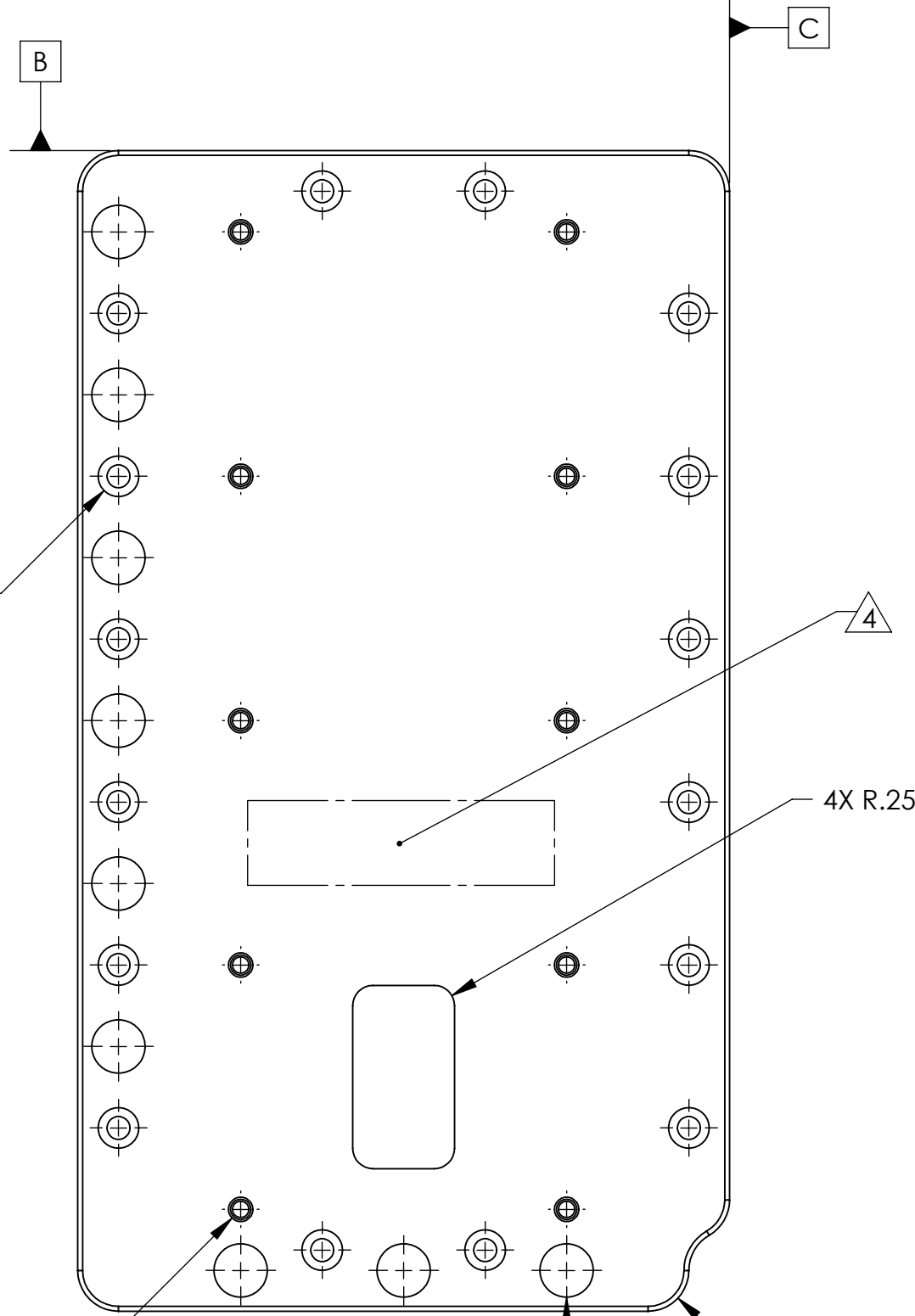
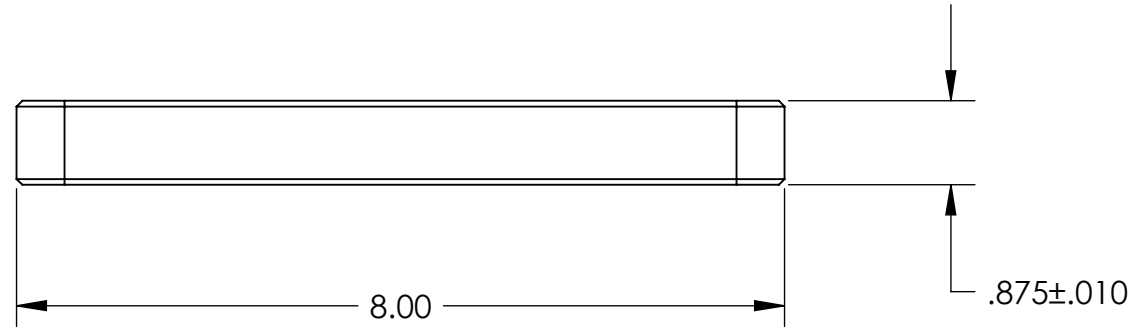


