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INITIAL RELEASE

REVISIONS

X/XX/01

J.E.

9
2

7
2

8
4

6
2

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2

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1

2
2

3
4

1
1

MINISpec_Clamp_V3

MINISPEC CLAMP

UHMW P.E.

[a50] 0.3125-18 UNC x 1 1/4

HEX HD CAP SCREW

316 SS

0.3125" x 1.5"

18-8 Stainless Steel

MinISpec_WireClamp

WIRE CLAMP

V945] 1/4-20 UNC x 1/4

SOC HD CAP SCREWS

316 SS

V944] 1/4-20 UNC x 0.625

SOC HD CAP SCREWS

316 SS

MinISpec_BackPlate

MinISpec Clamp Back Plate

Black DELRIN (Acetal)

V947] 1/4-20 UNC x 1

SOC HD CAP SCREWS

316 SS

MinISpec-1_SatLantic

MINISPEC-1_SatLantic

ITEM NO.

QTY.

PART NUMBER

DESCRIPTION

VENDOR

MATERIAL

BILL OF MATERIALS

Shop / Q.C.

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:

APPROVALS DATE

Inspector

DRAWN

J. ERICKSON 4/26/04

Shop Foreman

ENGINEER

J. ERICKSON 4/26/04

Engineer

CHECKED

PROJECT NO.

900303

NEXT ASSY Description

NEXT ASSY Number

PROJECT

CIMT

Application

DO NOT SCALE DRAWING

WEIGHT

lb.

Monterey Bay Aquarium Research Institute

MBARI

7700 Sandholdt RD.

Moss Landing, CA 95039

PH: (831) 775-1700

CIMT-200405 MOORING BUOY

MiniSpec-Assem

1002413.DWG

REV.

