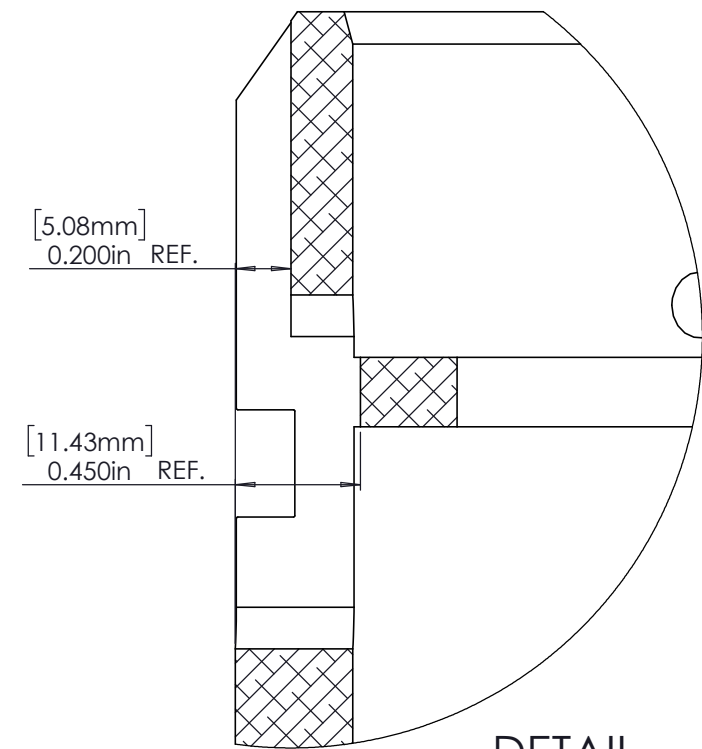
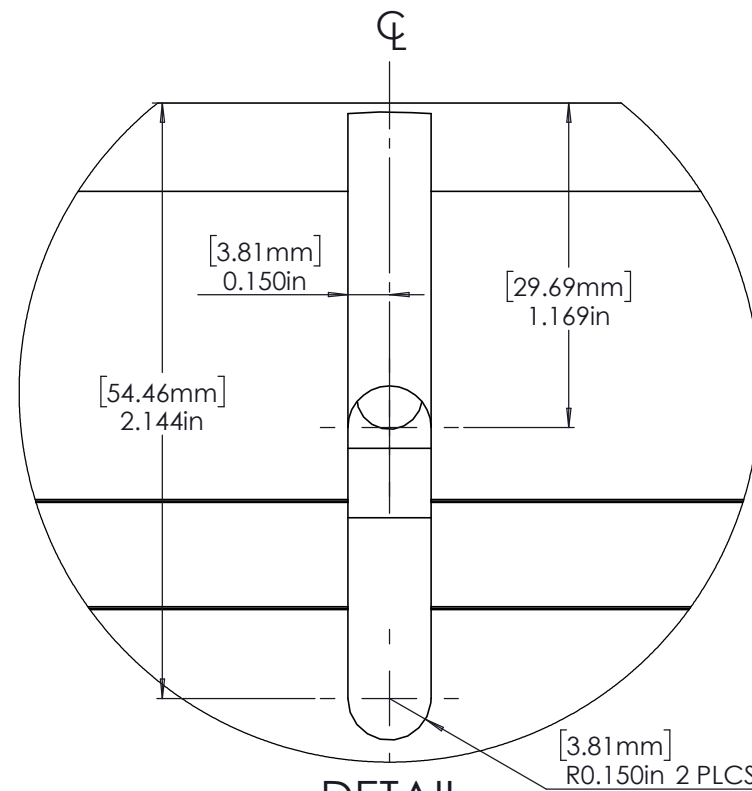
