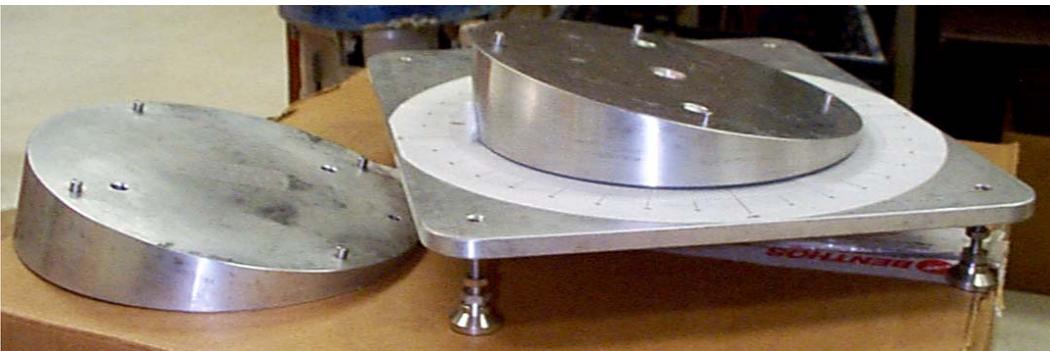
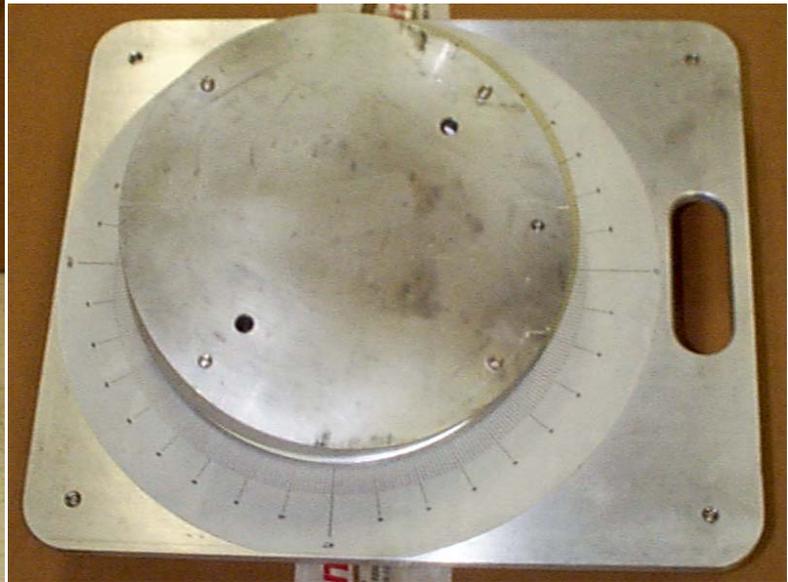


