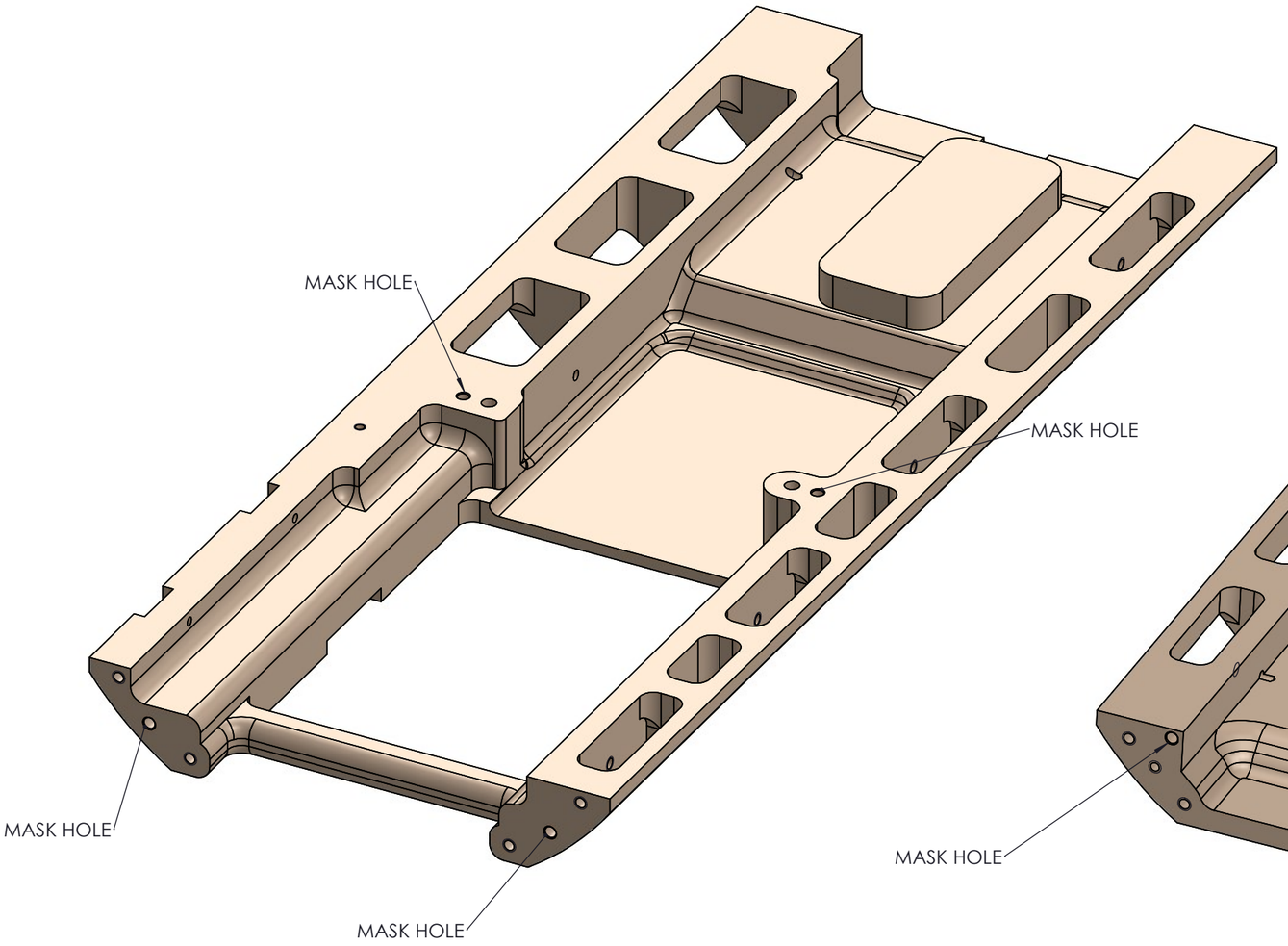
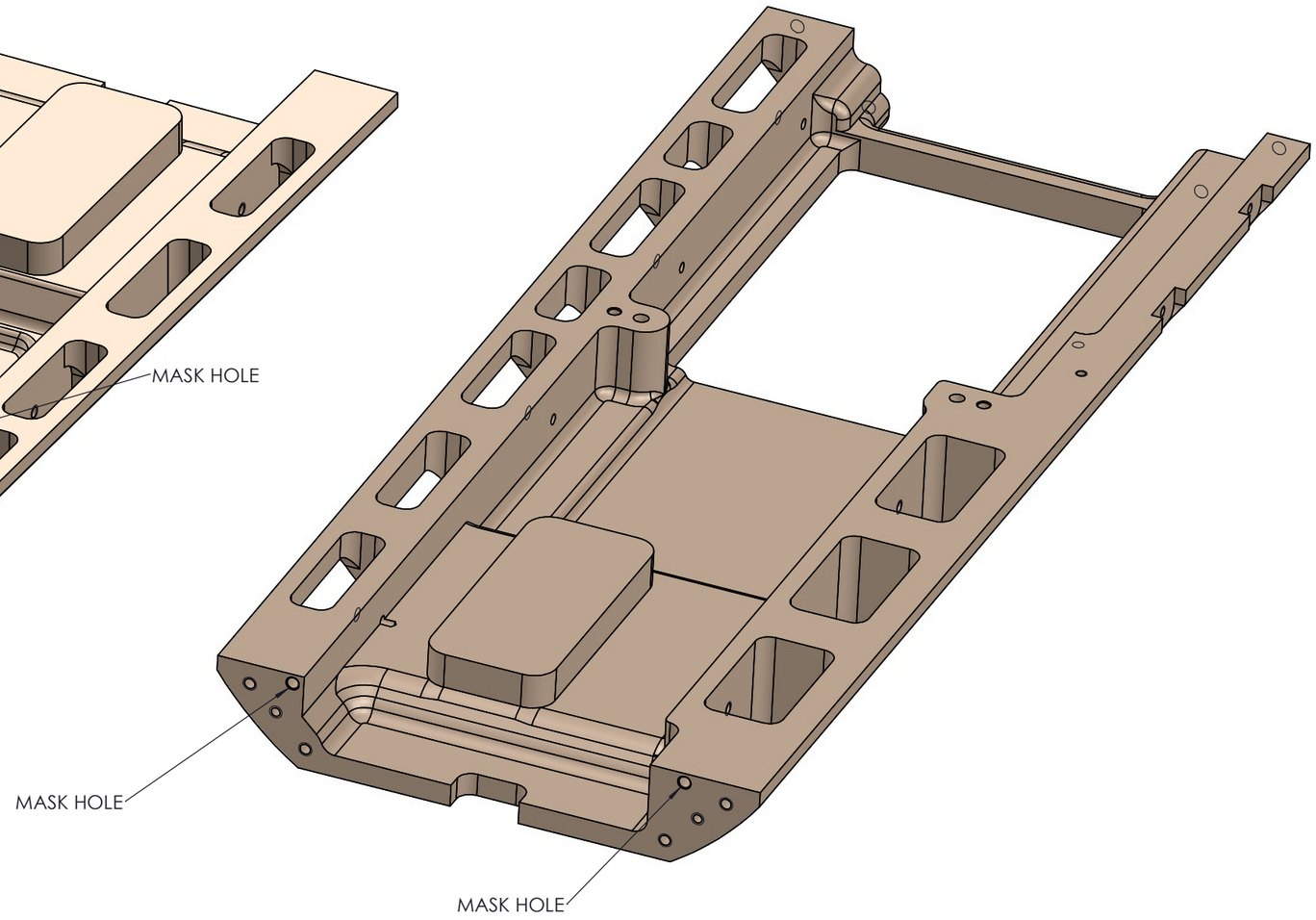




ANODIZING MASKING CALLOUT

NOTE 5. ANODIZE PART TO 0.0008 AVERAGE COATING THICKNESS TO MIL-A-8625, Type II, Class 2, color: GOLD. NOTE MASKING CALL-OUTS.

