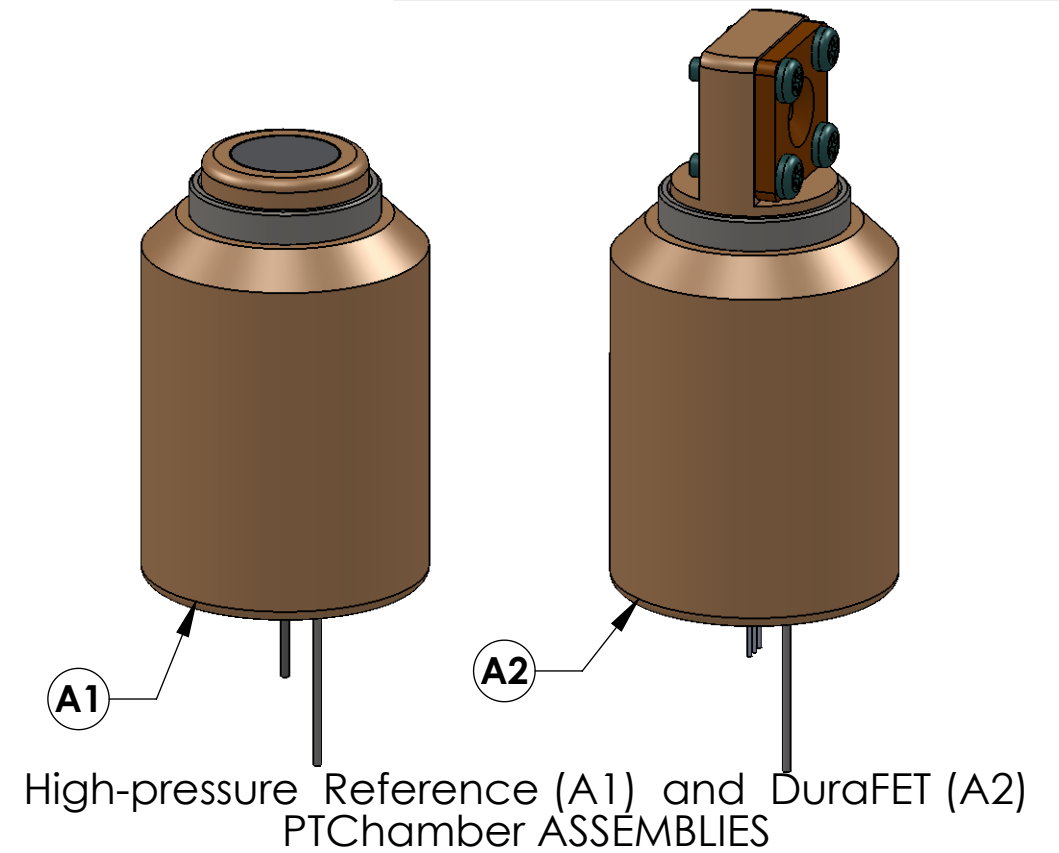
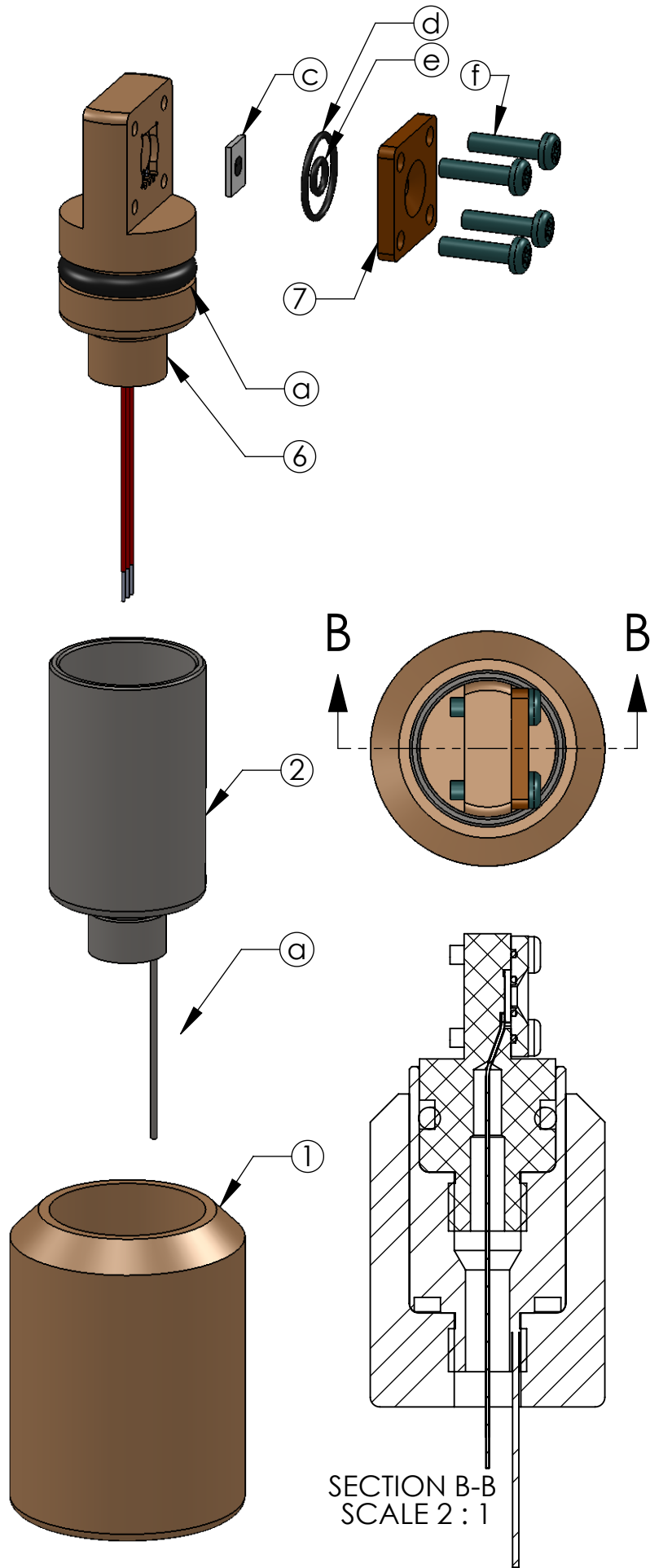
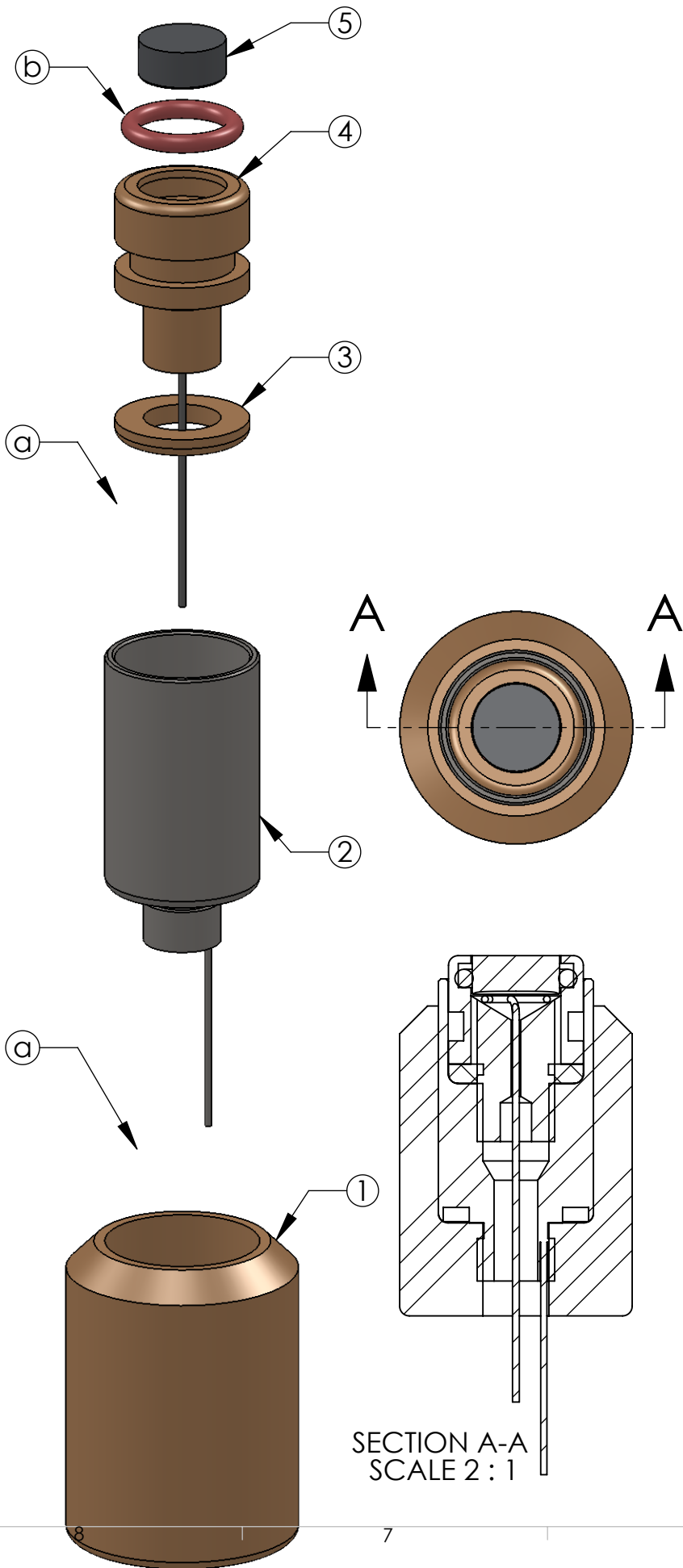


