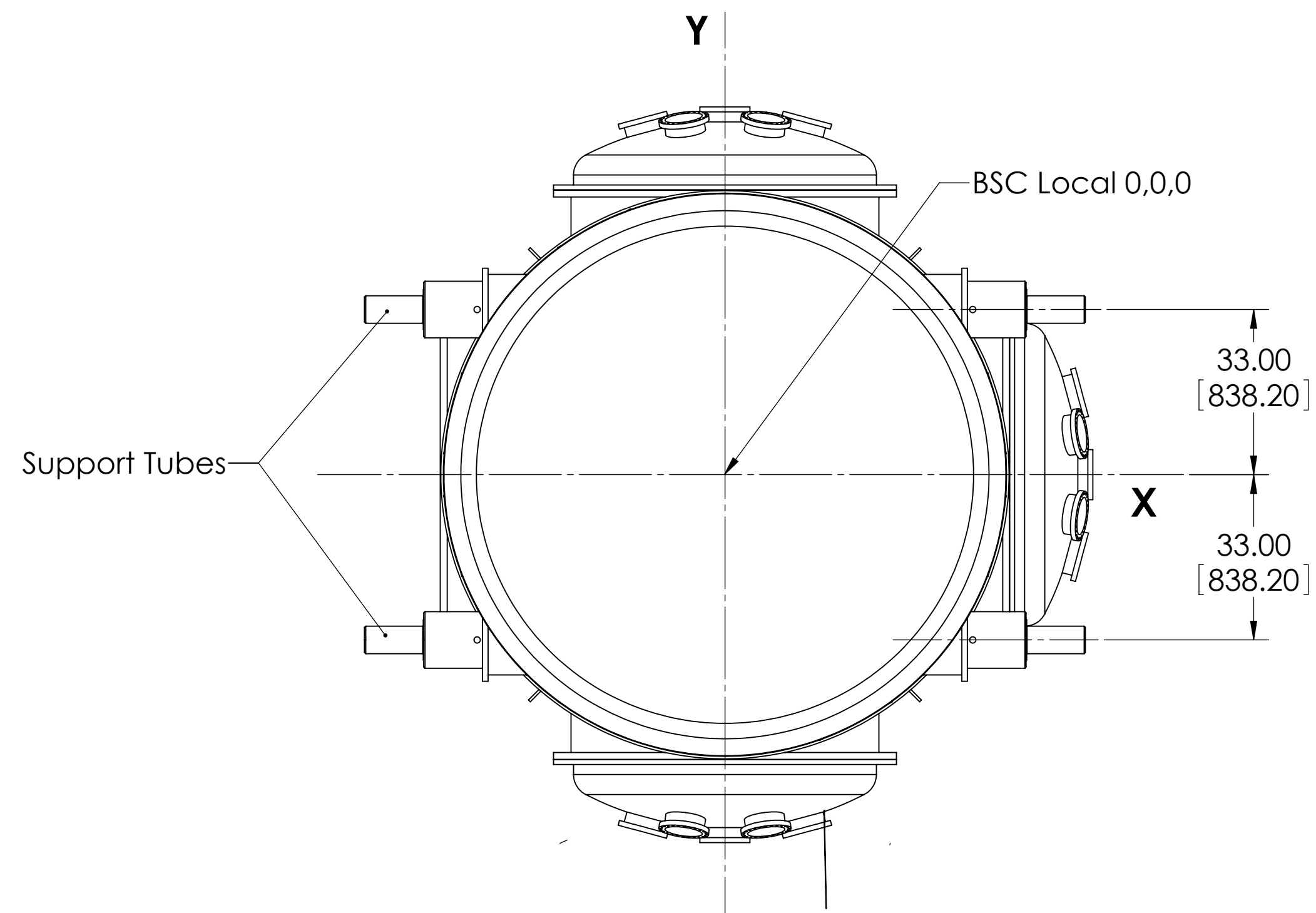
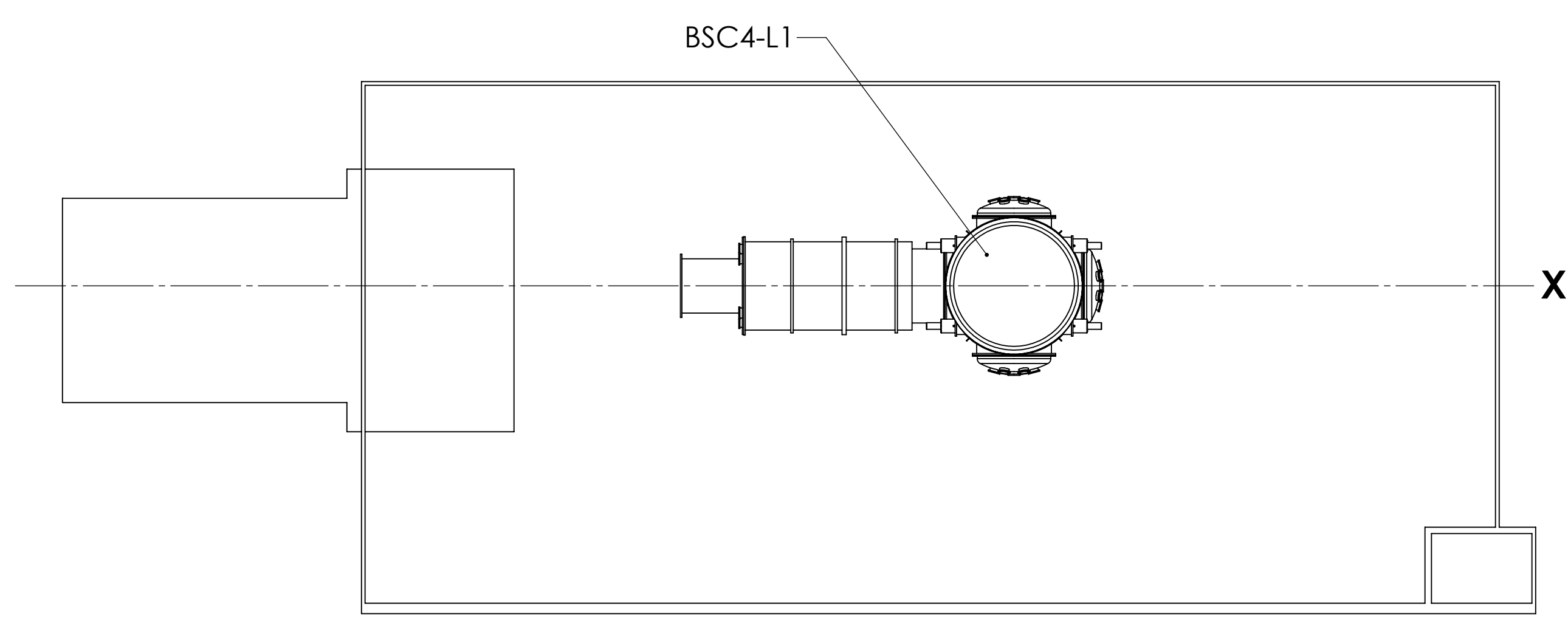