SCALE

1:1

CAD FILE: MECH-ENG-ON-TORNADO

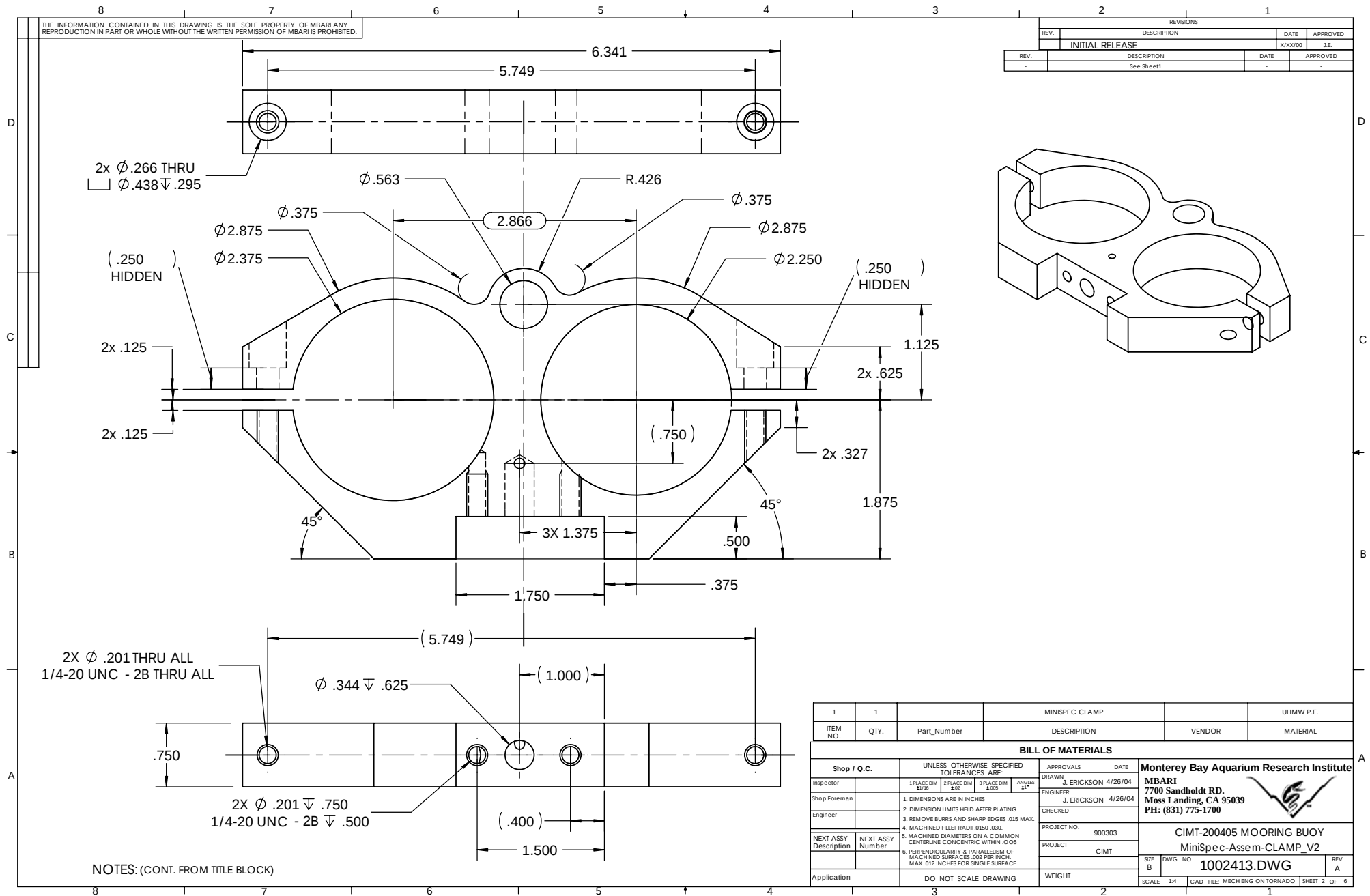
SHEET 1 OF 8

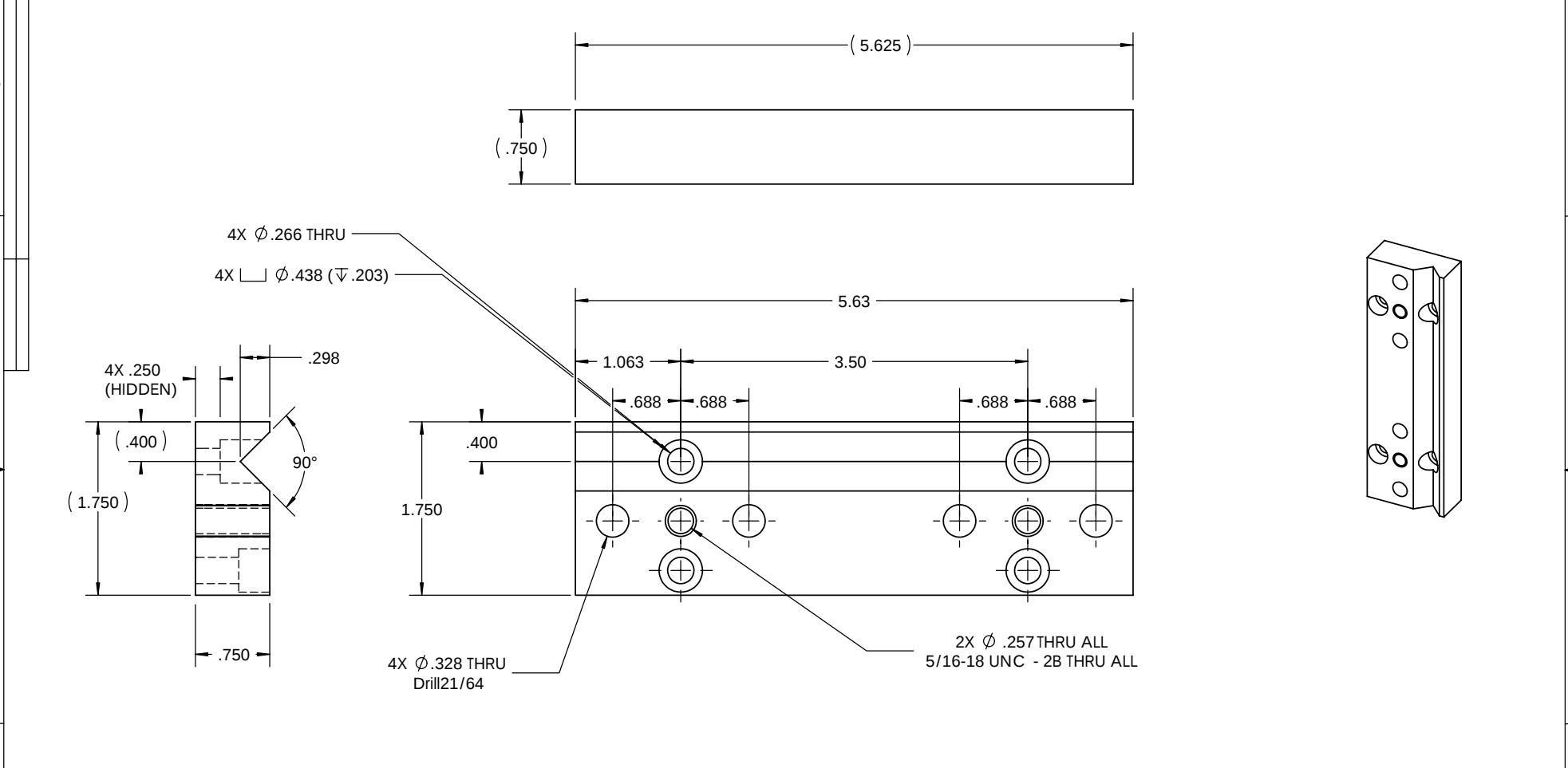
NOTES: (CONT. FROM TITLE BLOCK)