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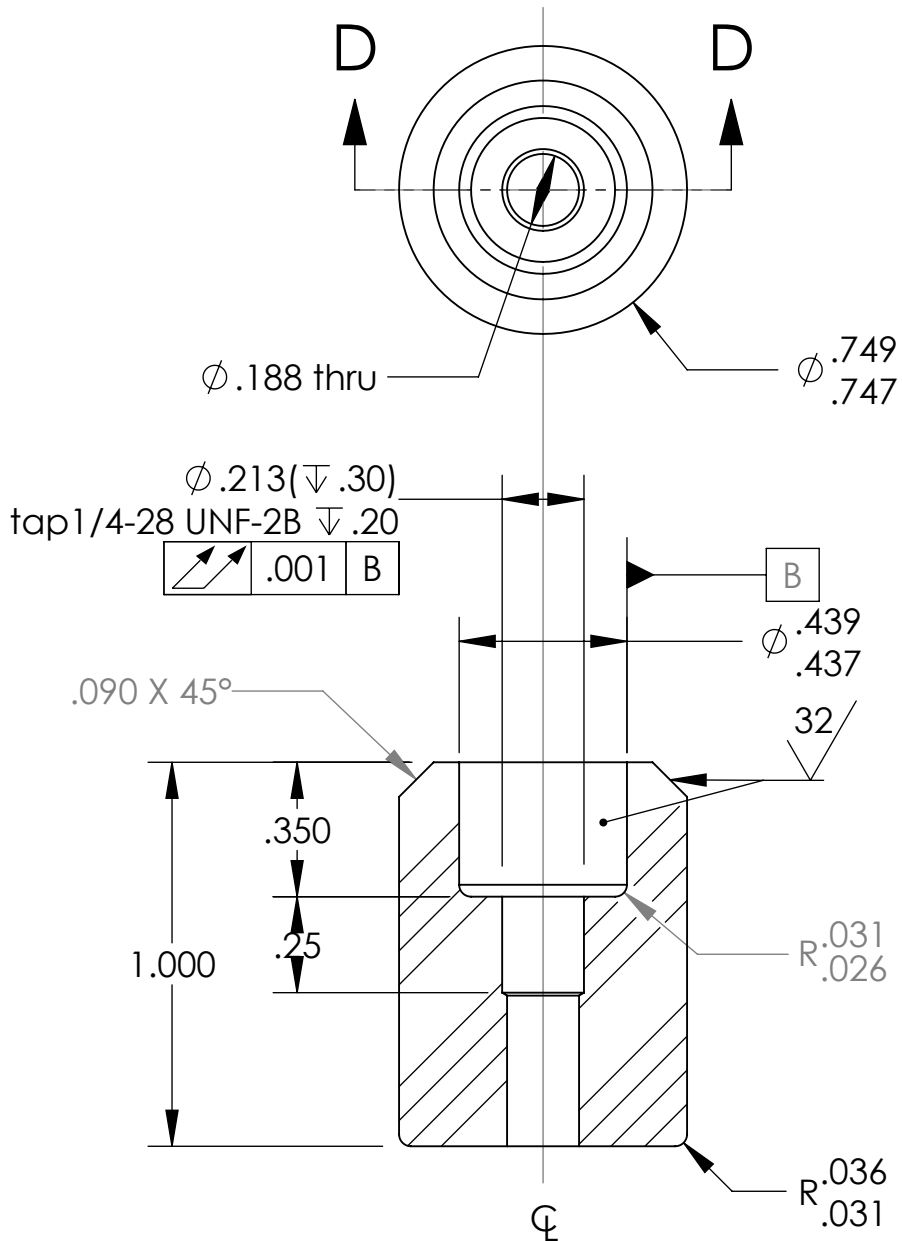
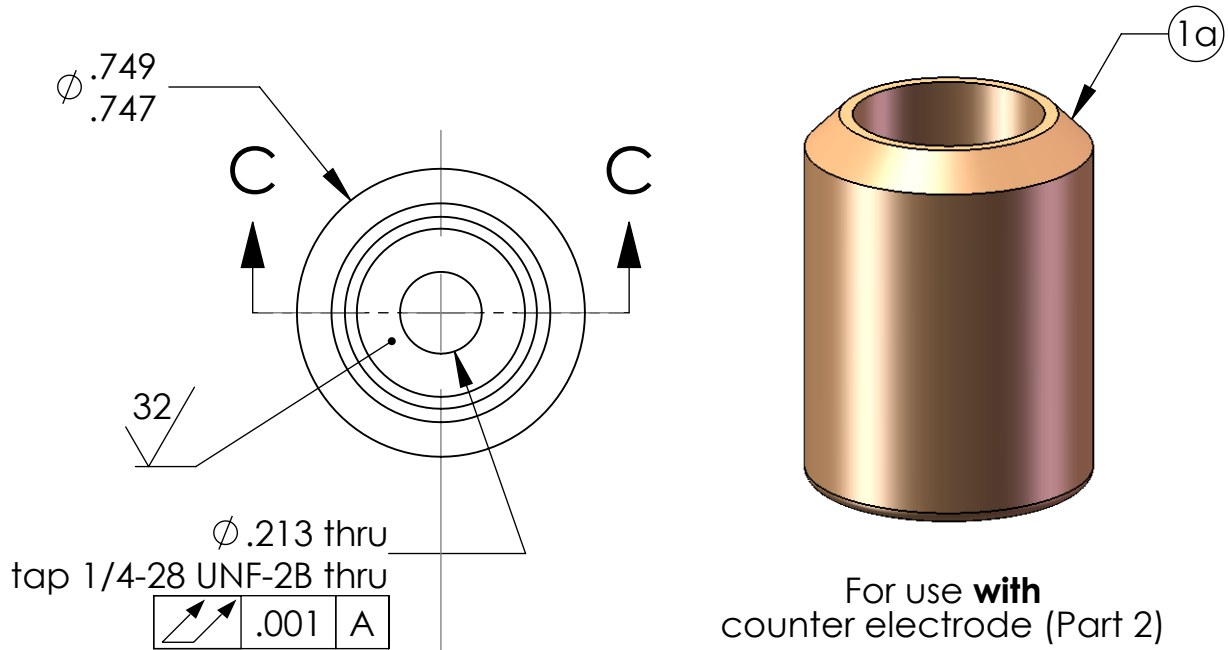
REV.	DESCRIPTION	DATE	APPROVED
INITIAL RELEASE			
A	Modified DFmount and CounterElectrode	9/15/11	hwj
B	Increased cover thickness	10/16/11	hwj