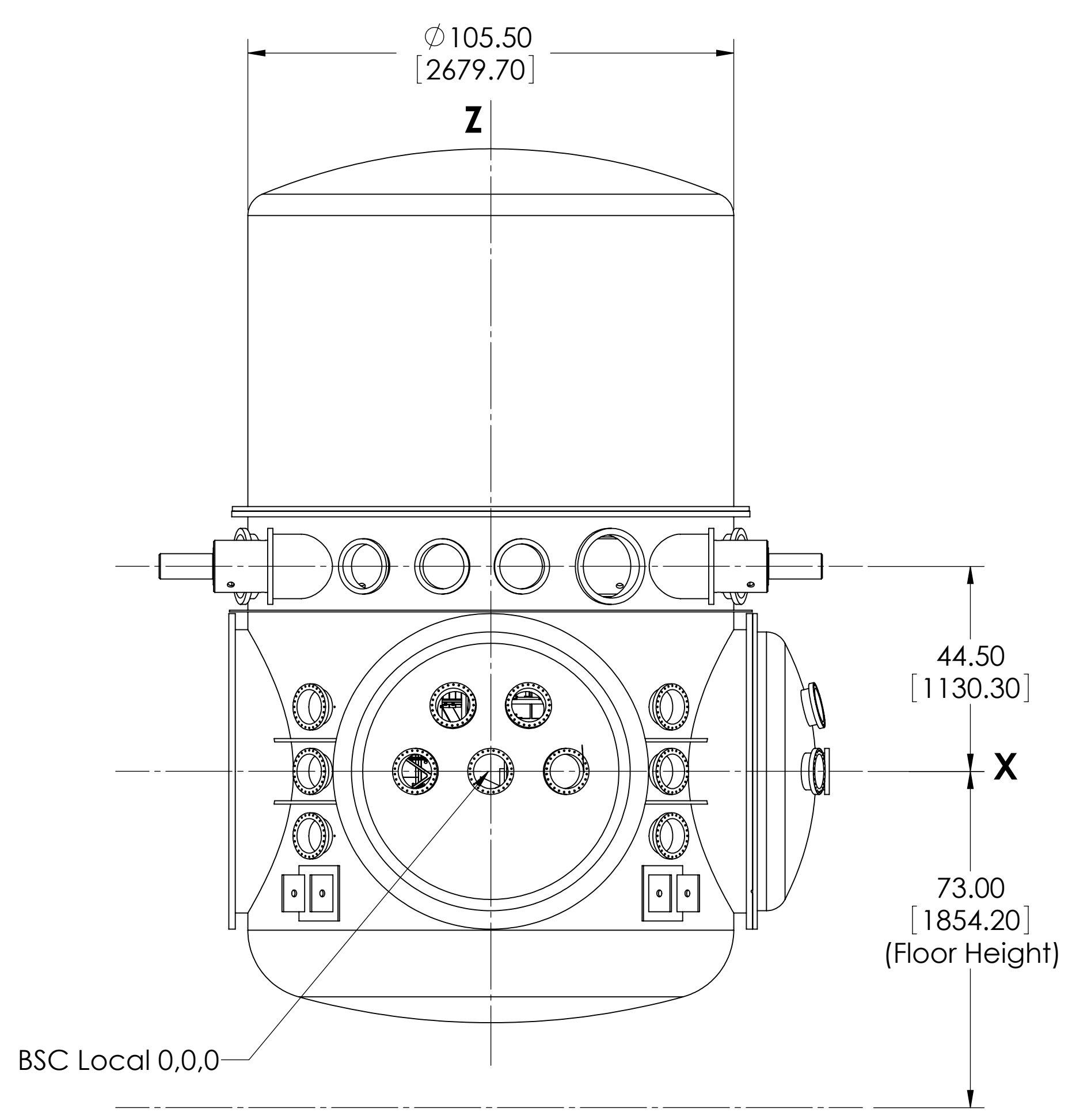
REV.	DATE	DCN #	DRAWING TREE #
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-	-	-	-
-	-	-	-