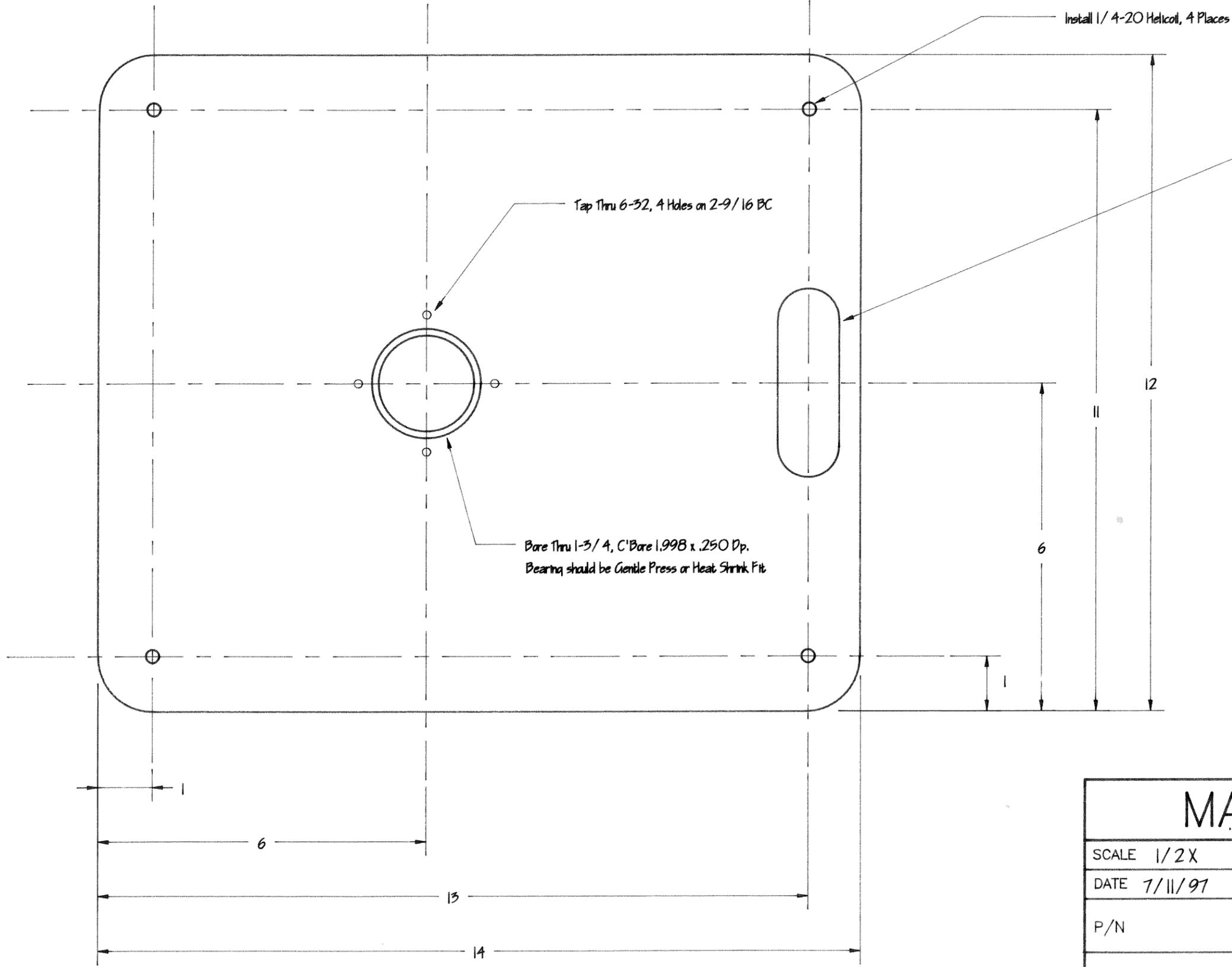
ADCP compass calibration table
USGS Woods Hole Coastal and Marine Science Center
Woods Hole, MA 02543
6 Nov. 2009

Concept: Marinna Martini
Design: Ray Davis

The point of this was to provide smooth rotation as we found the ADCP would reject wobbly data when dragging the unit around on a piece of cardboard. Back in 1997, it cost about \$600 to build. It is made of non ferrous material. You can also calibrate the ADCP as down-looking by setting the ADCP, transducer down, on the flat surface resulting from the two wedges fit together.

Not listed in Ray's drawings and parts order are the graduated markings and a simple bubble level. The markings were a printout glued to the table, and a bubble level is handy when setting up the table, as the feet are adjustable.

