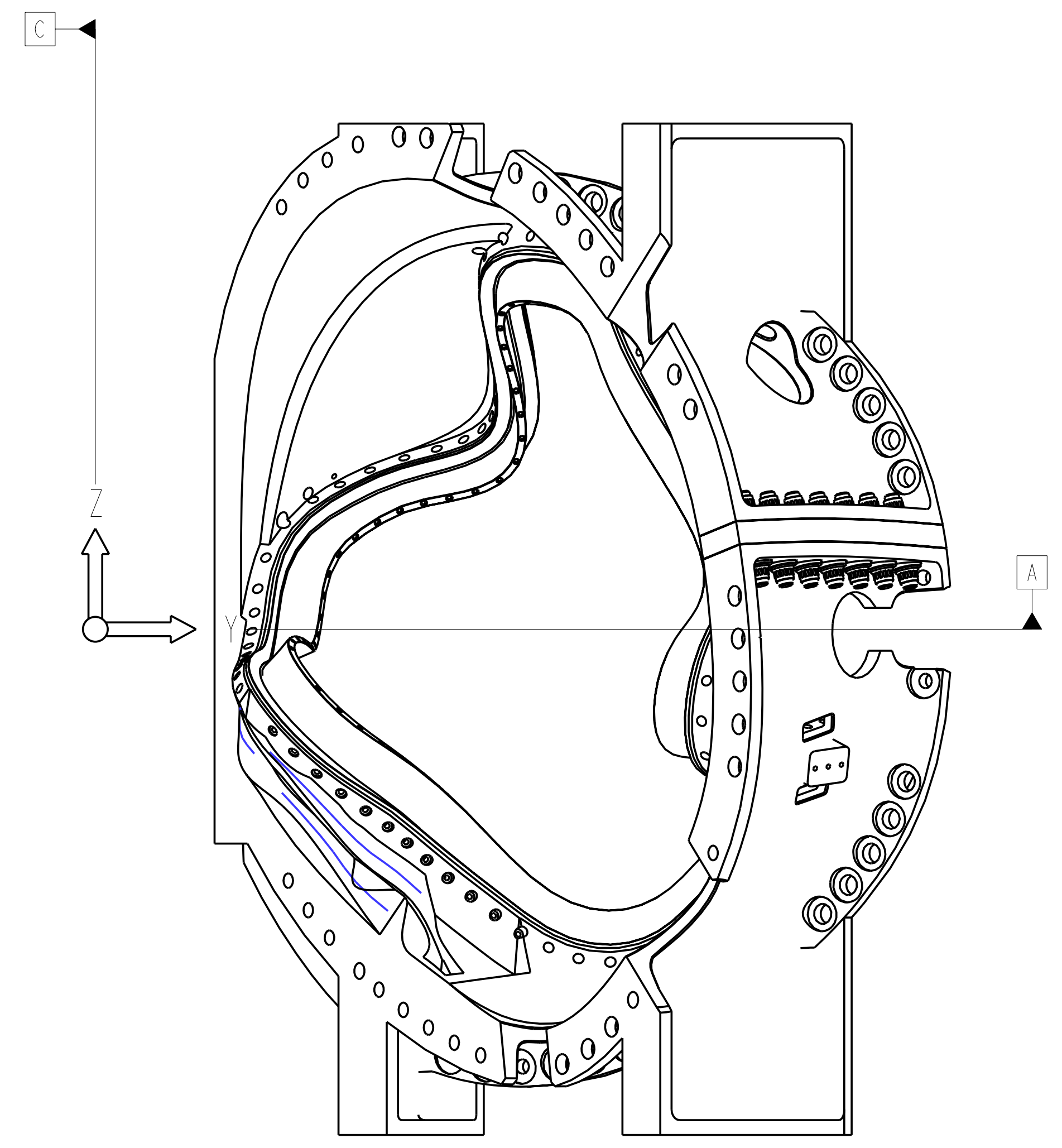
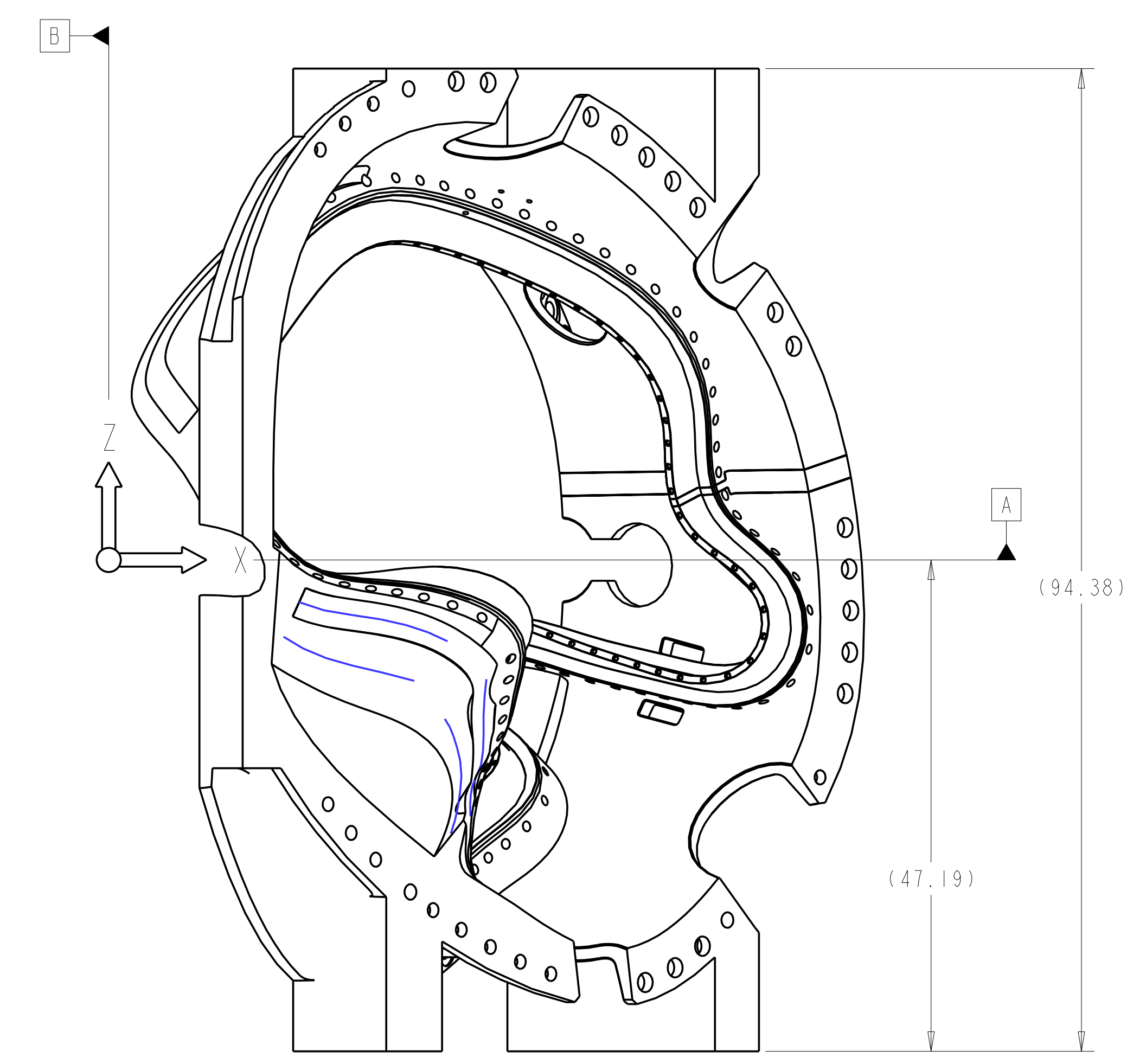