REVISION HISTORY				
REV	DATE	ECO	APPROVAL	DESCRIPTION
V1	22 Apr 2009		A. Stein	RELEASE FOR ADV LIGO



16X ϕ .281 THRU ALL
 \square ϕ .500 ∇ .30
 \sphericalangle ϕ .32 X 82°, FAR SIDE
 \oplus ϕ .005 (M) A B C

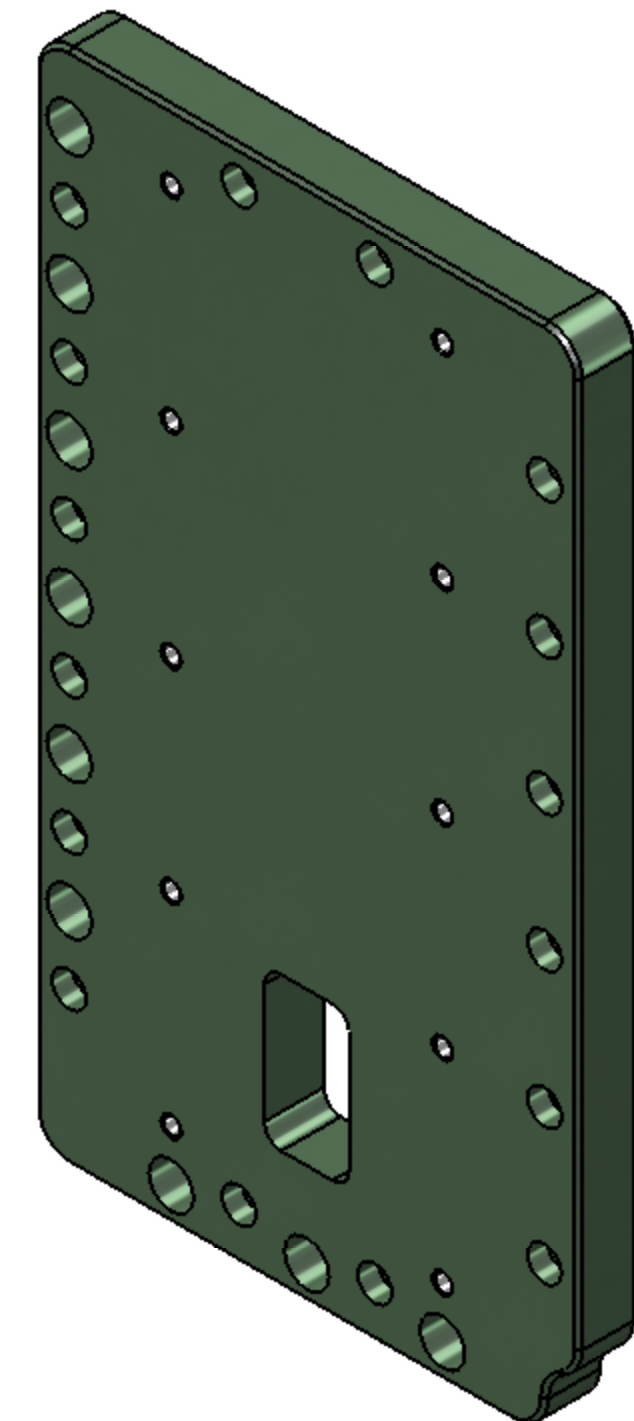
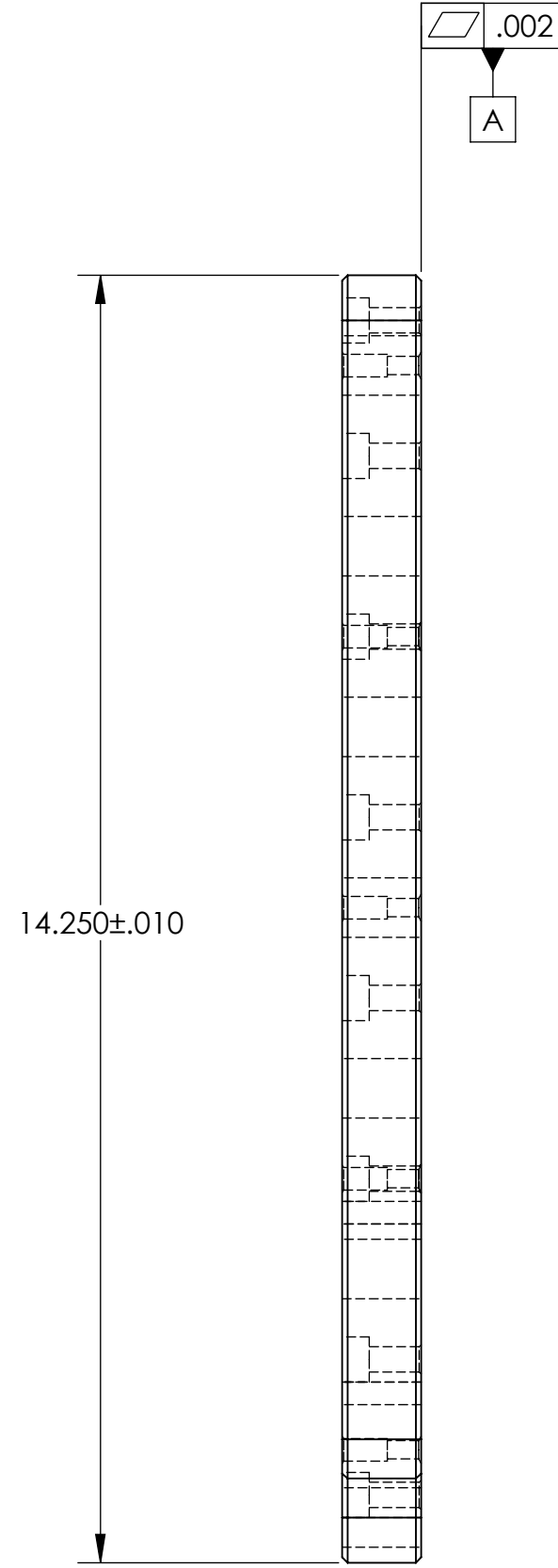
10X ϕ .201 THRU ALL
 1/4-20 UNC ∇ .50
 \sphericalangle ϕ .30 X 120°, BOTH SIDES
 \oplus ϕ .03 A B C

