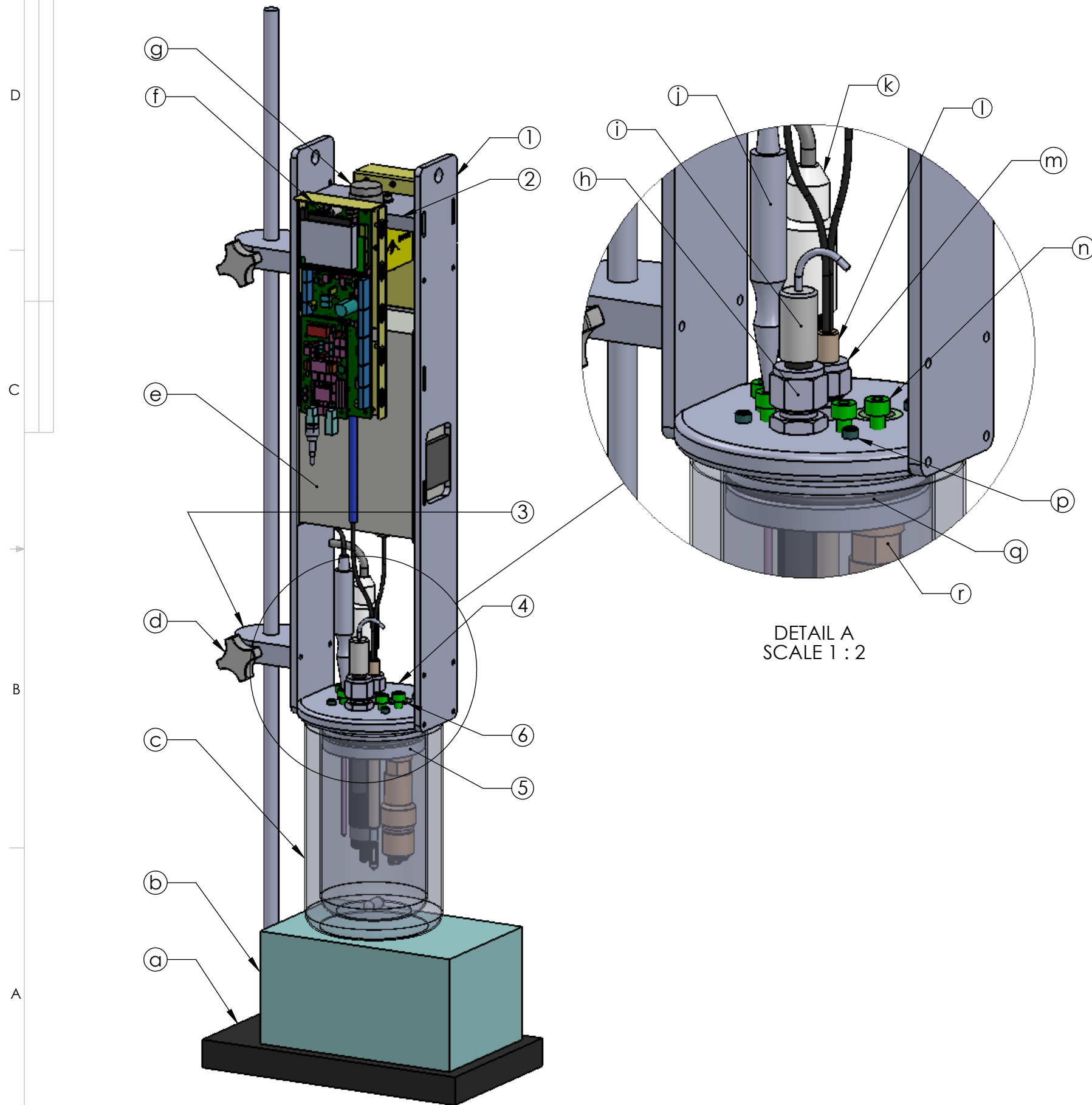