		BILL OF MATERIALS	APPROVALS	DATE
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		
Inspector		1 PLACE DIM ±1/16 · 2 PLACE DIM ±.020 · 3 PLACE DIM ±.005 · ANGLE ±1°	DRAWN MRC	12/14/2020
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET 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.	ENGINEER MARK R. CHAFFEY	
Engineer			(831) 775-1708 chma@mbari.org	
NEXT ASSY Description	NEXT ASSY Number		PROJECT No. 902001	
			PROJECT Name 4K ROV CAMERA	
APPLICATION		DO NOT SCALE DRAWING	WEIGHT	

MBARI
7700 Sandholdt Rd.
Moss Landing, CA 95039
PH: (831) 775-1700

MBARI Monterey Bay Aquarium Research Institute

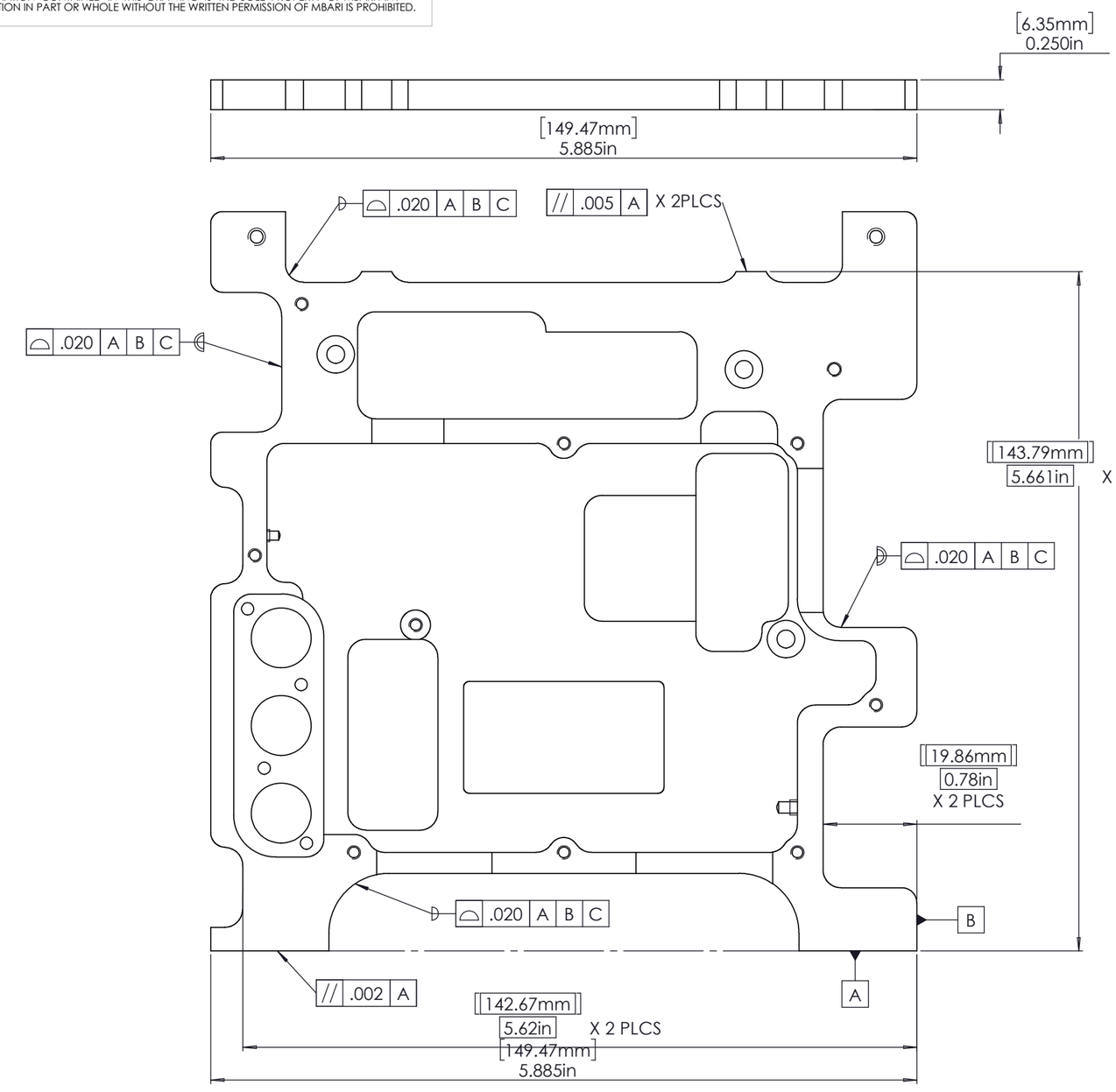
4K CAMERA CHASSIS BASE PLATE

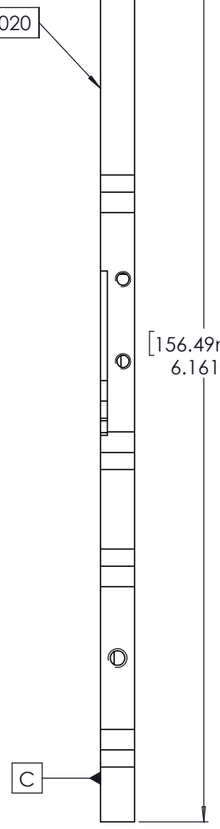
SIZE	DWG. NO.	REV.
C	100221414-02-A-DWG	A

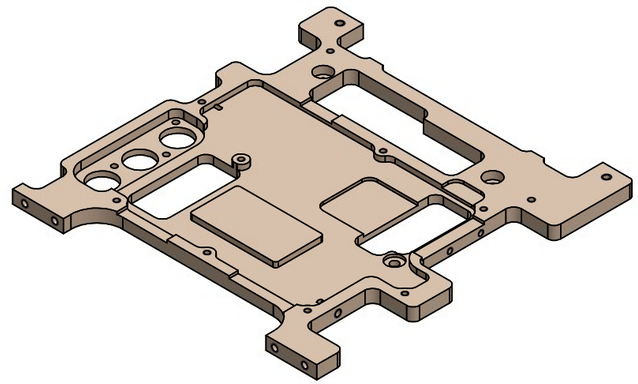
SCALE	CAD FILE:	SHEET 1 OF 10

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
B	Increase cutout for capacitor C72	04/21/2021	
C	XX	XX/XX/202X	







EXTERNAL DIMENSIONS

NOTE 1. SOLID MODEL LOCATION:
\\atlas\ProjectLibrary\902001_4K_ROVCameraDevelopment\EngineeringDesignDocuments\MechanicalDesign\4K_CameraChassis\100221414-09-B_ChassisTopPlate.SLDPRT

NOTE 2. MATERIAL: 6061 T6 ALUMINUM ALLOY.

NOTE 3: ANODIZE PART TO 0.0008 AVERAGE COATING THICKNESS TO MIL-A-8625, Type II, Class 2, color: GOLD.

Shop / Q.C.		BILL OF MATERIALS	APPROVALS DATE
Inspector		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: 1 PLACE DIM ±1/16 · 2 PLACE DIM ±.020 · 3 PLACE DIM ±.005 · ANGLE ±1°	DRAWN MRC 01/12/2021
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET 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.	ENGINEER MARK R. CHAFFEY
Engineer			(831) 775-1708 chma@mbari.org
NEXT ASSY Description	NEXT ASSY Number		PROJECT No. 902001
			PROJECT Name 4K ROV CAMERA
APPLICATION		DO NOT SCALE DRAWING	WEIGHT