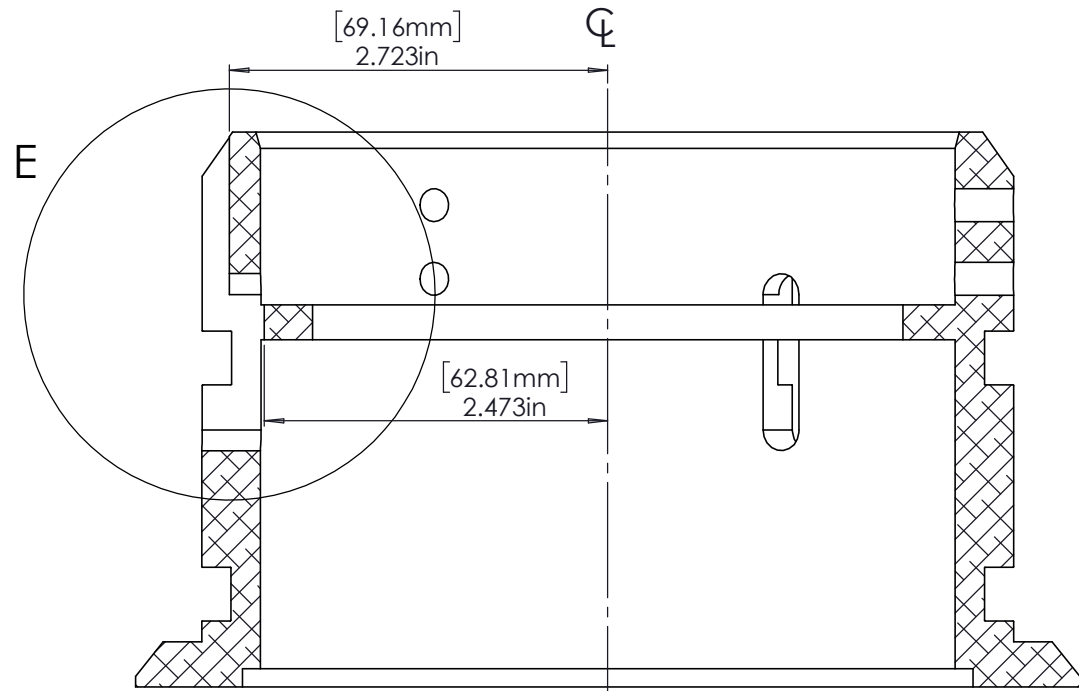
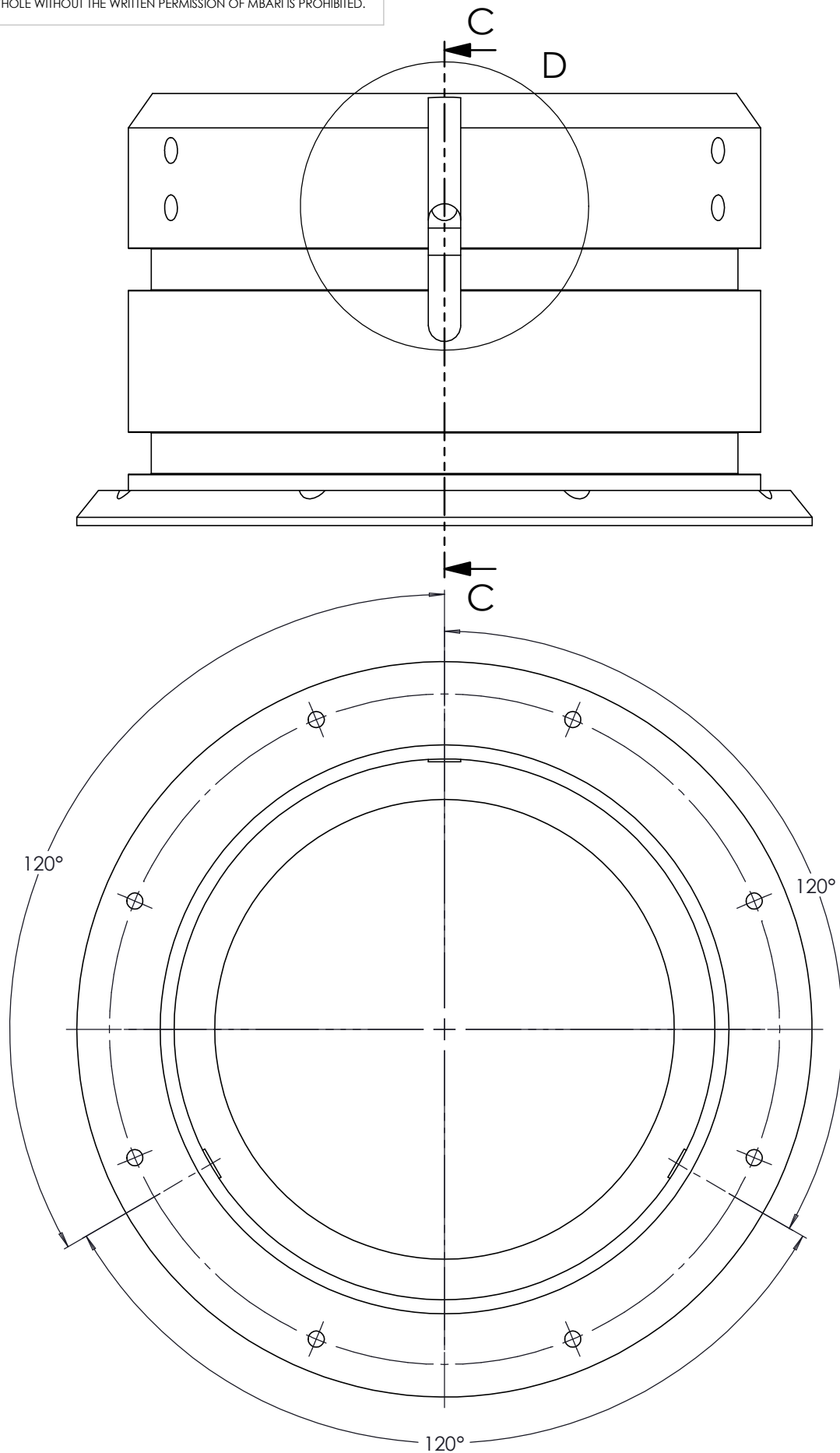
SECTION B-B
CRITICAL DIMENSIONS

