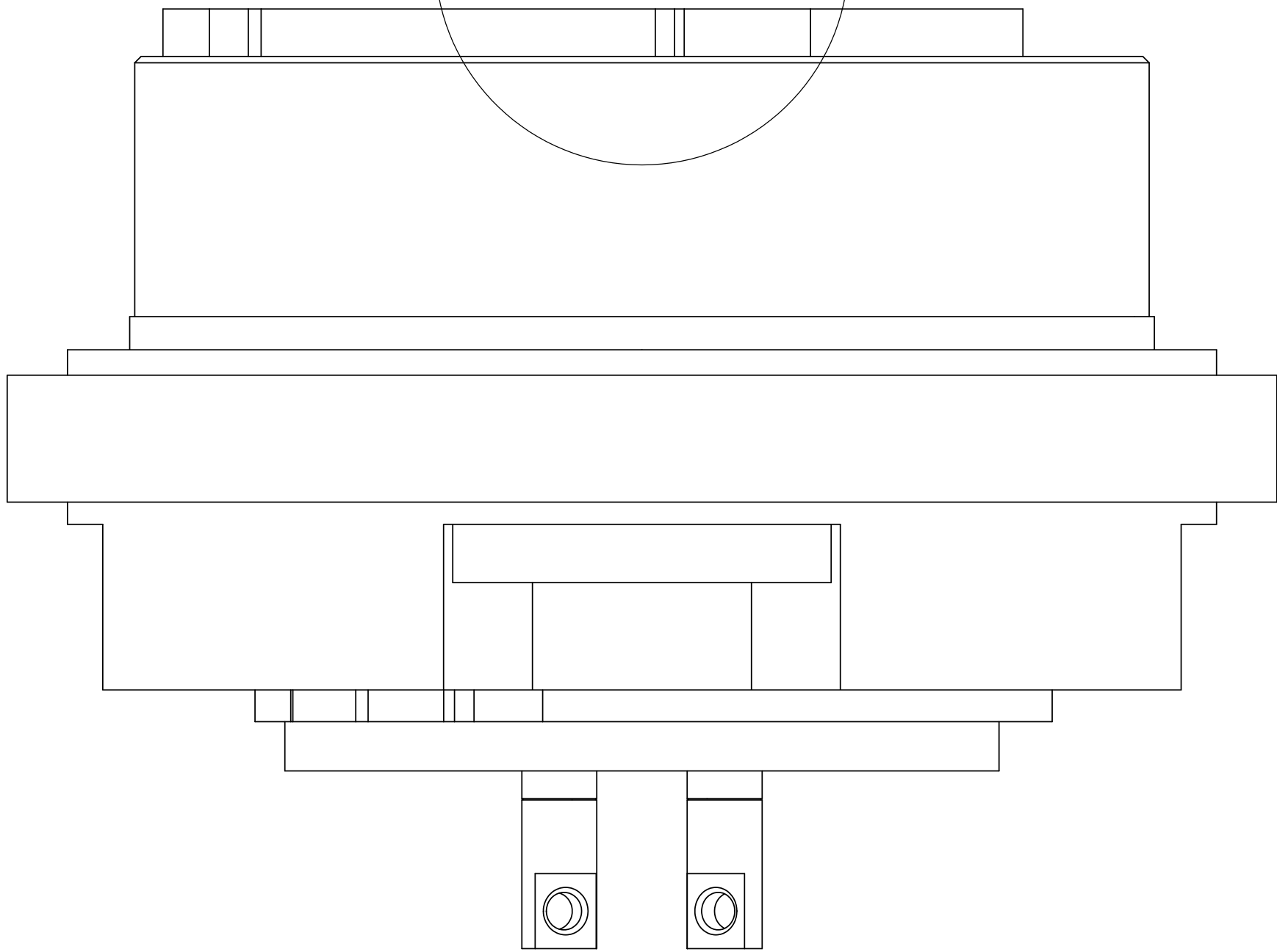
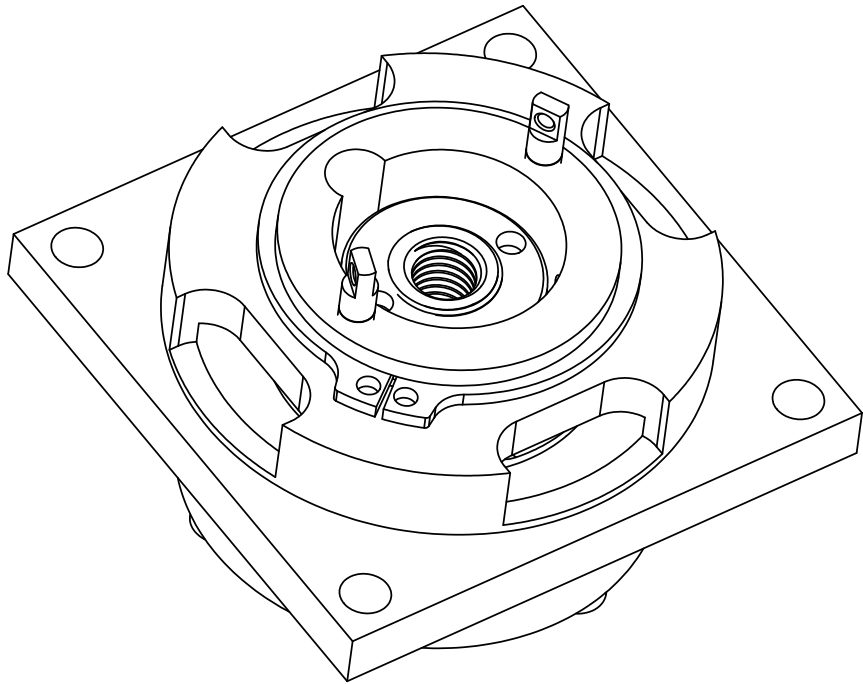
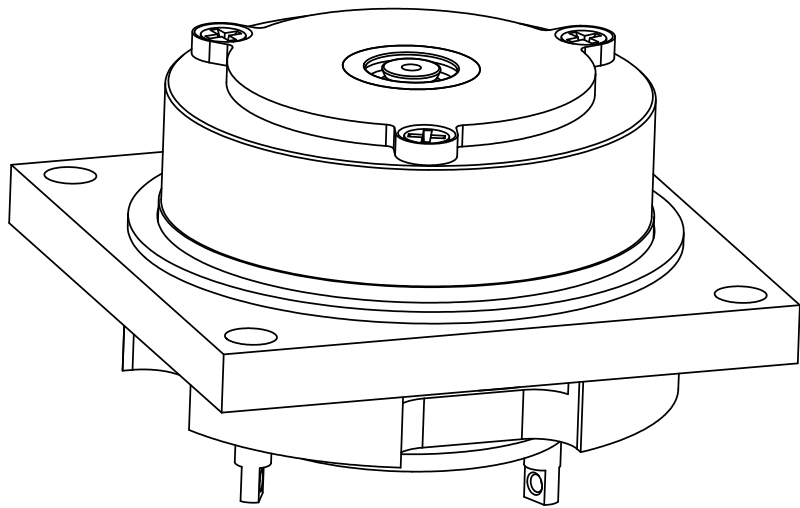
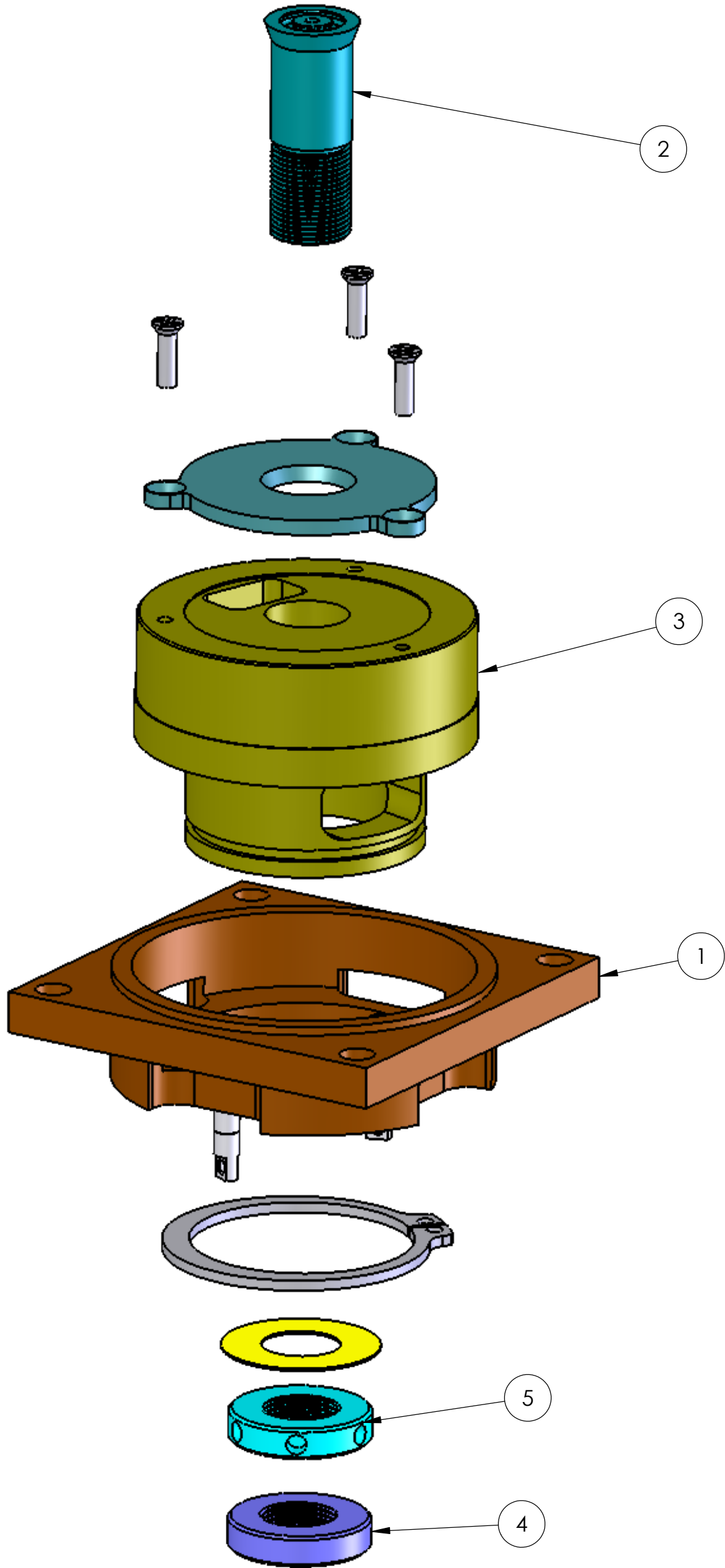
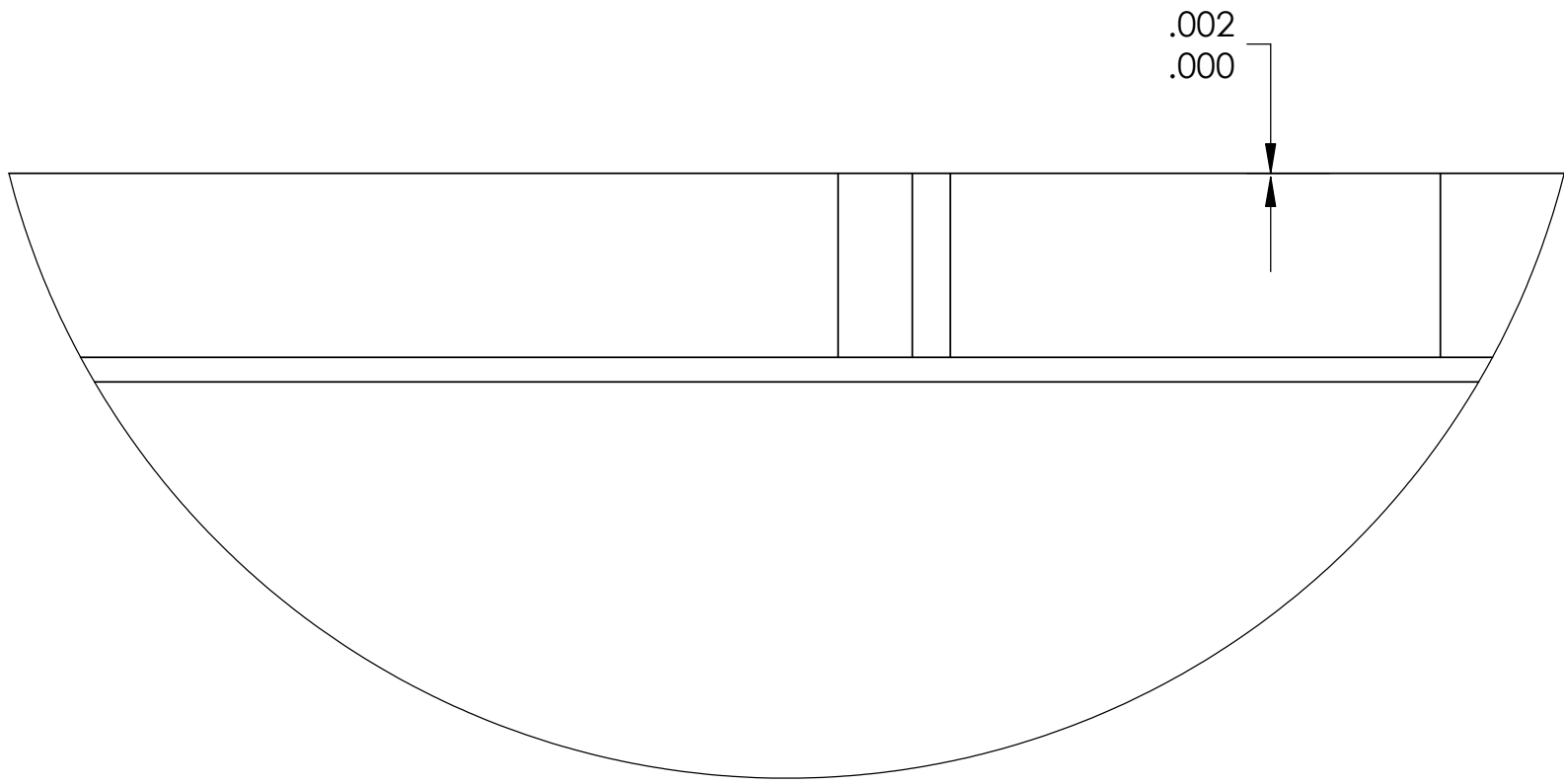


