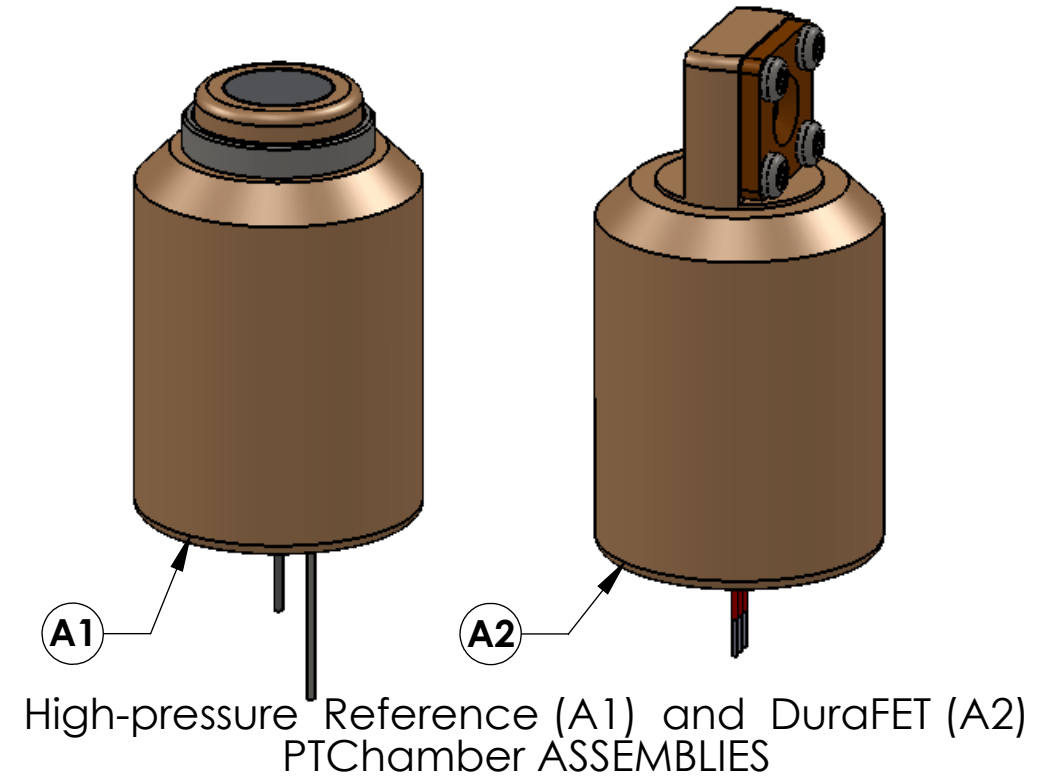
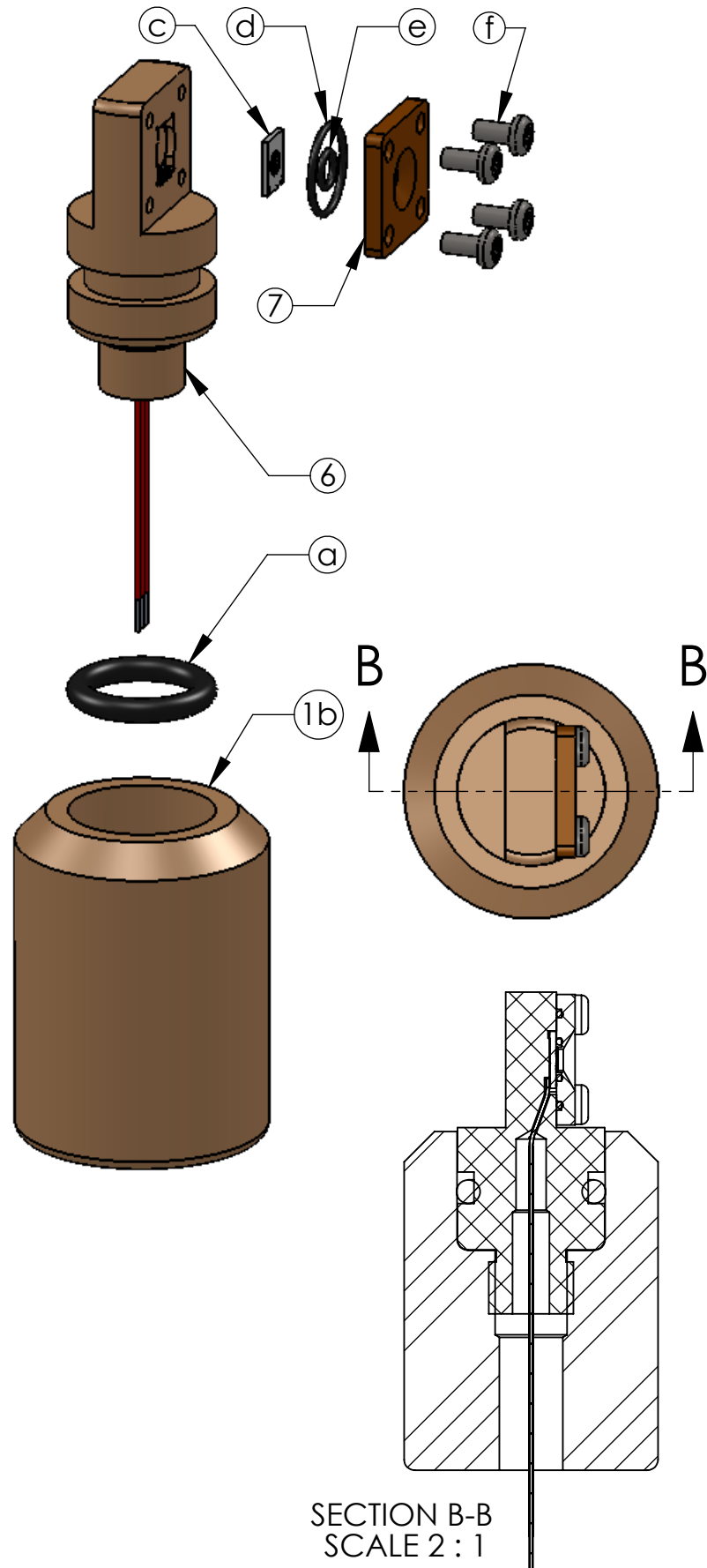
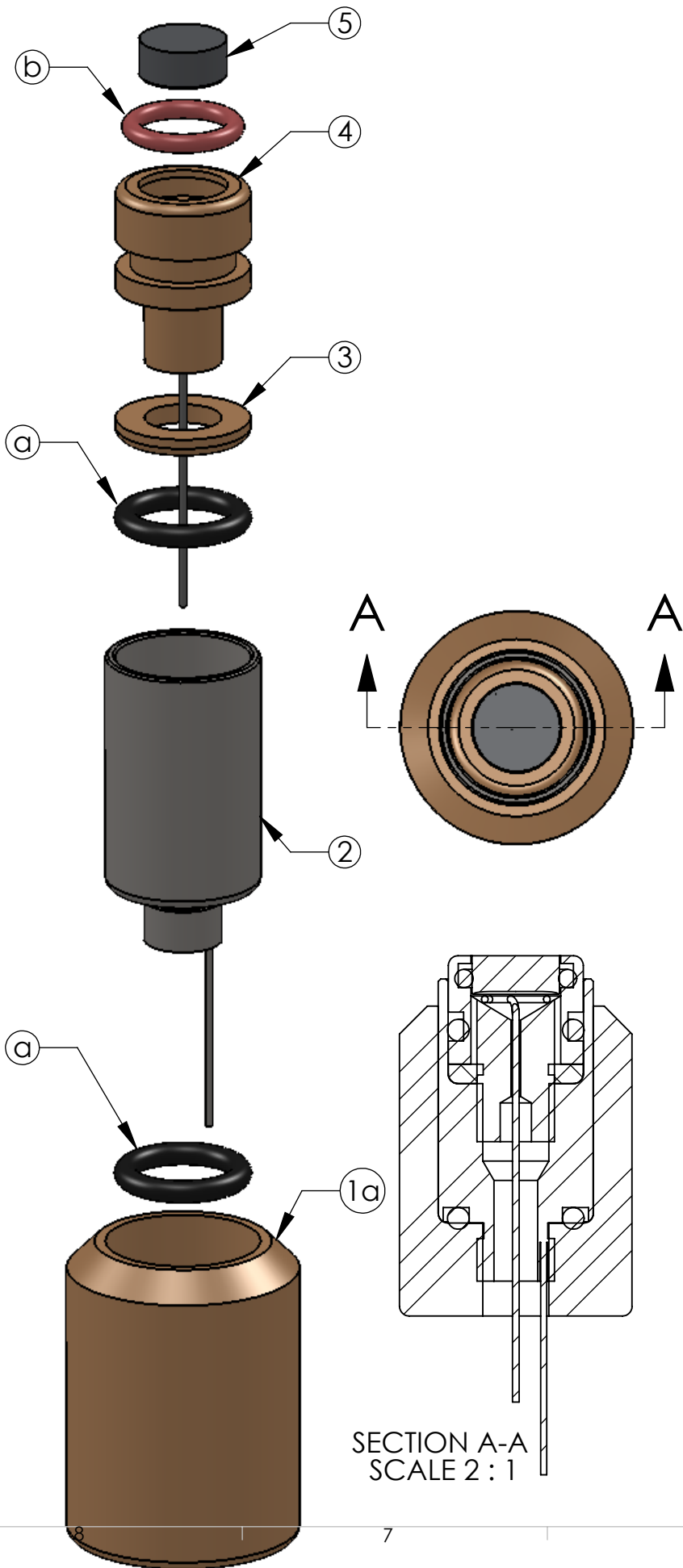


THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.



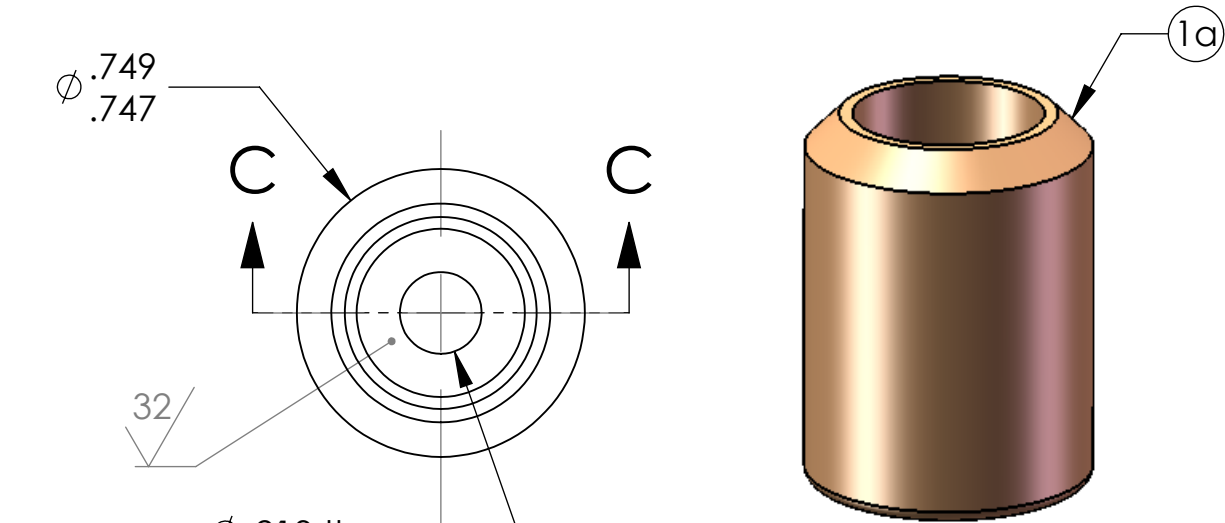
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
INITIAL RELEASE			
A	Modified DFmount and CounterElectrode	9/15/11	hwj
B	Increased cover thickness	10/16/11	hwj
C	Updated and added cover countersink	4/4/16	hwj

f	4		#0-80 x 3/16" panhead screws	Type 316 Stainless Steel
e	1		.087 x .020 O-ring	Viton, D75 (Apple Rubber)
d	1		.248 x .020 O-ring	Viton, D75 (Apple Rubber)
c	1		DuraFET Chip	Honeywell
b	1		7 X 1.5 mm O-ring	Silicone, D50
a	2		-011 O-ring	Viton, D75
7	1		DuraFET Cover	PEEK (natural)
6	1		DuraFET Mount	PEEK Rod (natural)
5	1		Silver Chloride Pellet	vanLondon 7.2 x 3.6 mm silver chlodide
4	1		Ref Pellet Housing	PEEK Rod (natural)
3	1		Isolation Washer	PEEK Rod (natural)
2	1		Counter Electrode	Type 316 Stainless Steel Rod
1b	1		Common Support (Config b)	PEEK Rod (natural)
1a	1		Common Support (Config a)	PEEK Rod (natural)
A2	1		DuraFET for PTChamber	
A1	1		Ref Cell for PTChamber	
Item No.	Qty	Part No.	Description	Material Specification

