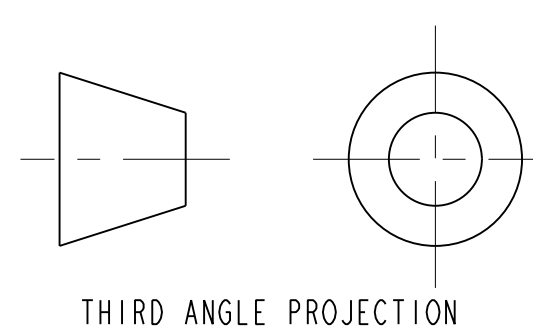


NOTES: UNLESS OTHERWISE SPECIFIED,

1. DIMENSIONS AND TOLERANCING PER ANSI Y14.5M-1982 UNITS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
2. USE OF SULFUR OR SILICONE BEARING OILS, LUBRICANTS, OR COOLANTS ARE STRICTLY PROHIBITED.
3. USE OF RESIN OR RUBBER BONDED ABRASIVES UNDER POWER IS STRICTLY PROHIBITED. USE VITREOUS BONDED ABRASIVES ONLY.
4. CLEAN AFTER MACHINING PER VENDOR SPECIFICATION; SUBJECT TO LBNL APPROVAL.
5. VENDOR SUGGESTED CHANGES TO WELD PREPS; SUBJECT TO LBNL APPROVAL.
6. PROTECT FINISHED PART BY BAGGING OR SIMILAR METHOD TO PROTECT AND MAINTAIN CLEANLINESS DURING SHIPMENT AND STORAGE.
7. VENDOR SUGGESTED CHANGES TO TOLERANCES TO FACILITATE ASSEMBLY; SUBJECT TO LBNL APPROVAL.
8. OPERATING CONDITIONS, 4.2K, 70 psig (4.4bar) TEST PRESSURE.
9. ESTIMATED WEIGHT: 768 LBS.
10. TACK WELD APPROPRIATE WELD BACKING STRIPS AROUND ENTIRE PERIMETER OF VESSEL OPENING. COVER SHOWN IN DRAWING 25M8026 WILL BE WELDED INTO OPENING DURING A LATER STEP PER DRAWING 24C3526.
11. TOOLING ITEM NOT SHOWN

1ST WELDMENT STAGE



REV	DATE	BY	CHK	ZONE	DATE	INITIAL RELEASE CHANGES
A	MJK	DPO				

UNLESS OTHERWISE SPECIFIED
 X.X ± 0.1 FRACTION ± 1/64
 X.XX ± 0.03 ANGLES ± 1.0°
 X.XXX ± 0.010 FINISH
 DO NOT SCALE PRINT
 TOLERANCES ARE CLASS 2
 CHAMFER ENDS OF ALL SCREW THREADS 30°
 BREAK EDGES .010 MAX. ON MACHINED PARTS
 REMOVE BURRS, WELD SPATTER & LOOSE SCALE
 IN ACCORDANCE WITH ASME B16.5 & B31.1

ITEM	PART NO	QTY	DESCRIPTION	MATERIAL
31	251900	2	TANK SUPPORT BRACKET	SS 304L
30	25M813	2	CLAMP COVER 1"	OFHC, C101
29	251667	1	PUSH BLOCK	ALUM 6061
28	-	8	SCH. MSK 8, 1/2LG, SILVER PLATED	SS 18-8
27	-	8	LOCK WASHER, MS	SS
26	251110	10	LIQUID HELIUM TANK, WELDMENT RING	304L SS
25	251105	1	LIQUID HELIUM TANK, UPPER SHELL	304L SS
24	251115	2	LIQUID HELIUM TANK, END PLATE (1 PORT)	304L SS
23	251909	1	LIQUID HELIUM PORT STUB	304L SS
22	251908	1	CHECK VALVE STUB	304L SS
21	251907	1	RELIEF PORT PIPE STUB	304L SS
20	251899	2	PIPING SUPPORT PAD	SS 304L
19	251687	1	CABLE LOOM BASE-B ASSEMBLY	-
18	251457	2	HTS SOLDER JOINT ASSEMBLY-8A	-
17	251688	2	CABLE LOOM BASE ASSEMBLY	-
16	251685	2	HTS SOLDER JOINT ASSEMBLY-10	-
15	251669	2	HTS SOLDER JOINT ASSEMBLY-8	-
14	251689	3	CABLE LOOM BASE-A ASSEMBLY	-
13	251665	12	SOLDER BOX GUSSET	SS
12	25M900	2	CLAMP BASE PLATE	CDA 101
11	25M860	4	TANK SUPPORT BOSS	304L SS
10	251109	4	LIQUID HELIUM TANK, HALF RIB, LOWER	304L SS
9	251108	4	LIQUID HELIUM TANK, UPPER HALF RIB	SS 304L
8	251107	5	LIQUID HELIUM TANK, FULL RIB	SS 304L
7	-	2	COPPER BRAID, 1" X 1/8"	SS 304L
6	251104	1	LIQUID HELIUM TANK, PORT FRAME	SS 304L
5	251103	1	LIQUID HELIUM TANK, HORIZONTAL LOWER RIB	SS 304L
4	251102	1	LIQUID HELIUM TANK, HORIZONTAL UPPER RIB	SS 304L
2	251898	4	LIFTING PAD	SS 304L
1	251106	1	LIQUID HELIUM TANK, LOWER SHELL	304L SS

