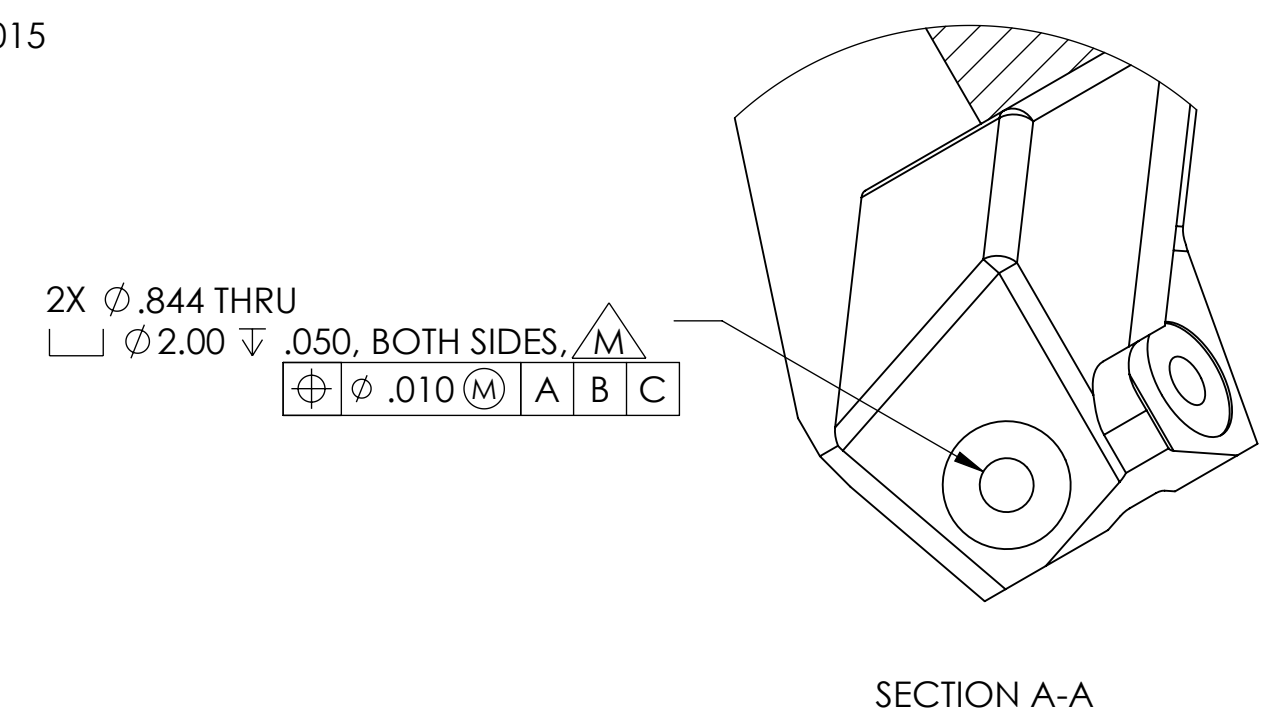
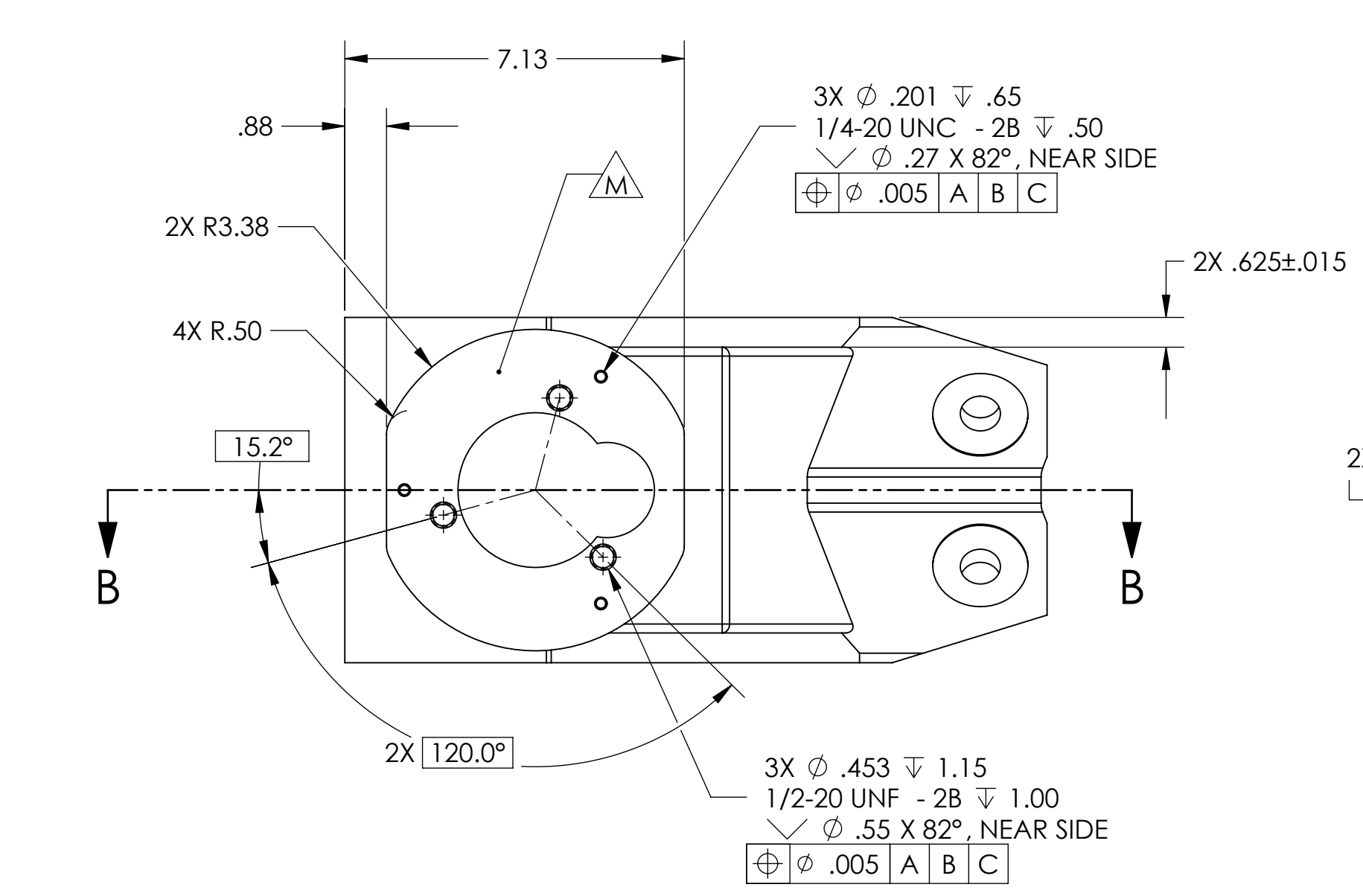
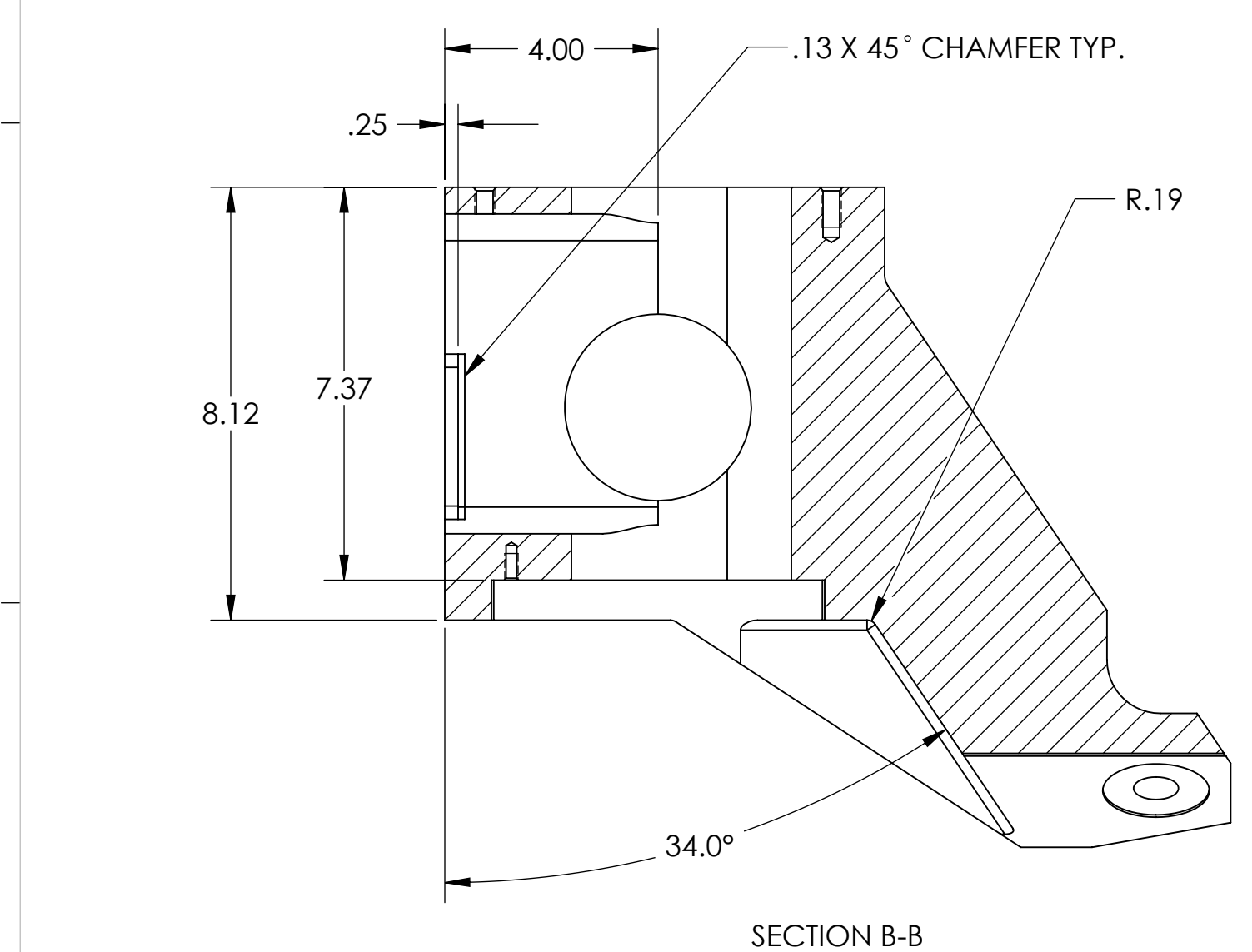
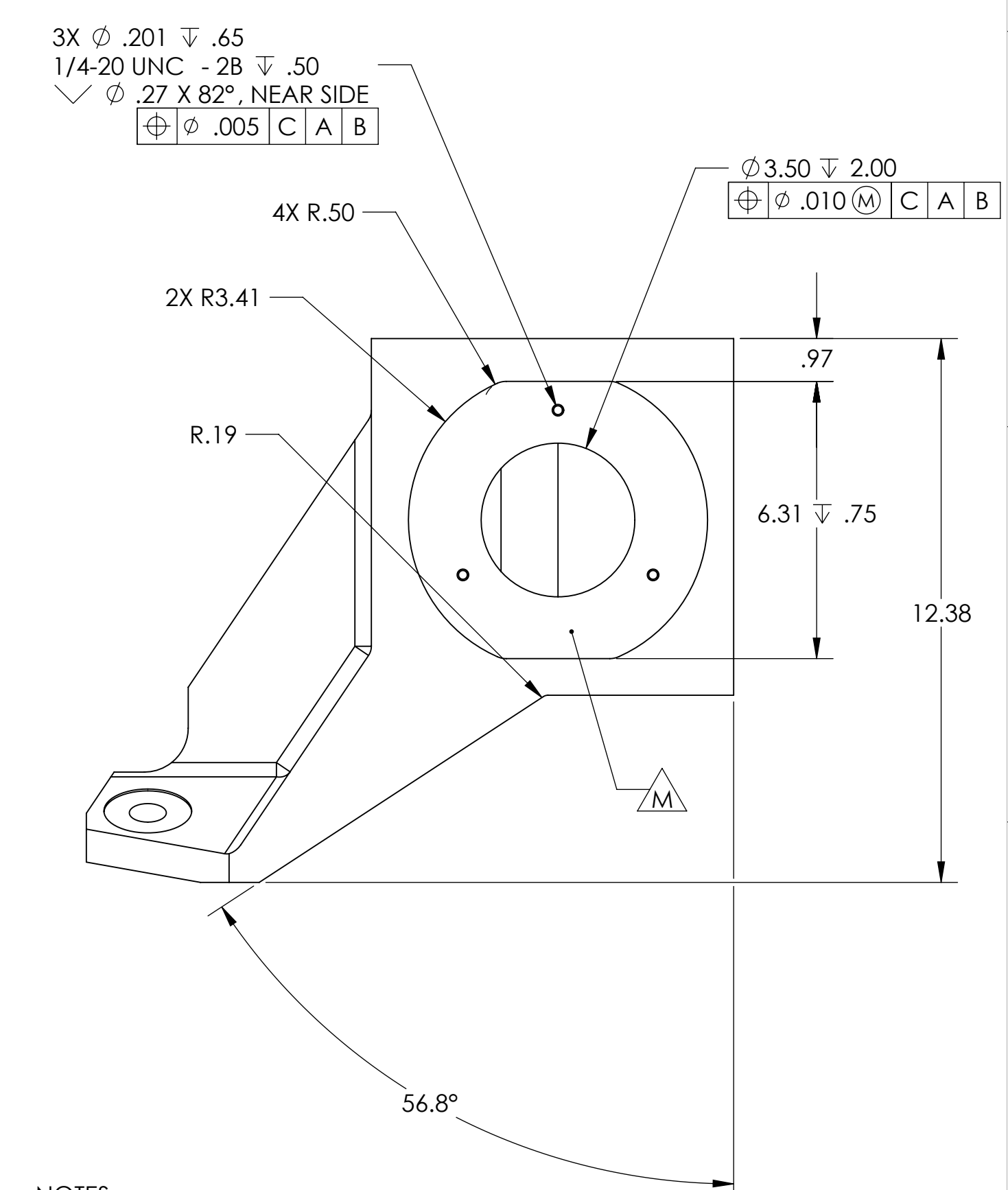
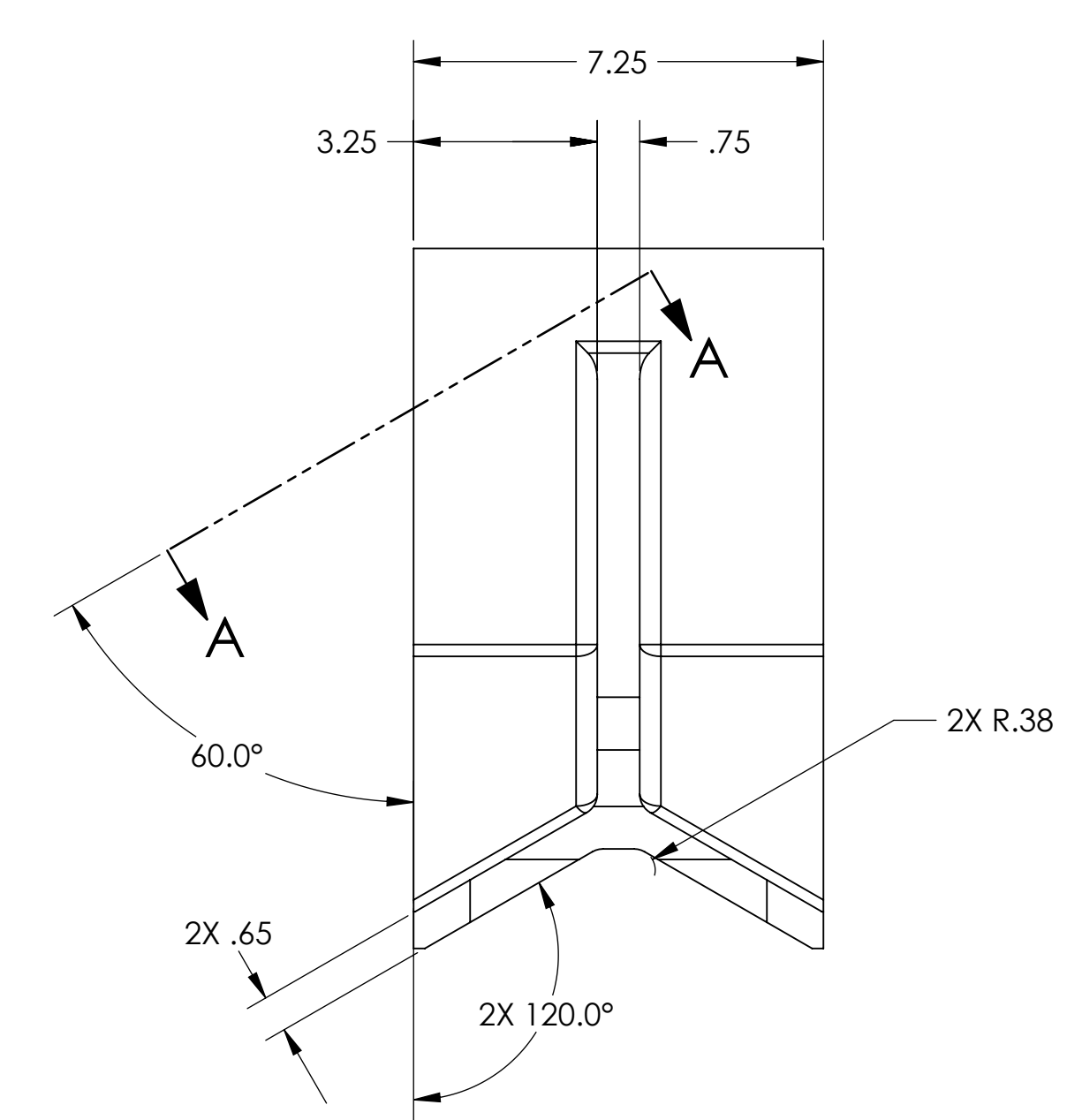