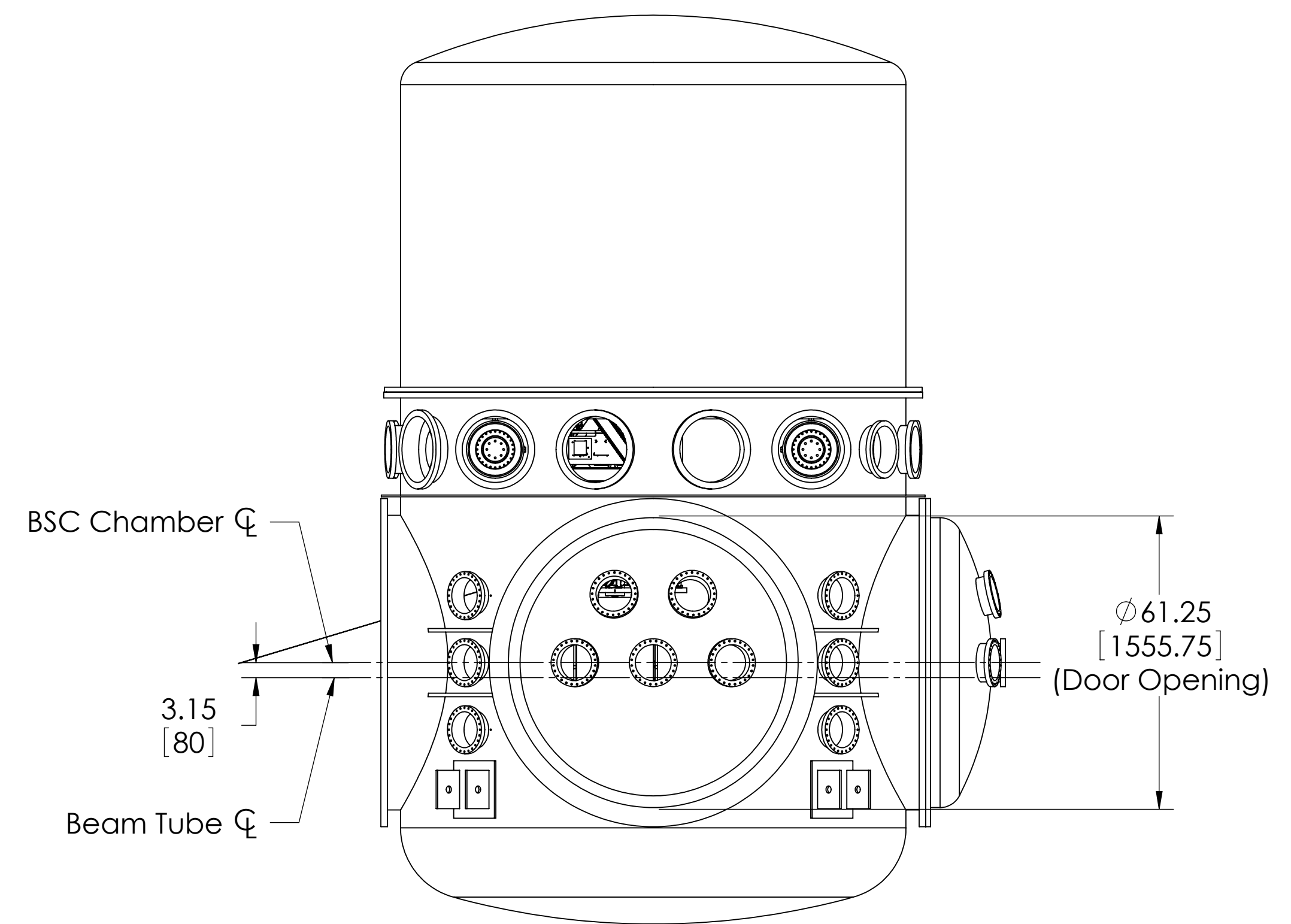
TOP VIEW



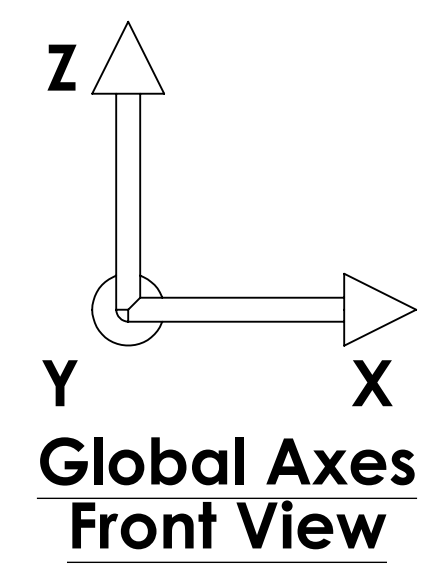
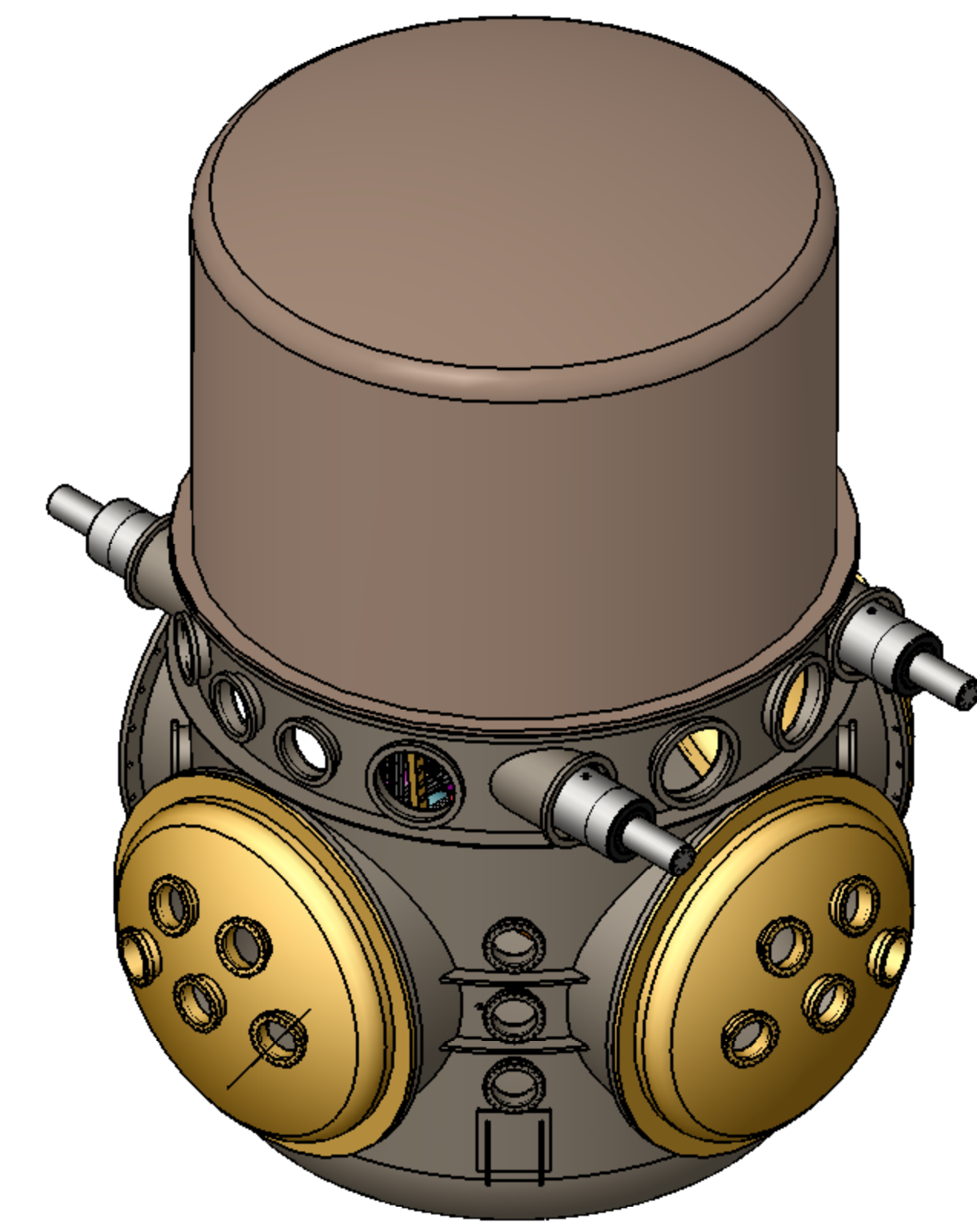
LLO X-END STATION



