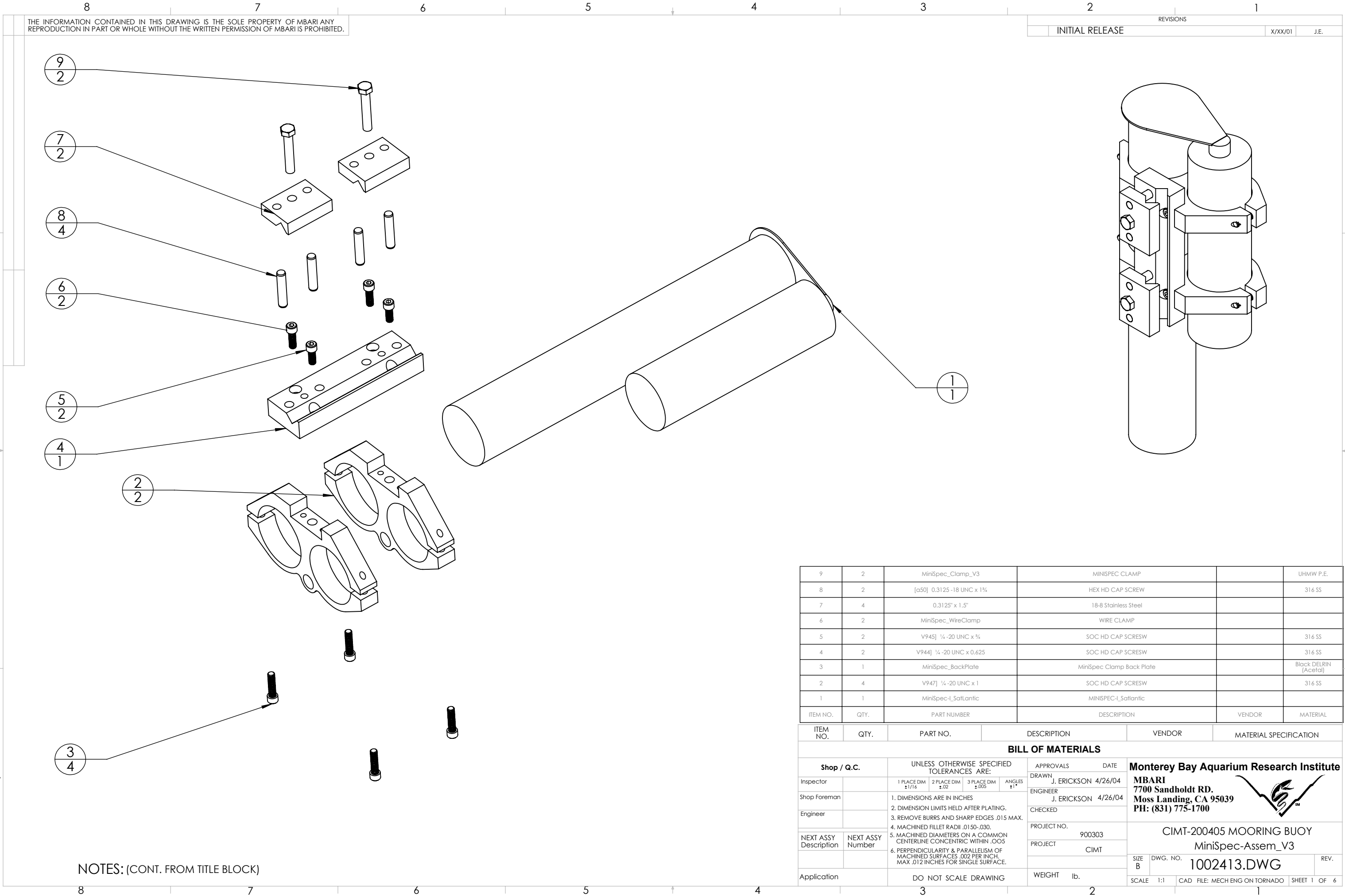




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REVISIONS		
INITIAL RELEASE	X/XX/01	J.E.

