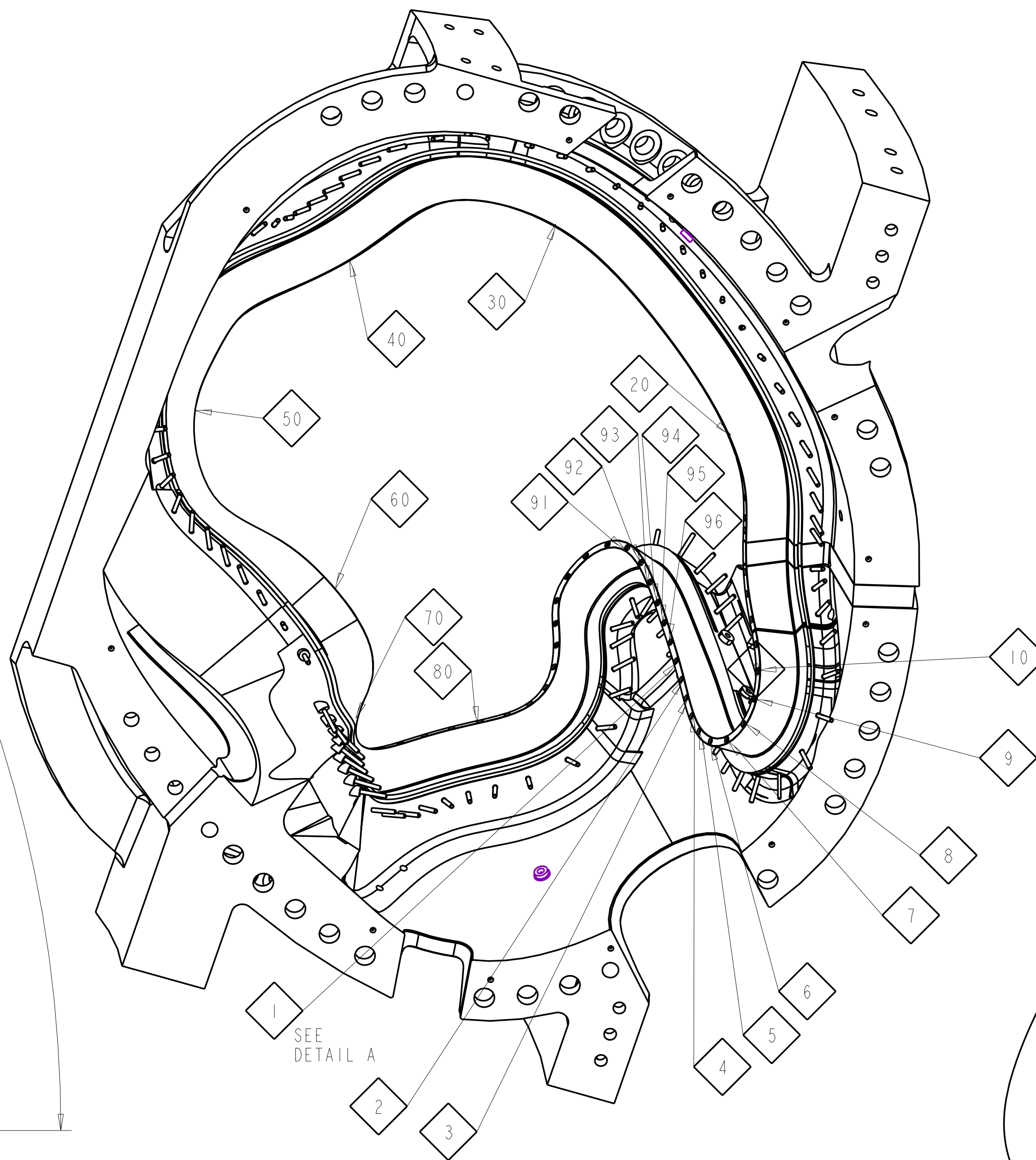
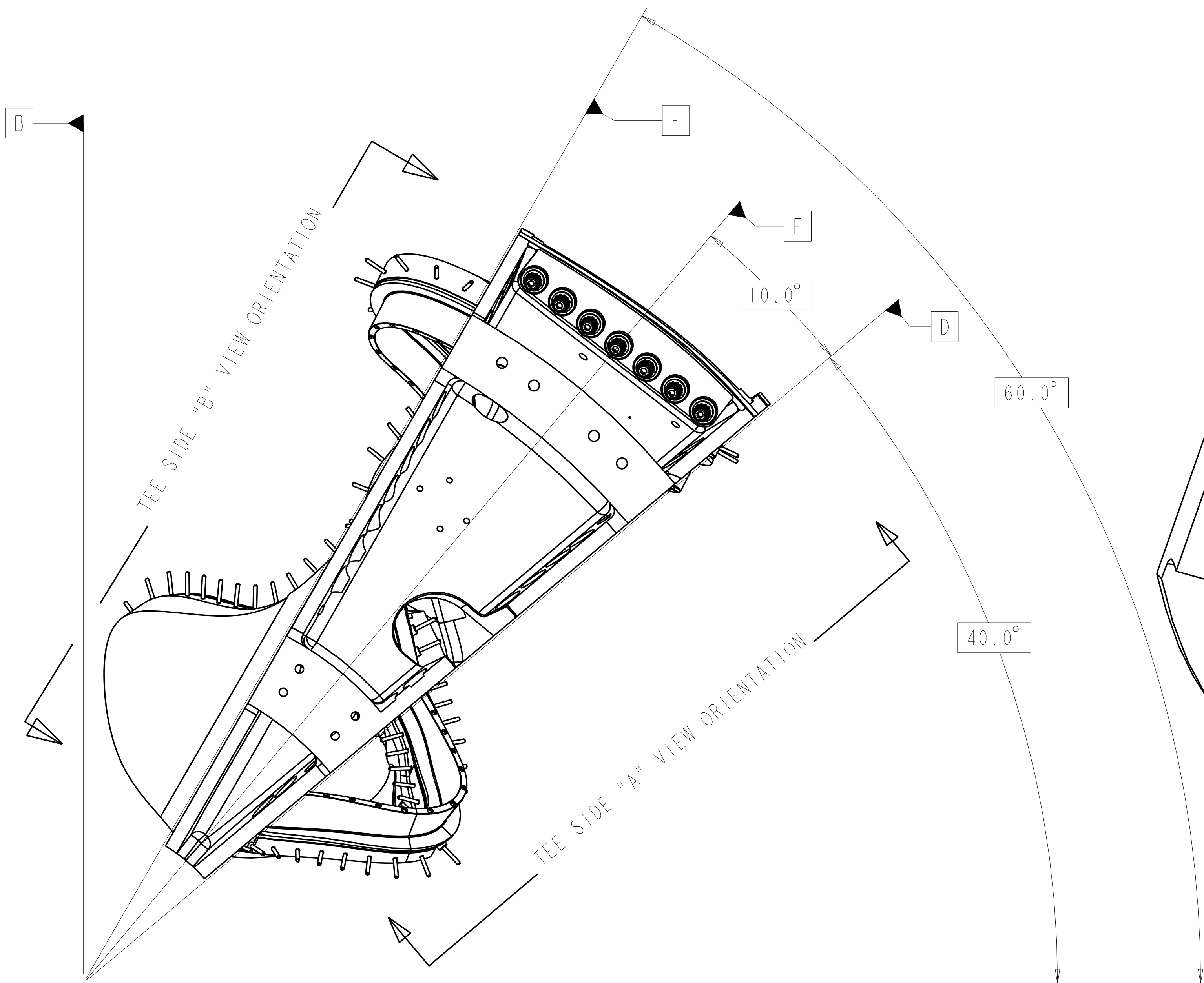
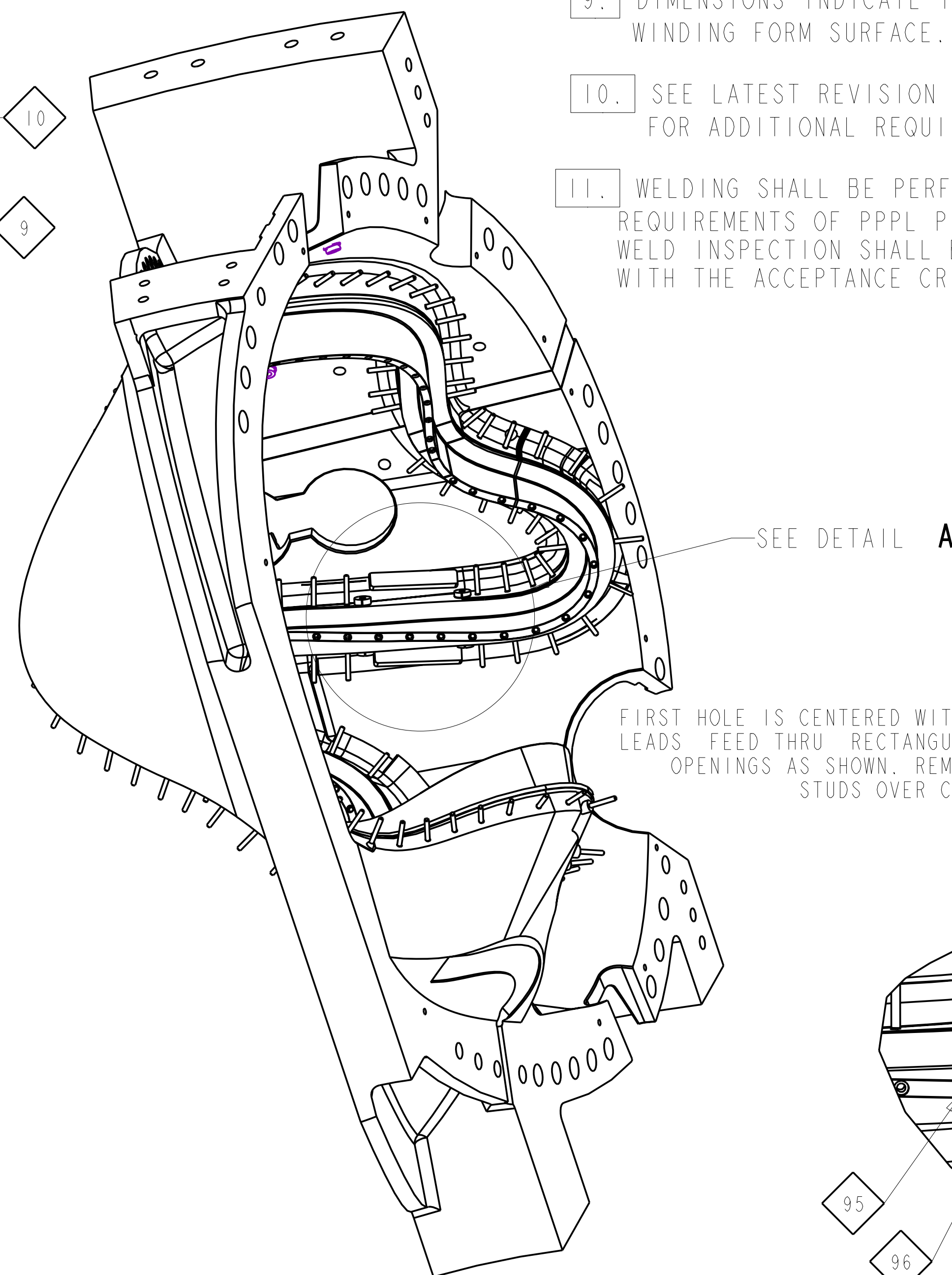