Item No.	Qty	Part No.	Description	Material Specification
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	

Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS		DATE		Monterey Bay Aquarium Research Institute	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN	Hans Jannasch 5/30/11	MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700	
Shop Foreman		1. DIMENSIONS ARE IN INCHES				ENGINEER			
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.				CHECKED		Common DuraFET & Reference	
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	SIZE B DWG. NO. 242jahaCommonDF+Ref REV. B	
		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.						SCALE 1:3 CAD FILE: Tornado/chem/SWfiles SHEET 1 OF 6	
Application		DO NOT SCALE DRAWING							

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



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

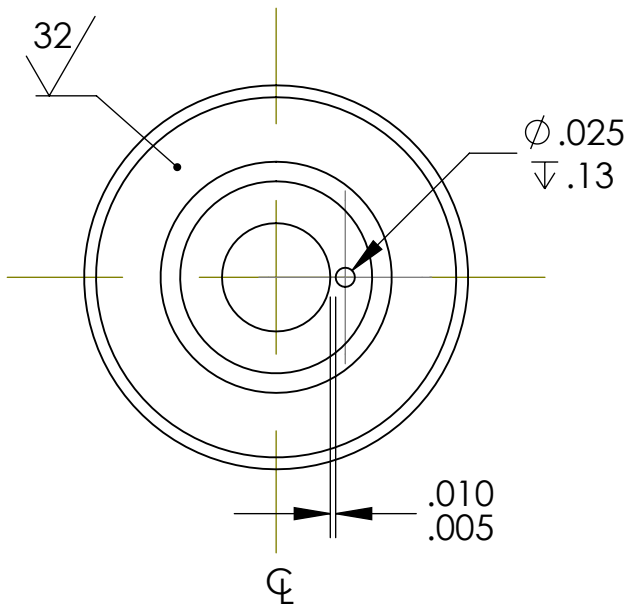
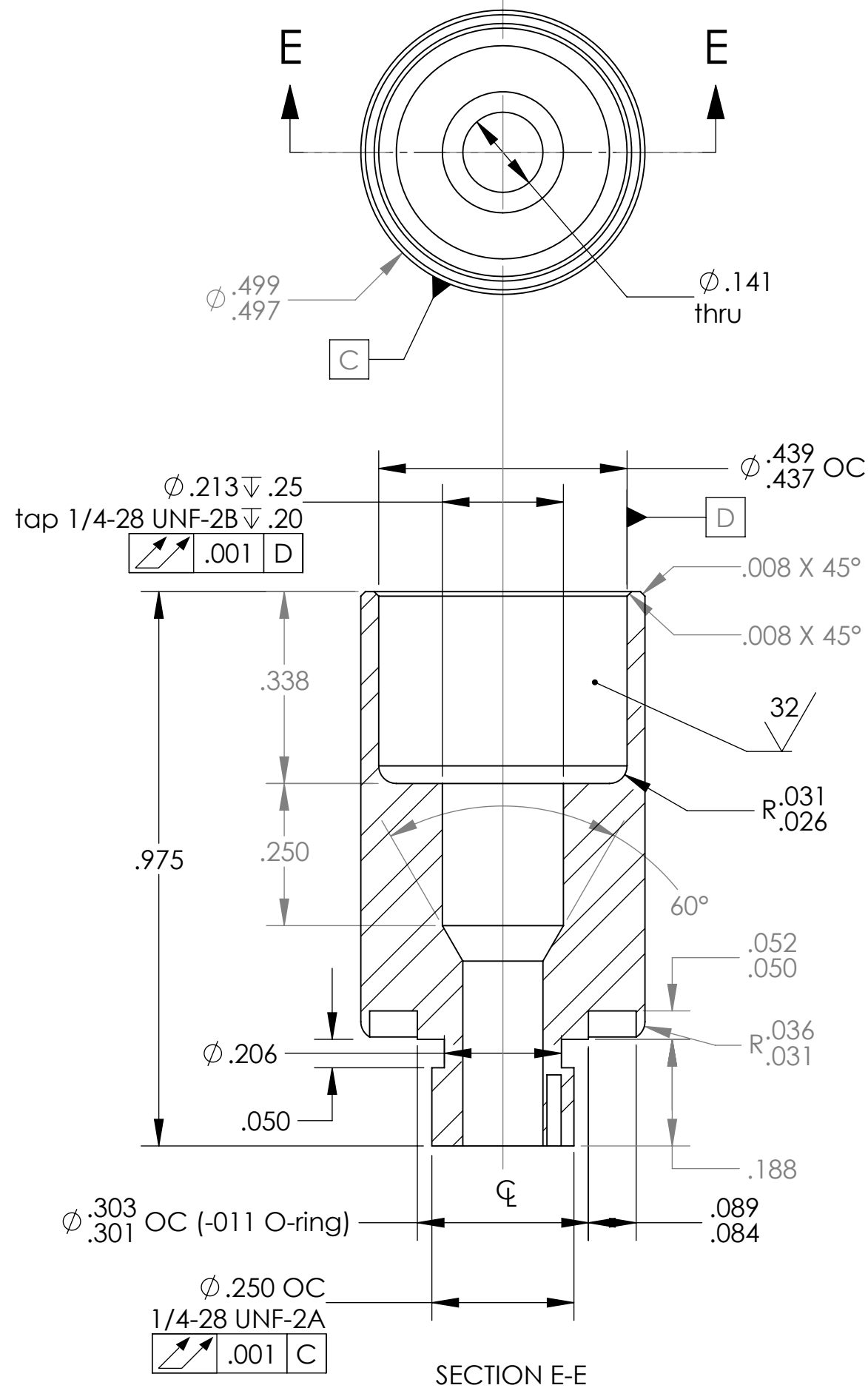
SECTION C-C