9	2	MiniSpec_Clamp_V3	MINISPEC CLAMP		UHMW P.E.
8	2	[a50] 0.3125 -18 UNC x 1 1/4	HEX HD CAP SCREW		316 SS
7	4	0.3125" x 1.5"	18-8 Stainless Steel		
6	2	MiniSpec_WireClamp	WIRE CLAMP		
5	2	V945] 1/4 -20 UNC x 3/4	SOC HD CAP SCRESW		316 SS
4	2	V944] 1/4 -20 UNC x 0.625	SOC HD CAP SCRESW		316 SS
3	1	MiniSpec_BackPlate	MiniSpec Clamp Back Plate		Black DELRIN (Acetal)
2	4	V947] 1/4 -20 UNC x 1	SOC HD CAP SCRESW		316 SS
1	1	MiniSpec-L_SatLantic	MINISPEC-L_SatLantic		
ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	VENDOR	MATERIAL

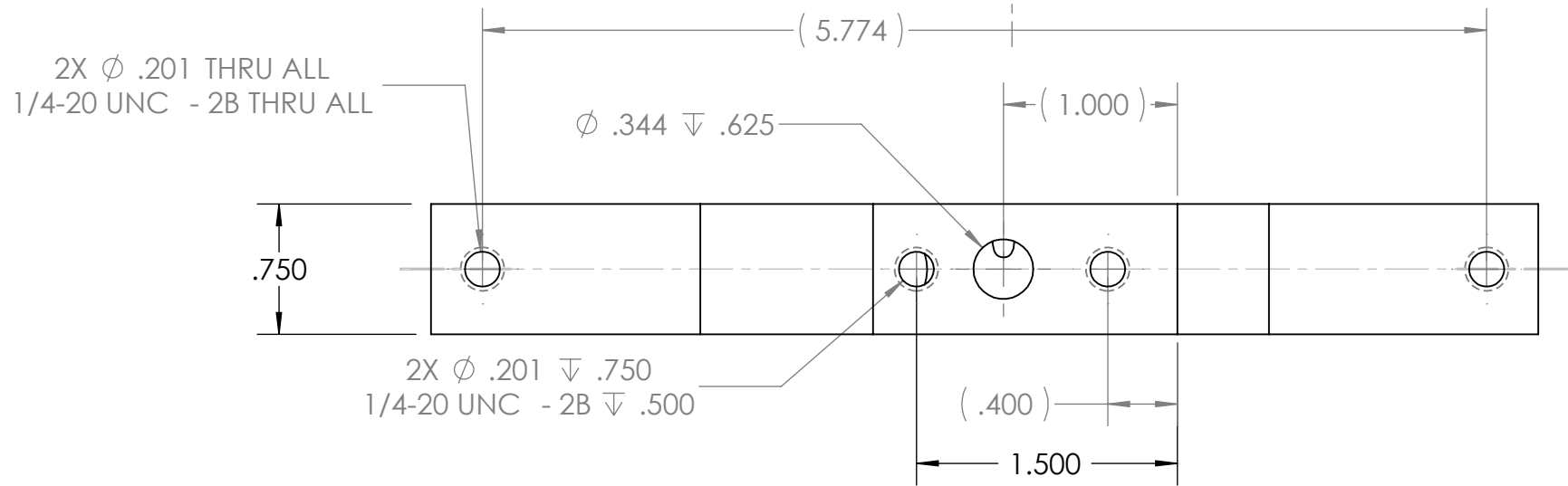
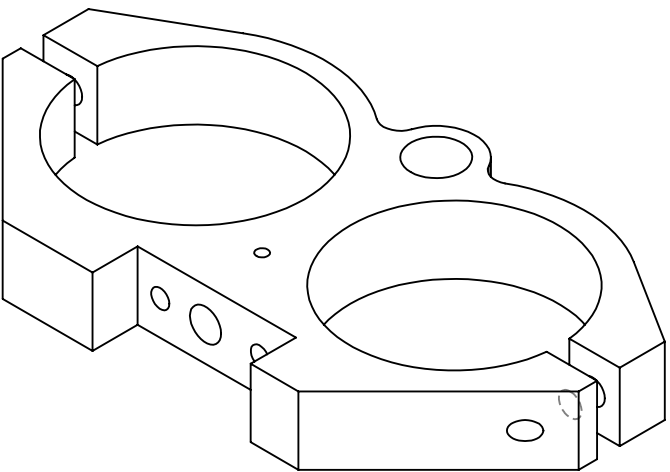
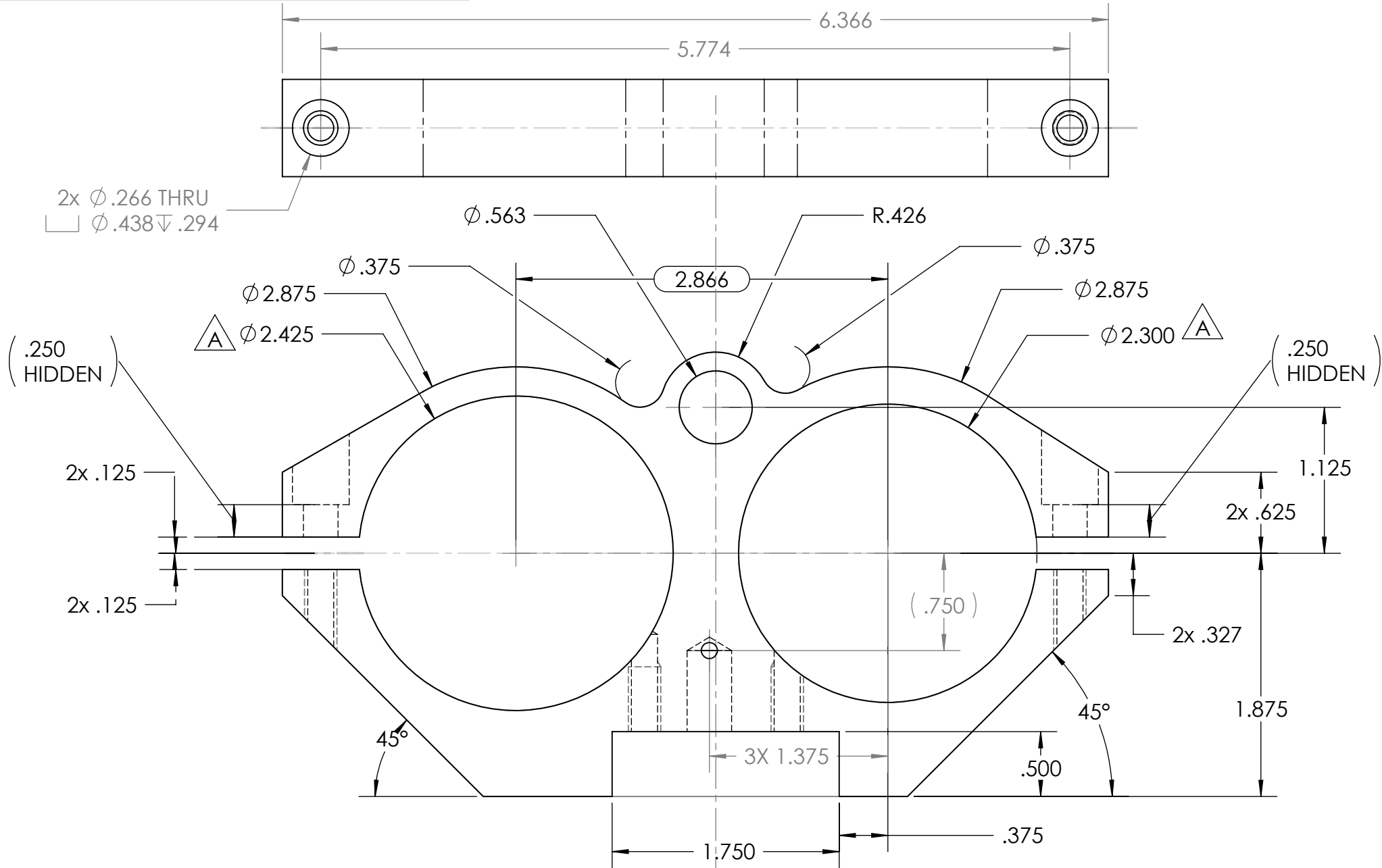
ITEM NO.	QTY.	PART NO.	DESCRIPTION	VENDOR	MATERIAL SPECIFICATION
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD 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 J. ERICKSON 4/26/04	
Engineer				ENGINEER J. ERICKSON 4/26/04	
				CHECKED	
NEXT ASSY Description	NEXT ASSY Number			PROJECT NO.	
				900303	
				PROJECT	CIMT
Application		DO NOT SCALE DRAWING		WEIGHT	lb.
				SCALE 1:1	CAD FILE: MECH ENG ON TORNADO
				SHEET 1	OF 6