MBARI
7700 Sandholdt Rd.
Moss Landing, CA 95039
PH: (831) 775-1700

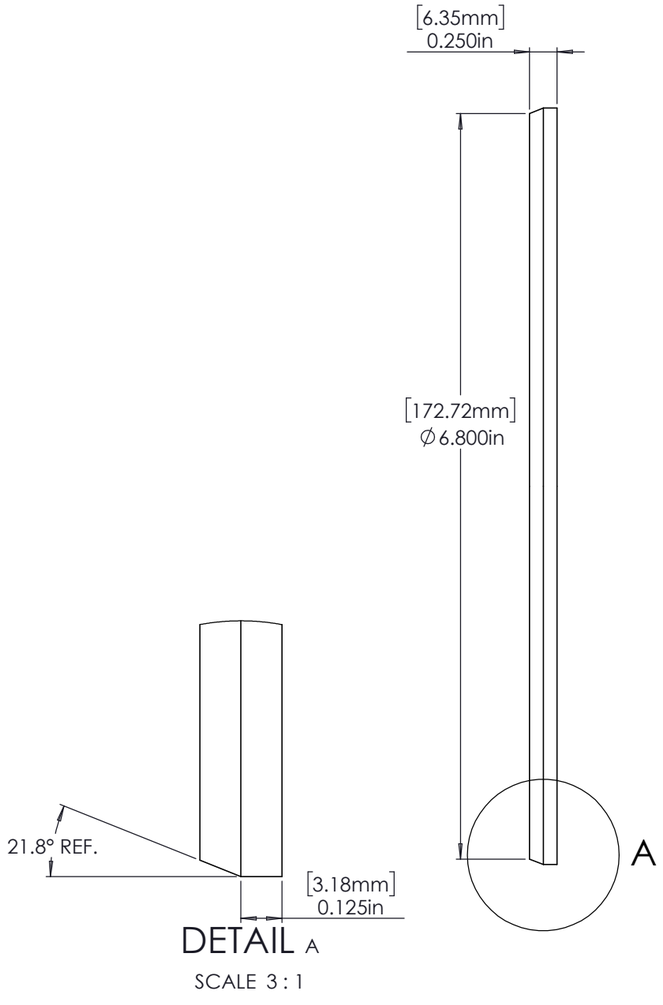
MBARI Monterey Bay Aquarium Research Institute

4K CAMERA CHASSIS TOP PLATE

SIZE C | DWG. NO. 100221414-09-B-DWG | REV. B

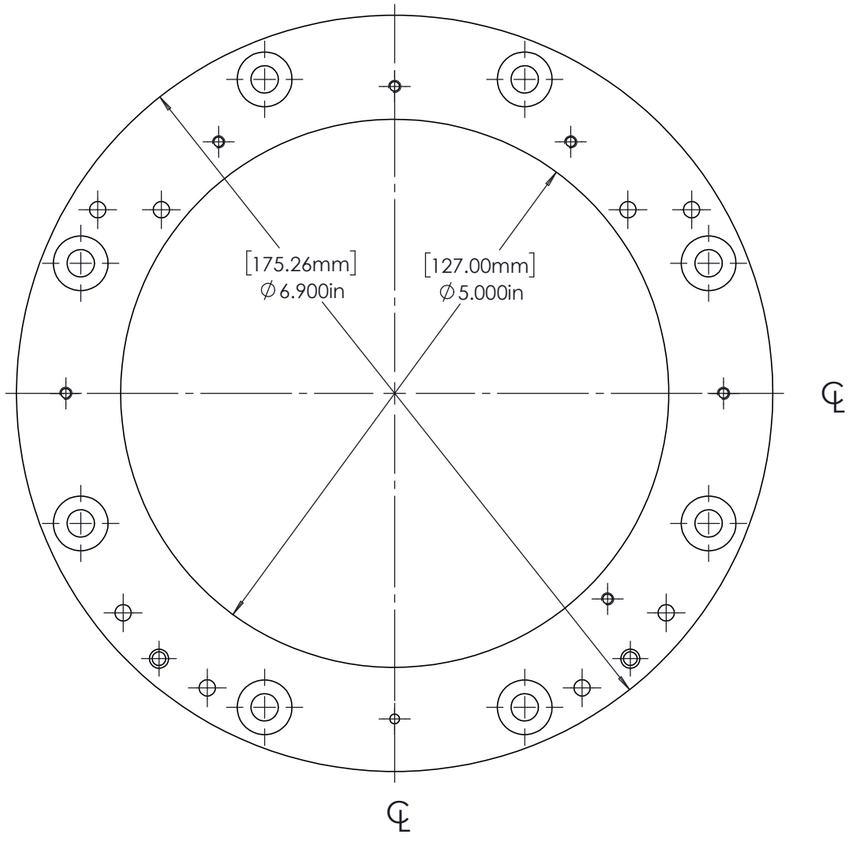
SCALE | CAD FILE: | SHEET 2 OF 10

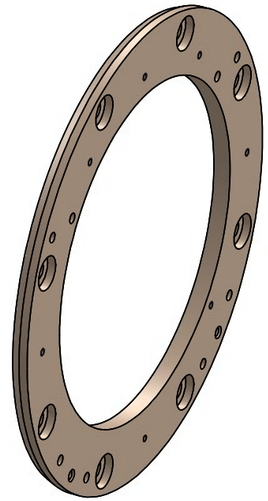
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	XX	XX/XX/202X	
C	XX	XX/XX/202X	



DETAIL A

SCALE 3 : 1





OUTSIDE DIMENSIONS

NOTE 1. SOLID MODEL LOCATION:
\\atlas\ProjectLibrary\902001_4K_ROVCameraDevelopment\EngineeringDesignDocuments\MechanicalDesign\4K_CameraChassis\100221414-15-A_FrontChassisPlate.SLDPRT

NOTE 2: MATERIAL - 6061T6 ALUMINUM ALLOY.

NOTE 3: ANODIZE PART TO 0.0008 AVERAGE COATING THICKNESS TO MIL-A-8625, Type II, Class 2, color: GOLD.

		BILL OF MATERIALS	APPROVALS	DATE
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		
Inspector		1 PLACE DIM ±1/16 · 2 PLACE DIM ±.020 · 3 PLACE DIM ±.005 · ANGLE ±1°	DRAWN MRC	12/15/2020
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET 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.	ENGINEER	MARK R. CHAFFEY
Engineer				(831) 775-1708 chma@mbari.org
NEXT ASSY Description	NEXT ASSY Number		PROJECT No.	902001
			PROJECT Name	4K ROV CAMERA
APPLICATION		DO NOT SCALE DRAWING	WEIGHT	

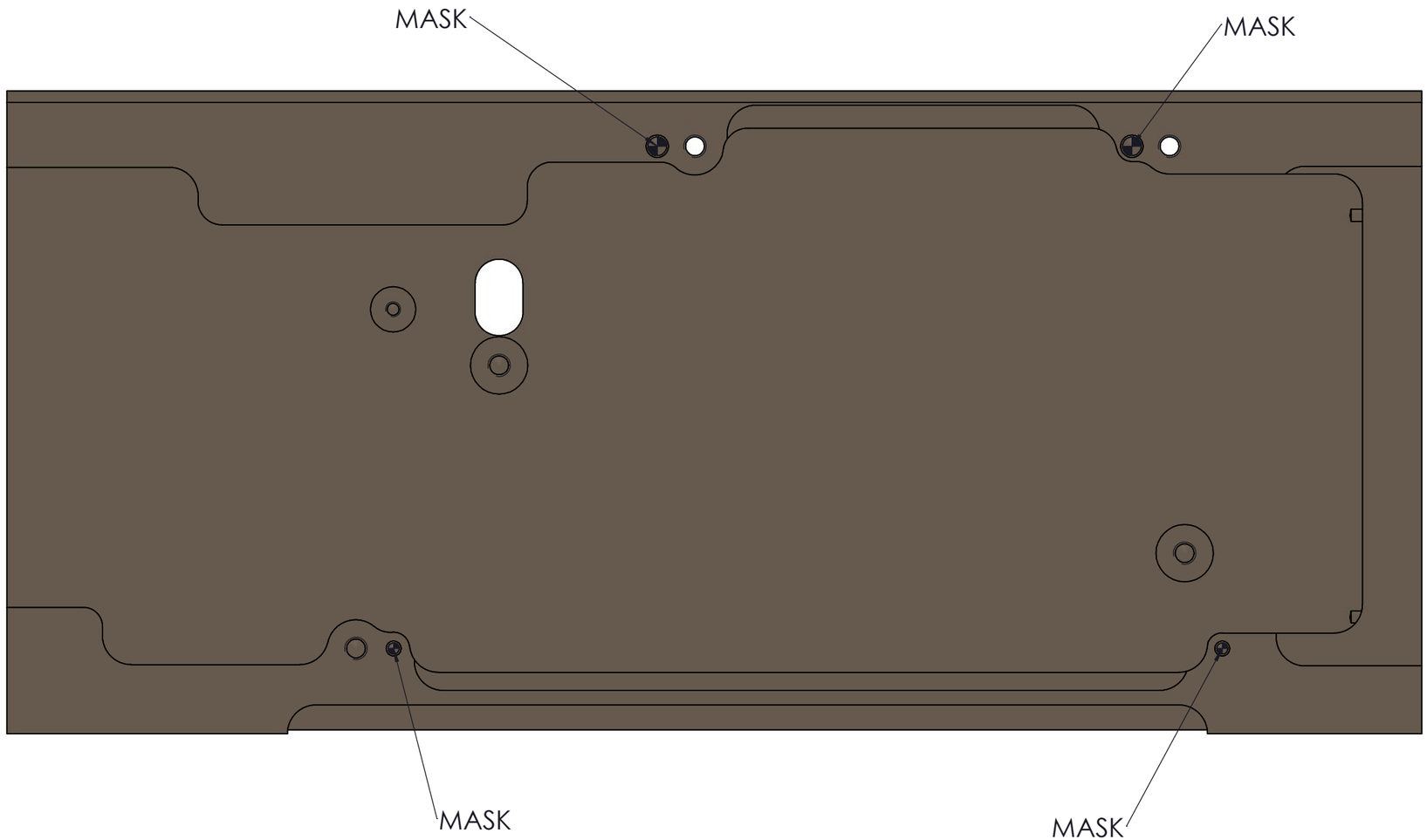
MBARI
7700 Sandholdt Rd.
Moss Landing, CA 95039
PH: (831) 775-1700

