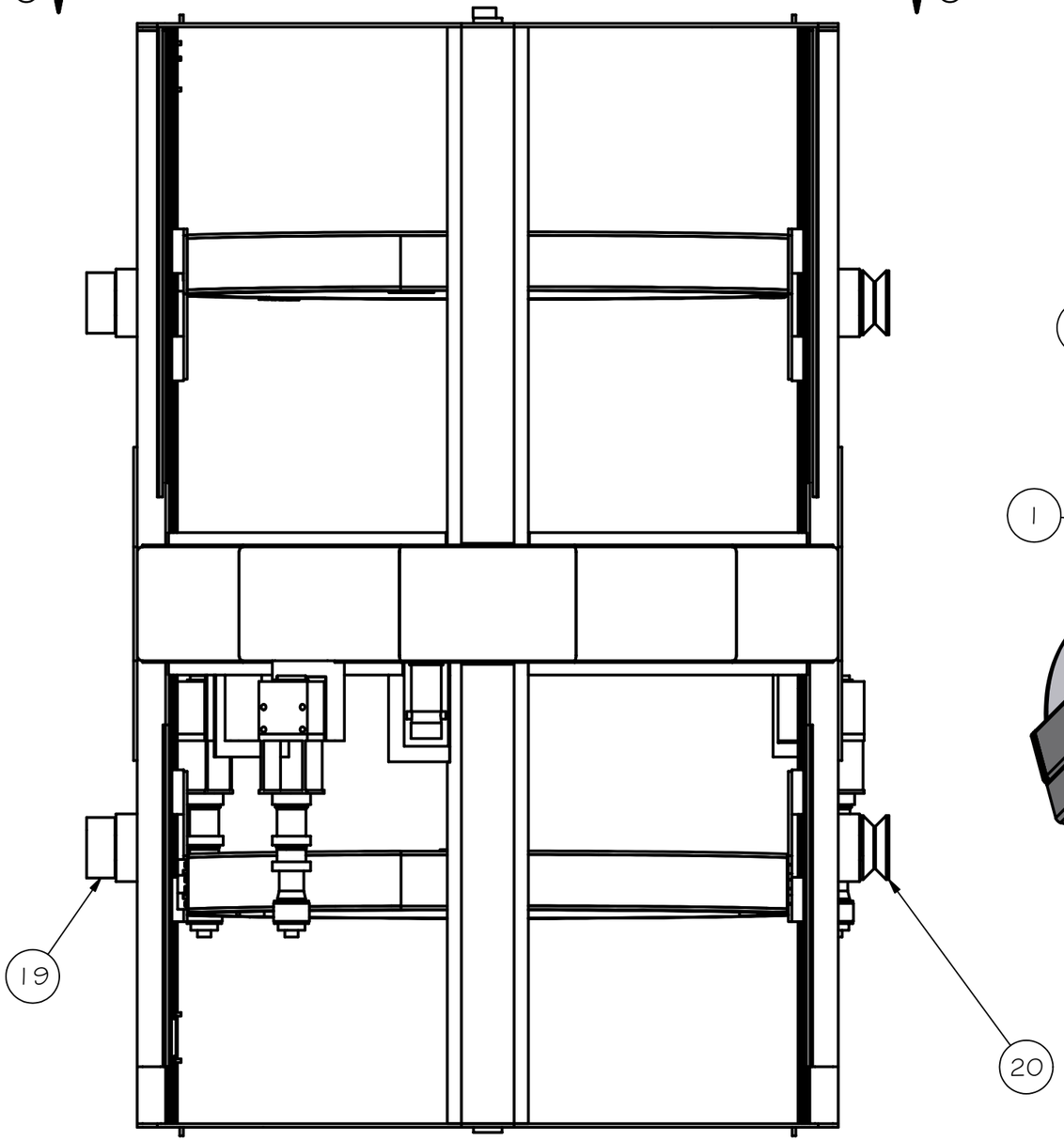
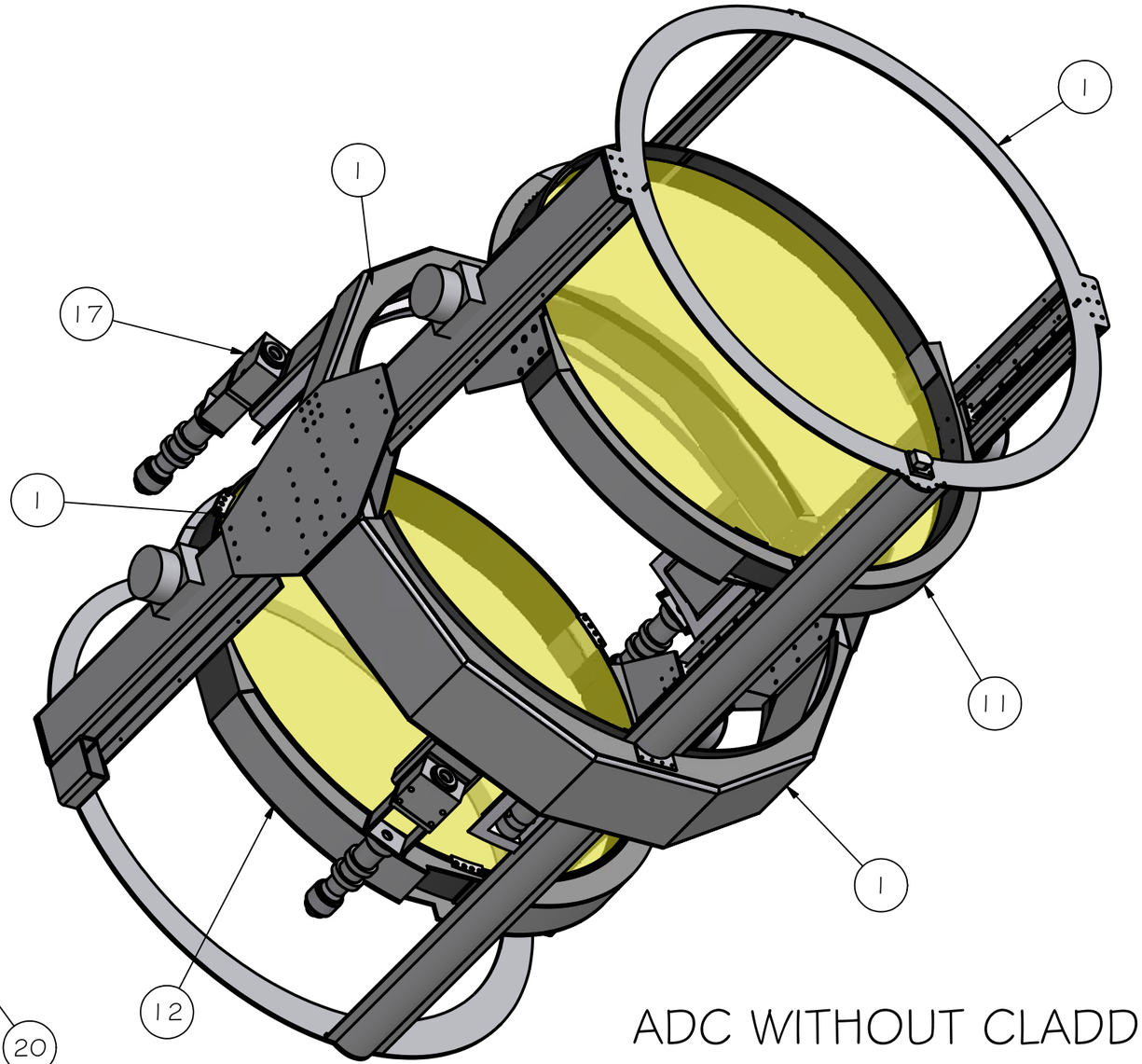
REV	DRWN	CHK'D	DATE	DESCRIPTION





ADC WITHOUT CLADDING OR COVERS

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	7/22/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

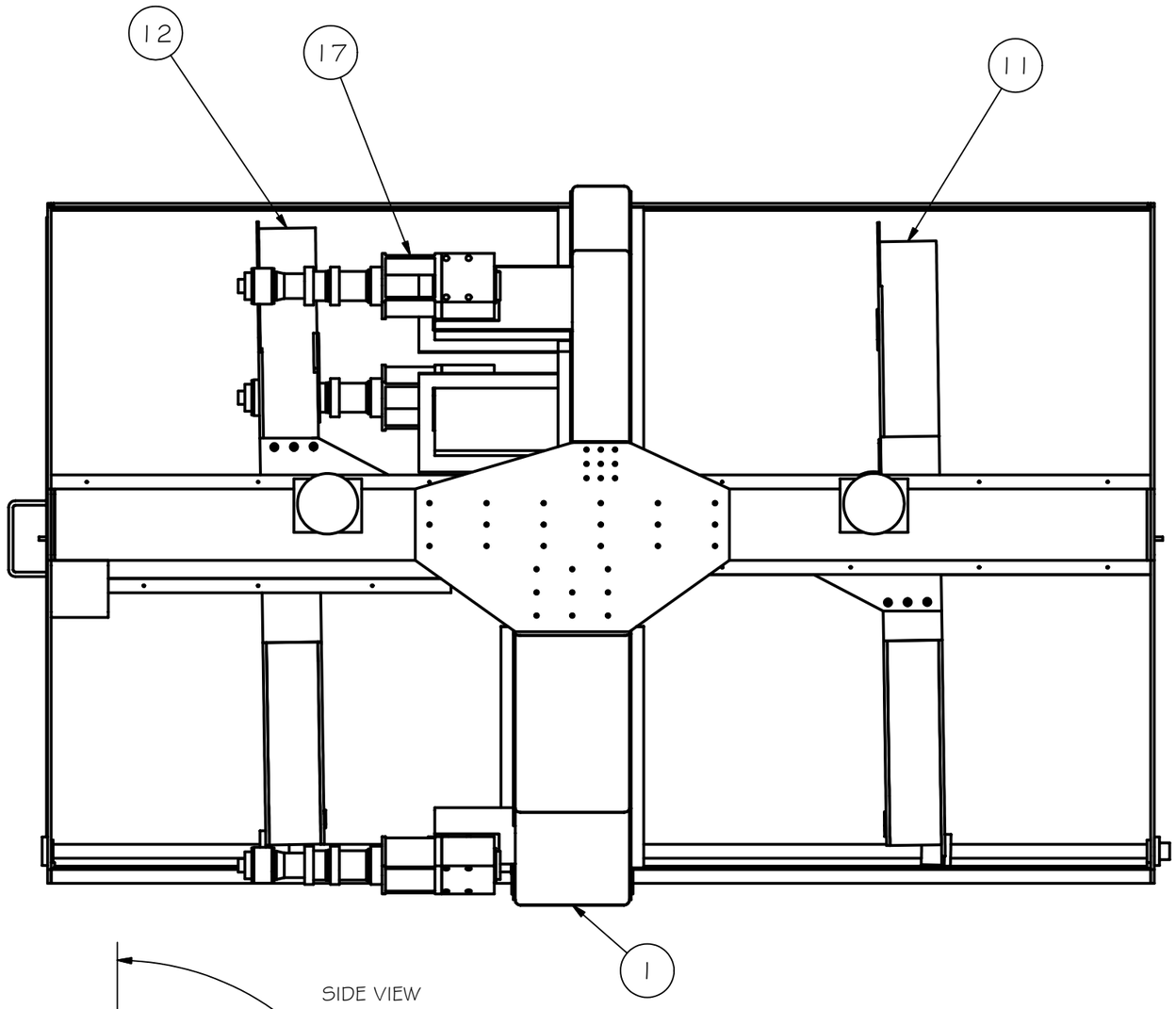
TITLE: ADC ASSSEMBLY

PROJECT CODE | DWG NO: A0001 | REV: A

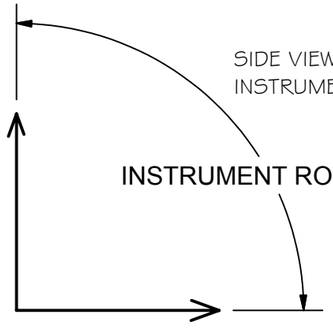
NEXT ASS'Y: TOP LEVEL

1/4

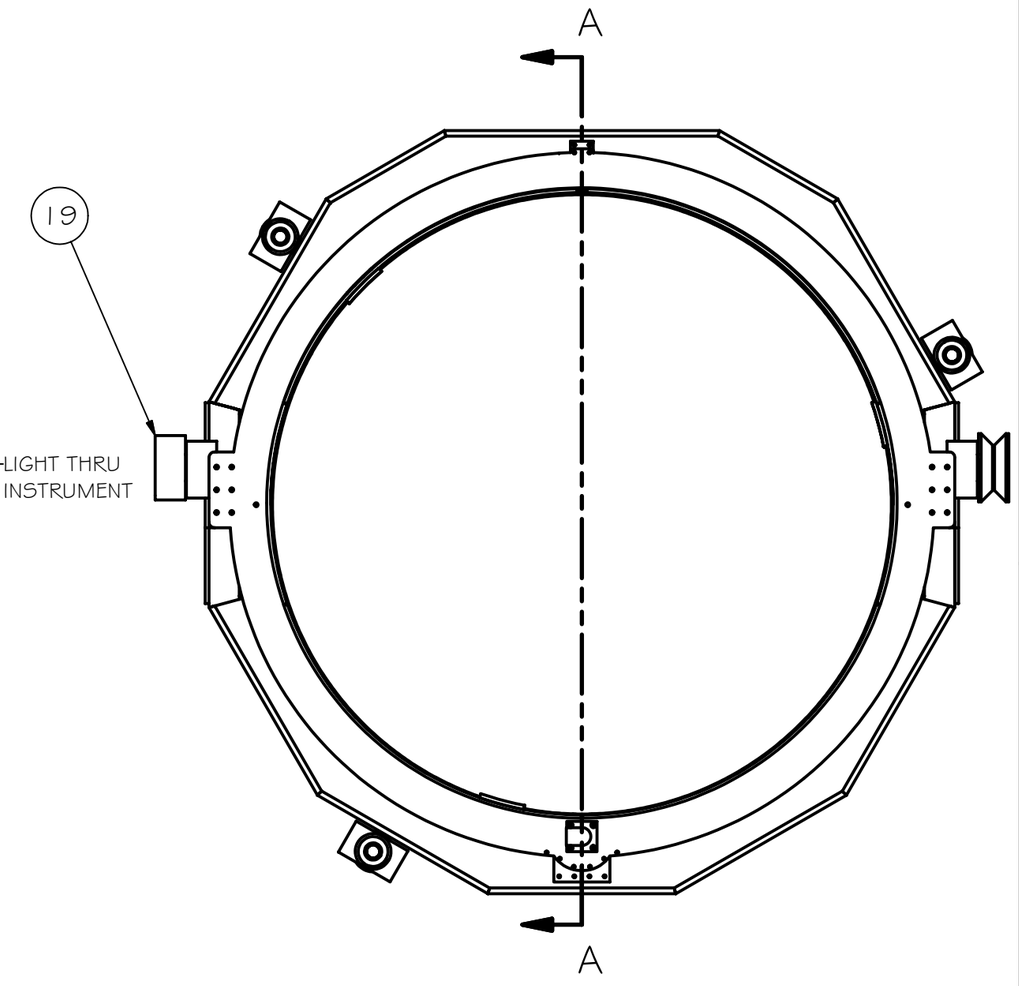
REV	DRWN	CHK'D	DATE	DESCRIPTION



SIDE VIEW
INSTRUMENT ROTATES FROM THIS ORIENTATION TO LOOKING STRAIGHT UP



LIGHT THRU INSTRUMENT



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	7/22/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

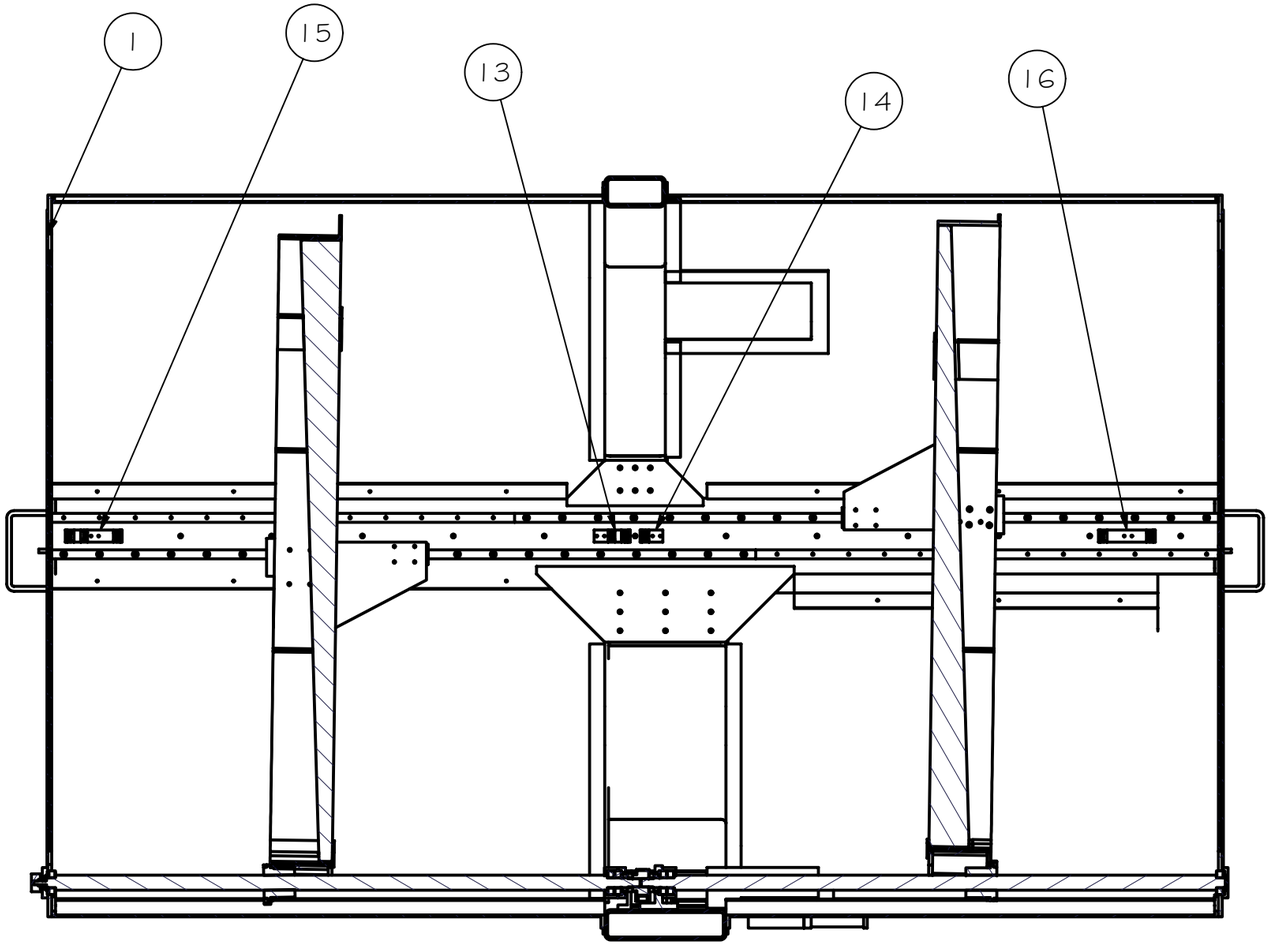
TITLE: ADC ASSSEMBLY

PROJECT CODE | DWG NO: A000 1 | REV: A

NEXT ASS'Y: TOP LEVEL

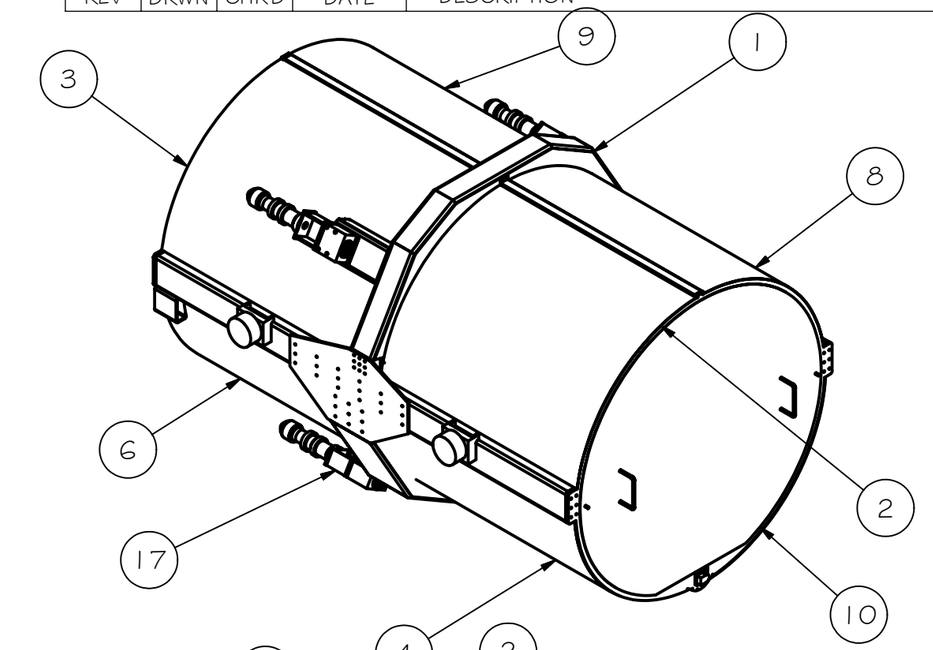
2/4

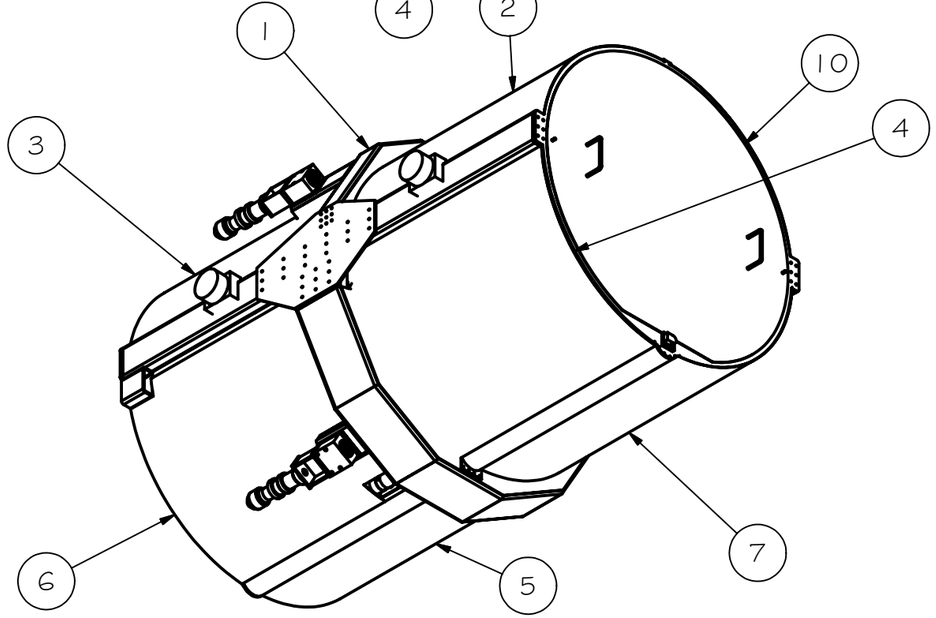
REV	DRWN	CHK'D	DATE	DESCRIPTION



SECTION A-A
SCALE 1 / 10

NOTES:
1) CLADDING HOLES NOT GENERALLY SHOWN.
MATCH DRILL FOR 8-32 SOCKET BUTTON CAP SCREWS
ON APPROX. 8" CENTERS
2) TOTAL WEIGHT = 1250 LB.
3) PAINT ALL STEEL SURFACES BLACK WITH AMERON 385
4) FLOCK INSIDE SURFACES WITH ULTRA-POL UP-V-W/PSA





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	7/22/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

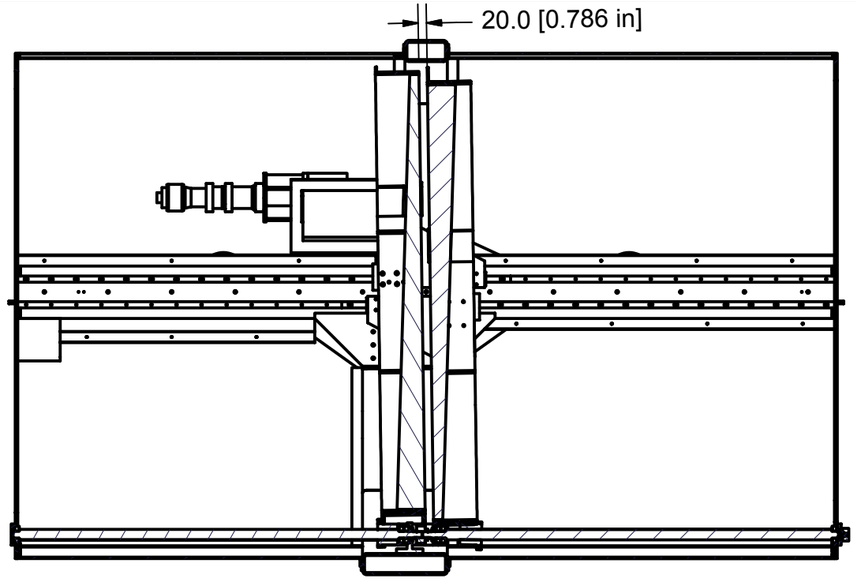
Cassegrain ADC

TITLE: ADC ASSSEMBLY

PROJECT CODE | DWG NO: A0001 | REV: A | 3/4

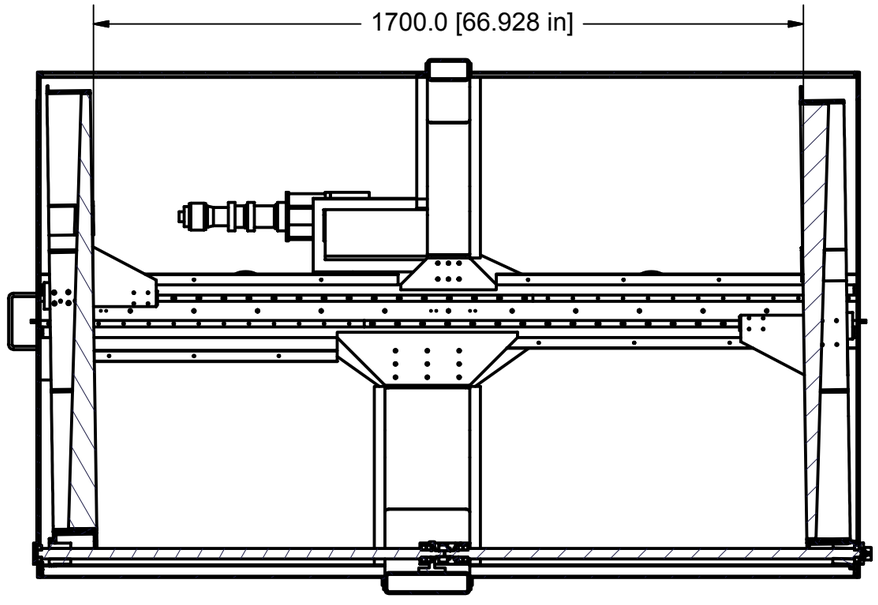
NEXT ASS'Y: TOP LEVEL

REV	DRWN	CHK'D	DATE	DESCRIPTION



NULL CORRECTION, SHOWN WITHOUT CLADDING OR COVERS

SECTION G-G
SCALE 0.07 : 1



FULL CORRECTION, SHOWN WITHOUT CLADDING OR COVERS

SECTION F-F
SCALE 0.07 : 1

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A1000	BASE / DRIVE ASSEMBLY
2	1	A1501	FWD CLADDING UPPER
3	1	A1502	AFT CLADDING UPPER
4	1	A1503	FWD CLADDING LOWER
5	1	A1504	AFT CLADDING LOWER
6	1	A1505	AFT CLADDING LOWER
7	1	A1506	FWD CLADDING LOWER
8	1	A1507	FWD CLADDING UPPER
9	1	A1508	AFT CLADDING UPPER
10	2	A1510	COVER ASSEMBLY, FWD
11	1	A2001	FWD CELL ASSEMBLY
12	1	A2002	AFT CELL ASSEMBLY
13	1	A3015	FIDUCAL ASSEMBLY, DOUBLE
14	1	A3016	FIDUCAL ASSEMBLY, SINGLE
15	1	A3017	FIDUCAL ASSEMBLY, TRIPLE
16	1	A3019	FIDUCAL ASSEMBLY, WIDE DOUBLE
17	3	A4001	HARDPOINT INSTRUMENT SIDE
18	1	nut_1-qtr	
19	2	ROLLER - FLAT	OSBORN PLR-4 1/2
20	2	ROLLER - V	OSBORN VLR-4 1/2
21	1	washer_1-qtr	

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	7/22/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

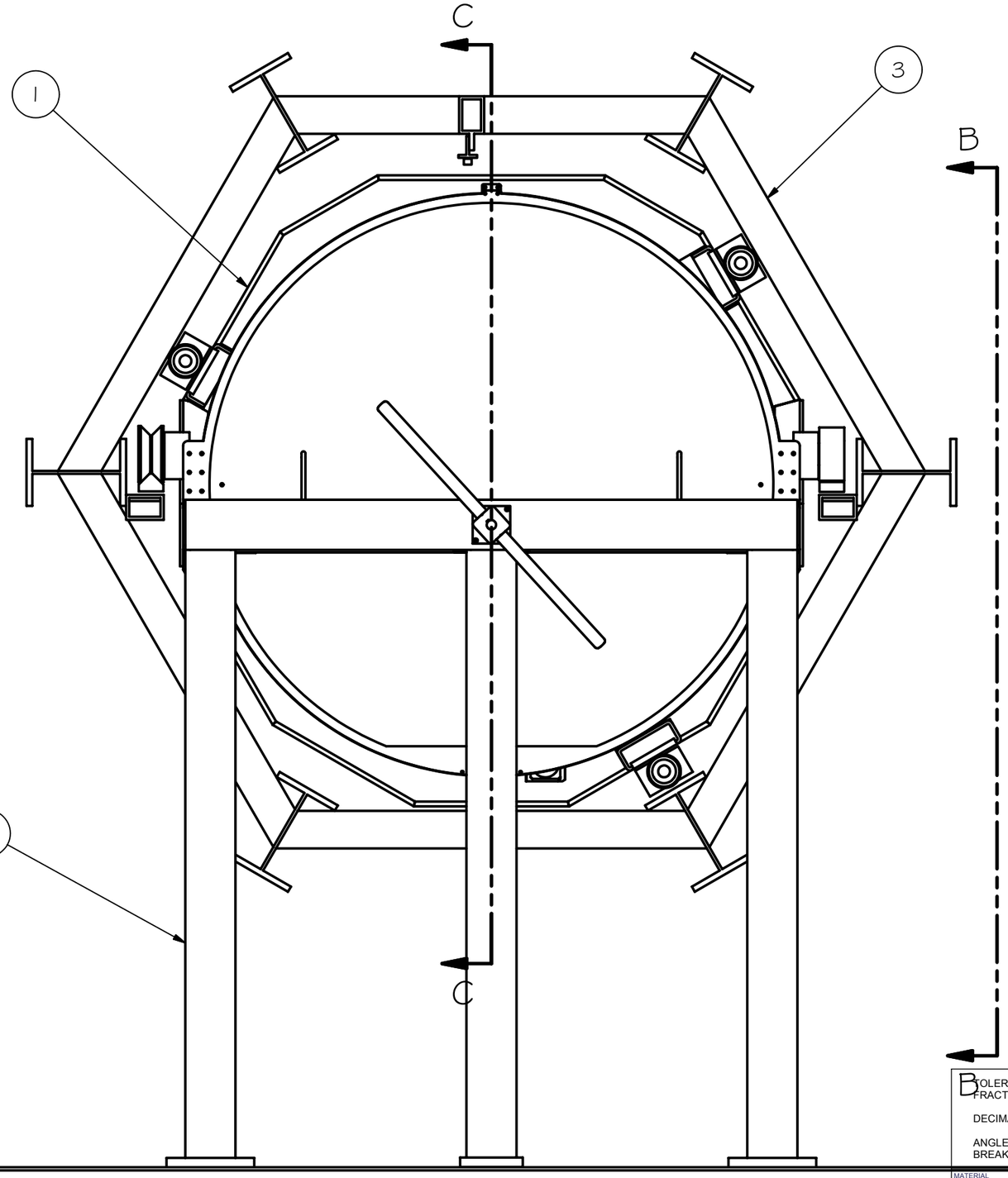
Cassegrain ADC

TITLE: ADC ASSSEMBLY

PROJECT CODE | DWG NO: A0001 | REV: A

NEXT ASS'Y: TOP LEVEL

REV	DRWN	CHK'D	DATE	DESCRIPTION



Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A0001	CASSEGRAIN ADC
2	1	A5001	JACK STAND
3	1	A6002	TRANSFER MODULE, K1
4	1	DECK	NASMYTH DECK SURFACE

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	8/1/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

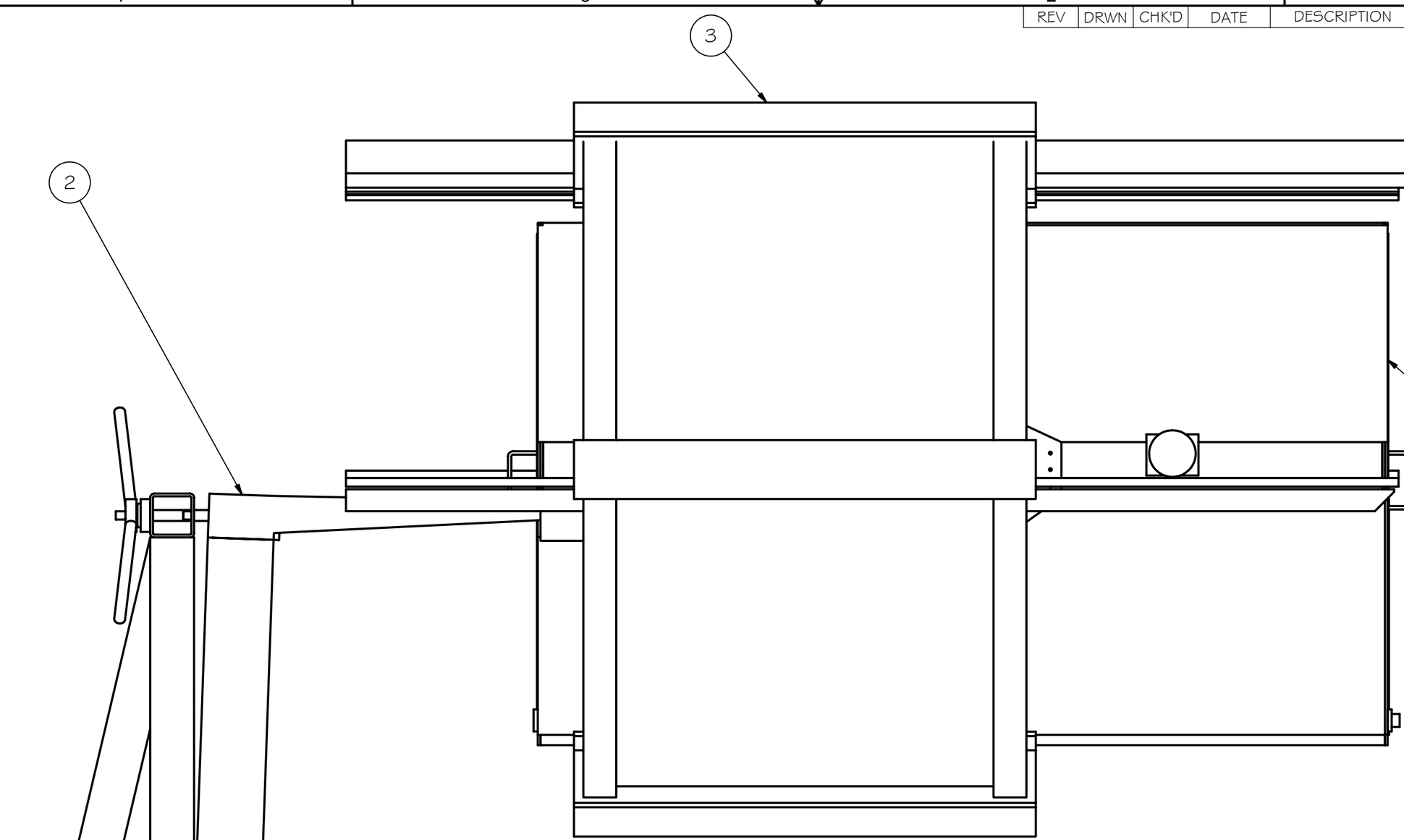
Cassegrain ADC

TITLE: ADC, TRANSSFER MODULE, JACK STAND

PROJECT CODE | DWG NO: A0003 | REV: A

NEXT ASS'Y: N/A | 1/4

REV	DRWN	CHK'D	DATE	DESCRIPTION



VIEW B-B
SCALE 1 / 10

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	8/1/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

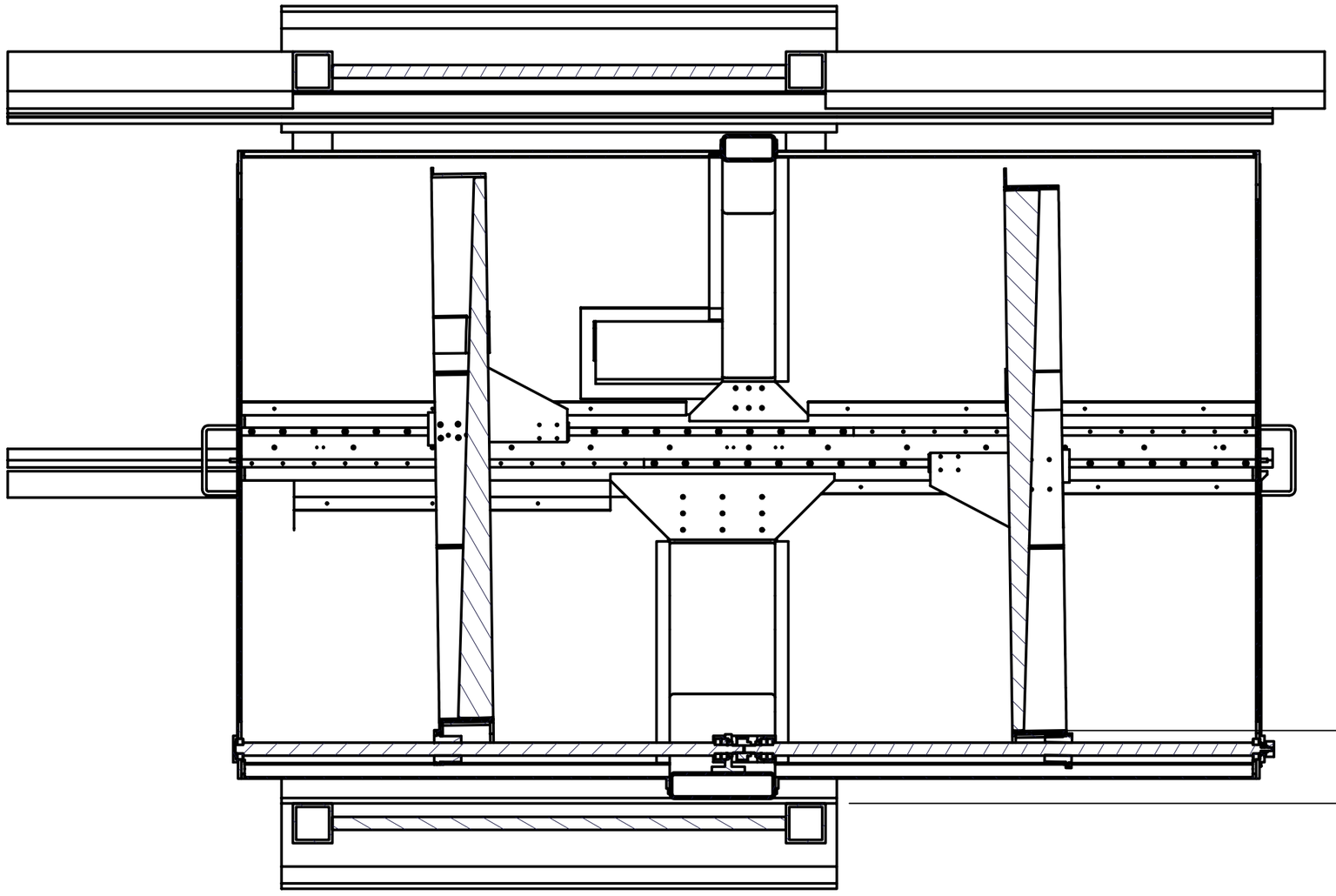
TITLE: ADC, TRANSSFER MODULE, JACK STAND

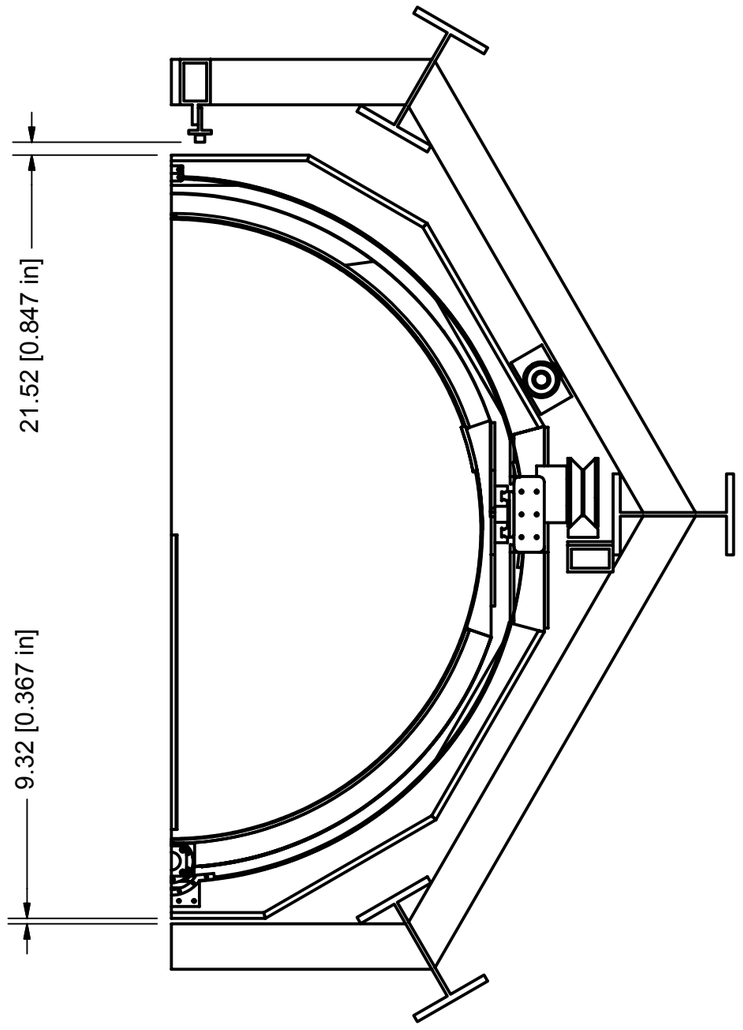
PROJECT CODE | DWG NO: A0003 | REV: A

NEXT ASS'Y: N/A

2/4

REV	DRWN	CHK'D	DATE	DESCRIPTION





SECTION C-C
SCALE 1 / 10

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	8/1/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

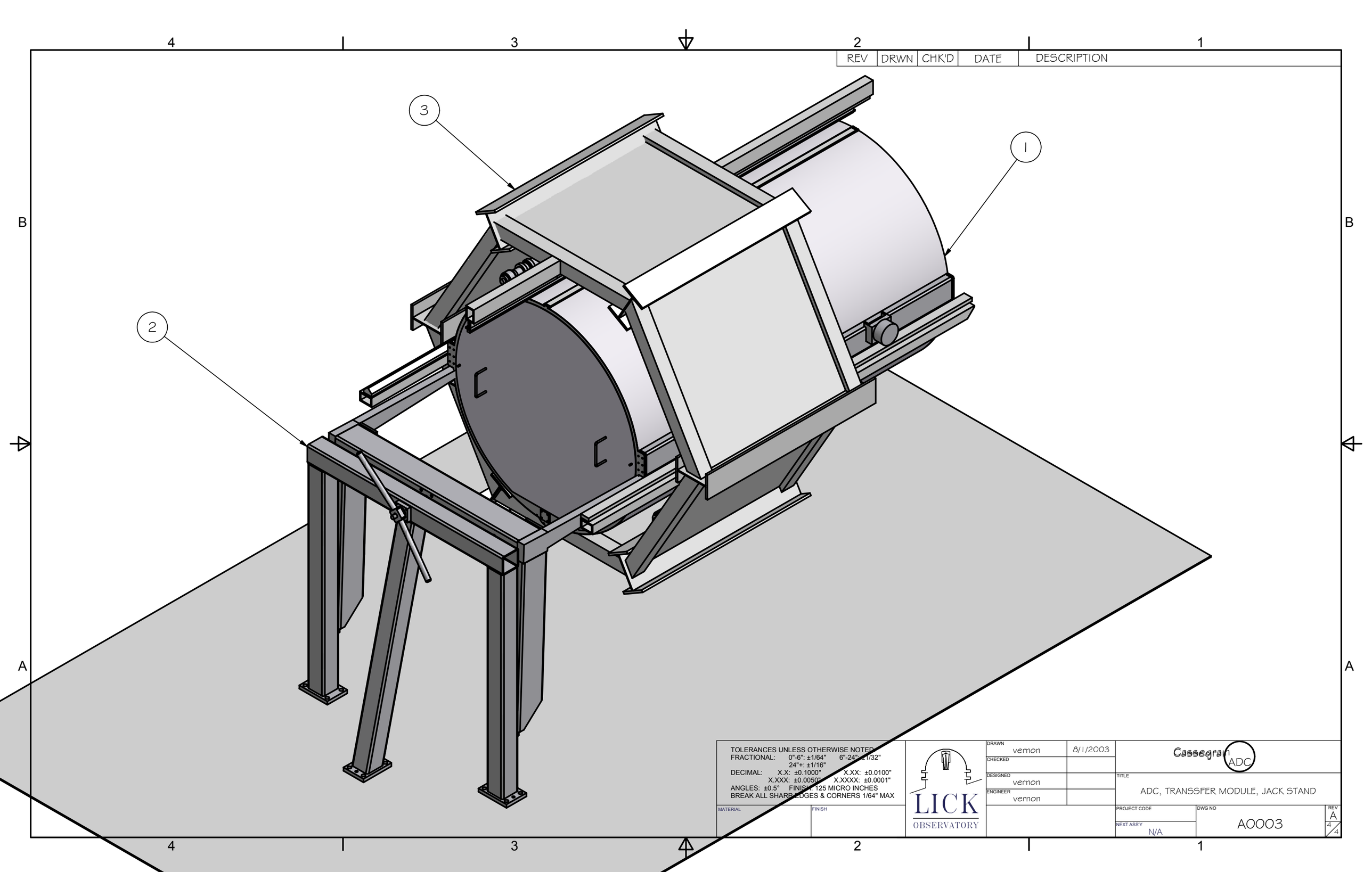
Cassegrain ADC

TITLE: ADC, TRANSSFER MODULE, JACK STAND

PROJECT CODE | DWG NO: A0003 | REV: A

NEXT ASS'Y: N/A

REV	DRWN	CHK'D	DATE	DESCRIPTION



TOLERANCES UNLESS OTHERWISE NOTED
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

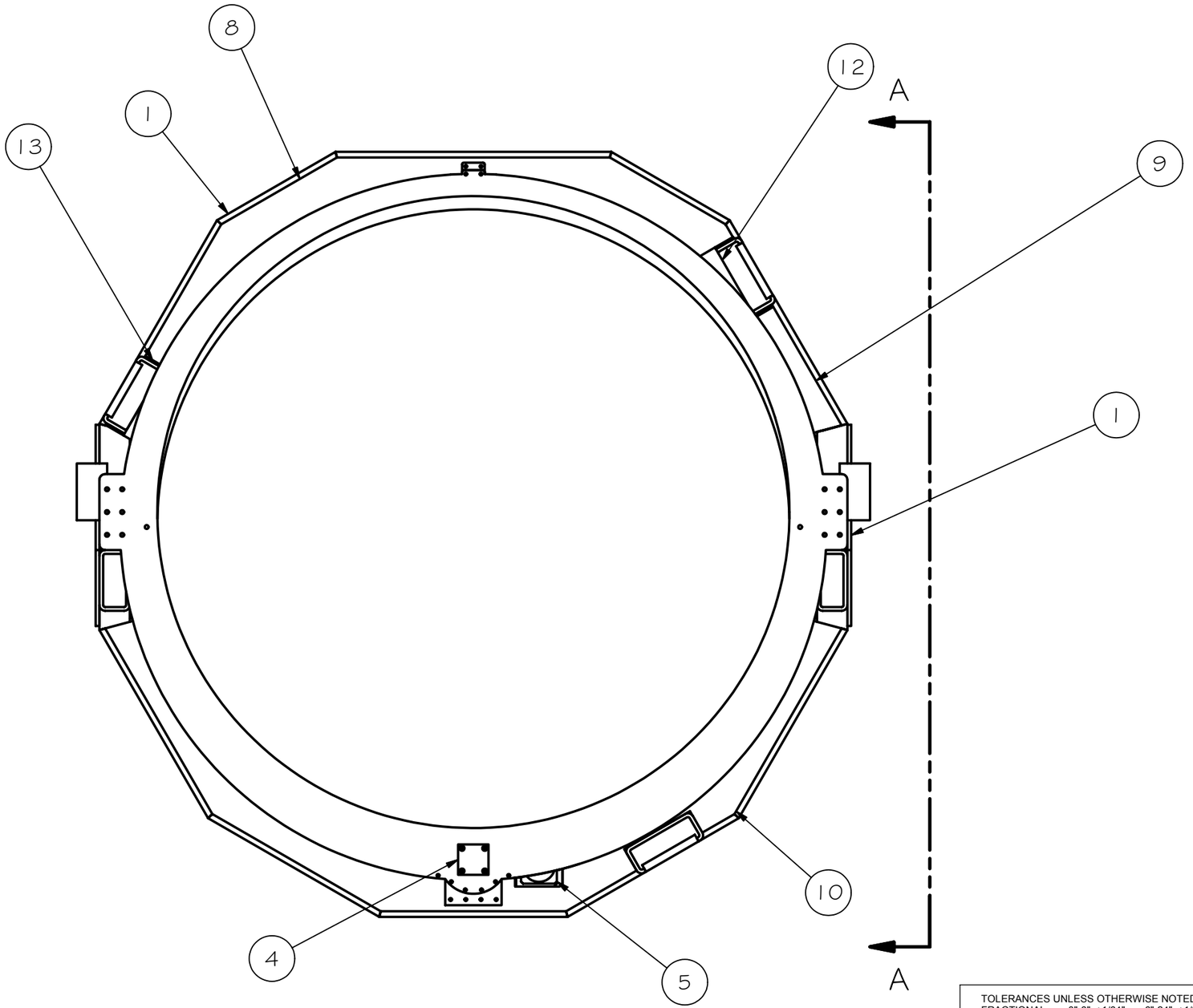
DRAWN	vernon	8/1/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

TITLE: ADC, TRANSSFER MODULE, JACK STAND

PROJECT CODE	DWG NO	REV
	A0003	A
NEXT ASS'Y: N/A		4/4

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 1 / 8

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A1100	FRAME ASSEMBLY
2	1	A1200	BALL SCREW ASSEMBLY
3	1	A1215	BALL SCREW CAP, FWD
4	1	A1220	BALL SCREW CAP, AFT
5	1	A1300	MOTOR / GEARBOX ASSEMBLY
6	1	A1513	CLADDING FRAME, FWD UPPER
7	1	A1516	CLADDING FRAME, FWD LOWER
8	1	A1519	CLADDING FRAME, AFT UPPER
9	1	A1523	CLADDING FRAME, AFT UPPER
10	1	A1526	CLADDING FRAME, AFT LOWER
11	1	A1527	CLADDING, MOTOR
12	1	A1535	CLADDING FRAME, HARDPOINT
13	1	A1536	CLADDING FRAME, HARDPOINT
14	1	ENCODER	AGILENT HEDL-5540#E06
15	1	BELT	PIC BELT EPS0070G15mN

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN vernon 9/2/2003
CHECKED
DESIGNED vernon
ENGINEER vernon

Cassegrain ADC

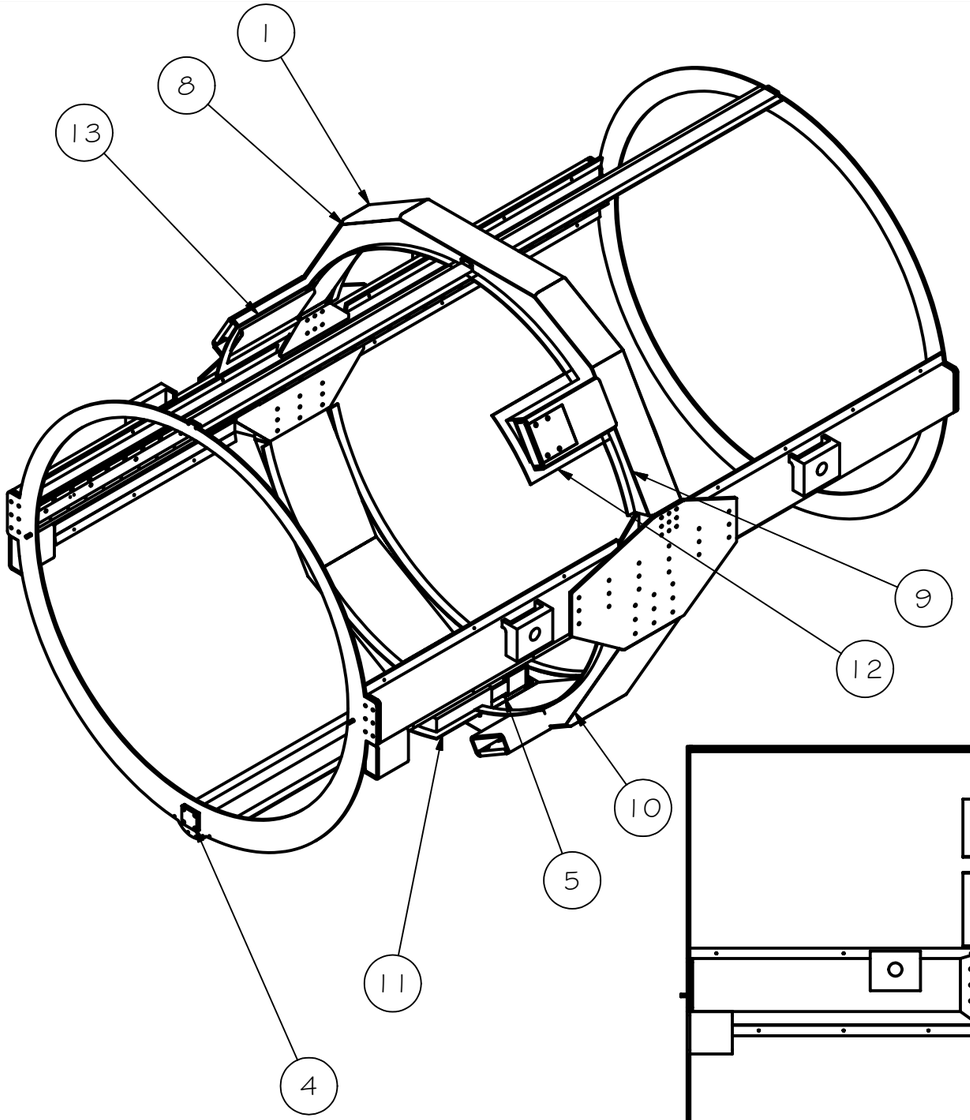
TITLE: BASE / DRIVE ASSEMBLY

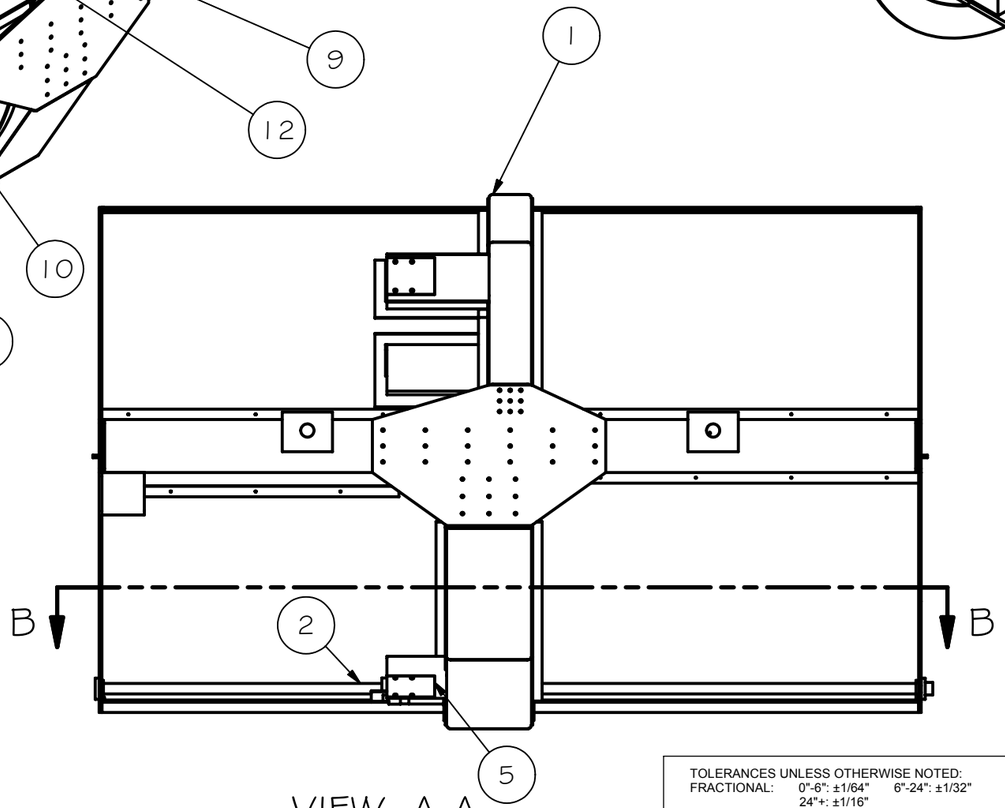
PROJECT CODE | DWG NO A1000 | REV A

NEXT ASS'Y A0001

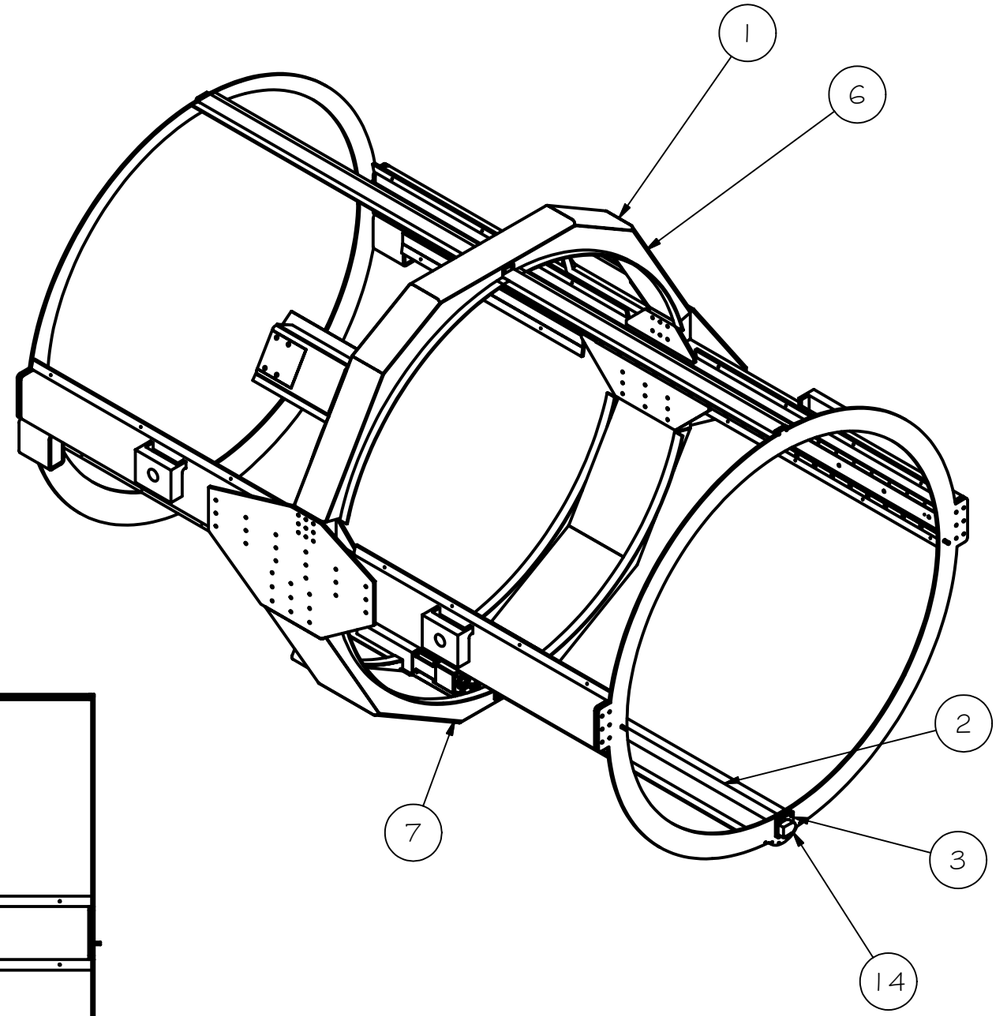
1 / 3

REV	DRWN	CHK'D	DATE	DESCRIPTION





VIEW A-A
SCALE 0.07 : 1



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	9/2/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

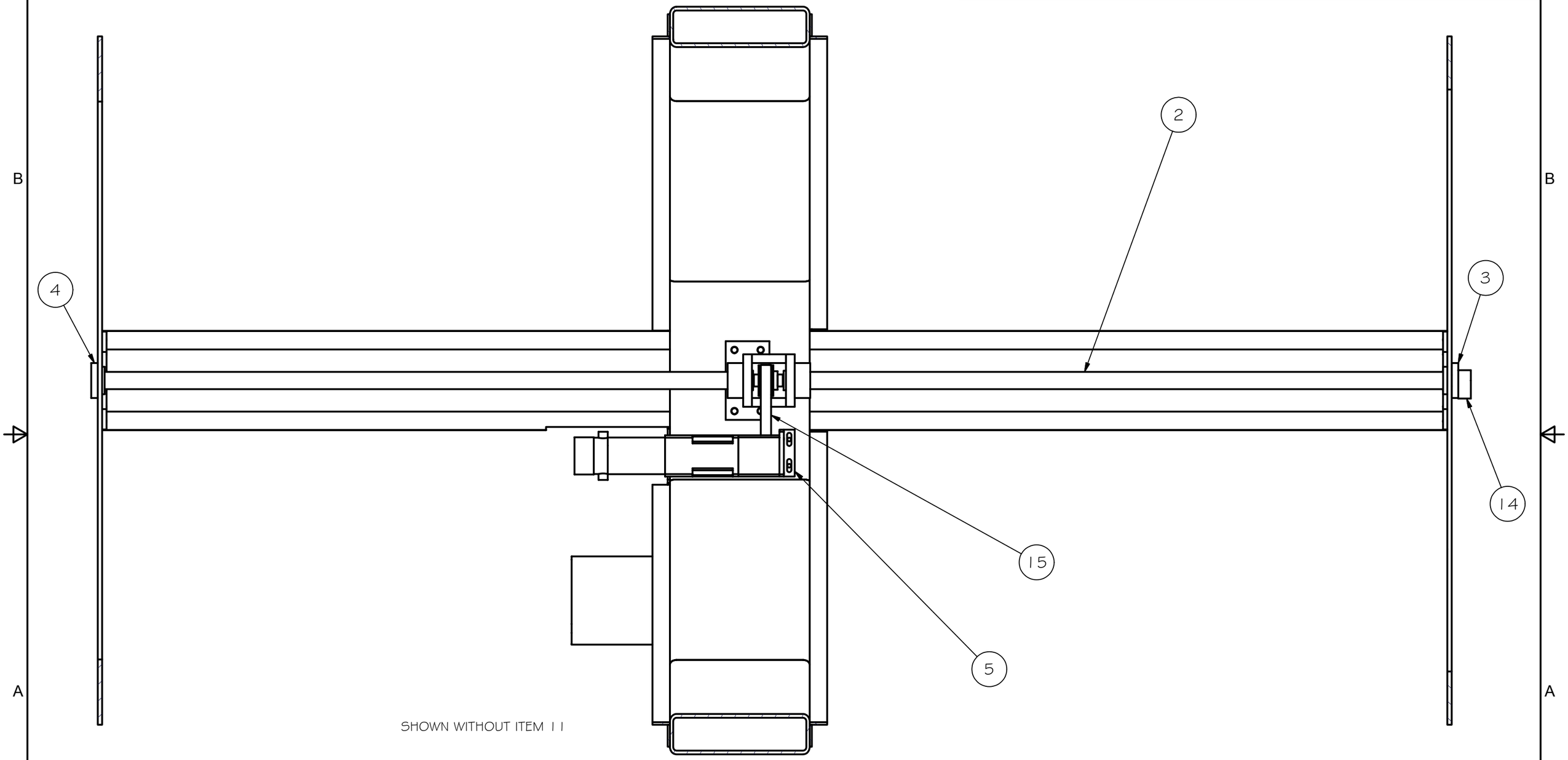
Cassegrain ADC

TITLE: BASE / DRIVE ASSEMBLY

PROJECT CODE | DWG NO: A1000 | REV: A | SHEET: 2/3

NEXT ASS'Y: A0001

REV	DRWN	CHK'D	DATE	DESCRIPTION



SHOWN WITHOUT ITEM 11

SECTION B-B
SCALE 0.19 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

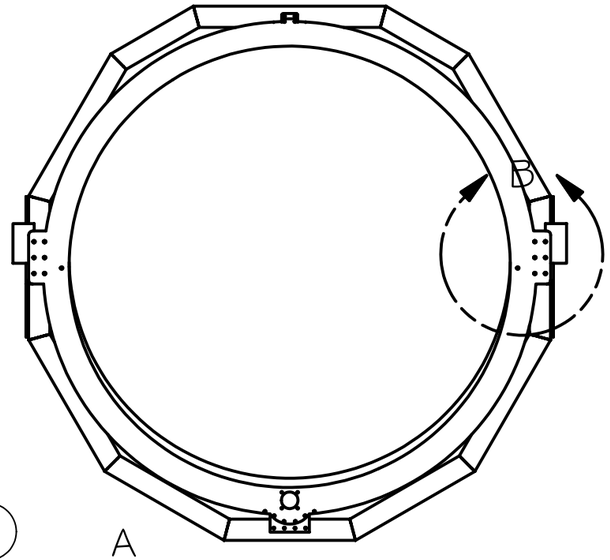
DRAWN vernon 9/2/2003
CHECKED
DESIGNED vernon
ENGINEER vernon

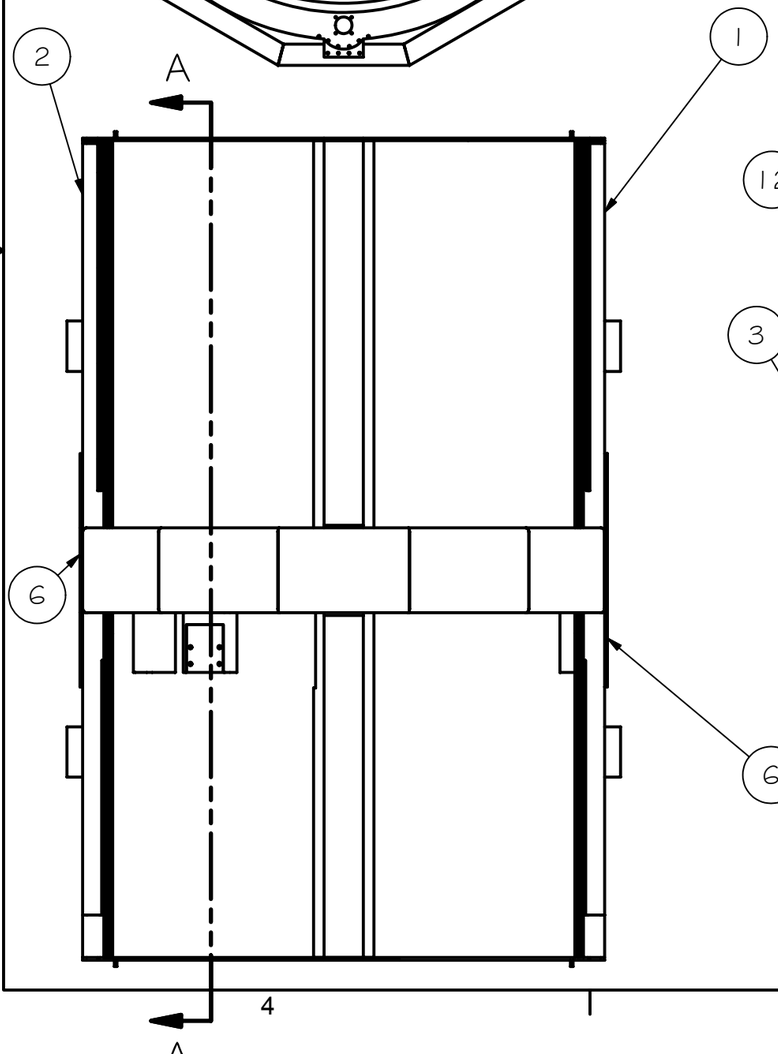
Cassegrain ADC

TITLE: BASE / DRIVE ASSEMBLY

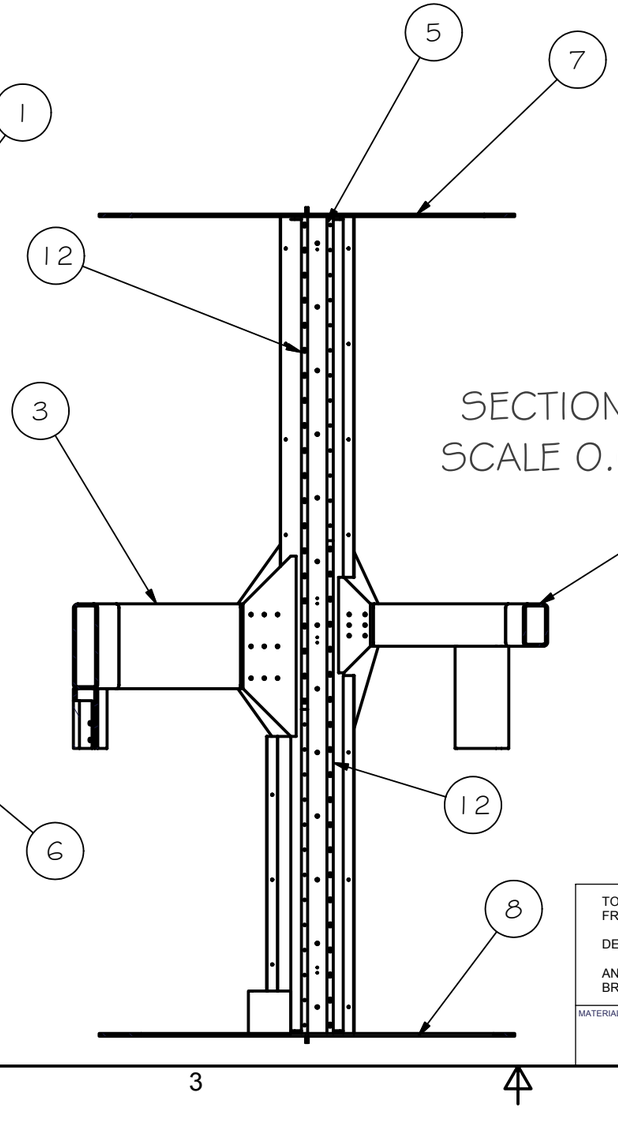
PROJECT CODE | DWG NO A1000 | REV A
NEXT ASS'Y A0001 | 3/3

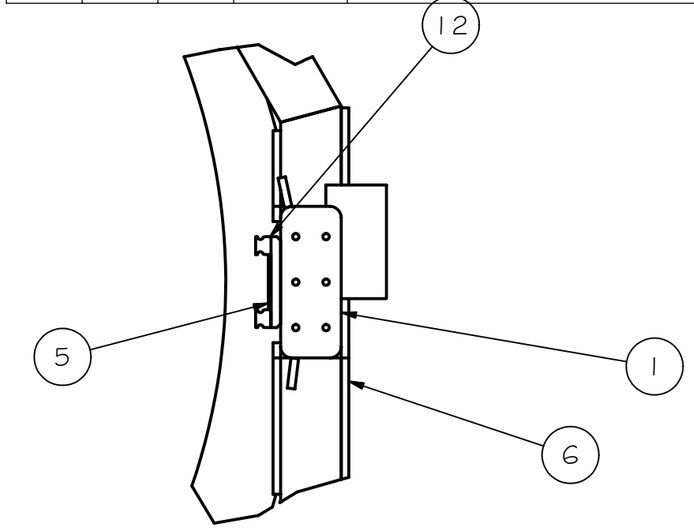
REV	DRWN	CHK'D	DATE	DESCRIPTION





SECTION A-A
SCALE 0.07 : 1





SHOWN WITHOUT FRONT RING, ITEM 7
DETAIL B
SCALE 1 / 5

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A1110	SUPPORT WELDMENT, LEFT
2	1	A1130	SUPPORT WELDMENT, RIGHT
3	1	A1150	FRAME WELDMENT, LOWER
4	1	A1160	FRAME WELDMENT, UPPER
5	2	A1170	RAIL SPACER
6	2	A1171	GUSSET, FRAME
7	1	A1172	RING, FWD
8	1	A1173	RING, AFT
9	1	A1528	BALL SCREW SHIELD, FWD
10	1	A1529	BALL SCREW SHIELD, AFT
11	2	A1530	FRAME STIFFENER
12	4	THK_SHS-20-rail	THK SHS-20 RAIL

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

QTY: 1

DRAWN	vernon	7/22/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

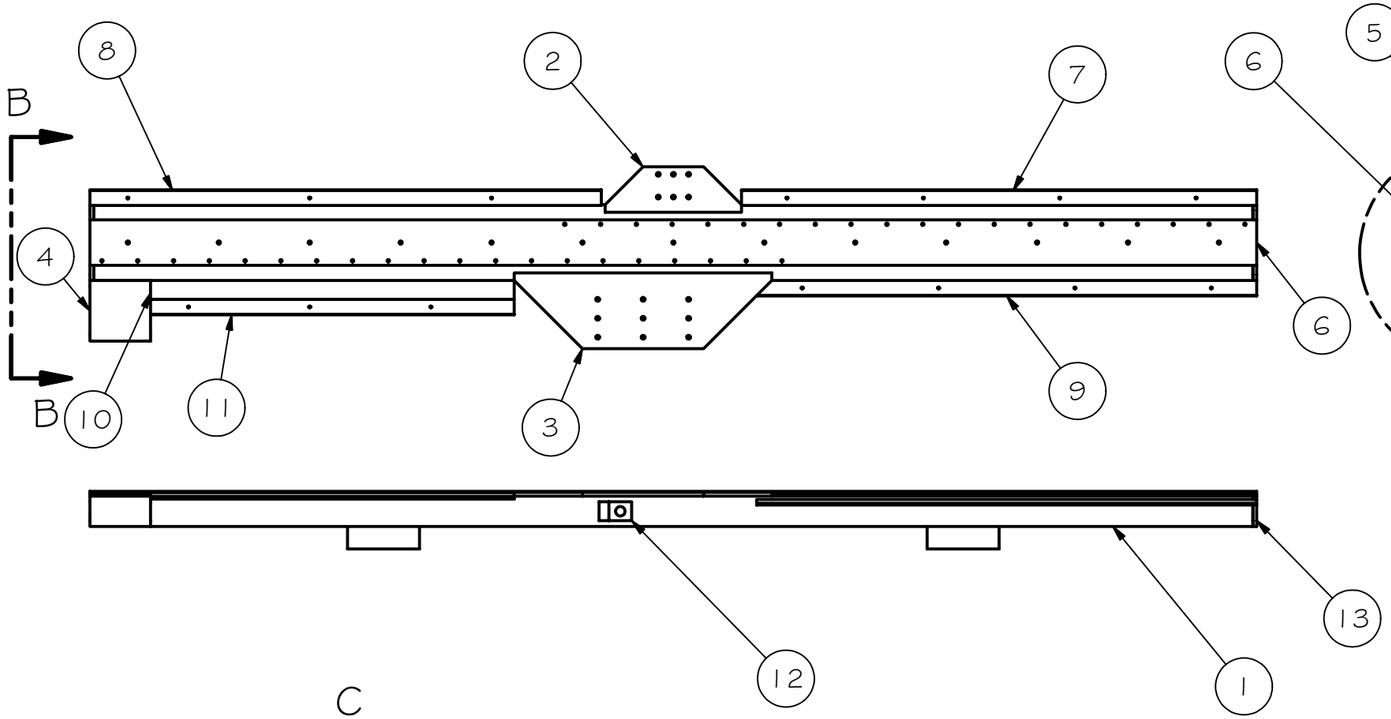
Cassegrain ADC

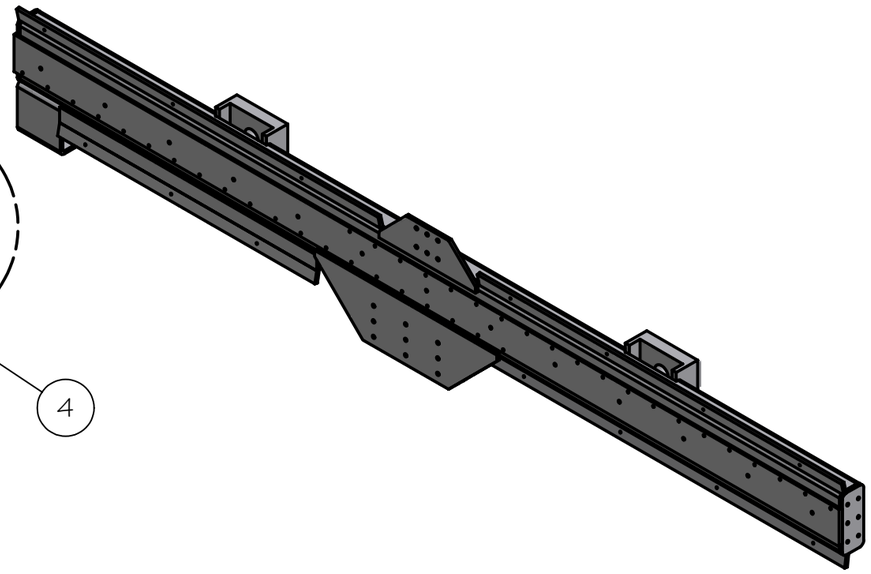
TITLE: FRAME ASSEMBLY

PROJECT CODE | DWG NO: A1100 | REV: A | 1/2

NEXT ASS'Y: A1000

REV	DRWN	CHK'D	DATE	DESCRIPTION





Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A1111	SUPPORT TUBE, LEFT
2	1	A1112	GUSSETT, UPPER
3	1	A1113	GUSSETT, LOWER
4	1	A1114	PICKUP TUBE
5	2	A1115	ROLLER MOUNT
6	1	A1116	RAIL BASE
7	1	A1117	CLADDING STRIP 1
8	1	A1118	CLADDING STRIP 2
9	1	A1119	CLADDING STRIP 3
10	1	A1120	CLADDING STRIP 4
11	1	A1121	CLADDING STRIP 5
12	1	A1122	PICKUP HOLE
13	2	A1123	TUBE END CAP

NOTES:
1) COMPLETE ALL WELDS
2) STRESS RELIEVE
3) BLANCHARD GRIND SURFACE OF ITEM 6
4) MACHINE HOLES

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	9/3/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

QTY: 1

Cassegrain ADC

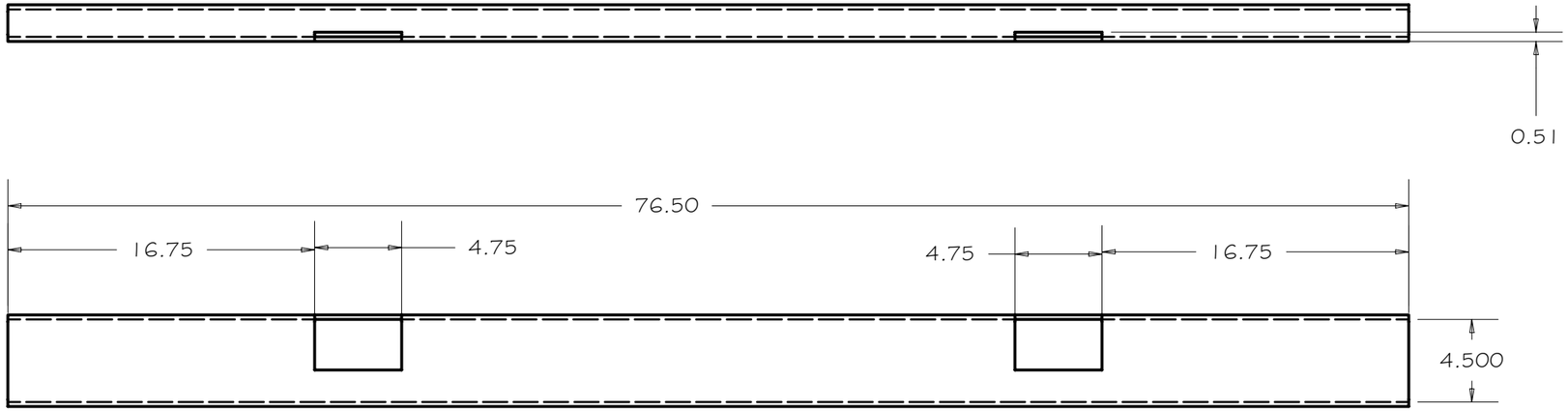
TITLE: SUPPORT WELDMENT, LEFT

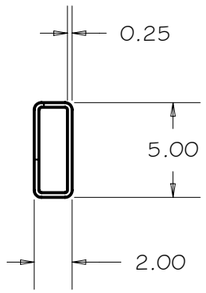
PROJECT CODE | DWG NO: A1110 | REV: A

NEXT ASS'Y: A1100

1/4

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL TUBE
FINISH:

LICK OBSERVATORY

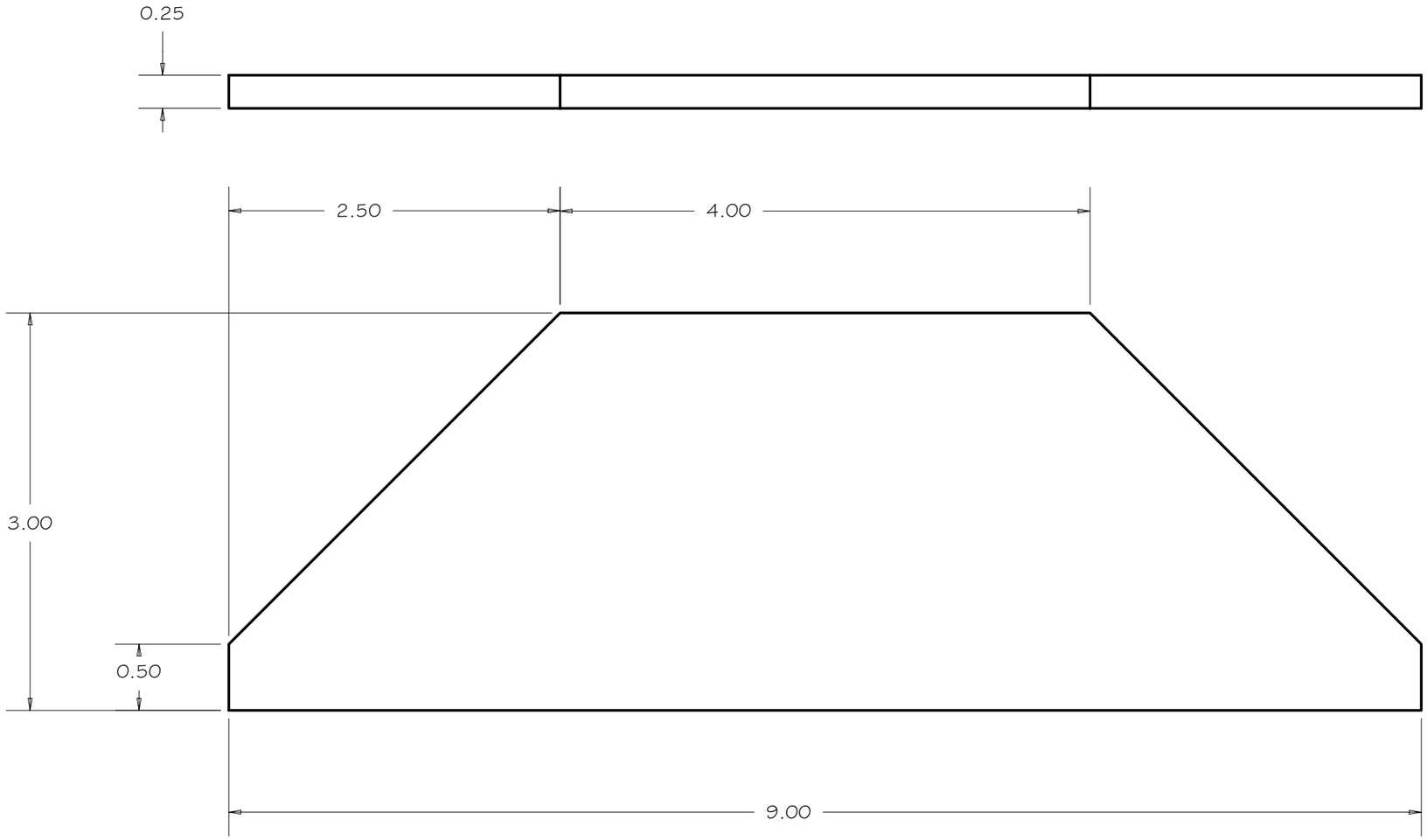
DRAWN: vernon 9/3/2003
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

Cassegrain ADC

TITLE: SUPPORT TUBE, LEFT

PROJECT CODE:
NEXT ASS'Y: A1110
DWG NO: A1111
REV: A
SHEET: 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 1 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

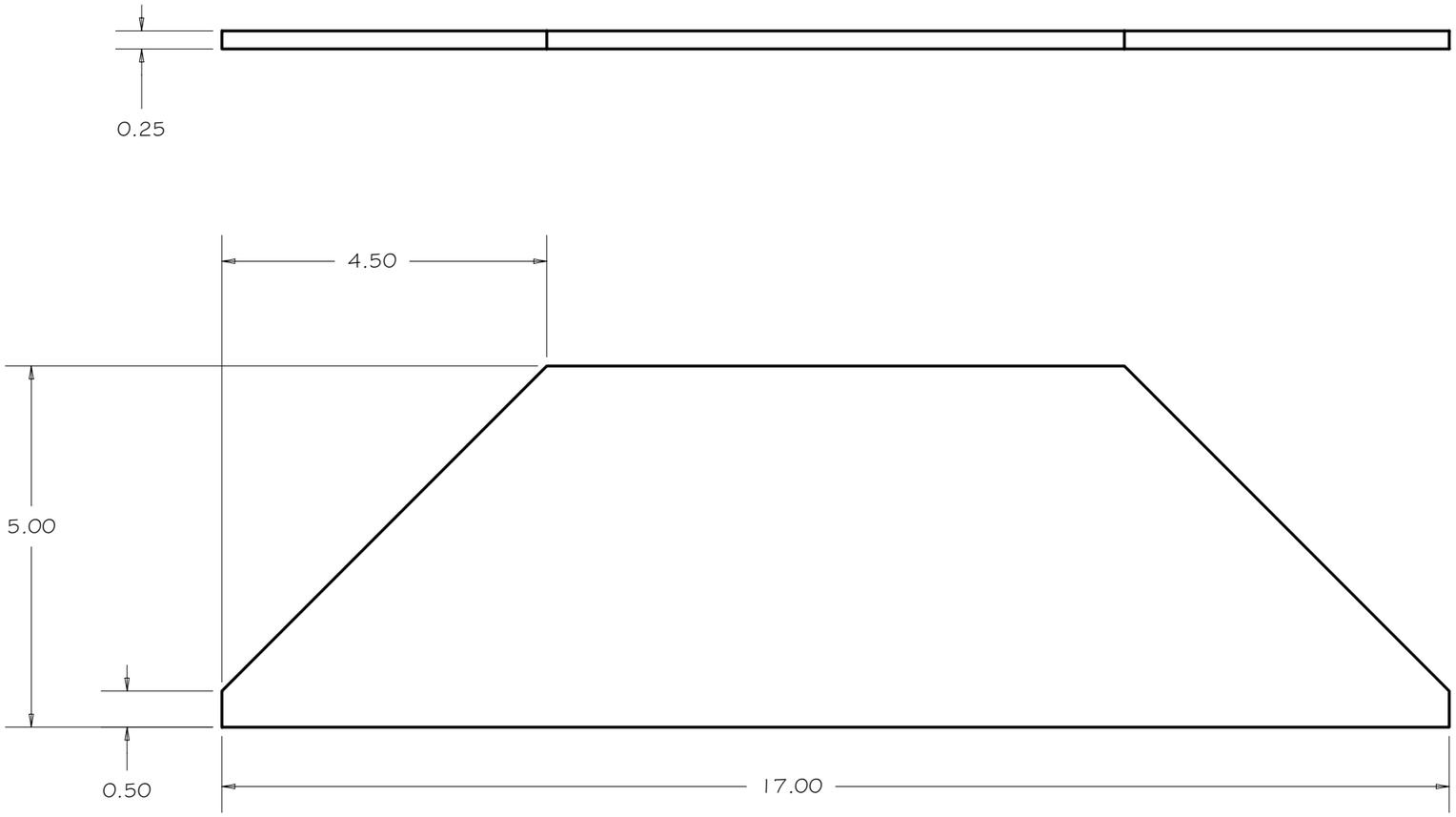
QTY: 2

Cassegrain ADC

TITLE: GUSSETT, UPPER

PROJECT CODE:
NEXT ASS'Y: A1110, A1130
DWG NO: A1112
REV: A
1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 1 / 2

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

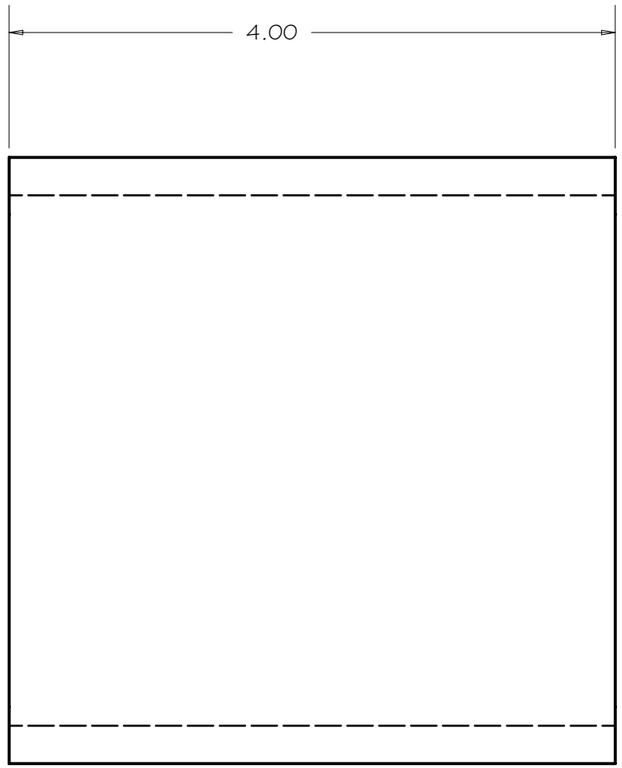
QTY: 1

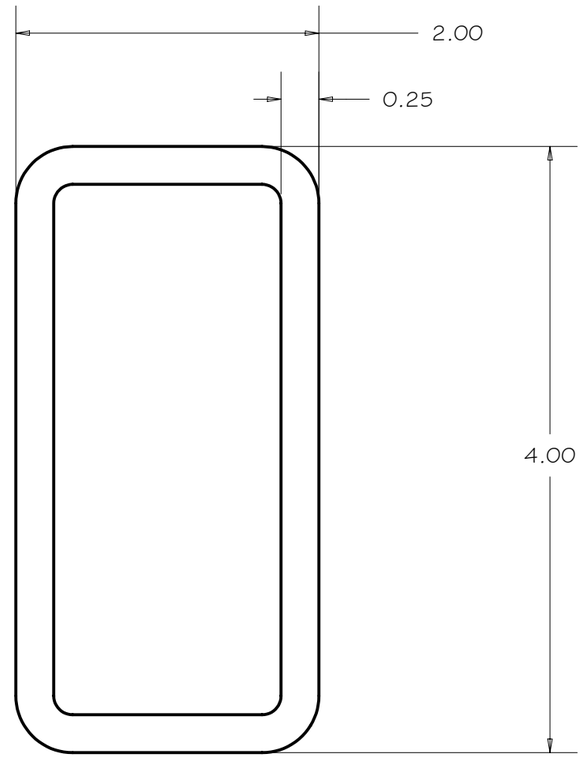
Cassegrain ADC

TITLE: GUSSETT, LOWER

PROJECT CODE:
DWG NO: A1113
REV: A
NEXT ASS'Y: A1110, A1130
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





SCALE 1 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL TUBE
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