FRONT VIEW



RIGHT SIDE VIEW



BSC4-L1	
GLOBAL COORDINATES (mm)	
X	4000000.0
Y	0.0
Z	0.0

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES

TOLERANCES:
 .XX ± 0.01
 .XXX ± 0.005
 ANGULAR ± 0.5°

MATERIAL	--	FINISH	-- μinch
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LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

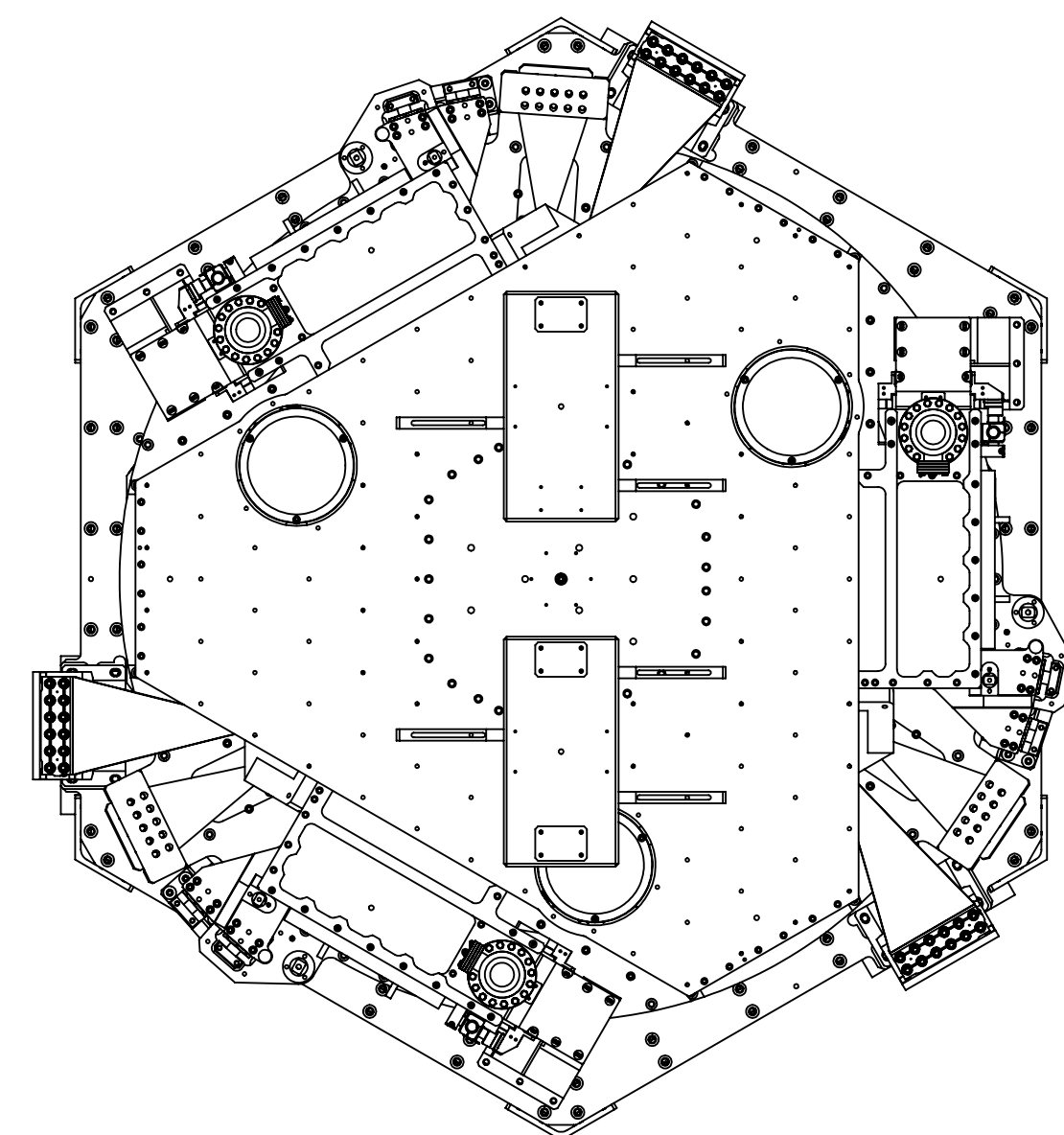
SYSTEM: **ADVANCED LIGO** SUB-SYSTEM: **SUS**