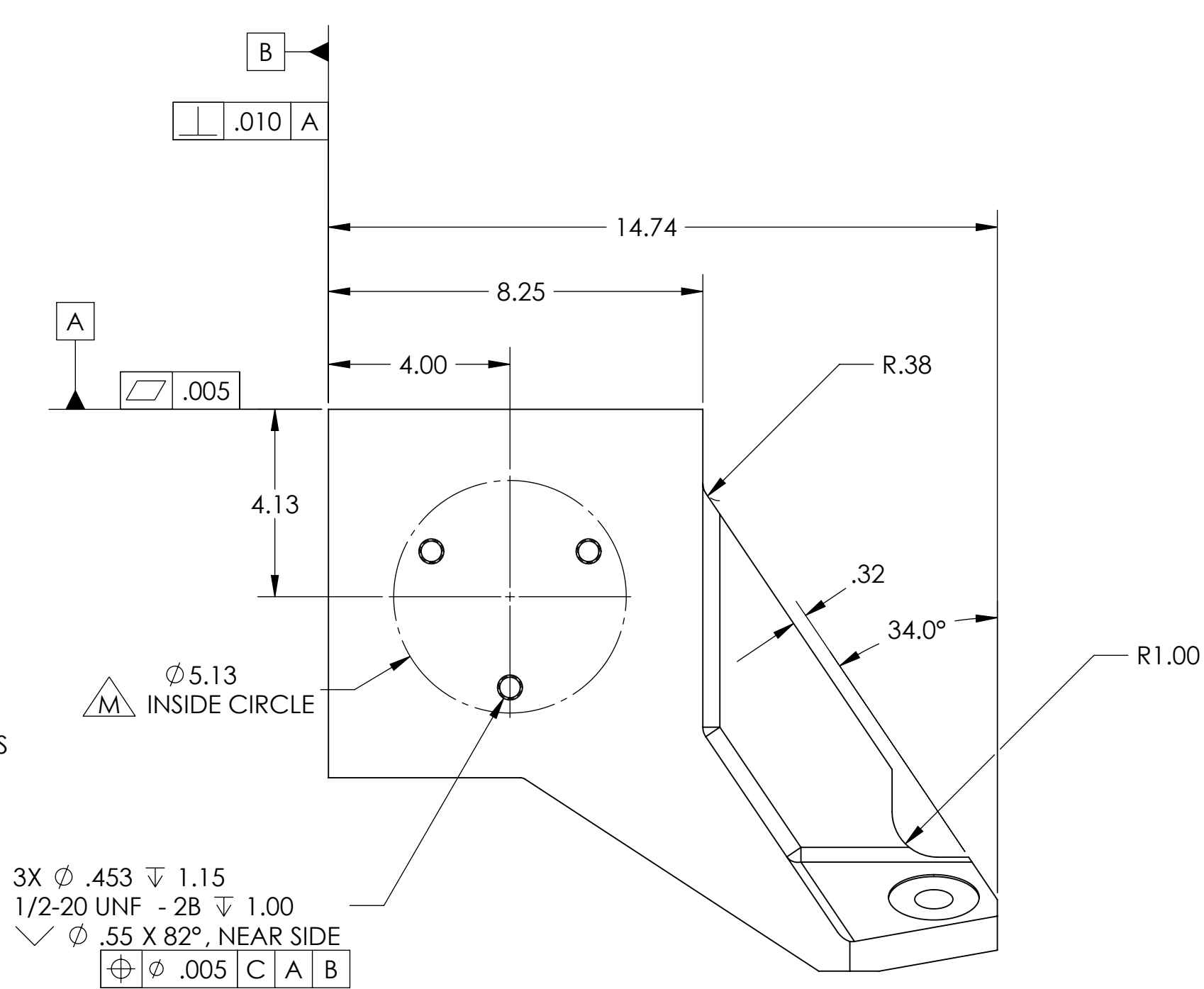
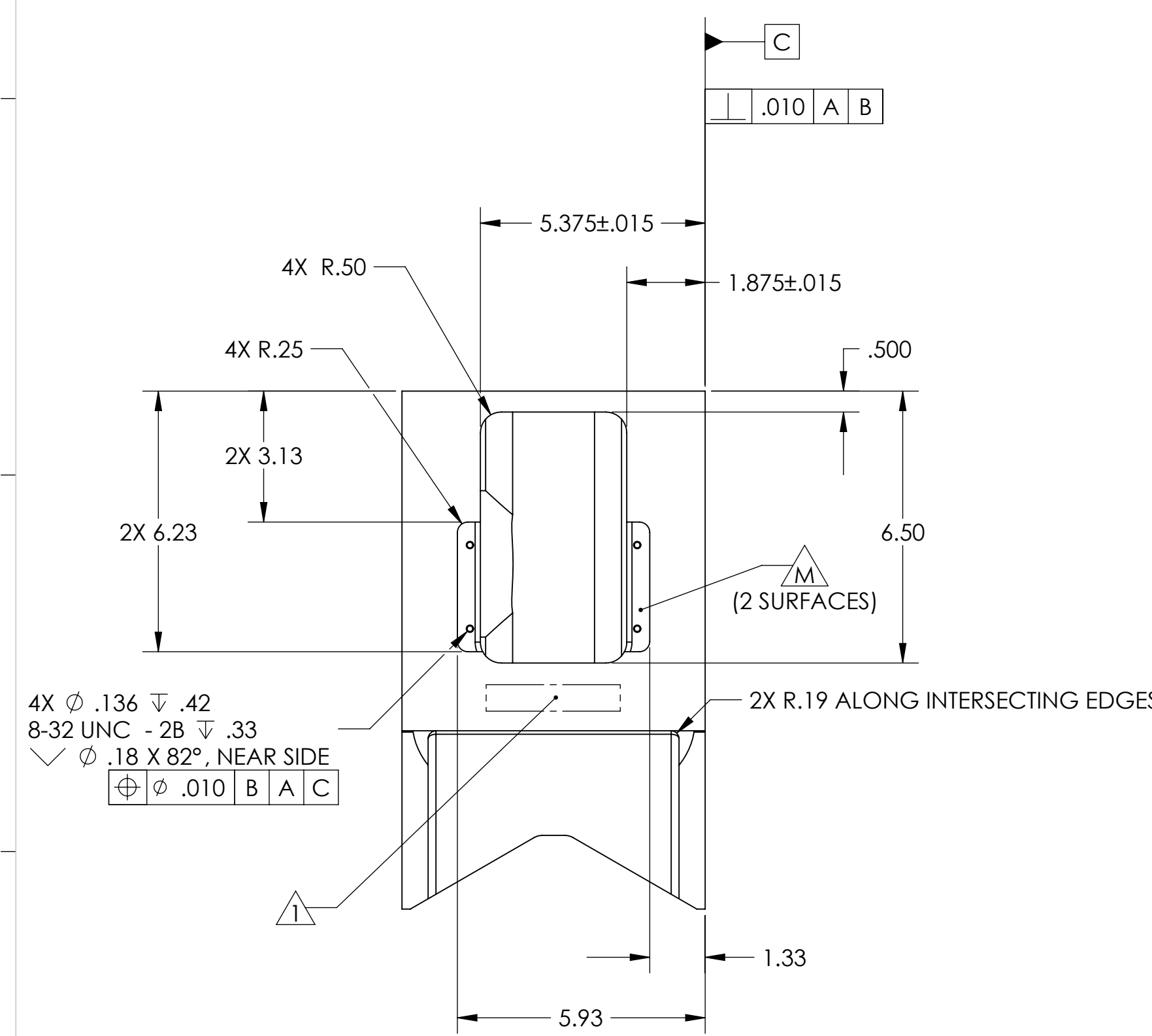
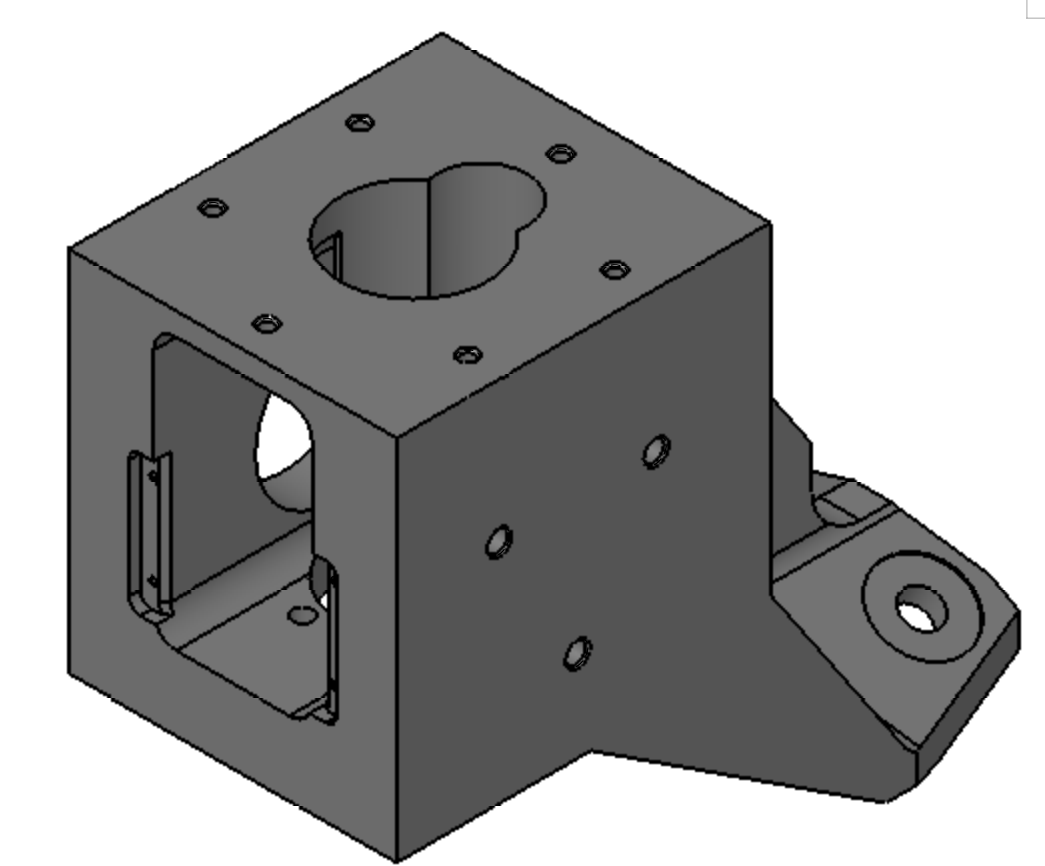
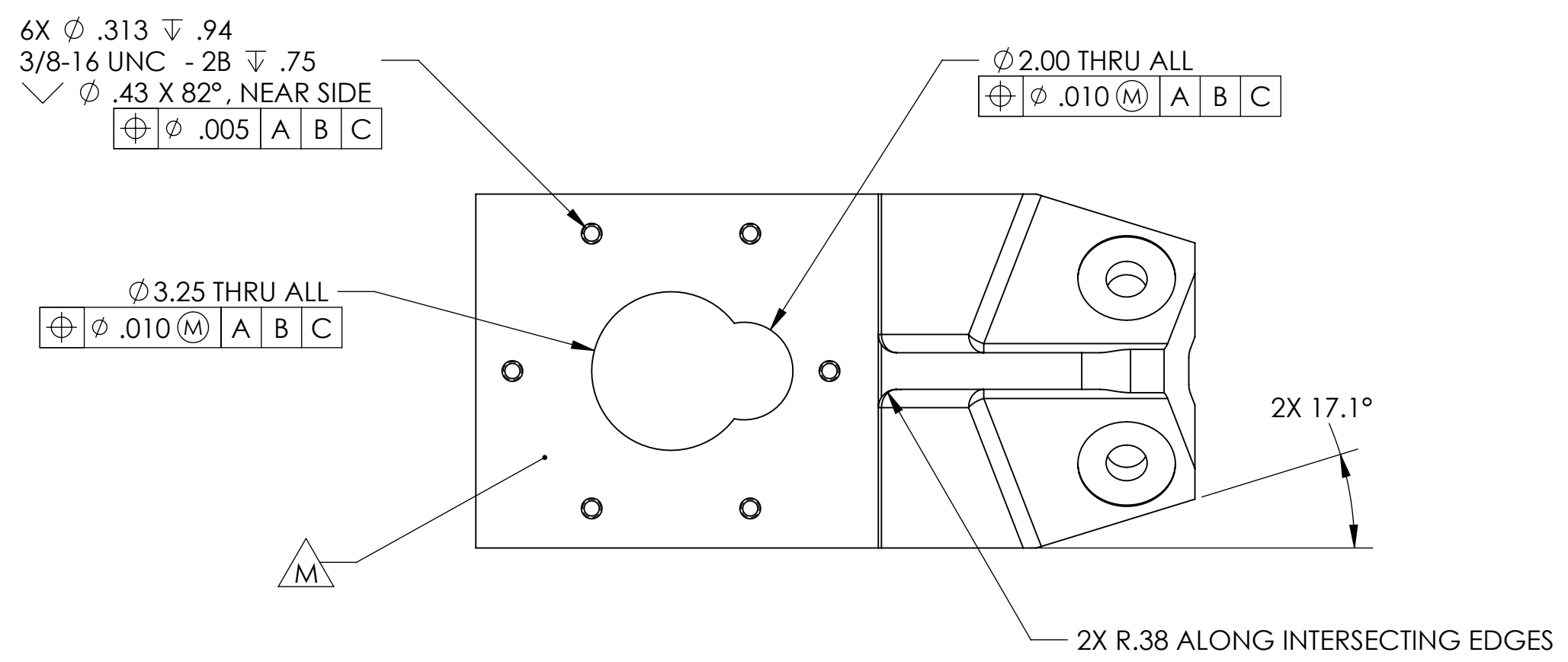