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SAMPLE HEATER ASSEMBLY

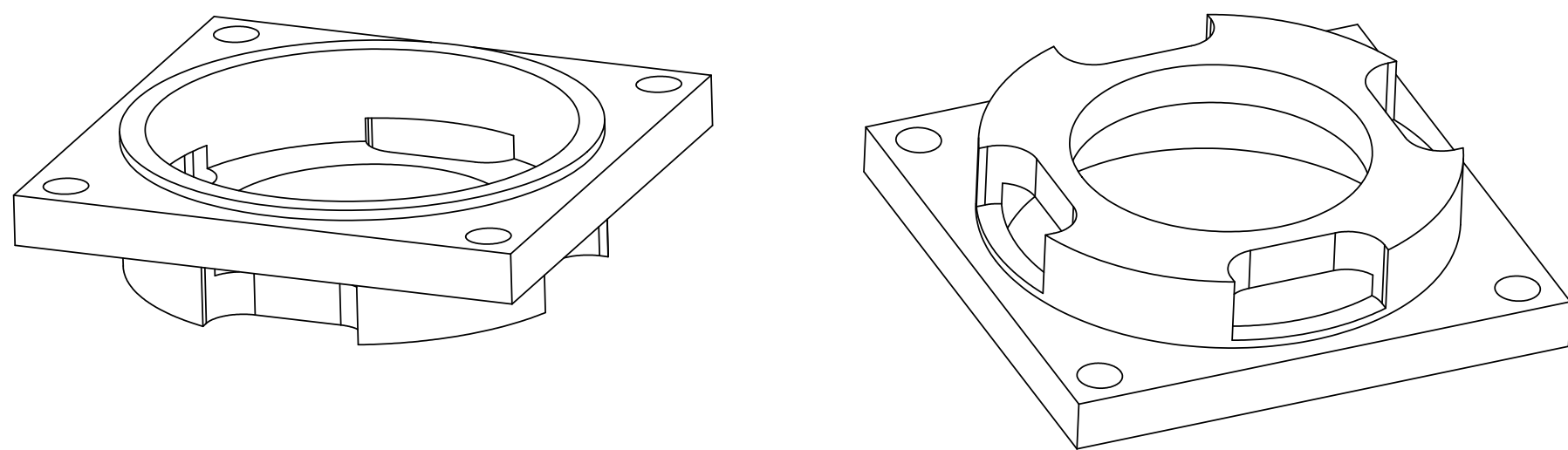
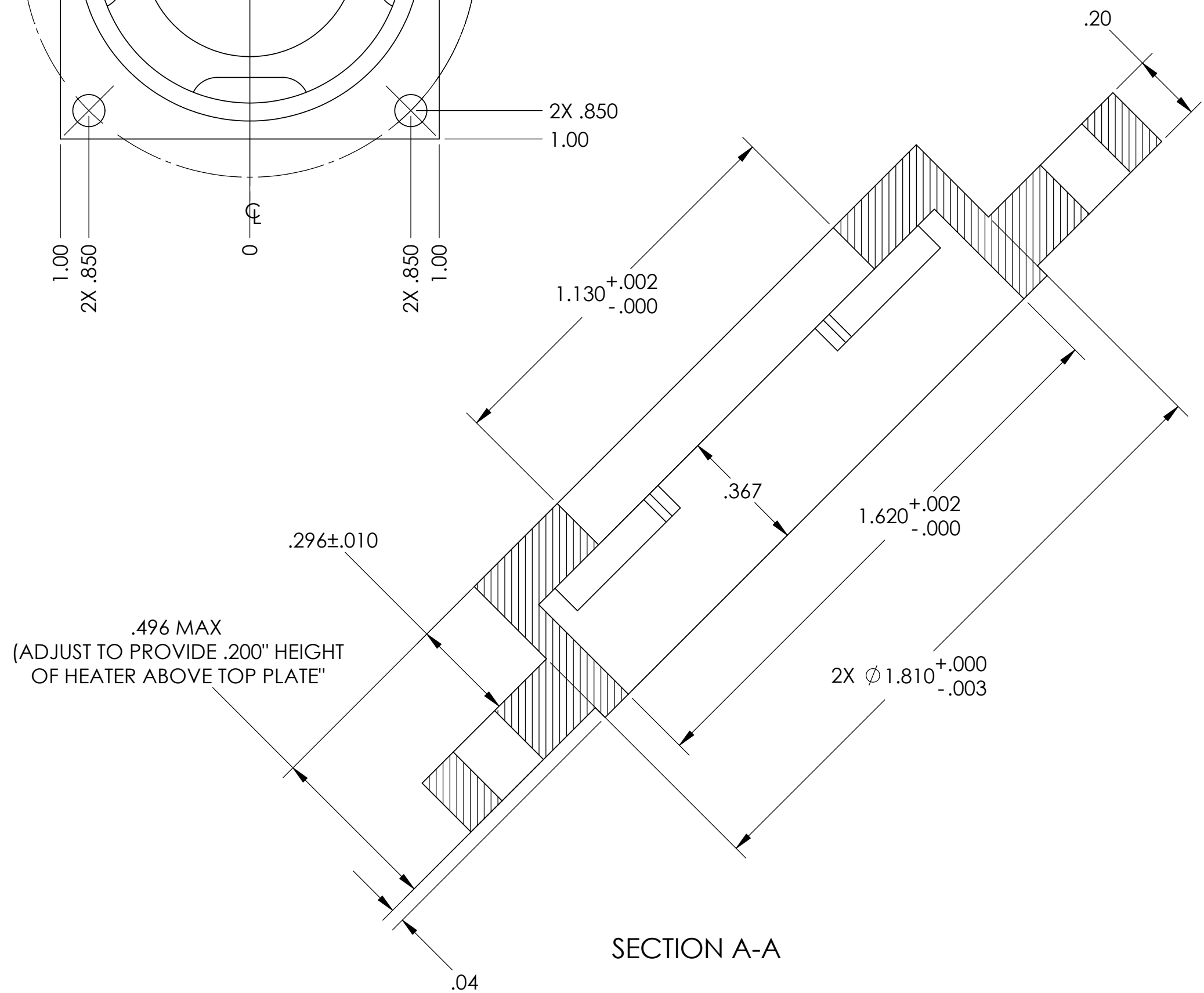
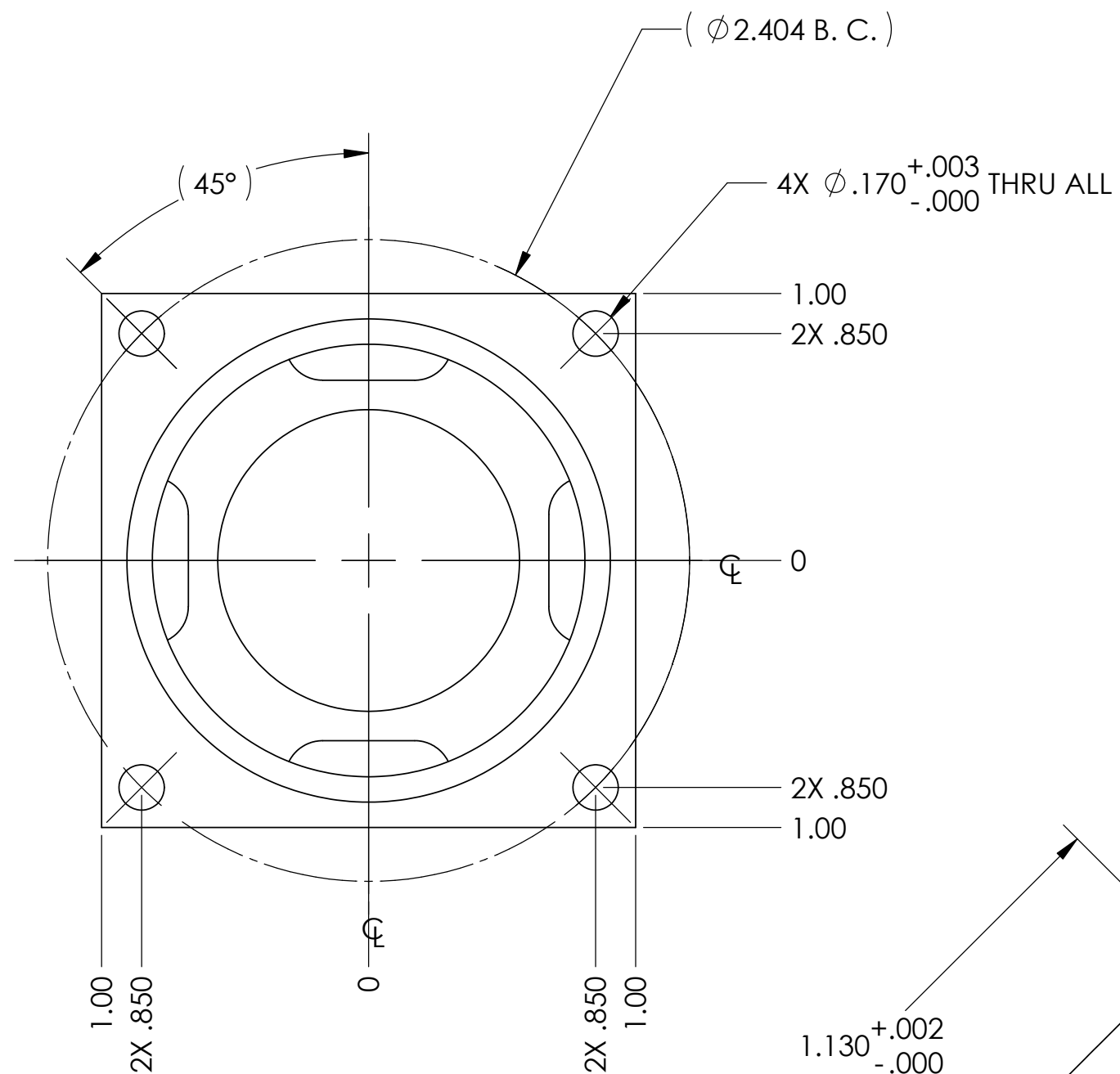