Monterey Bay Aquarium Research Institute	
MBARI	
7700 Sandholdt RD.	
Moss Landing, CA 95039	
PH: (831) 775-1700	
CIMT-200405 MOORING BUOY	
MiniSpec-Assem_V3	
SIZE B	DWG. NO.
	1002413.DWG
	REV.

NOTES: (CONT. FROM TITLE BLOCK)

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.
A	CHG. BORE Ø'S FRM 2.375 & 2.250 +.050 EACH	10/15/08	J.E.

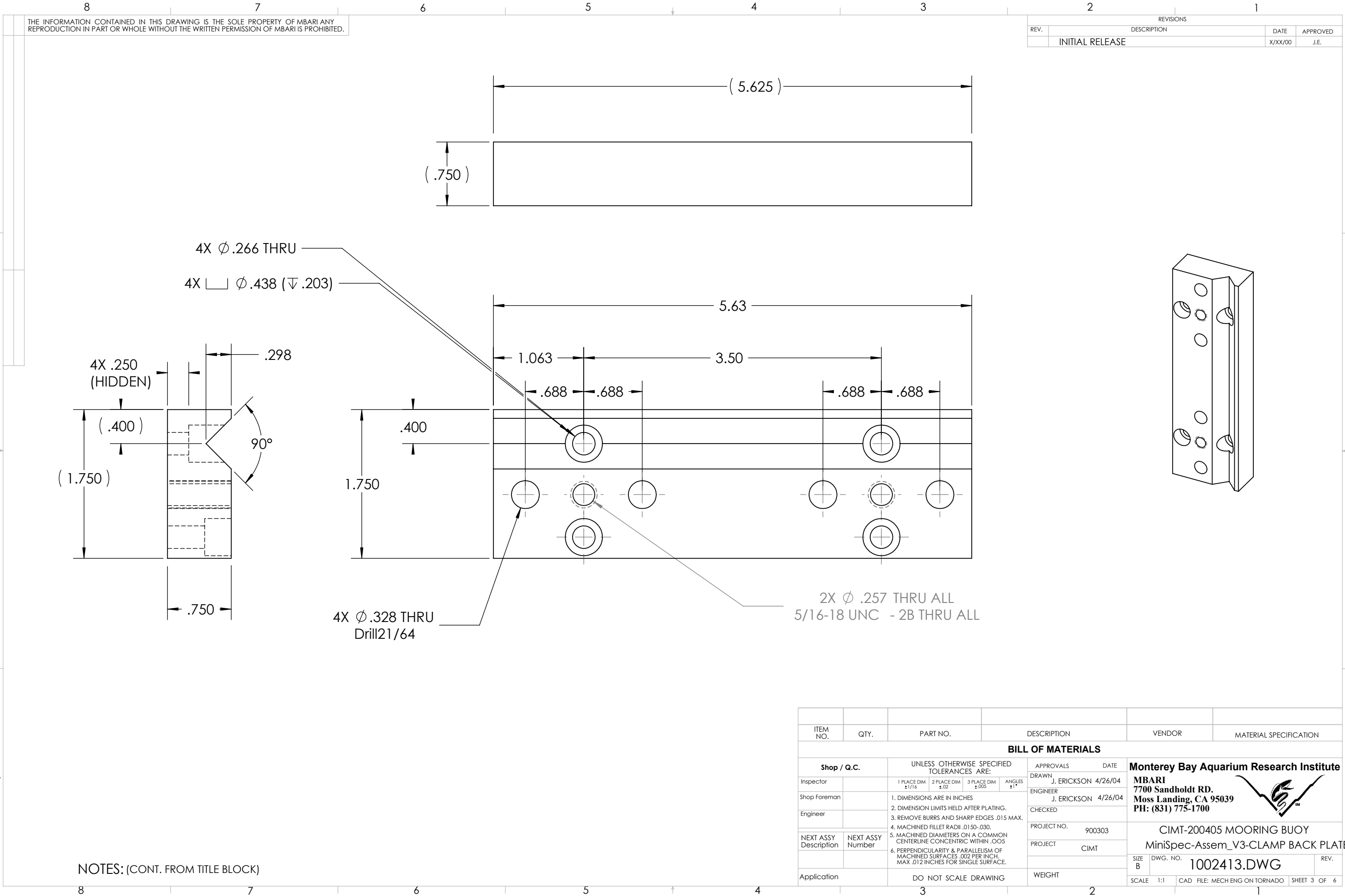


NOTES: (CONT. FROM TITLE BLOCK)