MBARI Monterey Bay Aquarium Research Institute

4K CAMERA FRONT CHASSIS PLATE

SIZE	DWG. NO.	REV.
C	100221414-15-A-DWG	A

SCALE | CAD FILE: | SHEET 3 OF 10



ANODIZE MASKING

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

Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	APPROVALS DATE
Inspector		1 PLACE DIM ±1/16 · 2 PLACE DIM ±.020 · 3 PLACE DIM ±.005 · ANGLE ±1°	DRAWN MRC 12/15/2020
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING.	ENGINEER MARK R. CHAFFEY
Engineer		3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .015-.030.	(831) 775-1708 chma@mbari.org
NEXT ASSY Description	NEXT ASSY Number	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.	PROJECT No. 902001
			PROJECT Name 4K ROV CAMERA
APPLICATION		DO NOT SCALE DRAWING	WEIGHT

MBARI
7700 Sandholdt Rd.
Moss Landing, CA 95039
PH: (831) 775-1700

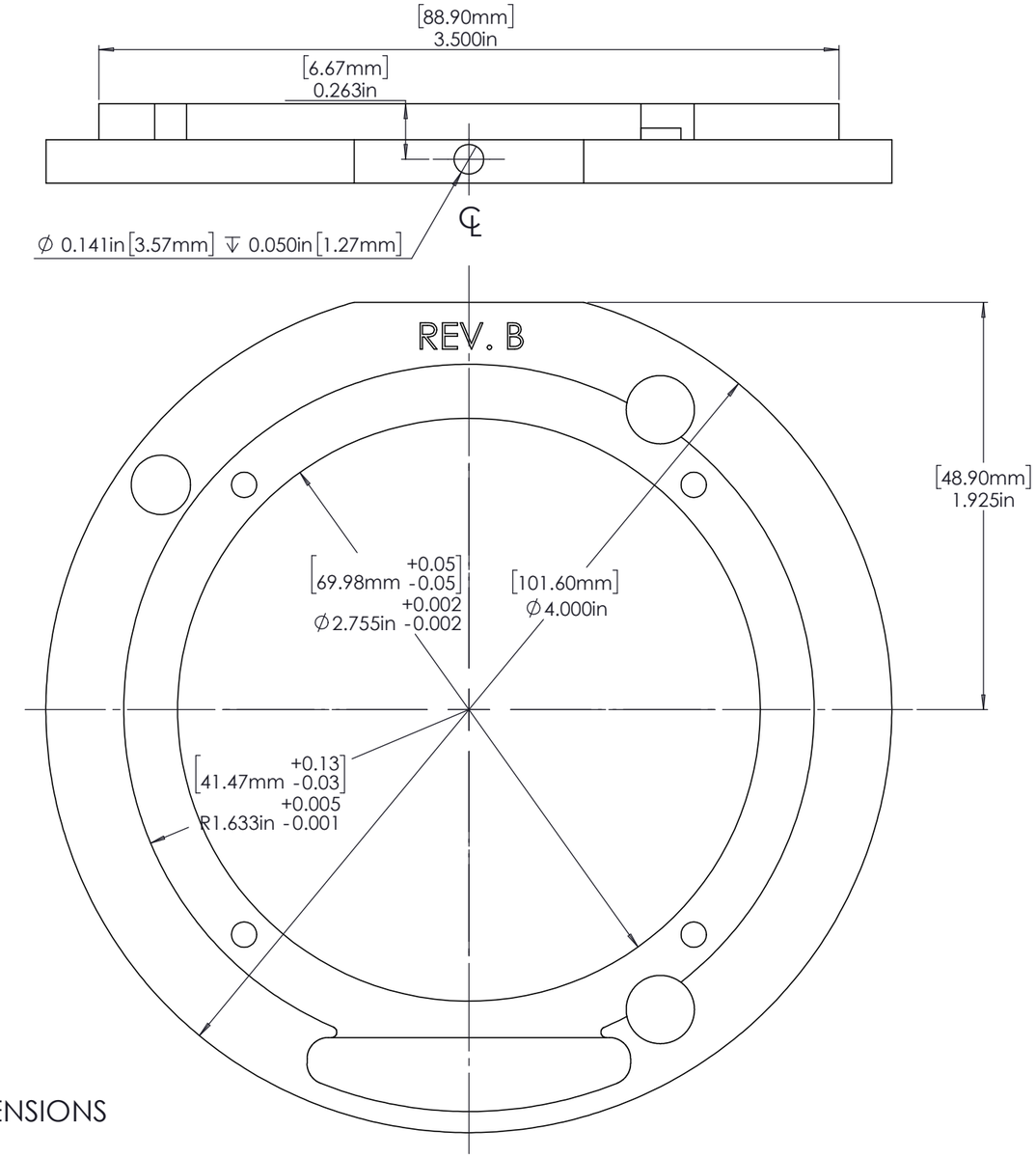
MBARI Monterey Bay Aquarium Research Institute

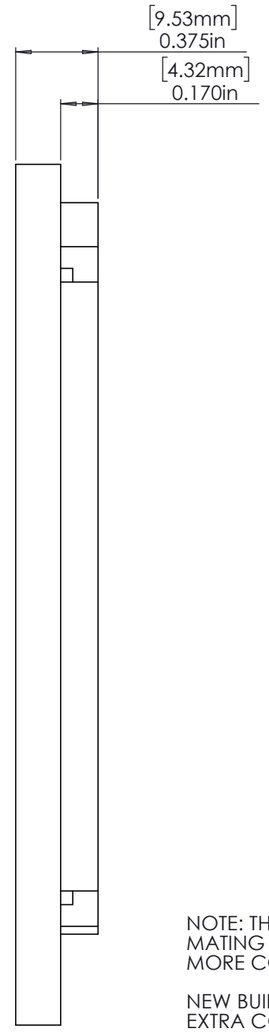
4K CAMERA TOP PLATE

SIZE	DWG. NO.	REV.
C	100221414-18-B-DWG	B

SCALE · CAD FILE: · SHEET 4 OF 10

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	Modification to fit out-of-tolerance mate.	04/27/2021	
C	XX	XX/XX/202X	





EXTERNAL DIMENSIONS

NOTE: THIS 'B' REVISION IS TO FIT SLIGHTLY OUT OF TOLERANCE MATING PART (OPTICAL BLOCK MOUNT) AND ALSO TO ALLOW MORE COMPLIANCE FOR ADJUSTING THE CAMERA LENS TILT.