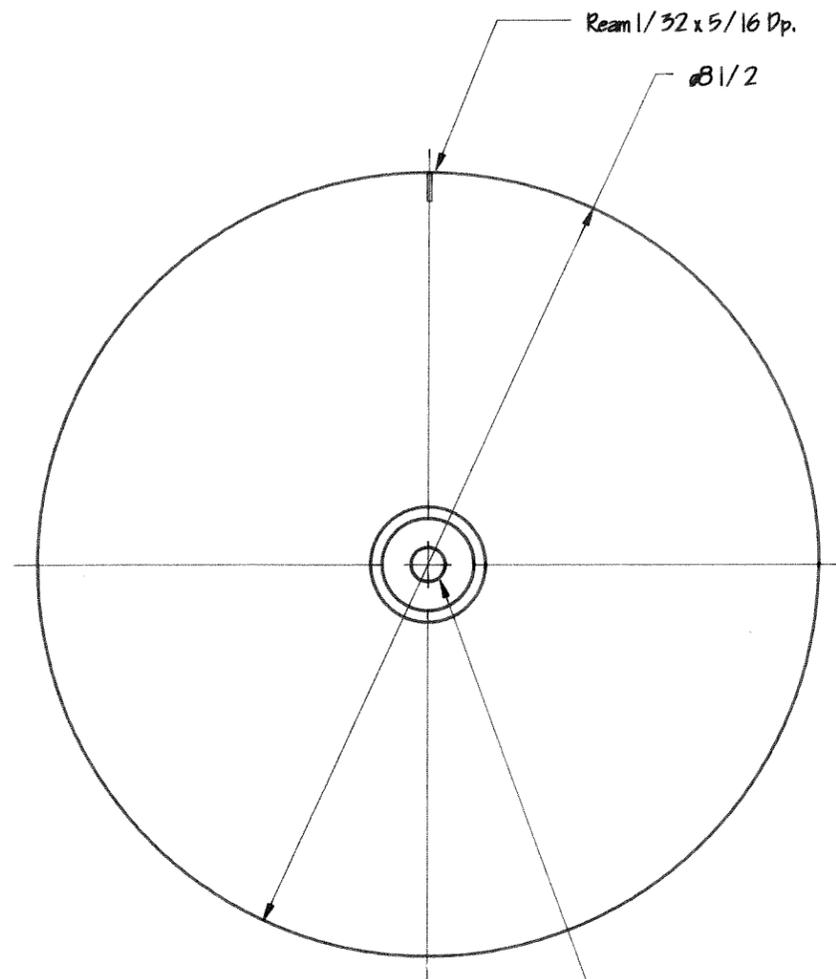




Note

1. Make 1 Piece
2. Material: 3/8" Thick 6061-T6 Al.
3. Round/Smooth All Edges 1/32 R
4. Tol: ±.001, 1/64

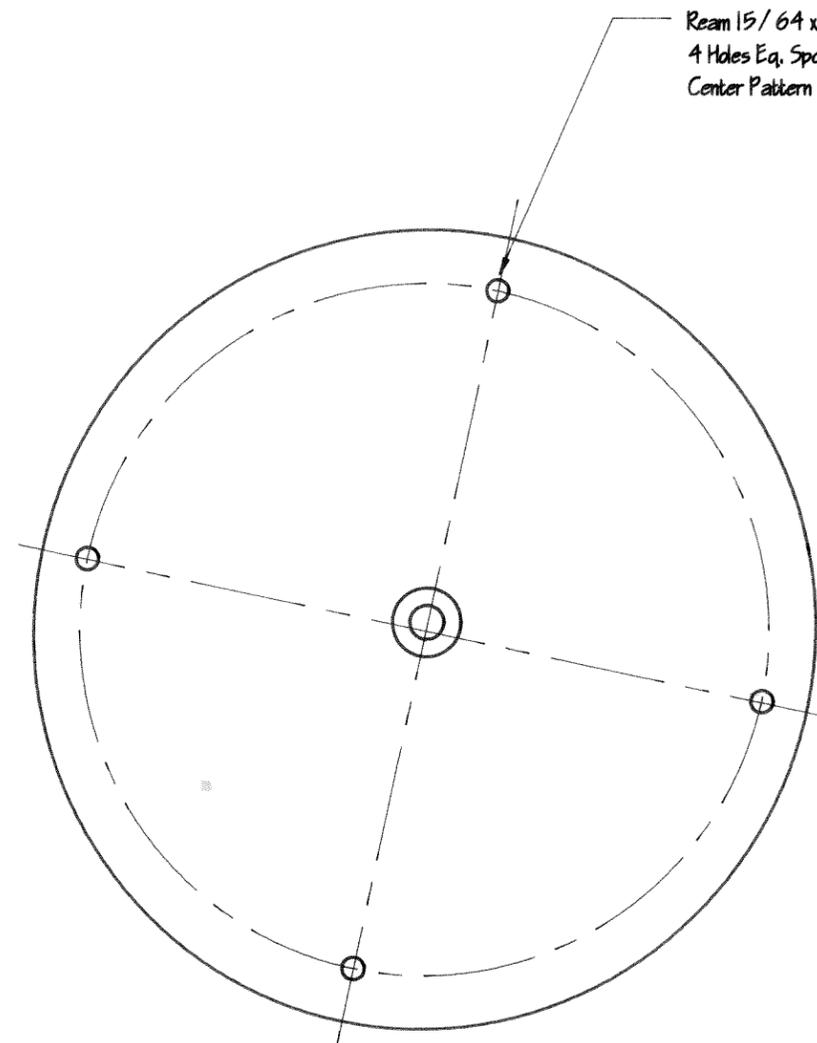