	1		MINISPEC CLAMP		UHMW P.E.
ITEM NO.	QTY.	Part_Number	DESCRIPTION	VENDOR	MATERIAL

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°	Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 
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.				
Engineer		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.				
NEXT ASSY Description	NEXT ASSY Number	PROJECT NO. 900303 PROJECT CIMT				
Application		DO NOT SCALE DRAWING			WEIGHT	

SIZE B DWG. NO. 1002413.DWG		REV. A
SCALE 1:4	CAD FILE: MECH ENG ON TORNADO	SHEET 2 OF 6



NOTES: (CONT. FROM TITLE BLOCK)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	VENDOR	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°
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	J. ERICKSON 4/26/04
Engineer				ENGINEER	J. ERICKSON 4/26/04
				CHECKED	
NEXT ASSY Description	NEXT ASSY Number			PROJECT NO.	900303
				PROJECT	CIMT
Application		DO NOT SCALE DRAWING		WEIGHT	
				SIZE B	DWG. NO. 1002413.DWG
				SCALE 1:1	CAD FILE: MECH ENG ON TORNADO SHEET 3 OF 6

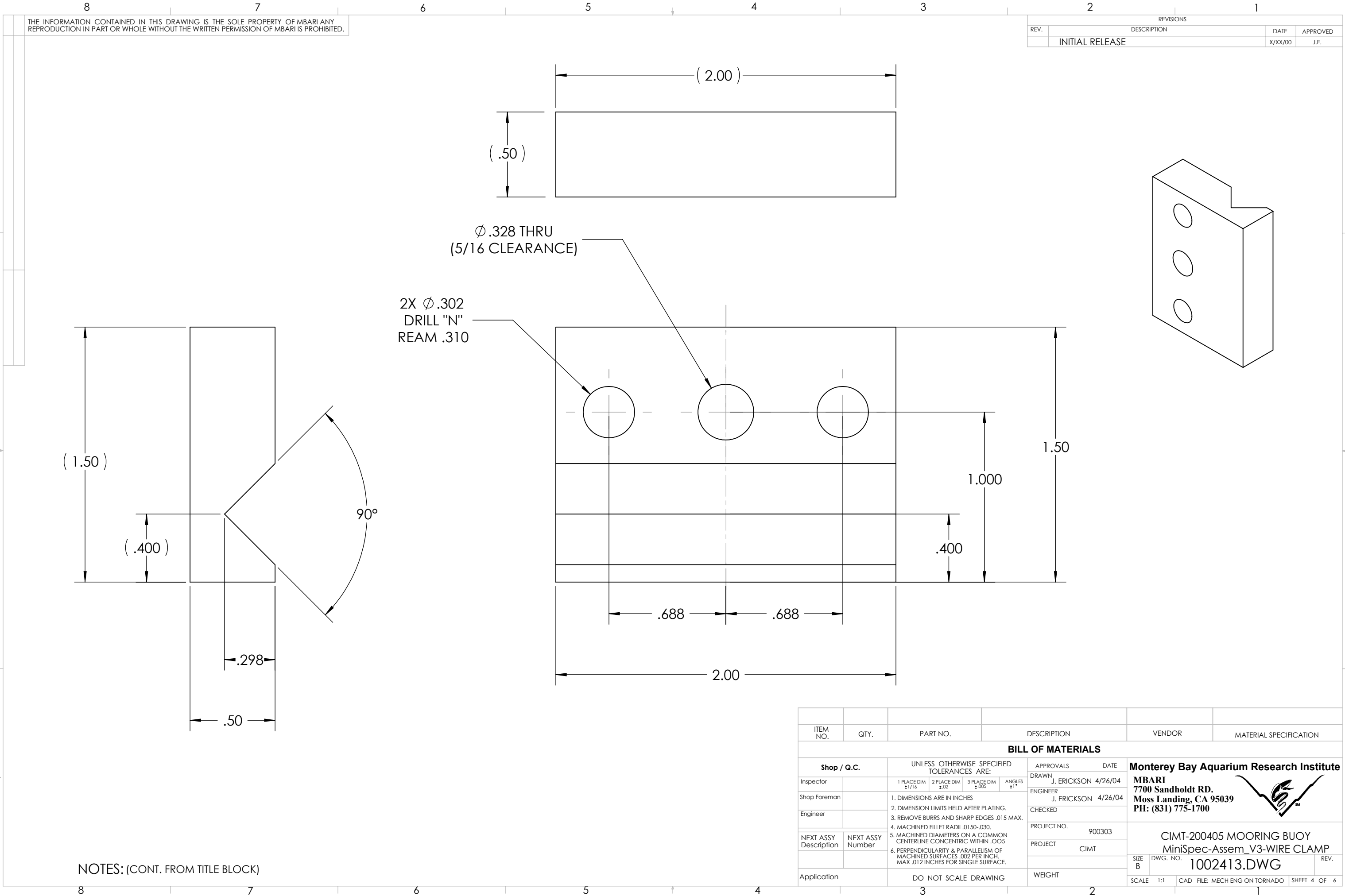
Monterey Bay Aquarium Research Institute