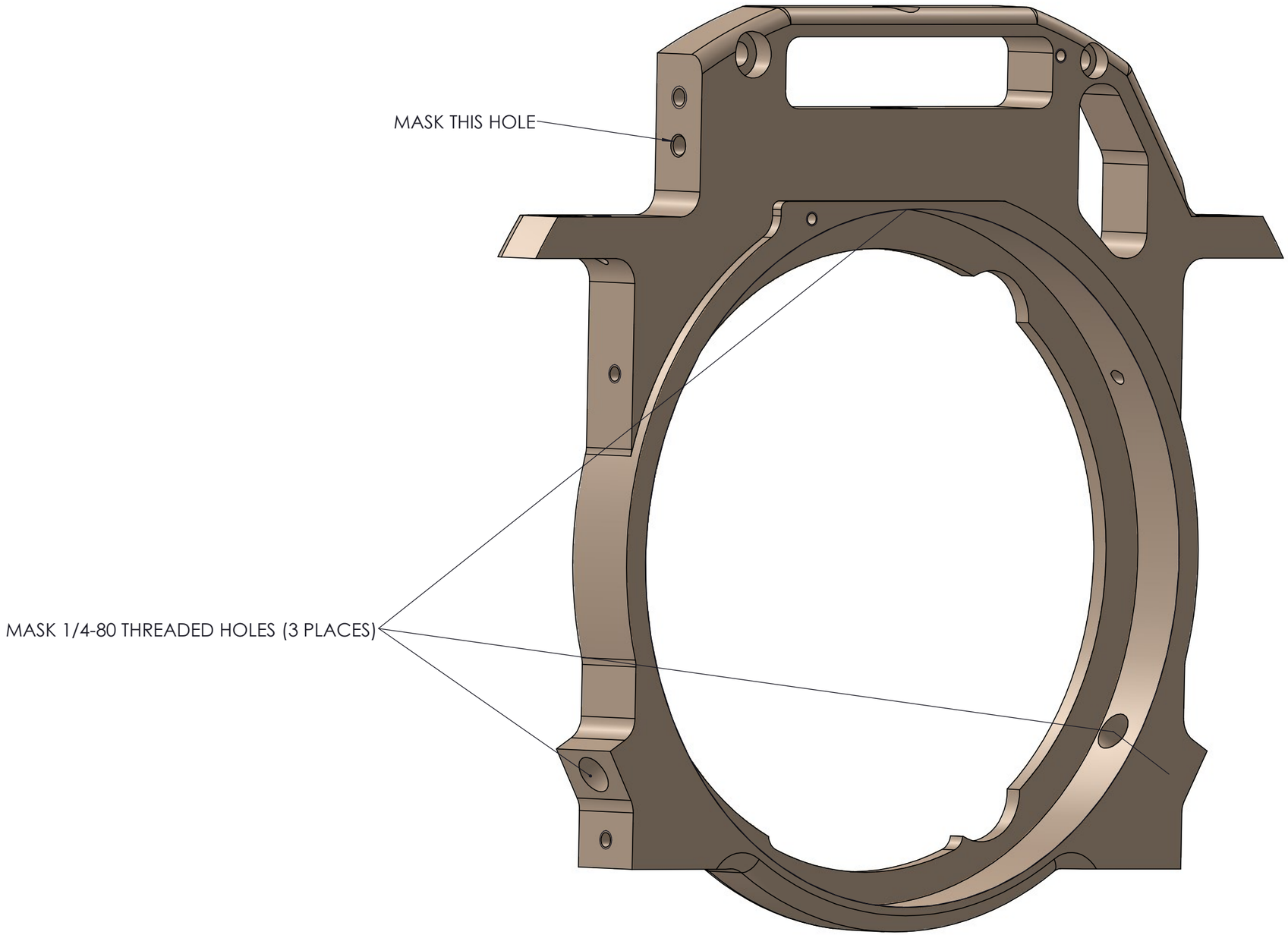
NEW BUILDS MUST USE THE 'C' REVISION PART THAT ALSO ALLOWS EXTRA COMPLIANCE BUT DOES NOT NEED EXTRA MACHINED FLAT FOR ADJUSTING SCREW.

NOTE 1. SOLID MODEL LOCATION:
\\atlas\ProjectLibrary\902001_4K_ROVCameraDevelopment\EngineeringDesignDocuments\MechanicalDesign\4K_CameraChassis\100221414-22-B_OpticalBlockFlange.SLDPRT

NOTE 2. MATERIAL 7075 T6 ALUMINUM ALLOY.

NOTE 3: ANODIZE PART TO 0.0008 AVERAGE COATING THICKNESS TO MIL-A-8625, Type II, Class 2, color: GOLD.

Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	APPROVALS	DATE	MBARI 7700 Sandholdt Rd. Moss Landing, CA 95039 PH: (831) 775-1700
Inspector		1 PLACE DIM ±1/16 | 2 PLACE DIM ±.030 | 3 PLACE DIM ±.005 | ANGLE ±1°	DRAWN MRC	12/17/2020	
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET 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.	ENGINEER	MARK R. CHAFFEY (831) 775-1708 chma@mbari.org	
Engineer					
NEXT ASSY Description	NEXT ASSY Number		PROJECT No.	902001	OPTICAL BLOCK FLANGE
			PROJECT Name	4K ROV CAMERA	SIZE C | DWG. NO. 100221414-22-B-DWG | REV. B
APPLICATION		DO NOT SCALE DRAWING	WEIGHT		SCALE | CAD FILE: | SHEET 5 OF 10



ANODIZE MASKING CALLOUT

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

		BILL OF MATERIALS				APPROVALS	DATE
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:					
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.020	3 PLACE DIM ±.005	ANGLE ±1°	DRAWN MRC	12/18/2020
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET 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.				ENGINEER	MARK R. CHAFFEY
Engineer							(831) 775-1708 chma@mbari.org
NEXT ASSY Description	NEXT ASSY Number					PROJECT No.	902001
						PROJECT Name	4K ROV CAMERA
APPLICATION		DO NOT SCALE DRAWING				WEIGHT	

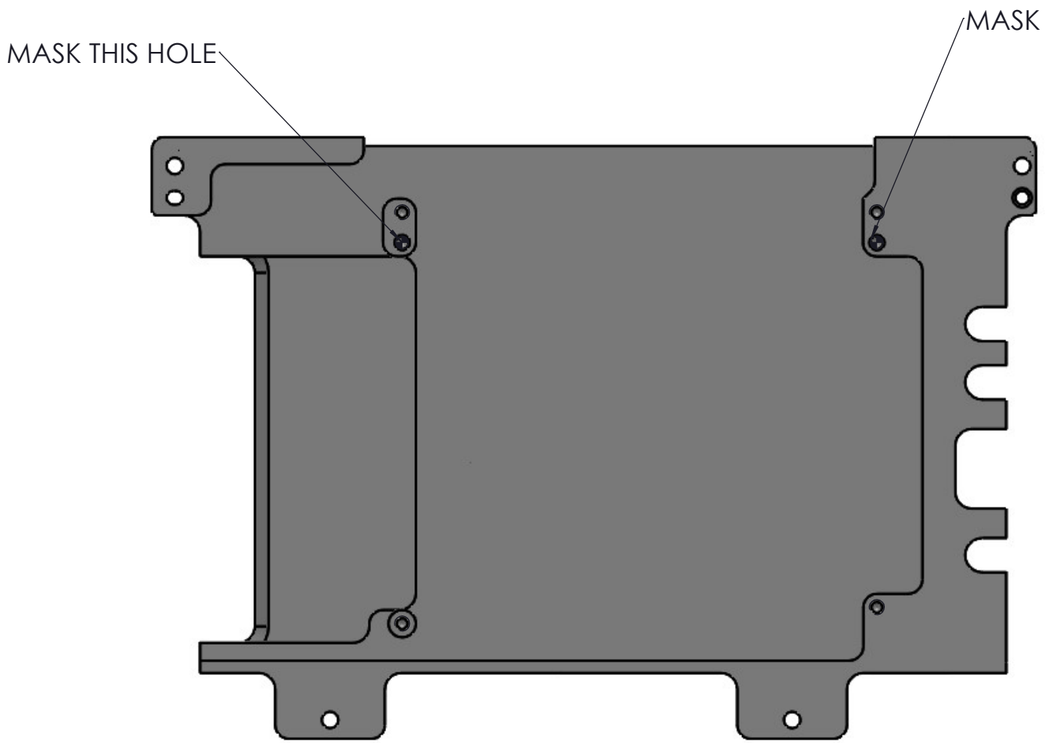
MBARI
7700 Sandholdt Rd.
Moss Landing, CA 95039
PH: (831) 775-1700