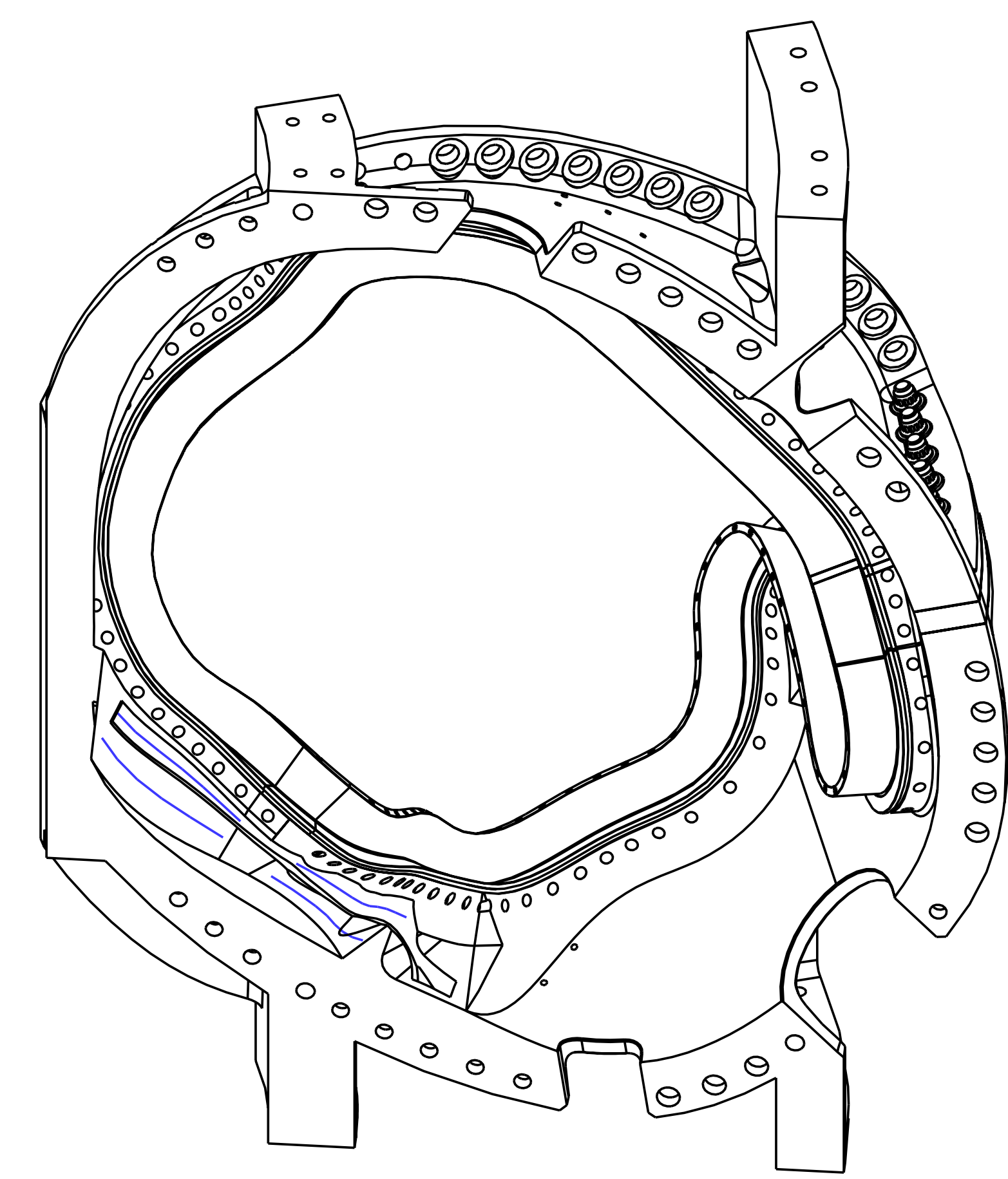
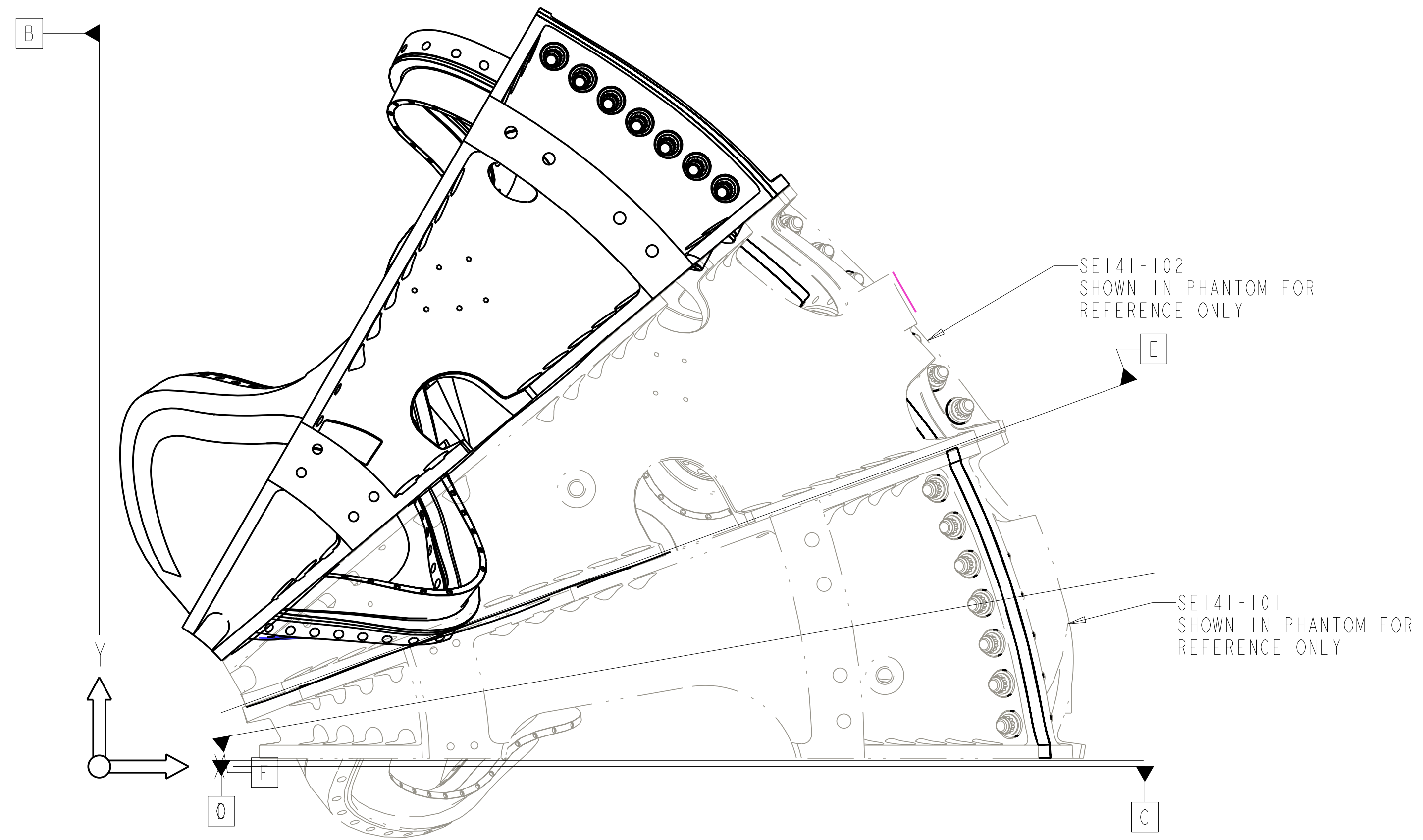