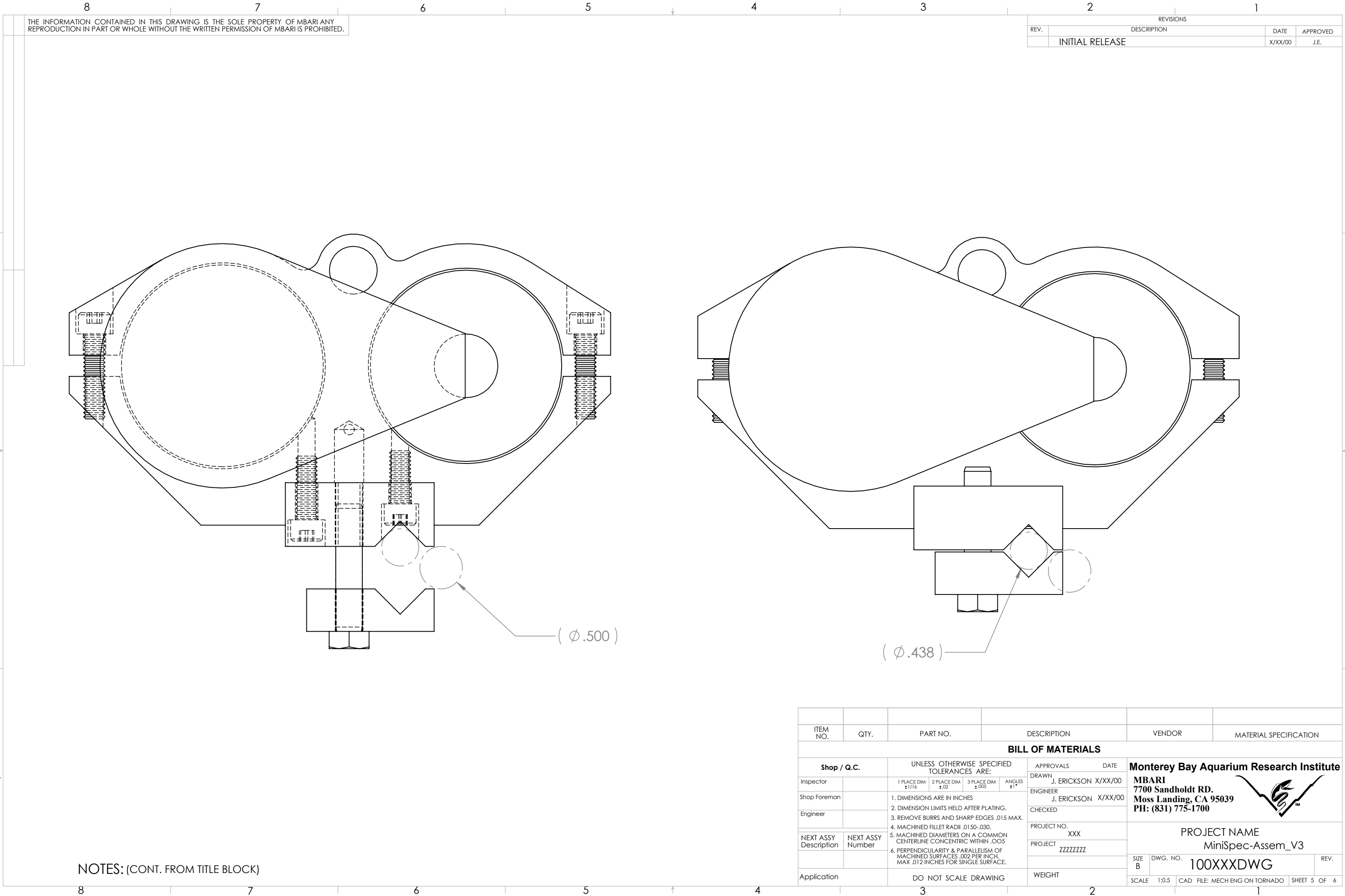
MBARI
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Moss Landing, CA 95039
PH: (831) 775-1700