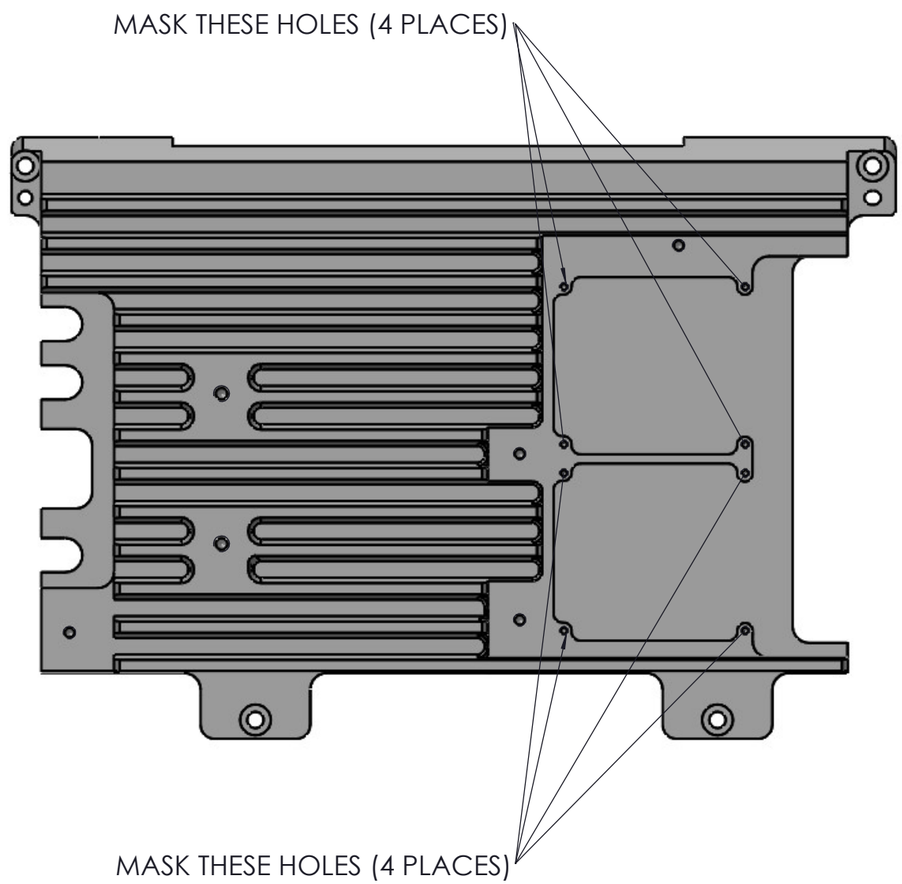
MBARI Monterey Bay Aquarium Research Institute

