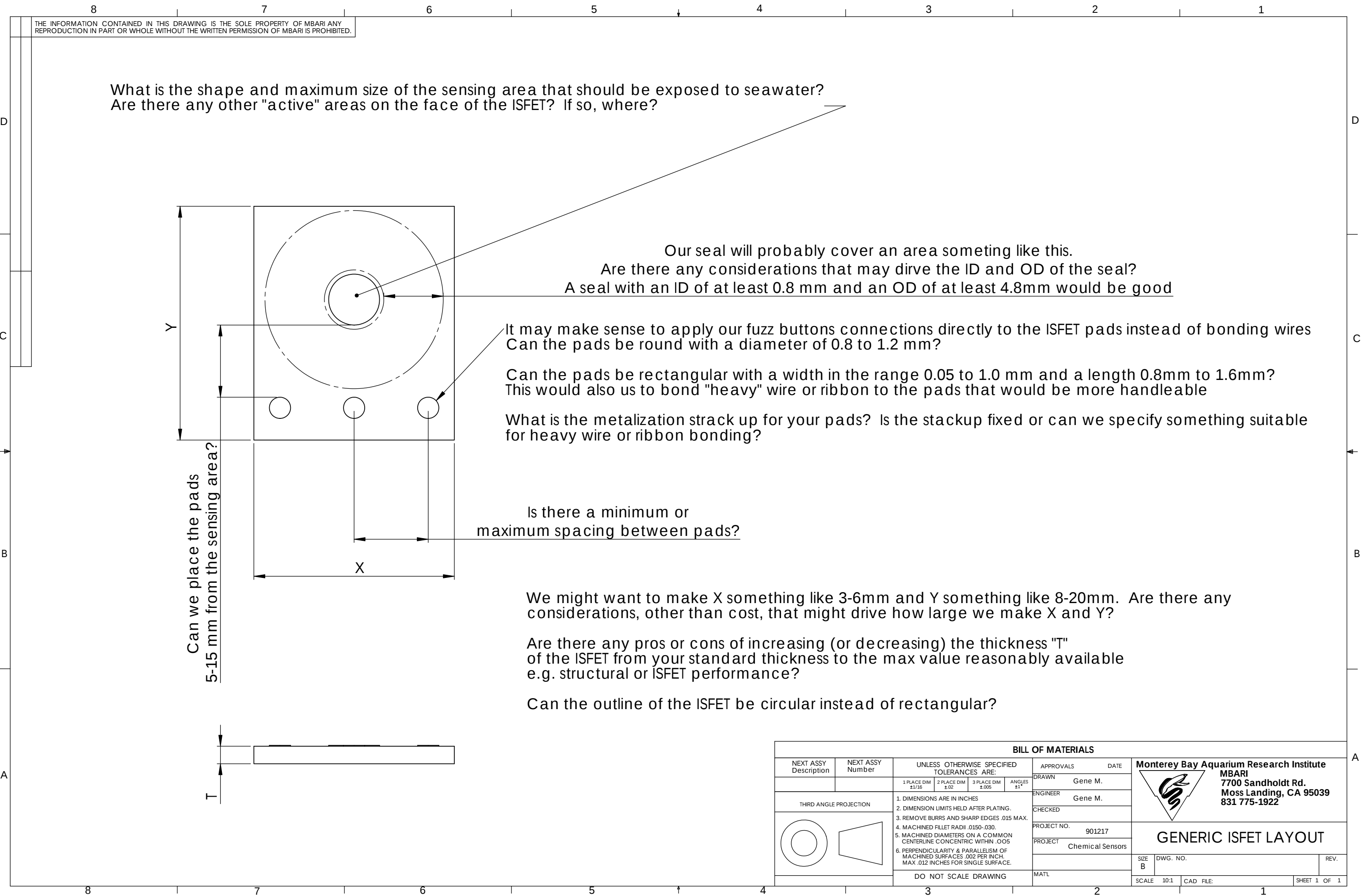




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What is the shape and maximum size of the sensing area that should be exposed to seawater?
Are there any other "active" areas on the face of the ISFET? If so, where?

Our seal will probably cover an area something like this.
Are there any considerations that may drive the ID and OD of the seal?
A seal with an ID of at least 0.8 mm and an OD of at least 4.8mm would be good

It may make sense to apply our fuzz buttons connections directly to the ISFET pads instead of bonding wires
Can the pads be round with a diameter of 0.8 to 1.2 mm?

Can the pads be rectangular with a width in the range 0.05 to 1.0 mm and a length 0.8mm to 1.6mm?
This would also us to bond "heavy" wire or ribbon to the pads that would be more handleable

What is the metalization strack up for your pads? Is the stackup fixed or can we specify something suitable for heavy wire or ribbon bonding?

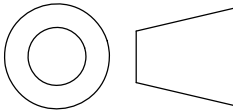
Is there a minimum or maximum spacing between pads?

We might want to make X something like 3-6mm and Y something like 8-20mm. Are there any considerations, other than cost, that might drive how large we make X and Y?

Are there any pros or cons of increasing (or decreasing) the thickness "T" of the ISFET from your standard thickness to the max value reasonably available e.g. structural or ISFET performance?

Can the outline of the ISFET be circular instead of rectangular?

Can we place the pads 5-15 mm from the sensing area?

BILL OF MATERIALS												
NEXT ASSY Description	NEXT ASSY Number	UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt Rd. Moss Landing, CA 95039 831 775-1922  GENERIC ISFET LAYOUT		
		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN	Gene M.					
THIRD ANGLE PROJECTION		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	Gene M.					
						CHECKED						
						PROJECT NO.		901217				
						PROJECT		Chemical Sensors				
		DO NOT SCALE DRAWING				MATL		SIZE B		DWG. NO.	REV.	
								SCALE 10:1		CAD FILE:		SHEET 1 OF 1