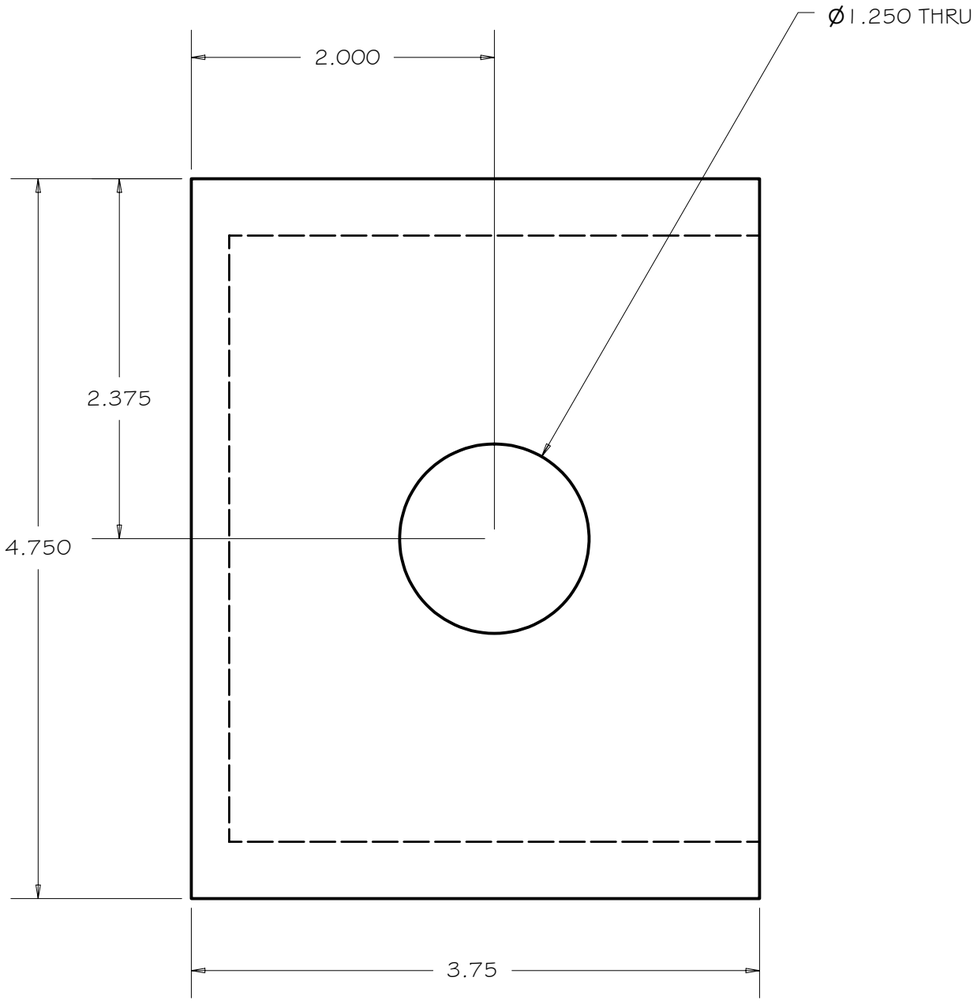
QTY: 2

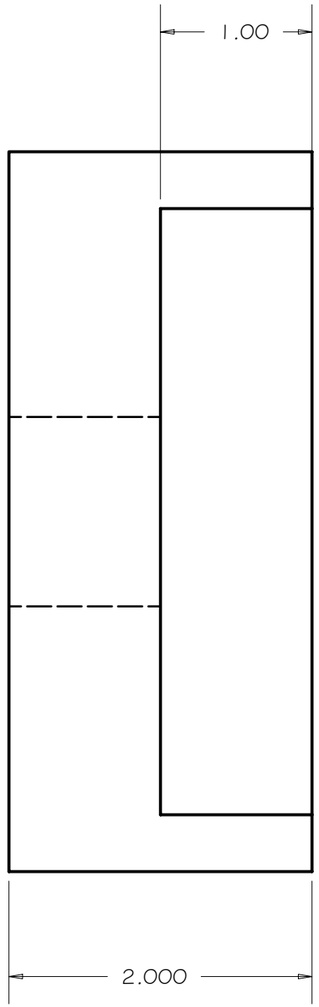
Cassegrain ADC

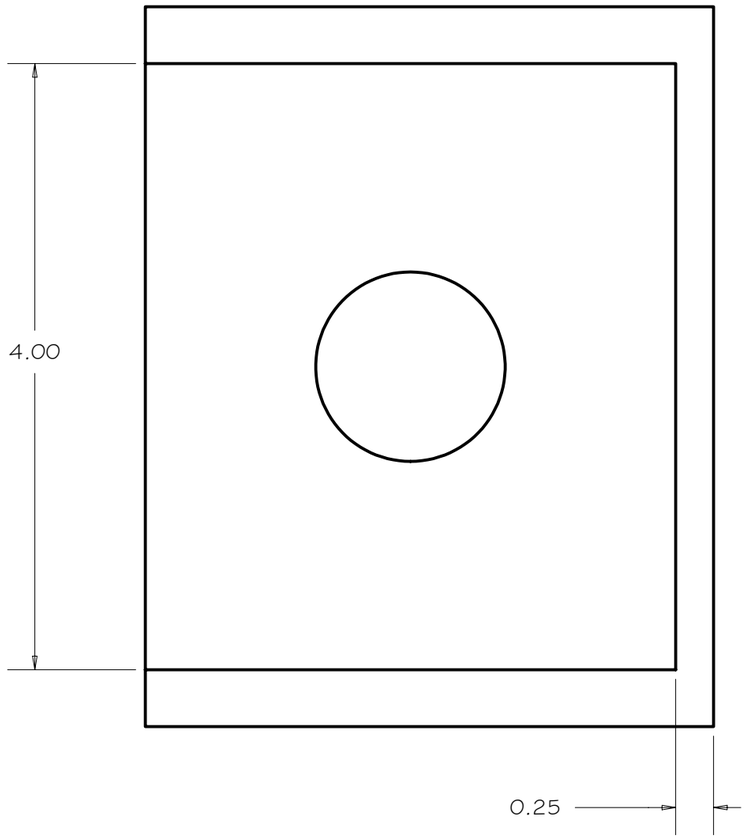
TITLE: PICKUP TUBE

PROJECT CODE:
NEXT ASS'Y: A1110, A1130
DWG NO: A1114
REV: A
SHEET: 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







SCALE 1 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

QTY: 4

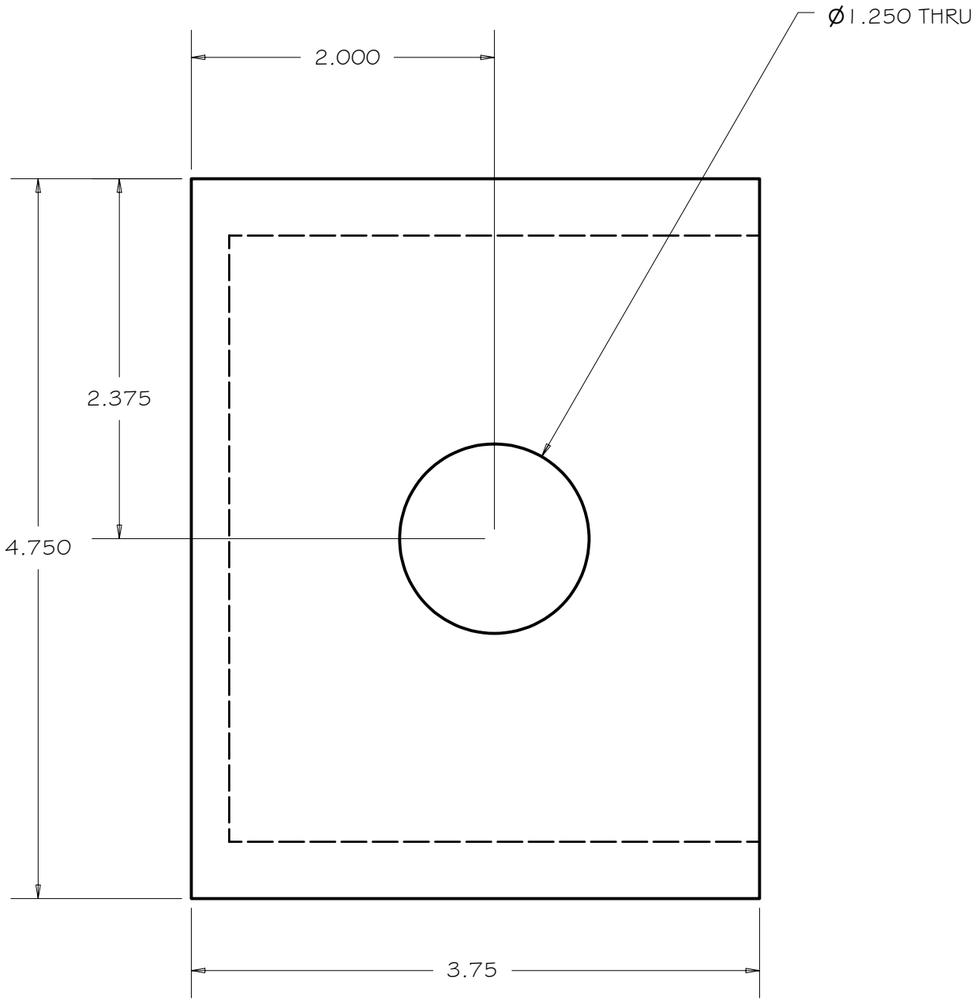
DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

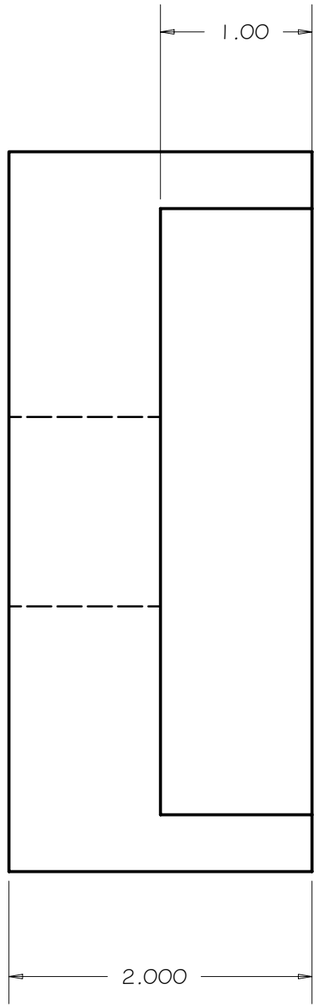
Cassegrain ADC

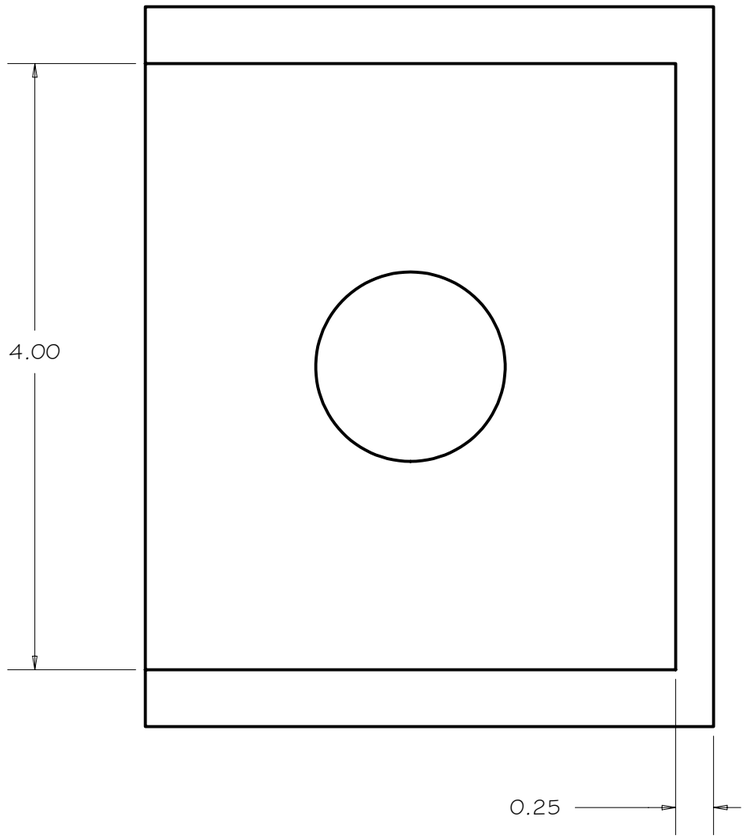
TITLE: ROLLER MOUNT

PROJECT CODE:
NEXT ASS'Y: A1110, A1130
DWG NO: A1115
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







SCALE 1 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

QTY: 4

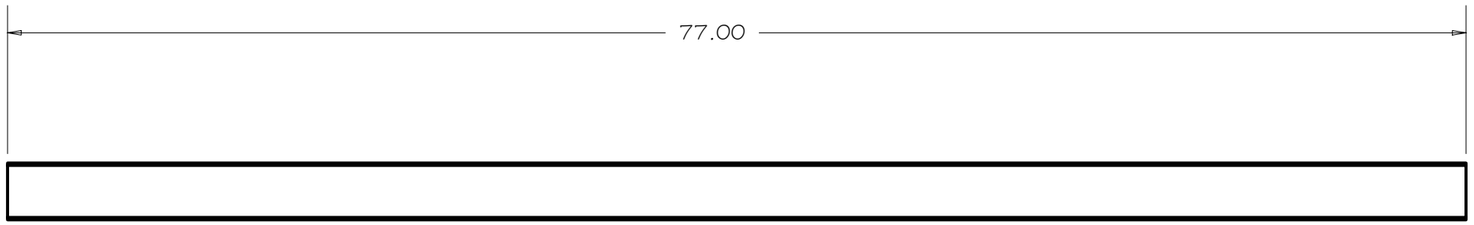
DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

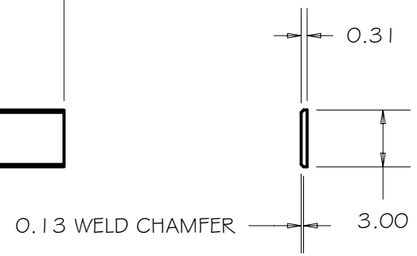
Cassegrain ADC

TITLE: ROLLER MOUNT

PROJECT CODE:
NEXT ASS'Y: A1110, A1130
DWG NO: A1115
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

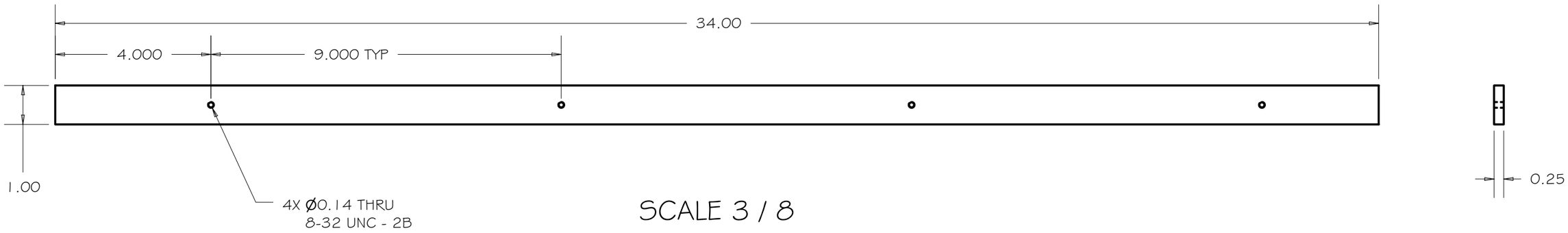
QTY: 2

Cassegrain ADC

TITLE: RAIL BASE

PROJECT CODE:
NEXT ASS'Y: A1110, A1130
DWG NO: A1116
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 3 / 8

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

QTY: 2

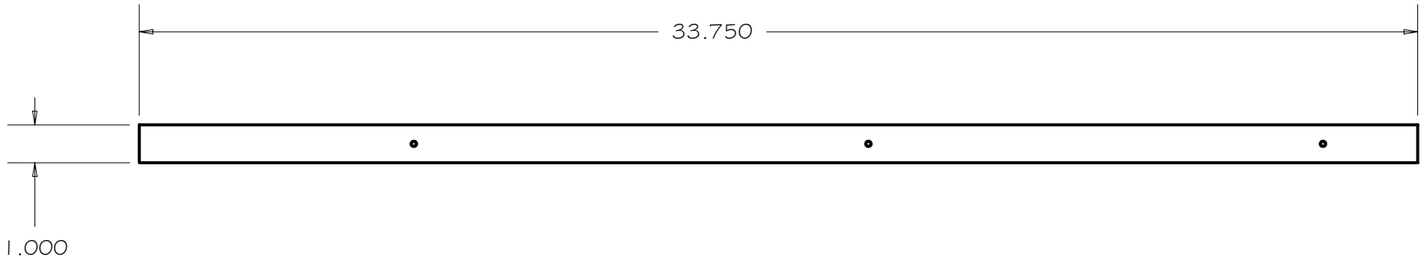
DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

Cassegrain ADC

TITLE: CLADDING STRIP, 1

PROJECT CODE:
NEXT ASS'Y: A1110, A1130
DWG NO: A1117
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 1 / 4

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

QTY: 2

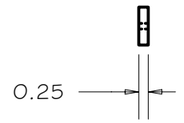
Cassegrain ADC

TITLE: CLADDING STRIP 2

PROJECT CODE:
NEXT ASS'Y: A1110, A1130
DWG NO: A1118
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION

SCALE 1 / 4



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL	

LICK OBSERVATORY

DRAWN	vernon	3/19/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

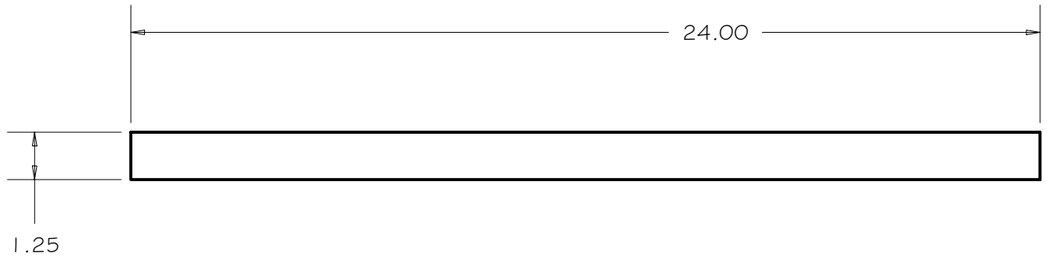
QTY: 2

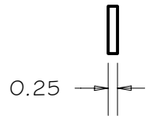
Cassegrain ADC

TITLE: CLADDING STRIP3

PROJECT CODE	DWG NO	REV
NEXT ASS'Y: A1110, A1130	A1119	A

REV	DRWN	CHK'D	DATE	DESCRIPTION





SCALE 1 / 4

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

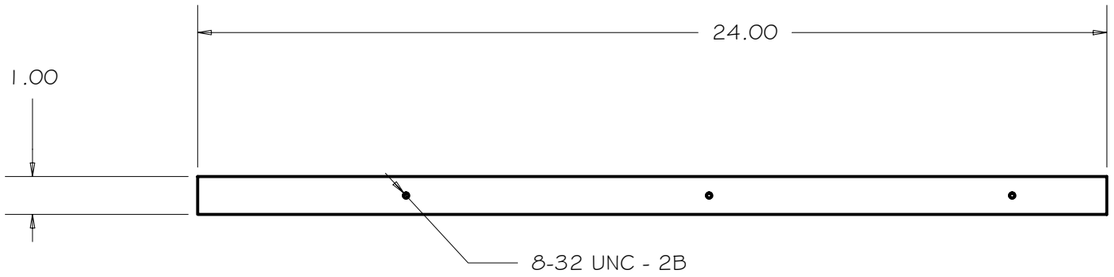
QTY: 2

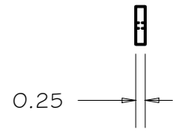
Cassegrain ADC

TITLE: CLADDING STRIP 4

PROJECT CODE:
NEXT ASS'Y: A1110, A1130
DWG NO: A1120
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





SCALE 1 / 4

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

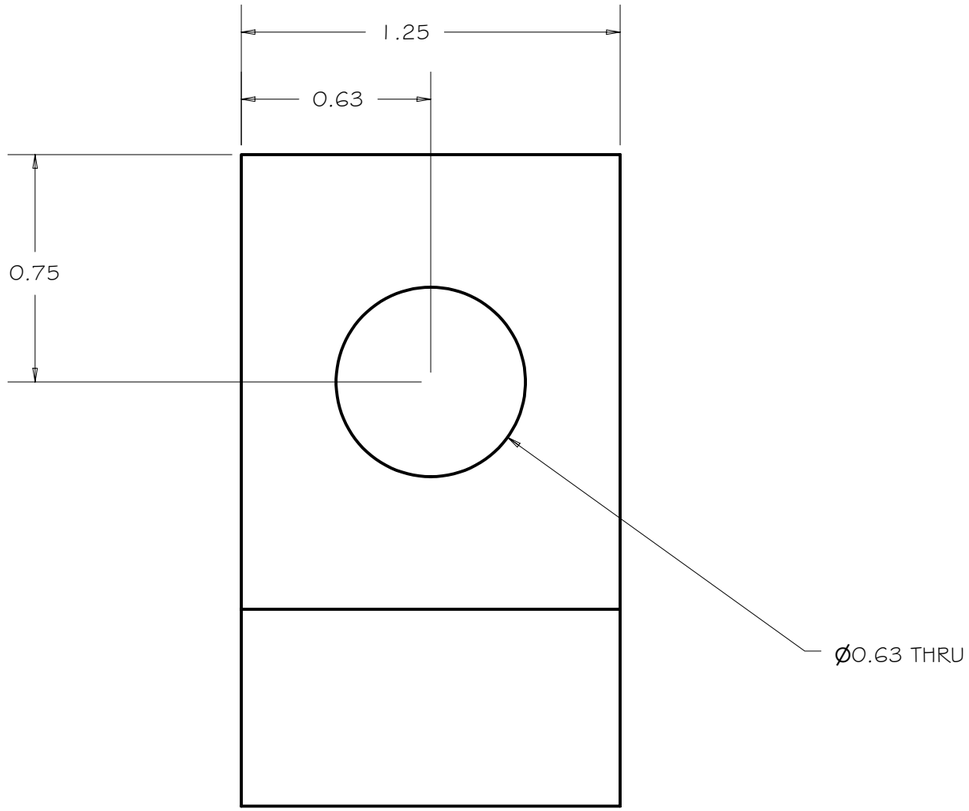
QTY: 2

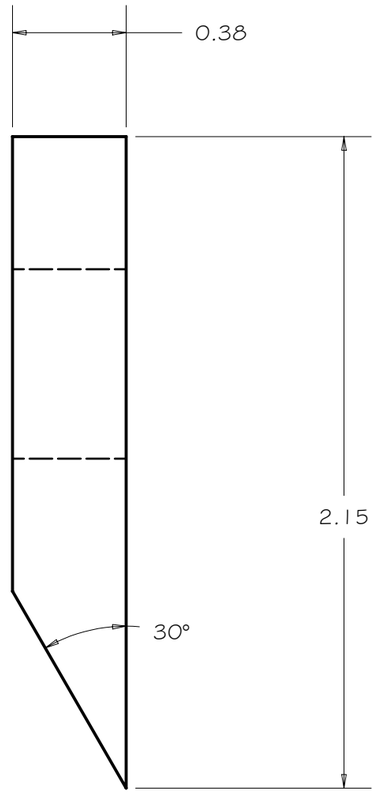
Cassegrain ADC

TITLE: CLADDING STRIP 5

PROJECT CODE:
NEXT ASS'Y: A1110, A1130
DWG NO: A1121
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





SCALE 2 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL	

LICK OBSERVATORY

DRAWN	vernon	3/19/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

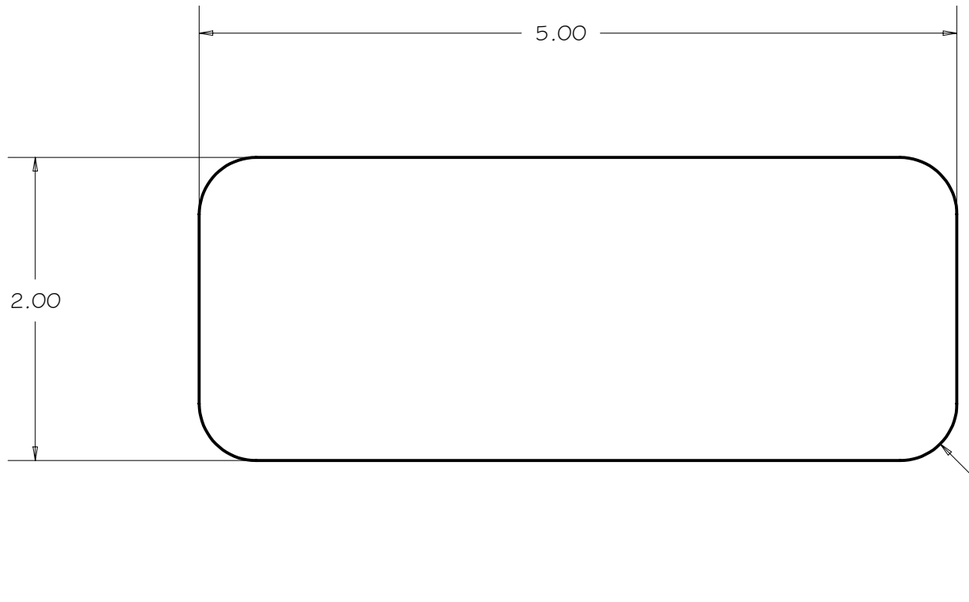
QTY: 2

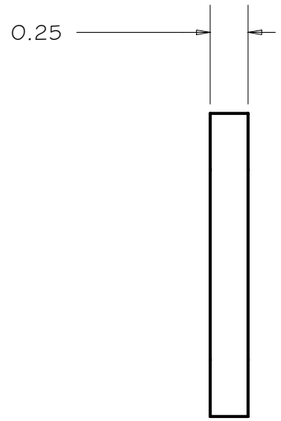
Cassegrain ADC

TITLE: PICKUP HOLE

PROJECT CODE	DWG NO	REV
NEXT ASS'Y: A1110, A1130	A1122	A 1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

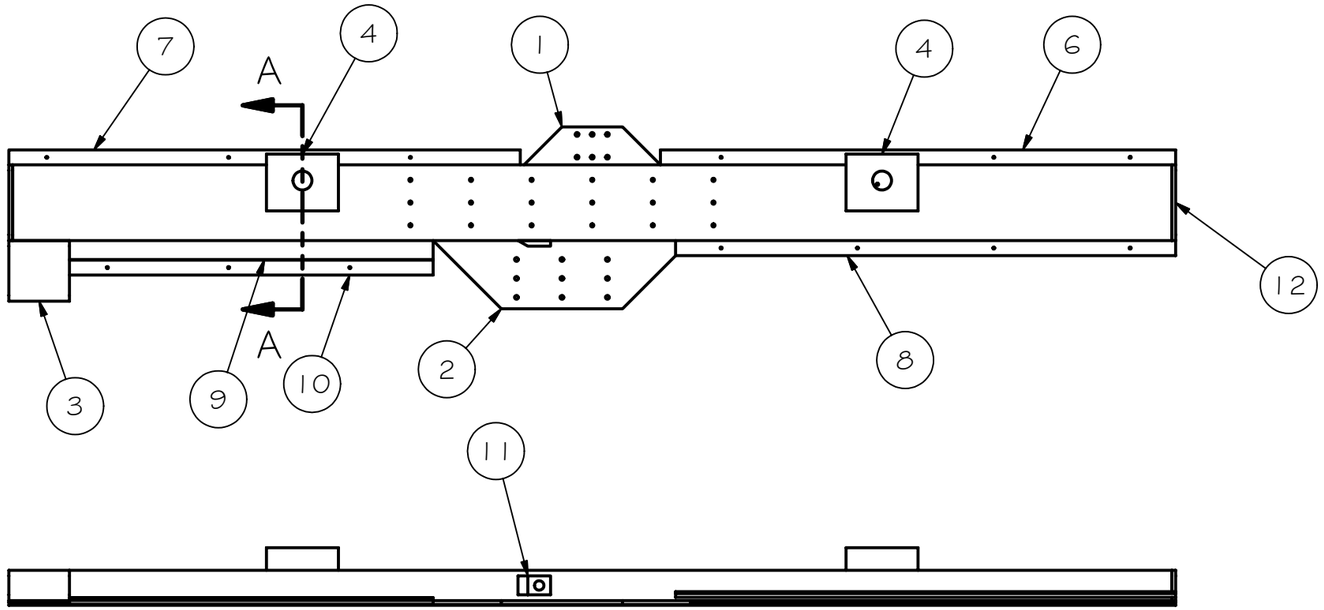
QTY: 2

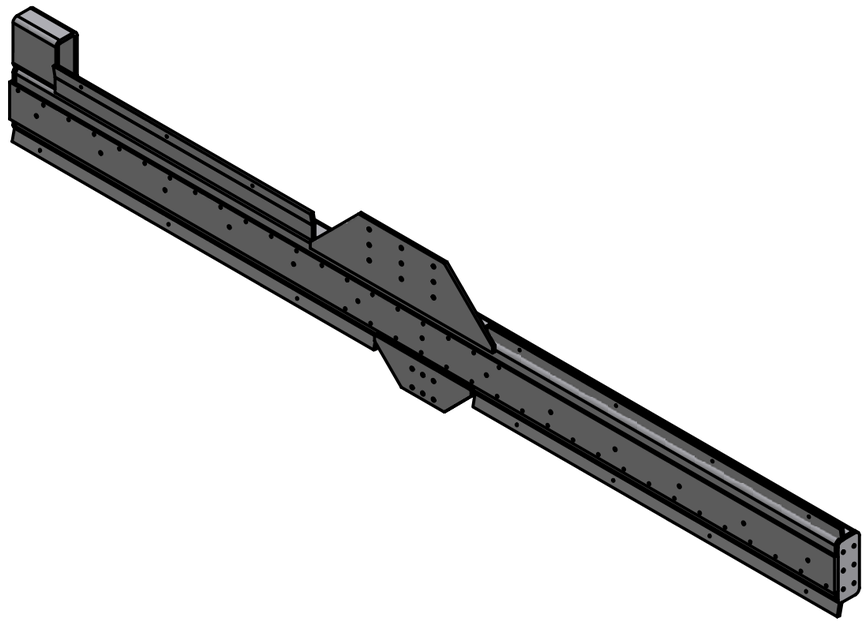
Cassegrain ADC

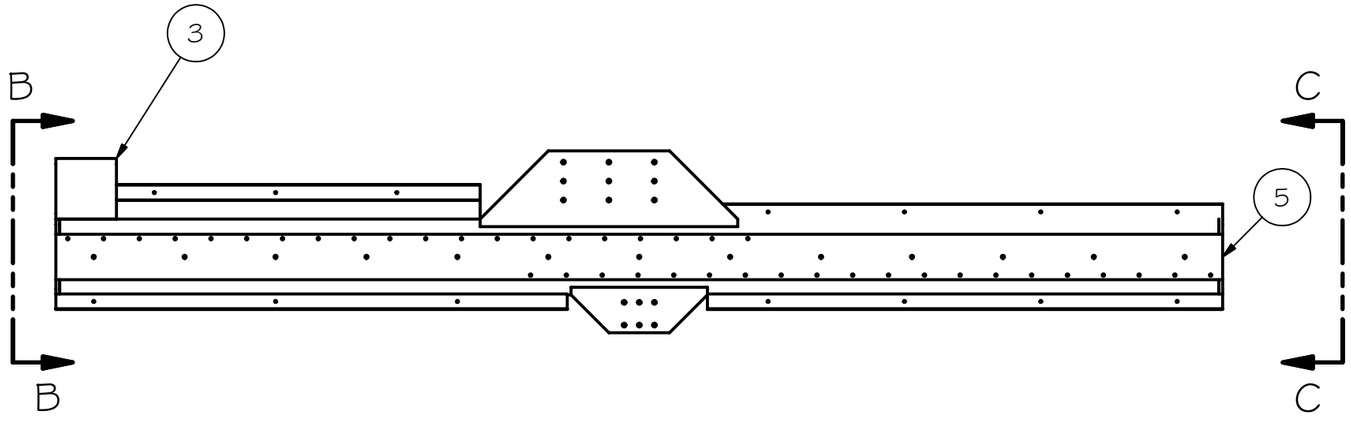
TITLE: TUBE END CAP

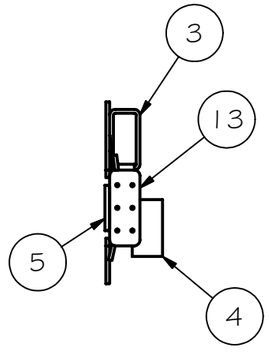
PROJECT CODE:
DWG NO: A1123
REV: A
NEXT ASS'Y: A1110, A1130
1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION









Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A1112	GUSSETT, UPPER
2	1	A1113	GUSSETT, LOWER
3	1	A1114	PICKUP TUBE
4	2	A1115	ROLLER MOUNT
5	1	A1116	RAIL BASE
6	1	A1117	CLADDING STRIP 1
7	1	A1118	CLADDING STRIP 2
8	1	A1119	CLADDING STRIP 3
9	1	A1120	CLADDING STRIP 4
10	1	A1121	CLADDING STRIP 5
11	1	A1122	PICKUP HOLE
12	2	A1123	TUBE END CAP
13	1	A1131	SUPPORT TUBE, RIGHT

NOTES:
1) COMPLETE ALL WELDS
2) STRESS RELIEVE
3) BLANCHARD GRIND SURFACE OF ITEM 5
4) MACHINE HOLES

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN vernon 8/14/2003
CHECKED
DESIGNED vernon
ENGINEER

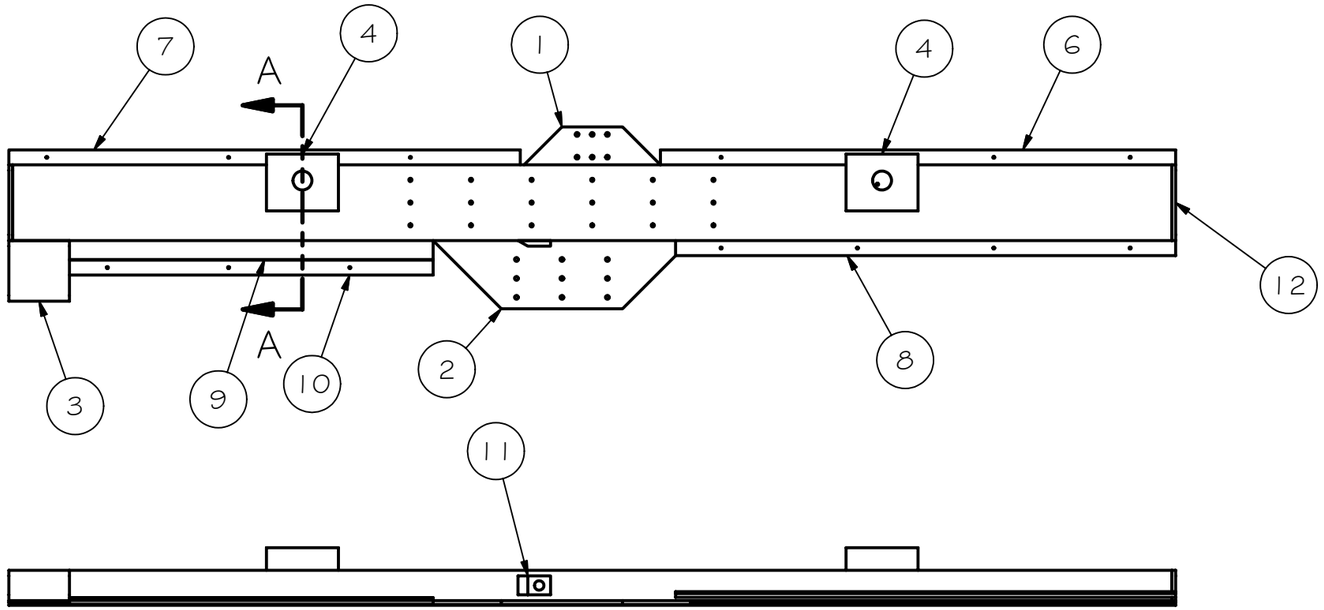
Cassegrain ADC

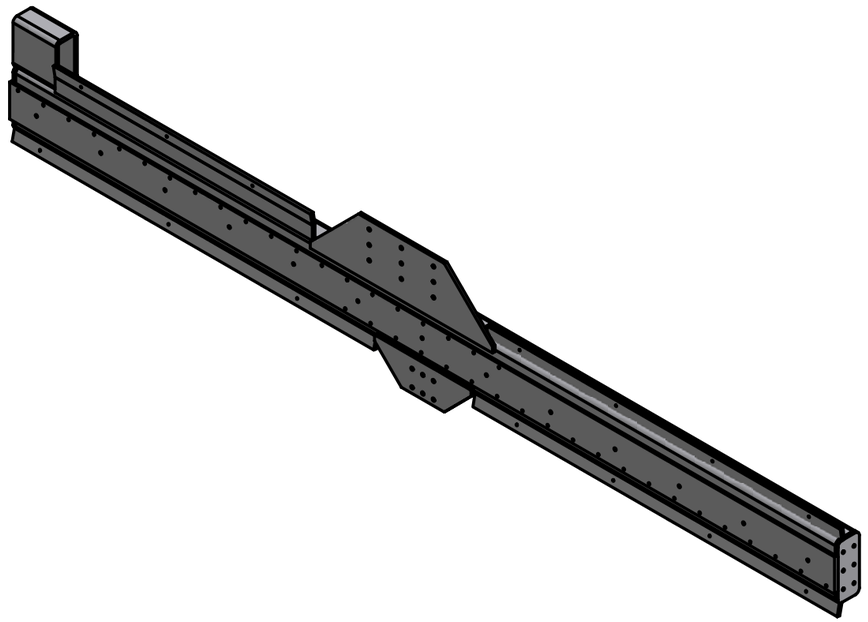
TITLE: SUPPORT WELDMENT, RIGHT

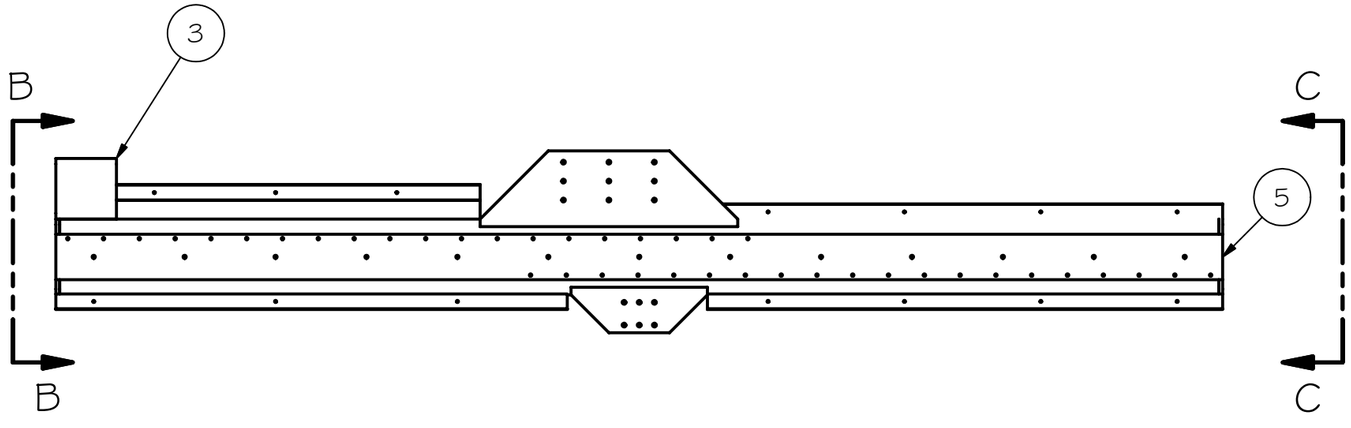
PROJECT CODE | DWG NO A1130 | REV A

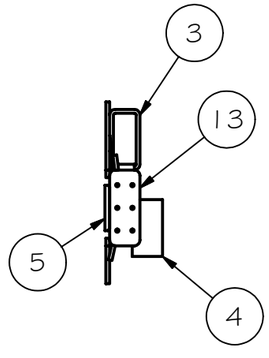
NEXT ASS'Y A1100 | 1/4

REV	DRWN	CHK'D	DATE	DESCRIPTION









Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A1112	GUSSETT, UPPER
2	1	A1113	GUSSETT, LOWER
3	1	A1114	PICKUP TUBE
4	2	A1115	ROLLER MOUNT
5	1	A1116	RAIL BASE
6	1	A1117	CLADDING STRIP 1
7	1	A1118	CLADDING STRIP 2
8	1	A1119	CLADDING STRIP 3
9	1	A1120	CLADDING STRIP 4
10	1	A1121	CLADDING STRIP 5
11	1	A1122	PICKUP HOLE
12	2	A1123	TUBE END CAP
13	1	A1131	SUPPORT TUBE, RIGHT

NOTES:
1) COMPLETE ALL WELDS
2) STRESS RELIEVE
3) BLANCHARD GRIND SURFACE OF ITEM 5
4) MACHINE HOLES

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN vernon 8/14/2003
CHECKED
DESIGNED vernon
ENGINEER

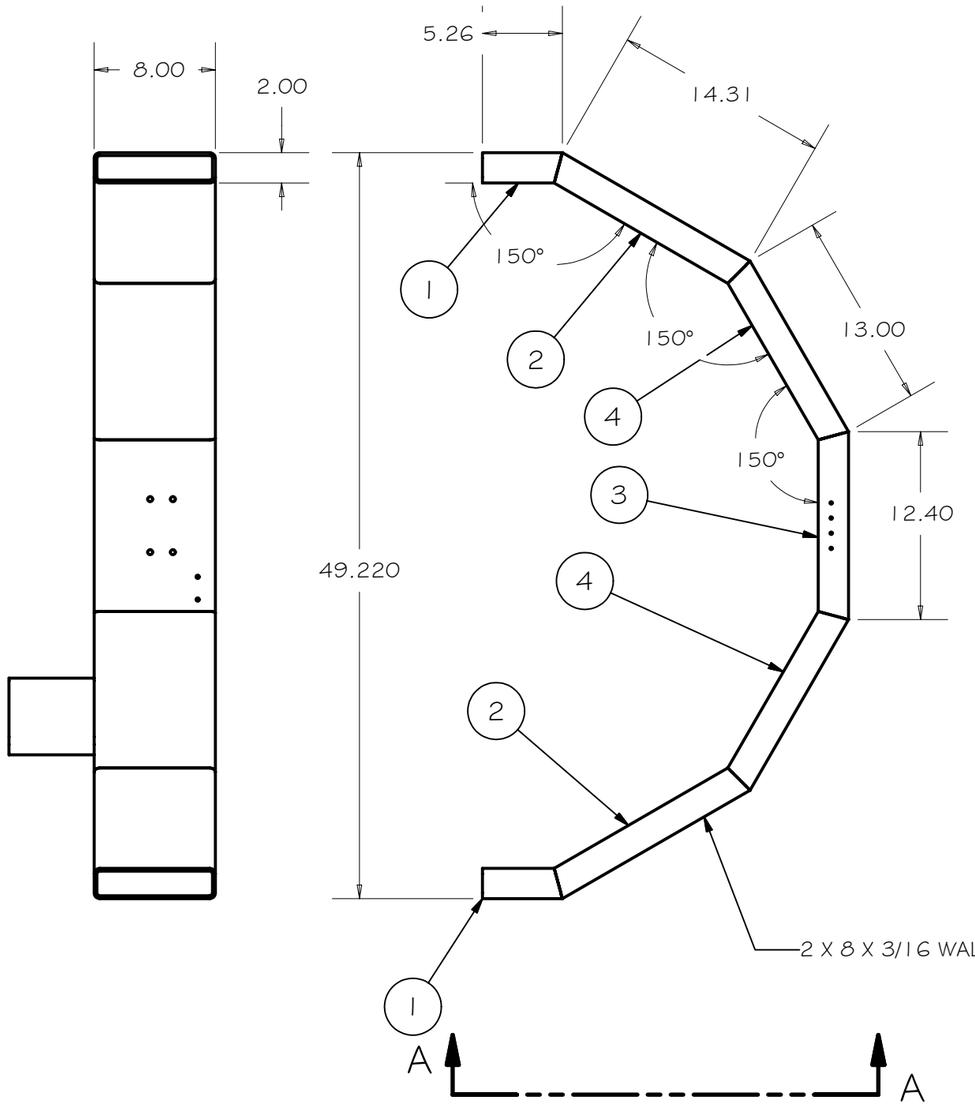
Cassegrain ADC

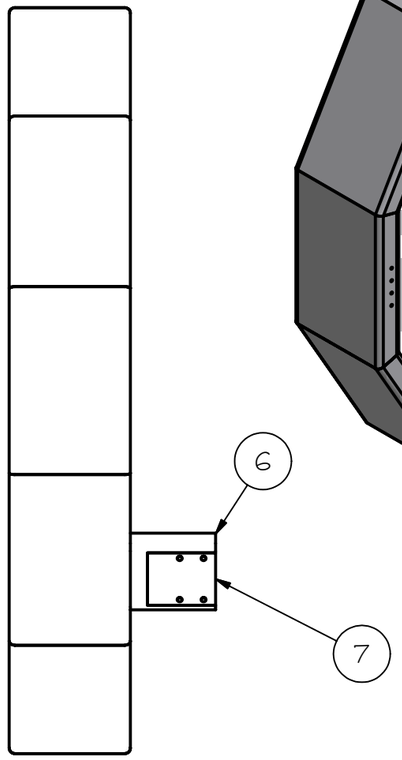
TITLE: SUPPORT WELDMENT, RIGHT

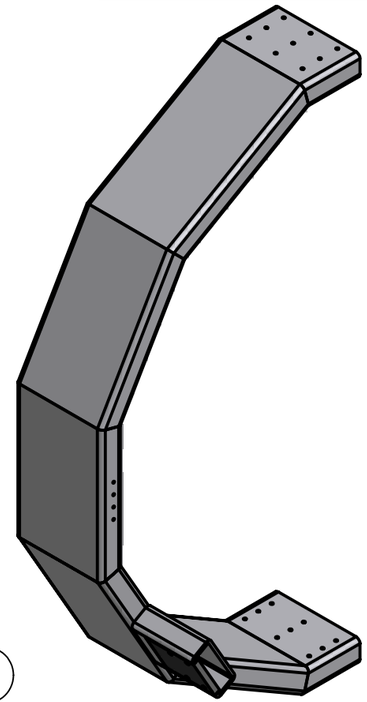
PROJECT CODE | DWG NO A1130 | REV A

NEXT ASS'Y A1100 | 1/4

REV	DRWN	CHK'D	DATE	DESCRIPTION







SCALE 1 / 10

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	A1151	BASE TUBE 1
2	2	A1152	BASE TUBE 2
3	1	A1153	BASE TUBE 3
4	2	A1154	BASE TUBE 4
6	1	A1155	HARDPOINT MOUNT SUPPORT
7	1	A1156	HARDPOINT MOUNT PAD

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 9/3/2003
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

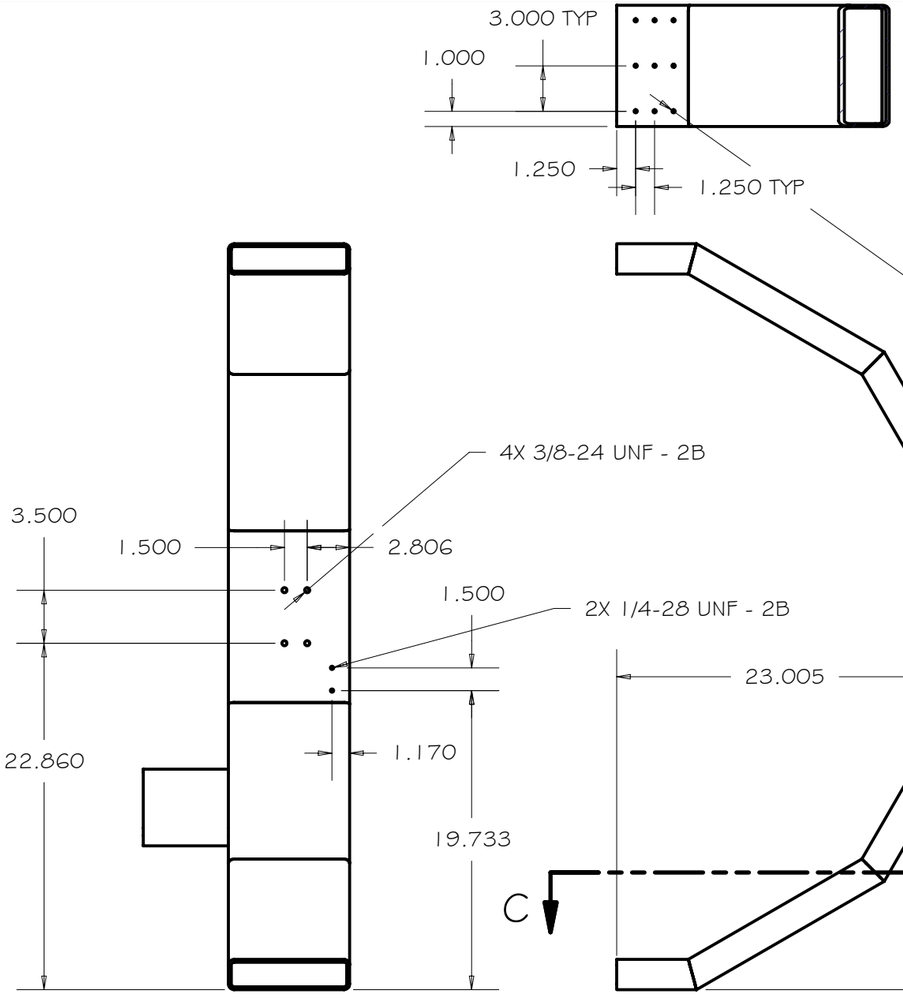
QTY: 1

Cassegrain ADC

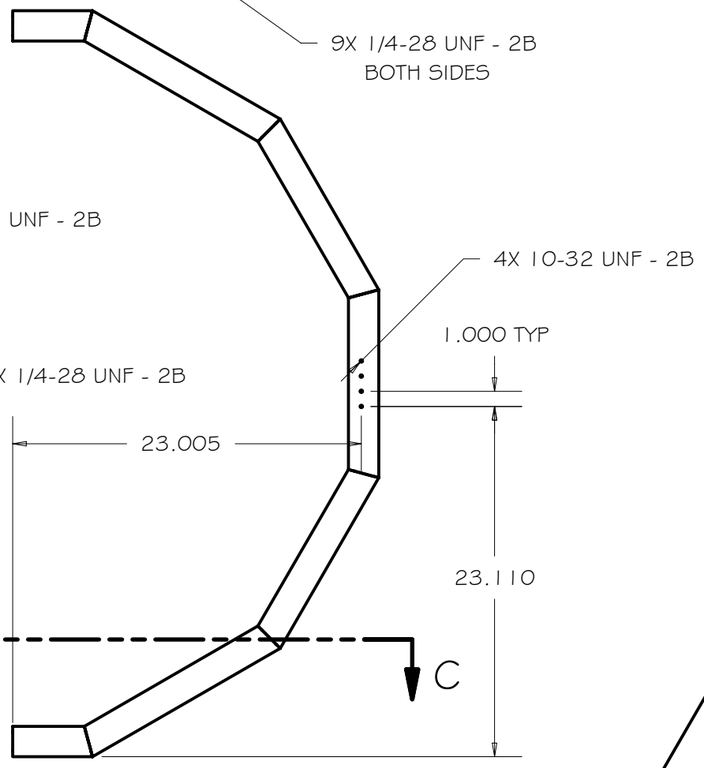
TITLE: FRAME WELDMENT, LOWER

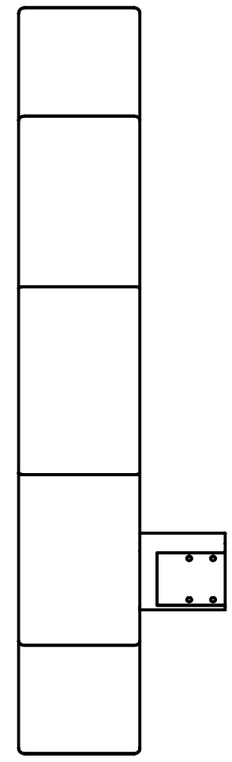
PROJECT CODE:
NEXT ASS'Y: A1100
DWG NO: A1150
REV: A
SHEET: 1 / 2

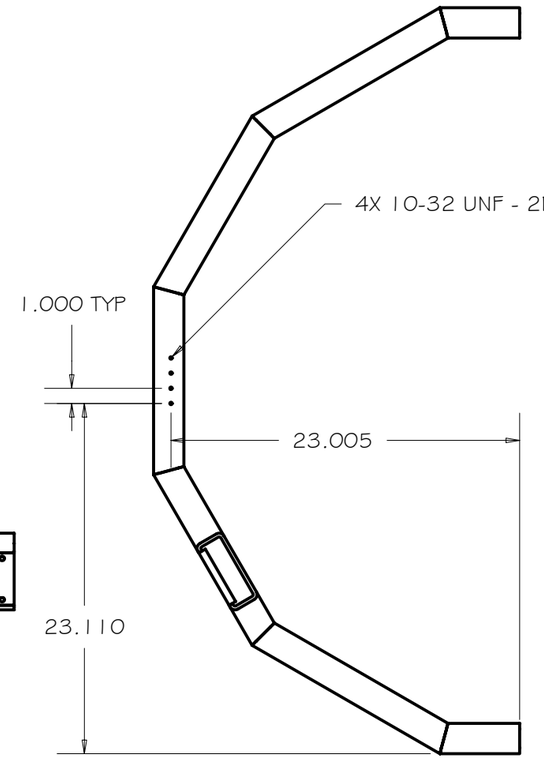
REV	DRWN	CHK'D	DATE	DESCRIPTION

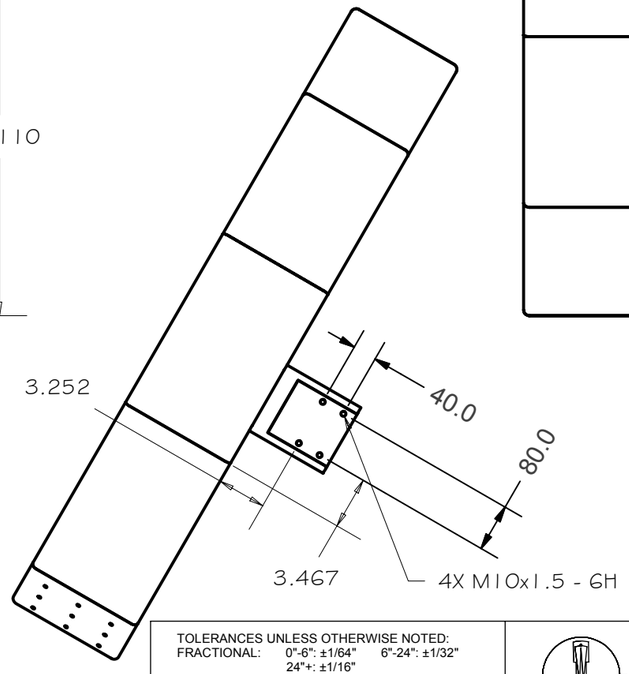


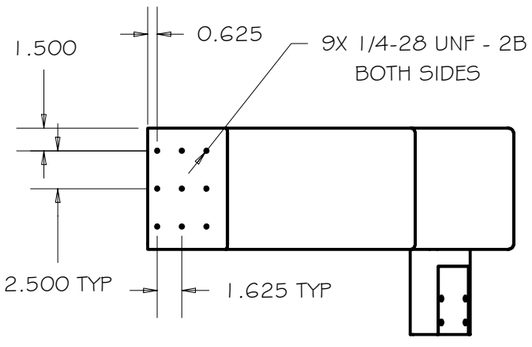
SECTION C-C
SCALE 1 / 10











VIEW A-A
SCALE 1 / 10

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	9/3/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

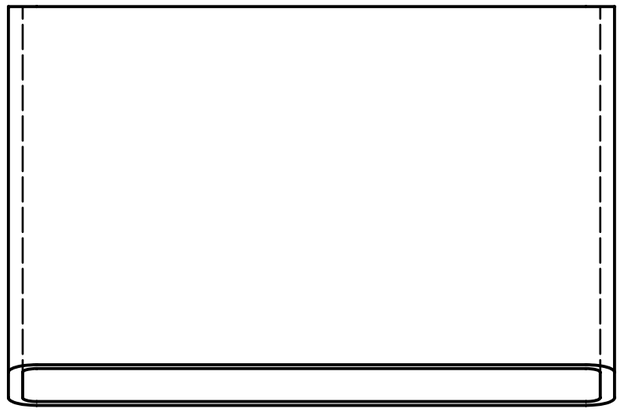
TITLE: FRAME WELDMENT, LOWER

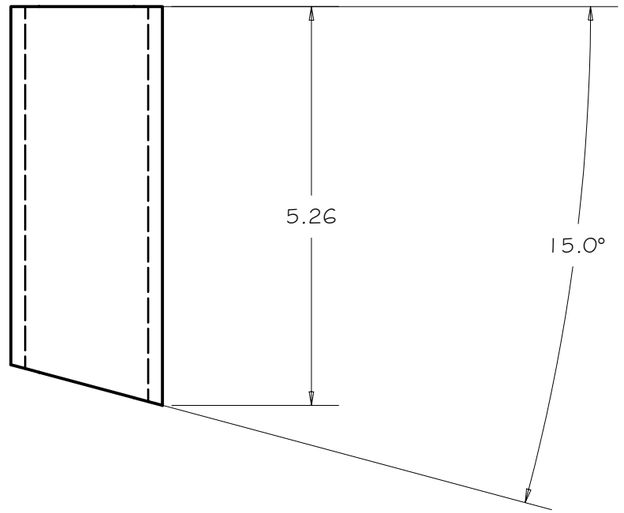
PROJECT CODE | DWG NO: A1150 | REV: A

NEXT ASS'Y: A1100

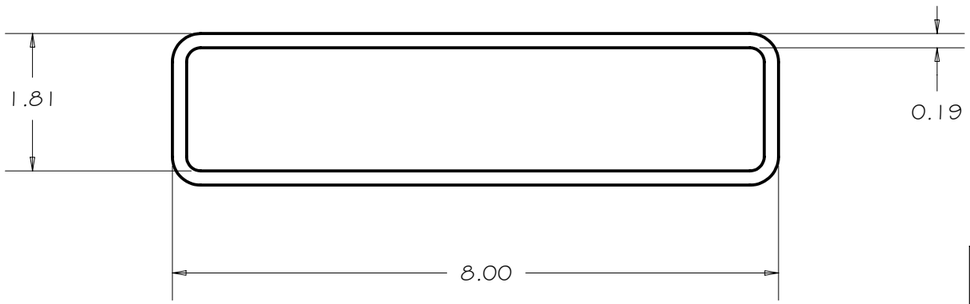
SHEET 2 / 2

REV	DRWN	CHK'D	DATE	DESCRIPTION





SCALE 1 / 2



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL TUBE
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

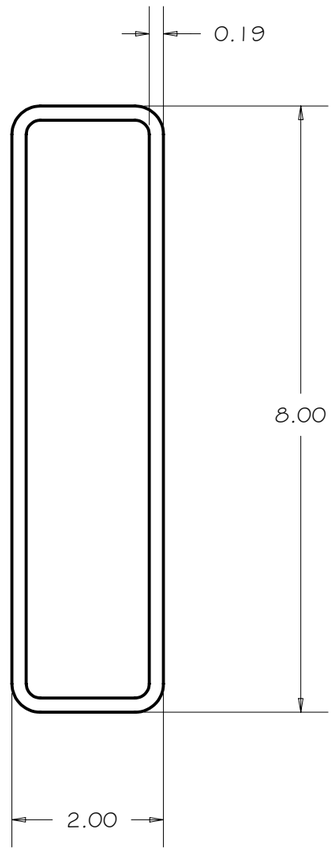
QTY: 2

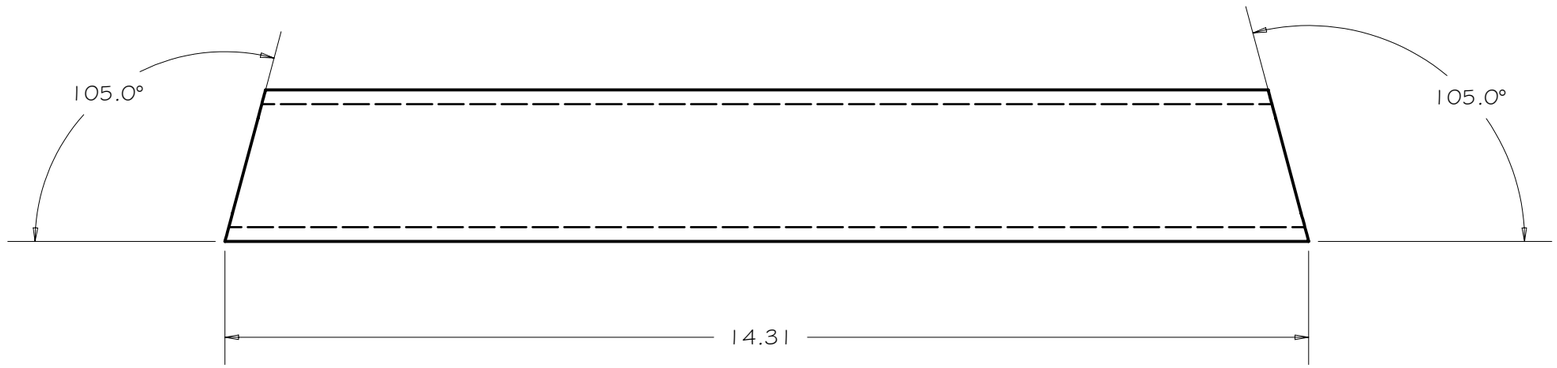
Cassegrain ADC

TITLE: BASE TUBE 1

PROJECT CODE:
NEXT ASS'Y: A1150
DWG NO: A1151
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





SCALE 1 / 2

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL TUBE
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

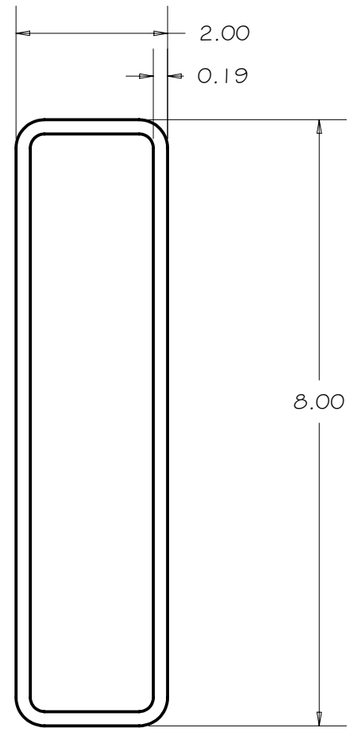
QTY: 2

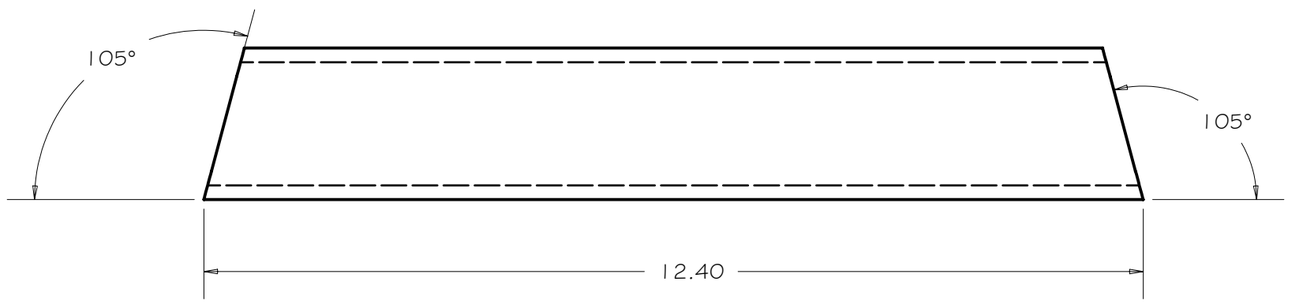
Cassegrain ADC

TITLE: BASE TUBE 2

PROJECT CODE:
NEXT ASS'Y: A1150
DWG NO: A1152
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





SCALE 1 / 2

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL TUBE
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernn

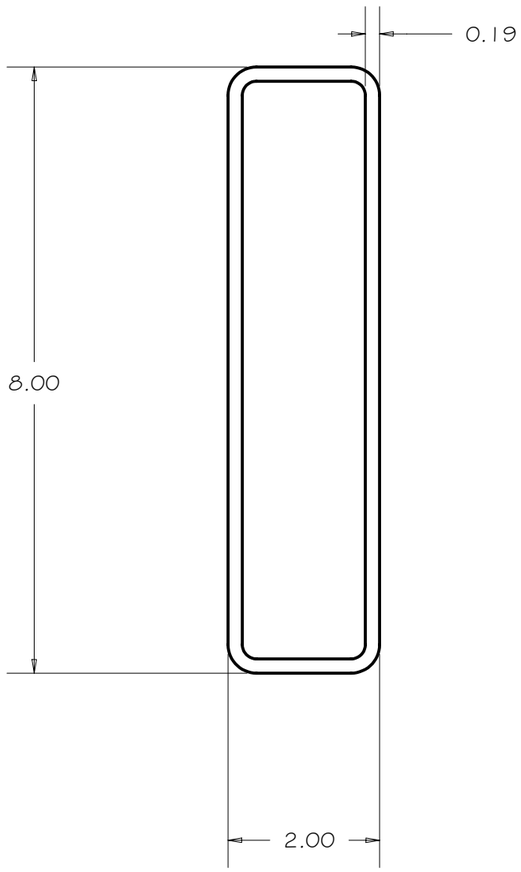
QTY: 1

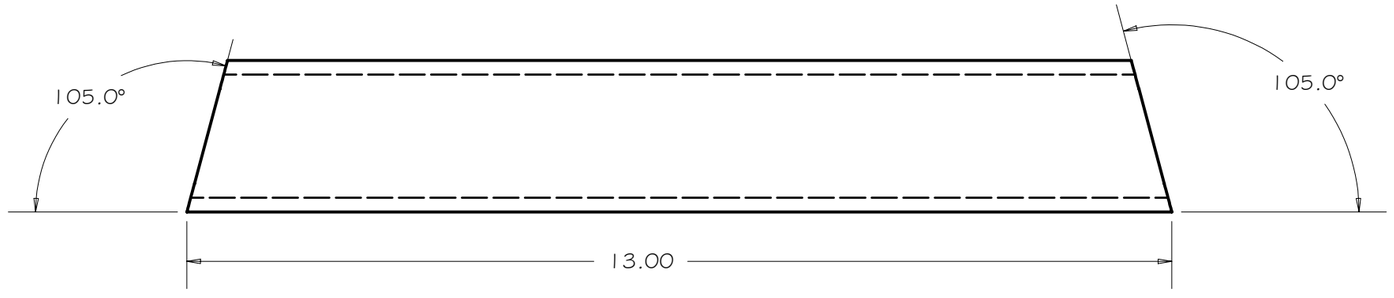
Cassegrain ADC

TITLE: BASE TUBE 3

PROJECT CODE:
NEXT ASS'Y: A1150
DWG NO: A1153
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





SCALE 1 / 2

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL TUBE	

LICK OBSERVATORY

QTY: 2

DRAWN	vernon	3/19/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

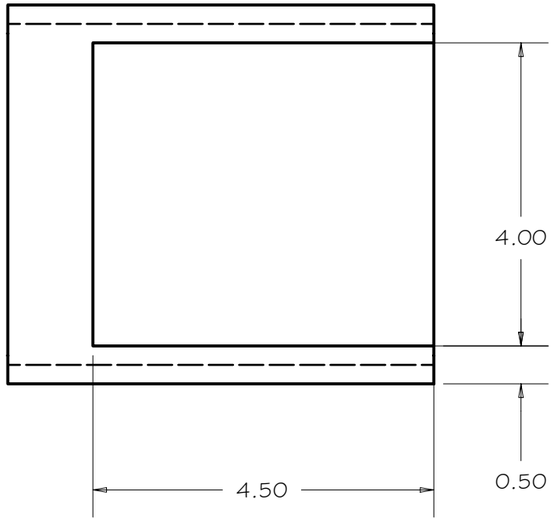
Cassegrain ADC

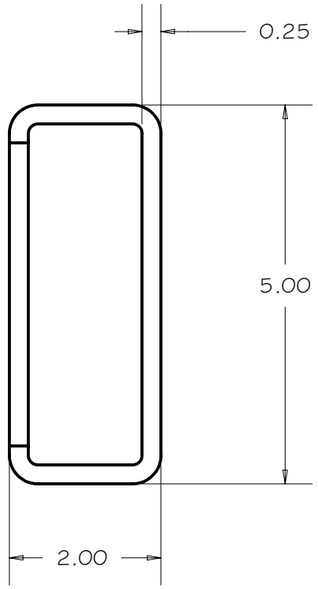
TITLE: BASE TUBE 4

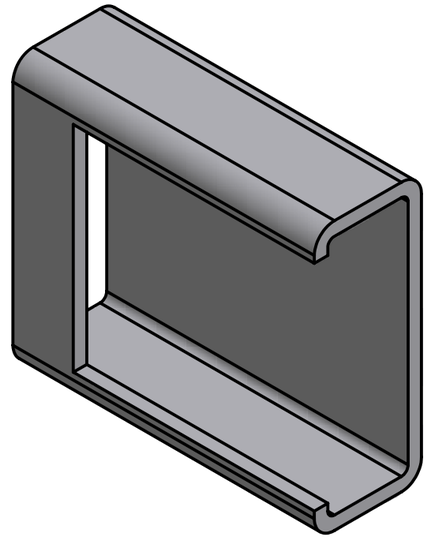
PROJECT CODE	DWG NO	REV
NEXT ASS'Y A1150	A1154	A

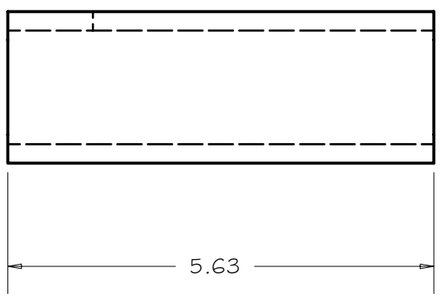
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION









SCALE 1 / 2

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL TUBE
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

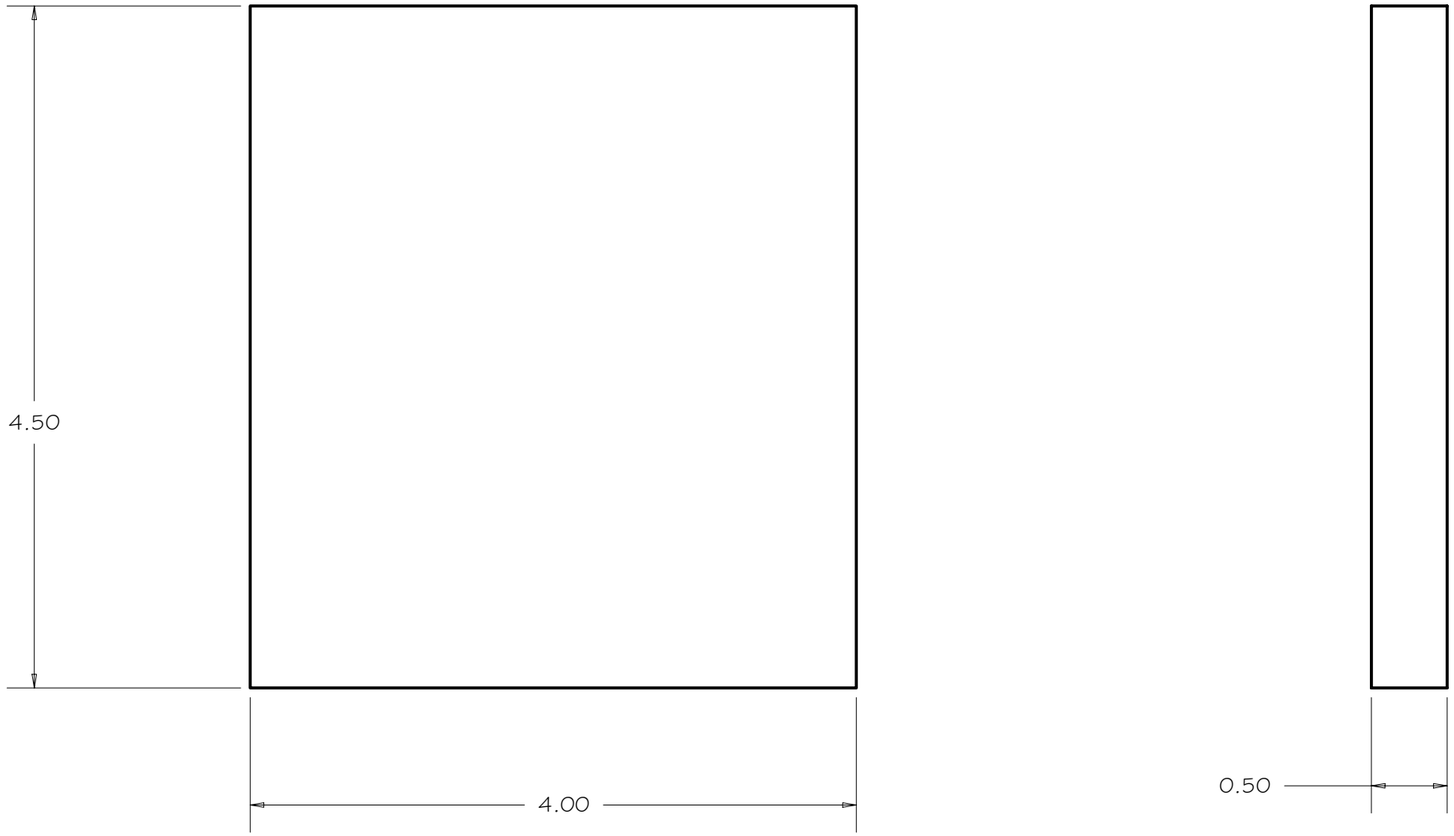
QTY: 1

Cassegrain ADC

TITLE: HARDPOINT MOUNT SUPPORT

PROJECT CODE:
NEXT ASS'Y: A1150
DWG NO: A1155
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

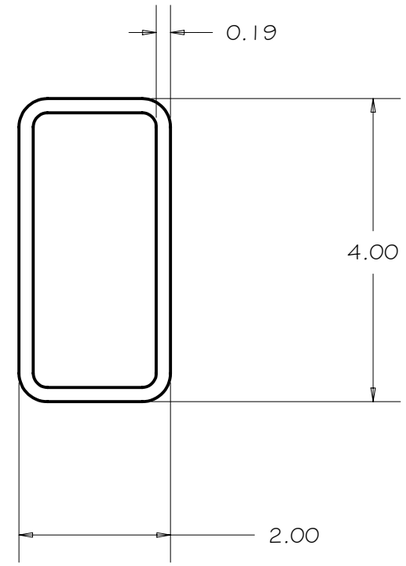
QTY 3

Cassegrain ADC

TITLE: HARDPOINT MOUNT PAD

PROJECT CODE:
NEXT ASS'Y: A1150, A1160
DWG NO: A1156
REV: A
1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 1 / 2

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL TUBE
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

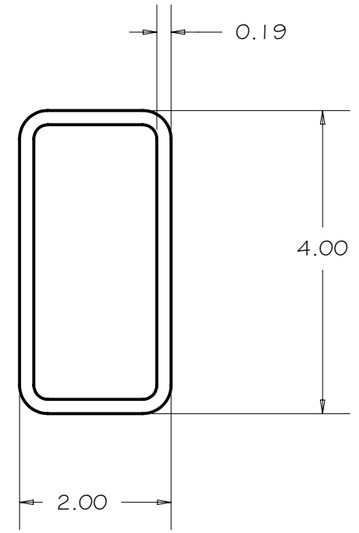
QTY: 1

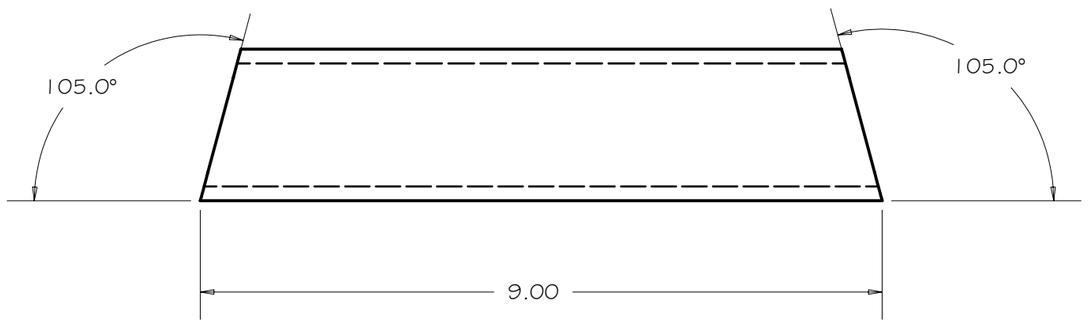
Cassegrain ADC

TITLE: BASE TUBE 8

PROJECT CODE:
NEXT ASS'Y: A1160
DWG NO: A1164
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





SCALE 1 / 2

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL TUBE
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

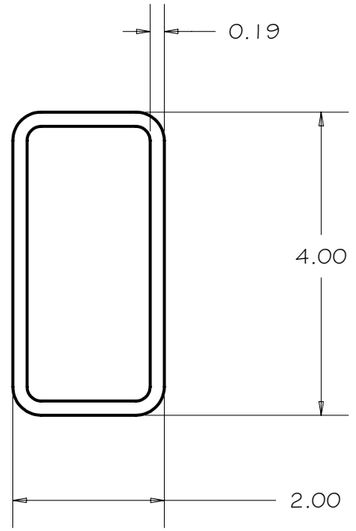
QTY:2

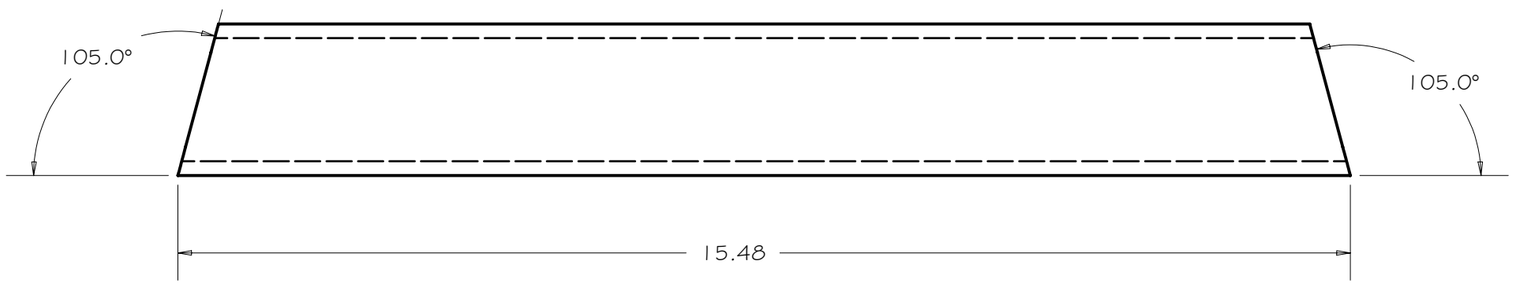
Cassegrain ADC

TITLE: BASE TUBE 7

PROJECT CODE:
NEXT ASS'Y: A1160
DWG NO: A1163
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





SCALE 1 / 2

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL TUBE
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

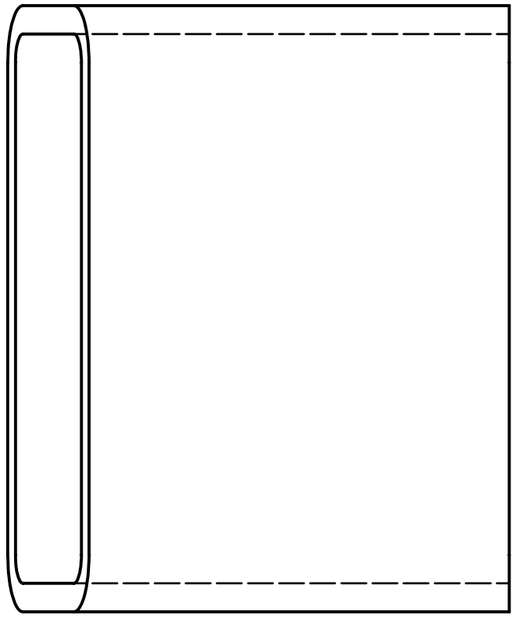
QTY: 2

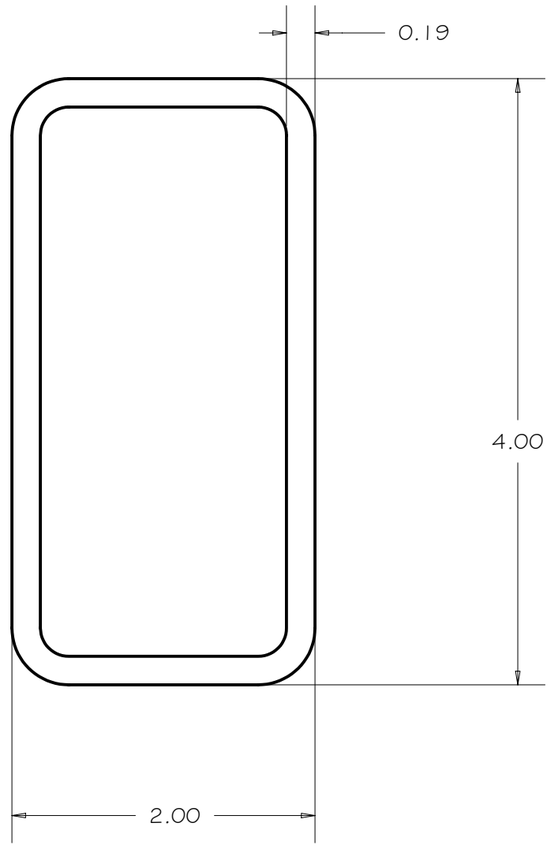
Cassegrain ADC

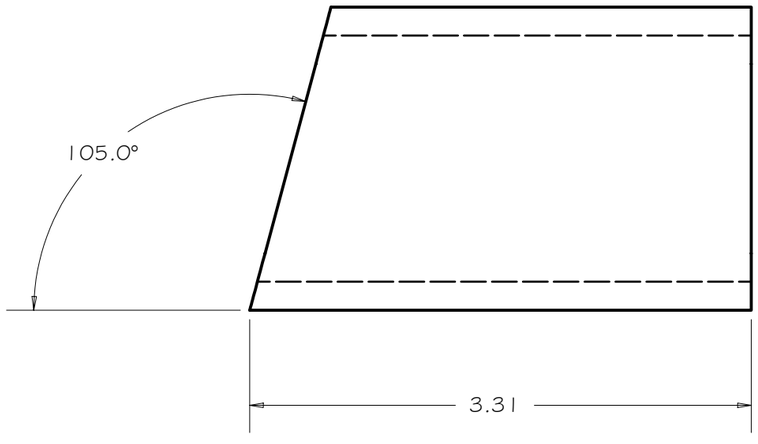
TITLE: BASE TUBE 6

PROJECT CODE:
NEXT ASS'Y: A1160
DWG NO: A1162
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







SCALE 1 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL TUBE
FINISH:

LICK OBSERVATORY

QTY: 2

DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

Cassegrain ADC

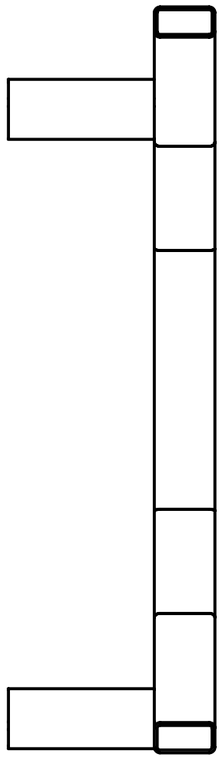
TITLE:

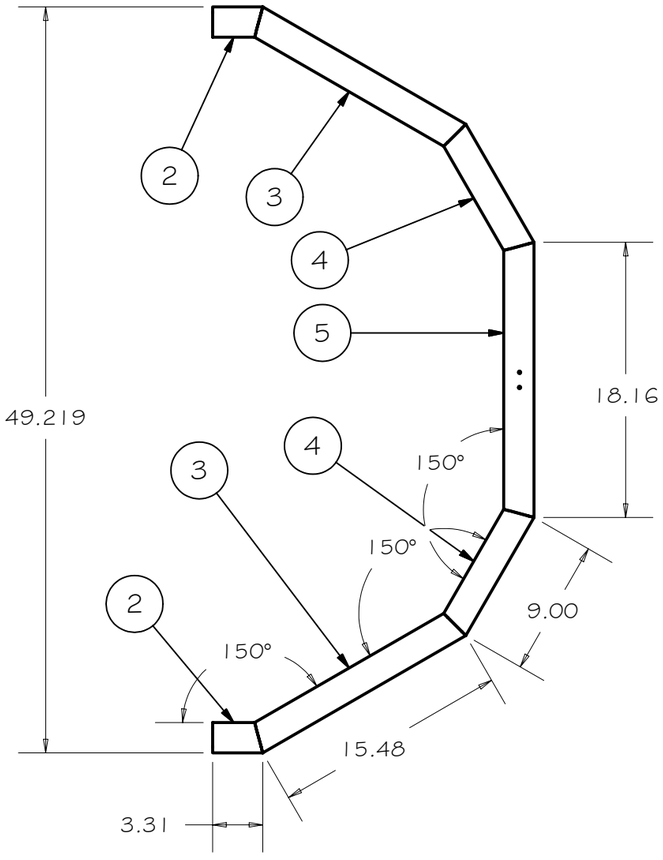
PROJECT CODE:
NEXT ASS'Y: A1160

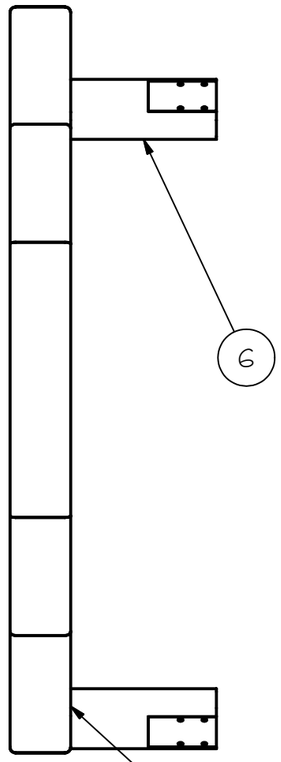
DWG NO: A1161

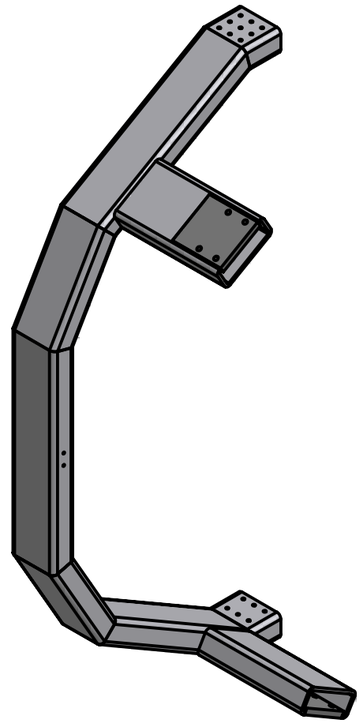
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION









2 X 4 X 3/16 WALL STEEL TUBE

A A

SCALE 1 / 10

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
2	2	A1161	BASE TUBE 5
3	2	A1162	BASE TUBE 6
4	2	A1163	BASE TUBE 7
5	1	A1164	BASE TUBE 8
6	2	A1165	HARDPOINT MOUNT SUPPORT
7	2	A1156	HARDPOINT MOUNT PAD

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

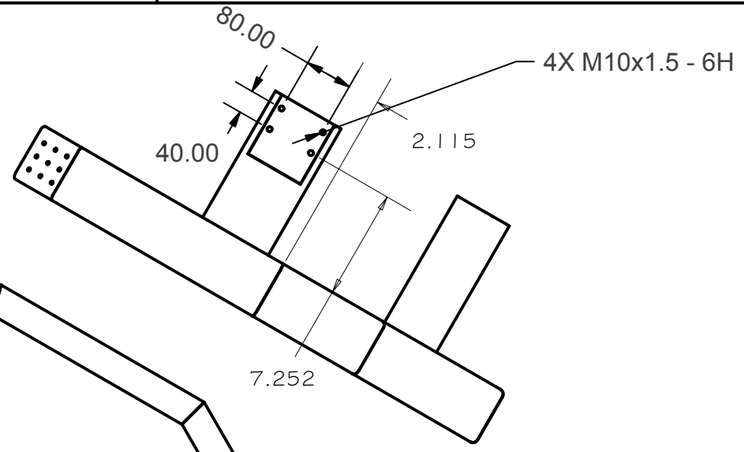
DRAWN	vernon	9/3/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

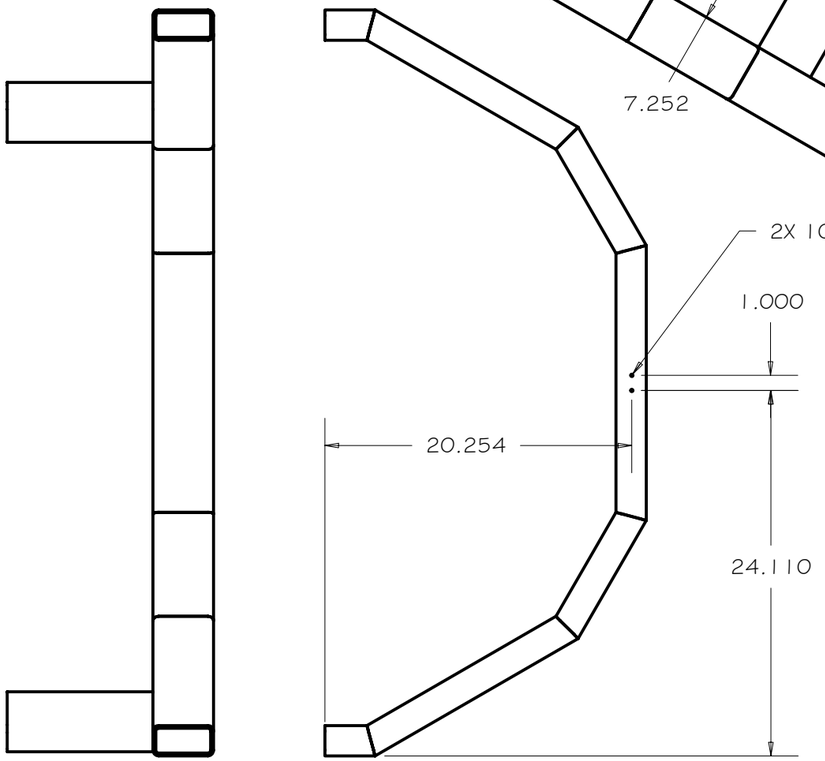
Cassegrain ADC

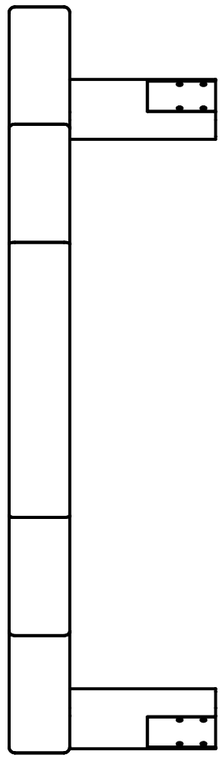
TITLE: FRAME WELDMENT, LOWER

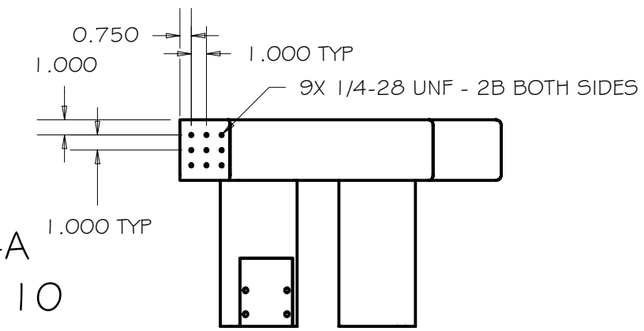
PROJECT CODE:
NEXT ASS'Y: A1100
DWG NO: A1160
REV: A
SHEET: 1/2

REV	DRWN	CHK'D	DATE	DESCRIPTION

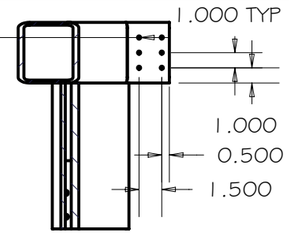




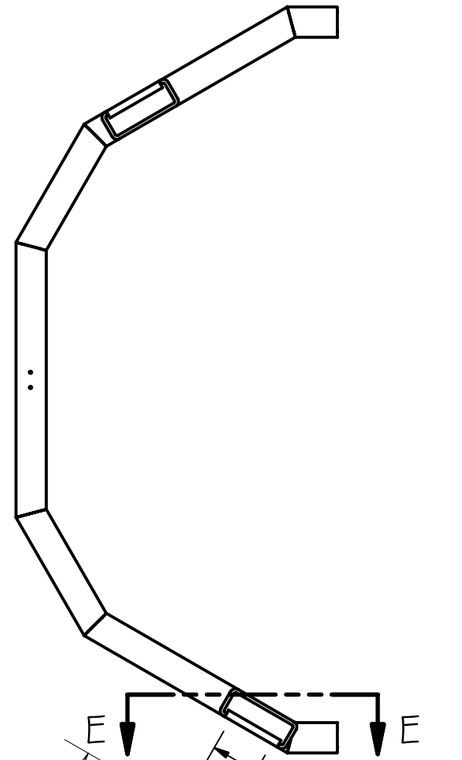


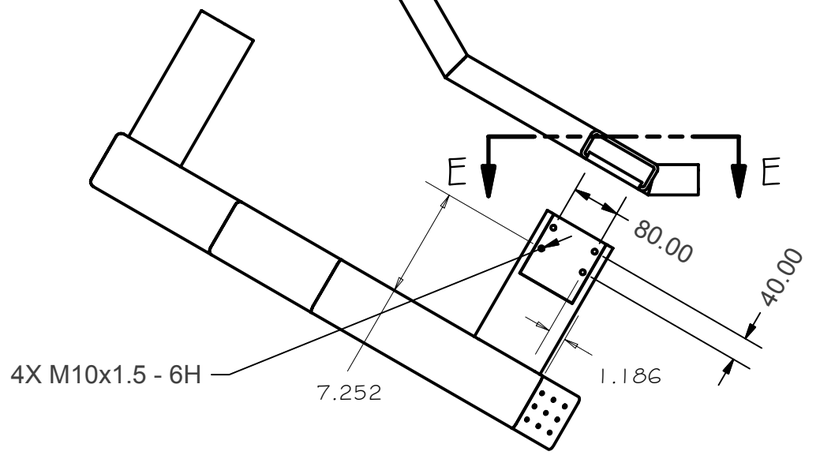


VIEW A-A
SCALE 1 / 10



SECTION E-E
SCALE 1 / 10





TOLERANCES UNLESS OTHERWISE NOTED:	
FRACTIONAL:	0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL:	X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5°	FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX	
MATERIAL	FINISH

LICK OBSERVATORY

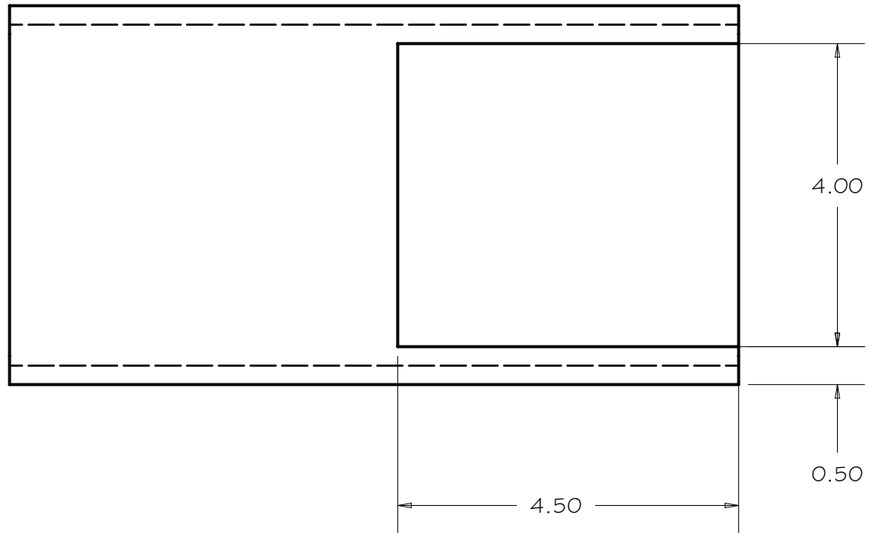
DRAWN	vernon	9/3/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

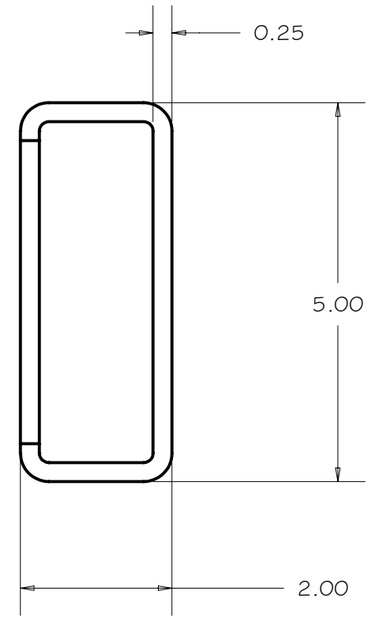
Cassegrain ADC

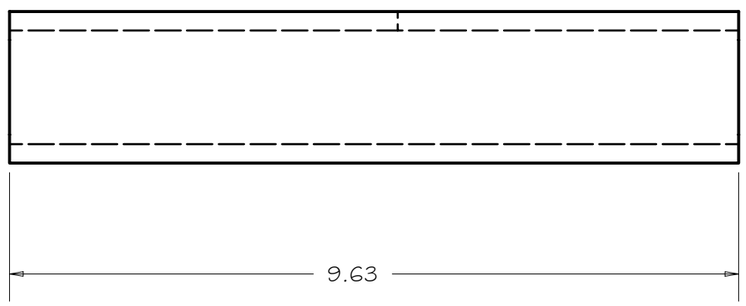
TITLE: FRAME WELDMENT, LOWER

PROJECT CODE	DWG NO	REV
NEXT ASS'Y: A1100	A1160	A
		2/2

REV	DRWN	CHK'D	DATE	DESCRIPTION







SCALE 1 / 2

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL TUBE
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

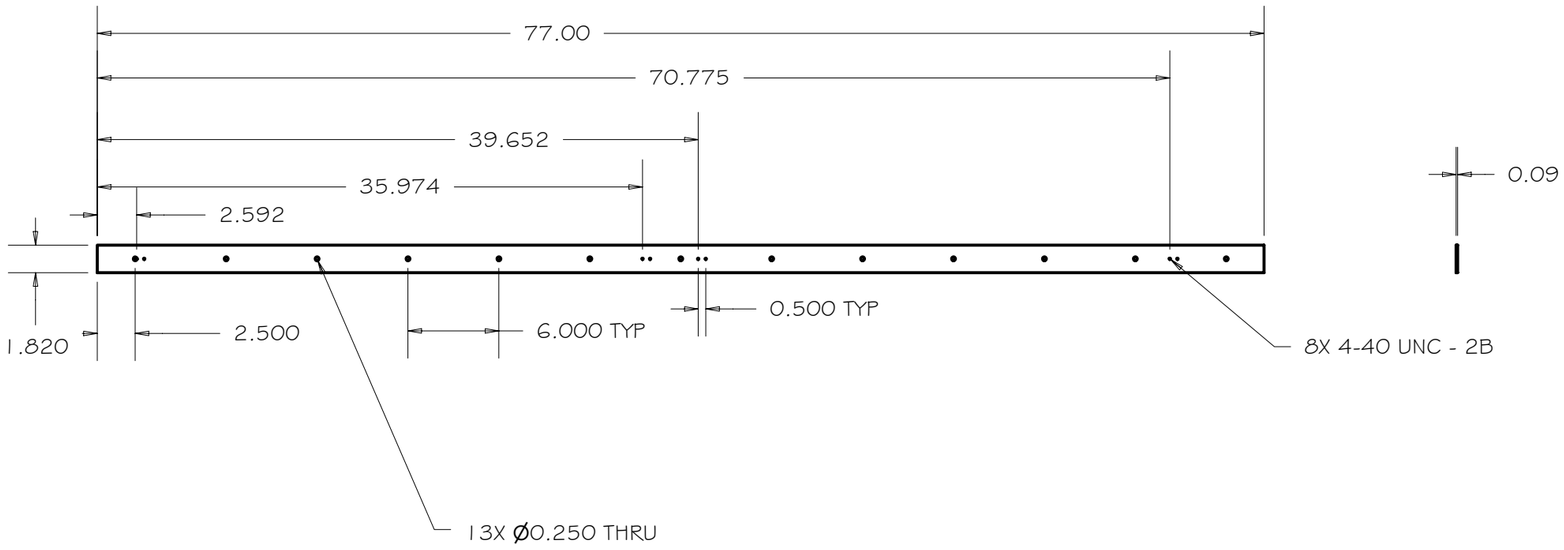
QTY: 2

Cassegrain ADC

TITLE: HARDPOINT MOUNT SUPPORT

PROJECT CODE:
NEXT ASS'Y: A1160
DWG NO: A1165
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL	