- NOTES:
- DRAWING PREPARED IN ACCORDANCE WITH ASME Y14.8M-1996
  - INTERPRET DIMENSIONS AND TOLERANCES PER ANSI Y14.5M-1994.
  - DIMENSIONS ARE IN INCHES
  - DRAWING DEPICTS FINAL MACHINED STATE OF PART DEFINED BY PRO/ENGINEER FILE SE141-103.PRT.
  - UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE RELATED TO DATUM A- (PRIMARY X-Y PLANE, TOP) DATUM B- (SECONDARY Y-Z PLANE, SIDE) DATUM C- (TERTIARY X-Z PLANE, FRONT)
  - DIMENSIONS APPLY AT ROOM TEMPERATURE. OPERATING TEMP 80 K
  - APPROXIMATE MASS = 5312.442 LBS
  - DIMENSIONS AND TOLERANCES EXCLUDE PROCESS MATERIAL ALLOWANCES WHICH MAY ADD MASS.
  - UNLESS OTHERWISE SPECIFIED, AS-CAST SURFACE PROFILE TOLERANCE =  $\pm 0.25$  INCH, WITH EXEMPTION FOR INTERSECTING SURFACES WHERE FILLETS ARE EXPECTED. MIN FILLET AND CORNER RADII =  $0.5 \pm 0.1$  IN.
  - DESIGNATED SURFACE REGIONS HAVE PROFILE TOLERANCE =  $\pm 0.125$  IN.
  - MIN THICKNESS PER CAD GEOMETRY, TOLERANCE =  $\pm 0.25$  IN.
  - PARTING LINE EDGES, FLASH, GATES, RUNNER, AND RISER EXTENSIONS 0.25-IN MAX
  - UNLESS OTHERWISE SPECIFIED, MACHINED SURFACE PROFILE TOLERANCE =  $\pm 0.01$  IN.
  - SEE SPECIFICATION, NCSX-CSPEC-141-03-00, FOR ADDITIONAL REQUIREMENTS.