REV.	DATE	DCN #	APPROVAL	DESCRIPTION
B	06/13/2003	E030408-00		
C	09/27/2003	E030499-00		
D	07/07/2008			TWO CONFIGURATIONS ADDED, FOR ADVANCED LIGO LEFT/RIGHT REPI.



NOTES:

- WHERE INDICATED, MECHANICALLY SCRIBE, STAMP, OR ENGRAVE THE FOLLOWING INFORMATION AS SHOWN BELOW: PART NUMBER-REVISION, TYPE, FOLLOWED ON THE NEXT LINE WITH A UNIQUE 3-DIGIT SERIAL NUMBER STARTING AT 001 FOR THE FIRST PART AND INCREMENTING THEREAFTER. USE 0.12" TALL CHARACTERS UNLESS PART SIZE DICTATES SMALLER. LETTERING MUST BE VISIBLE AFTER PAINTING, IF APPLICABLE.

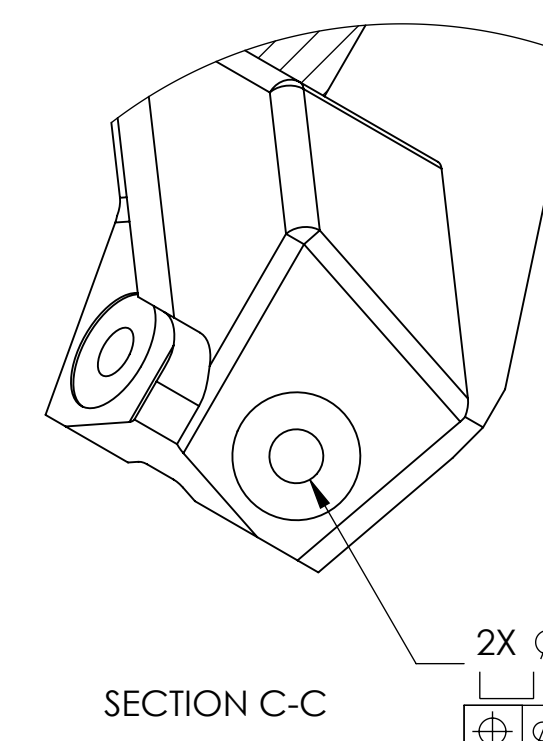
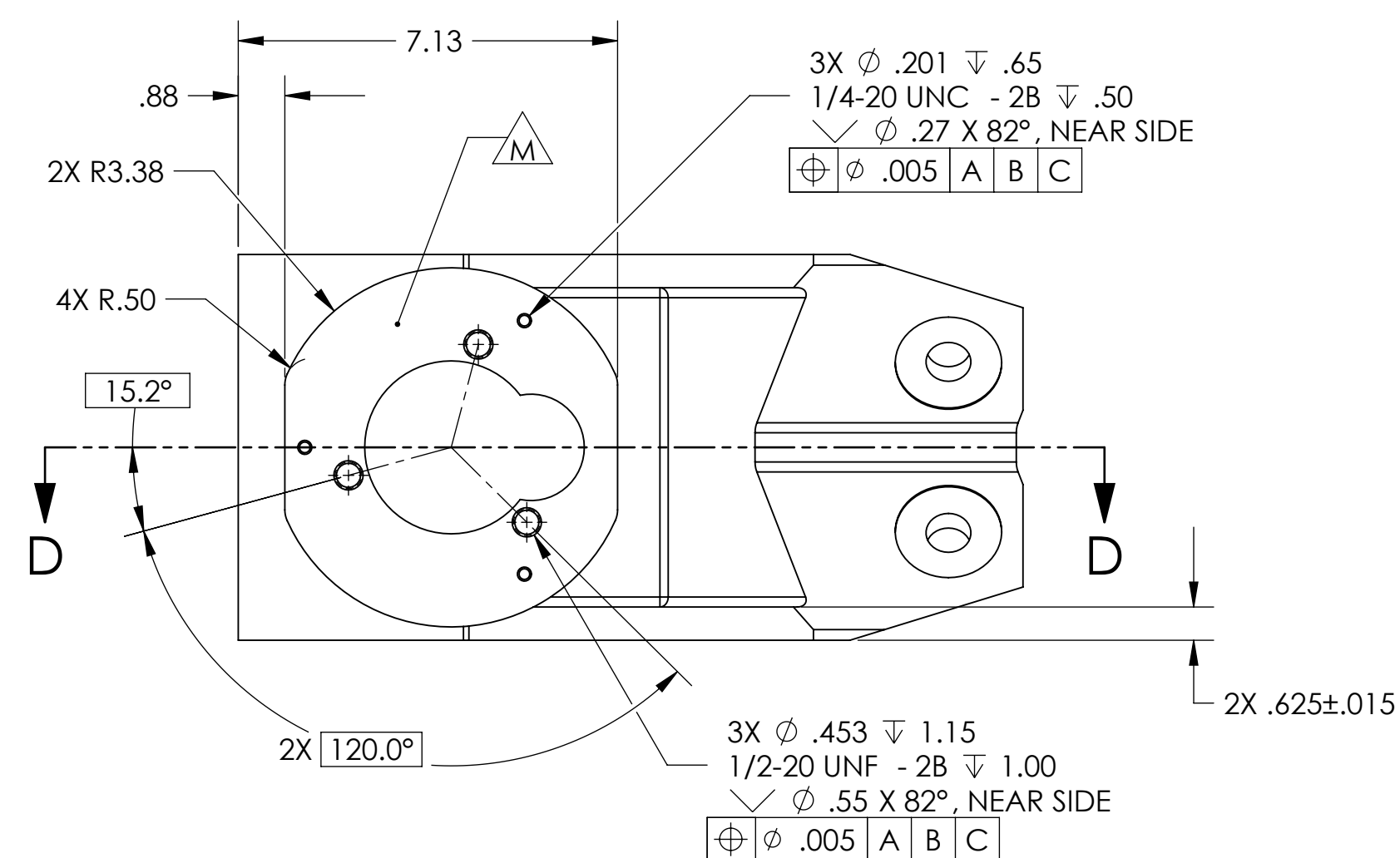
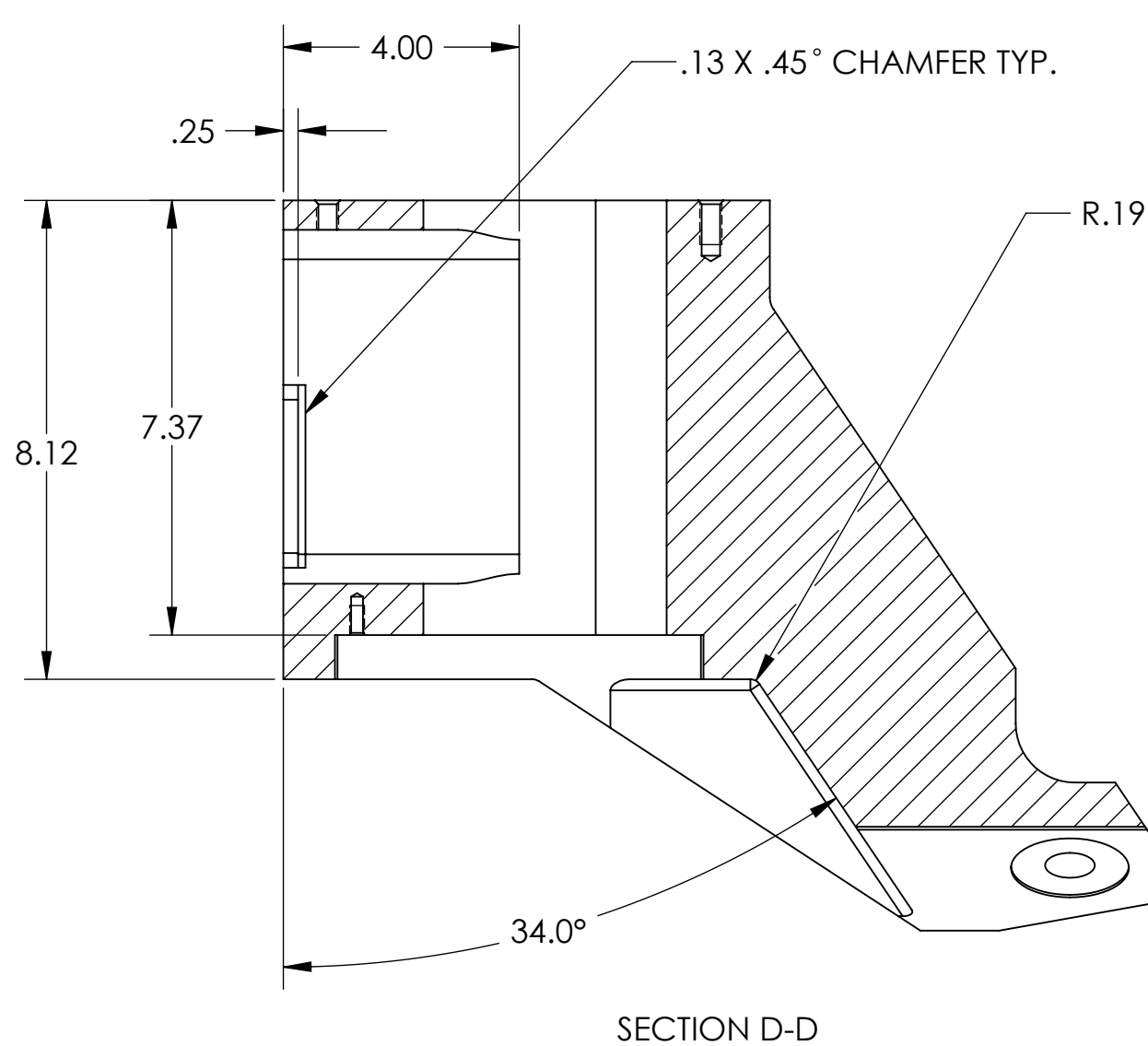
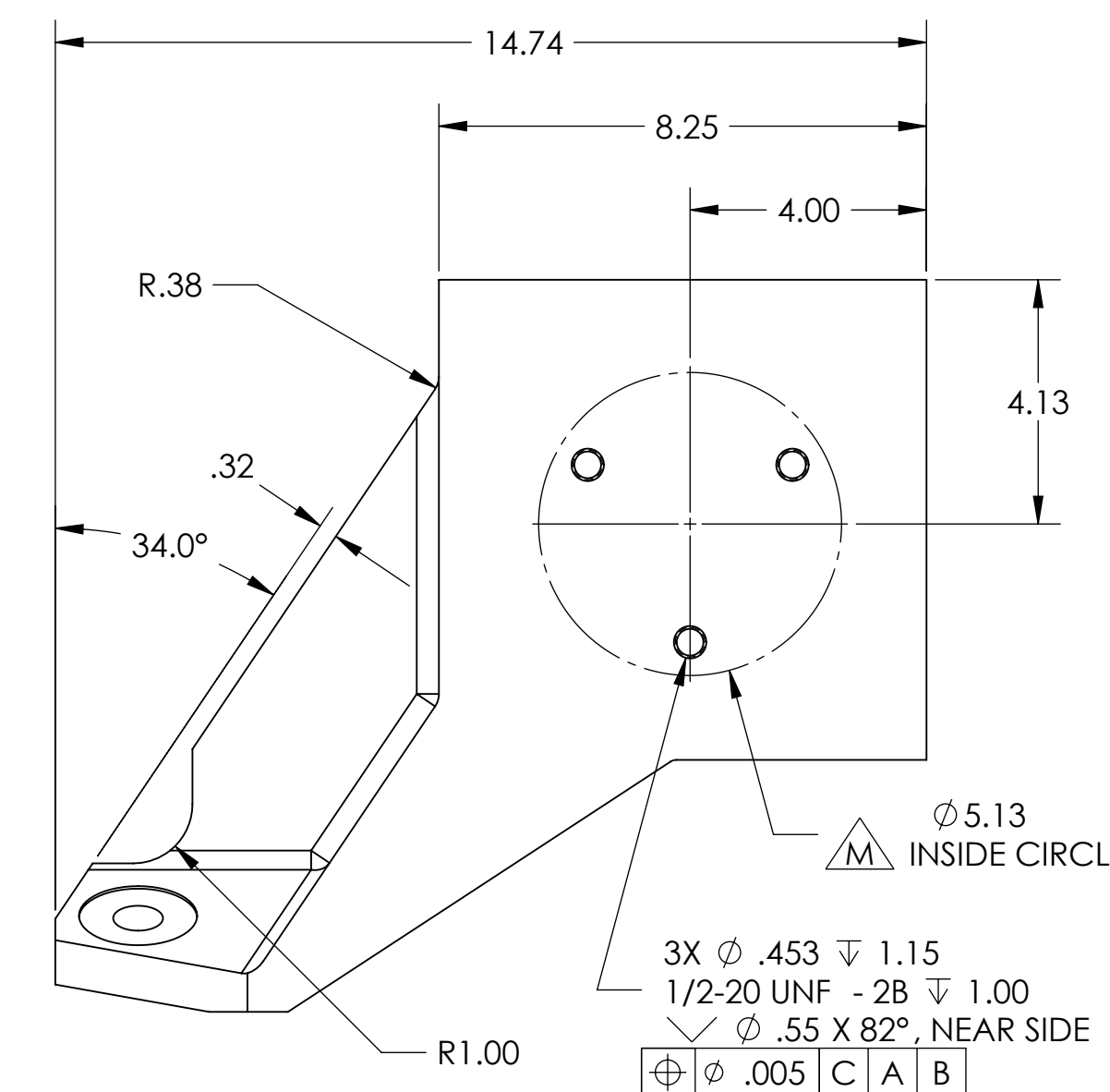
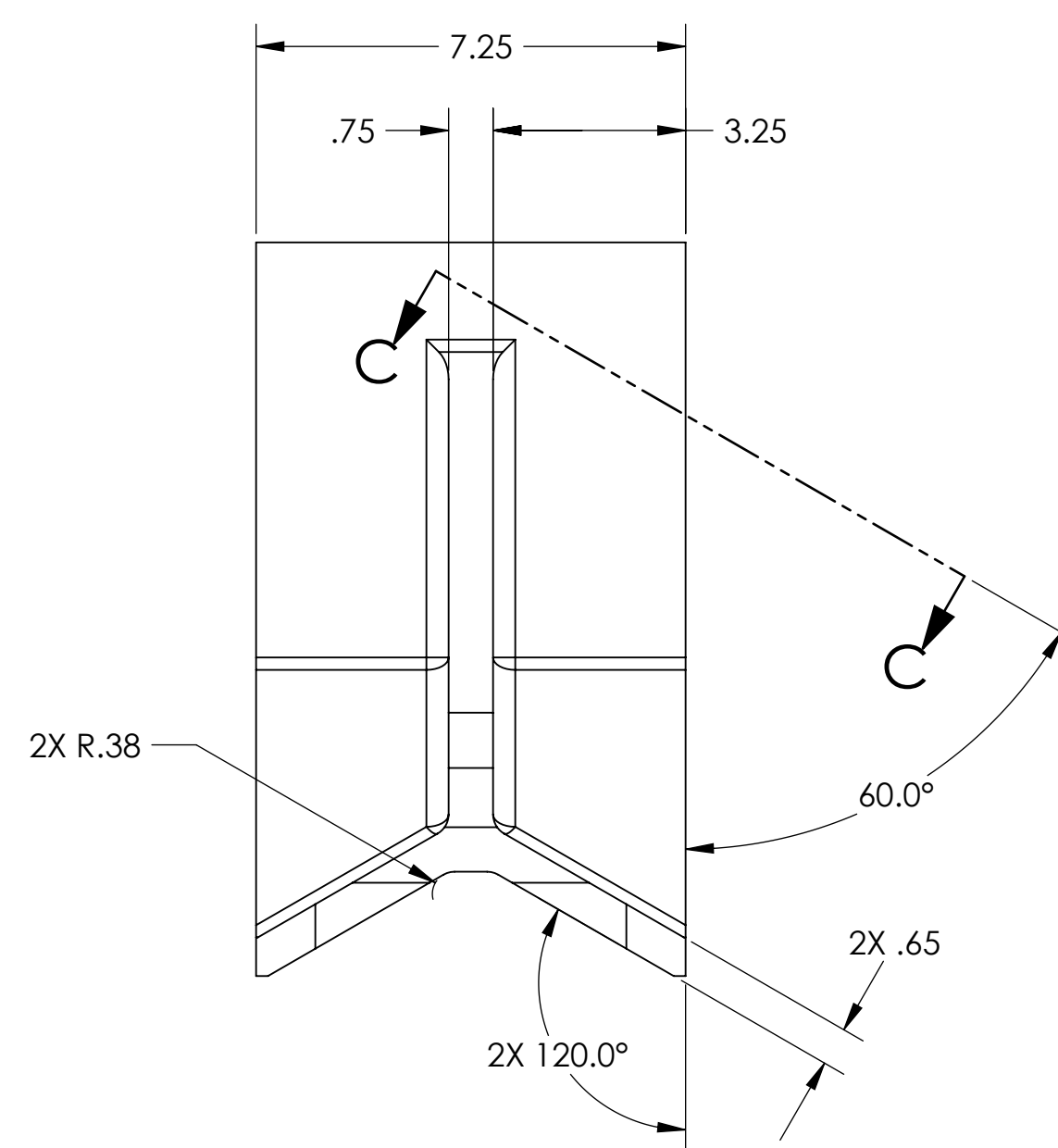
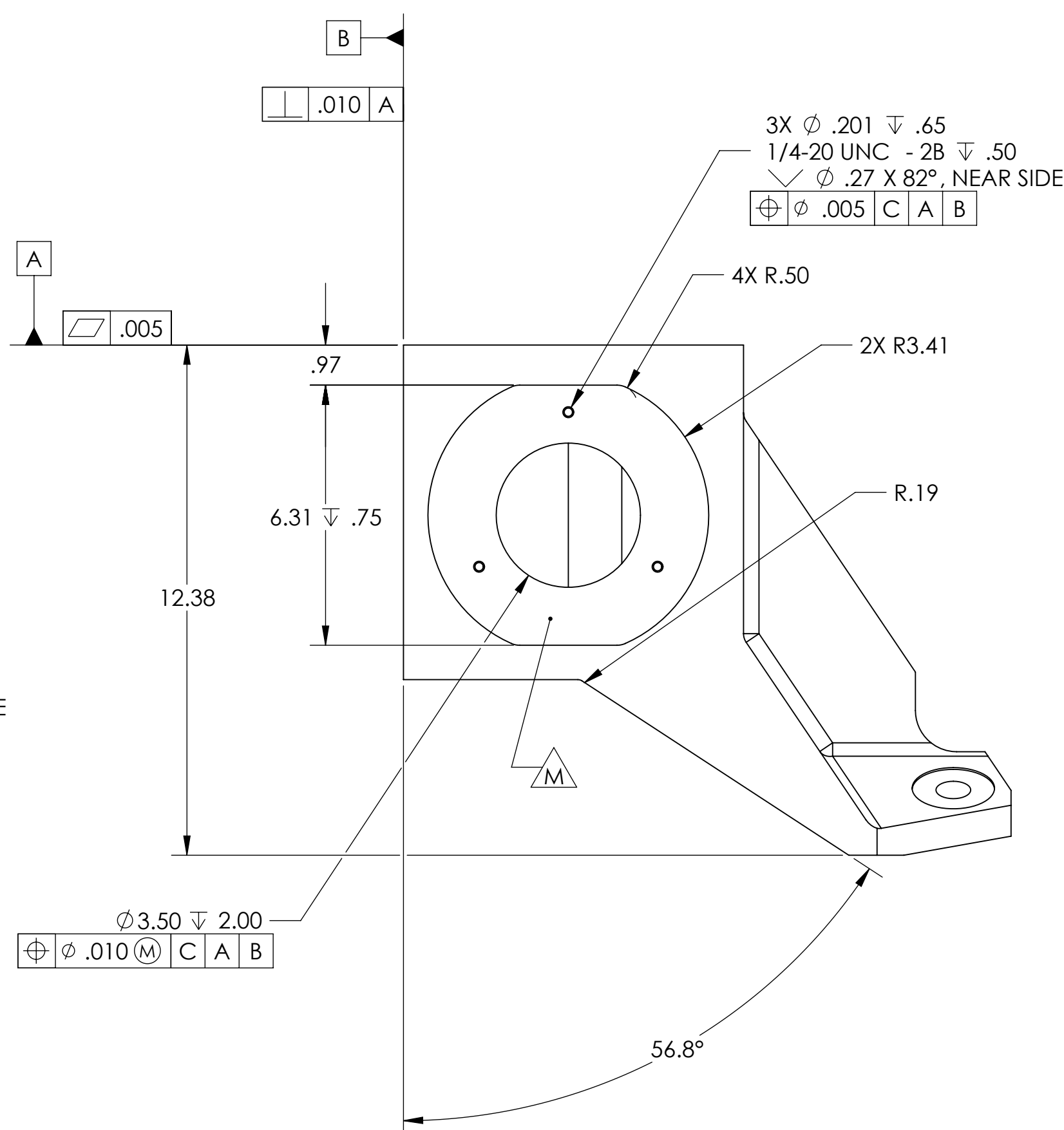
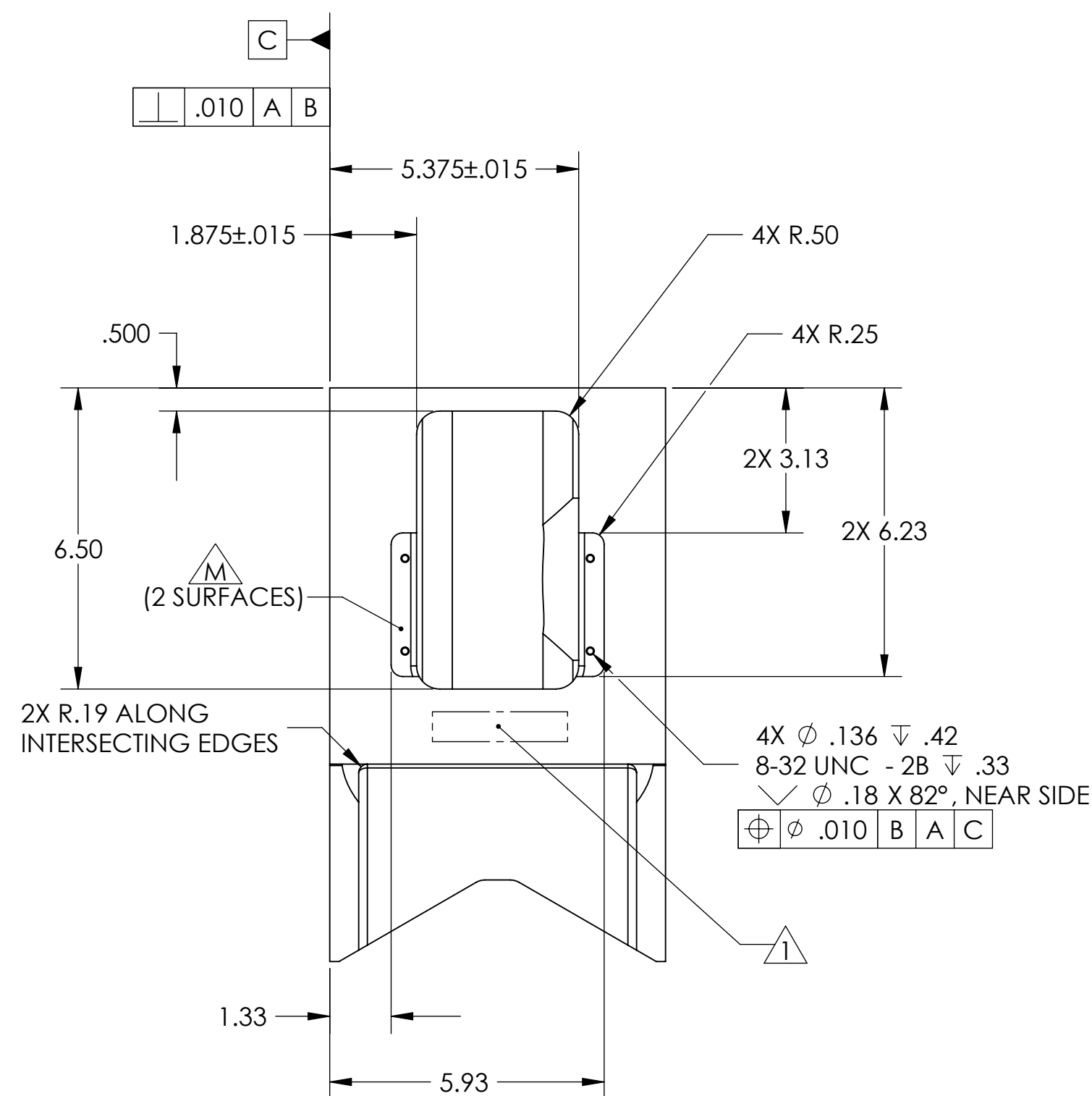
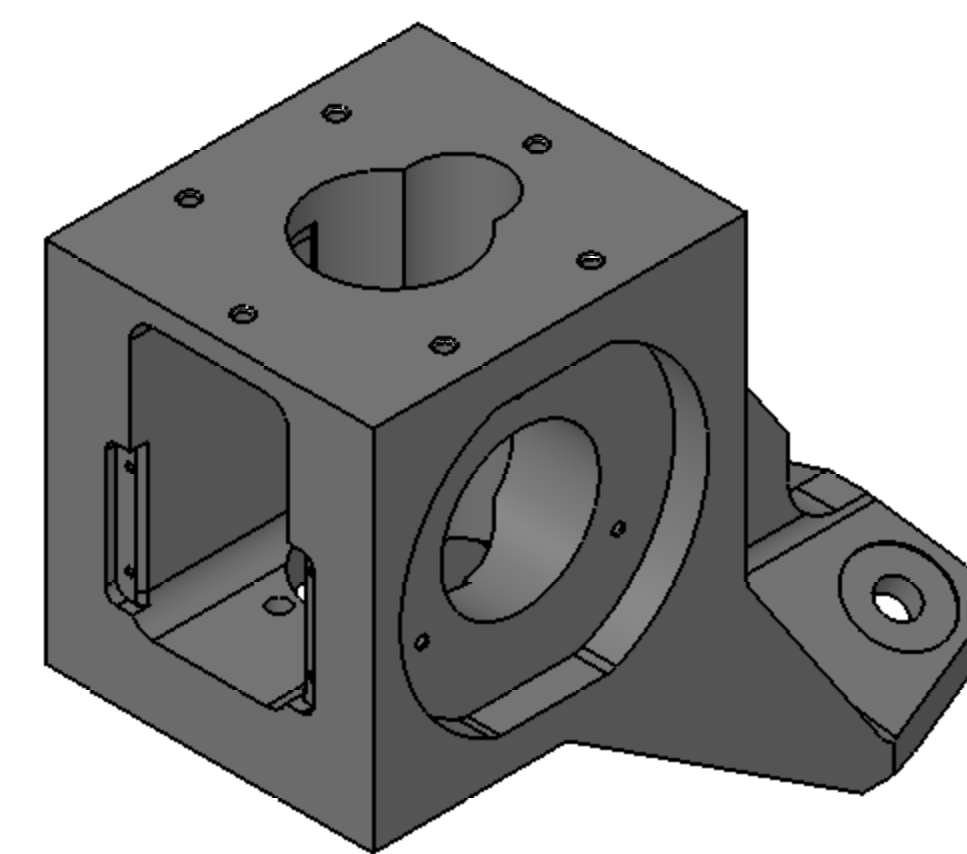
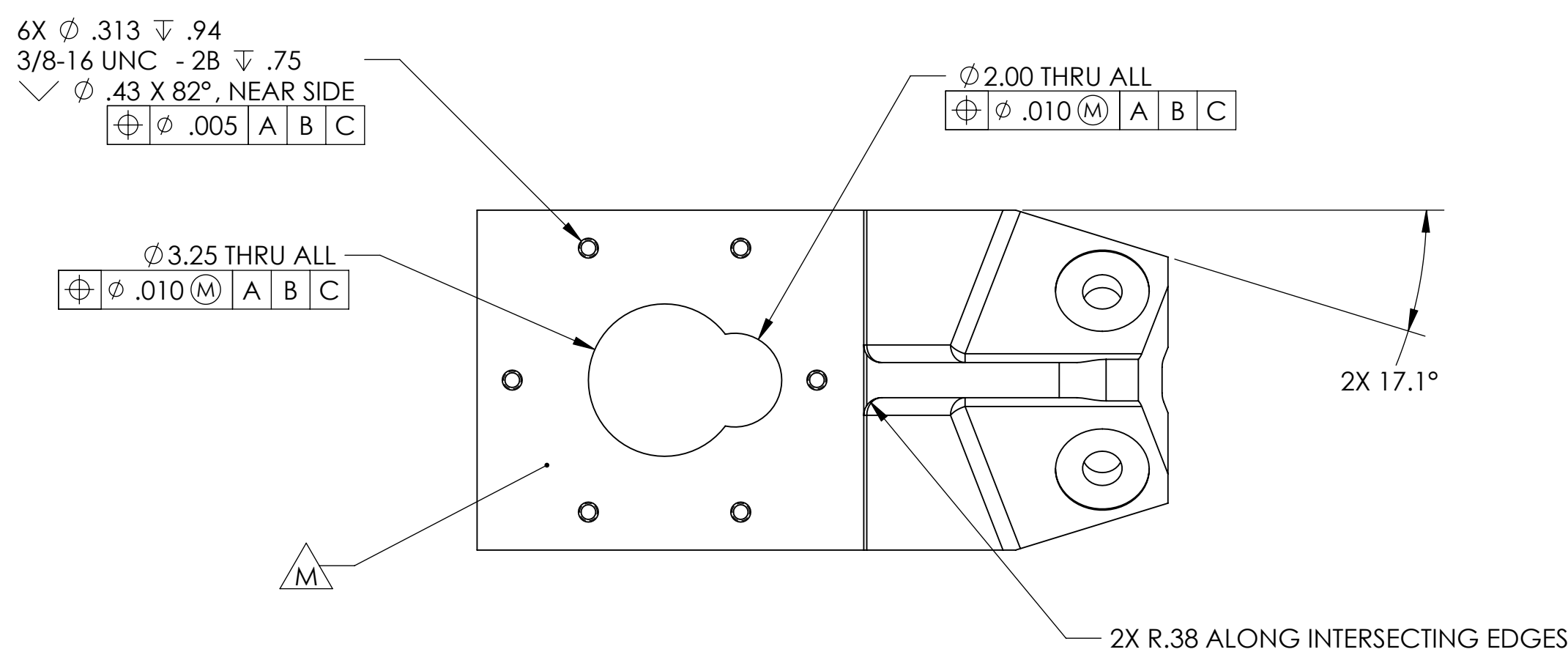
D020195-D, TYPE 00
 S/N - ###