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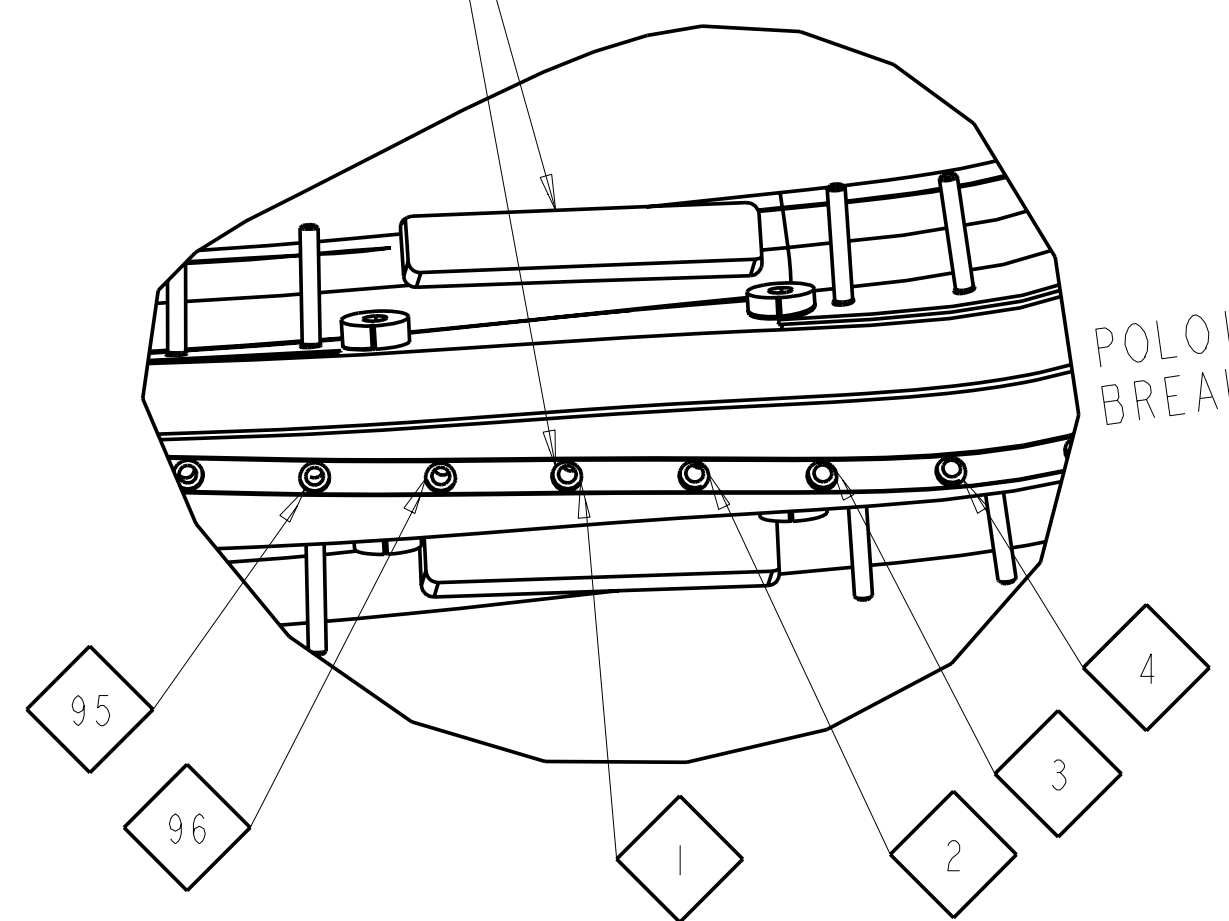
- 1. DRAWING PREPARED IN ACCORDANCE WITH ASME Y14.8M-1996.
- 2. INTERPRET DIMENSIONS AND TOLERANCES PER ANSI Y14.5M-1994.
- 3. DIMENSIONS ARE IN INCHES.
- 4. DRAWING DEPICTS FINAL MACHINED STATE OF PART DEFINED BY PRO/ENGINEER FILE SE141-123.PRT.
- 5. ITEMS 3 AND 4 ARE SHOWN FOR REFERENCE ONLY.
- 6. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE RELATED TO DATUM A - (PRIMARY X-Y PLANE, TOP)
DATUM B - (SECONDARY Y-Z PLANE, SIDE)
DATUM C - (TERTIARY X-Z PLANE, FRONT)
- 7. DIMENSIONS APPLY AT TEMPERATURE OF 20-30°C (68-86°F)
- 8. APPROXIMATE WEIGHT = 5616 LBS
- 9. DIMENSIONS INDICATE INTERSECTION OF HOLE AXIS AND WINDING FORM SURFACE.
- 10. SEE LATEST REVISION OF PROCEDURE D-NCSX-MCF-001 FOR ADDITIONAL REQUIREMENTS.
- 11. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF PPPL PROCEDURE NO. ENG-037. VISUAL WELD INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE ACCEPTANCE CRITERIA OF AWS D1.6.



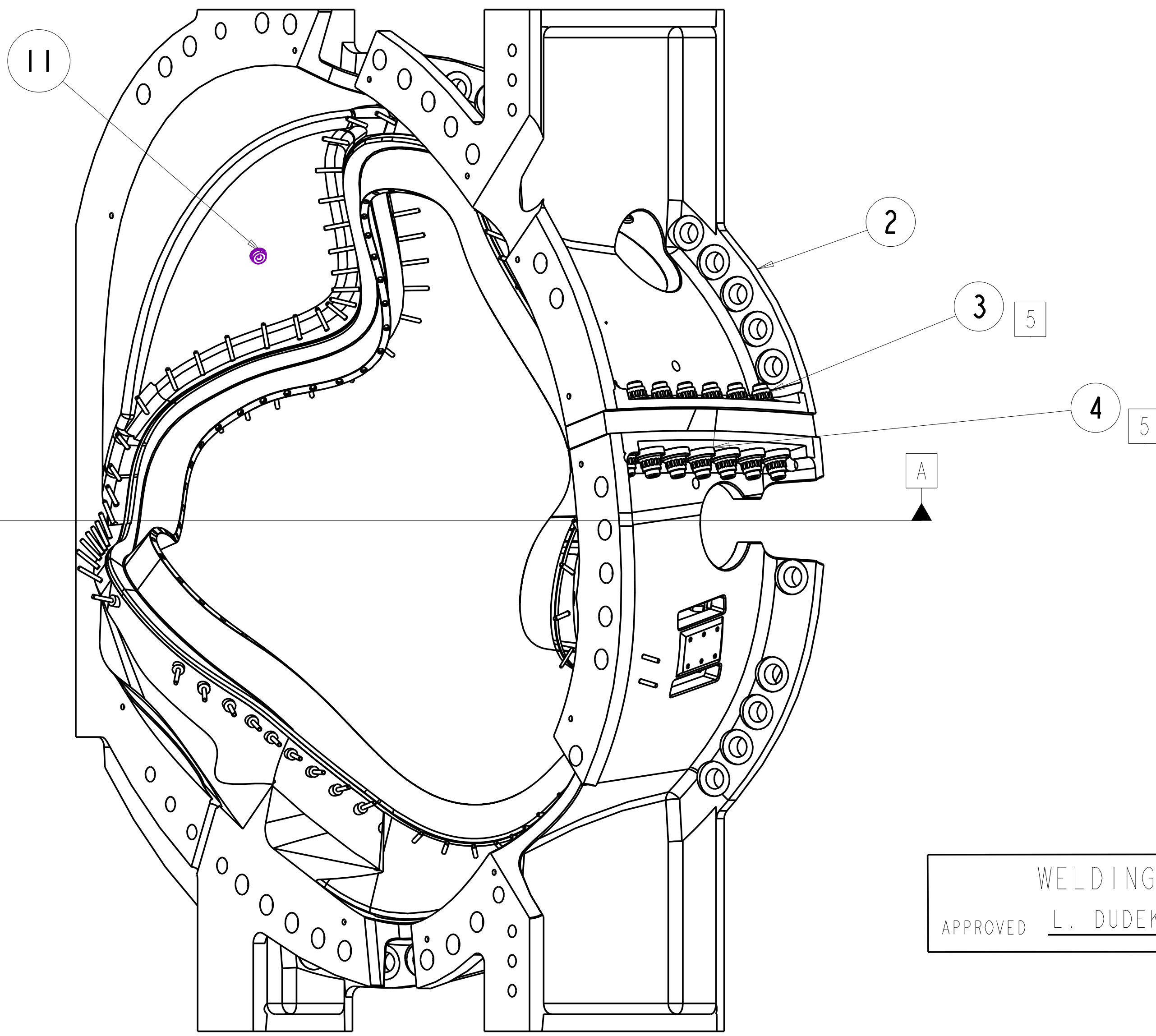
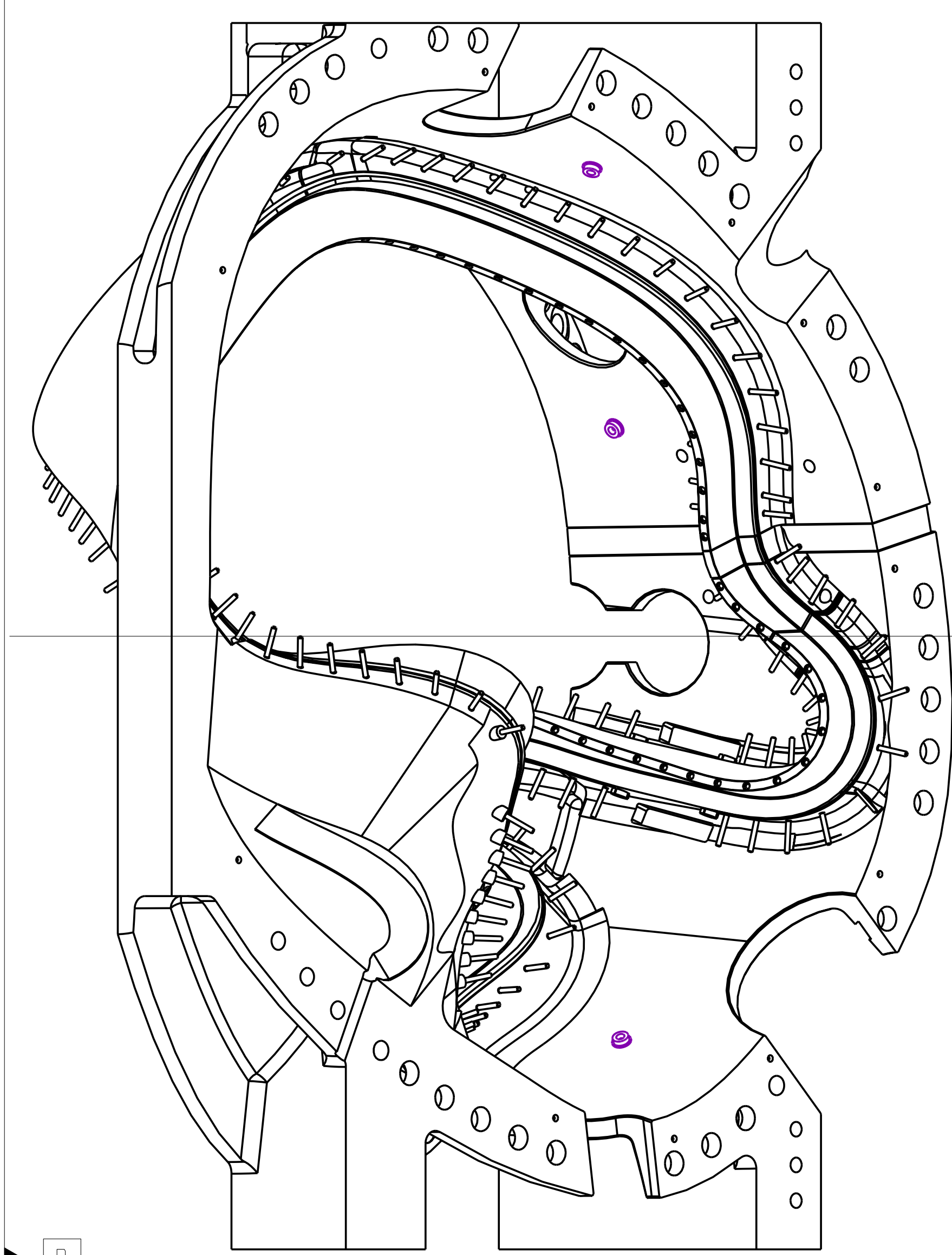
HOLE NUMBERING SEQUENCE
SCALE 0.125