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		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS		DATE		
Shop / Q.C.					DRAWN		12/10/2020		
Inspector		1 PLACE DIM ±.01	2 PLACE DIM ±.005	3 PLACE DIM ±.005	ANGLE ±.005	ENGINEER			
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADI .015-.020. 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.				MARK R. CHAFFEY (831) 775-1708 mrc@mbari.org			
Engineer						PROJECT No. 902001			
NEXT ASSY Description						NEXT ASSY Number		4K Camera Chassis Alignment Cone	
APPLICATION		DO NOT SCALE DRAWING				PROJECT Name	SIZE C	DWG. NO. 100221414-04-B-DWG	REV. B
						4K ROV CAMERA	SCALE	CAD FILE:	SHEET 2 OF 6



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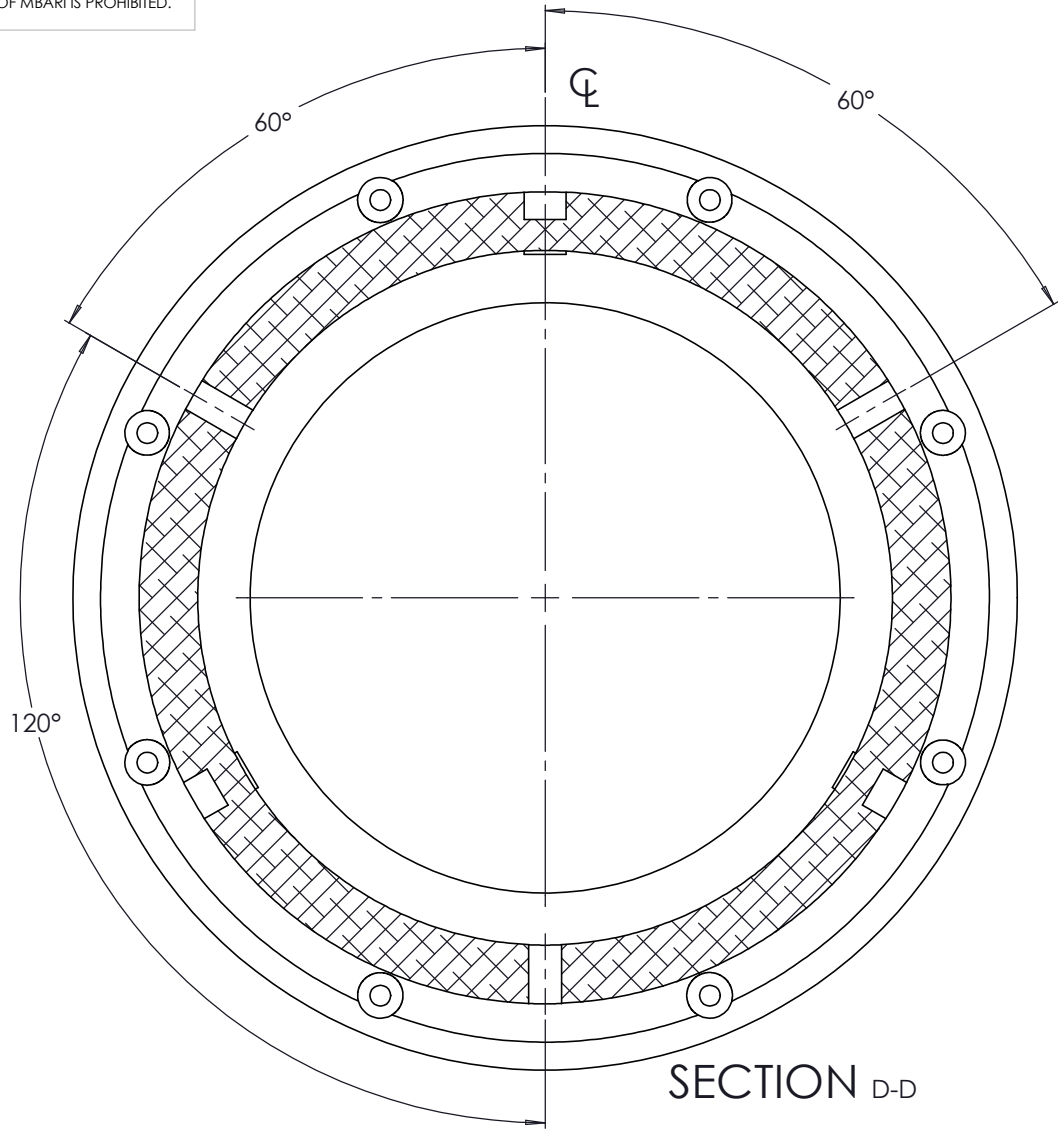