- PLUG ALL SCREW HOLES, BOTH TAPPED AND THRU.
- PAINT ALL SURFACES, EXCEPT WHERE INDICATED BY (M). USE MEDIUM BLUE SHERWIN WILLIAMS (POLANE (R) T-PLUS POLYURETHANE ENAMEL). PRIME WITH SHERWIN WILLIAMS INDUSTRIAL WASH PRIMER P60G2.
- APPLY "OXISOLV RUST INHIBITOR" TO ALL UNPAINTED SURFACES, PER MFG INSTRUCTIONS. REMOVE PLUGS FROM ALL HOLES.

CONFIGURATION: **ILIGO, LEFT**
 TYPE 00

NOTES: (UNLESS OTHERWISE SPECIFIED)		DIMENSIONS ARE IN INCHES		CALIFORNIA INSTITUTE OF TECHNOLOGY	
1. DO NOT SCALE FROM DRAWING.	2. REMOVE ALL SHARP EDGES. LEAVE .002 X 45° MIN CHAMFER. OR .005 MIN RADIUS.	TOLERANCES:	SURFACE FINISH:	LIGO MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
3. ALL MACHINING FLUIDS MUST BE WATER SOLUBLE AND FREE OF SILICATE, CHLORINE, AND SULFONE. E.G. MACKRON CHAMFER 2H #10.	4. CLEAN THOROUGHLY TO REMOVE ALL OIL, DIRT, AND CHIPS.	XXX \pm 0.015	XXX \pm 0.005	IGR. GLASGOW UNIVERSITY GEO 400 GROUP	
		ANGULAR \pm 0.5°		SYSTEM ADVANCED LIGO	
		MATERIAL LOW CARBON STEEL		SUB-SYSTEM SEI	
		FINISH SEE NOTES		NEXT ASSY D030326	
		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:		PART NAME HEPI CROSSBEAM FOOT	
DRAWN	NAME	DATE	SIZE	DWG. NO.	REV.
CHECKED	BY	DATE	D	D020195	D
APPROVED			SCALE: 1:3	PROJECTION:	SHEET 1 OF 4