REV	CAGE CODE	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL	SPECIFICATION	FIND NO
14	SE141-079	0.125 THICK FLAT WASHER	316L SS	--	10	
14	SE141-060	NUT, DOUBLE HEX, SELF LOCKING, 1-3/8-6 UNC-2B	A-286, SILVER PLATED	MIL-DTL-25027, AMS 2410	9	
14	SE141-038	INSULATING WASHER	GIICR	--	8	
7	SE141-037	INSULATING TUBE	GIICR	--	7	
7	SE141-036	STUD, 1-3/8-6 UNC-2A	316L SS	--	6	
1	SE141-075	PB SHIM UPPER INS TYPE-C	GIICR	--	5	
1	SE141-073	POLOIDAL BREAK SHIM TYPE-C	316 SS	--	4	
1	SE141-071	PB SHIM LOWER INS TYPE-C	GIICR	--	3	
1	SE141-116	MODULAR COIL TYPE-C WINDING FORM	--	--	2	
1	SE141-103	WINDING FORM TYPE-C ASSEMBLY	--	--	1	

← NEXT ASSEMBLY

**PARTS LIST**

① MODULAR COIL WINDING FORM TYPE-C ASSEMBLY

NAME: XDW OBJECT: SE141-103\_1 DATE: 15-Jun-04 16:25:14

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	REQ	DATE	DRNL	BOE	DATE

SCALE	0.1	DES	D WILLIAMSON	5-5-04
TOLERANCES UNLESS OTHERWISE SPECIFIED		DRW	PAUL MILLER	6-7-04
FRACTIONS	±.01	CHN		
XX DECIMALS	±.005	SECT		
XXX DECIMALS	±.0015	DEPT		
ANGLES	±.015°	PE		
BREAK SHARP EDGES	.06 MAX	CR		
FINISH	125 UNLESS OTHERWISE SPECIFIED	PJ		
		REQ		
		PPPL DRFT		