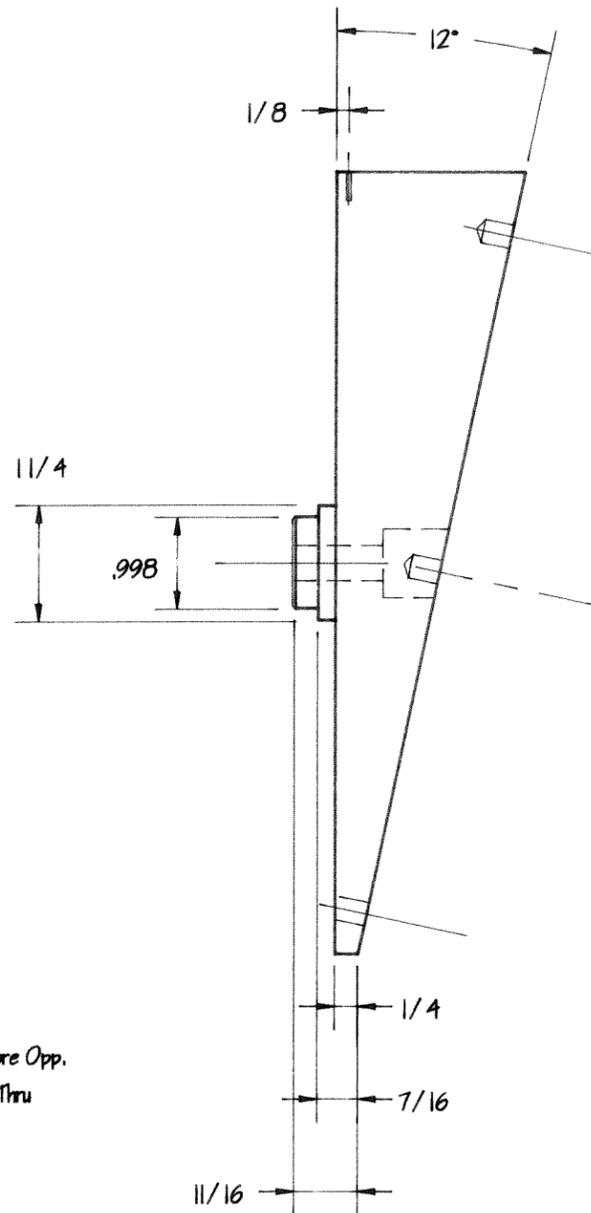
<h1>MARINNA STUFF</h1>		
SCALE 1/2 X	REVISIONS	DRAWN BY
DATE 7/11/97		R.E. Davis
P/N	ADCP Test Stand Plate	
DWG/FILE	ADCPPLAT	DRAWING NO. 1 of 6