PART NAME: **BSC4-L1 Top Level Chamber Assembly, Fully Defined**

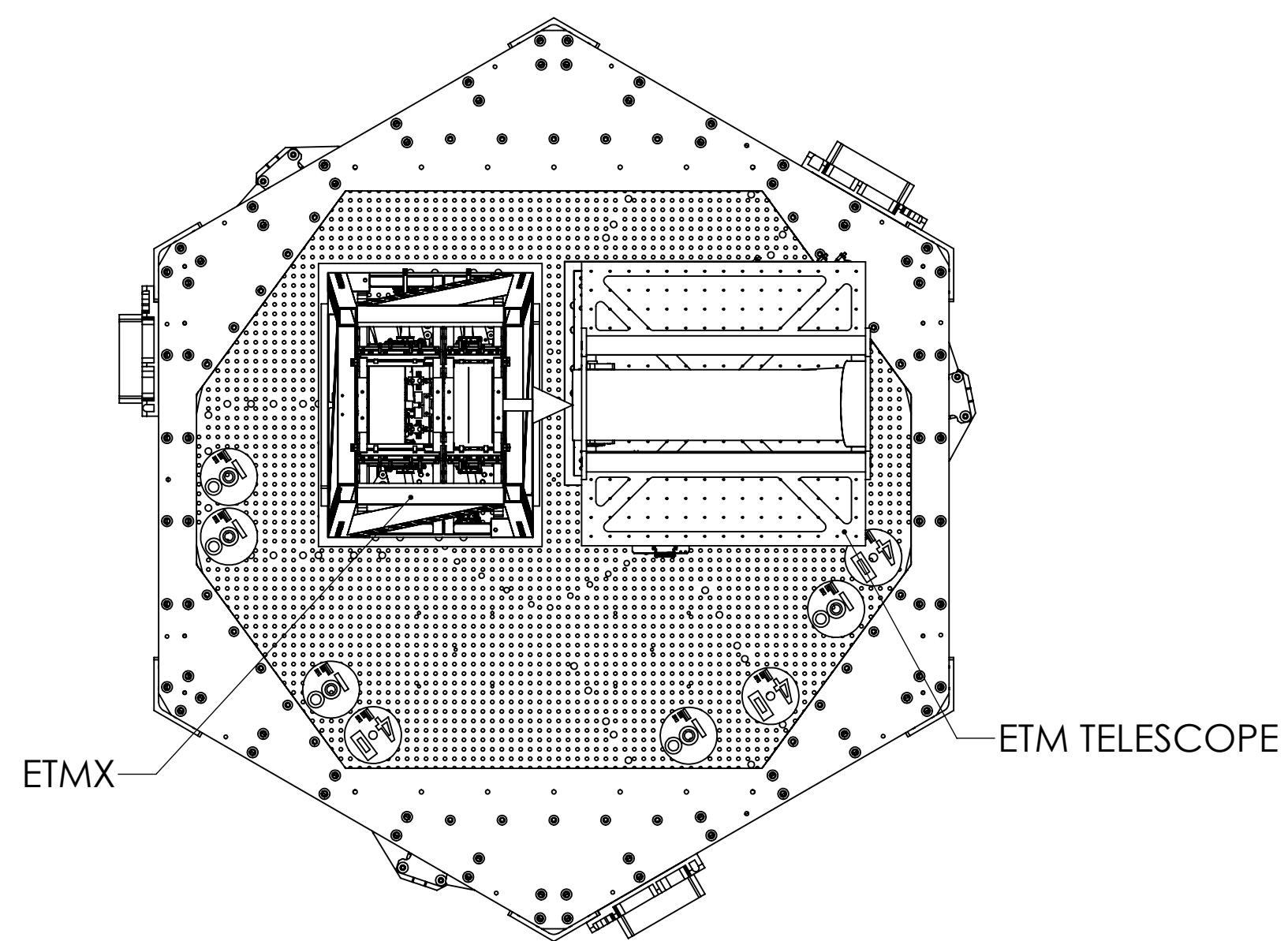
DESIGNER	ED CHAVEZ	DATE	01 DEC 2009	SIZE	DWG. NO.	REV.
DRAFTER				D	D0900471	v3
CHECKER				SCALE: 1:32	PROJECTION:	SHEET 1 OF 5
APPROVAL						

D0900471 BSC4-L1 Top Level Chamber Assembly, Complicated-1 PART PDM REV: X.010, DRAWING PDM REV: X.002