LICK OBSERVATORY

DRAWN	vernon	9/3/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

QTY: 2

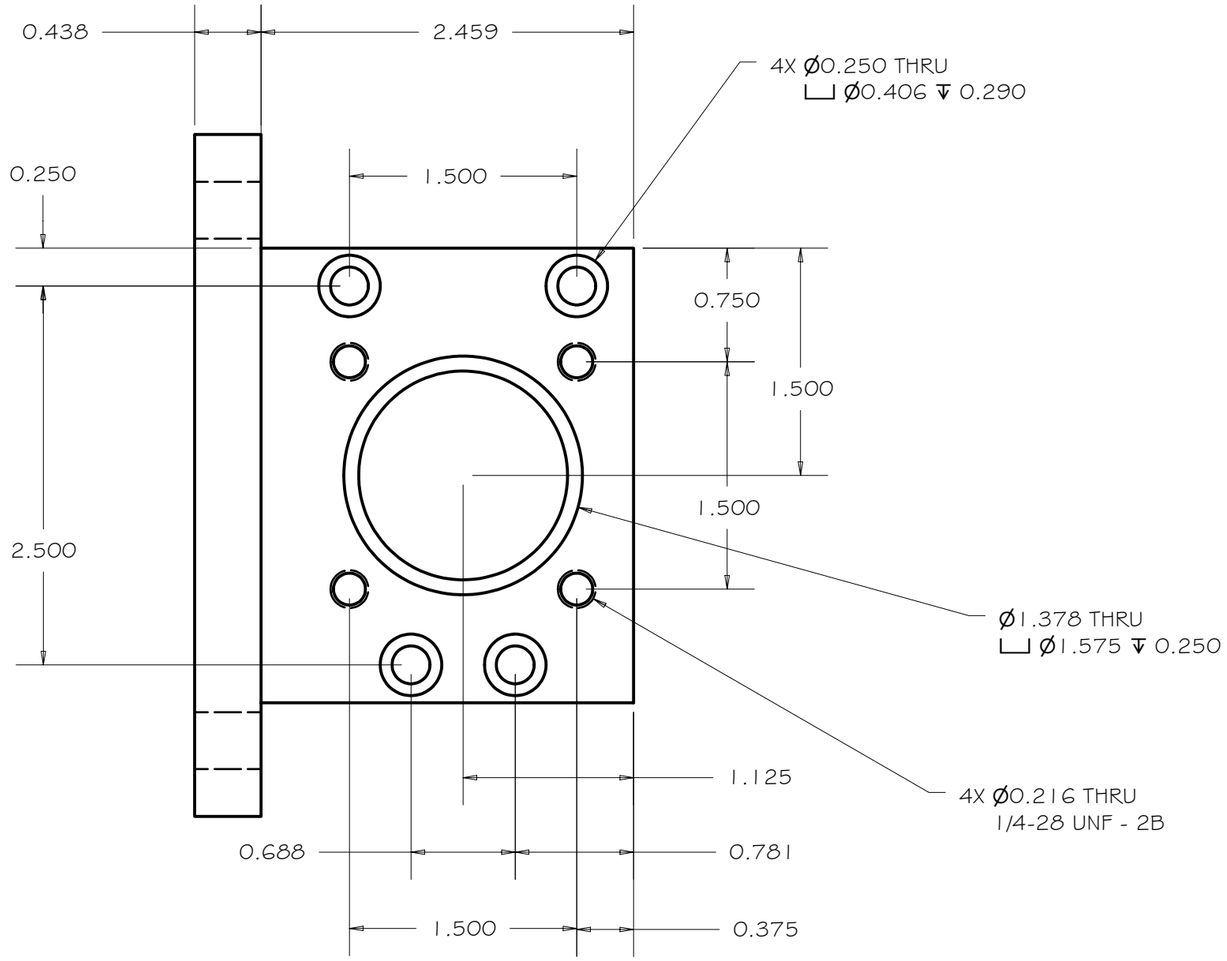
Cassegrain ADC

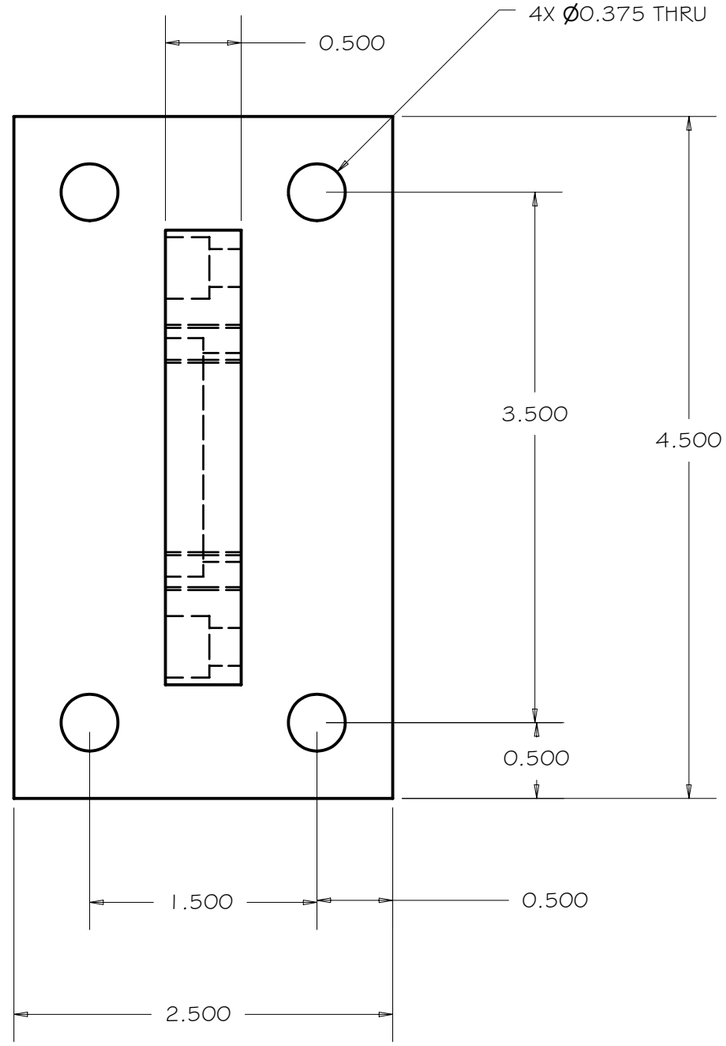
TITLE: RAIL SPACER

PROJECT CODE	DWG NO	REV
NEXT ASS'Y A1100	A1170	A

SHEET 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL	

LICK OBSERVATORY

DRAWN	vernon	9/4/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

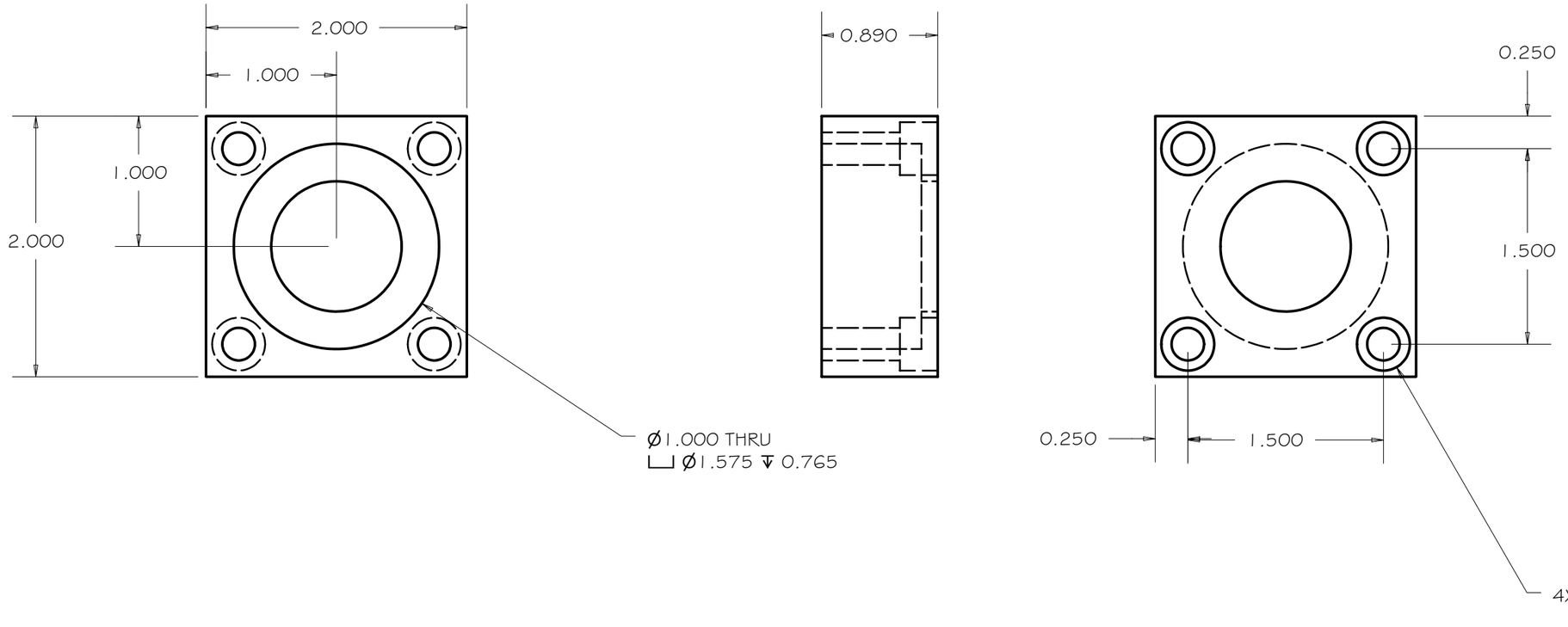
QTY: 1

Cassegrain ADC

TITLE: BEARING HOUSING, AFT

PROJECT CODE	DWG NO	REV
NEXT ASS'Y: A1200	A1214	A

REV	DRWN	CHK'D	DATE	DESCRIPTION



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 9/4/2003
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

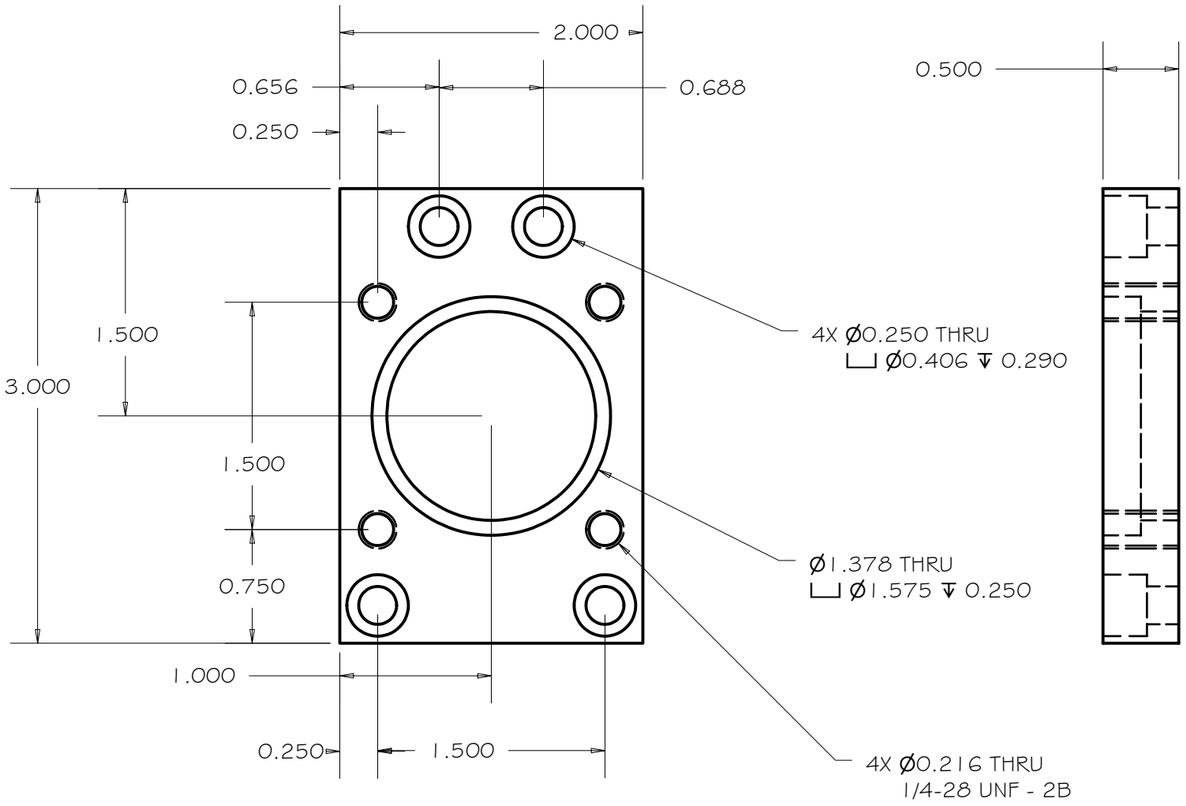
QTY: 1

Cassegrain ADC

TITLE: BEARING CAP

PROJECT CODE:
NEXT ASS'Y: A1200
DWG NO: A1213
REV: A
SHEET 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

QTY: 1

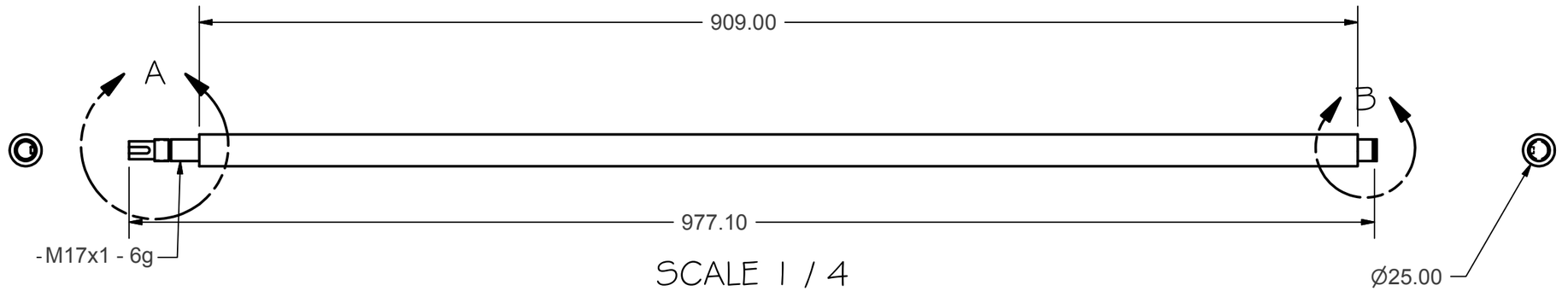
DRAWN: vernon 9/4/2003
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

Cassegrain ADC

TITLE: BEARING HOUSING

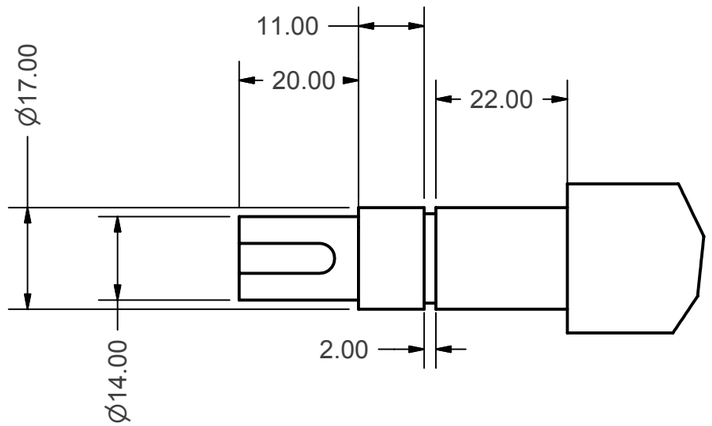
PROJECT CODE:
NEXT ASS'Y: A1200
DWG NO: A1212
REV: A
1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION



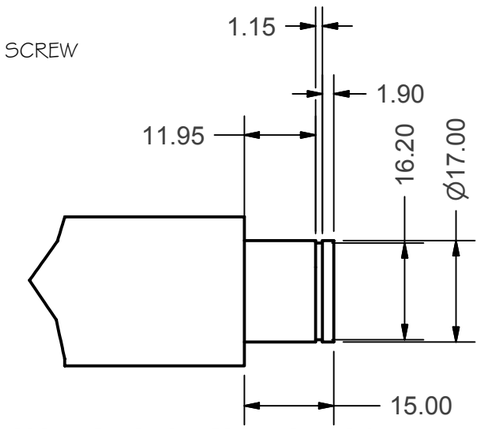
SCALE 1 / 4

NOTES:
THK BNF 2505L-5RR G2+909L C2 AP-CF BALL SCREW



RECOMMENDED SHAFT END SHAPE A
SHORTENED 5 MM
P. 100 THK CATALOG 75-1BE

DETAIL A
SCALE 1 : 1



RECOMMENDED SHAFT END SHAPE C
P. 104 THK CATALOG 75-1BE

DETAIL B
SCALE 1 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	2/3/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

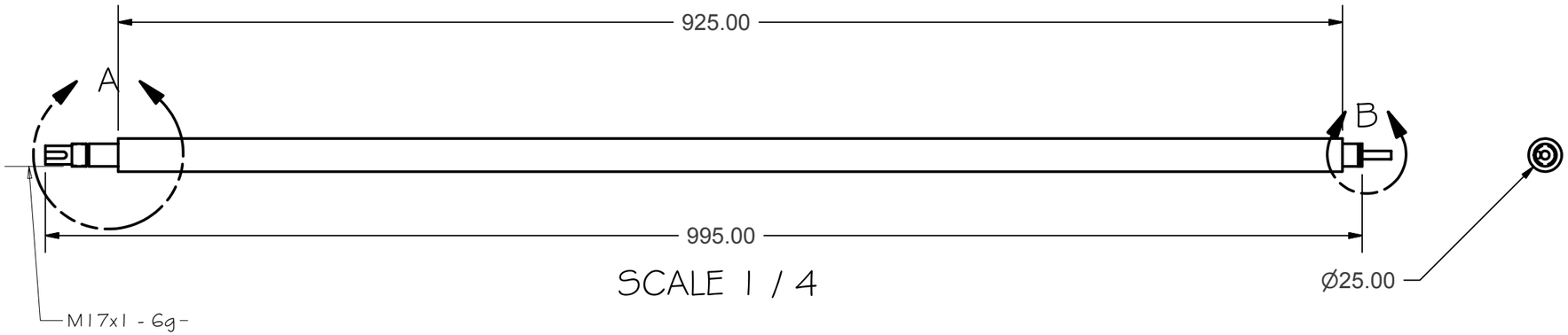
Cassegrain ADC

TITLE: BALL SCREW, AFT

PROJECT CODE	DWG NO	REV
NEXT ASS'Y A1200	A1211	A

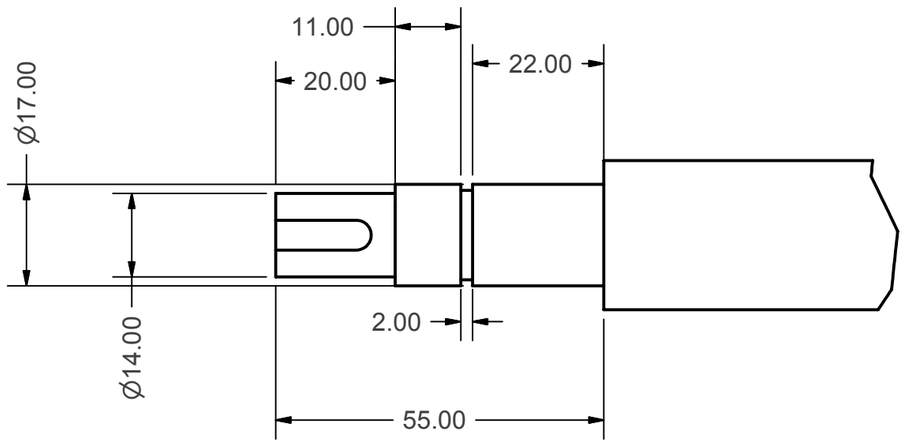
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



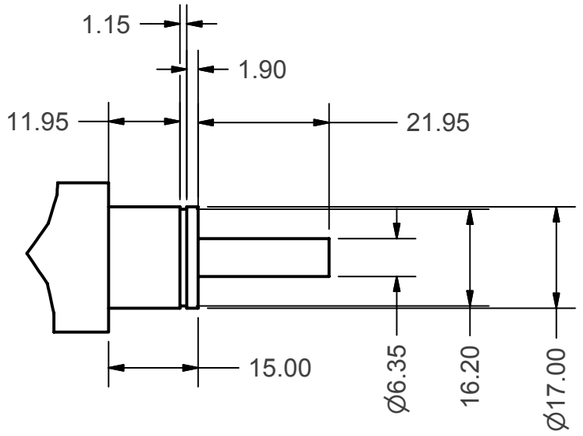
SCALE 1 / 4

NOTES:
THK BNF 2505-5RR G2+925L C2 AP-CF BALL SCREW



RECOMMENDED SHAFT END SHAPE A
SHORTENED 5 MM
P. 100 THK CATALOG 75-1BE

DETAIL A
SCALE 1 : 1



RECOMMENDED SHAFT END SHAPE C
P. 104 THK CATALOG 75-1BE

WITH Ø6.35 mm EXTENSION

DETAIL B
SCALE 1 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	2/3/2004
CHECKED		
DESIGNED	vernon	
ENGINEER		

Cassegrain ADC

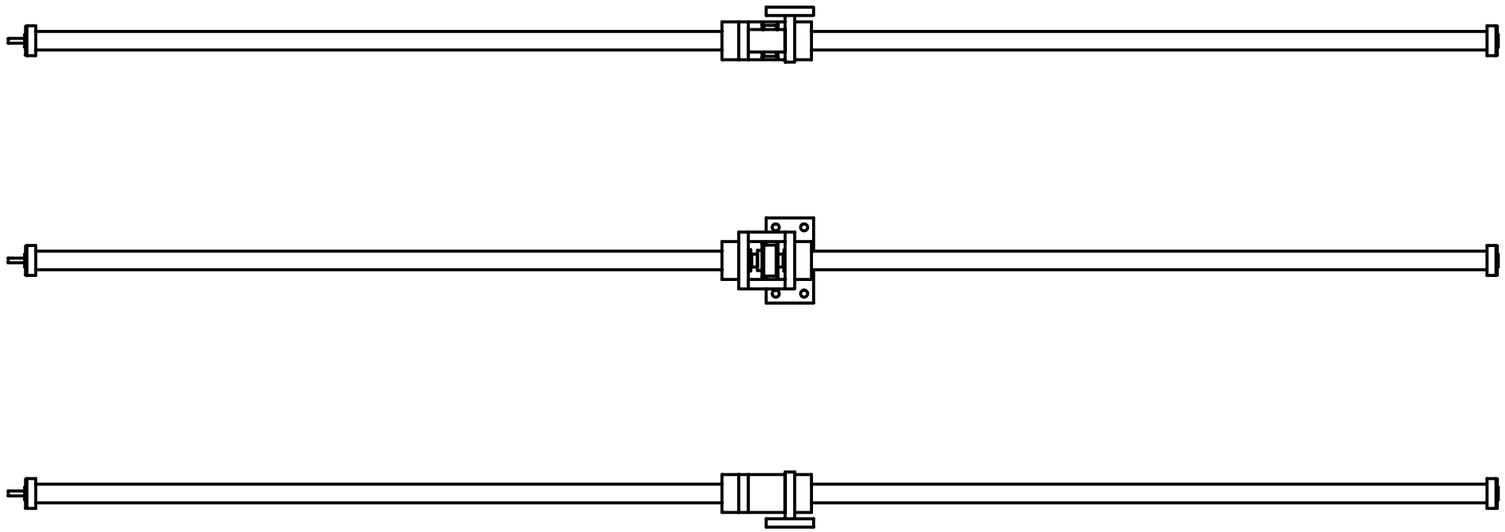
TITLE: BALL SCREW, FWD

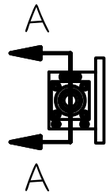
PROJECT CODE | DWG NO: A1210 | REV: A

NEXT ASS'Y: A1200

1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A1210	THK 2505-5 SCREW, FWD
2	1	A1211	THK 2505-5 SCREW, AFT
3	1	A1212	BEARING HOUSING
4	2	A1213	BEARING CAP
5	1	A1214	BEARING HOUSING, AFT
7	1	A1216	SPACER
8	1	A1217	SPACER
9	2	A1218	SLEEVE
10	1	A1219	PIC PULLEY PT026G08L15T
11	6	skf_6203	SKF 6203
12	2	SKF_N-03	SKF N-03
13	2	SKF_W-03	SKF W-03
14	4	WAVE SPRING	WAVE SPRING ,McMaster-Carr # 9714K66

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	8/20/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

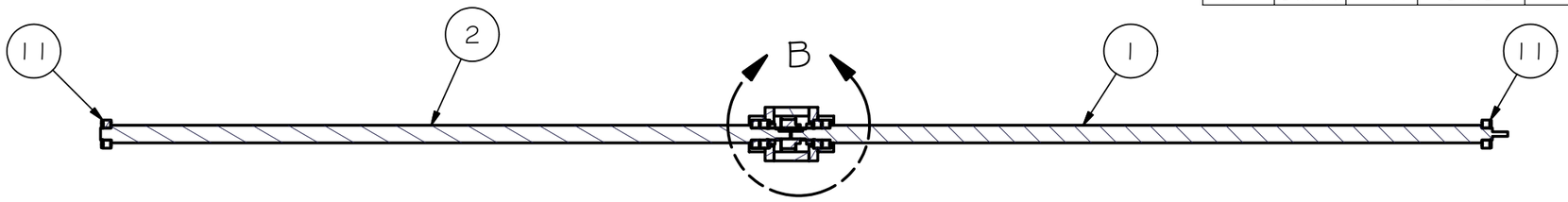
Cassegrain ADC

TITLE: BALL SCREW ASSEMBLY

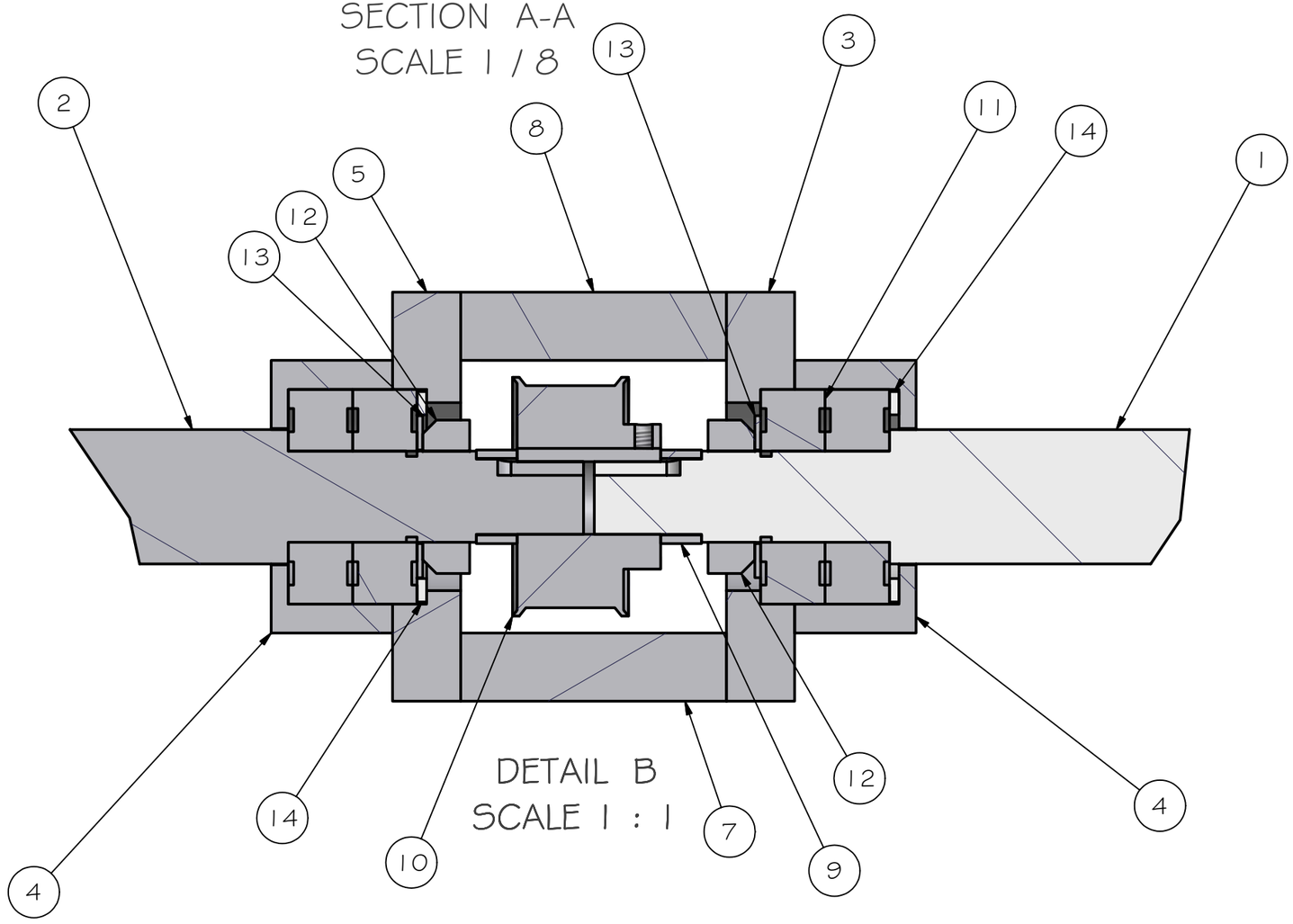
PROJECT CODE | DWG NO: A1200 | REV: A

NEXT ASS'Y: A1000 | 1/2

REV	DRWN	CHK'D	DATE	DESCRIPTION



SECTION A-A
SCALE 1 / 8



DETAIL B
SCALE 1 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	8/20/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

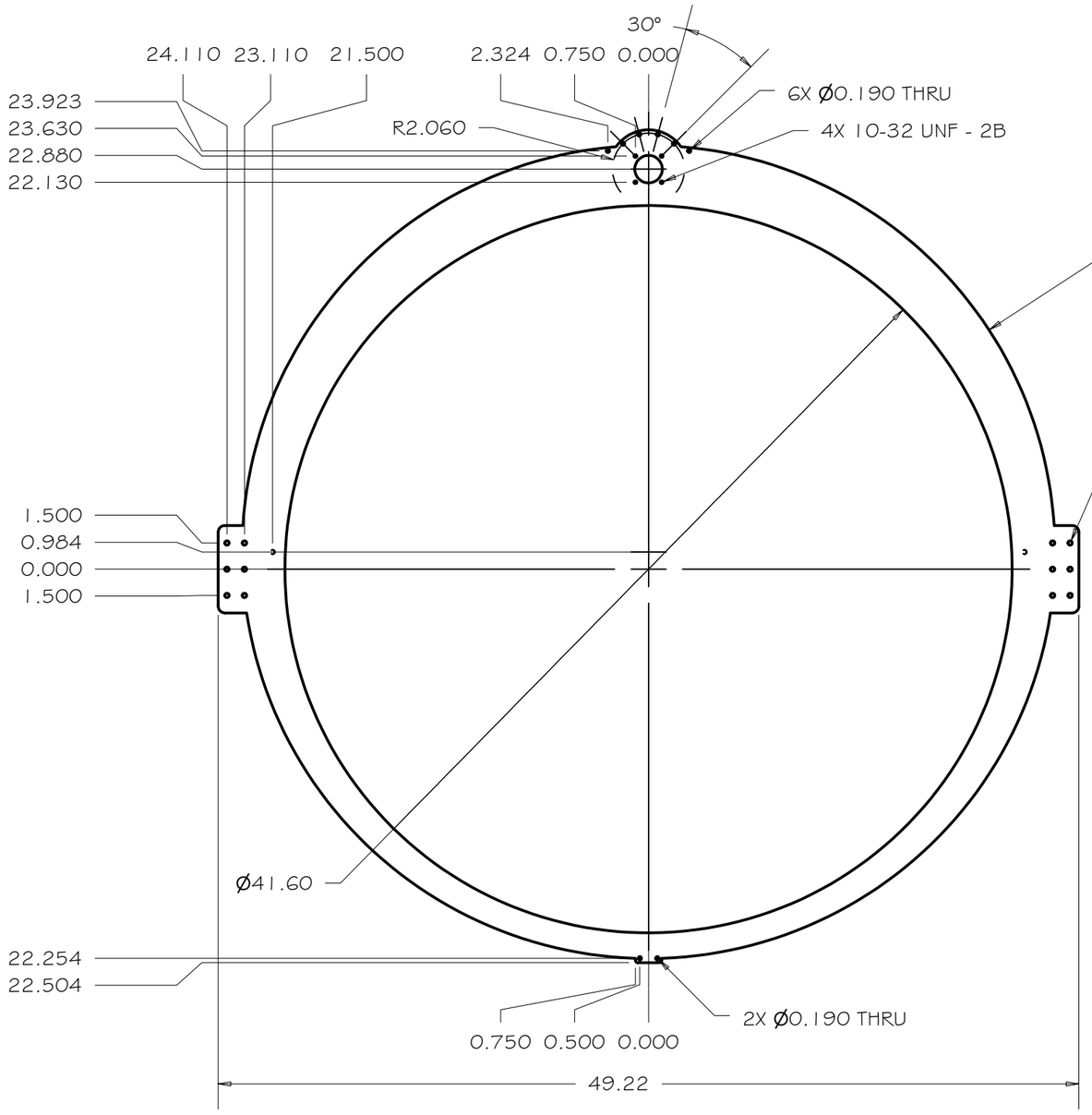
QTY: 1

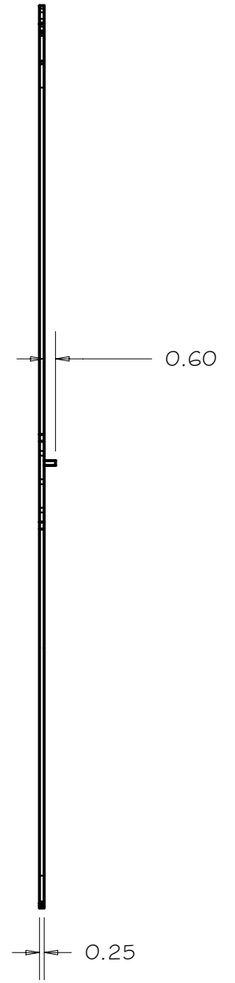
Cassegrain ADC

TITLE: BALL SCREW ASSEMBLY

PROJECT CODE	DWG NO	REV
NEXT ASS'Y: A1000	A1200	A 2/2

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL	

LICK OBSERVATORY

DRAWN	vernon	9/3/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

QTY: 1

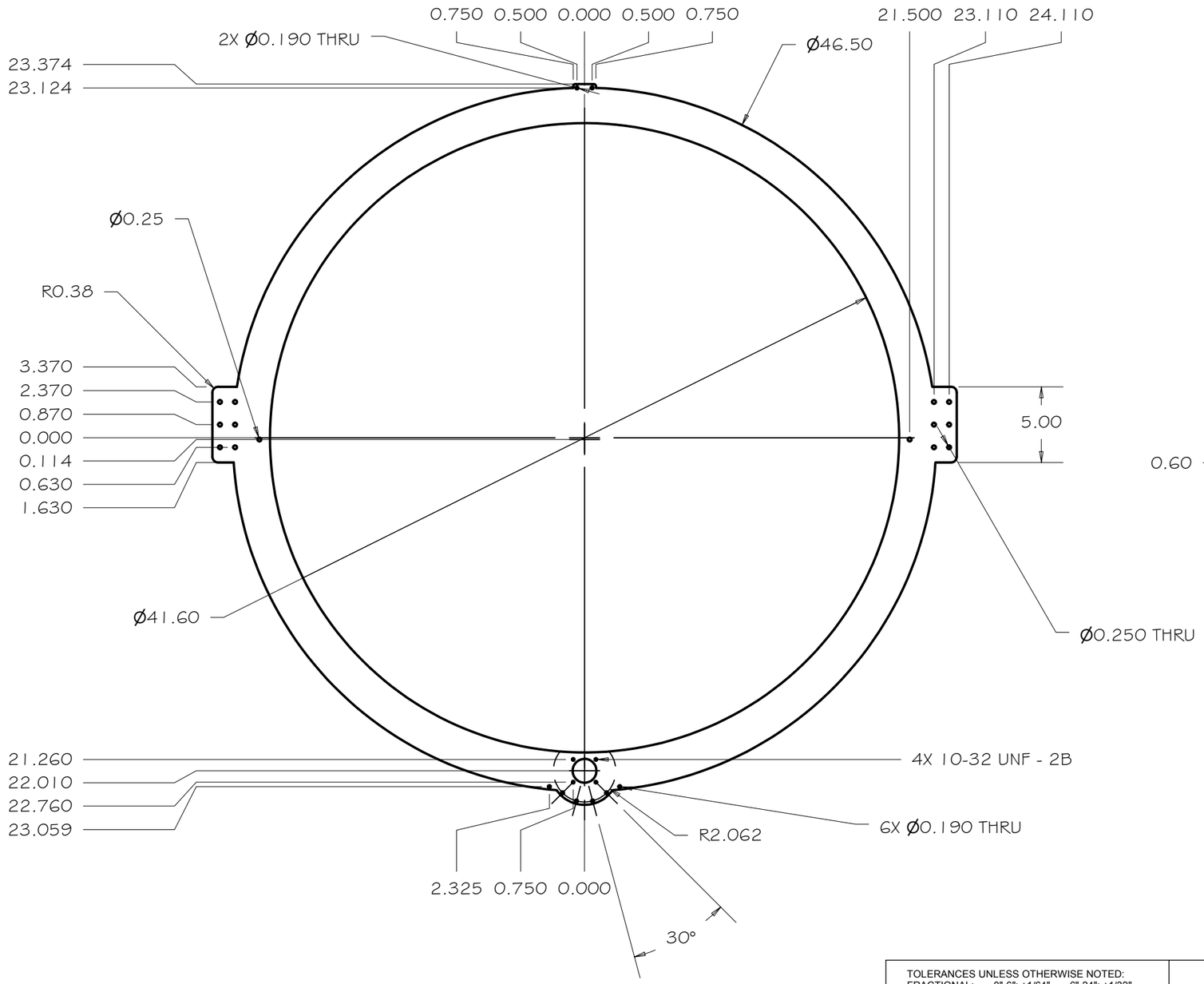
Cassegrain ADC

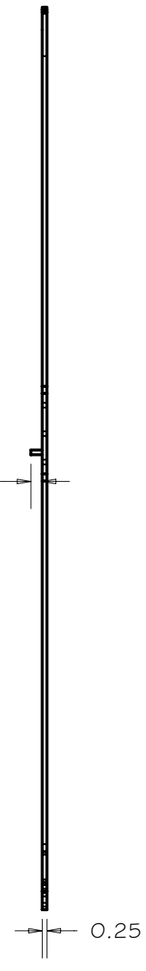
TITLE: RING, AFT

PROJECT CODE	DWG NO	REV
NEXT ASS'Y A1100	A1173	A

1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 9/3/2003
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

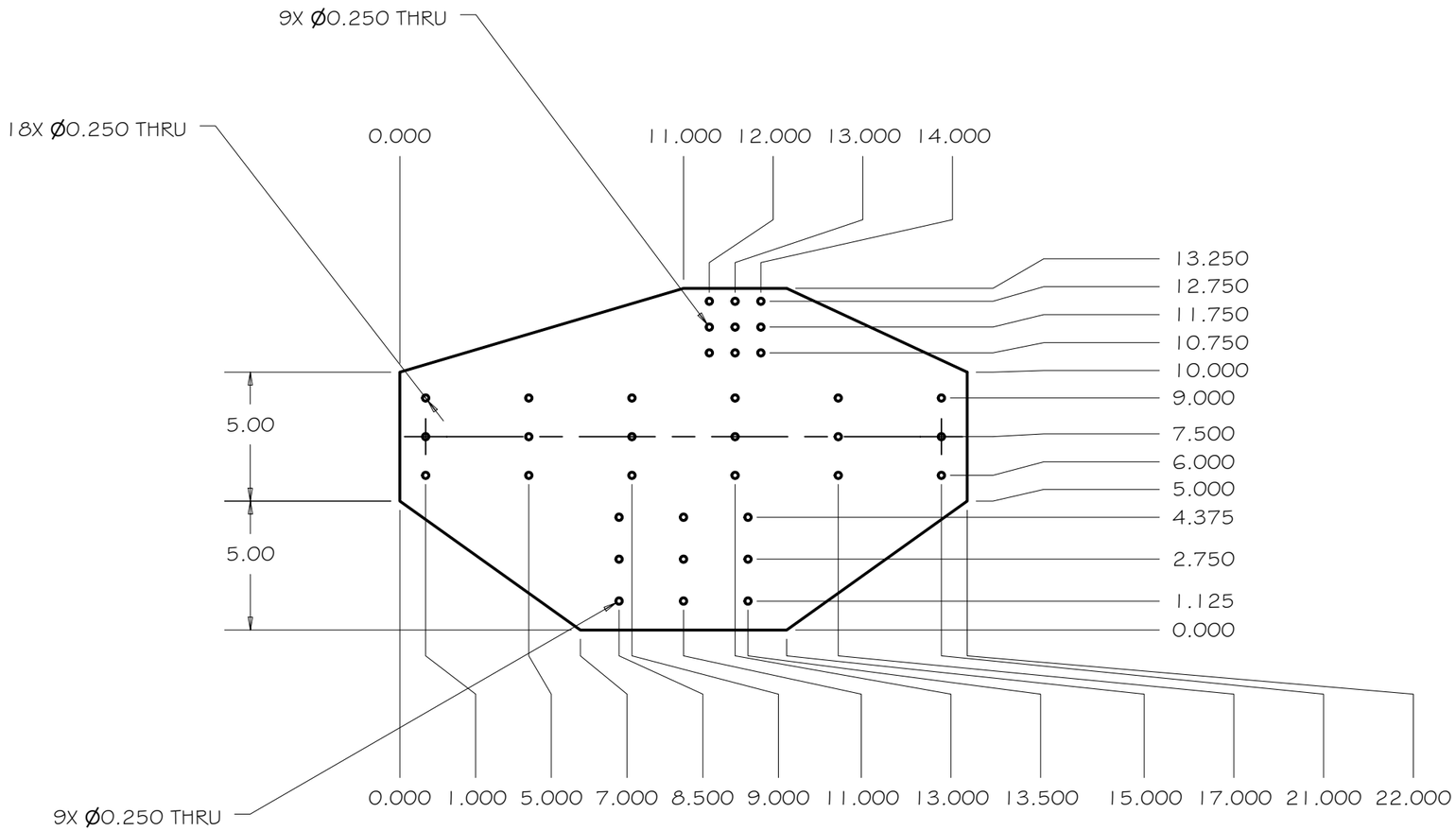
QTY: 1

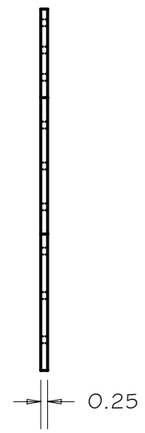
Cassegrain ADC

TITLE: RING, FWD

PROJECT CODE:
NEXT ASS'Y: A1100
DWG NO: A1172
REV: A
SHEET: 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL, COLD ROLLED
FINISH:

LICK OBSERVATORY

DRAWN: vernon 9/3/2003
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

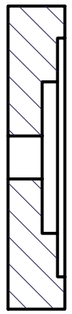
QTY: 2

Cassegrain ADC

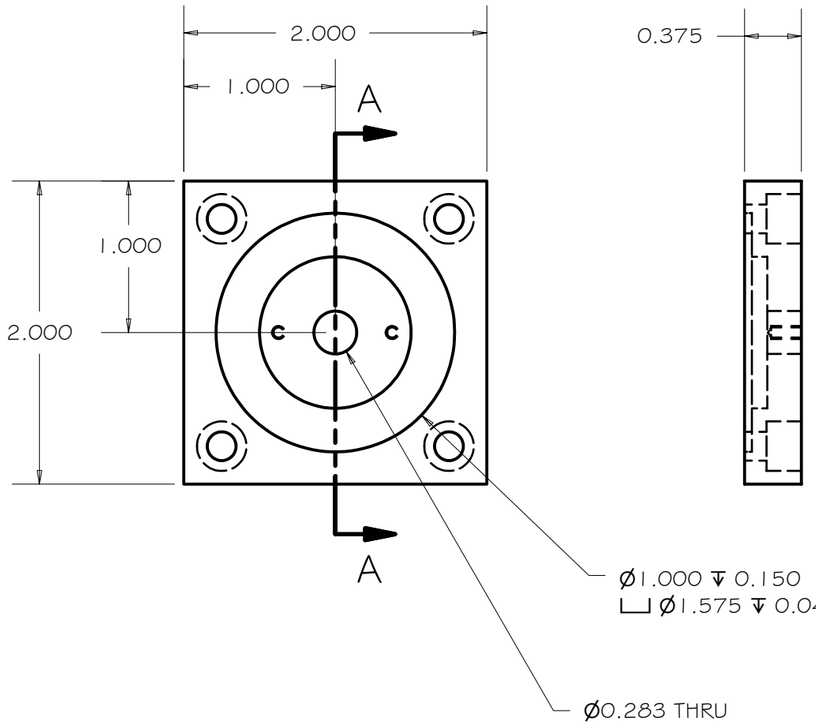
TITLE: GUSSETT, FRAME

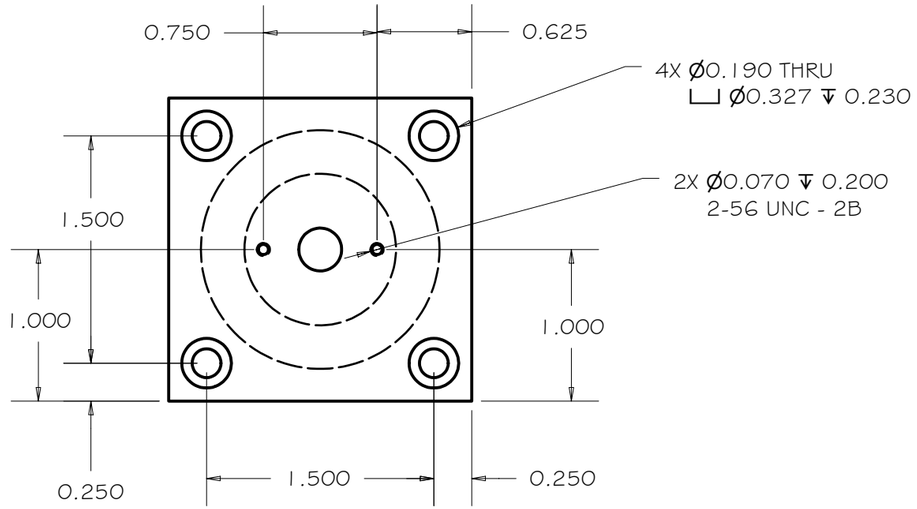
PROJECT CODE:
NEXT ASS'Y: A1100
DWG NO: A1171
REV: A

REV	DRWN	CHK'D	DATE	DESCRIPTION



SECTION A-A
SCALE 1 : 1





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL	

LICK OBSERVATORY

DRAWN	vernon	9/4/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

QTY: 1

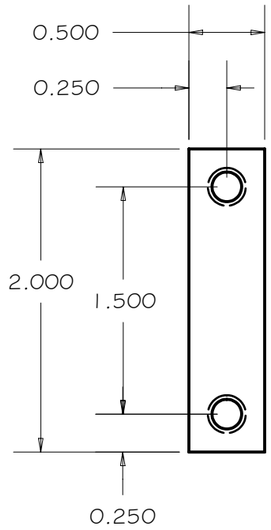
Cassegrain ADC

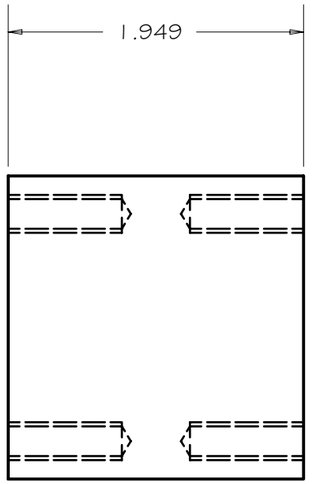
TITLE: BALL SCREW CAP, FWD

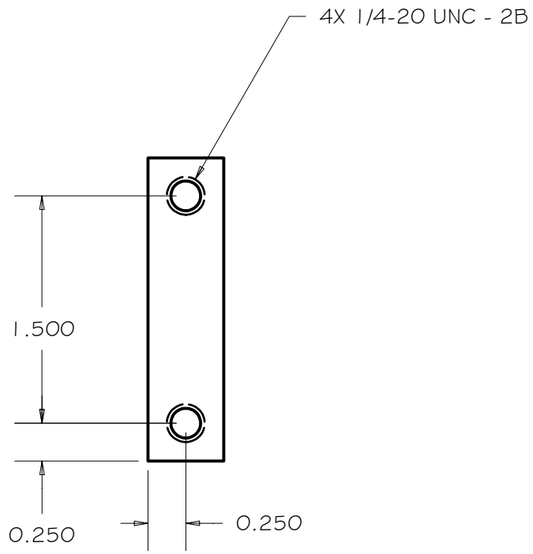
PROJECT CODE	DWG NO	REV
NEXT ASS'Y A1000	A1215	A

1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

LICK OBSERVATORY

DRAWN	vernon	9/4/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

TITLE: SPACER

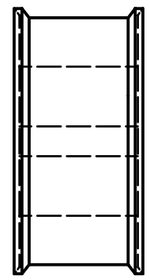
MATERIAL	FINISH
STEEL	

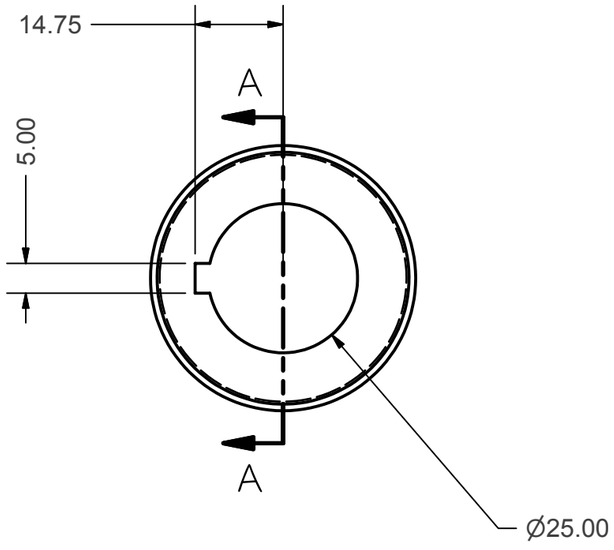
QTY: 1

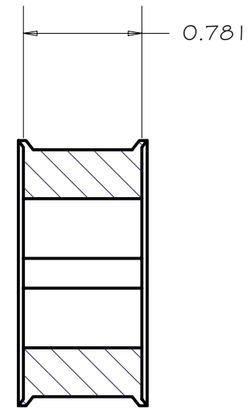
PROJECT CODE	DWG NO	REV
NEXT ASS'Y A1200	A1216	A

1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







SECTION A-A
SCALE 1 : 1

PIC TIMING BELT PULLEY
PT024G08L15T

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN vernon 9/4/2003
CHECKED
DESIGNED vernon
ENGINEER vernon

QTY: 1

Cassegrain ADC

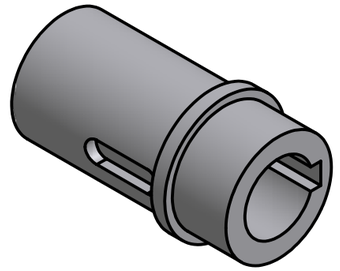
TITLE: PIC PULLEY, MOTOR

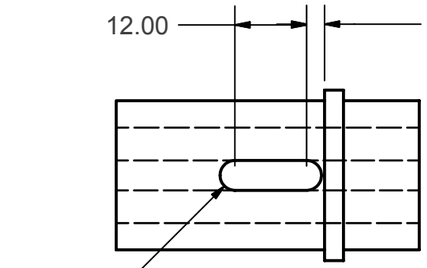
PROJECT CODE | DWG NO A1313 | REV A

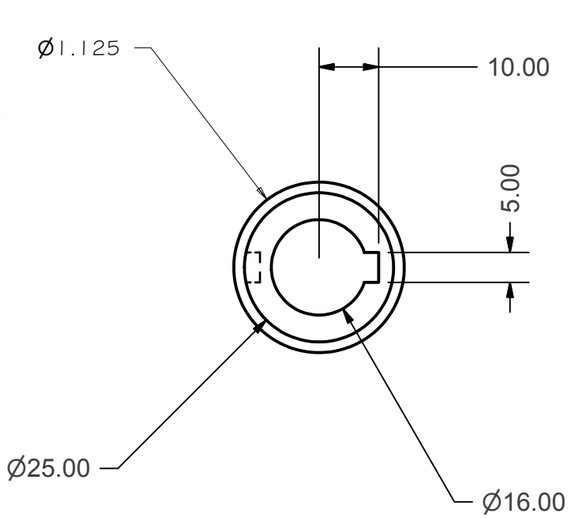
NEXT ASS'Y A1300

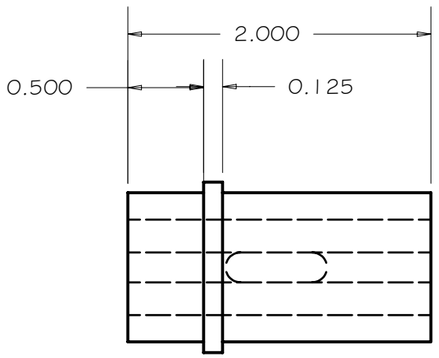
1 / 1

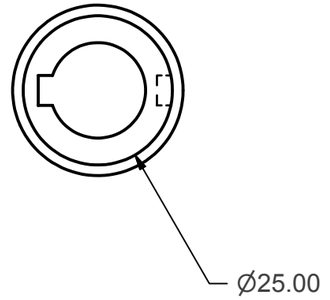
REV	DRWN	CHK'D	DATE	DESCRIPTION











TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 9/4/2003
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

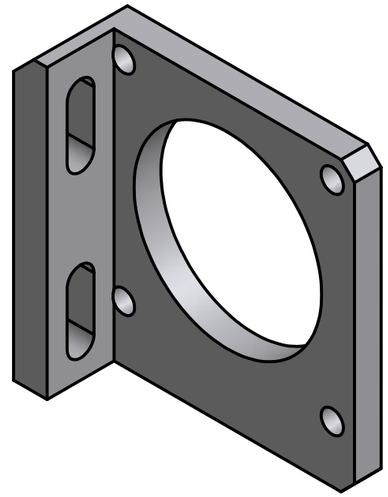
QTY: 1

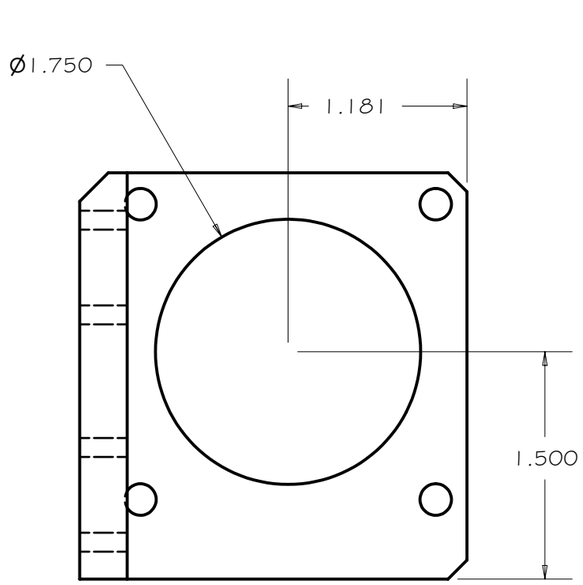
Cassegrain ADC

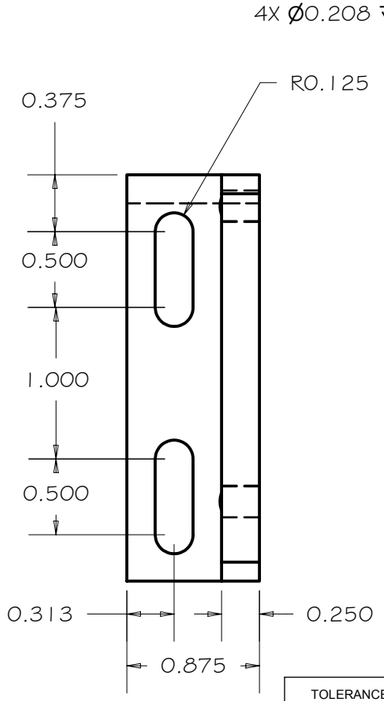
TITLE: SHAFT, MOTOR PULLEY

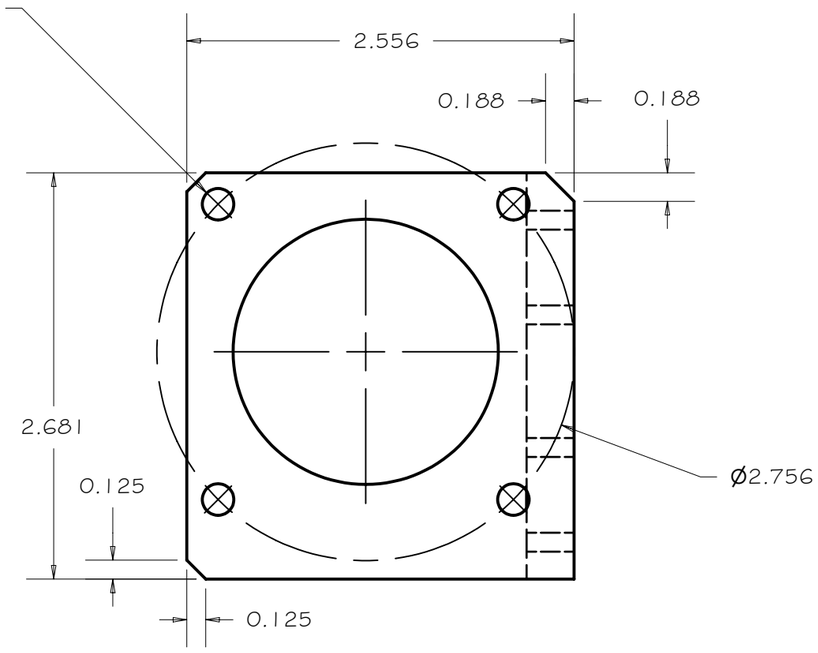
PROJECT CODE:
NEXT ASS'Y: A1300
DWG NO: A1312
REV: A
1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION









TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

QTY: 1

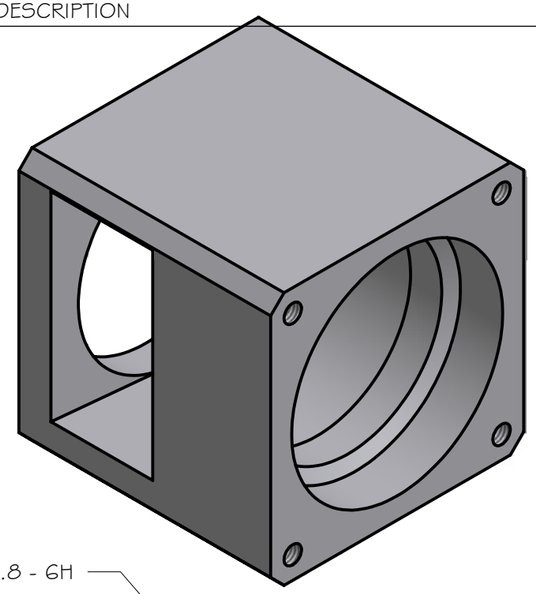
DRAWN	vernon	9/4/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

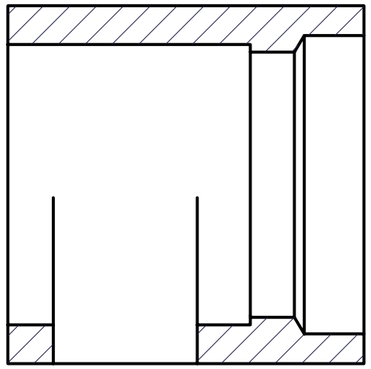
Cassegrain ADC

TITLE: HOUSING COVER

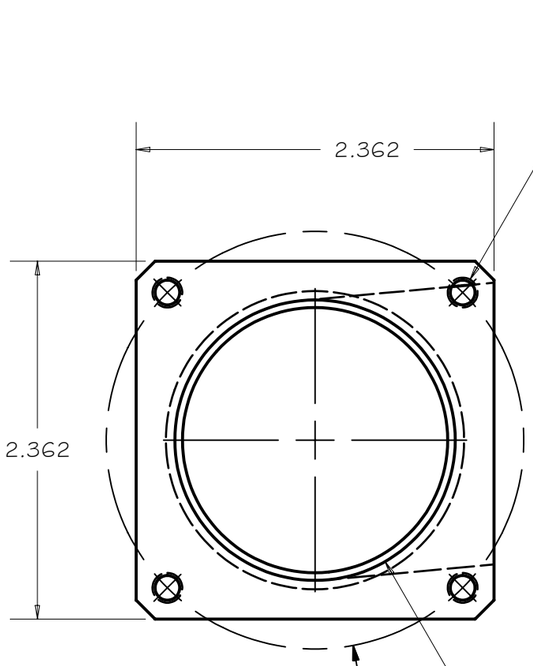
PROJECT CODE:
NEXT ASS'Y: A1300
DWG NO: A1311
REV: A
SHEET 1 / 1

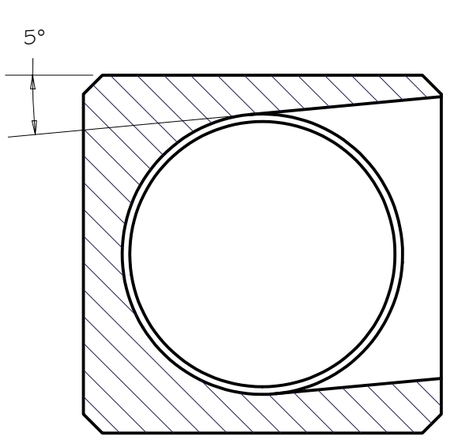
REV	DRWN	CHK'D	DATE	DESCRIPTION



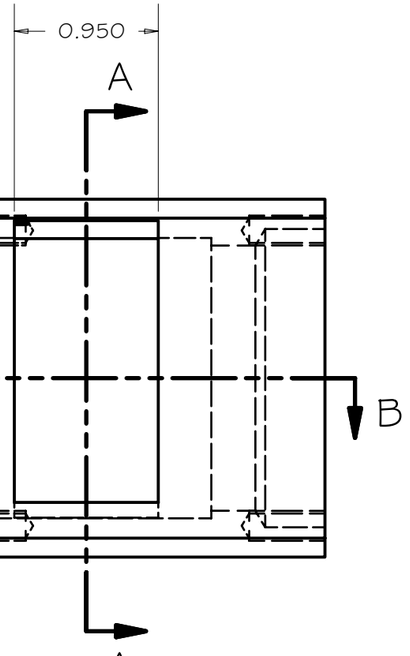


SECTION B-B
SCALE 1 : 1

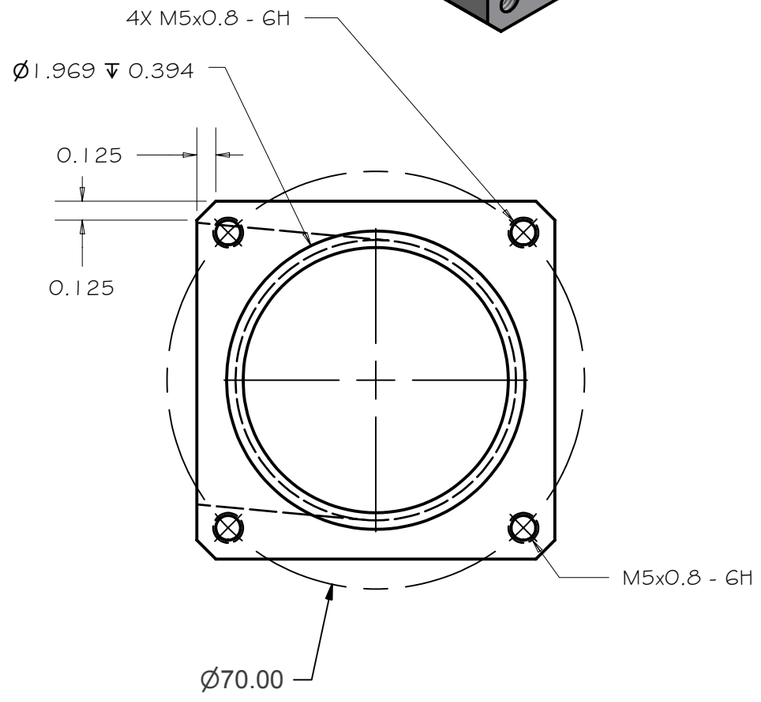




SECTION A-A
SCALE 1 : 1



SCALE 1 : 1



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL	

LICK OBSERVATORY

DRAWN	vernon	9/4/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

QTY: 1

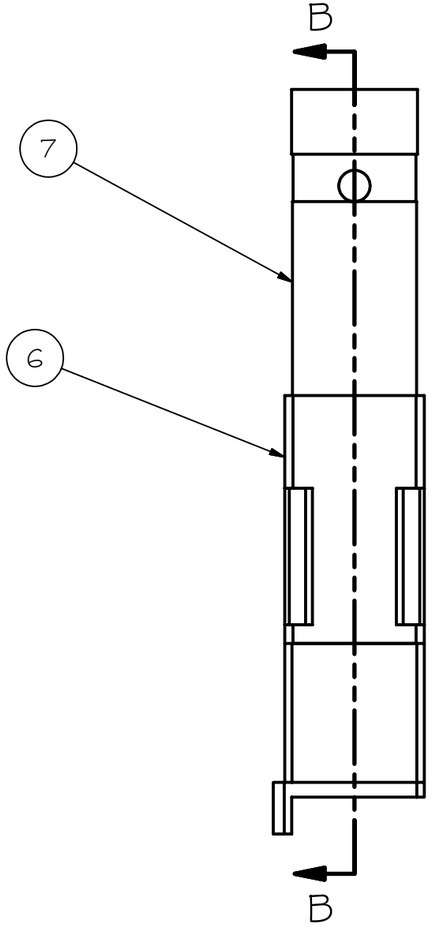
Cassegrain ADC

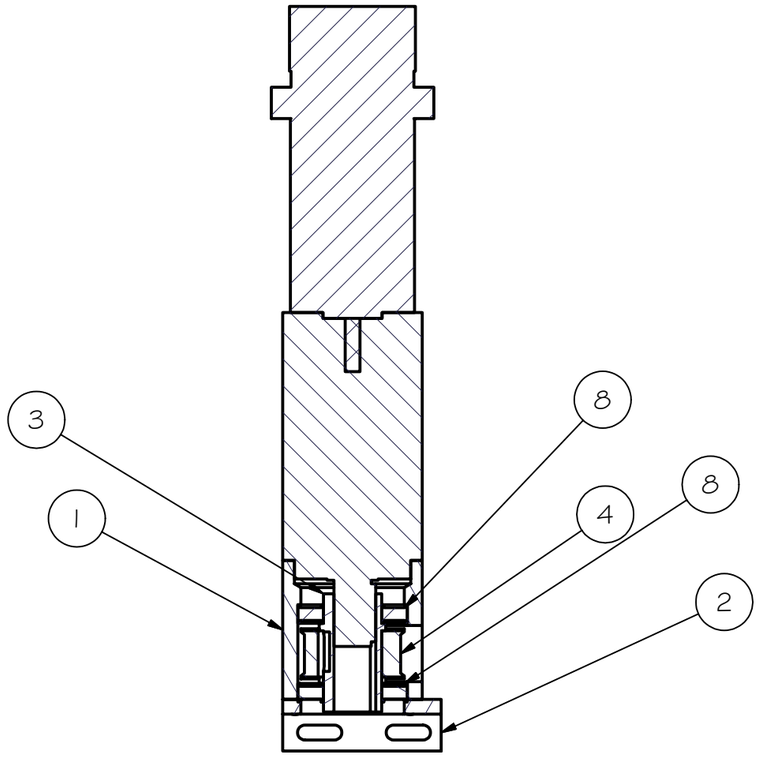
TITLE: PULLEY HOUSING

PROJECT CODE	DWG NO	REV
NEXT ASS'Y A1300	A1310	A

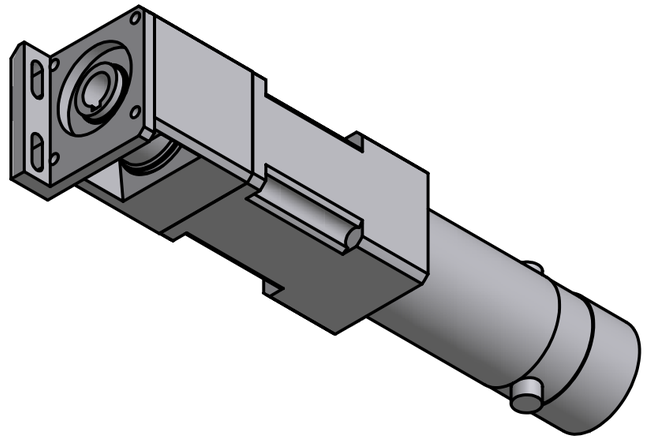
1 / 1

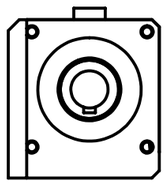
REV	DRWN	CHK'D	DATE	DESCRIPTION





SECTION B-B
SCALE 0.39 : 1





Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A1310	PULLEY HOUSING
2	1	A1311	HOUSING COVER
3	1	A1312	SHAFT, MOTOR PULLEY
4	1	A1313	PIC PULLEY PT026G08L15T, MOTOR
5	1	A1314	BEARING RETAINER
6	1	GEARBOX	BAYSIDE PS-60 GEARBOX
7	1	MOTOR	Galil_50-1000
8	2	skf_16005	SKF 16005

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	8/15/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

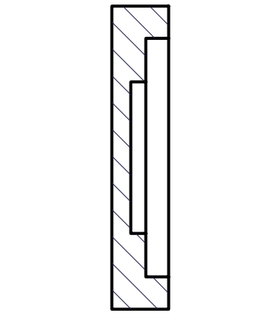
QTY: 1

Cassegrain ADC

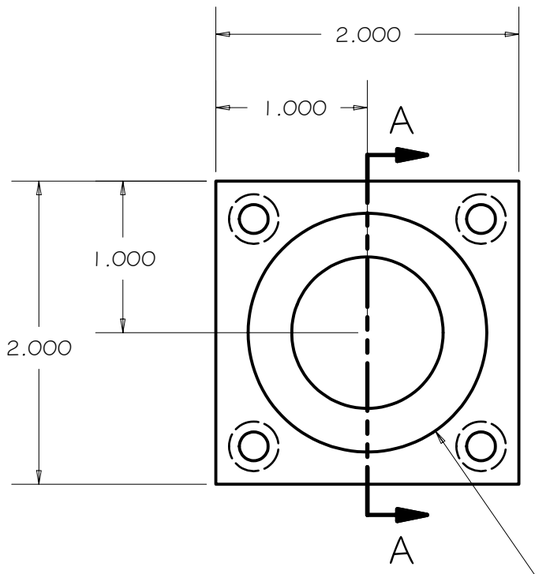
TITLE: MOTOR / GEARBOX ASSEMBLY

PROJECT CODE	DWG NO	REV
NEXT ASS'Y: A1000	A1300	A
		1 / 1

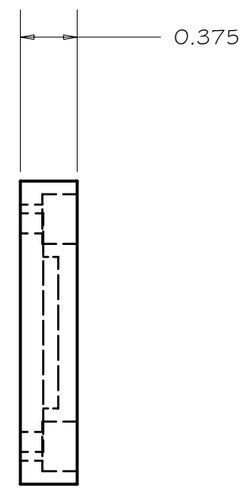
REV	DRWN	CHK'D	DATE	DESCRIPTION

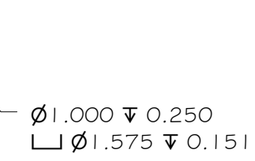


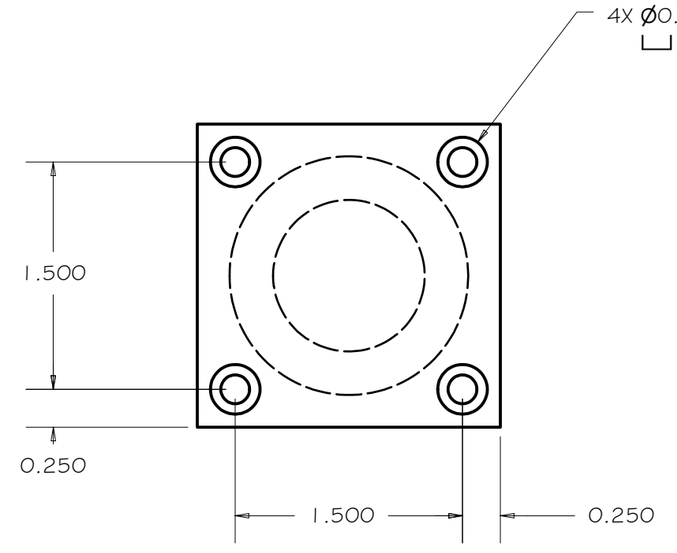
SECTION A-A
SCALE 1 : 1



SCALE 1 : 1







TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/22/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

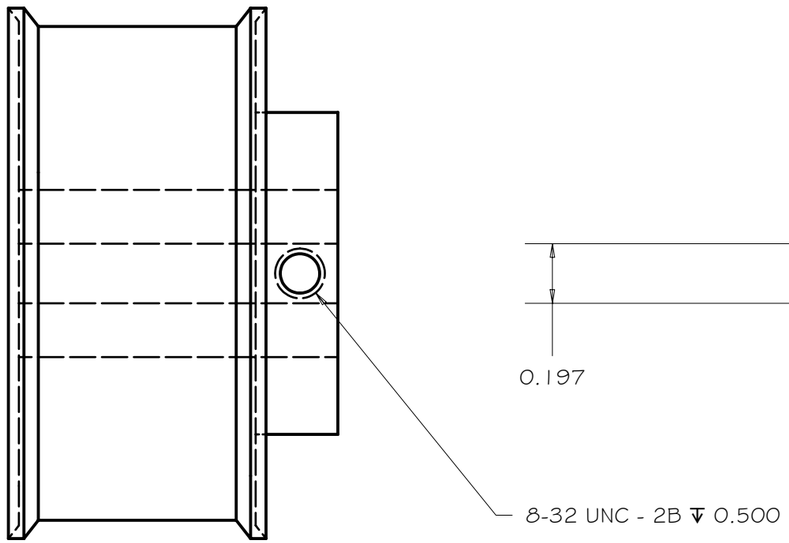
QTY: 1

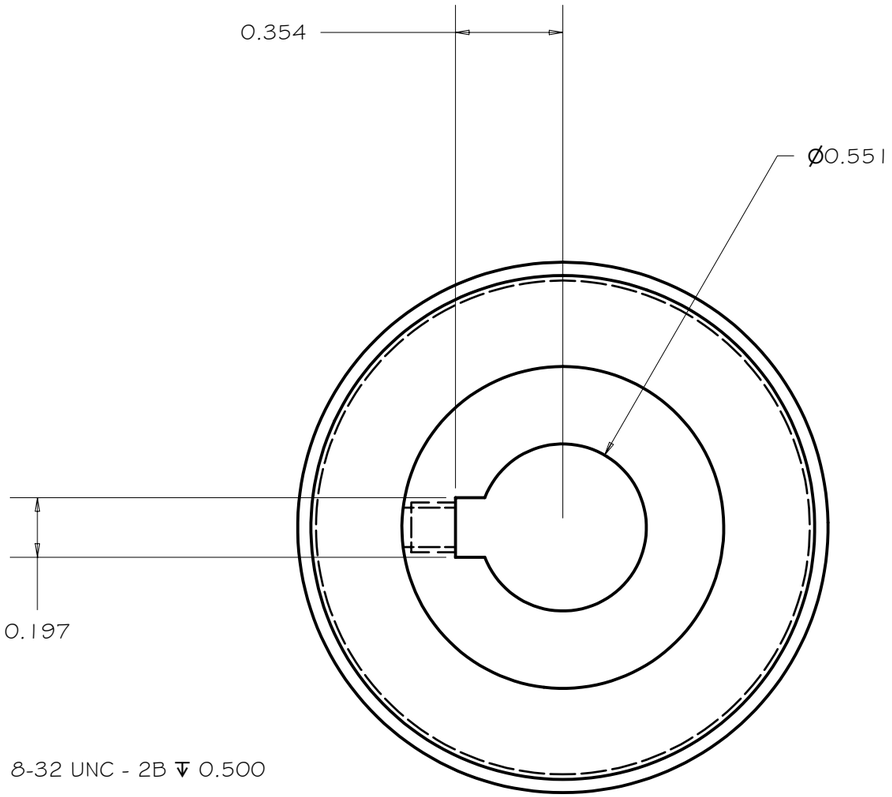
Cassegrain ADC

TITLE: BALL SCREW CAP, AFT

PROJECT CODE:
NEXT ASS'Y: A1000
DWG NO: A1220
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





SCALE 2 : 1

PIC TIMING BELT PULLEY
PT024G08L15T

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN vernon 9/4/2003
CHECKED
DESIGNED vernon
ENGINEER vernon

QTY: 1

Cassegrain ADC

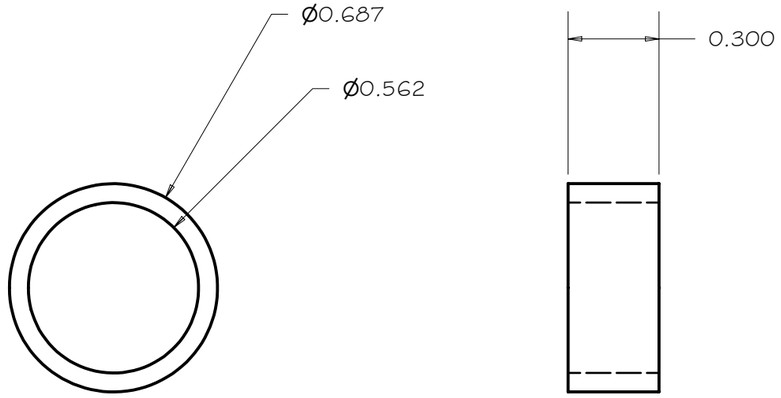
TITLE: PIC PULLEY, BALL SCREW

PROJECT CODE | DWG NO A1219 | REV A

NEXT ASS'Y A1200

1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL	

LICK OBSERVATORY

DRAWN	vernon	9/4/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

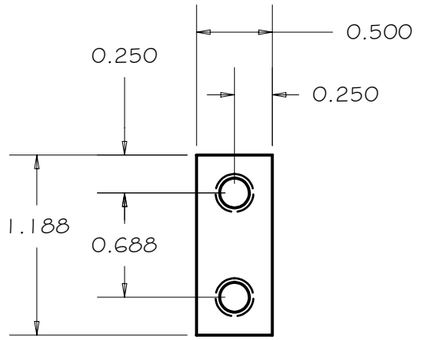
QTY: 1

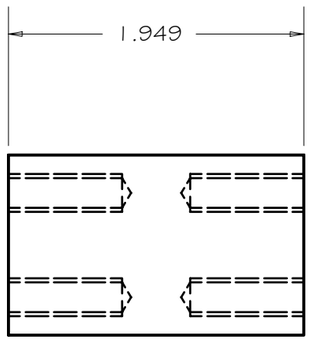
Cassegrain ADC

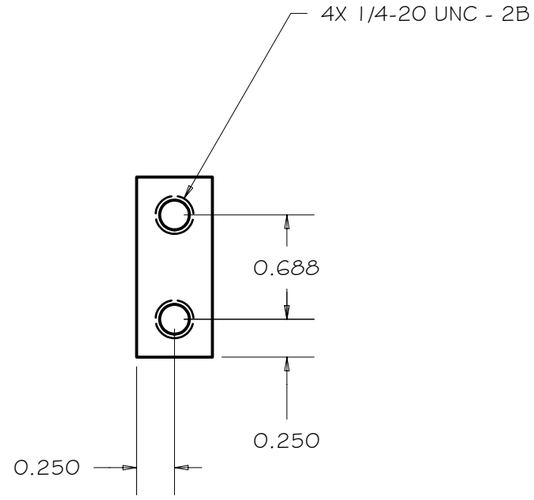
TITLE: SLEEVE

PROJECT CODE	DWG NO	REV
NEXT ASS'Y A1200	A1218	A 1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION







SCALE 1 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 9/4/2003
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

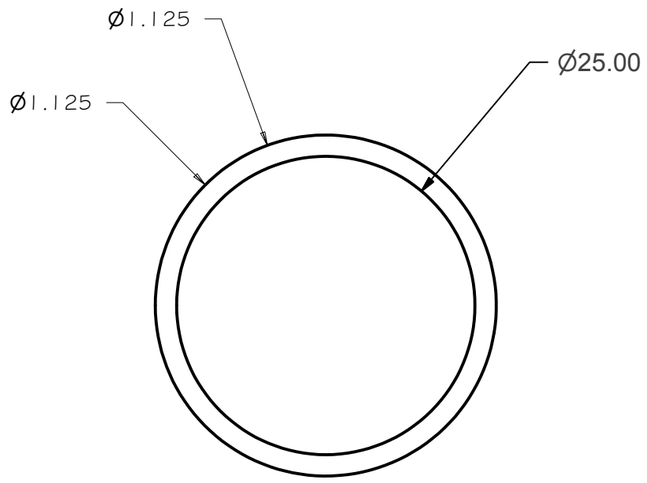
QTY: 1

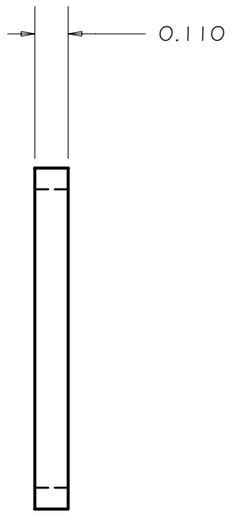
Cassegrain ADC

TITLE: SPACER

PROJECT CODE:
NEXT ASS'Y: A1200
DWG NO: A1217
REV: A
1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION





SCALE 2 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/22/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

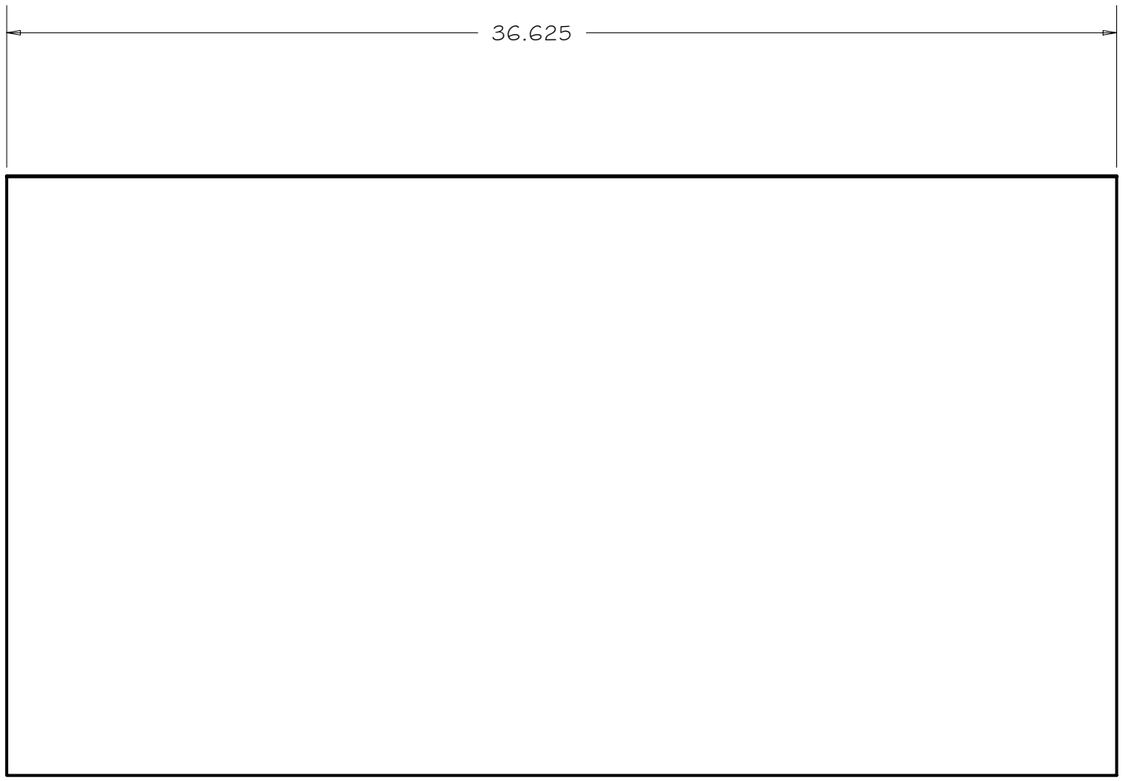
QTY : 1

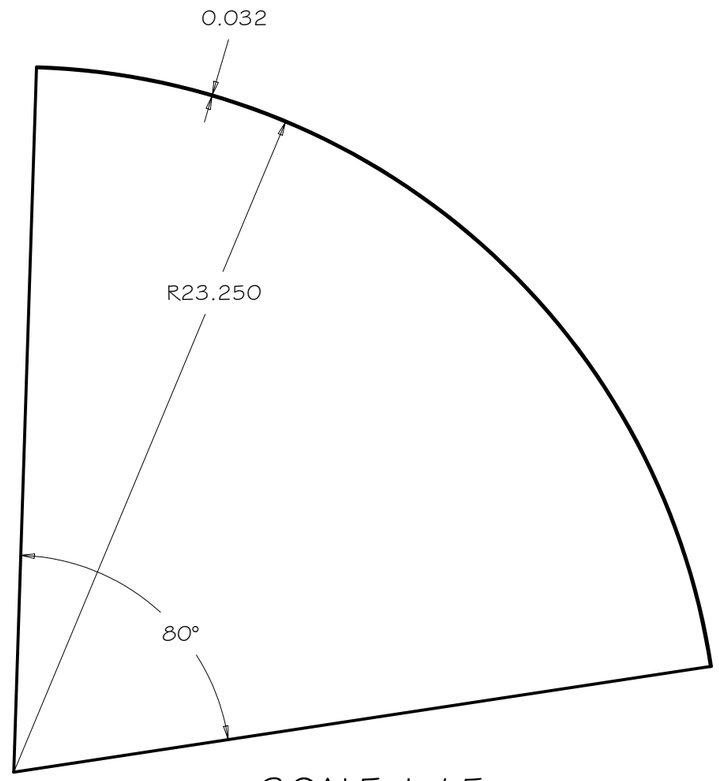
Cassegrain ADC

TITLE: BEARING RETAINER

PROJECT CODE:
NEXT ASS'Y: A1300
DWG NO: A1314
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





SCALE 1 / 5

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: 6061 T6 ALUMINUM
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/23/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

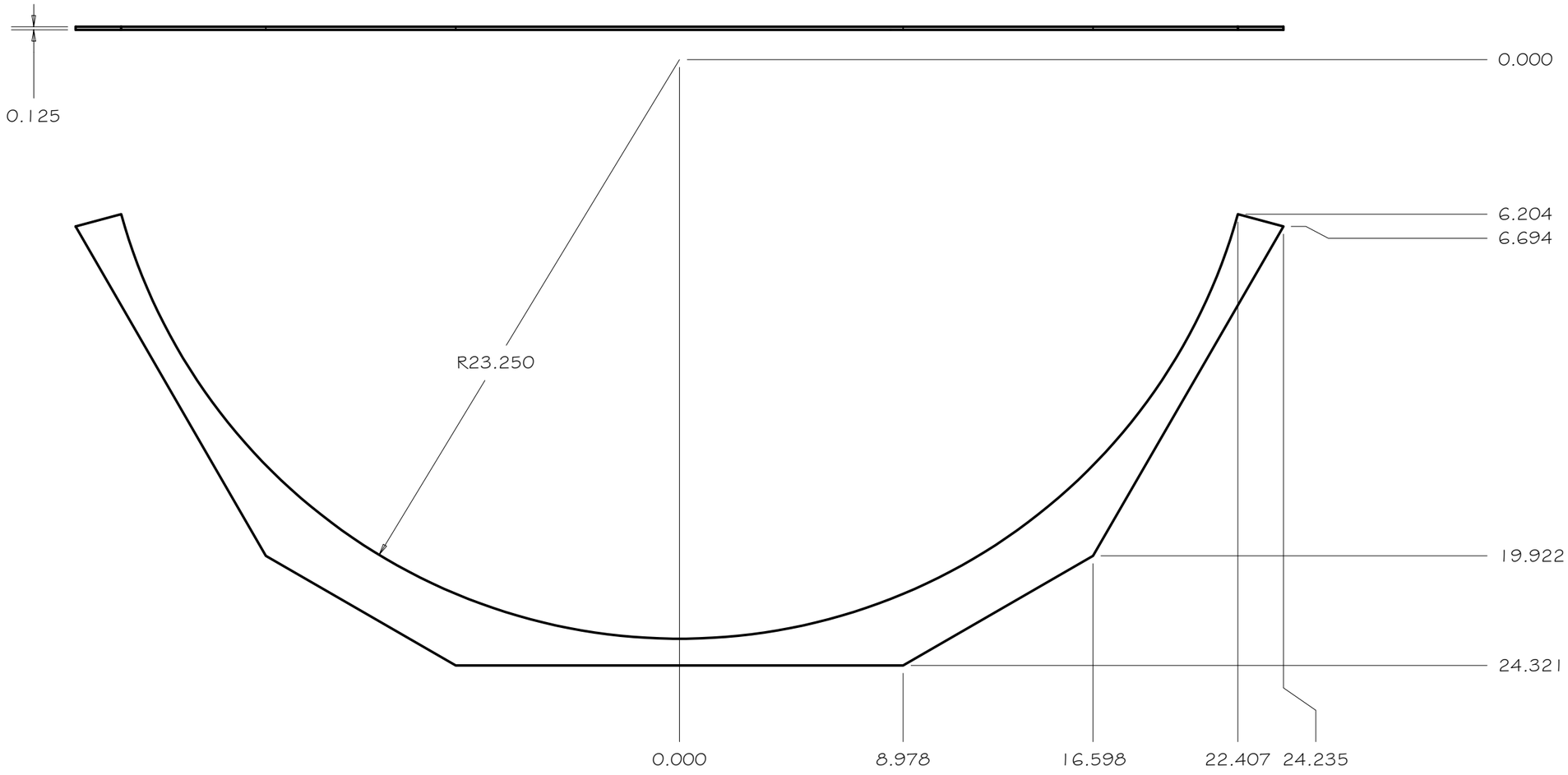
QTY: 1

Cassegrain ADC

TITLE: FWD CLADDING UPPER

PROJECT CODE:
NEXT ASS'Y: A0001
DWG NO: A1501
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: 6061-T6 ALUMINUM
FINISH:

LICK OBSERVATORY

QTY: 1

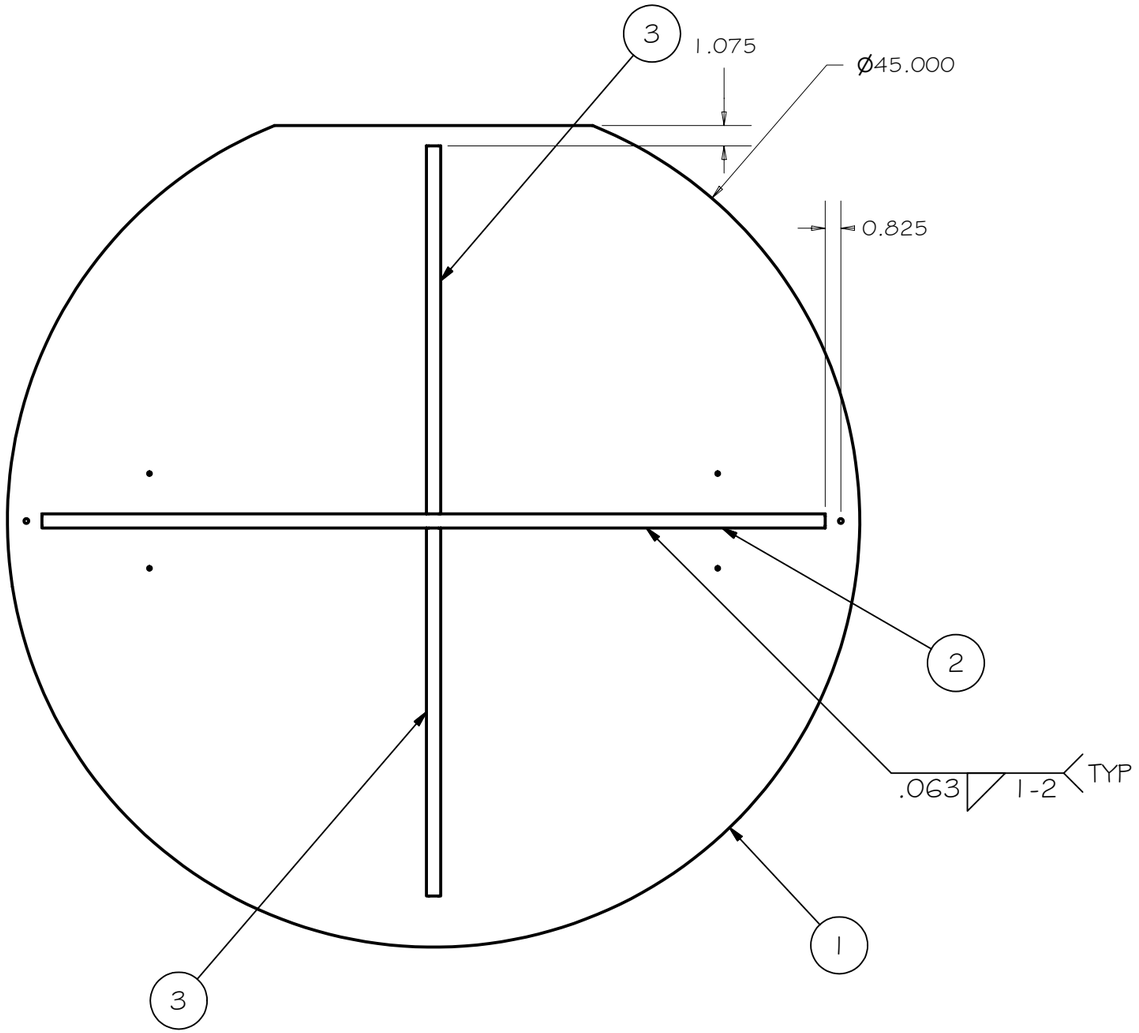
DRAWN	vernon	3/23/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

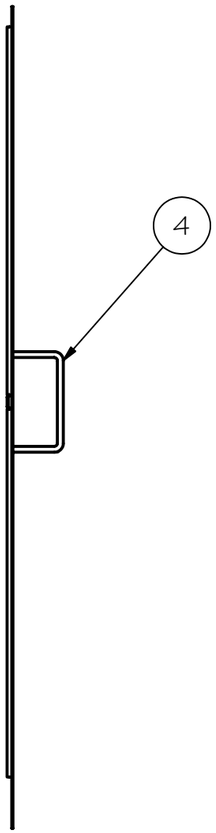
Cassegrain ADC

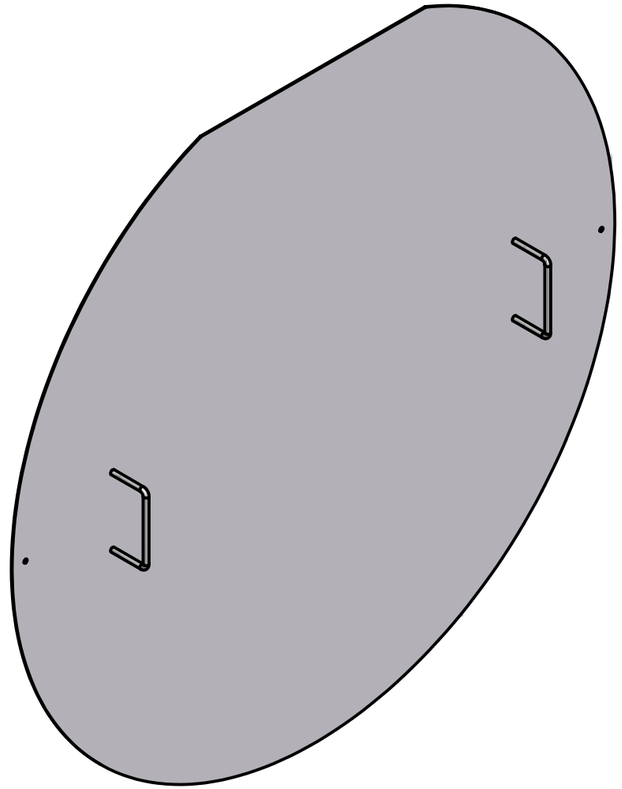
TITLE: CLADDING PLATE, FWD UPPER

PROJECT CODE:
NEXT ASS'Y: A1513
DWG NO: A1511
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







SCALE 1 / 8

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A1537	COVER, PLATE
2	1	A1538	COVER STIFFENER, LONG
3	2	A1539	COVER STIFFENER, SHORT
4	2	drawer_pull	

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: 6061 T6 ALUMINUM
FINISH:

LICK OBSERVATORY

QTY: 2

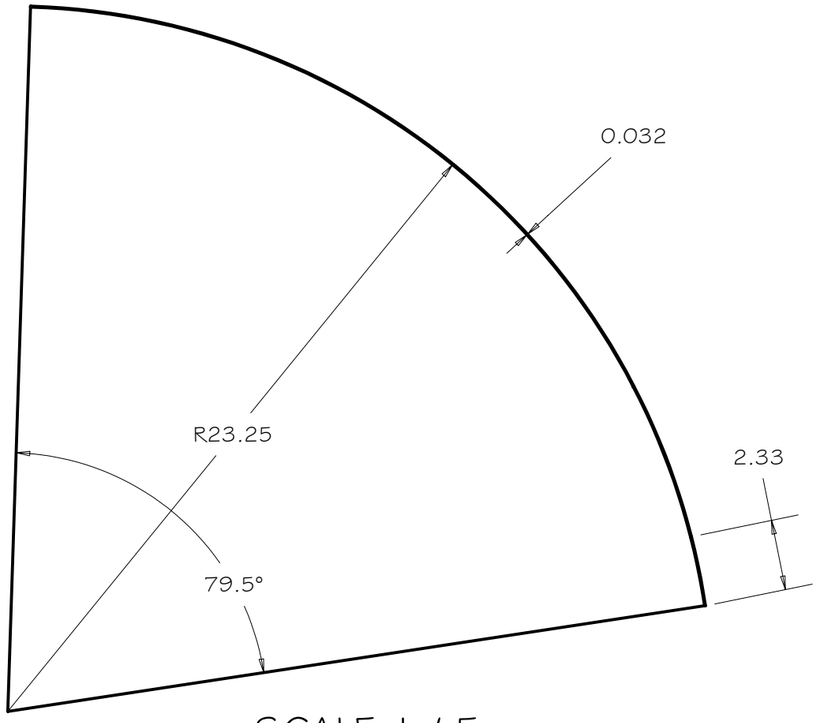
DRAWN	vernon	9/4/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