REV.	DATE	DCN #	APPROVAL	DESCRIPTION
				See Sheet 1



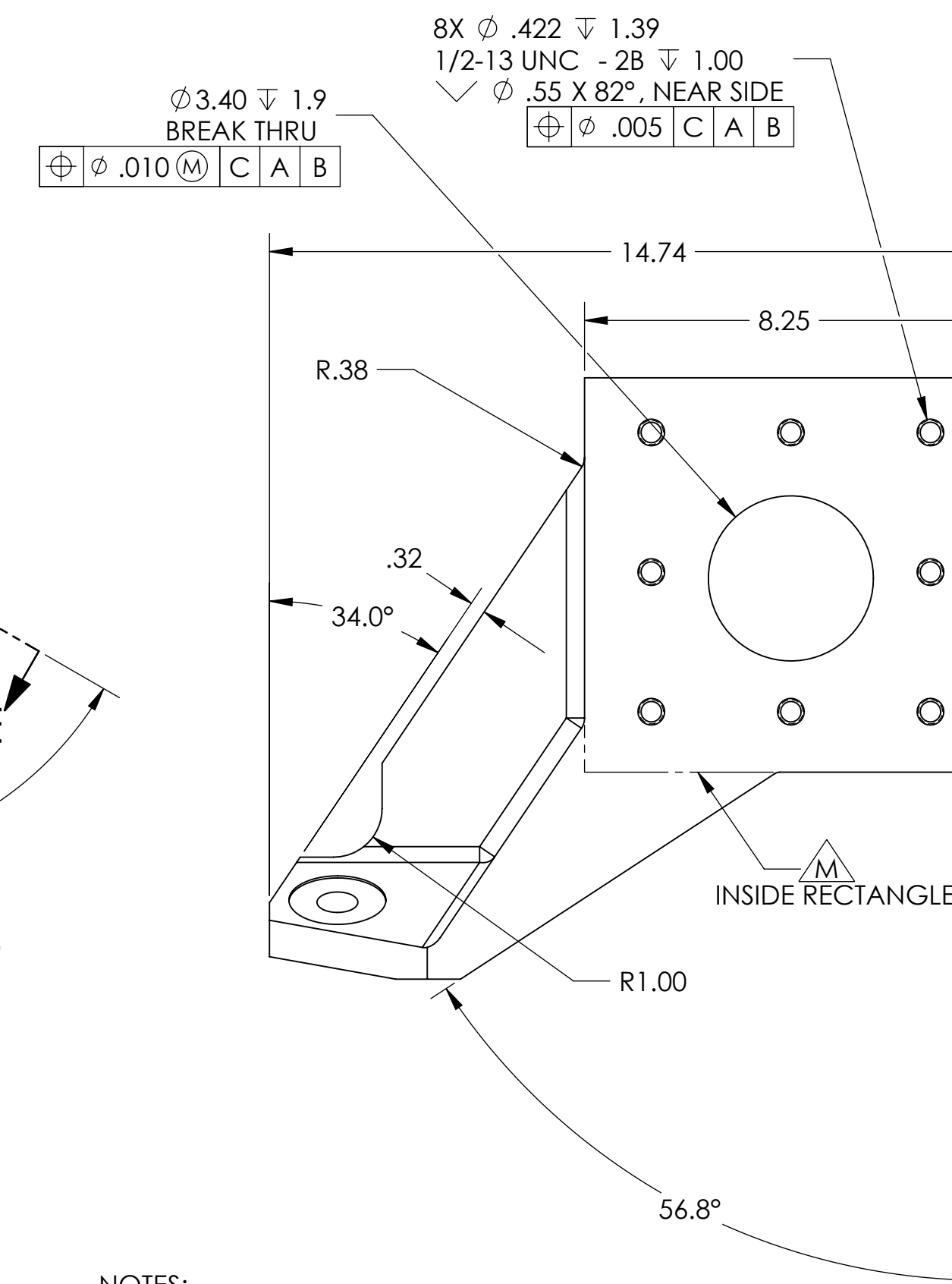
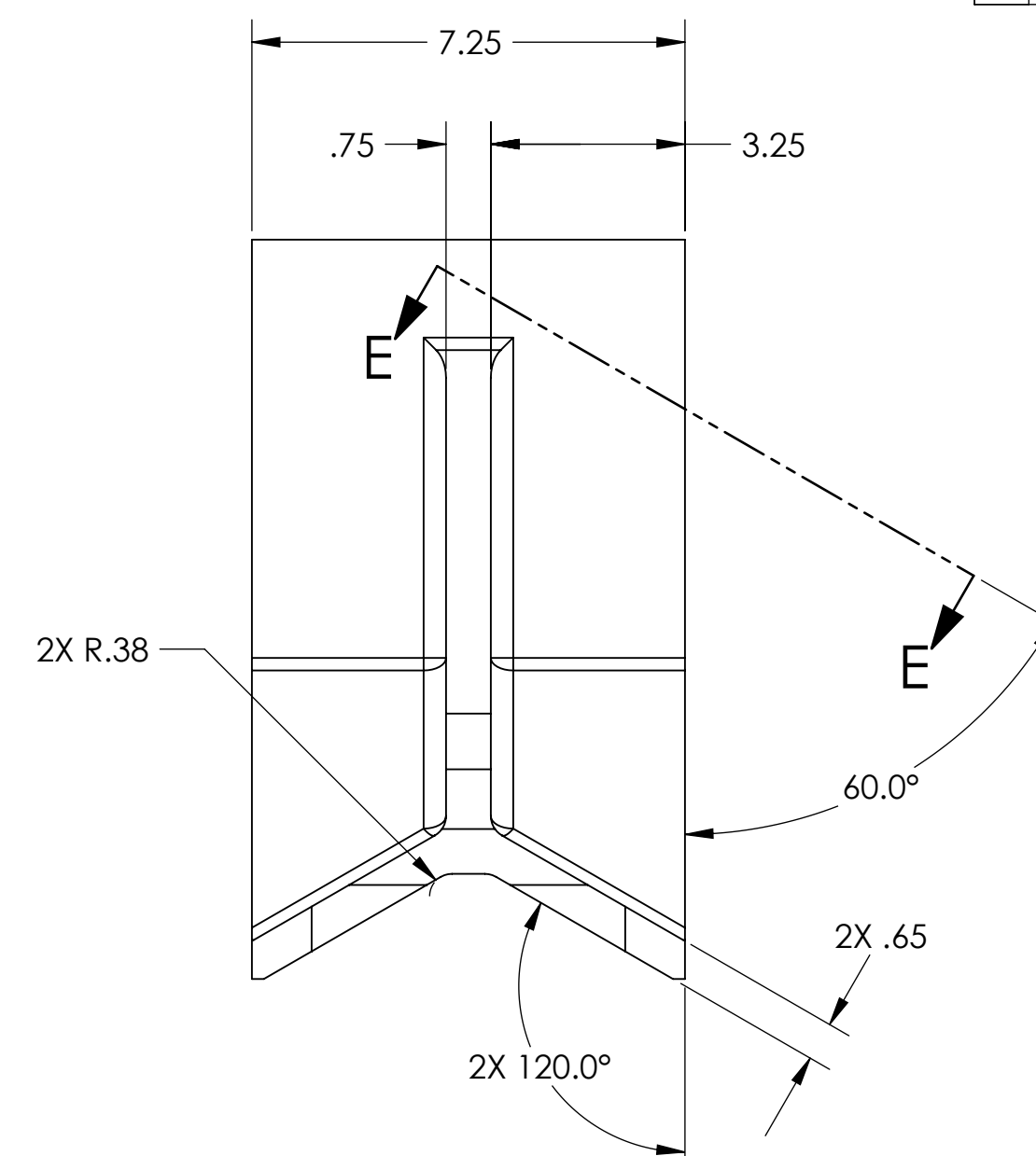
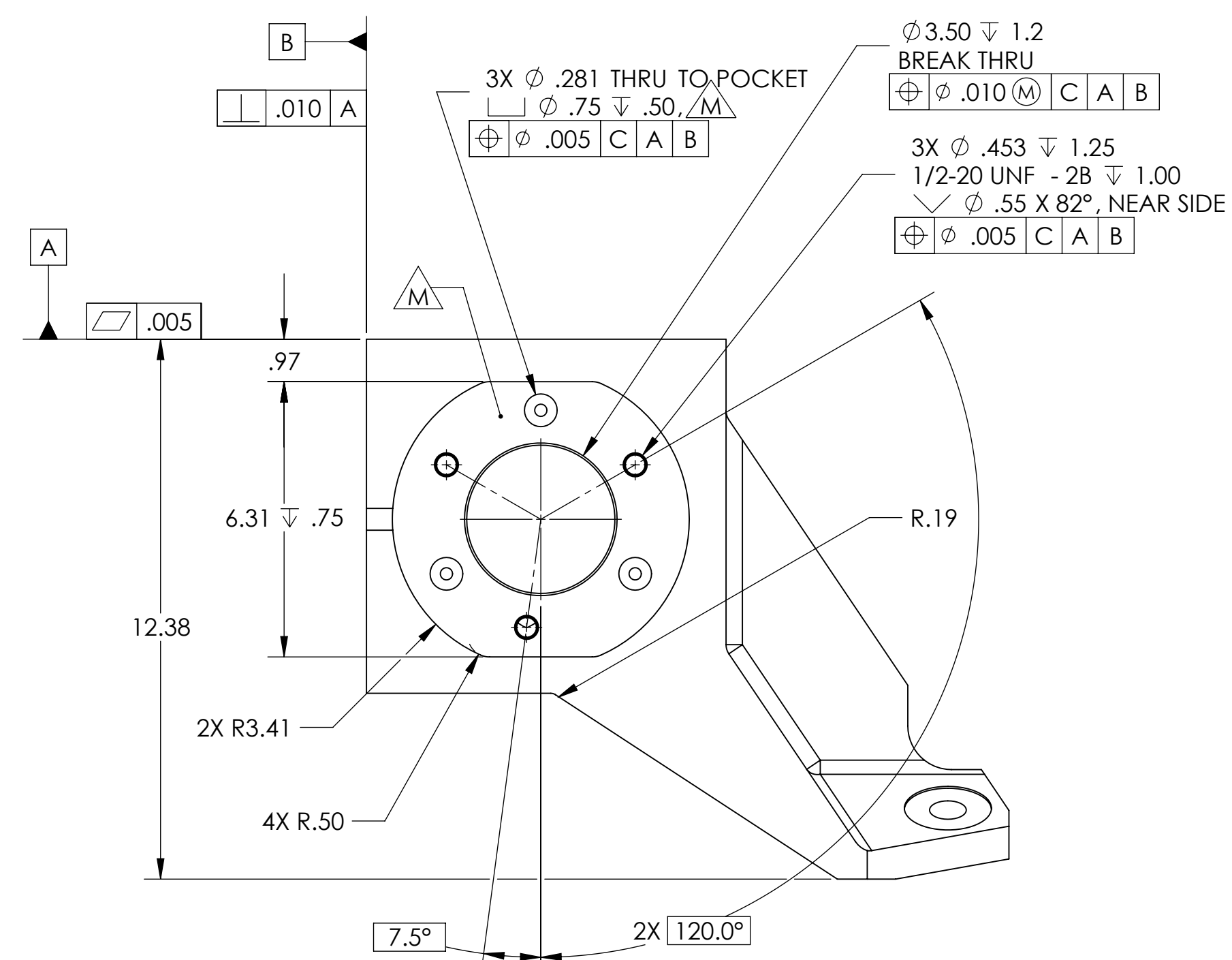
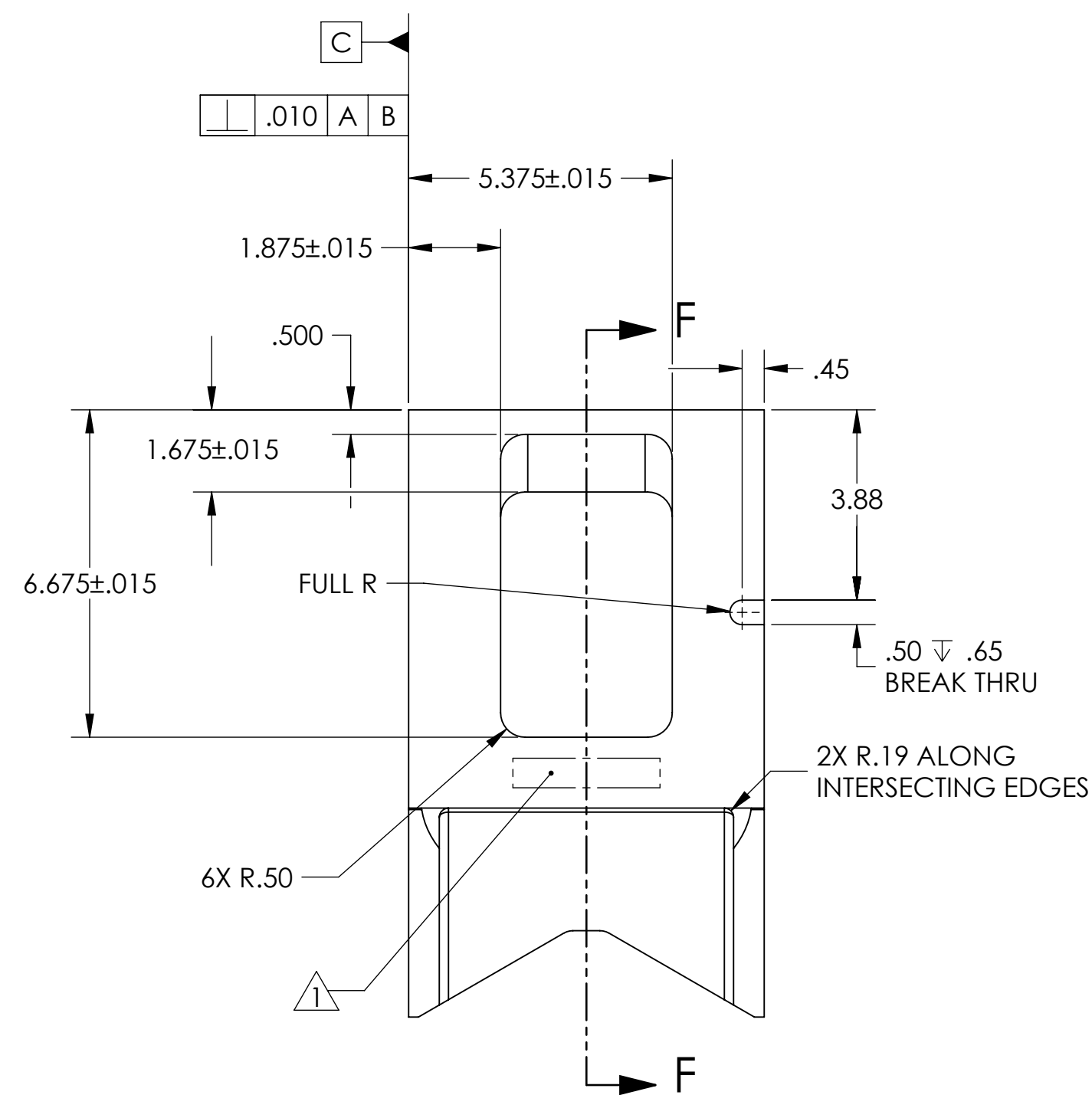
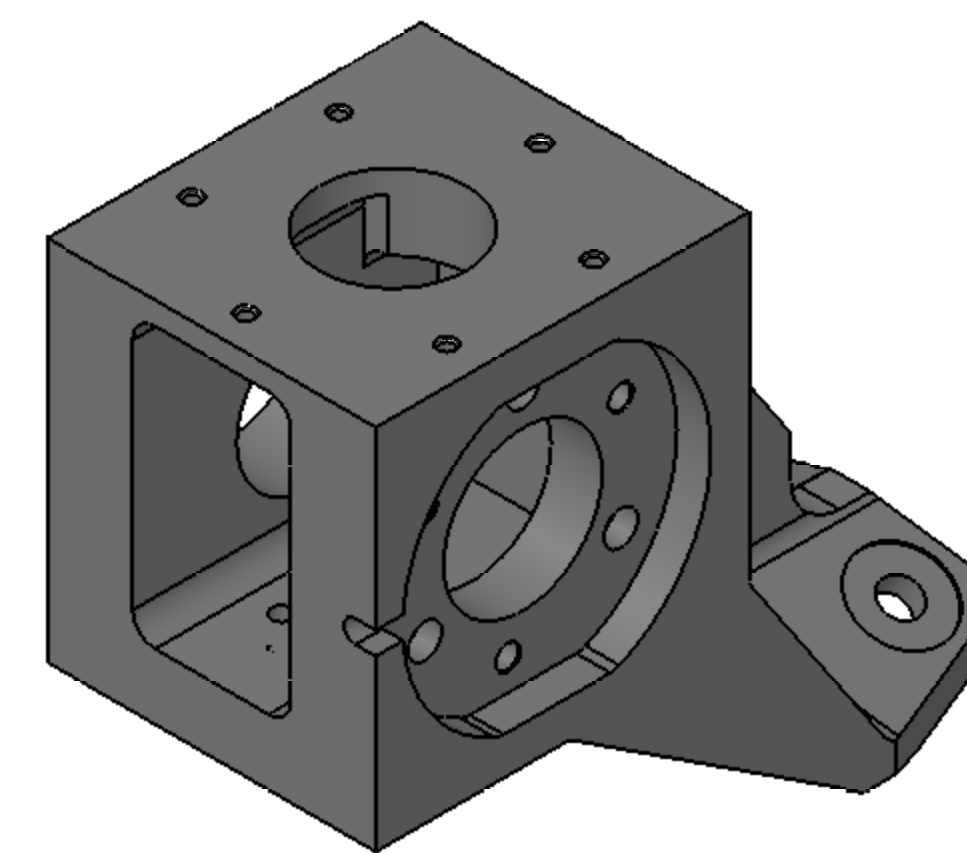
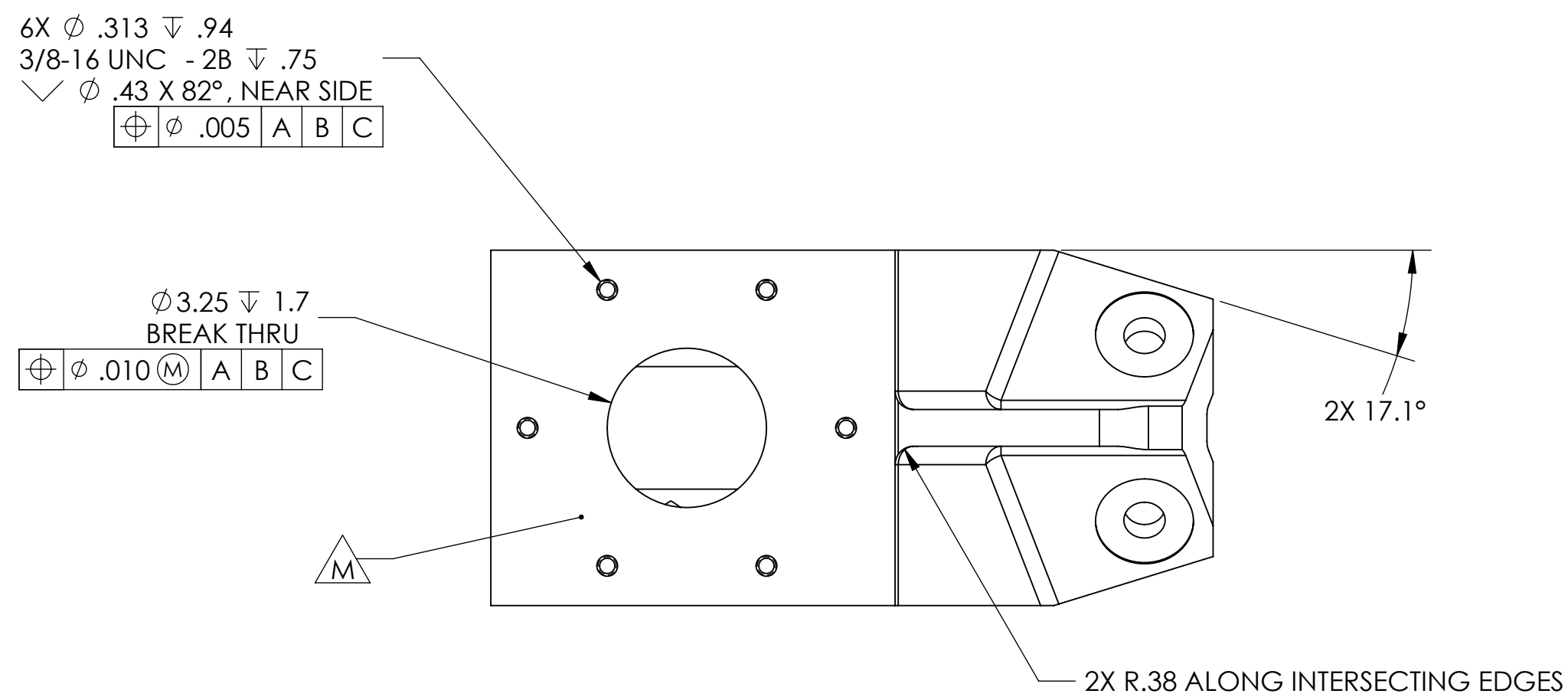
NOTES:

- WHERE INDICATED, MECHANICALLY SCRIBE, STAMP, OR ENGRAVE THE FOLLOWING INFORMATION AS SHOWN BELOW: PART NUMBER-REVISION, TYPE, FOLLOWED ON THE NEXT LINE WITH A UNIQUE 3-DIGIT SERIAL NUMBER STARTING AT 001 FOR THE FIRST PART AND INCREMENTING THEREAFTER. USE 0.12" TALL CHARACTERS UNLESS PART SIZE DICTATES SMALLER. LETTERING MUST BE VISIBLE AFTER PAINTING, IF APPLICABLE.
D020195-D, TYPE 01
S/N - ###
- PLUG ALL SCREW HOLES, BOTH TAPPED AND THRU.
- PAIN ALL SURFACES, EXCEPT WHERE INDICATED BY M. USE MEDIUM BLUE SHERWIN WILLIAMS (POLANE (R) T-PLUS POLYURETHANE ENAMEL). PRIME WITH SHERWIN WILLIAMS INDUSTRIAL WASH PRIMER P60G2.
- APPLY "OXISOLV RUST INHIBITOR" TO ALL UNPAINTED SURFACES, PER MFG INSTRUCTIONS. REMOVE PLUGS FROM ALL HOLES.

CONFIGURATION: ILIGO, RIGHT
TYPE 01

NOTES: (UNLESS OTHERWISE SPECIFIED)		DIMENSIONS ARE IN INCHES	
1. DO NOT SCALE FROM DRAWING.	2. REMOVE ALL SHARP EDGES. LEAVE .002 X 45° MIN CHAMFER, OR .005 MIN RADIUS.	TOLERANCES:	SURFACE ROUGHNESS:
3. ALL MACHINING FLUIDS MUST BE WATER SOLUBLE AND FREE OF SILICATE, CHLORINE, AND SULFONE.	4. CLEAN THOROUGHLY TO REMOVE ALL OIL, DIRT, AND CHIPS.	XXX ± 0.015	XXX ± 0.005
MATERIAL: LOW CARBON STEEL		ANGULAR: ± 0.5°	
FINISH: SEE NOTES		PART NAME: HEPI CROSSBEAM FOOT	
DRAWN: [Signature]		DATE: 07/01/2019	SIZE: DWG. NO. D020195
CHECKED: [Signature]		DATE: [Signature]	SCALE: 1:3
APPROVED: [Signature]		PROJECTION: [Symbol]	SHEET 2 OF 4

REV.	DATE	DCN #	APPROVAL	DESCRIPTION
				See Sheet 1



NOTES:

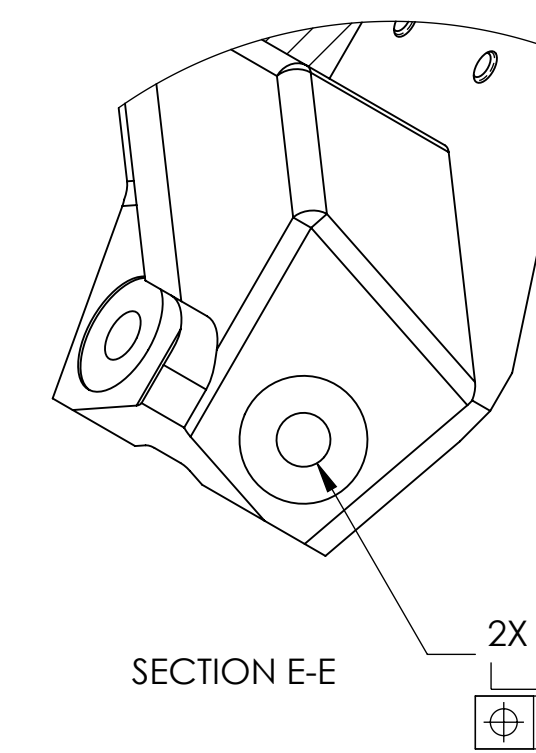
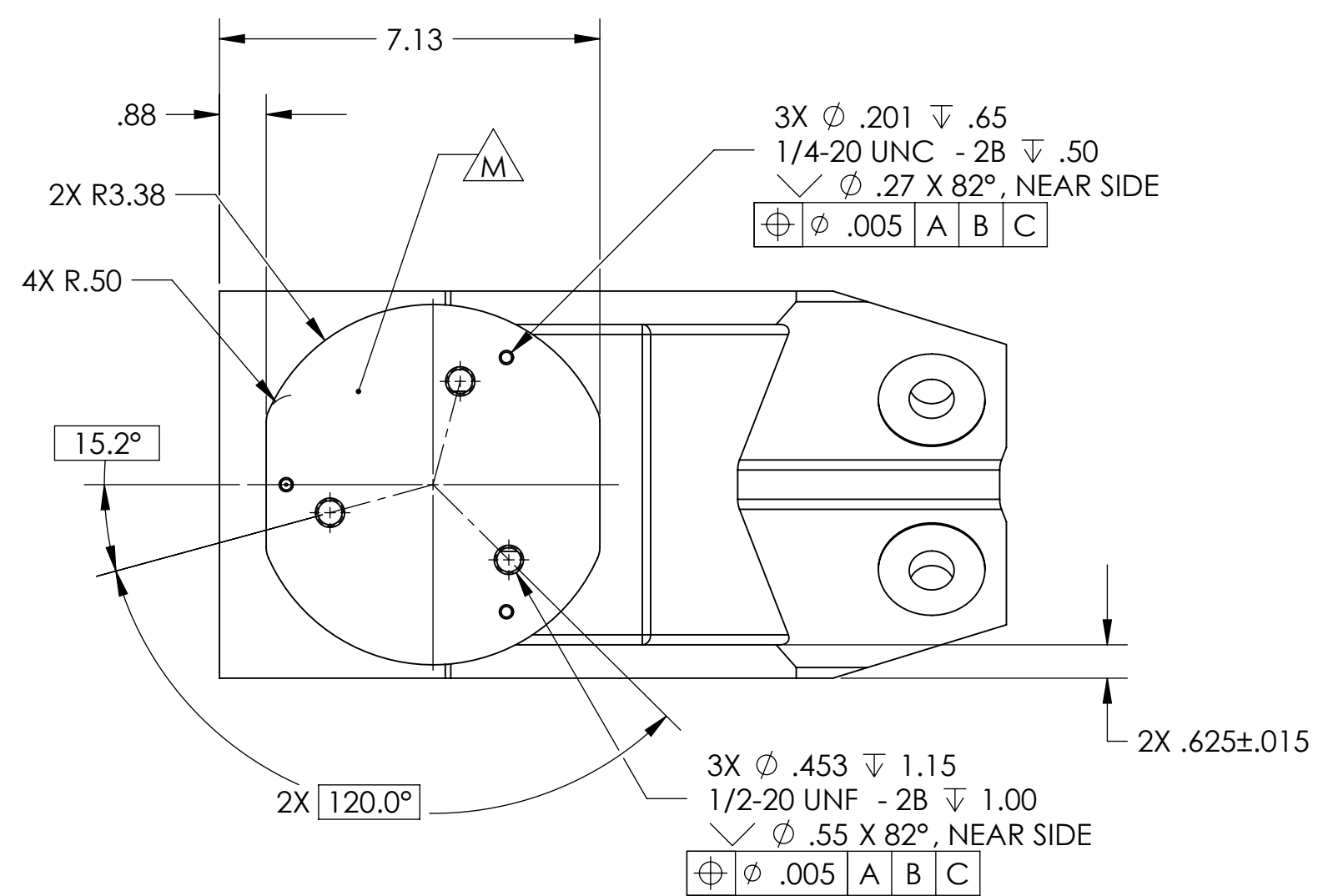
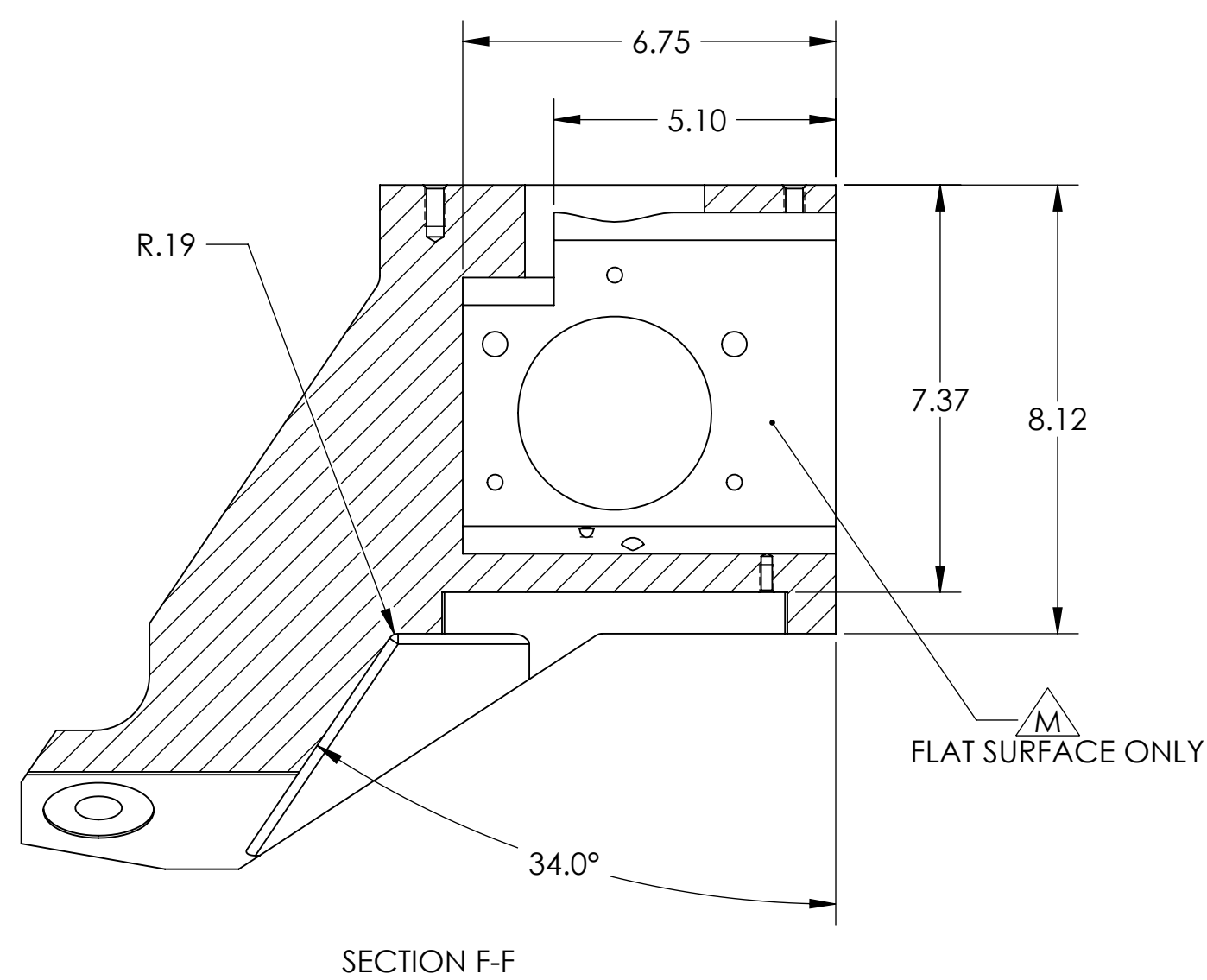
1) WHERE INDICATED, MECHANICALLY SCRIBE, STAMP, OR ENGRAVE THE FOLLOWING INFORMATION AS SHOWN BELOW: PART NUMBER-REVISION, TYPE, FOLLOWED ON THE NEXT LINE WITH A UNIQUE 3-DIGIT SERIAL NUMBER STARTING AT 001 FOR THE FIRST PART AND INCREMENTING THEREAFTER. USE 0.12" TALL CHARACTERS UNLESS PART SIZE DICTATES SMALLER. LETTERING MUST BE VISIBLE AFTER PAINTING, IF APPLICABLE.

D020195-D, TYPE 02
S/N - ###

2) PLUG ALL SCREW HOLES, BOTH TAPPED AND THRU.

3) PAINT ALL SURFACES, EXCEPT WHERE INDICATED BY Δ . USE MEDIUM BLUE SHERWIN WILLIAMS (POLANE (R) T-PLUS POLYURETHANE ENAMEL). PRIME WITH SHERWIN WILLIAMS INDUSTRIAL WASH PRIMER P60G2.