CIMT-200405 MOORING BUOY

MiniSpec-Assem_V3-CLAMP BACK PLAT





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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.

NOTES: (CONT. FROM TITLE BLOCK)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	VENDOR	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	DRAWN J. ERICKSON	X/XX/00
Shop Foreman		3 PLACE DIM ±.005	ANGLES ±1°	ENGINEER J. ERICKSON	X/XX/00
Engineer		1. DIMENSIONS ARE IN INCHES		CHECKED	
NEXT ASSY Description	NEXT ASSY Number	2. DIMENSION LIMITS HELD AFTER PLATING.		PROJECT NO. XXX	PROJECT NAME MiniSpec-Assem_v3
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		PROJECT ZZZZZZZZ	
		4. MACHINED FILLET RADII .0150-.030.		WEIGHT	
		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			

Monterey Bay Aquarium Research Institute					
MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700					
SIZE B	DWG. NO.	100XXXDWG		REV.	
SCALE	1:0.5	CAD FILE: MECH ENG ON TORNADO	SHEET 5	OF	6

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



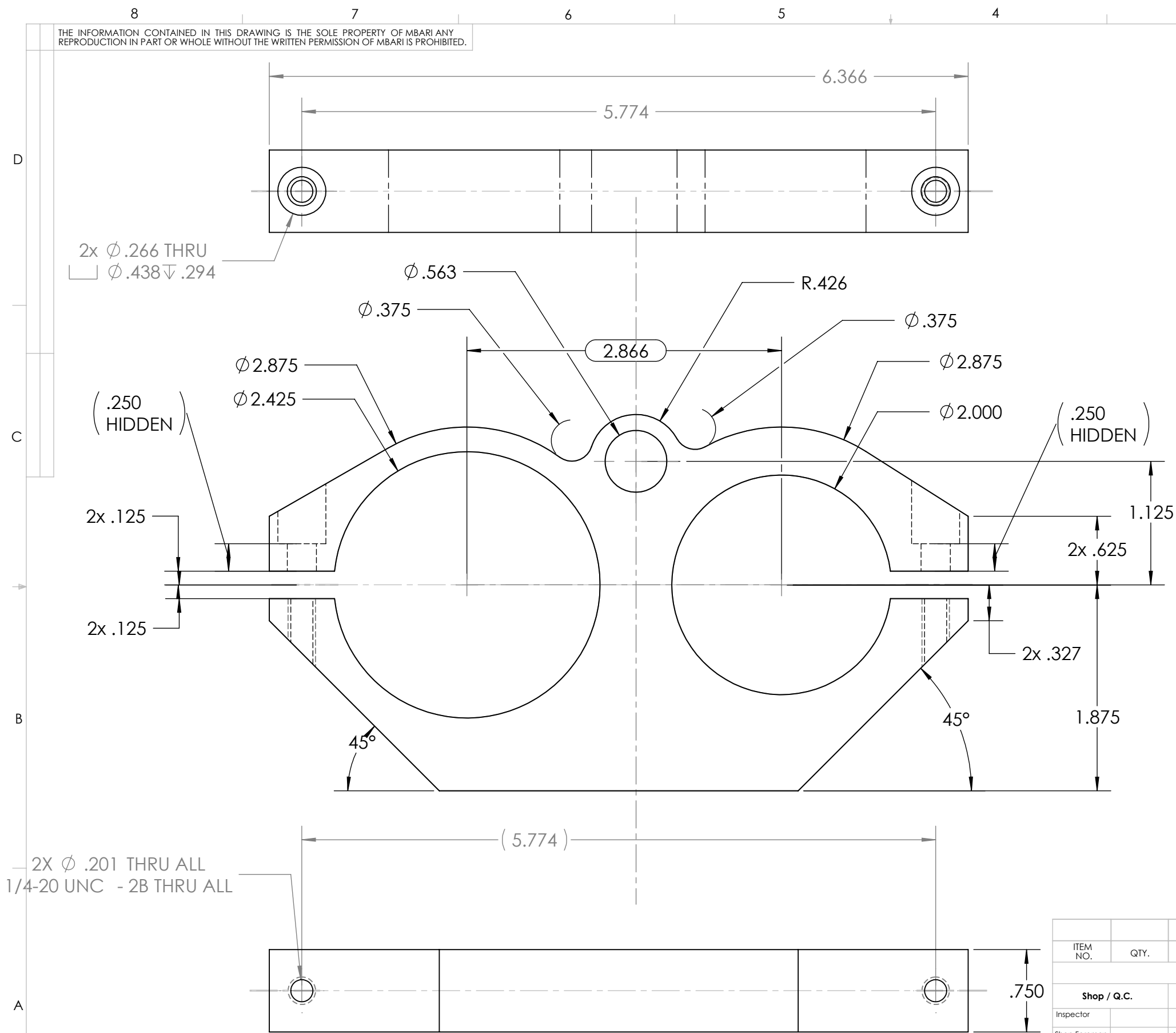
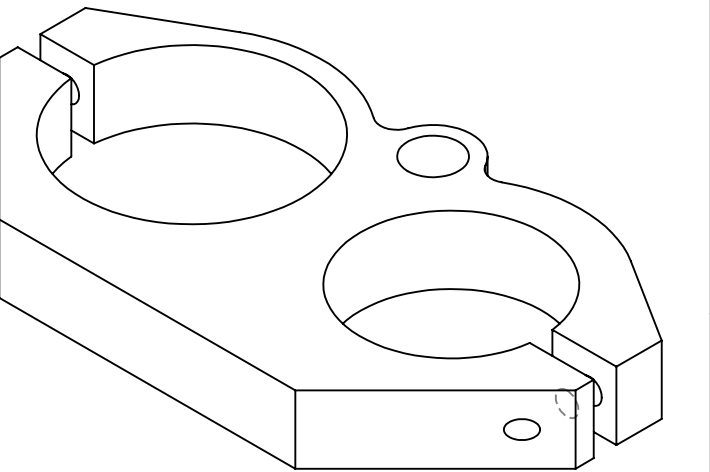
PROJECT NAME
MiniSpec-Assem_V3

SIZE B DWG. NO. 100XXXDWG REV.

SHEET 5 OF 6

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.



— 2X ϕ .201 THRU ALL
1/4-20 UNC - 2B THRU ALL

NOTES: (CONT. FROM TITLE BLOCK)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	VENDOR	MATERIAL SPECIFICATION
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		Monterey Bay Aquarium Research Institute 	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°
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					
NEXT ASSY Description	NEXT ASSY Number				
Application		DO NOT SCALE DRAWING		MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700	
		APPROVALS DATE DRAWN J. ERICKSON X/XX/00 ENGINEER J. ERICKSON X/XX/00 CHECKED PROJECT NO. 900303 PROJECT CIMT		CIMT-200405 MOORING BUOY MiniSpec-Assem_V3 - POLE CLAMP	
		WEIGHT		SIZE B DWG. NO. 1002413.DWG REV.	
				SCALE 1:0.5 CAD FILE: MECH ENG ON TORNADO SHEET 6 OF 6	