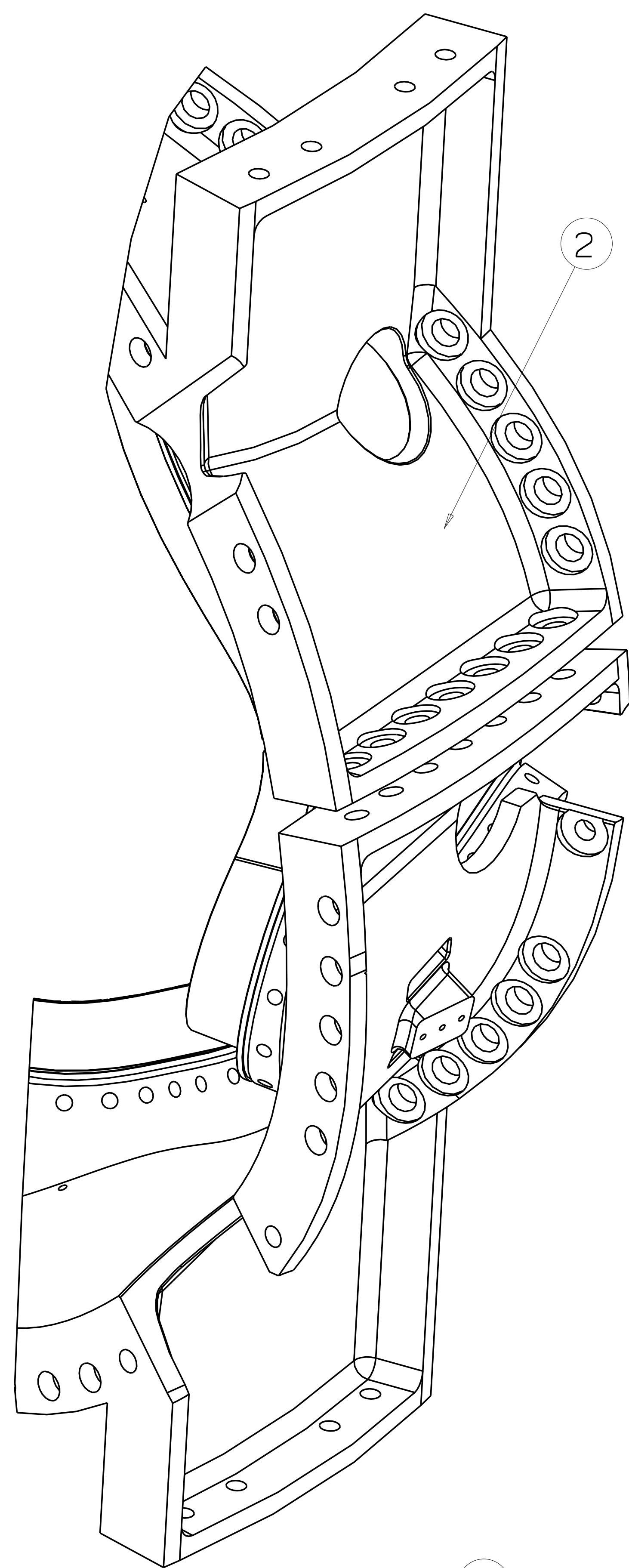
Oak Ridge National Laboratory  
 managed for the DEPARTMENT OF ENERGY under  
 U.S. GOVERNMENT contract DE-AC05-00OR22725  
 UT-BATTELLE, LLC, Oak Ridge, Tennessee