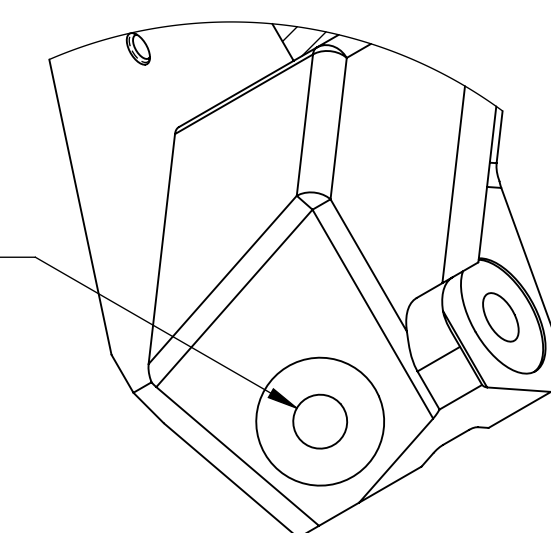
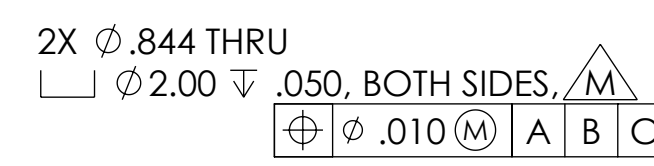
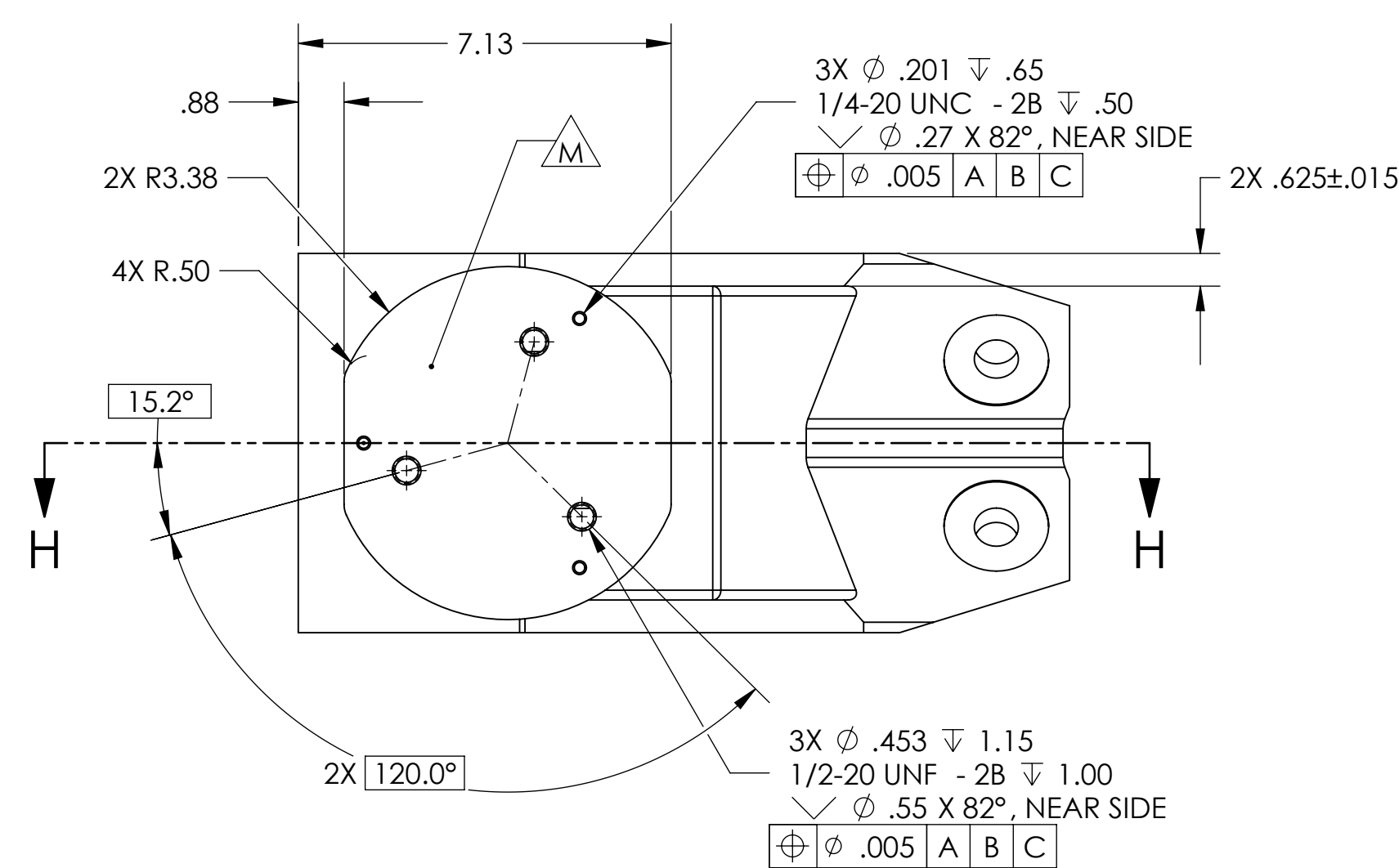
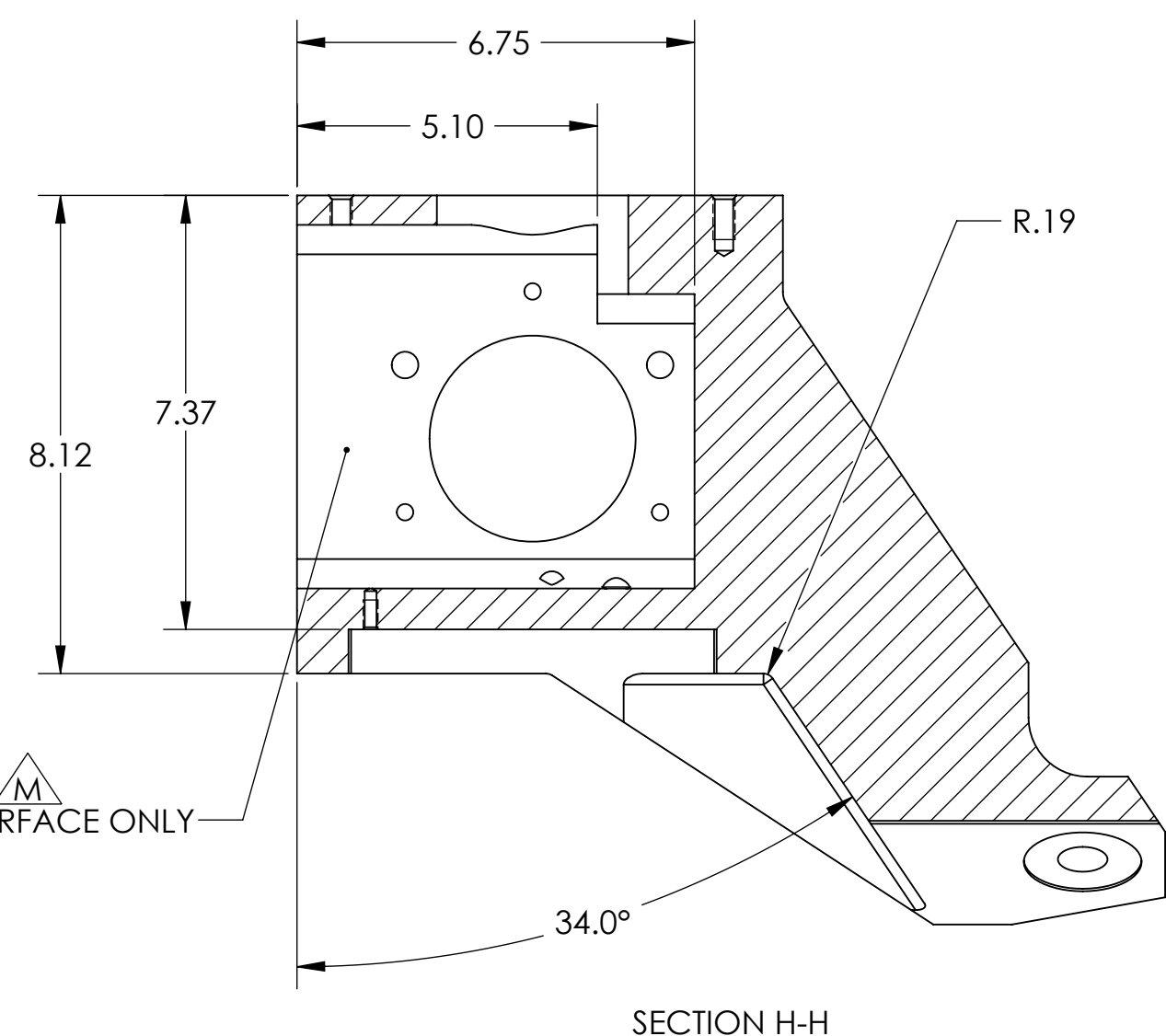
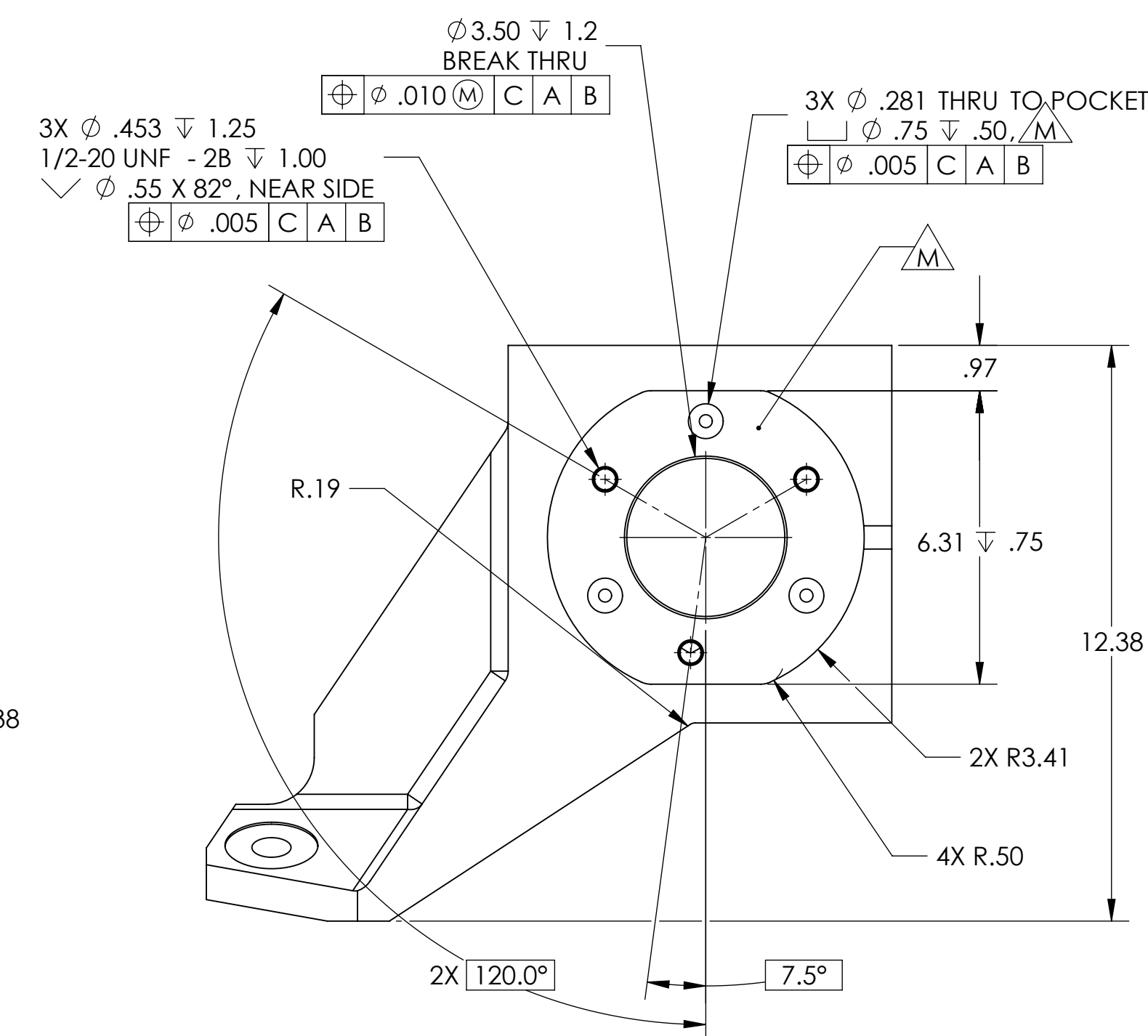
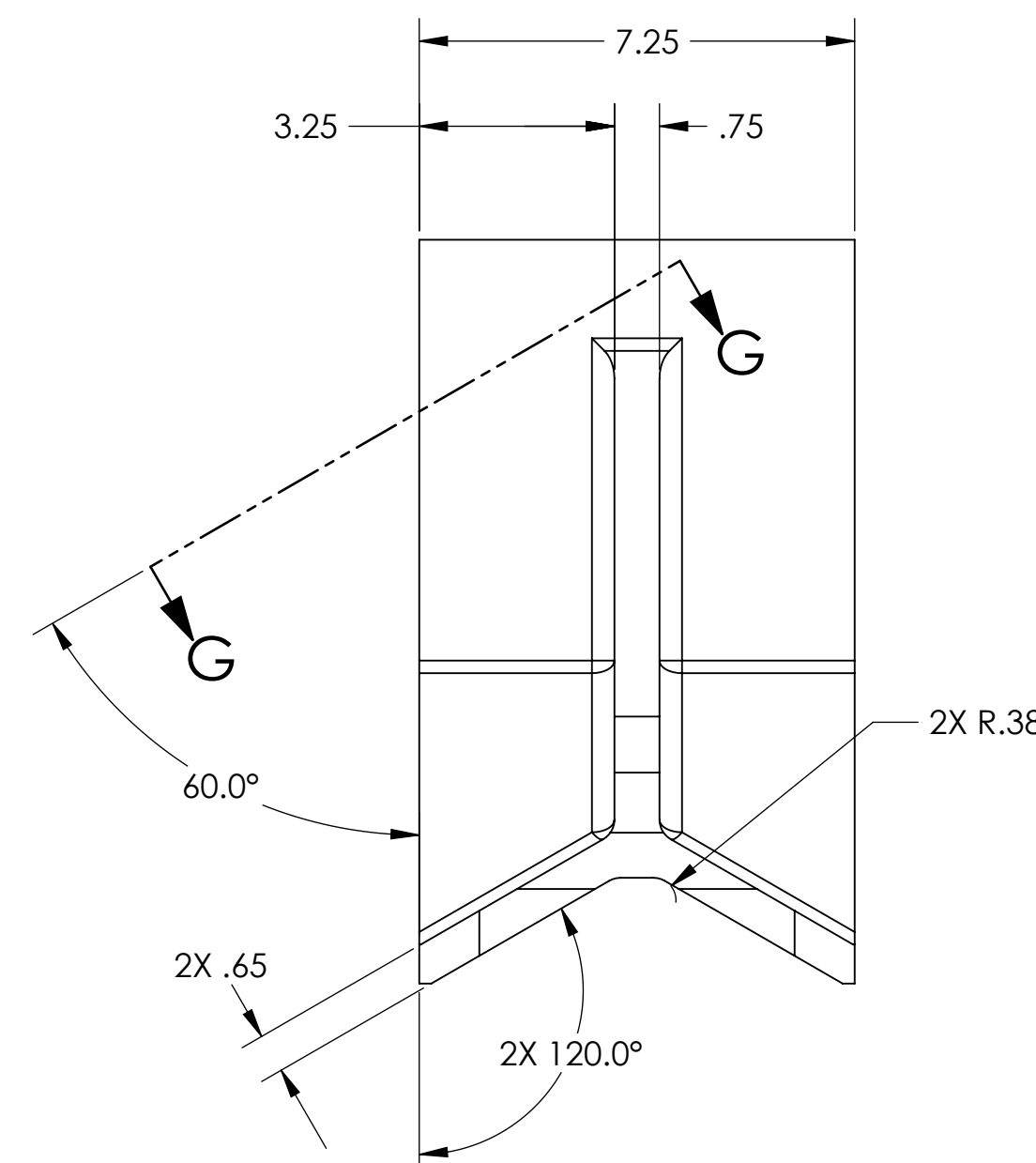
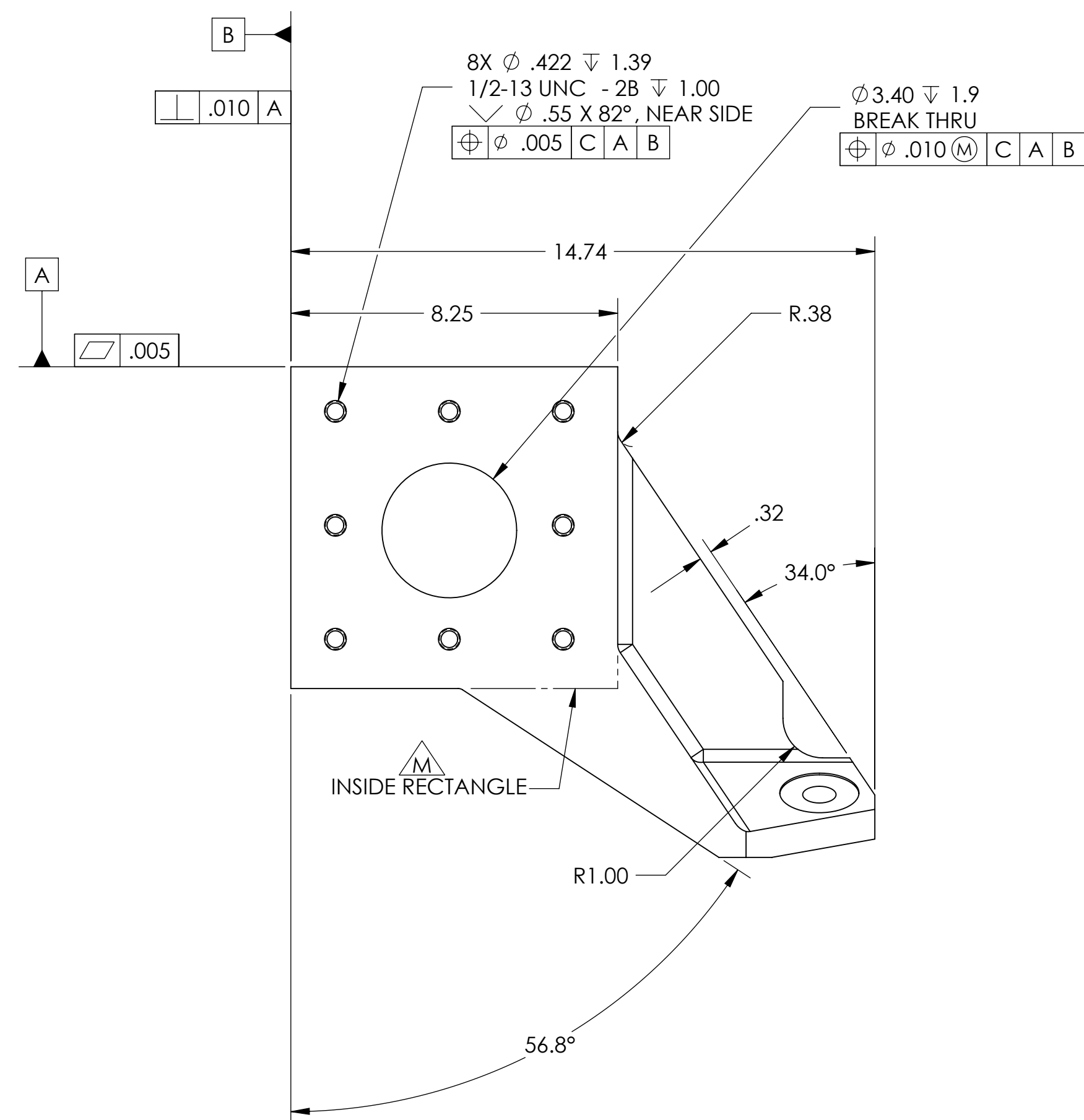
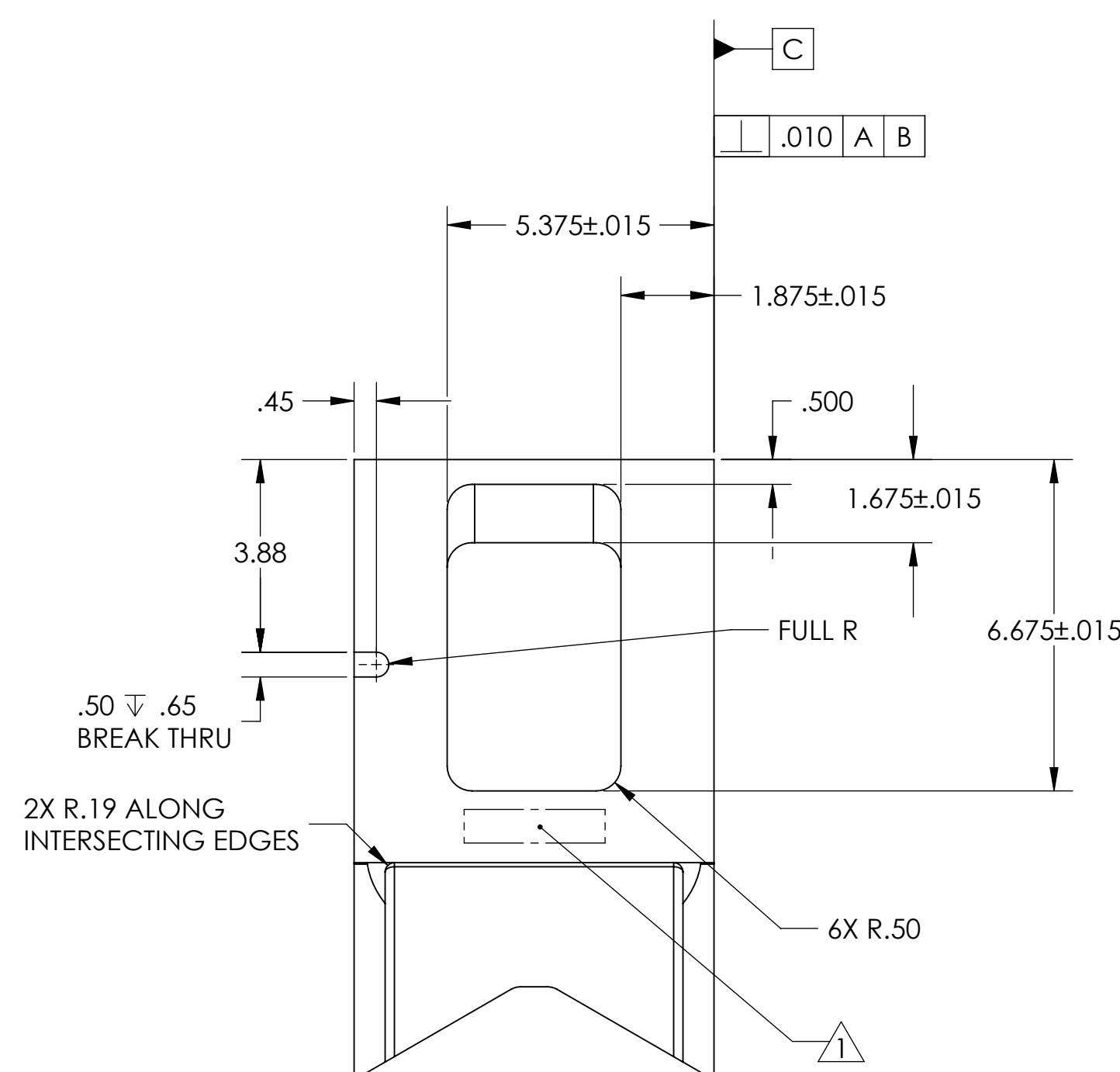
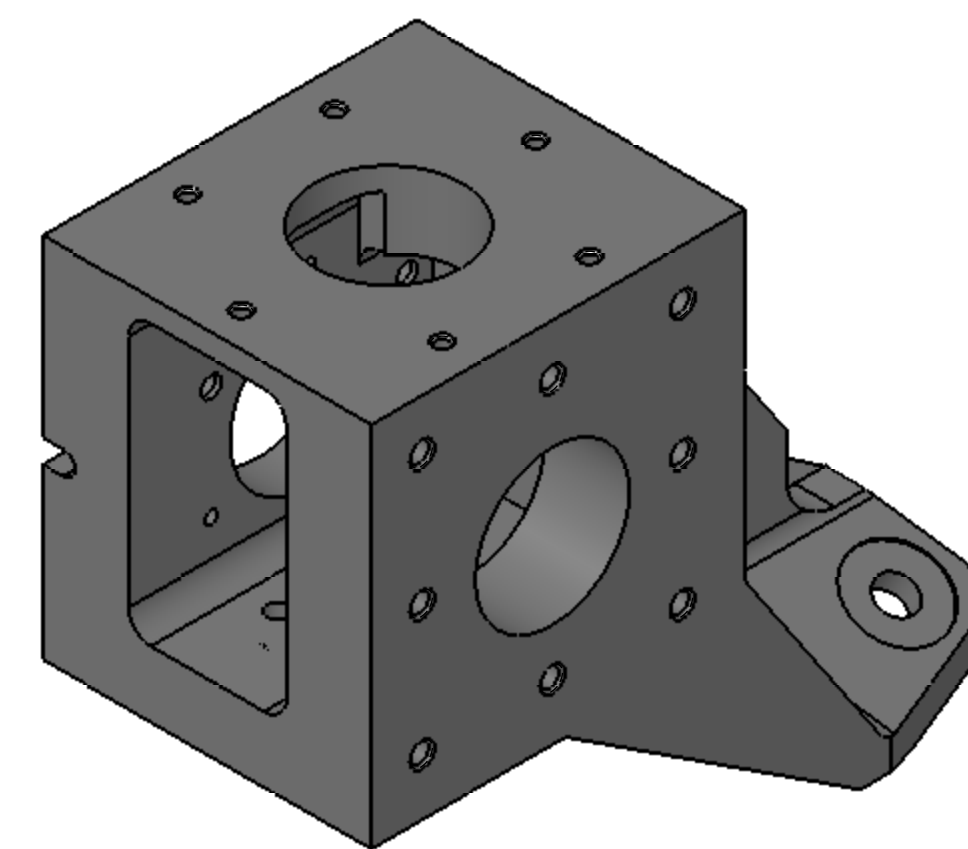
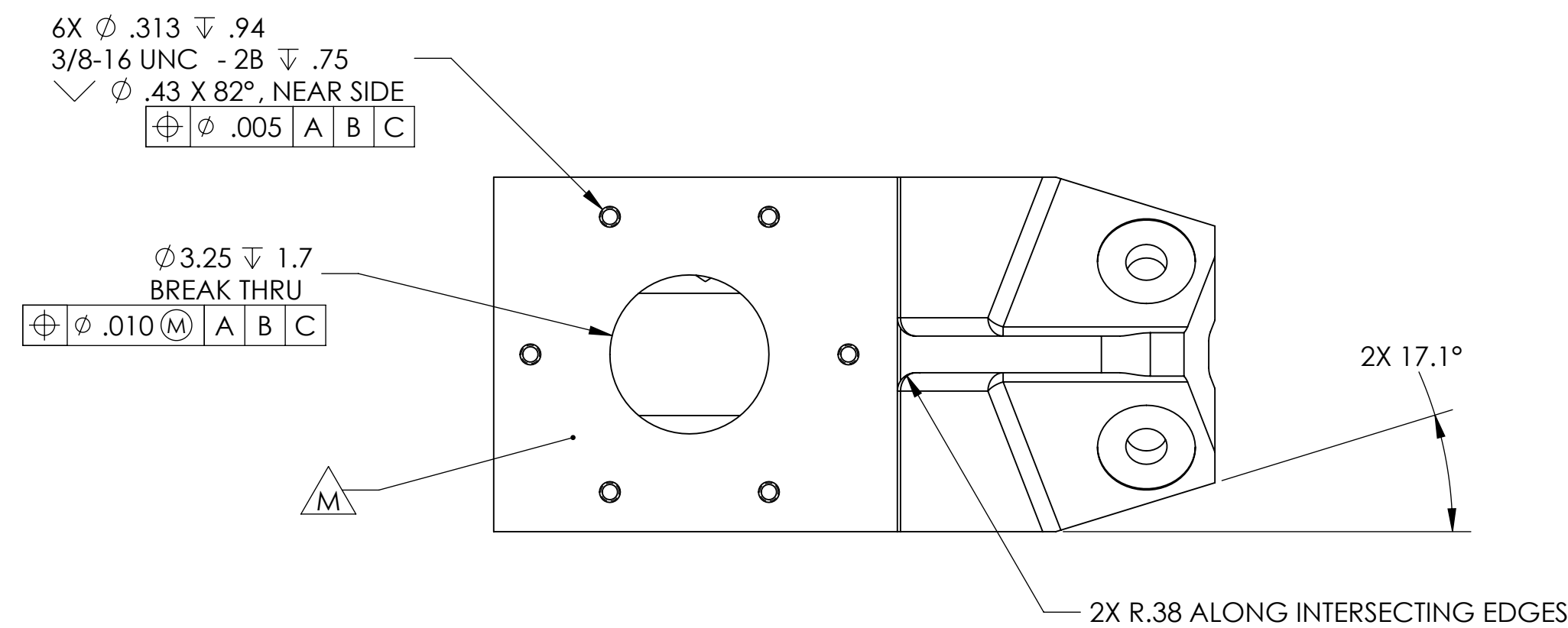
3) APPLY "OXISOLV RUST INHIBITOR" TO ALL UNPAINTED SURFACES, PER MFG INSTRUCTIONS. REMOVE PLUGS FROM ALL HOLES.