ISOMETRIC VIEW TO INDICATE START OF HOLE NUMBERING SEQUENCE
SCALE 0.125



DETAIL A
SCALE 0.25



SCALE 0.125

WELDING ENGINEER
APPROVED L. DUDEK DATE: 08/05

REV	ISSY	CD	CODE	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL	SPECIFICATION	FIND NO
		2		-12	STUD, 3/8-16 UNC-2A X 1.75 LG	UNS S31600	N/A	12
		AR		SE780-011	METROLOGY TARGET		10	11
		J		-10	LEAD BLOCK MOUNT #4	UNS S31600	N/A	10
		I		-9	LEAD BLOCK MOUNT #3	UNS S31600	N/A	9
		I		-8	LEAD BLOCK MOUNT #2	UNS S31600	N/A	8
		I		-7	LEAD BLOCK MOUNT #1	UNS S31600	N/A	7
		10		-6	ADAPTER, 1 DIA X.84 LNG	UNS S31600	N/A	6
		179		-5	STUD, 3/8-16UNC -2A X 2.5 LG	UNS S31600	N/A	5
		7		-4	POLOIDAL BREAK BOLT ASSEMBLY			4
		I		-3	POLOIDAL BREAK ASSEMBLY			3
		I		-2	LAWTON STOCKED MCFW			2
		AR		X	MODULAR COIL TYPE - C WINDING FORM AND STUD WELDMENT			1

PARTS LIST

**RELEASED FOR
FABRICATION / INSTALLATION**
PPPL Drafting:

NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY, COMPLETENESS OR USEFULNESS OF THE INFORMATION OR STATEMENTS CONTAINED IN THESE DRAWINGS, OR THAT THE USE OR DISCLOSURE OF ANY INFORMATION, APPARATUS, METHOD OR PROCESS DISCLOSED IN THESE DRAWINGS MAY NOT INFRINGE PRIVATE RIGHTS OF OTHERS. NO LIABILITY IS ASSUMED WITH RESPECT TO THE USE OF, OR FOR DAMAGES RESULTING FROM THE USE OF, ANY INFORMATION, APPARATUS, METHOD OR PROCESS DISCLOSED IN THESE DRAWINGS. DRAWINGS MADE AVAILABLE FOR INFORMATION TO BIDDER ARE NOT TO BE USED FOR OTHER PURPOSES, AND ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING CONTRACTOR.