9	2	MiniSpec_Clamp_V3	MINISPEC CLAMP		UHMW PPE
8	2	[a50] 0.3125 -18 UNC x 1/4	HEX HD CAP SCREW		316 SS
7	4	0.3125" x 1.5"	18-B Stainless Steel		
6	2	MiniSpec_WireClamp	WIRE CLAMP		
5	2	V945J 1/4 -20 UNC x 1/4	50C HD CAP SCREWS		316 SS
4	2	V944J 1/4 -20 UNC x 0.625	50C HD CAP SCREWS		316 SS
3	1	MiniSpec_BackPlate	MiniSpec Clamp Back Plate		Black DELRIN (Acetal)
2	4	V947J 1/4 -20 UNC x 1	50C HD CAP SCREWS		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 DIA #1/16	1 PLACE DIA #02	1 PLACE DIA #005	ANGLES #1"
Shop Foreman		1. DIMENSIONS ARE IN INCHES			
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.			
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.			
		4. MACHINED RILET RAD. 0.050 .020			
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005			
NEXT ASSY Description	NEXT ASSY Number	6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX. .012 INCHES FOR SINGLE SURFACE.			
Application		DO NOT SCALE DRAWING		WEIGHT	lb.

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CIMT-200405 MOORING BUOY	
MiniSpec-Assem	
SIZE B	DWG. NO. 1002413.DWG
SCALE 1:1	CAD FILE: MECH ENG ON TORNO
SHEET 1 Of 8	





NOTES: (CONT. FROM TITLE BLOCK)