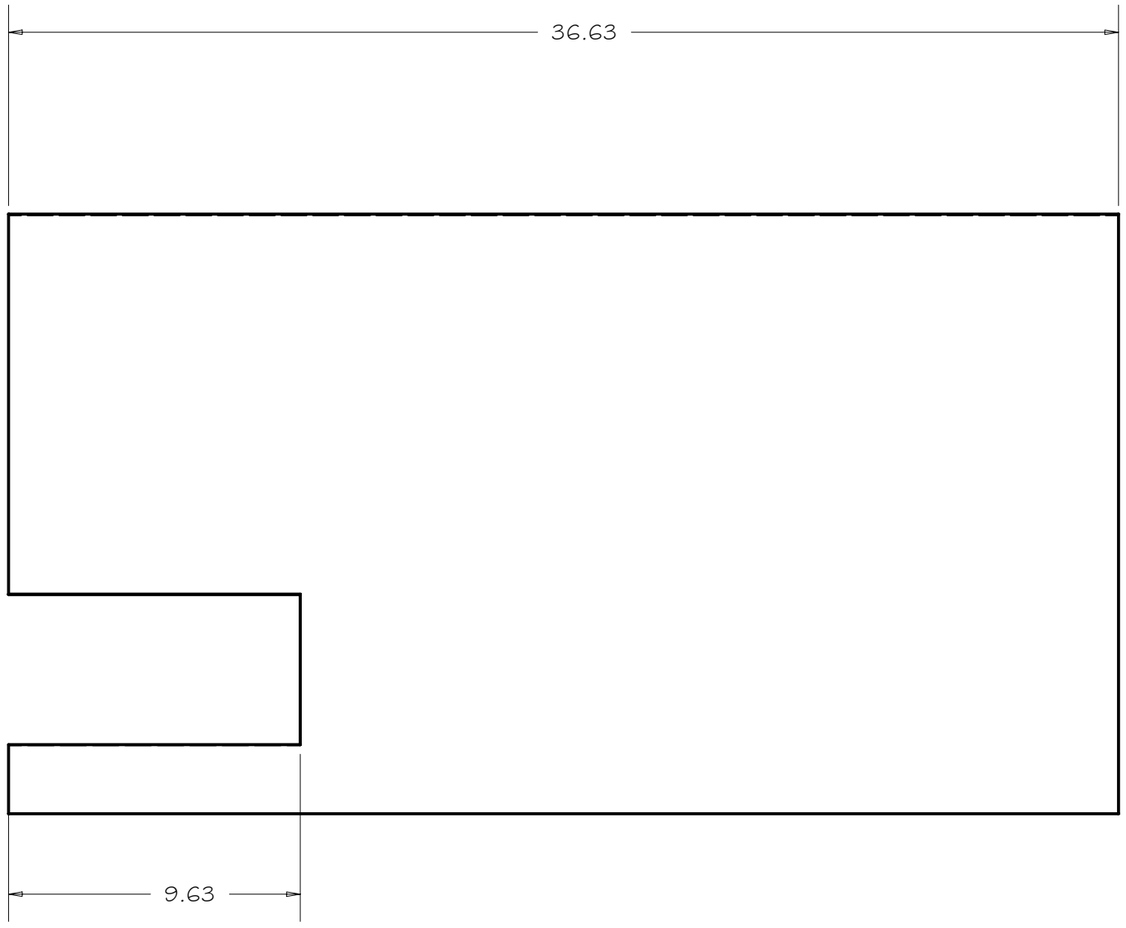
TITLE: COVER

PROJECT CODE:
NEXT ASS'Y: A0001
DWG NO: A1510
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 1 / 5



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: 6061 T6 ALUMINUM
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/23/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

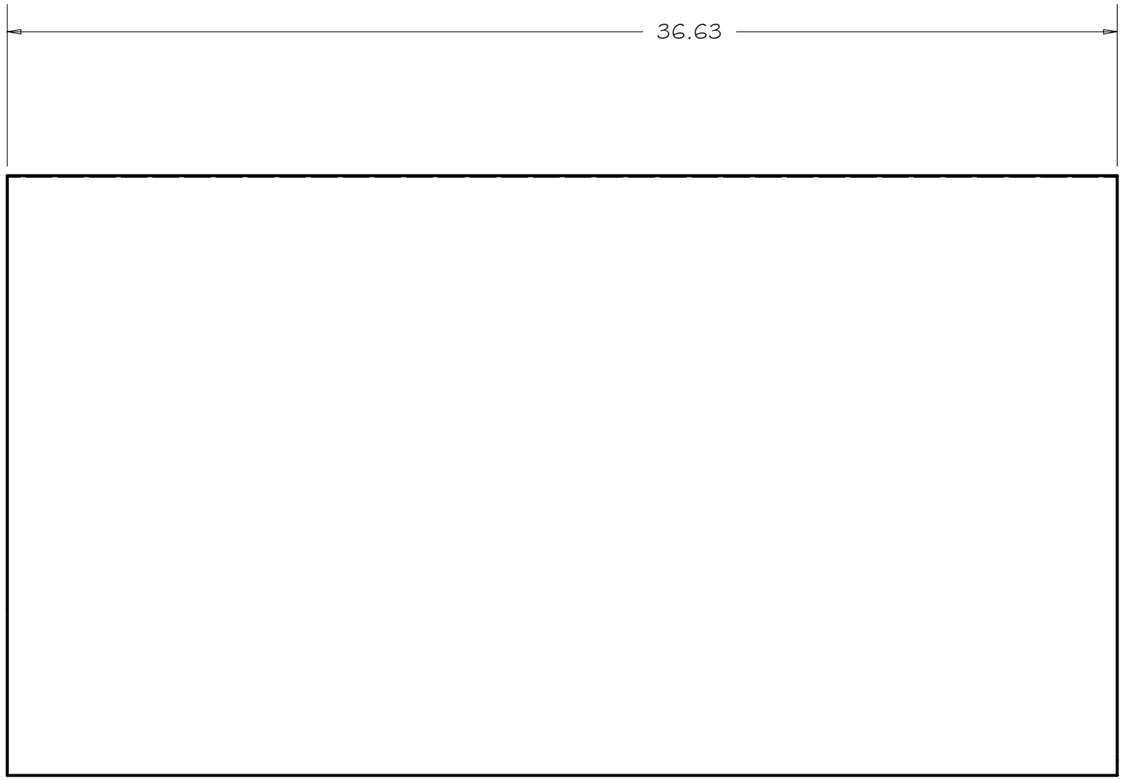
QTY: 1

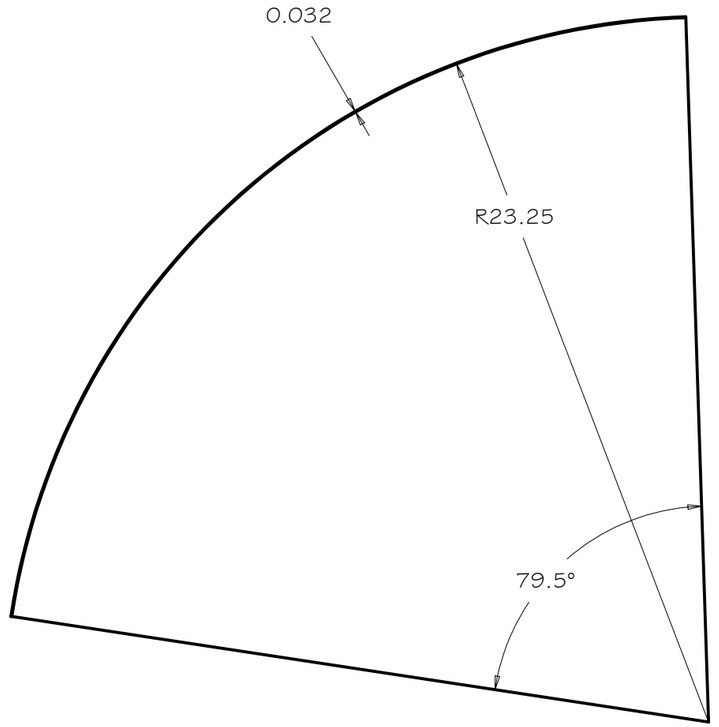
Cassegrain ADC

TITLE: AFT CLADDING UPPER

PROJECT CODE:
NEXT ASS'Y: A0001
DWG NO: A1508
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: 6061 T6 ALUMINUM
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/23/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

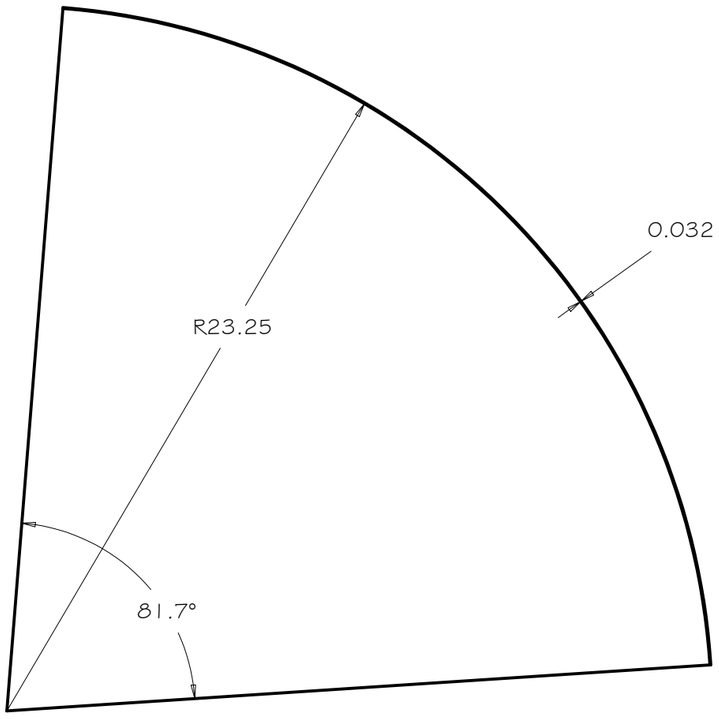
QTY: 1

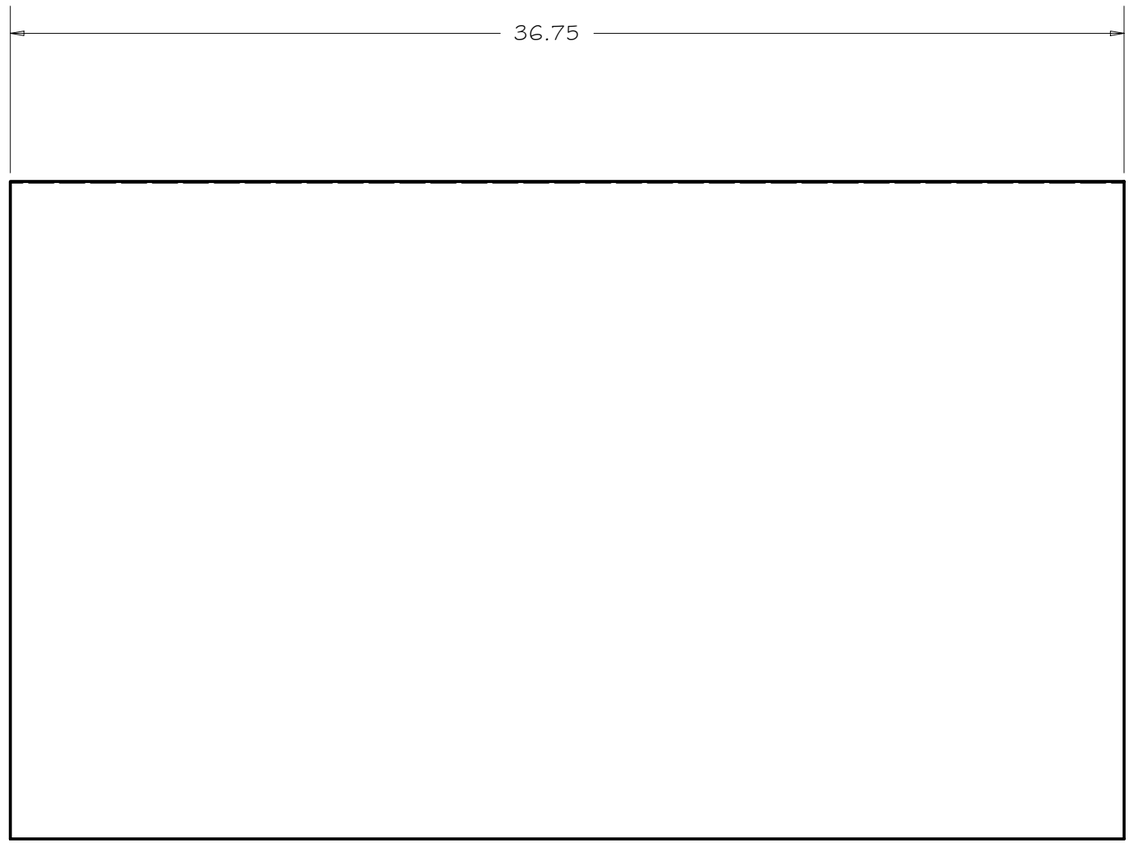
Cassegrain ADC

TITLE: FWD CLADDING UPPER

PROJECT CODE:
NEXT ASS'Y: A0001
DWG NO: A1507
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





SCALE 1 / 5

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: 6061 T6 ALUMINUM
FINISH:

LICK OBSERVATORY

QTY: 1

DRAWN	vernon	3/23/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

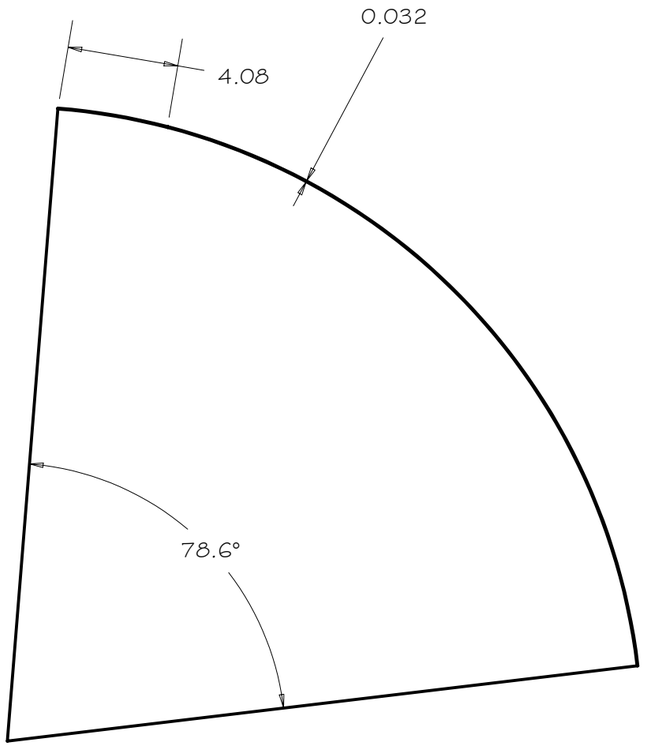
TITLE: FWD CLADDING LOWER

PROJECT CODE:
NEXT ASS'Y: A0001

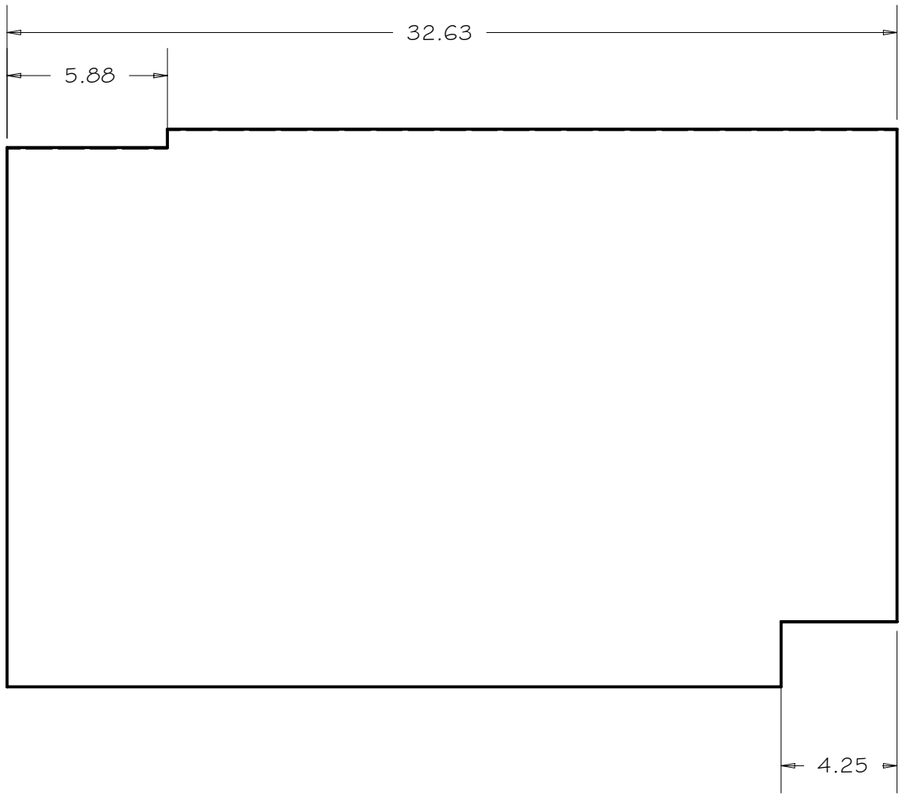
DWG NO: A1506

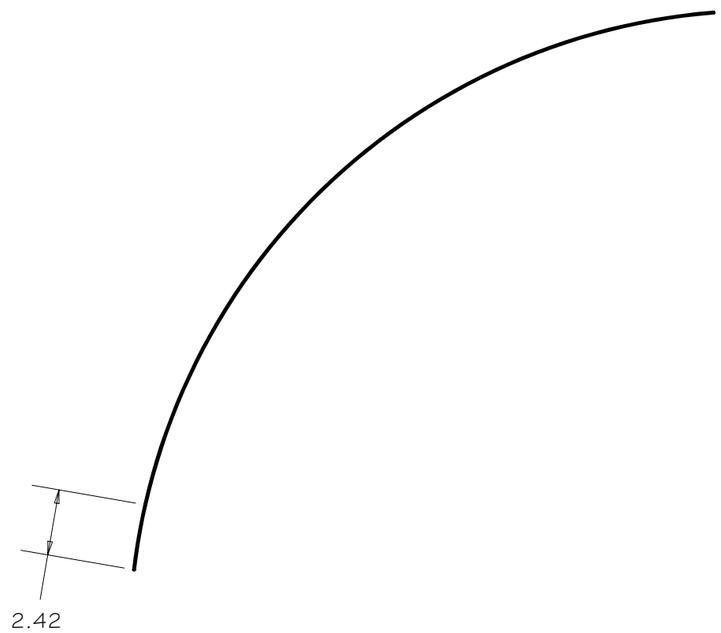
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 0.18 : 1





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: 6061 T6 ALUMINUM
FINISH:

LICK OBSERVATORY

DRAWN	vernon	3/23/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

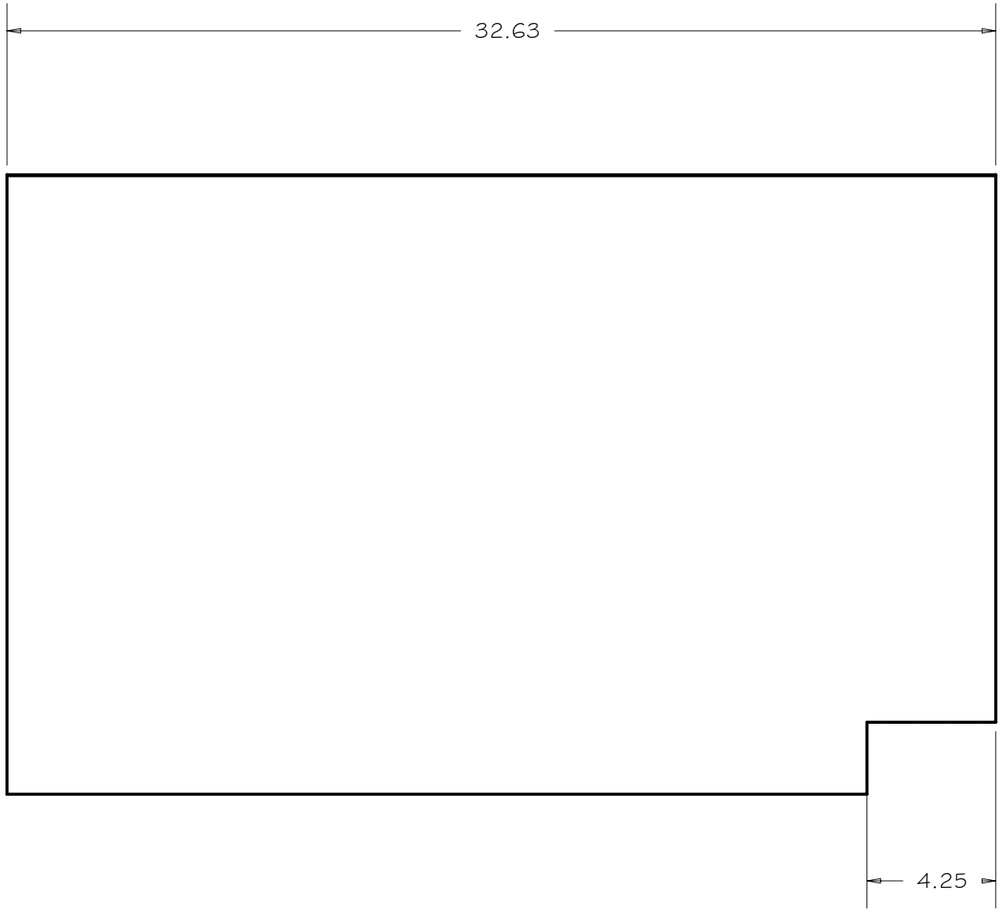
QTY: 1

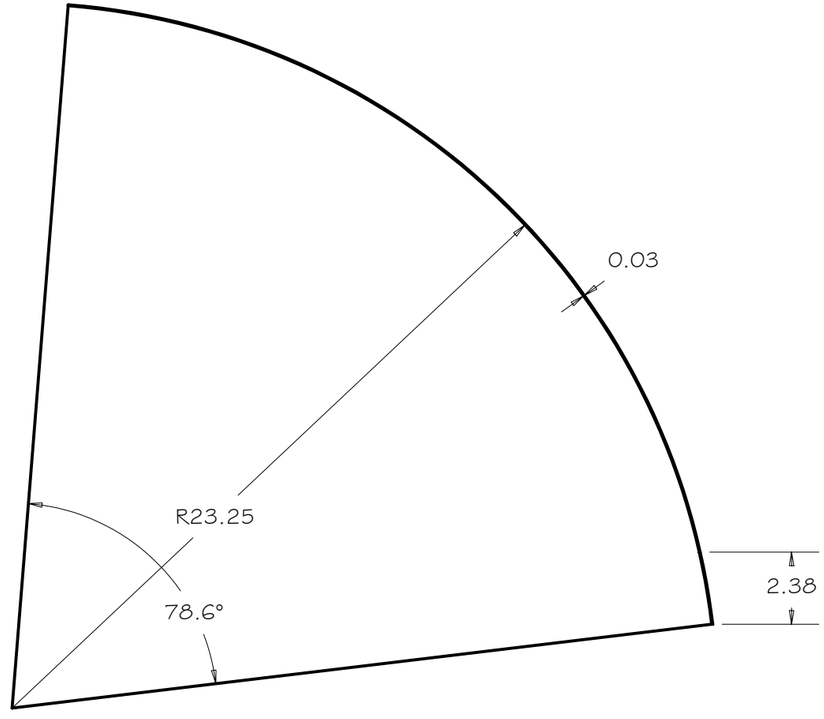
Cassegrain ADC

TITLE: AFT CLADDING LOWER

PROJECT CODE:
NEXT ASS'Y: A0001
DWG NO: A1505
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





SCALE 1 / 5

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: 6061 T6 ALUMINUM
FINISH:

LICK OBSERVATORY

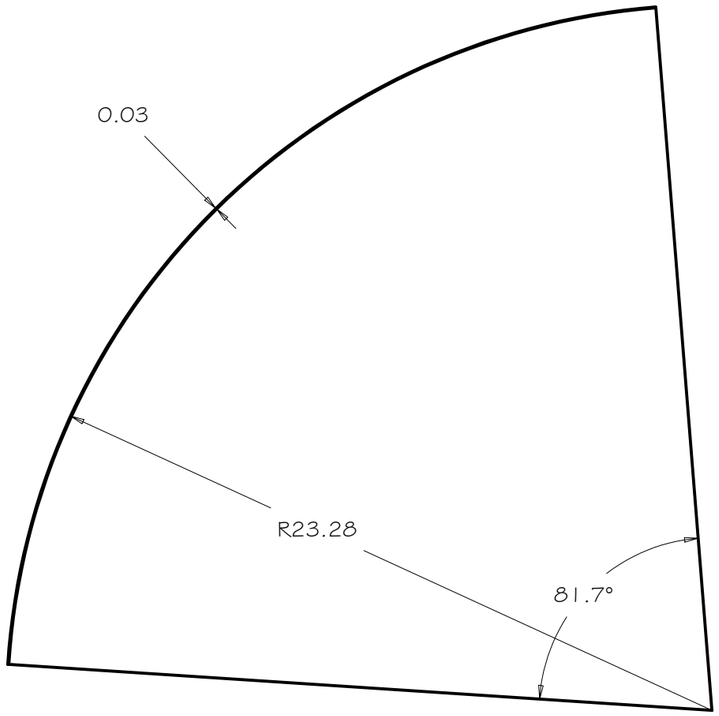
DRAWN: vernon 3/23/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon
QTY: 1

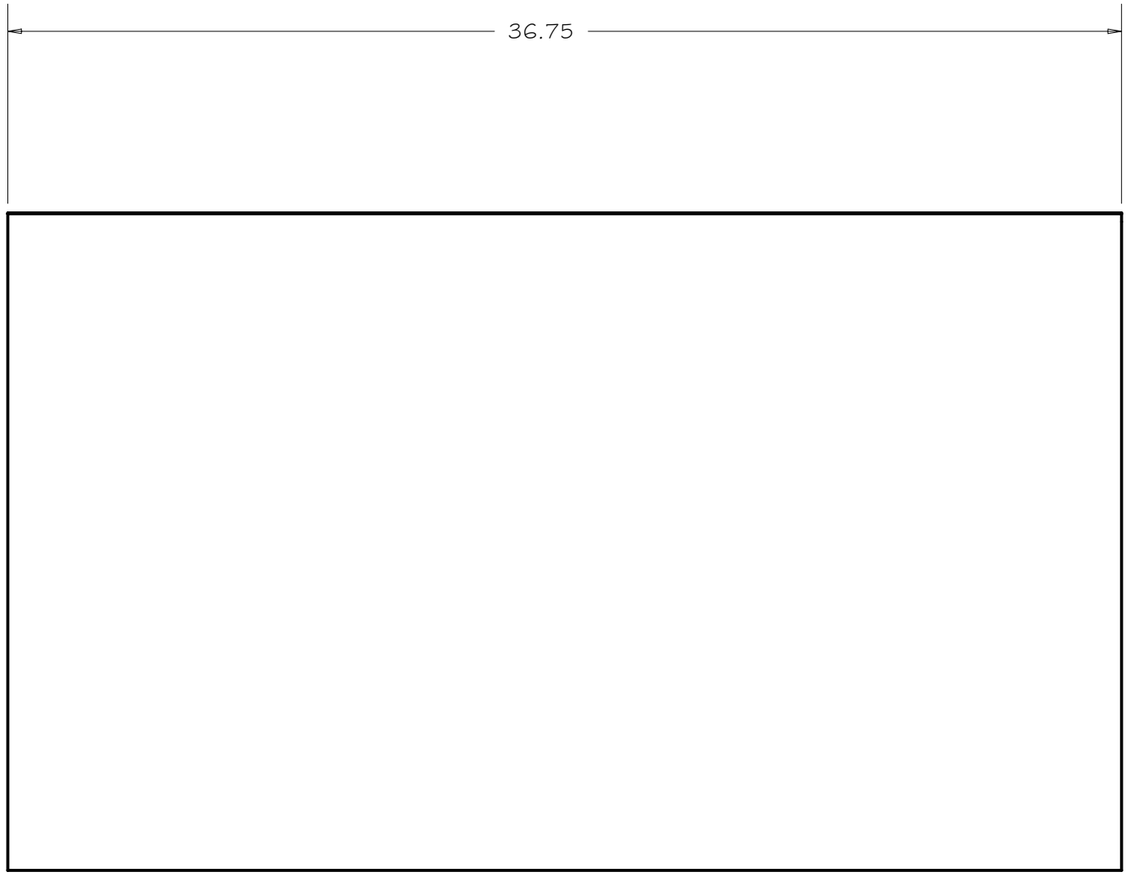
Cassegrain ADC

TITLE: AFT CLADDING LOWER

PROJECT CODE:
NEXT ASS'Y: A0001
DWG NO: A1504
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL

FINISH

LICK OBSERVATORY

DRAWN	vernon	3/23/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

TITLE: FWD CLADDING LOWER

PROJECT CODE

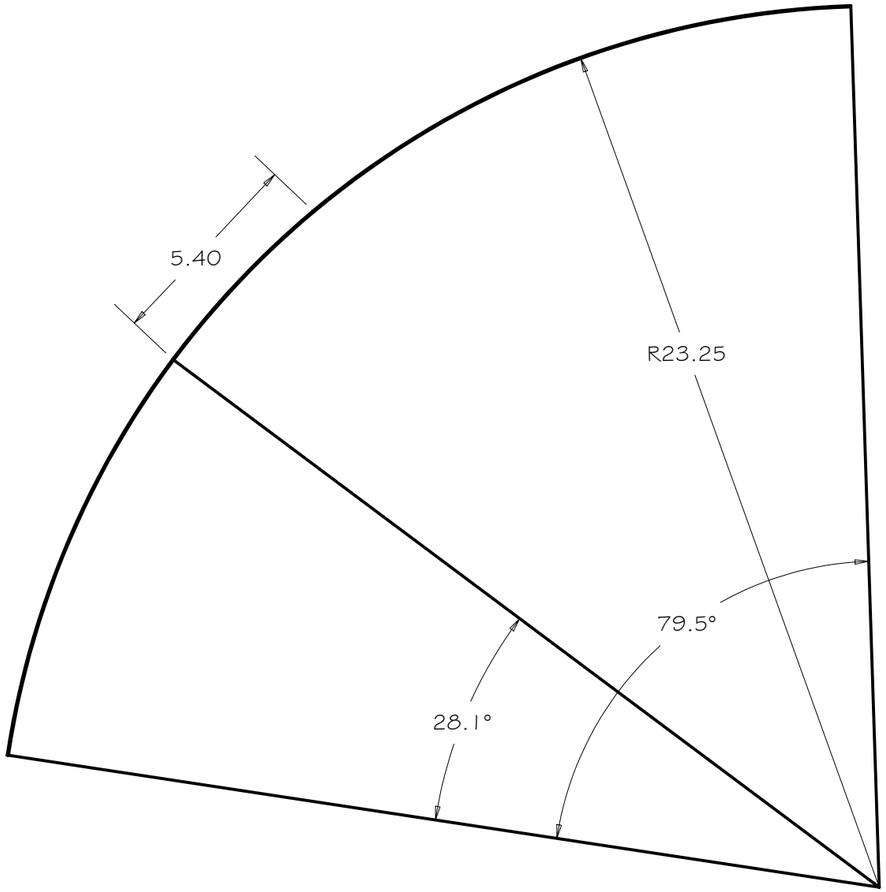
DWG NO: A1503

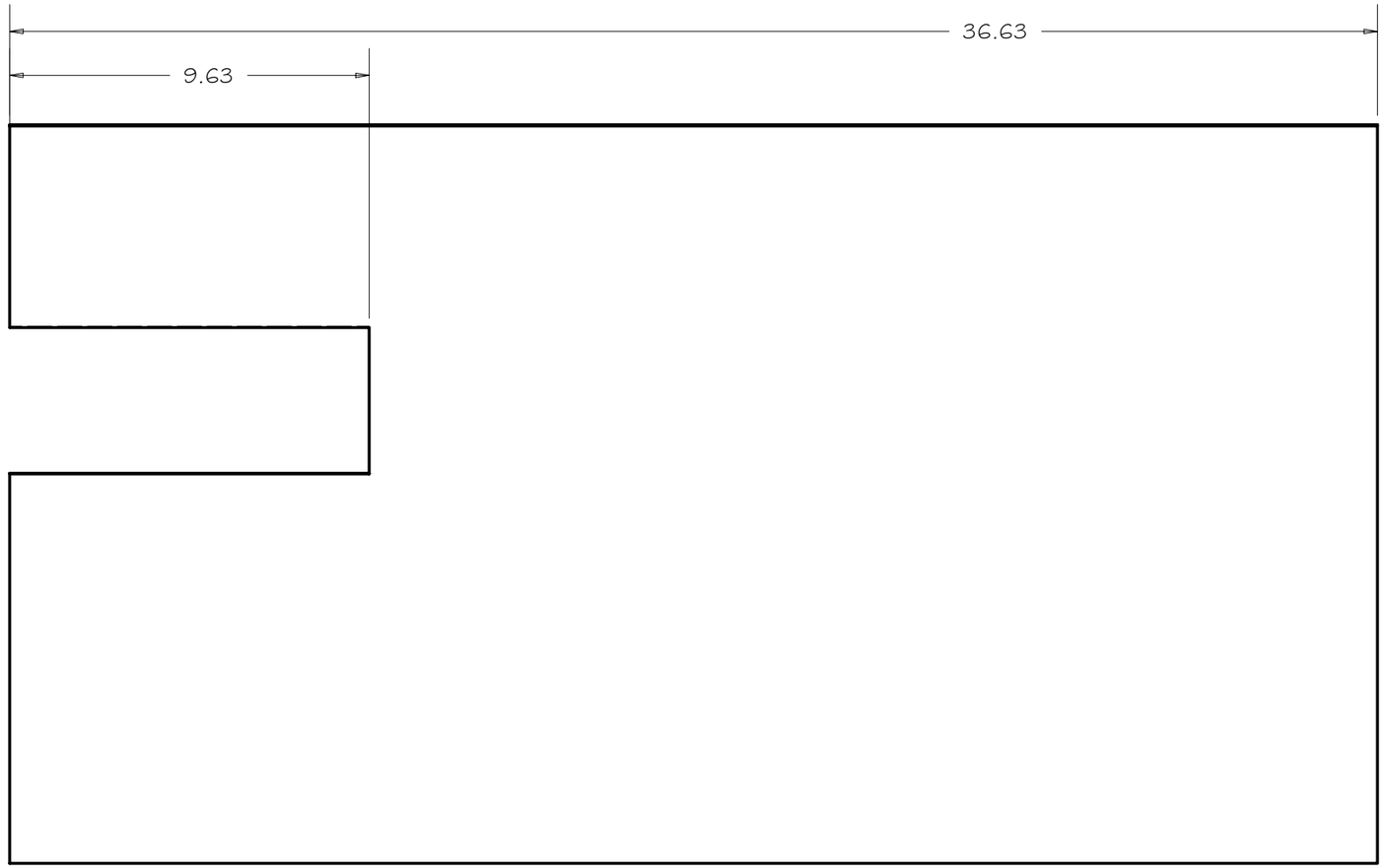
REV: A

NEXT ASS'Y: A0001

1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: 6061 T6 ALUMINUM
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/23/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

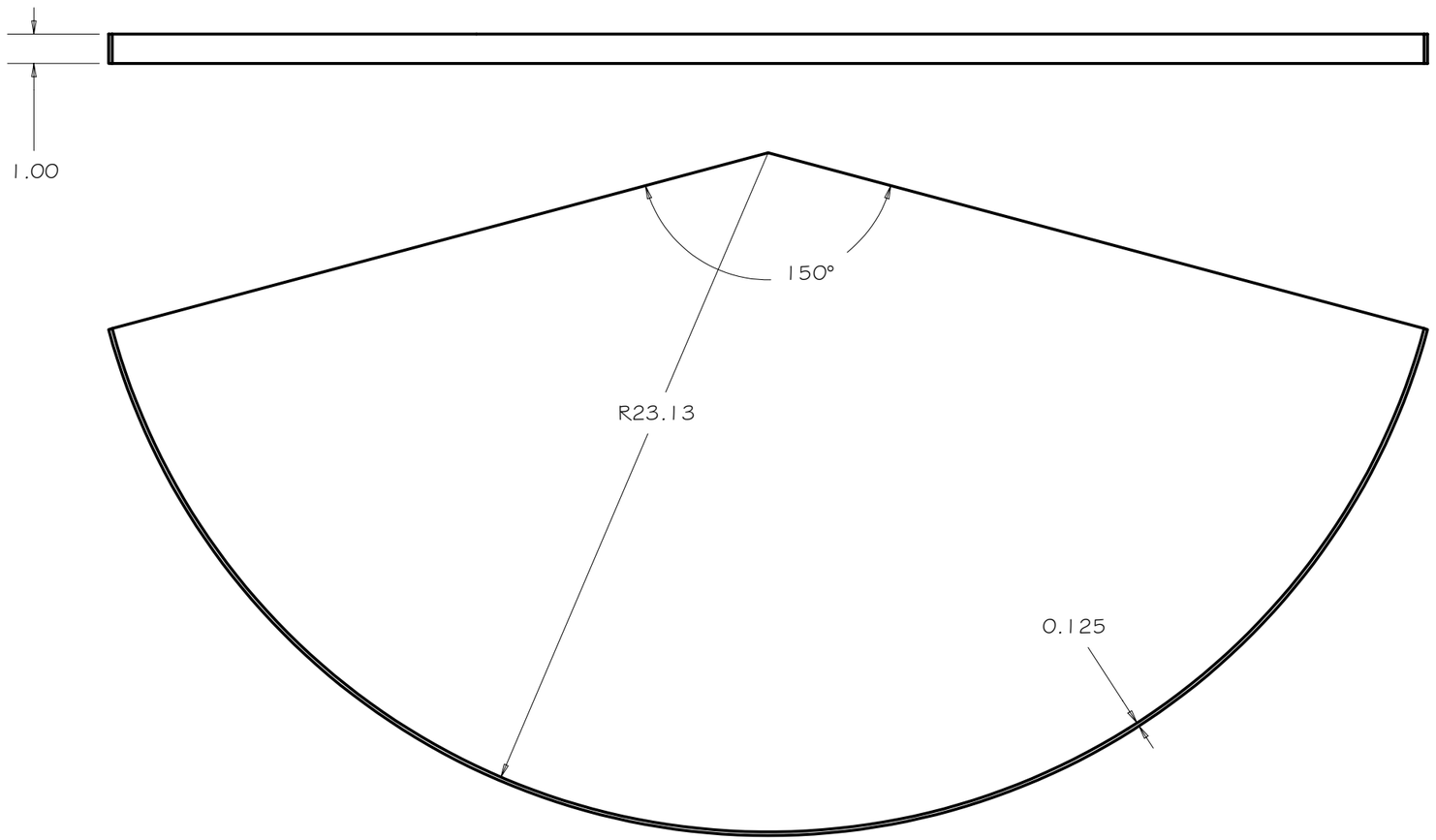
QTY: 1

Cassegrain ADC

TITLE: AFT CLADDING UPPER

PROJECT CODE:
NEXT ASS'Y: A0001
DWG NO: A1502
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 1 / 5

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: 6061-T6 ALUMINUM
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/23/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

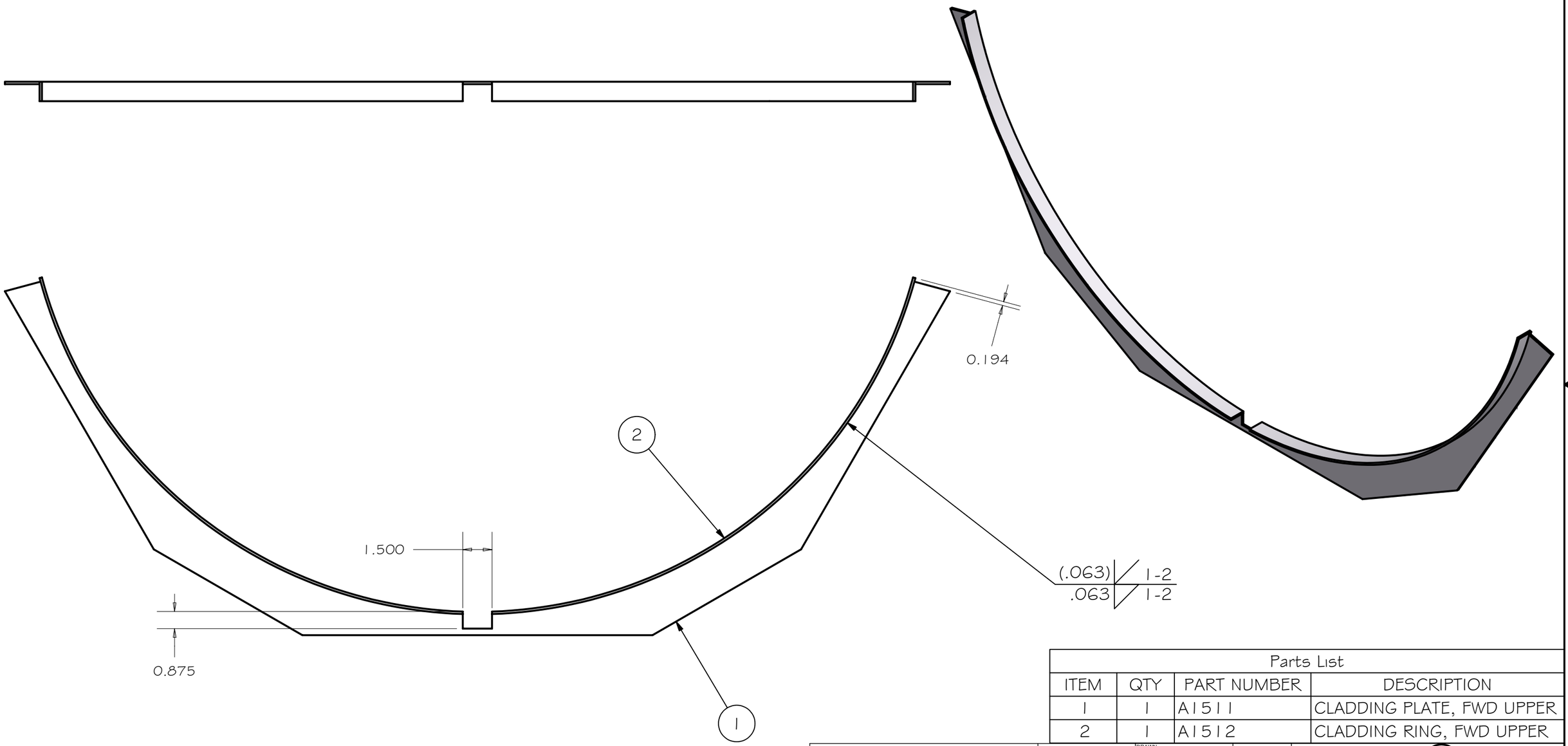
QTY: 1

Cassegrain ADC

TITLE: CLADDING RING, FWD UPPER

PROJECT CODE:
NEXT ASS'Y: A1513
DWG NO: A1512
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A1511	CLADDING PLATE, FWD UPPER
2	1	A1512	CLADDING RING, FWD UPPER

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN vernon 3/23/2004
CHECKED
DESIGNED vernon
ENGINEER vernon

Cassegrain ADC

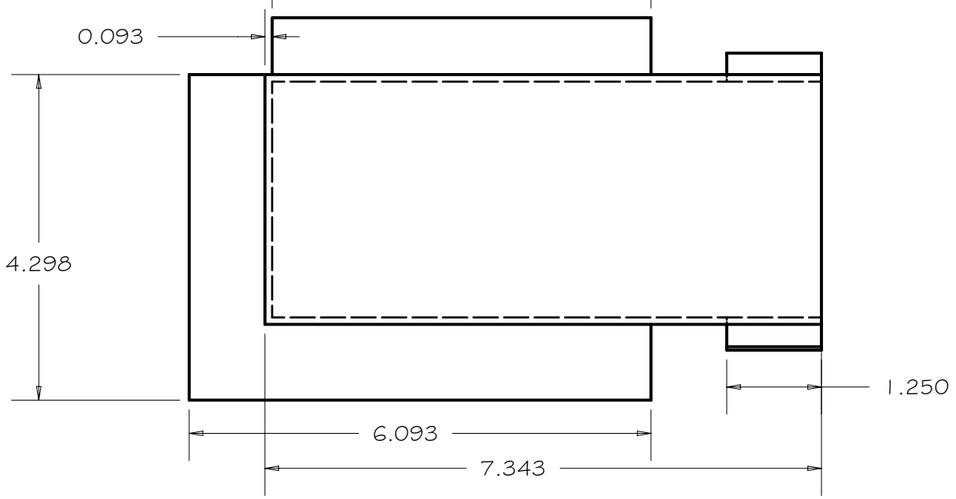
TITLE: CLADDING FRAME, FWD UPPER

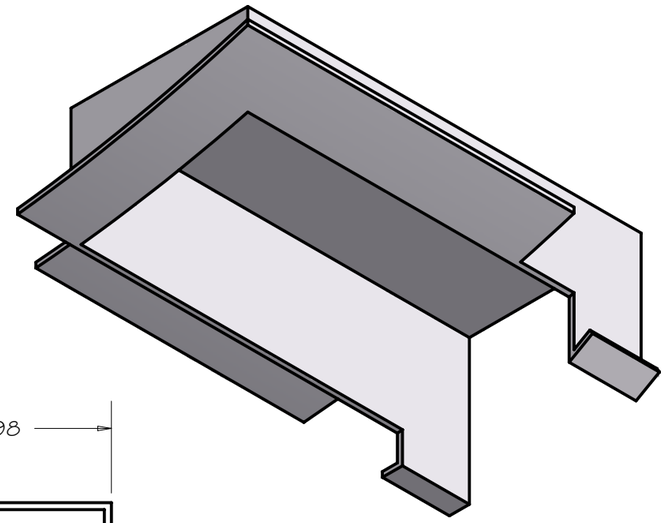
PROJECT CODE | DWG NO: A1513 | REV: A

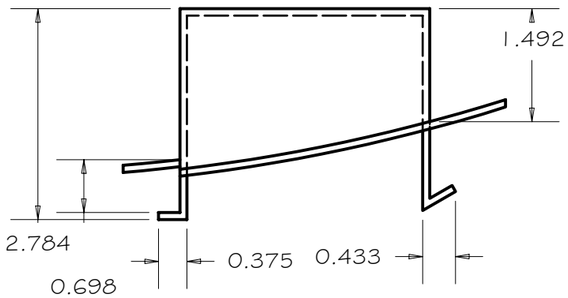
NEXT ASS'Y: A1000

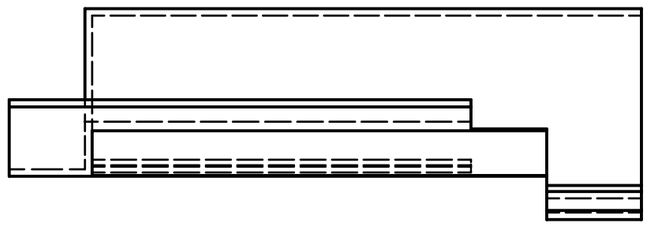
SHEET 1 / 1

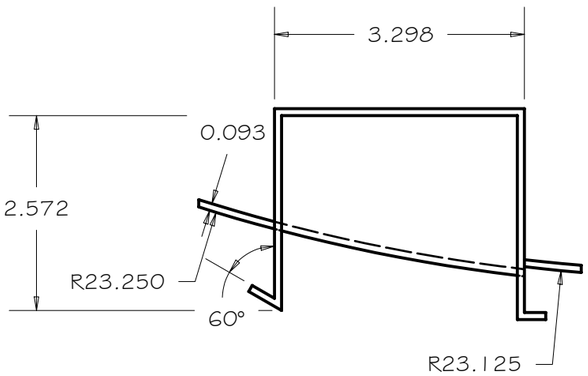
REV	DRWN	CHK'D	DATE	DESCRIPTION

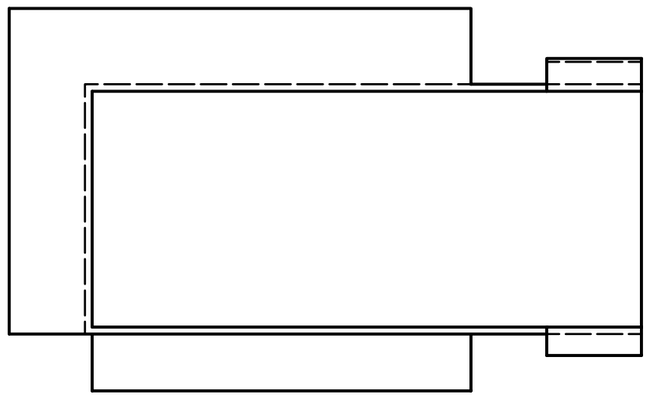












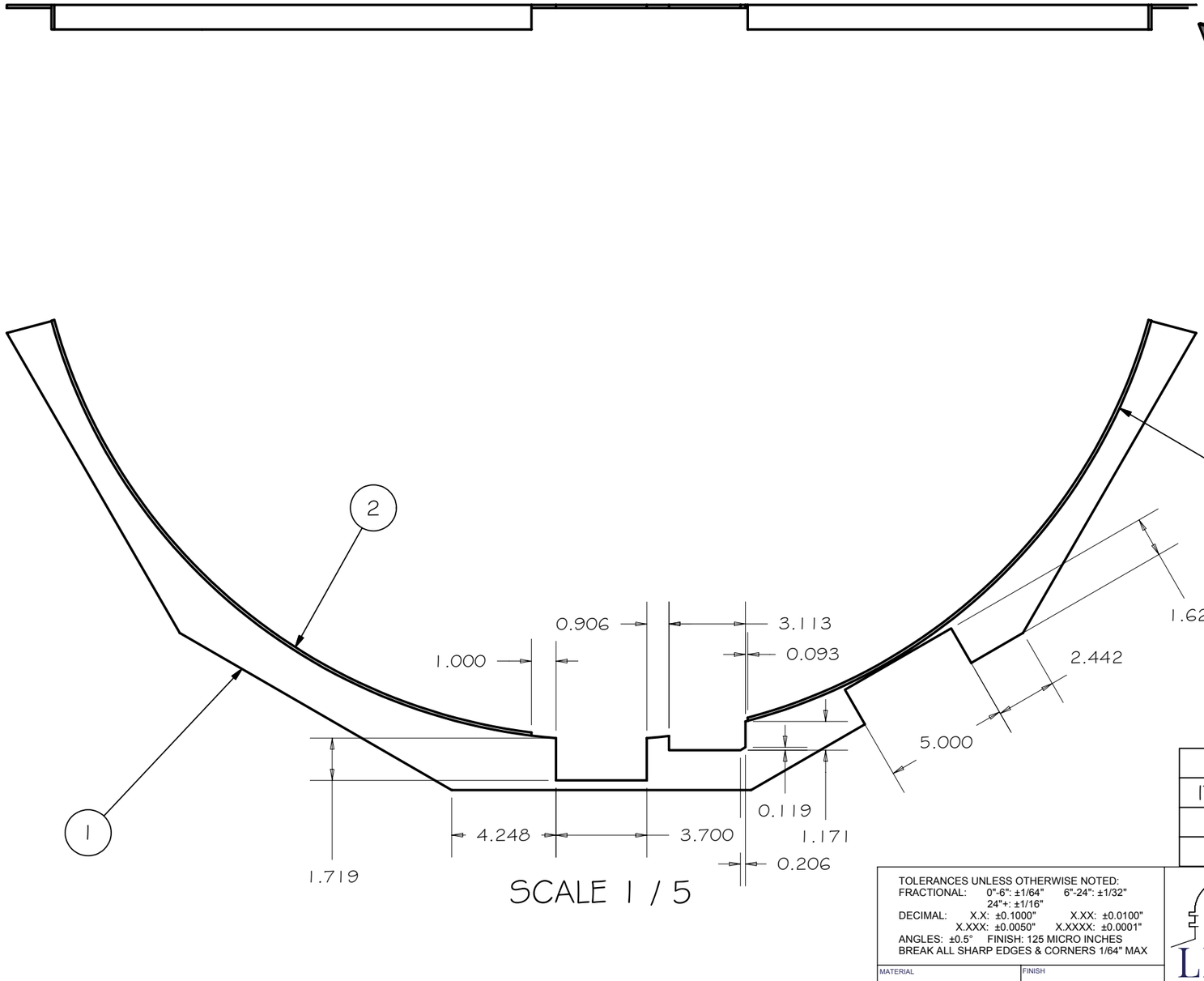
TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: 6061 T6 ALUMINUM	FINISH:	QTY: 1	

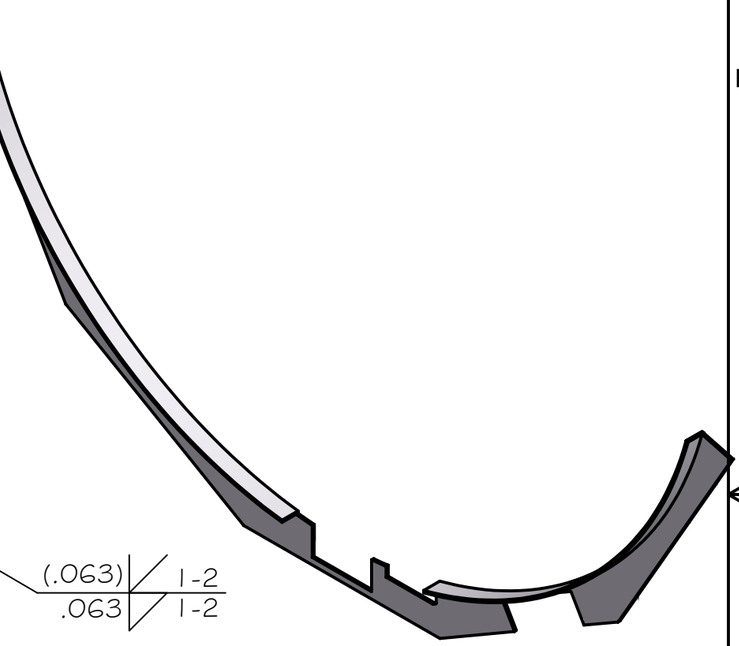
LICK OBSERVATORY

DRAWN: vernon	3/23/2004	Cassegrain ADC
CHECKED:		
DESIGNED: vernon		TITLE: CLADDING, MOTOR
ENGINEER: vernon		
PROJECT CODE:		DWG NO: A1527
NEXT ASS'Y: A1000		REV: A, 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 1 / 5



SCALE 0.15 : 1

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A1524	CLADDING PLATE, AFT LOWER
2	1	A1525	CLADDING RING, AFT LOWER

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL

FINISH

LICK OBSERVATORY

DRAWN vernon 3/23/2004
CHECKED
DESIGNED vernon
ENGINEER vernon

Cassegrain ADC

TITLE: CLADDING FRAME, AFT LOWER

QTY: 1

PROJECT CODE

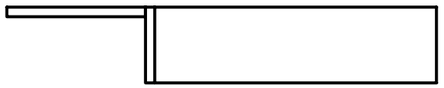
DWG NO A1526

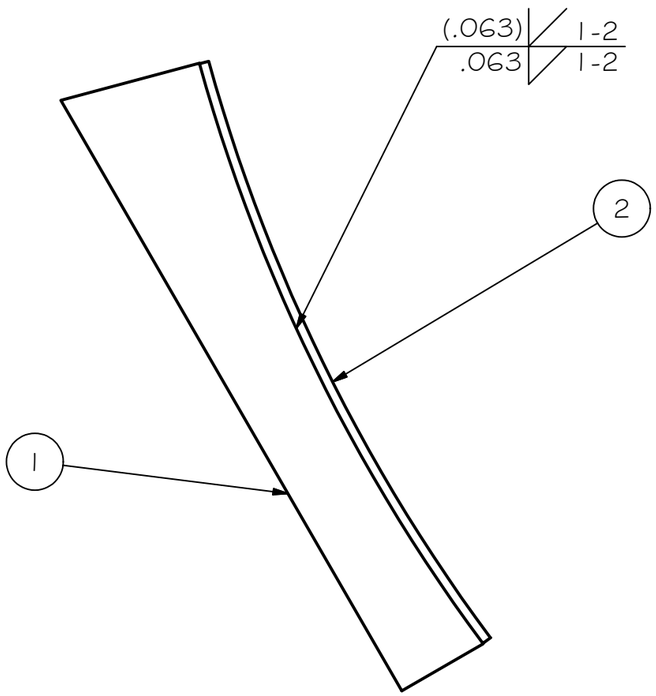
REV A

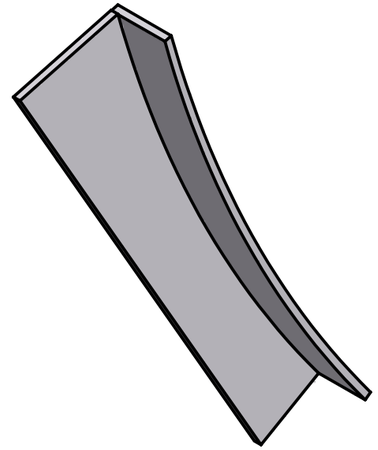
NEXT ASS'Y A1000

1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







SCALE 1 / 2

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A1521	CLADDING PLATE, AFT UPPER
2	1	A1522	CLADDING FRAME, AFT UPPER

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

QTY: 1

DRAWN	vernon	3/23/2004
CHECKED		
DESIGNED	vernon	
ENGINEER		

Cassegrain ADC

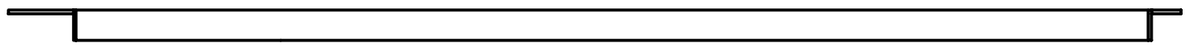
TITLE: CLADDING FRAME, AFT UPPER

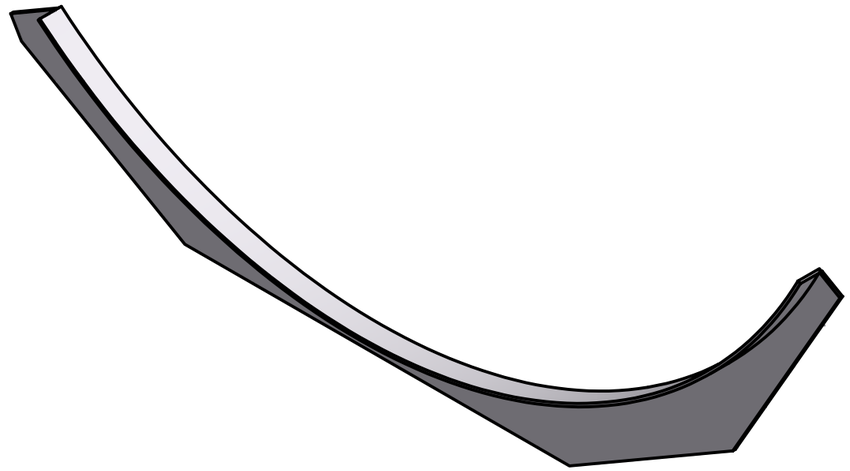
PROJECT CODE | DWG NO: A1523 | REV: A

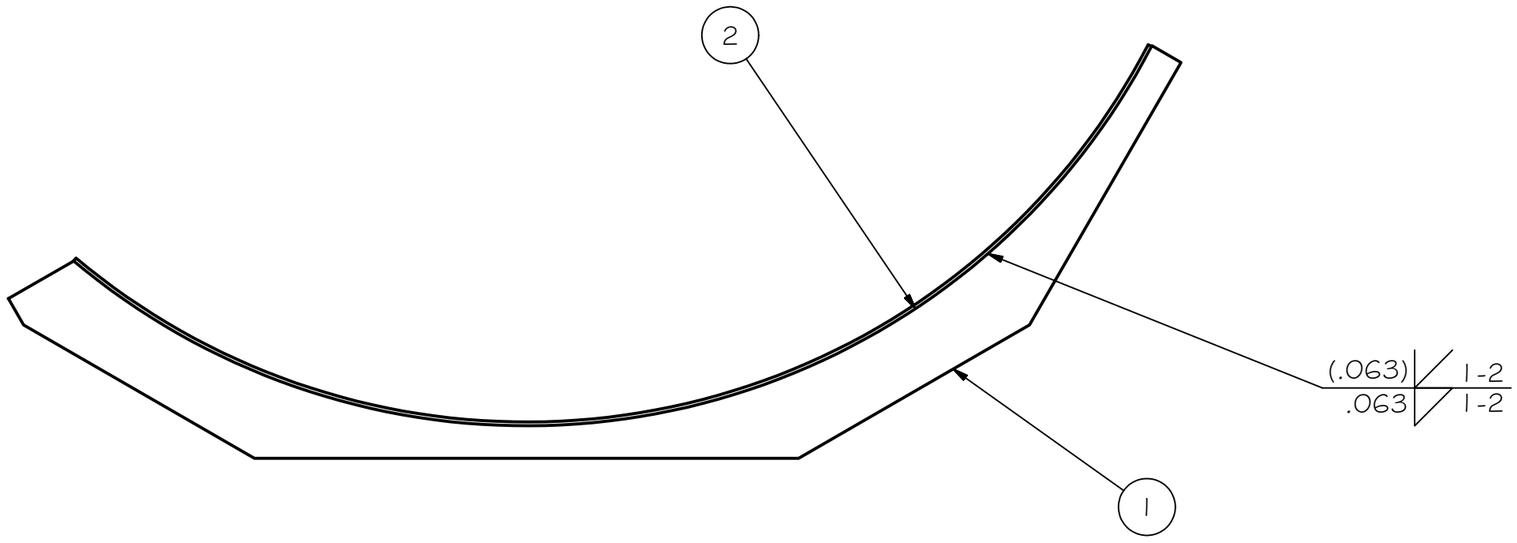
NEXT ASS'Y: A1000

1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A1517	CLADDING PLATE, AFT UPPER
2	1	A1518	CLADDING RING, AFT UPPER

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL

FINISH

LICK OBSERVATORY

DRAWN vernon 3/23/2004
CHECKED
DESIGNED vernon
ENGINEER vernon

Cassegrain ADC

TITLE
CLADDING FRAME, AFT UPPER

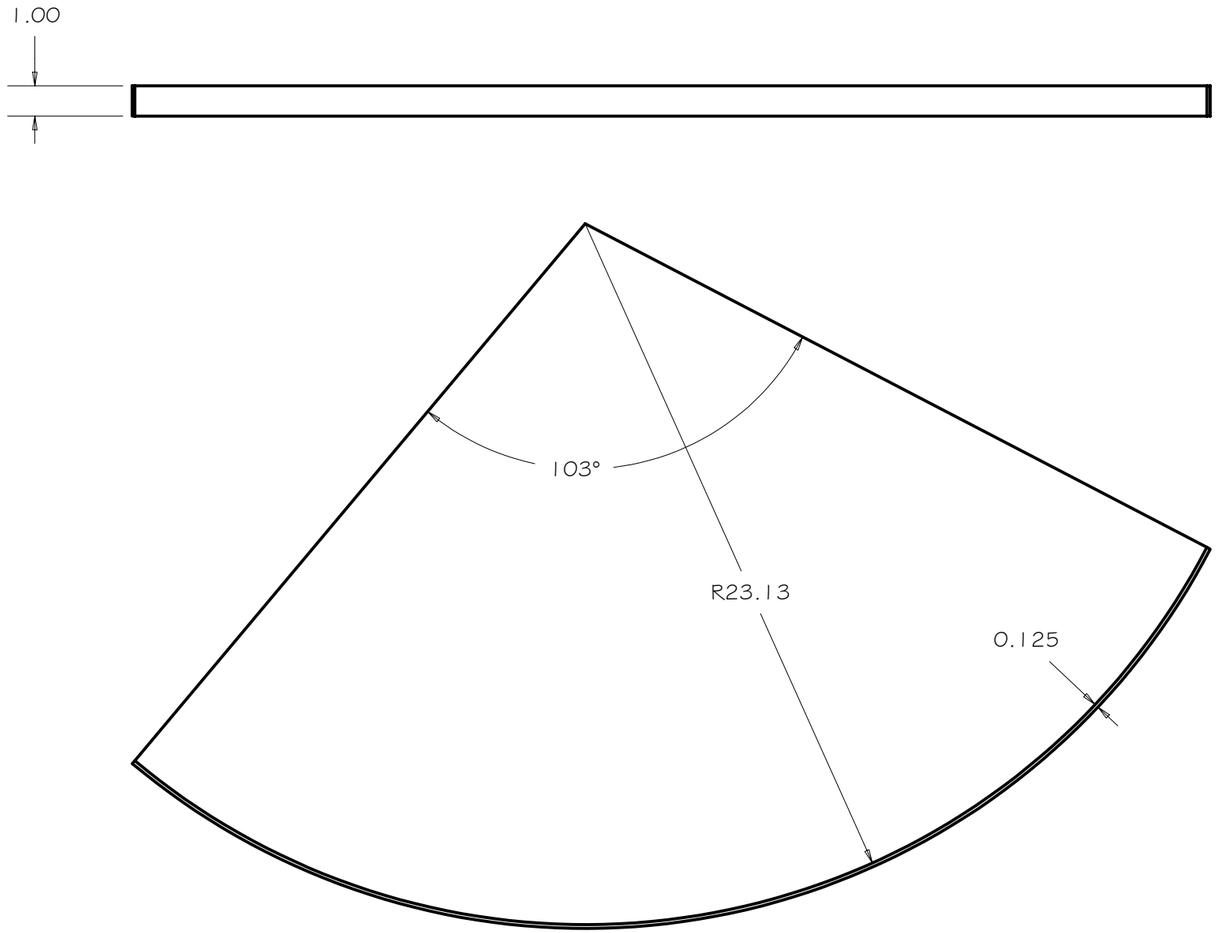
PROJECT CODE

NEXT ASS'Y A1000

DWG NO A1519

REV A 1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 1 / 5

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: 6061 T6 ALUMINUM
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/23/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

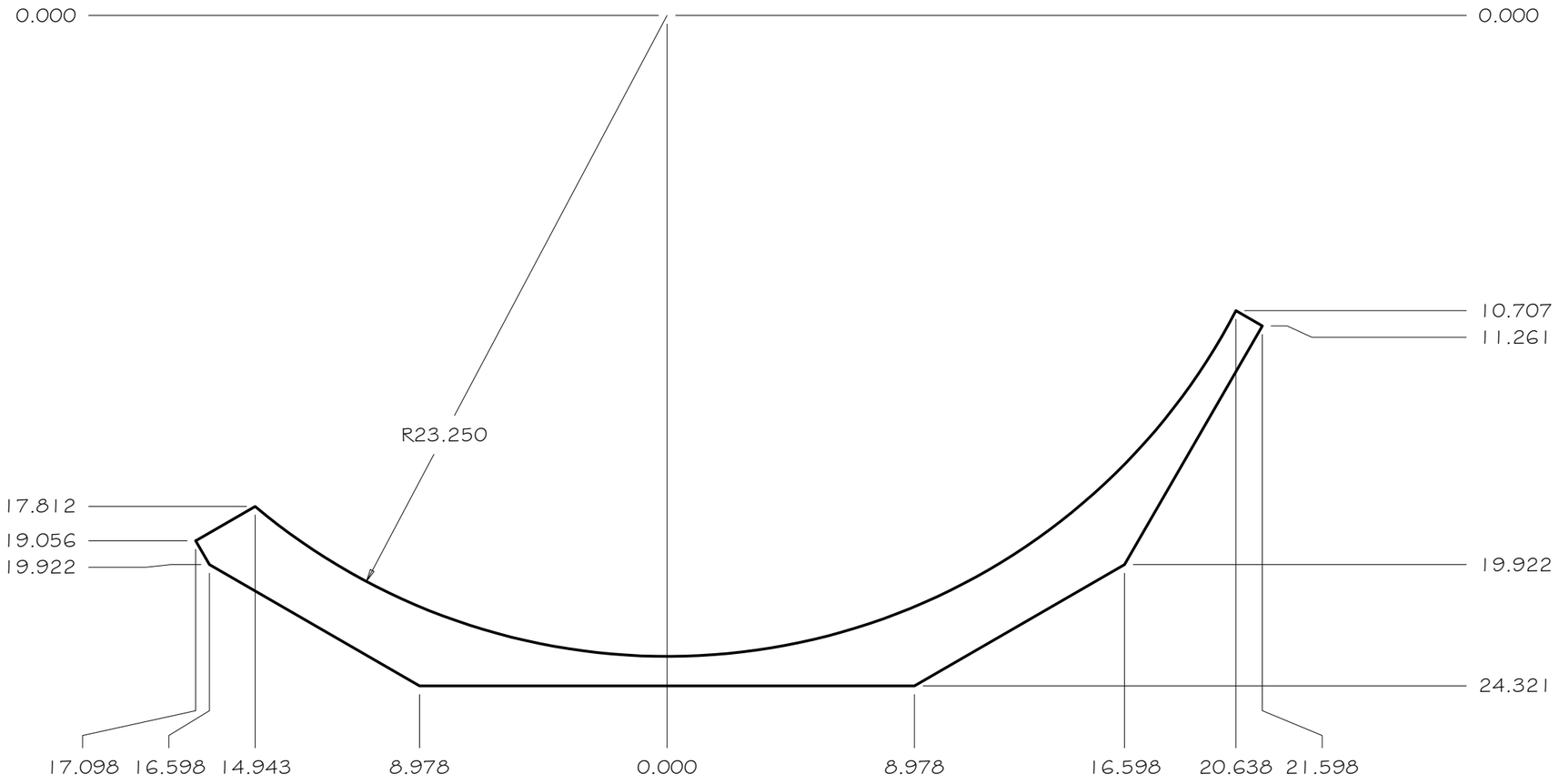
QTY: 1

Cassegrain ADC

TITLE: CLADDING RING, AFT UPPER

PROJECT CODE:
NEXT ASS'Y: A1519
DWG NO: A1518
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 1 / 5

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: 6061 T6 ALUMINUM
FINISH:

LICK OBSERVATORY

QTY: 1

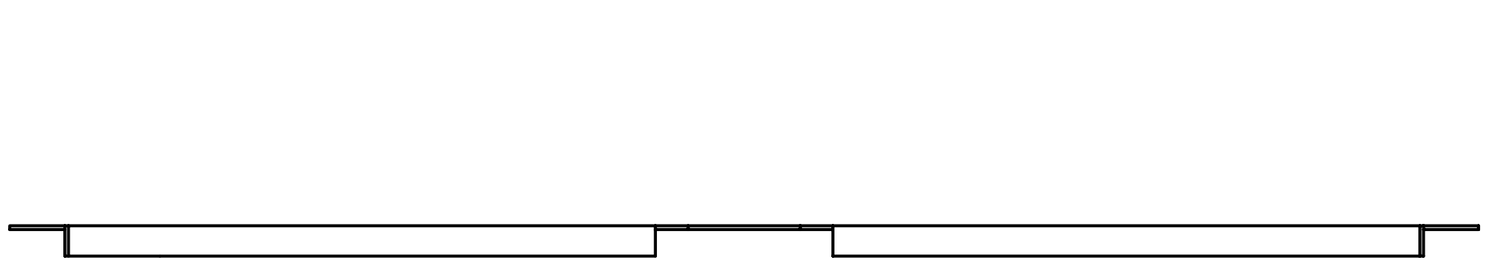
DRAWN	vernon	3/23/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

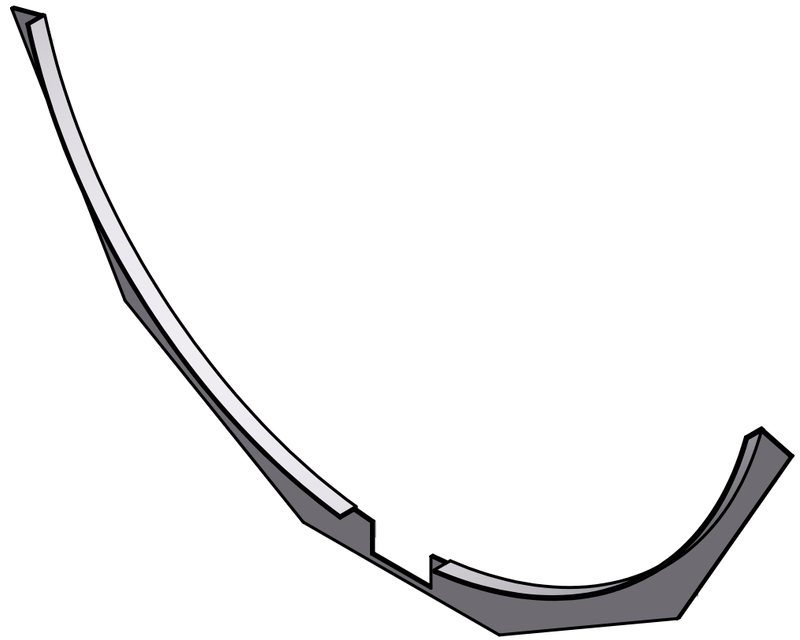
Cassegrain ADC

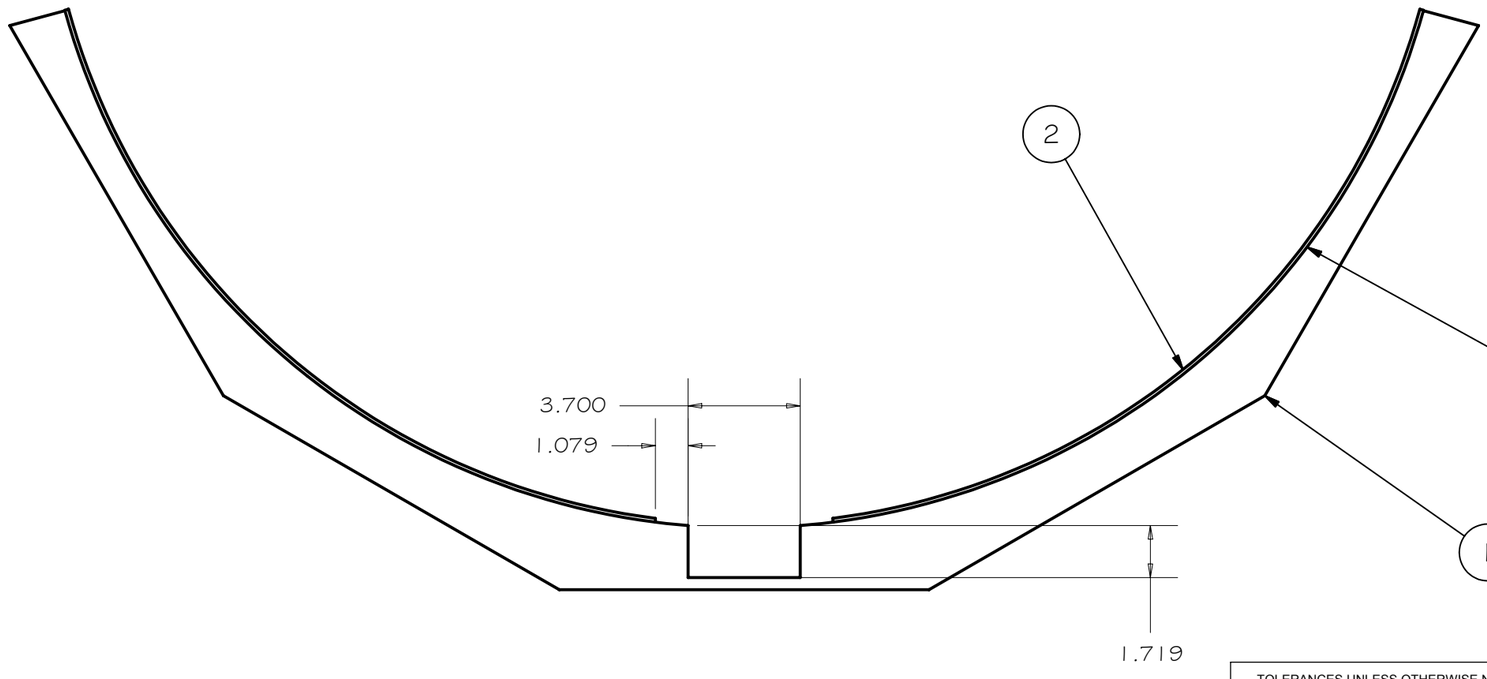
TITLE: CLADDING PLATE, AFT UPPER

PROJECT CODE:
NEXT ASS'Y: A1519
DWG NO: A1517
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







SCALE 0.15 : 1

SCALE 1 / 5

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A1514	CLADDING PLATE, FWD LOWER
2	1	A1515	CLADDING RING, FWD LOWER

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL

FINISH

LICK OBSERVATORY

DRAWN vernon 3/23/2004
CHECKED
DESIGNED vernon
ENGINEER vernon

Cassegrain ADC

TITLE
CLADDING FRAME, FWD LOWER

PROJECT CODE

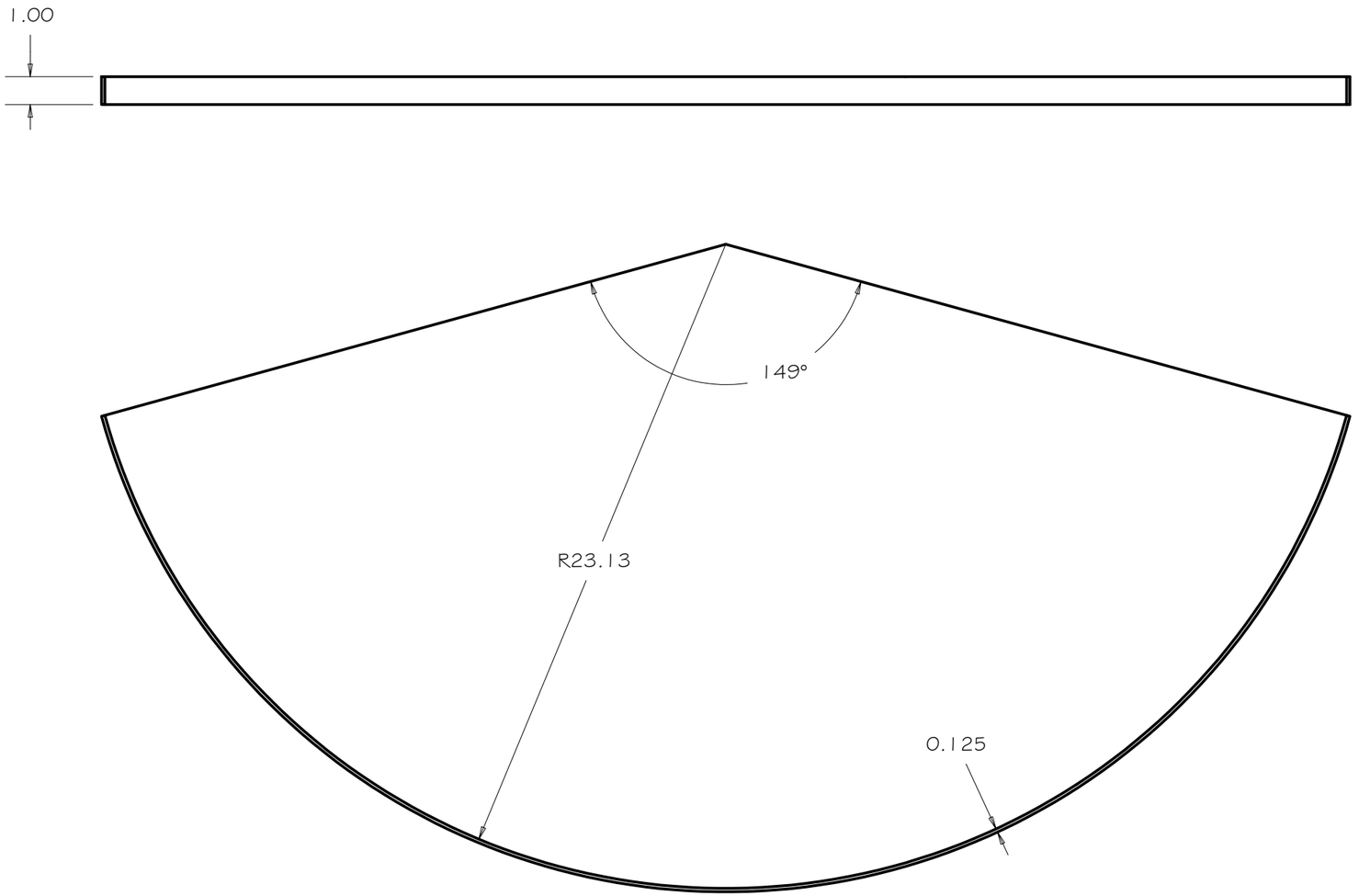
DWG NO A1516

REV A

NEXT ASS'Y A1000

1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: 6061-T6 ALUMINUM
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/23/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

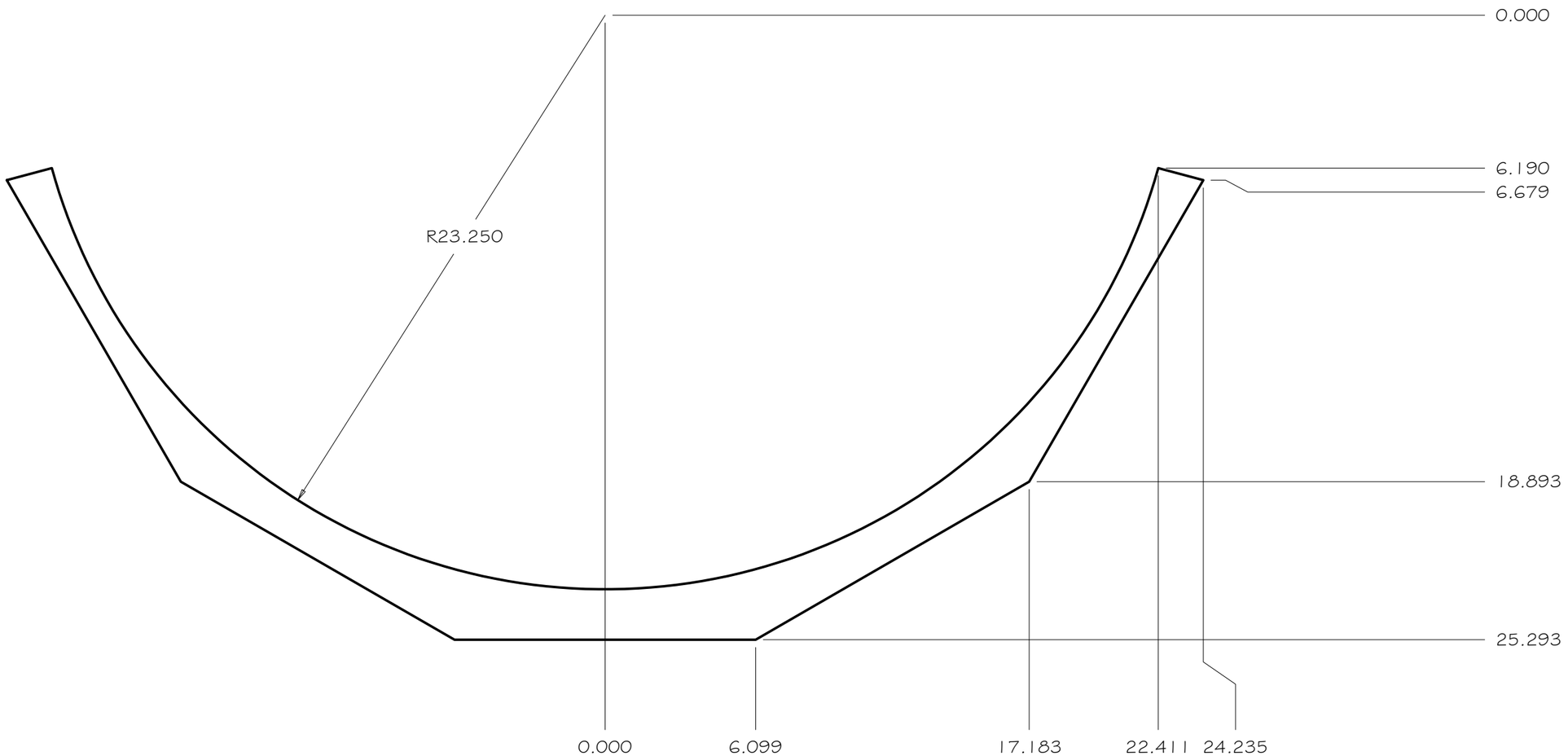
QTY: 1

Cassegrain ADC

TITLE: CLADDING RING, FWD LOWER

PROJECT CODE:
NEXT ASS'Y: A1516
DWG NO: A1515
REV: A
1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 1 / 5

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: 6061 T6 ALUMINUM
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/23/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

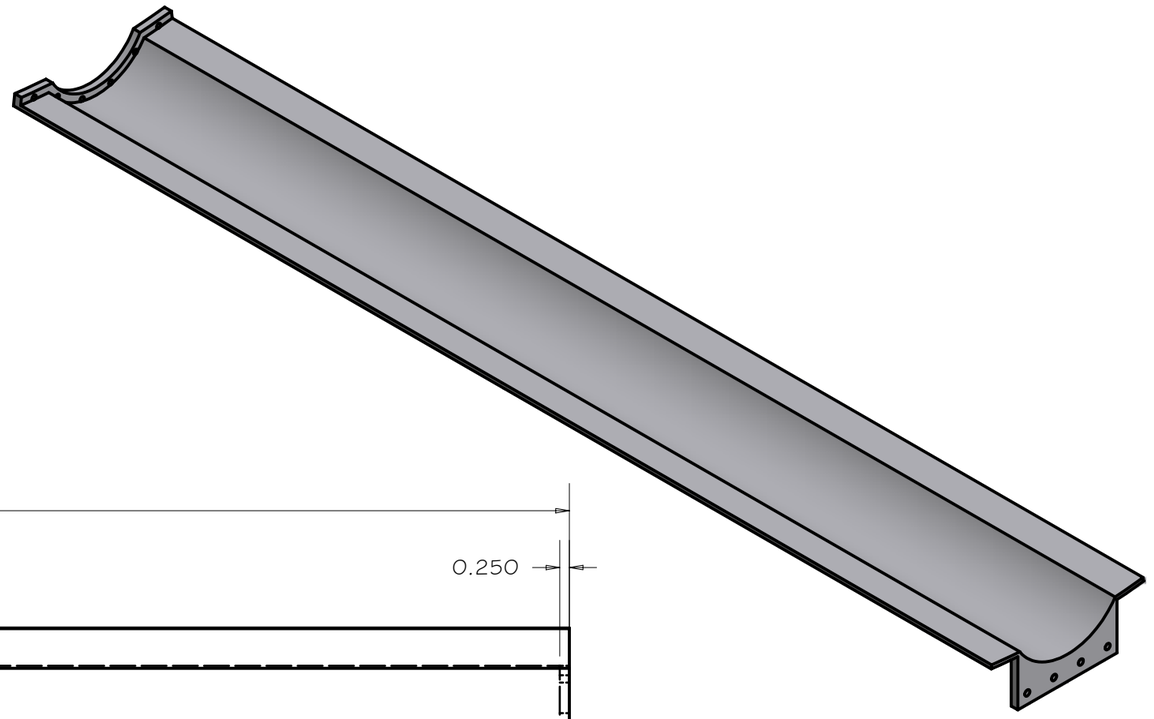
QTY: 1

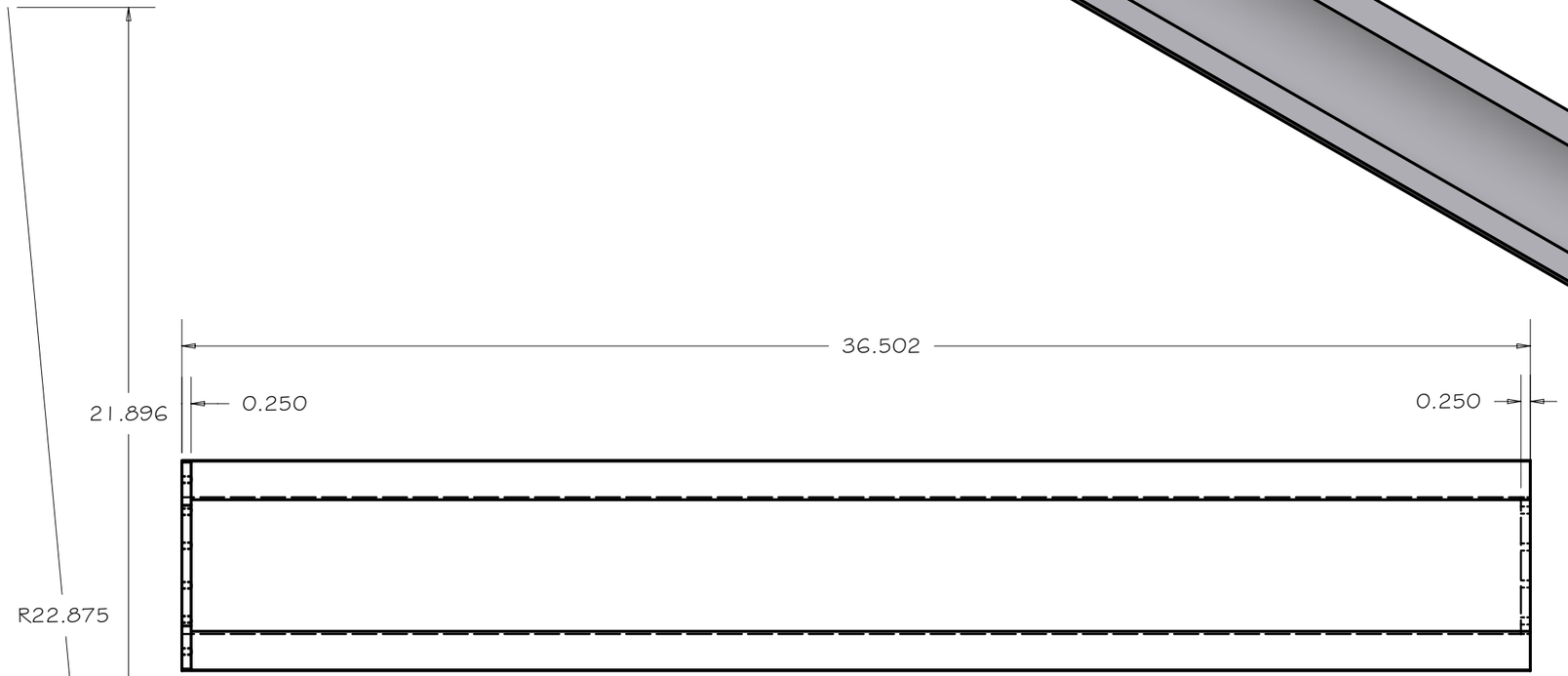
Cassegrain ADC

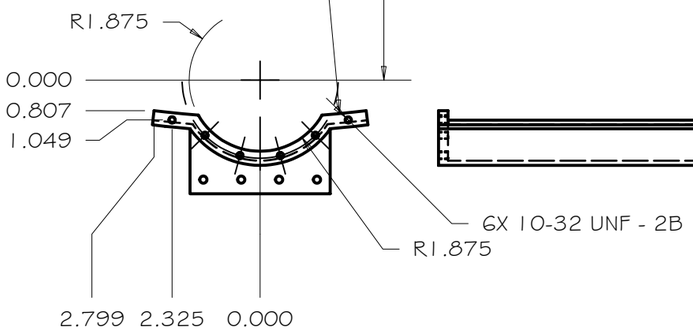
TITLE: CLADDING PLATE, FWD LOWER

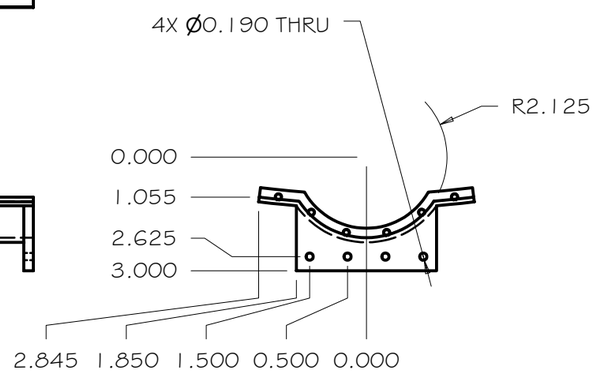
PROJECT CODE:
NEXT ASS'Y: A1516
DWG NO: A1514
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION









SCALE 1 / 4

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

QTY: 1

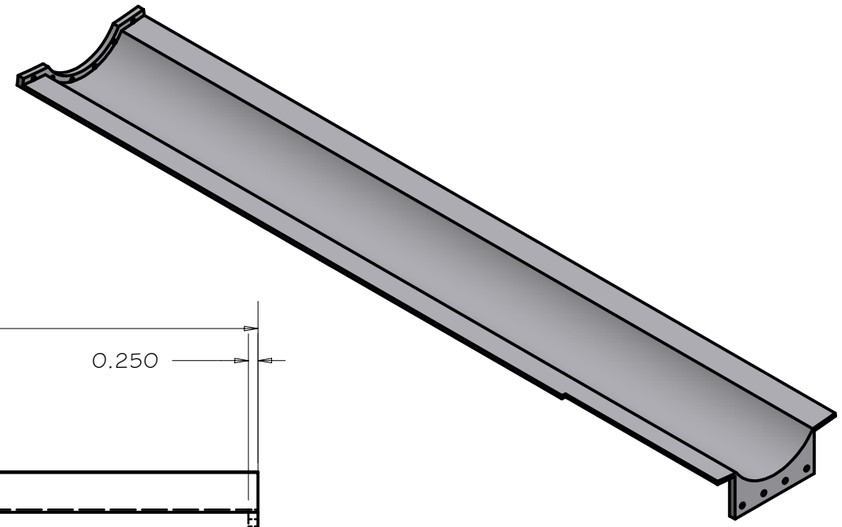
DRAWN	vernon	3/22/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

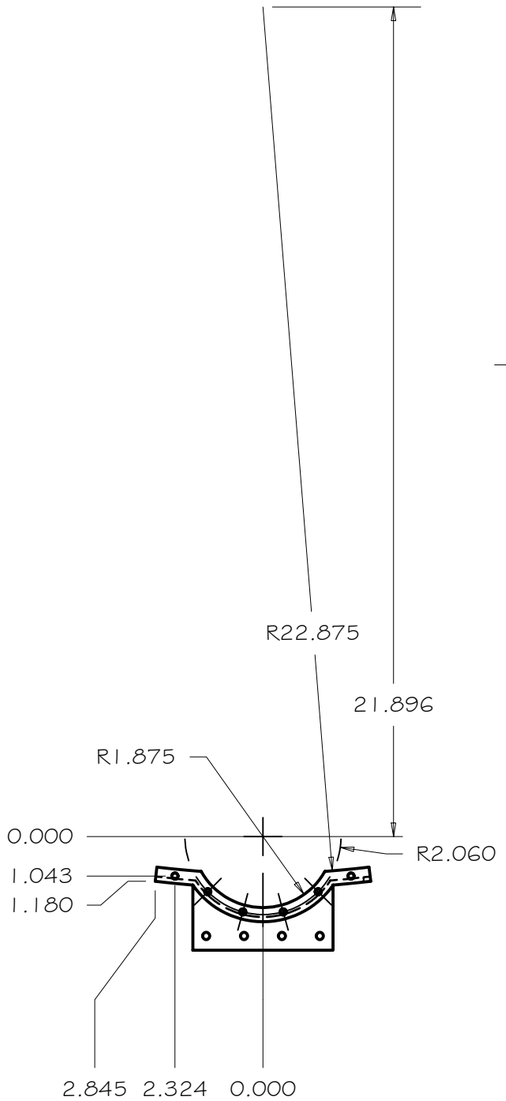
Cassegrain ADC

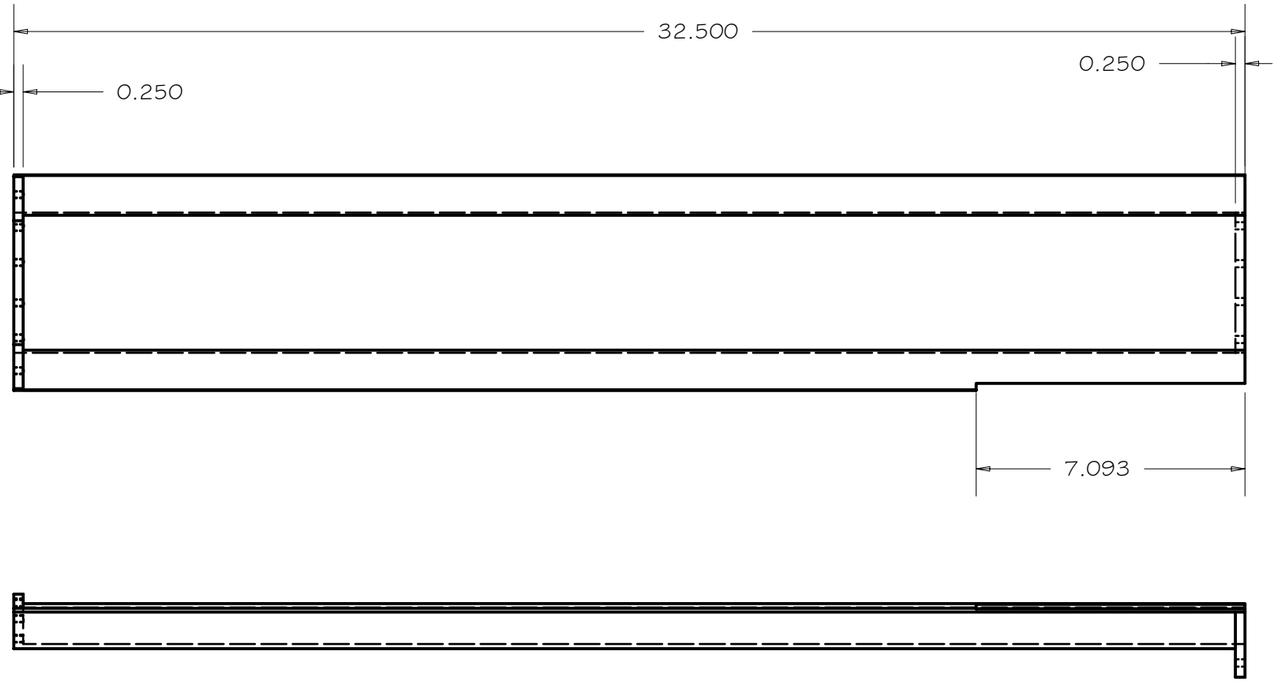
TITLE: BALL SCREW SHIELD, FWD

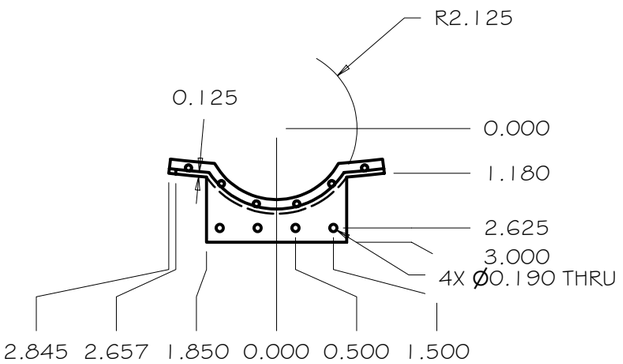
PROJECT CODE:
NEXT ASS'Y: A1100
DWG NO: A1528
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION









SCALE 1 / 4

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/22/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

QTY: 1

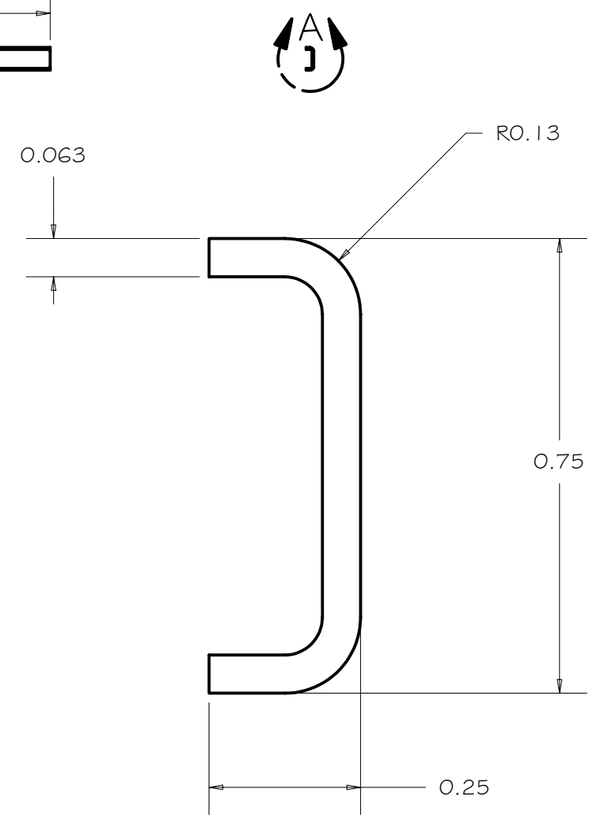
Cassegrain ADC

TITLE: BALL SCREW SHIELD, AFT

PROJECT CODE:
NEXT ASS'Y: A1100
DWG NO: A1529
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION

SCALE 1 / 5



DETAIL A
SCALE 4 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: 6061 T6 ALUMINUM
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/23/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

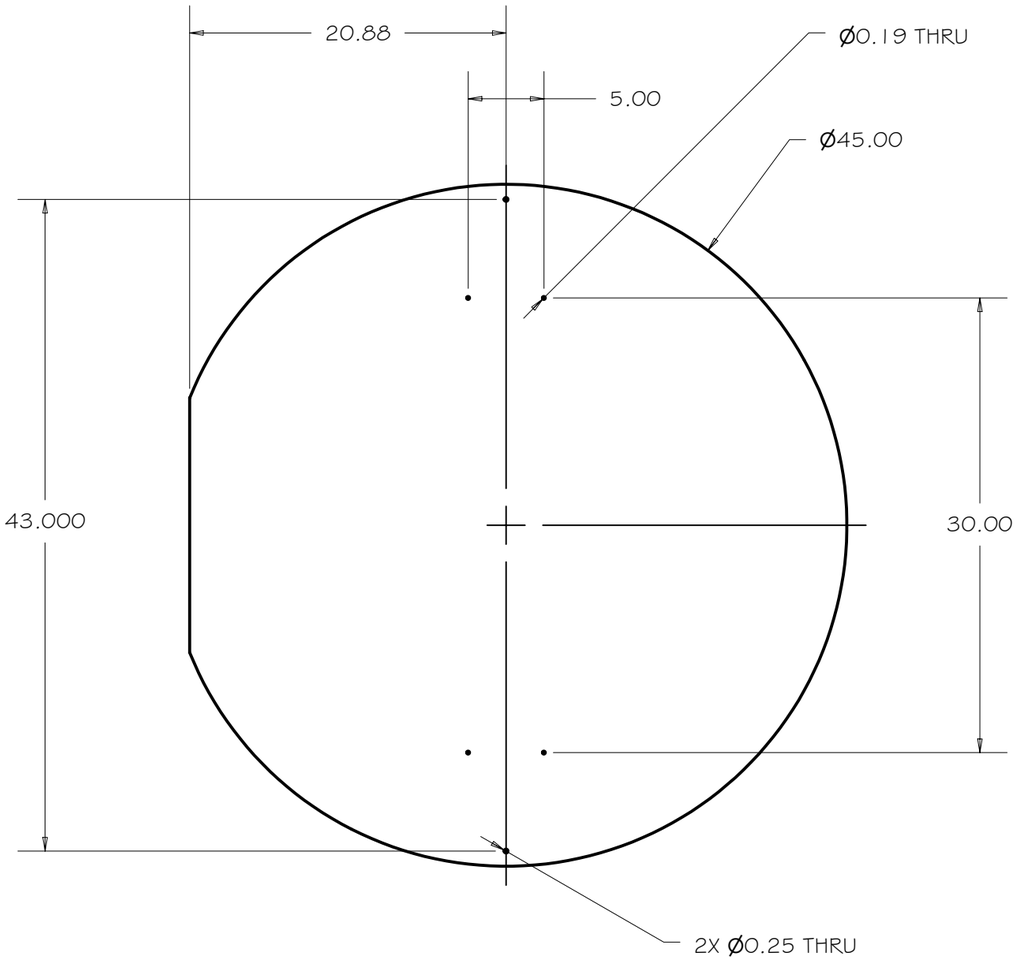
QTY: 2

Cassegrain ADC

TITLE: COVER STIFFENER, LONG

PROJECT CODE:
NEXT ASS'Y: A1510
DWG NO: A1538
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 1 / 10

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: 6061 T6 ALUMINUM
FINISH:

LICK OBSERVATORY

QTY: 2

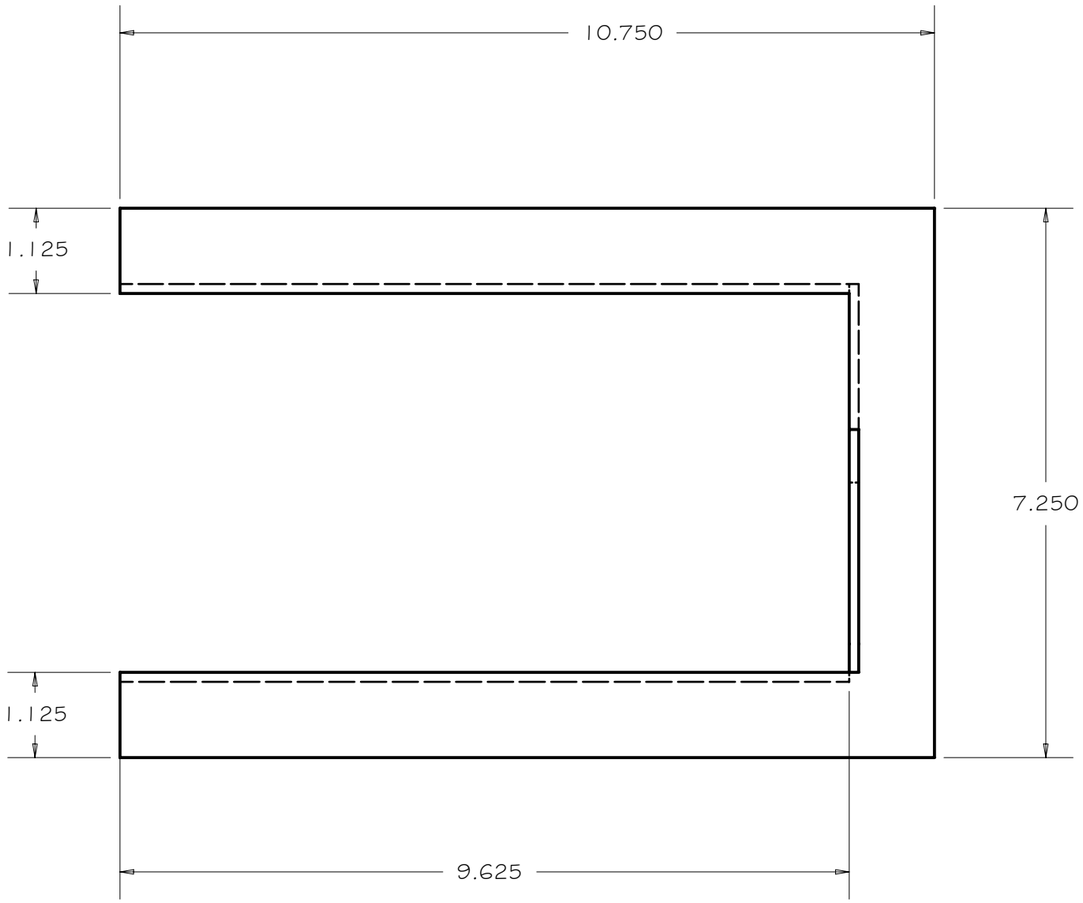
DRAWN	vernon	3/23/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

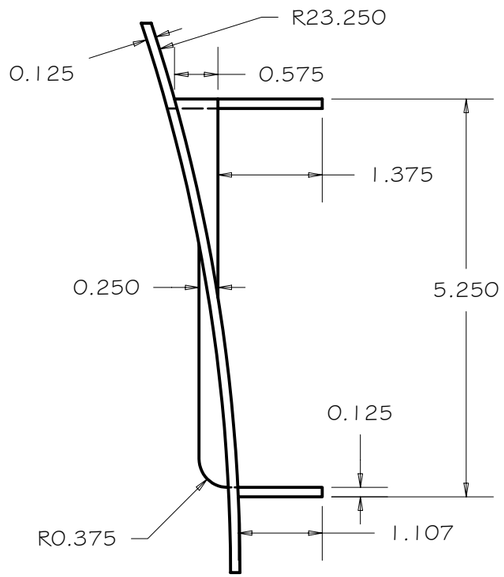
Cassegrain ADC

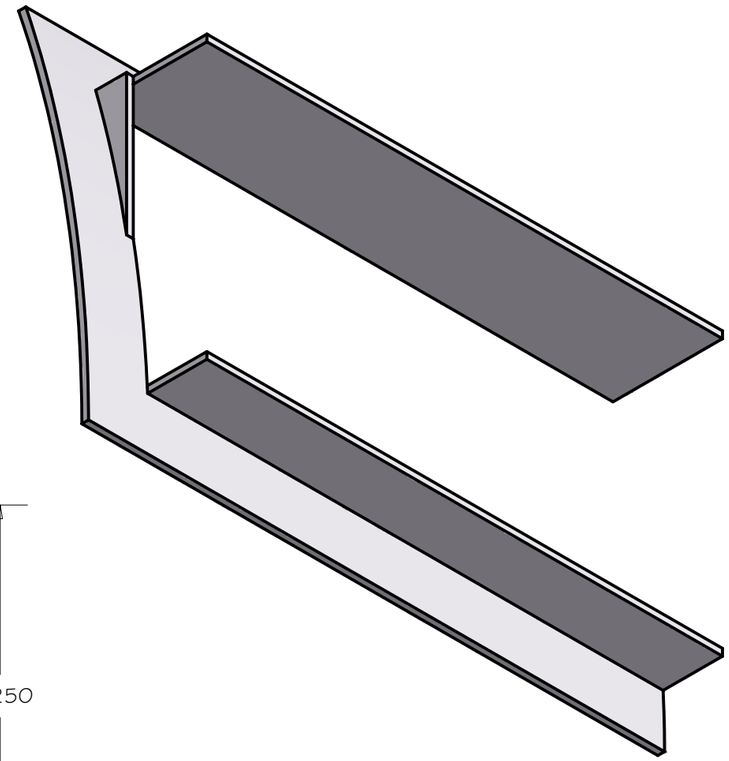
TITLE: COVER, PLATE

PROJECT CODE:
NEXT ASS'Y: A1510
DWG NO: A1537
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







SCALE 1 / 2

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: 6061 T6 ALUMINUM
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/23/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

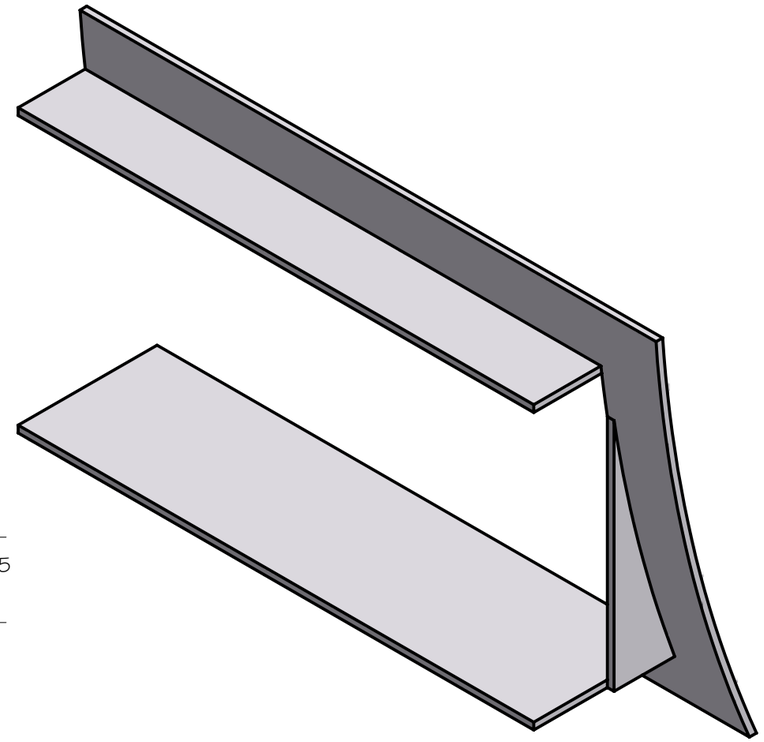
QTY: 1

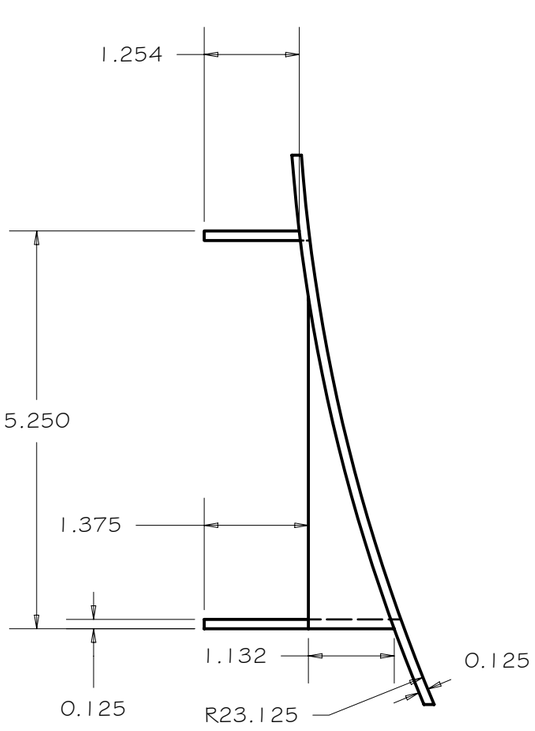
Cassegrain ADC

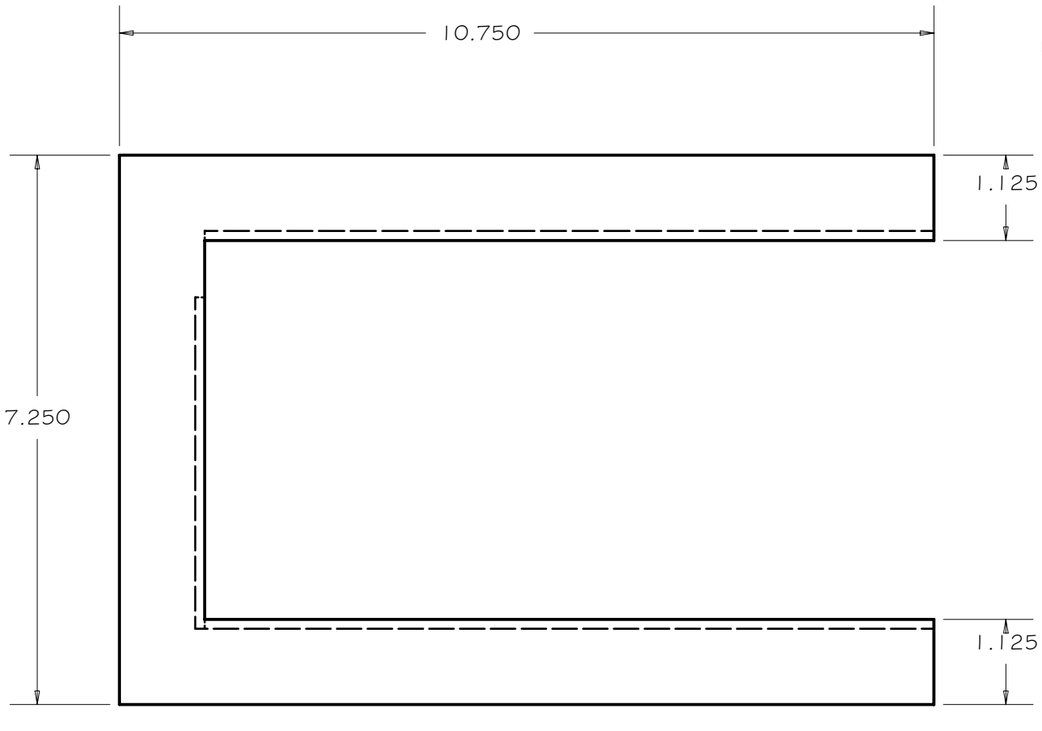
TITLE: CLADDING FRAME, HARDPOINT

PROJECT CODE:
NEXT ASS'Y: N/A
DWG NO: A1536
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: 6061 T6 ALUMINUM
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/23/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

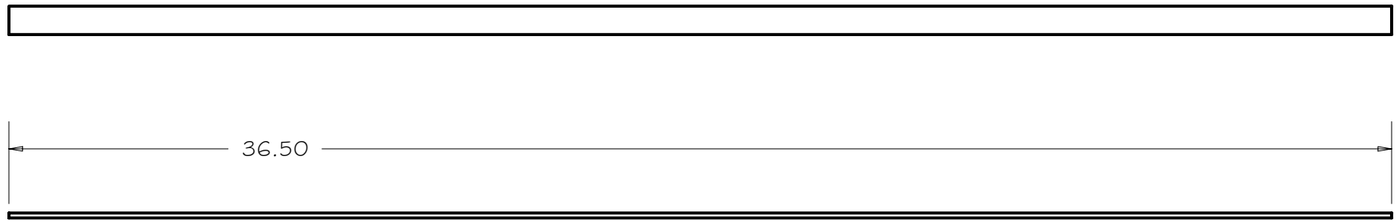
QTY: 1

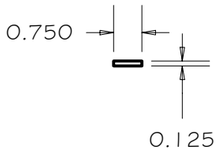
Cassegrain ADC

TITLE: CLADDING FRAME, HARDPOINT

PROJECT CODE:
NEXT ASS'Y: A1000
DWG NO: A1535
REV: A
SHEET 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





SCALE 1 / 4

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

QTY: 4

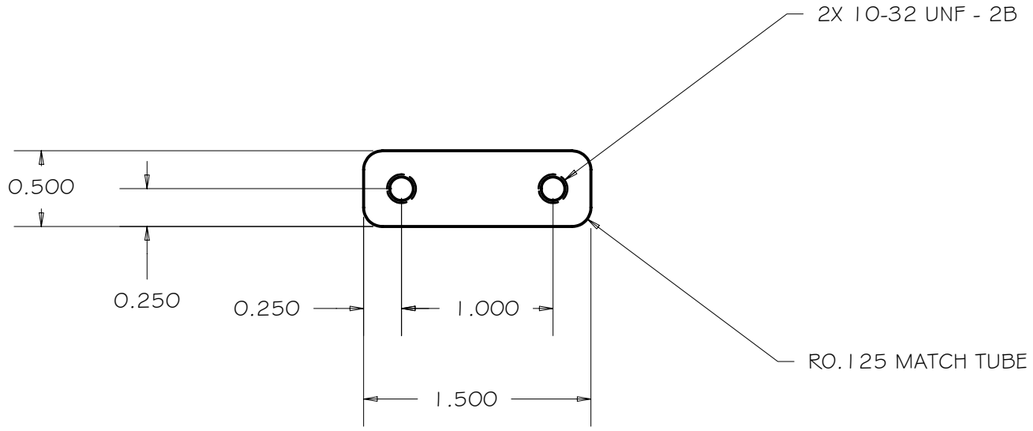
DRAWN: vernon 3/22/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

Cassegrain ADC

TITLE: STIFFENER BAR

PROJECT CODE:
NEXT ASS'Y: N/A
DWG NO: A1534
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/22/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

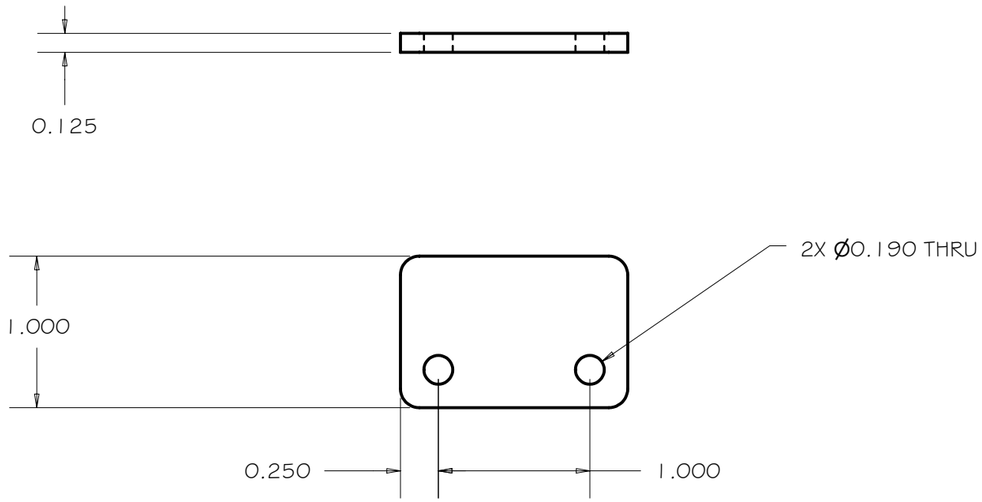
QTY: 2

Cassegrain ADC

TITLE: STIFFENER END

PROJECT CODE:
NEXT ASS'Y: A1530
DWG NO: A1533
REV: A
1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/22/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

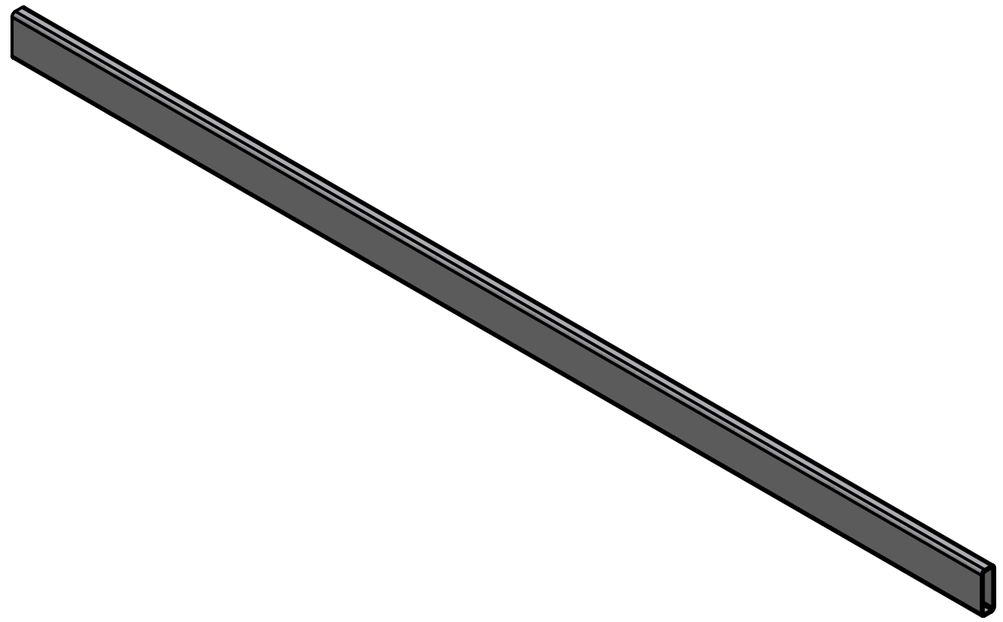
QTY: 2

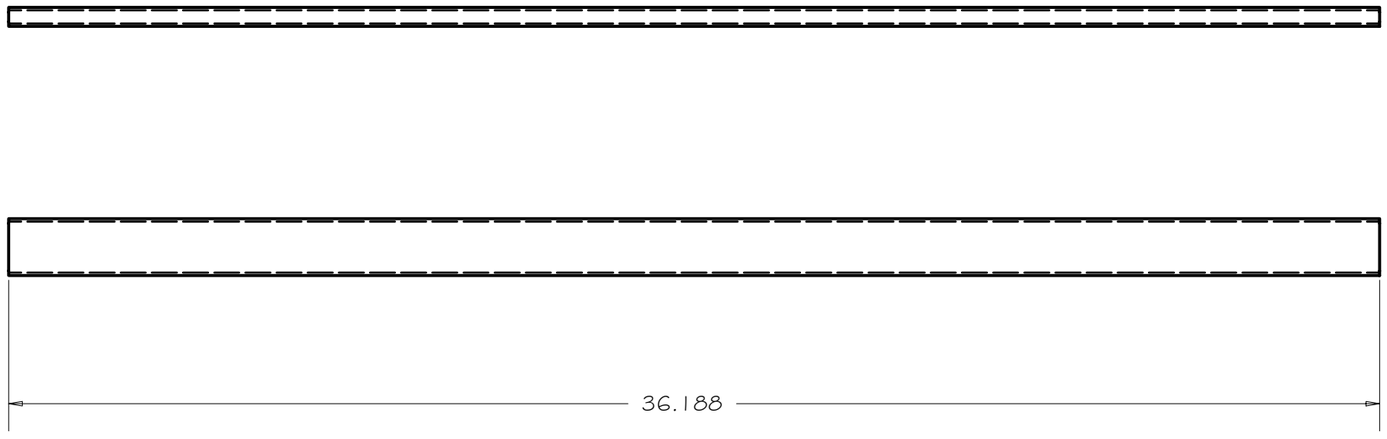
Cassegrain ADC

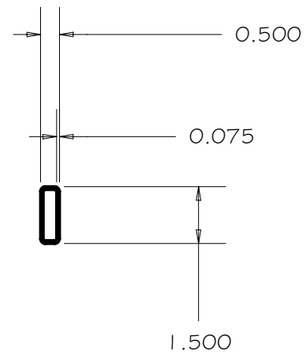
TITLE: STIFFENER END

PROJECT CODE:
NEXT ASS'Y: A1530
DWG NO: A1532
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL	

LICK OBSERVATORY

DRAWN	vernon	3/22/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

QTY: 2

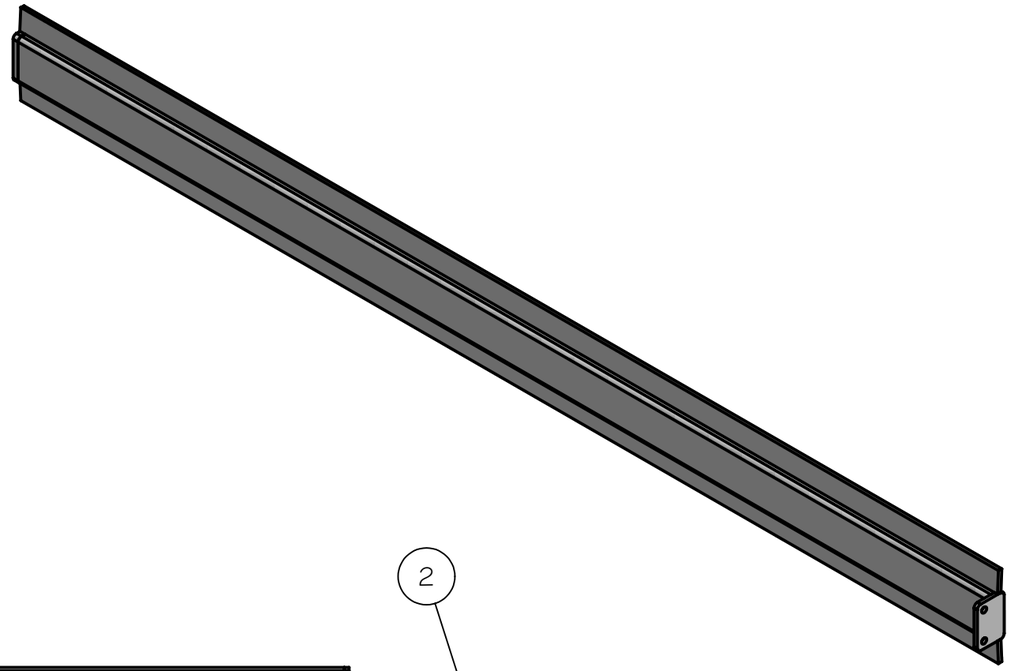
Cassegrain ADC

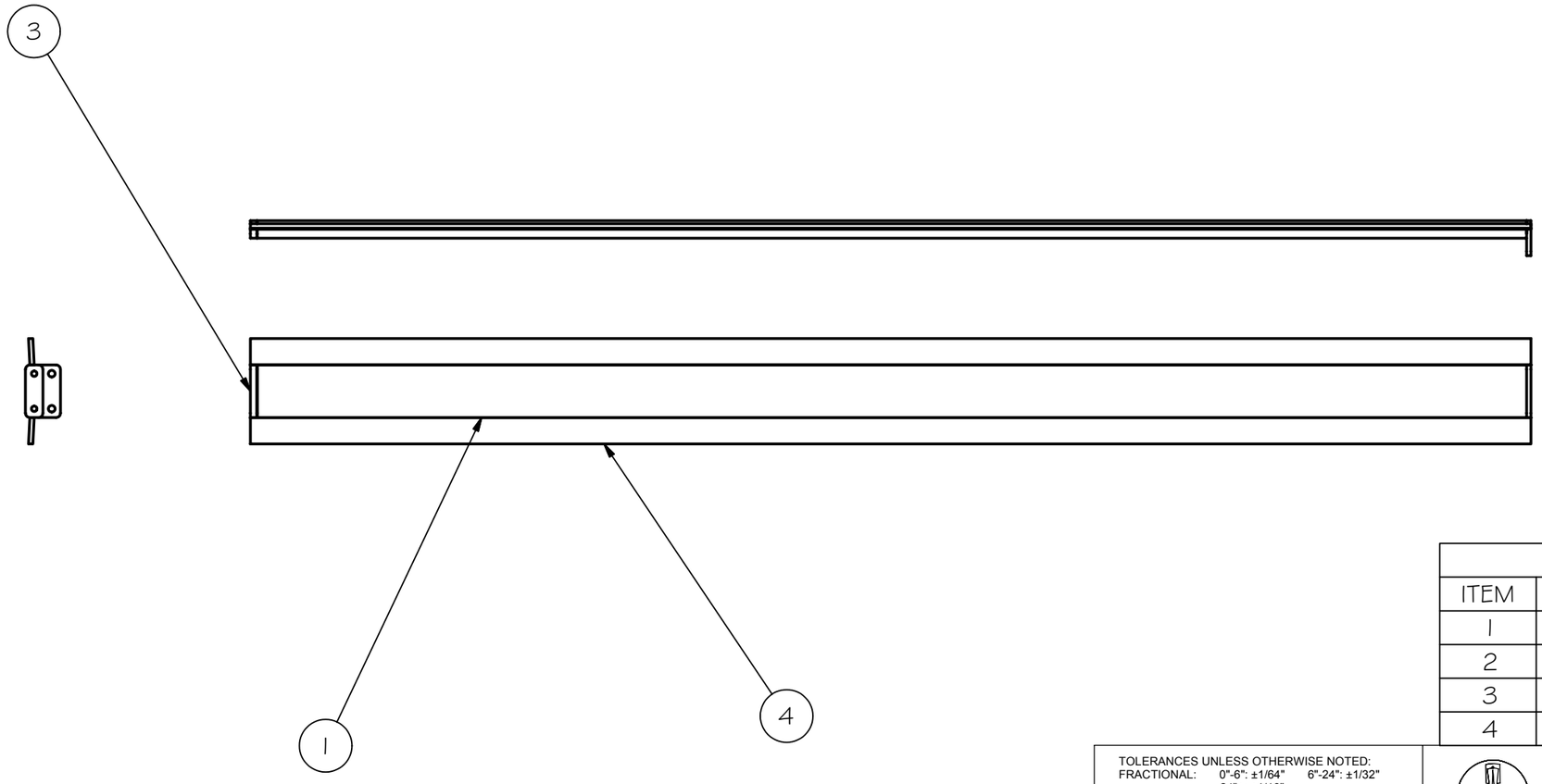
TITLE: STIFFENER TUBE

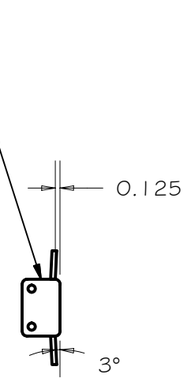
PROJECT CODE	DWG NO	REV
NEXT ASS'Y A1530	A1531	A

1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A1531	STIFFENER TUBE
2	1	A1532	STIFFENER END
3	1	A1533	STIFFENER END
4	2	A1534	STIFFENER BAR

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL

FINISH

LICK OBSERVATORY

QTY: 2

DRAWN vernon 3/22/2004
CHECKED
DESIGNED vernon
ENGINEER vernon

Cassegrain ADC

TITLE
FRAME STIFFENER

PROJECT CODE

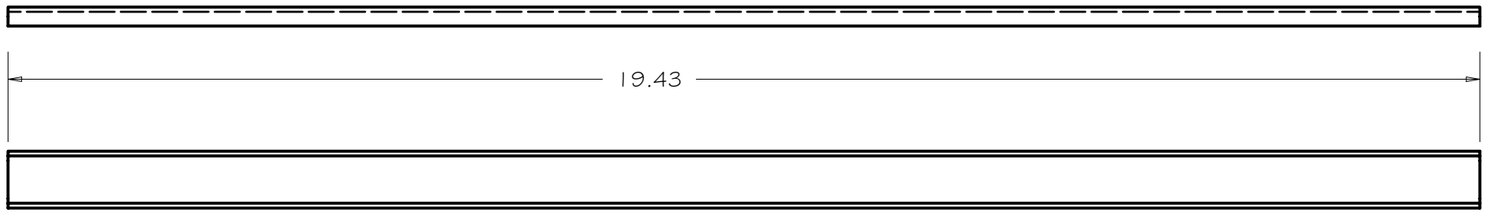
NEXT ASS'Y A1100

DWG NO A1530

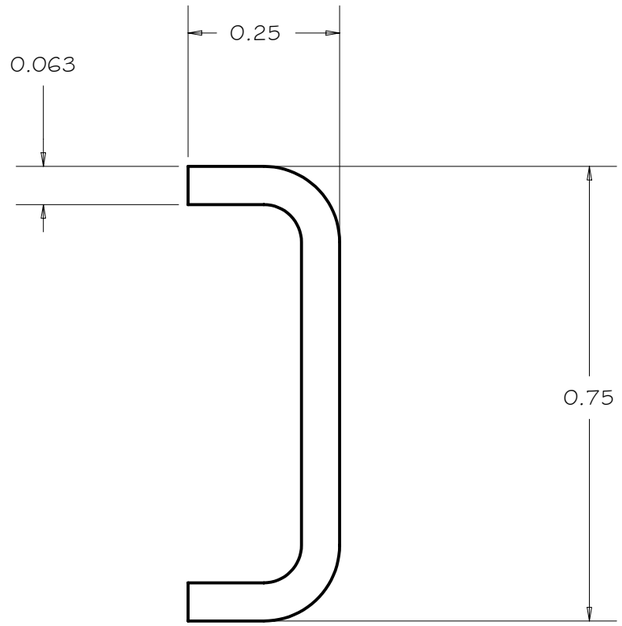
REV A

1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 1 / 2



DETAIL A
SCALE 4 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: 6061 T6 ALUMINUM
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/23/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

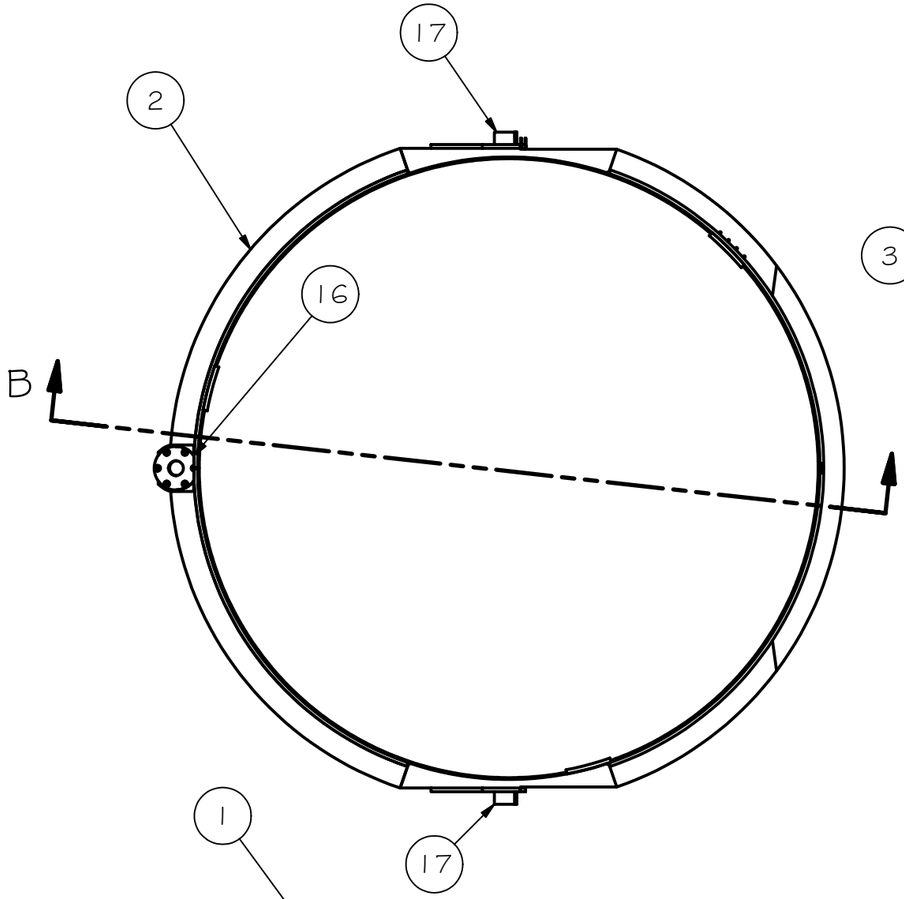
QTY: 4

Cassegrain ADC

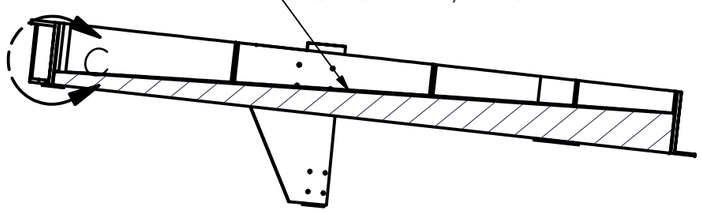
TITLE: COVER STIFFENER, SHORT

PROJECT CODE:
NEXT ASS'Y: A1510
DWG NO: A1539
REV: A
1 / 1

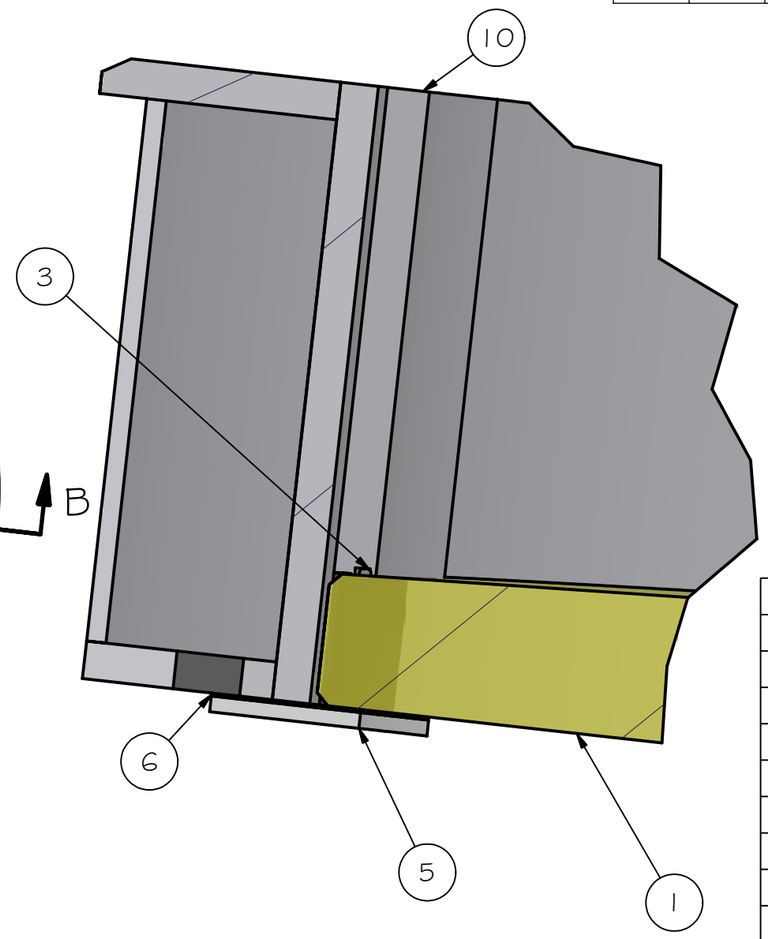
REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 1 / 10



SECTION B-B
SCALE 1 / 10



DETAIL C
SCALE 1 : 1

NOTES:
1) GLUE ITEMS 3, 13, 14 & 15 IN POSITION WITH CYANOACRYLATE GLUE

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A2012	OPTIC ASSEMBLY
2	1	A2020	CELL WELDMENT, FORWARD
3	3	A2040	O-RING SECTION
4	1	A2042	SLIDE MOUNT
5	3	A2044	RETAINER, OPTIC, FWD
6	3	A2045	AXIAL SPACER, FWD
7	1	A2046	FIDUCAL TAB, LONG
8	1	A2047	FIDUCAL TAB, SHORT
9	1	A2048	SLIDE MOUNT
10	1	A2053	AXIAL CLAMP, FWD
11	1	A2054	AXIAL CLAMP, FWD
12	1	A2055	AXIAL CLAMP, FWD
13	1	A2064	RADIAL SPACER, FWD
14	1	A2065	RADIAL SPACER, FWD
15	1	A2066	RADIAL SPACER, FWD
16	1	BALL NUT	THK BNF-2505-5
17	4	BALL SLIDE	THK SHS-20-V SLIDE

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN vernon 7/22/2003
CHECKED
DESIGNED vernon
ENGINEER

QTY: 1

Cassegrain ADC

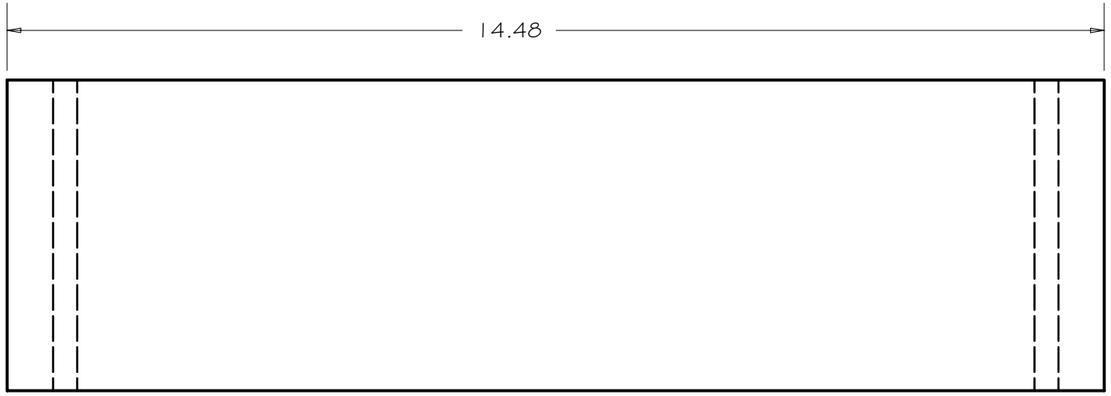
TITLE: CELL ASSEMBLY, FORWARD

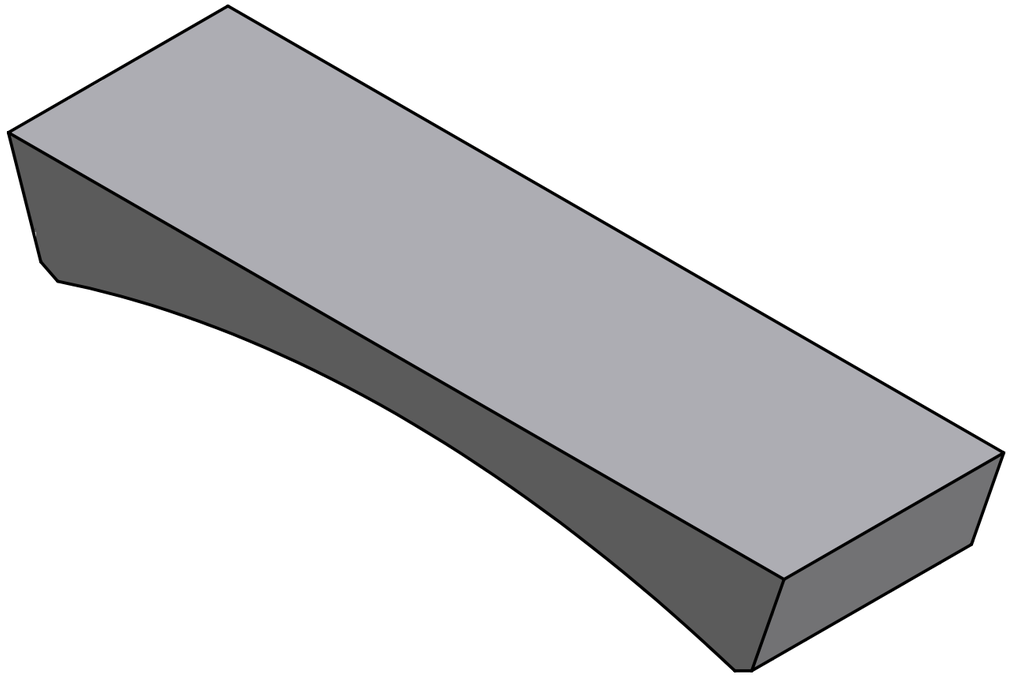
PROJECT CODE | DWG NO A2001 | REV A

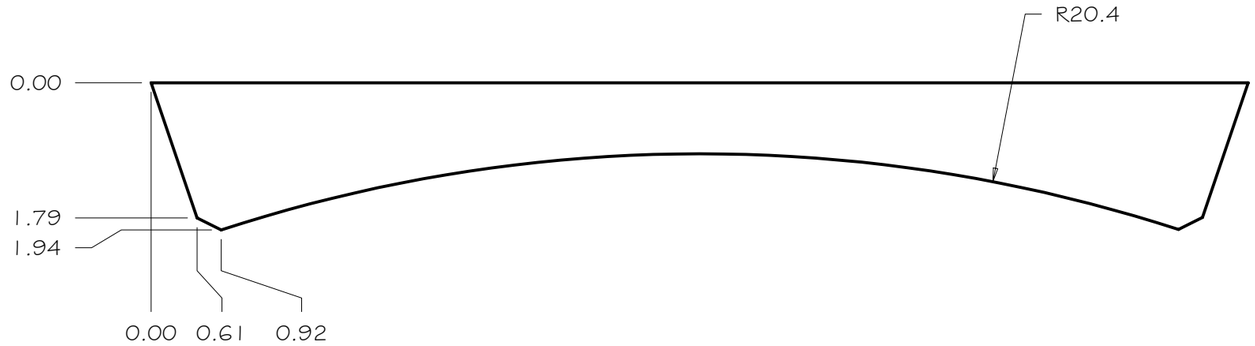
NEXT ASS'Y A0001

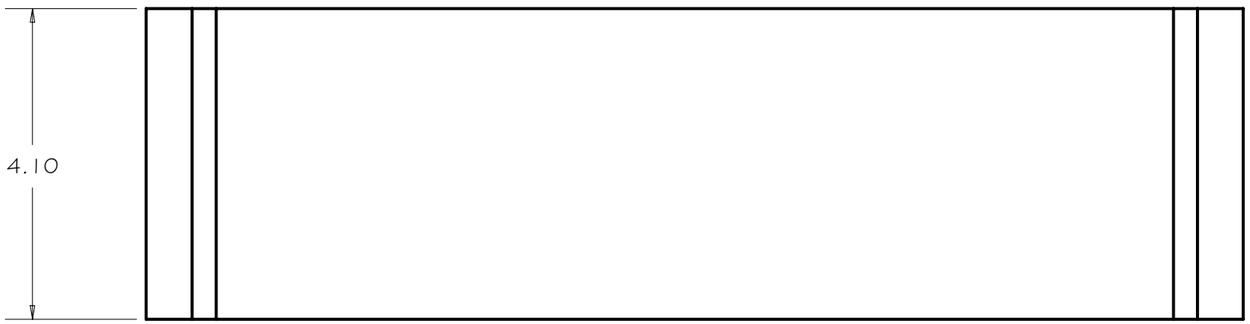
SHEET 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION









SCALE 1 / 2

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 2/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

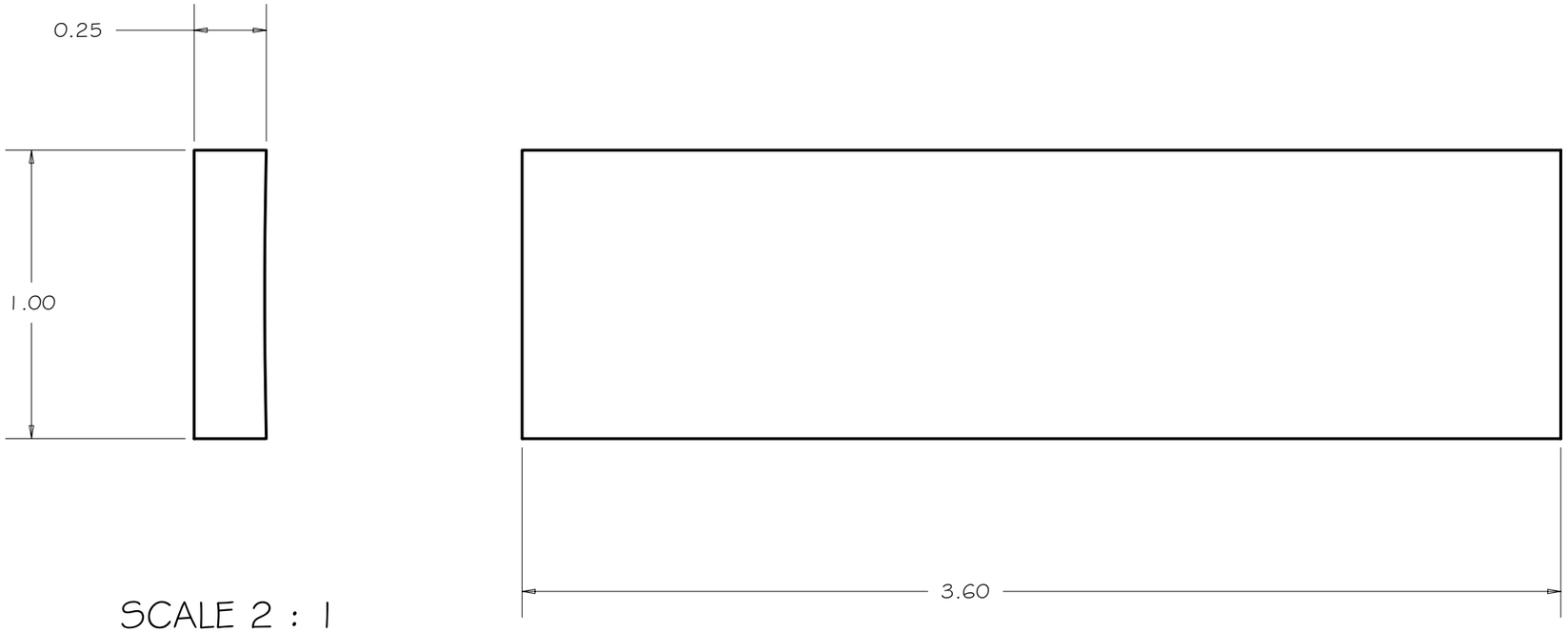
QTY: 2

Cassegrain ADC

TITLE: SIDE BLOCK, FWD

PROJECT CODE:
NEXT ASS'Y: A2020
DWG NO: A2022
REV: A
SHEET 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 2 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

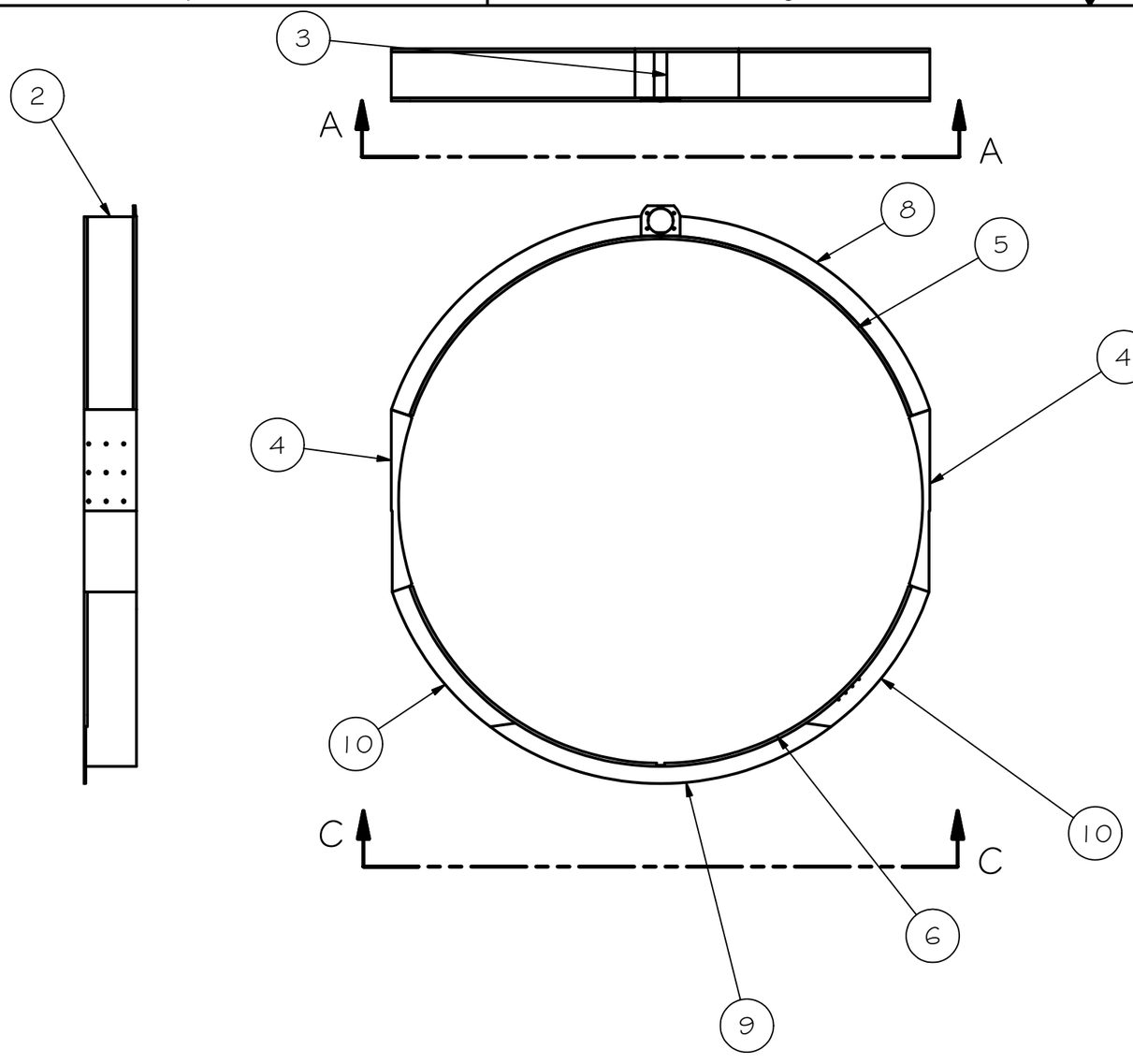
QTY: 1

DRAWN	vernon	2/19/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

TITLE: STIFFENER, FWD

PROJECT CODE:
NEXT ASS'Y: A2020
DWG NO: A2021
REV: A
1 / 1



Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A2015	CYLINDER, OUTER
2	1	A2016	CYLINDER, OUTER
3	1	A2021	STIFFENER
4	2	A2022	SIDE BLOCK, FWD
5	1	A2023	LOWER CYLINDER, FWD
6	1	A2024	UPPER CYLINDER, FWD
7	1	A2025	FLANGE, FWD
8	1	A2026	FLANGE, DRIVE, FWD
9	1	A2027	FLANGE THIN, FWD
10	2	A2028	FLANGE, THIN, FWD

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	10/9/2003
CHECKED		
DESIGNED	vernon	
ENGINEER		

Cassegrain ADC

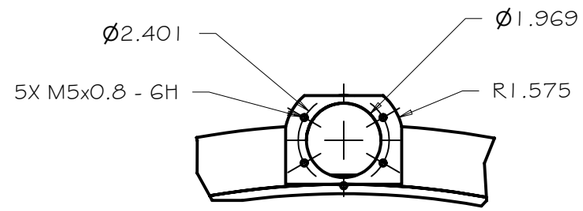
TITLE: CELL WELDMENT, FORWARD

QTY: 1

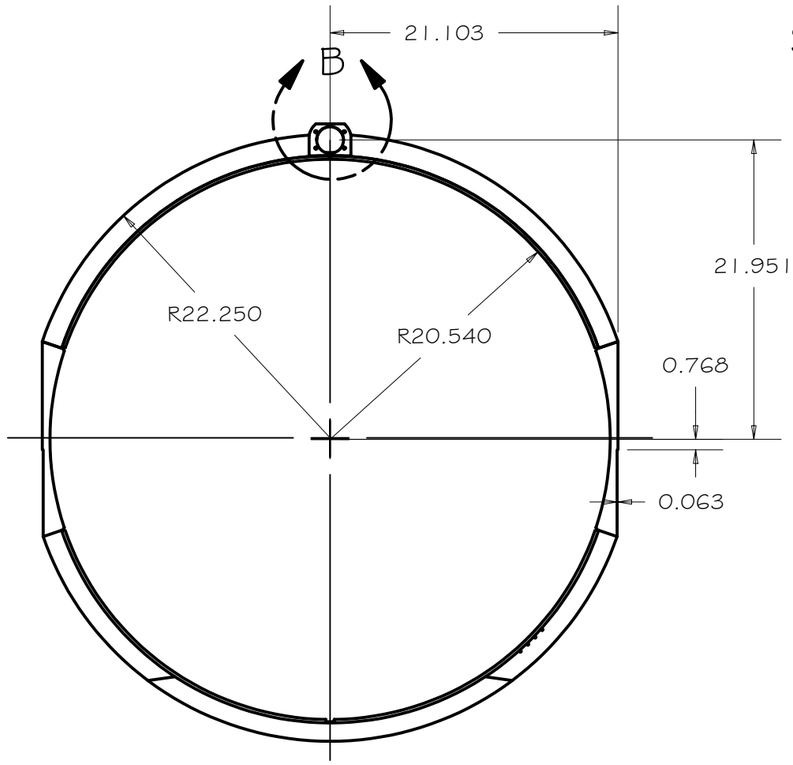
PROJECT CODE | DWG NO: A2020 | REV: A

NEXT ASS'Y: A2001

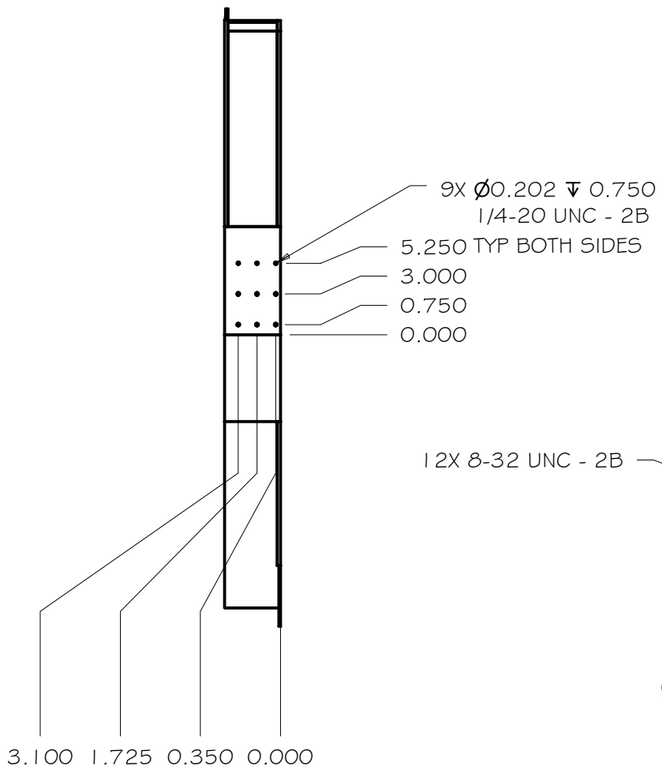
1/3

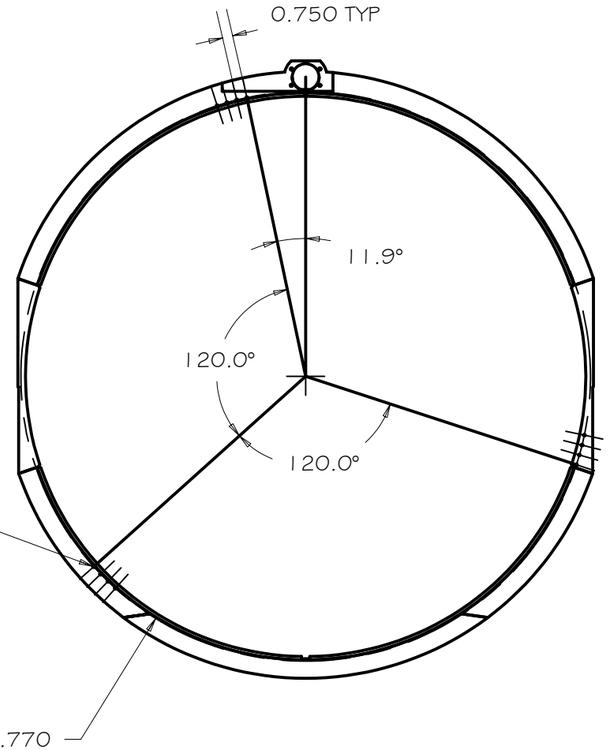


DETAIL B
SCALE 1 / 4



VIEW A-A
SCALE 0.09 : 1





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	10/9/2003
CHECKED		
DESIGNED	vernon	
ENGINEER		

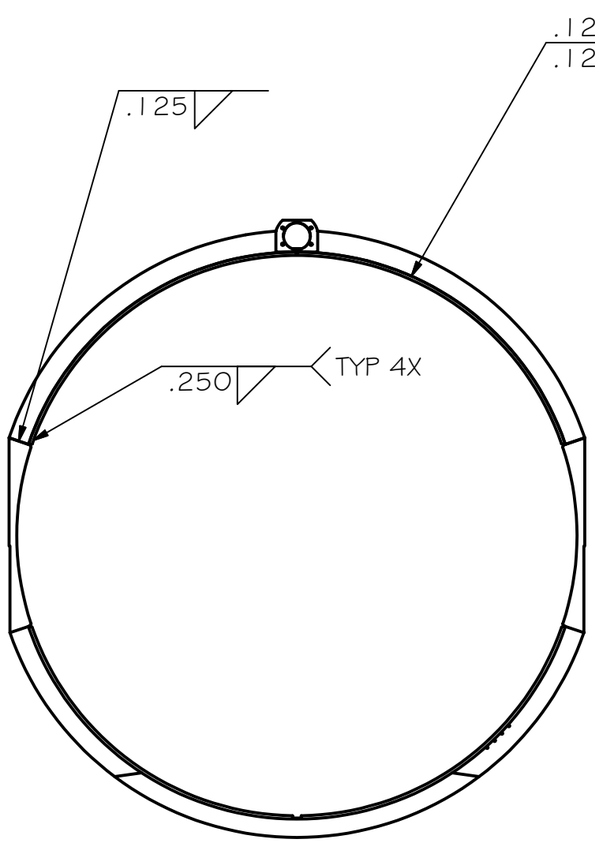
Cassegrain ADC

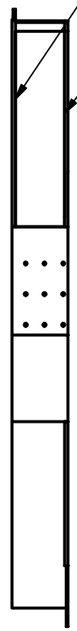
TITLE: CELL WELDMENT, FORWARD

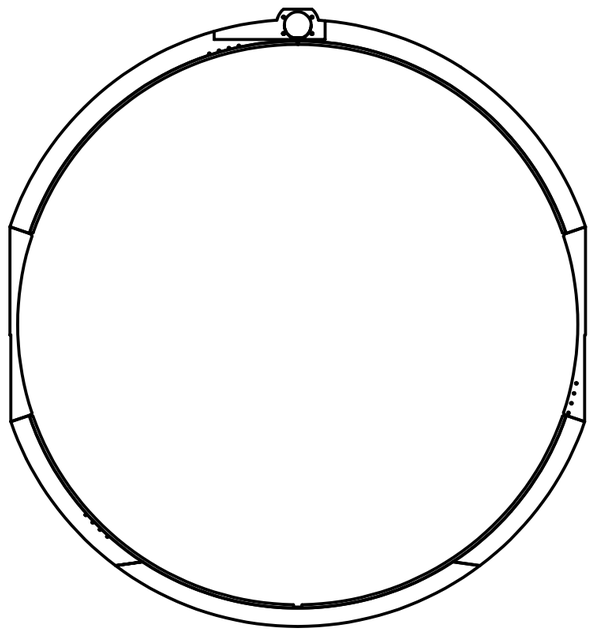
PROJECT CODE | DWG NO: A2020 | REV: A

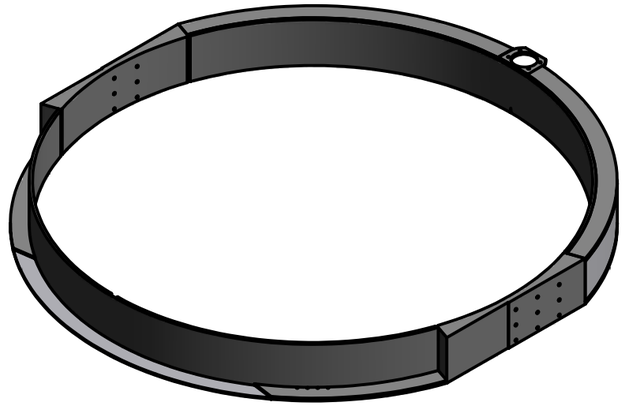
NEXT ASS'Y: A2001

2 / 3









VIEW C-C
SCALE 0.09 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

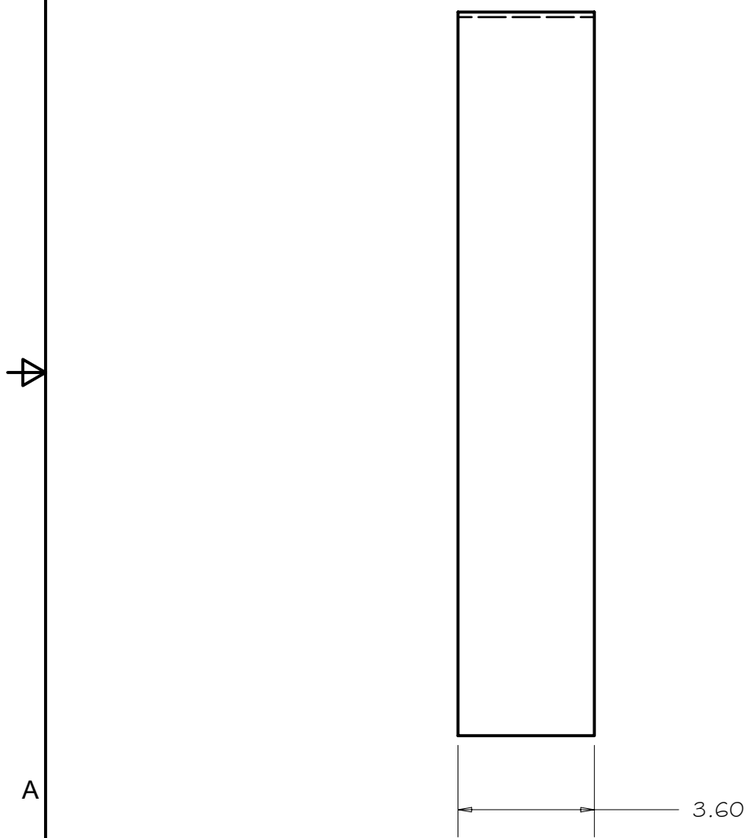
DRAWN vernon 10/9/2003
CHECKED
DESIGNED vernon
ENGINEER

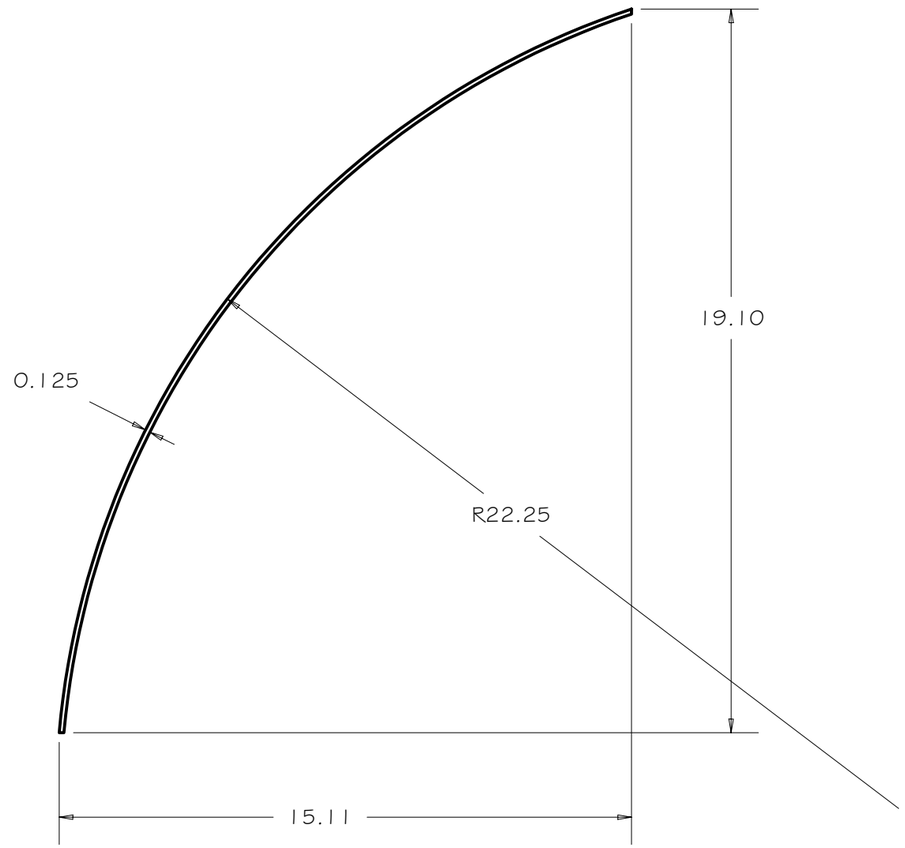
Cassegrain ADC

TITLE: CELL WELDMENT, FORWARD

PROJECT CODE
NEXT ASS'Y A2001
DWG NO A2020
REV A
3/3

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/25/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

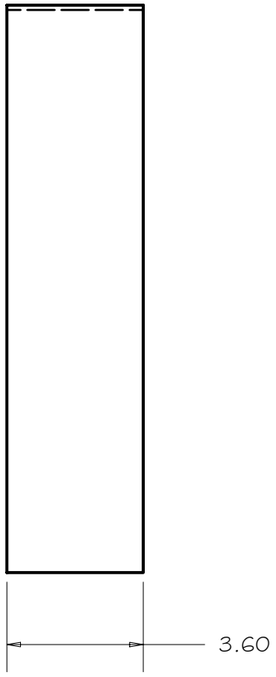
QTY: 1

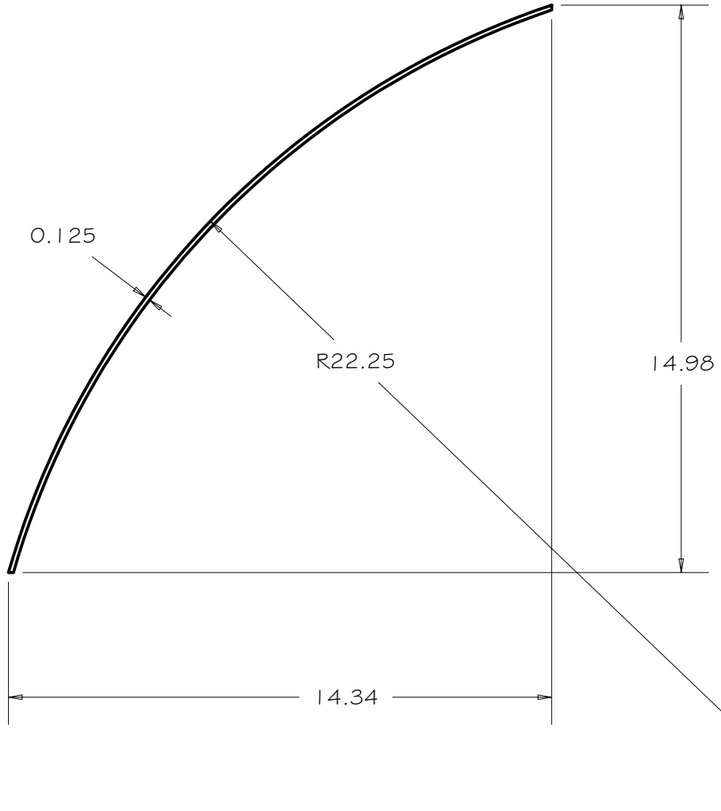
Cassegrain ADC

TITLE: CYLINDER, OUTER

PROJECT CODE:
NEXT ASS'Y: A2020
DWG NO: A2016
REV: A
SHEET: 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/25/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

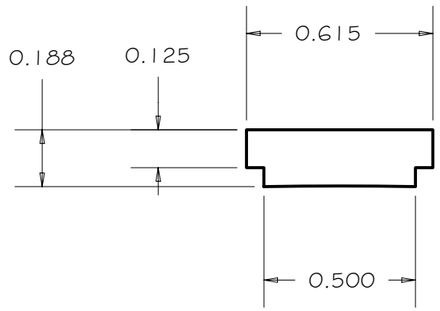
QTY: 1

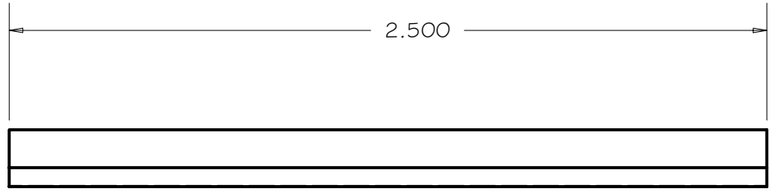
Cassegrain ADC

TITLE: CYLINDER, OUTER

PROJECT CODE:
NEXT ASS'Y: A2020
DWG NO: A2015
REV: A
1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: INVAR
FINISH:

LICK OBSERVATORY

DRAWN: vernon 9/4/2003
CHECKED:
DESIGNED: vernon
ENGINEER:

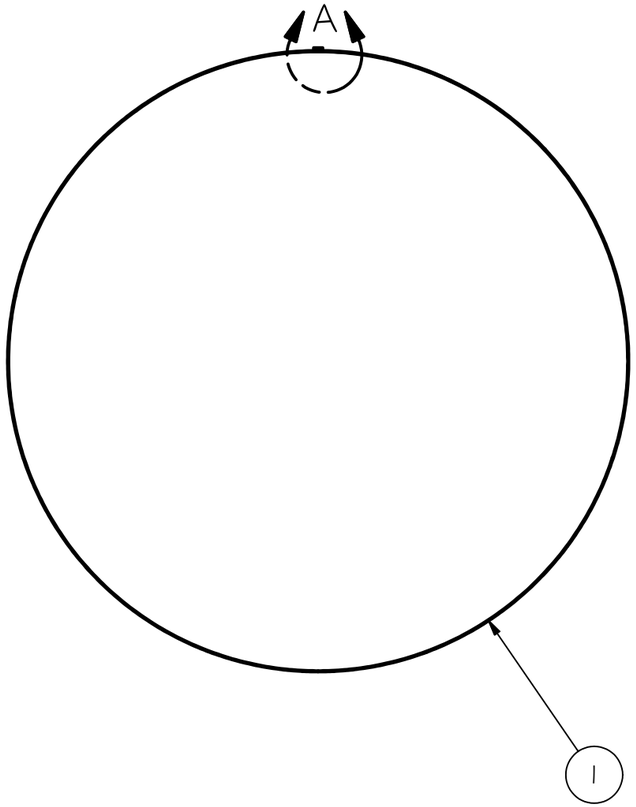
QTY: 2

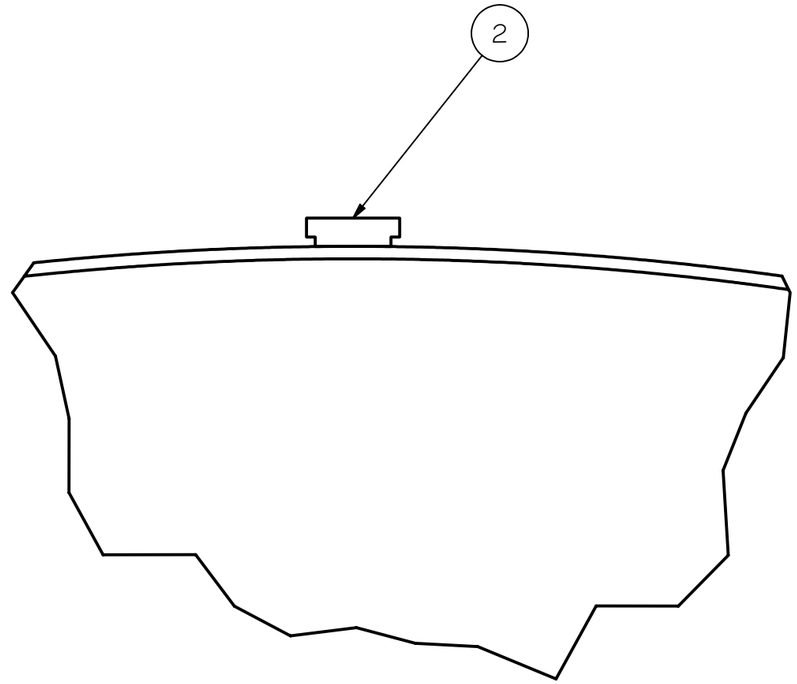
Cassegrain ADC

TITLE: INDEX, OPTIC

PROJECT CODE:
NEXT ASS'Y: A2012
DWG NO: A2014
REV: B
SHEET 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





DETAIL A
SCALE 1 : 1

NOTES:
POSITION INDEX ON THICK EDGE OF PRISM
+- .25" ON CIRCUMFERENCE
PERPENDICULAR TO FLAT SURFACE +-0.005"
BOND PER PROCEDURE ON SHEET 2.

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A2010	OPTIC, ADC
2	1	A2014	INDEX, OPTIC

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	9/4/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

QTY: 1

Cassegrain ADC

TITLE: OPTIC ASSEMBLY

PROJECT CODE | NEXT ASS'Y: A2001 | DWG NO: A2012 | REV: A | 1/2

REV	DRWN	CHK'D	DATE	DESCRIPTION

CLEANING PROCEDURE - INVAR:
ACETONE WASH, BEADBLAST, DRY NITROGEN CLEAN AND ALCOHOL RINSE.

CLAENING PROCEDURE - FUSED SILICA:
3-DAY AMMONIUM BIFLOURIDE ETCH, WATER RINSE AND ALCOHOL RINSE.

GLUEING PROCEDURE:
A: HYSOL EA9313 MIXED 4:1 BY VOLUME IN A CLEAN PLASTIC CONTAINER

B: CURE TIME IS 5 DAYS AND 75°F.

1. GLUE GAP IS TO BE 0.010" THICK
2. USE TEFLON SPACERS AND GUIDES TO POSITION AND MAINTAIN GAP DURING CURING.
3. REFERENCE: KECK OBSERVATORY PMSS BY ANDY DUBOIS, DATED 11-26-90, "EPOXY BONDS AFOR SEGMENT INSERTS."
4. SOLVENT FOR CURED EPOXY IS METHYLENE CHLORIDE.
5. INSPECT GLUE JOINT FOR BUBBLES BY OBSERVING THROUGH SURFACE OF PRISM.
6. DEXTER HYSOL AE9313 EPOXY RESIN
   VENDOR: EV ROBERTS & ASSOCIATES
   8500 STELLER
   CULVER CITY, CA 90232
   (213) 870-9561

PROPERTIES:
1. POT LIFE 60 MIN.
2. TENSILE STRENGTH 6300 PSI
3. SHEAR STRENGTH 4000 PSI
4. USEABLE TEMPERATURE RANGE: ROOM TEMP TO -40°F.
5. HUMIDITY AND CONDENSATION TOLERANT.
6. 5 DAY CURE AT 75°F.

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

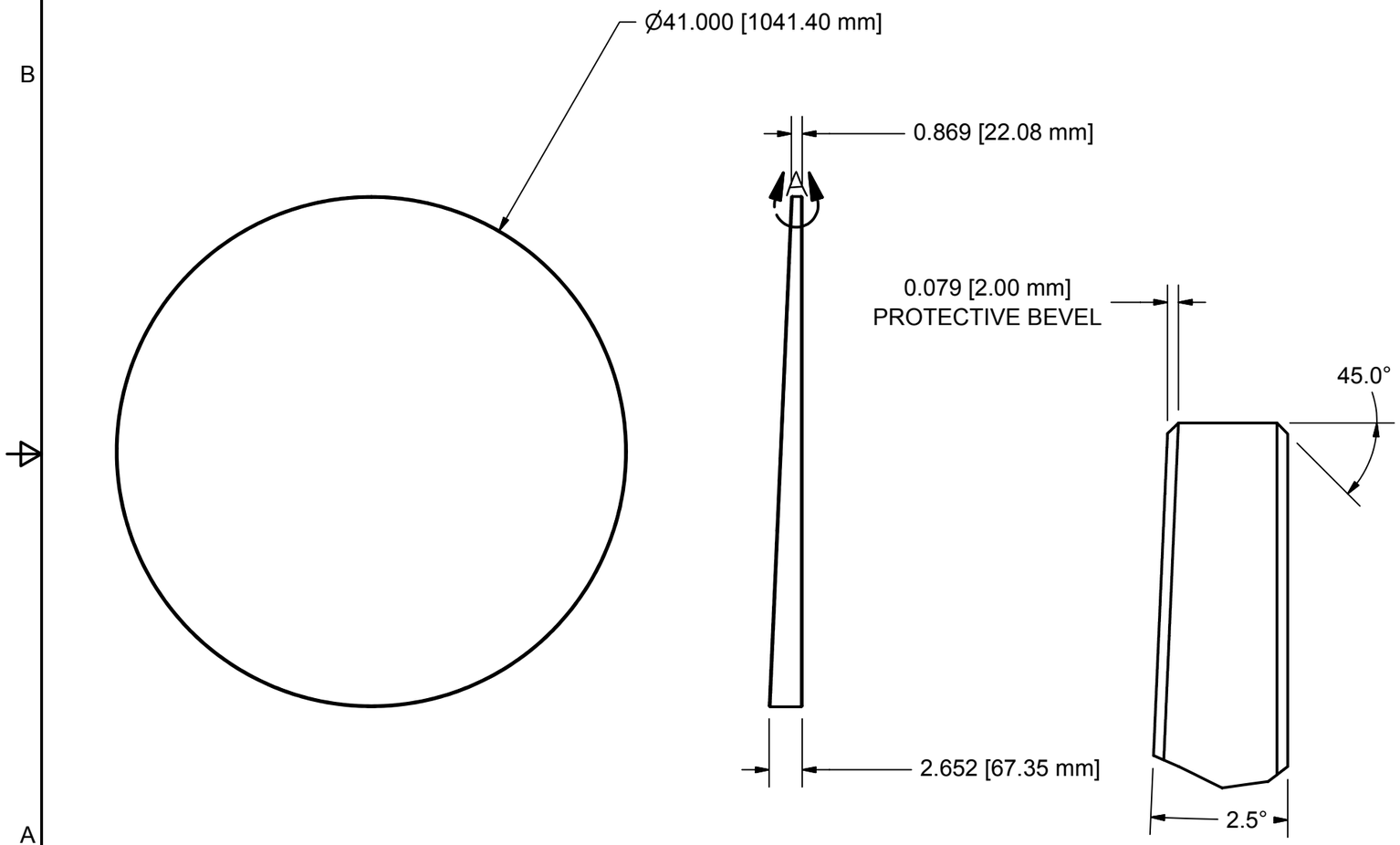
DRAWN vernon 9/4/2003
CHECKED
DESIGNED vernon
ENGINEER vernon

Cassegrain ADC

TITLE: OPTIC ASSEMBLY

PROJECT CODE
NEXT ASS'Y A2001
DWG NO A2012
REV A
2/2

REV	DRWN	CHK'D	DATE	DESCRIPTION



DETAIL A
SCALE 1 : 1

BLANK SUPPLIED FROM CORNING WITH FOLLOWING SPECS.

2.5" WEDGE, +-1 MINUTE
MATERIAL: CORNING HPFS STANDARD GRADE 3D
TOP AND BOTTOM SURFACES WILL BE 320 GRIT OR BETTER

GRIND AND POLISH TO FOLLOWING SPECS.