ERNEST ORLANDO LAWRENCE
 BERKELEY NATIONAL LABORATORY
 UNIVERSITY OF CALIFORNIA BERKELEY

LHC IR FEEDBOX
 CRYOGENICS

LIQUID HELIUM TANK - 10 PORT RIGHT

SCALE: 1/4

SHEET 1 OF 4

REV: 4

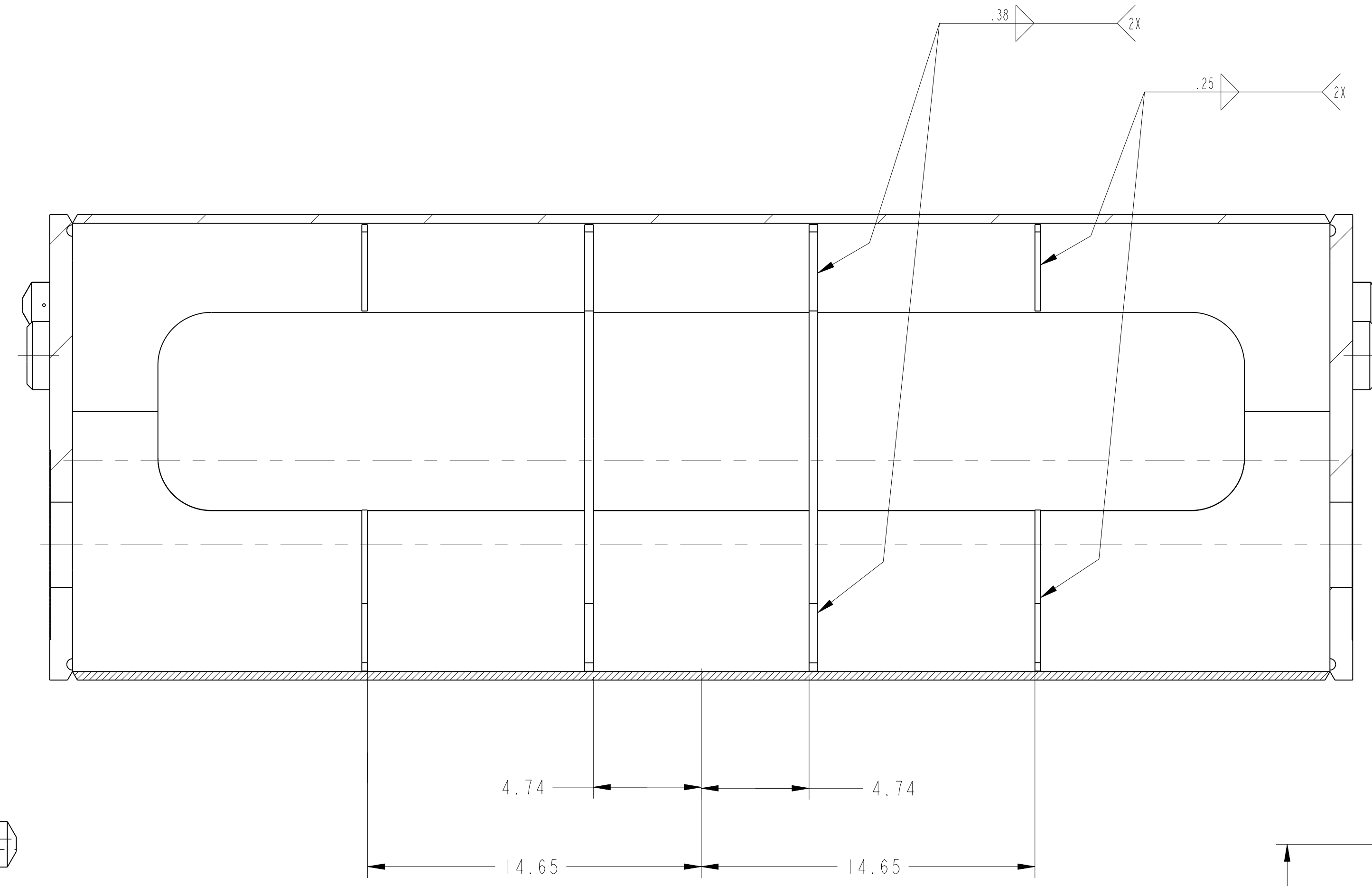
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DATE: 04-APR-02