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				
		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. B	
SCALE 1:3		CAD FILE: Tornado/chem/SWfiles			SHEET 2 OF 6	

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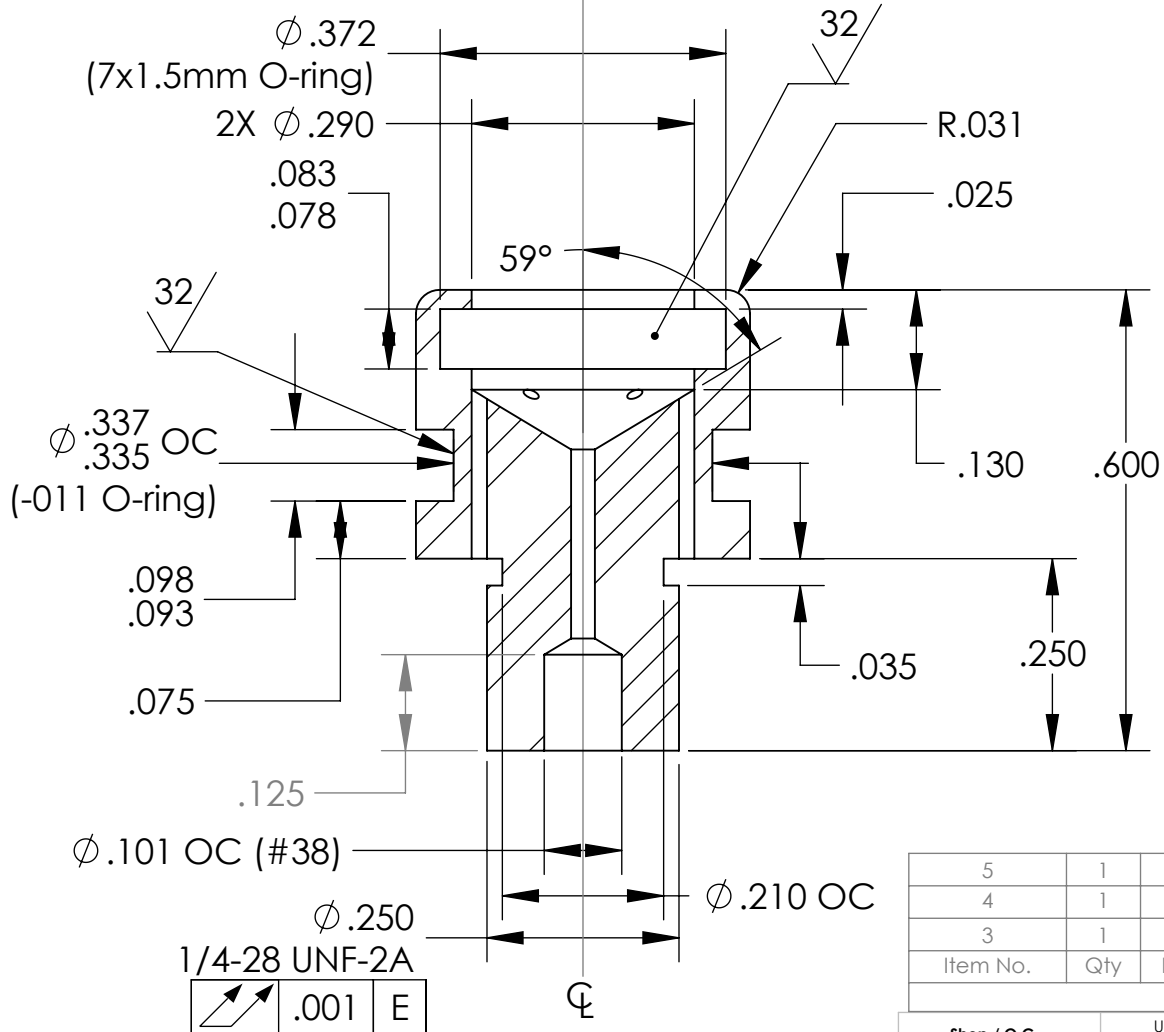
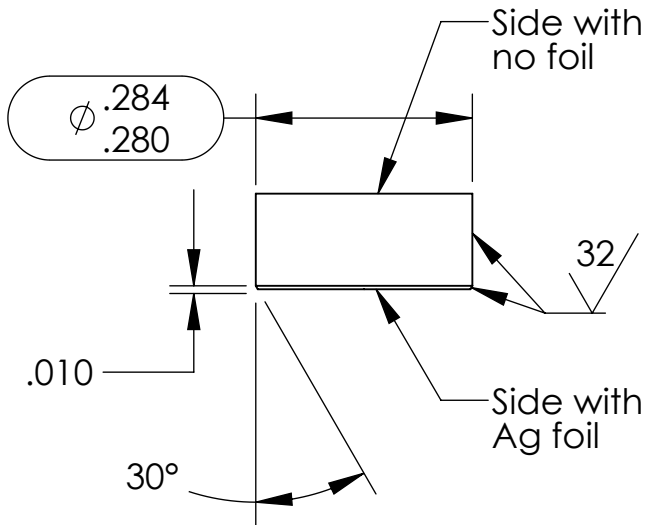