4K CAMERA OPTICAL BLOCK MOUNT

SIZE	DWG. NO.	REV.
C	100221414-25-A-DWG	A

SCALE | CAD FILE: | SHEET 6 OF 10



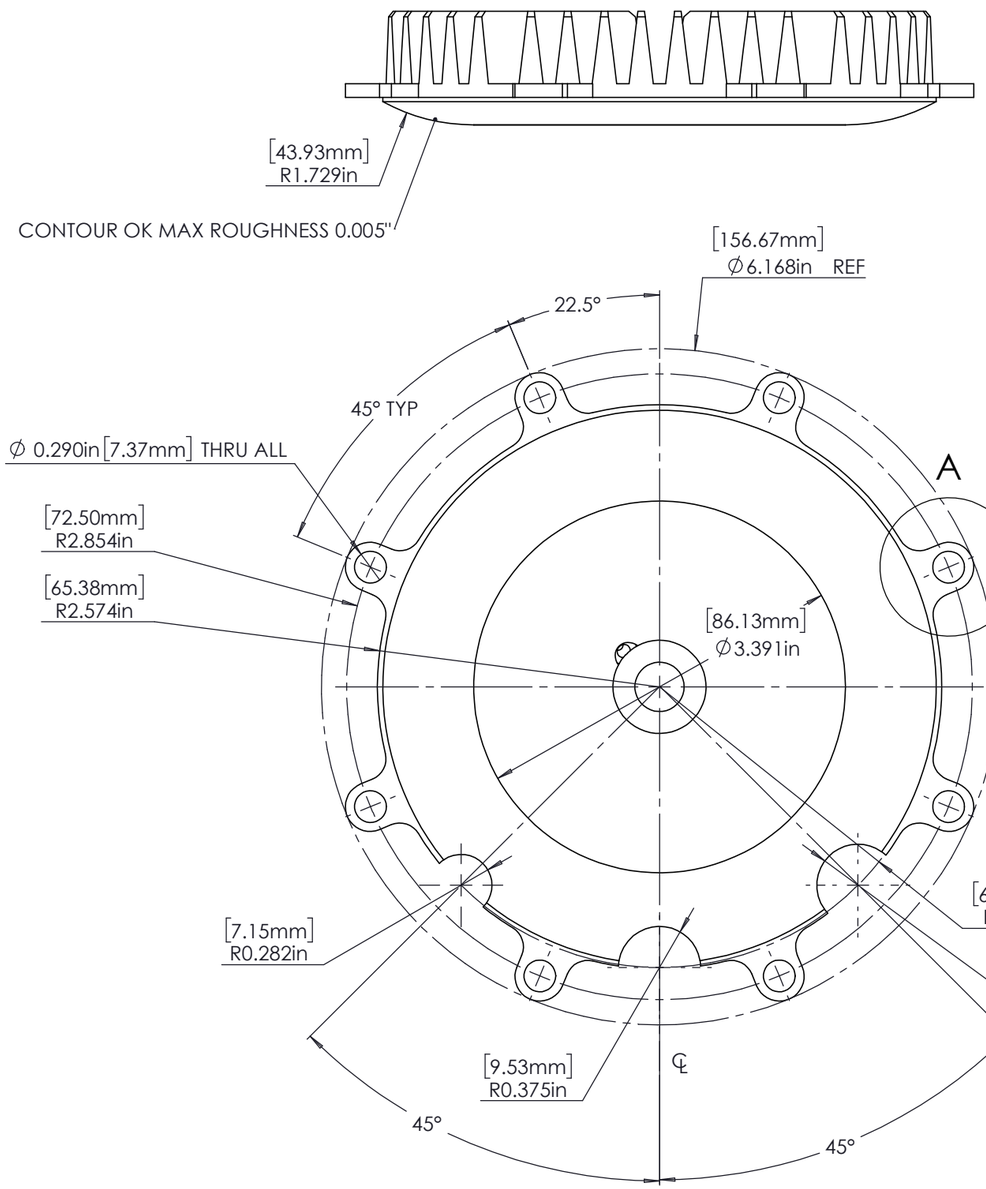


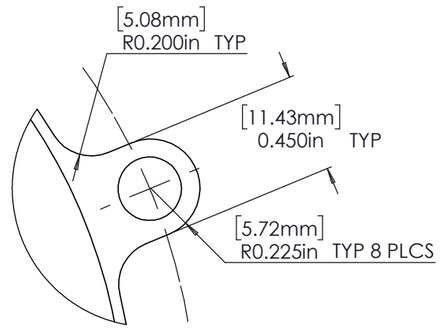
ANODIZING HOLE MASKING CALLOUT

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

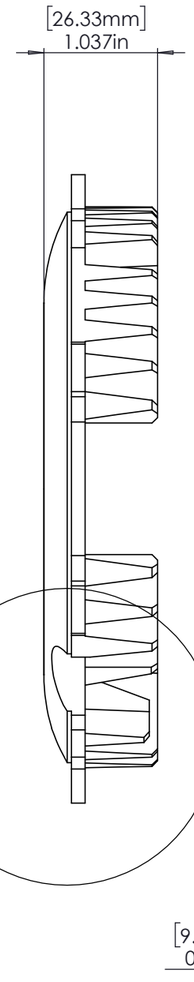
Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	APPROVALS DATE	MBARI 7700 Sandholdt Rd. Moss Landing, CA 95039 PH: (831) 775-1700 Monterey Bay Aquarium Research Institute
Inspector		1 PLACE DIM ±1/16 · 2 PLACE DIM ±.020 · 3 PLACE DIM ±.005 · ANGLE ±1°	DRAWN MRC 12/29/2020	
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET 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.	ENGINEER MARK R. CHAFFEY (831) 775-1708 chma@mbari.org	4K CAMERA RIGHT CHASSIS PANEL
Engineer			PROJECT No. 902001	SIZE C · DWG. NO. 100221414-37-A-DWG · REV. A
NEXT ASSY Description	NEXT ASSY Number		PROJECT Name 4K ROV CAMERA	
APPLICATION		DO NOT SCALE DRAWING	WEIGHT	SCALE · CAD FILE: · SHEET 7 OF 10

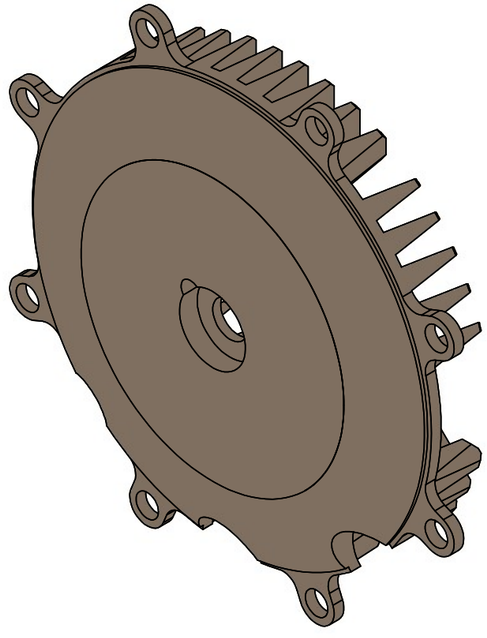
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/12/2020	
B	MODIFIED FOR SPRING TRAVEL	12/01/2020	
C	MODIFIED FOR FASTNER CLEARANCE	12/04/2020	

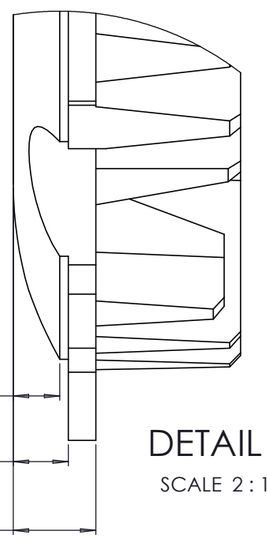




DETAIL A
SCALE 2 : 1







DETAIL B
SCALE 2 : 1

NOTE 1. SOLID MODEL LOCATION:
\\atlas\ProjectLibrary\902001_4K_ROVCameraDevelopment\EngineeringDesignDocuments\MechanicalDesign\4K_CameraChassis\100221414-39-C_BulkheadMount.SLDPRT

NOTE 2. MATERIAL - 6061-T6 ALUMINUM ALLOY.

NOTE 3: ANODIZE PART TO 0.0008 AVERAGE COATING THICKNESS TO MIL-A-8625, Type II, Class 2, color: GOLD.

		BILL OF MATERIALS	APPROVALS	DATE
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		
Inspector		1 PLACE DIM ±1/16 · 2 PLACE DIM ±.020 · 3 PLACE DIM ±.005 · ANGLE ±1°	DRAWN MRC	11/12/2020
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET 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.	ENGINEER MARK R. CHAFFEY	
Engineer			(831) 775-1708 chma@mbari.org	
NEXT ASSY Description	NEXT ASSY Number		PROJECT No. 902001	
			PROJECT Name 4K ROV CAMERA	
APPLICATION		DO NOT SCALE DRAWING	WEIGHT	

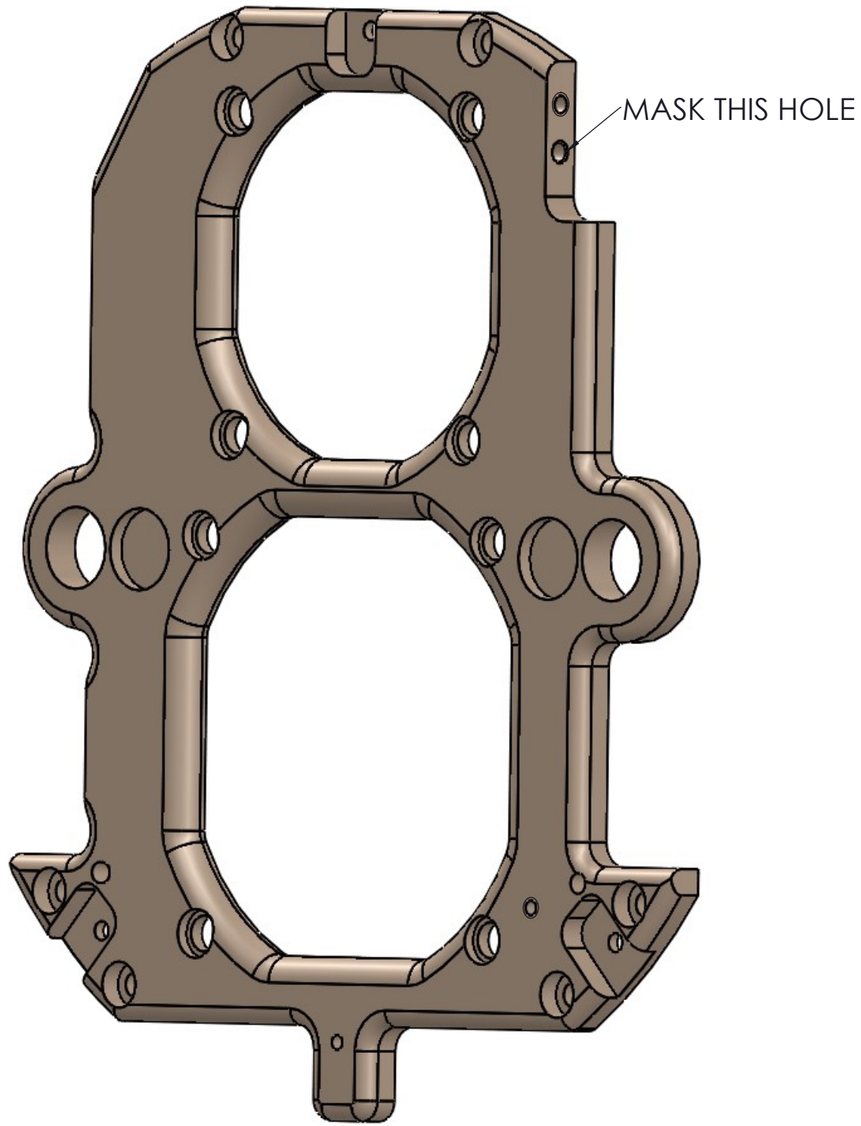
MBARI
7700 Sandholdt Rd.
Moss Landing, CA 95039
PH: (831) 775-1700