SECTION



DETAIL

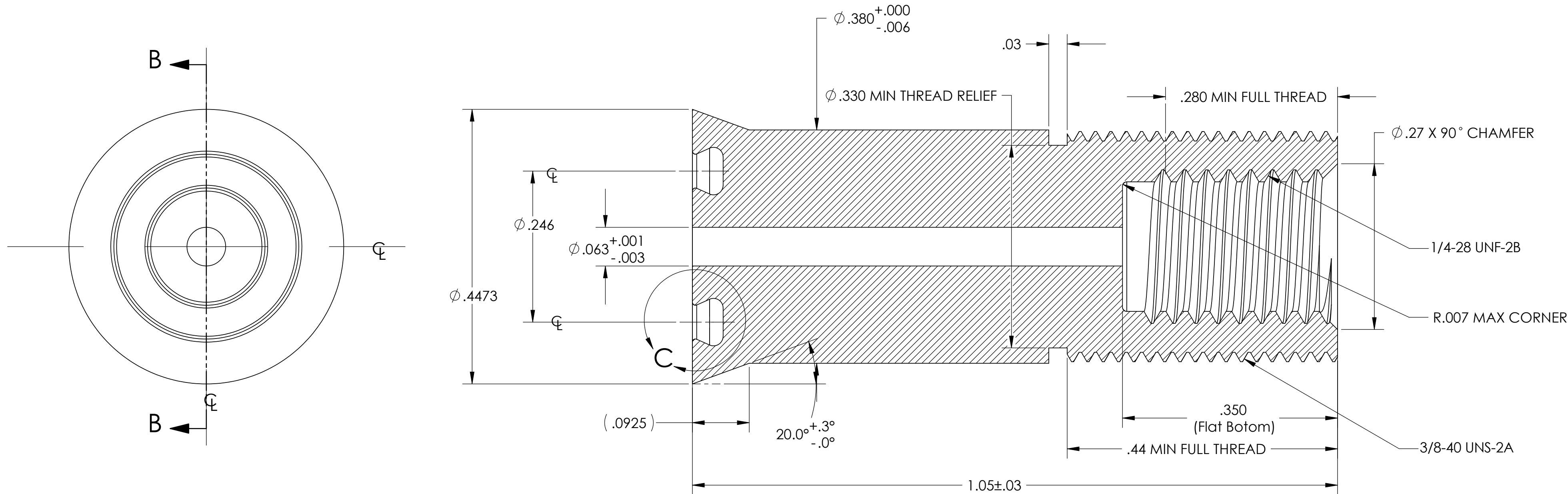
BILL OF MATERIALS				last updated on: Thursday, February 23, 2006 10:39:31 AM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS	DATE
Inspector		2 PLACE DIM ±.01	3 PLACE DIM ±.005	4 PLACE DIM ±.0005	ANGLES ±1°
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .000 TO .015 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .003 INCHES FOR SINGLE SURFACE. 7. SURFACE FINISH TO BE 32 MICRON UNLESS OTHERWISE SPECIFIED			
Engineer		Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039 			
NEXT ASSY Description	NEXT ASSY Number				
DO NOT SCALE DRAWING		PROJECT NUMBER 701312.00		HEATER - MOUNT	
		PROJECT ESP 2G		SIZE C	DWG. NO. 1002131
		CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)		REV. G	
		SHEET 1 OF 6			