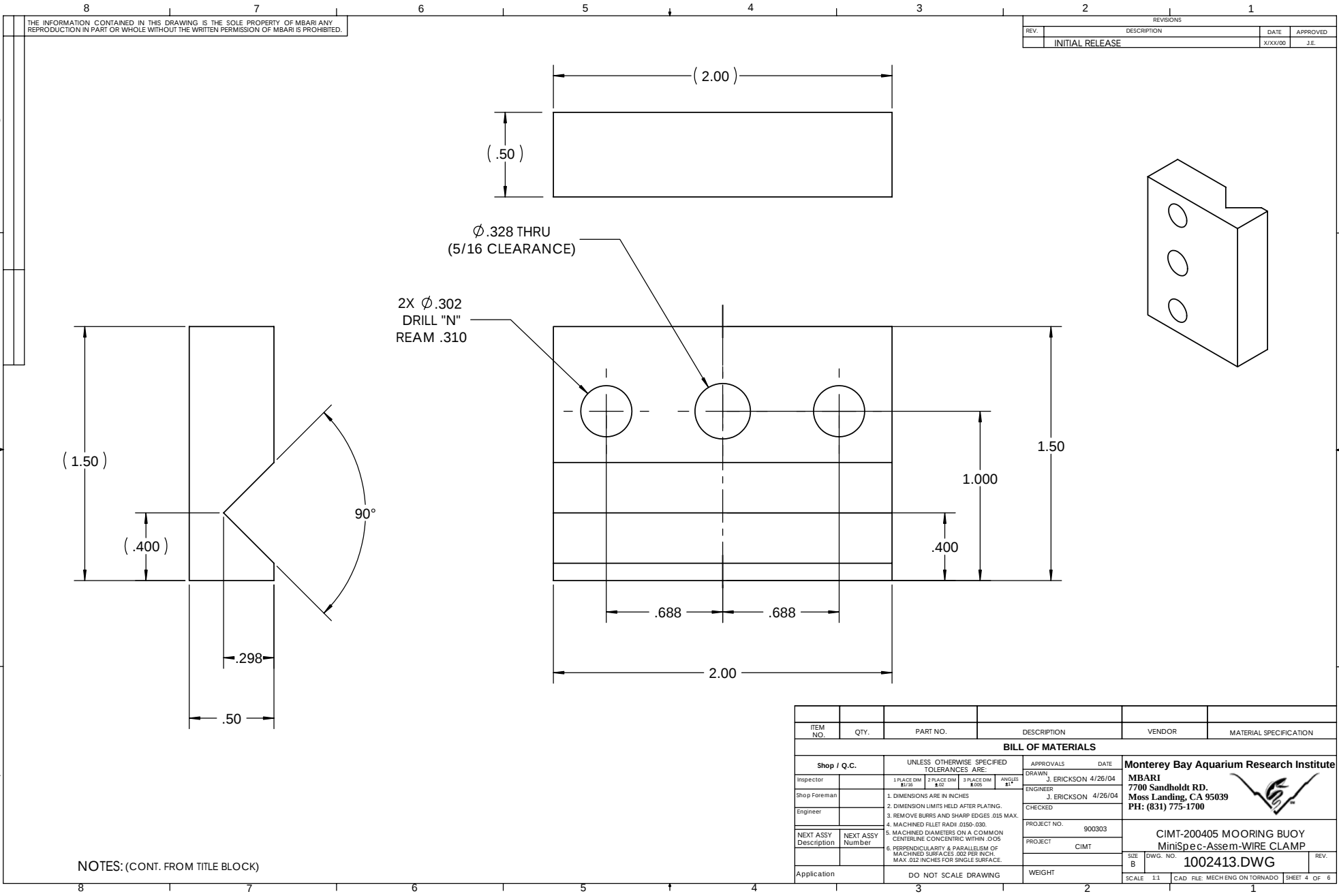
ITEM NO.	QTY.	PART NO.	DESCRIPTION	VENDOR	MATERIAL SPECIFICATION
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM ±.010	2 PLACE DIM ±.020	3 PLACE DIM ±.050	ANGLES ±.1°
Shop Foreman		1. DIMENSIONS ARE IN INCHES		DRAWN J. ERICKSON 4/26/04	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.		ENGINEER J. ERICKSON 4/26/04	
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		CHECKED	
		4. MACHINED FILLET RADI .015-.030		PROJECT NO. 900303	
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		PROJECT CIMT	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 FOR INCH, MAX .012 INCHES FOR SINGLE SURFACE.			
Application		DO NOT SCALE DRAWING		WEIGHT	

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CIMT-200405 MOORING BUOY
MiniSpec-Assem-CLAMP BACK PLATE

SIZE B DWG. NO. 1002413.DWG REV.

SCALE 1:1 CAD FILE: MECH-ENG ON TORNAO SHEET 3 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 ±.10	2 PLACE DIM ±.05	3 PLACE DIM ±.01	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 RADI .015-.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.	PROJECT NO.	900303
NEXT ASSY Description	NEXT ASSY Number	DO NOT SCALE DRAWING		PROJECT	CIMT
Application		DO NOT SCALE DRAWING		WEIGHT	
SCALE 1:1		CAD FILE: MECH ENG ON TORNO		SHEET 4 OF 6	