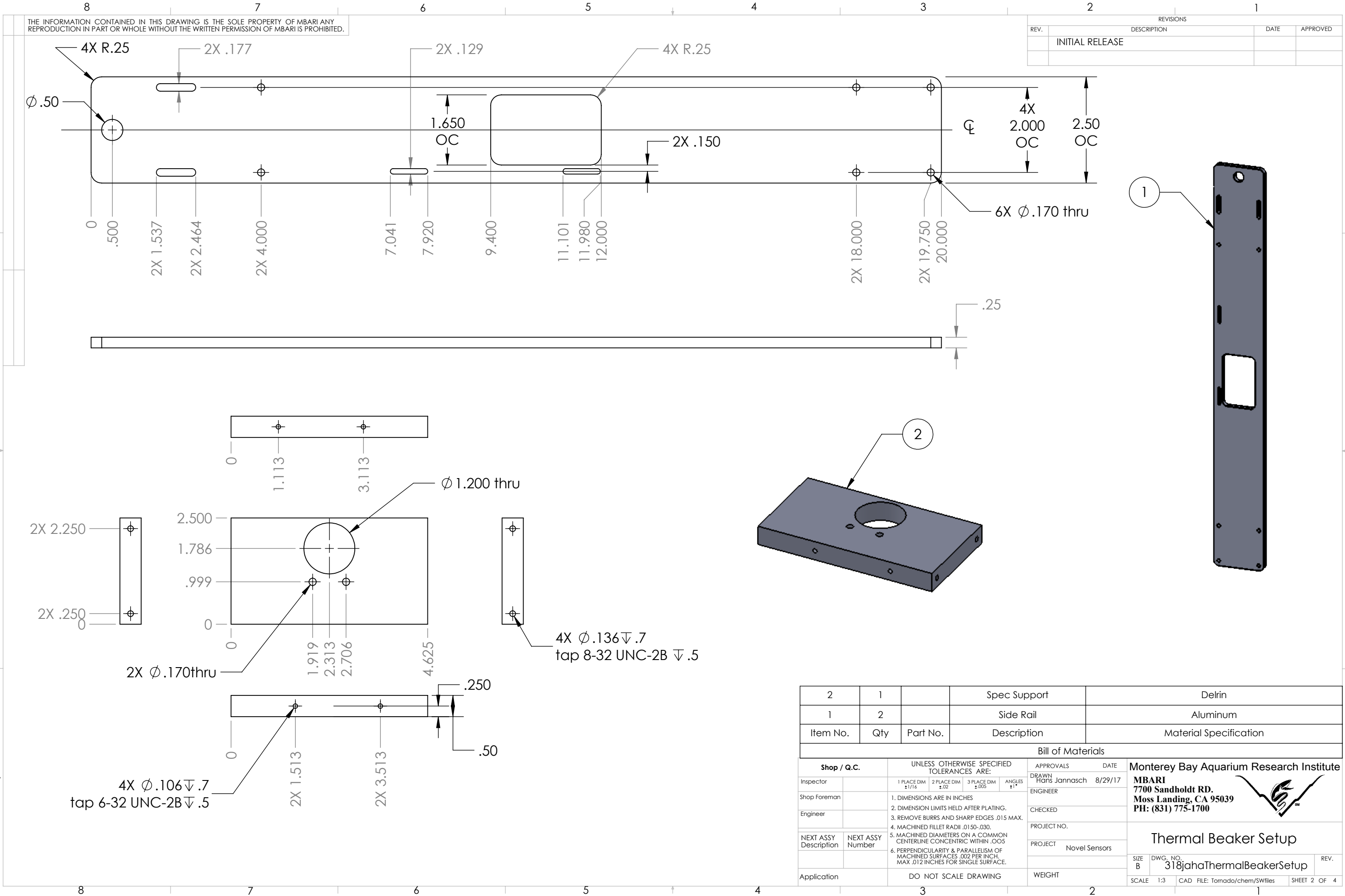


