

8

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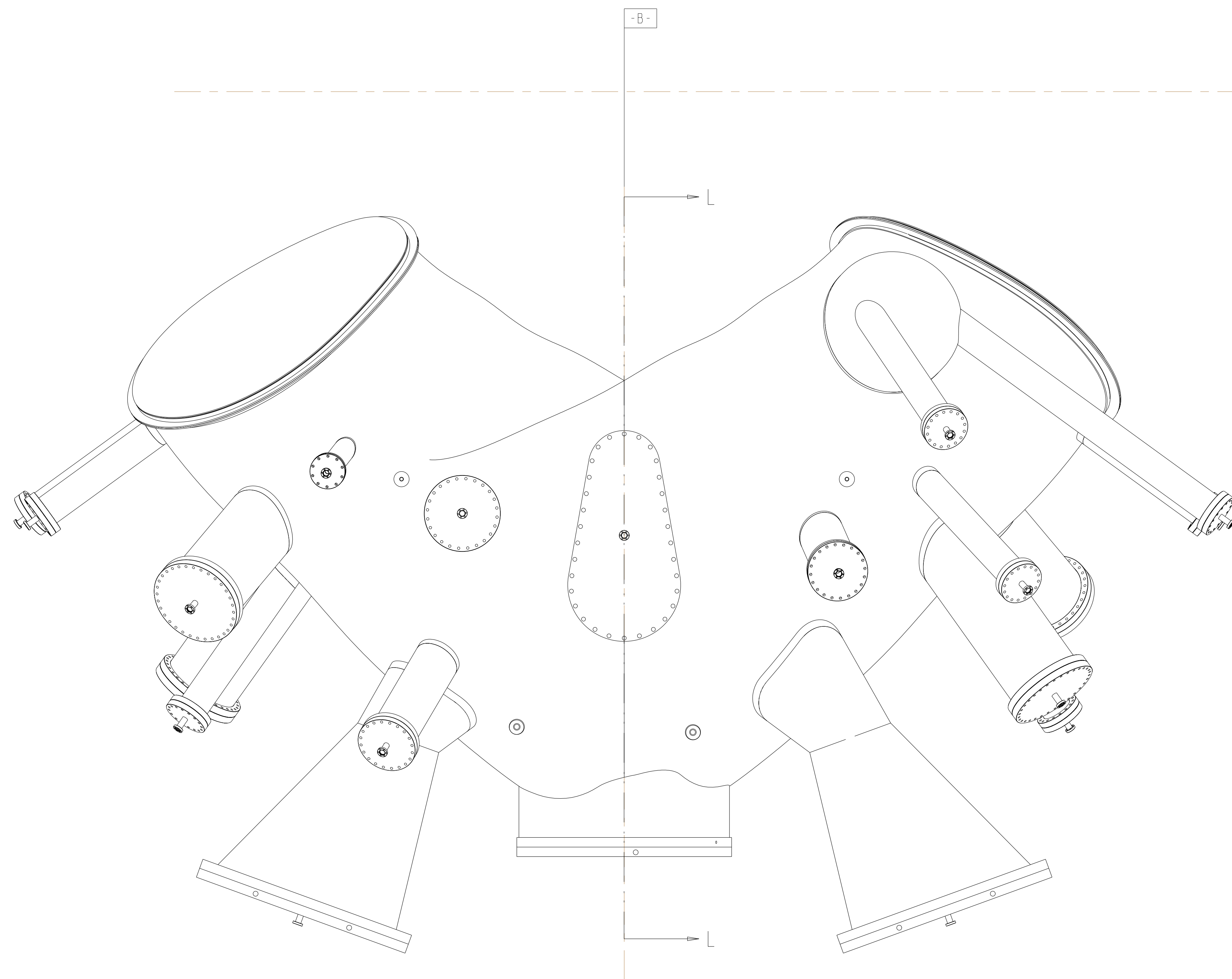
2

1

NEXT ASS'Y:

FINAL ASS'Y:

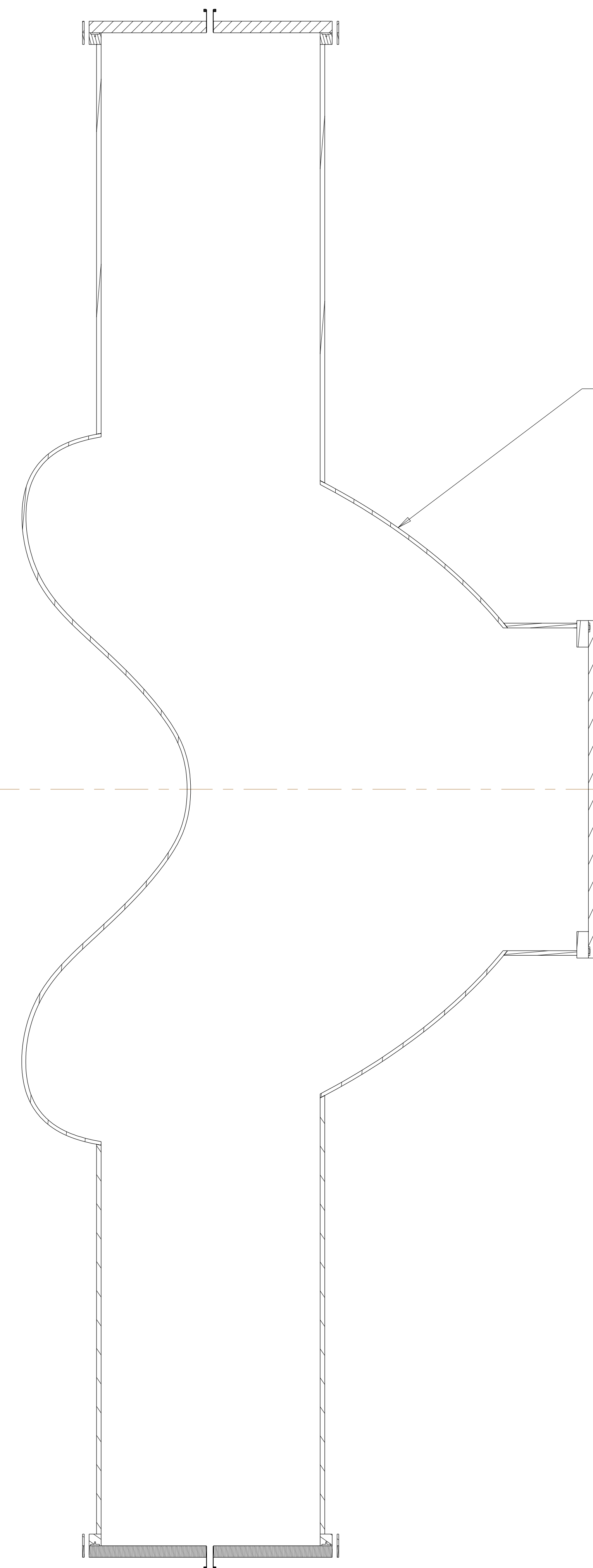
FOR NOTES AND PARTS LIST SEE SHEET 1



TOP VIEW

-C-

-A-

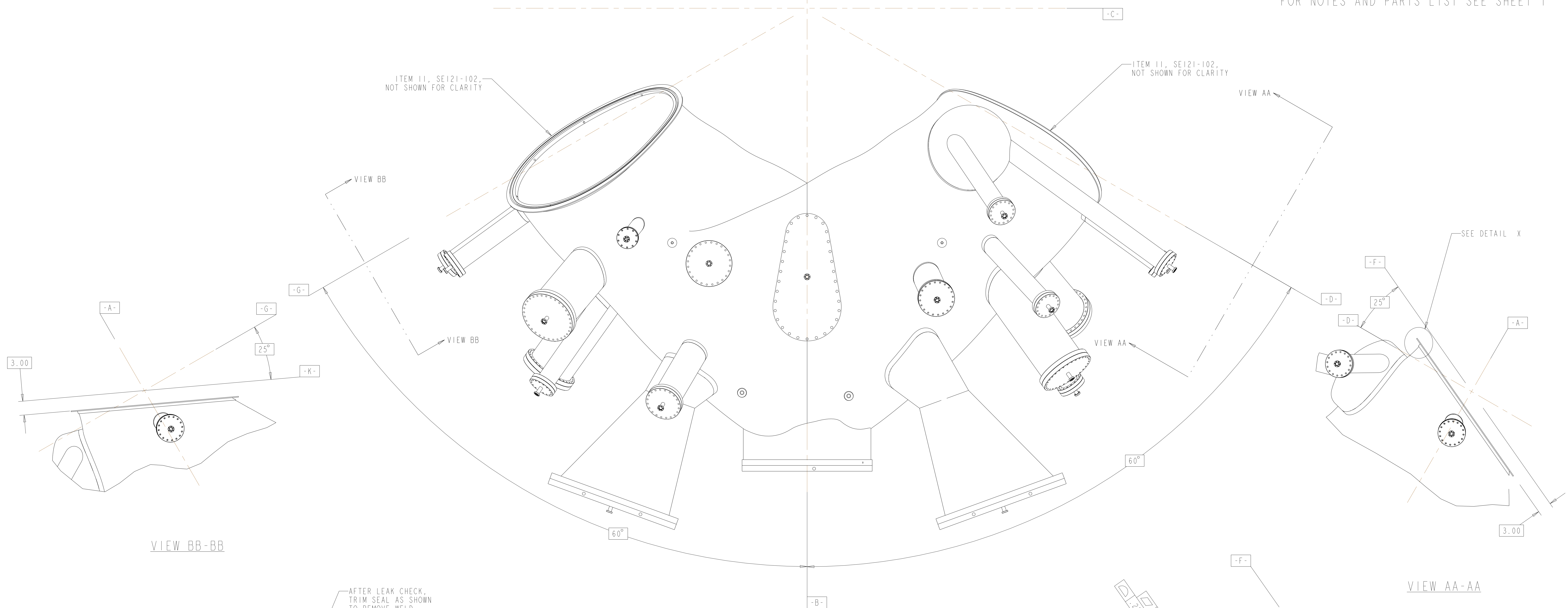


.375 STOCK MATERIAL THICKNESS
SEE NOTE 5

SECTION L-L
VESSEL THICKNESS

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 NAME					
		NATIONAL COMPACT STELLERATOR EXPERIMENT					
		VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY					
VERSION NO.	PLANT	BLDG	FL	SHT	OF	TYPE	CLASS
5	X-10	5700	3	2	19	A	U
RELEASE LEVEL							REV
Fabrication		SEI20-004					2

FOR NOTES AND PARTS LIST SEE SHEET 1




VIEW BB-BB

TOP VIEW

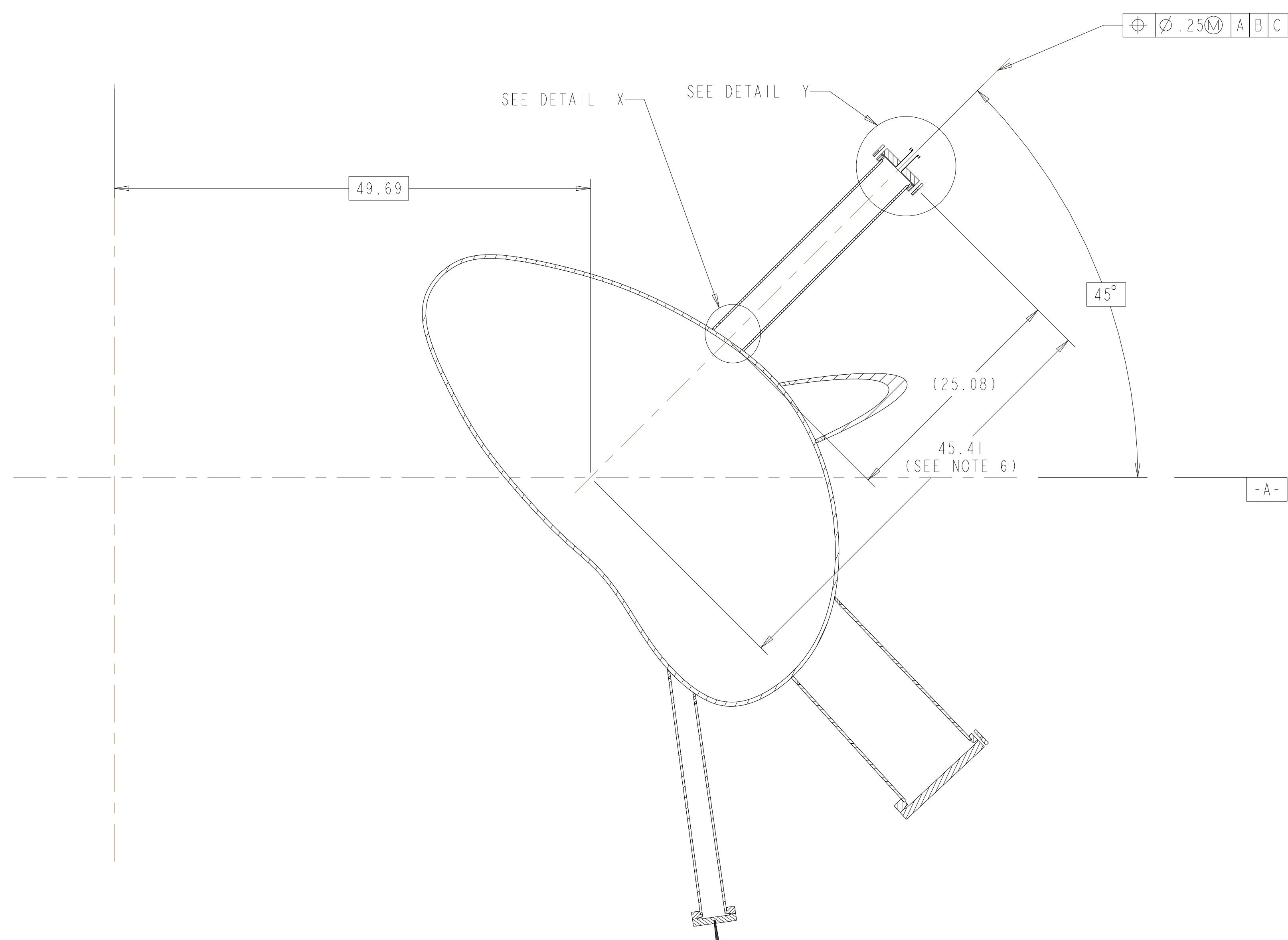
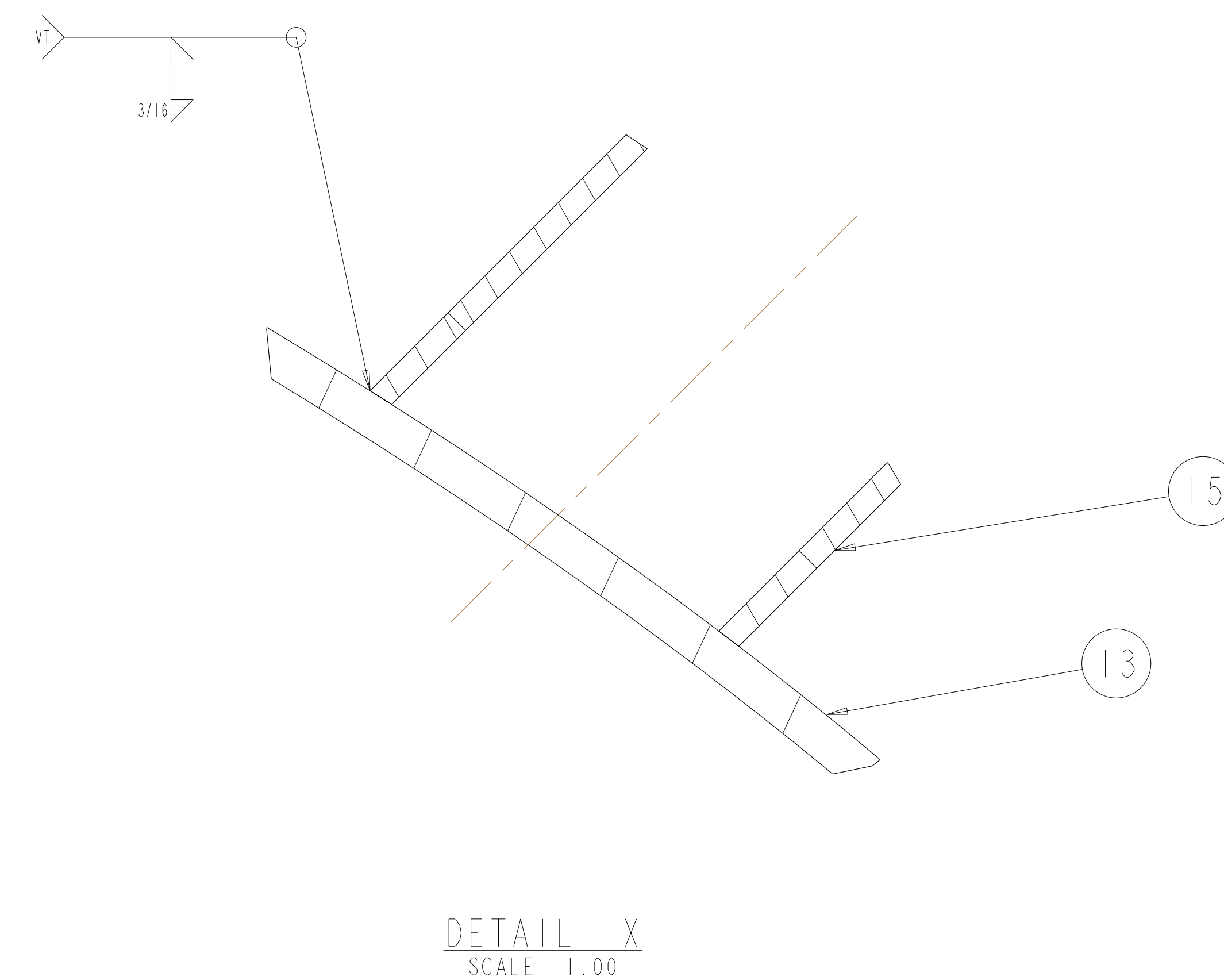
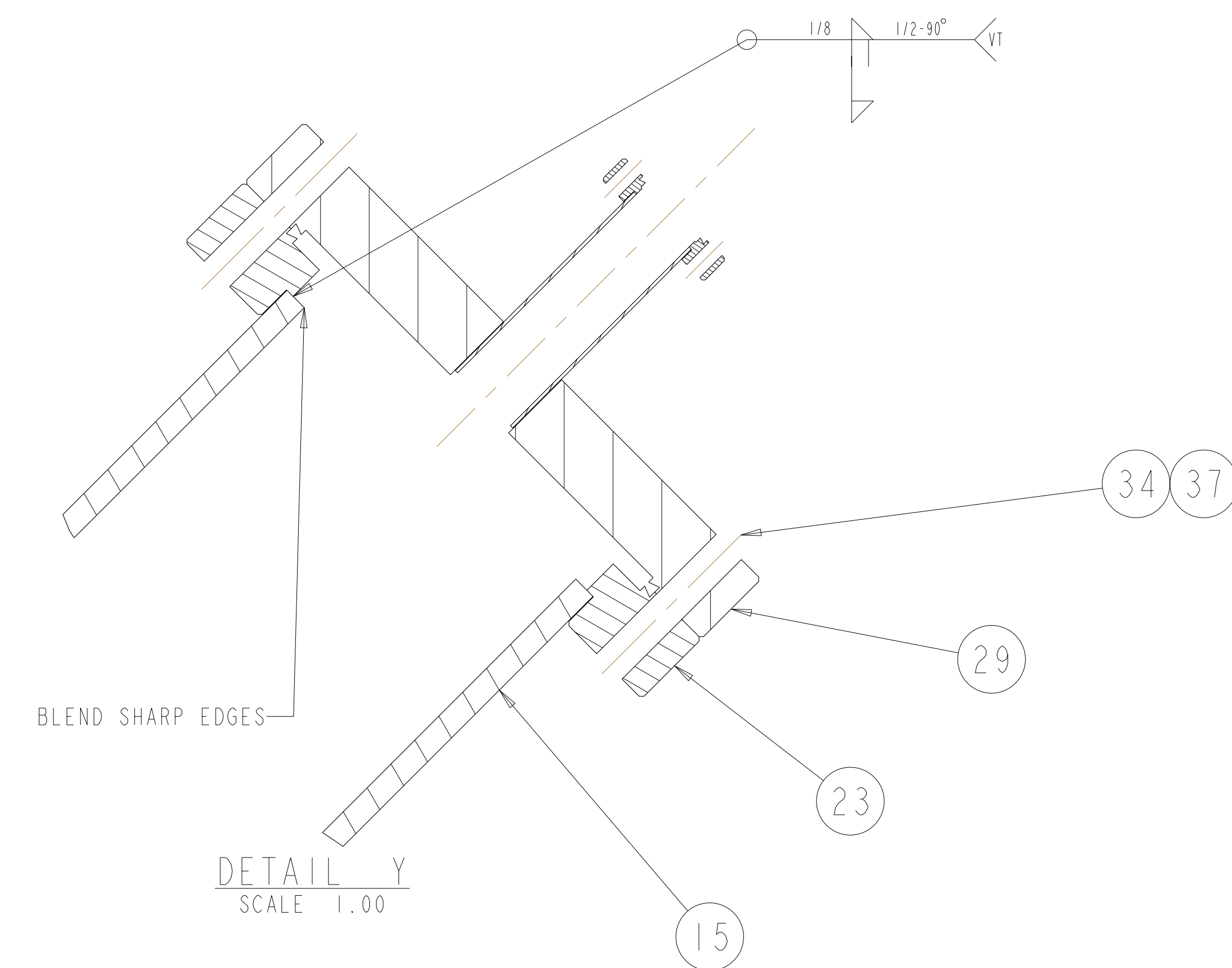
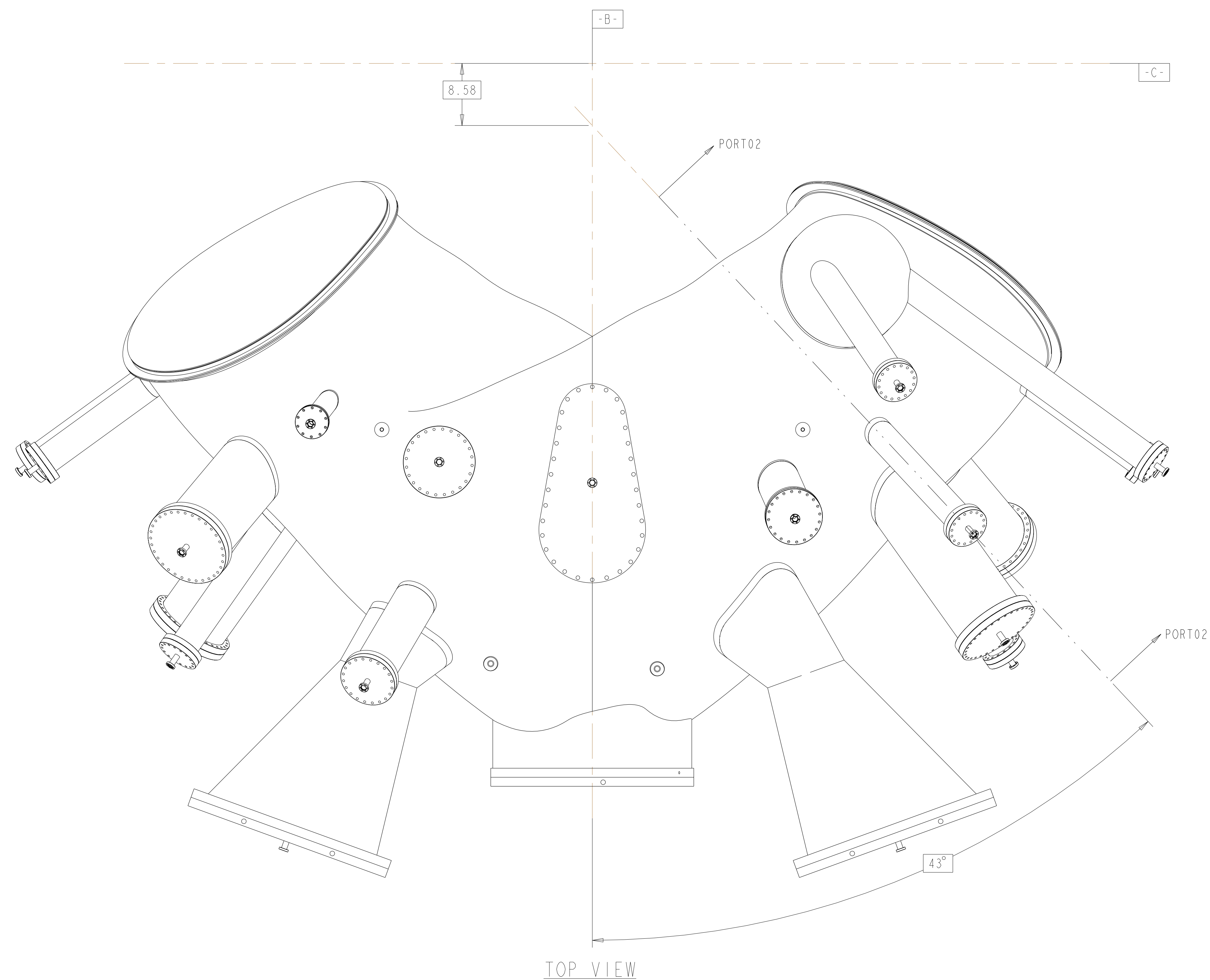
VIEW AA-AA