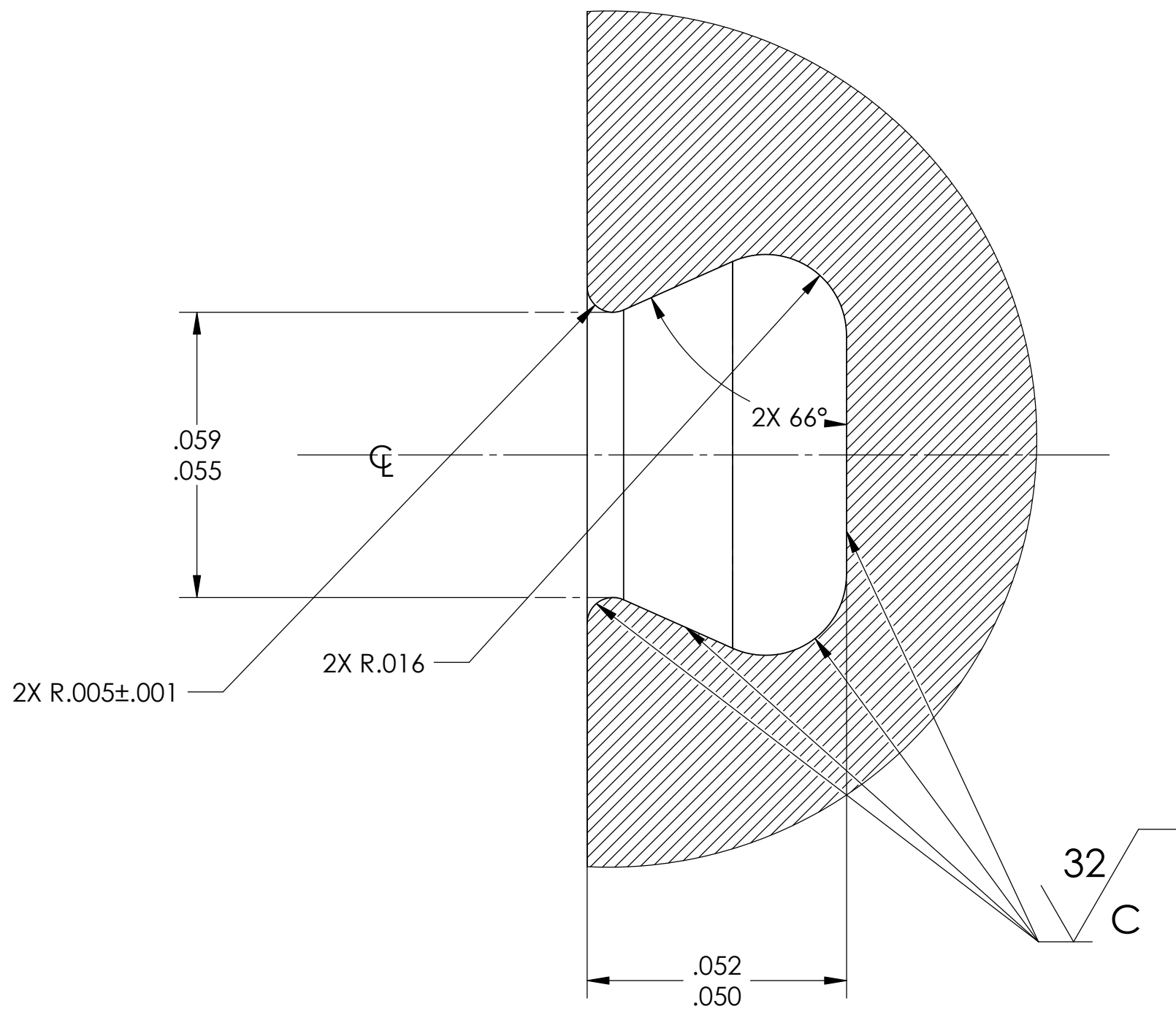
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
1	1002131-001	Sample heater base	Aluminum 6061-T6	0
BILL OF MATERIALS				
Shop / Q.C. Inspector Shop Foreman Engineer		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: 2 PLACE DIM ±.012 3 PLACE DIM ±.005 4 PLACE DIM ±.003 ANGLES ±1° 1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .000 TO .015 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .003 INCHES FOR SINGLE SURFACE. 7. SURFACE FINISH TO BE 32 MICRON UNLESS OTHERWISE SPECIFIED	APPROVALS DATE ENGINEER Jason Feldman 831-775-1837 CHECKED PROJECT NUMBER 701312.00 PROJECT ESP 2G CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)	last updated on: Thursday, February 23, 2006 10:39:31 AM Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039  HEATER - MOUNT SIZE C DWG. NO. 1002131 REV. G
DO NOT SCALE DRAWING				

TAPER FIT FLUID CONNECTION

1002131-002



SECTION B-B



DETAIL C

TO UTILIZE O-RING:
material: BUNA-N
durometer: 70 Shore A
size: 2-008

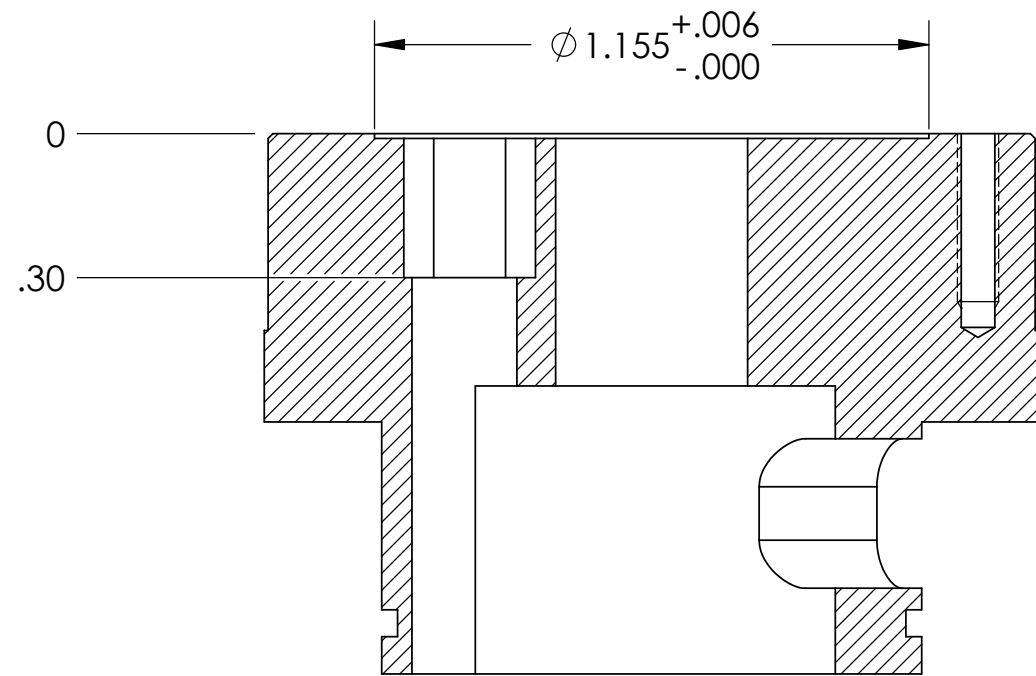
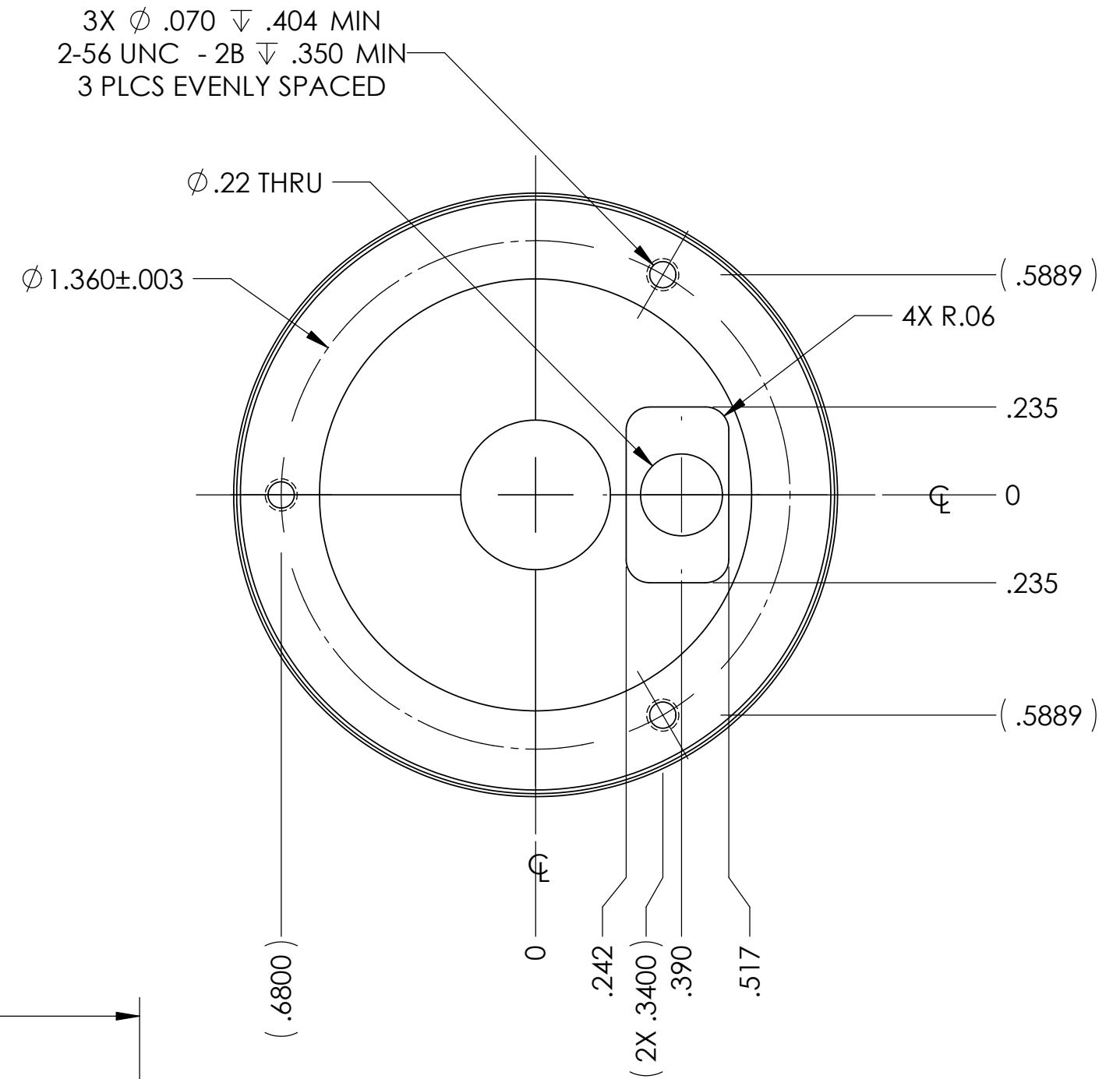
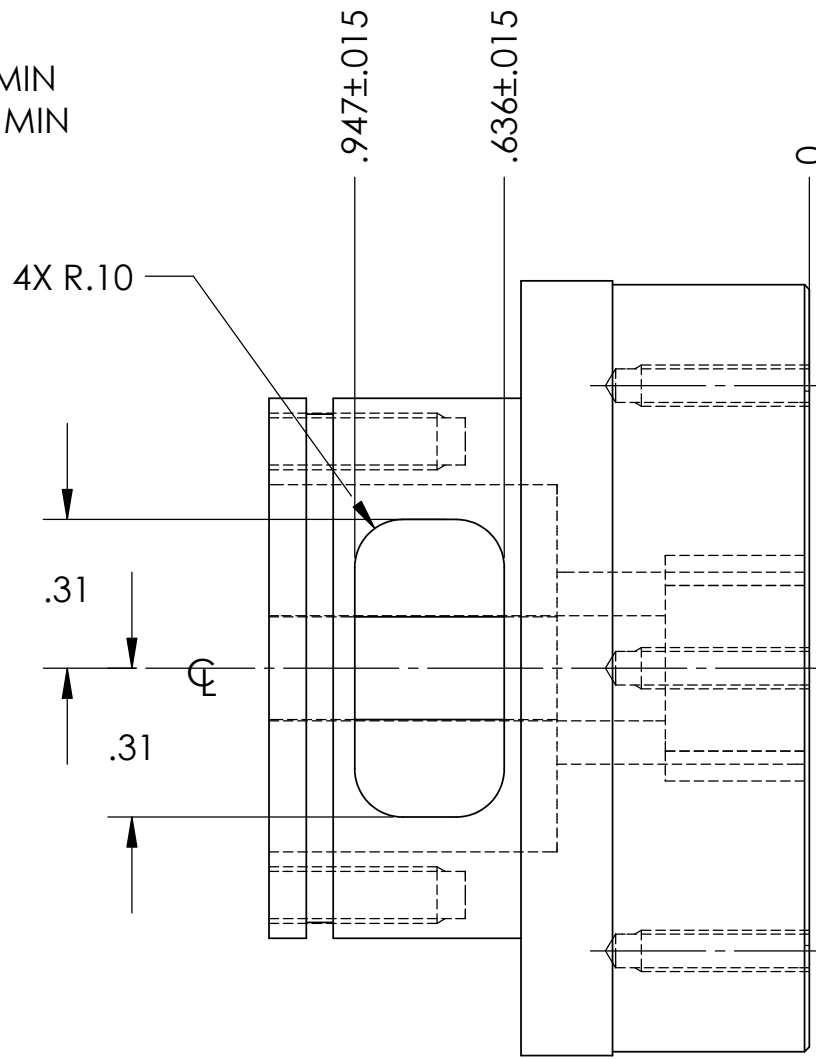
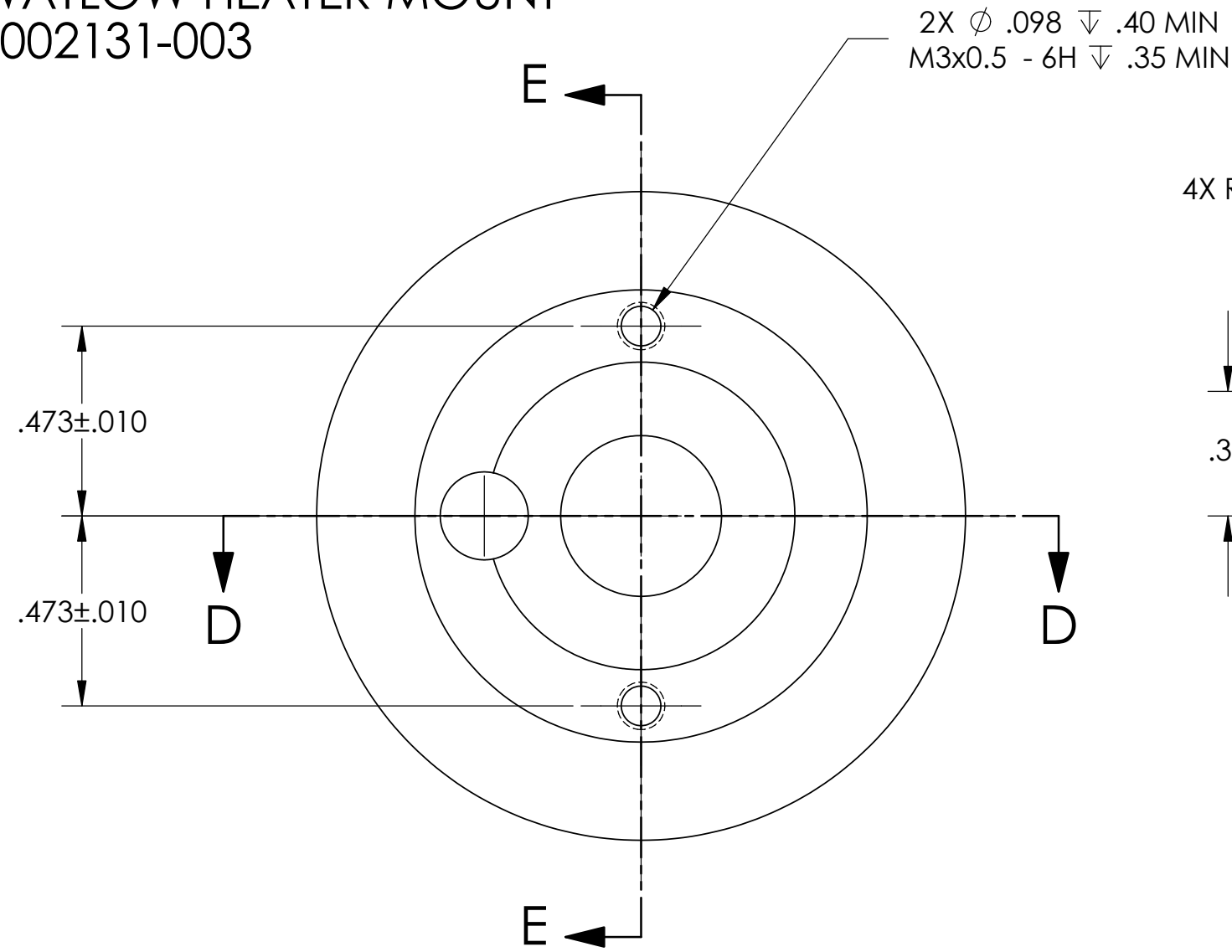
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
2	1002131-002	taper fit fluid fluid connection	Vespel SP-1	1
3	1002131-002	taper fit fluid fluid connection	Celazole	1

Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS		DATE	
Inspector		2 PLACE DIM ±.01	3 PLACE DIM ±.005	4 PLACE DIM ±.0005	ANGLES ±1°	ENGINEER	
Shop Foreman		1. DIMENSIONS ARE IN INCHES				Jason Feldman	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING				831-775-1837	
NEXT ASSY Description		3. REMOVE BURRS & SHARP EDGES .010 MAX				CHECKED	
NEXT ASSY Number		4. MACHINED FILLET RADII .000 TO .015				PROJECT NUMBER	
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005				701312.00	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX. .003 INCHES FOR SINGLE SURFACE.				PROJECT	
		7. SURFACE FINISH TO BE 32 MICRON UNLESS OTHERWISE SPECIFIED				ESP 2G	
DO NOT SCALE DRAWING		CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)				SHEET 3 OF 6	

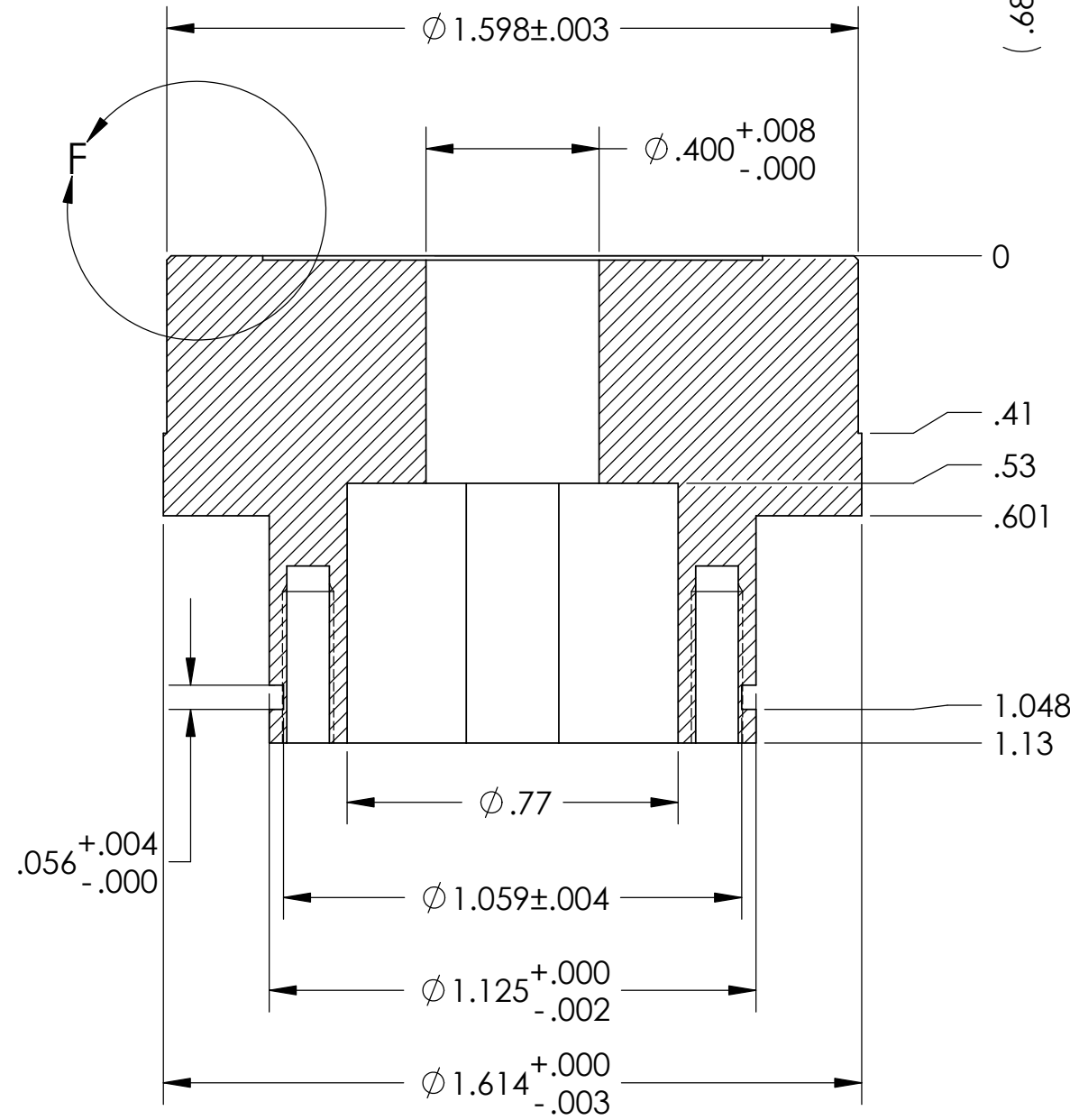
Monterey Bay Aquarium Research Institute		7700 Sandholdt Road	
M B A R I		Moss Landing, CA	
95039		HEATER - MOUNT	
SIZE C		DWG. NO. 1002131	
		REV. G	