CONFIGURATION: **AdLIGO, LEFT**
TYPE 02

NOTES: (UNLESS OTHERWISE SPECIFIED)		DIMENSIONS ARE IN INCHES		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY IGR, GLASGOW UNIVERSITY GEO 400 GROUP	
1. DO NOT SCALE FROM DRAWING.	2. REMOVE ALL SHARP EDGES, LEAVE .005 MIN CHAMFER, OR .005 MIN RADIUS.	TOLERANCES:	SURFACE FINISH:	SYSTEM:	ADVANCED LIGO
3. ALL MACHINING FLUIDS MUST BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SILICONE. E.G. MICRON CHEMTECH 410.	4. CLEAN THROUGHTS TO REMOVE ALL OIL, DIRT, AND CHIPS.	XXX ±0.015	XXX ±0.015	XXX ±0.005	
MATERIAL: LOW CARBON STEEL		ANGULAR: ±0.5°			
FINISH: SEE NOTES		SUB-SYSTEM: SEI			
PART NAME: HEPI CROSSBEAM FOOT		NEXT ASSY: D030326			
DRAWN: [Signature]		DATE: 07/21/2020		SIZE: DWG. NO. D020195	
CHECKED: [Signature]		DATE: 07/21/2020		SCALE: 1:3	
APPROVED: [Signature]		DATE: 07/21/2020		PROJECTION: [Symbol]	
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:		SHEET 3 OF 4			

REV.	DATE	DCN #	APPROVAL	DESCRIPTION
				See Sheet 1



SECTION G-G

NOTES:

1) WHERE INDICATED, MECHANICALLY SCRIBE, STAMP, OR ENGRAVE THE FOLLOWING INFORMATION AS SHOWN BELOW: PART NUMBER-REVISION, TYPE, FOLLOWED ON THE NEXT LINE WITH A UNIQUE 3-DIGIT SERIAL NUMBER STARTING AT 001 FOR THE FIRST PART AND INCREMENTING THEREAFTER. USE 0.12" TALL CHARACTERS UNLESS PART SIZE DICTATES SMALLER. LETTERING MUST BE VISIBLE AFTER PAINTING, IF APPLICABLE.

D020195-D, TYPE 03
 S/N - ###

2) PLUG ALL SCREW HOLES, BOTH TAPPED AND THRU.

3) PAINT ALL SURFACES, EXCEPT WHERE INDICATED BY (M). USE MEDIUM BLUE SHERWIN WILLIAMS (POLANE (R) T-PLUS POLYURETHANE ENAMEL). PRIME WITH SHERWIN WILLIAMS INDUSTRIAL WASH PRIMER P60G2.

3) APPLY "OXISOLV RUST INHIBITOR" TO ALL UNPAINTED SURFACES, PER MFG INSTRUCTIONS. REMOVE PLUGS FROM ALL HOLES.

CONFIGURATION: AdLIGO, RIGHT
 TYPE 03

NOTES: (UNLESS OTHERWISE SPECIFIED)		DIMENSIONS ARE IN INCHES		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY IGR, GLASSGOW UNIVERSITY GEO 600 GROUP	
1. DO NOT SCALE FROM DRAWING.	2. REMOVE ALL SHARP EDGES, LEAVE .003 X .45" MIN CHAMFER, OR .005 MIN RADIUS.	TOLERANCES:	SURFACE FINISH:	SYSTEM	ADVANCED LIGO
3. ALL MACHINING FLUIDS MUST BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SODIUM. E.G., MILACRON CMTech 410.	4. CLEAN THOROUGHLY TO REMOVE ALL OIL, DIRT, AND CHIPS.	XXX ± 0.015	XXX ± 0.005	ANGULAR ± 0.5°	
MATERIAL		FINISH		SUB-SYSTEM	
LOW CARBON STEEL		SEE NOTES		SEI	
PART NAME		PART NAME		NEXT ASSY	
HEPI CROSSBEAM FOOT		HEPI CROSSBEAM FOOT		D030326	
DRAWN		DATE		SIZE	
CHECKED		APPROVED		DWG. NO.	
APPROVED		SCALE: 1:3		D020195	
				PROJECTION:	
				SHEET 4 OF 4	