SLOT DIMENSIONS

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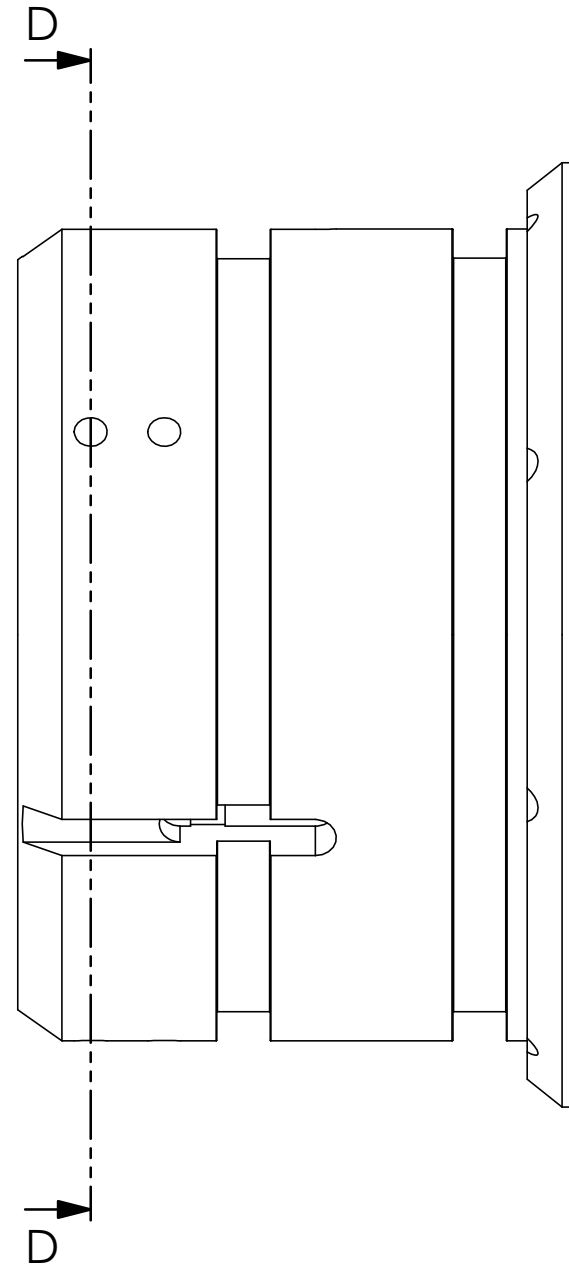
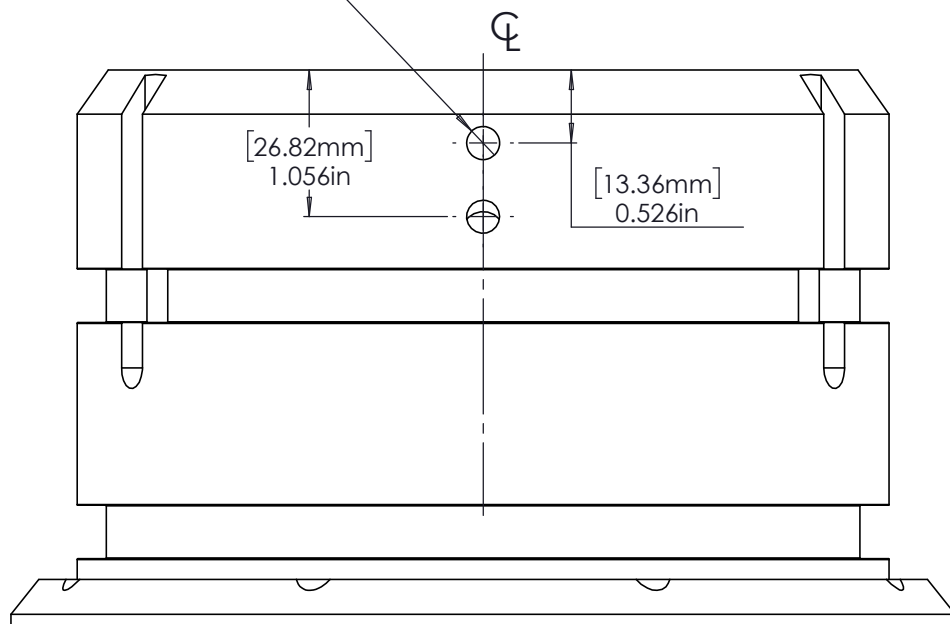
Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		 MBARI Monterey Bay Aquarium Research Institute			
Inspector		1 PLACE DIM ±.016	2 PLACE DIM ±.005	3 PLACE DIM ±.003	ANGLE ±.1°	DRAWN MRC	12/10/2020			MBARI 7700 Sandholdt Rd. Moss Landing, CA 95039 PH: (831) 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 FILET RADI .015-.020. 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	MARK R. CHAFFEY (831) 775-1708 cchm@mbari.org			4K Camera Chassis Alignment Cone			
Engineer						PROJECT No.	902001						
NEXT ASSY Description	NEXT ASSY Number					PROJECT Name	4K ROV CAMERA						
APPLICATION		DO NOT SCALE DRAWING				WEIGHT	SIZE C	DWG. NO. 100221414-04-B-DWG		REV. B			
						SCALE	CAD FILE:			SHEET 3 OF 6			