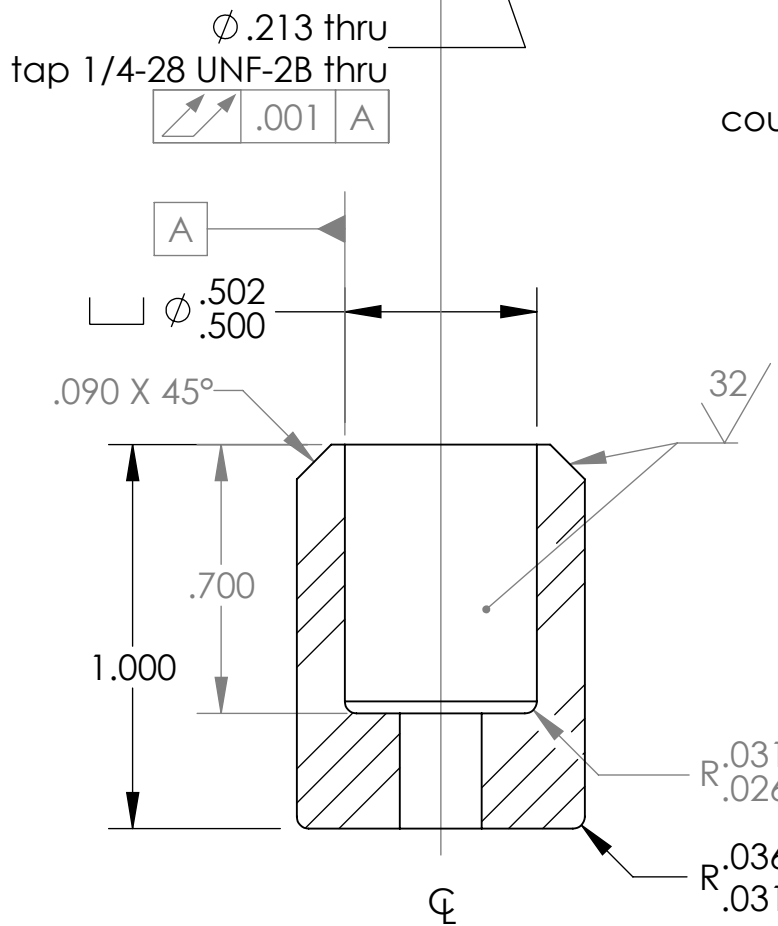
Bill of Materials			
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	APPROVALS DATE
Inspector		1 PLACE DIM ±.1/16 2 PLACE DIM ±.02 3 PLACE DIM ±.005 ANGLES ±1°	DRAWN HANS JANNASCH 5/30/11
Shop Foreman		1. DIMENSIONS ARE IN INCHES	ENGINEER
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.	CHECKED
NEXT ASSY Description	NEXT ASSY Number	3. REMOVE BURRS AND SHARP EDGES .015 MAX.	PROJECT NO. 900918
		4. MACHINED FILLET RADII .0150-.030.	PROJECT Novel Sensors
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005	WEIGHT
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.	DO NOT SCALE DRAWING
Application			
Monterey Bay Aquarium Research Institute		SIZE B	REV. C
MBARI		DWG. NO. 242jahaCommonDF+Ref	
7700 Sandholdt RD.		SCALE 1:3	
Moss Landing, CA 95039		CAD FILE: Tornado/chem/SWfiles	
PH: (831) 775-1700		SHEET 1 OF 6	

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.

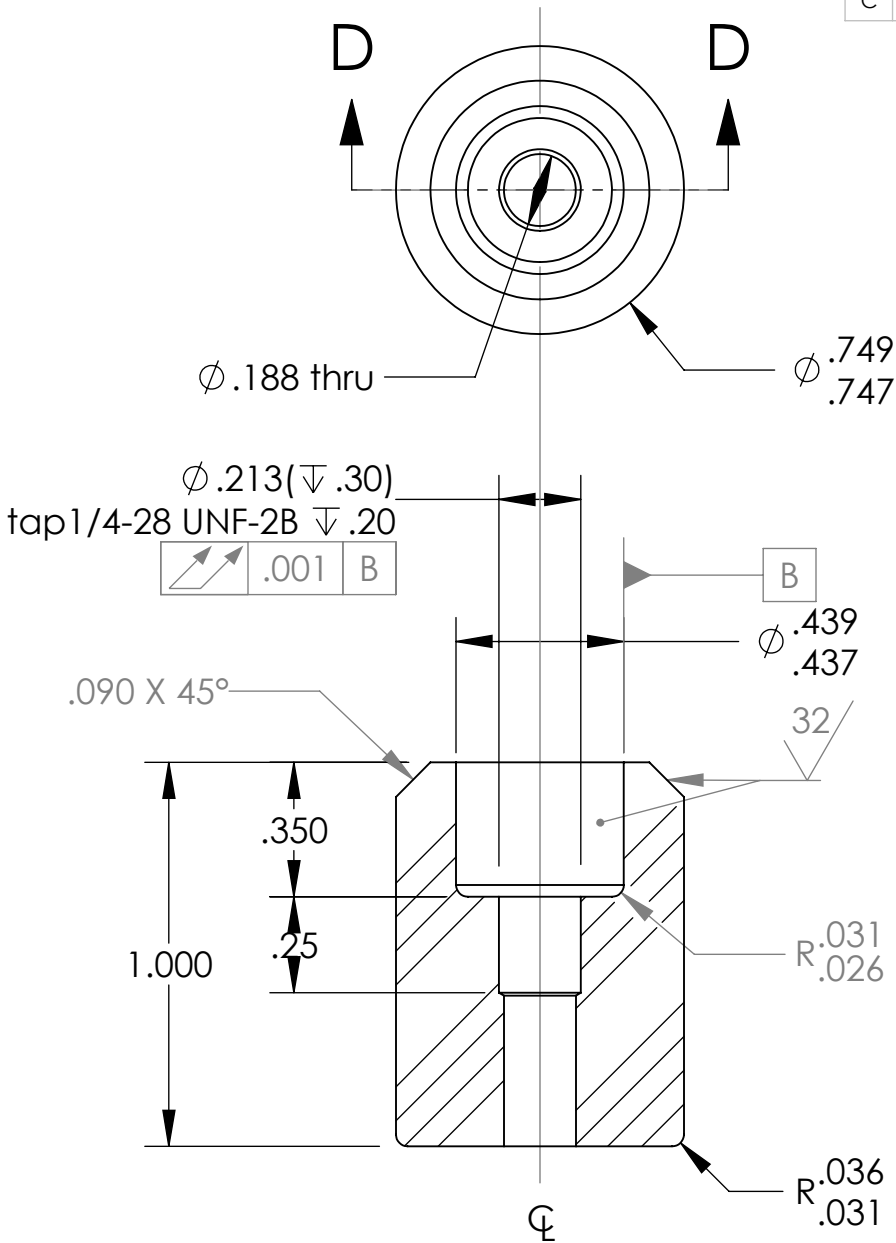
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		
A	Modified DFmount and CounterElectrode	9/15/11	hwj
B	Increased cover thickness	10/16/11	hwj
C	Updated and added cover countersink	4/4/16	hwj