TYPICAL FLANGE DETAIL
SCALE 2.00

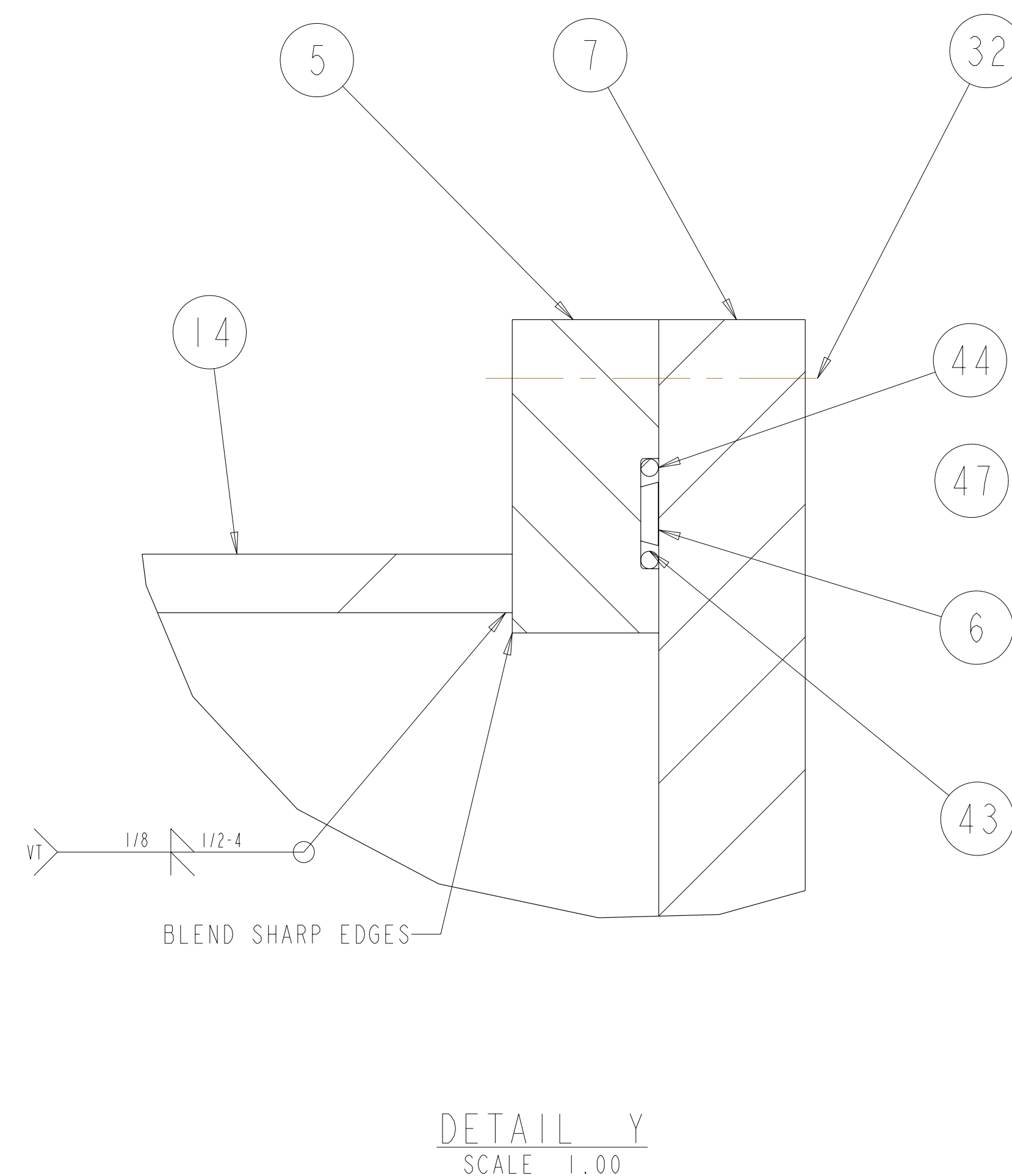
TYPICAL BOTH ENDS
DETAIL X
SCALE 1.00

		Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. Government contract DE-AC05-00OR21420 UT-Battelle, LLC Oak Ridge, Tennessee PROJECT NAME						
		NATIONAL COMPACT STELLARATOR EXPERIMENT						
VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY								
VERSION NO.	PLANT	BLDG	FL	SHT	OF	TYPE	CLASS	
5	X-10	5700	3	3	1.9	A	U	
RELEASE LEVEL								REV 2
Fabrication		SEI20-004						

FOR PARTS LIST AND NOTES SEE SHEET 1.

TYPICAL PORT 2A AND 2B
SECTION PORT02-PORT02

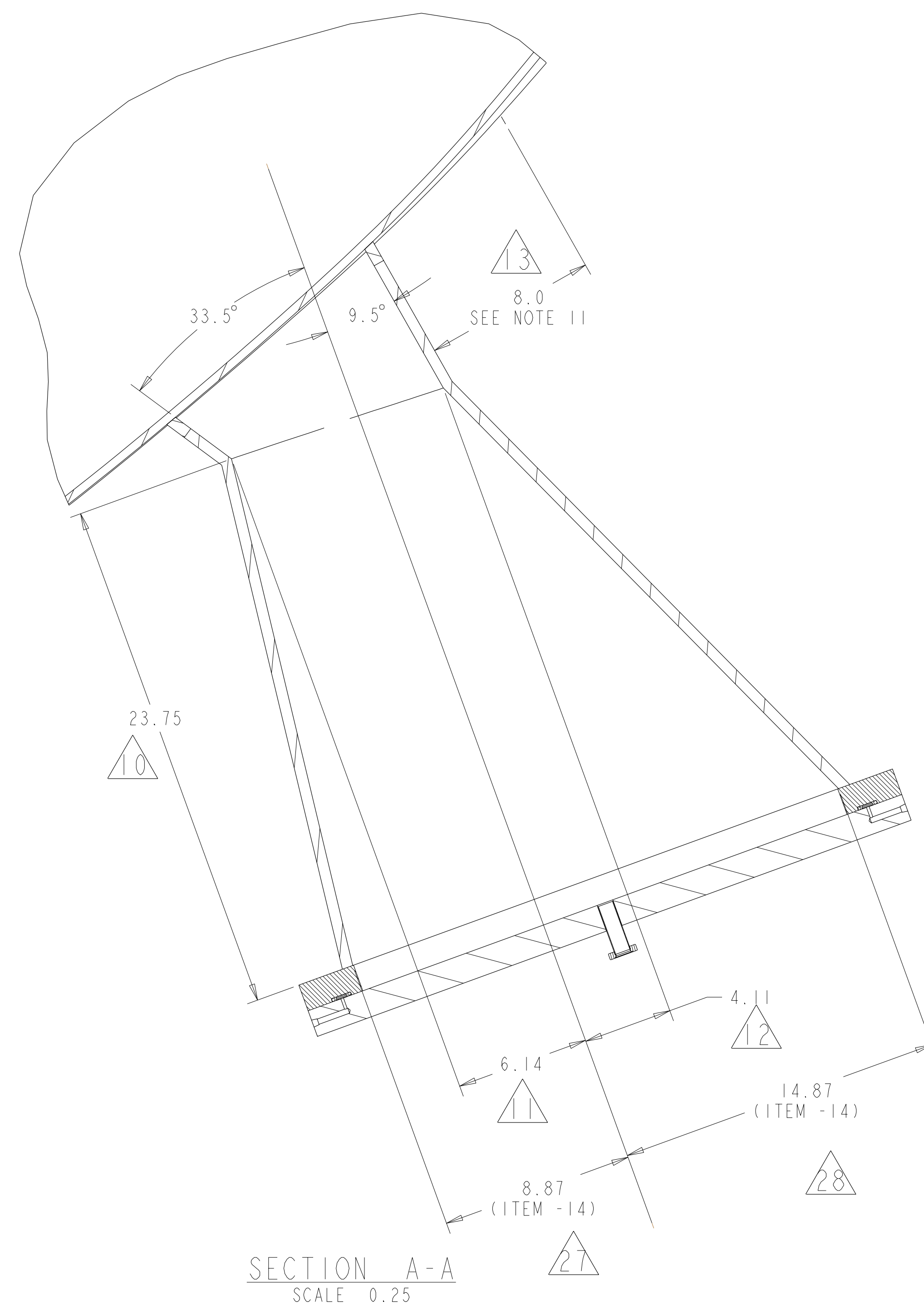
UT-BATTELLE		Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC. Oak Ridge, Tennessee					
PROJECT NAME		NATIONAL COMPACT STELLARATOR EXPERIMENT					
VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY							
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS	
5	X-10	5700	3	4 19	A	U	
RELEASE LEVEL Fabrication		SEI20-004					
		REV 2					



OPTIONAL WELD DETAIL

DETAIL X
SCALE 1.00

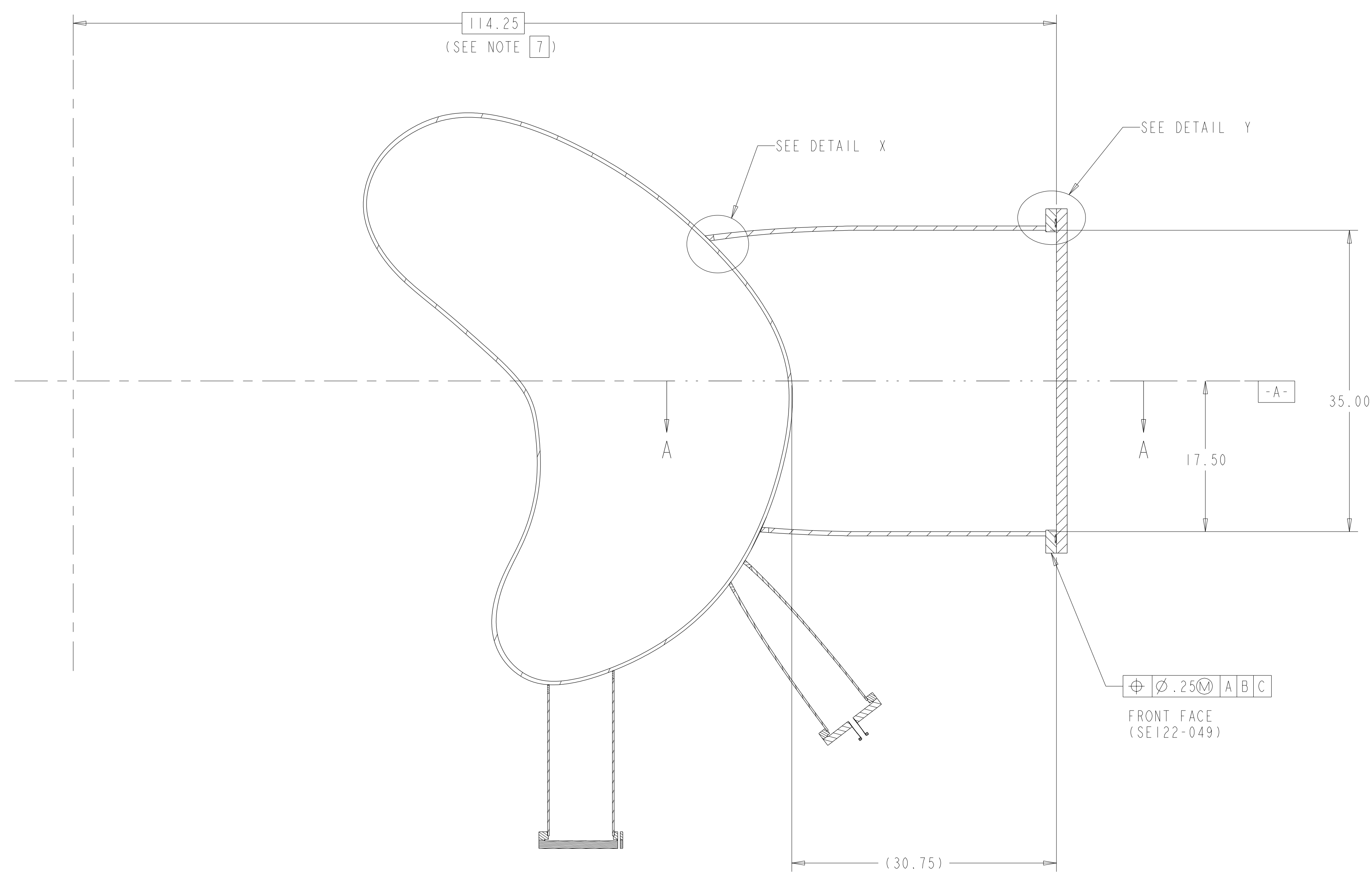
DETAIL Y
SCALE 1/8" = 1'-0"




SECTION A-A
SCALE 0.25

FOR PARTS LIST AND NOTES SEE SHEET 1.

TOP VIEW



TYPICAL PORT 4A AND 4B
SECTION PORT04A-PORT04A

		Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. Government contract DE-AC05-00OR21424 UT-BATTELLE, Inc. Oak Ridge, Tennessee PROJECT NAME						
		NATIONAL COMPACT STELLARATOR EXPERIMENT						
VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY								
VERSION NO. 5	PLANT X-10	BLDG 5700	FL 3	SHT 5	19 A	TYPE U	CLASS 1	
RELEASE LEVEL Fabrication		SEI20-004					REV 2	

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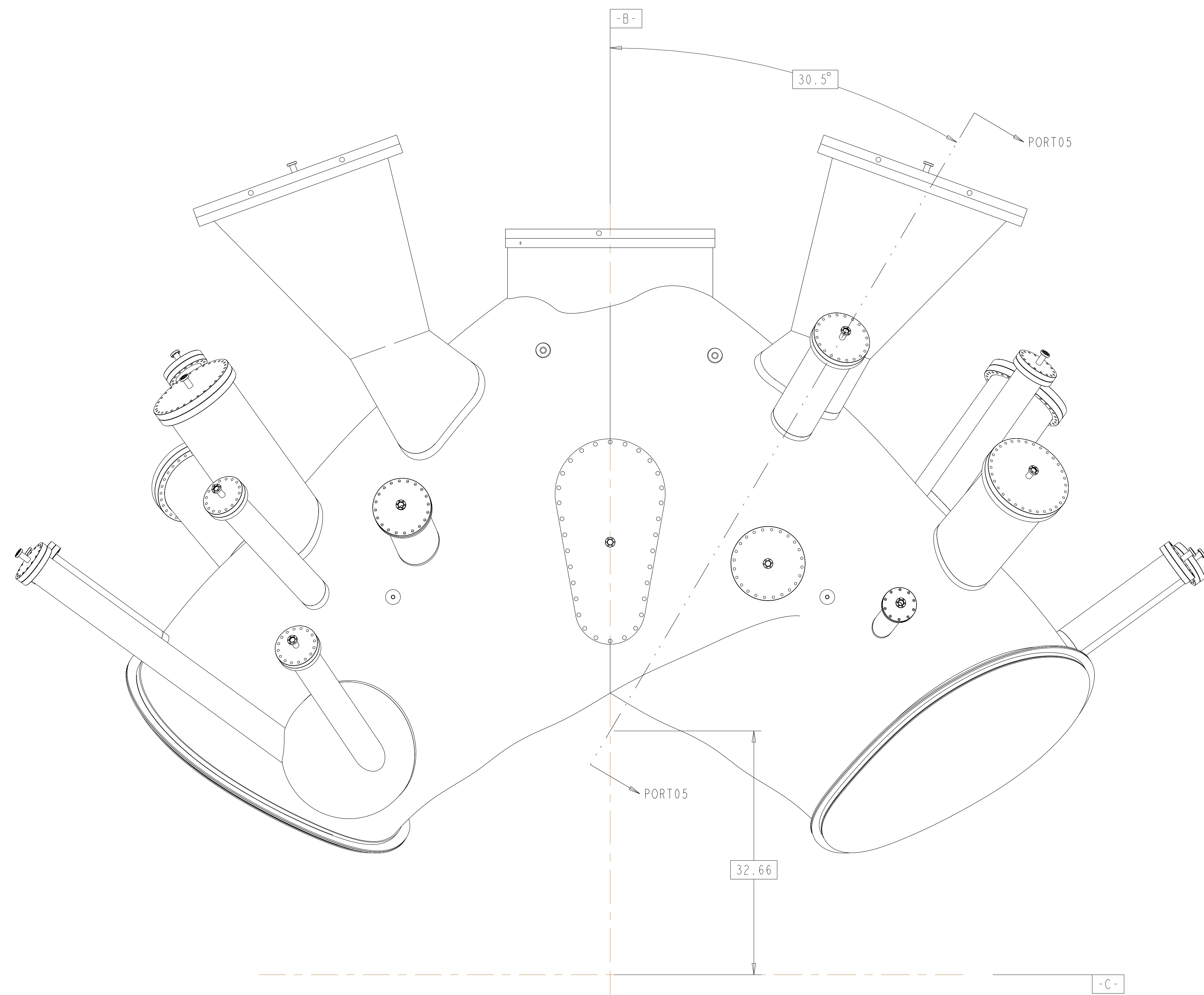
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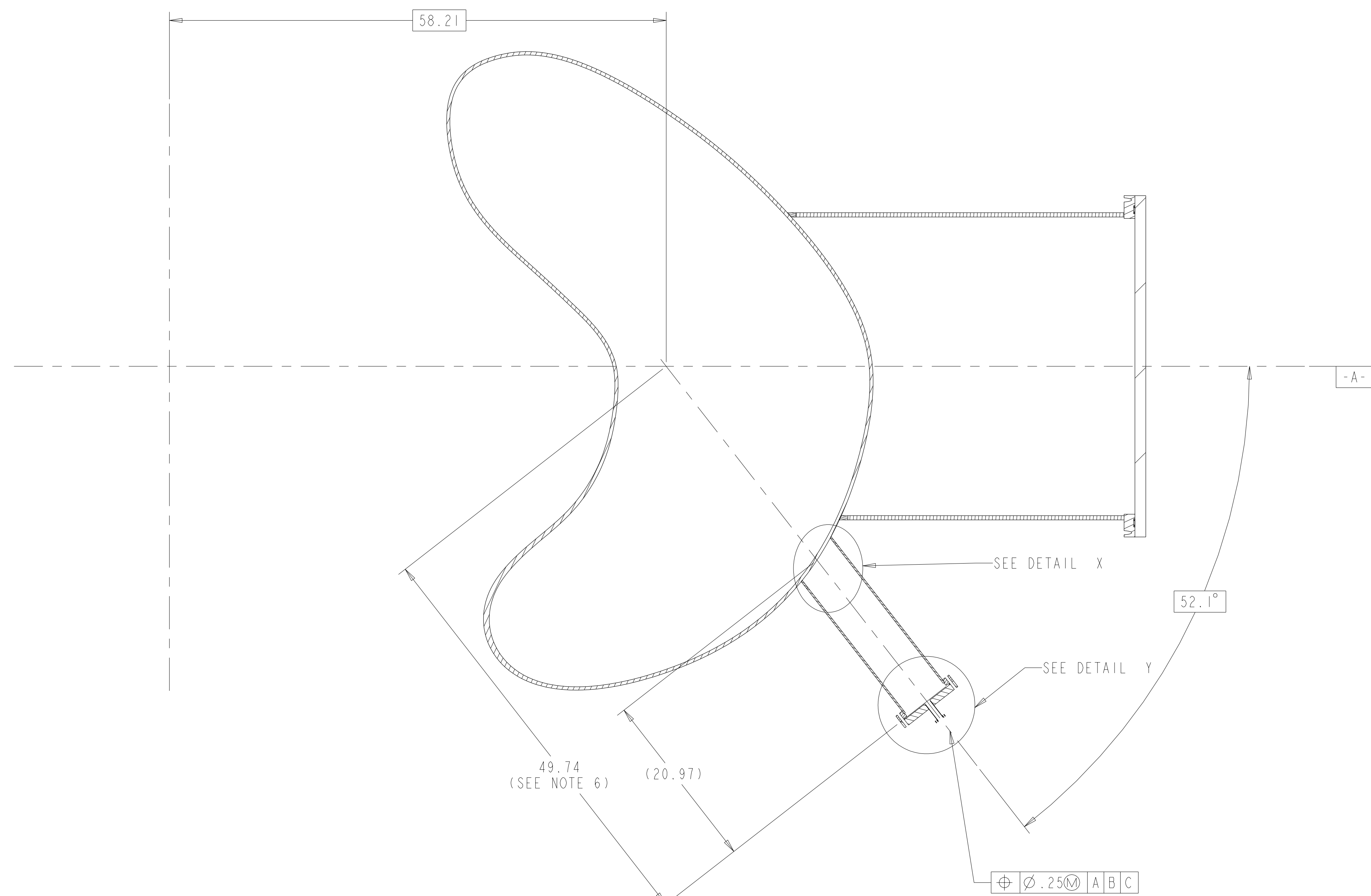
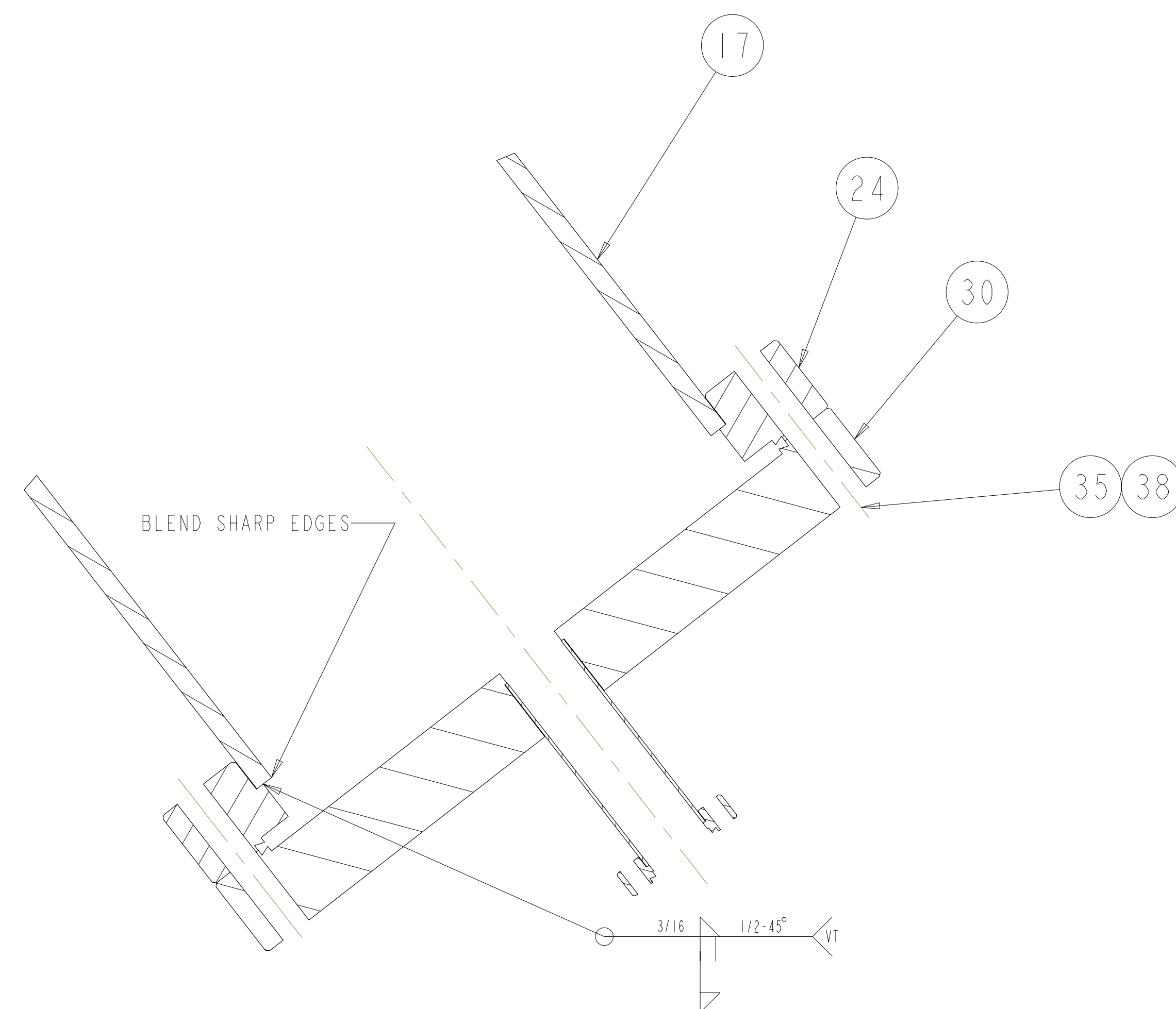
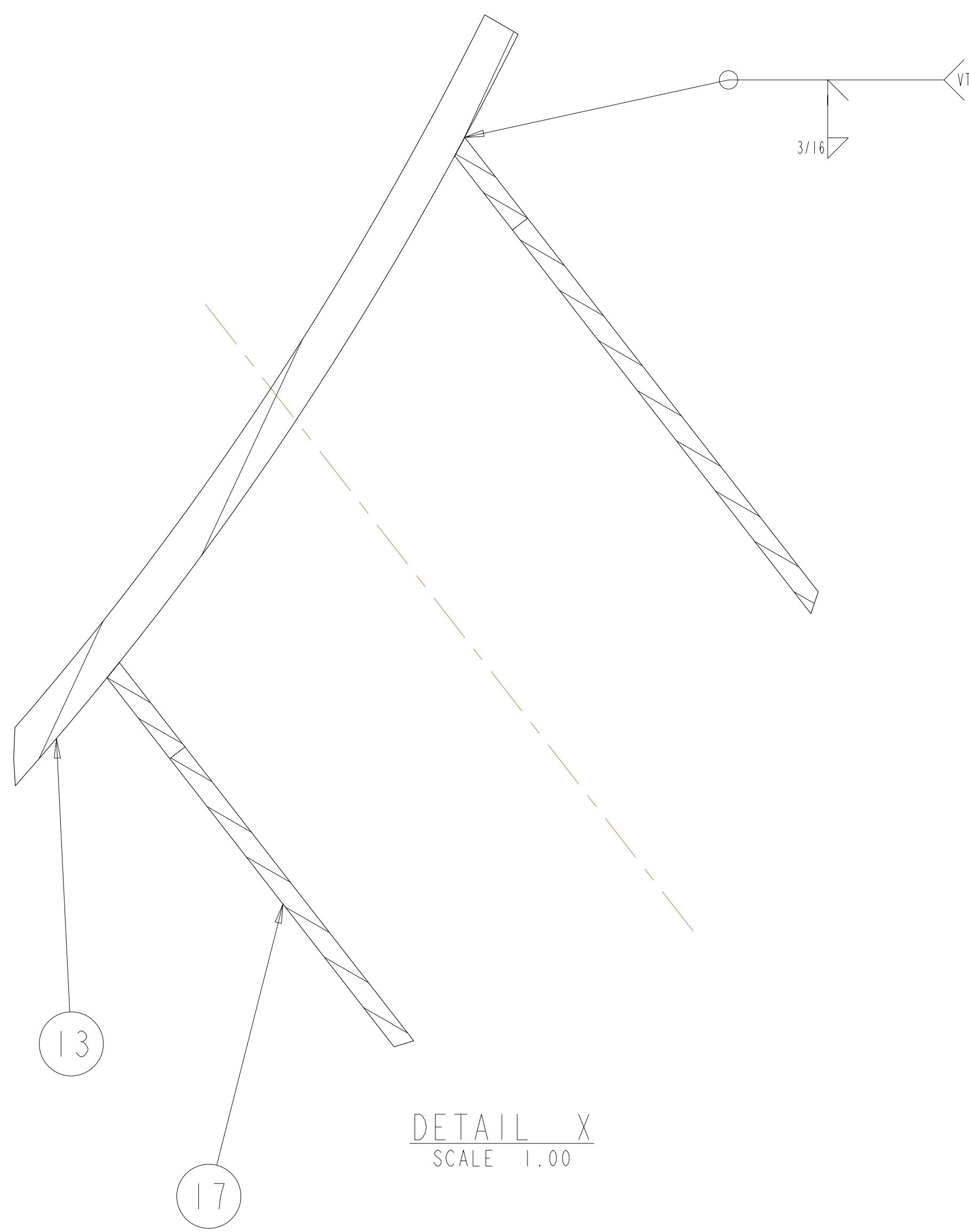
NEXT ASS'Y:

FINAL ASS'Y:

FOR PARTS LIST AND NOTES SEE SHEET 1.