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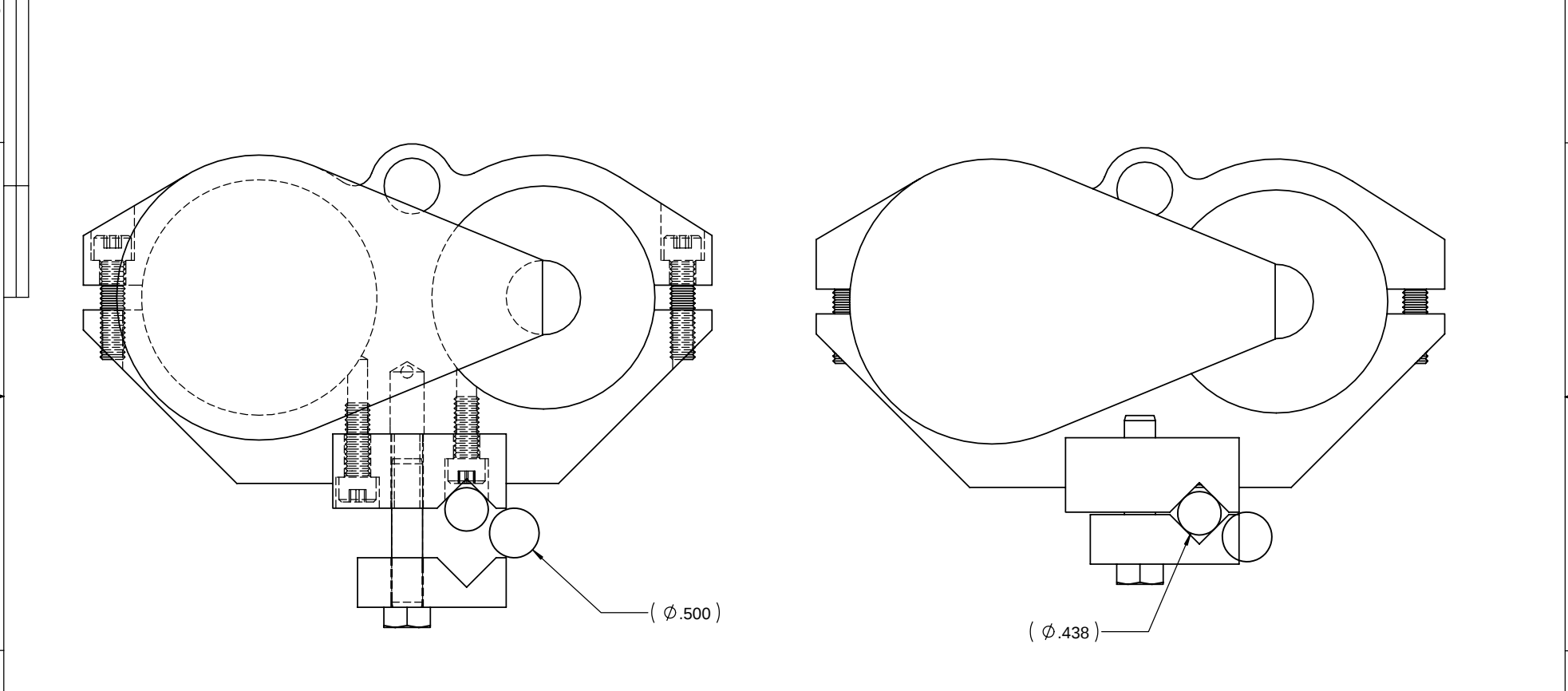
CIMT-200405 MOORING BUOY

MiniSpec-Assem-WIRE CLAMP

SIZE B

DWG. NO. 1002413.DWG

REV.



NOTES: (CONT. FROM TITLE BLOCK)