9X ϕ .656 THRU ALL
 \oplus ϕ .03 (M) A B C

4X R.25

6X R.50

.06 X 45° CHAMFER
 ALL AROUND
 BOTH SIDES



- MANUFACTURING NOTES:
- 1) MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. ABRASIVE REMOVAL TECHNIQUES (OTHER THAN DRESSED BLANCHARD GRINDING) ARE NOT ACCEPTABLE.
 - 2) ALL MACHINING FLUIDS MUST BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE, AND SILICONE, SUCH AS CINCINNATI MILACRON CIMTECH 410.
 - 3) THOROUGHLY CLEAN PART TO REMOVE ALL OIL, GREASE, DIRT, AND CHIPS.
 - 4) WHERE INDICATED, MECHANICALLY SCRIBE, STAMP, OR ENGRAVE THE FOLLOWING INFORMATION AS SHOWN BELOW: **PART NUMBER-REVISION** (AND **TYPE** IF INDICATED), FOLLOWED ON THE NEXT LINE WITH A UNIQUE 3-DIGIT **SERIAL NUMBER** STARTING AT 001 FOR THE FIRST PART AND INCREMENTING THEREAFTER. USE 0.38" TALL CHARACTERS UNLESS PART SIZE DICTATES SMALLER.

D0900277-V1
 S/N - ###
 POST-MANUFACTURING NOTES:
 P1) CLEAN TO LIGO STANDARDS, CLASS A (PER E0900047 AND E960022).

APPROVALS		DATE	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DECIMAL TOLERANCES: .XX ±.015 .XXX ±.005 ANG TOL: ± 1" SURFACE ROUGHNESS: $\sqrt{32}$ REMOVE ALL SHARP EDGES. LEAVE .005 X 45° MIN CHAMFER, OR .005 MIN RADIUS. THIS PRINT & THE EMBEDDED CAD MODEL ARE THE DOCUMENTATION OF RECORD, UNLESS OTHERWISE SPECIFIED. ALL DIMENSIONS IN THE MODEL ARE BASIC, WITH TOLERANCES GIVEN BY: 	CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
ENGINEERING: A. Stein		4/22/2009		DESCRIPTION: Cover, Outer Wall, Horiz Act and Sens	P/N: D0900277
QUALITY: -		4/22/2009	CAD FILE NAME: D0900277_Cover-Outer_Wall-Horiz_Act_and_Sens		
MATERIAL: 6061-T6 Al		PROJECT: HAM ISI, Advanced LIGO			REV
FINISH: None		SIZE SCALE: 1:2		DRAWN BY: Sam Barnum	
MASS: 9.0 lbs		SIZE SHEET 1 OF 1		DATE PRINTED: 5/1/2009	
				REV V1	