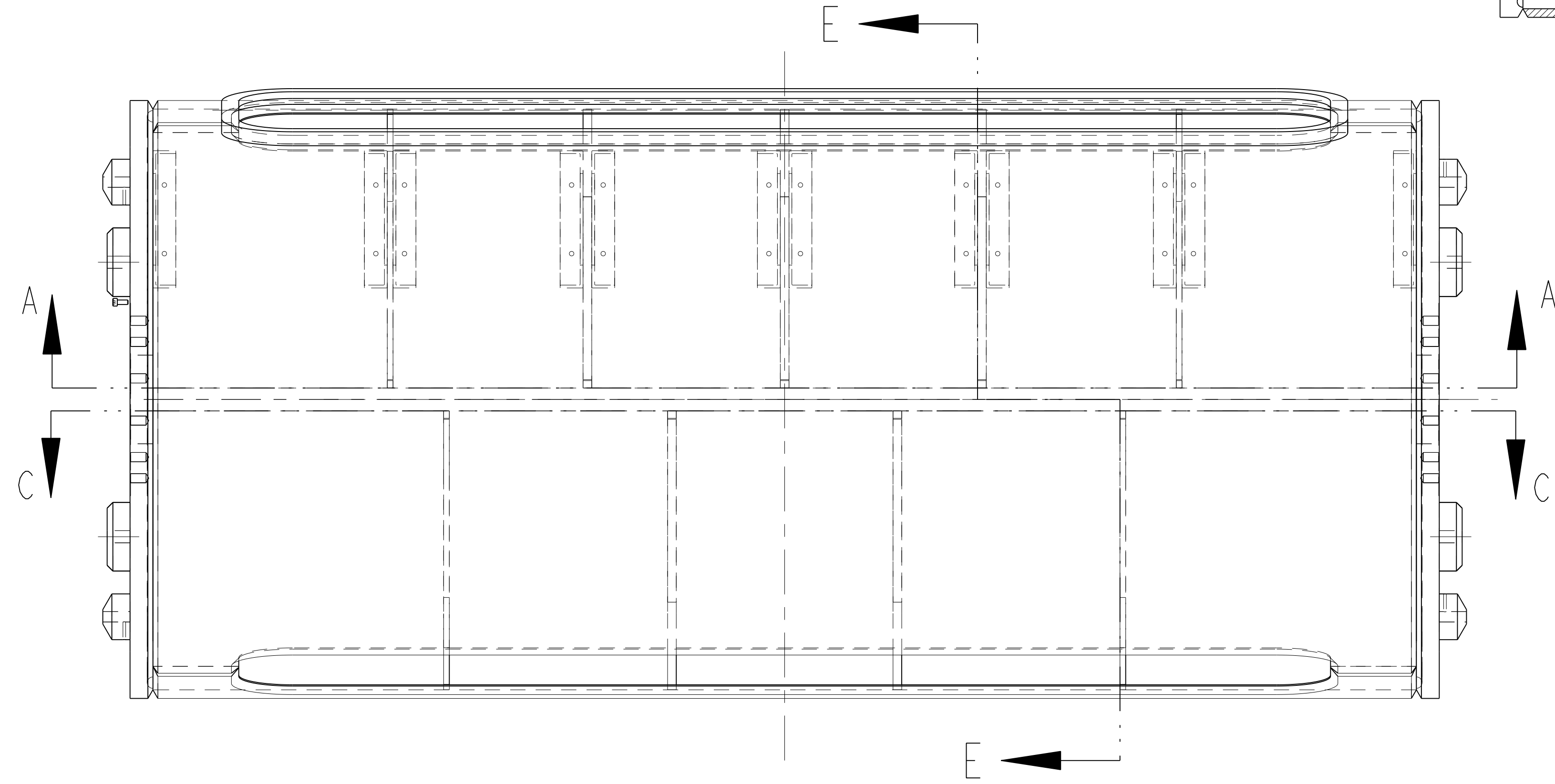
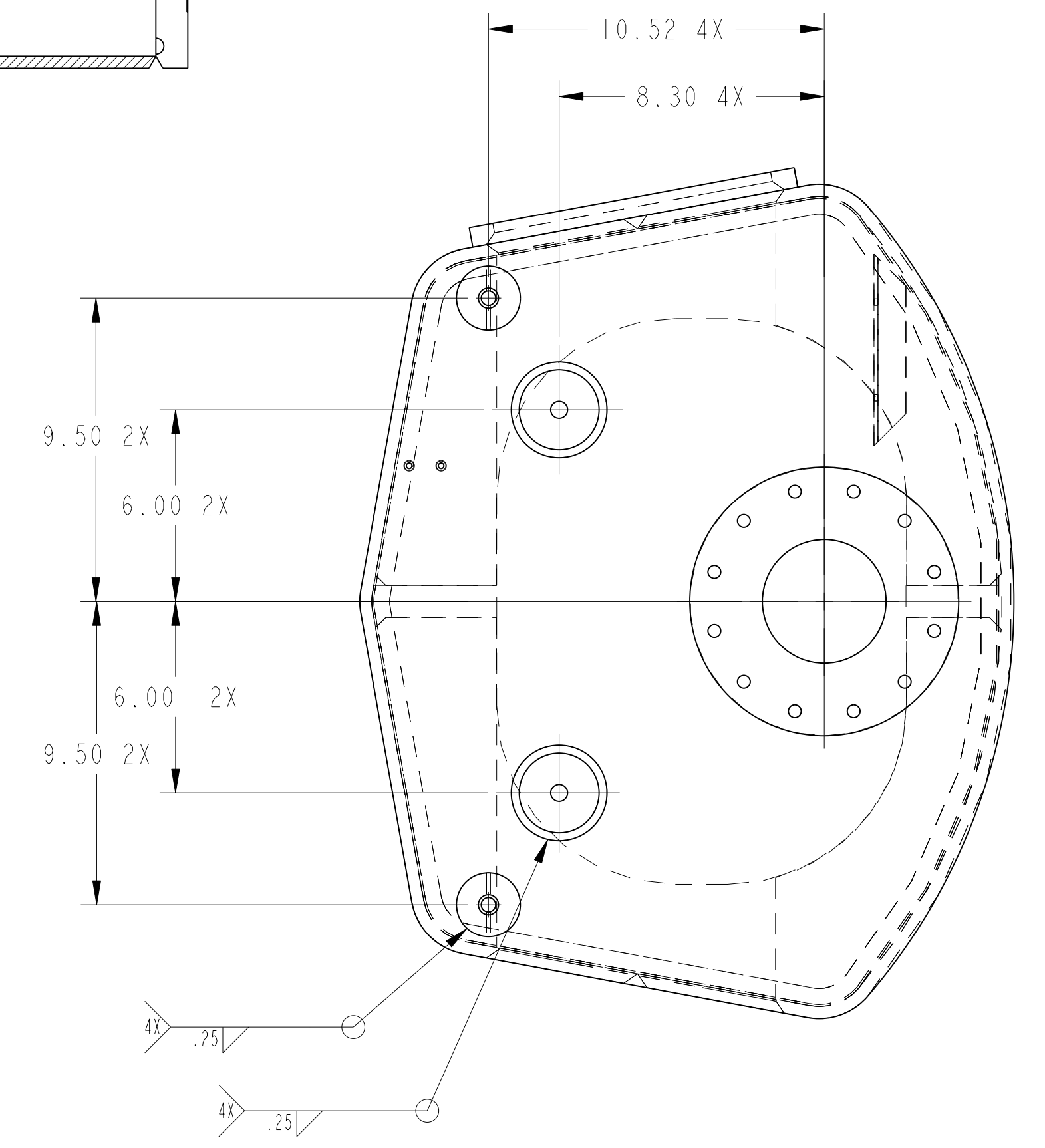
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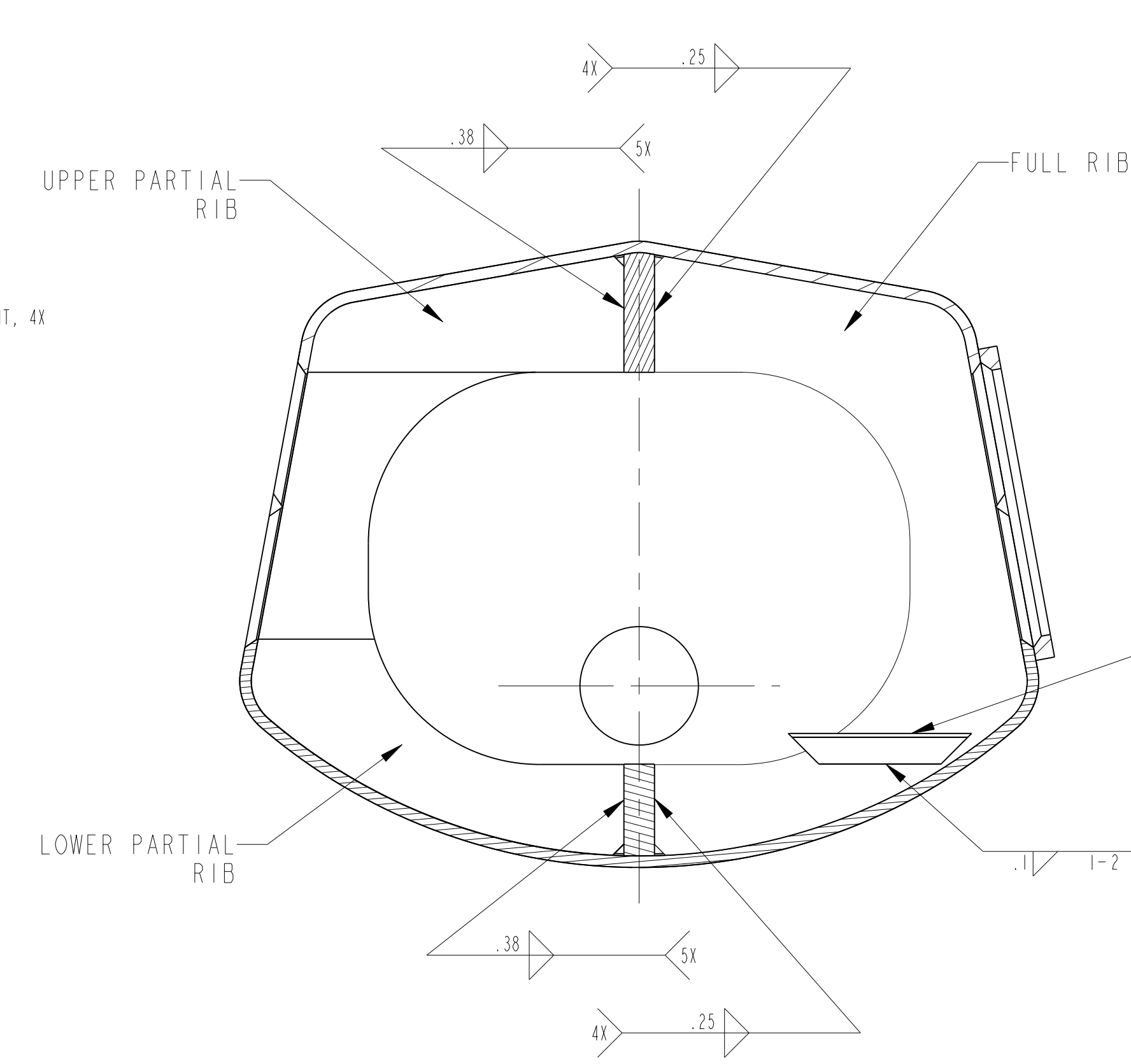
1ST WELDMENT STAGE