2.5" ANGLE +- 1 MINUTE
TOP AND BOTTOM SURFACES FLAT TO 1 WAVE OR BETTER OVER ANY 24" DIAMETER, C.A. 39.96"
SCRATCH/DIG -60/40
BEVELS ON EDGES AS SHOWN

QUANTITY: 2 PIECES

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	5/23/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

QTY: 2

Cassegrain ADC

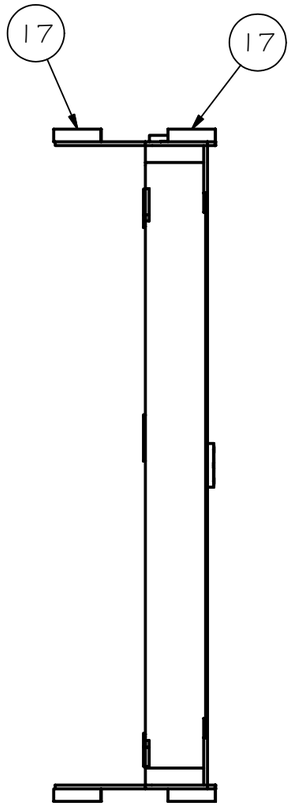
TITLE: ADC OPTIC

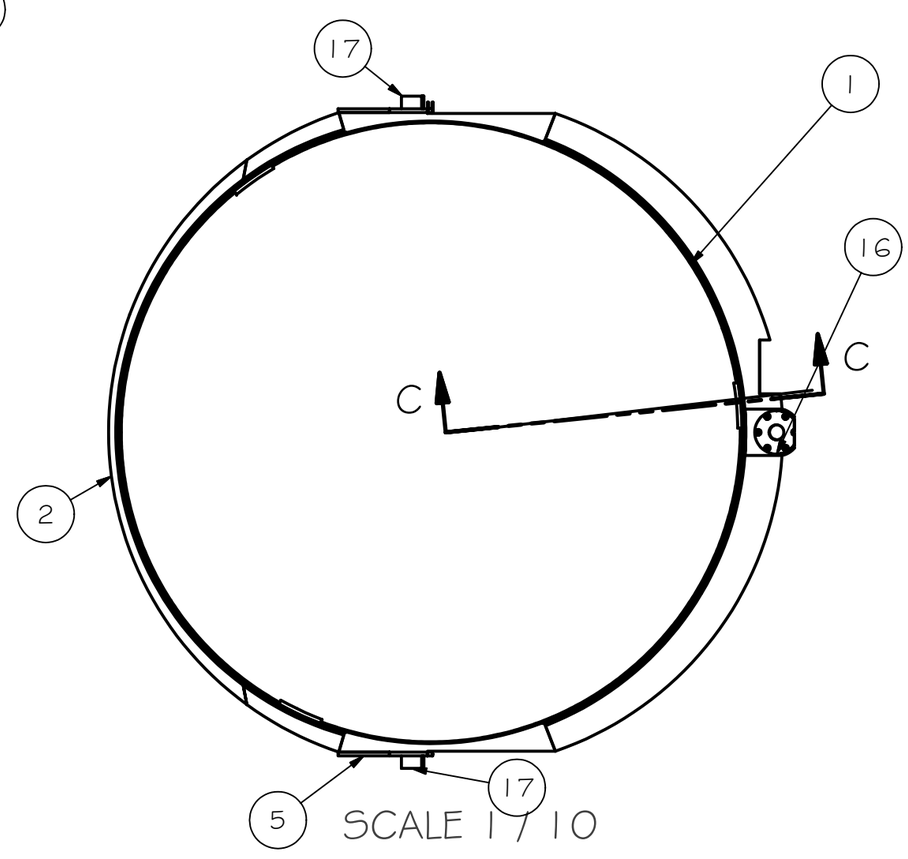
PROJECT CODE | DWG NO: A2010 | REV: B

NEXT ASS'Y: A2012

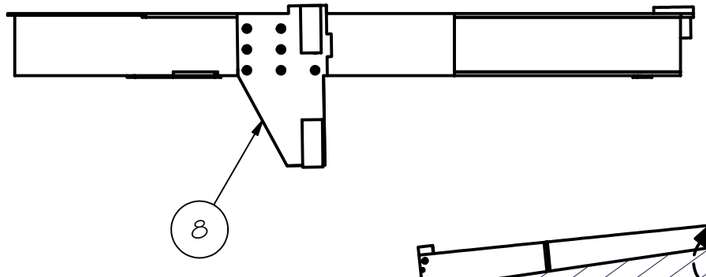
1 / 1

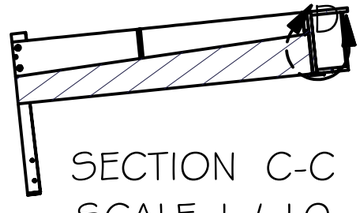
REV	DRWN	CHK'D	DATE	DESCRIPTION



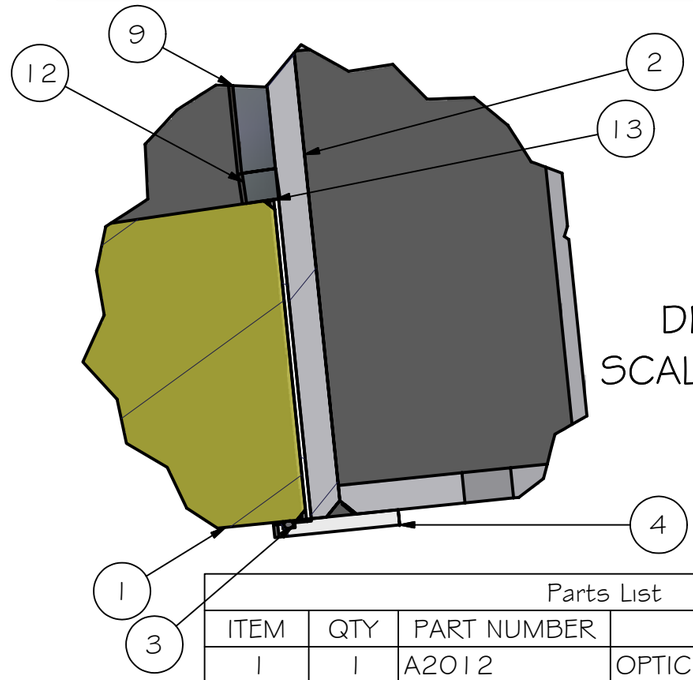


SCALE 1 / 10





SECTION C-C
SCALE 1 / 10



DETAIL D
SCALE 0.80 : 1

Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A2012	OPTIC ASSEMBLY
2	1	A2030	CELL WELDMENT, AFT
3	3	A2040	O-RING SECTION
4	3	A2041	RETAINER, OPTIC, AFT
5	1	A2042	SLIDE MOUNT
6	1	A2046	FIDUCAL TAB, LONG
7	1	A2047	FIDUCAL TAB, SHORT
8	1	A2048	SLIDE MOUNT
9	1	A2050	AXIAL CLAMP
10	1	A2051	AXIAL CLAMP
11	1	A2052	AXIAL CLAMP
12	3	A2060	AXIAL SPACER
13	1	A2061	RADIAL SPACER
14	1	A2062	RADIAL SPACER
15	1	A2063	RADIAL SPACER
16	1	BALL NUT	THK BNF-2505-5
17	4	BALL SLIDE	THK SHS-20-V SLIDE

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

QTY: 1

DRAWN	vernon	9/19/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

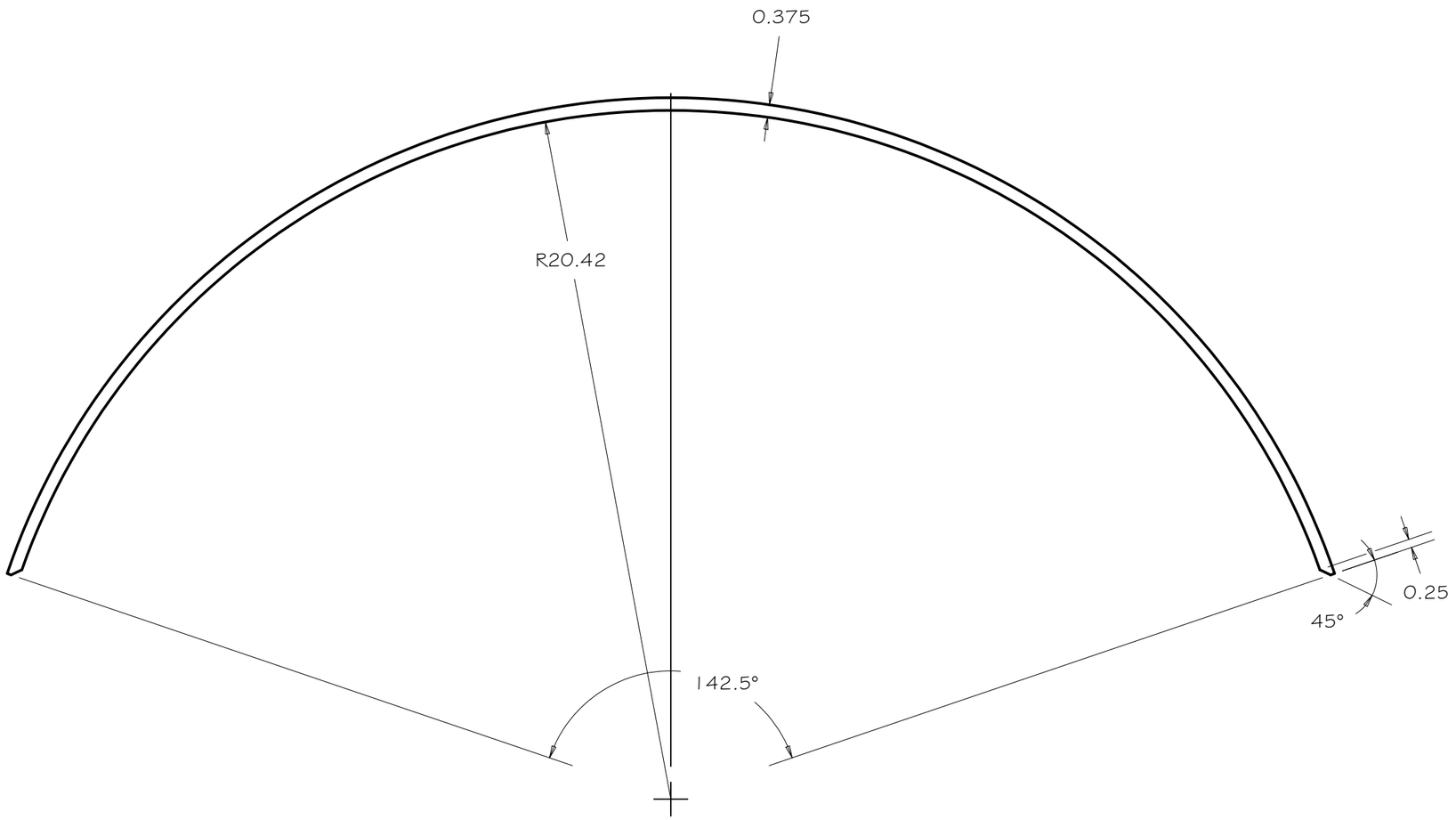
Cassegrain ADC

TITLE: CELL ASSEMBLY, AFT

PROJECT CODE | DWG NO: A2002 | REV: A | 1 / 1

NEXT ASS'Y: A0001

REV	DRWN	CHK'D	DATE	DESCRIPTION



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 2/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

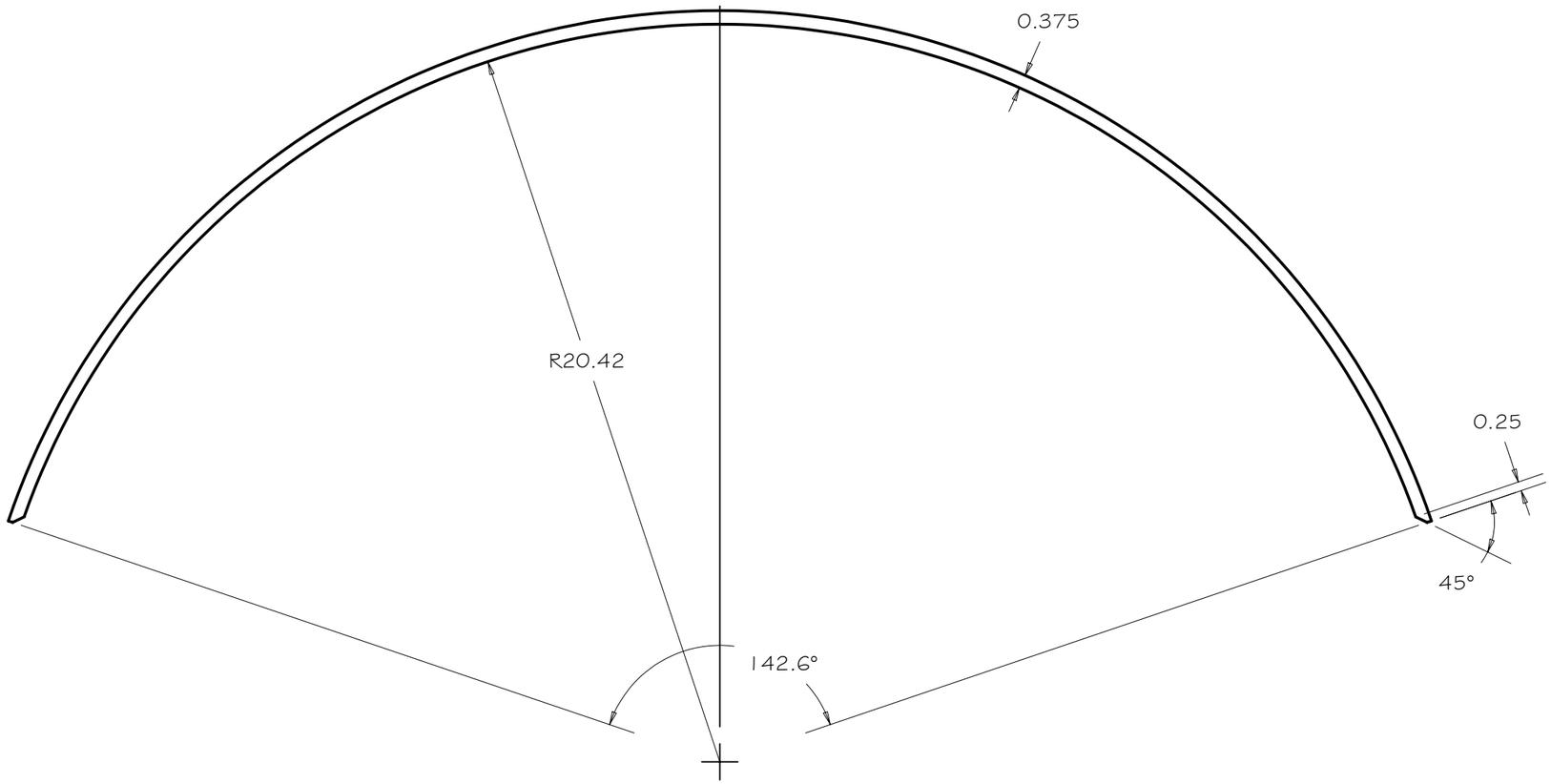
QTY: 1

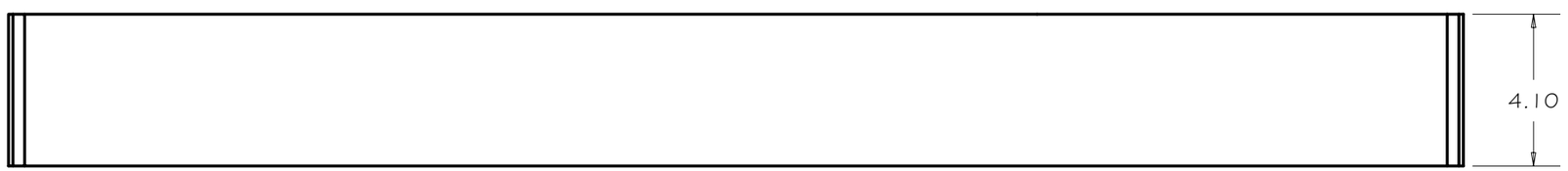
Cassegrain ADC

TITLE: LOWER CYLINDER, FWD

PROJECT CODE:
NEXT ASS'Y: A2020
DWG NO: A2023
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

QTY: 1

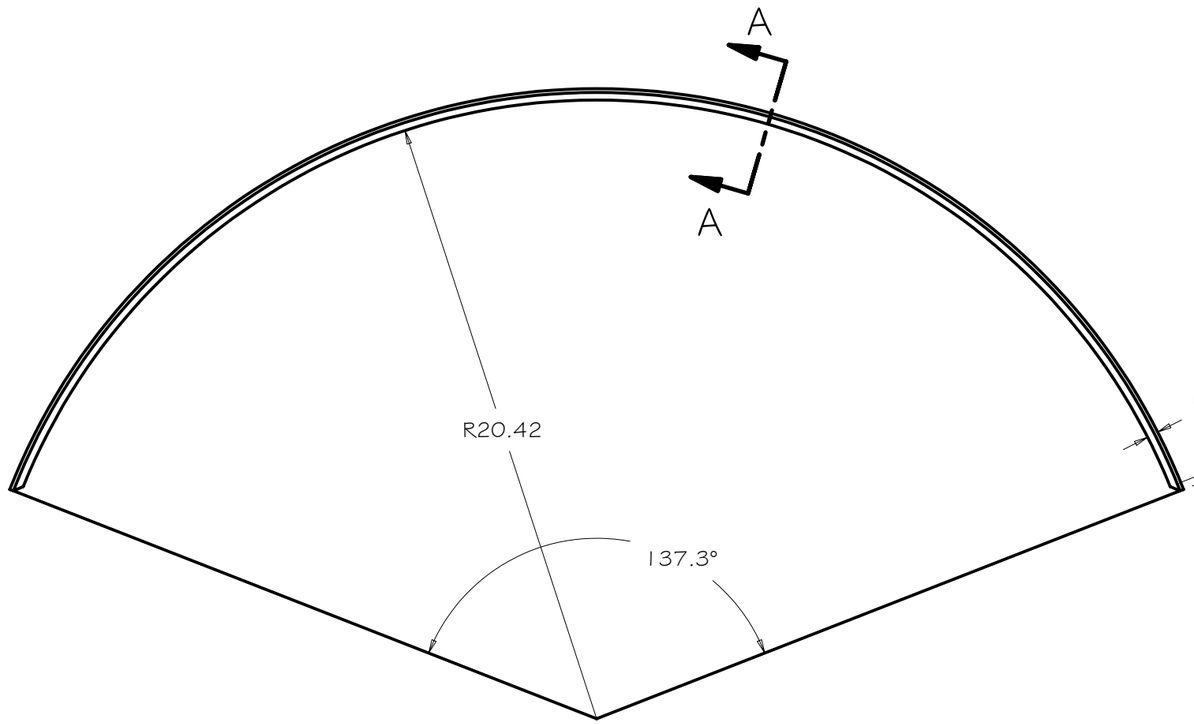
DRAWN	vernon	2/19/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

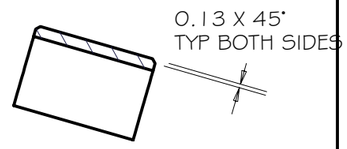
Cassegrain ADC

TITLE: UPPER CYLINDER, FWD

PROJECT CODE:
NEXT ASS'Y: A2020
DWG NO: A2024
REV: A
SHEET 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





SECTION A-A
SCALE 1 / 5

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

QTY: 1

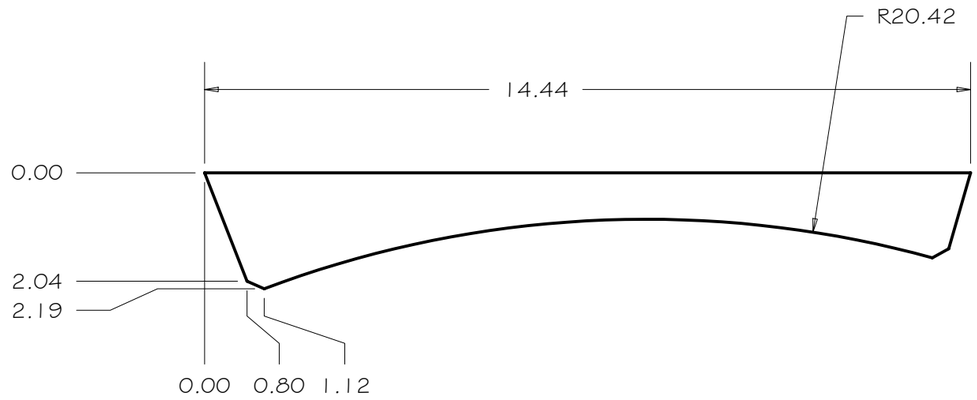
DRAWN	vernon	9/9/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

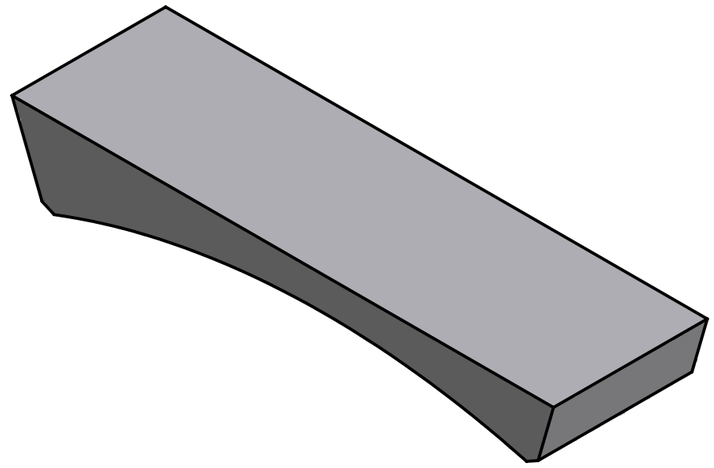
Cassegrain ADC

TITLE: LOWER CYLINDER, AFT

PROJECT CODE:
NEXT ASS'Y: A2030
DWG NO: A2033
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 9/9/2003
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

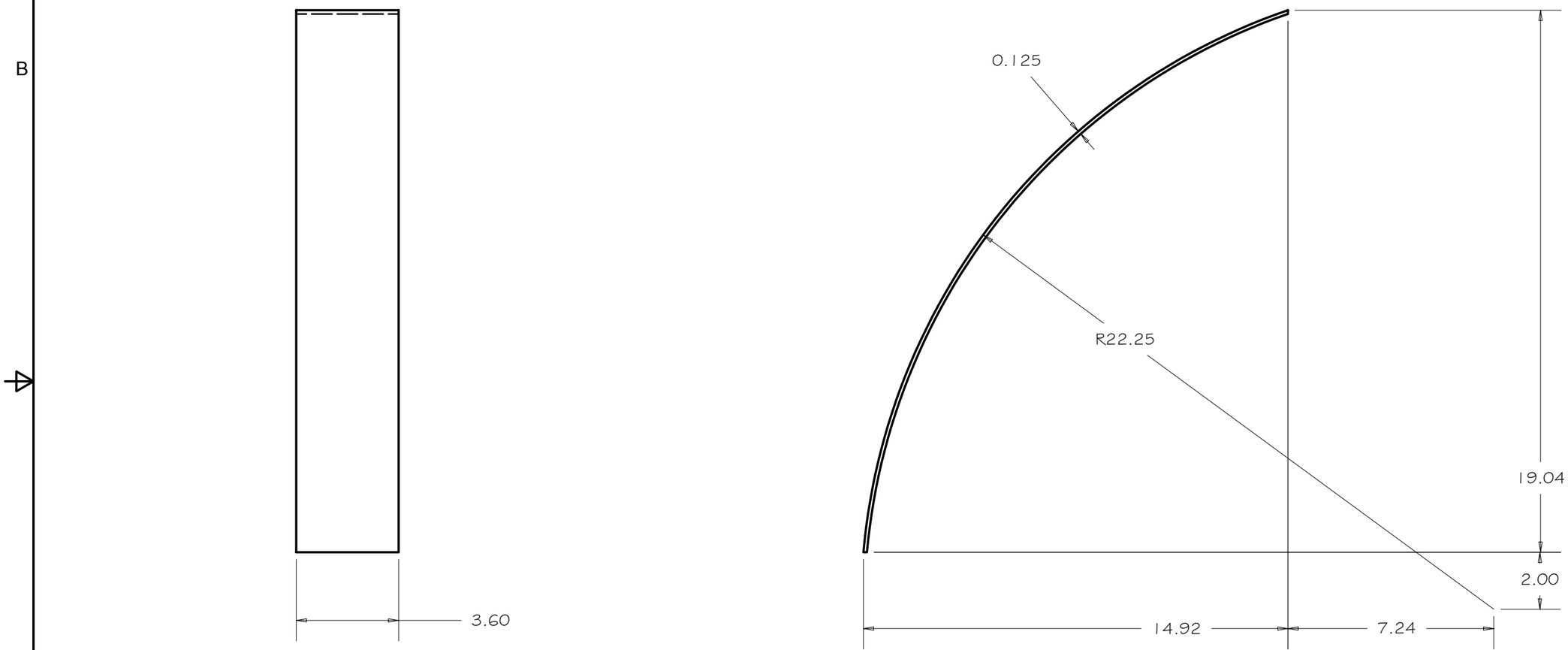
QTY: 2

Cassegrain ADC

TITLE: SIDE BLOCK, AFT

PROJECT CODE:
NEXT ASS'Y: A2030
DWG NO: A2032
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 1 / 4

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

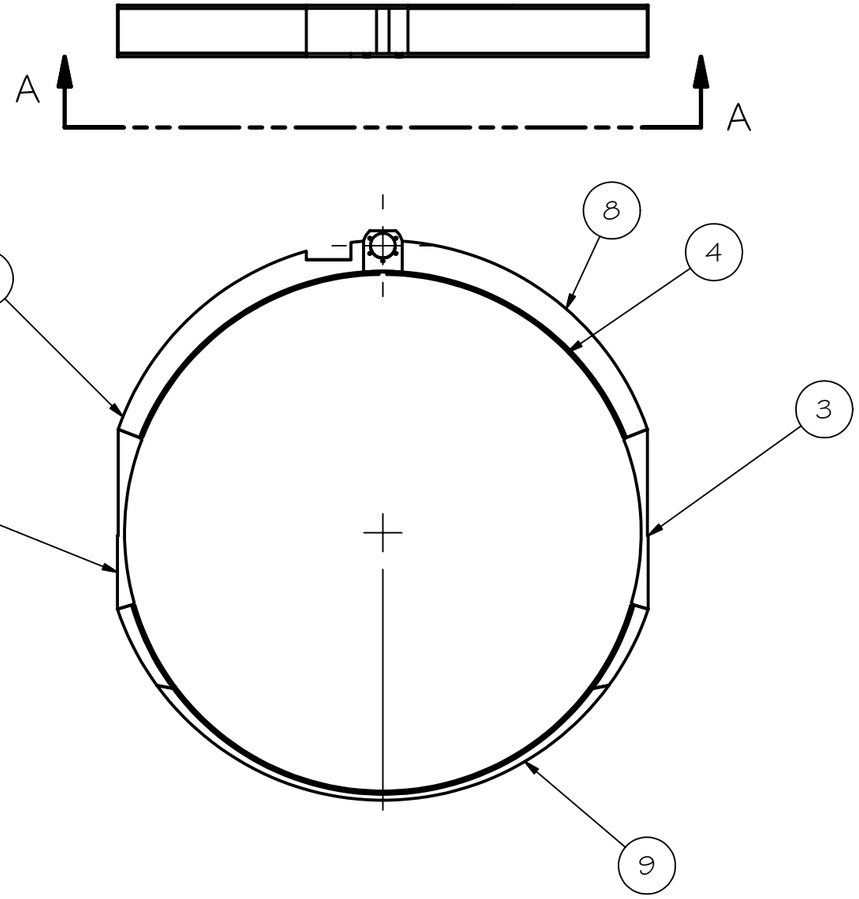
DRAWN: vernon 3/25/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

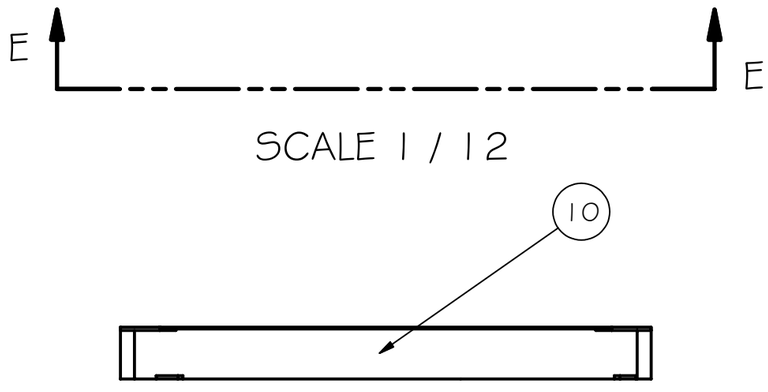
QTY: 1

Cassegrain ADC

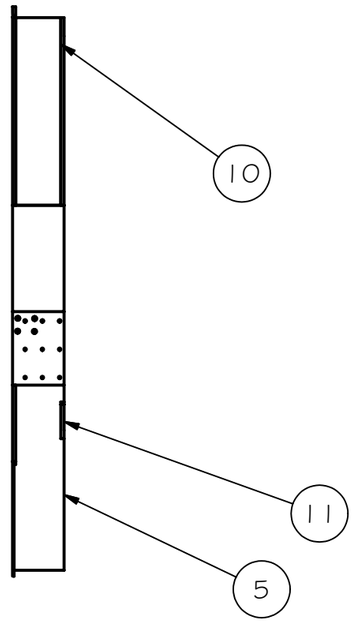
TITLE: CYLINDER, OUTER, AFT

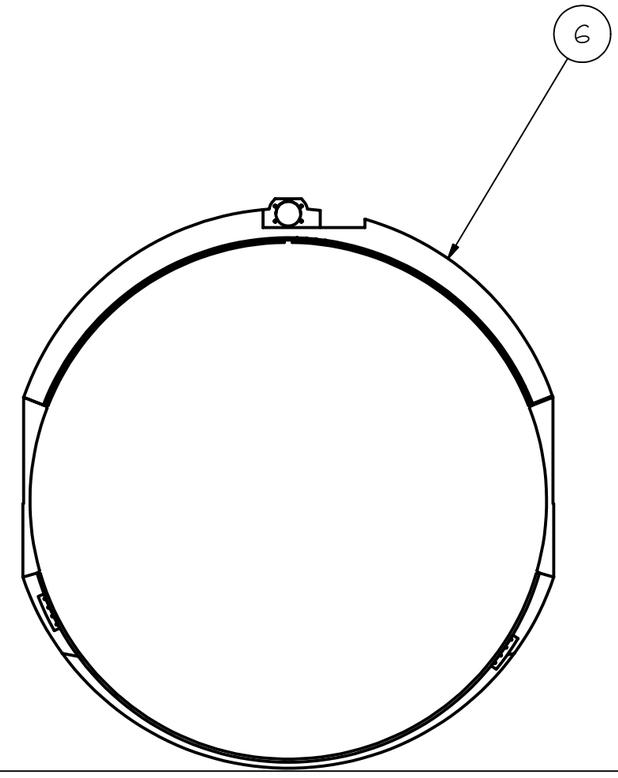
PROJECT CODE:
NEXT ASS'Y: A2030
DWG NO: A2031
REV: A
SHEET 1 / 1





SCALE 1 / 12





Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A2029	CYLINDER, OUTER, AFT
2	1	A2031	CYLINDER, OUTER, AFT
3	2	A2032	SIDE BLOCK, AFT
4	1	A2033	LOWER CYLINDER, AFT
5	1	A2034	UPPER CYLINDER, AFT
6	1	A2035	FLANGE, LOWER, AFT
7	1	A2036	FLANGE, DRIVE, AFT
8	2	A2037	FLANGE, SHORT, AFT
9	1	A2038	FLANGE, THIN, AFT
10	1	A2039	STIFFENER, AFT
11	2	A2043	AXIAL CLAMP BRACKET, AFT

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL

FINISH

LICK OBSERVATORY

DRAWN vernon 10/8/2003
CHECKED
DESIGNED vernon
ENGINEER vernon

QTY: 1

Cassegrain ADC

TITLE: CELL WELDMENT, AFT

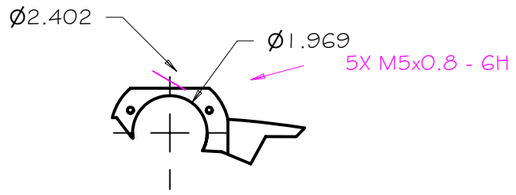
PROJECT CODE

DWG NO A2030

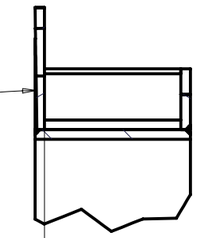
REV A

NEXT ASS'Y A2002

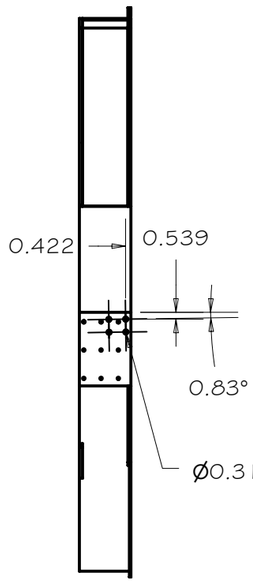
1 / 3

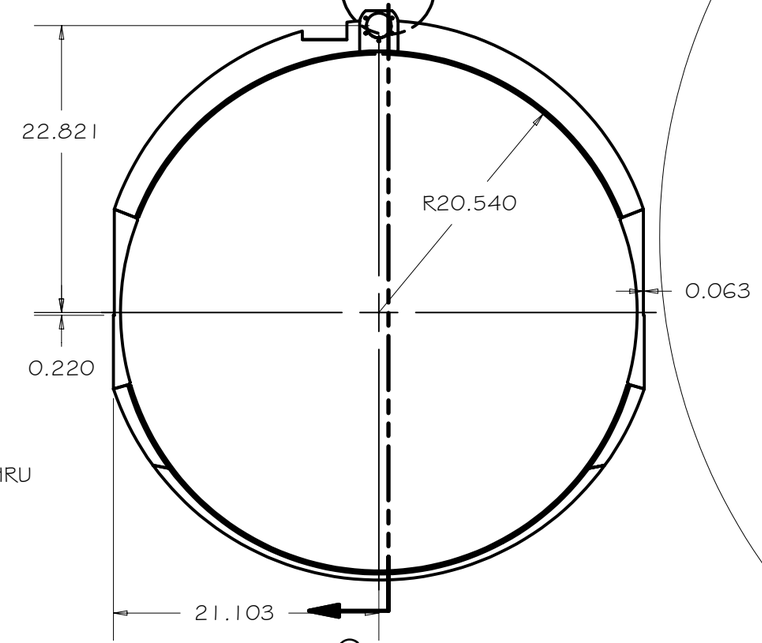


DETAIL B
SCALE 1 / 4

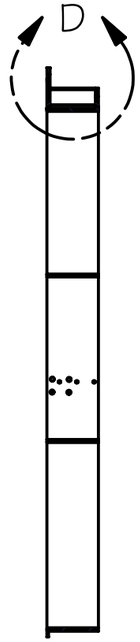


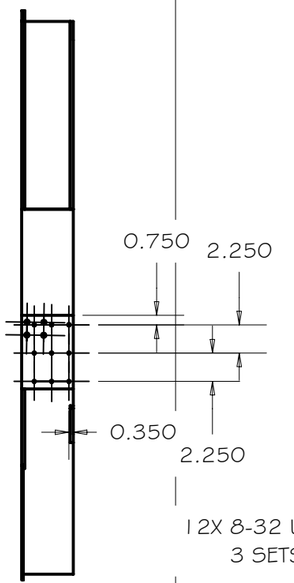
DETAIL D
SCALE 1 / 4



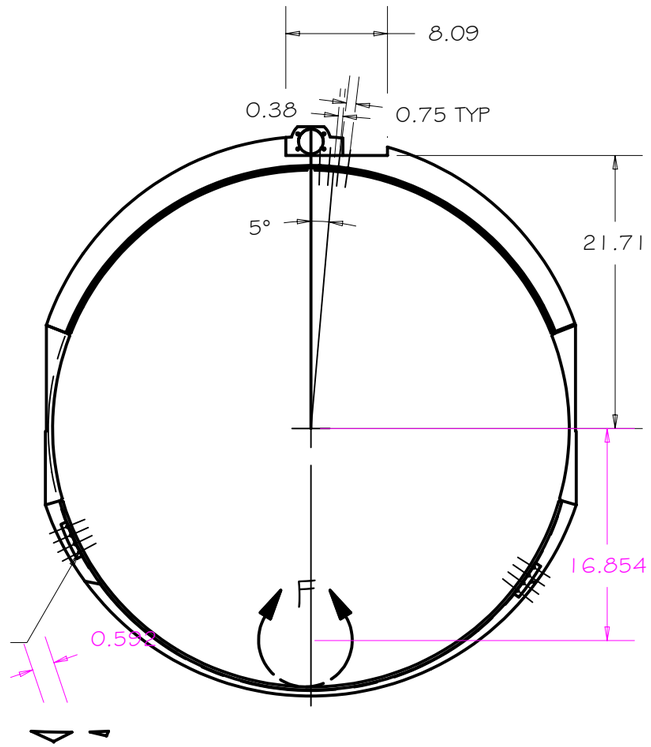


VIEW A-A
SCALE 1 / 12





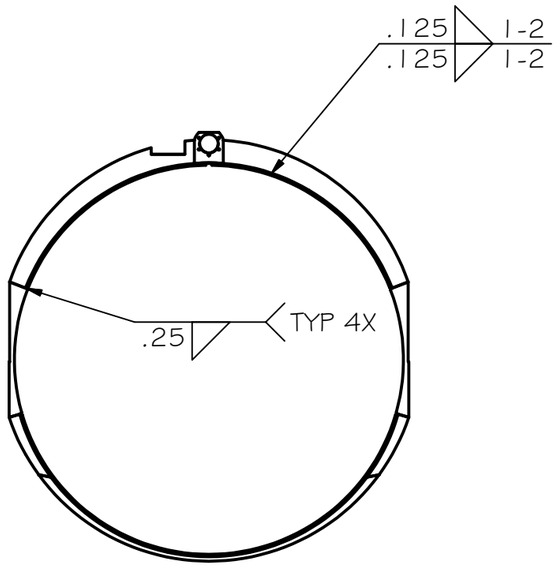
SECTION C-C
SCALE 1 / 12

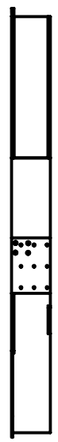


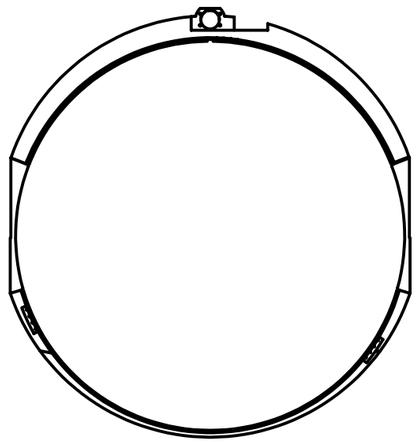
DETAIL F
SCALE 1 / 4

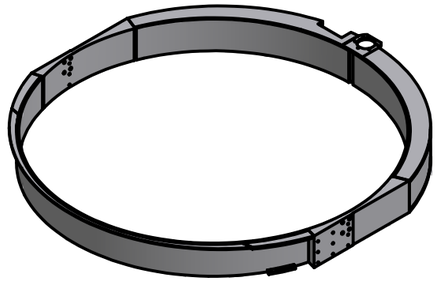
TOLERANCES UNLESS OTHERWISE NOTED: FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16" DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001" ANGLES: ±0.5° FINISH: 125 MICRO INCHES BREAK ALL SHARP EDGES & CORNERS 1/64" MAX	LICK OBSERVATORY	DRAWN vernon	10/8/2003	Cassegrain ADC
		CHECKED		TITLE: CELL WELDMENT, AFT
		DESIGNED vernon		
		ENGINEER vernon		
MATERIAL / FINISH		PROJECT CODE	DWG NO A2030	REV A
		NEXT ASS'Y A2002		2 / 3

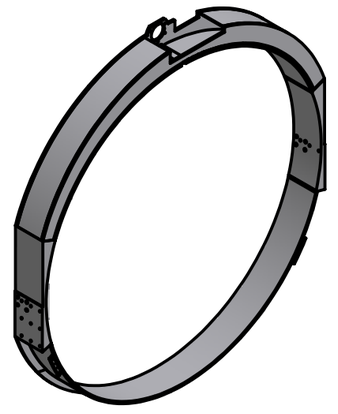
179.7°

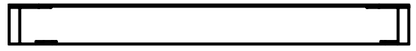












VIEW E-E
SCALE 1 / 16

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL

FINISH

LICK OBSERVATORY

DRAWN vernon 10/8/2003
CHECKED
DESIGNED vernon
ENGINEER vernon

Cassegrain ADC

TITLE
CELL WELDMENT, AFT

PROJECT CODE

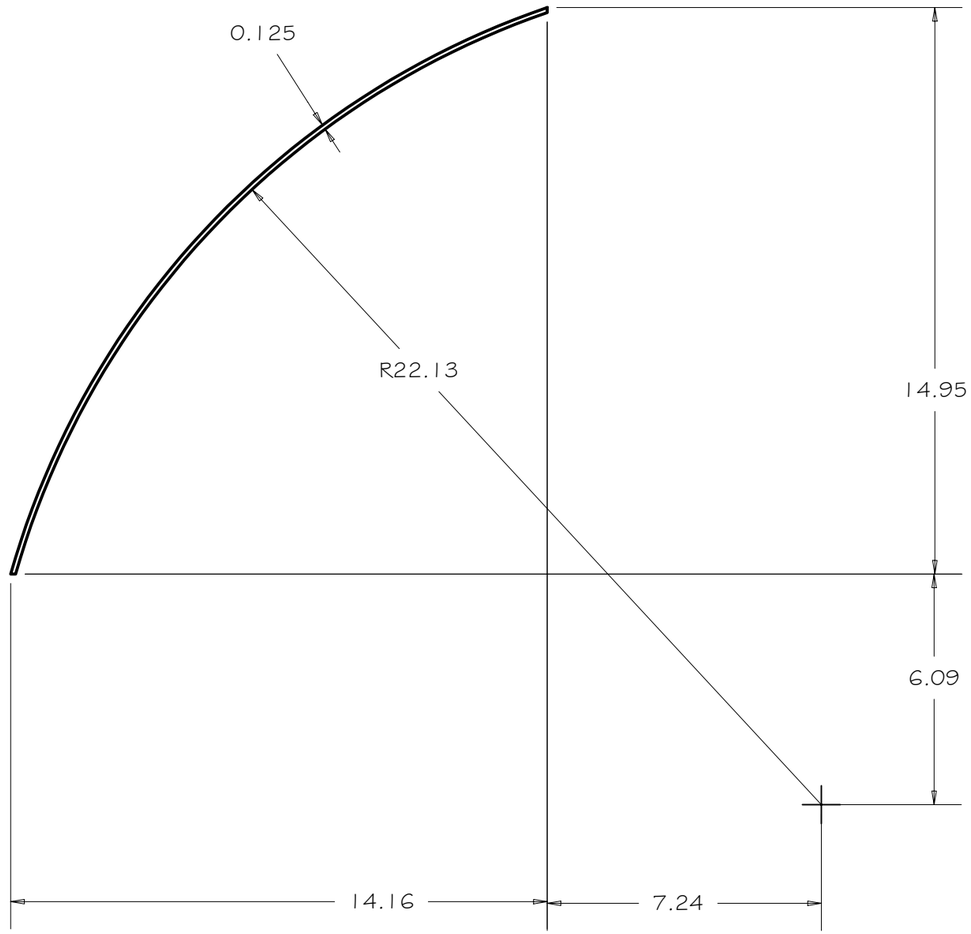
DWG NO
A2030

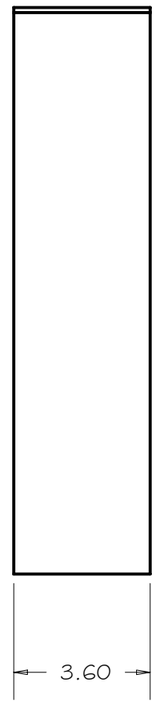
REV
A

NEXT ASS'Y
A2002

3 / 3

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL	

LICK OBSERVATORY

DRAWN	vernon	2/19/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

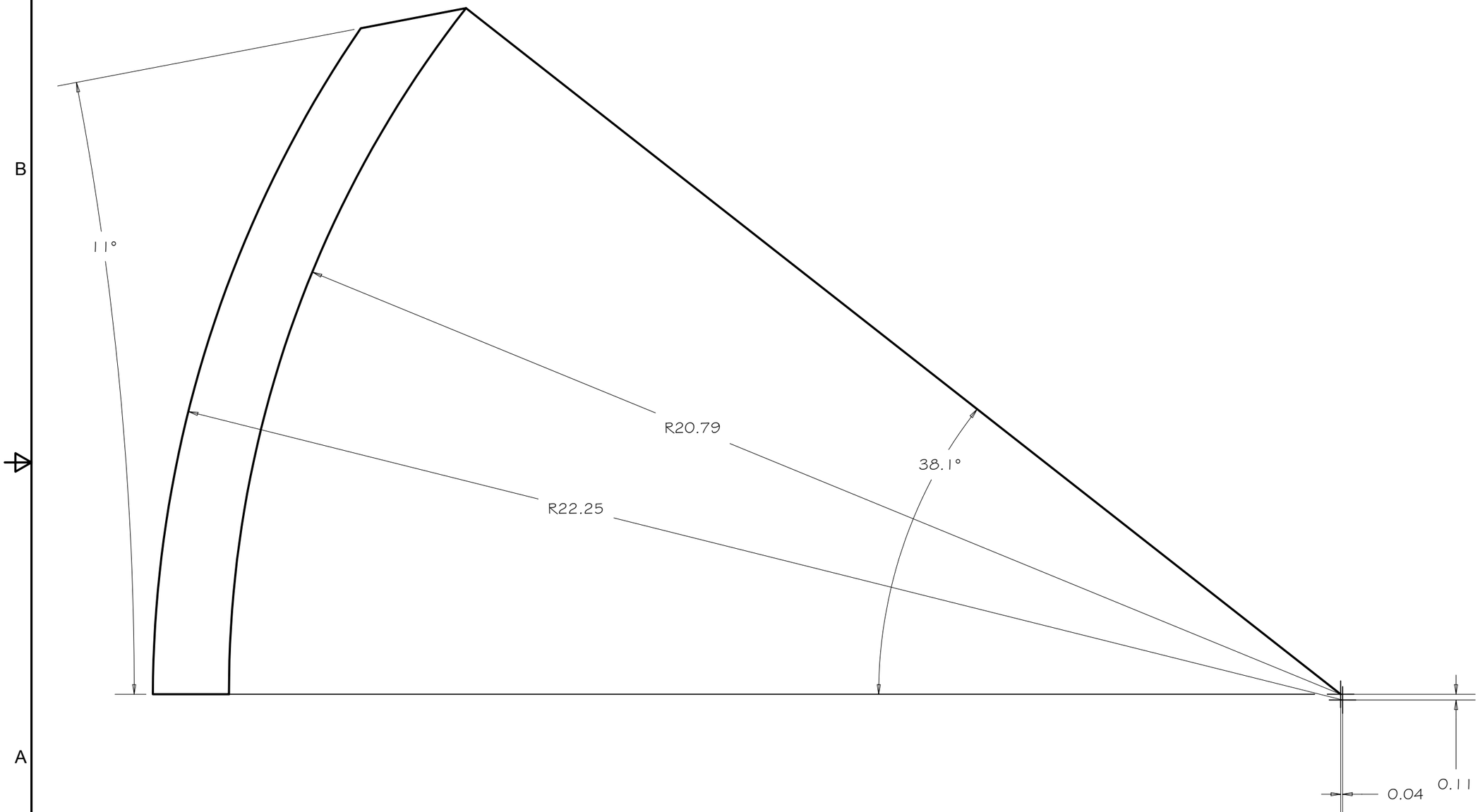
QTY: 1

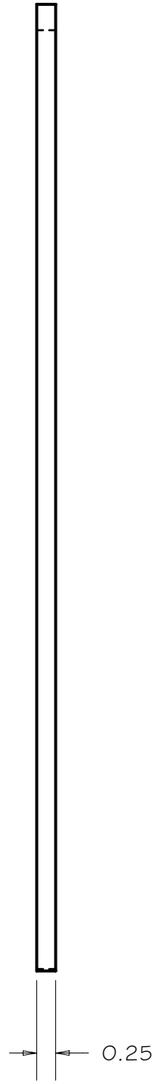
Cassegrain ADC

TITLE: CYLINDER, OUTER, AFT

PROJECT CODE	DWG NO	REV
NEXT ASS'Y: A2030	A2029	A

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 2/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

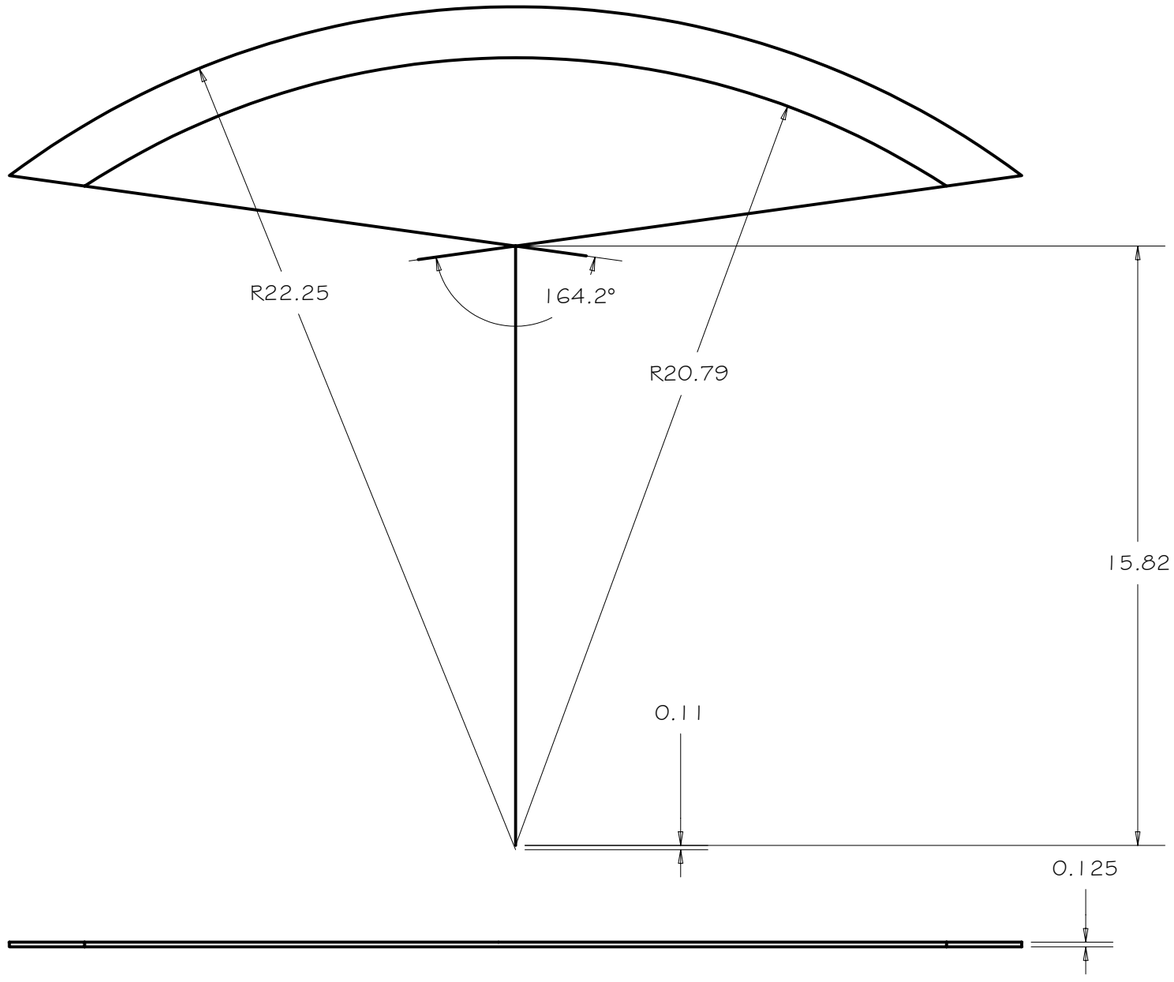
QTY: 2

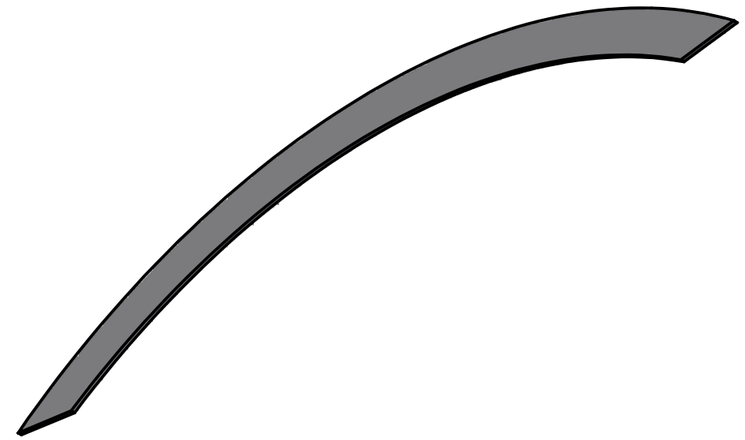
Cassegrain ADC

TITLE: FLANGE, THIN, FWD

PROJECT CODE:
NEXT ASS'Y: A2020
DWG NO: A2028
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 2/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

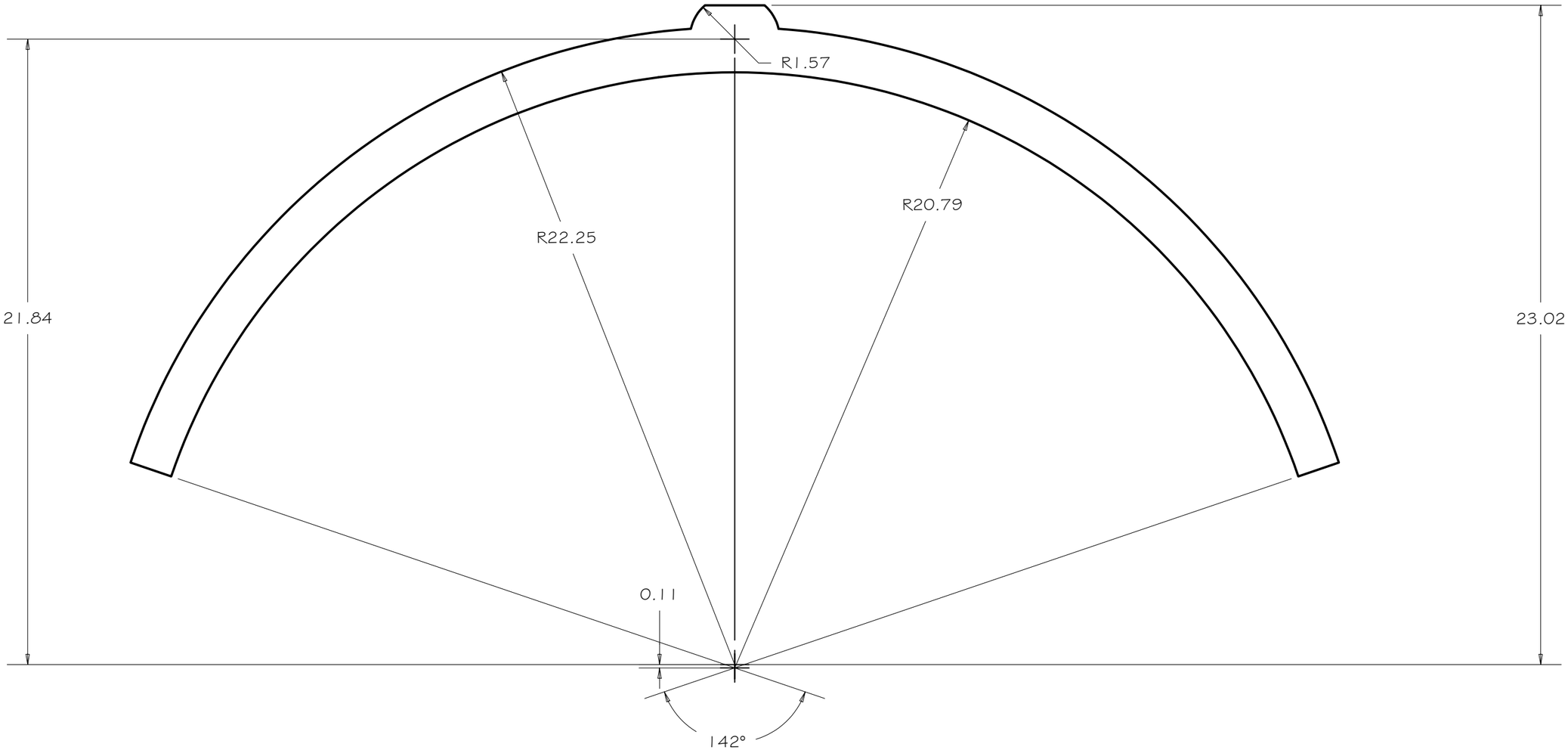
QTY: 1

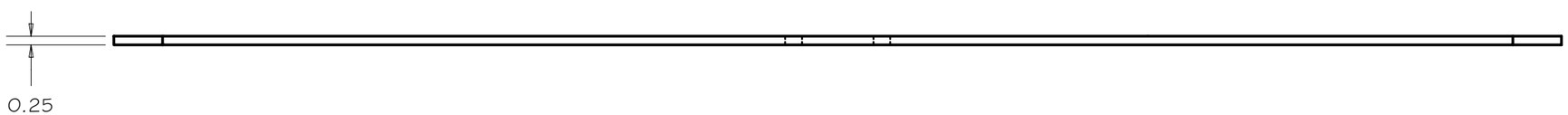
Cassegrain ADC

TITLE: FLANGE, THIN, FWD

PROJECT CODE:
NEXT ASS'Y: A2020
DWG NO: A2027
REV: A
1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 2/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

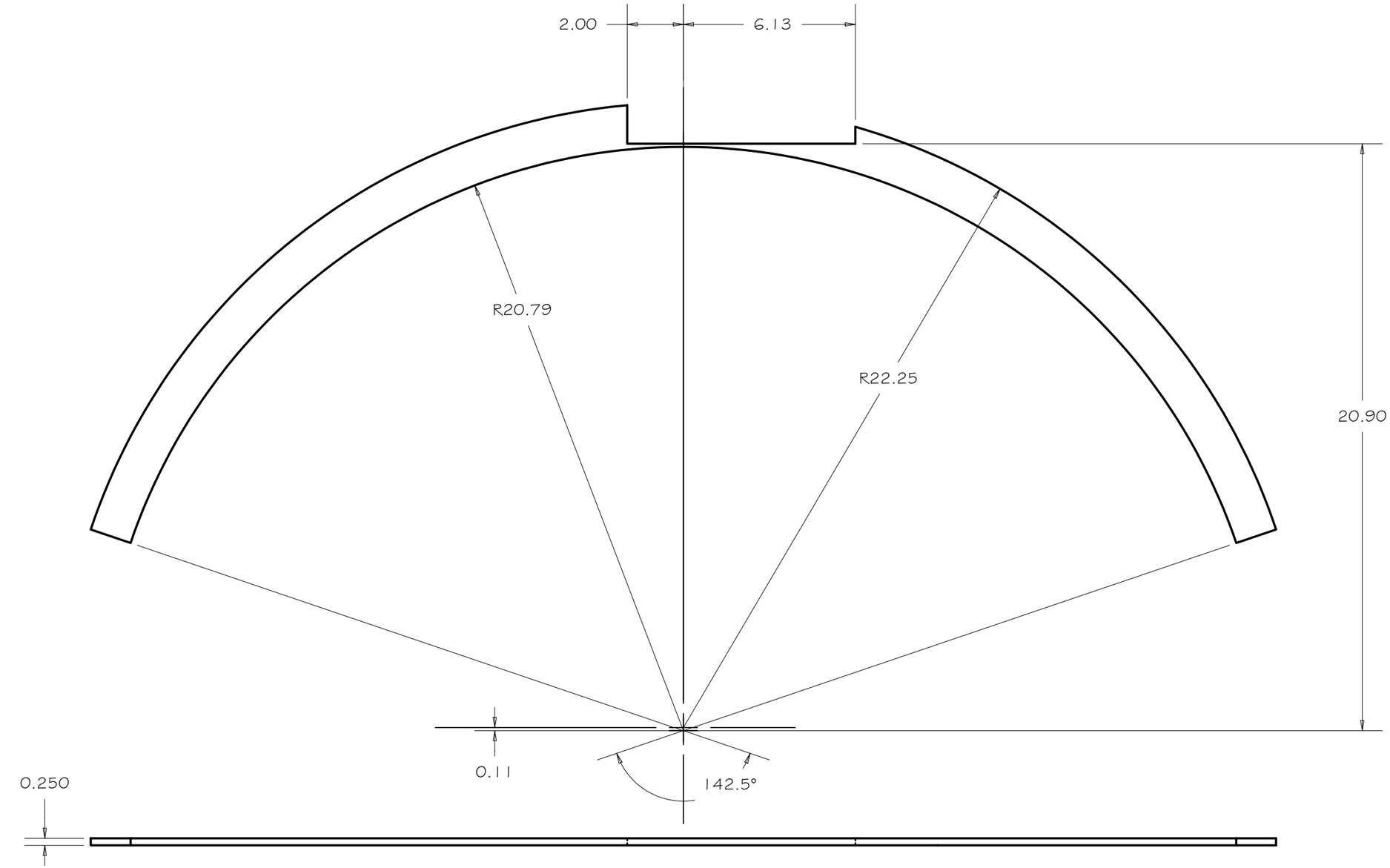
QTY: 1

Cassegrain ADC

TITLE: FLANGE, DRIVE, FWD

PROJECT CODE:
NEXT ASS'Y: A2020
DWG NO: A2026
REV: A
SHEET 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL	

LICK OBSERVATORY

DRAWN	vernon	2/19/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

QTY: 1

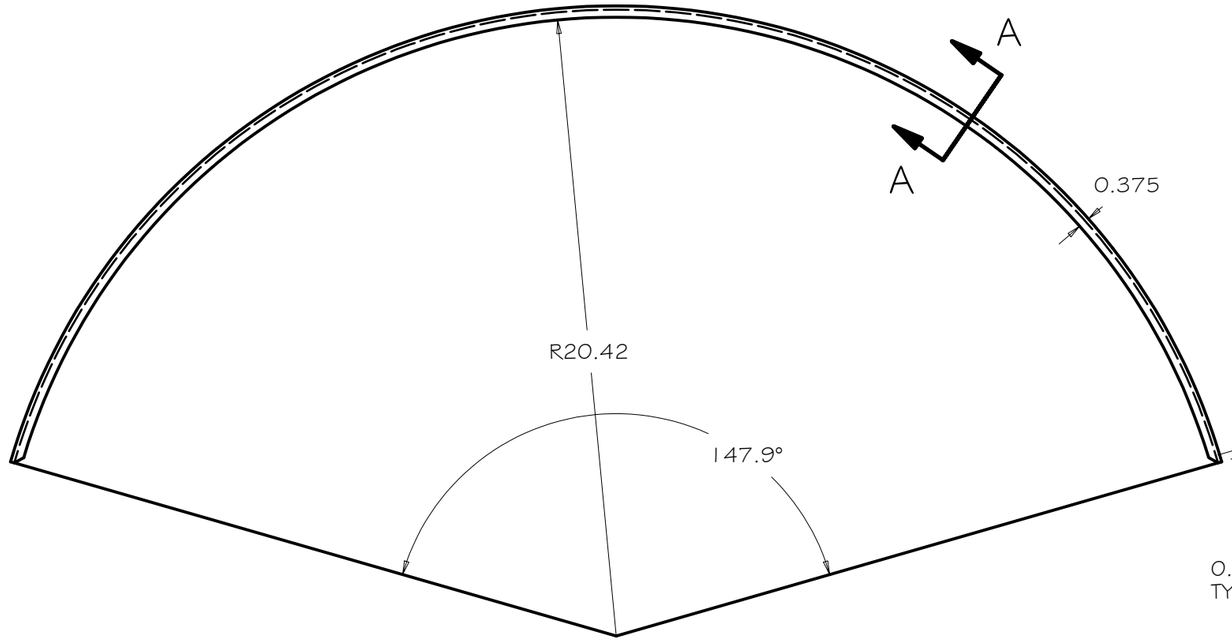
Cassegrain ADC

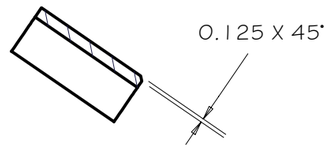
TITLE: FLANGE, FWD

PROJECT CODE	DWG NO	REV
NEXT ASS'Y: A2020	A2025	A

1 / 1

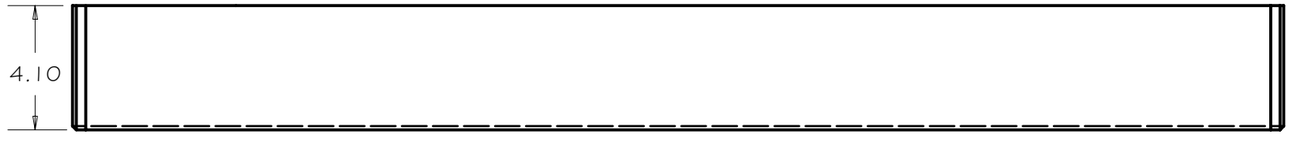
REV	DRWN	CHK'D	DATE	DESCRIPTION





0.250 X 45°
TYP BOTH ENDS

SECTION A-A
SCALE 1 / 5



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL	

LICK OBSERVATORY

DRAWN	vernon	9/9/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

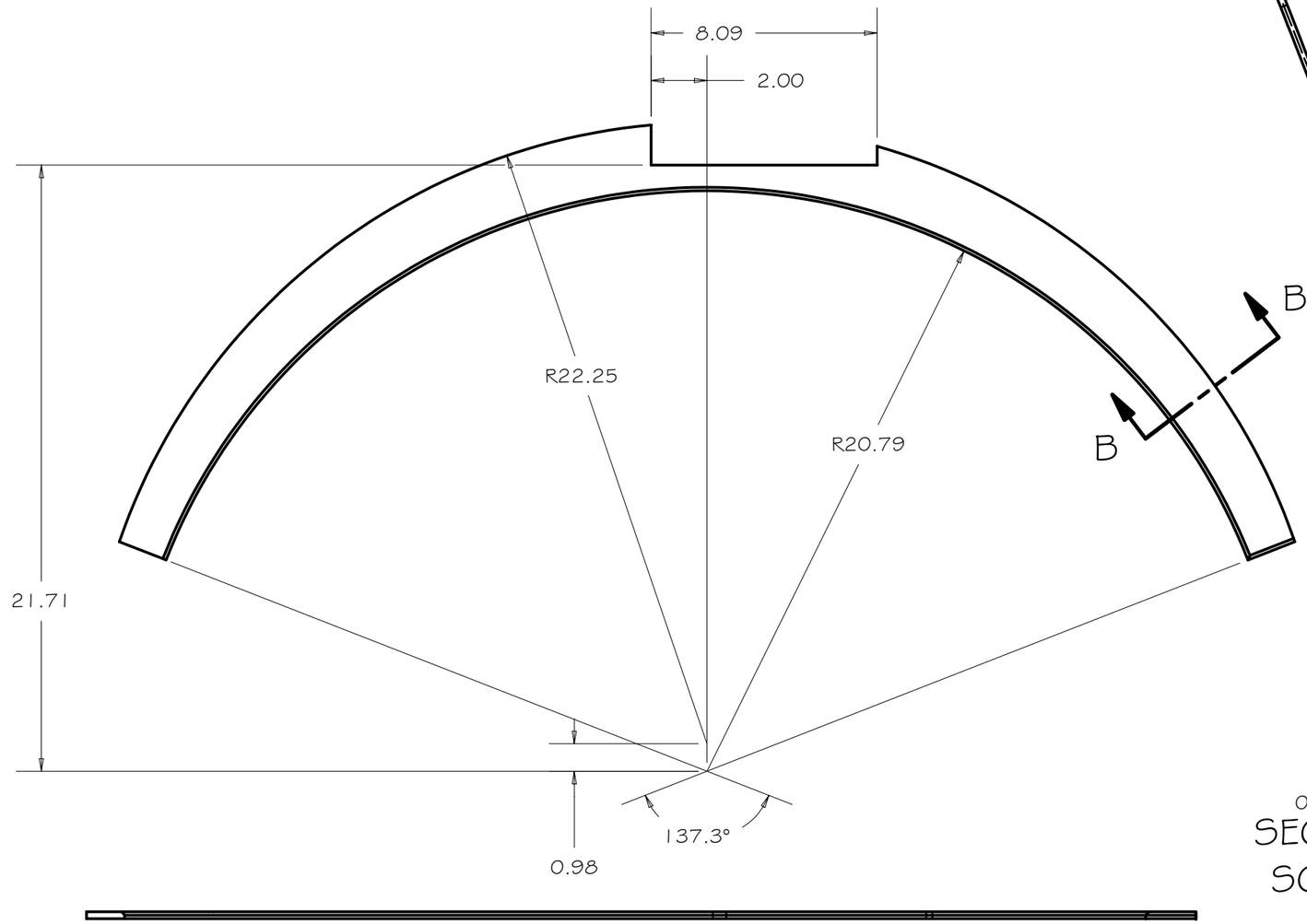
QTY: 1

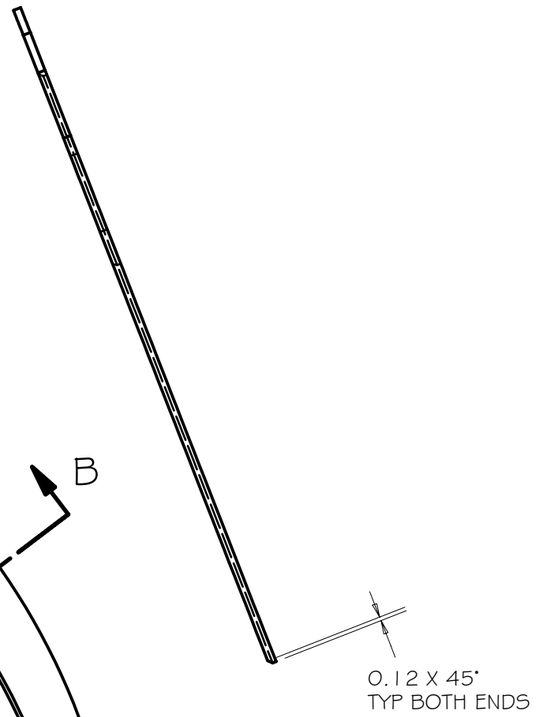
Cassegrain ADC

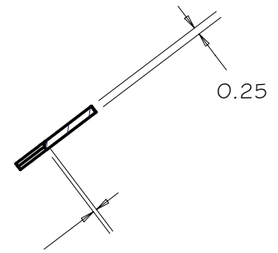
TITLE: UPPER CYLINDER, AFT

PROJECT CODE	DWG NO	REV
NEXT ASS'Y: A2030	A2034	A
		1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







SECTION B-B
SCALE 1 / 5

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

QTY: 1

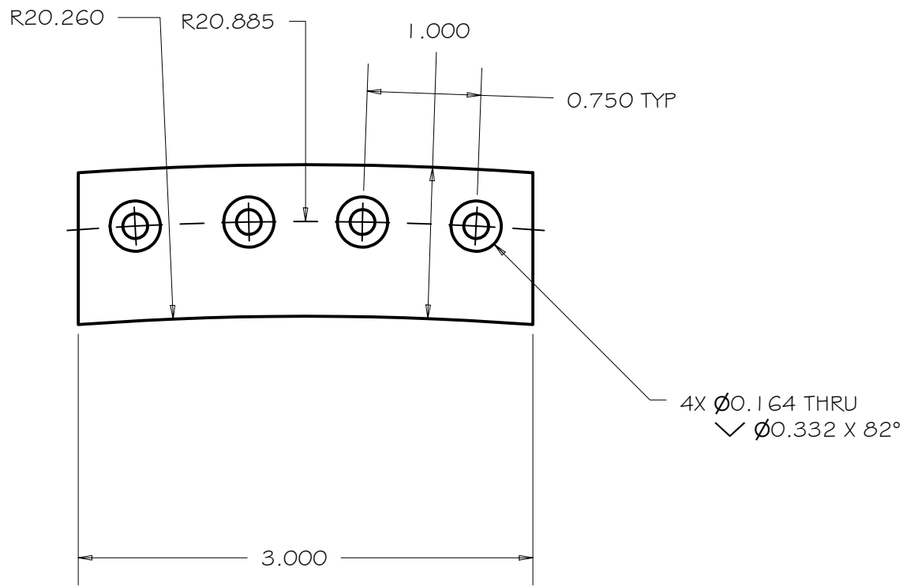
DRAWN	vernon	9/9/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

TITLE: FLANGE LOWER, AFT

PROJECT CODE:
NEXT ASS'Y: A2030
DWG NO: A2035
REV: A
SHEET 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 2/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

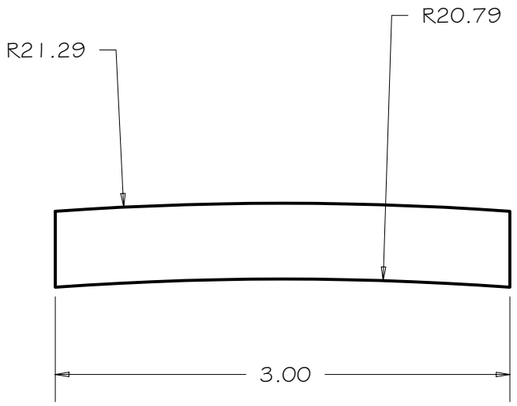
QTY: 3

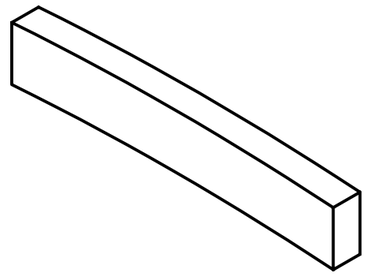
Cassegrain ADC

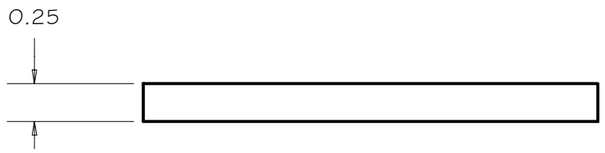
TITLE: RETAINER, OPTIC, FWD

PROJECT CODE:
NEXT ASS'Y: A2001
DWG NO: A2044
REV: A
1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION







TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 2/23/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

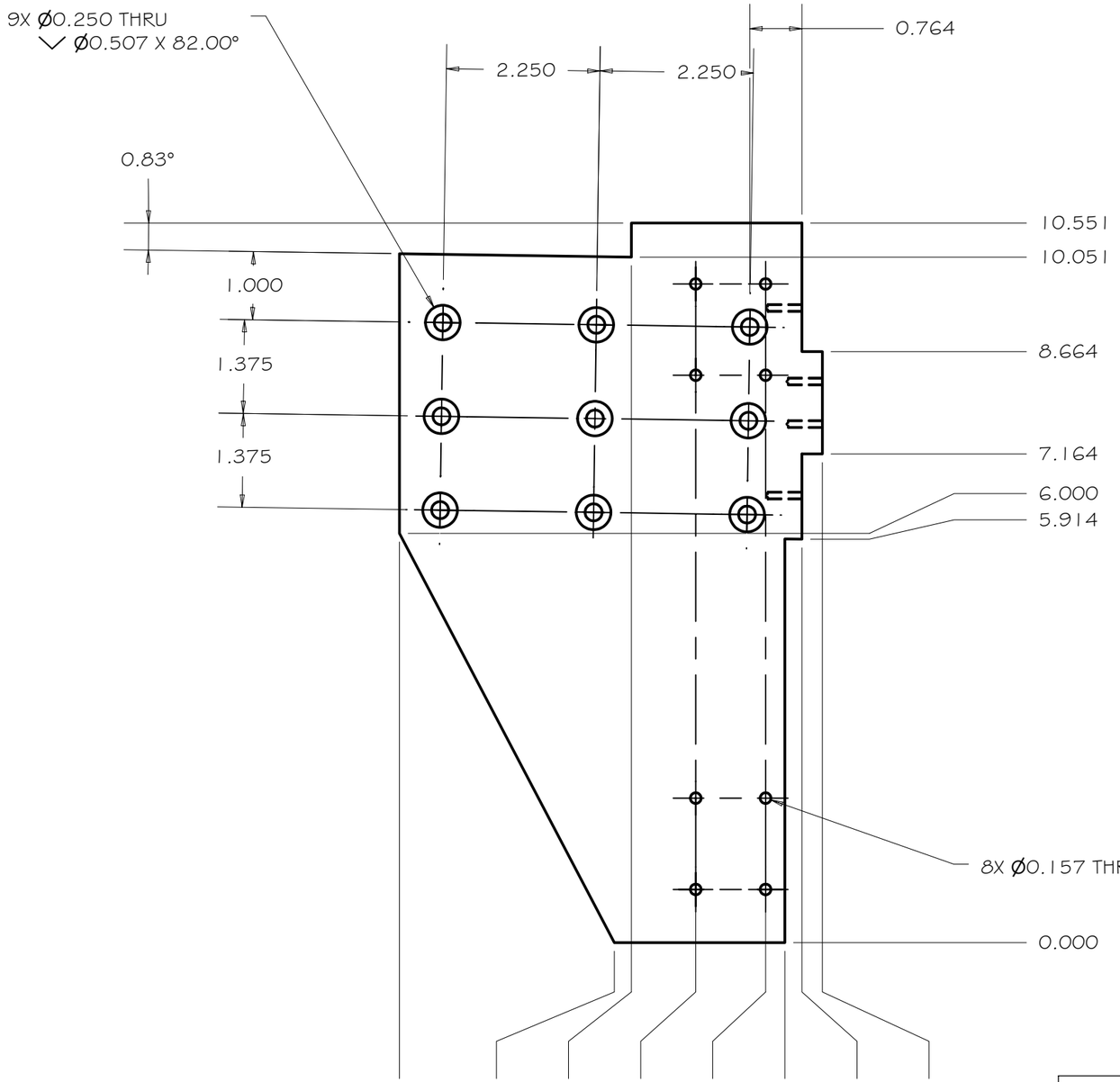
QTY: 2

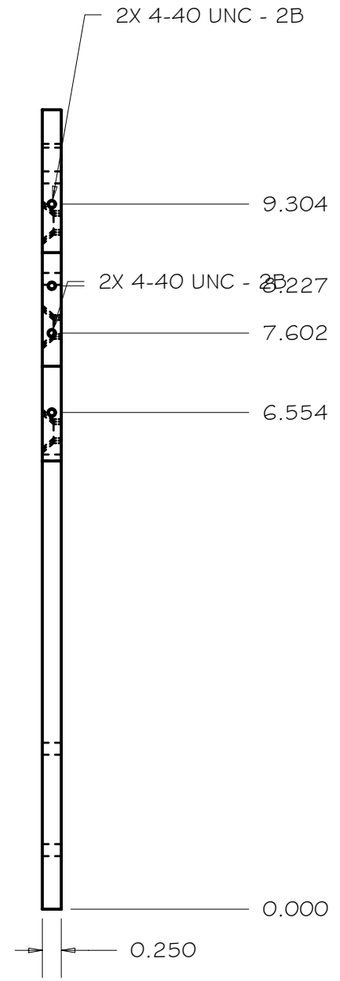
Cassegrain ADC

TITLE: AXIAL CLAMP BRACKET, AFT

PROJECT CODE:
NEXT ASS'Y: A2030
DWG NO: A2043
REV: A

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

QTY: 2

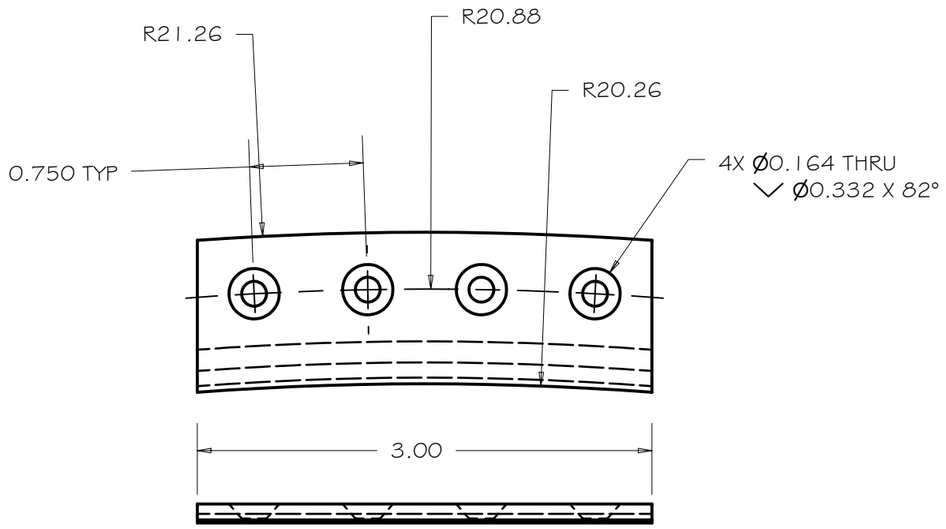
DRAWN	vernon	2/20/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

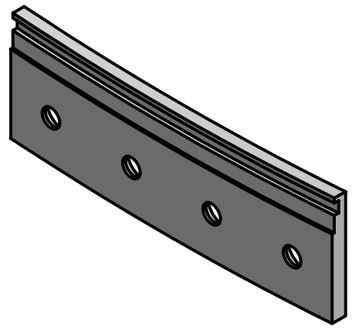
Cassegrain ADC

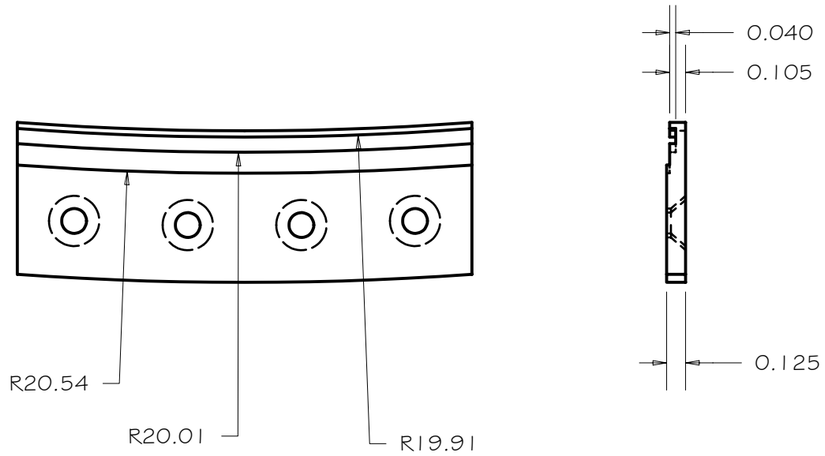
TITLE: SLIDE MOUNT

PROJECT CODE:
NEXT ASS'Y: A2001, A2002
DWG NO: A2042
REV: A
SHT 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL	

LICK OBSERVATORY

DRAWN	vernon	2/23/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

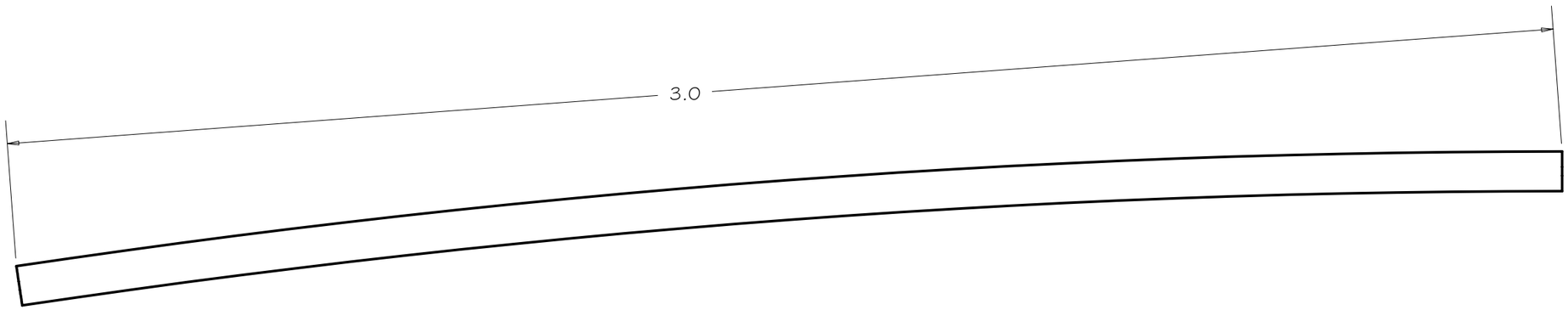
QTY: 3

Cassegrain ADC

TITLE: RETAINER, OPTIC, AFT

PROJECT CODE	DWG NO	REV
NEXT ASS'Y: A2002	A2041	A

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 4 : 1

NOTE:
O-RING SECTION
1/16 cross section (actual .070) shown compressed to .060 height
FORMED TO AXIAL CLAMP SLOT

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN: vernon | 2/19/2004
CHECKED:
DESIGNED: vernon
ENGINEER:

QTY: 6

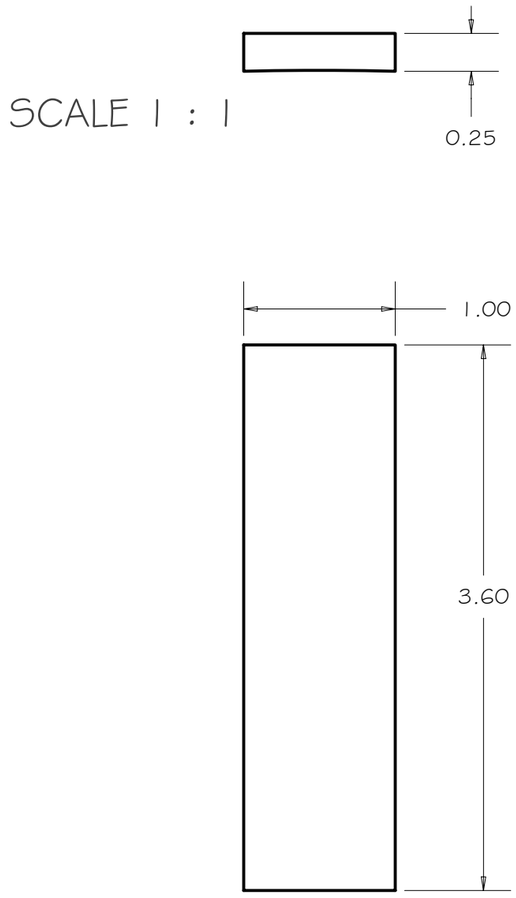
Cassegrain ADC

TITLE: O-RING SECTION

PROJECT CODE | DWG NO: A2040 | REV: A | 1/1

NEXT ASS'Y: A2001, A2002

REV	DRWN	CHK'D	DATE	DESCRIPTION



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL	

LICK OBSERVATORY

DRAWN	vernon	9/9/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

QTY: 1

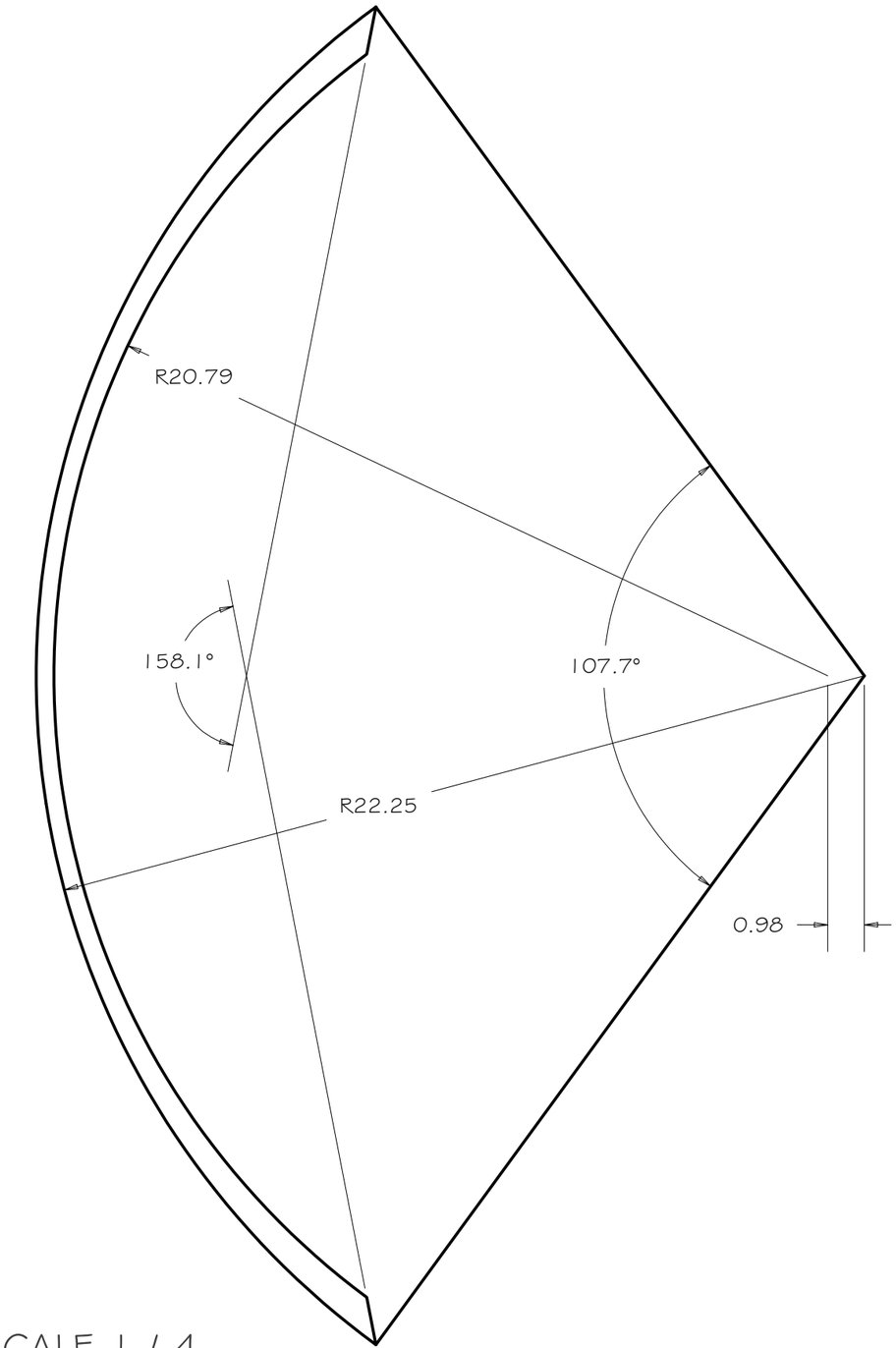
Cassegrain ADC

TITLE: STIFFENER, AFT

PROJECT CODE	DWG NO	REV
NEXT ASS'Y: A2030	A2039	A

1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 1 / 4

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

QTY: 1

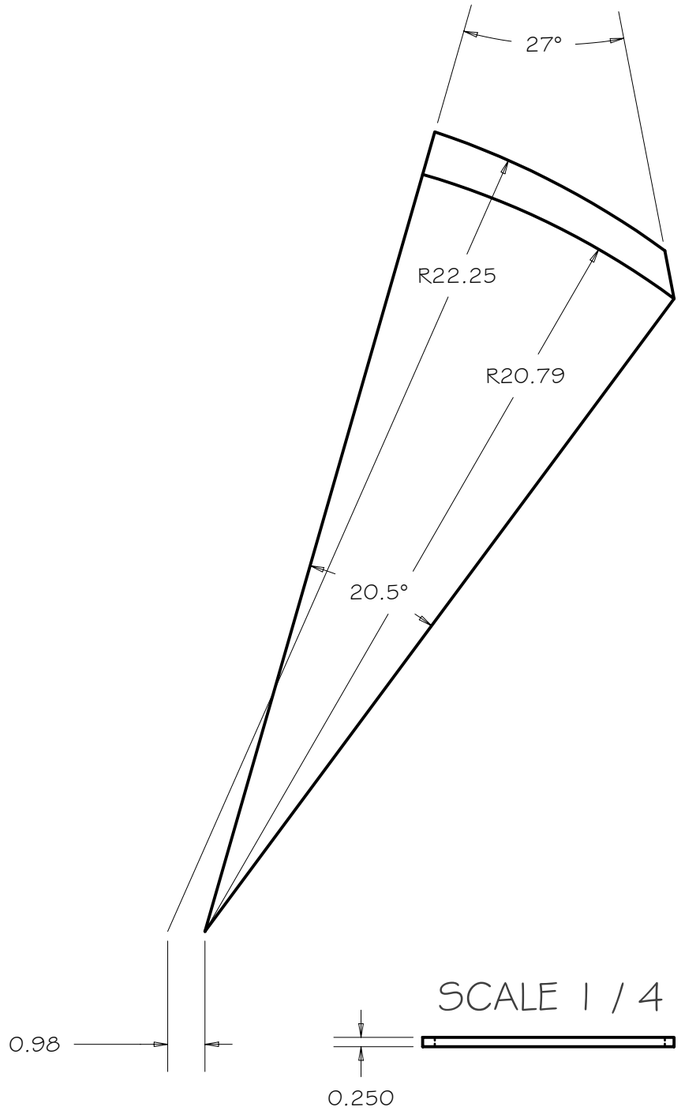
DRAWN	vernon	9/9/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

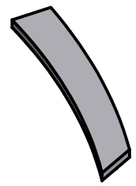
TITLE: FLANGE THIN, AFT

PROJECT CODE: A2030
DWG NO: A2038
REV: A
SHEET 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 1 / 4



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 9/9/2003
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

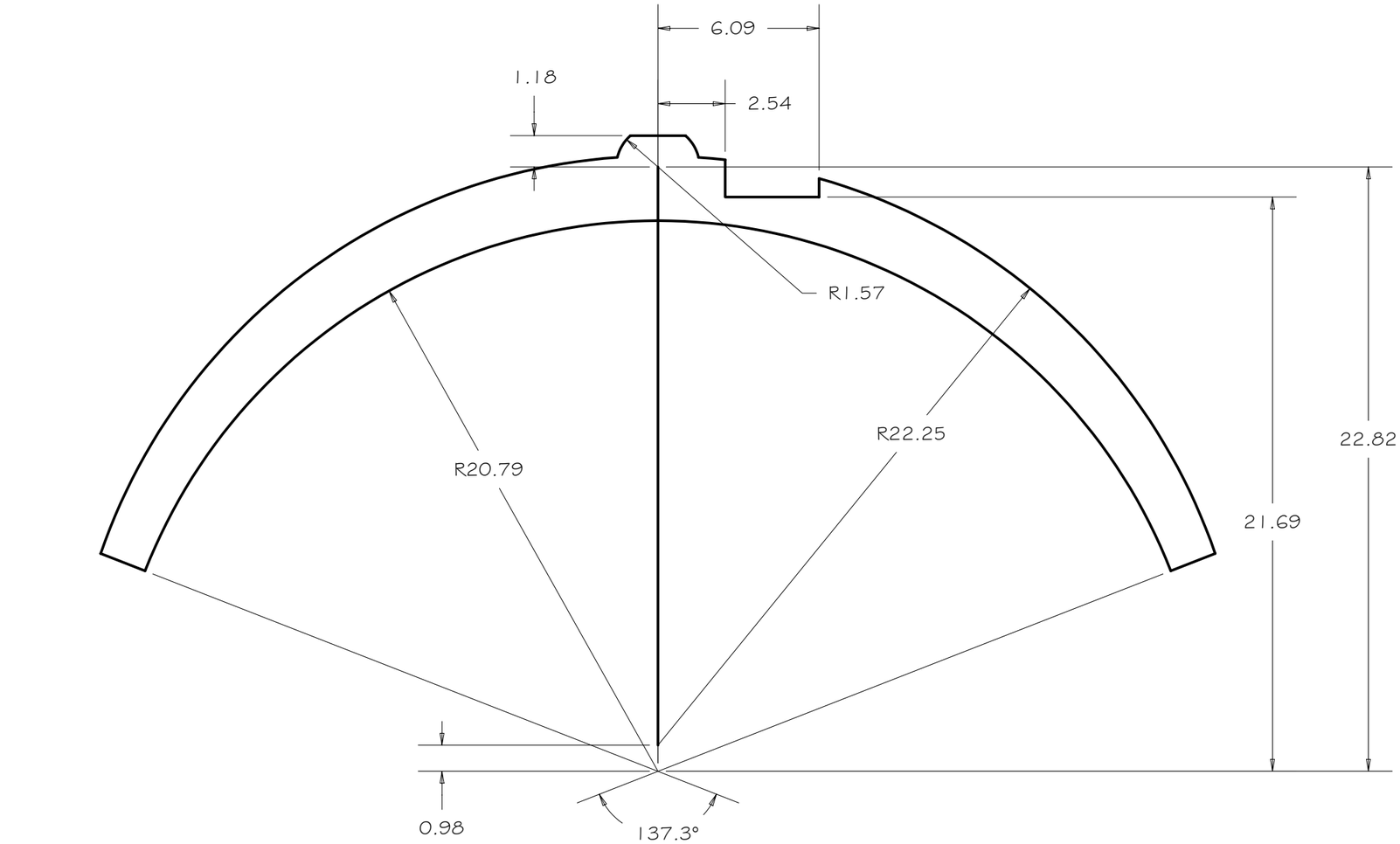
QTY: 2

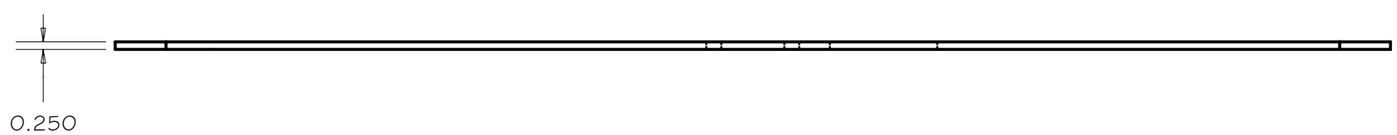
Cassegrain ADC

TITLE: FLANGE SHORT, AFT

PROJECT CODE:
NEXT ASS'Y: A2030
DWG NO: A2037
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 9/9/2003
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

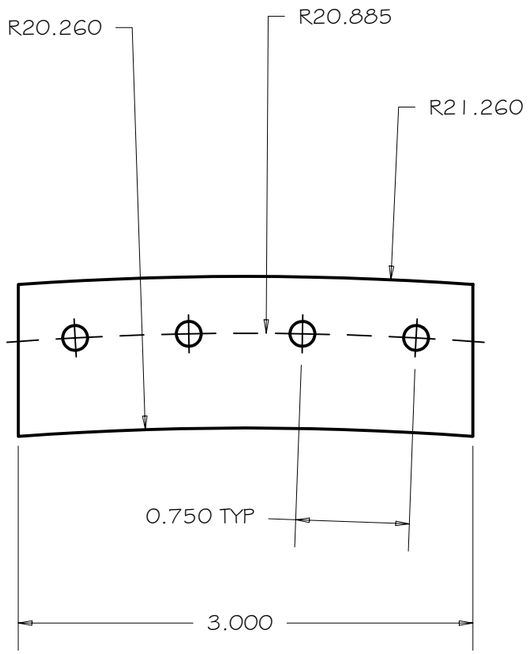
QTY: 1

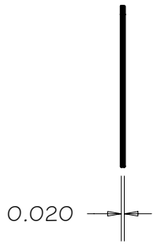
Cassegrain ADC

TITLE: FLANGE, DRIVE, AFT

PROJECT CODE:
NEXT ASS'Y: A2030
DWG NO: A2036
REV: A

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
DELRIN, BLACK	

LICK OBSERVATORY

QTY: 3

DRAWN	vernon	2/20/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

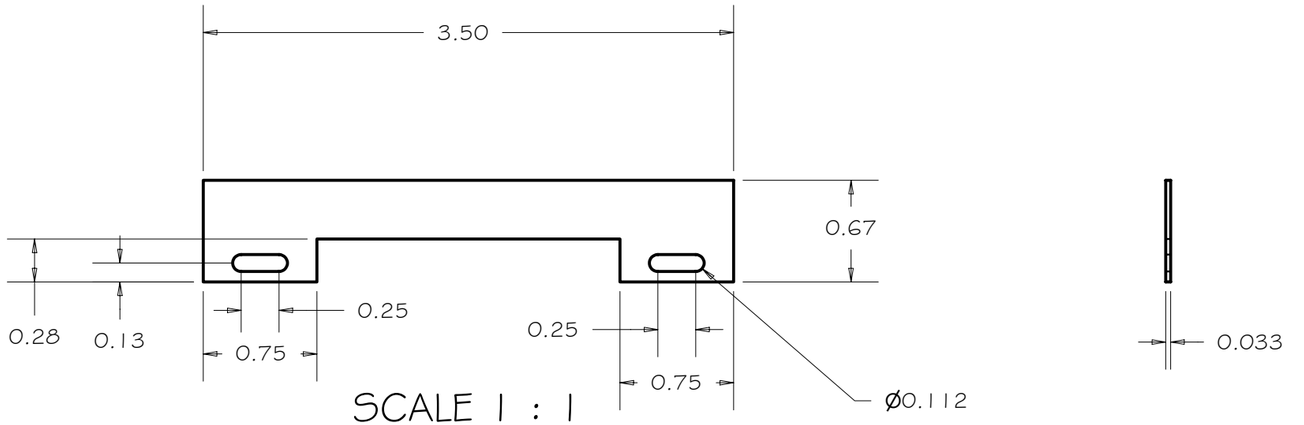
Cassegrain ADC

TITLE: AXIAL SPACER, FWD

PROJECT CODE	DWG NO	REV
NEXT ASS'Y: A2001	A2045	A

1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 1 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/25/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

QTY: 2

Cassegrain ADC

TITLE: FIDUCAL TAB, LONG

PROJECT CODE:
DWG NO: A2046
REV: A
NEXT ASS'Y: A2001, A2002
1/1

ADC Bill of Material 3/30/2004

			Qty	Rev	Used on
1	A0003	ADC, TRANSFER MODULE, JACK STAND	1	A	top
2	A0001	ADC ASSSEMBLY	1	A	top
3	A1000	BASE / DRIVE ASSSEMBLY	1	A	A0001
4	A1100	FRAME ASSEMBLY	1	A	A1000
5	A1110	SUPPORT WELDMENT, LEFT	1	A	A1100
6	A1111	SUPPORT TUBE, LEFT	1	A	A1110
7	A1112	GUSSETT, UPPER	1	A	A1110
8	A1113	GUSSETT, LOWER	1	A	A1110
9	A1114	PICKUP TUBE	1	A	A1110
10	A1115	ROLLER MOUNT	1	A	A1110
11	A1116	RAIL BASE	1	A	A1110
12	A1117	CLADDING STRIP 1	1	A	A1110
13	A1118	CLADDING STRIP 2	1	A	A1110
14	A1119	CLADDING STRIP 3	1	A	A1110
15	A1120	CLADDING STRIP 4	1	A	A1110
16	A1121	CLADDING STRIP 5	1	A	A1110
17	A1122	PICKUP HOLE	1	A	A1110
18	A1123	TUBE END CAP	2	A	A1110
19	A1130	SUPPORT WELDMENT, RIGHT	1	A	A1100
20	A1112	GUSSETT, UPPER	1	A	A1130
21	A1113	GUSSETT, LOWER	1	A	A1130
22	A1114	PICKUP TUBE	1	A	A1130
23	A1115	ROLLER MOUNT	2	A	A1130
24	A1116	RAIL BASE	1	A	A1130
25	A1117	CLADDING STRIP 1	1	A	A1130
26	A1118	CLADDING STRIP 2	1	A	A1130
27	A1119	CLADDING STRIP 3	1	A	A1130
28	A1120	CLADDING STRIP 4	1	A	A1130
29	A1121	CLADDING STRIP 5	1	A	A1130
30	A1122	PICKUP HOLE	1	A	A1130
31	A1123	TUBE END CAP	2	A	A1130
32	A1131	SUPPORT TUBE, RIGHT	1	A	A1130
33	A1150	FRAME WELDMENT, LOWER	1	A	A1100
34	A1151	BASE TUBE 1	2	A	A1150
35	A1152	BASE TUBE 2	2	A	A1150
36	A1153	BASE TUBE 3	1	A	A1150
37	A1154	BASE TUBE 4	2	A	A1150
38	A1155	HARDPOINT MOUNT SUPPORT	1	A	A1150
39	A1156	HARDPOINT MOUNT PAD	1	A	A1150
40	A1160	FRAME WELDMENT, UPPER	1	A	A1100
41	A1161	BASE TUBE 5	2	A	A1160
42	A1162	BASE TUBE 6	2	A	A1160
43	A1163	BASE TUBE 7	2	A	A1160
44	A1164	BASE TUBE 8	1	A	A1160
45	A1165	HARDPOINT MOUNT SUPPORT	2	A	A1160
46	A1156	HARDPOINT MOUNT PAD	2	A	A1160
47	A1170	RAIL SPACER	2	A	A1100
48	A1171	GUSSETT, FRAME	2	A	A1100

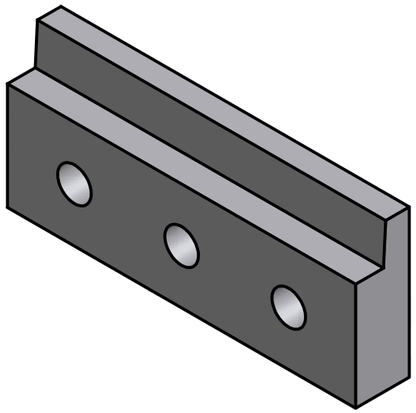
49		A1172	RING, FWD	1	A	A1100
50		A1173	RING, AFT	1	A	A1100
51		A1528	BALL SCREW SHIELD, FWD	1	A	A1100
52		A1529	BALL SCREW SHIELD, AFT	1	A	A1100
53		A1530	FRAME STIFFENER	2	A	A1100
54		A1531	STIFFENER TUBE	1	A	A1530
55		A1532	STIFFENER END	1	A	A1530
56		A1533	STIFFENER END	1	A	A1530
57		A1534	STIFFENER BAR	1	A	A1100
58		THK SHS 20 RAIL		4	A	A1100
59	A1200	BALL SCREW ASSEMBLY		1	A	A1000
60		A1210	THK 2505-5 SCREW, FWD	1	A	A1200
61		A1211	THK 2505-5 SCREW, AFT	1	A	A1200
62		A1212	BEARING HOUSING	1	A	A1200
63		A1213	BEARING CAP	2	A	A1200
64		A1214	BEARING HOUSING, AFT	1	A	A1200
65		A1216	SPACER	1	A	A1200
66		A1217	SPACER	1	A	A1200
67		A1218	SLEEVE	2	A	A1200
68		A1219	PIC PULLEY, BALL SCREW	1	A	A1200
69		SKF 6203		6	A	A1200
70		SKF N-03		2	A	A1200
71		SKF W-03		2	A	A1200
72		WAVE SPRING		4	A	A1200
73	A1215	BALL SCREW CAP, AFT		1	A	A1000
74	A1220	BALL SCREW CAP, FWD		1	A	A1000
75	A1300	MOTOR / GEARBOX ASSEMBLY		1	A	A1000
76		A1310	PULLEY HOUSING	1	A	A1300
77		A1311	HOUSING COVER	1	A	A1300
78		A1312	SHAFT, MOTOR PULLEY	1	A	A1300
79		A1313	PIC PULLEY, MOTOR	1	A	A1300
80		A1314	BEARING RETAINER	1	A	A1300
81		GEARBOX		1	A	A1300
82		MOTOR		1	A	A1300
83		SKF 16005		2	A	A1300
84	A1513	CLADDING FRAME, FWD UPPER		1	A	A1000
85		A1511	CLADDING PLATE, FWD UPPER	1	A	A1513
86		A1512	CLADDING RING, FWD UPPER	1	A	A1513
87	A1516	CLADDING FRAME, FWD LOWER		1	A	A1000
88		A1514	CLADDING PLATE, FWD LOWER	1	A	A1516
89		A1515	CLADDING RING, FWD LOWER	1	A	A1516
90	A1519	CLADDING FRAME, AFT UPPER		1	A	A1000
91		A1517	CLADDING PLATE, AFT UPPER	1	A	A1519
92		A1518	CLADDING RING, AFT UPPER	1	A	A1519
93	A1523	CLADDING FRAME, AFT UPPER		1	A	A1000
94	A1526	CLADDING FRAME, FWD LOWER		1	A	A1000
95	A1527	CLADDING, MOTOR		1	A	A1000
96	A1535	CLADDING FRAME, HARDPOINT		1	A	A1000
97	A1536	CLADDING FRAME, HARDPOINT		1	A	A1000
98	ENCODER AGILENT HEDL-5540#E06			1	A	A1000
99	BELT	PIC BELT EPS00070G 15mN		1	A	A1000
100	A1501	FRONT CLADDING UPPER		1	A	A0001