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SECTION D-D

[6.05mm]
Ø0.238in DRILL & TAP 1/4-80 CLASS 3A THREAD THRU ALL - 6 PLCS



THREADED HOLE DIMENSIONS

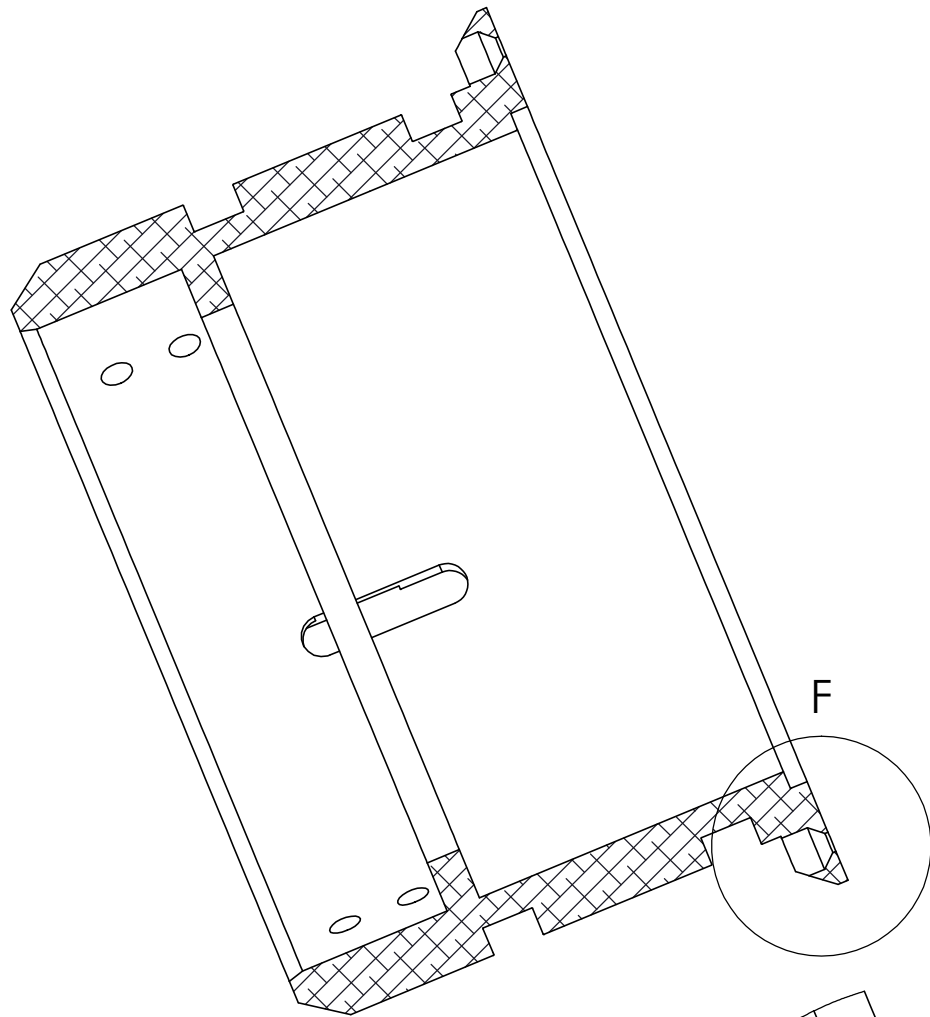
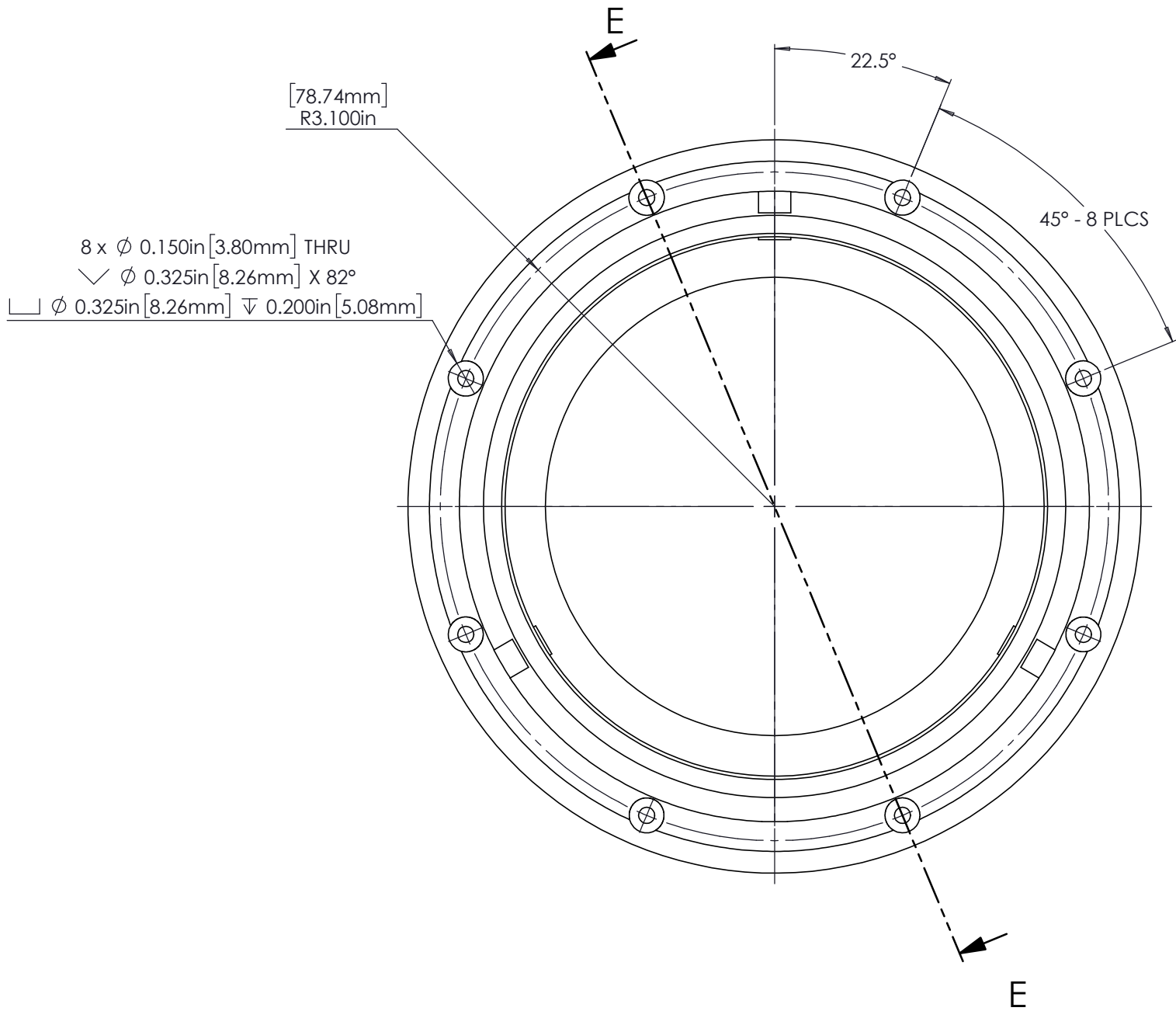
Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	
Inspector		1 PLACE DIM ±.015	2 PLACE DIM ±.005	3 PLACE DIM ±.005	ANGLE ±.1°	DRAWN MRC		12/10/2020	
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADI .015-.020. 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			
Engineer						MARK R. CHAFFEY			
						(831) 775-1708 c3ma@mbari.org			
NEXT ASSY Description	NEXT ASSY Number					PROJECT No.	902001	4K Camera Chassis Alignment Cone	
						PROJECT Name	4K ROV CAMERA	SIZE C	REV. B
APPLICATION		DO NOT SCALE DRAWING				WEIGHT		DWG. NO. 100221414-04-B-DWG	
						SCALE	CAD FILE:	SHEET 4 OF 6	