WATLOW HEATER MOUNT

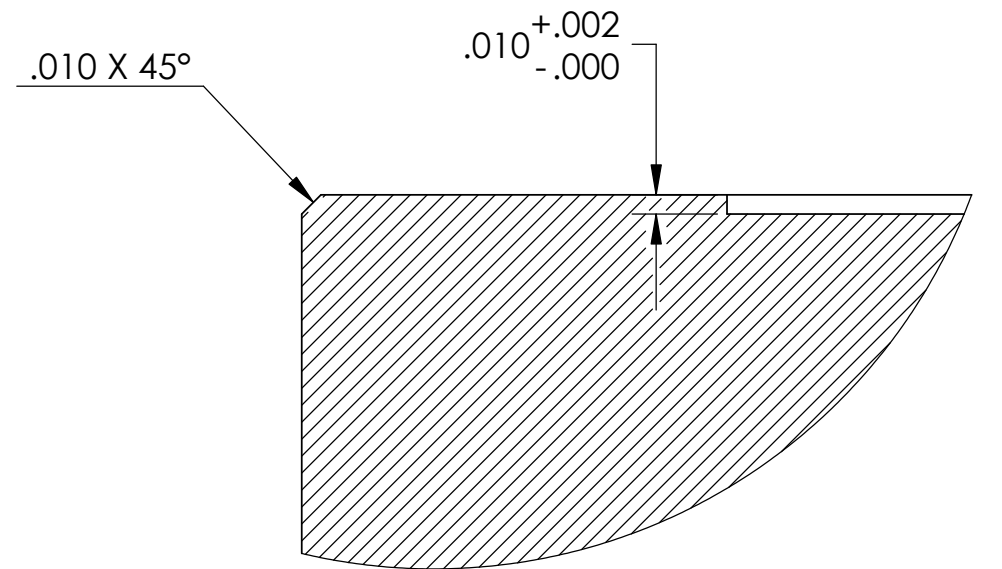
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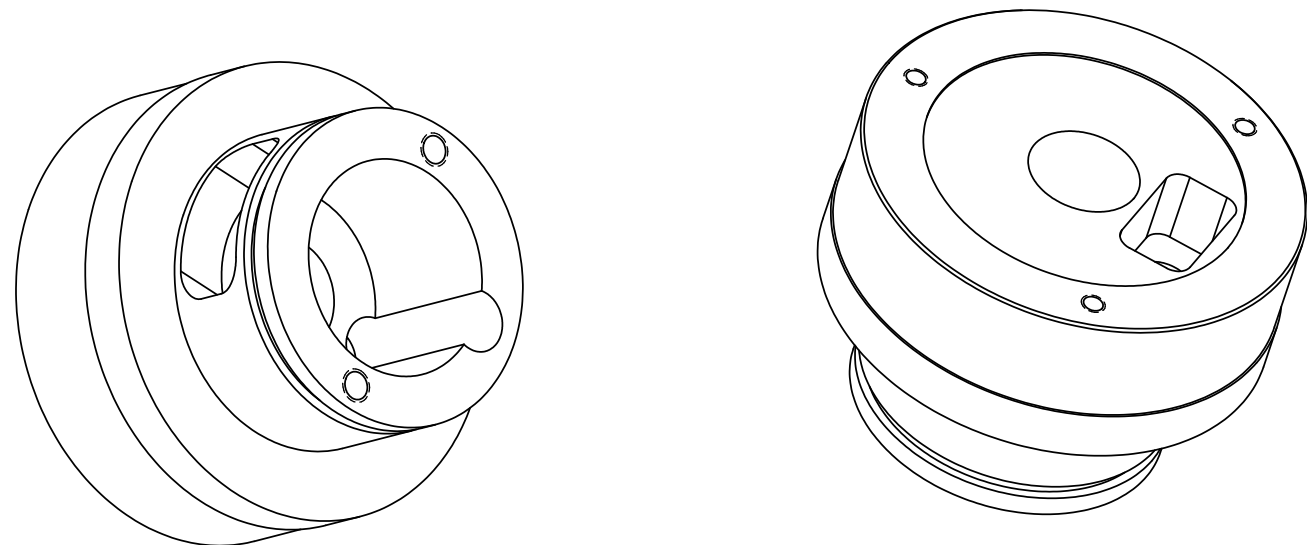
SECTION D-D



SECTION E-E



DETAIL F

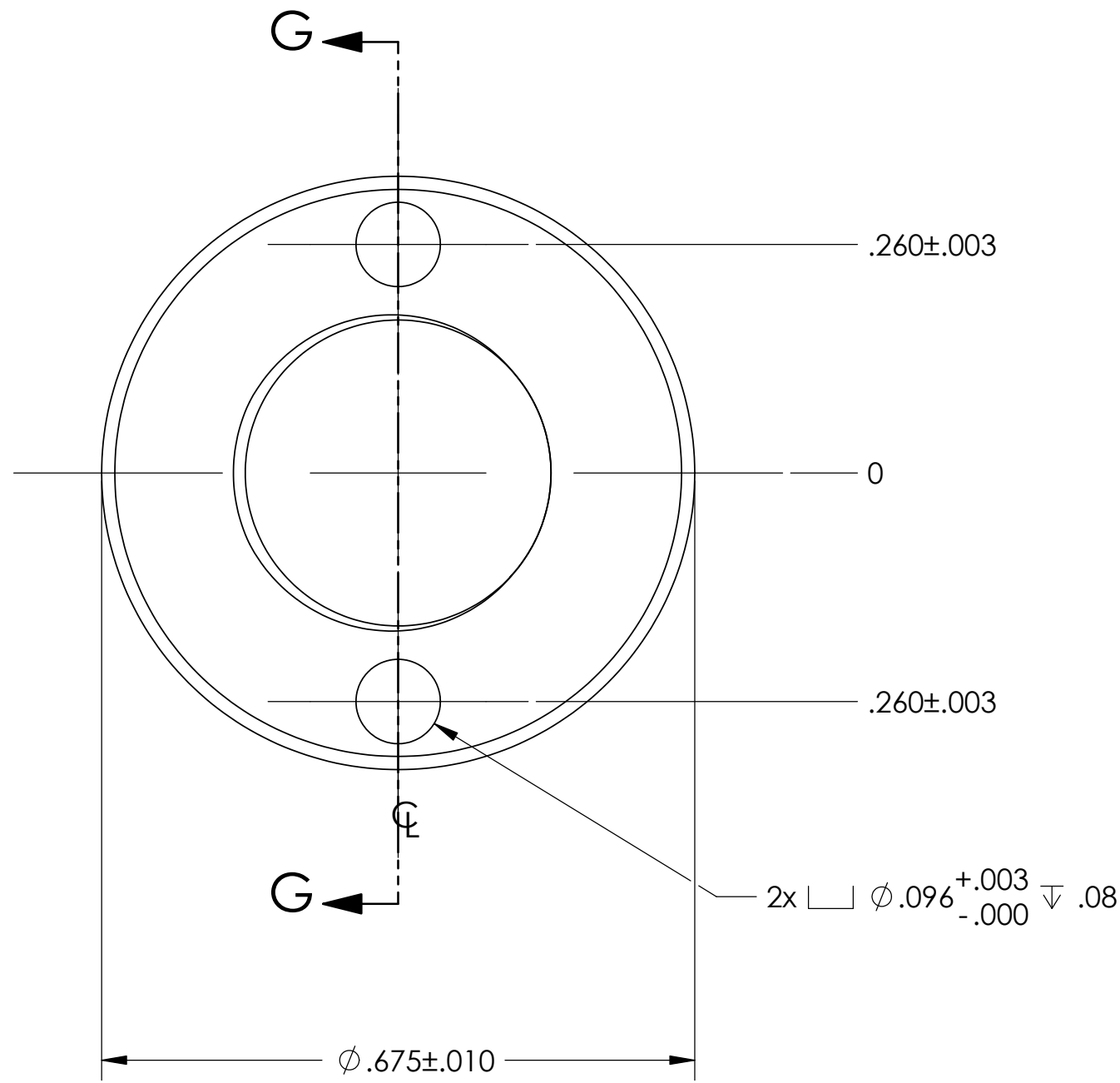
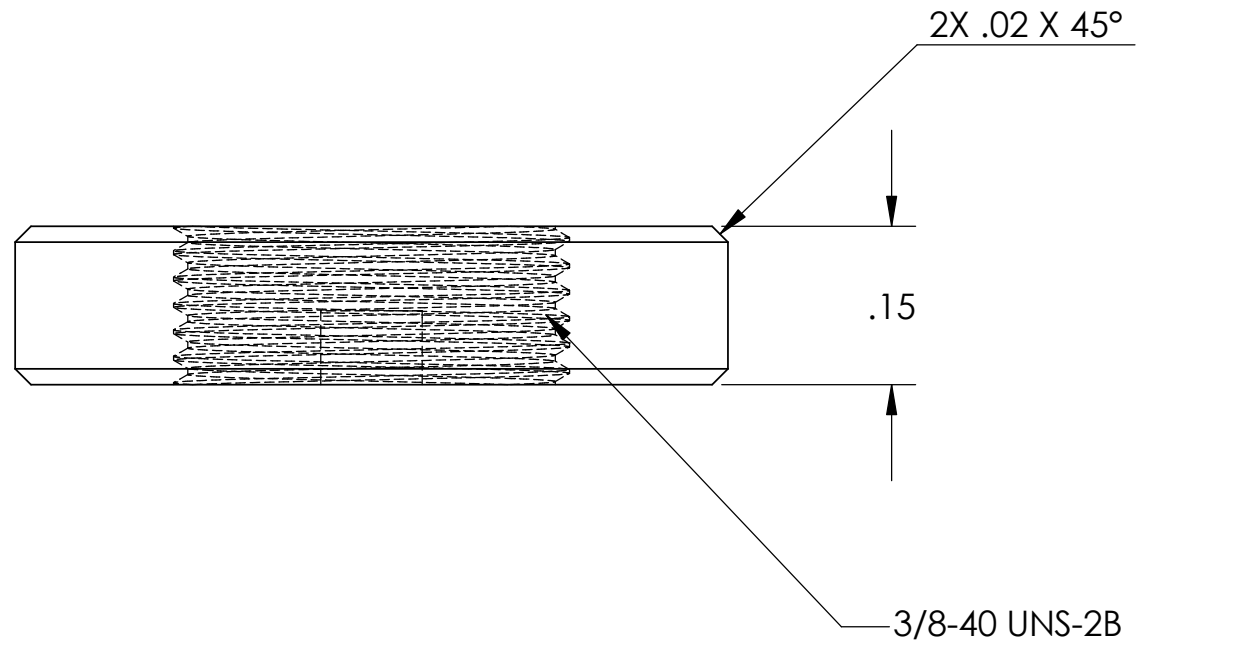


ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
4	1002131-003	Watlow heater mount	PEEK	2

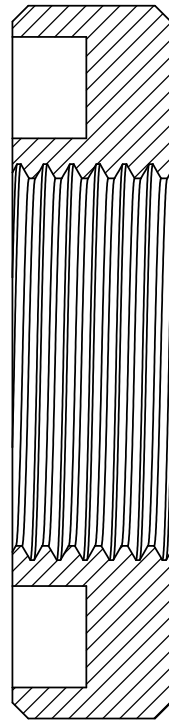
BILL OF MATERIALS				last updated on: Thursday, February 23, 2006 10:39:31 AM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		2 PLACE DIM $\pm .01$	3 PLACE DIM $\pm .005$	4 PLACE DIM $\pm .0005$	ANGLES $\pm 1^\circ$
Shop Foreman		1. DIMENSIONS ARE IN INCHES		ENGINEER Jason Feldman 831-775-1837	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING		CHECKED	
NEXT ASSY Description		3. REMOVE BURRS & SHARP EDGES .010 MAX		PROJECT NUMBER 701312.00	
NEXT ASSY Number		4. MACHINED FILLET RADII .000 TO .015		PROJECT ESP 2G	
DO NOT SCALE DRAWING		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		SIZE C	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .003 INCHES FOR SINGLE SURFACE.		DWG. NO. 1002131	
		7. SURFACE FINISH TO BE 32 MICRON UNLESS OTHERWISE SPECIFIED		REV. H	
				CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)	
				SHEET 4 OF 6	

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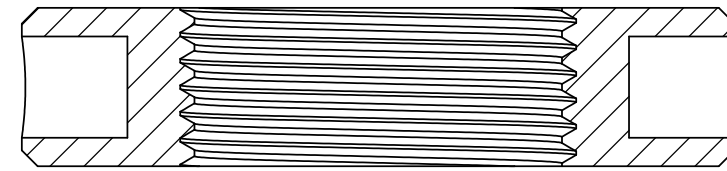
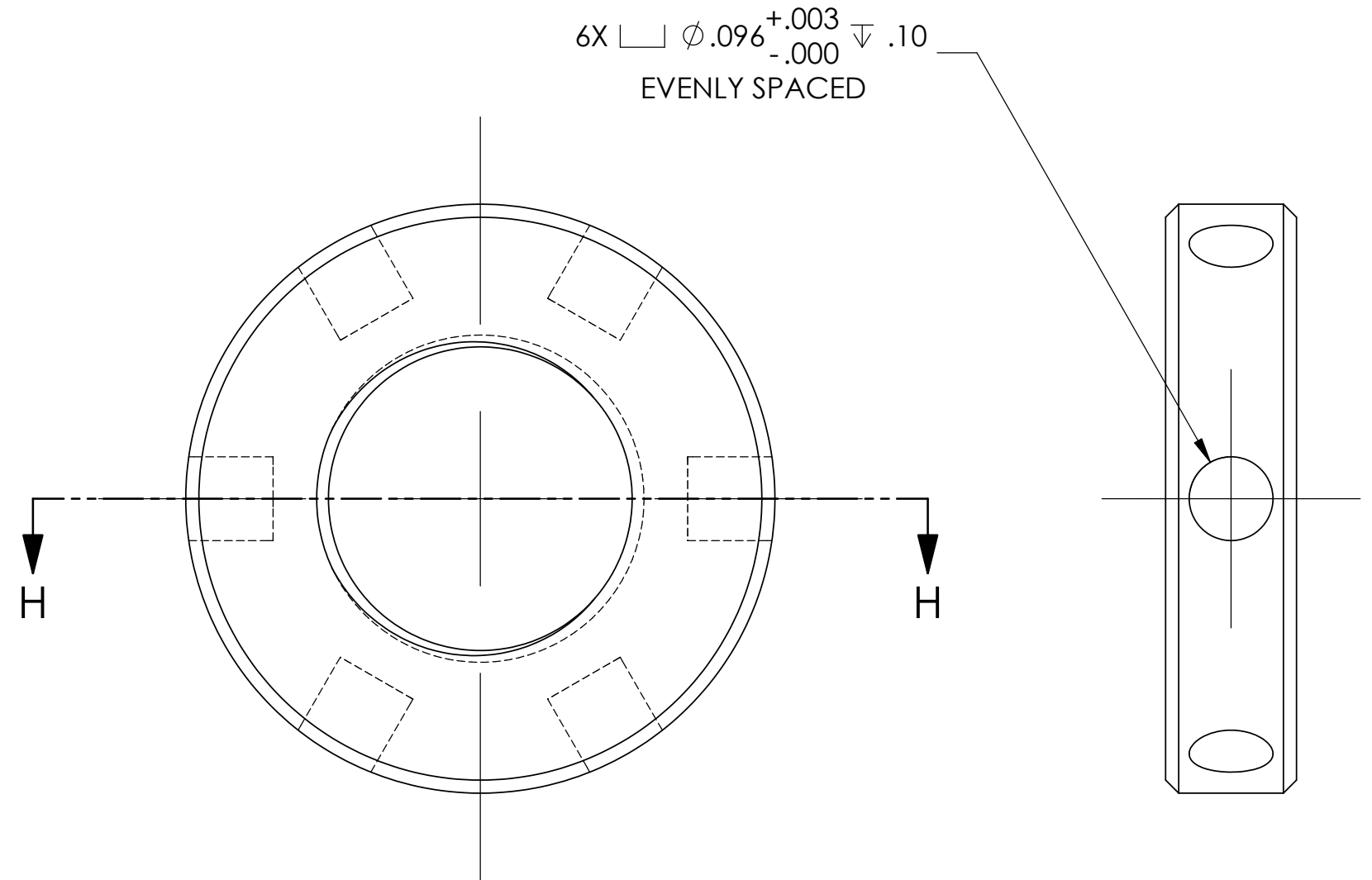
3/8 - 40 nut (lower)
1002131-004