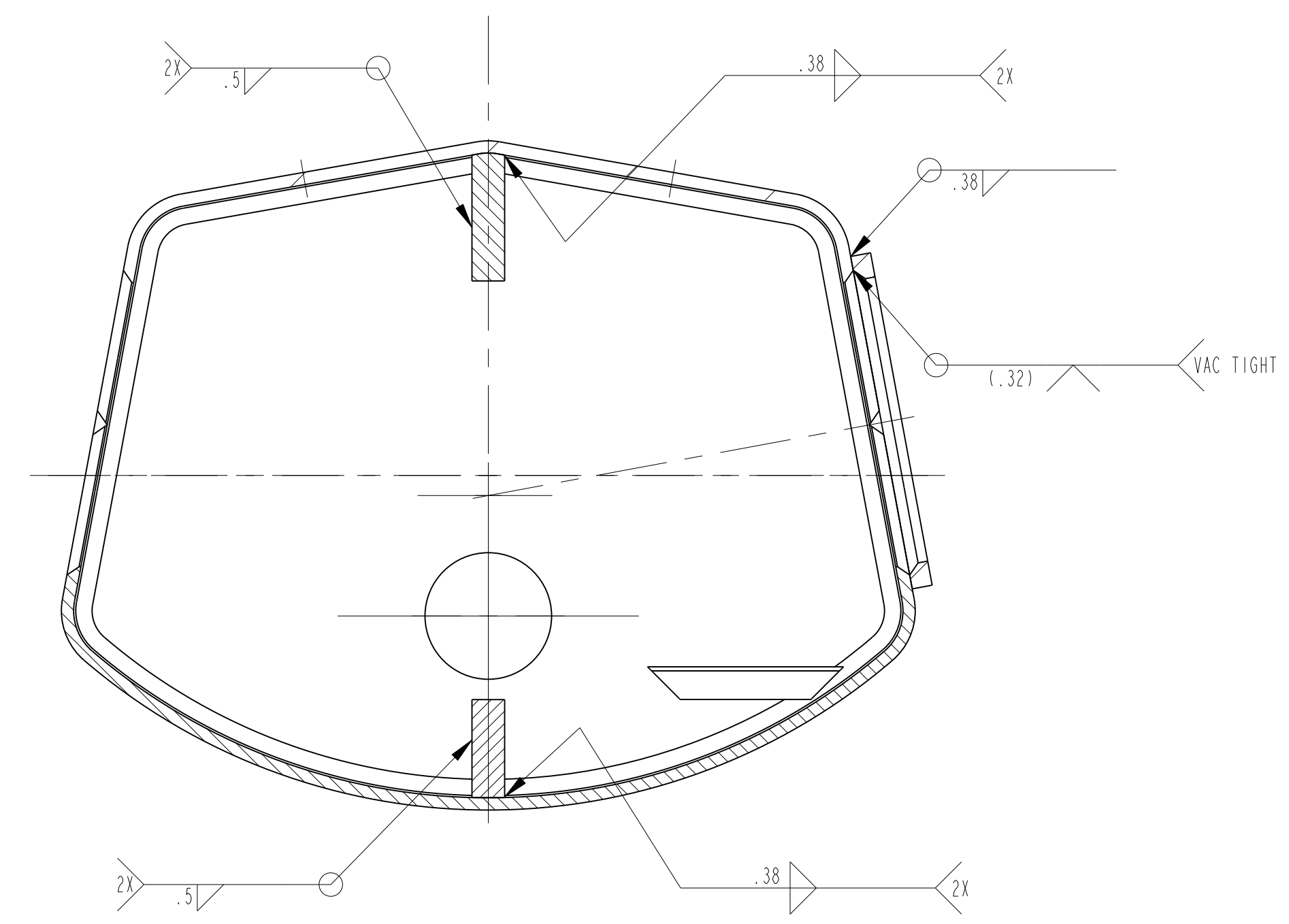
SECTION C-C
SCALE 1/4
VIEW ROTATED 180°



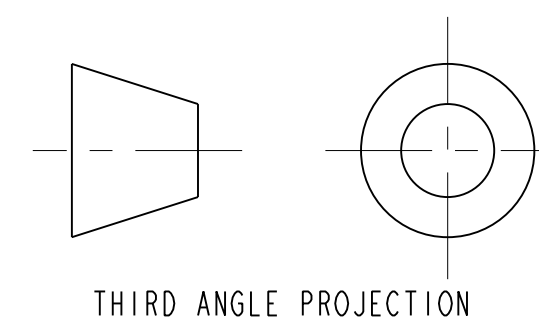
SECTION A-A



SECTION E-E



SECTION B-B



THIRD ANGLE PROJECTION

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA BERKELEY			
LHC IR FEEDBOX CRYOGENICS			
LIQUID HELIUM TANK - 10 PORT RIGHT			
MICROFILMED:	DRG. TYPE	SCALE	1/4
ASSEM	SHOWN ON	SHEET 2 OF 4	
PATENT CLEAR:	DESIGN ACCT. NO.	CATEGORY CODE	REV.
Z5LCE2	LH2003	2515736	A