BOTTOM VIEW

TYPICAL PORT 5A AND 5B
SECTION PORT05-PORT05DETAIL Y
SCALE 1.00DETAIL X
SCALE 1.00

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 NAME		NATIONAL COMPACT STELLARATOR EXPERIMENT					
VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY							
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS	
5	X-10	5700	3	6 19	A	U	
RELEASE LEVEL Fabrication		SEI20-004					
		REV 2					

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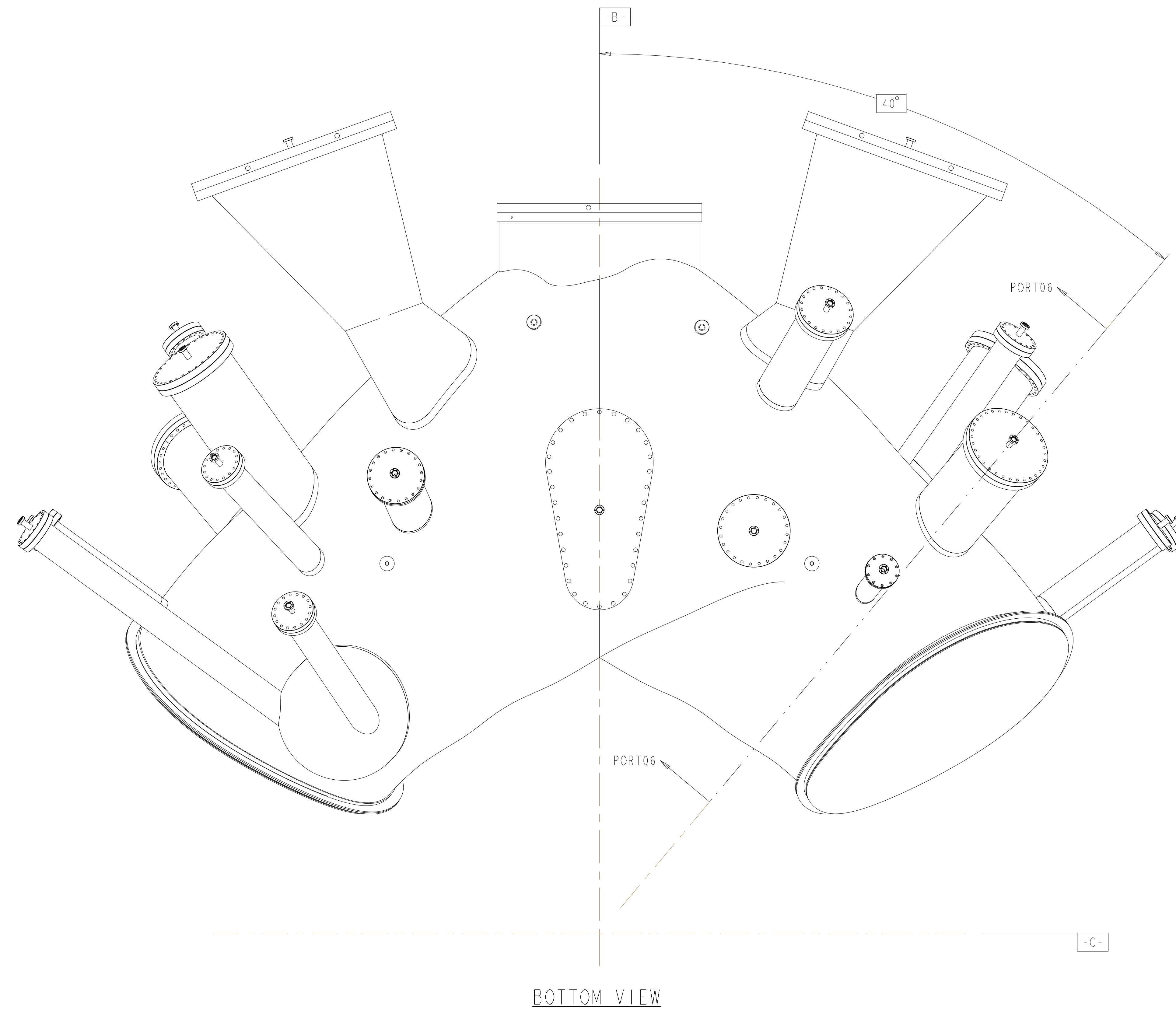
3

2

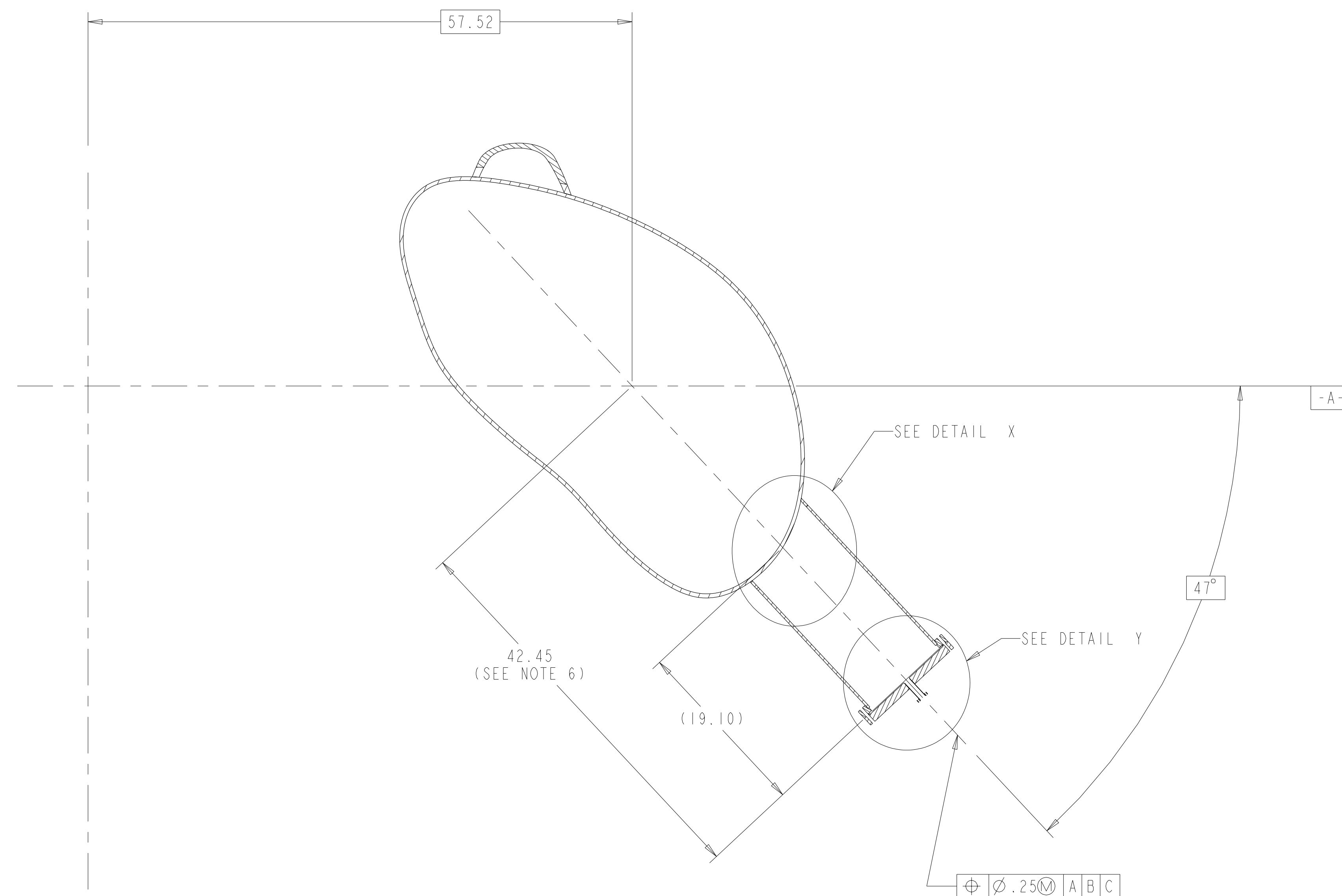
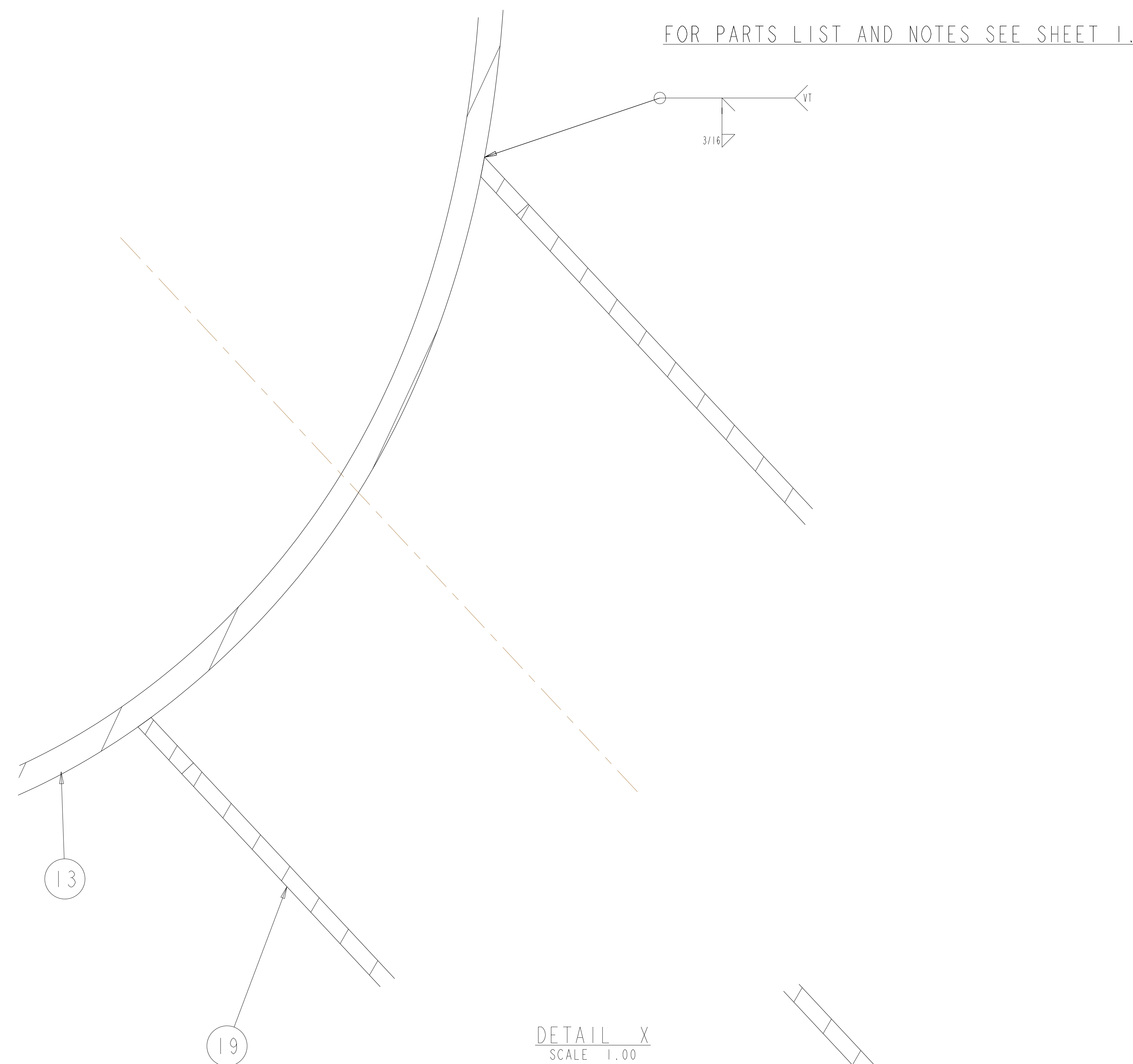
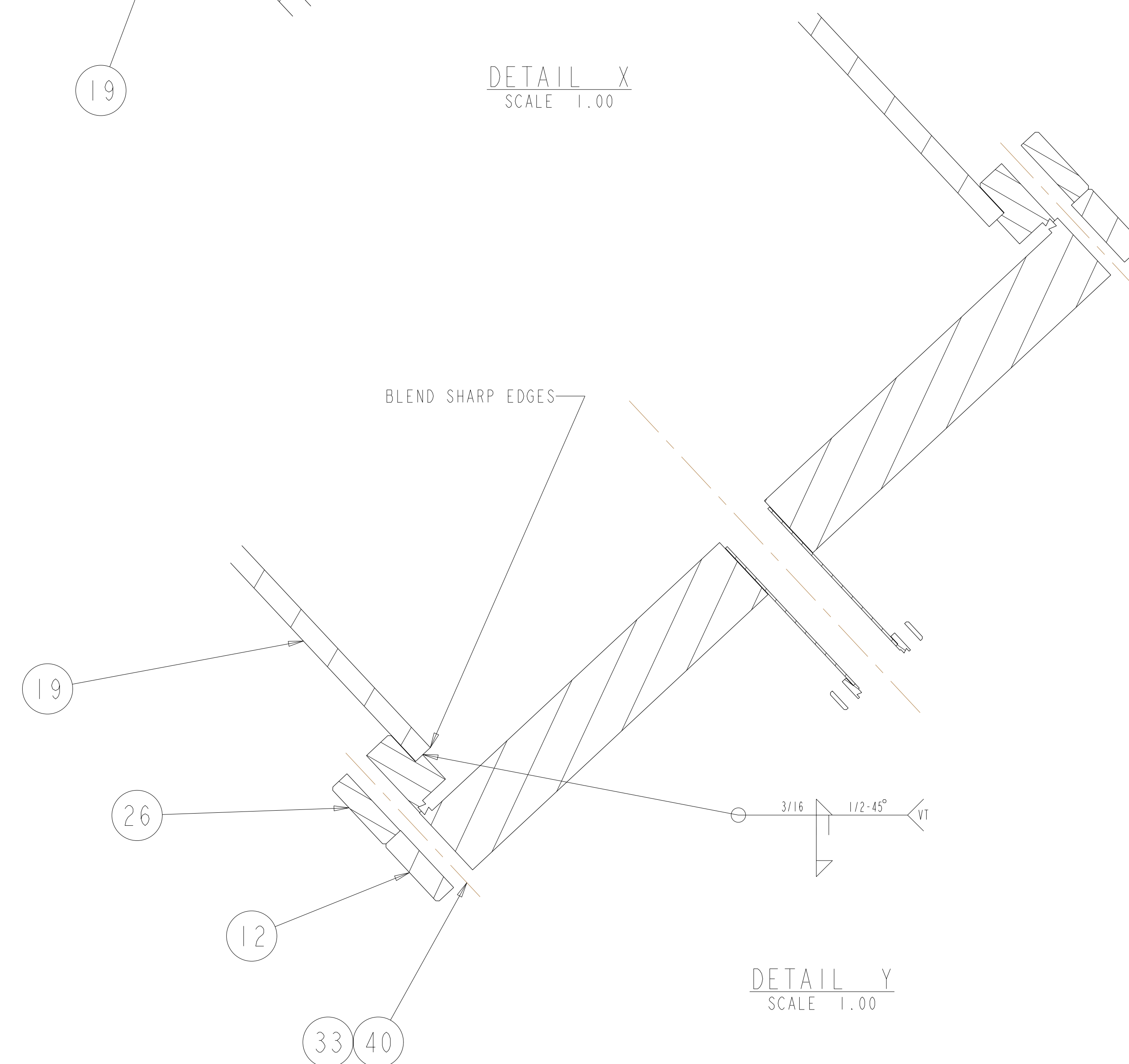
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NEXT ASS'Y:

FINAL ASS'Y:

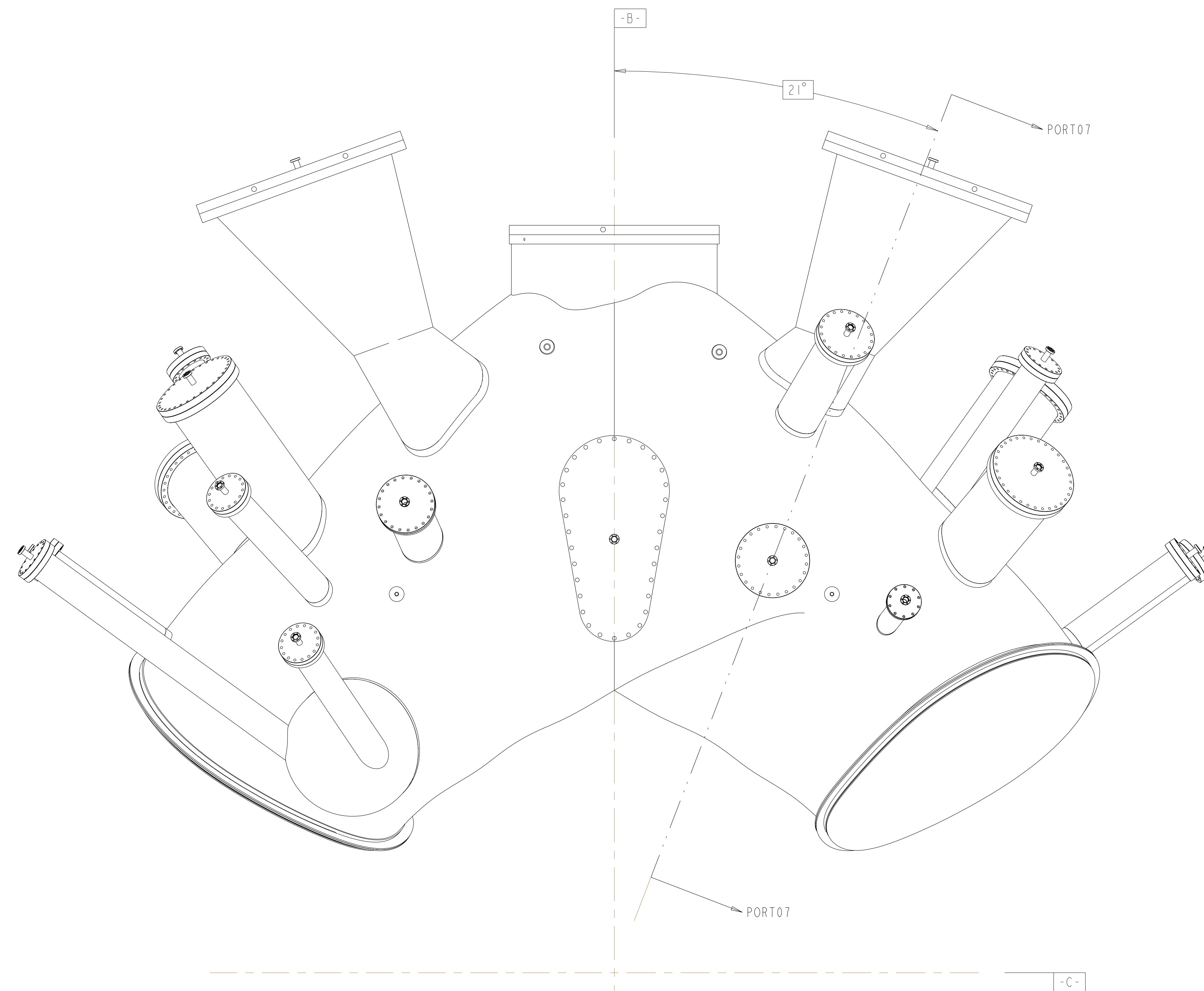


BOTTOM VIEW

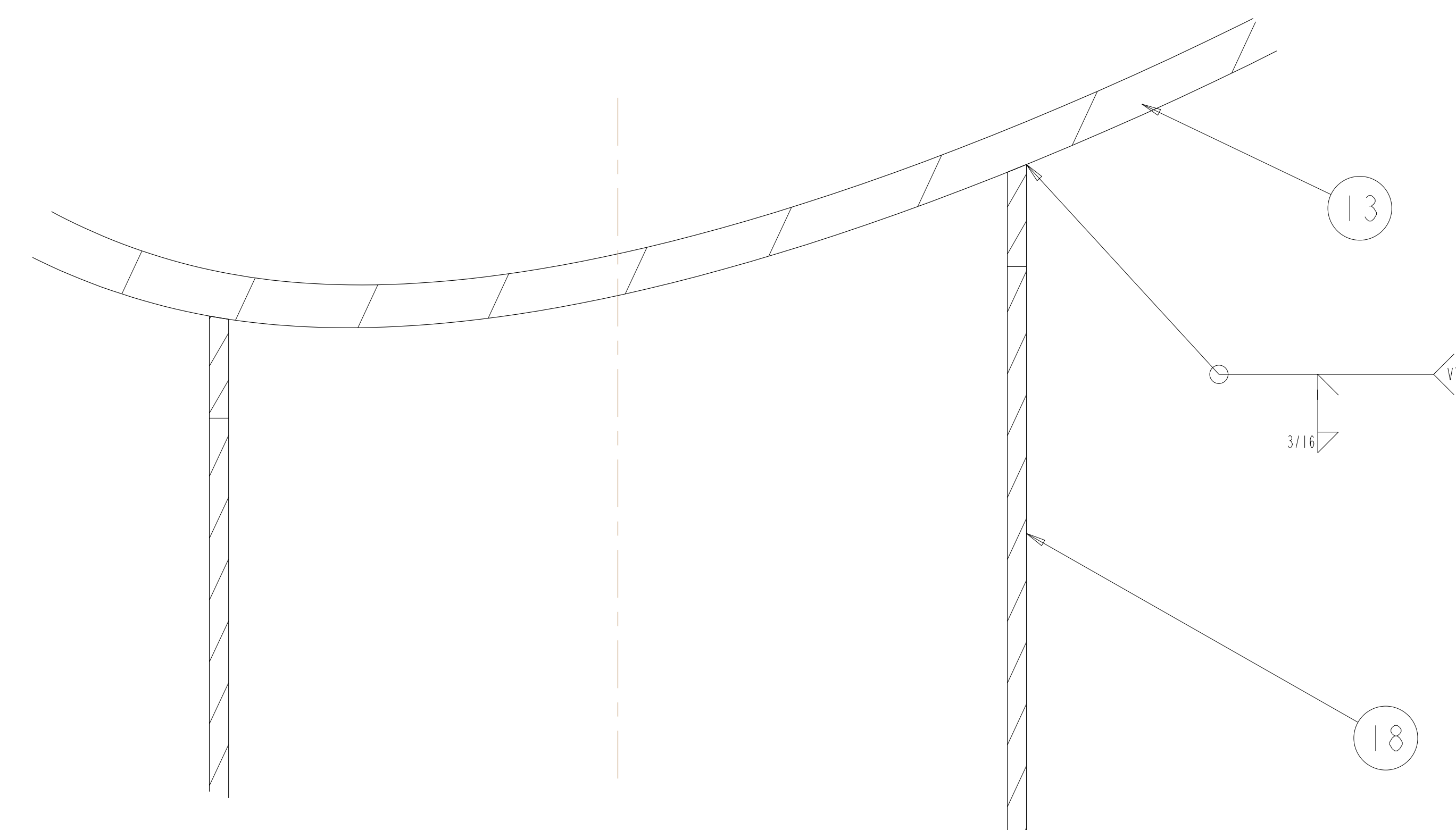
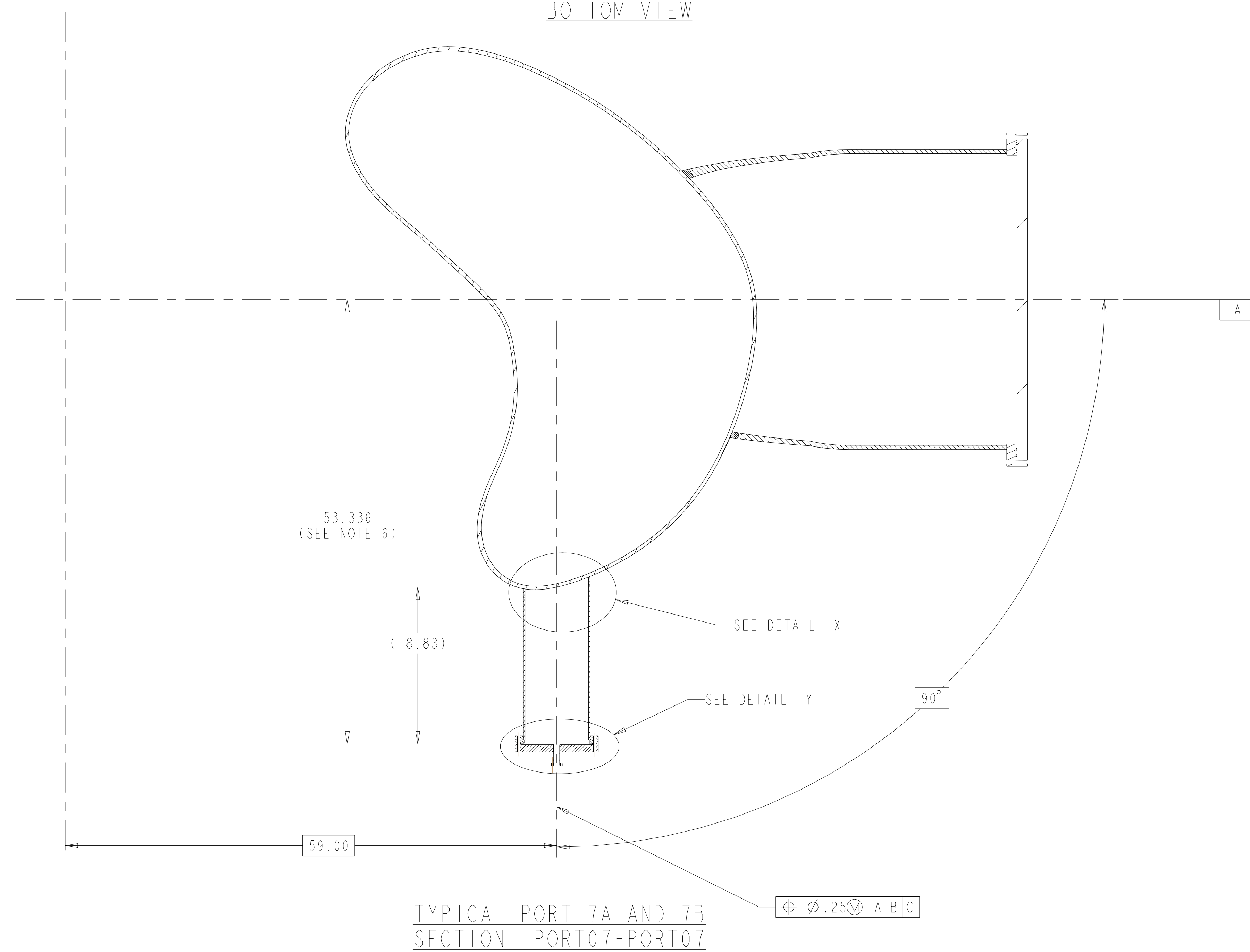
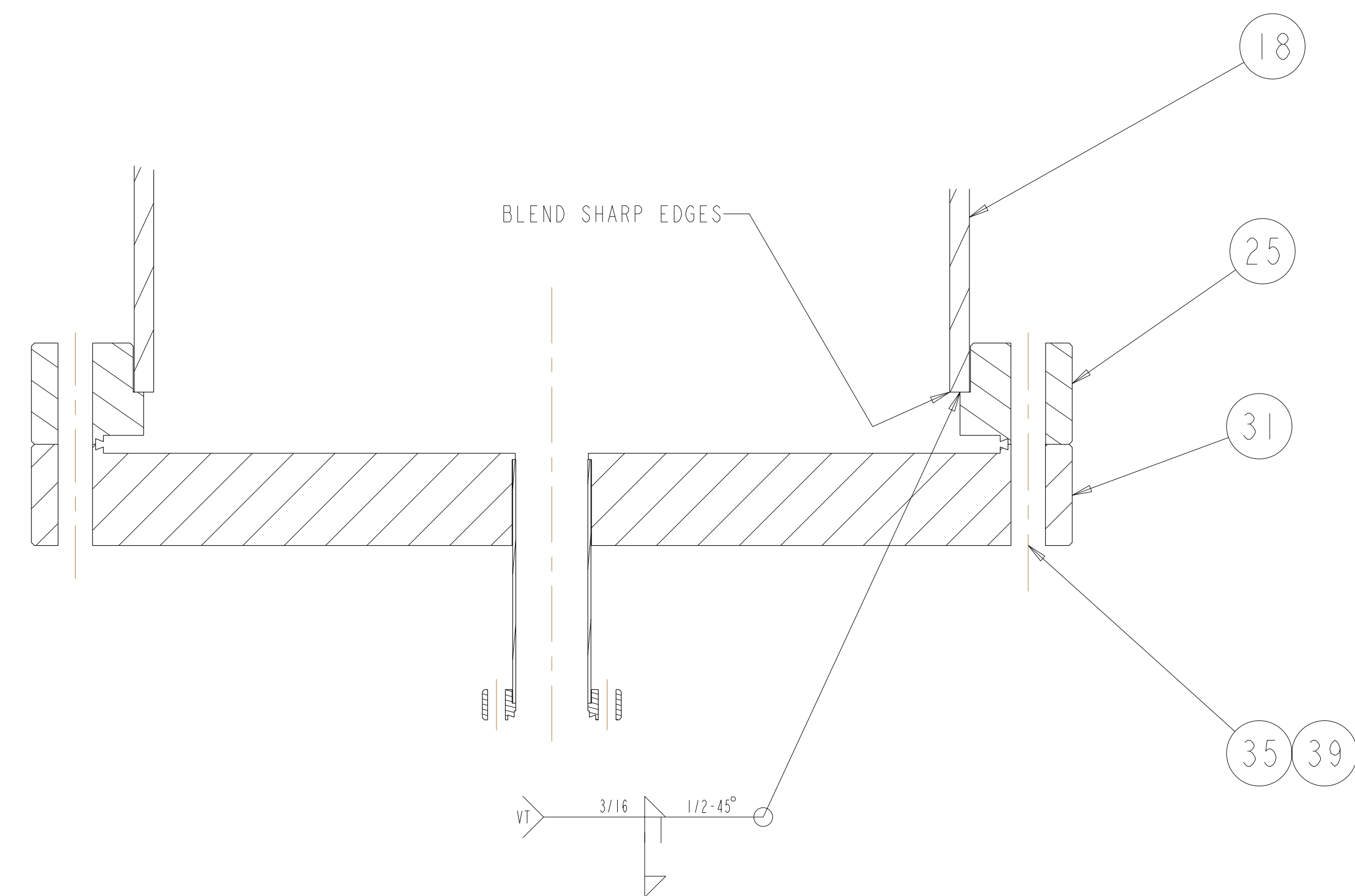
TYPICAL PORT 6A AND 6B
SECTION PORT06-PORT06DETAIL X
SCALE 1.00DETAIL Y
SCALE 1.00

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 NAME		NATIONAL COMPACT STELLARATOR EXPERIMENT					
VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY							
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS	
5	X-10	5700	3	7 19	A	U	
RELEASE LEVEL Fabrication		SEI20-004					
		REV 2					

FOR PARTS LIST AND NOTES SEE SHEET 1.

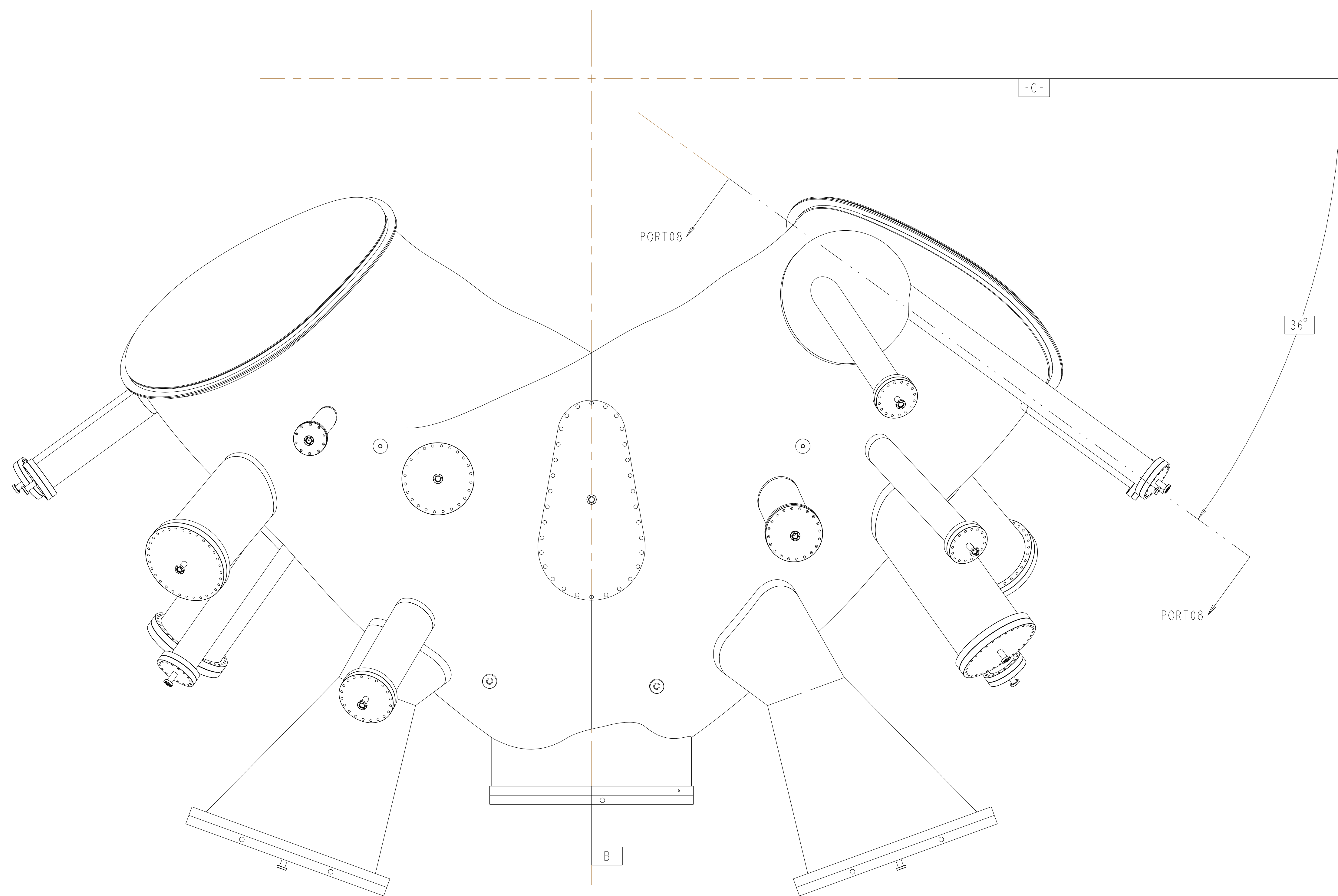


BOTTOM VIEW

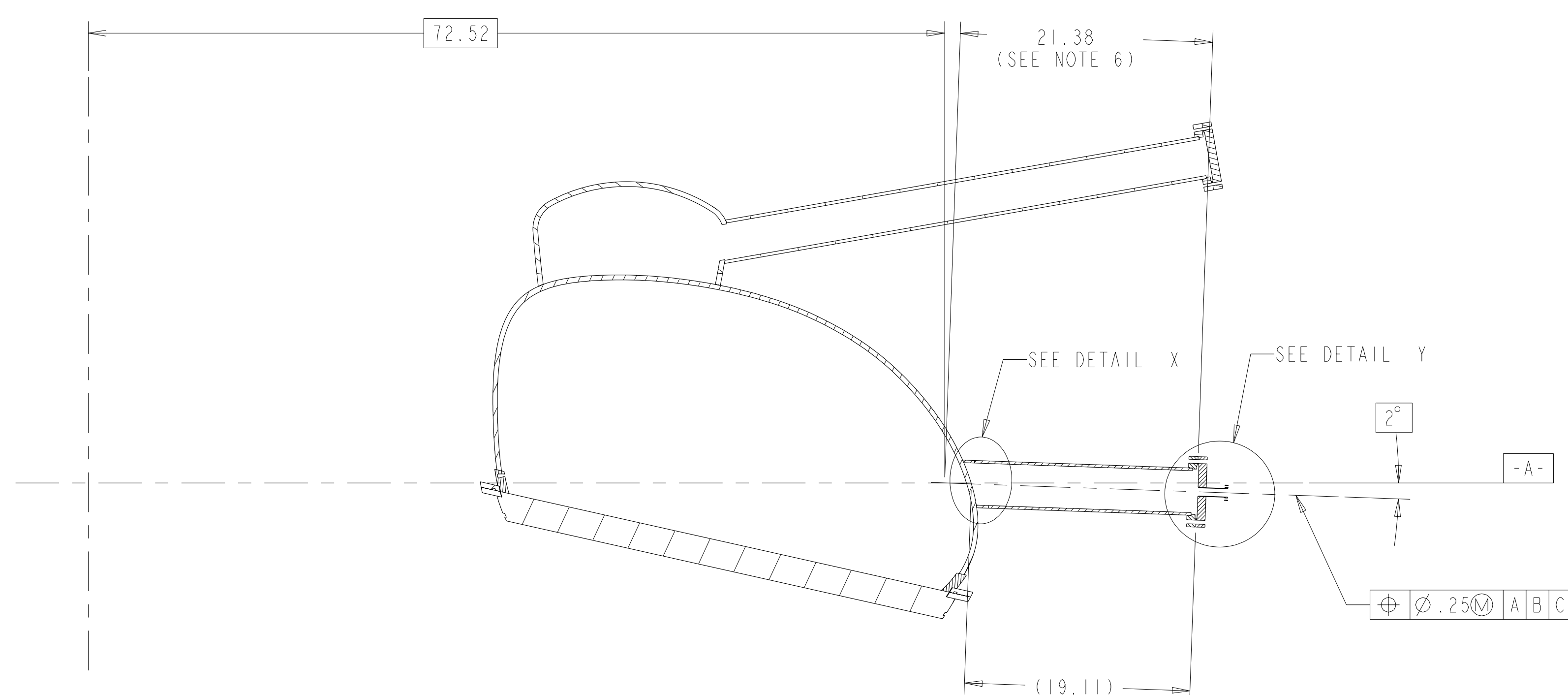
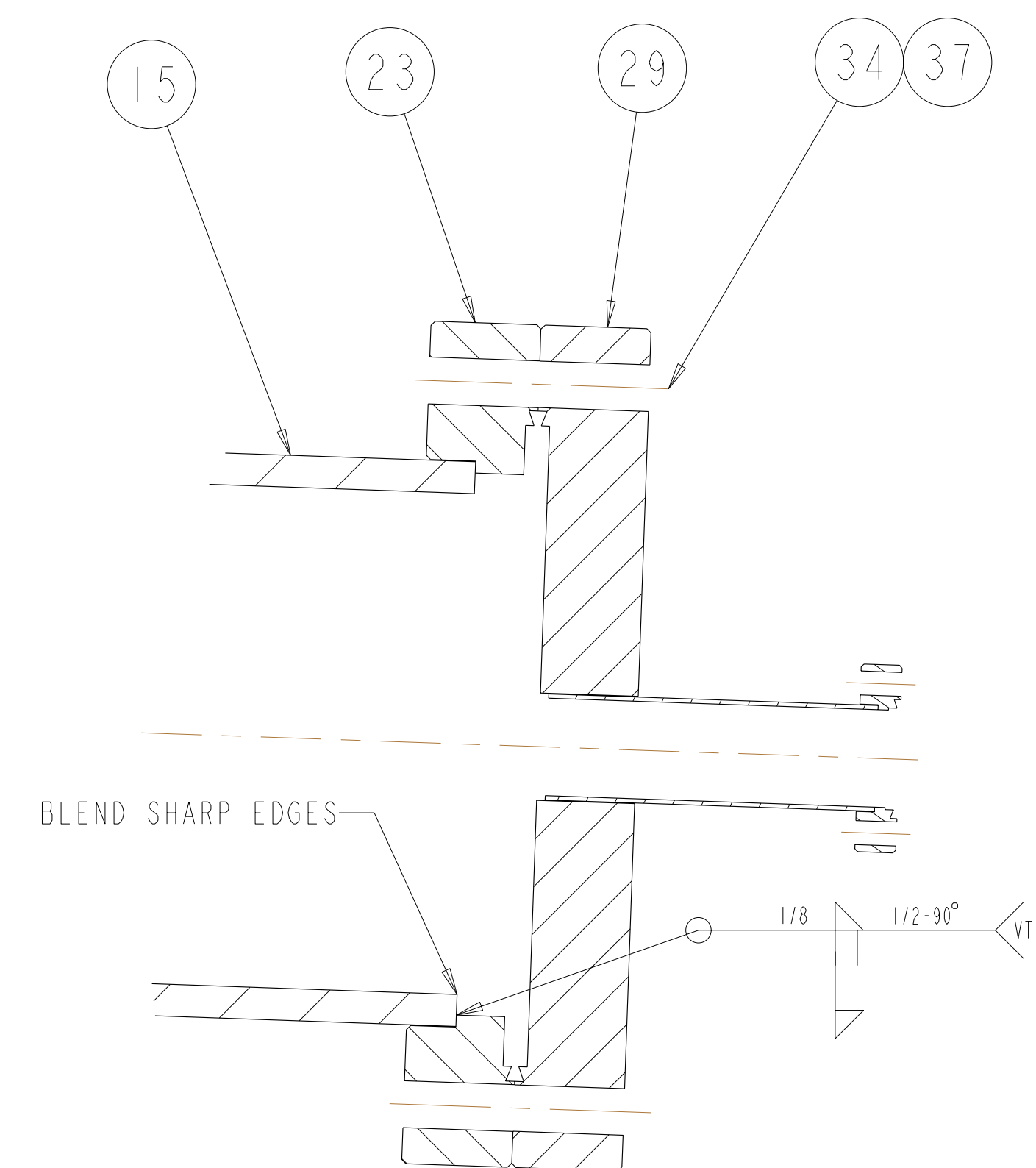
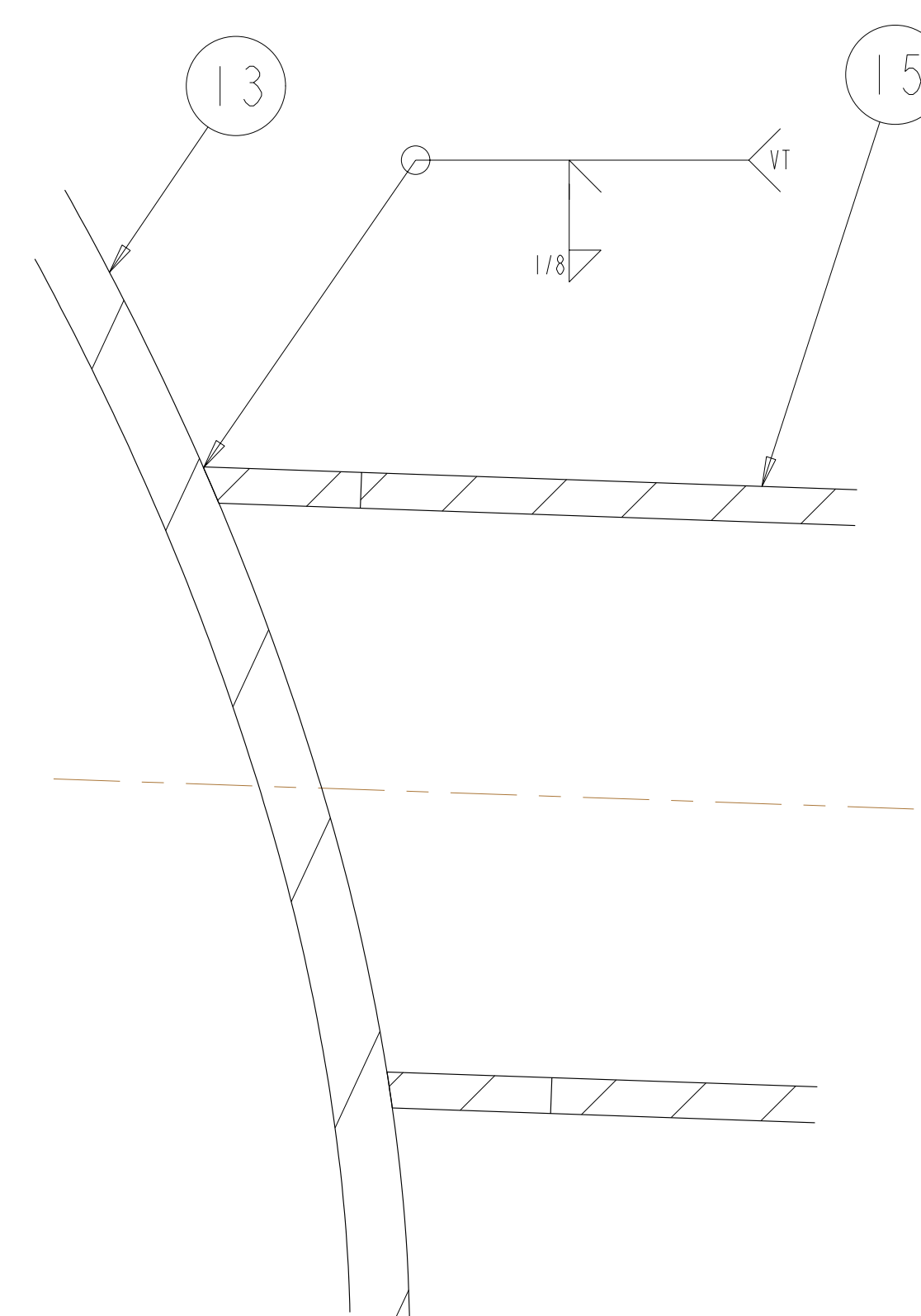
DETAIL X
SCALE 1.00DETAIL Y
SCALE 1.00

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 NAME		NATIONAL COMPACT STELLARATOR EXPERIMENT	
RELEASE LEVEL		Fabrication	
VERSION NO.		5	
PLANT		X-10	
BLDG		5700	
FL		3	
SHT OF		8 19	
TYPE		A	
CLASS		U	
REV		2	

FOR PARTS LIST AND NOTES SEE SHEET 1.