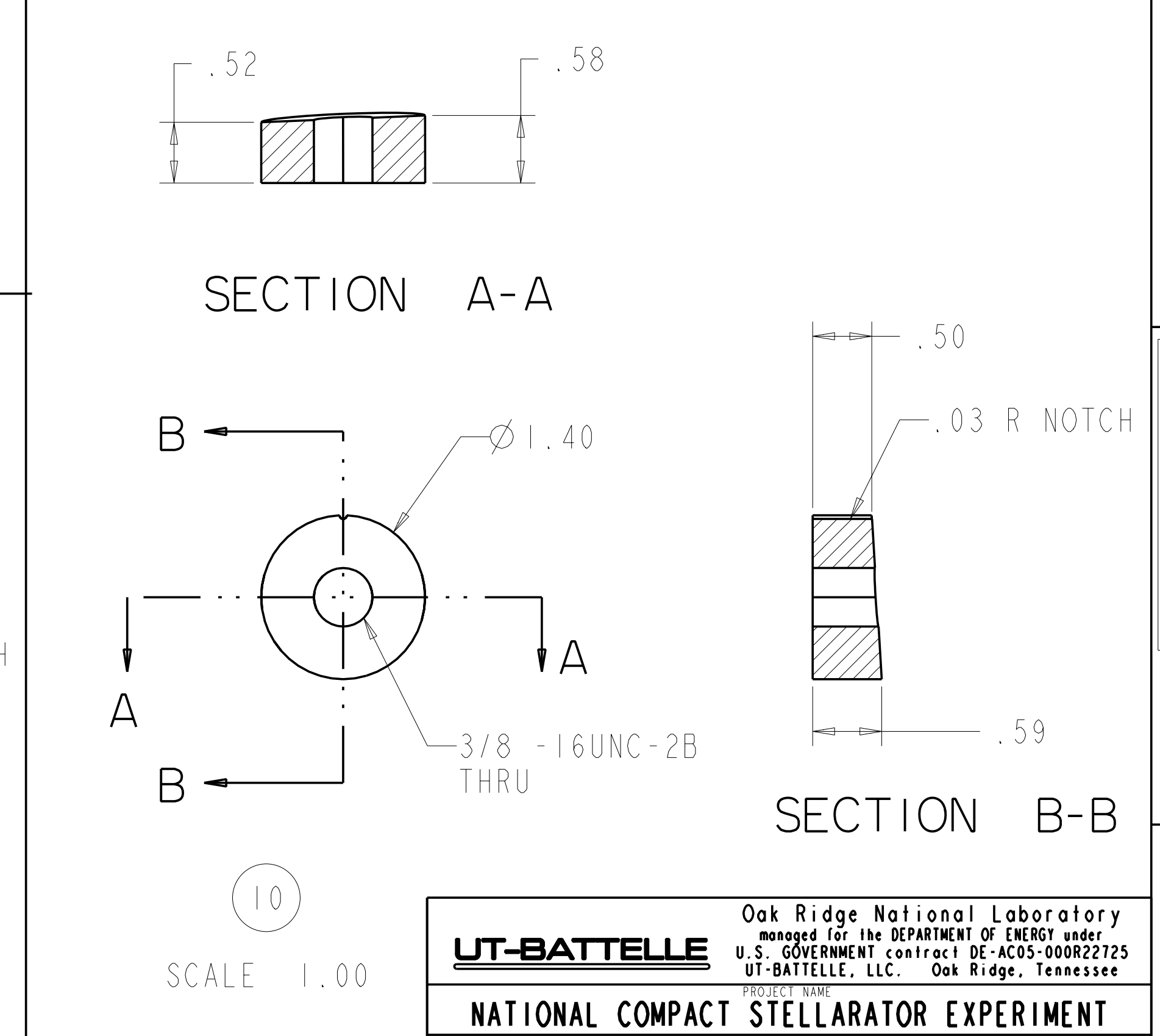
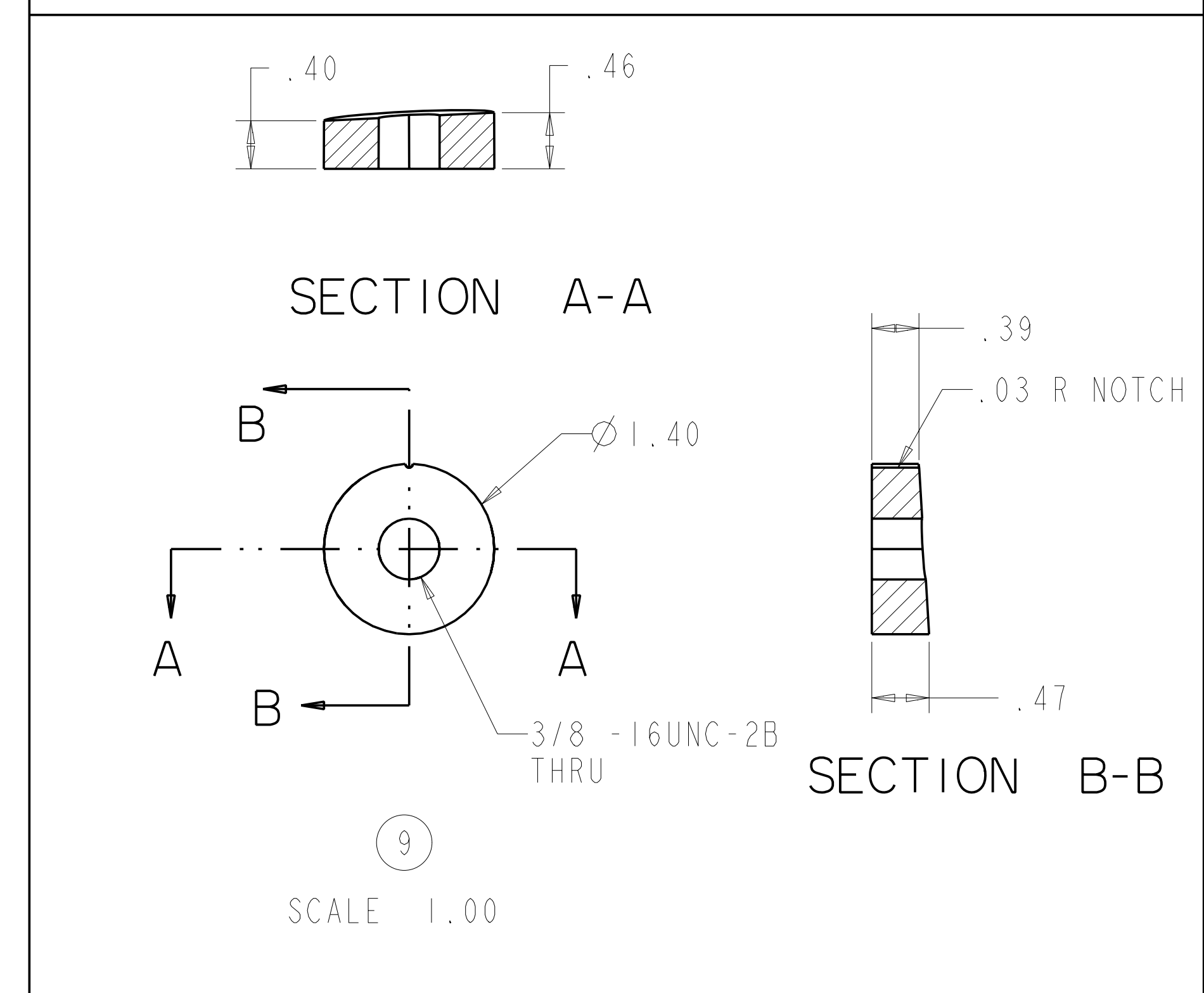
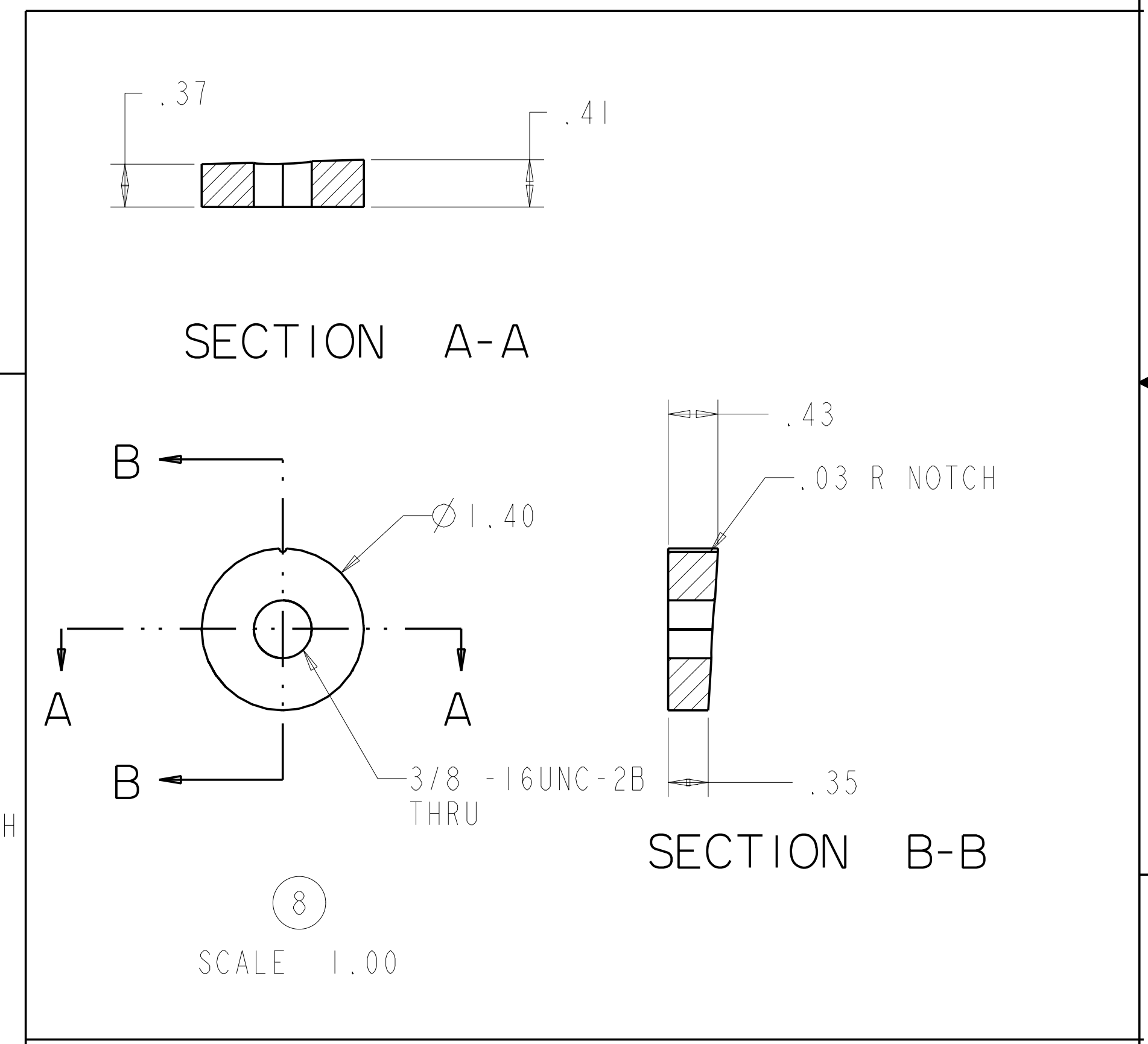
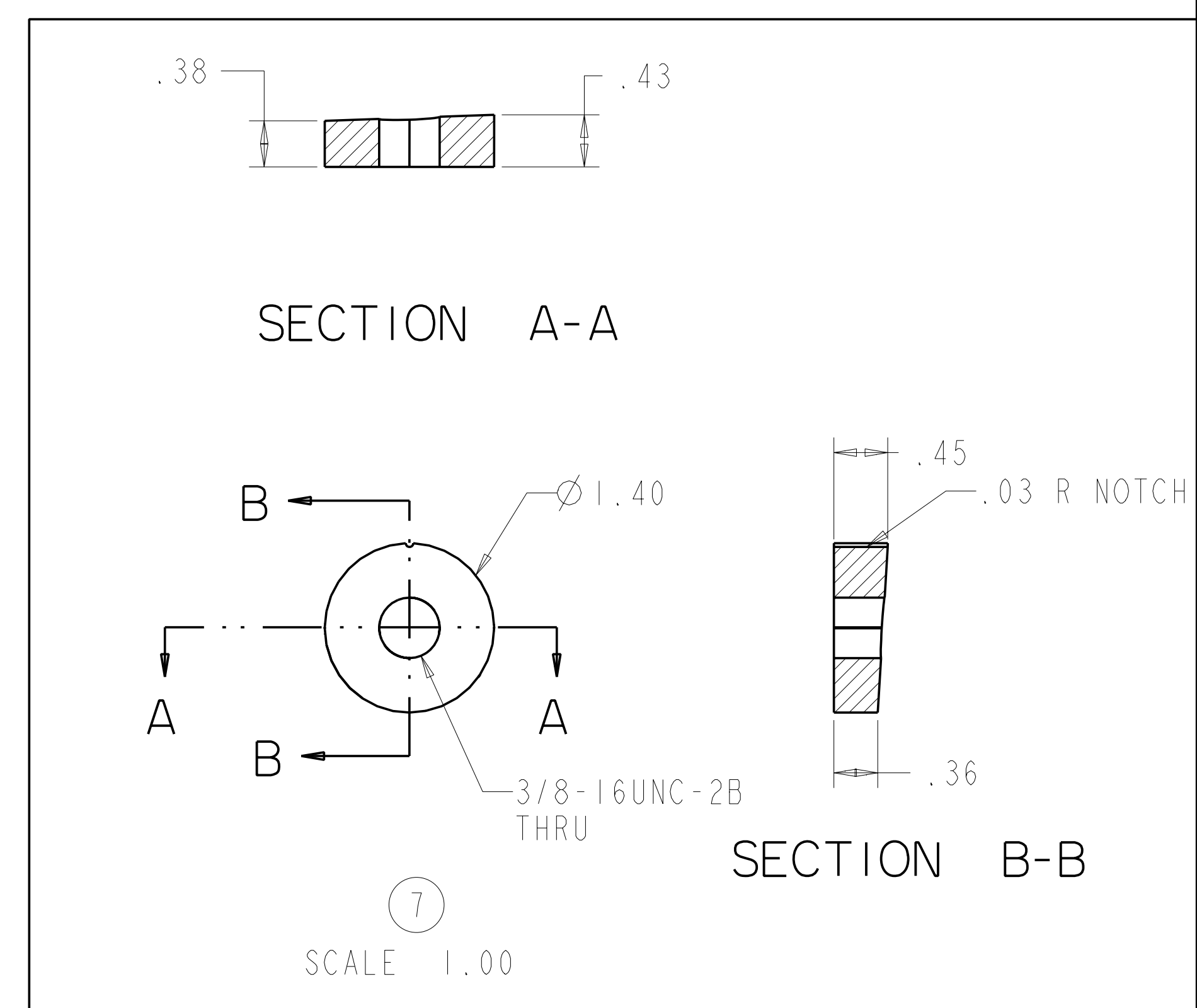