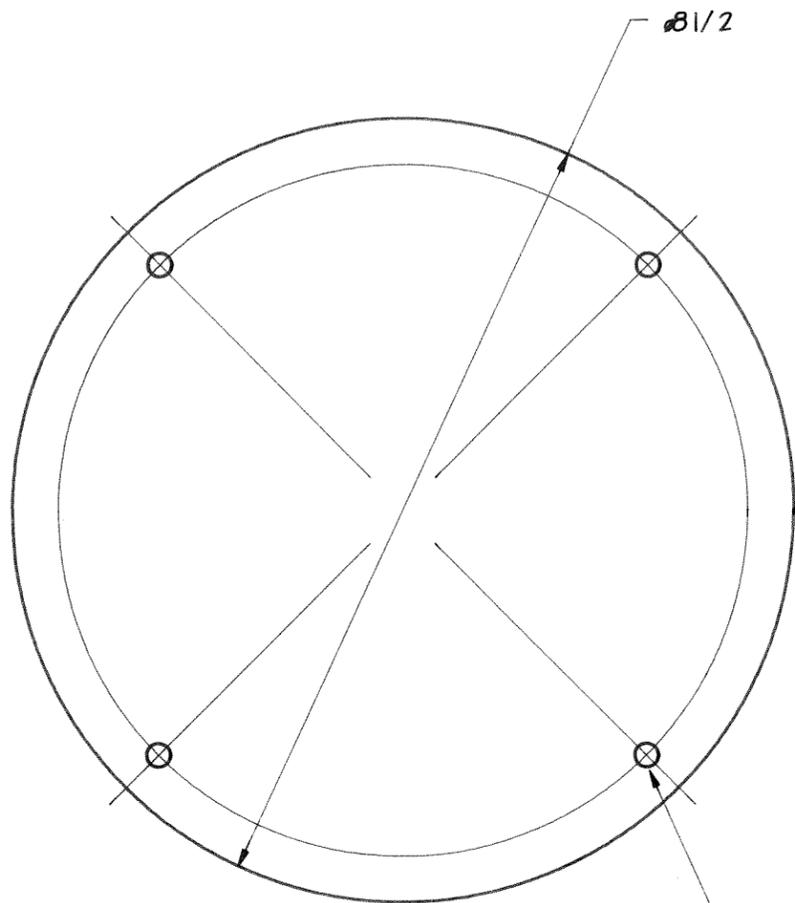
Drill Thru $21/64$, C'Bore Opp.
Side $3/4$ Dia. x $1/2$ Thru

Note

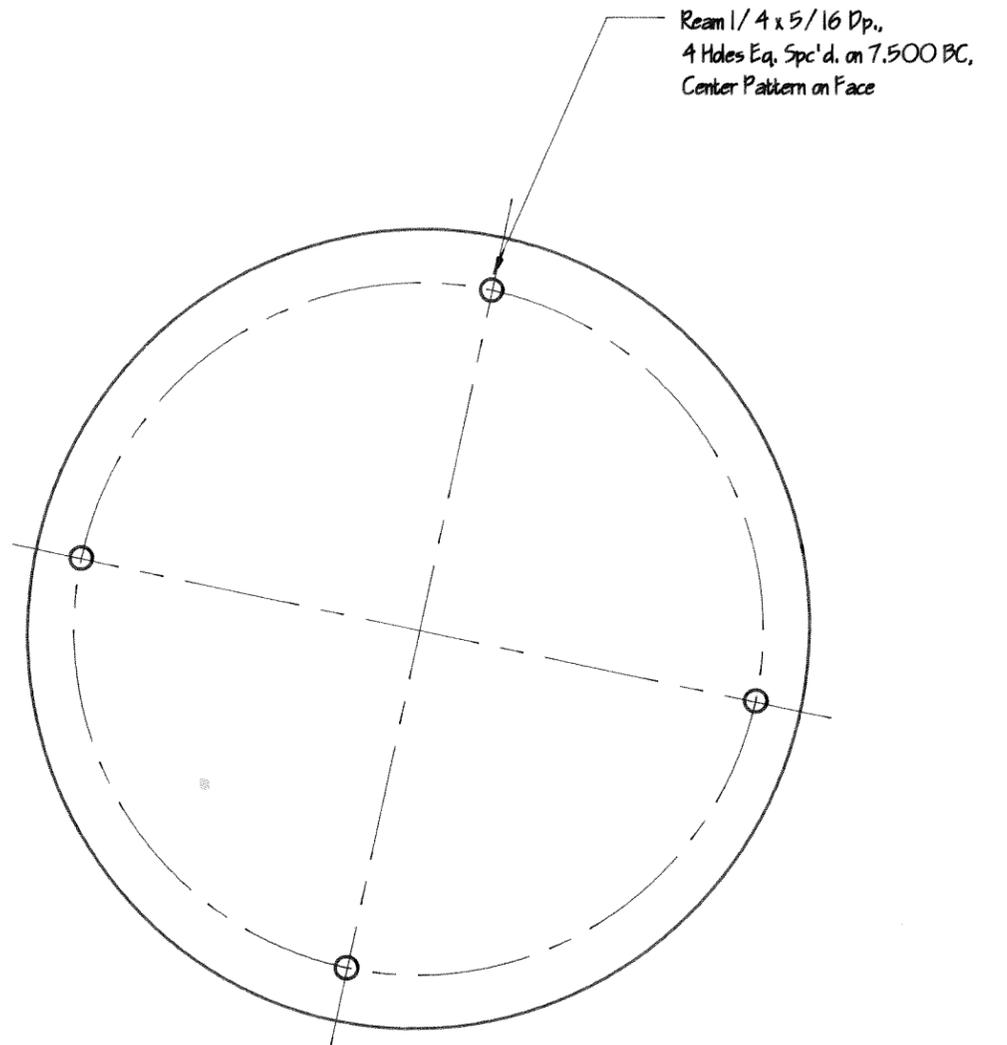