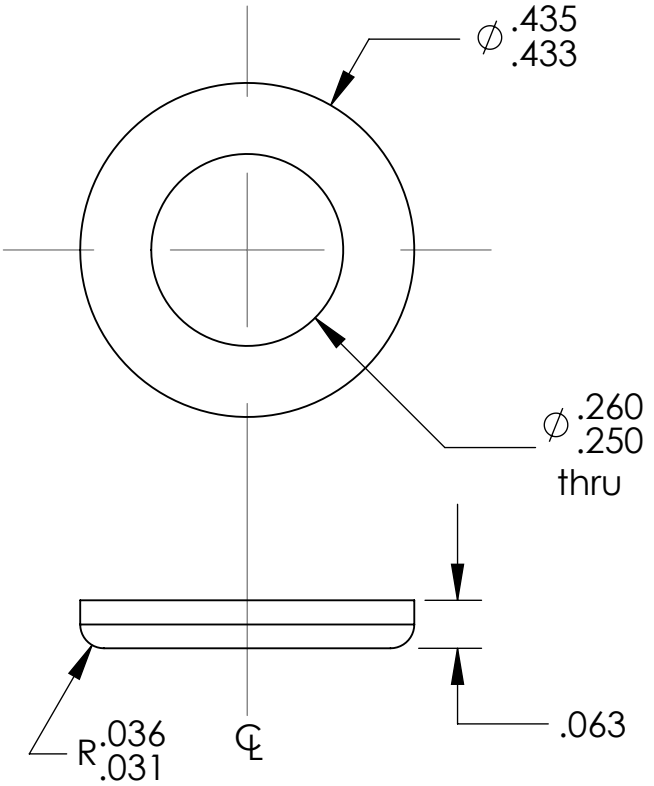
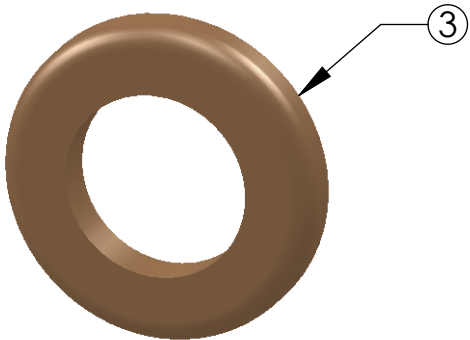
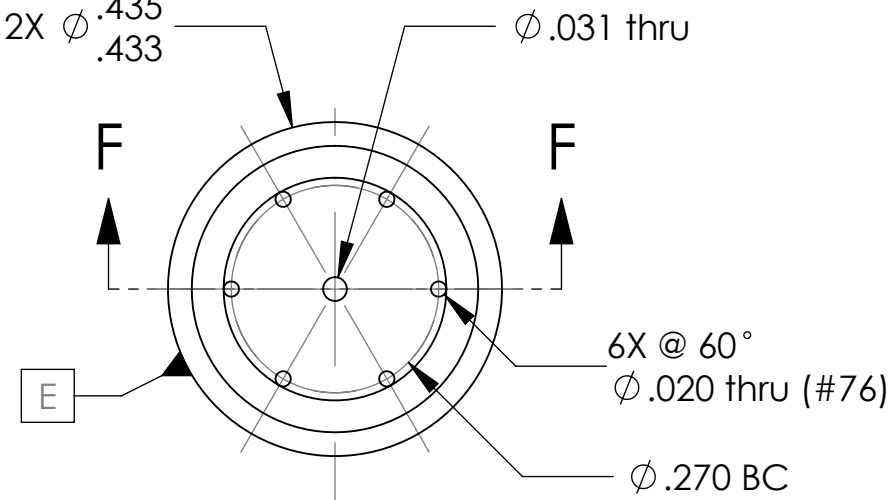
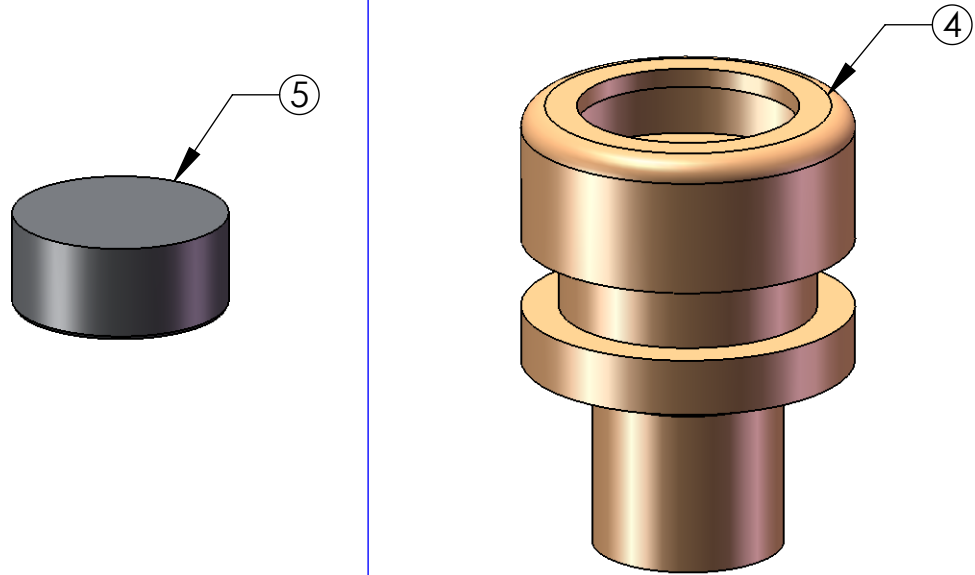
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		
A	Modified DFmount and CounterElectrode	9/15/11	hwj
B	Increased cover thickness	10/16/11	hwj