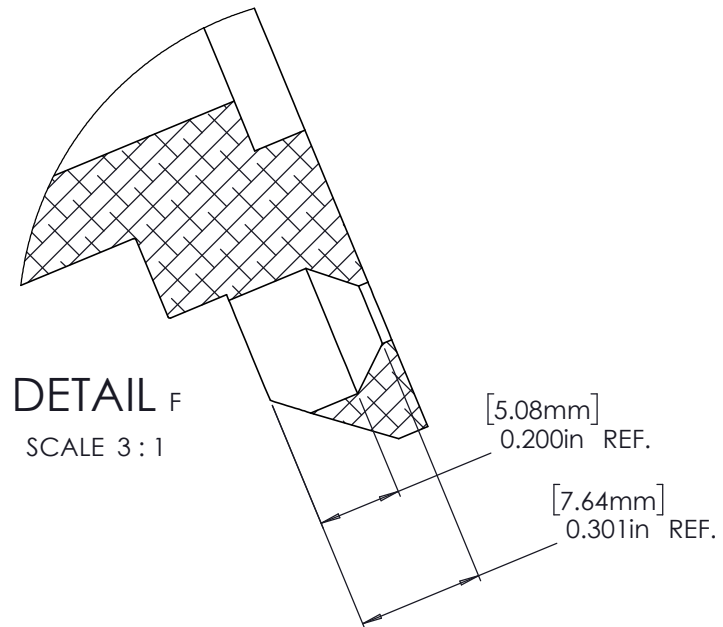
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SECTION E-E
SCALE 1 : 1



DETAIL F
SCALE 3 : 1

MOUNTING CLEARANCE HOLE DIMENSIONS

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Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS DATE	
Inspector		1 PLACE DIM ±.016	2 PLACE DIM ±.001	3 PLACE DIM ±.005	ANGLE ±°	DRAWN MRC 12/10/2020
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADI .015-.020. 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 MARK R. CHAFFEY (831) 775-1708 mrc@mbari.org
Engineer						PROJECT No. 902001
NEXT ASSY Description	NEXT ASSY Number					PROJECT Name 4K ROV CAMERA
APPLICATION		DO NOT SCALE DRAWING		WEIGHT		SIZE C
						DWG. NO. 100221414-04-B-DWG
						SCALE
						CAD FILE:
						REV. B
						SHEET 5 OF 6