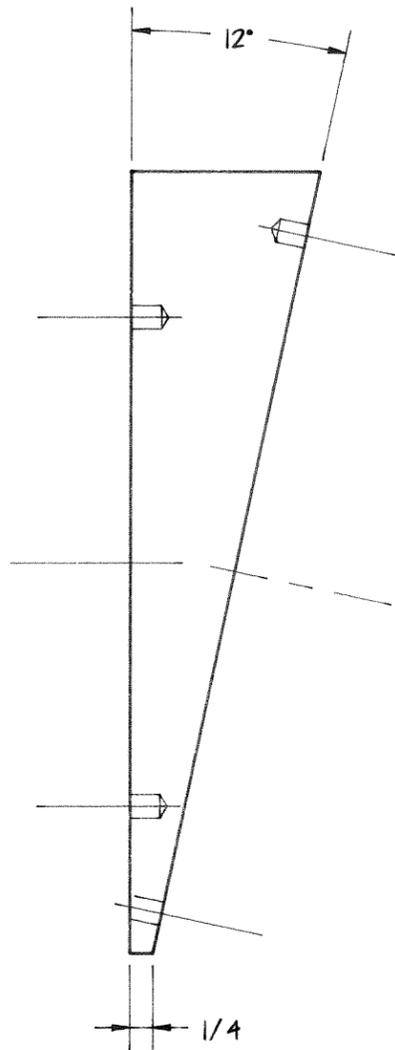
1. Make 1 Piece
2. Material: 6061-T6 Al
3. Chamfer Edges $1/32$ x $1/32$
4. Tol: $\pm .001, 1/64, 1/4^\circ$