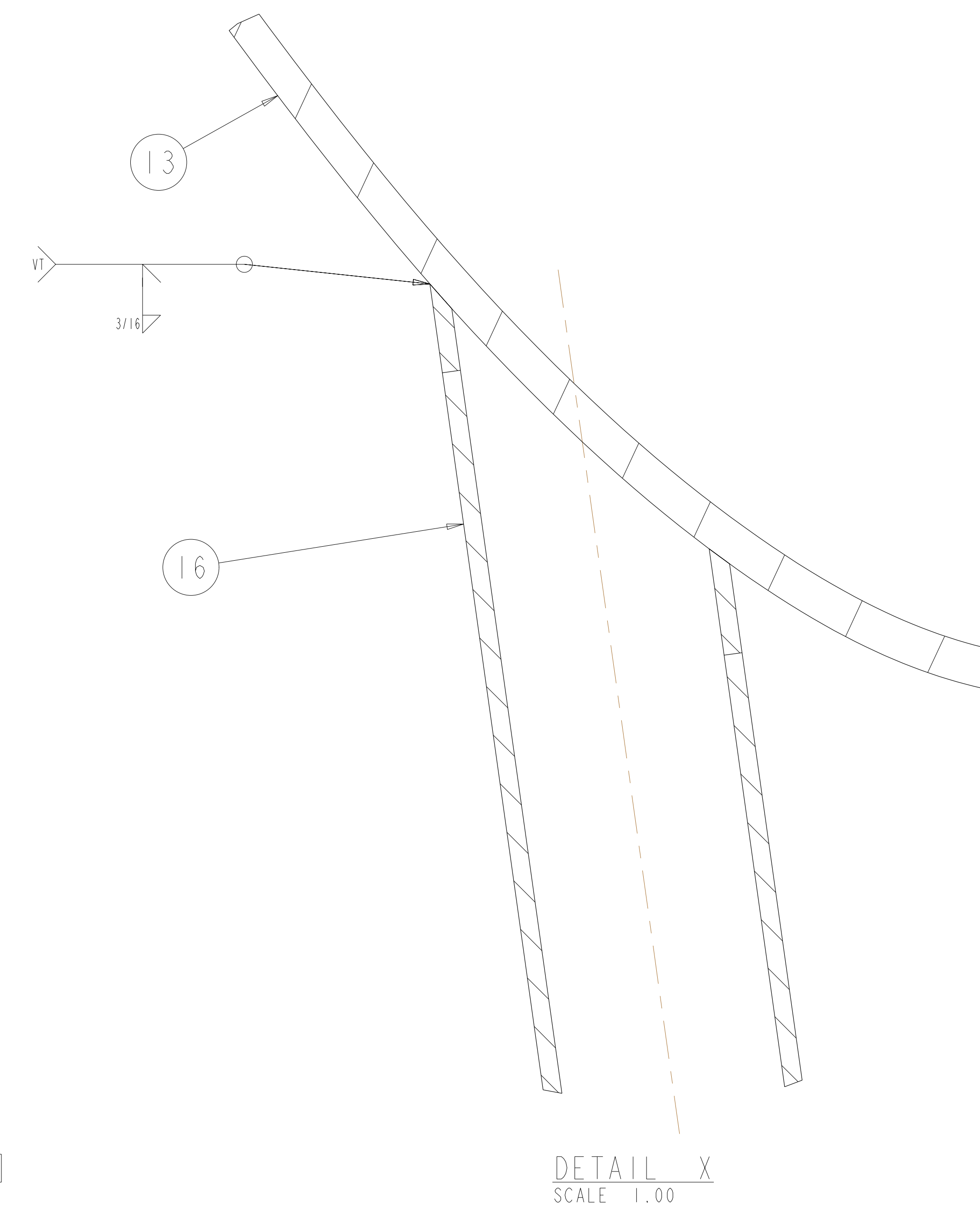
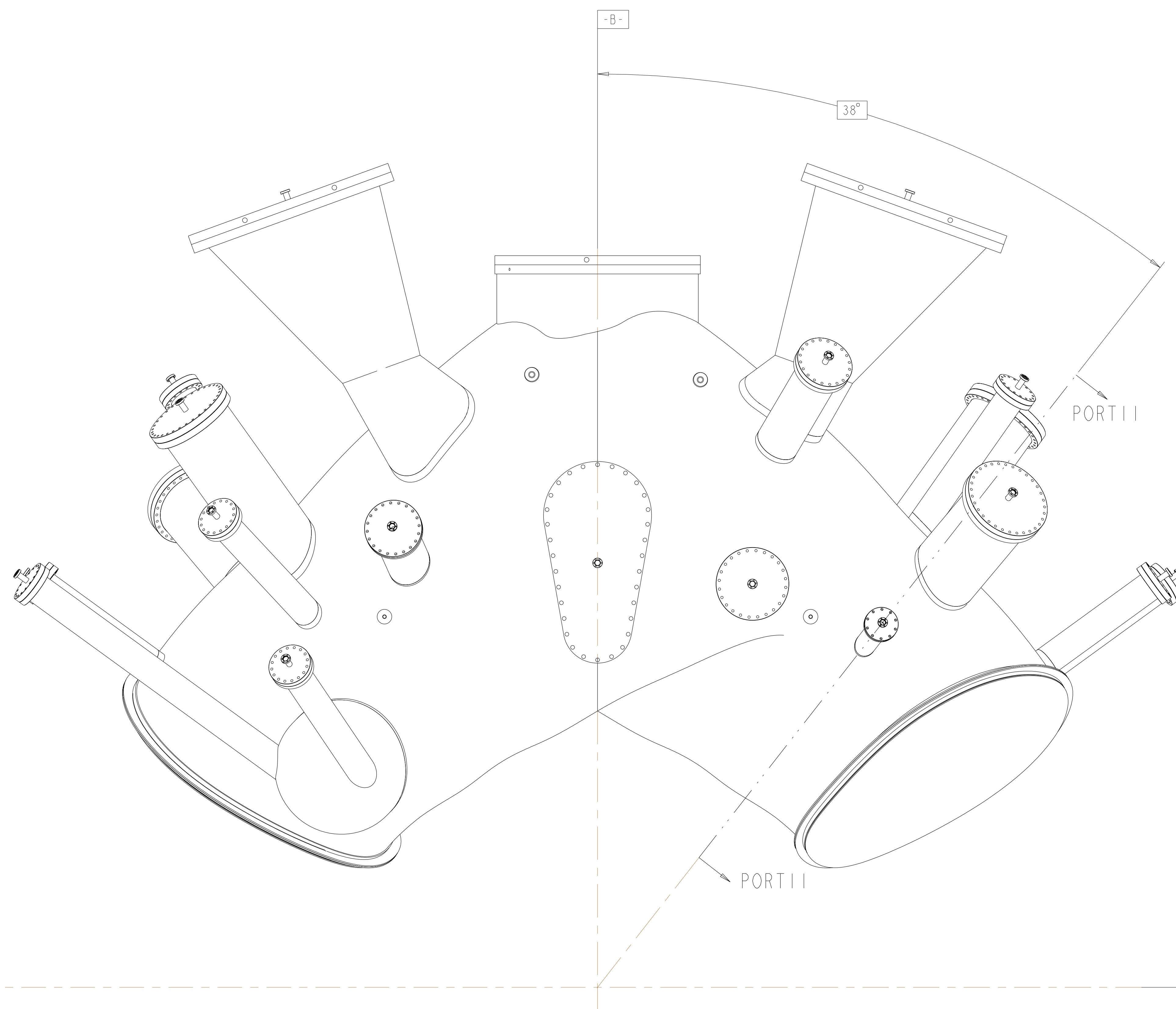


TOP VIEW

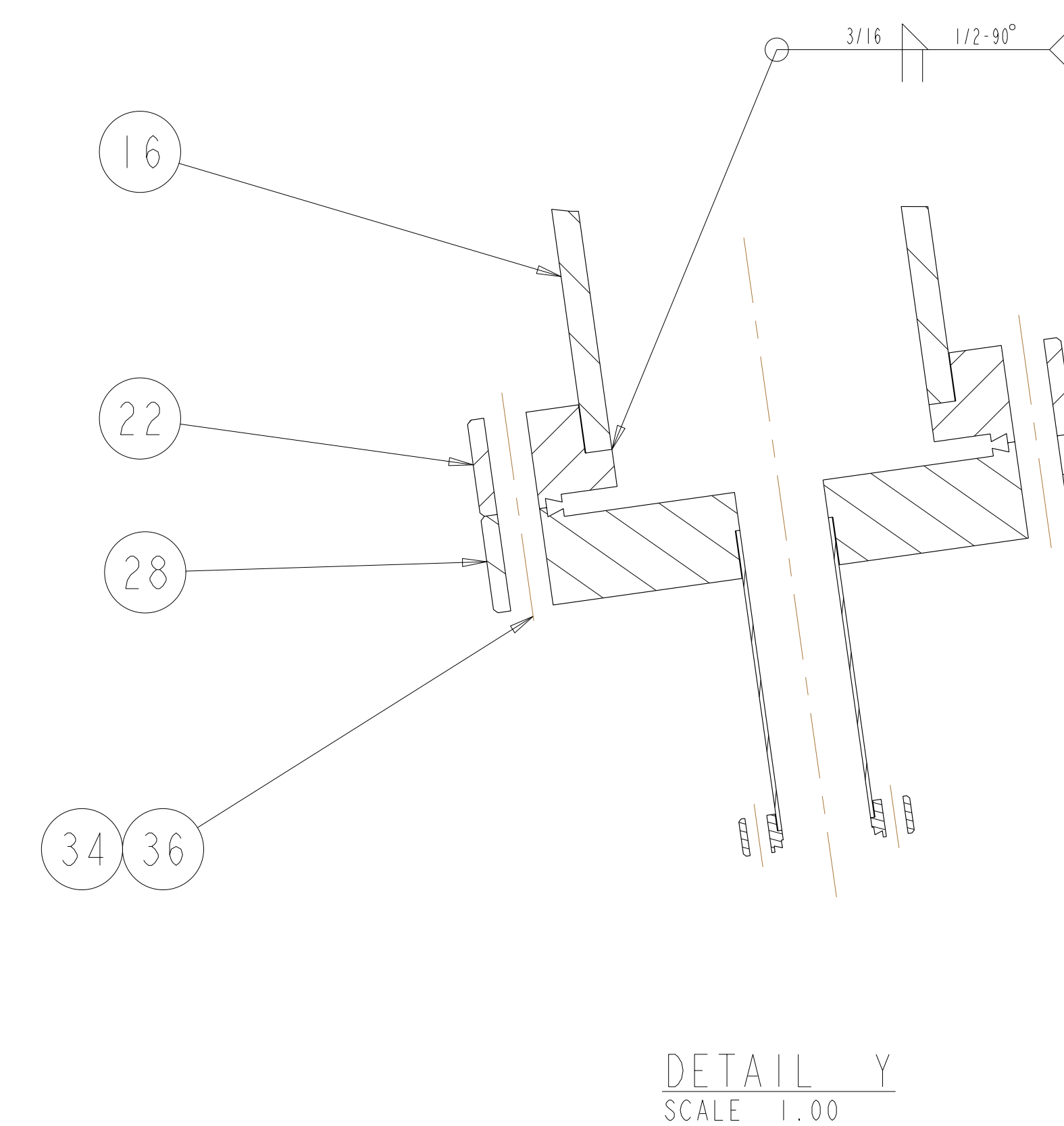
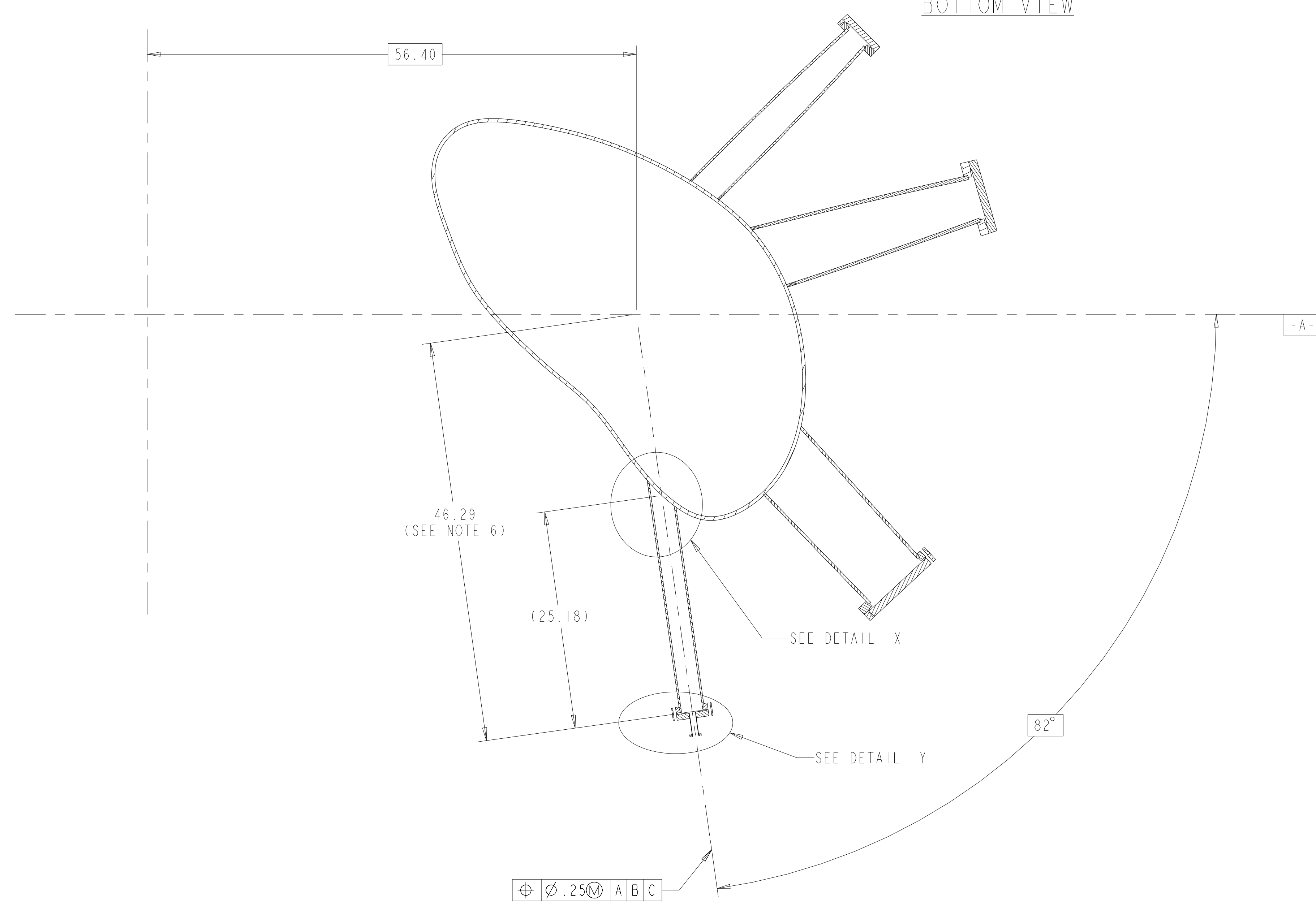
TYPICAL PORT 8A AND 8B
SECTION PORT08-PORT08DETAIL Y
SCALE 1.00DETAIL X
SCALE 1.00

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 NAME		NATIONAL COMPACT STELLERATOR EXPERIMENT					
		VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY					
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS	
5	X-10	5700	3	9 19	A	U	
RELEASE LEVEL Fabrication		SE120-004					
		REV 2					

FOR PARTS LIST AND NOTES SEE SHEET 1.

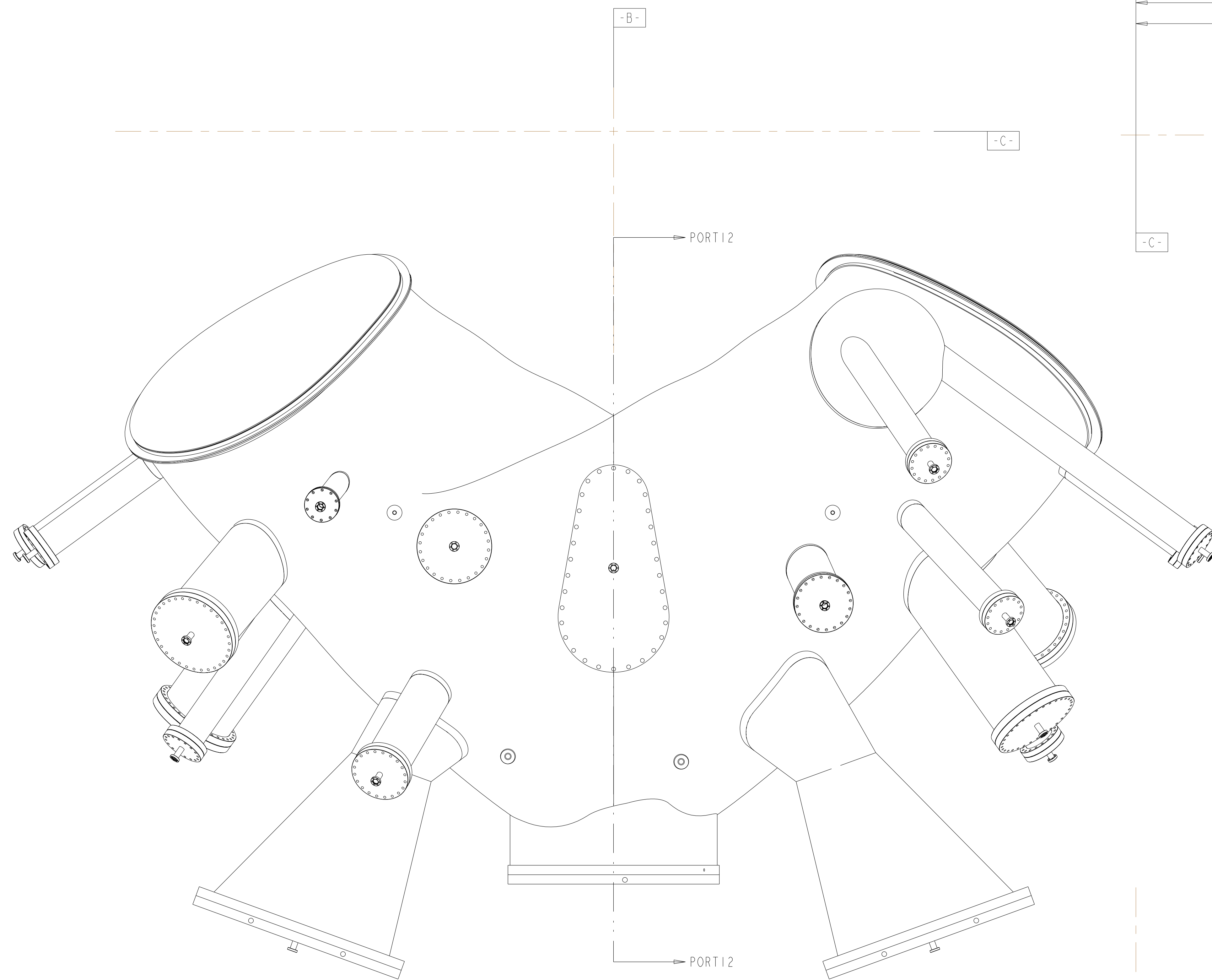


BOTTOM VIEW

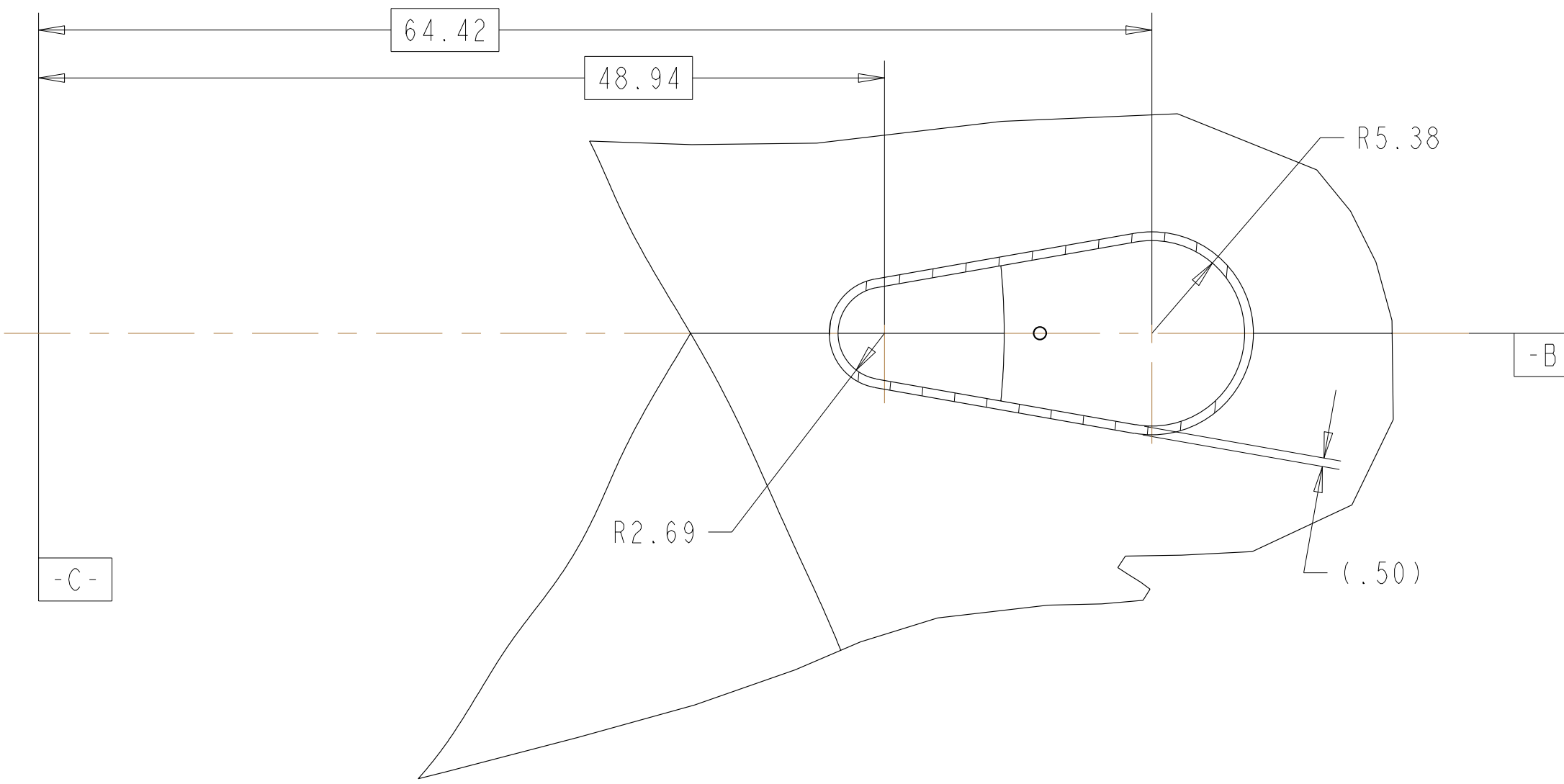
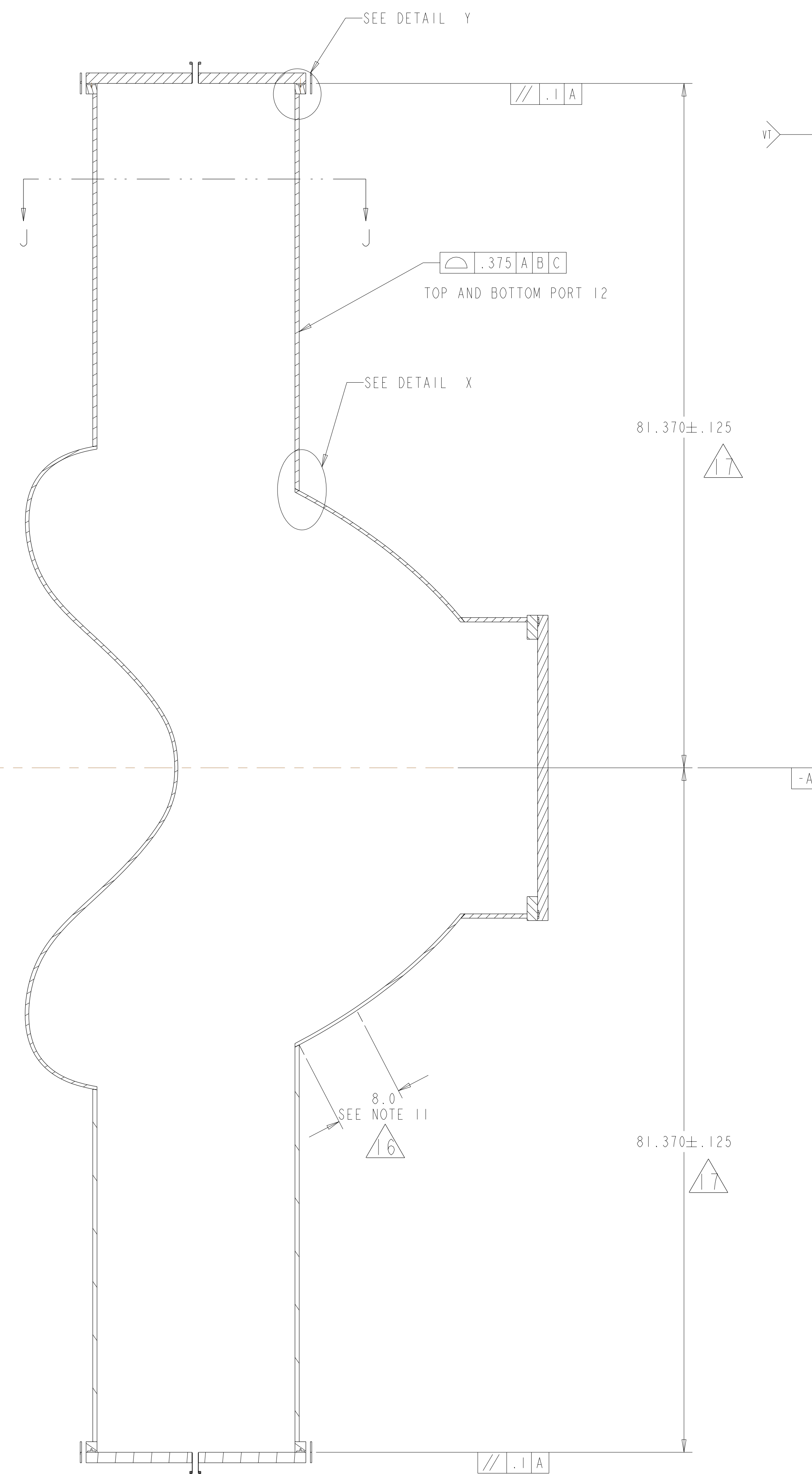
TYPICAL PORT IIA AND IIB
SECTION PORT IIA-PORT IIB