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.					
		4. MACHINED FILLET RADII .0150-.030.				PROJECT NO. 900918	
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005				PROJECT Novel Sensors	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.					
Application		DO NOT SCALE DRAWING				WEIGHT	
							
						MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700	
						Common DuraFET & Reference	
		SIZE B		DWG. NO. 242jahaCommonDF+Ref		REV. B	
		SCALE 1:3		CAD FILE: Tornado/chem/SWfiles		SHEET 3 OF 6	

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



SECTION F-F
SCALE 4 : 1

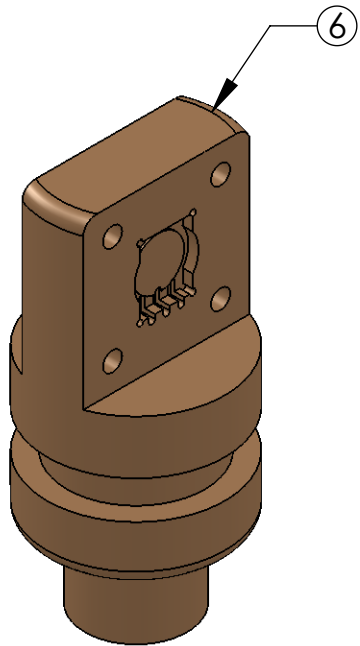
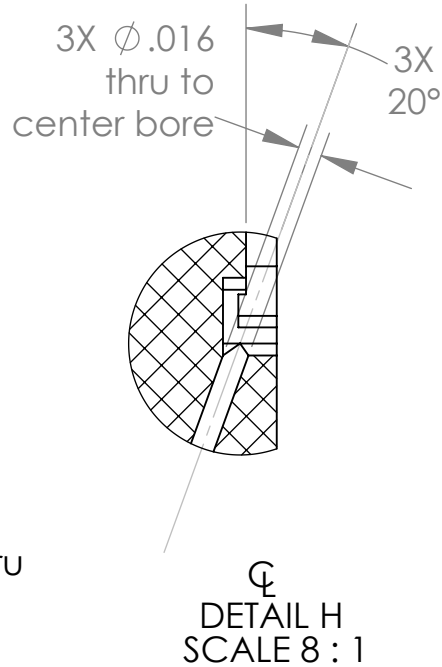
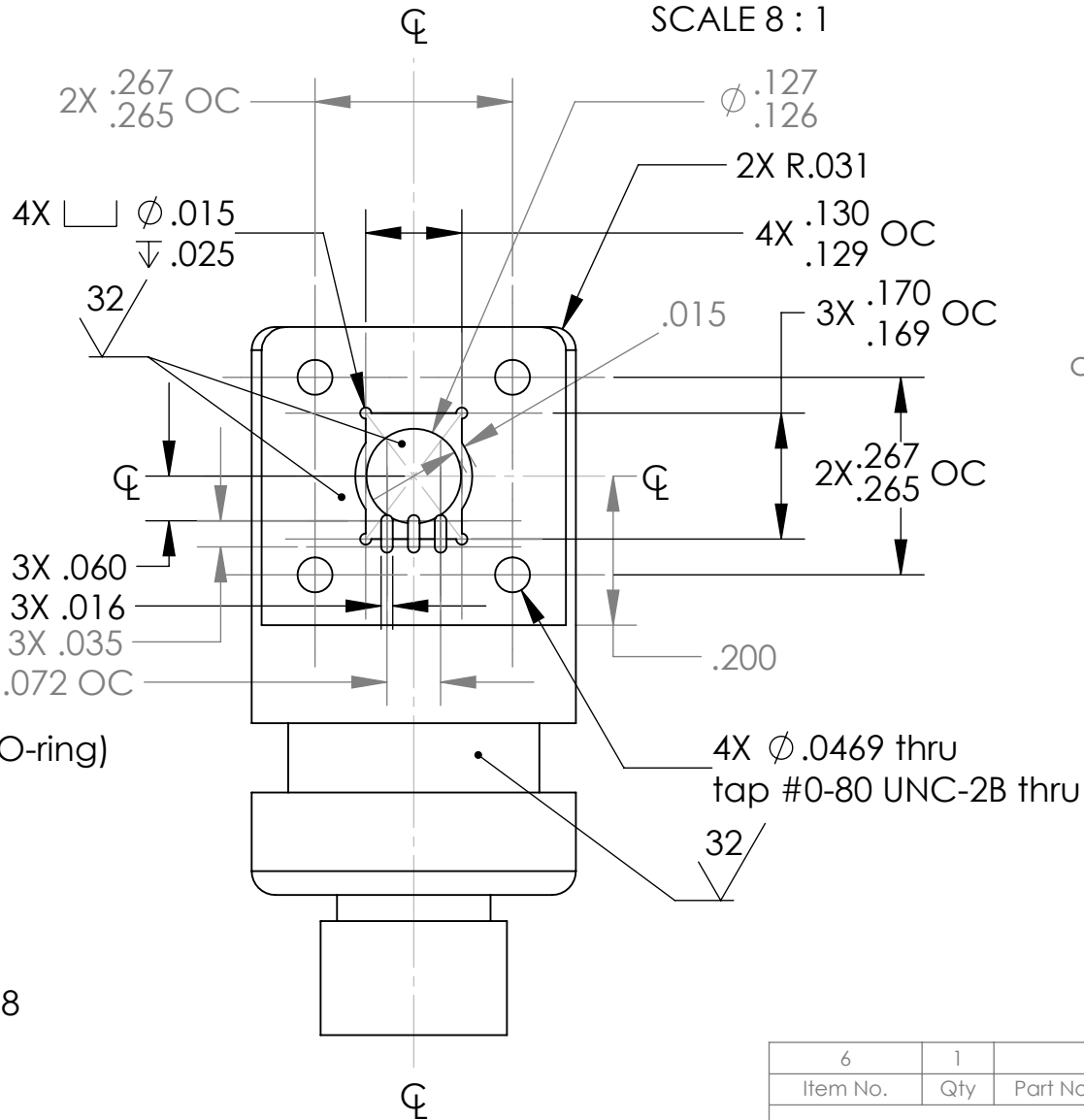
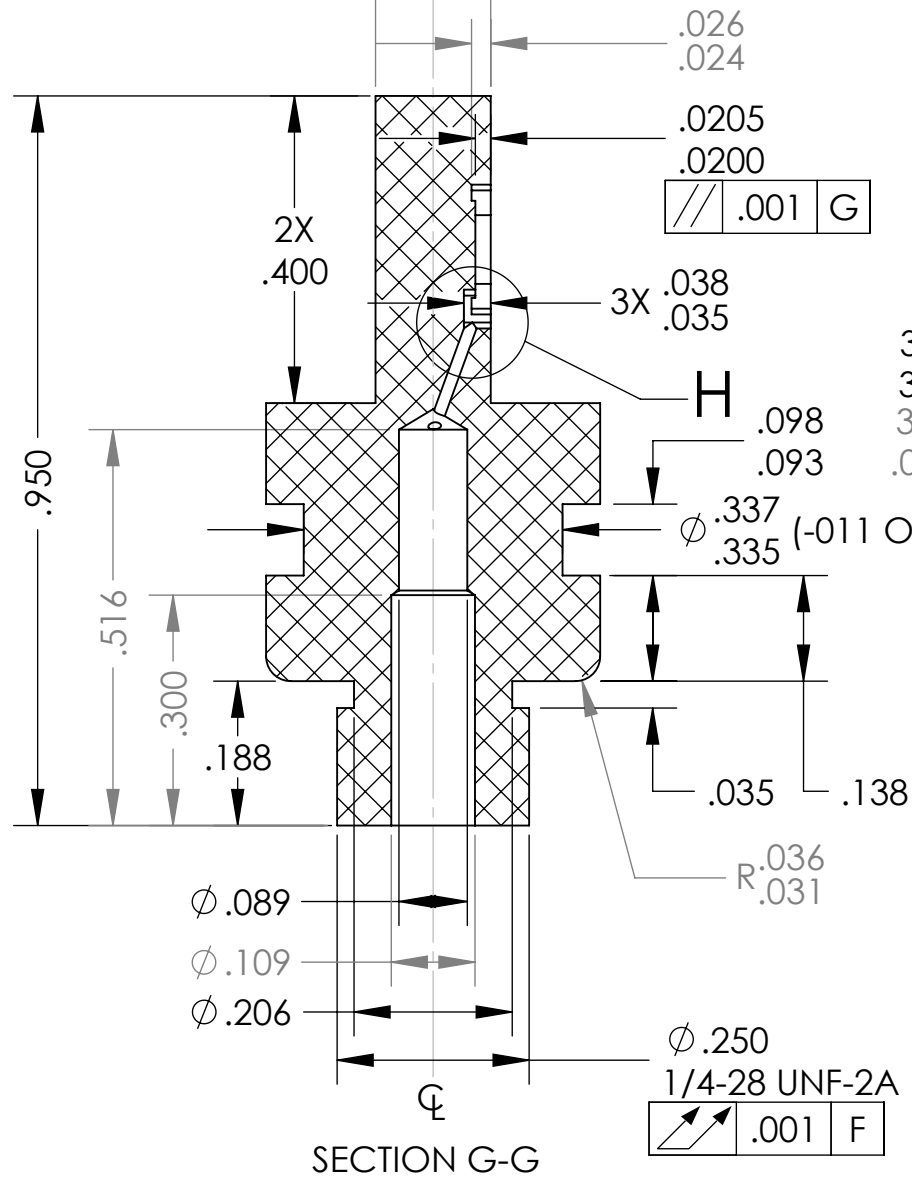
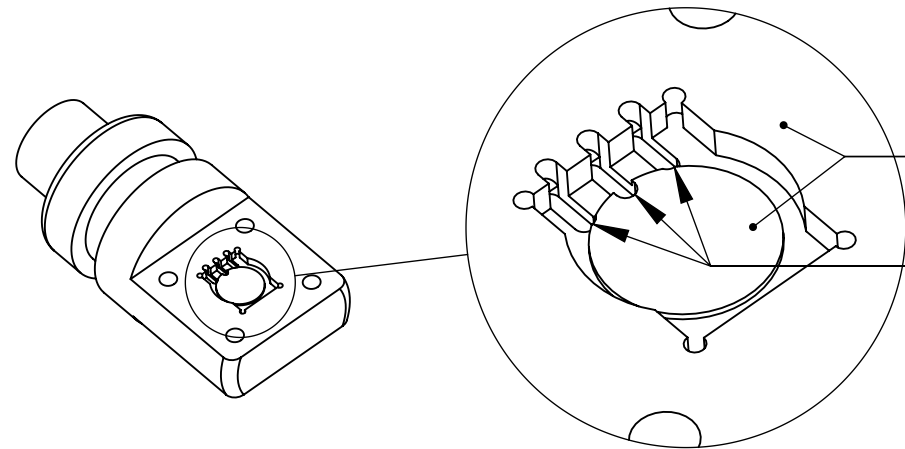
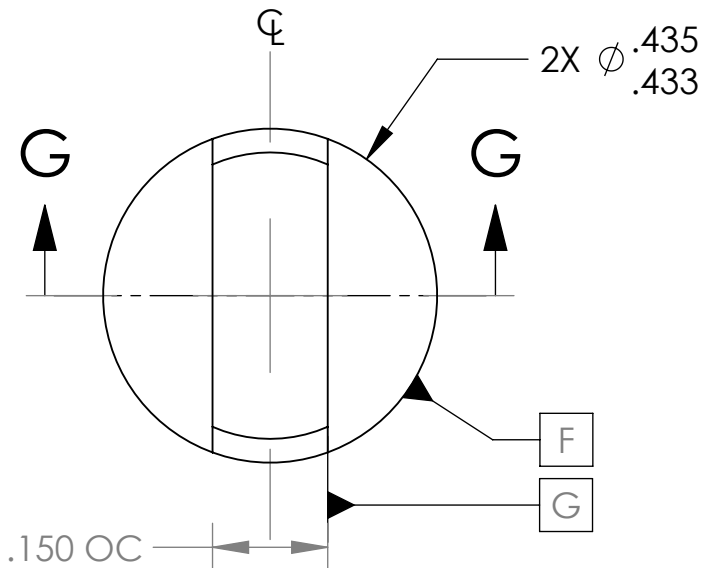
Note: Machine chamfer while turning pellet in clean soft collet with clean sharp tool. Use NO oil or other fluids. Handle pellet with clean latex gloves.