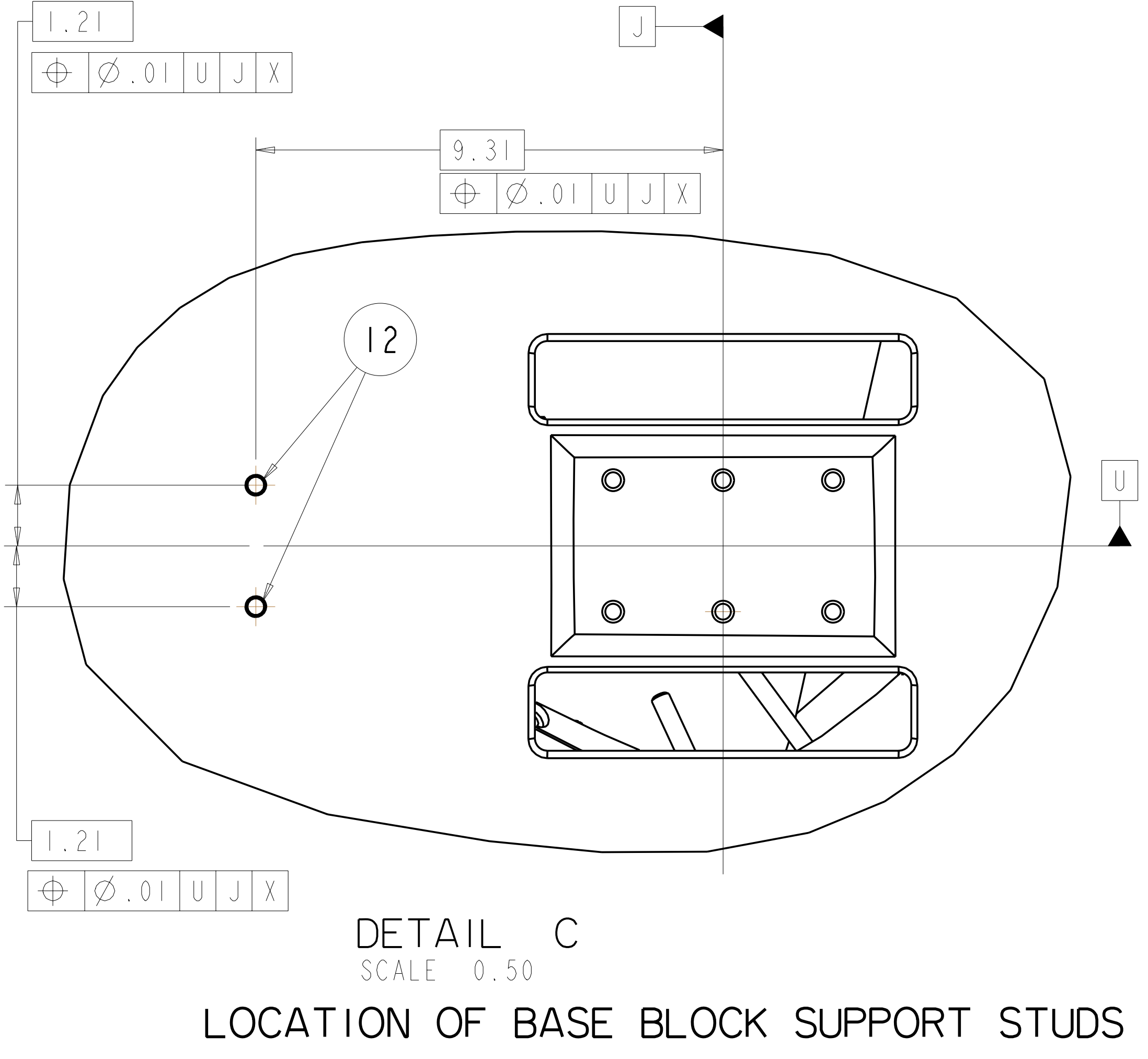
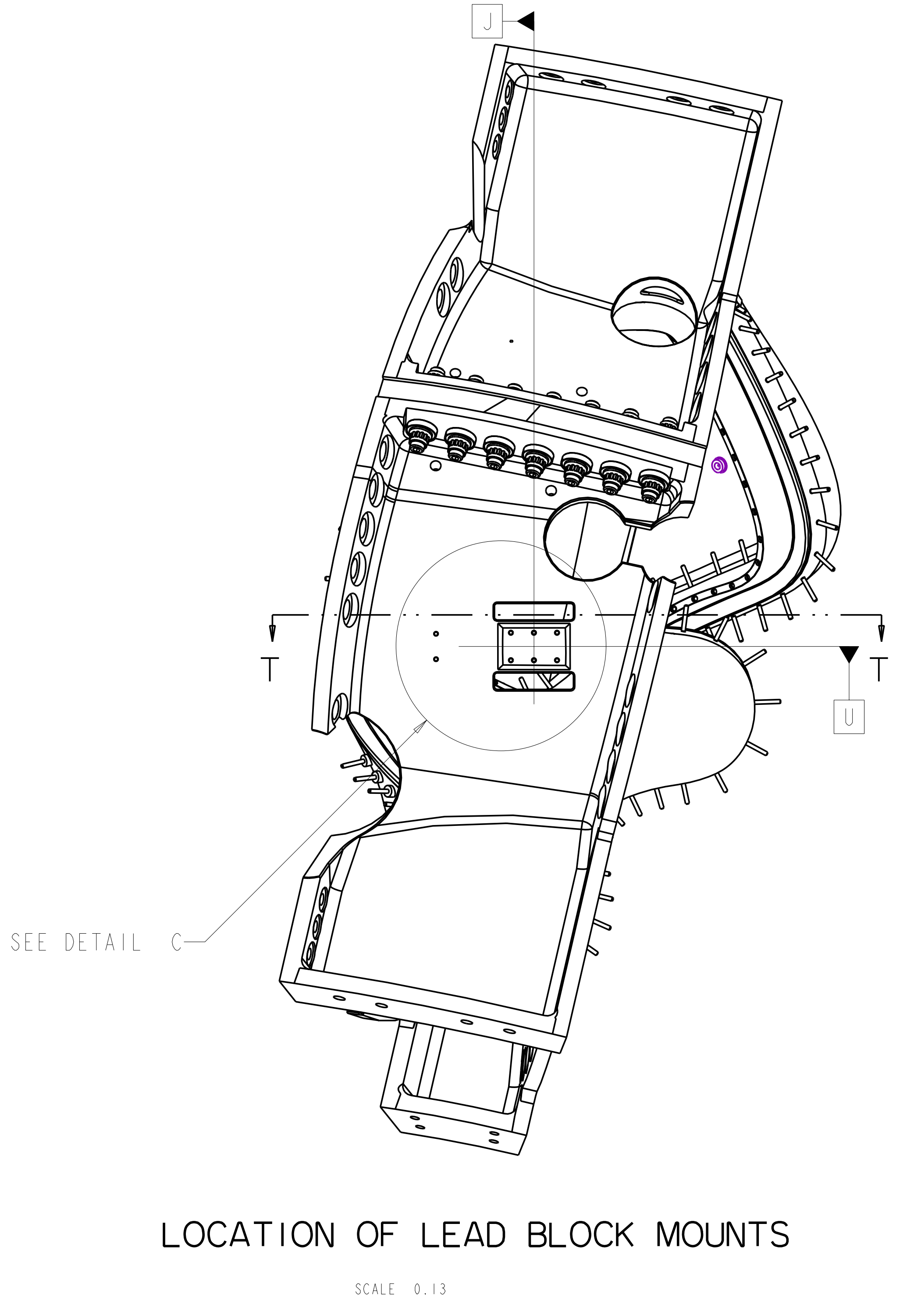
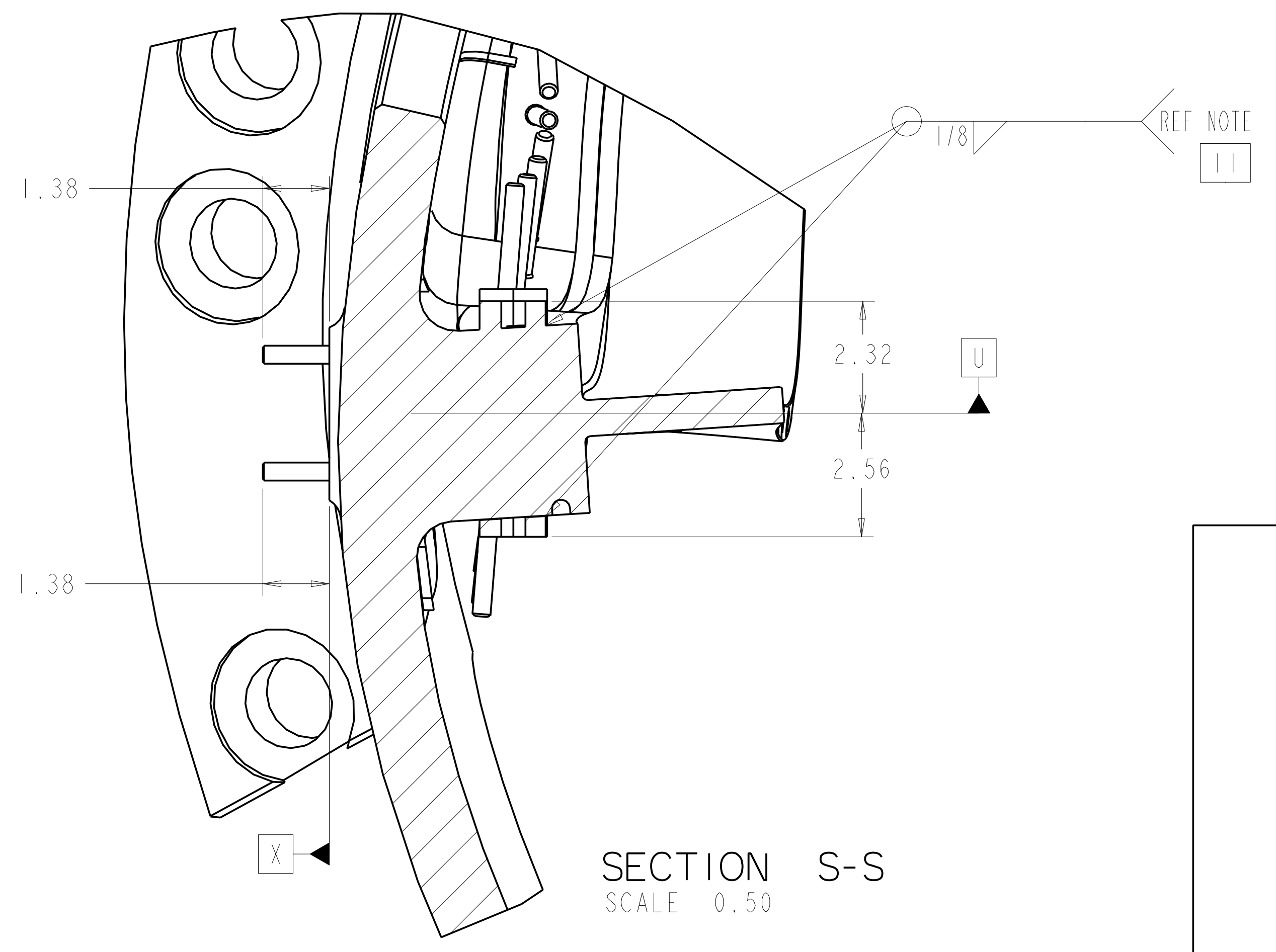
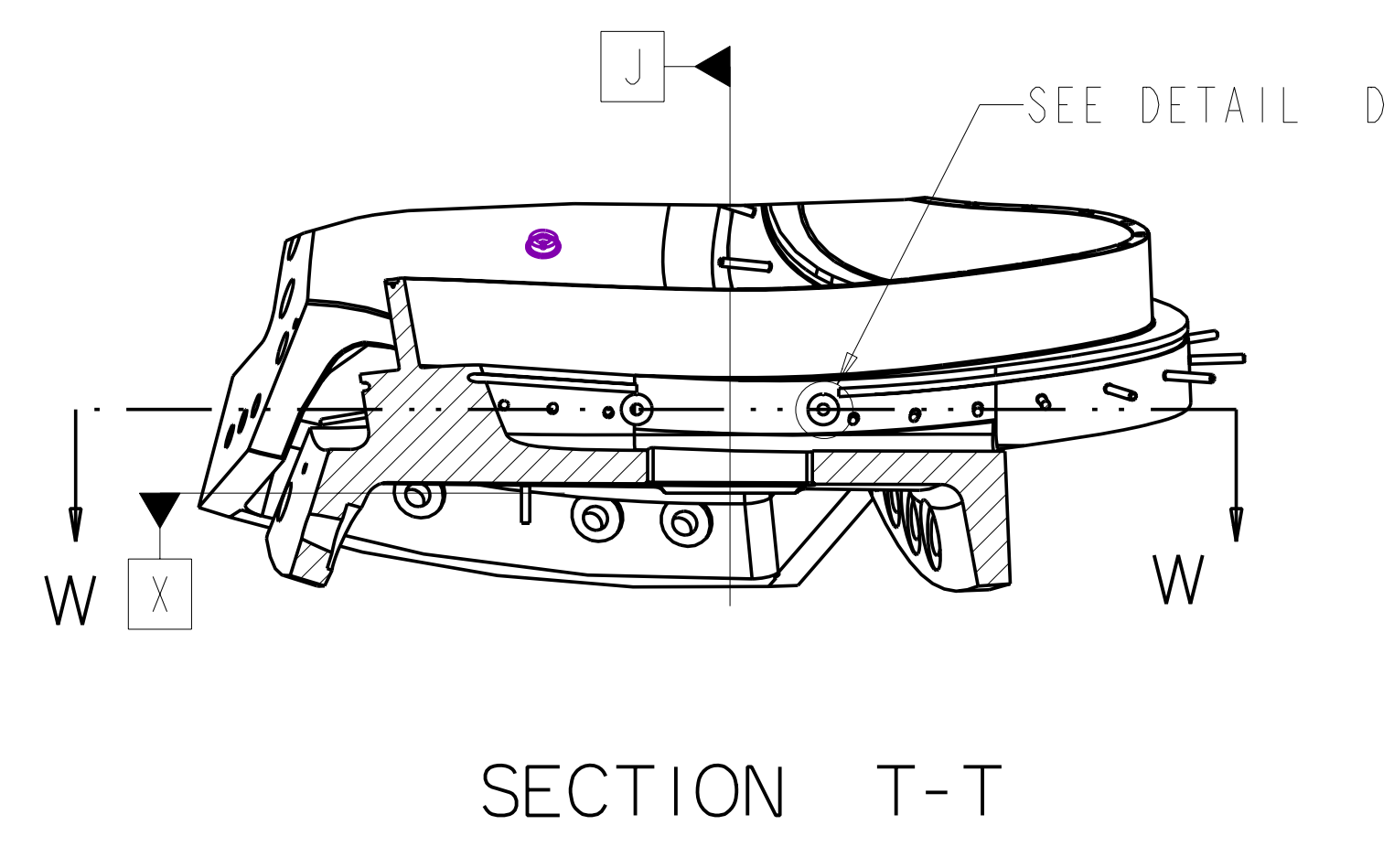
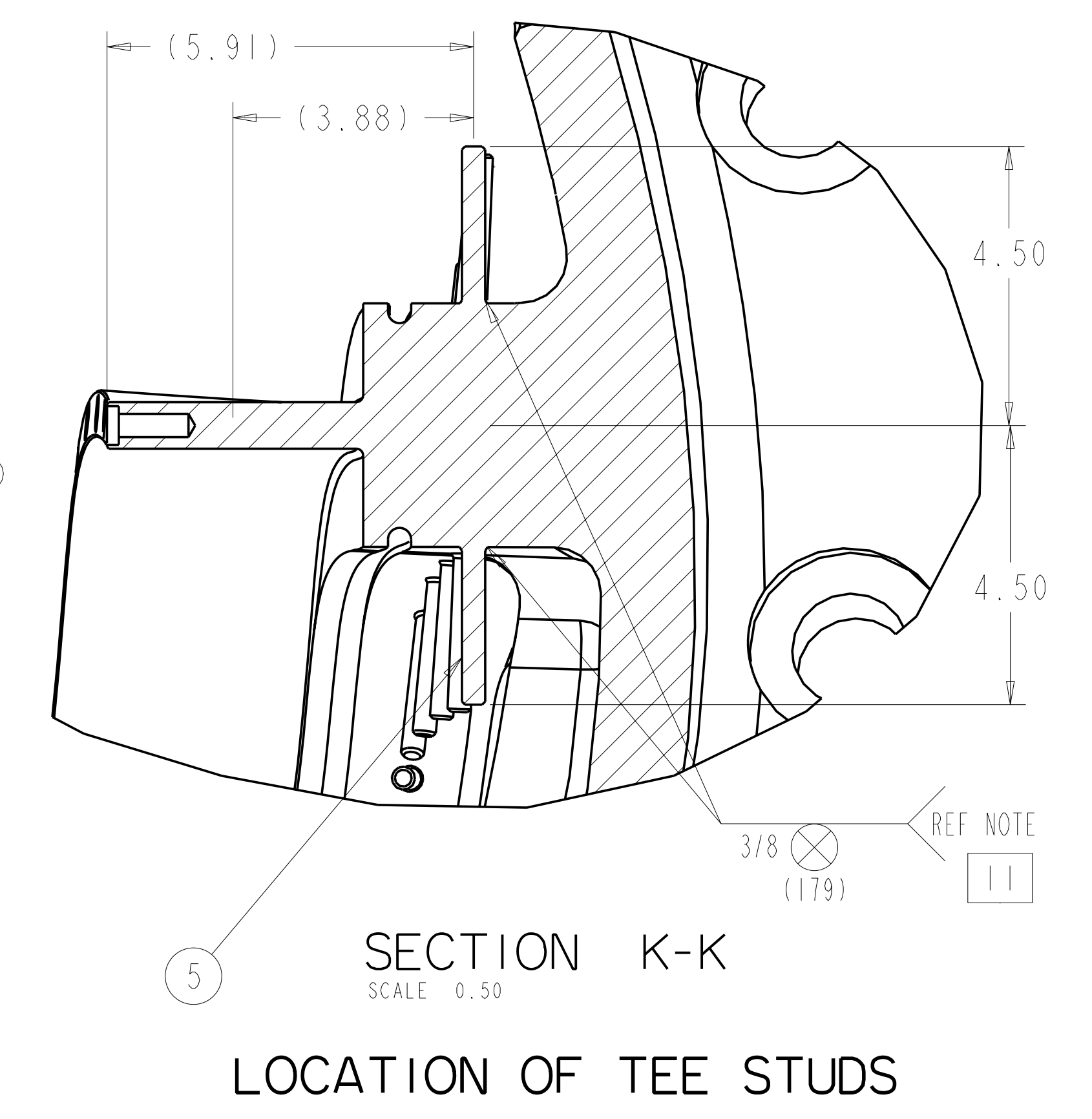