For use **with**
counter electrode (Part 2)



SECTION C-C



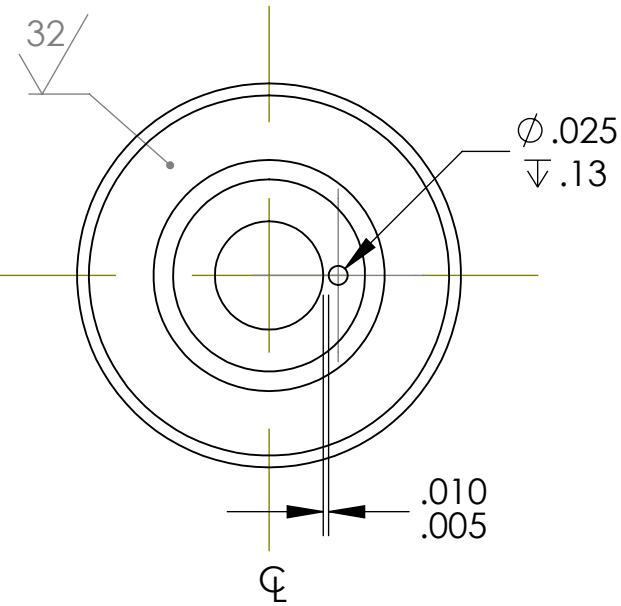
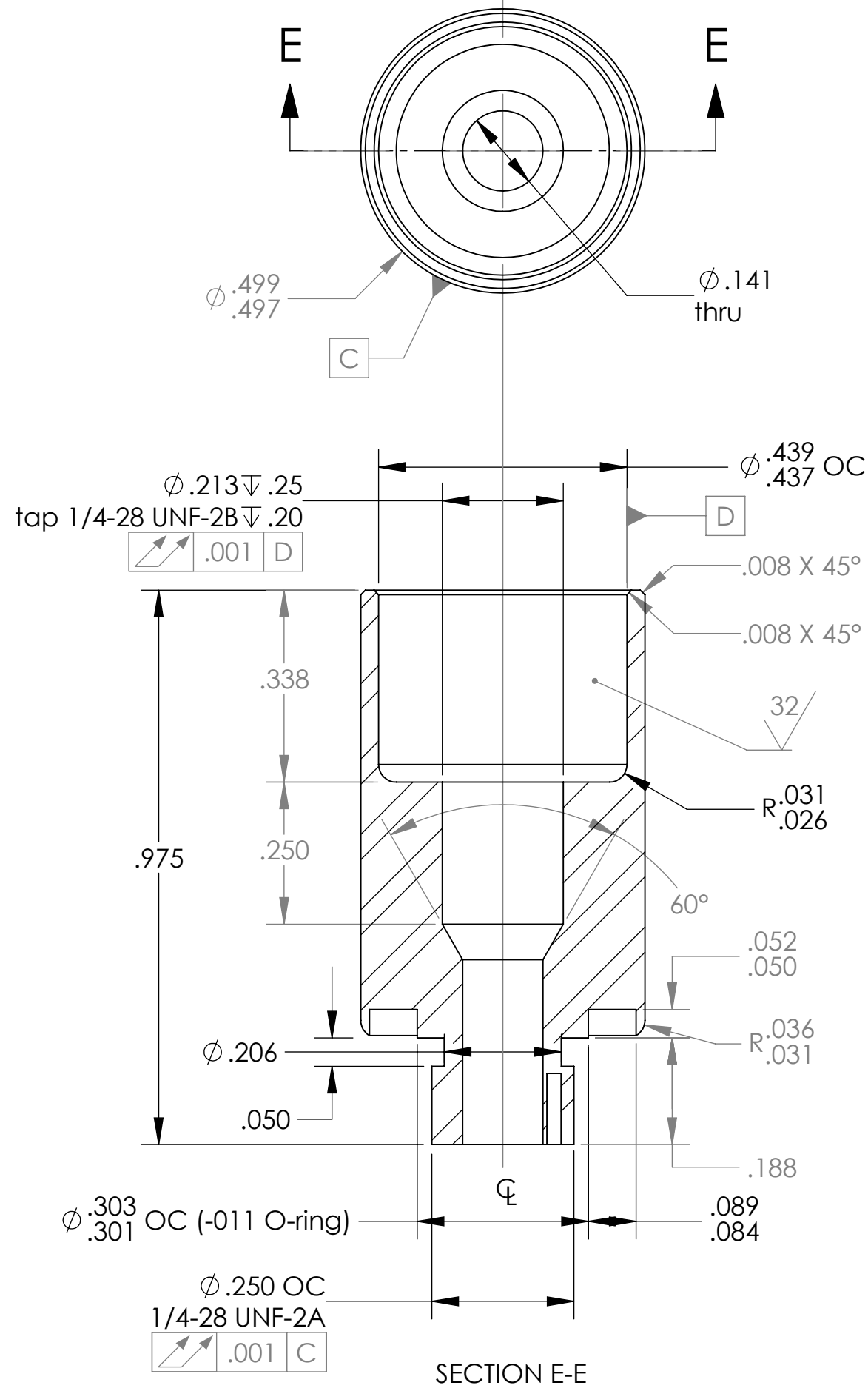
For use **without**
counter electrode (Part 2)