<h1>MARINNA STUFF</h1>		
SCALE $1/2X$	REVISIONS	DRAWN BY
DATE 7/11/97		R.E. Davis
P/N	ADCP Bevel Table	
DWG/FILE	ADCPBEVT	DRAWING NO. 2 of 6



Ream 15/64 x 5/16 Dp.,
 4 Holes Eq. Spc'd. on 7.500 BC
 This Hole Pattern 45° Offset
 from Opp. Face

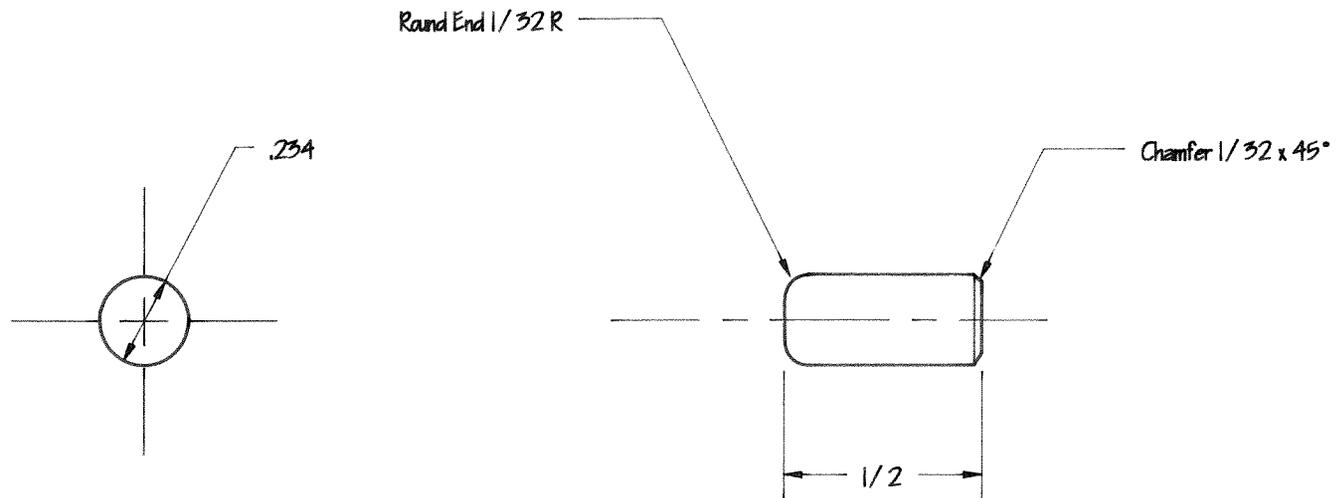


Ream 1/4 x 5/16 Dp.,
 4 Holes Eq. Spc'd. on 7.500 BC,
 Center Pattern on Face

Note

1. Make 1 Piece
2. Material: 6061-T6 Al
3. Chamfer Edges 1/32 x 1/32
4. Tol: ±.001, 1/64, 1/4°

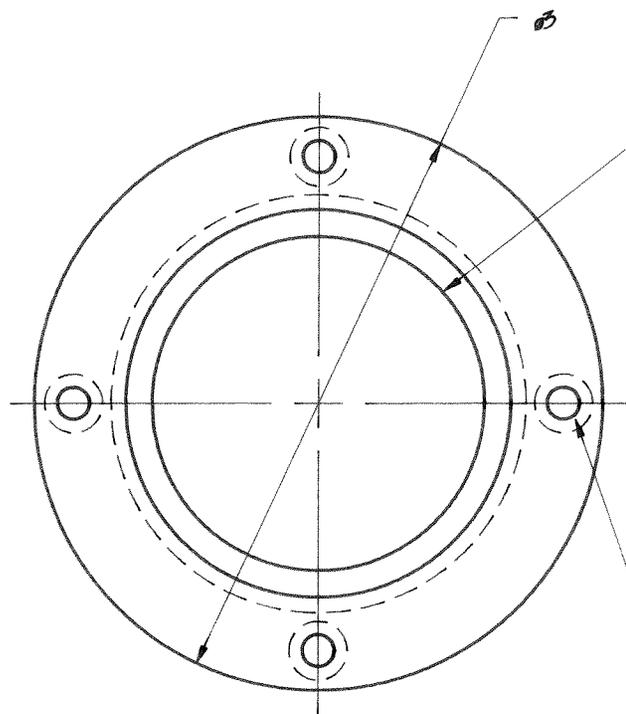
<h1>MARINNA STUFF</h1>		
SCALE 1/2X	REVISIONS	DRAWN BY
DATE 7/11/97		R.E. Davis
P/N	ADCP Flat Table	
DWG/FILE	ADCPFLT	DRAWING NO. 3 of 6



Note

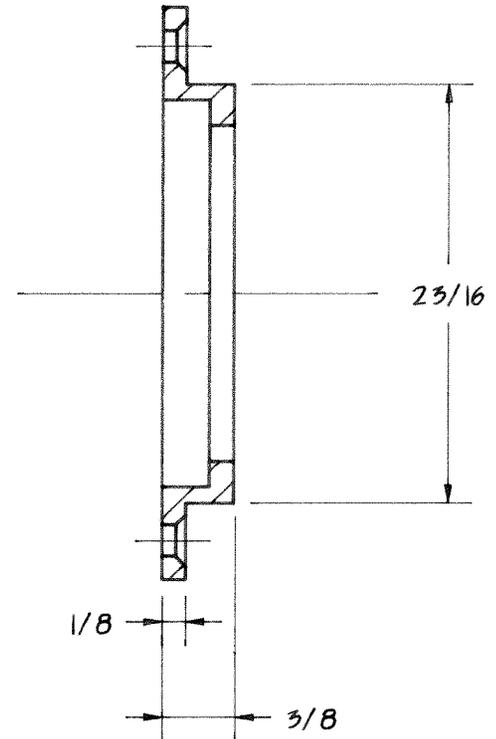
1. Make 8 Pieces
2. Material: SS
3. Td: $+ .001, \pm 1/64$
4. Press into the eight $15/32$ Reamed holes,
Drawings # 2 and 3

<h1>MARINNA STUFF</h1>		
SCALE 2X	REVISIONS	DRAWN BY
DATE 7/14/97		R.E. Davis
P/N	ADCP Locating Pins	
DWG/FILE	ADCPLPIN	DRAWING NO. 4 of 6



Bore Thru 1-3/4, C'Bore 2.025 x .255 Dp.