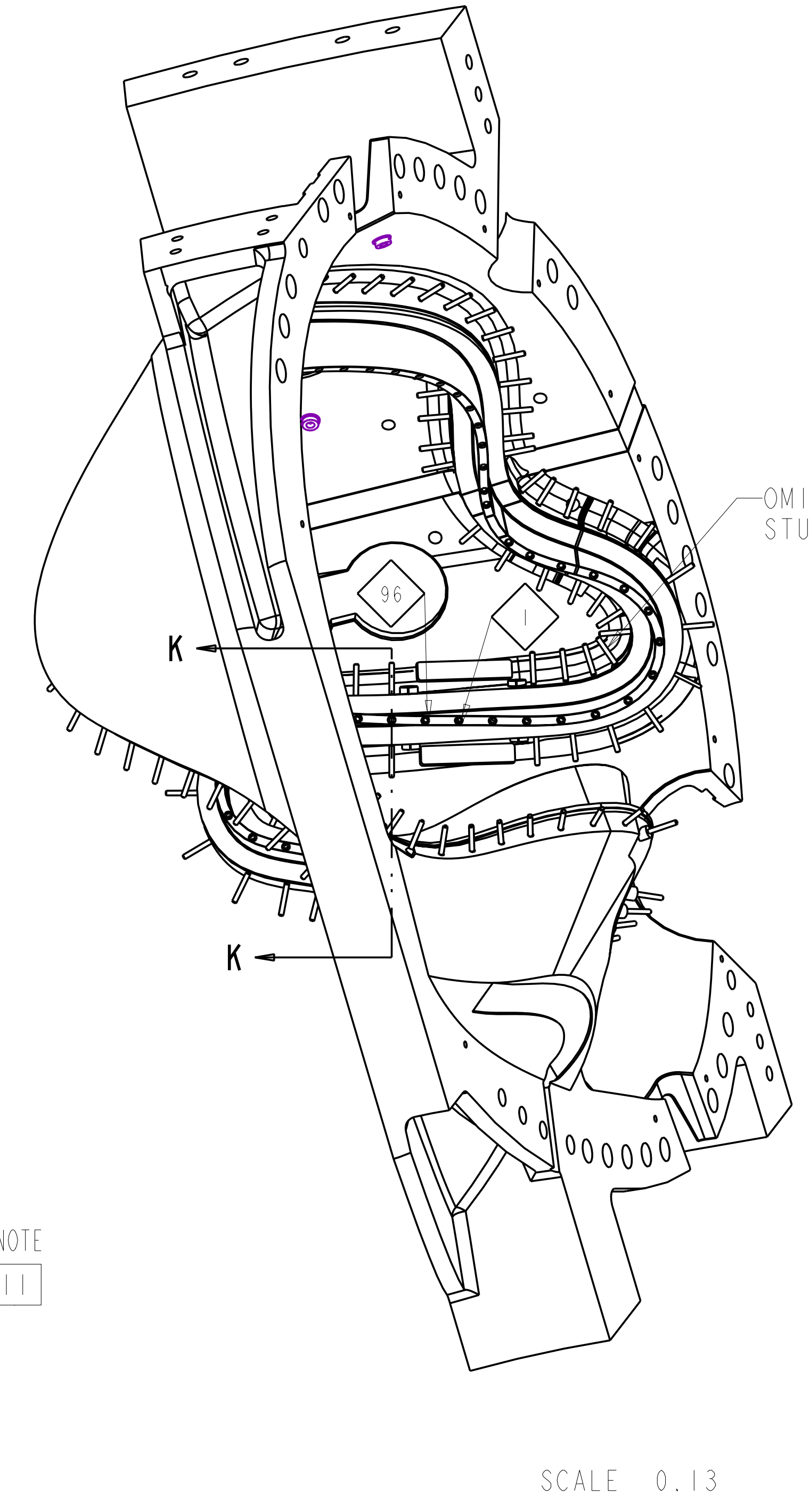
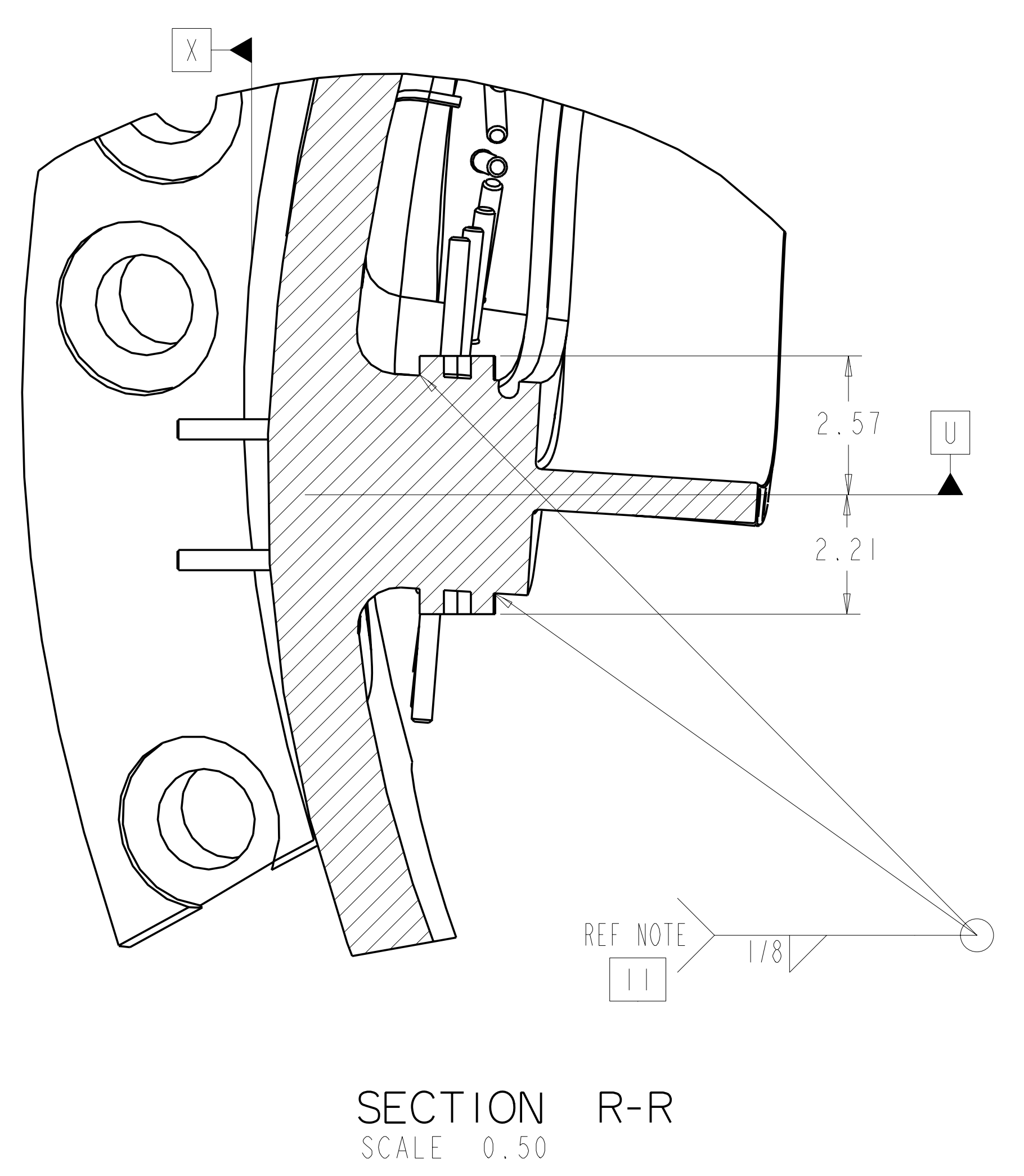
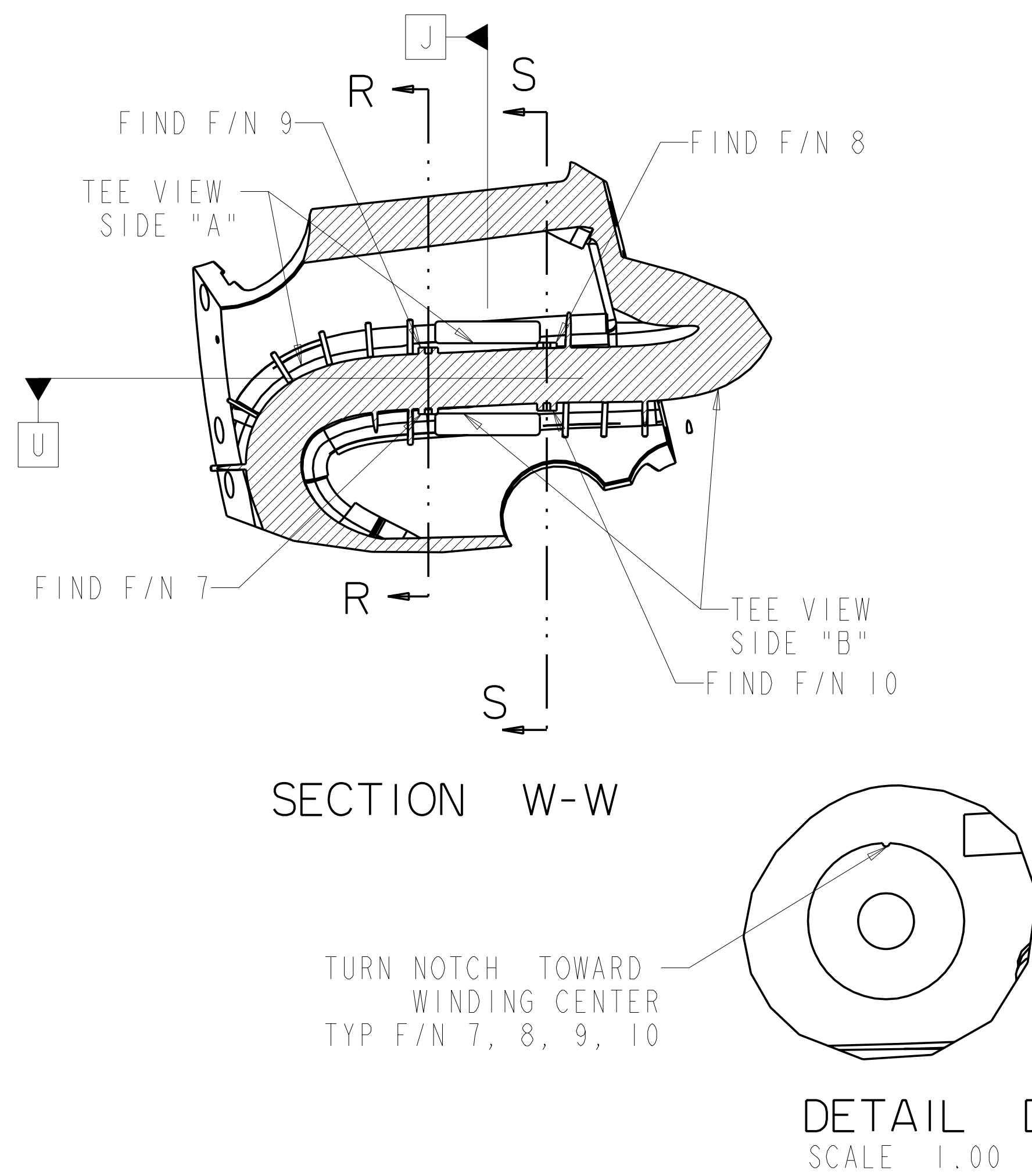
P THIS DRAWING PRODUCED ON PRO-ENGINEER