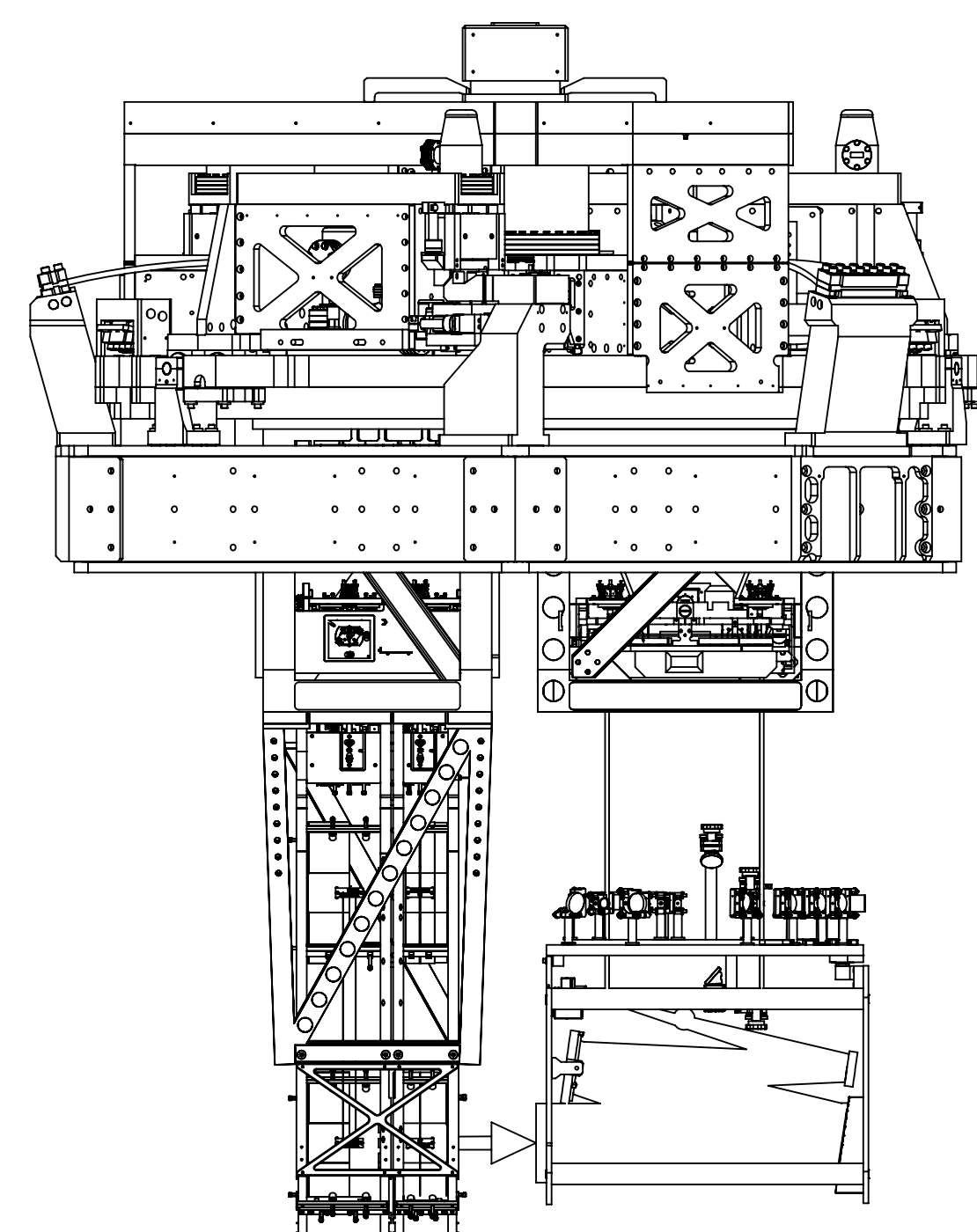
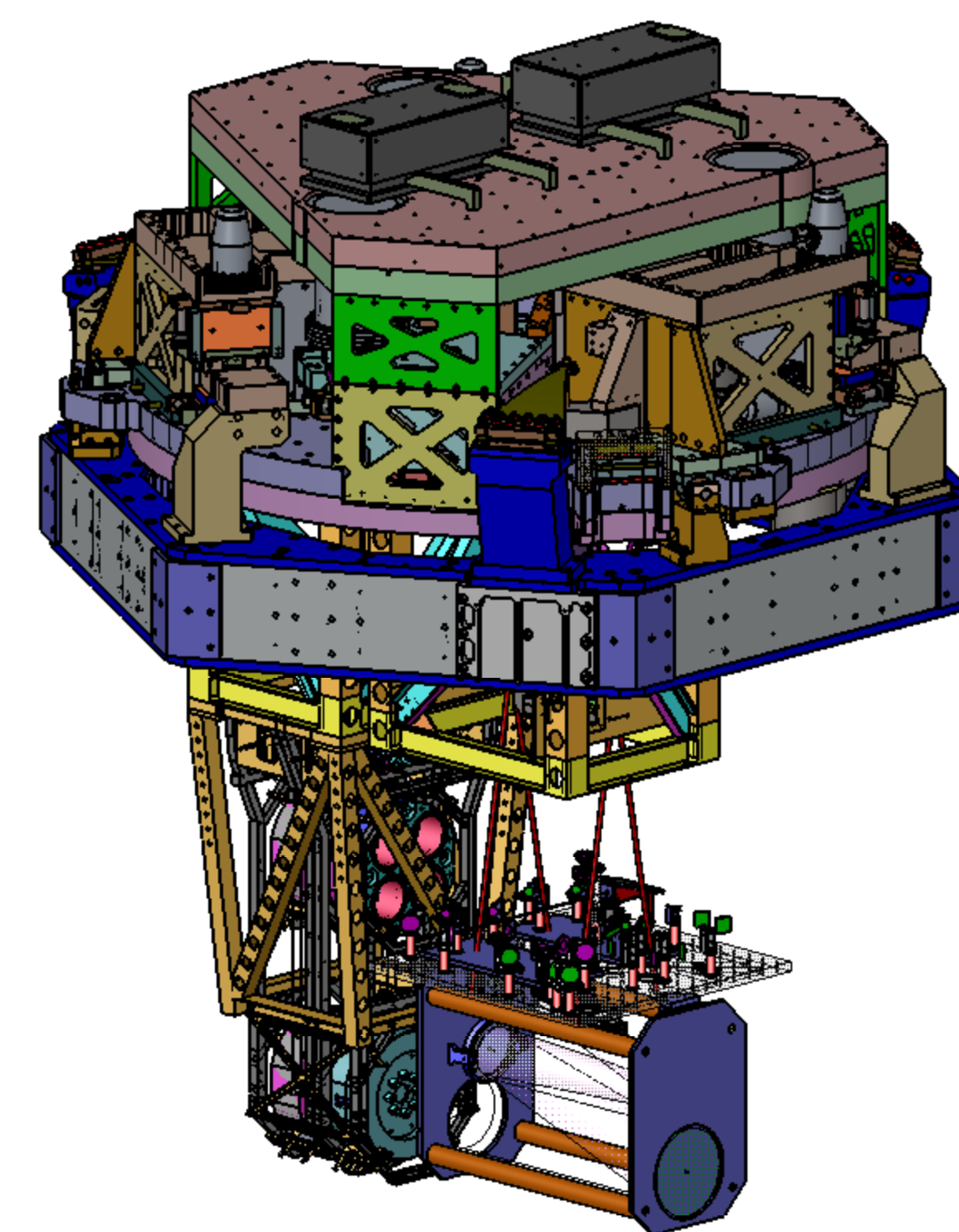
REV.	DATE	DCN #	DRAWING TREE #
-	-	-	-
-	-	-	-
-	-	-	-