**UT-BATTELLE**

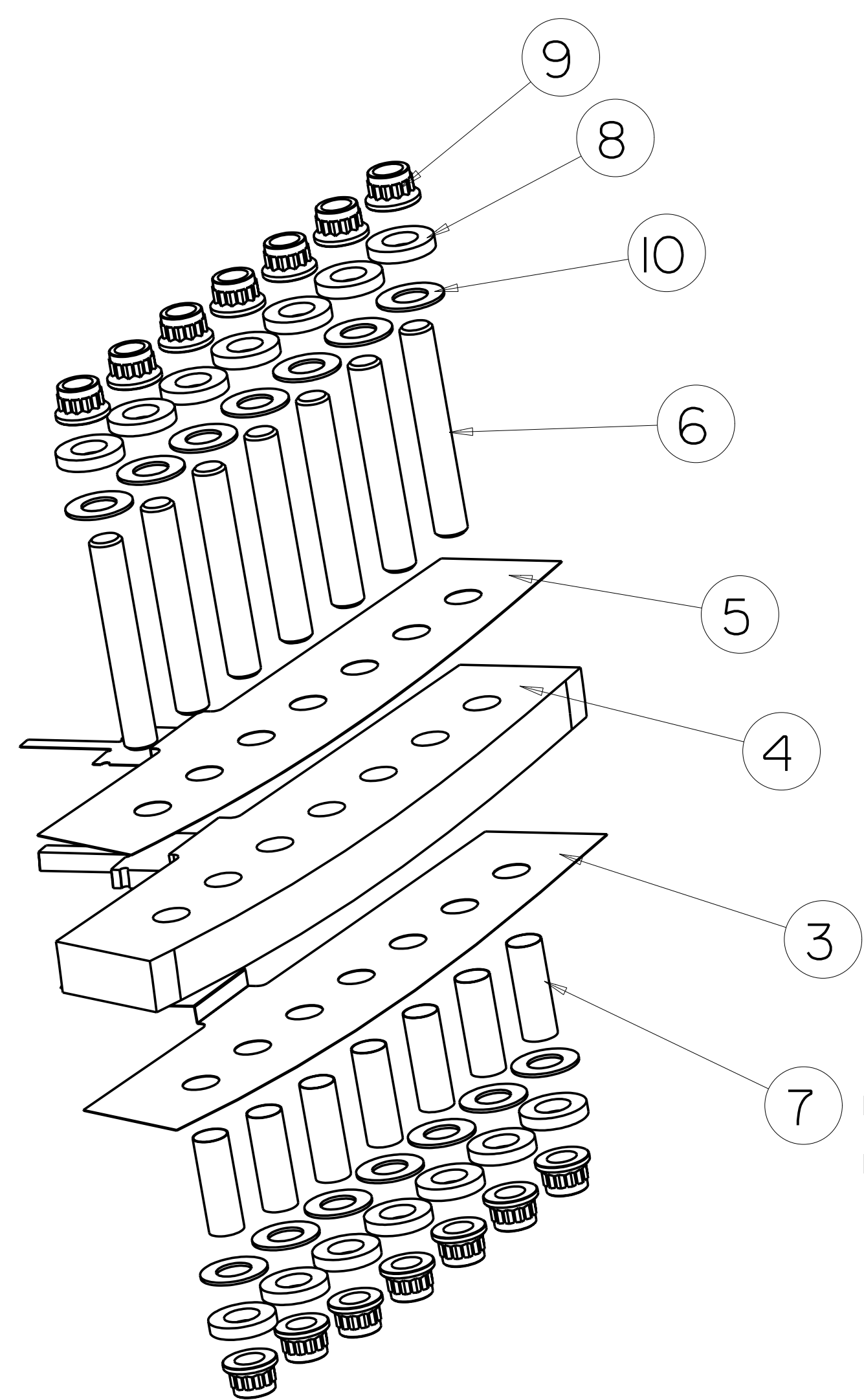
**NATIONAL COMPACT STELLARATOR EXPERIMENT**