REV	DESCRIPTION	BY	DATE	CHK	DEPT	DATE	PE	REG	DATE	DRNL	DOE	DATE
0	INITIAL RELEASE	GLL	8-05				DEW					
	REVISION OR ISSUE PURPOSE											

SCALE NOTED		DES: D WILLIAMSON	08/05
TOLERANCES UNLESS OTHERWISE SPECIFIED		DRW: G LOVETT	08/05
FRACTIONS		CHK: T BROWN	08/05
XX DECIMALS ±.01		SECT:	
XXX DECIMALS ±.005		DEPT:	
ANGLES ±0°15'		PE: D WILLIAMSON	08/05
BREAK SHARP EDGES 06 MAX		CR:	
FINISH .125 UNLESS OTHERWISE SPECIFIED		PJ:	
		RED:	
		PPPL DRFT: J STEGEL	08/05
		DRWING APPROVALS:	DATE

UT-BATTELLE		Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC, Oak Ridge, Tennessee				
PROJECT TITLE NATIONAL COMPACT STELLARATOR EXPERIMENT						
MODULAR COIL TYPE - C WINDING FORM AND STUD WELDMENT						
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS
41	X-10	5700	3	1	3	U
RELEASE LEVEL Fabrication		SE141-123				REV 0

FOR NOTES AND PARTS LIST, SEE SHEET 1.

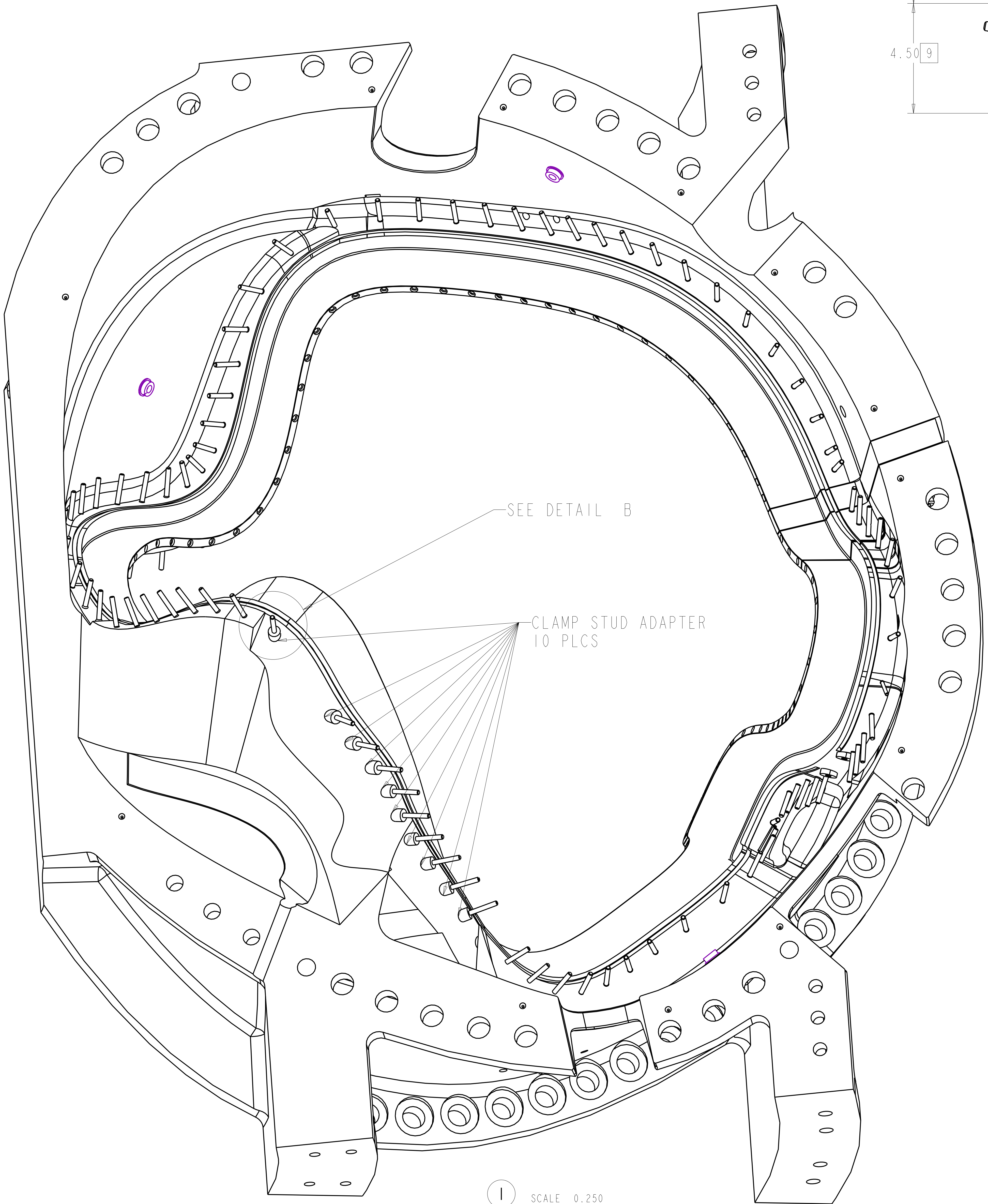


Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY by UT-BATTELLE, LLC, Oak Ridge, Tennessee						
NATIONAL COMPACT STELLARATOR EXPERIMENT						
MODULAR COIL TYPE-C WINDING FORM AND STUD WELDMENT						
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS
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Fabrication						