Drill Thru 5/32, CSK
Opp. Side for 6-32 Flt.d.
Eq. Sp'cd. on 2-9/16 BC

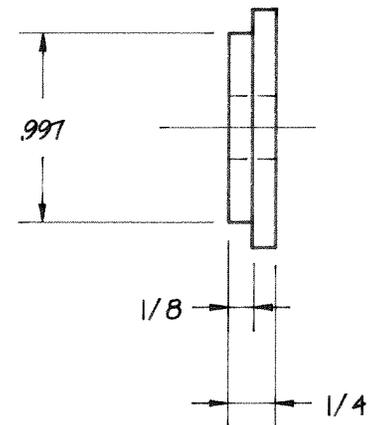
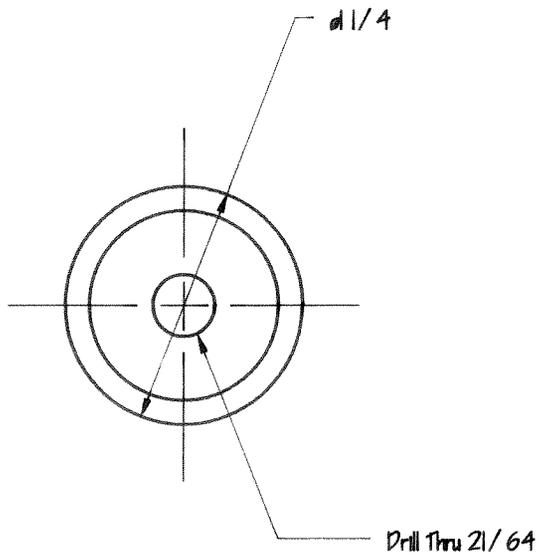


Note

1. Make 1 Piece
2. Material: 6061-T6 Al
3. Break/Smooth Edges
4. Tol: ±.005, 1/64

MARINNA STUFF

SCALE Full	REVISIONS	DRAWN BY
DATE 7/14/97		R.E. Davis
P/N	ADCP Bearing Retainer	
DWG/FILE	ADCPBART	DRAWING NO. 5 of 5



Note

1. Make 1 Piece
2. Material: SS
3. Break Edges
4. Tol: $\pm .001, 1/64$

<h1>MARINNA STUFF</h1>		
SCALE Full	REVISIONS	DRAWN BY
DATE 7/14/97		R.E. Davis
P/N	ADCP Washer	
DWG/FILE	ADCPWASH	DRAWING NO. 6 pf 6

UNITED STATES
DEPARTMENT OF THE INTERIOR
REQUISITION

Ardis:
S

*Please call in today -
Thank - Ray*

To Ray Davis		Bureau/Office		Requisition No.:	
				Date: 7/11/97	
Project Charged 32214		Time for Delivery: 4 Days.		Payment Terms: VISA	
Vendor: McMaster-Carr 473 Ridge Road Dayton, New Jersey 08810-0317 908-329-3200		Charge shipping costs to 32214			
		Delivery to: R.E. Davis USGS/MOF 35W Woods Hole Rd		Contract Number	
		Company Size: Small			
ITEM NO. FORM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1.	# 6111K78 1/4" SS level mount	4	Each	\$ 12.83	\$51.32
2.	# 5908K21 SS Ball Bearing	1	Each	\$39.17	\$39.17
			Shipping Approx		5.00
				TOTAL	\$95.49

To Be Completed by Fiscal Authority Only
FUND CERTIFICATION: Funds in the amounts shown are available and chargeable to the cost authorities shown above.

Signature <i>Raymond E. Davis</i>	Date <i>7/11/97</i>	Approved by (Signature)	Date
<i>Same</i>		Title	
Requisitioned by (Signature) <i>RE Davis</i>	Date <i>7/11/97</i>	Bureau Officer (Signature)	Date
Title MOF Supervisor/Office Mechanical Engineer		Title	