MBARI Monterey Bay Aquarium Research Institute

4K Camera Bulkhead Mount

SIZE	DWG. NO.	REV.
C	100221414-39-C-DWG	C

SCALE | CAD FILE: | SHEET 1 OF 3



ANODIZE MASKING CALLOUT

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

Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	APPROVALS DATE
Inspector		1 PLACE DIM ±1/16 · 2 PLACE DIM ±.020 · 3 PLACE DIM ±.005 · ANGLE ±1°	DRAWN MRC 12/21/2020
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET 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.	ENGINEER MARK R. CHAFFEY
Engineer			(831) 775-1708 chma@mbari.org
NEXT ASSY Description	NEXT ASSY Number		PROJECT No. 902001
			PROJECT Name 4K ROV CAMERA
APPLICATION		DO NOT SCALE DRAWING	WEIGHT

MBARI
7700 Sandholdt Rd.
Moss Landing, CA 95039
PH: (831) 775-1700

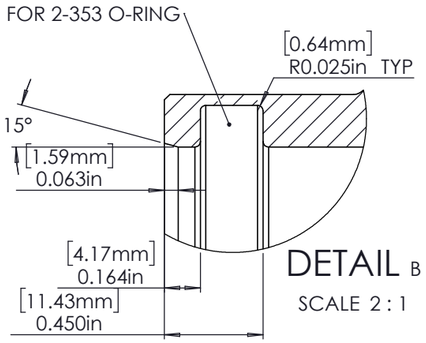
MBARI Monterey Bay Aquarium Research Institute

4K CAMERA REAR CHASSIS PLATE

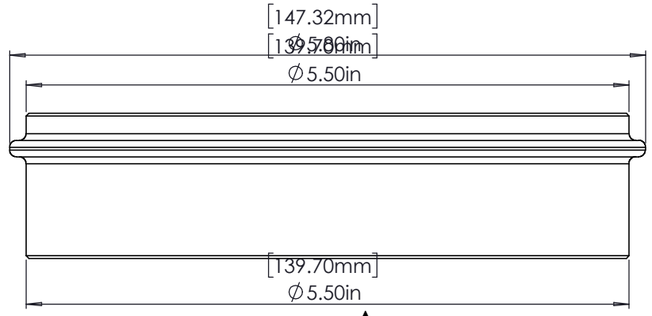
SIZE	DWG. NO.	REV.
C	100221414-45-A-DWG	A

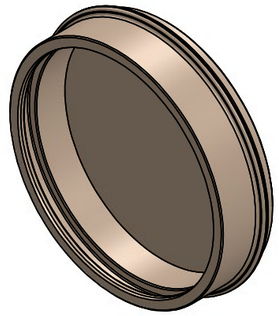
SCALE	CAD FILE:	SHEET 9 OF 10

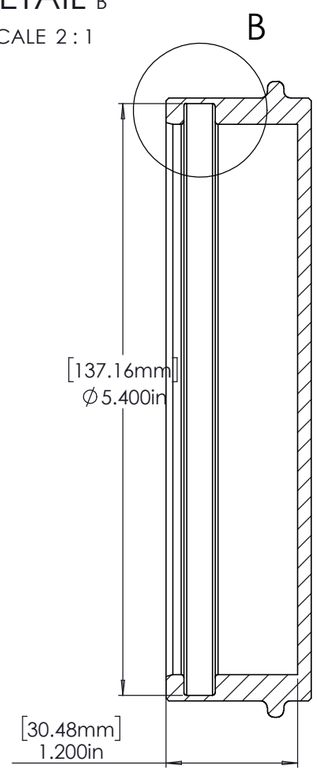
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	XX	XX/XX/202X	
C	XX	XX/XX/202X	



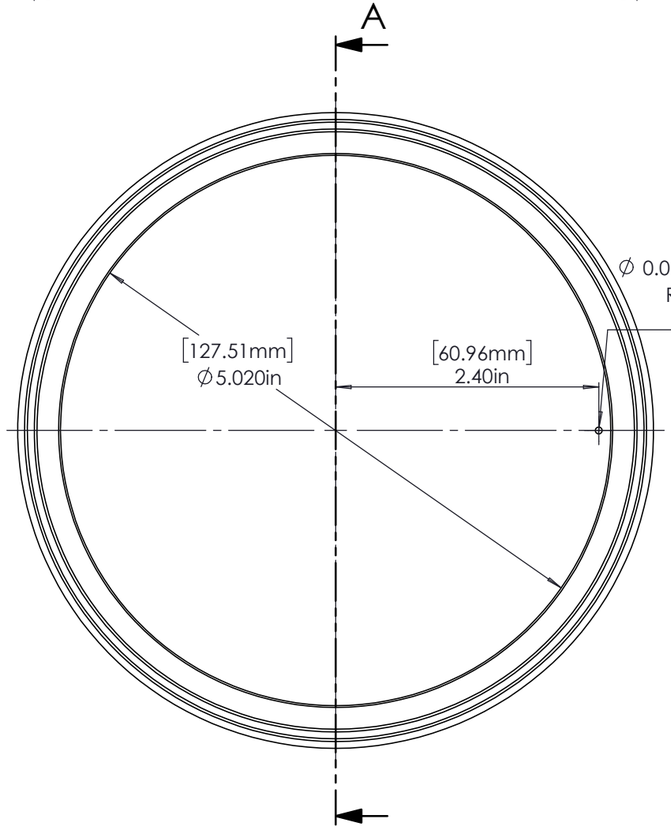
DETAIL B
SCALE 2 : 1

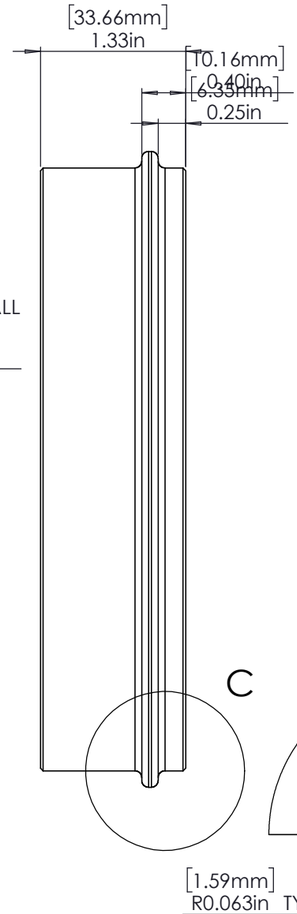


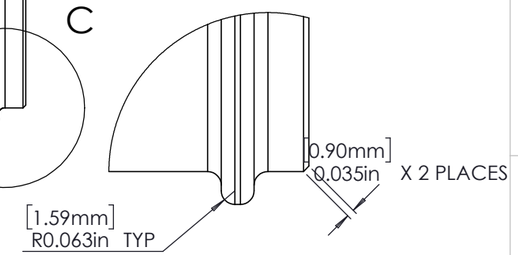




SECTION A-A







DETAIL C
SCALE 2 : 1

NOTE 1. SOLID MODEL LOCATION:
\\atlas\ProjectLibrary\902001_4K_ROVCameraDevelopment\EngineeringDesignDocuments\MechanicalDesign\4K_CameraChassis\100221414-91-A_AdapterLensCap.SLDPRT

NOTE 2. MATERIAL: 6061-T6 ALUMINUM.

NOTE 3: ANODIZE PART TO 0.0008 AVERAGE COATING THICKNESS TO MIL-A-8625, Type II, Class 2, color: GOLD.

		BILL OF MATERIALS	APPROVALS	DATE
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		
Inspector		1 PLACE DIM ±1/16 | 2 PLACE DIM ±.020 | 3 PLACE DIM ±.005 | ANGLE ±1°	DRAWN MRC	04/20/2021
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET 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.	ENGINEER	MARK R. CHAFFEY
Engineer				(831) 775-1708 chma@mbari.org
NEXT ASSY Description	NEXT ASSY Number		PROJECT No.	902001
			PROJECT Name	4K ROV CAMERA
APPLICATION		DO NOT SCALE DRAWING	WEIGHT	

MBARI
7700 Sandholdt Rd.
Moss Landing, CA 95039
PH: (831) 775-1700

MBARI Monterey Bay Aquarium Research Institute

4K CAMERA ADAPTER CELL LENS CAP

SIZE	DWG. NO.	REV.
C	100221414-91-A-DWG	A
SCALE	CAD FILE:	SHEET 10 OF 10