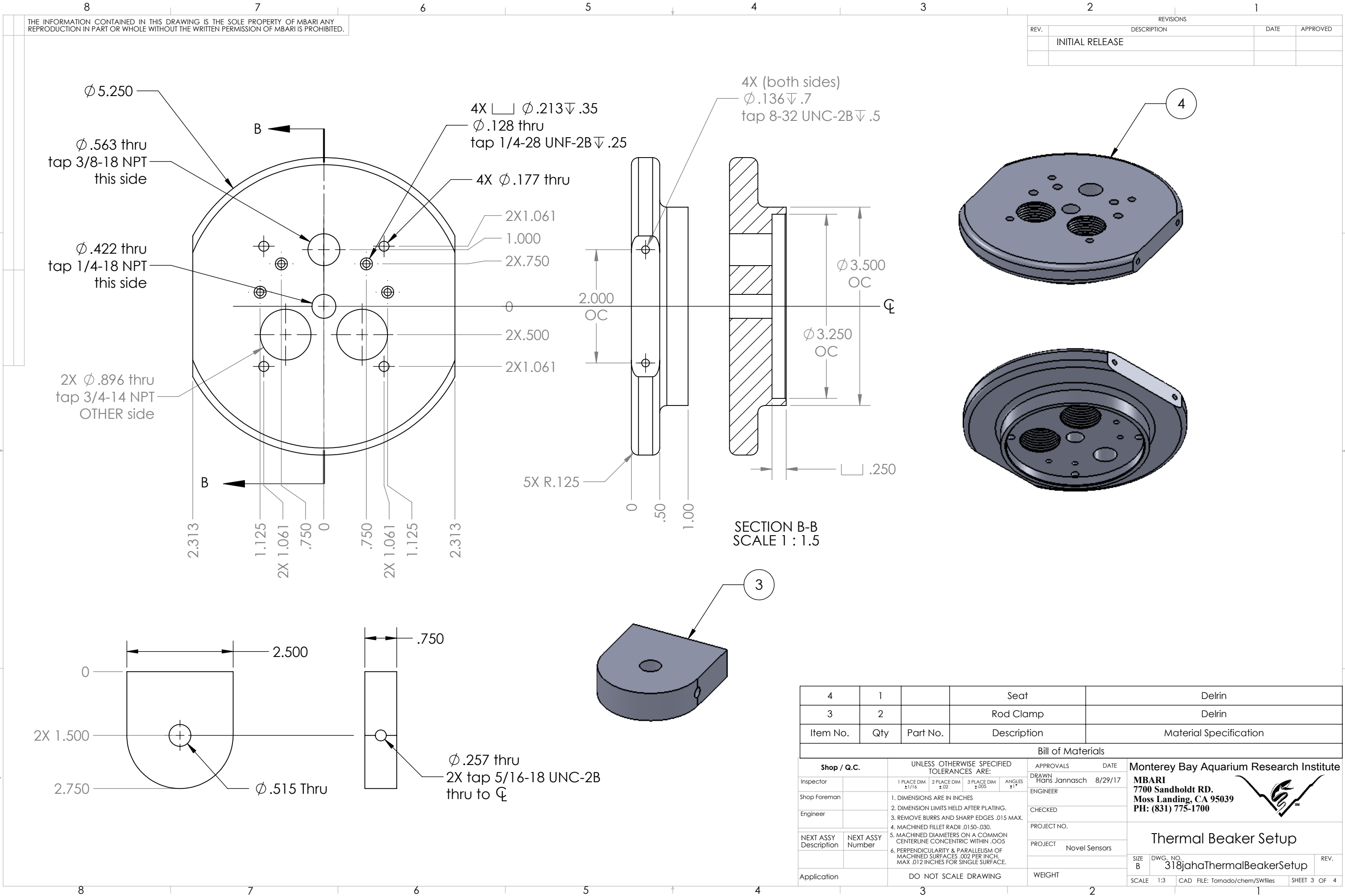


r	1 or 2		DuraFET stem	Per APEX design
q	1		O-ring (2-236)	McMaster 1288N196
p	4		Sealing screws (#8-32 x 1.5")	Socket head McMaster 92196A178
n	4		1/4-28 Nuts and ferrules	Upchurch (1/8" or 1/16")
m	1		C-tech fitting	Swagelok SS-600-1-4 (bored thru)
l	1		C-teck probe (4 cm path)	See 319jaha C-tech probe for Yui
k	1 or 2		DuraFET III	w/Variopin Connector
j	1		Temperature Probe	1/8" USB
i	1		ISE	Fisher Scientific
h	1		ISE fitting	Swagelok SS-12MO-1-6 (bored thru)
g	1		Spectrometer	Zeiss UV+Visible
f	1 or 2		MSC	on APEX chassis
e	1		Visible Fiber-light Source	UV+Visible
d	2		Scew Knob	McMaster 4384K510
c	1		500 ml Therna beaker	Glass
b	1		Magnetic stirrer	<4" from mag center to rear
a	1		Lab ring stand	w/ 1/2" rod
Item No.	Qty	Part No.	Description	Material Specification
Other Parts				

6	2		DF Stem Adapter	Delrin
5	1		Seat Seal	Delrin
4	1		Seat	Delrin
3	2		Rod Clamp	Delrin
2	1		Spec Support	Delrin
1	2		Side Rail	Aluminum
Item No.	Qty	Part No.	Description	Material Specification

Bill of Materials											
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN Hans Jannasch		8/29/17			
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					
NEXT ASSY Description	NEXT ASSY Number	DO NOT SCALE DRAWING				PROJECT NO.				Thermal Beaker Setup	
						PROJECT		Novel Sensors			
Application						WEIGHT				SIZE B DWG. NO. 318jahaThermalBeakerSetup REV.	
										SCALE 1:3 CAD FILE: Tomado/chem/SWfiles SHEET 1 OF 4	





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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		

4	1		Seat	Delrin		
3	2		Rod Clamp	Delrin		
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 8/29/17
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.		
		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		WEIGHT		
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.		SCALE 1:3		
Application	DO NOT SCALE DRAWING		WIGHT			
Monterey Bay Aquarium Research Institute					REV.	
MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700					318jahaThermalBeakerSetup	
Thermal Beaker Setup						
SCALE 1:3					CAD FILE: Tornado/chem/SWfiles	
SHEET 3 OF 4						