**WINDING FORM TYPE-C ASSEMBLY**

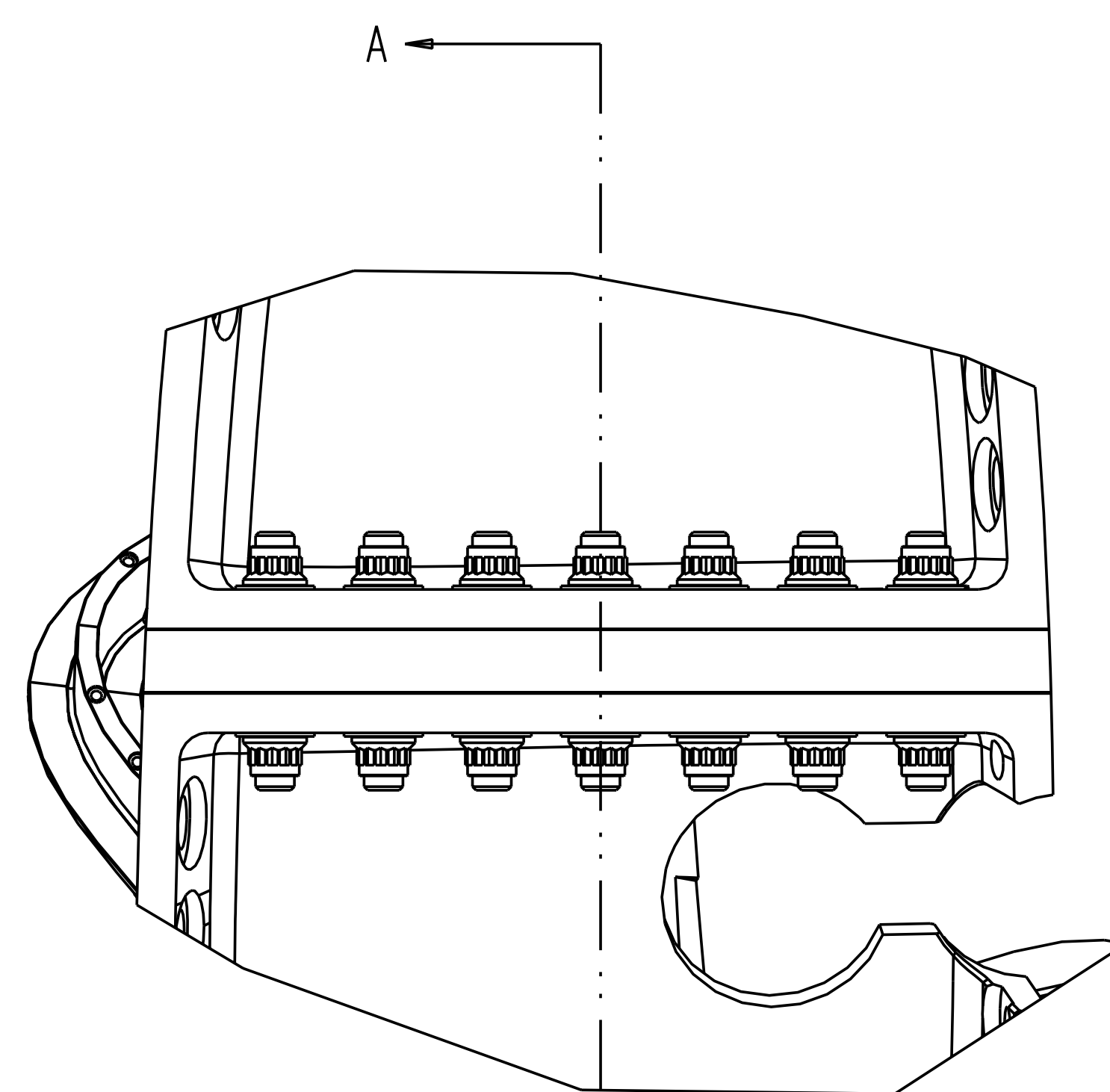
VERSION NO.	PLANT	BLDG	FL	SHT	OF	TYPE	CLASS
31+	ORNL	5700	3	1	2	S	U
RELEASE LEVEL	SE141-103						REV
WIP							0