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 NAME		NATIONAL COMPACT STELLARATOR EXPERIMENT					
RELEASE LEVEL		VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY					
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS	
5	X-10	5700	3	12 19	A	U	
RELEASE LEVEL		SEI20-004					
Fabrication		REV 2					

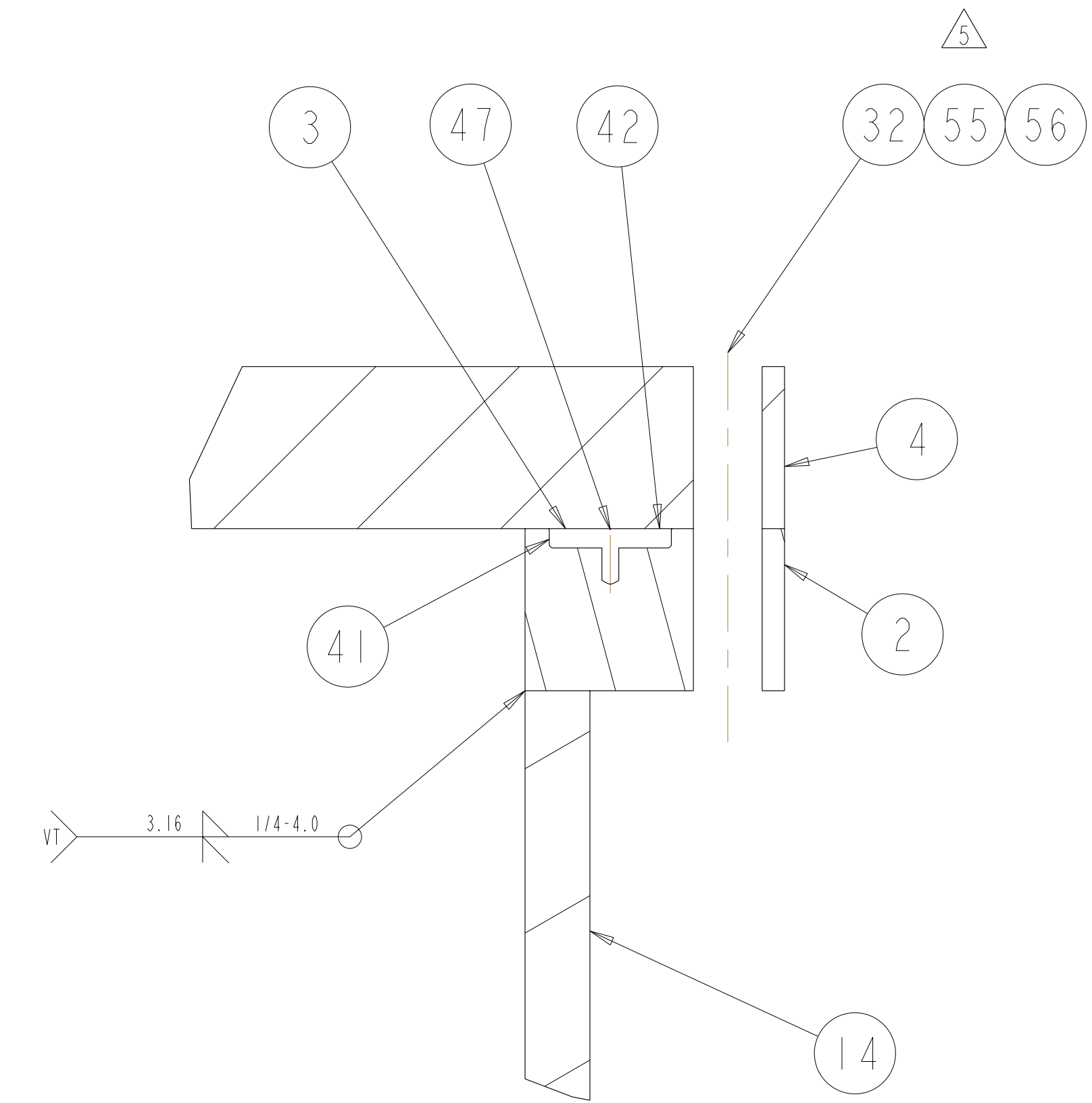
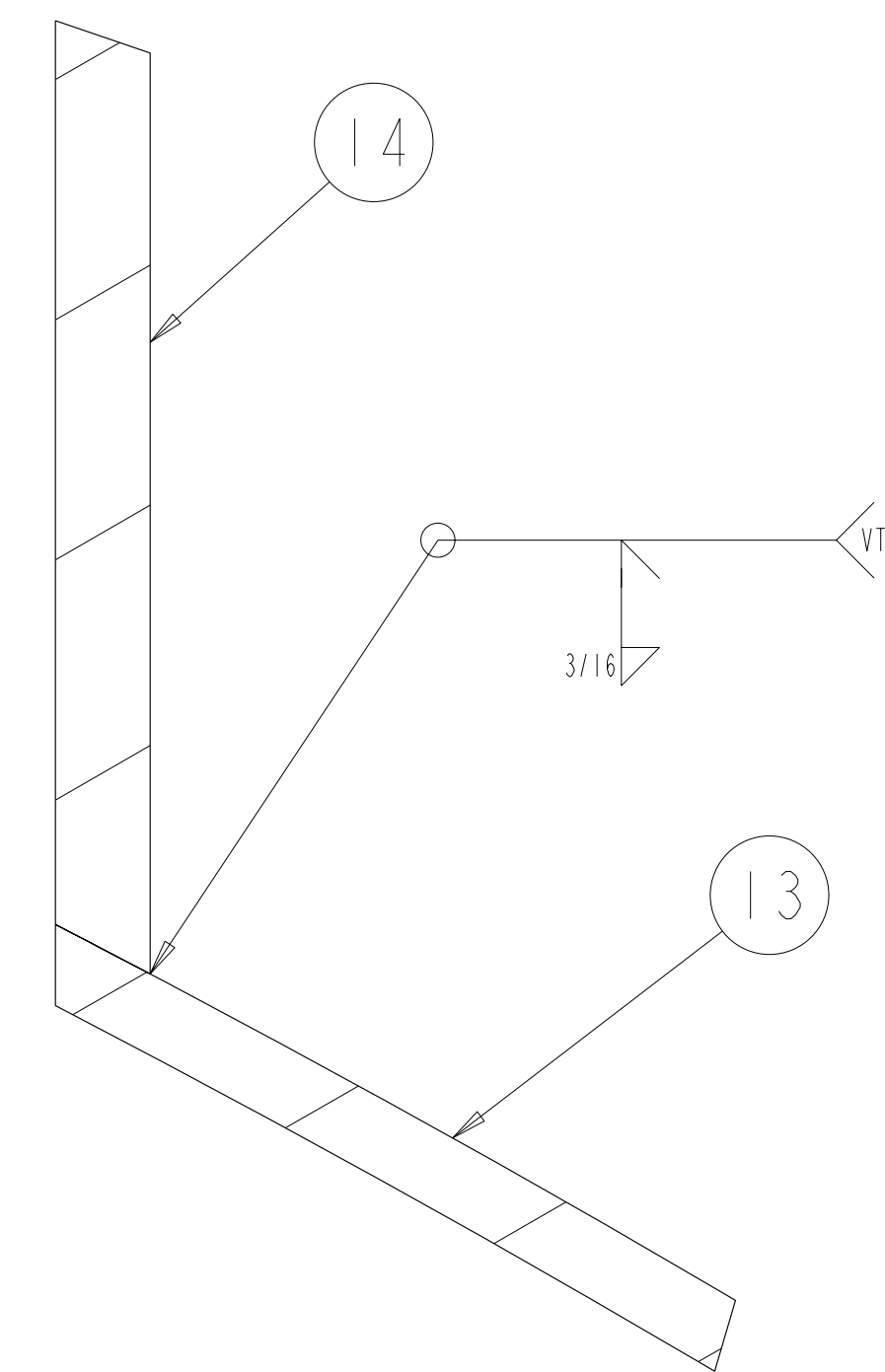
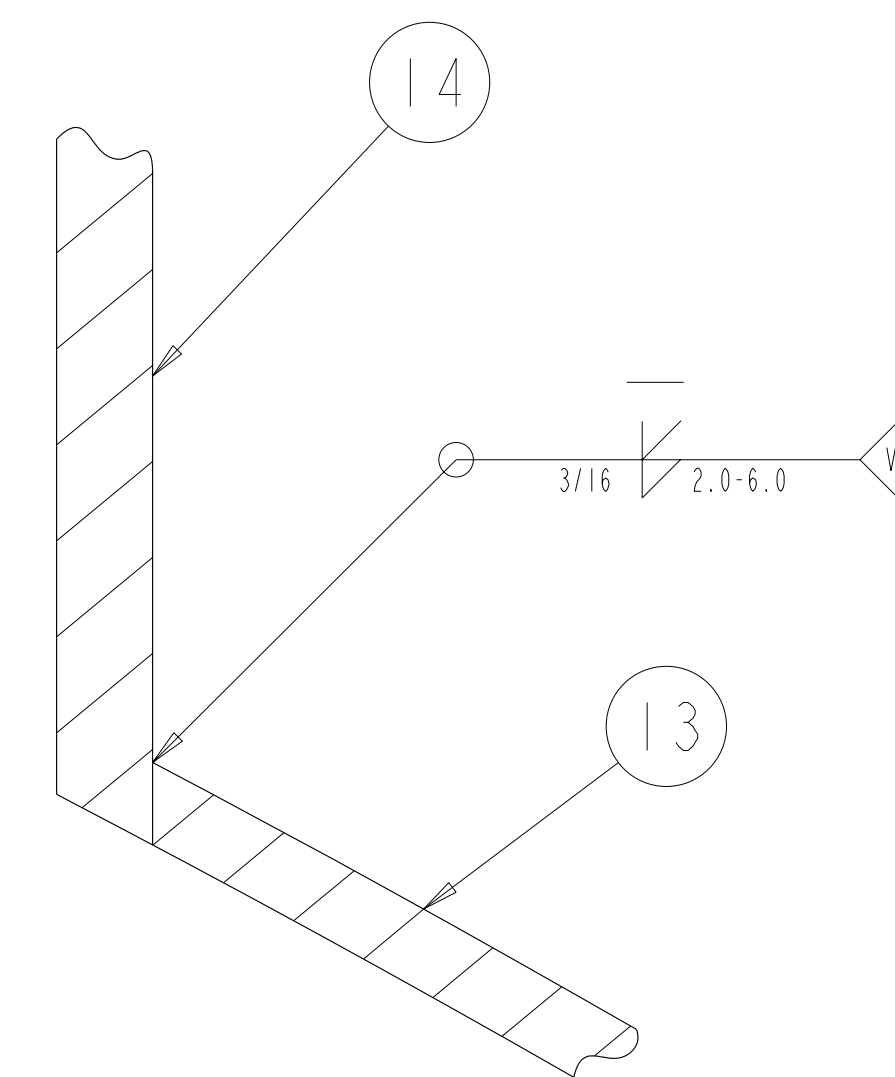
FOR PARTS LIST AND NOTES SEE SHEET 1.



TOP VIEW

SECTION J-J
TYP TOP AND BOTTOM

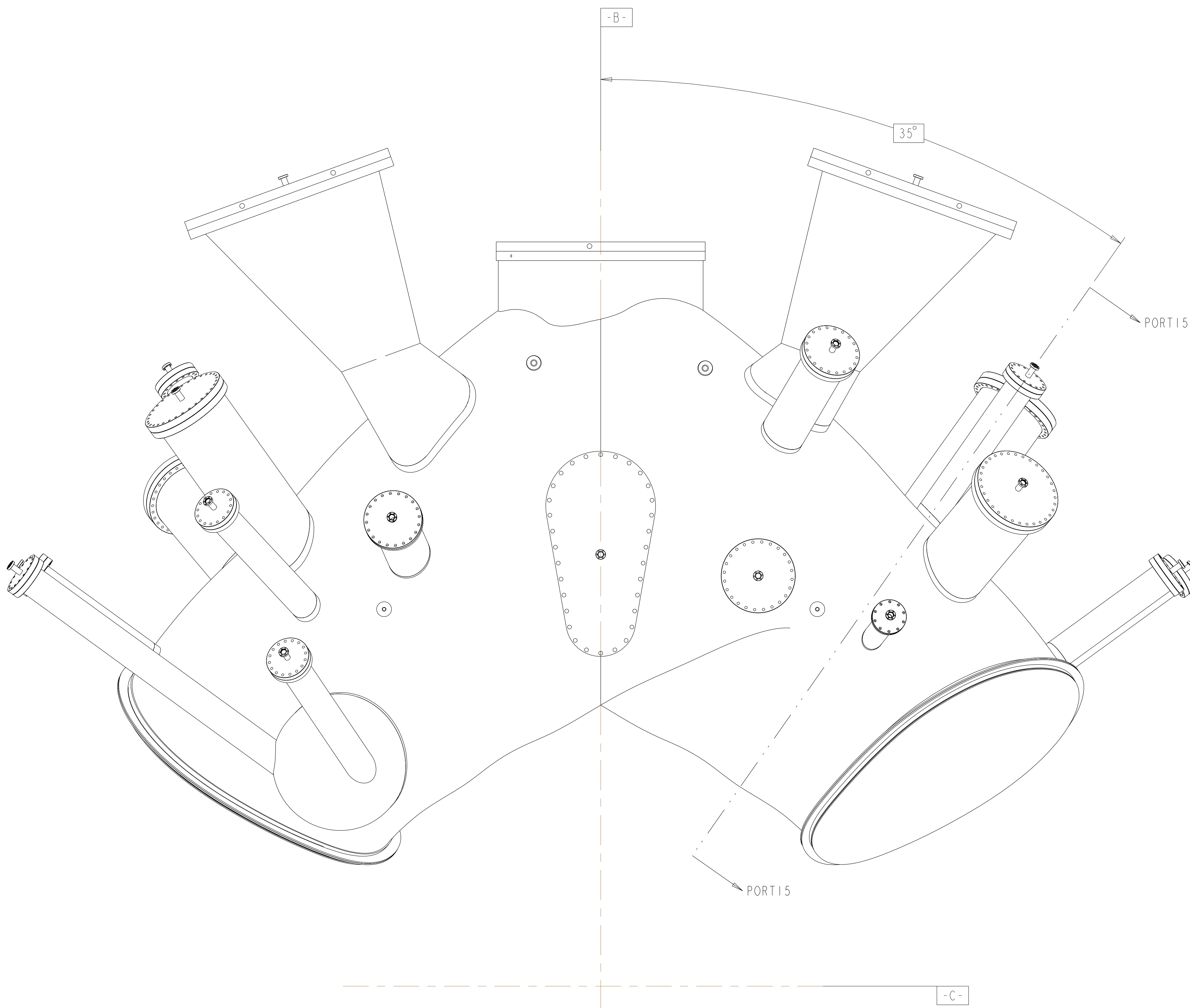
SECTION PORT12-PORT12

DETAIL Y
SCALE 1:1DETAIL X
SCALE 1:1

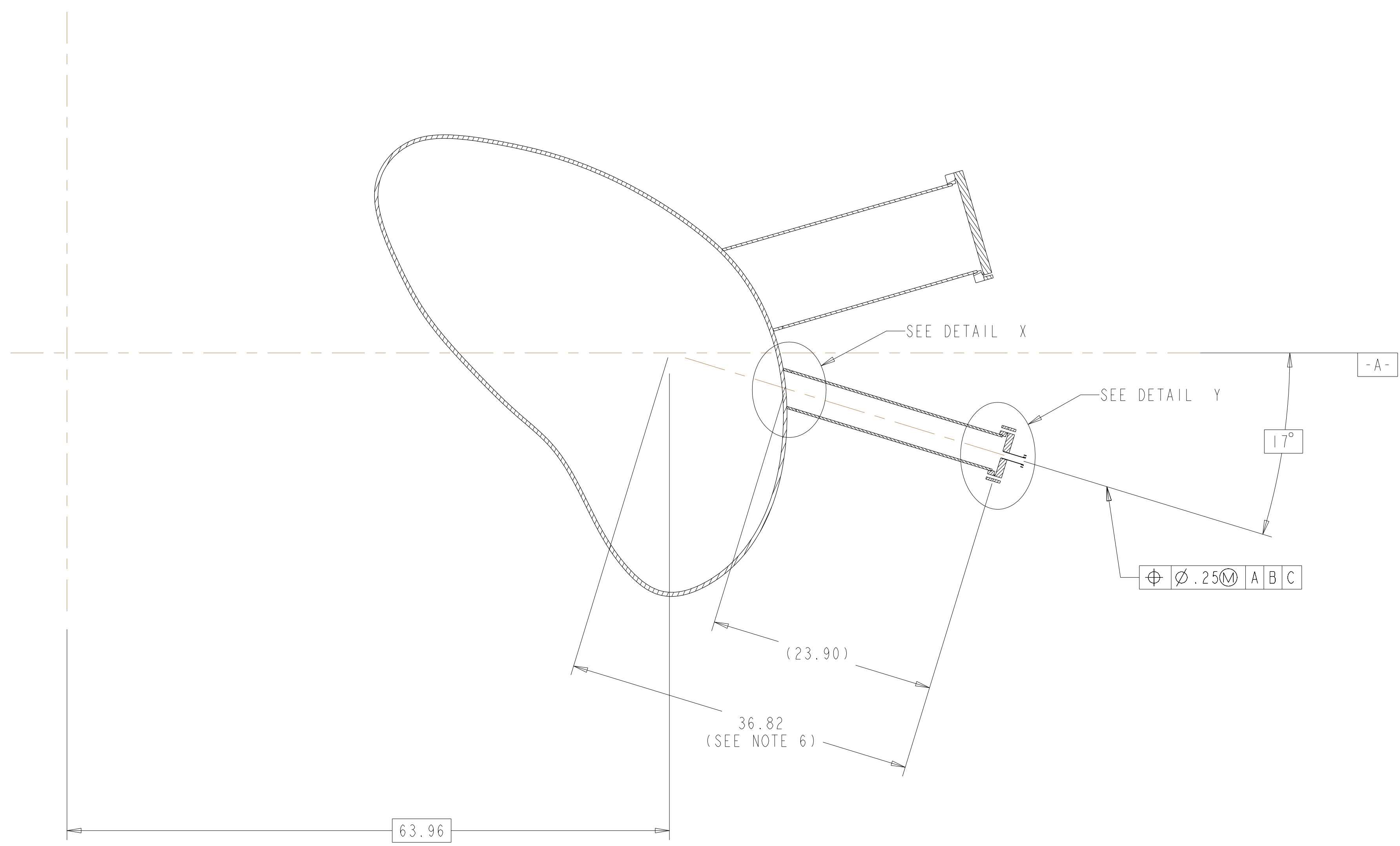
OPTIONAL WELD DETAIL

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 NAME							
NATIONAL COMPACT STELLARATOR EXPERIMENT							
VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY							
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS	
5	X-10	5700	3	13 19	A	U	
RELEASE LEVEL	SEI20-004						REV
Fabrication							2

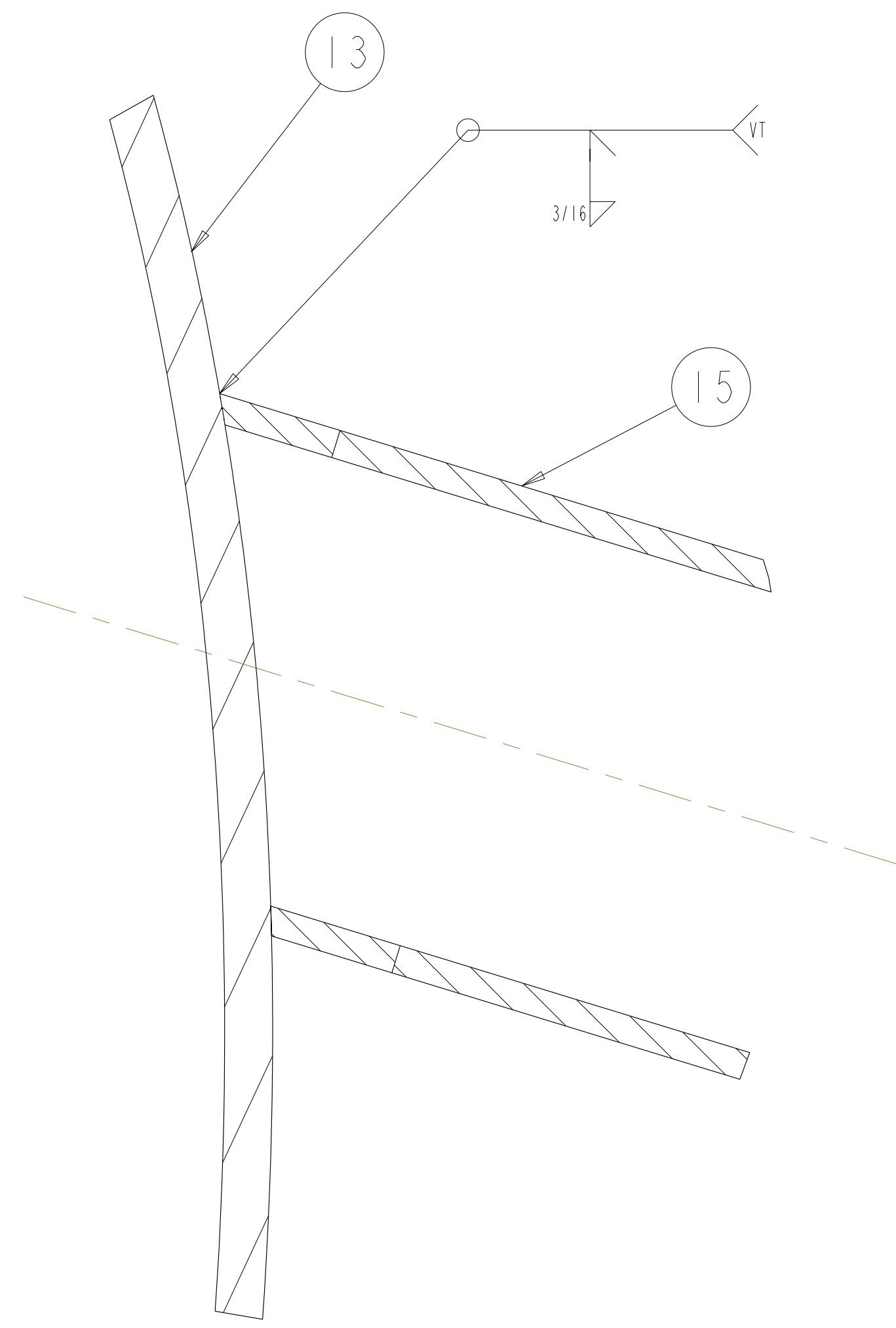
FOR PARTS LIST AND NOTES SEE SHEET 1.