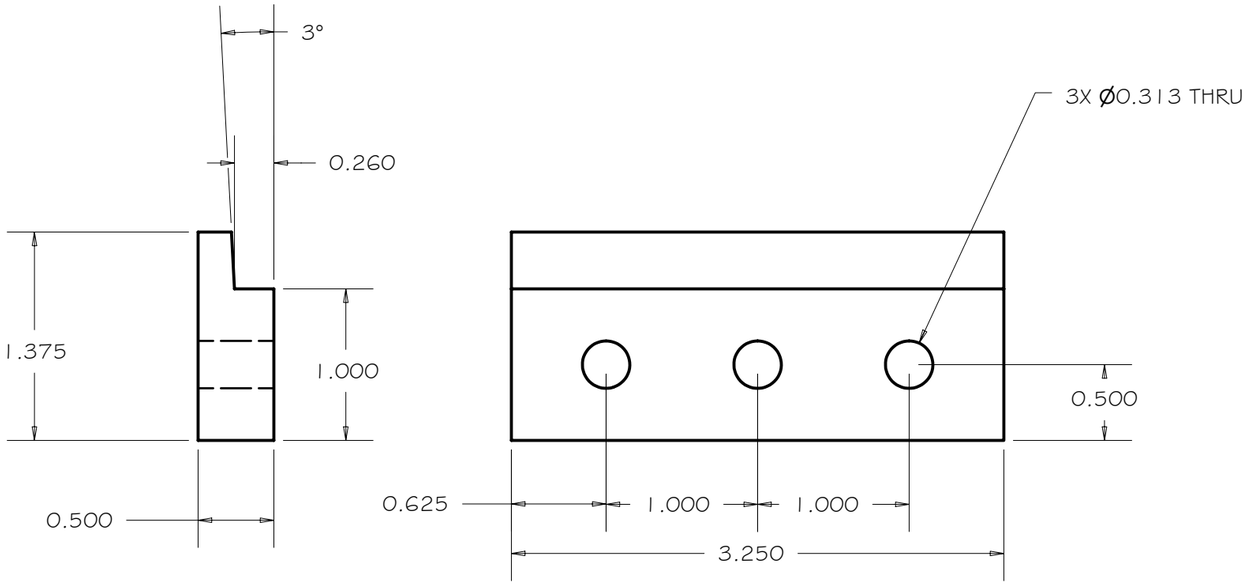
101	A1502	AFT CLADDING UPPER	1	A	A0001
102	A1503	FWD CLADDING LOWER	1	A	A0001
103	A1504	AFT CLADDING LOWER	1	A	A0001
104	A1505	AFT CLADDING LOWER	1	A	A0001
105	A1506	FWD CLADDING LOWER	1	A	A0001
106	A1507	FWD CLADDING UPPER	1	A	A0001
107	A1508	AFT CLADDING UPPER	1	A	A0001
108	A1510	COVER ASSEMPLY, FWD	2	A	A0001
109	A1537	COVER, PLATE	1	A	A1510
110	A1538	COVER STIFFENER, LONG	1	A	A1510
111	A1539	COVER STIFFENER, SHORT	2	A	A1510
112	DRAWER PULL		2	A	A1510
113	A2001	CELL ASSEMBLY, FWD	1	A	A0001
114	A2012	OPTIC ASSEMBLY	1	A	A2001
115	A2010	ADC OPTIC	1	B	A2012
116	A2014	INDEX, OPTIC	1	B	A2012
117	A2020	CELL WELDMENT, FWD	1	A	A2001
118	A2015	CYLINDER, OUTER	1	A	A2020
119	A2016	CYLINDER, OUTER	1	A	A2020
120	A2021	STIFFENER	1	A	A2020
121	A2022	SIDE BLOCK, FWD	2	A	A2020
122	A2023	LOWER CYLINDER,FWD	1	A	A2020
123	A2024	UPPER CYLINDER,FWD	1	A	A2020
124	A2025	FLANGE,FWD	1	A	A2020
125	A2026	FLANGE, DRIVE, FWD	1	A	A2020
126	A2027	FLANGE, THIN, FWD	1	A	A2020
127	A2028	FLANGE, THIN, FWD	2	A	A2020
128	A2040	O-RING SECTION	6	A	A2001
129	A2042	SLIDE MOUNT	1	A	A2001
130	A2044	RETAINER, OPTIC, FWD	3	A	A2001
131	A2045	AXIAL SPACER, FWD	3	A	A2001
132	A2046	FIDUCAL TAB, LONG	1	A	A2001
133	A2047	FIDUCAL TAB, SHORT	1	A	A2001
134	A2048	SLIDE MOUNT	1	A	A2001
135	A2053	AXIAL CLAMP	1	A	A2001
136	A2054	AXIAL CLAMP	1	A	A2001
137	A2055	AXIAL CLAMP	1	A	A2001
138	A2064	RADIAL SPACER	1	A	A2001
139	A2065	RADIAL SPACER	1	A	A2001
140	A2066	RADIAL SPACER	1	A	A2001
141	Ball Nut	THK BNF-2505-5	1	A	A2001
142	Ball Slide	THK SHS-20-V Slide	4	A	A2001
143	A2002	CELL ASSEMBLY, AFT	1	A	A0001
144	A2012	ADC OPTIC	1	A	A2002
145	A2010	ADC OPTIC	1	B	A2012
146	A2014	INDEX, OPTIC	1	B	A2012
147	A2030	CELL WELDMENT, AFT	1	A	A2002
148	A2029	CYLINDER, OUTER	1	A	A2030
149	A2031	CYLINDER, OUTER	1	A	A2030
150	A2032	SIDE BLOCK, AFT	2	A	A2030
151	A2033	LOWER CYLINDER, AFT	1	A	A2030
152	A2034	UPPER CYLINDER, AFT	1	A	A2030

153		A2035	FLANGE, LOWER, AFT	1	A	A2030
154		A2036	FLANGE, DRIVE, AFT	1	A	A2030
155		A2037	FLANGE, SHORT	2	A	A2030
156		A2038	FLANGE, THIN	1	A	A2030
157		A2039	STIFFENER, AFT	1	A	A2030
158		A2043	AXIAL CLAMP BRACKET, AFT	2	A	A2030
159	A2040		O-RING SECTION	3	A	A2030
160	A2041		RETINAER, OPTIC, AFT	3	A	A2002
161	A2042		SLIDE MOUNT	1	A	A2002
162	A2046		FIDUCAL TAB, LONG	1	A	A2002
163	A2047		FIDUCAL TAB, SHORT	1	A	A2002
164	A2048		SLIDE MOUNT	1	A	A2002
165	A2050		AXIAL CLAMP	1	A	A2002
166	A2051		AXIAL CLAMP	1	A	A2002
167	A2052		AXIAL CLAMP	1	A	A2002
168	A2060		AXIAL SPACER	3	A	A2002
169	A2061		RADIAL SPACER	1	A	A2002
170	A2062		RADIAL SPACER	1	A	A2002
171	A2063		RADIAL SPACER	1	A	A2002
172	Ball Nut		THK BNF-2505-5	1	A	A2002
173	Ball Slide		THK SHS-20-V Slide	4	A	A2002
174	A3015		FIDUCAL ASSEMBLY, DOUBLE	1	A	A0001
175	A3010		CHERRY VN1015 MODIFIED	2	A	A3015
176	A3011		FIDUCAL PC BOARD	2	A	A3015
177	A3012		2 FIDUCAL MOUNT	1	A	A3015
178	A3016		FIDUCAL ASSEMBLY, SINGLE	1	A	A0001
179	A3010		CHERRY VN1015 MODIFIED	1	A	A3016
180	A3011		FIDUCAL PC BOARD	1	A	A3016
181	A3013		1 FIDUCAL MOUNT	1	A	A3016
182	A3017		FIDUCAL ASSEMBLY, TRIPLE	1	A	A0001
183	A3010		CHERRY VN1015 MODIFIED	3	A	A3017
184	A3011		FIDUCAL PC BOARD	3	A	A3017
185	A3014		3 FIDUCAL MOUNT	1	A	A3017
186	A3019		FIDUCAL ASSEMBLY, WIDE DOUBLE	1	A	A0001
187	A3010		CHERRY VN1015 MODIFIED	2	A	A3019
188	A3011		FIDUCAL PC BOARD	2	A	A3019
189	A3018		2 WIDE FIDUCAL MOUNT	1	A	A3019
190	A4001		HARDPOINT INSTRUMENT SIDE	3	A	A0001
191	A5001		JACK STAND	1	A	A0003
192	A5010		BASE WELDMENT	1	A	A5001
193		A5011	BEAM, CROSS	1	A	A5010
194		A5012	BEAM, UPRIGHT	2	A	A5010
195		A5013	BEAM, DIAGONAL	1	A	A5010
196		A5014	FLANGE	3	A	A5010
197	A5020		PIVOT WELDMENT	1	A	A5001
198		A5021	BEAM, CROSS	1	A	A5020
199		A5022	BEAM, UPRIGHT	2	A	A5020
200		A5023	FORK	2	A	A5020
201	A5030		ACME SCREW ASSEMBLY	1	A	A5001
202		A5031	ACME SCREW	1	A	A5030
203		A5032	ACME HANDLE	1	A	A5030
204		SKF GX 20 F	SPHERICAL THRUST BEARING	1	A	A5030

205	A5041	BUMPER	2	A	A5001
206	A5043	PIVOT MOUNT	2	A	A5001
207	A5044	PIVOT CLAMP	2	A	A5001
208	A5045	ACME PIVOT	1	A	A5001
209	A5046	BEARING MOUNT	1	A	A5001
210	A5047	HINGE	2	A	A5001
211	DOWEL PIN		2	A	A5001
212	SHOULDER BOLT		2	A	A5001

REV	DRWN	CHK'D	DATE	DESCRIPTION





SCALE 1 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/29/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

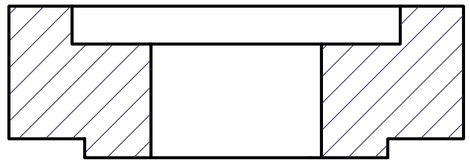
QTY: 2

Cassegrain ADC

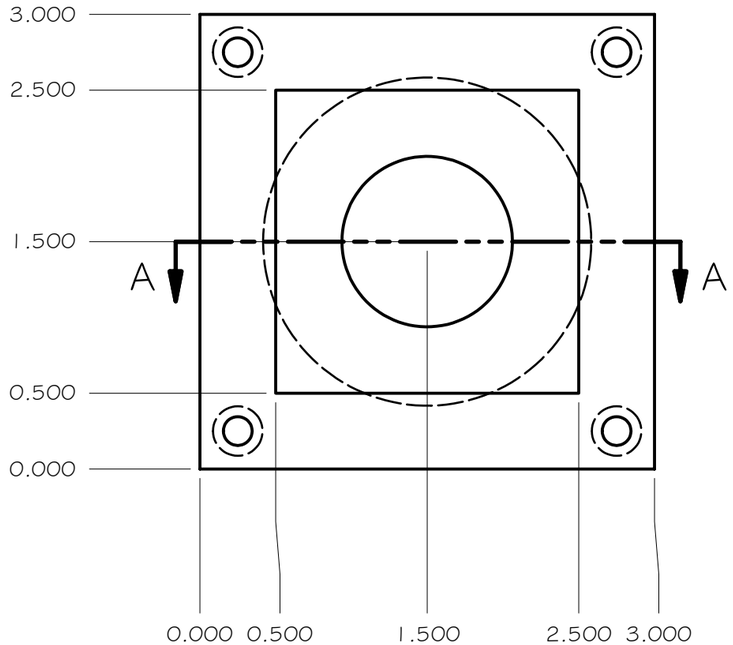
TITLE: HINGE

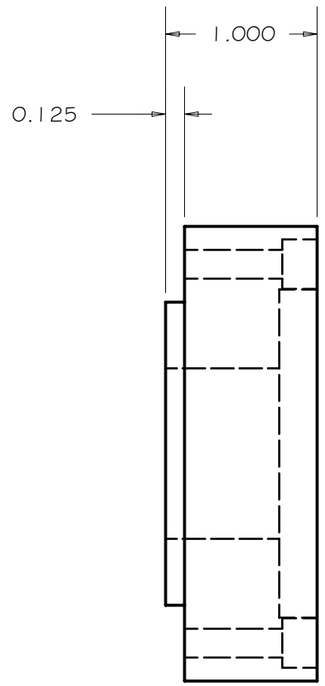
PROJECT CODE:
NEXT ASS'Y: A5001
DWG NO: A5047
REV: A
1/1

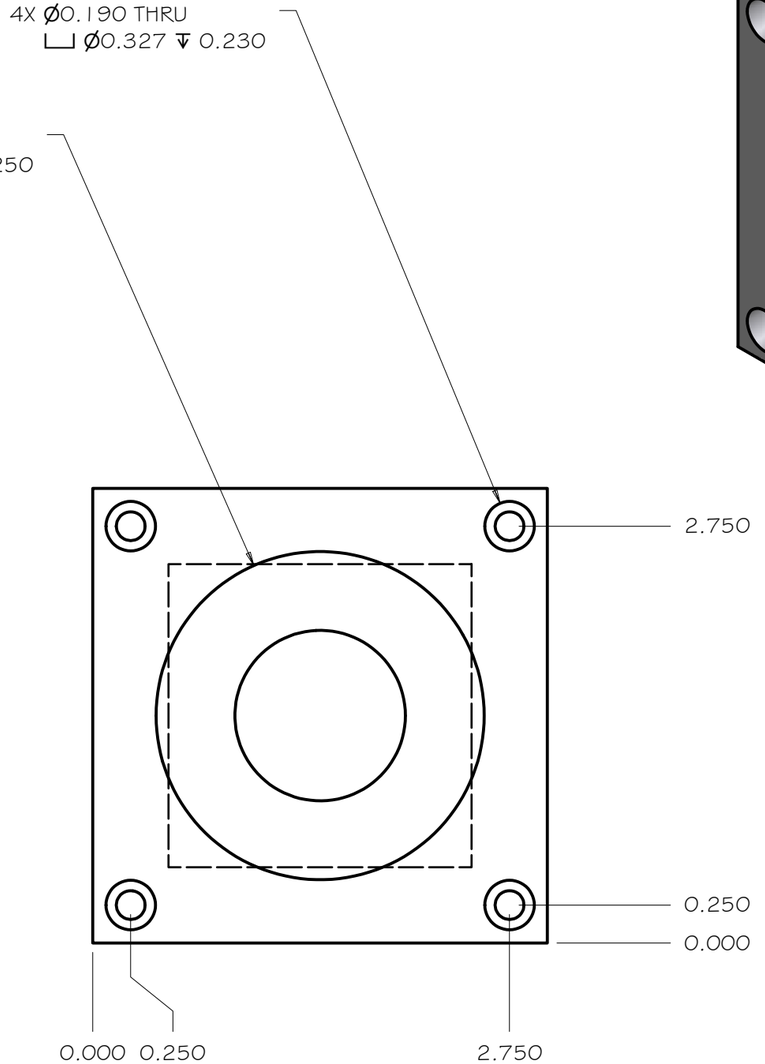
REV	DRWN	CHK'D	DATE	DESCRIPTION

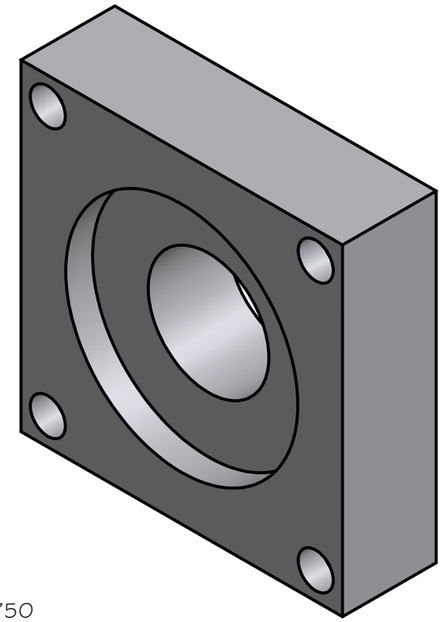


SECTION A-A
SCALE 1 : 1



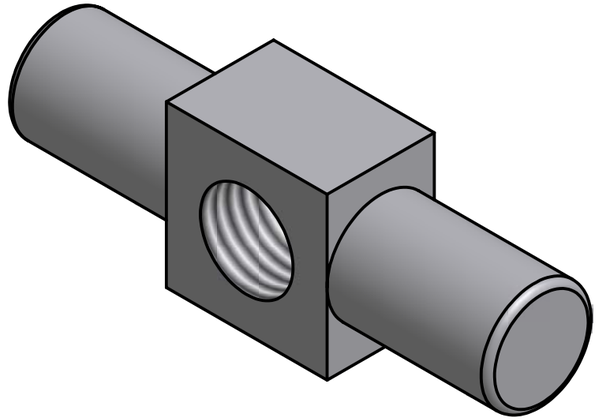


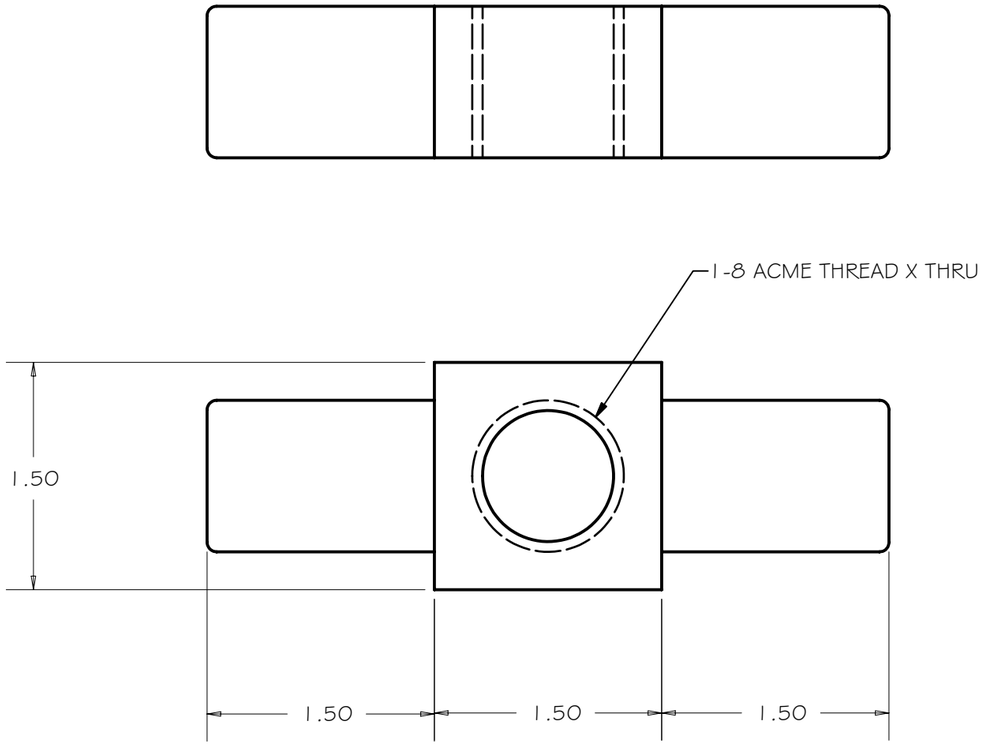


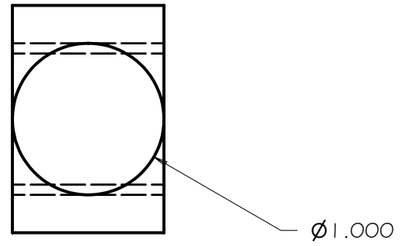


TOLERANCES UNLESS OTHERWISE NOTED: FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16" DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001" ANGLES: ±0.5° FINISH: 125 MICRO INCHES BREAK ALL SHARP EDGES & CORNERS 1/64" MAX		DRAWN vernon 3/29/2004 CHECKED DESIGNED vernon ENGINEER vernon	Cassegrain ADC TITLE: BEARING MOUNT
MATERIAL: STEEL	FINISH	QTY: 1	PROJECT CODE NEXT ASS'Y: A5001
LICK OBSERVATORY			DWG NO: A5046 REV: A SHT 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

QTY: 1

DRAWN	vernon	3/29/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

TITLE: ACME PIVOT

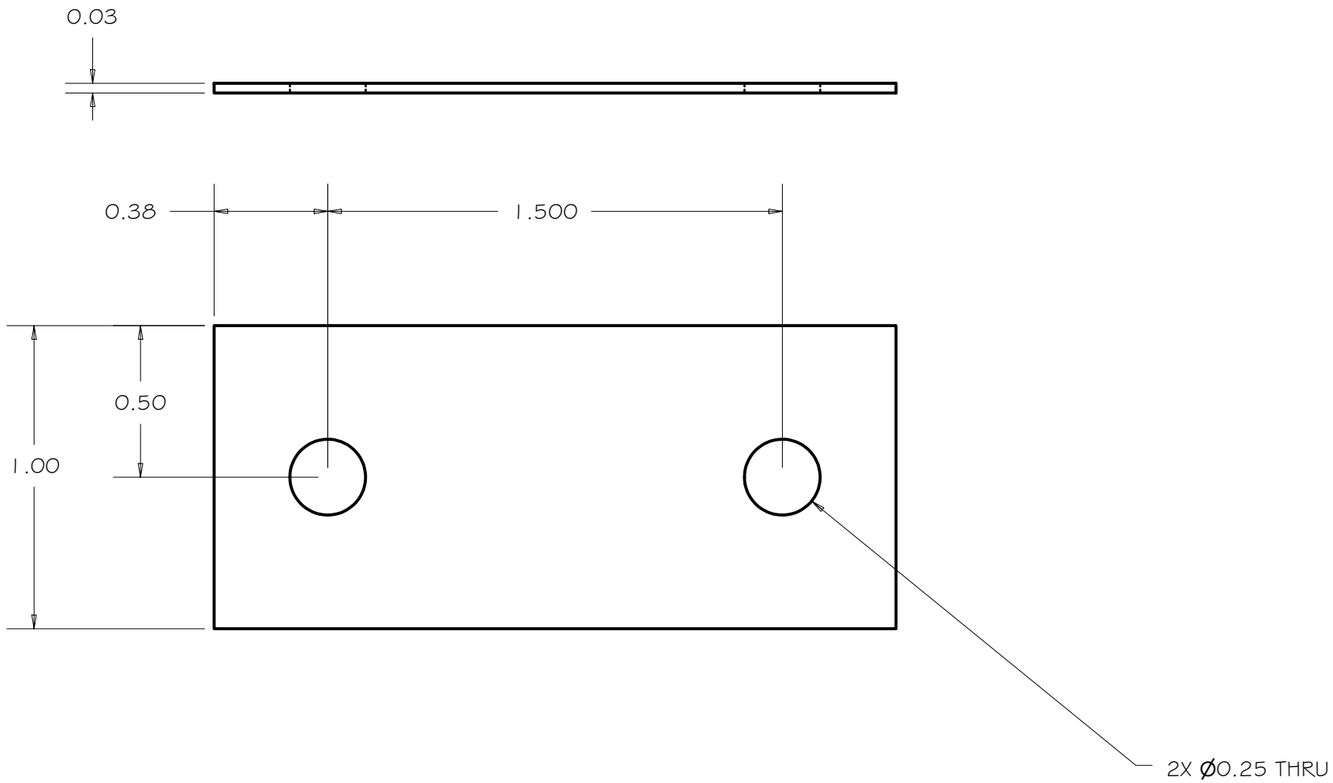
PROJECT CODE:
NEXT ASS'Y: A5001

DWG NO: A5045

REV: A

1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 2 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: SPRING STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/29/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

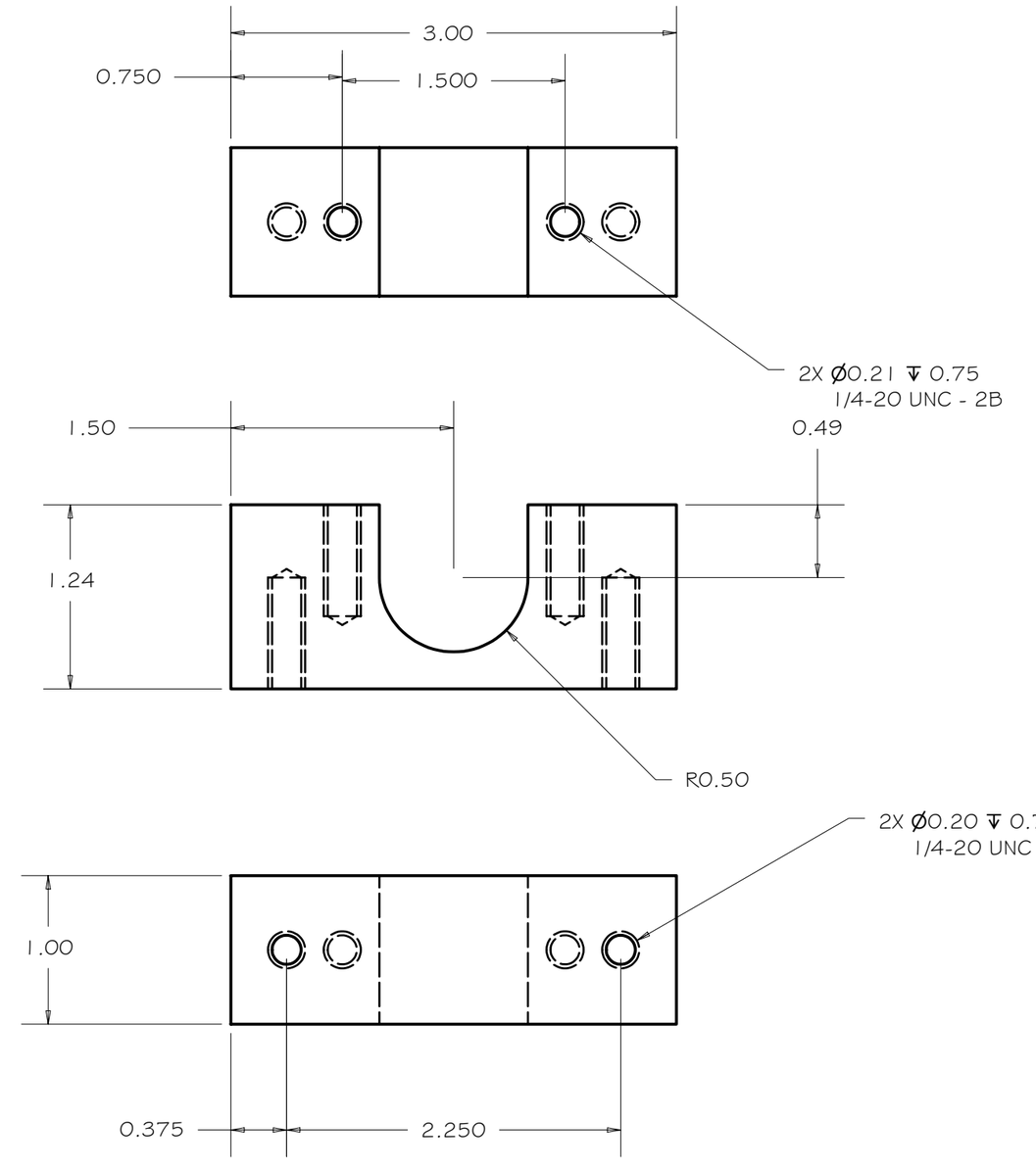
QTY: 2

Cassegrain ADC

TITLE: PIVOT CLAMP

PROJECT CODE:
NEXT ASS'Y: A5001
DWG NO: A5044
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/29/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

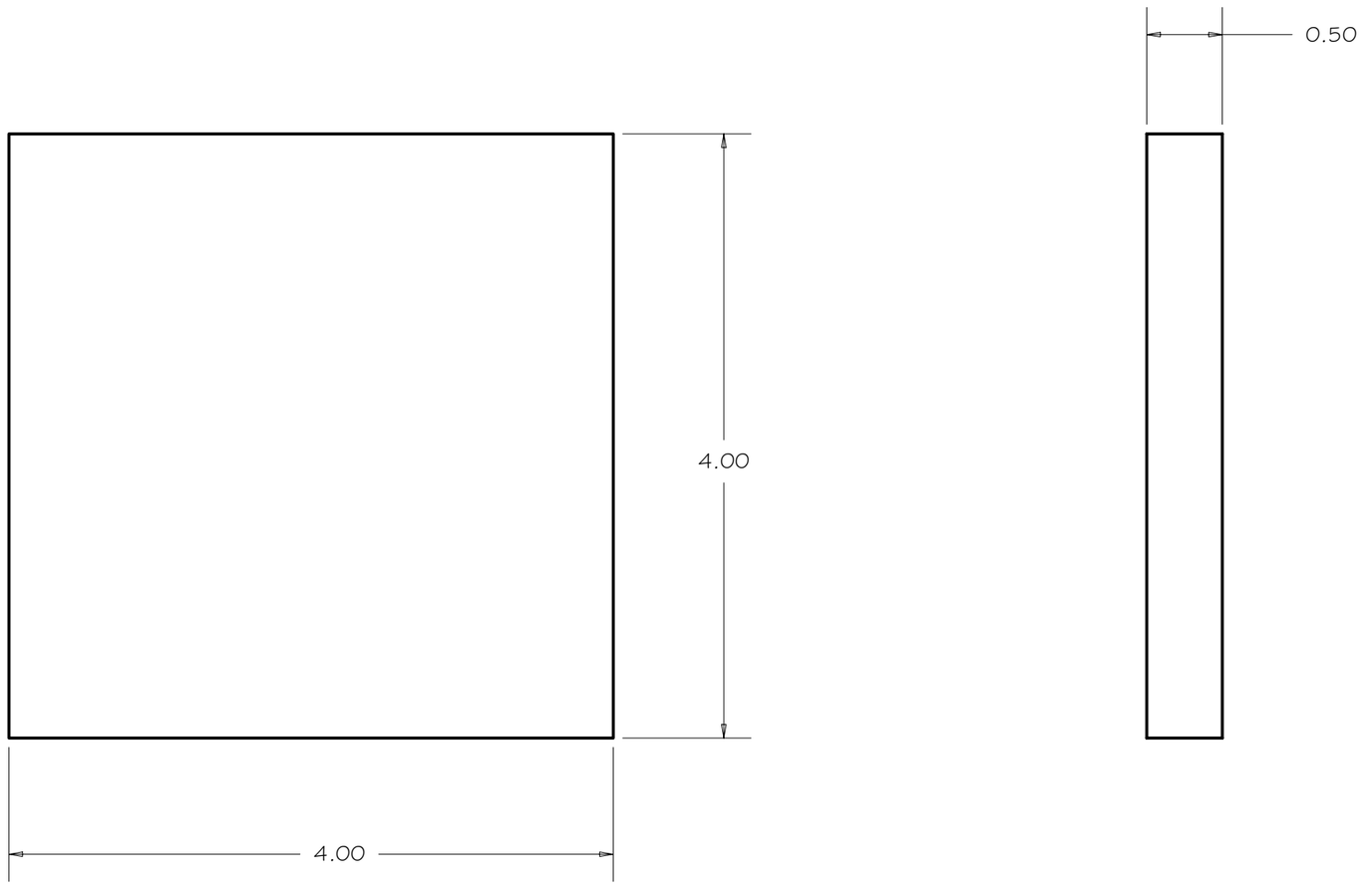
QTY: 2

Cassegrain ADC

TITLE: PIVOT MOUNT

PROJECT CODE:
NEXT ASS'Y: A5001
DWG NO: A5043
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



RUBBER PAD DUROMETER 50 TO 70

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL

FINISH

LICK OBSERVATORY

QTY: 2

DRAWN	vernon	3/29/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

TITLE: BUMPER

PROJECT CODE

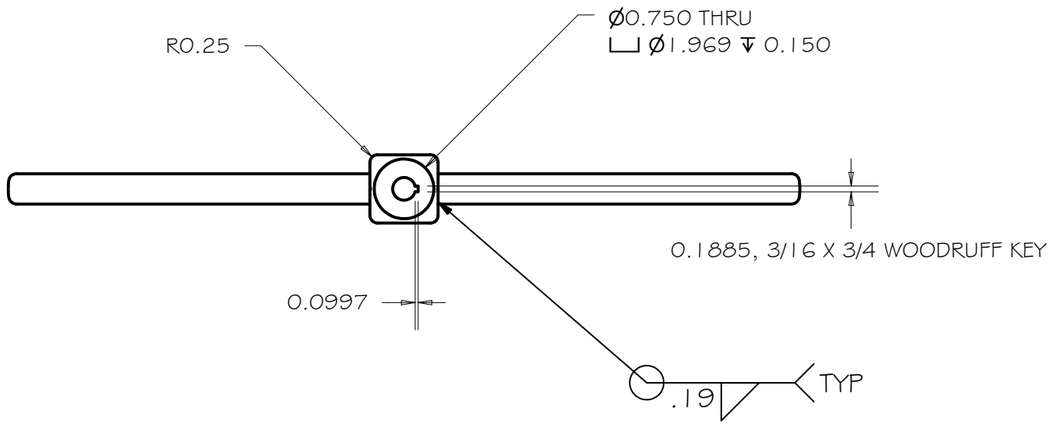
DWG NO: A5041

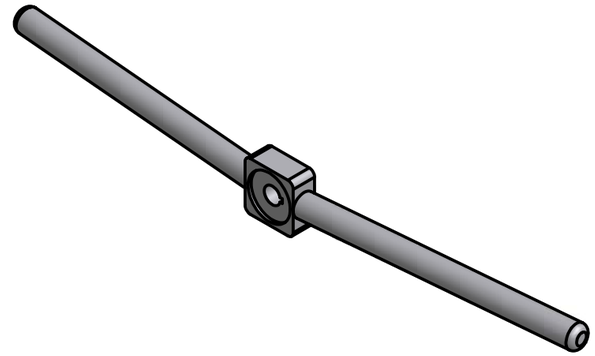
REV: A

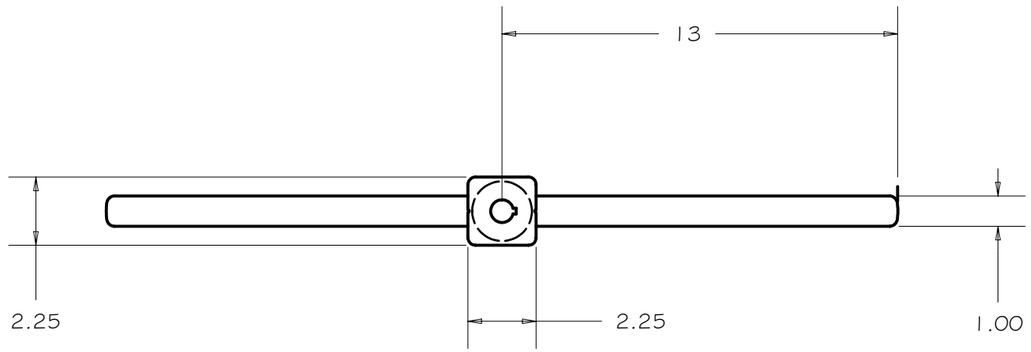
NEXT ASS'Y: A5001

1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

QTY: 1

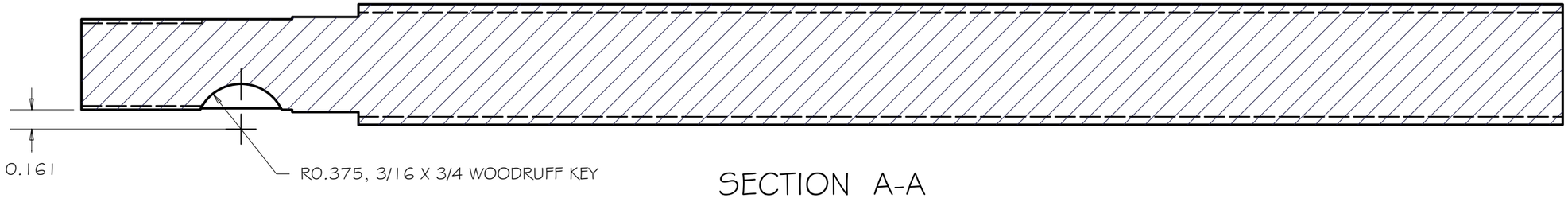
DRAWN	vernon	3/29/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

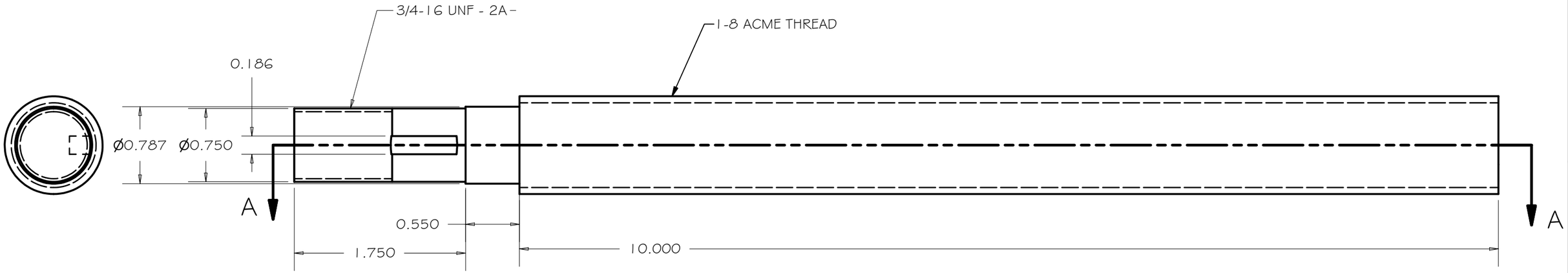
TITLE: ACME HANDLE

PROJECT CODE:
NEXT ASS'Y: A5030
DWG NO: A5032
REV: A
1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SECTION A-A
SCALE 1 : 1



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL	

LICK OBSERVATORY

DRAWN	vernon	3/29/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

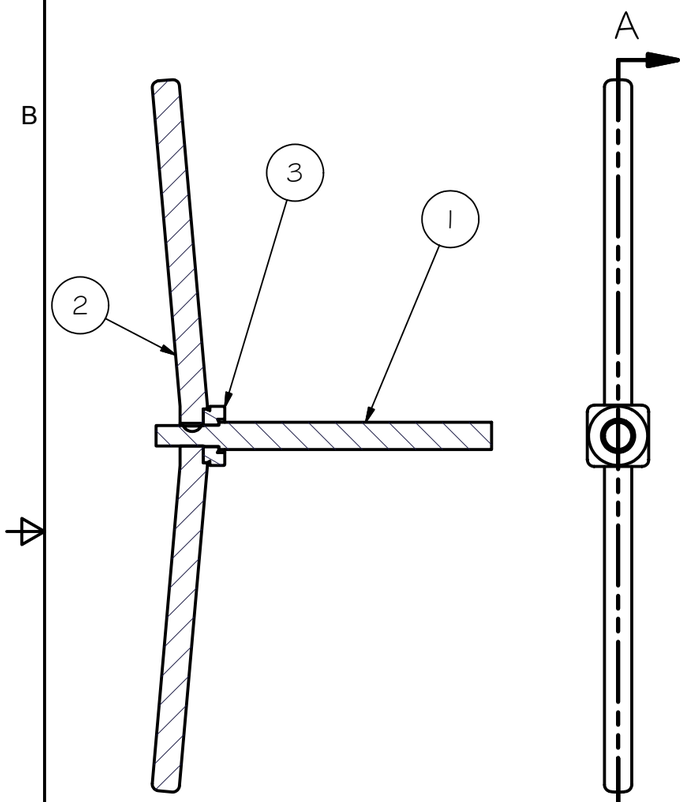
QTY: 1

Cassegrain ADC

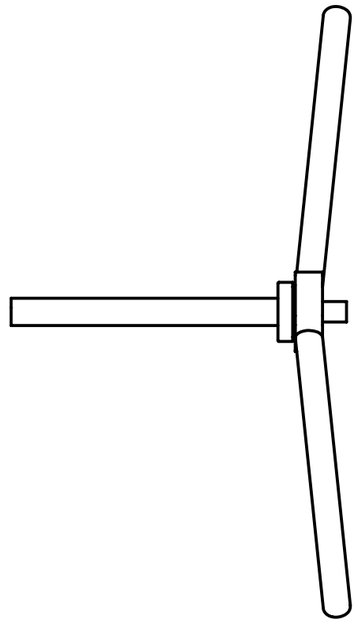
TITLE: ACME SCREW

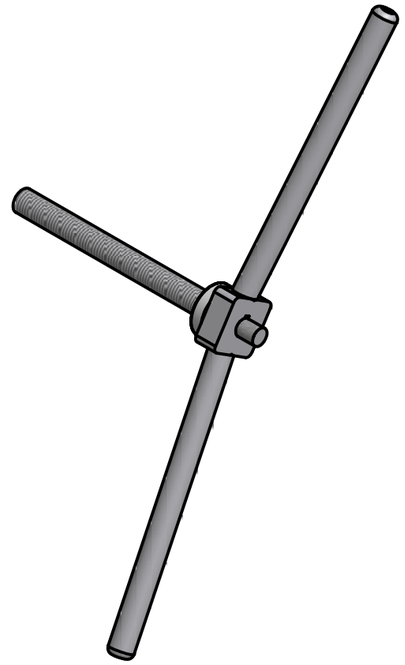
PROJECT CODE	DWG NO	REV
NEXT ASS'Y: A5030	A5031	A 1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SECTION A-A
SCALE 0.18 : 1





ASSEMBLY WITH:
1) 3/16 X 3/4 WOODRUFF KEY
2) 3/4-16 UNF LOCK NUT

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A5031	ACME SCREW
2	1	A5032	ACME HANDLE
3	1	SKF GX 20 F	SPHERICAL THRUST BEARING

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	3/29/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

TITLE: ACME SCREW ASSEMBLY

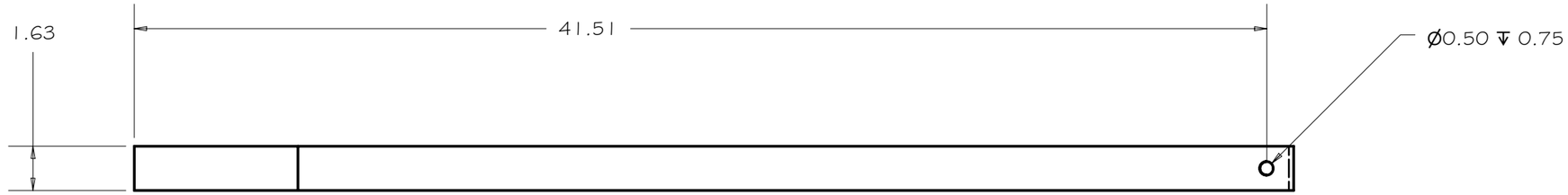
QTY: 1

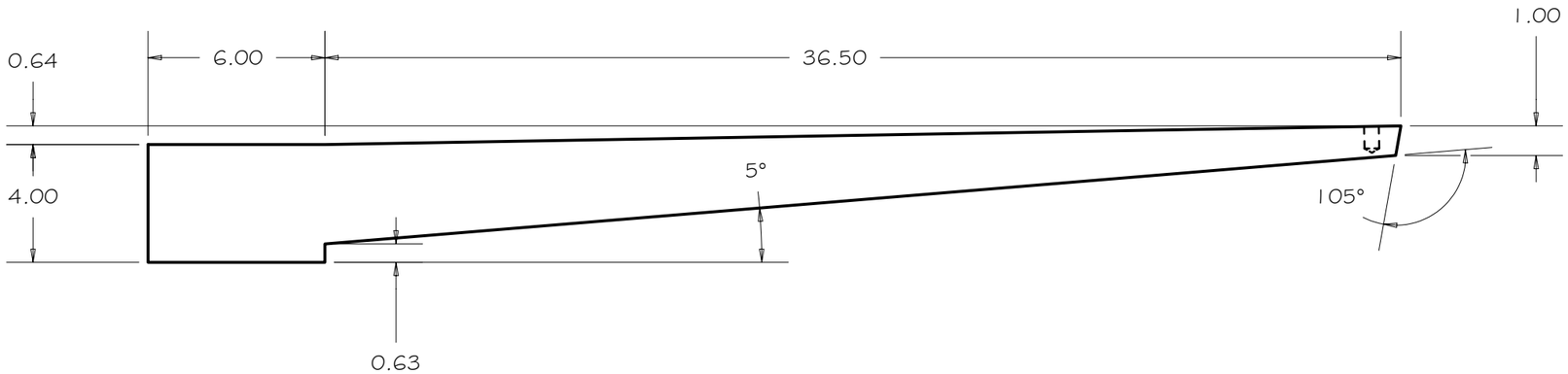
PROJECT CODE | DWG NO: A5030 | REV: A

NEXT ASS'Y: A5001

SHEET 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

QTY: 2

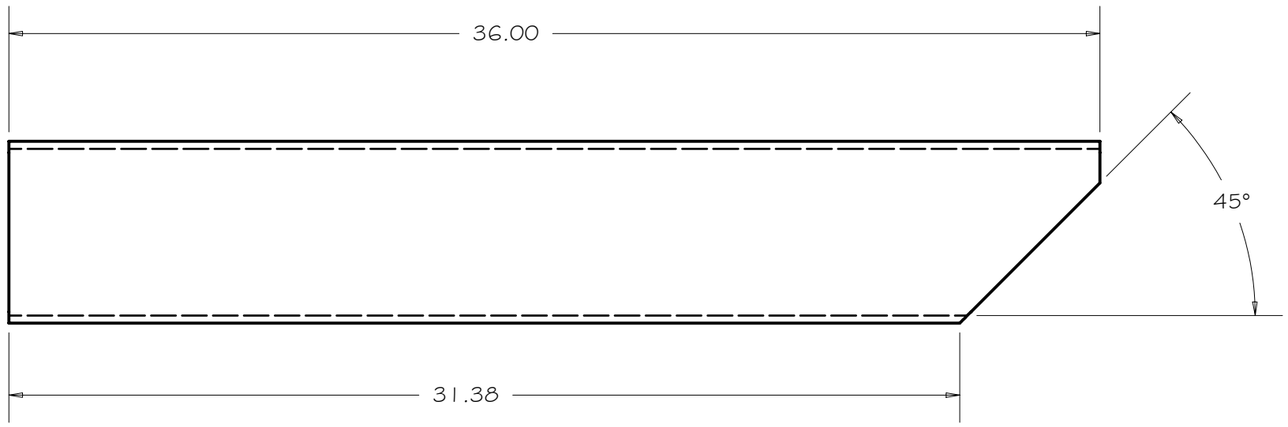
DRAWN	vernon	3/29/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

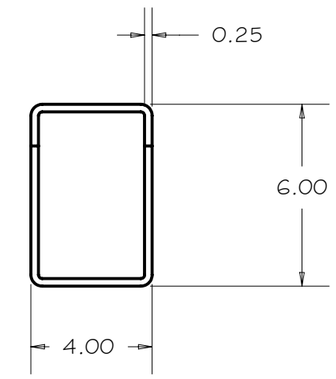
Cassegrain ADC

TITLE: FORK

PROJECT CODE:
NEXT ASS'Y: A5020
DWG NO: A5023
REV: A
SHEET 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL TUBE
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/29/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

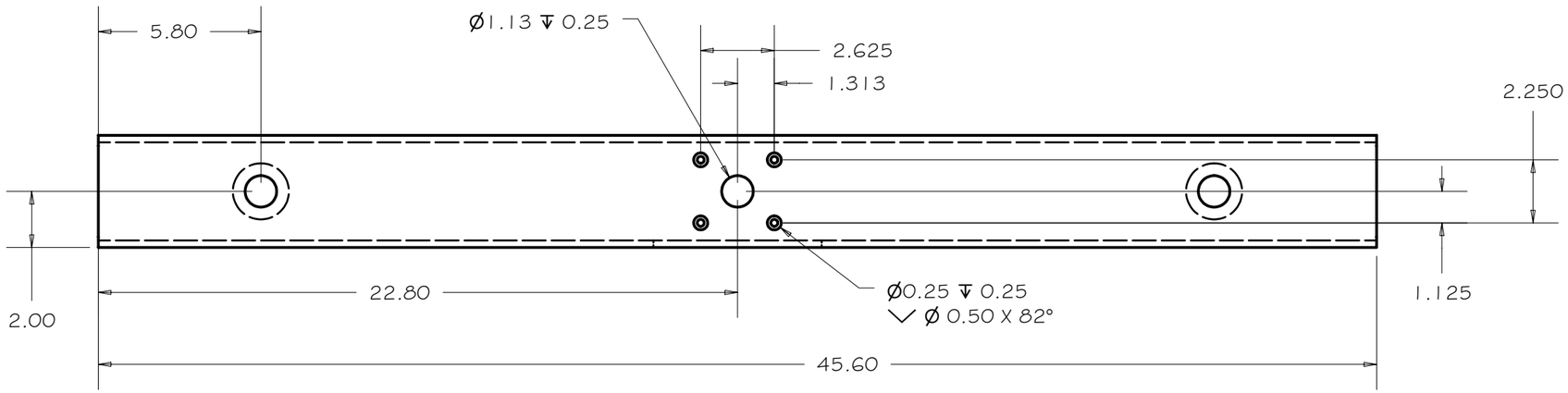
QTY: 2

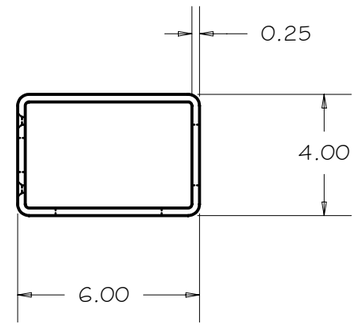
Cassegrain ADC

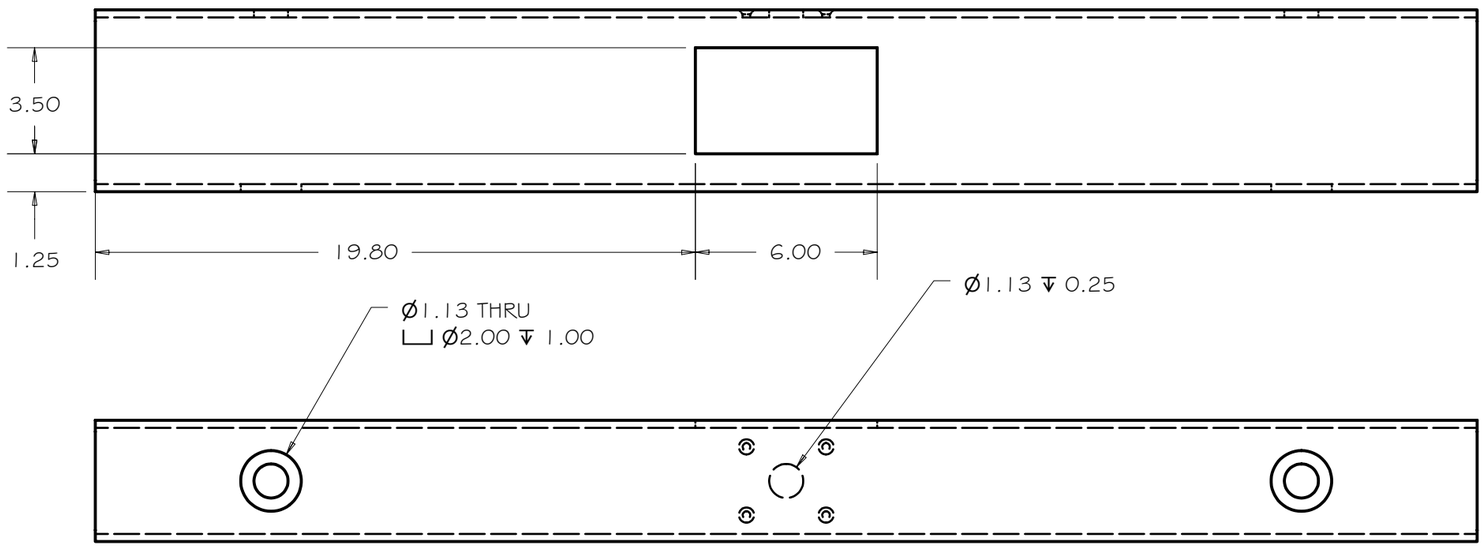
TITLE: BEAM, UPRIGHT

PROJECT CODE:
NEXT ASS'Y: A5020
DWG NO: A5022
REV: A

REV	DRWN	CHK'D	DATE	DESCRIPTION







TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	STEEL TUBE
FINISH	

LICK OBSERVATORY

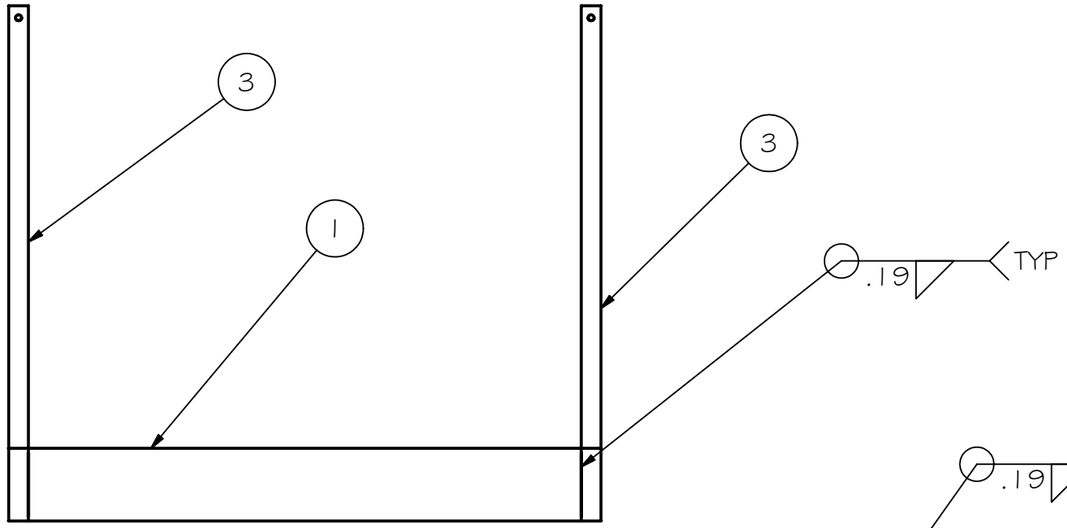
DRAWN	vernon	3/29/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	
QTY: 1		

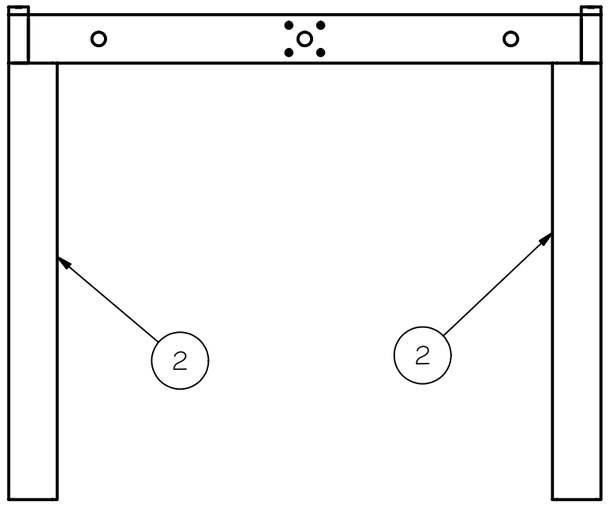
Cassegrain ADC

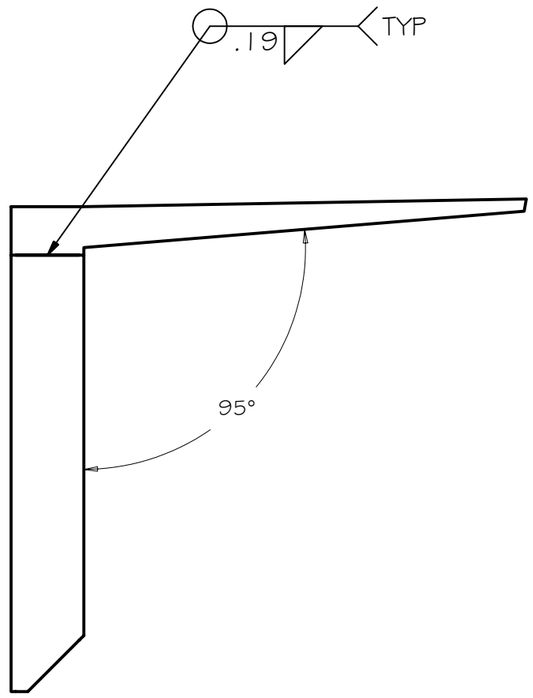
TITLE: BEAM, CROSS

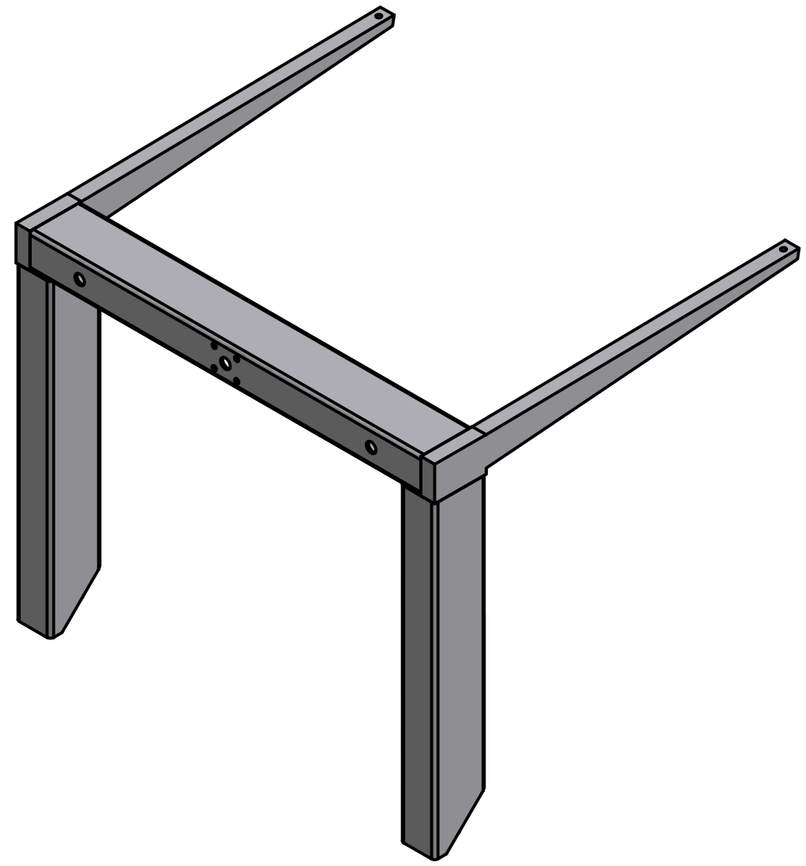
PROJECT CODE	
NEXT ASS'Y	A5020
DWG NO	A5021
REV	A
	1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION









SCALE 0.08 : 1

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A5021	BEAM, CROSS
2	2	A5022	BEAM, UPRIGHT
3	2	A5023	FORK

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL

FINISH

LICK OBSERVATORY

DRAWN vernon 3/29/2004

CHECKED

DESIGNED vernon

ENGINEER vernon

QTY: 1

Cassegrain ADC

TITLE: PIVOT WELDMENT

PROJECT CODE

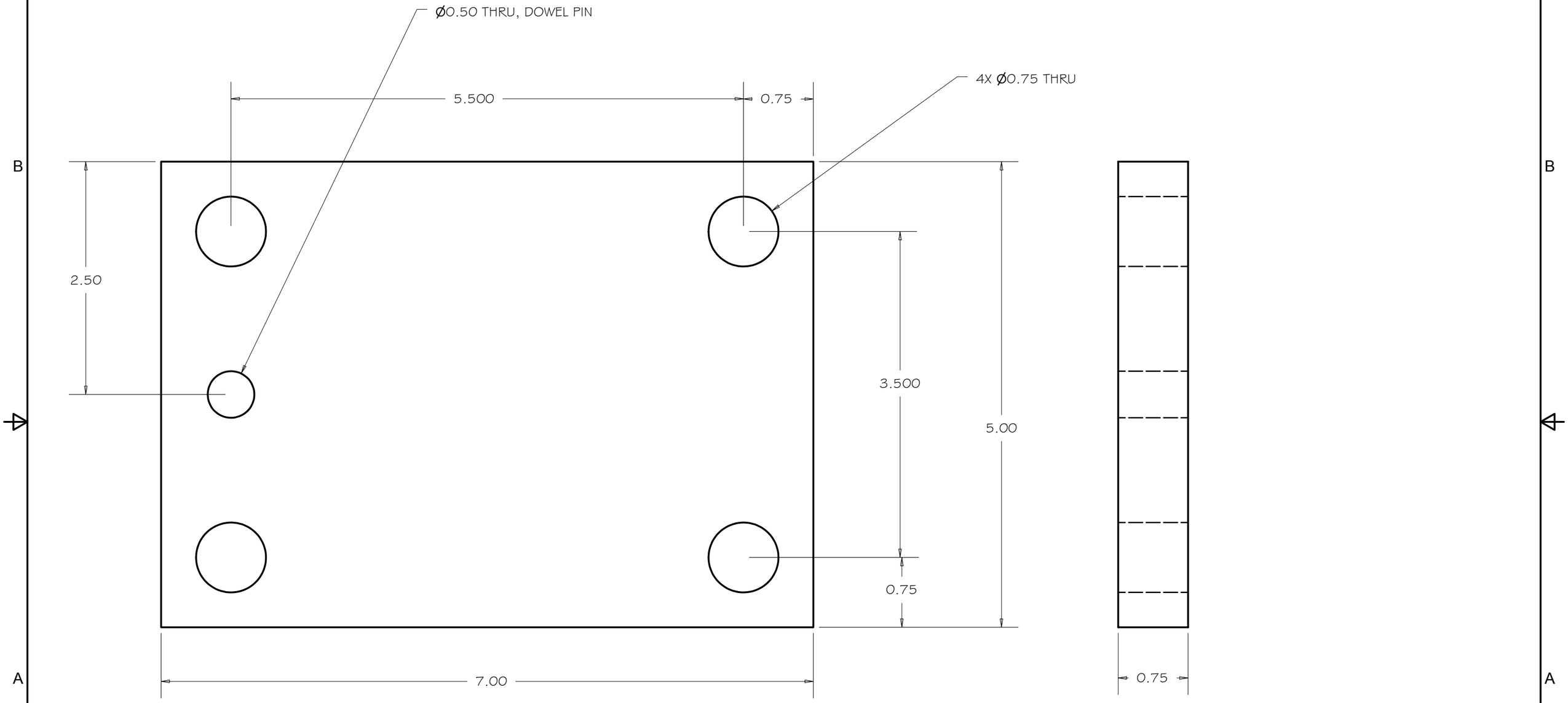
NEXT ASS'Y A5001

DWG NO A5020

REV A

1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 1 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL	

LICK OBSERVATORY

DRAWN	vernon	3/29/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

QTY: 3

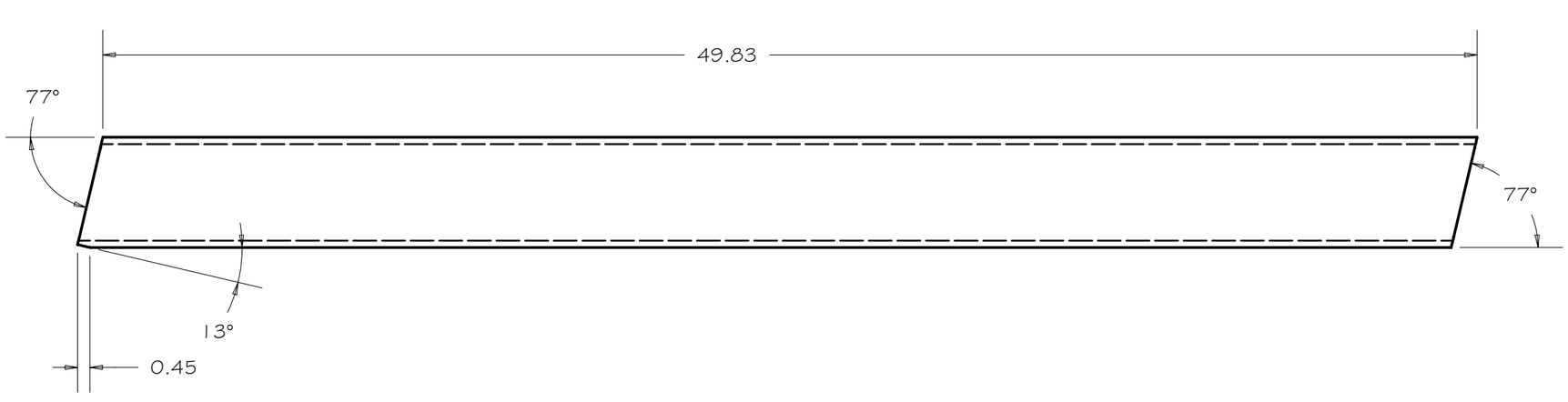
Cassegrain ADC

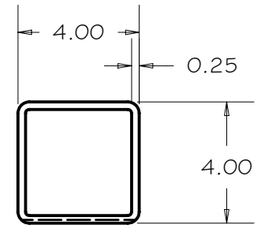
TITLE: FLANGE

PROJECT CODE	DWG NO	REV
NEXT ASS'Y: A5010	A5014	A

1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL TUBE
FINISH:

LICK OBSERVATORY

DRAWN	vernon	3/29/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

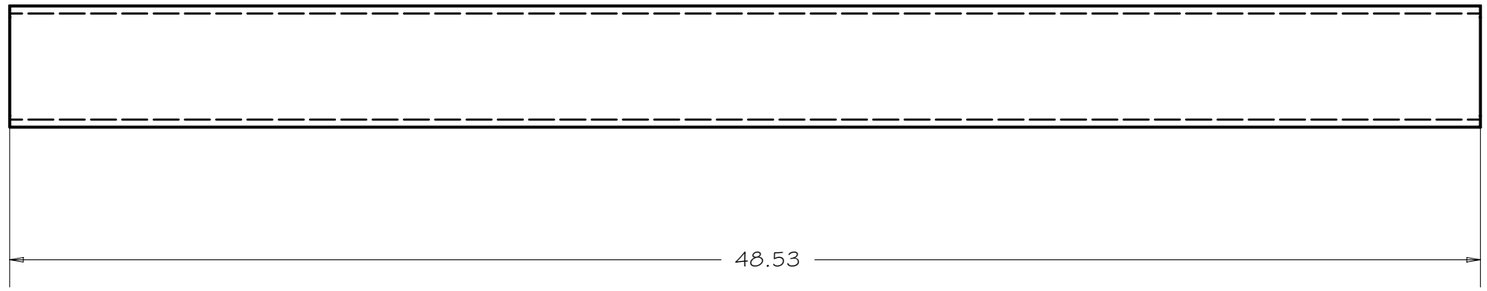
QTY: 1

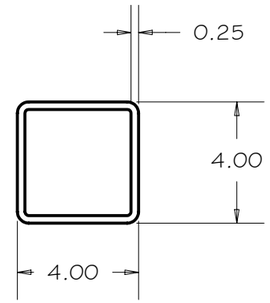
Cassegrain ADC

TITLE: BEAM, DIAGONAL

PROJECT CODE:
NEXT ASS'Y: A5010
DWG NO: A5013
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL TUBE
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/29/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

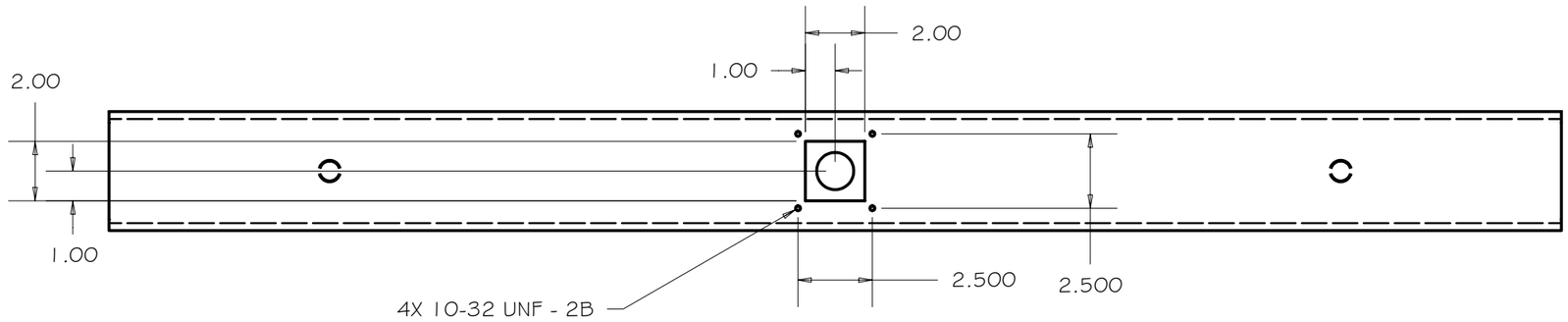
QTY: 2

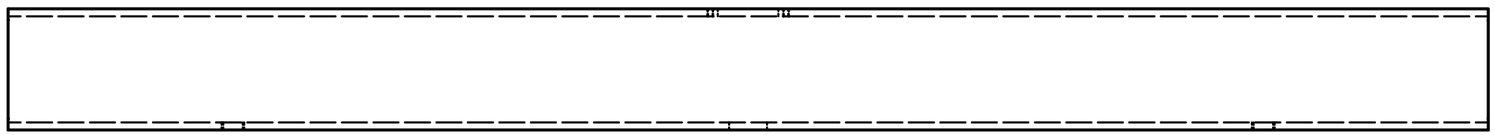
Cassegrain ADC

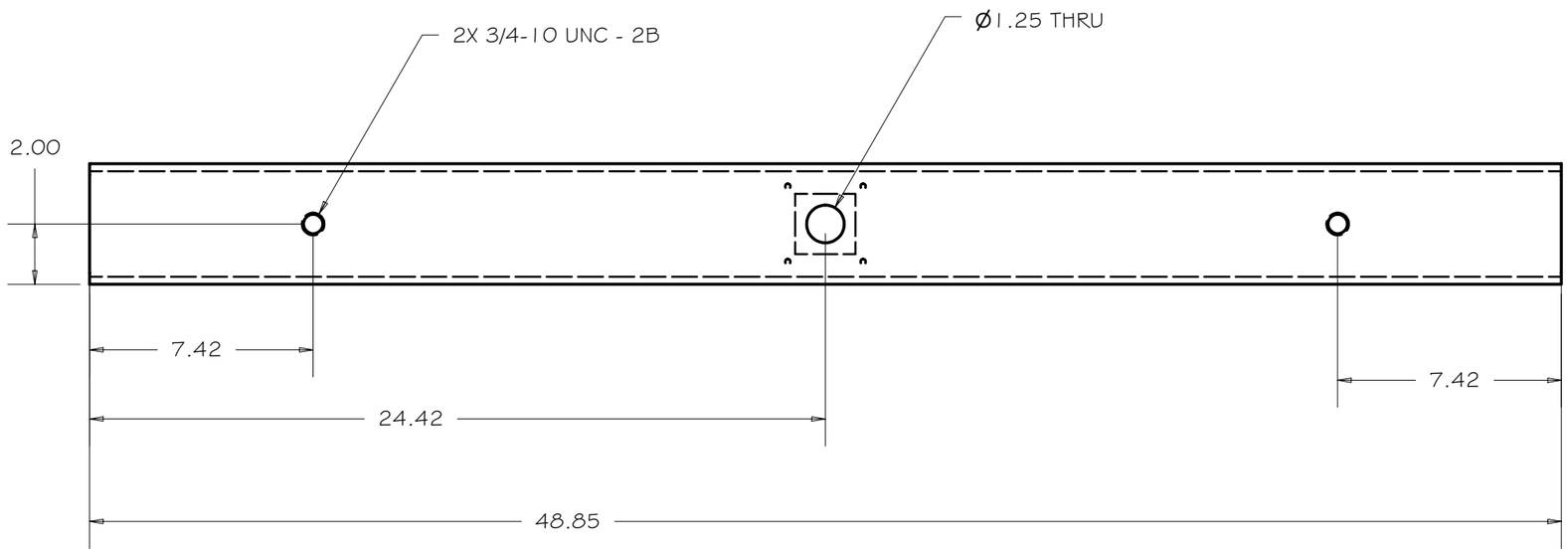
TITLE: BEAM, UPRIGHT

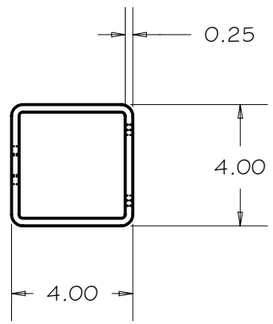
PROJECT CODE:
NEXT ASS'Y: A5010
DWG NO: A5012
REV: A

REV	DRWN	CHK'D	DATE	DESCRIPTION









TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL TUBE	

LICK OBSERVATORY

DRAWN	vernon	3/29/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

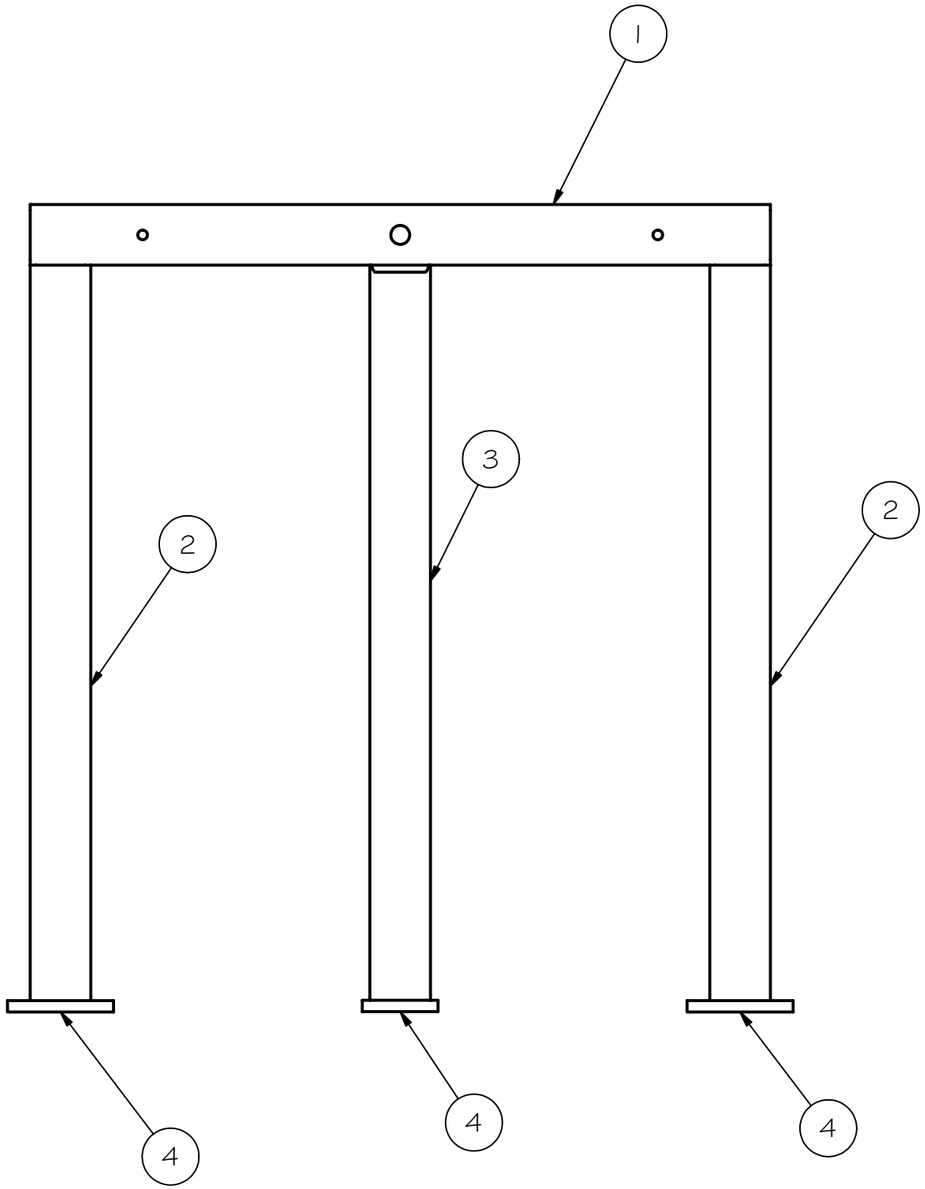
QTY: 1

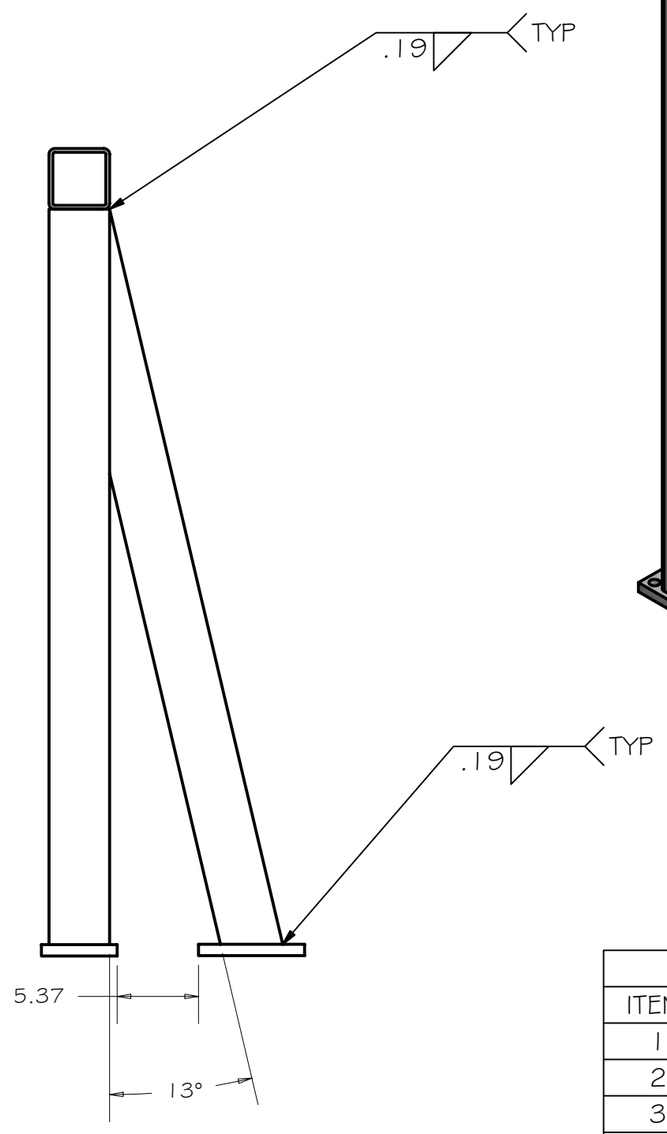
Cassegrain ADC

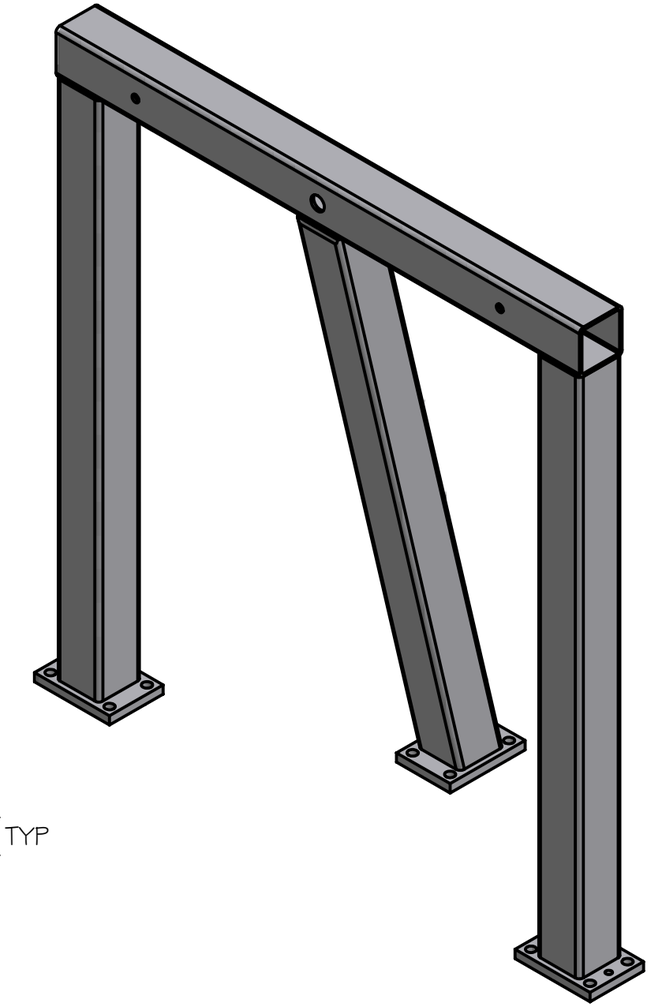
TITLE: BEAM, CROSS

PROJECT CODE	DWG NO	REV
NEXT ASS'Y: A5010	A5011	A 1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION







Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A5011	BEAM, CROSS
2	2	A5012	BEAM, UPRIGHT
3	1	A5013	BEAM, DIAGONAL
4	3	A5014	FLANGE

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN vernon 3/29/2004
CHECKED
DESIGNED vernon
ENGINEER vernon

QTY: 1

Cassegrain ADC

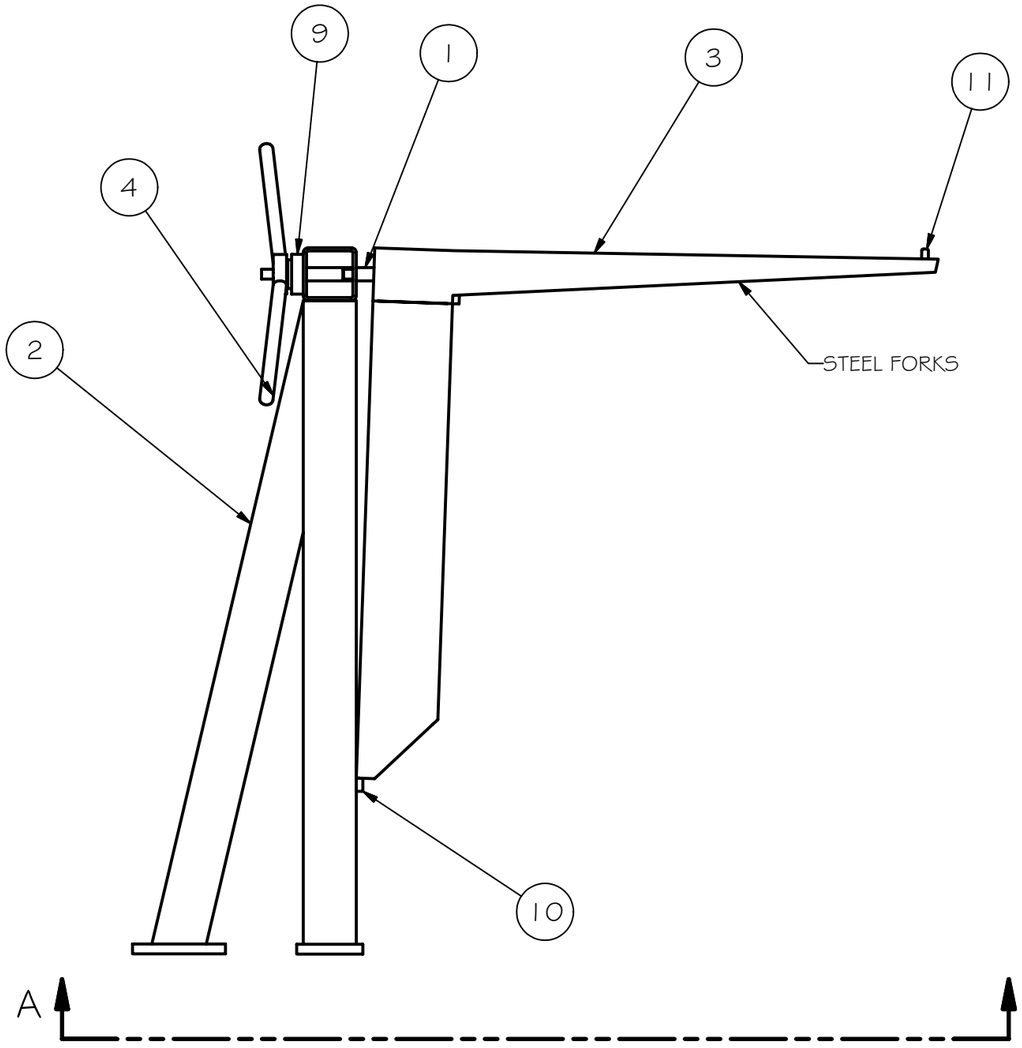
TITLE: BASE WELDMENT

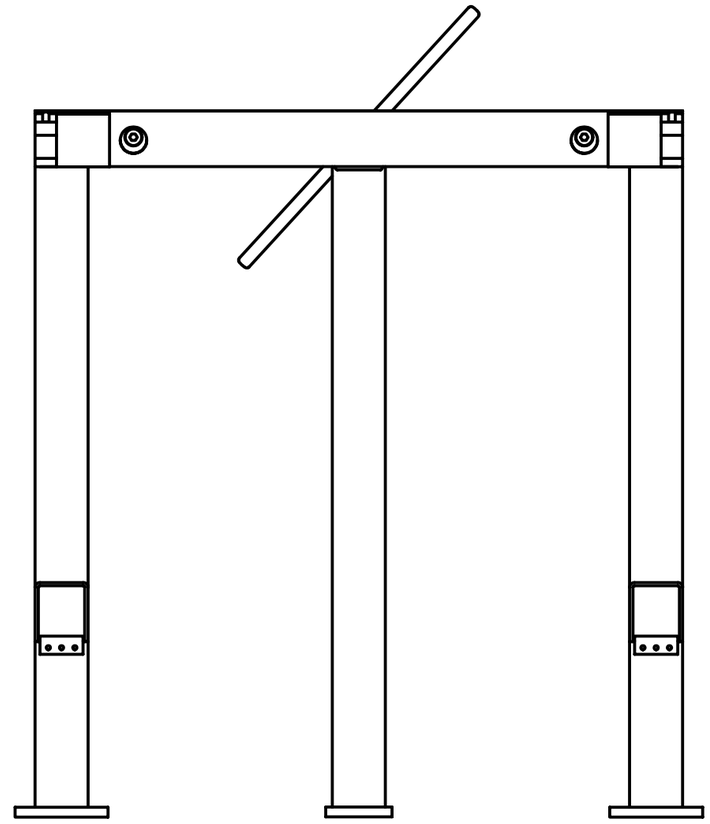
PROJECT CODE | DWG NO A5010 | REV A

NEXT ASS'Y A5001

SHEET 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL

FINISH

LICK OBSERVATORY

QTY: 1

DRAWN	vernon	8/27/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

TITLE: JACK STAND

PROJECT CODE

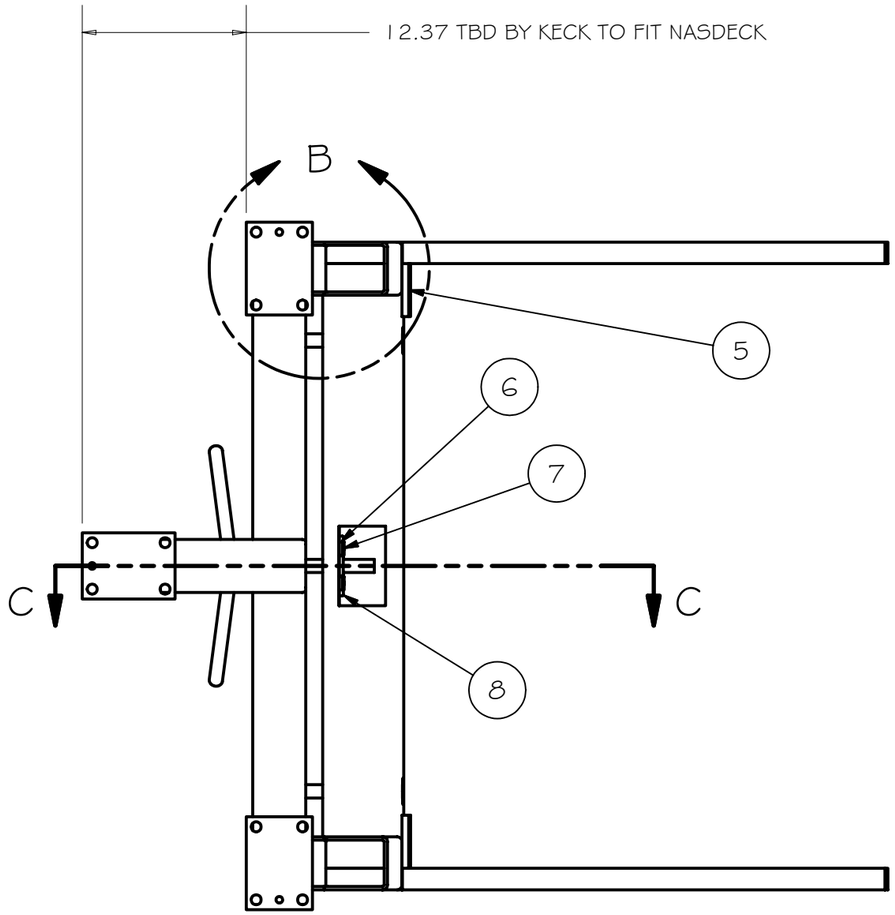
NEXT ASS'Y: A0003

DWG NO: A5001

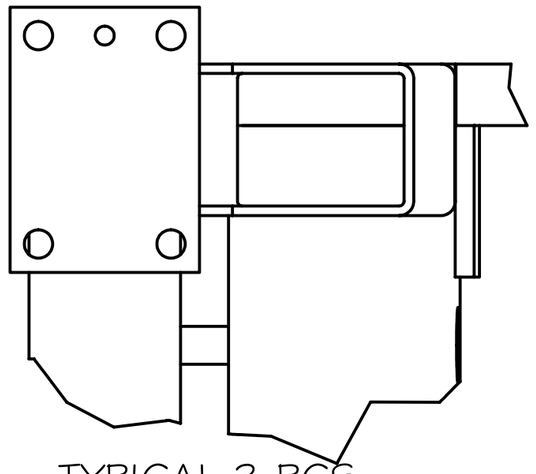
REV: A

1/3

REV	DRWN	CHK'D	DATE	DESCRIPTION



VIEW A-A
SCALE 0.09 : 1



TYPICAL 3 PCS
DETAIL B
SCALE 1 / 4

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	----	1" X 1 1/2" SHOULDER BOLT
2	1	A5010	BASE WELDMENT
3	1	A5020	PIVOT WELDMENT
4	1	A5030	ACME SCREW ASSEMBLY
5	2	A5041	BUMPER
6	2	A5043	PIVOT MOUNT
7	2	A5044	PIVOT CLAMP
8	1	A5045	ACME PIVOT
9	1	A5046	BEARING MOUNT
10	2	A5047	HINGE
11	2	DOWEL_PIN	1/2" X 1.5" DOWEL PIN

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	8/27/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

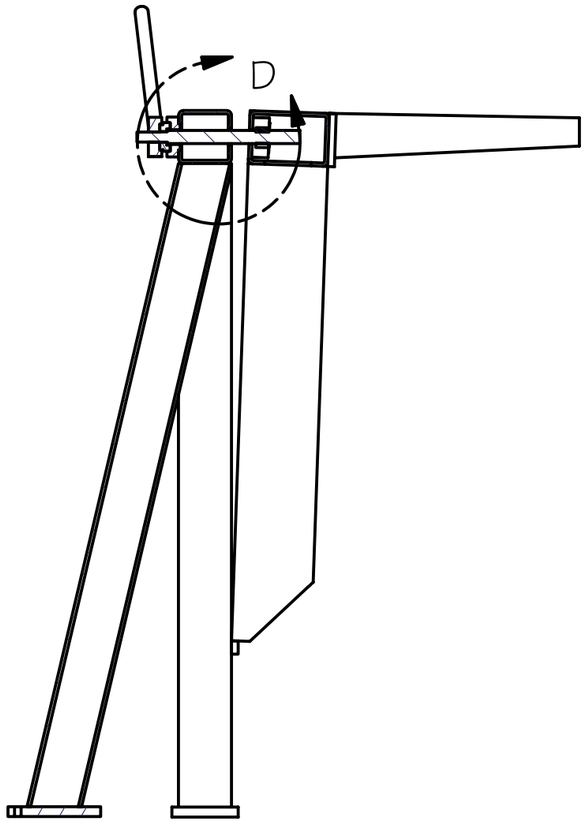
Cassegrain ADC

TITLE: JACK STAND

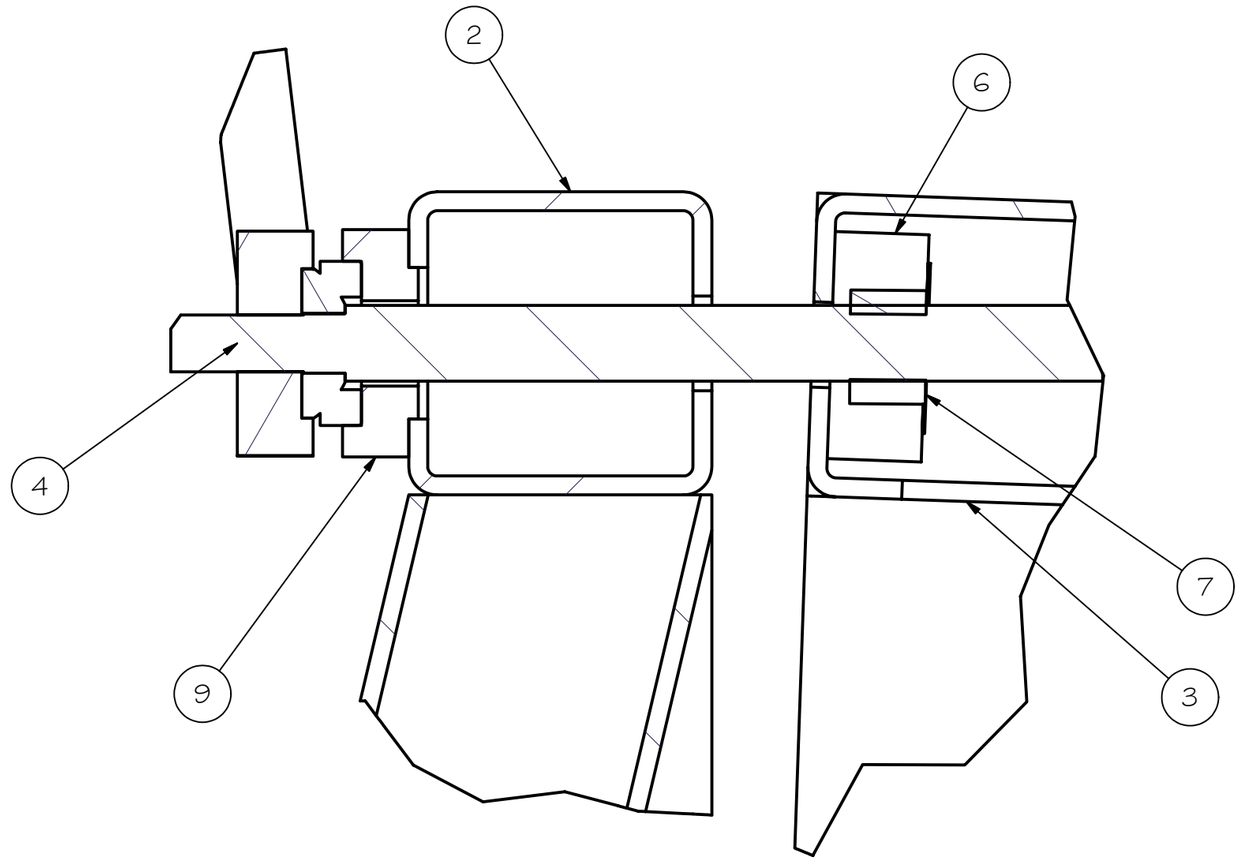
PROJECT CODE | DWG NO: A5001 | REV: A | 2 / 3