2515736 A 2

NAME: ARHARRIS OBJECT: 251573.2 DATE: 04-Dec-02 10:19:42

8

7

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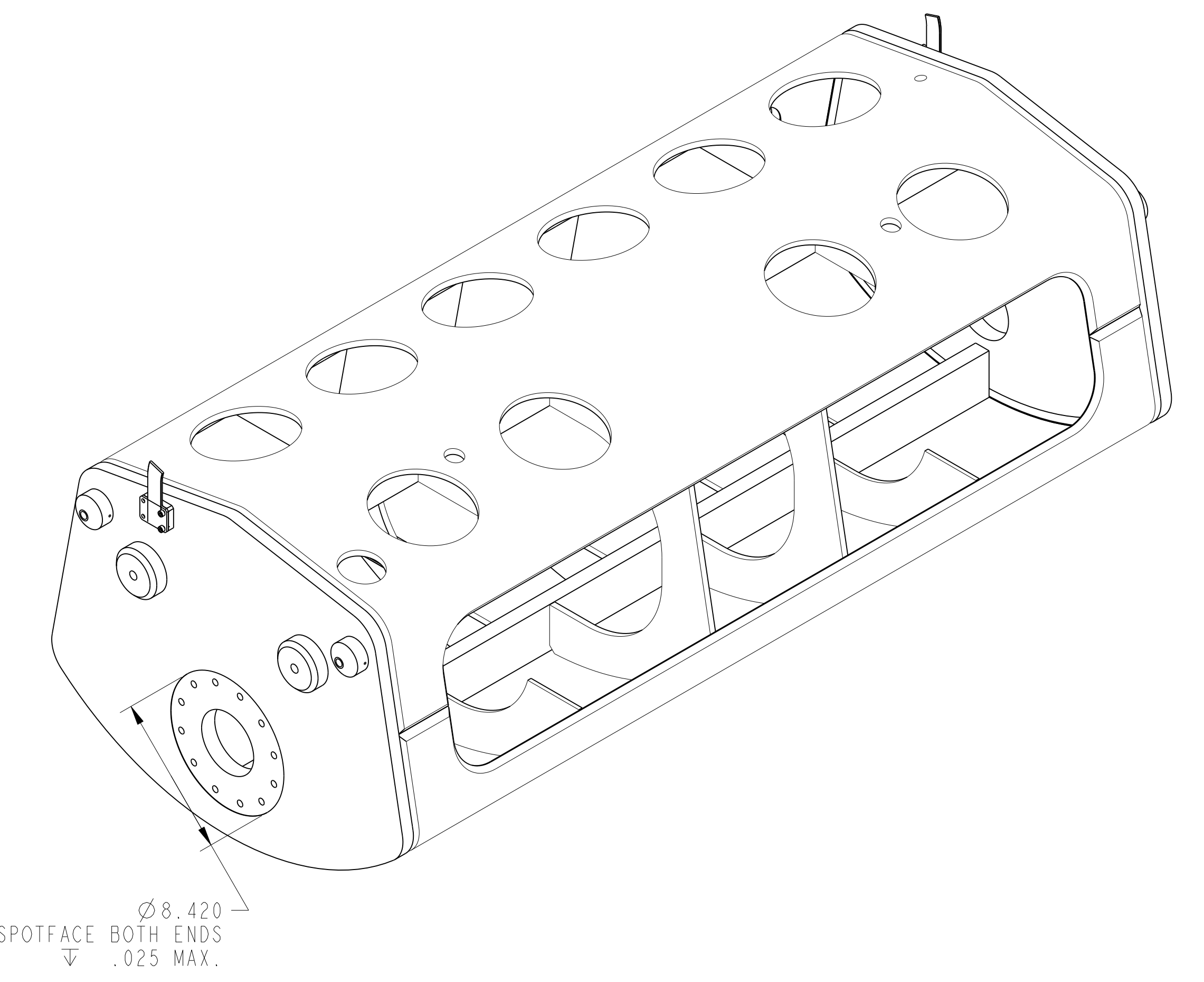
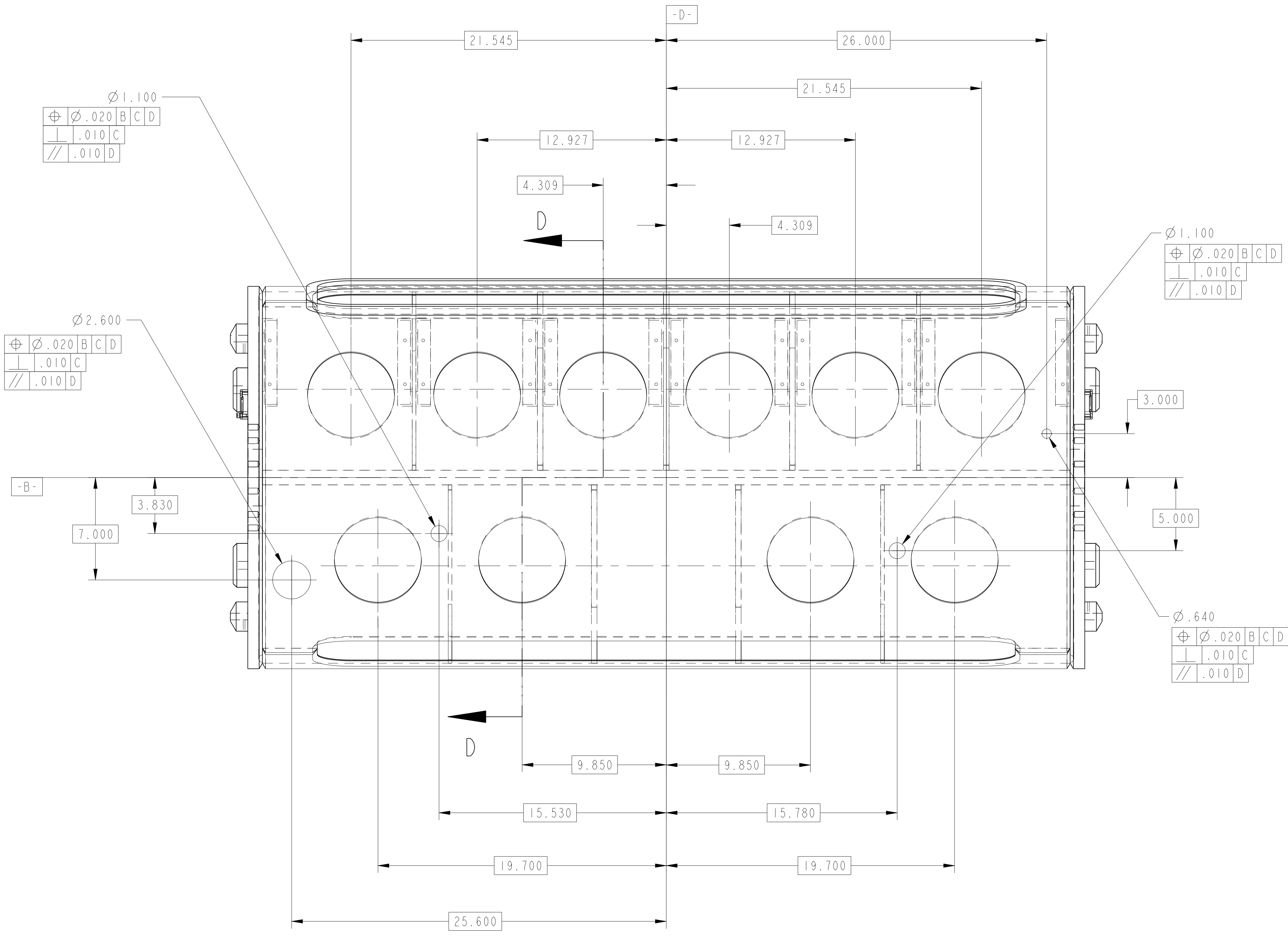
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