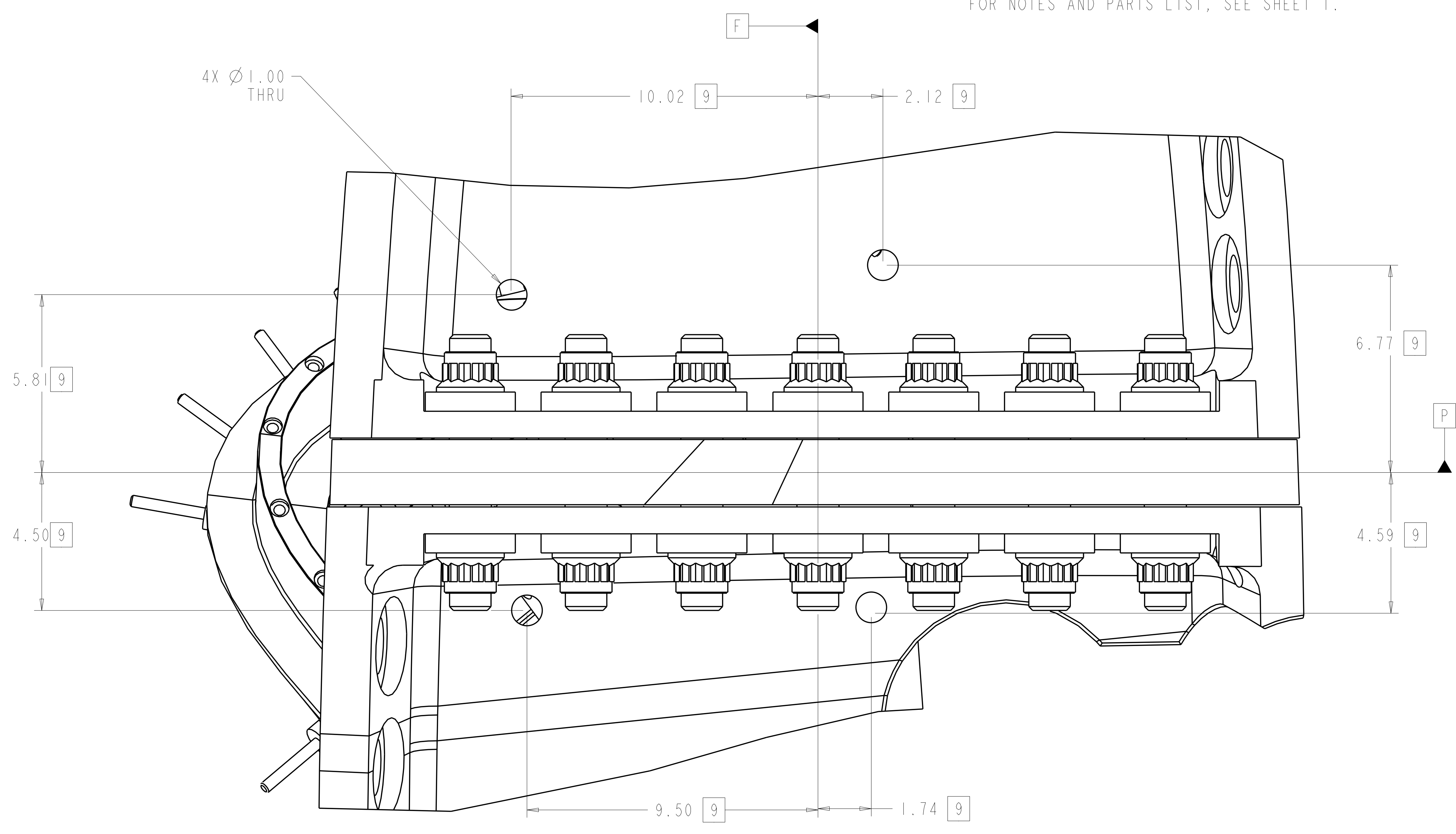
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SEI41-123

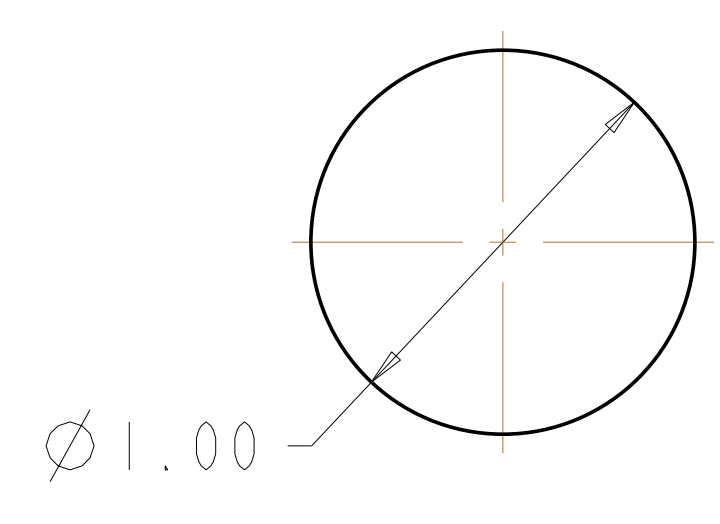
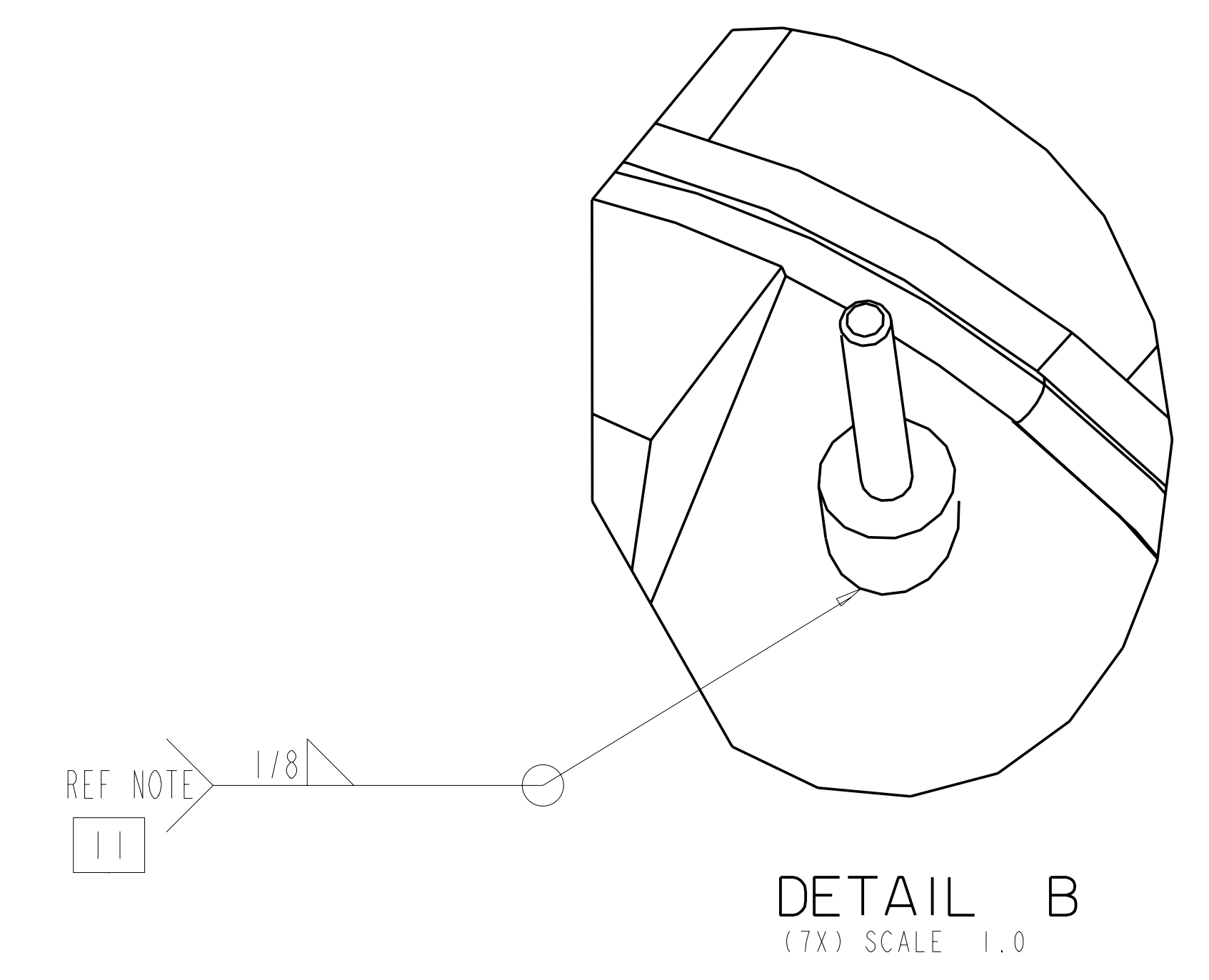
FOR NOTES AND PARTS LIST, SEE SHEET 1.



1 SCALE 0.250

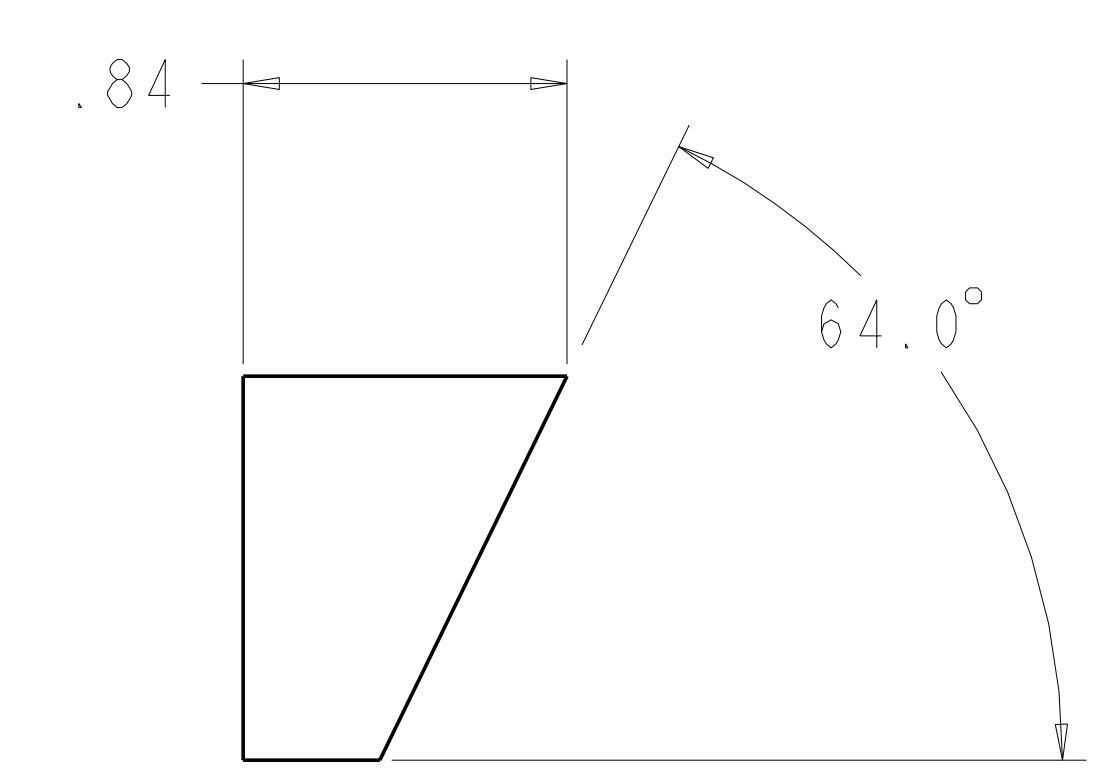


SCALE 0.50



6 CLAMP STUD ADAPTER

SCALE 2.00



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Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC, Oak Ridge, Tennessee						
UT-BATTELLE						
NATIONAL COMPACT STELLARATOR EXPERIMENT						
MODULAR COIL TYPE-C WINDING FORM AND STUD WELDMENT						
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS
41	X-10	5700	3	3	S	U
RELEASE LEVEL		SEI41-123			REV	
Fabrication					0	

SEI41-123