SECTION D-D

1b	1		Common Support (Config b)	PEEK Rod (natural)		
1a	1		Common Support (Config a)	PEEK Rod (natural)		
Item No.	Qty	Part No.	Description	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°	DRAWN Hans Jannasch 5/30/11
Shop Foreman		1. DIMENSIONS ARE IN INCHES				ENGINEER
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.				CHECKED
NEXT ASSY Description	NEXT ASSY Number	3. REMOVE BURRS AND SHARP EDGES .015 MAX.				PROJECT NO. 900918
		4. MACHINED FILLET RADII .0150-.030.				PROJECT Novel Sensors
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005				WEIGHT
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				
Application		DO NOT SCALE DRAWING		Monterey Bay Aquarium Research Institute		
				MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700		
				Common DuraFET & Reference		
				SIZE B	DWG. NO. 242jahaCommonDF+Ref	REV. C
				SCALE 1:3	CAD FILE: Tornado/chem/SWfiles	SHEET 2 OF 6

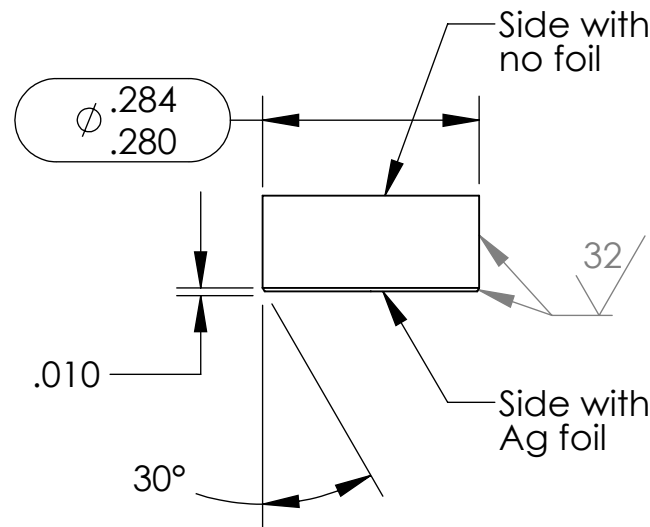
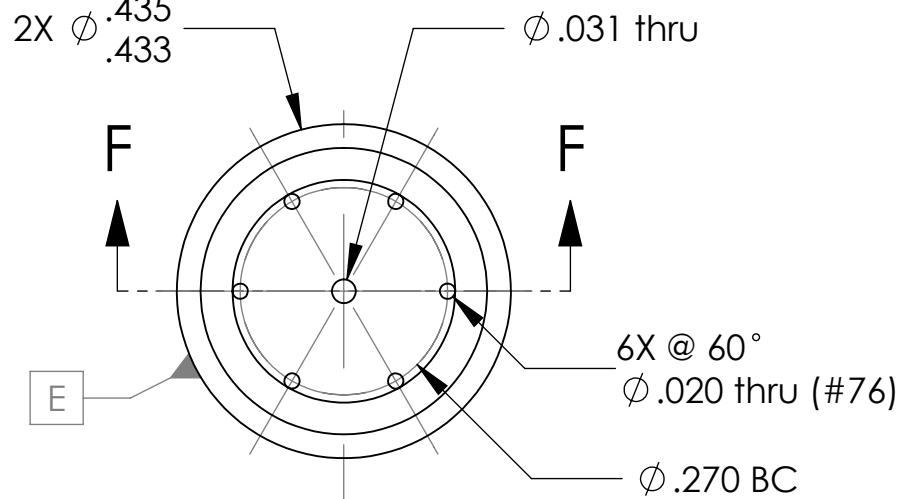
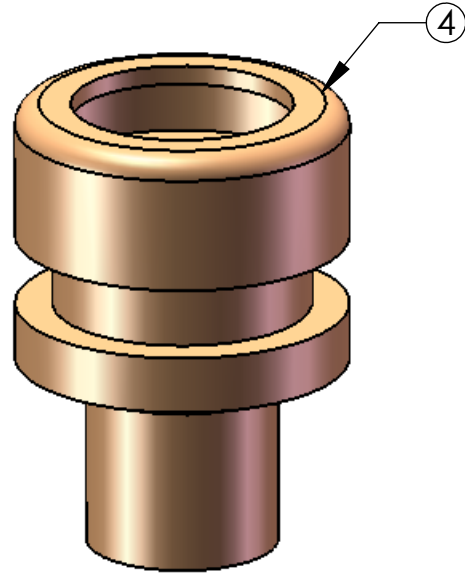
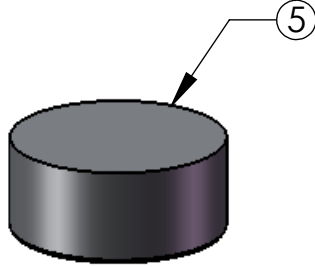
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		
A	Modified DFmount and CounterElectrode	9/15/11	hwj
B	Increased cover thickness	10/16/11	hwj
C	Updated and added cover countersink	4/4/16	hwj