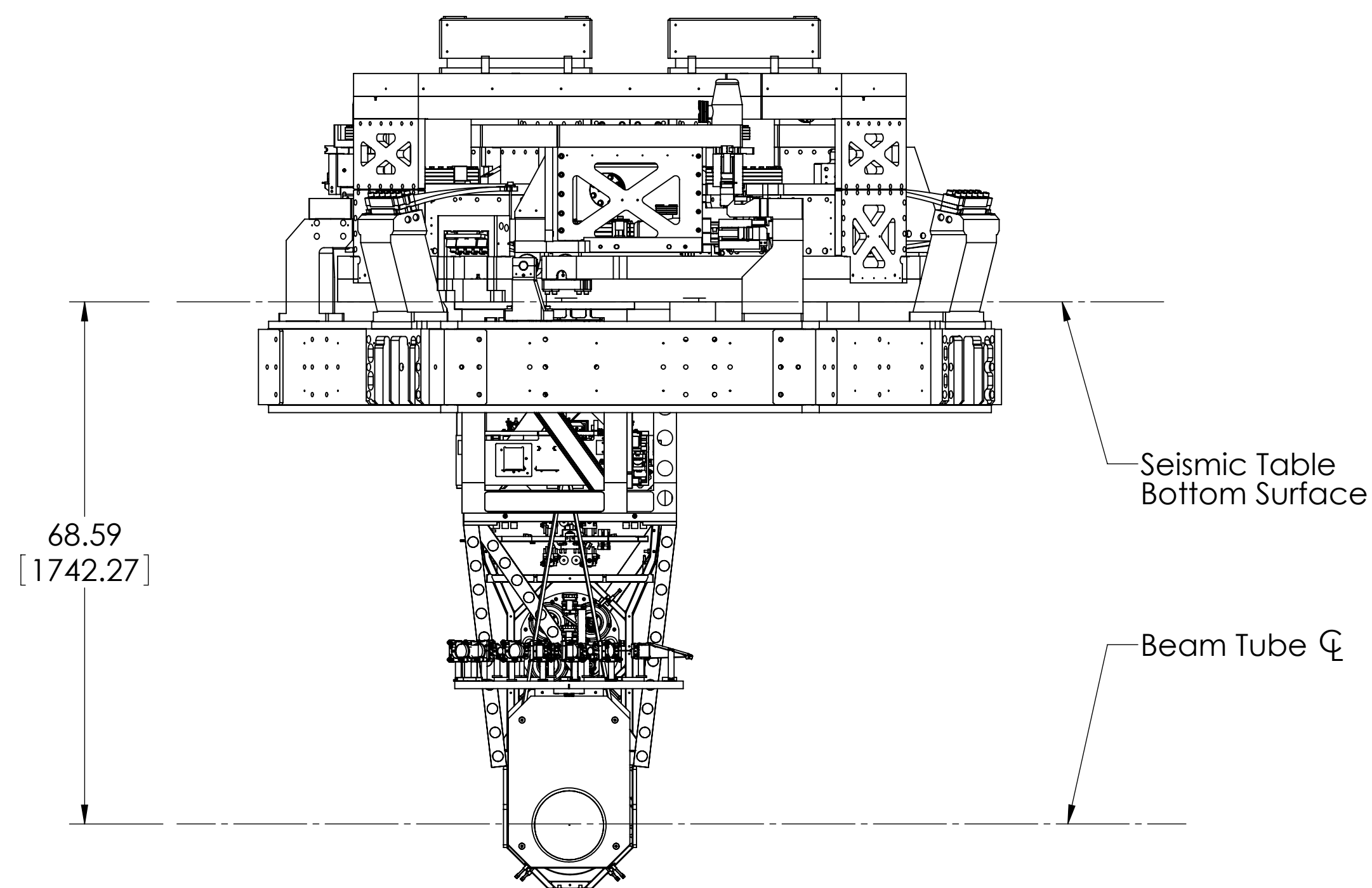
TOP VIEW



BOTTOM VIEW



FRONT VIEW



RIGHT SIDE VIEW

BSC4-L1 GLOBAL COORDINATES (mm)	
X	4000000.0
Y	0.0
Z	0.0

DIMENSIONS ARE IN INCHES

TOLERANCES:
.XX ± 0.01
.XXX ± 0.005

ANGULAR ± 0.5°

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

MATERIAL	--	FINISH	--	μinch
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SYSTEM ADVANCED LIGO SUB-SYSTEM SUS

NEXT ASSY

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	FULL/QTY.
5	D0900435	AdvLIGO SUS BSC4-L1, XYZ Local CS for ETM Tel Assy	--	1
4	D0900344	AdvLIGO Systems SEI Table Counterweight Assy	--	1
3	D0900478	AdvLIGO SUS BSC4-L1, XYZ Local CS for ETMX	--	1
2	D0900477	AdvLIGO SEI BSC4-L1, XYZ Local CS for ISI Table	--	1
NOT SHOWN	D0900473	AdvLIGO VE BSC4-L1, Vacuum Equipment Assembly	--	1

PART NAME				
BSC4-L1 Top Level Chamber Assembly, Fully Defined				
DESIGNER	ED CHAVEZ	SIZE	D	DWG. NO.
DRAFTER		DATE	01 DEC 2009	D0900471
CHECKER		SCALE	1:32	PROJECTION
APPROVAL				SHEET 2 OF 5