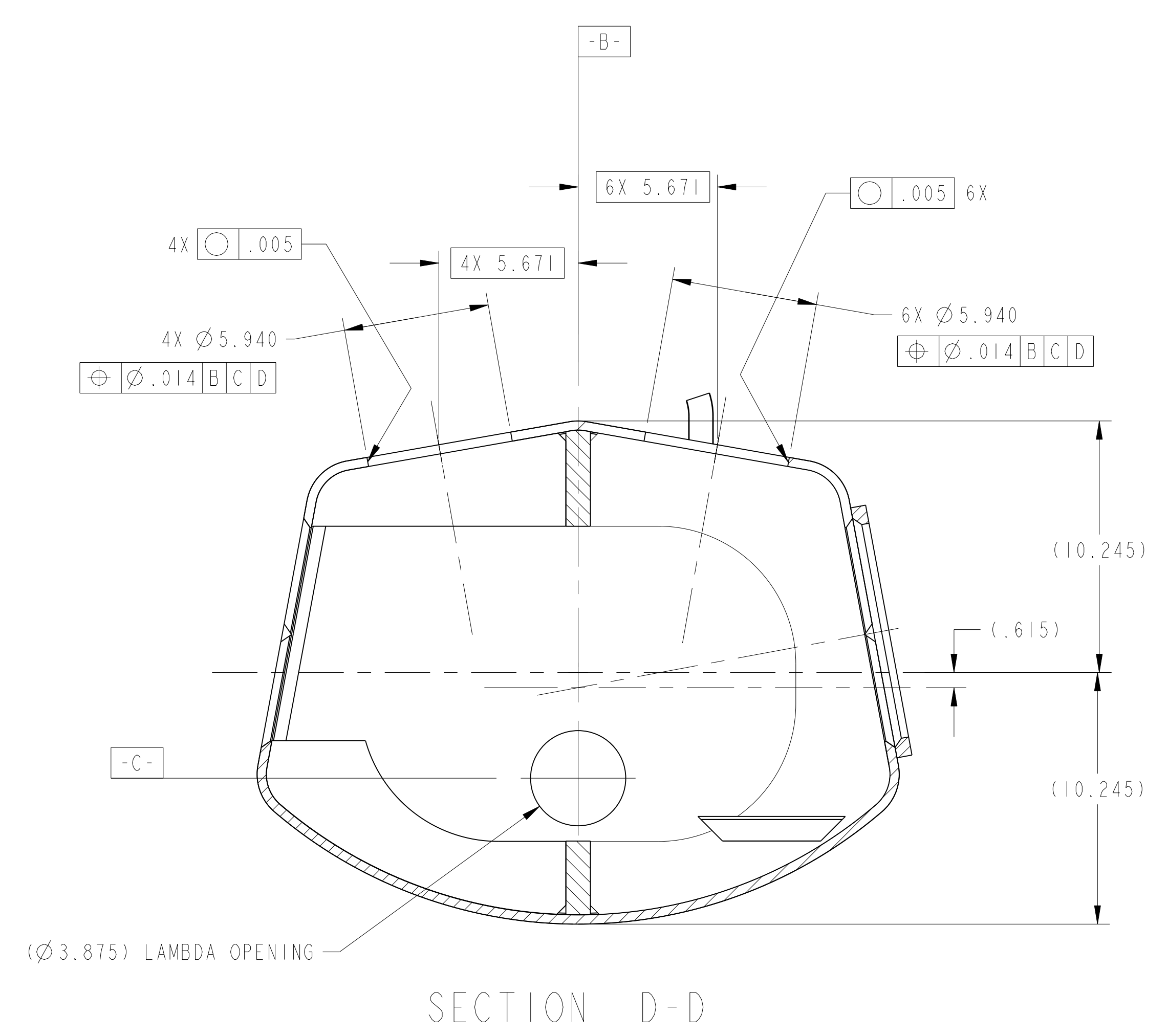
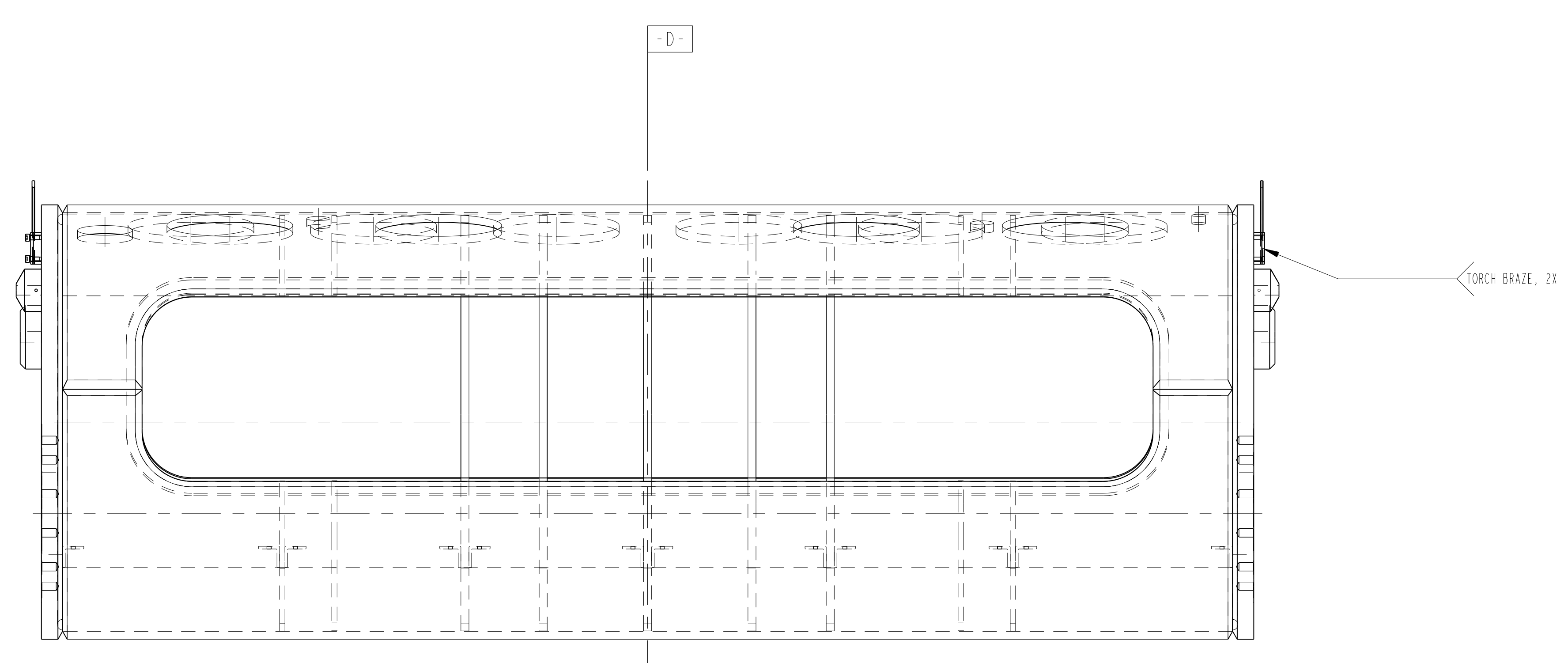
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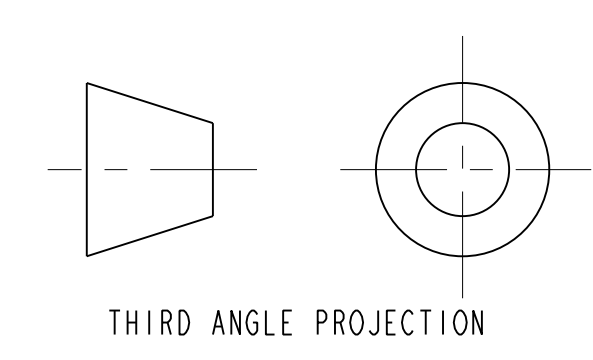
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MACHINED STAGE