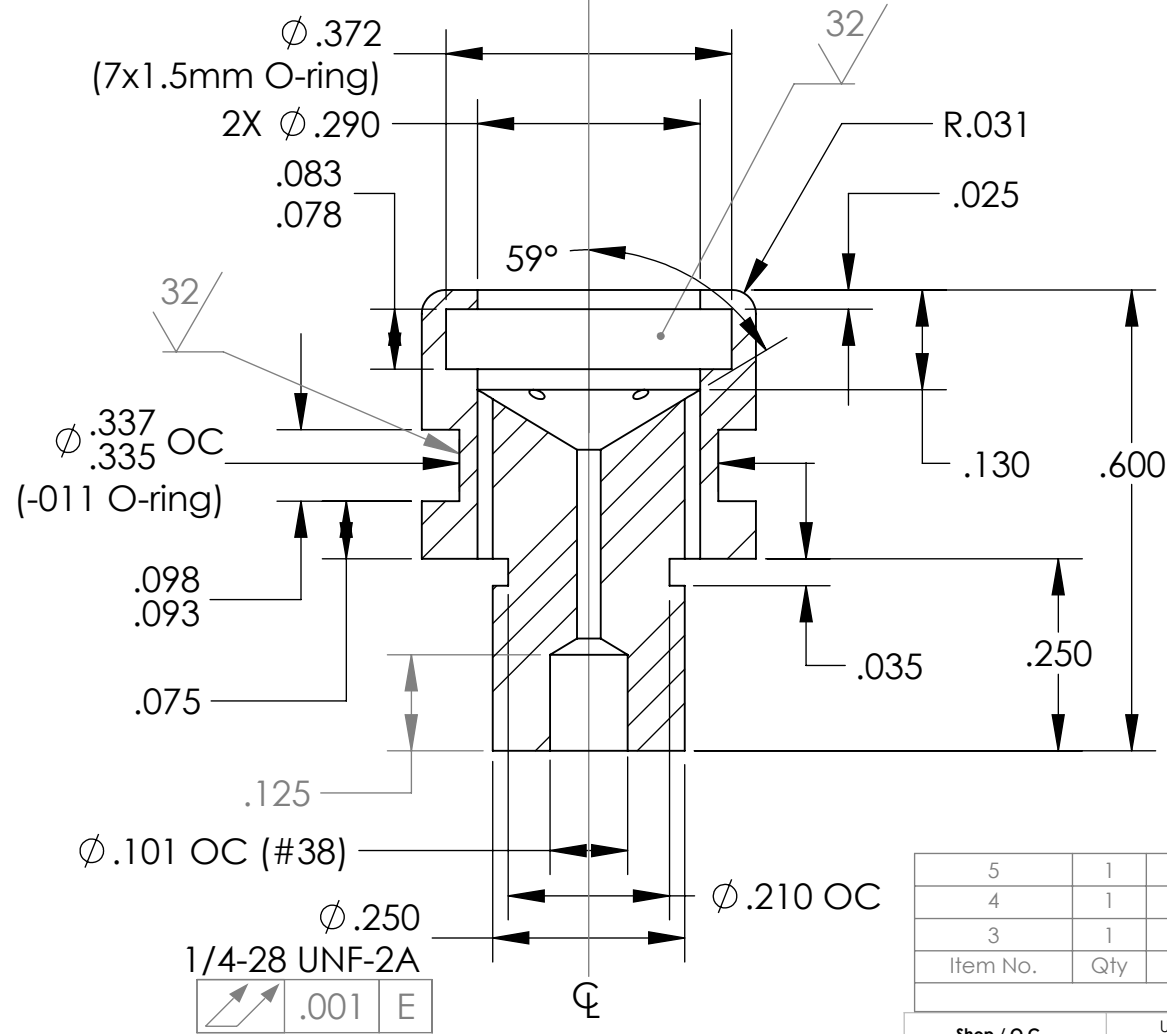
2		1		Counter Electrode		Type 316 Stainless Steel Rod	
Item No.		Qty		Part No.		Description	
						Material Specification	
Bill of Materials							
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS DATE	
Inspector		1 PLACE DIM ±.1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN Hans Jannasch 5/30/11	
Shop Foreman		1. DIMENSIONS ARE IN INCHES				ENGINEER	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.				CHECKED	
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.				PROJECT NO. 900918	
		4. MACHINED FILLET RADII .0150-.030.				PROJECT Novel Sensors	
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.					
Application		DO NOT SCALE DRAWING				WEIGHT	
						Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700	
Common DuraFET & Reference						SIZE B DWG. NO. 242jahaCommonDF+Ref REV. C	
SCALE 1:3 CAD FILE: Tornado/chem/SWfiles SHEET 3 OF 6							

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.



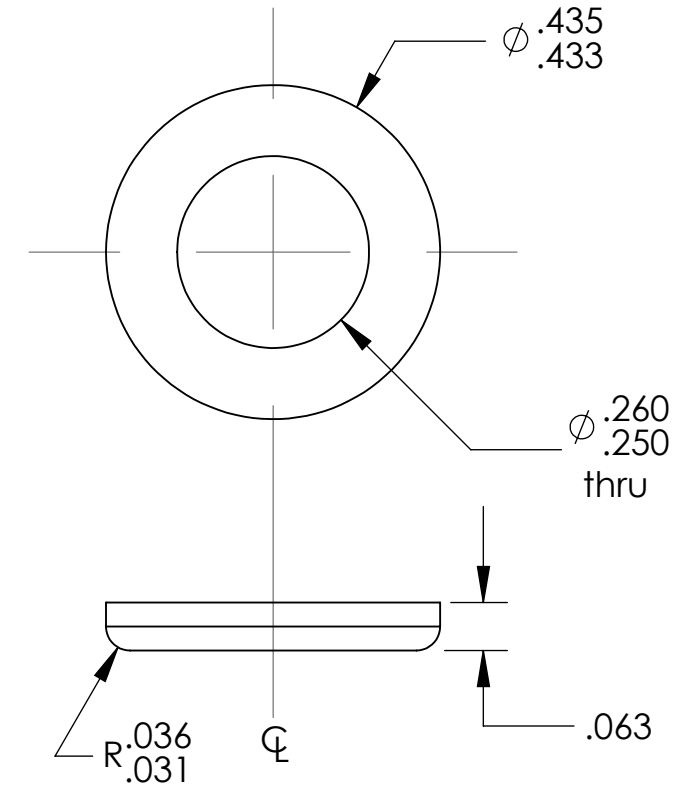
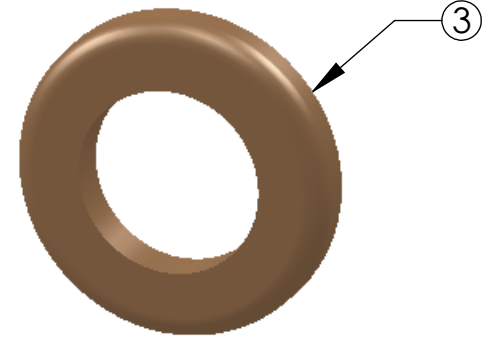
Note: Machine chamfer while turning pellet in clean soft collet with clean sharp tool. Use NO oil or other fluids. Handle pellet with clean latex gloves.

Note: Side with no foil is not machined (machined flat after epoxying into part #4)



SECTION F-F
SCALE 4 : 1

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
INITIAL RELEASE			
A	Modified DFmount and CounterElectrode	9/15/11	hwj
B	Increased cover thickness	10/16/11	hwj
C	Updated and added cover countersink	4/4/16	hwj



5	1		Silver Chloride Pellet	vanLondon 7.2 x 3.6 mm silver chloride
4	1		Ref Pellet Housing	PEEK Rod (natural)
3	1		Isolation Washer	PEEK Rod (natural)
Item No.	Qty	Part No.	Description	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°	DRAWN Hans Jannasch 5/30/11 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 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
Engineer			PROJECT NO. 900918
NEXT ASSY Description	NEXT ASSY Number		PROJECT Novel Sensors
Application		DO NOT SCALE DRAWING	WEIGHT
			SIZE B DWG. NO. 242jahaCommonDF+Ref REV. C
			SCALE 1:3 CAD FILE: Tornado/chem/SWfiles SHEET 4 OF 6