NEXT ASS'Y: A0003

REV	DRWN	CHK'D	DATE	DESCRIPTION



SECTION C-C
SCALE 0.09 : 1



DETAIL D
SCALE 1 / 2

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

QTY: 1

DRAWN	vernon	8/27/2003
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

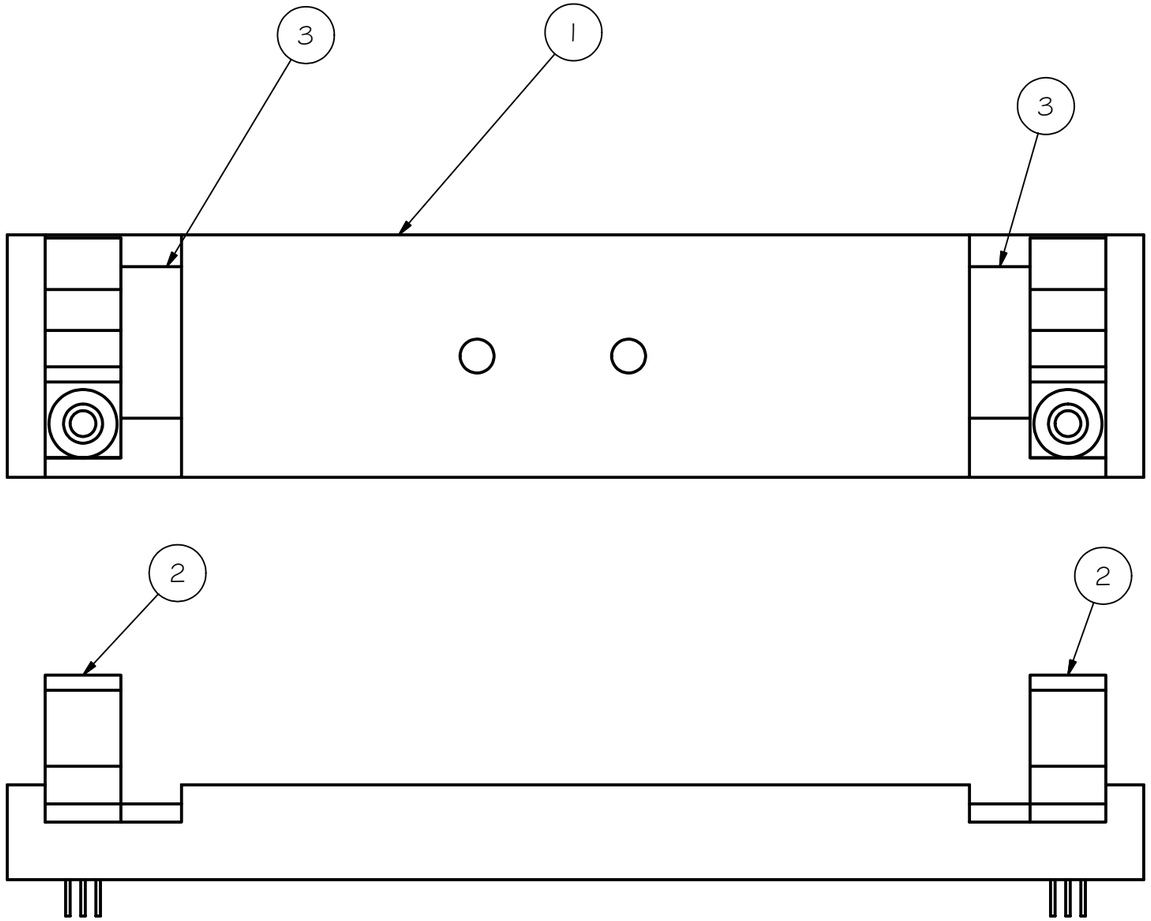
TITLE: JACK STAND

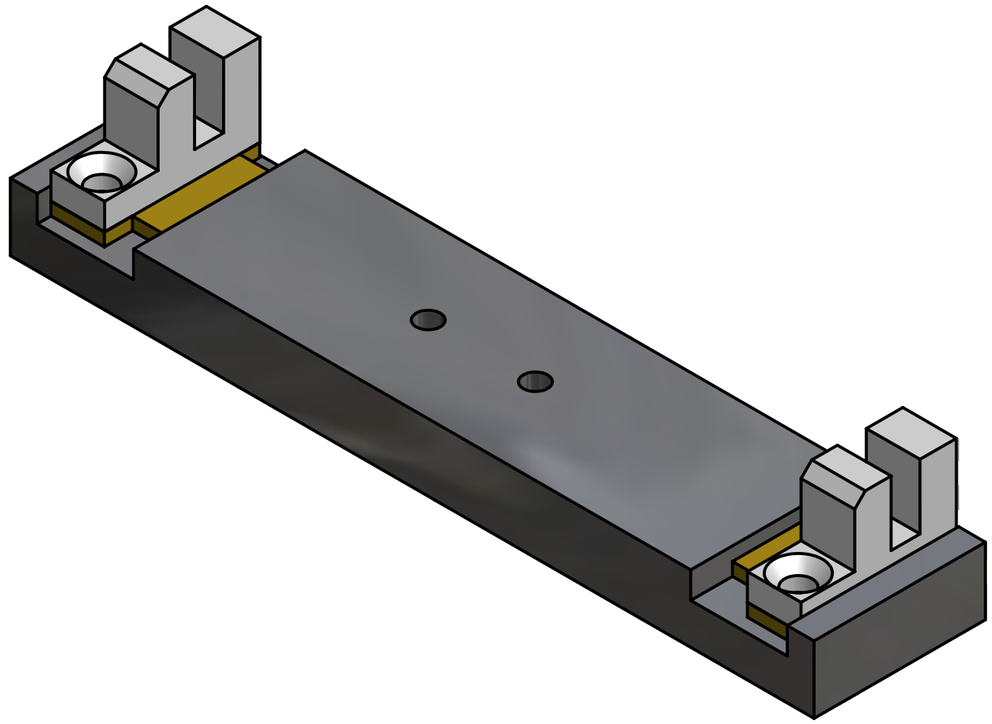
PROJECT CODE | DWG NO: A5001 | REV: A

NEXT ASS'Y: A0003

3 / 3

REV	DRWN	CHK'D	DATE	DESCRIPTION





SCALE 2 : 1

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A3018	2 WIDE FIDUCAL MOUNT
2	2	A3010	CHERRY VN1015 MODIFIED
3	2	A3011	FIDUCAL PC BOARD

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN vernon 3/25/2004
CHECKED
DESIGNED vernon
ENGINEER vernon

QTY: 1

Cassegrain ADC

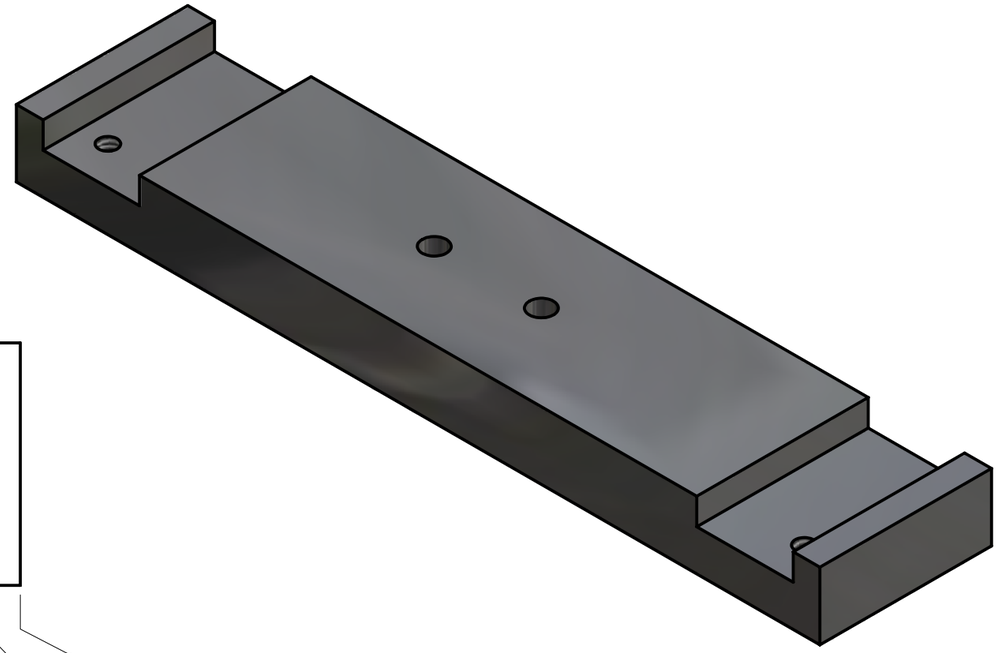
TITLE: FIDUCAL ASSEMBLY, WIDE DOUBLE

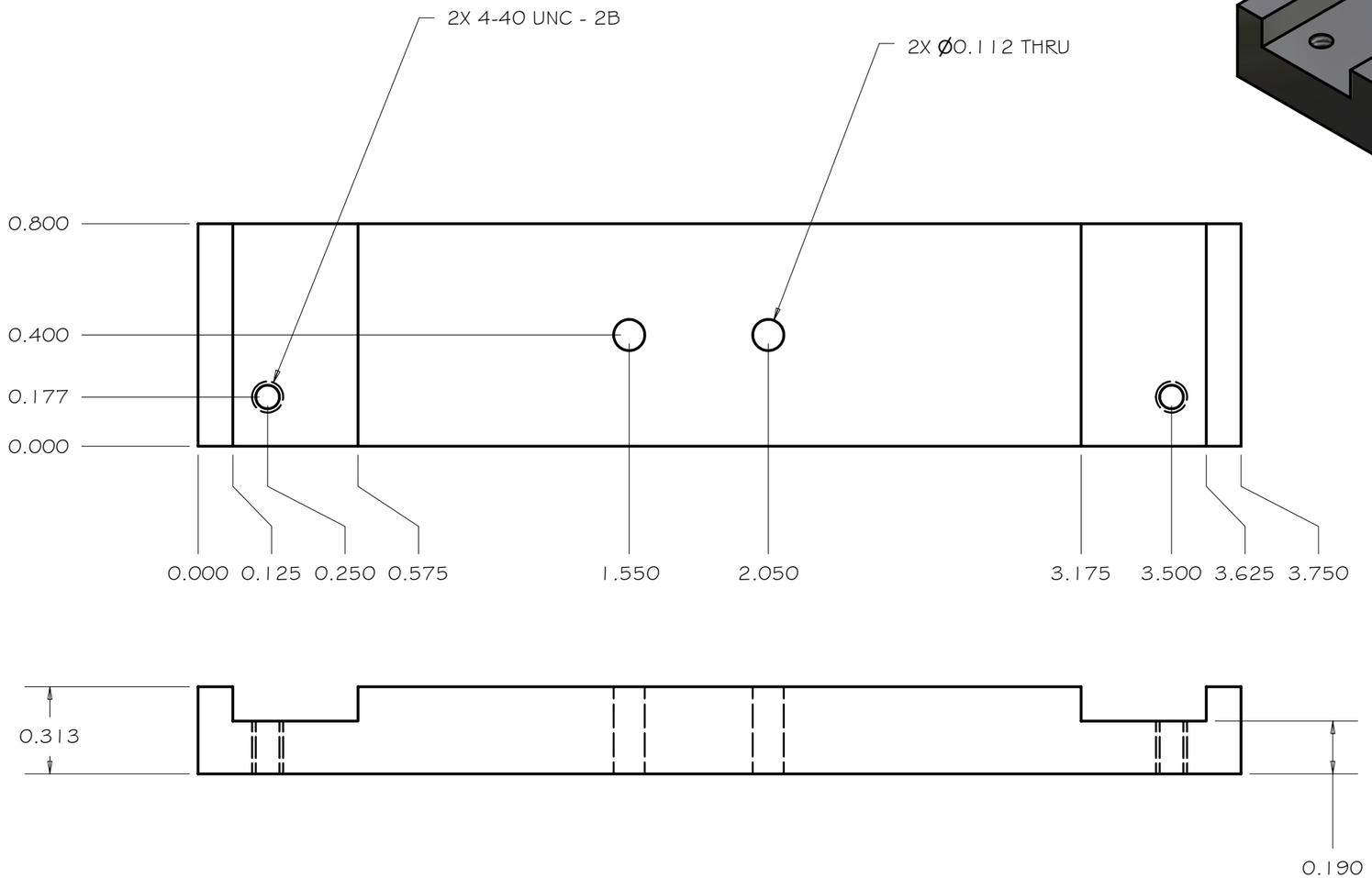
PROJECT CODE | DWG NO A3019 | REV A

NEXT ASS'Y A0001

SHEET 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





SCALE 2 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: DELRIN, BLACK
FINISH:

LICK OBSERVATORY

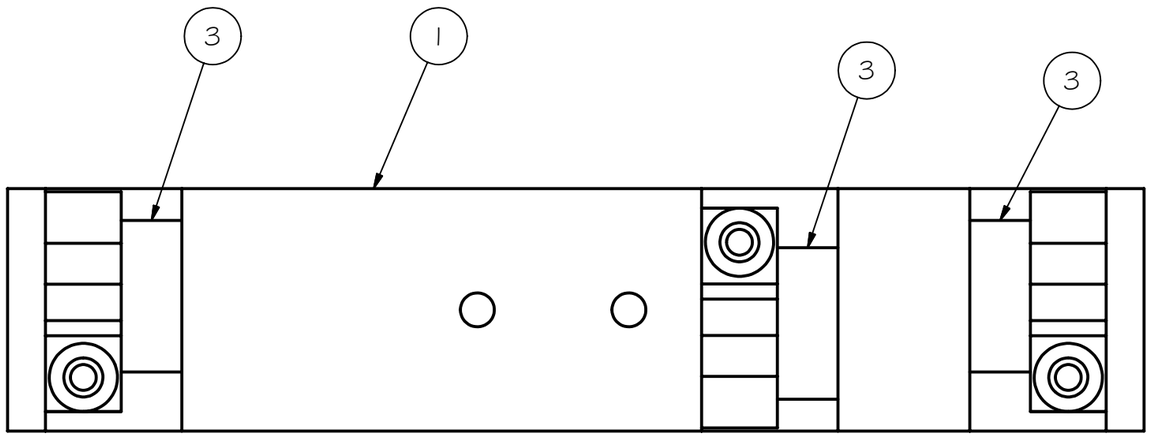
DRAWN: vernon 3/25/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon
QTY: 1

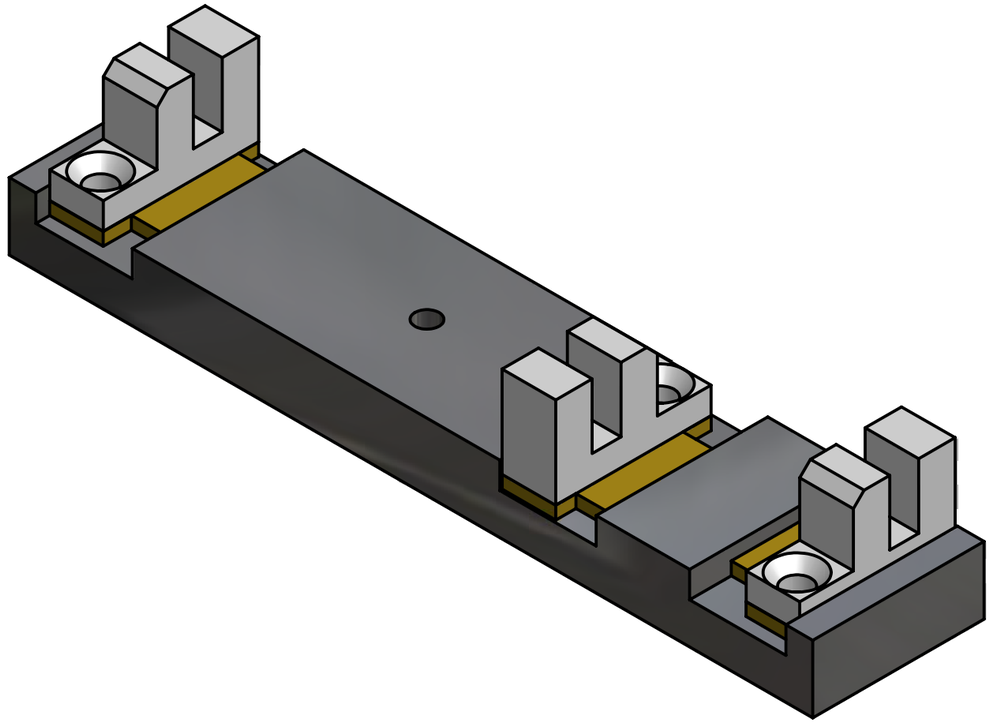
Cassegrain ADC

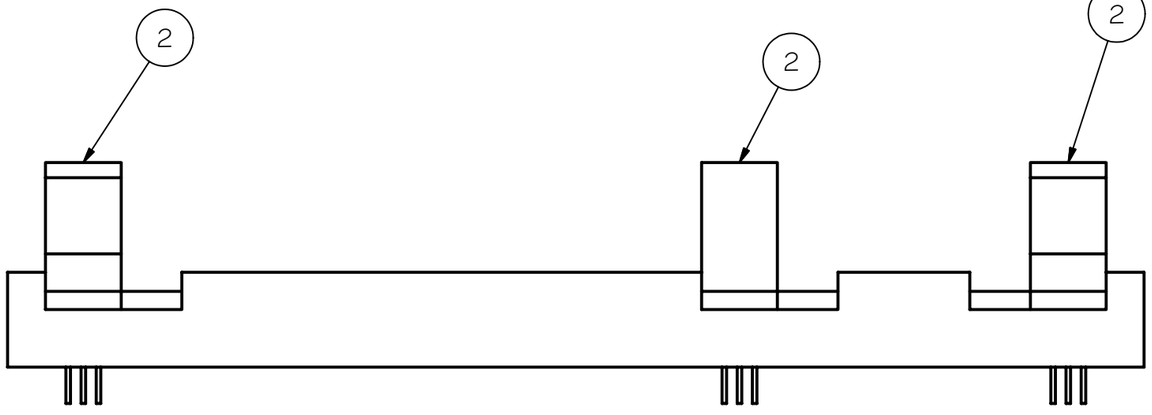
TITLE: 2 WIDE FIDUCAL MOUNT

PROJECT CODE:
NEXT ASS'Y: A3019
DWG NO: A3018
REV: A
SHEET 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







SCALE 2 : 1

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A3014	3 FIDUCAL MOUNT
2	3	A3010	CHERRY VN1015 MODIFIED
3	3	A3011	FIDUCAL PC BOARD

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

QTY: 1

DRAWN	vernon	3/25/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

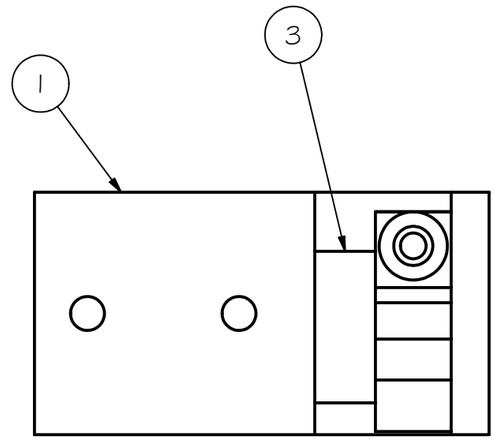
Cassegrain ADC

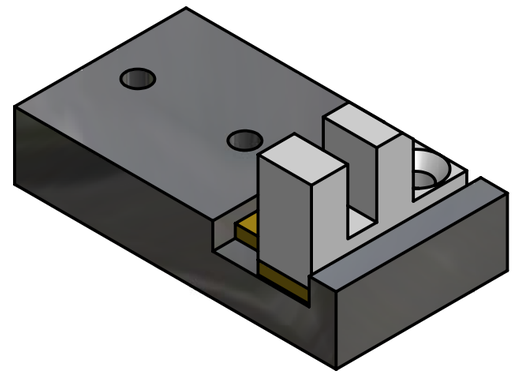
TITLE: FIDUCAL ASSEMBLY, TRIPLE

PROJECT CODE | DWG NO: A3017 | REV: A | 1 / 1

NEXT ASS'Y: A0001

REV	DRWN	CHK'D	DATE	DESCRIPTION





SCALE 2 : 1

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A3013	1 FIDUCAL MOUNT
2	1	A3010	CHERRY VN1015 MODIFIED
3	1	A3011	FIDUCAL PC BOARD

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL

FINISH

LICK OBSERVATORY

DRAWN	vernon	3/25/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

TITLE: FIDUCAL ASSEMBLY, SINGLE

PROJECT CODE

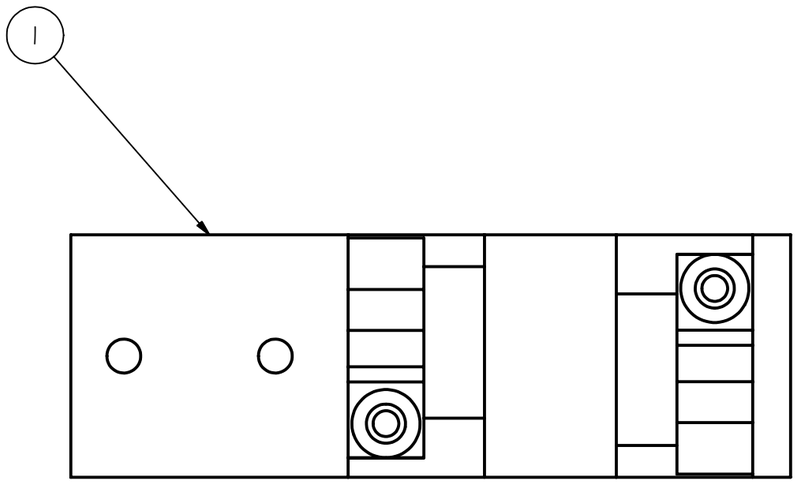
DWG NO: A3016

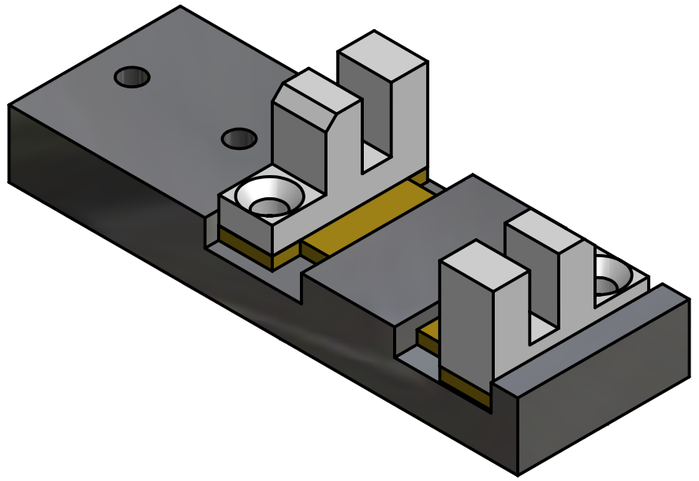
REV: A

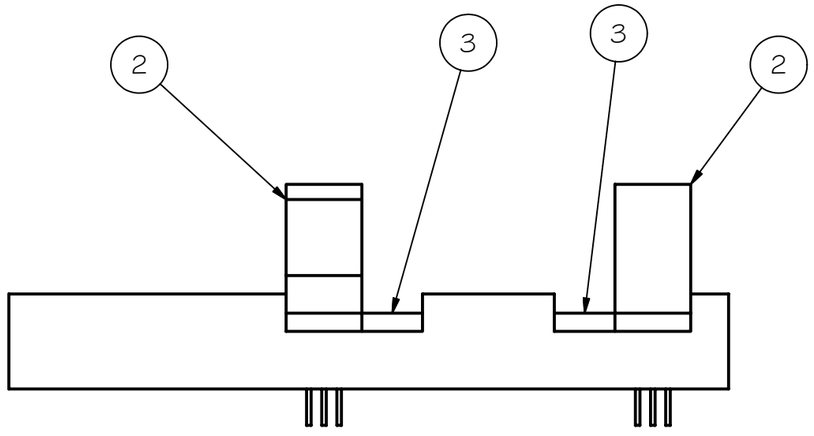
NEXT ASS'Y: A0001

1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A3012	2 FIDUCAL MOUNT
2	2	A3010	CHERRY VN1015 MODIFIED
3	2	A3011	FIDUCAL PC BOARD

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

QTY: 1

DRAWN	vernon	3/25/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

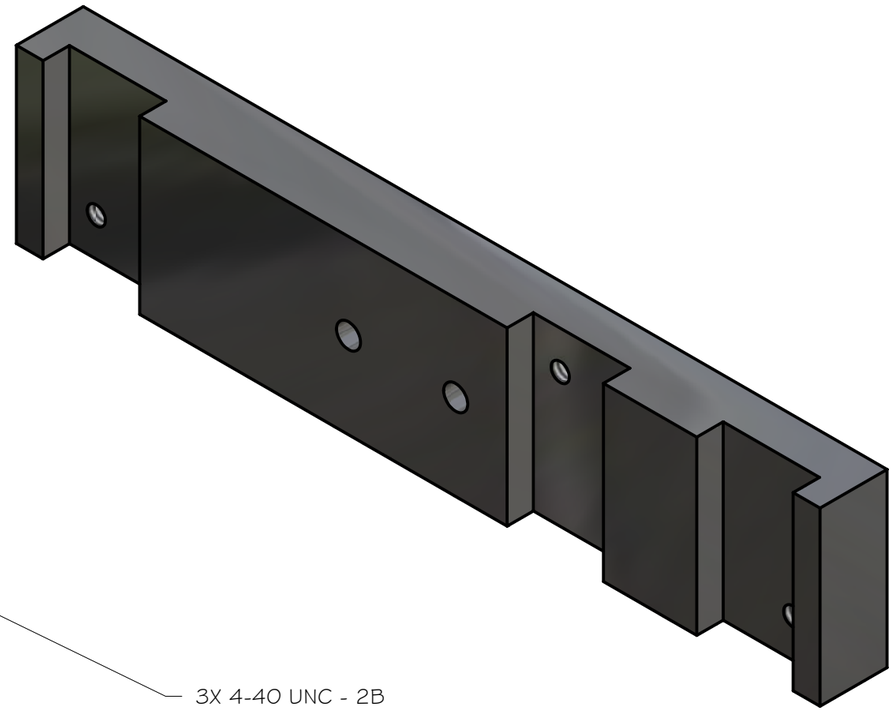
TITLE: FIDUCAL ASSEMBLY, DOUBLE

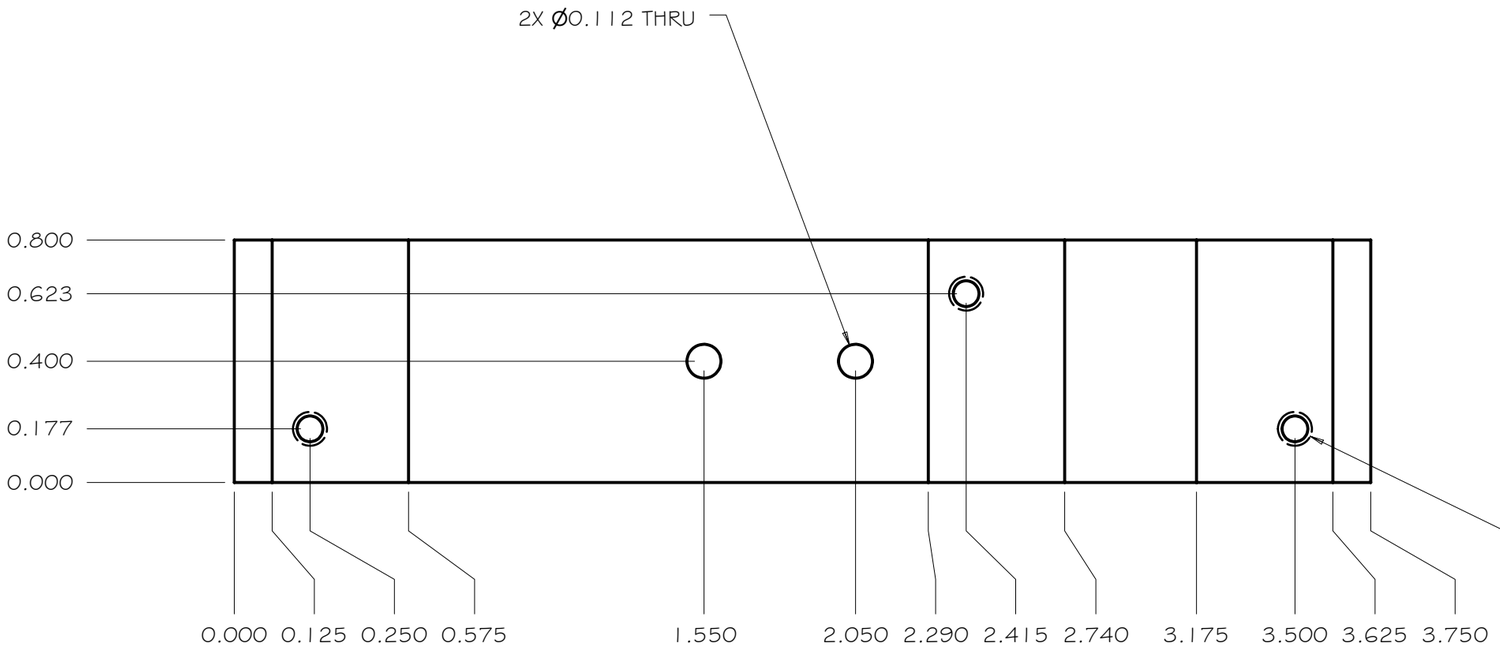
PROJECT CODE | DWG NO: A3015 | REV: A

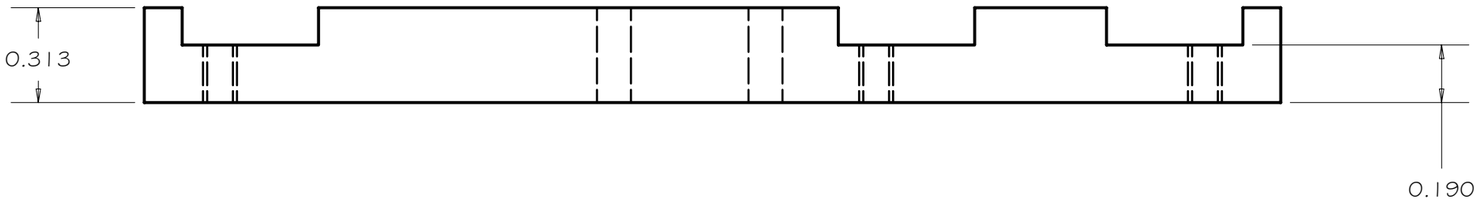
NEXT ASS'Y: A0001

SHEET 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







SCALE 2 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
DELRIN, BLACK	

LICK OBSERVATORY

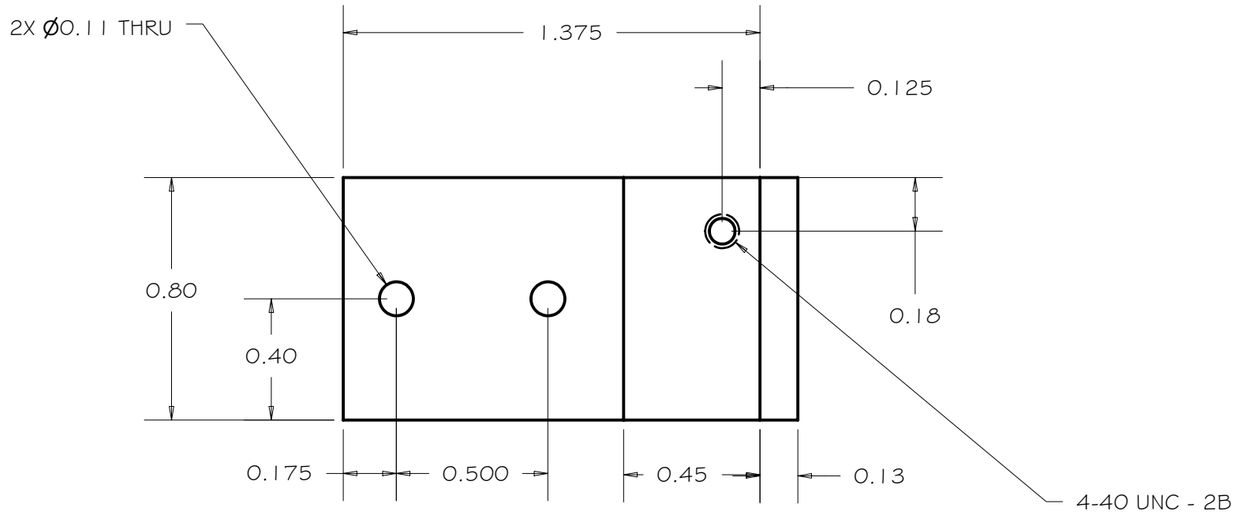
DRAWN	vernon	3/25/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	
QTY: 1		

Cassegrain ADC

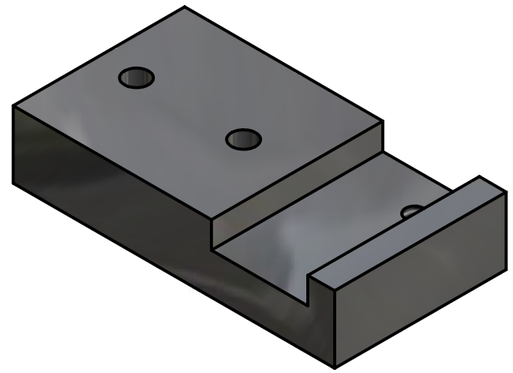
TITLE: 3 FIDUCAL MOUNT

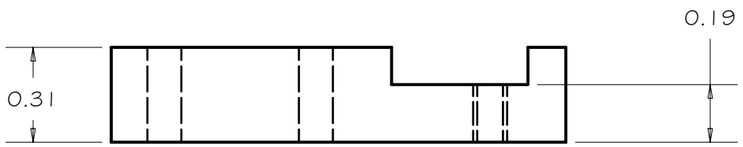
PROJECT CODE	DWG NO	REV
NEXT ASS'Y: A3017	A3014	A 1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 2 : 1





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: DELRIN, BLACK
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/25/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

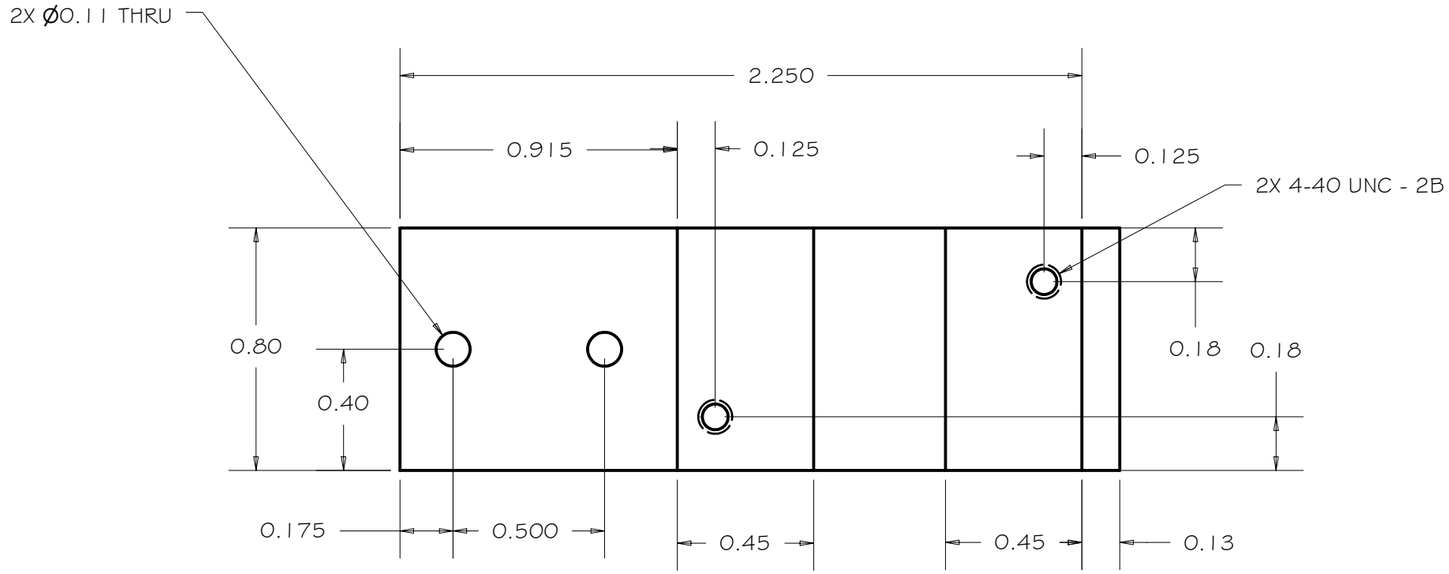
QTY: 1

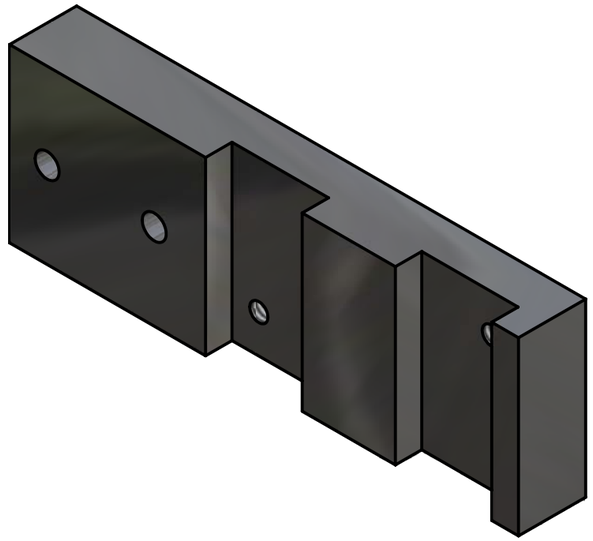
Cassegrain ADC

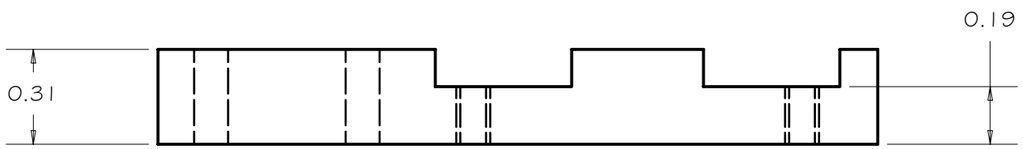
TITLE: 1 FIDUCAL MOUNT

PROJECT CODE:
NEXT ASS'Y: A3016
DWG NO: A3013
REV: A
1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION







SCALE 2 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: DELRIN, BLACK
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/25/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

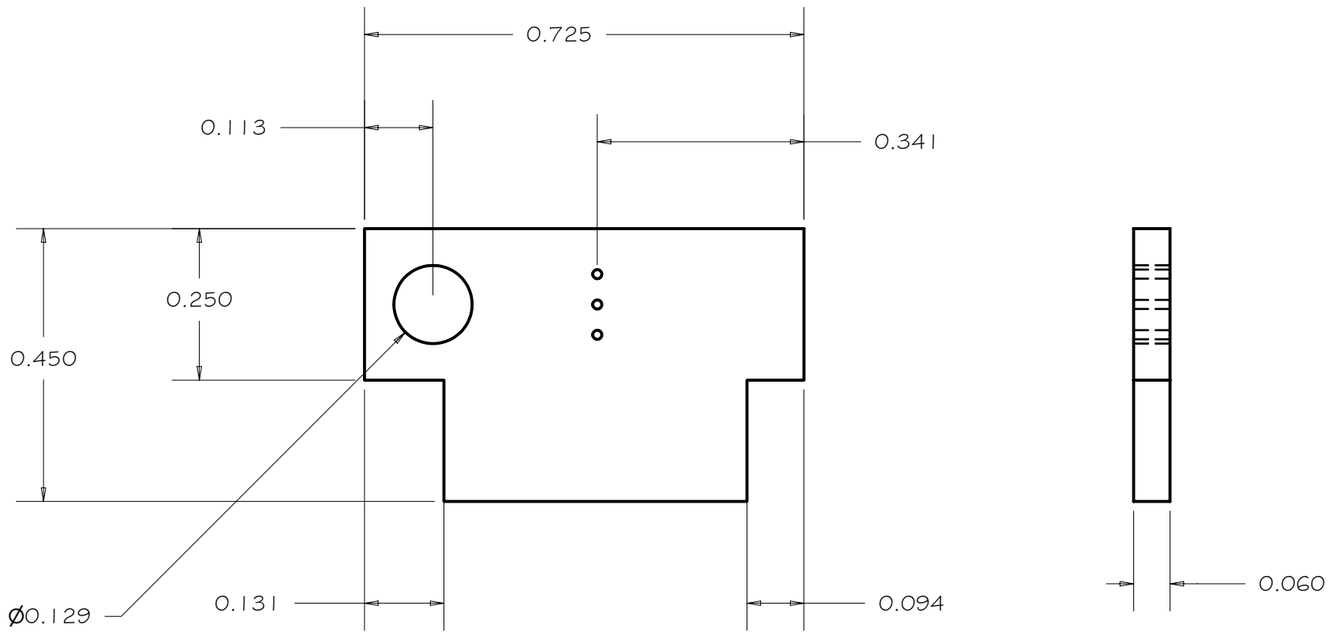
QTY: 1

Cassegrain ADC

TITLE: 2 FIDUCAL MOUNT

PROJECT CODE:
NEXT ASS'Y: A3015
DWG NO: A3012
REV: A
1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL | FINISH

LICK OBSERVATORY

DRAWN	vernon	3/25/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

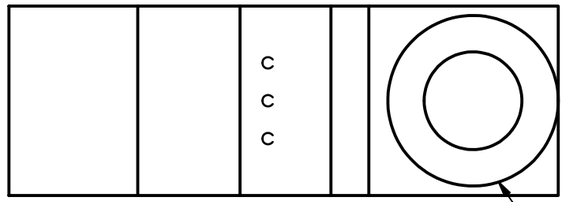
TITLE: FIDUCAL PC BOARD

PROJECT CODE | DWG NO: A3011 | REV: A

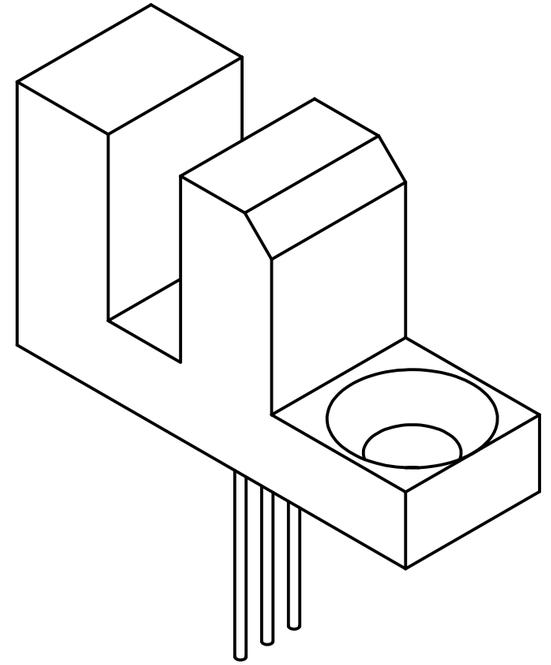
NEXT ASSY: A2015, A3016, A3017

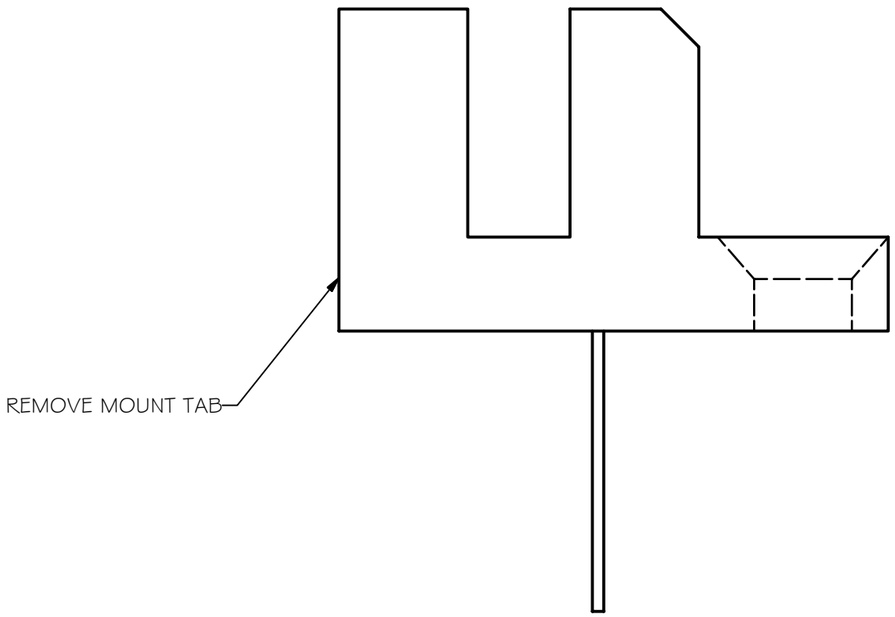
SHEET 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



COUNTERSINK HOLE





REMOVE MOUNT TAB

CHERRY VN1015

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL

FINISH

LICK OBSERVATORY

DRAWN	vernon	3/25/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

Cassegrain ADC

TITLE: CHERRY VN1015 MODIFIED

PROJECT CODE

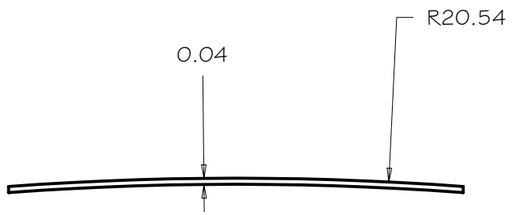
NEXT ASSY: A3015, A3016, A3017

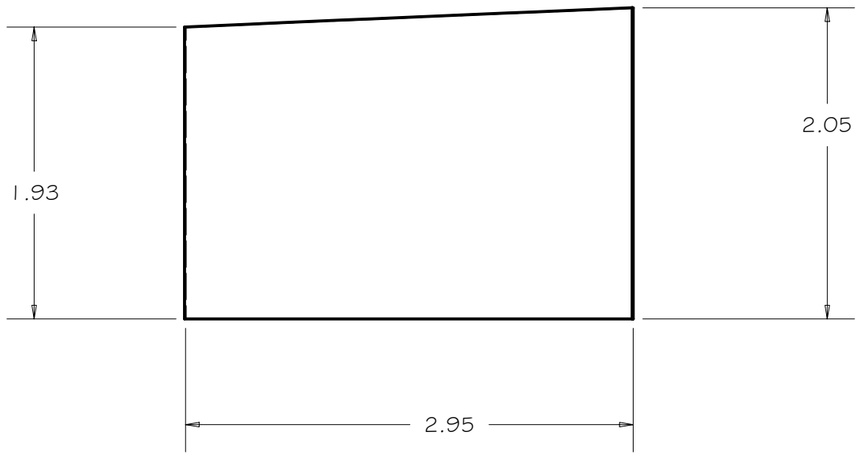
DWG NO: A3010

REV: A

1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: MYLAR
FINISH:

LICK OBSERVATORY

DRAWN: vernon 2/20/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

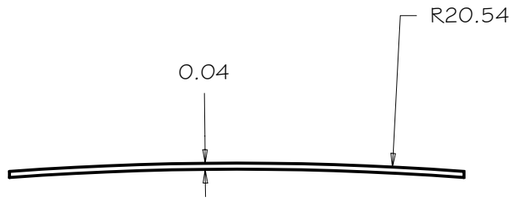
QTY: 1

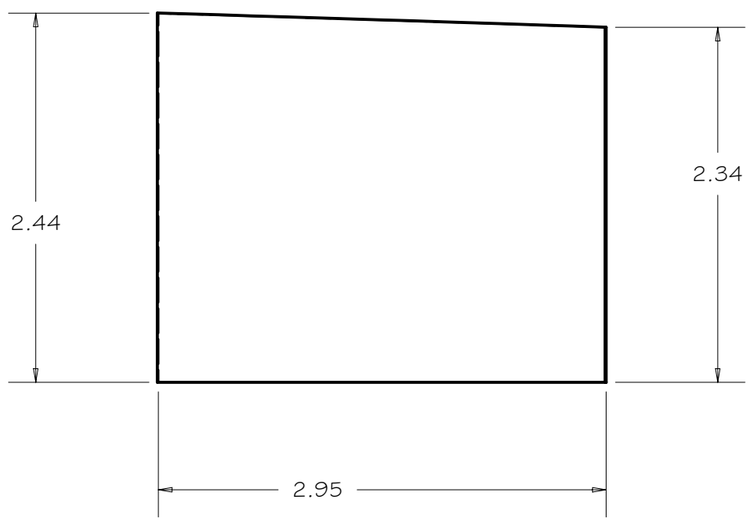
Cassegrain ADC

TITLE: RADIAL SPACER, FWD

PROJECT CODE:
NEXT ASS'Y: A2001
DWG NO: A2066
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: MYLAR
FINISH:

LICK OBSERVATORY

DRAWN	vernon	2/20/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

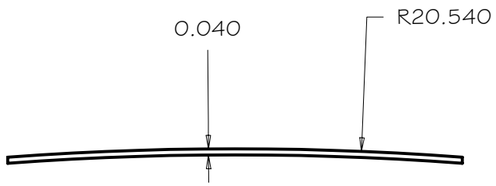
QTY: 1

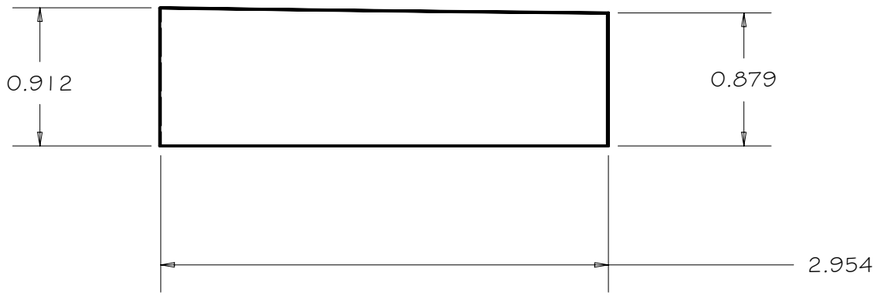
Cassegrain ADC

TITLE: RADIAL SPACER, FWD

PROJECT CODE:
NEXT ASS'Y: A2001
DWG NO: A2065
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION





TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: MYLAR
FINISH:

LICK OBSERVATORY

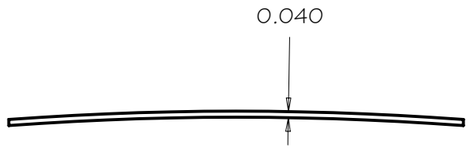
DRAWN: vernon 2/20/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon
QTY: 1

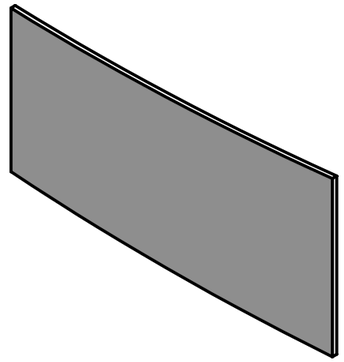
Cassegrain ADC

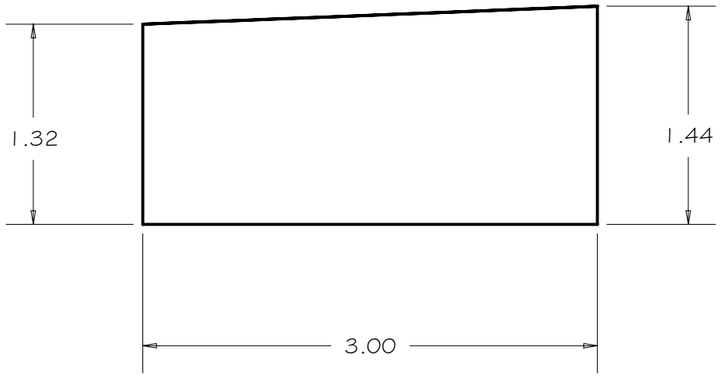
TITLE: RADIAL SPACER, FWD

PROJECT CODE:
NEXT ASS'Y: A2001
DWG NO: A2064
REV: A
1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION







TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: MYLAR
FINISH:

LICK OBSERVATORY

DRAWN	vernon	2/23/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

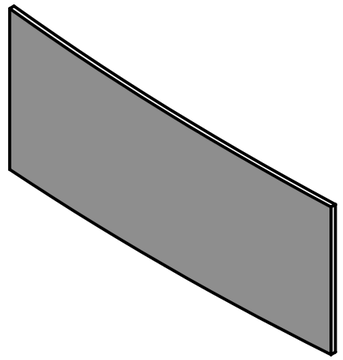
QTY: 1

Cassegrain ADC

TITLE: RADIAL SPACER, AFT

PROJECT CODE:
NEXT ASS'Y: A2002
DWG NO: A2063
REV: A
SHEET 1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: MYLAR
FINISH:

LICK OBSERVATORY

DRAWN: vernon 2/23/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

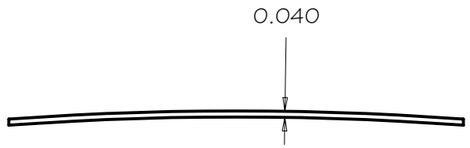
QTY: 1

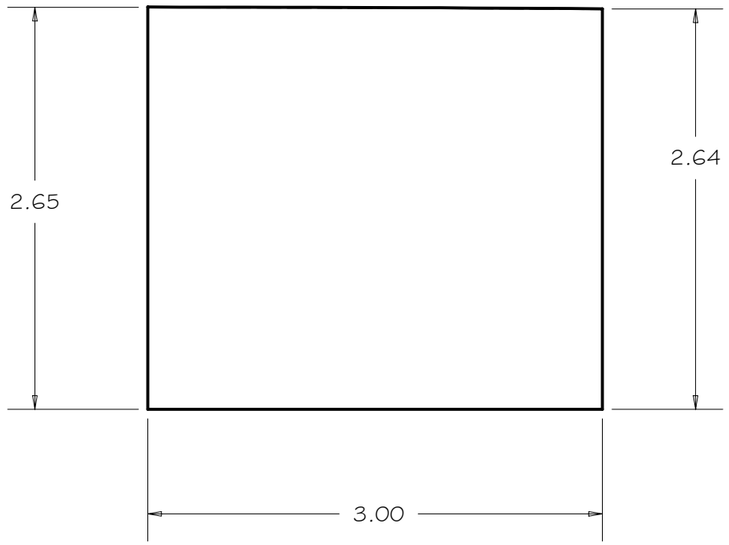
Cassegrain ADC

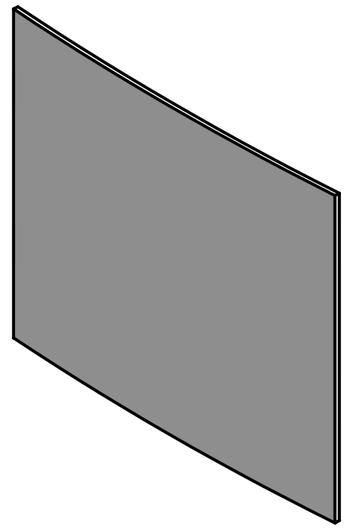
TITLE: RADIAL SPACER, AFT

PROJECT CODE:
NEXT ASS'Y: A2002
DWG NO: A2062
REV: A
1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION







TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: MYLAR
FINISH:

LICK OBSERVATORY

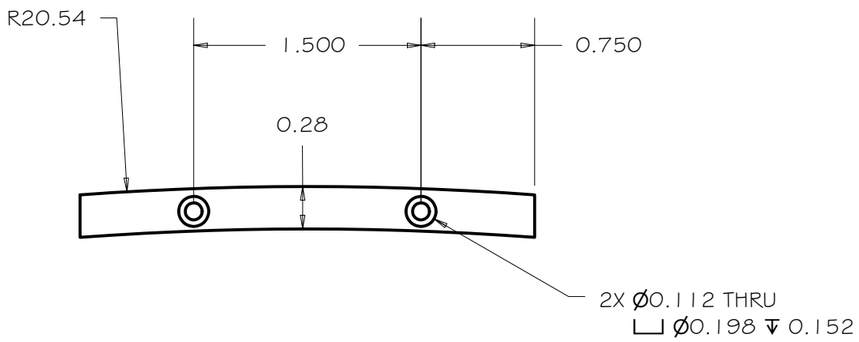
DRAWN: vernon 2/23/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon
QTY: 1

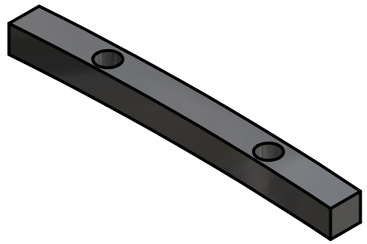
Cassegrain ADC

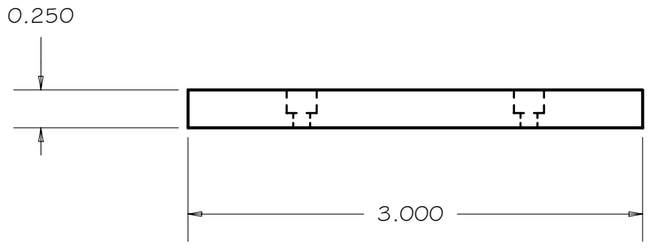
TITLE: RADIAL SPACER, AFT

PROJECT CODE:
NEXT ASS'Y: A2002
DWG NO: A2061
REV: A
1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION







SCALE 1 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: DELRIN, BLACK
FINISH:

LICK OBSERVATORY

QTY: 3

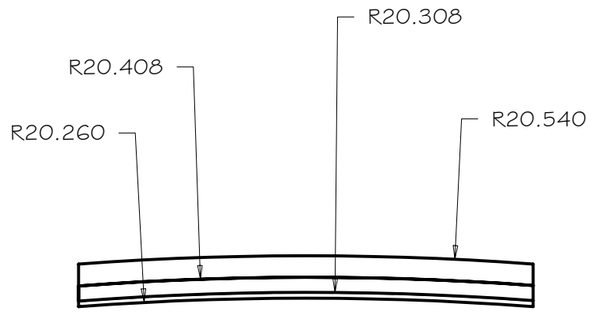
DRAWN: vernon 2/23/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

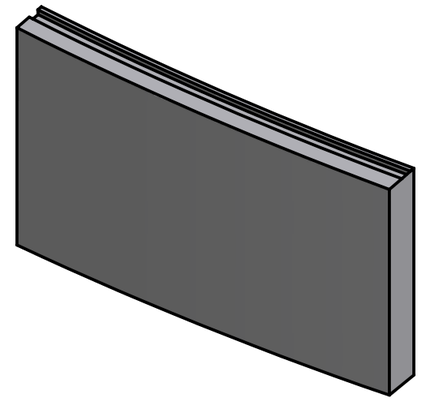
Cassegrain ADC

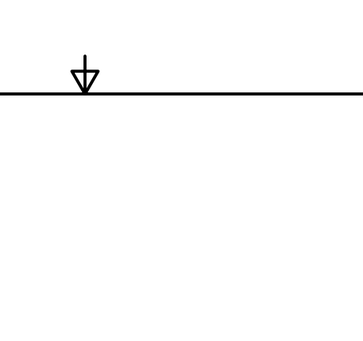
TITLE: AXIAL SSPACER, AFT

PROJECT CODE:
NEXT ASS'Y: A2002
DWG NO: A2060
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 2/20/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

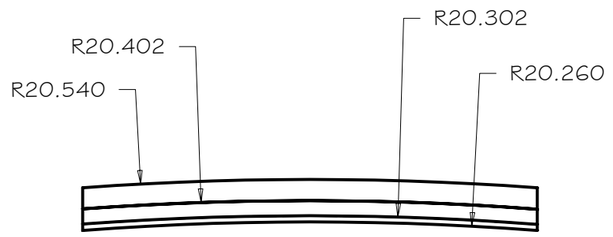
QTY: 1

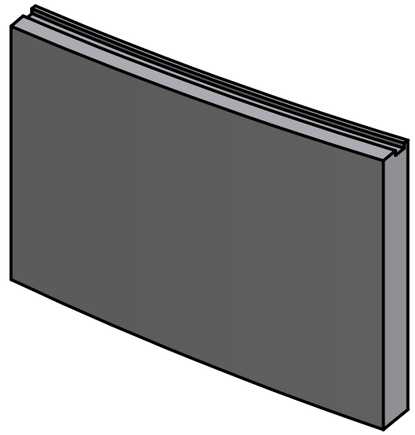
Cassegrain ADC

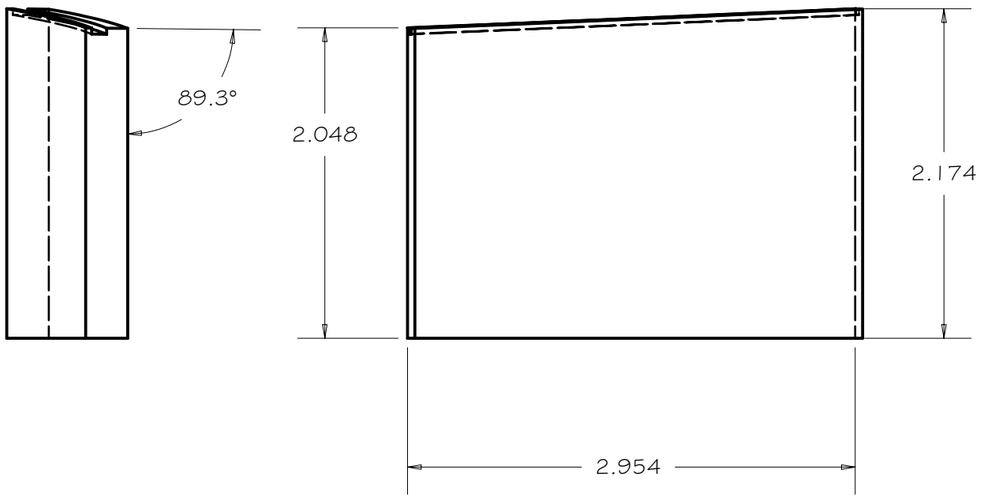
TITLE: AXIAL CLAMP, FWD

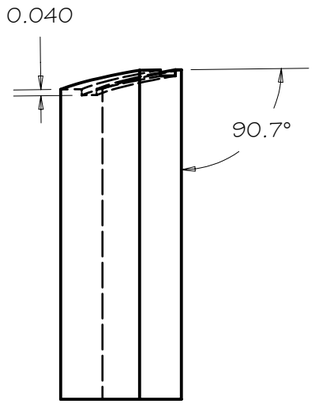
PROJECT CODE:
NEXT ASS'Y: A2001
DWG NO: A2055
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION









TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL	

LICK OBSERVATORY

DRAWN	vernon	2/20/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

QTY: 1

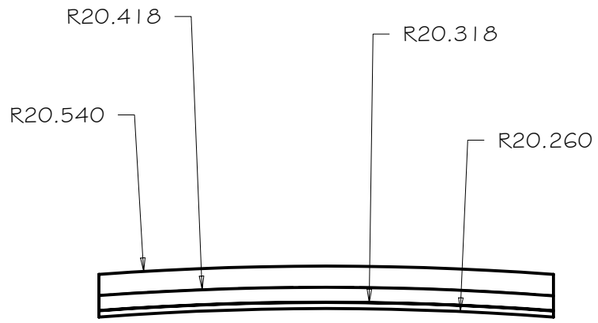
Cassegrain ADC

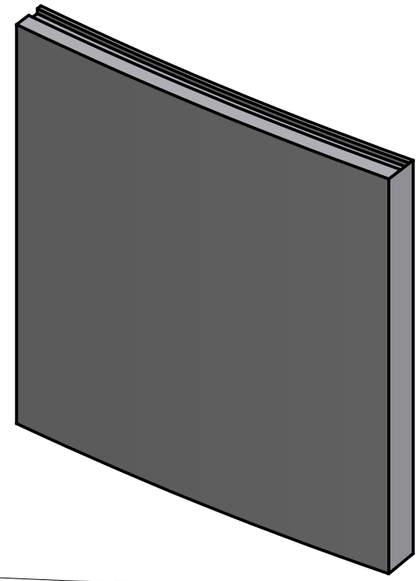
TITLE: AXIAL CLAMP, FWD

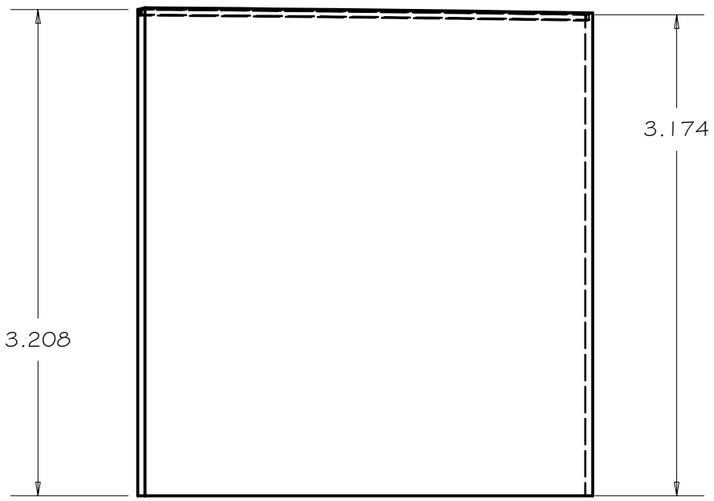
PROJECT CODE	DWG NO	REV
NEXT ASSY: N/A	A2054	A

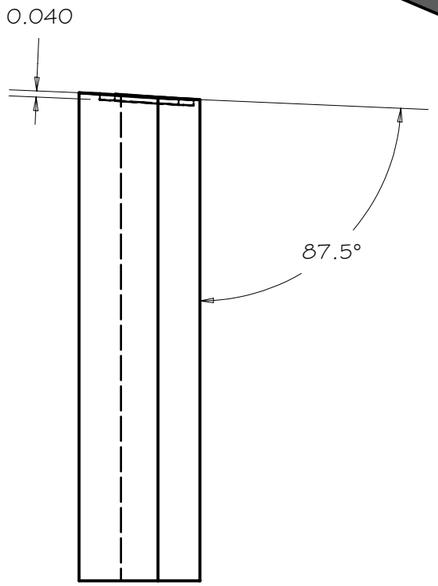
1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION









TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL	

LICK OBSERVATORY

DRAWN	vernon	2/20/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

QTY: 1

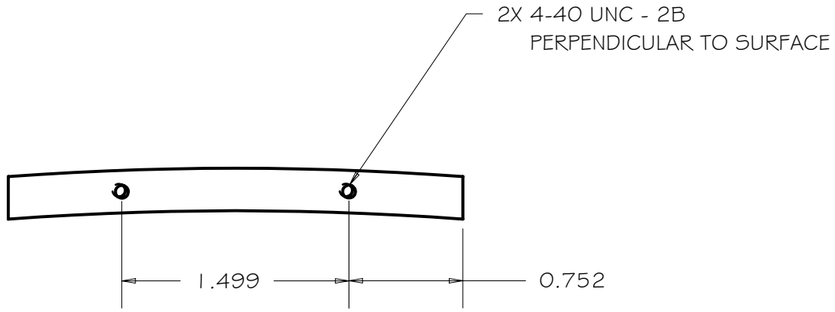
Cassegrain ADC

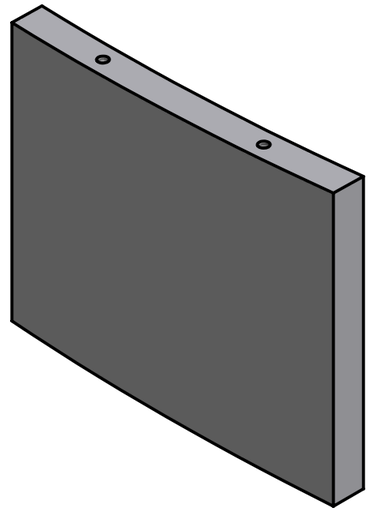
TITLE: AXIAL CLAMP, FWD

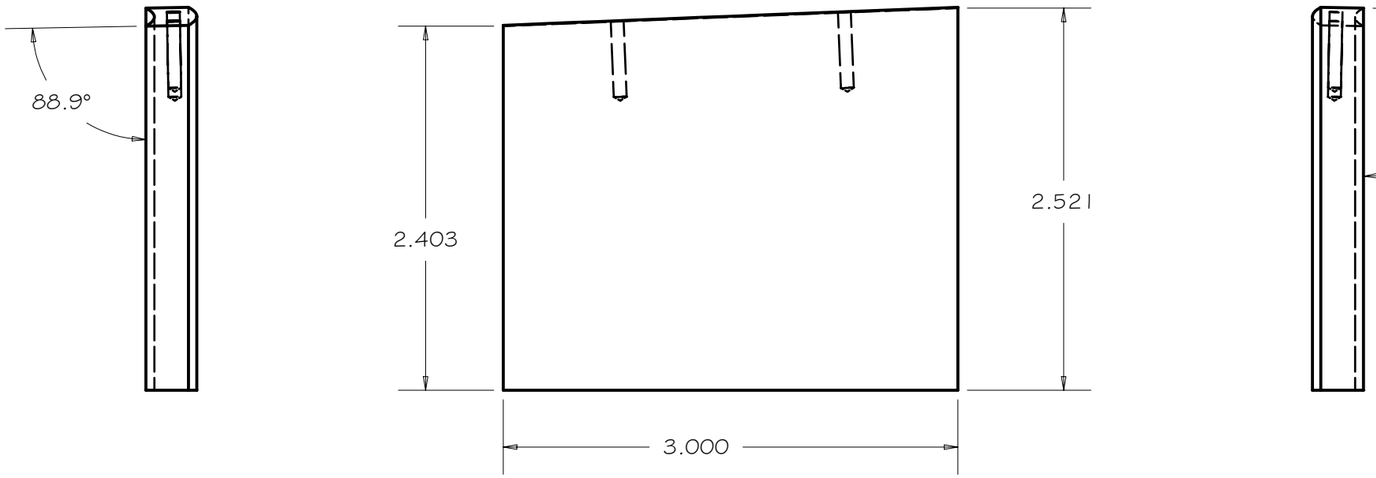
PROJECT CODE	DWG NO	REV
NEXT ASS'Y A2001	A2053	A

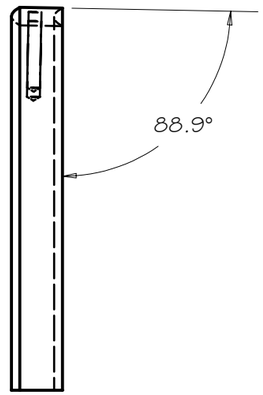
SHEET 1 / 1

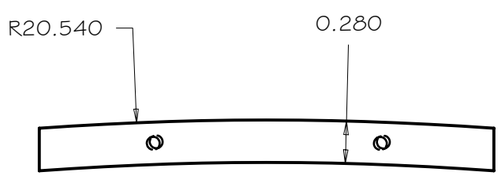
REV	DRWN	CHK'D	DATE	DESCRIPTION











SCALE 1 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 2/23/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

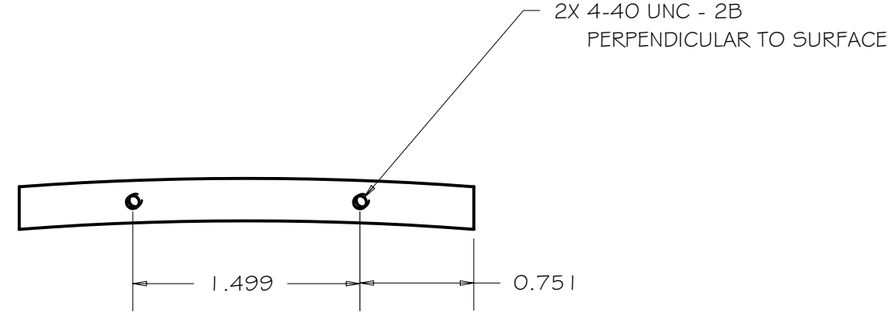
QTY: 1

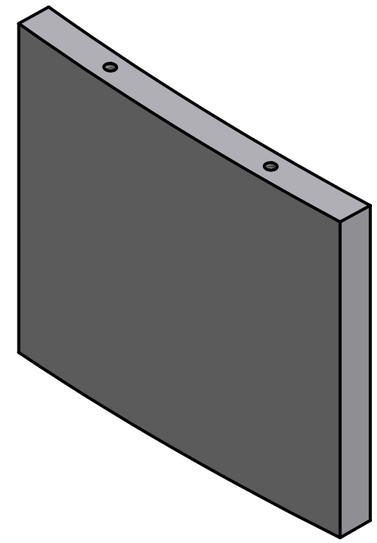
Cassegrain ADC

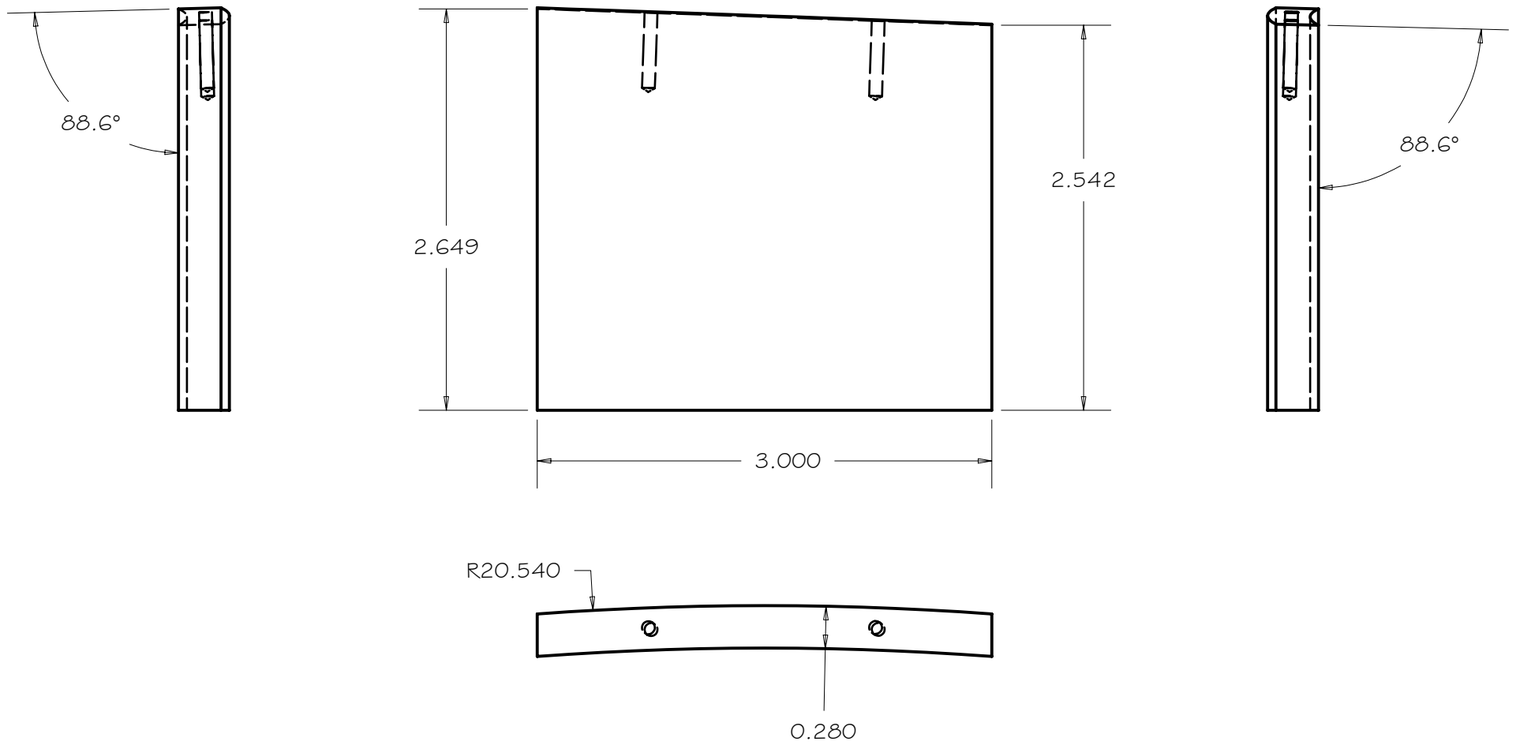
TITLE: AXIAL CLAMP, AFT

PROJECT CODE:
NEXT ASS'Y: A2002
DWG NO: A2052
REV: A
1 / 1

REV	DRWN	CHK'D	DATE	DESCRIPTION







TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32" 24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100" X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
STEEL	

LICK OBSERVATORY

DRAWN	vernon	2/23/2004
CHECKED		
DESIGNED	vernon	
ENGINEER	vernon	

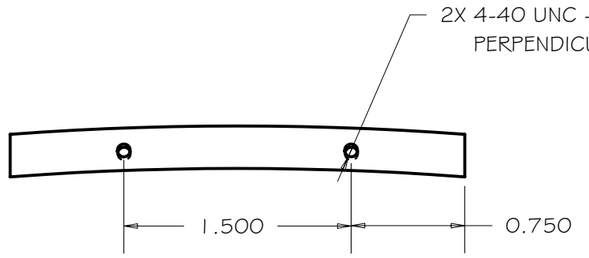
QTY: 1

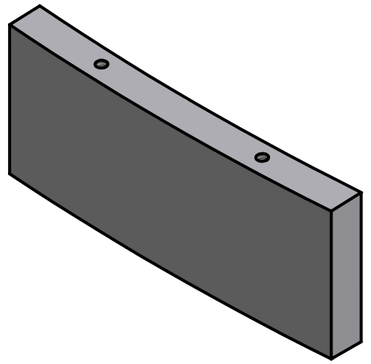
Cassegrain ADC

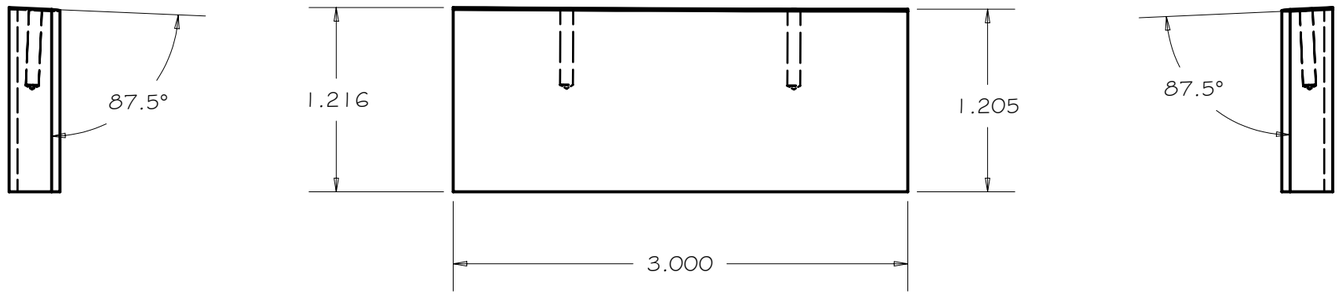
TITLE: AXIAL CLAMP, AFT

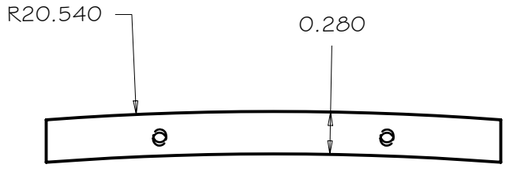
PROJECT CODE	DWG NO	REV
NEXT ASS'Y: A2002	A2051	A 1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION









TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 2/23/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

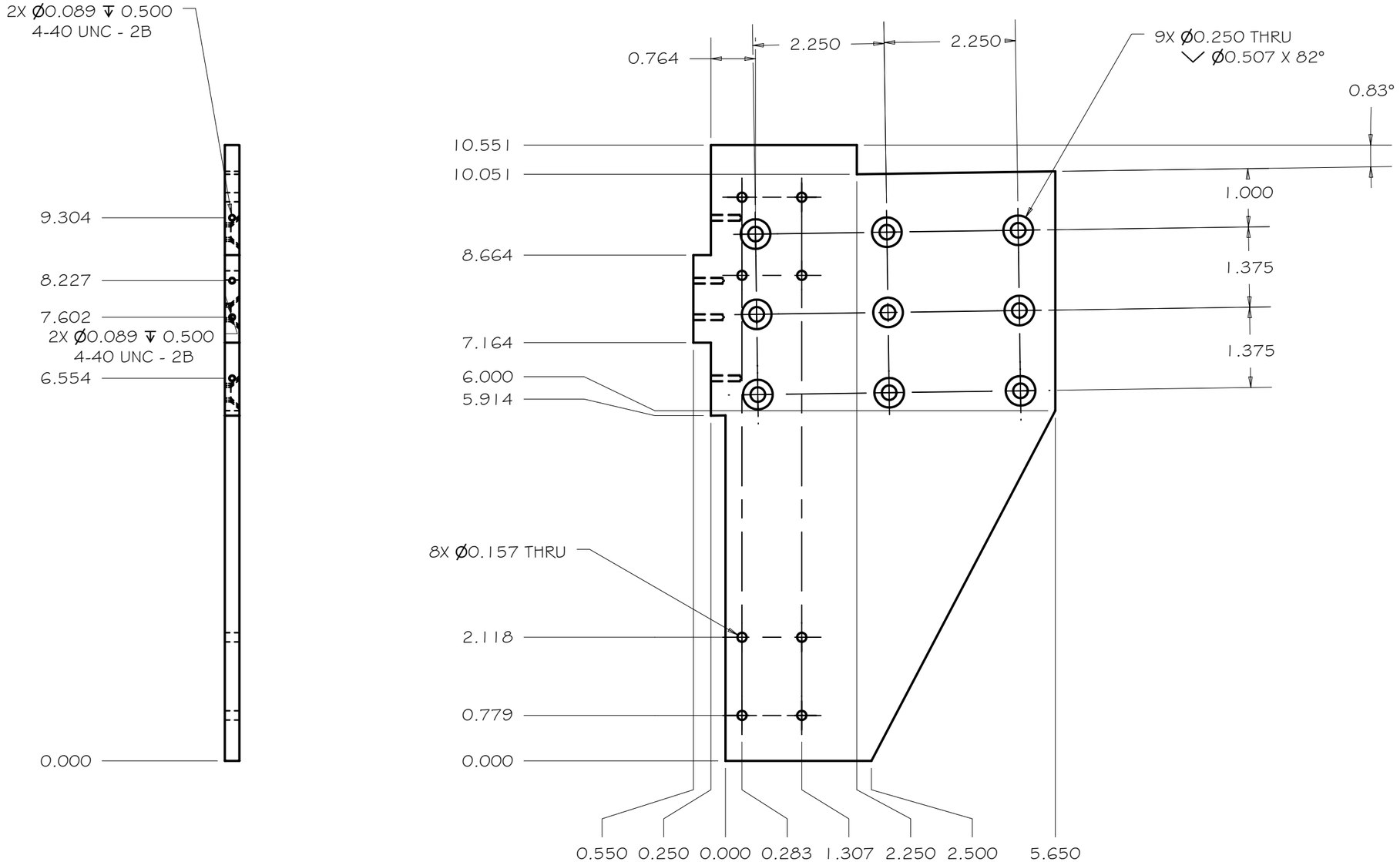
QRT: 1

Cassegrain ADC

TITLE: AXIAL CLAMP, AFT

PROJECT CODE:
NEXT ASS'Y: A2002
DWG NO: A2050
REV: A

REV	DRWN	CHK'D	DATE	DESCRIPTION



TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 2/20/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

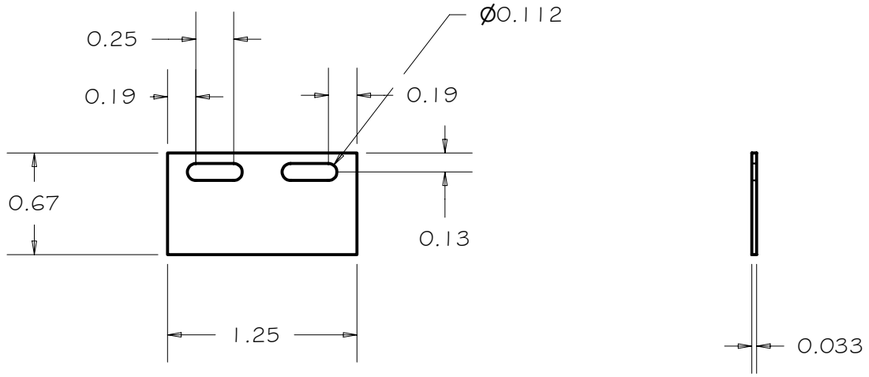
QTY: 2

Cassegrain ADC

TITLE: SLIDE MOUNT

PROJECT CODE:
NEXT ASS'Y: A2001, A2002
DWG NO: A2048
REV: A
1/1

REV	DRWN	CHK'D	DATE	DESCRIPTION



SCALE 1 : 1

TOLERANCES UNLESS OTHERWISE NOTED:
FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
24"+: ±1/16"
DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
X.XXX: ±0.0050" X.XXXX: ±0.0001"
ANGLES: ±0.5° FINISH: 125 MICRO INCHES
BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL: STEEL
FINISH:

LICK OBSERVATORY

DRAWN: vernon 3/25/2004
CHECKED:
DESIGNED: vernon
ENGINEER: vernon

QTY: 2

Cassegrain ADC

TITLE: FIDUCAL TAB, SHORT

PROJECT CODE:
NEXT ASS'Y: A2001, A2002
DWG NO: A2047
REV: A
1 / 1

ADC Drawing Tree 4/2/2004

				Qty	Rev	Used on
1	A0003	ADC, TRANSFER MODULE, JACK STAND		1	A	top
2	A0001	ADC ASSSEMBLY		1	A	top
3	A1000	BASE / DRIVE ASSSEMBLY		1	A	A0001
4	A1100	FRAME ASSEMBLY		1	A	A1000
5	A1110	SUPPORT WELDMENT, LEFT		1	A	A1100
6	A1111	SUPPORT TUBE, LEFT		1	A	A1110
7	A1112	GUSSETT, UPPER		1	A	A1110
8	A1113	GUSSETT, LOWER		1	A	A1110
9	A1114	PICKUP TUBE		1	A	A1110
10	A1115	ROLLER MOUNT		1	A	A1110
11	A1116	RAIL BASE		1	A	A1110
12	A1117	CLADDING STRIP 1		1	A	A1110
13	A1118	CLADDING STRIP 2		1	A	A1110
14	A1119	CLADDING STRIP 3		1	A	A1110
15	A1120	CLADDING STRIP 4		1	A	A1110
16	A1121	CLADDING STRIP 5		1	A	A1110
17	A1122	PICKUP HOLE		1	A	A1110
18	A1123	TUBE END CAP		2	A	A1110
19	A1130	SUPPORT WELDMENT, RIGHT		1	A	A1100
20	A1112	GUSSETT, UPPER		1	A	A1130
21	A1113	GUSSETT, LOWER		1	A	A1130
22	A1114	PICKUP TUBE		1	A	A1130
23	A1115	ROLLER MOUNT		2	A	A1130
24	A1116	RAIL BASE		1	A	A1130
25	A1117	CLADDING STRIP 1		1	A	A1130
26	A1118	CLADDING STRIP 2		1	A	A1130
27	A1119	CLADDING STRIP 3		1	A	A1130
28	A1120	CLADDING STRIP 4		1	A	A1130
29	A1121	CLADDING STRIP 5		1	A	A1130
30	A1122	PICKUP HOLE		1	A	A1130
31	A1123	TUBE END CAP		2	A	A1130
32	A1131	SUPPORT TUBE, RIGHT		1	A	A1130
33	A1150	FRAME WELDMENT, LOWER		1	A	A1100
34	A1151	BASE TUBE 1		2	A	A1150
35	A1152	BASE TUBE 2		2	A	A1150
36	A1153	BASE TUBE 3		1	A	A1150
37	A1154	BASE TUBE 4		2	A	A1150
38	A1155	HARDPOINT MOUNT SUPPORT		1	A	A1150
39	A1156	HARDPOINT MOUNT PAD		1	A	A1150
40	A1160	FRAME WELDMENT, UPPER		1	A	A1100
41	A1161	BASE TUBE 5		2	A	A1160
42	A1162	BASE TUBE 6		2	A	A1160
43	A1163	BASE TUBE 7		2	A	A1160
44	A1164	BASE TUBE 8		1	A	A1160
45	A1165	HARDPOINT MOUNT SUPPORT		2	A	A1160
46	A1156	HARDPOINT MOUNT PAD		2	A	A1160
47	A1170	RAIL SPACER		2	A	A1100
48	A1171	GUSSETT, FRAME		2	A	A1100

49		A1172	RING, FWD	1	A	A1100
50		A1173	RING, AFT	1	A	A1100
51		A1528	BALL SCREW SHIELD, FWD	1	A	A1100
52		A1529	BALL SCREW SHIELD, AFT	1	A	A1100
53		A1530	FRAME STIFFENER	2	A	A1100
54		A1531	STIFFENER TUBE	1	A	A1530
55		A1532	STIFFENER END	1	A	A1530
56		A1533	STIFFENER END	1	A	A1530
57		A1534	STIFFENER BAR	1	A	A1100
58		THK SHS 20 RAIL		4	A	A1100
59	A1200	BALL SCREW ASSEMBLY		1	A	A1000
60		A1210	THK 2505-5 SCREW, FWD	1	A	A1200
61		A1211	THK 2505-5 SCREW, AFT	1	A	A1200
62		A1212	BEARING HOUSING	1	A	A1200
63		A1213	BEARING CAP	2	A	A1200
64		A1214	BEARING HOUSING, AFT	1	A	A1200
65		A1216	SPACER	1	A	A1200
66		A1217	SPACER	1	A	A1200
67		A1218	SLEEVE	2	A	A1200
68		A1219	PIC PULLEY, BALL SCREW	1	A	A1200
69		SKF 6203		6	A	A1200
70		SKF N-03		2	A	A1200
71		SKF W-03		2	A	A1200
72		WAVE SPRING		4	A	A1200
73	A1215	BALL SCREW CAP, AFT		1	A	A1000
74	A1220	BALL SCREW CAP, FWD		1	A	A1000
75	A1300	MOTOR / GEARBOX ASSEMBLY		1	A	A1000
76		A1310	PULLEY HOUSING	1	A	A1300
77		A1311	HOUSING COVER	1	A	A1300
78		A1312	SHAFT, MOTOR PULLEY	1	A	A1300
79		A1313	PIC PULLEY, MOTOR	1	A	A1300
80		A1314	BEARING RETAINER	1	A	A1300
81		GEARBOX		1	A	A1300
82		MOTOR		1	A	A1300
83		SKF 16005		2	A	A1300
84	A1513	CLADDING FRAME, FWD UPPER		1	A	A1000
85		A1511	CLADDING PLATE, FWD UPPER	1	A	A1513
86		A1512	CLADDING RING, FWD UPPER	1	A	A1513
87	A1516	CLADDING FRAME, FWD LOWER		1	A	A1000
88		A1514	CLADDING PLATE, FWD LOWER	1	A	A1516
89		A1515	CLADDING RING, FWD LOWER	1	A	A1516
90	A1519	CLADDING FRAME, AFT UPPER		1	A	A1000
91		A1517	CLADDING PLATE, AFT UPPER	1	A	A1519
92		A1518	CLADDING RING, AFT UPPER	1	A	A1519
93	A1523	CLADDING FRAME, AFT UPPER		1	A	A1000
94	A1526	CLADDING FRAME, FWD LOWER		1	A	A1000
95	A1527	CLADDING, MOTOR		1	A	A1000
96	A1535	CLADDING FRAME, HARDPOINT		1	A	A1000
97	A1536	CLADDING FRAME, HARDPOINT		1	A	A1000
98	ENCODER AGILENT HEDL-5540#E06			1	A	A1000
99	BELT	PIC BELT EPS00070G 15mN		1	A	A1000
100	A1501	FRONT CLADDING UPPER		1	A	A0001

101	A1502	AFT CLADDING UPPER	1	A	A0001
102	A1503	FWD CLADDING LOWER	1	A	A0001
103	A1504	AFT CLADDING LOWER	1	A	A0001
104	A1505	AFT CLADDING LOWER	1	A	A0001
105	A1506	FWD CLADDING LOWER	1	A	A0001
106	A1507	FWD CLADDING UPPER	1	A	A0001
107	A1508	AFT CLADDING UPPER	1	A	A0001
108	A1510	COVER ASSEMPLY, FWD	2	A	A0001
109	A1537	COVER, PLATE	1	A	A1510
110	A1538	COVER STIFFENER, LONG	1	A	A1510
111	A1539	COVER STIFFENER, SHORT	2	A	A1510
112	DRAWER PULL		2	A	A1510
113	A2001	CELL ASSEMBLY, FWD	1	A	A0001
114	A2012	OPTIC ASSEMBLY	1	A	A2001
115	A2010	ADC OPTIC	1	B	A2012
116	A2014	INDEX, OPTIC	1	B	A2012
117	A2020	CELL WELDMENT, FWD	1	A	A2001
118	A2015	CYLINDER, OUTER	1	A	A2020
119	A2016	CYLINDER, OUTER	1	A	A2020
120	A2021	STIFFENER	1	A	A2020
121	A2022	SIDE BLOCK, FWD	2	A	A2020
122	A2023	LOWER CYLINDER,FWD	1	A	A2020
123	A2024	UPPER CYLINDER,FWD	1	A	A2020
124	A2025	FLANGE,FWD	1	A	A2020
125	A2026	FLANGE, DRIVE, FWD	1	A	A2020
126	A2027	FLANGE, THIN, FWD	1	A	A2020
127	A2028	FLANGE, THIN, FWD	2	A	A2020
128	A2040	O-RING SECTION	6	A	A2001
129	A2042	SLIDE MOUNT	1	A	A2001
130	A2044	RETAINER, OPTIC, FWD	3	A	A2001
131	A2045	AXIAL SPACER, FWD	3	A	A2001
132	A2046	FIDUCAL TAB, LONG	1	A	A2001
133	A2047	FIDUCAL TAB, SHORT	1	A	A2001
134	A2048	SLIDE MOUNT	1	A	A2001
135	A2053	AXIAL CLAMP	1	A	A2001
136	A2054	AXIAL CLAMP	1	A	A2001
137	A2055	AXIAL CLAMP	1	A	A2001
138	A2064	RADIAL SPACER	1	A	A2001
139	A2065	RADIAL SPACER	1	A	A2001
140	A2066	RADIAL SPACER	1	A	A2001
141	Ball Nut	THK BNF-2505-5	1	A	A2001
142	Ball Slide	THK SHS-20-V Slide	4	A	A2001
143	A2002	CELL ASSEMBLY, AFT	1	A	A0001
144	A2012	ADC OPTIC	1	A	A2002
145	A2010	ADC OPTIC	1	B	A2012
146	A2014	INDEX, OPTIC	1	B	A2012
147	A2030	CELL WELDMENT, AFT	1	A	A2002
148	A2029	CYLINDER, OUTER	1	A	A2030
149	A2031	CYLINDER, OUTER	1	A	A2030
150	A2032	SIDE BLOCK, AFT	2	A	A2030
151	A2033	LOWER CYLINDER, AFT	1	A	A2030
152	A2034	UPPER CYLINDER, AFT	1	A	A2030

153		A2035	FLANGE, LOWER, AFT	1	A	A2030
154		A2036	FLANGE, DRIVE, AFT	1	A	A2030
155		A2037	FLANGE, SHORT	2	A	A2030
156		A2038	FLANGE, THIN	1	A	A2030
157		A2039	STIFFENER, AFT	1	A	A2030
158		A2043	AXIAL CLAMP BRACKET, AFT	2	A	A2030
159	A2040		O-RING SECTION	3	A	A2030
160	A2041		RETINAER, OPTIC, AFT	3	A	A2002
161	A2042		SLIDE MOUNT	1	A	A2002
162	A2046		FIDUCAL TAB, LONG	1	A	A2002
163	A2047		FIDUCAL TAB, SHORT	1	A	A2002
164	A2048		SLIDE MOUNT	1	A	A2002
165	A2050		AXIAL CLAMP	1	A	A2002
166	A2051		AXIAL CLAMP	1	A	A2002
167	A2052		AXIAL CLAMP	1	A	A2002
168	A2060		AXIAL SPACER	3	A	A2002
169	A2061		RADIAL SPACER	1	A	A2002
170	A2062		RADIAL SPACER	1	A	A2002
171	A2063		RADIAL SPACER	1	A	A2002
172	Ball Nut		THK BNF-2505-5	1	A	A2002
173	Ball Slide		THK SHS-20-V Slide	4	A	A2002
174	A3015		FIDUCAL ASSEMBLY, DOUBLE	1	A	A0001
175	A3010		CHERRY VN1015 MODIFIED	2	A	A3015
176	A3011		FIDUCAL PC BOARD	2	A	A3015
177	A3012		2 FIDUCAL MOUNT	1	A	A3015
178	A3016		FIDUCAL ASSEMBLY, SINGLE	1	A	A0001
179	A3010		CHERRY VN1015 MODIFIED	1	A	A3016
180	A3011		FIDUCAL PC BOARD	1	A	A3016
181	A3013		1 FIDUCAL MOUNT	1	A	A3016
182	A3017		FIDUCAL ASSEMBLY, TRIPLE	1	A	A0001
183	A3010		CHERRY VN1015 MODIFIED	3	A	A3017
184	A3011		FIDUCAL PC BOARD	3	A	A3017
185	A3014		3 FIDUCAL MOUNT	1	A	A3017
186	A3019		FIDUCAL ASSEMBLY, WIDE DOUBLE	1	A	A0001
187	A3010		CHERRY VN1015 MODIFIED	2	A	A3019
188	A3011		FIDUCAL PC BOARD	2	A	A3019
189	A3018		2 WIDE FIDUCAL MOUNT	1	A	A3019
190	A4001		HARDPOINT INSTRUMENT SIDE	3	A	A0001
191	A5001		JACK STAND	1	A	A0003
192	A5010		BASE WELDMENT	1	A	A5001
193		A5011	BEAM, CROSS	1	A	A5010
194		A5012	BEAM, UPRIGHT	2	A	A5010
195		A5013	BEAM, DIAGONAL	1	A	A5010
196		A5014	FLANGE	3	A	A5010
197	A5020		PIVOT WELDMENT	1	A	A5001
198		A5021	BEAM, CROSS	1	A	A5020
199		A5022	BEAM, UPRIGHT	2	A	A5020
200		A5023	FORK	2	A	A5020
201	A5030		ACME SCREW ASSEMBLY	1	A	A5001
202		A5031	ACME SCREW	1	A	A5030
203		A5032	ACME HANDLE	1	A	A5030
204		SKF GX 20 F	SPHERICAL THRUST BEARING	1	A	A5030

205	A5041	BUMPER	2	A	A5001
206	A5043	PIVOT MOUNT	2	A	A5001
207	A5044	PIVOT CLAMP	2	A	A5001
208	A5045	ACME PIVOT	1	A	A5001
209	A5046	BEARING MOUNT	1	A	A5001
210	A5047	HINGE	2	A	A5001
211	DOWEL PIN		2	A	A5001
212	SHOULDER BOLT		2	A	A5001