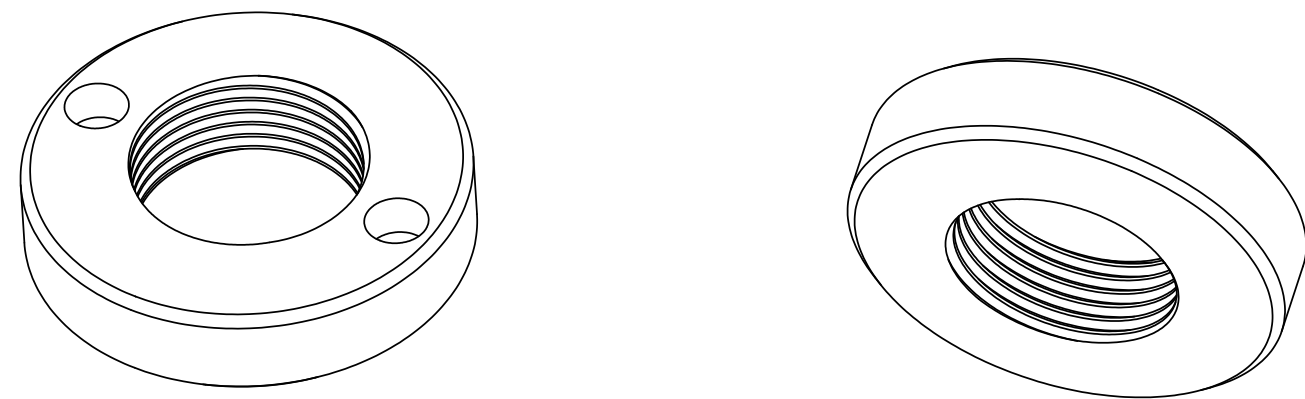
SECTION G-G



3/8 - 40 nut (upper)
1002131-005



SECTION H-H



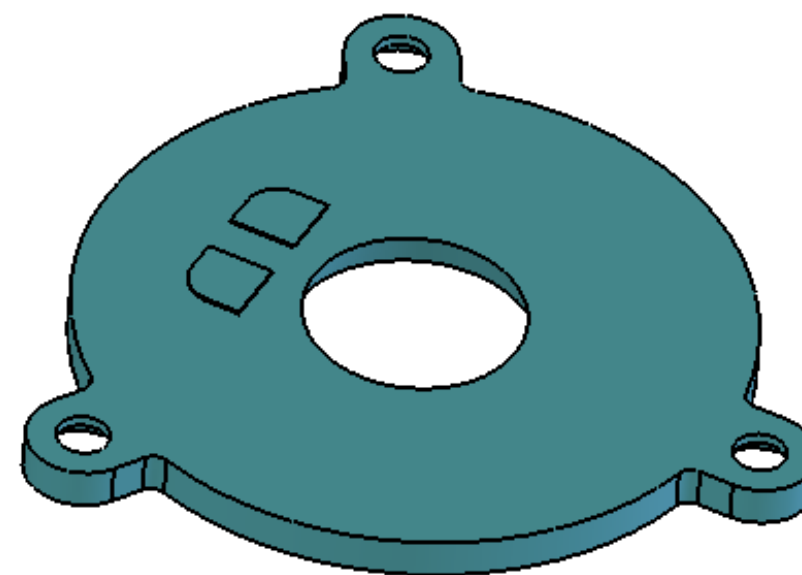
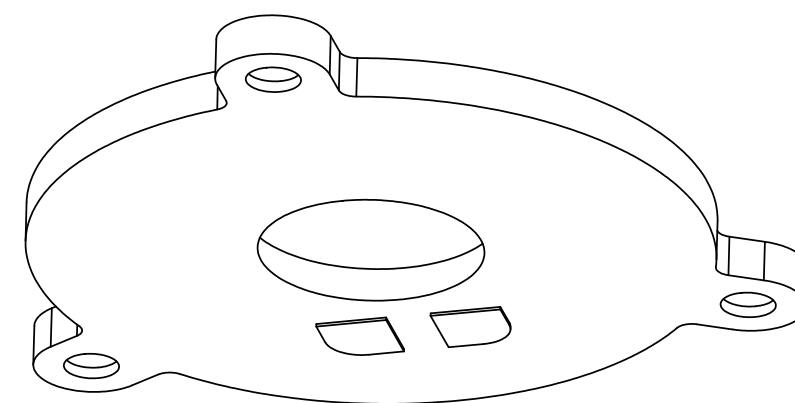
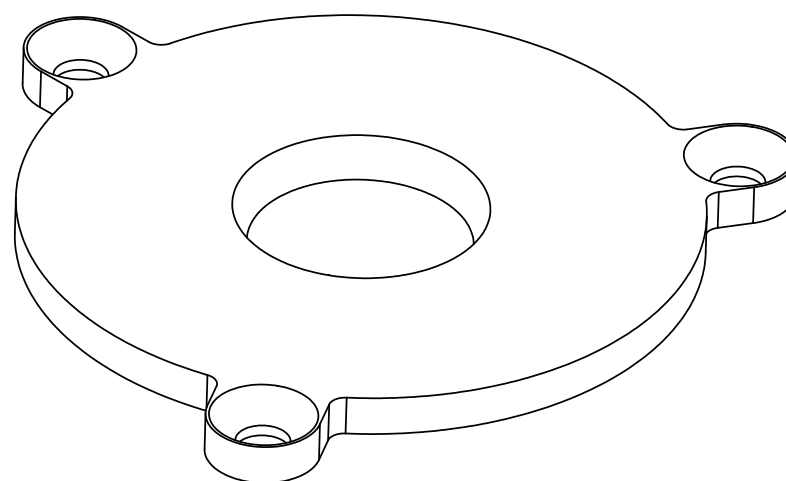
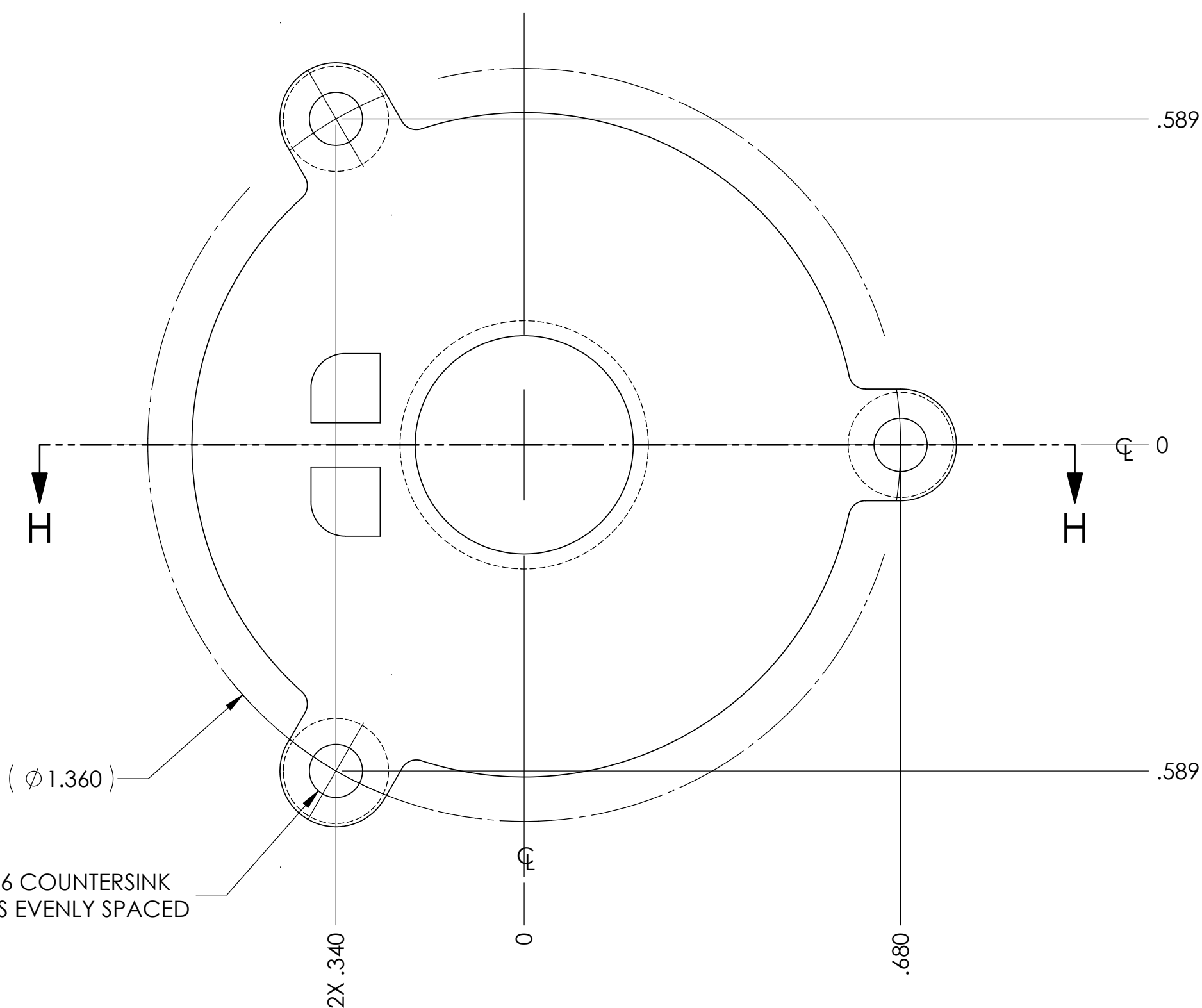
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
4	1002131-004	3/8 - 40 nut (lower)	17-4 Stainless Steel	2
5	1002131-005	3/8 - 40 nut (upper)	17-4 Stainless Steel	2

BILL OF MATERIALS				last updated on: Thursday, February 23, 2006 10:39:31 AM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		2 PLACE DIM ±.01	3 PLACE DIM ±.005	4 PLACE DIM ±.0005	ANGLES ±1°
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .000 TO .015 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005			
Engineer		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .003 INCHES FOR SINGLE SURFACE. 7. SURFACE FINISH TO BE 32 MICRON UNLESS OTHERWISE SPECIFIED			
NEXT ASSY Description	NEXT ASSY Number	DO NOT SCALE DRAWING		PROJECT NUMBER 701312.00	
				PROJECT ESP 2G	
				HEATER - MOUNT	
				SIZE C	DWG. NO. 1002131
				REV. G	
				CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)	
				SHEET 5 OF 6	

WATLOW HEATER (MODIFICATIONS)



SECTION H-H



BILL OF MATERIALS				last updated on: Thursday, February 23, 2016 10:39:31 AM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS _____ DATE _____ ENGINEER Jason Feldman 831-775-1837	
Inspector		2 PLACE DIM ±.01	3 PLACE DIM ±.005	4 PLACE DIM ±.0005	Monterey Bay Aquarium Research Institute  7700 Sandholdt Road Moss Landing, CA 95039
Shop Foreman		ANGLES ±1°			
Engineer		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .000 TO .015			
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005			
NEXT ASSY Description	NEXT ASSY Number	6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .003 INCHES FOR SINGLE SURFACE.			PROJECT NUMBER 701312.00
		7. SURFACE FINISH TO BE 32 MICRON UNLESS OTHERWISE SPECIFIED			PROJECT ESP 2G
DO NOT SCALE DRAWING		CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)			HEATER - MOUNT SIZE C DWG. NO. 1002131 REV. G