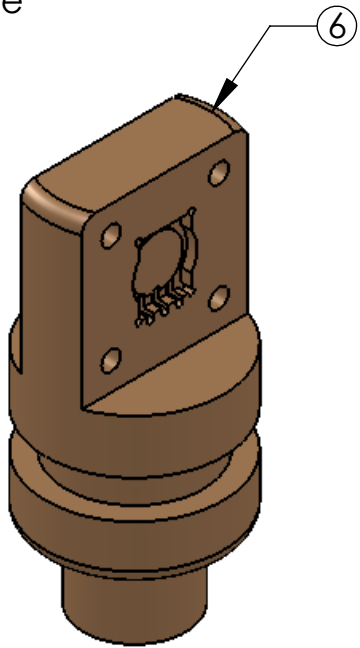
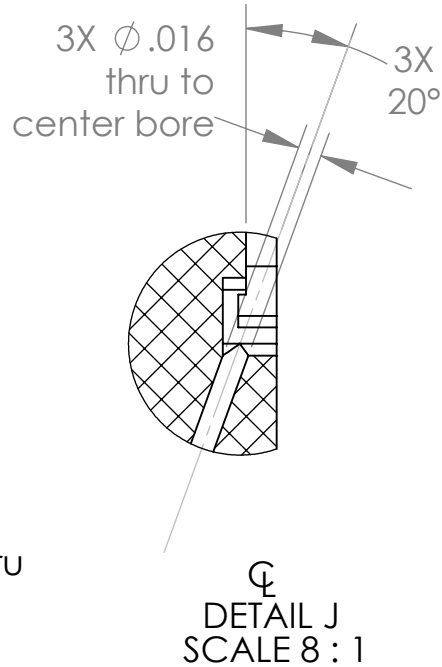
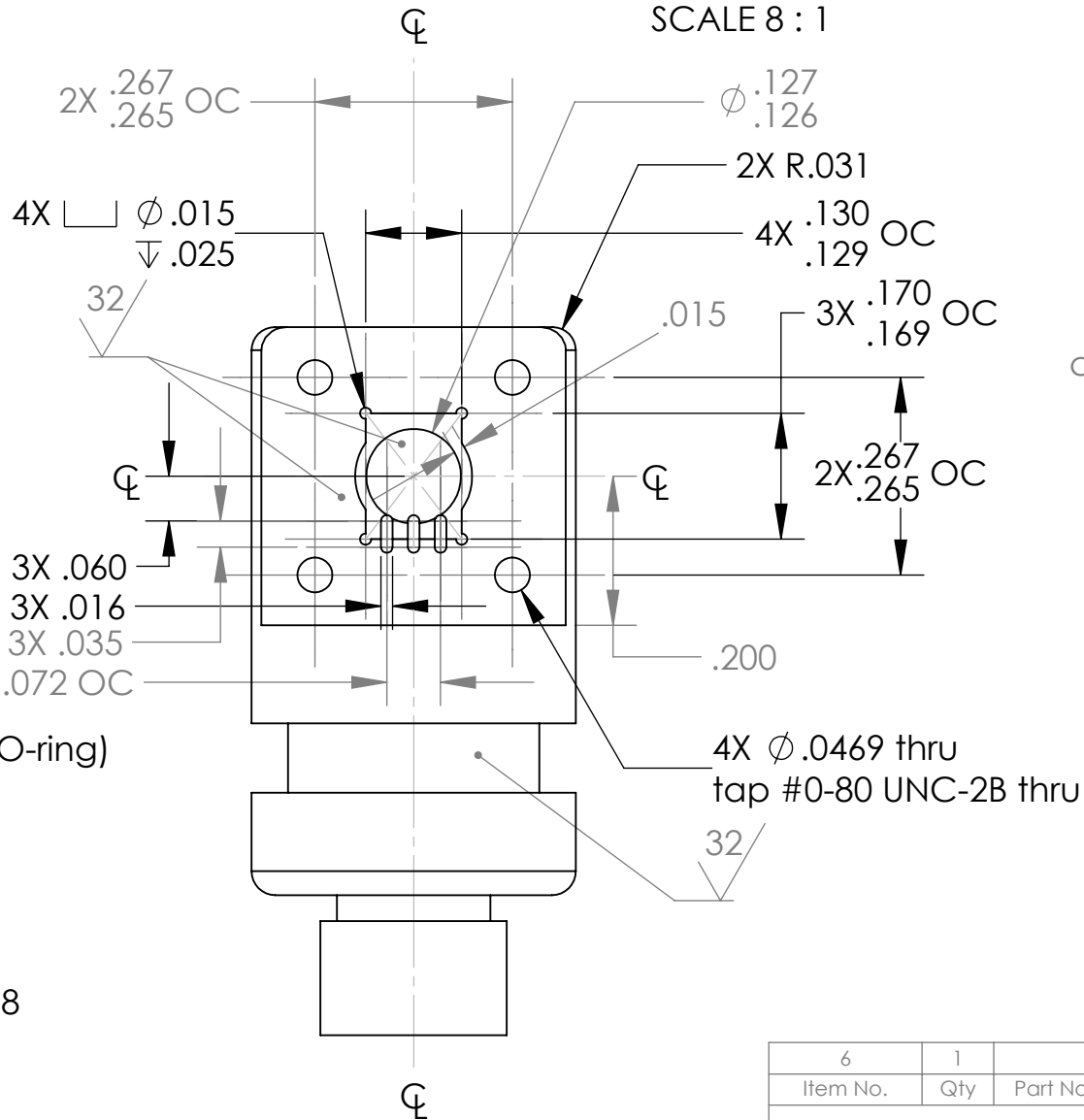
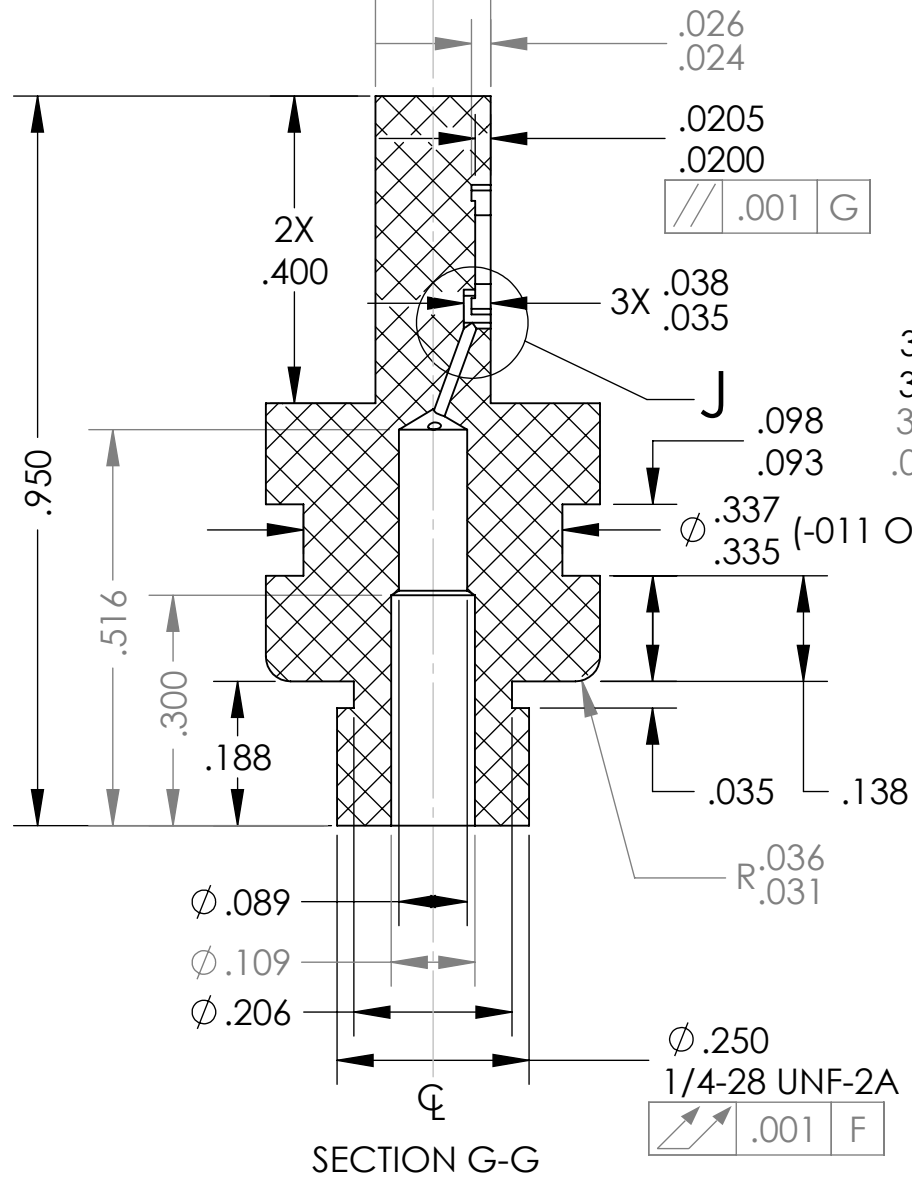
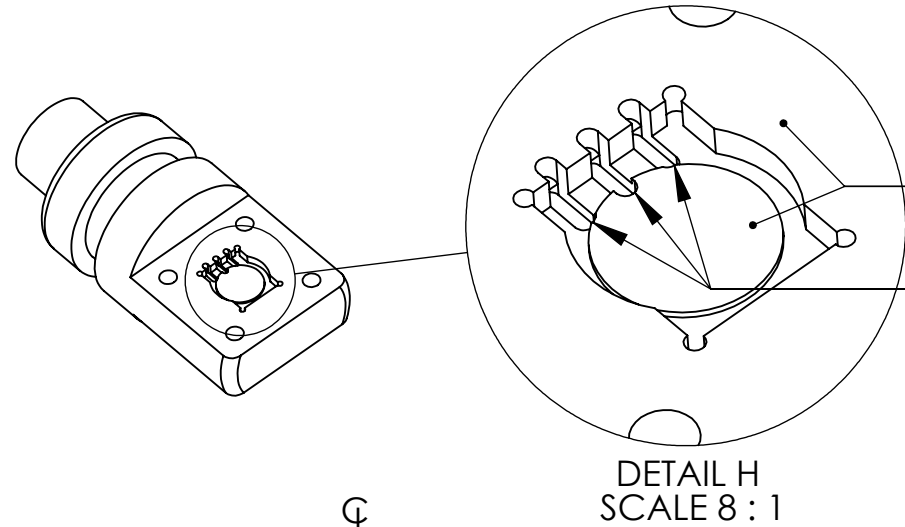
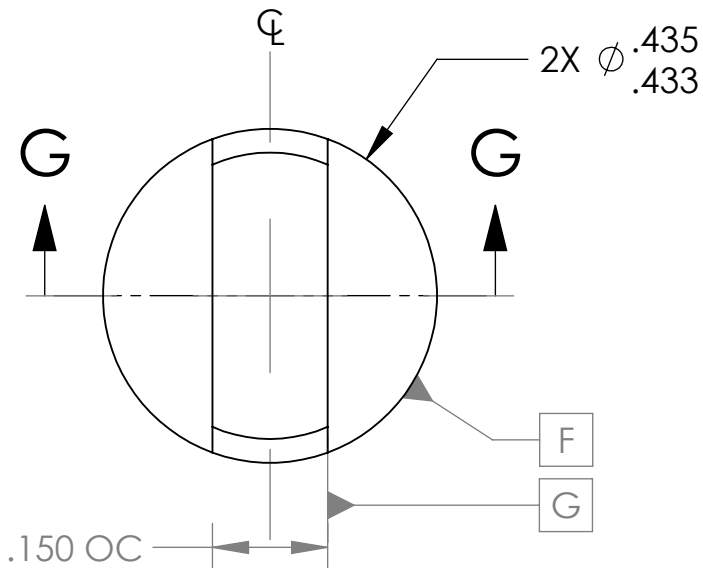
Monterey Bay Aquarium Research Institute
MBARI
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (831) 775-1700



Common DuraFET & Reference

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		
A	Modified DFmount and CounterElectrode	9/15/11	hwj
B	Increased cover thickness	10/16/11	hwj
C	Updated and added cover countersink	4/4/16	hwj



6		1		DuraFET Mount		PEEK Rod (natural)	
Item No.		Qty	Part No.	Description		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°	DRAWN Hans Jannasch 5/30/11	
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	Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700	
Engineer					CHECKED		
NEXT ASSY Description	NEXT ASSY Number				PROJECT NO.	900918	
					PROJECT	Novel Sensors	
Application		DO NOT SCALE DRAWING			WEIGHT	Common DuraFET & Reference	
					SIZE B	DWG. NO. 242jahaCommonDF+Ref	REV. C
					SCALE 1:3	CAD FILE: Tornado/chem/SWfiles	SHEET 5 OF 6