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

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
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
Engineer						CHECKED
						PROJECT NO. 900918
NEXT ASSY Description	NEXT ASSY Number					PROJECT Novel Sensors
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. B	
SCALE 1:3		CAD FILE: Tornado/chem/SWfiles			SHEET 4 OF 6	

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		
A	Modified DFmount and CounterElectrode	9/15/11	hwj
B	Increased cover thickness	10/16/11	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	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DATE	
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.				DRAWN Hans Jannasch 5/30/11	
Engineer						ENGINEER	
						CHECKED	
NEXT ASSY Description		NEXT ASSY Number	PROJECT NO.				900918
			PROJECT				Novel Sensors
Application		DO NOT SCALE DRAWING				WEIGHT	
						SIZE B	
						DWG. NO. 242jahaCommonDF+Ref	
						REV. B	
SCALE		1:3	CAD FILE: Tornado/chem/SWfiles			SHEET 5 OF 6	

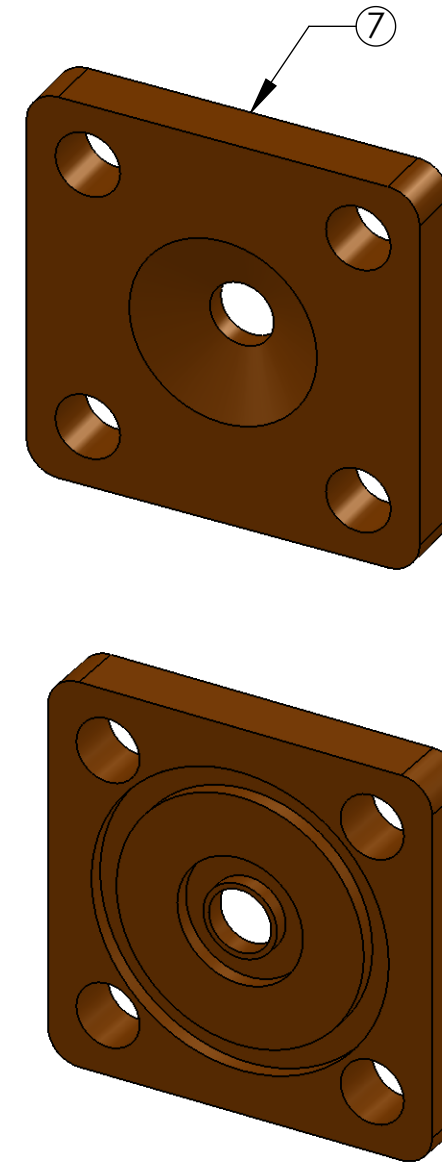
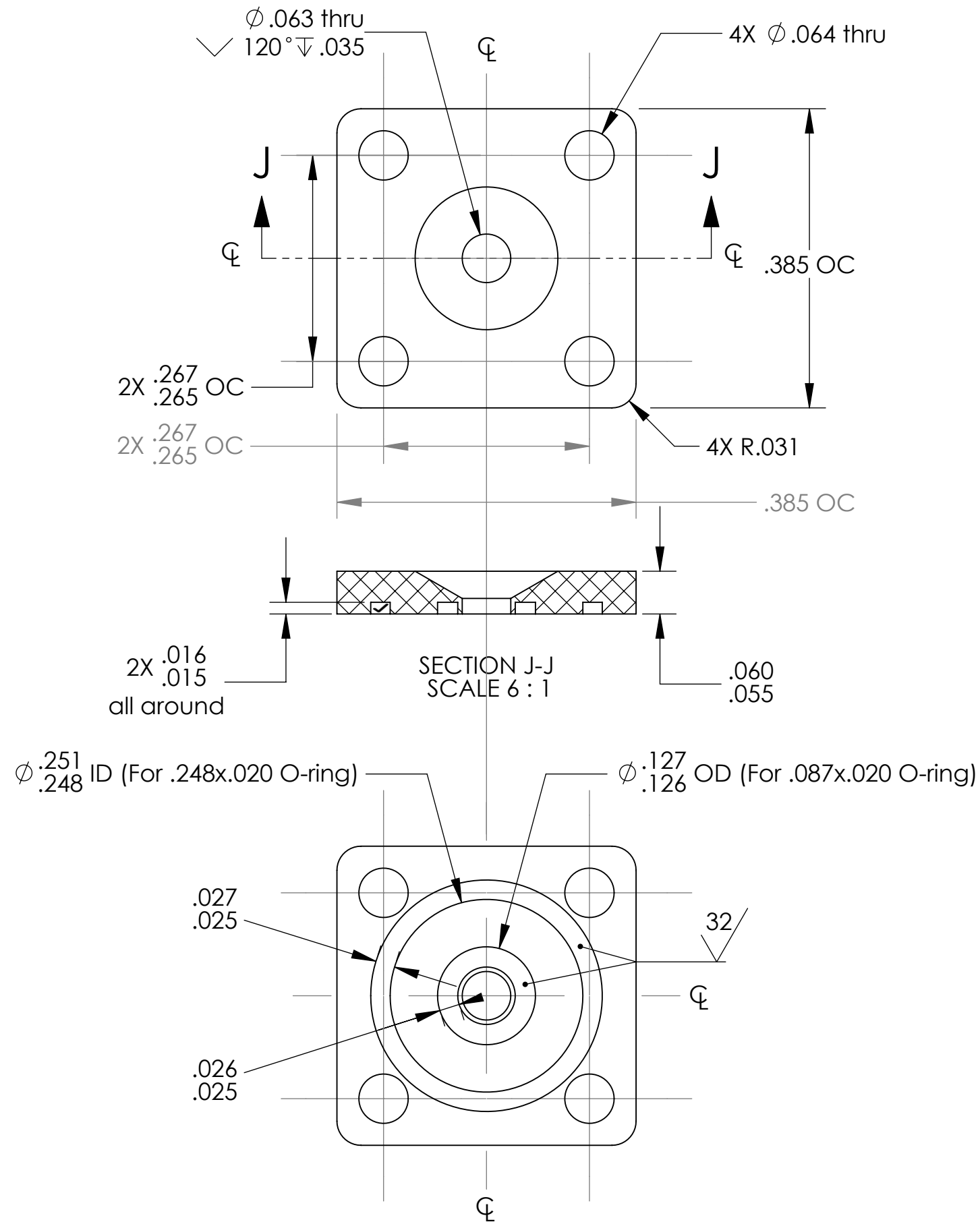
Monterey Bay Aquarium Research Institute
MBARI
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (831) 775-1700

Common DuraFET & Reference

REV. B

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



7		1		DuraFET Cover		PEEK (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	
		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				DWG. NO. 242jahaCommonDF+Ref	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				REV. B	
Application		DO NOT SCALE DRAWING				WEIGHT	
						SCALE 1:3 CAD FILE: Tornado/chem/SWfiles SHEET 6 OF 6	