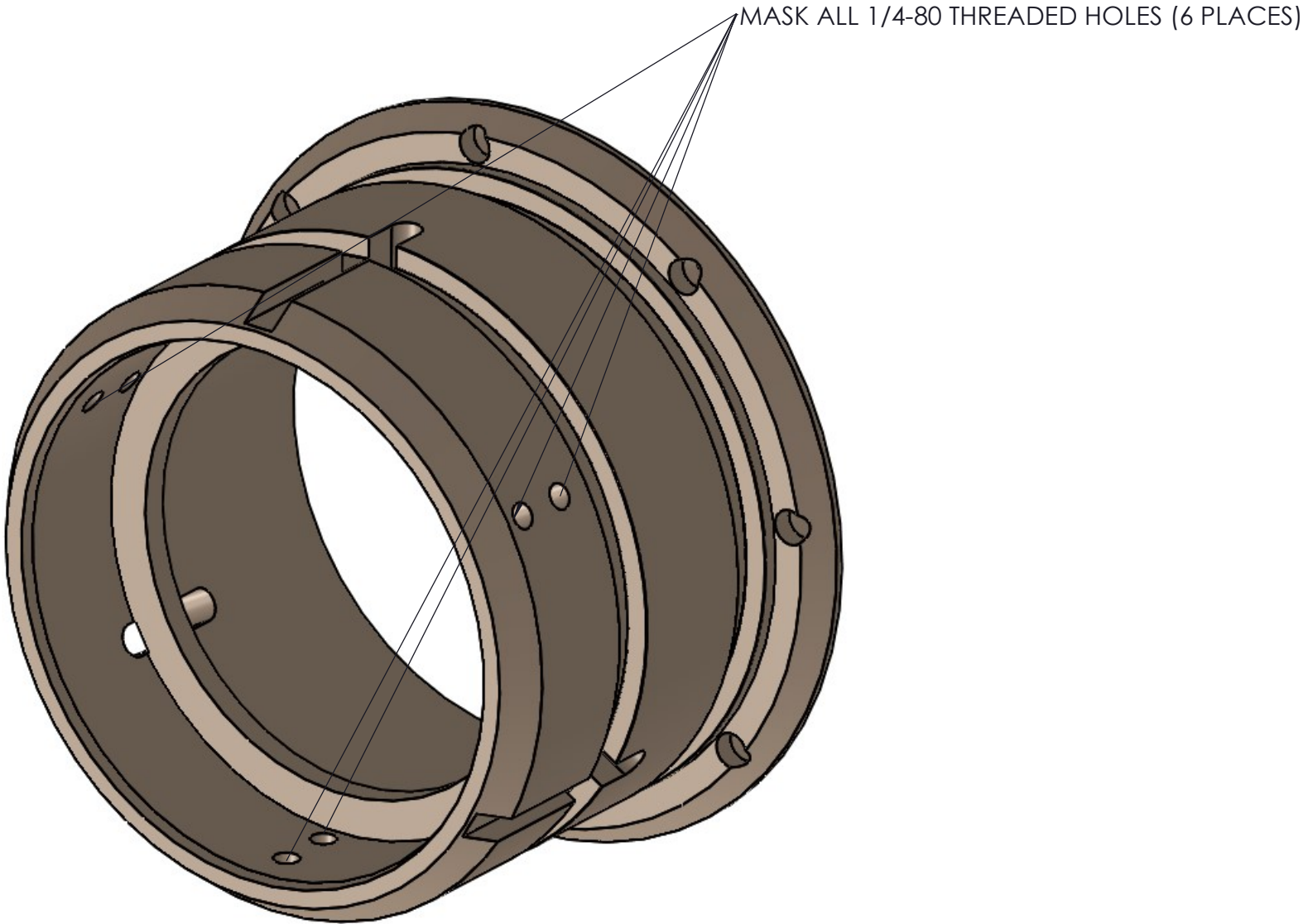


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4K Camera Chassis Alignment Cone

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	XX	XX/XX/202X	
C	XX	XX/XX/202X	



ANODIZE HOLE MASKING CALLOUT

NOTE 2: ANODIZE PART TO 0.0008 AVERAGE COATING THICKNESS TO MIL-A-8625, Type II, Class 2, color: GOLD. NOTE MASKING CALL-OUTS.

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Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	
Inspector		1 PLACE DIM ±.016	2 PLACE DIM ±.005	3 PLACE DIM ±.005	ANGLE ±°	DRAWN MRC		03/12/2021	
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADIUS .015-.020. 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			
Engineer						MARK R. CHAFFEY			
NEXT ASSY Description	NEXT ASSY Number					(831) 775-1708 c3ma@mbari.org			
APPLICATION		DO NOT SCALE DRAWING		WEIGHT		PROJECT No.	902001	4K CAMERA CHASSIS ALIGNMENT CONE	
						PROJECT Name	4K ROV CAMERA	SIZE C	DWG. NO. 100221414-04-B-DWG
						SCALE	CAD FILE:	REV. B	SHEET 6 OF 6