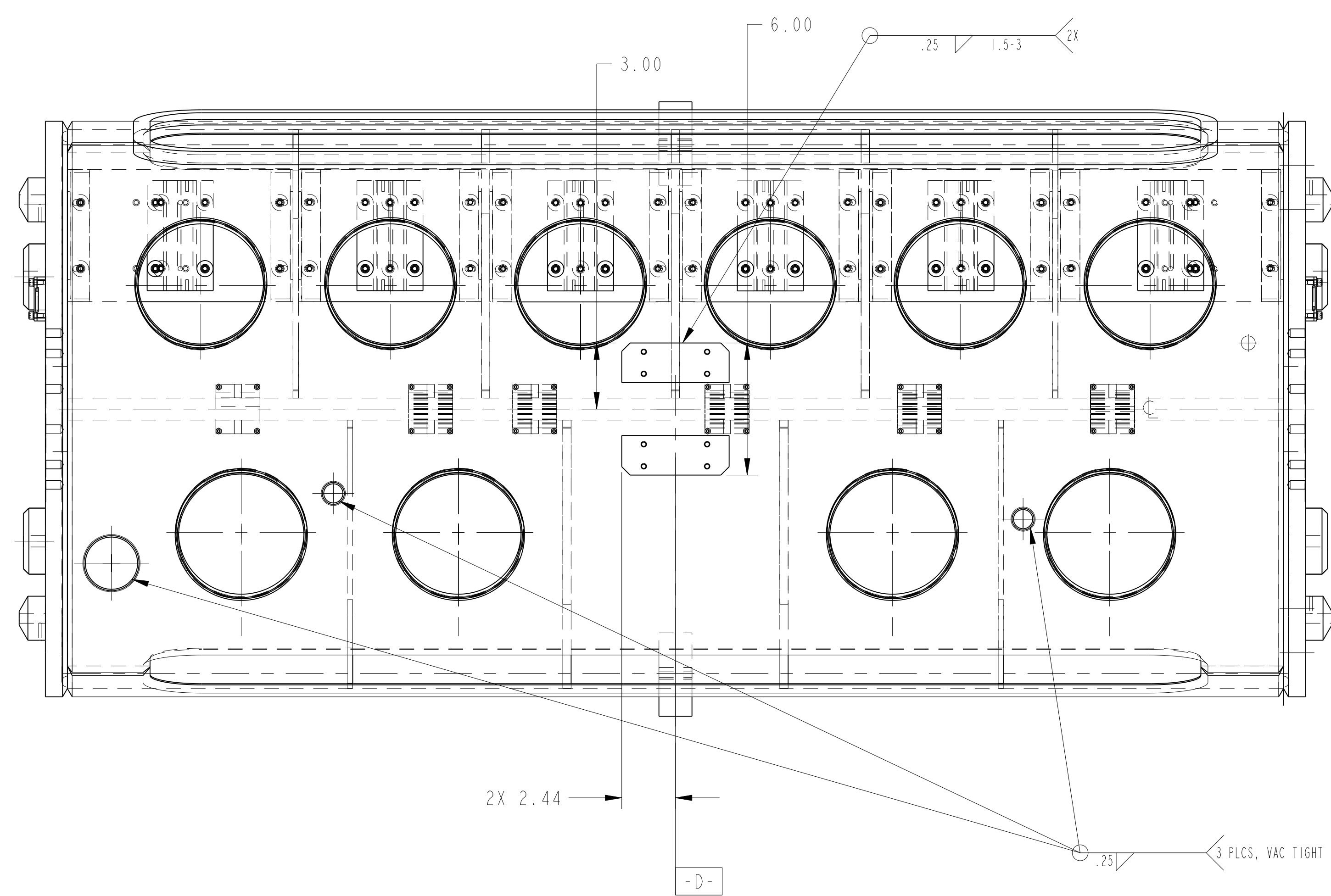
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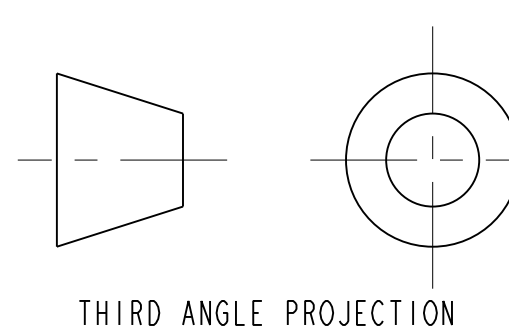
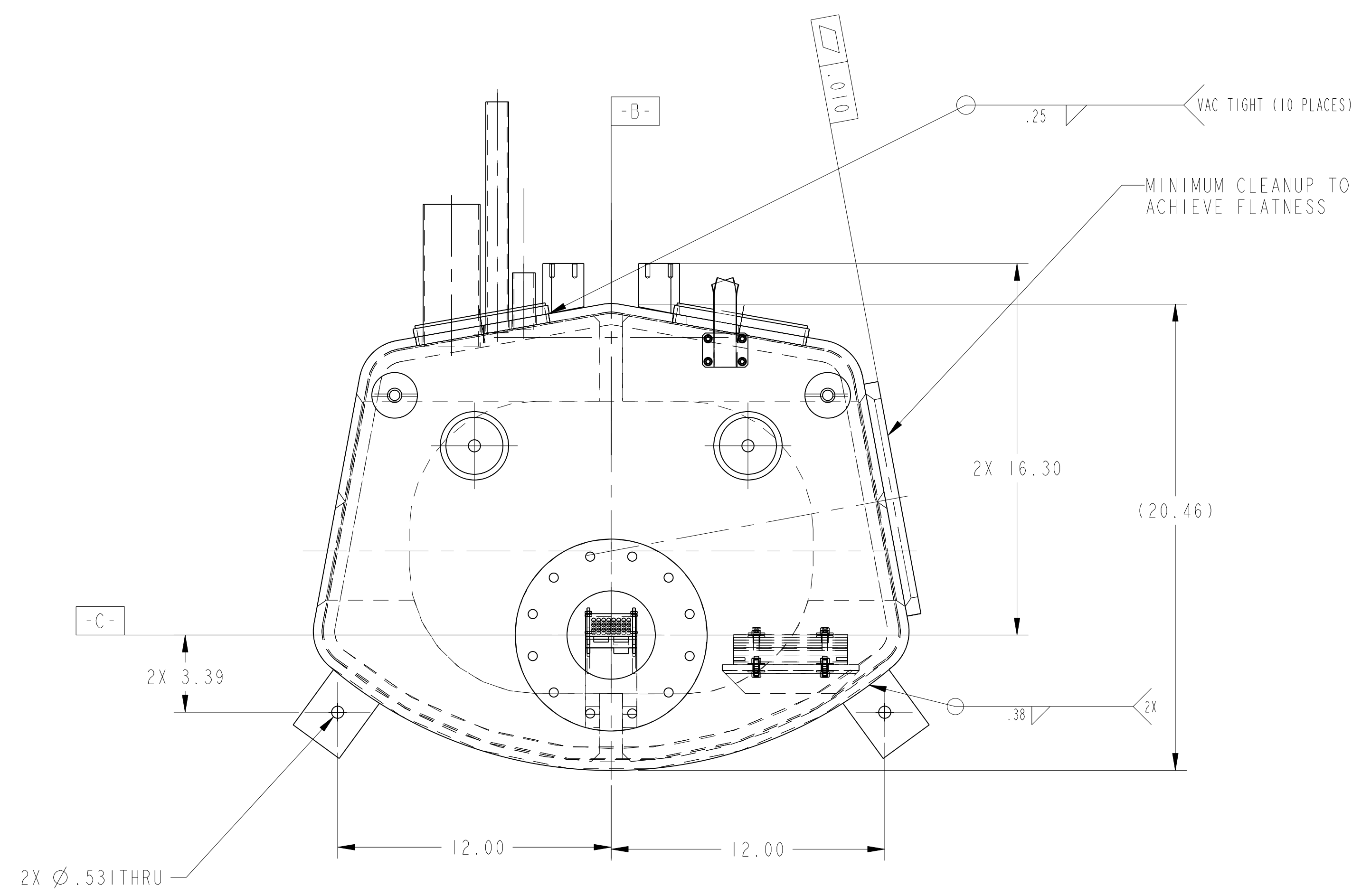
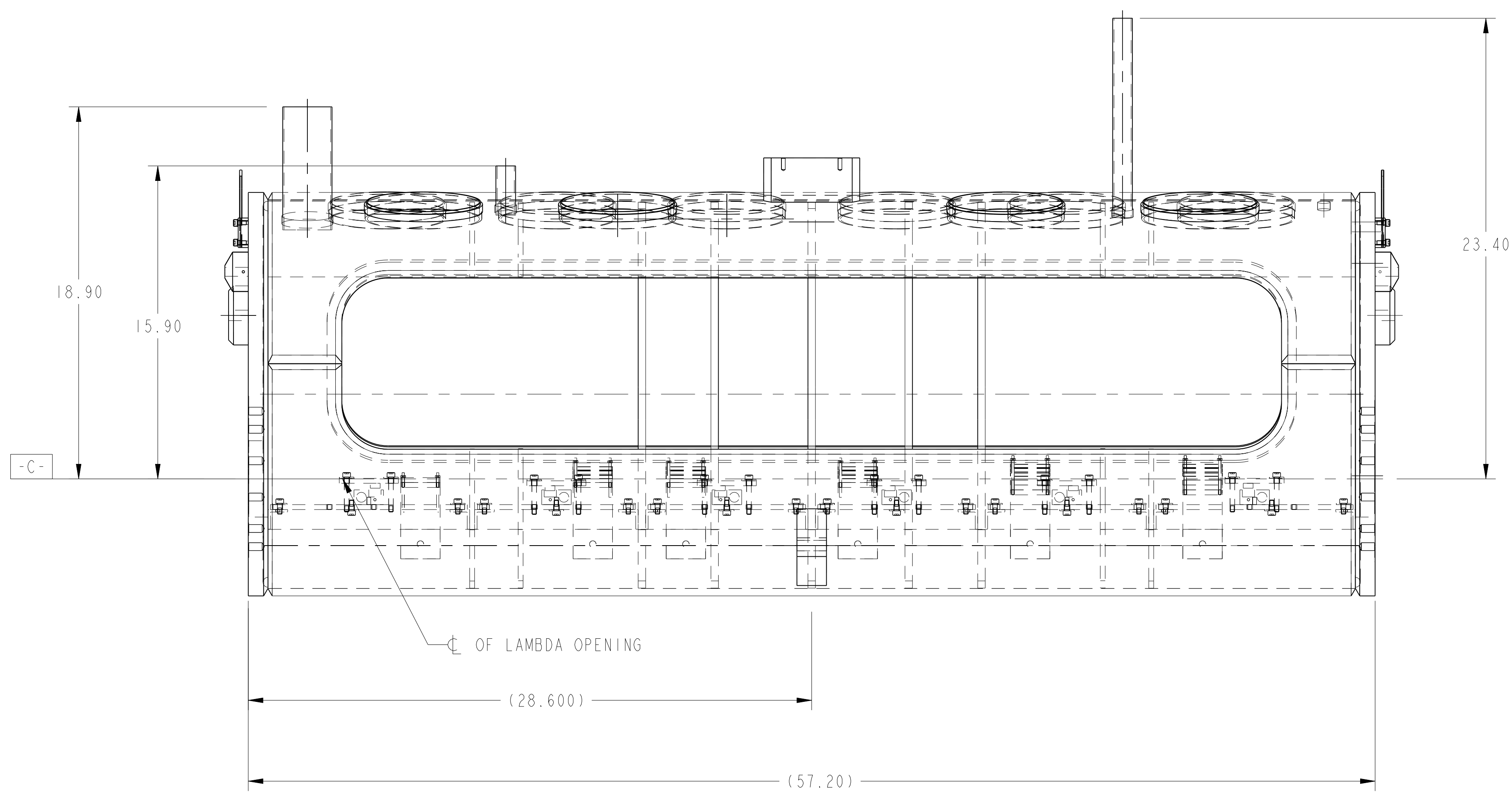
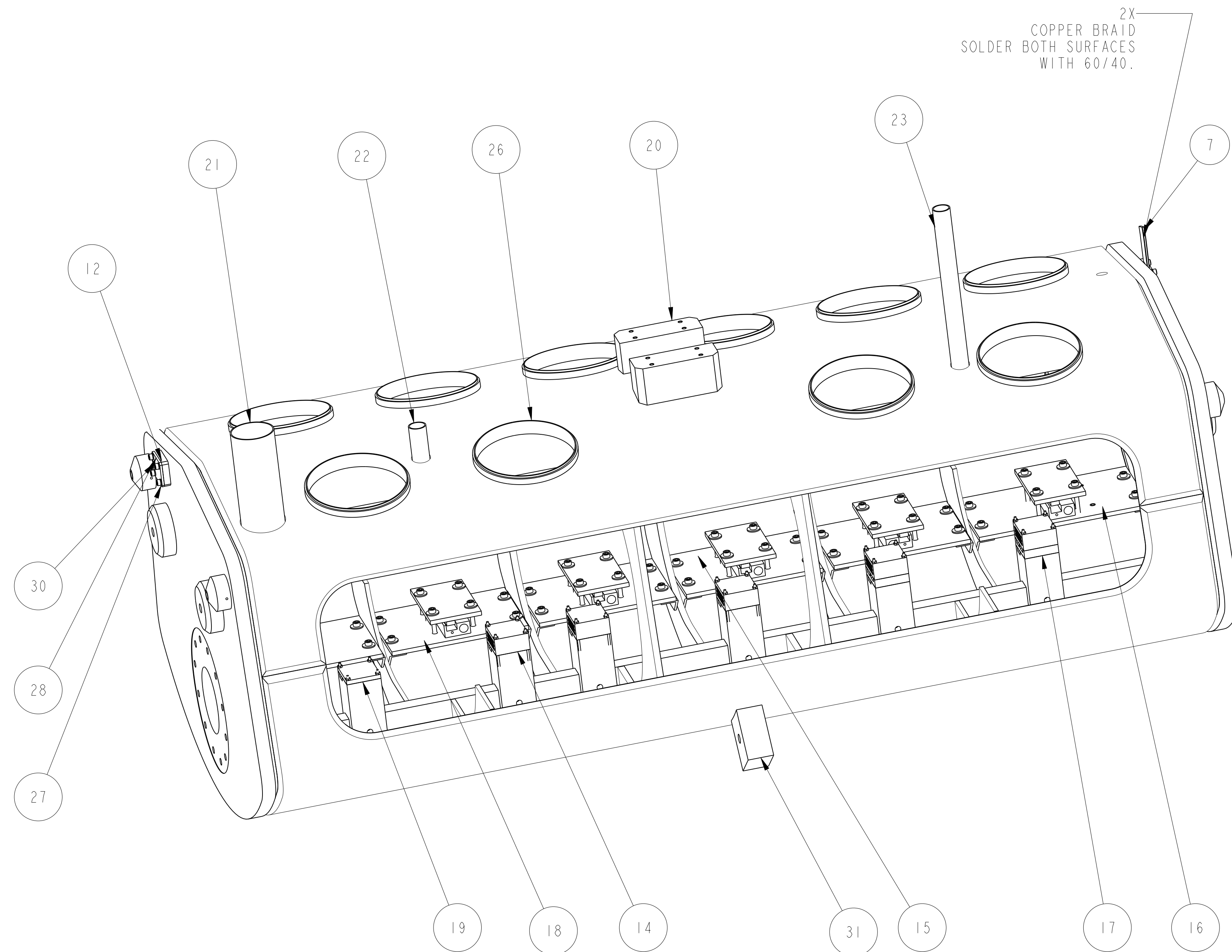
ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA BERKELEY			
LHC IR FEEDBOX CRYOGENICS			
LIQUID HELIUM TANK - 10 PORT RIGHT			
MICROFILMED:	ENG. TYPE:	SCALE:	DO NOT
ASSEM	ASSEM	1/4	LOCK PRINTS
PATENT CLEAR:	REVISION NO.:	REV. NO.:	SIZE:
Z5LCE2	LH2003	2515736	A

NAME: ARHARRIS OBJECT: 2515736 DATE: 04-Dec-02 10:19:44

2515736 A 3



FINAL WELDMENT & ASSEMBLY STAGE



ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY <small>UNIVERSITY OF CALIFORNIA BERKELEY</small>			
LHC IR FEEDBOX CRYOGENICS LIQUID HELIUM TANK - 10 PORT RIGHT			
<small>MICROFILMED:</small> ASSEM	<small>DESIGN ACCT. NO:</small> Z5LCE2	<small>REV. NO.:</small> LH2003	<small>SCALE:</small> 1/4 <small>SHEET 4 OF 4</small> 2515736 A
<small>PATENT CLEAR:</small>	<small>DESIGN ACCT. NO:</small>	<small>REV. NO.:</small>	<small>SCALE:</small>