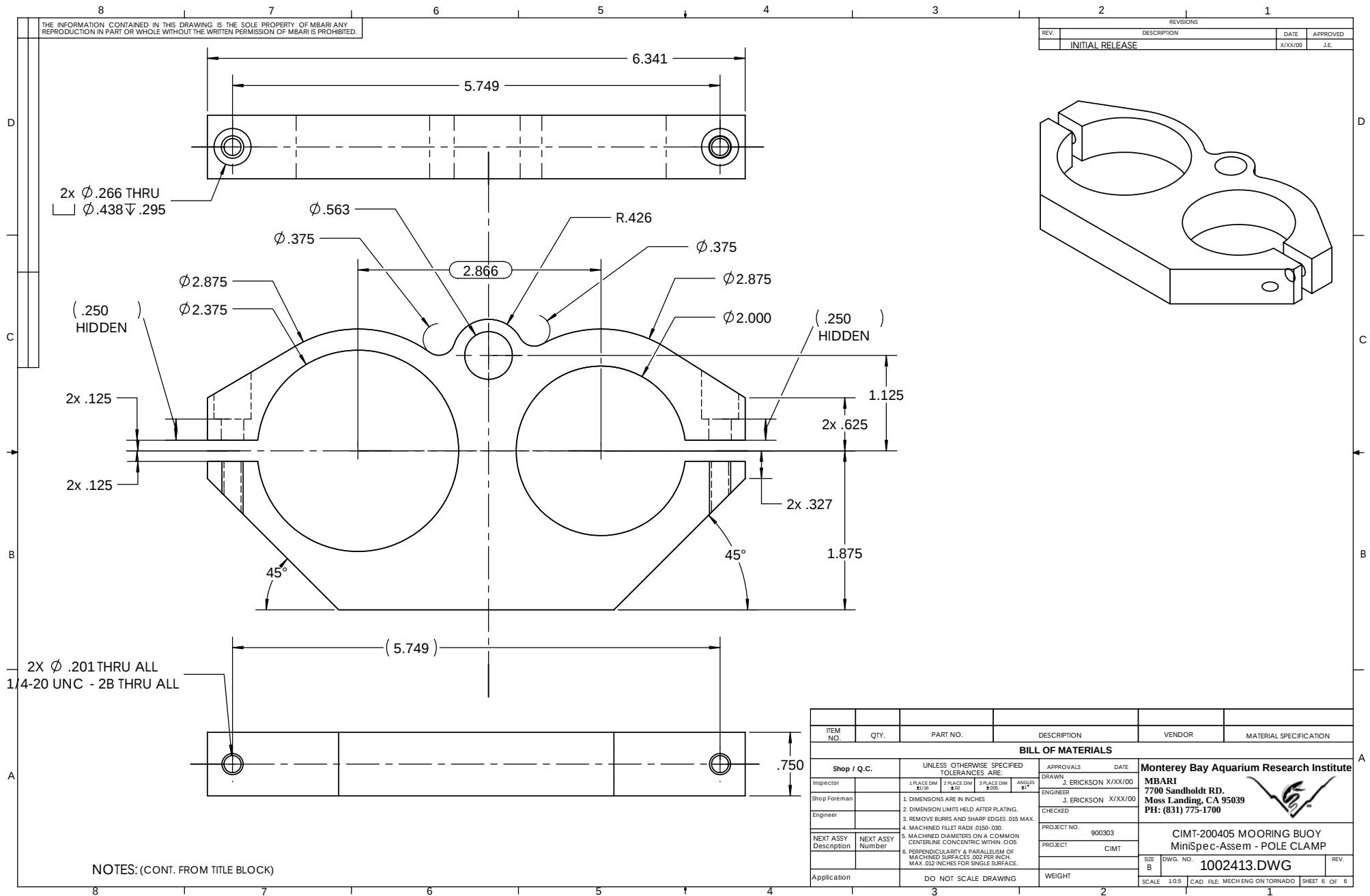
ITEM NO.	QTY.	PART NO.	DESCRIPTION	VENDOR	MATERIAL SPECIFICATION
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM ±.10	2 PLACE DIM ±.05	3 PLACE DIM ±.005	ANGLES ±.1
Shop Foreman		1. DIMENSIONS ARE IN INCHES		DRAWN J. ERICKSON X/XX/00	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.		ENGINEER J. ERICKSON X/XX/00	
NEXT ASSY Description		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		CHECKED	
NEXT ASSY Number		4. MACHINED FILLET RADII .015-.030		PROJECT NO. XXX	
Application		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		PROJECT ZZZZZZZZ	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX. .012 INCHES FOR SINGLE SURFACE.			
		DO NOT SCALE DRAWING		WEIGHT	
				SCALE 1:0.5	

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PROJECT NAME
MiniSpec-Assem

SIZE B DWG. NO. 100XXXDWG REV.

CAD FILE: MECH ENG ON TORNAO SHEET 5 OF 6



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 $\pm$.10	2. PLACE DIM $\pm$.05	3. PLACE DIM $\pm$.05	ANGLES $\pm$.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 RADI .015-.030.
Engineer		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005	6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 FOR INCH, MAX .012 INCHES FOR SINGLE SURFACE.	PROJECT NO.	900303
NEXT ASSY Description	NEXT ASSY Number	DO NOT SCALE DRAWING		PROJECT	C/MT
Application		WEIGHT		SCALE	1:0.5
Cadm File: MECH ENG ON TORNO		SHEET 6 OF 6		REV.	

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CIMT-200405 MOORING BUOY
MiniSpec-Assem - POLE CLAMP

SIZE B DWG. NO. 1002413.DWG