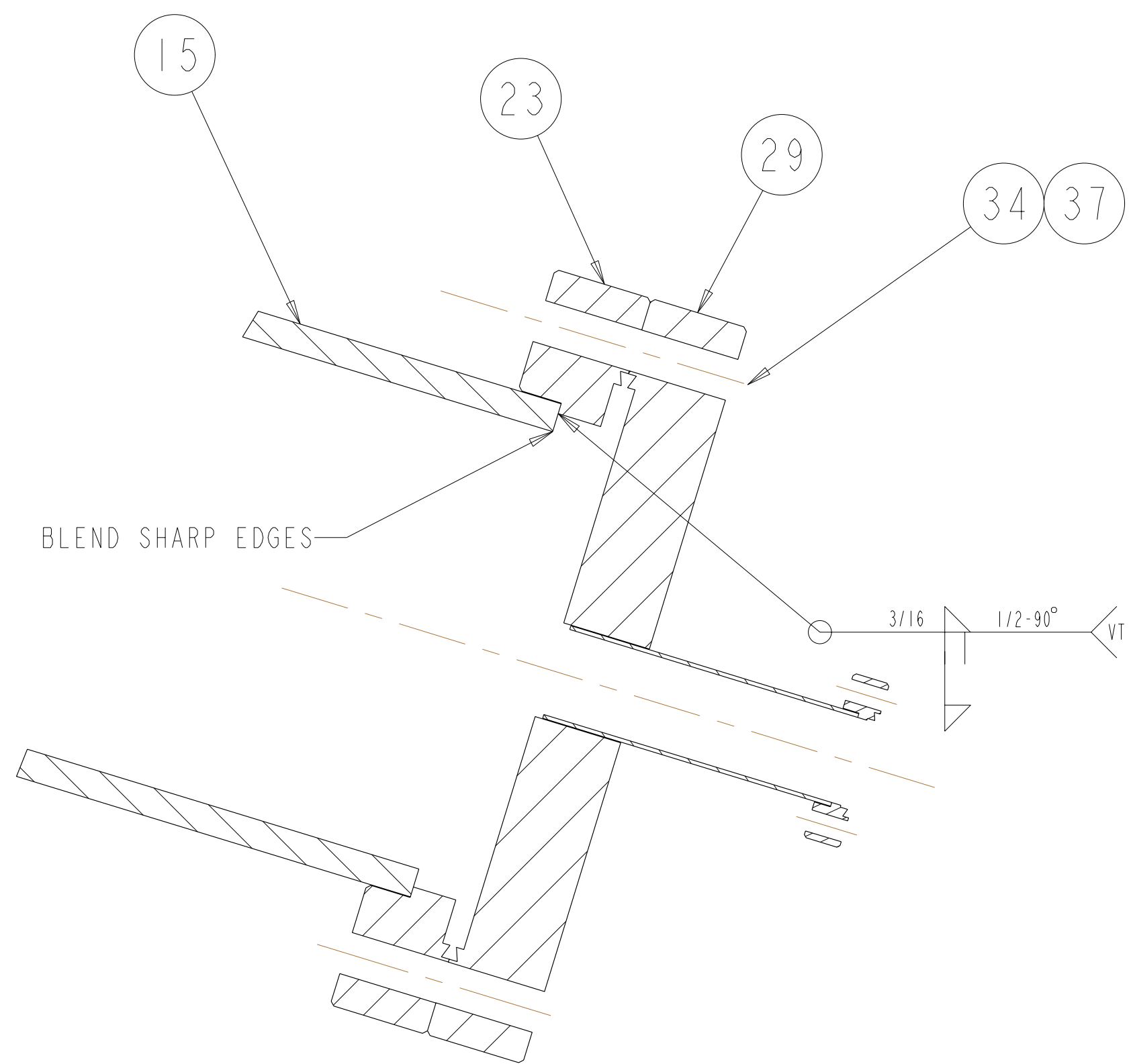
BOTTOM VIEW



TYPICAL PORT 15A AND 15B
SECTION PORT15-PORT15



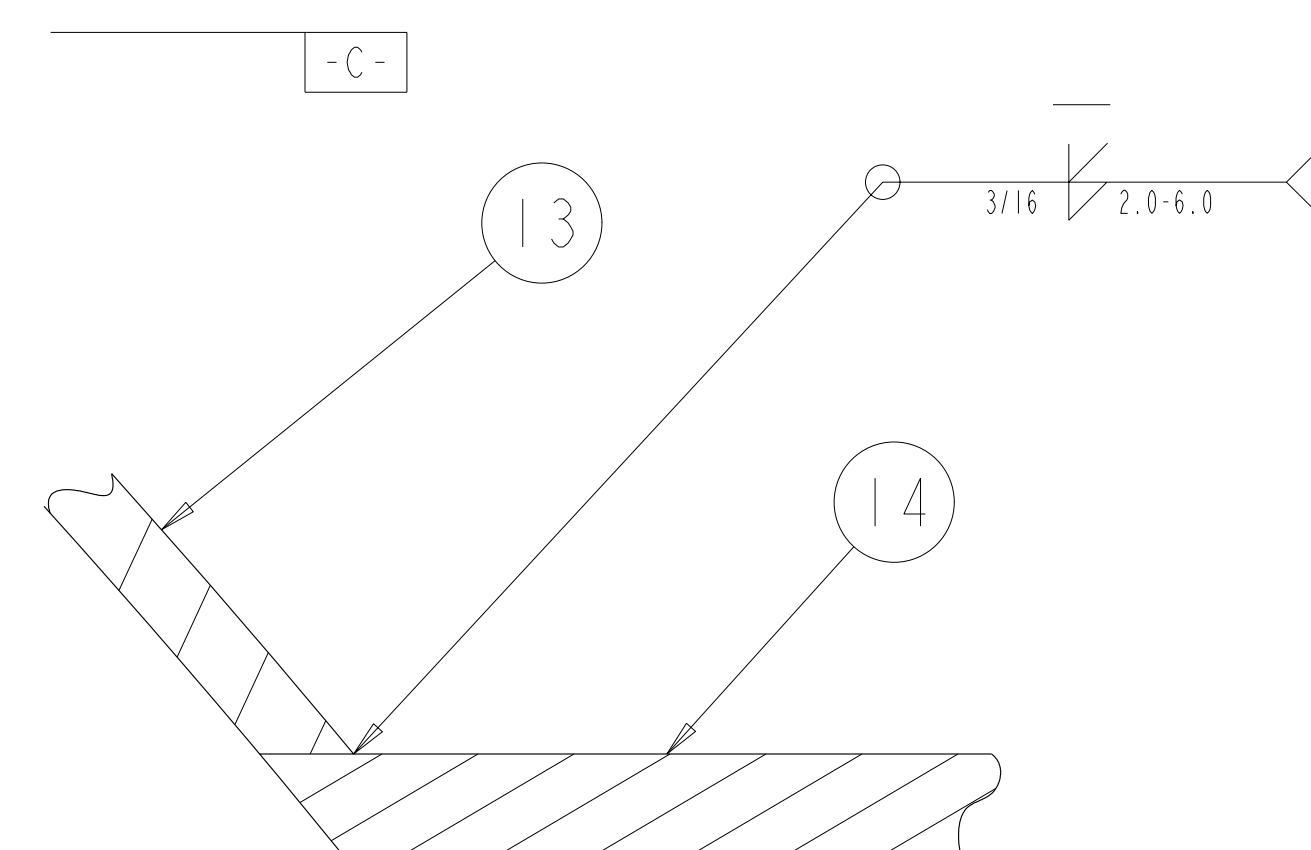
DETAIL X
SCALE 1.00



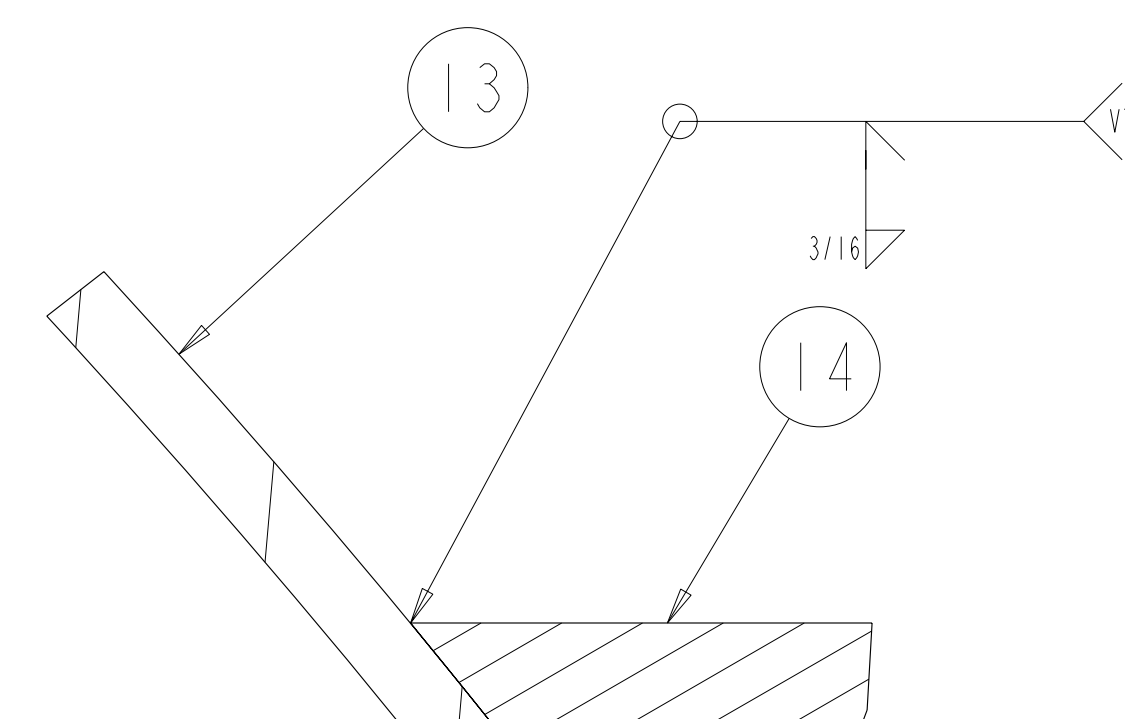
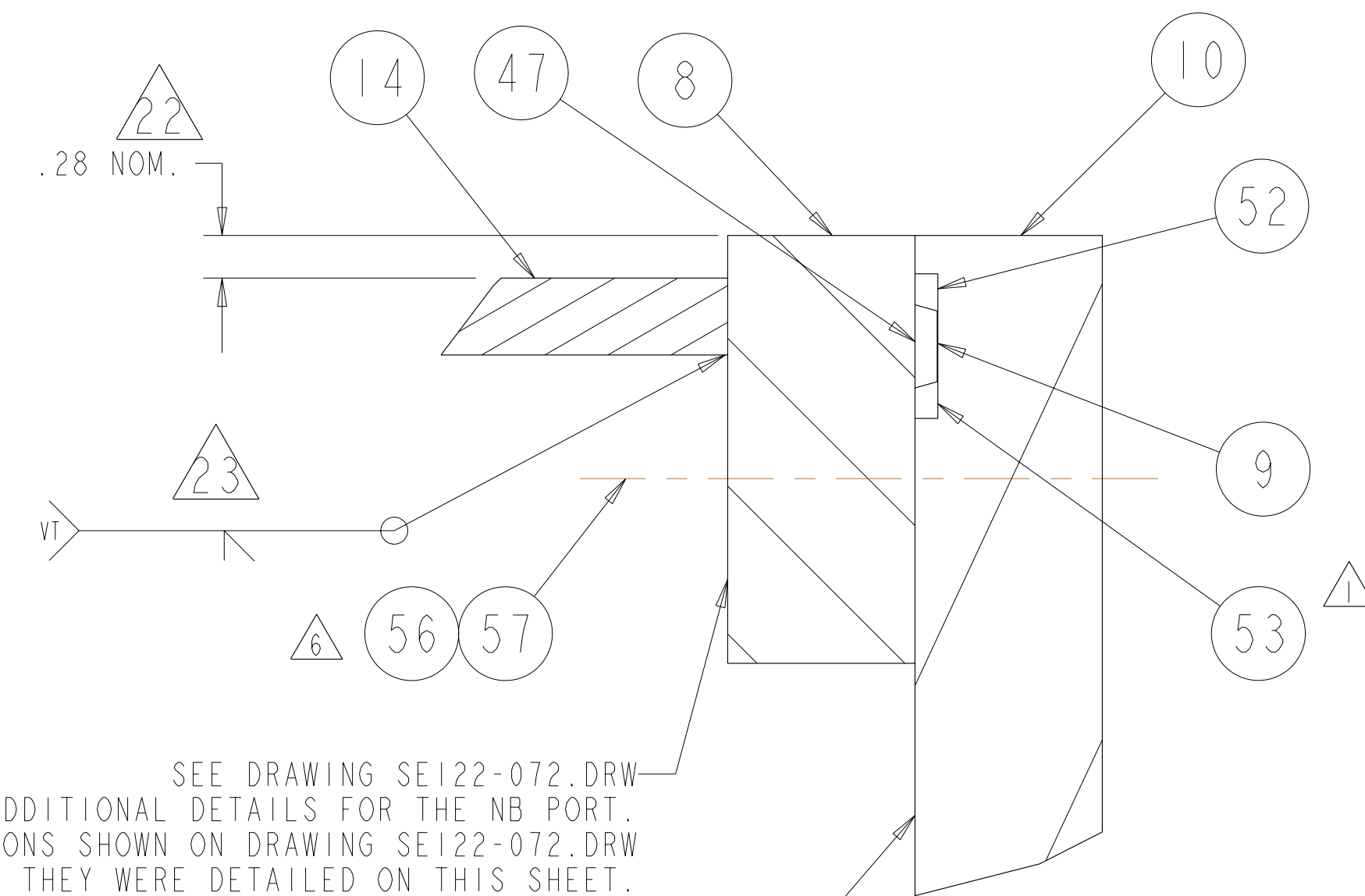
DETAIL Y
SCALE 1.00

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 NAME		NATIONAL COMPACT STELLARATOR EXPERIMENT					
VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY							
VERSION NO. 5	PLANT X-10	BLDG 5700	FL 3	SHT OF 14 19	TYPE A	CLASS U	
RELEASE LEVEL Fabrication		SEI20-004					
		REV 2					

FOR PARTS LIST AND NOTES SEE SHEET 1



OPTIONAL WELD DETAIL

DETAIL X
SCALE 1.00DETAIL Y
SCALE 1.00SEE DRAWING SEI22-172.DRW
FOR ADDITIONAL DETAILS FOR THE NB PORT.
DIMENSIONS SHOWN ON DRAWING SEI22-172.DRW
APPLY AS IF THEY WERE DETAILED ON THIS SHEET.SEE DRAWING SEI22-072.DRW
FOR ADDITIONAL DETAILS FOR THE NB PORT.
DIMENSIONS SHOWN ON DRAWING SEI22-072.DRW
APPLY AS IF THEY WERE DETAILED ON THIS SHEET.SEE DETAIL X
SEE DETAIL Y8.0
SEE NOTE 11