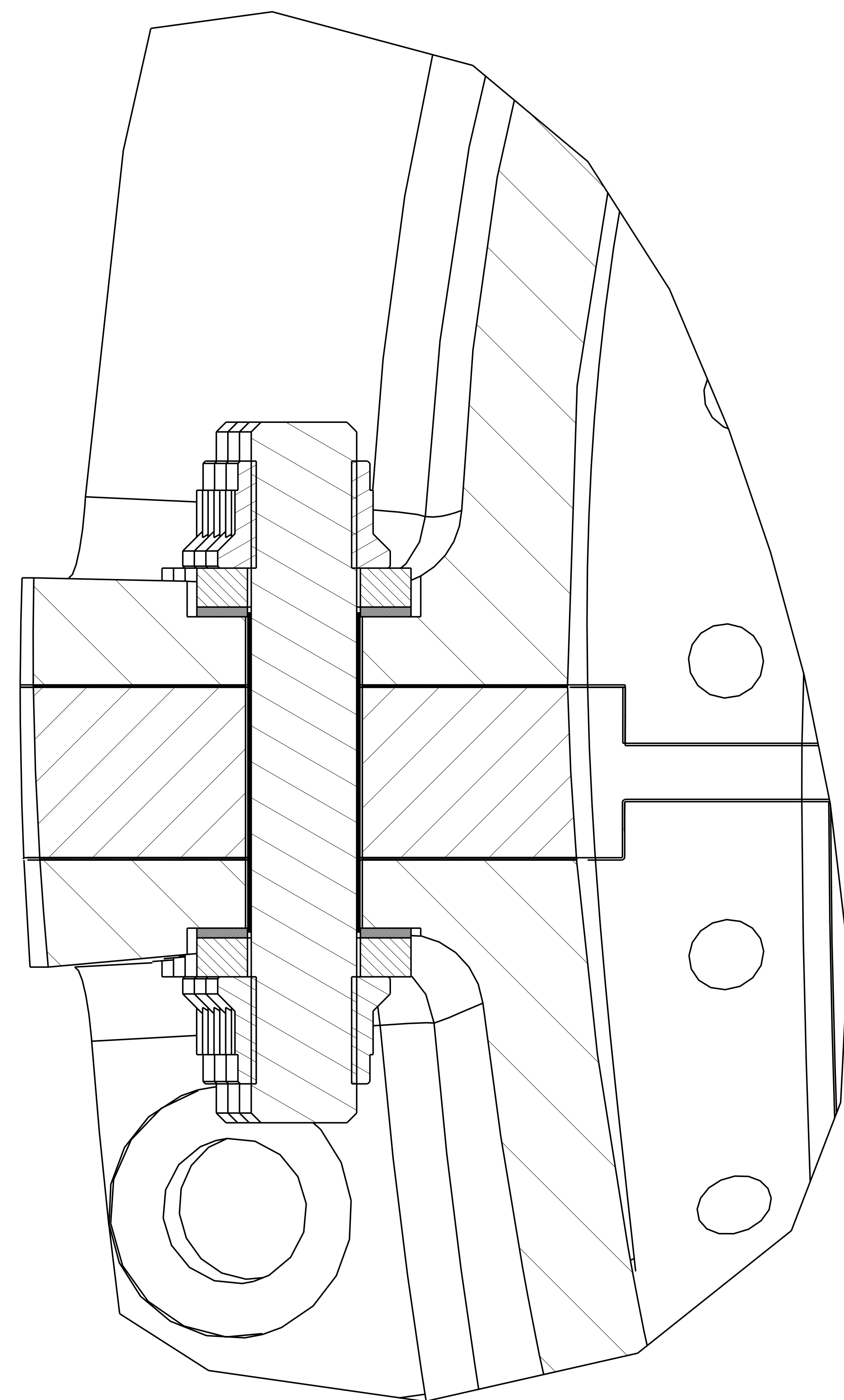
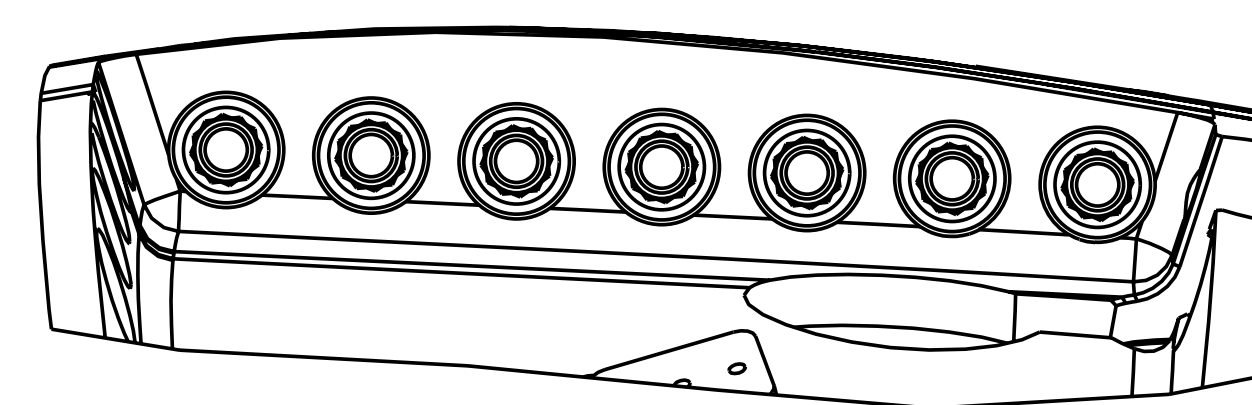
EXPLODED VIEW  
SCALE 0.2



F/N 7 TO HAVE +.001 TO +.002  
INTERFERENCE FIT TO HOLE IN F/N 2  
LEAD IN CHAMFER OPTIONAL



SCALE 0.200



SECTION A-A  
SCALE 1.000

NAME: XDW OBJECT: SE141-103\_2 DATE: 15-Jun-04 16:26:45

<b>UT-BATTELLE</b> Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC, Oak Ridge, Tennessee						
<b>NATIONAL COMPACT STELLARATOR EXPERIMENT</b>						
<b>WINDING FORM TYPE-C ASSEMBLY</b>						
VERSION NO.	PLANT	BLOG	FL	SHT	OF	TYPE
31+	ORNL	5700	3	2	2	S
RELEASE LEVEL		WIP		SE141-103		REV
						0