20

SECTION PORTNB-PORTNB

98.641 ± .125

-B-

PORTNB

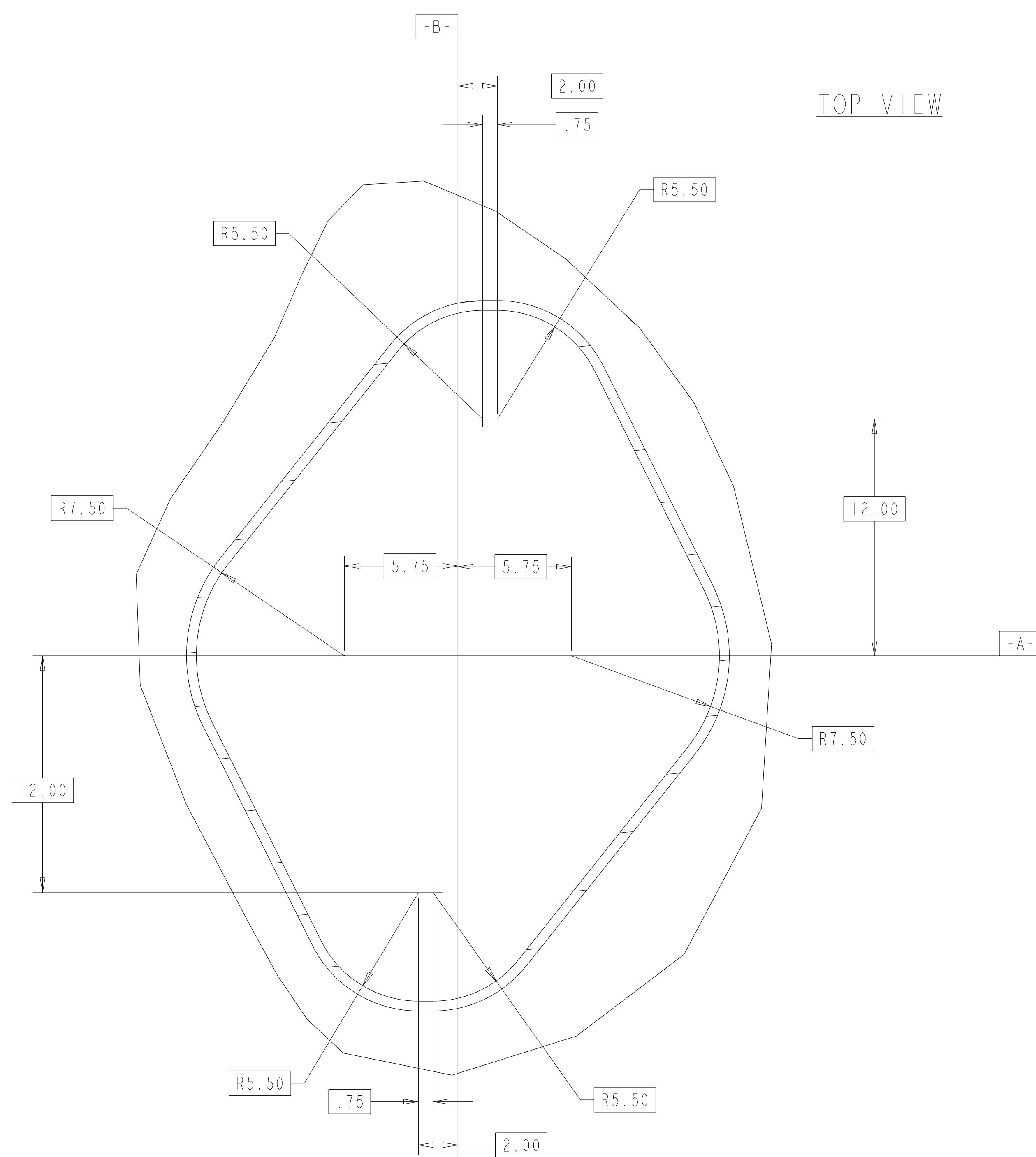
-C-

-C-

PORTNB

-A-

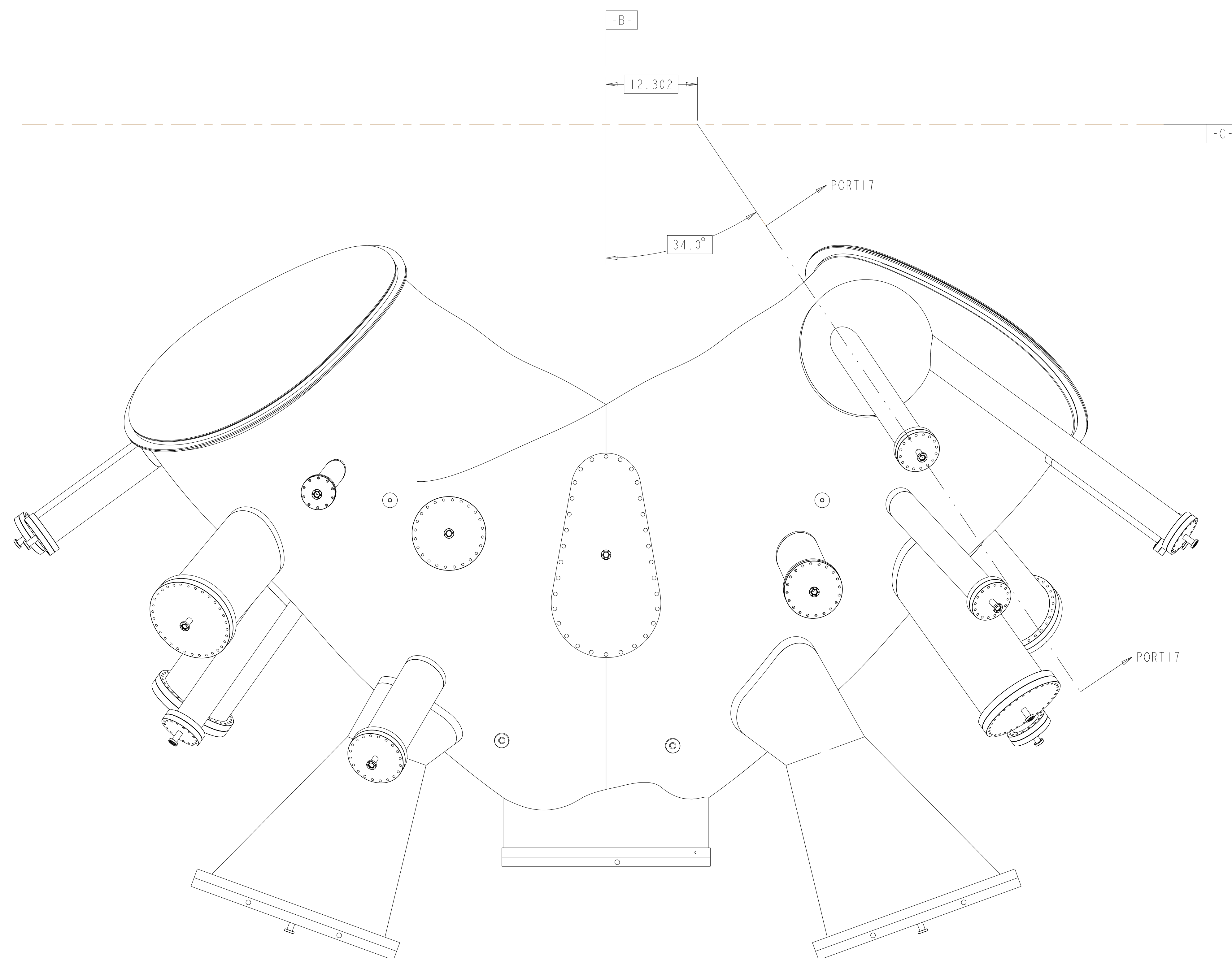
TOP VIEW

SECTION K-K
SCALE 0.25

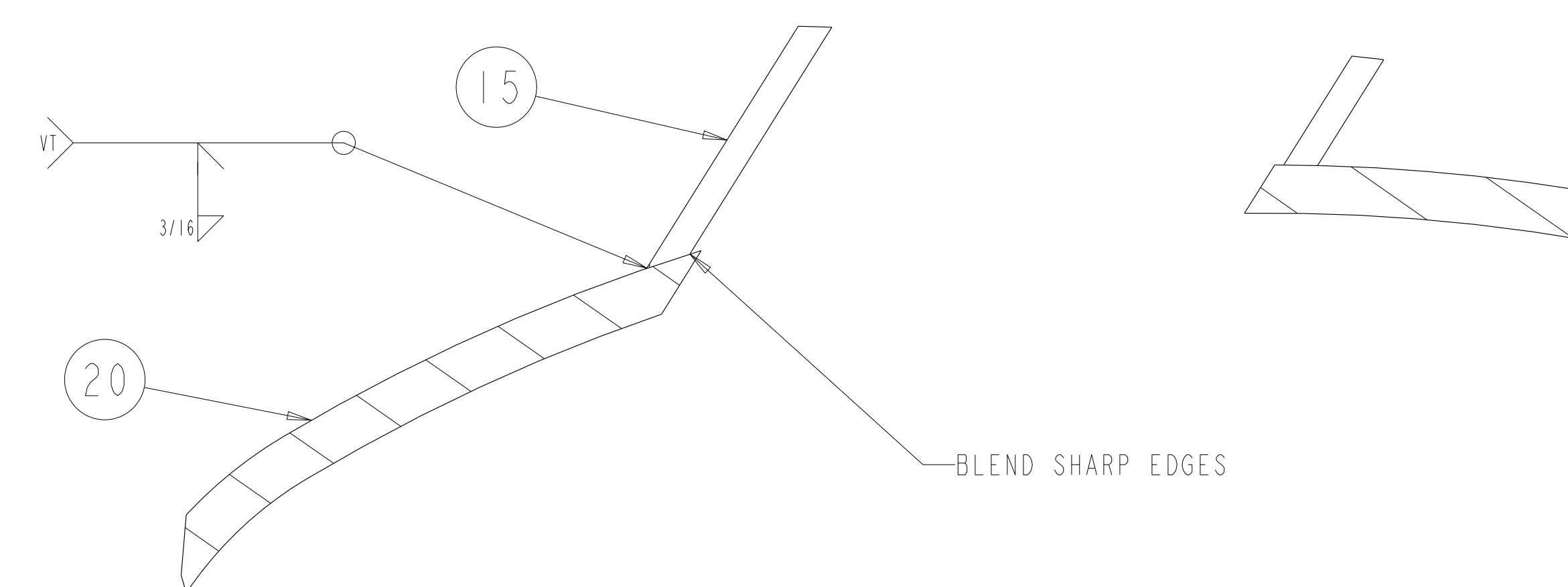
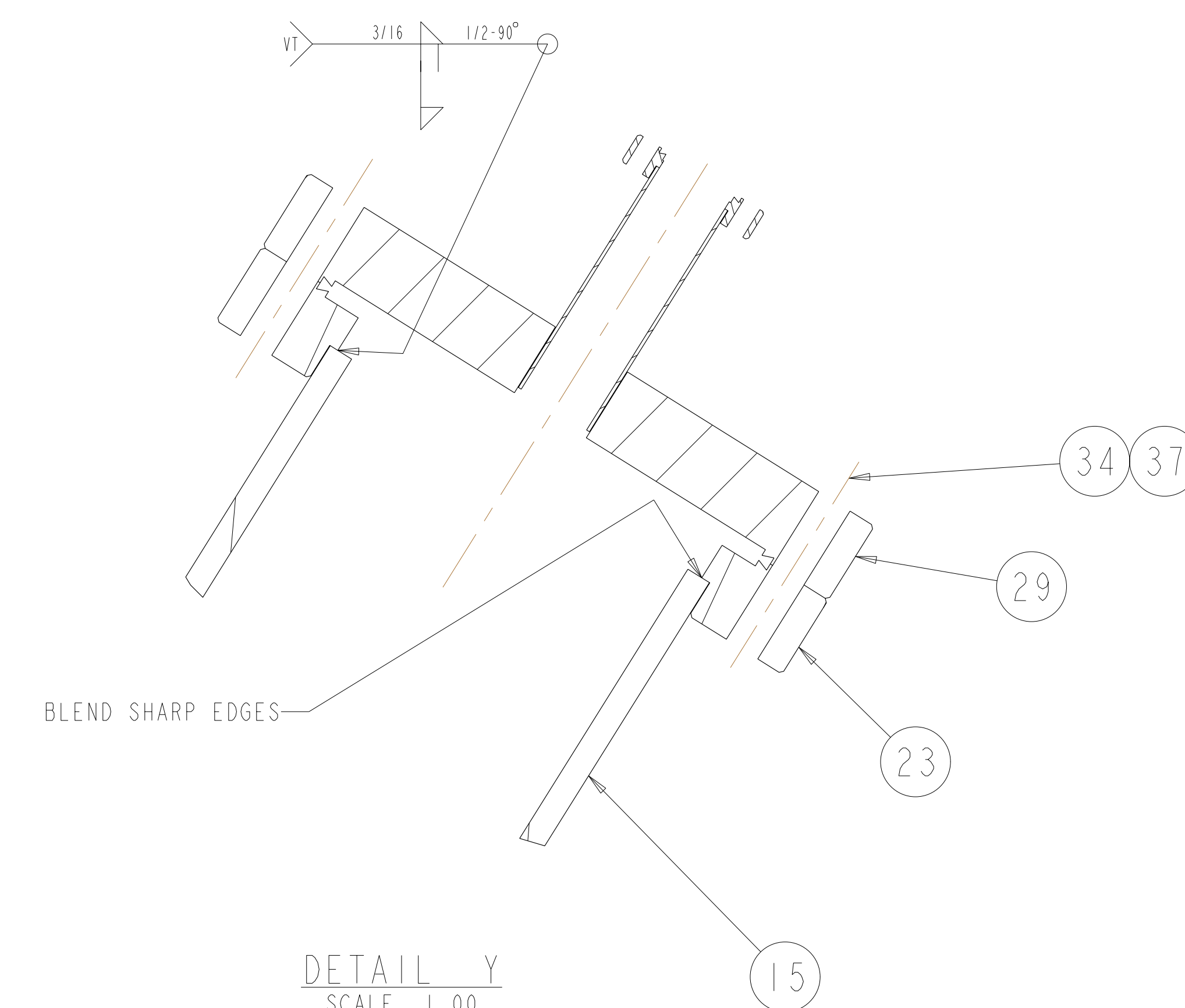
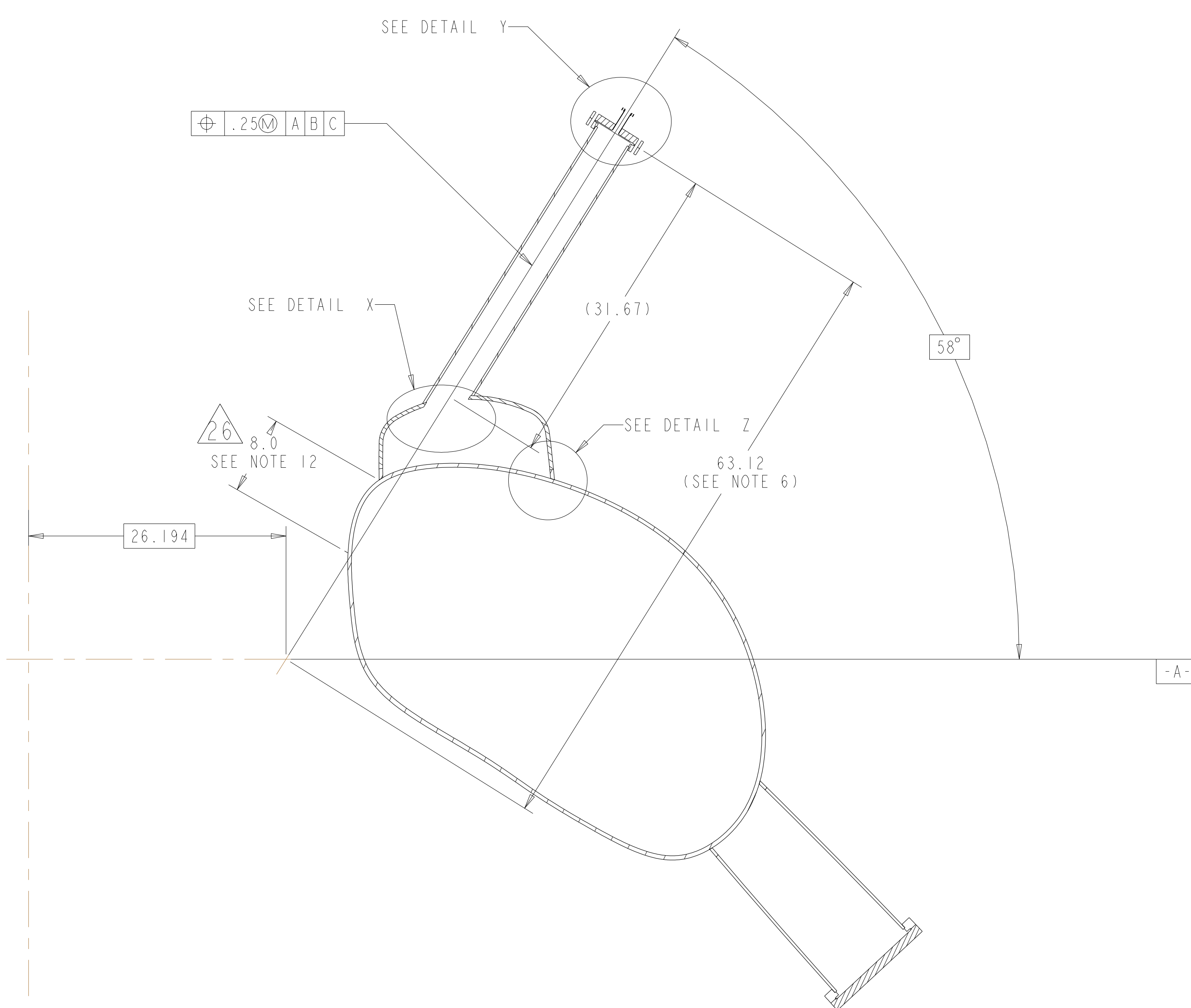
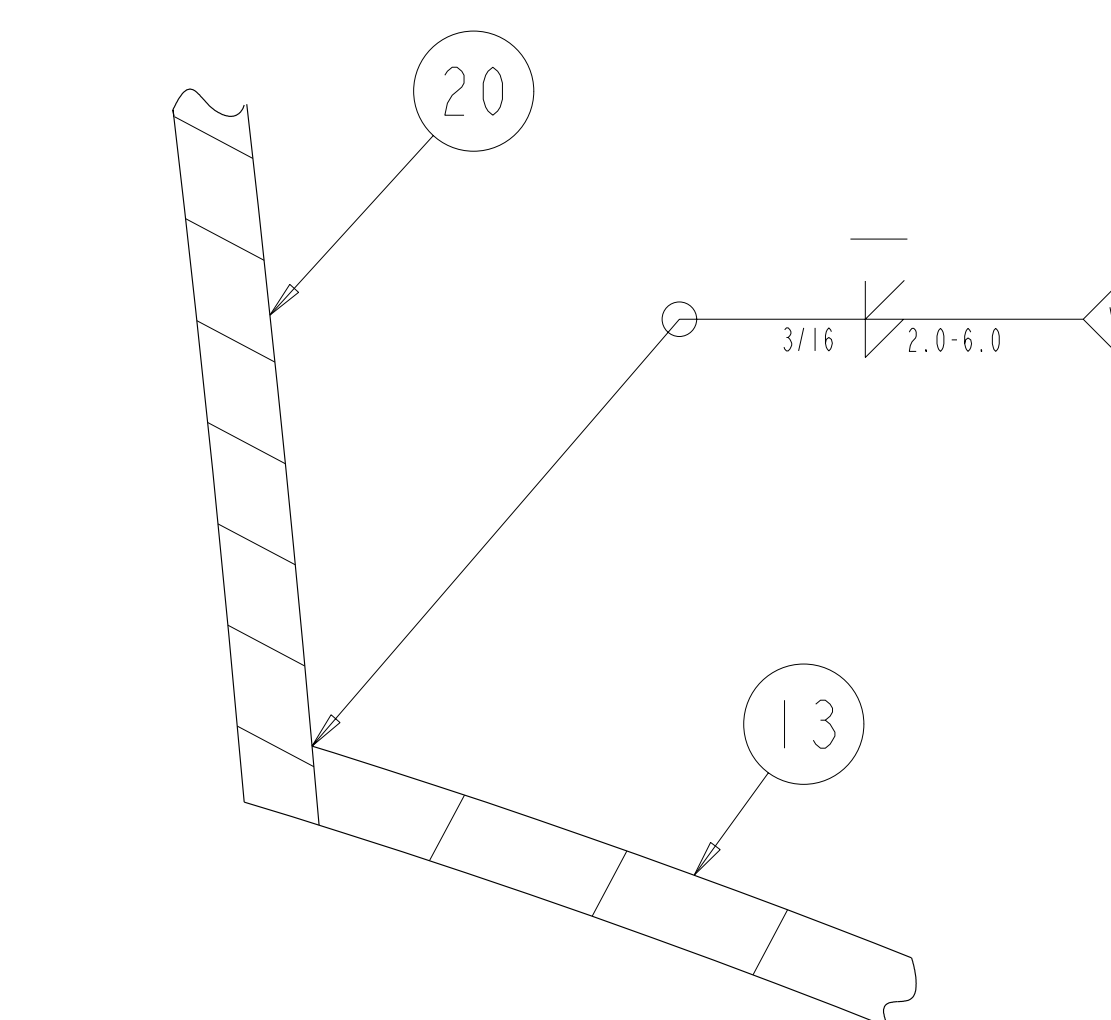
21

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 NAME		NATIONAL COMPACT STELLARATOR EXPERIMENT					
VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY							
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE	CLASS	
5	X-10	5700	3	15 19	A	U	
RELEASE LEVEL							
Fabrication	SEI20-004						
						REV	2

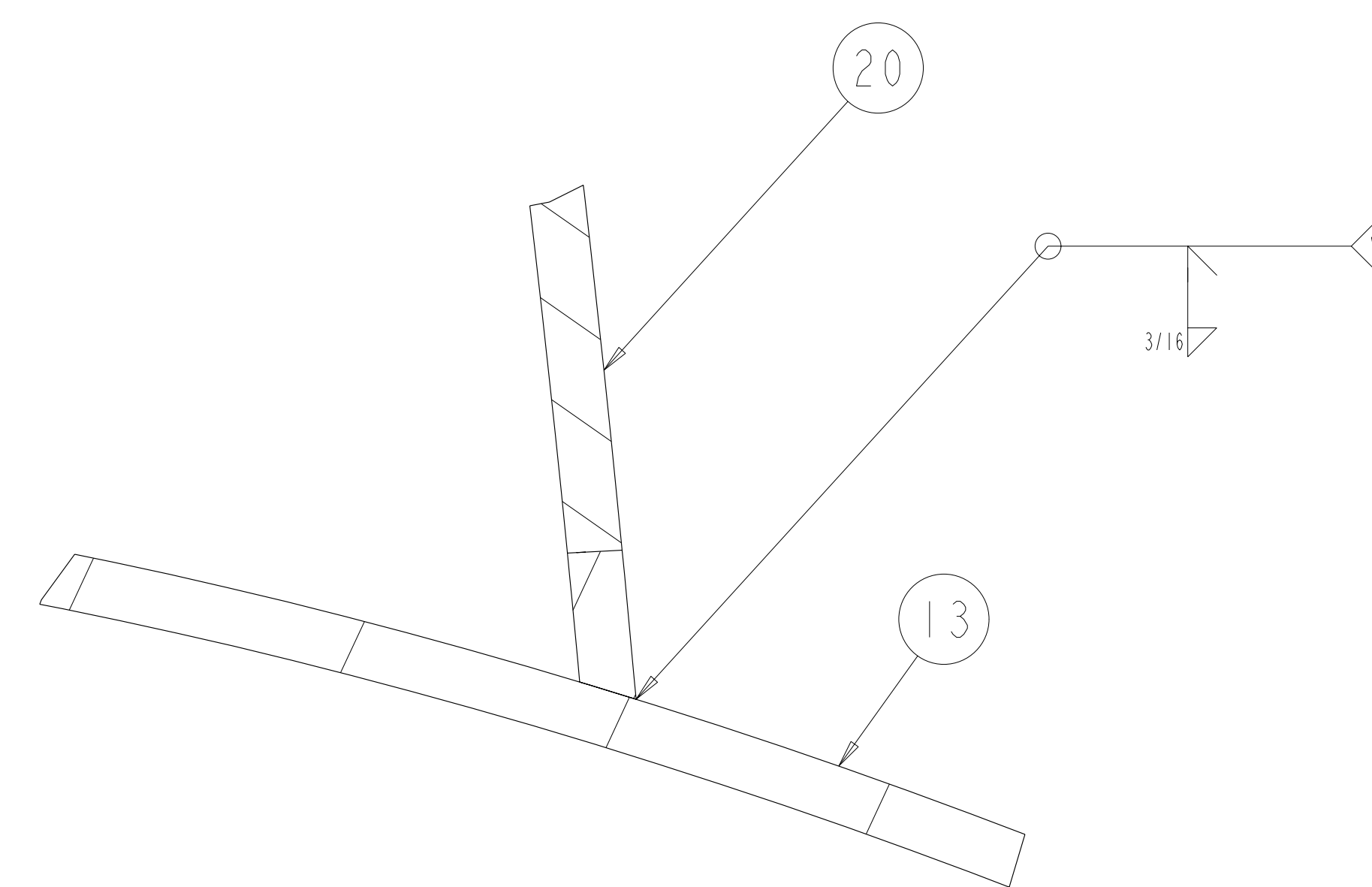
FOR PARTS LIST AND NOTES SEE SHEET 1.



TOP VIEW

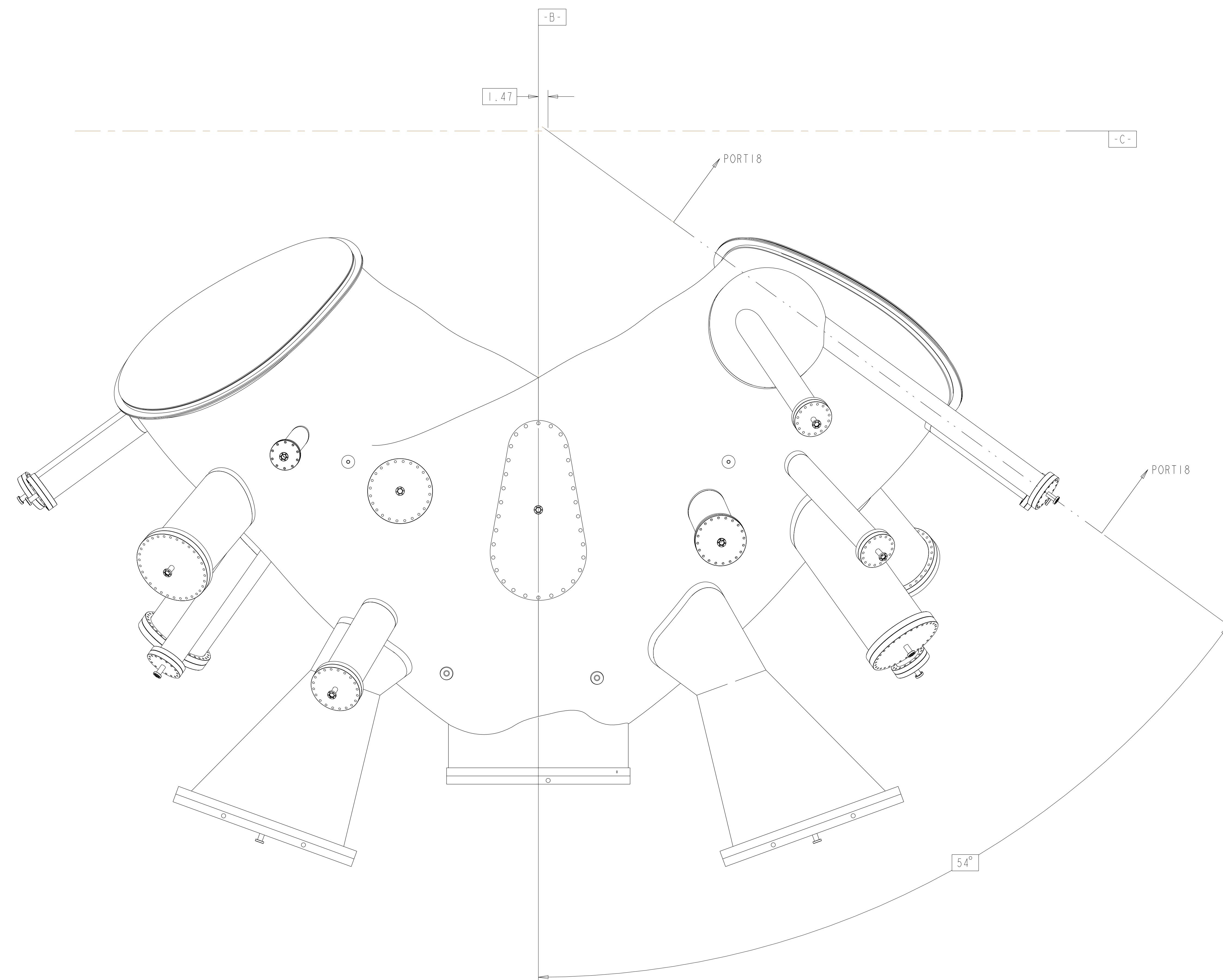
DETAIL X
SCALE 1.00TYPICAL PORT I7A AND I7B
SECTION PORT I7-PORT I7

OPTIONAL WELD DETAIL

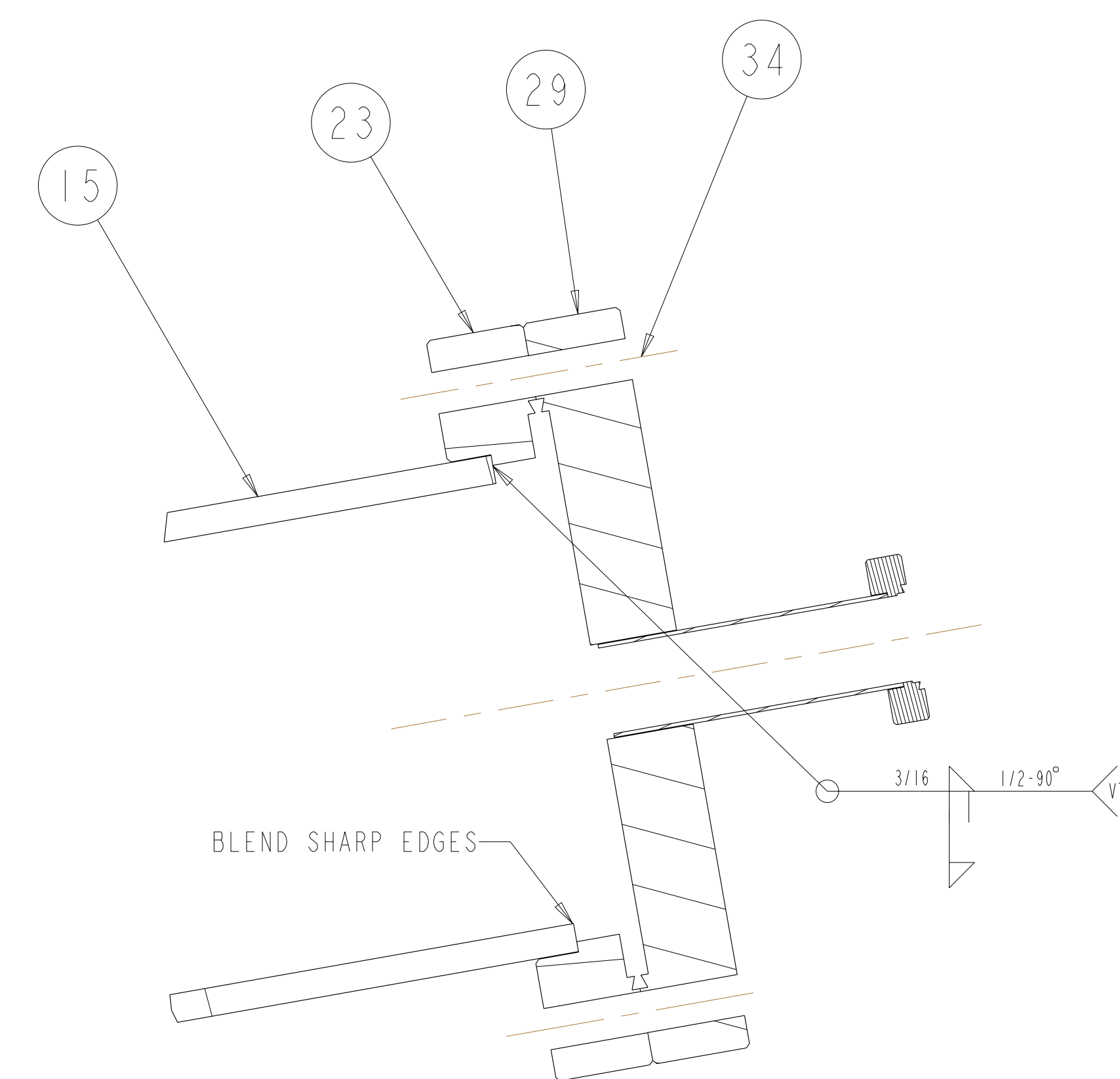
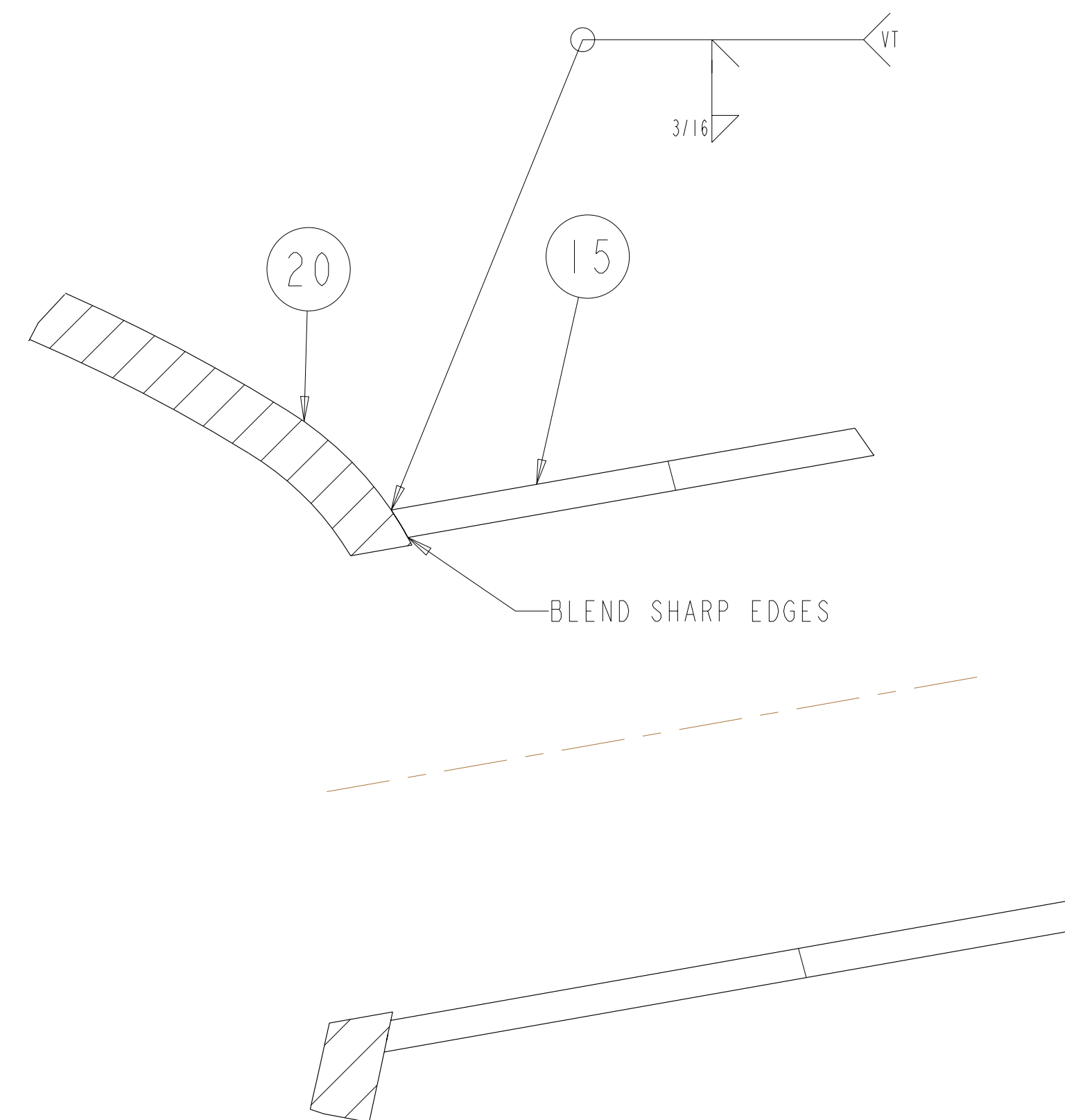
DETAIL Z
SCALE 1.00

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 NAME							
NATIONAL COMPACT STELLARATOR EXPERIMENT							
VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY							
VERSION NO. 5	PLANT X-10	BLDG 5700	FL 3	SHT OF 16 19	TYPE A	CLASS U	REV 2
RELEASE LEVEL Fabrication		SEI20-004					

FOR PARTS LIST AND NOTES SEE SHEET 1.



TOP VIEW

TYPICAL PORT 18A AND 18B
SECTION PORT18-PORT18

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 NAME							
NATIONAL COMPACT STELLARATOR EXPERIMENT							
VACUUM VESSEL PERIOD INSPECTION AND LEAK CHECK ASSEMBLY							
VERSION NO. 5	PLANT X-10	BLDG 5700	FL 3	SHT OF 17 19	TYPE A	CLASS U	
RELEASE LEVEL Fabrication		SEI20-004 REV 2					

FOR PARTS LIST AND NOTES SEE SHEET 1.