REV. v3

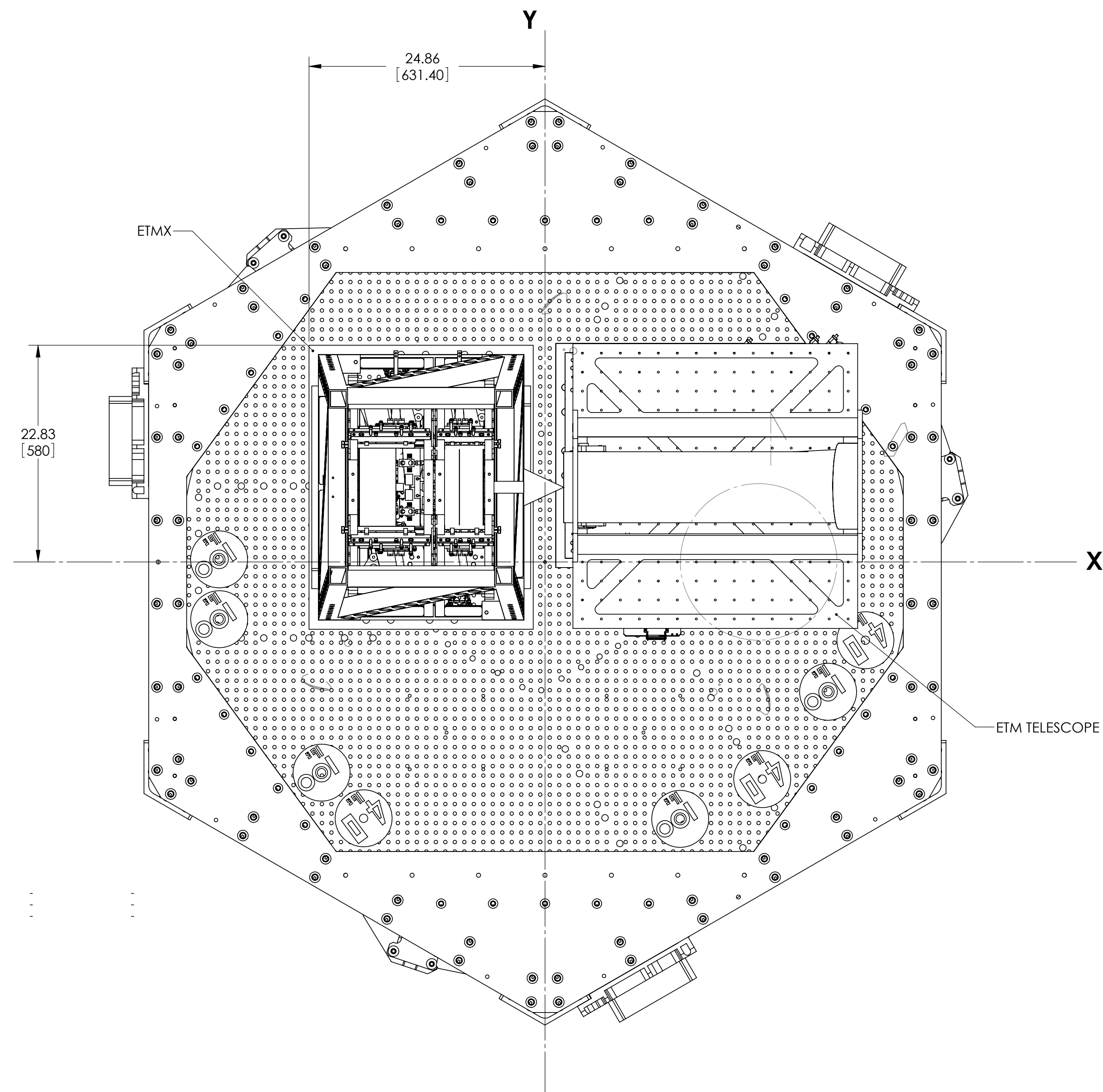
SCALE: 1:32

PROJECTION

SHEET 2 OF 5

D0900471 BSC4-L1 Top Level Chamber Assembly, Complicated II.PART.PDM.REV.X-010.DRAWING.PDM.REV.X-000

REV.	DATE	DCN #	DRAWING TREE #



BOTTOM VIEW

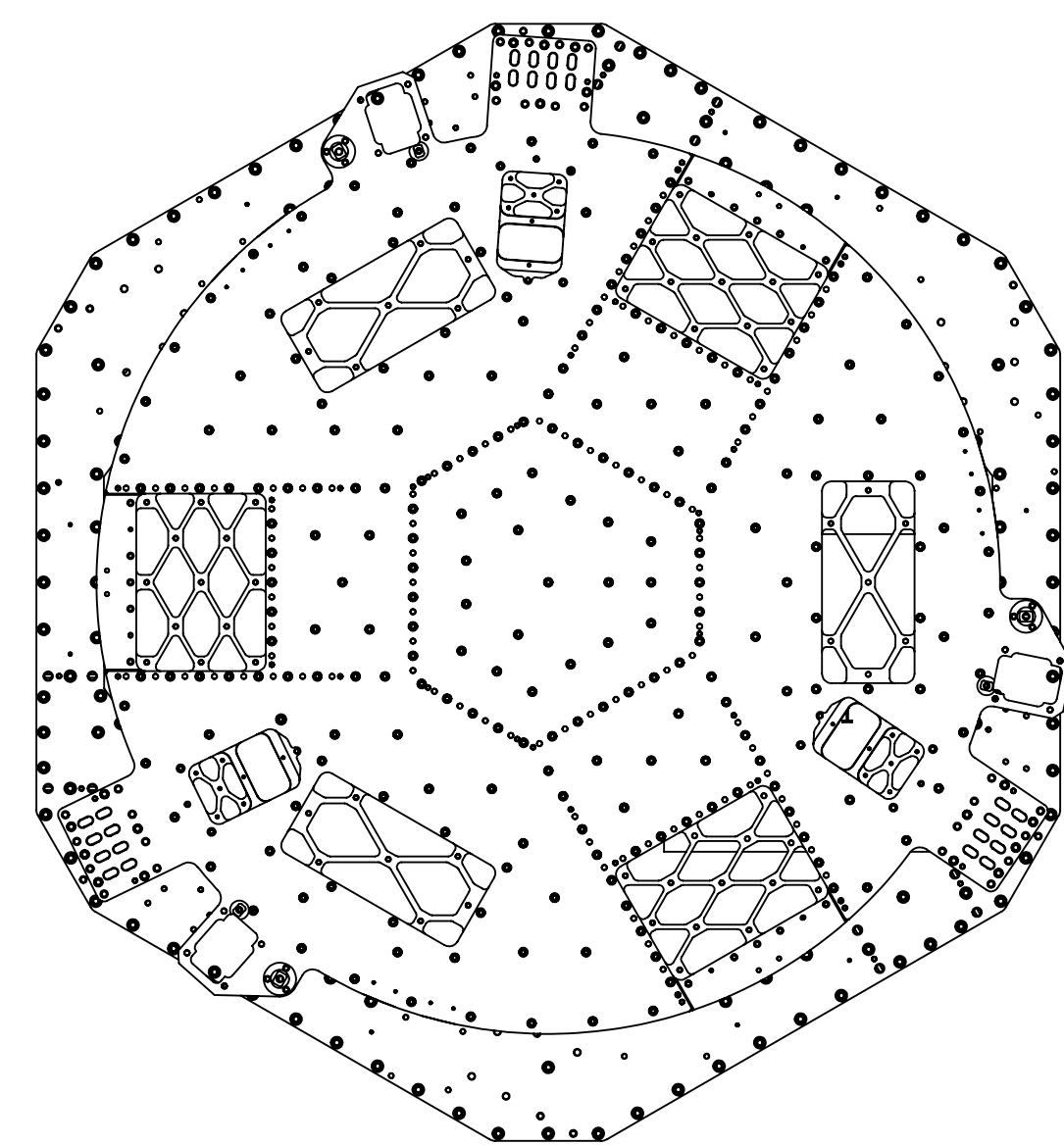
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
DIMENSIONS ARE IN	
TOLERANCES:	
.XX ±	
.XXX ±	
ANGULAR ± °	
MATERIAL	--
FINISH	-- μinch

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SYSTEM	SUB-SYSTEM
ADVANCED LIGO	SUS
NEXT ASSY	

PART NAME			
BSC4-L1 Top Level Chamber Assembly, Fully Defined			
DESIGNER	SIZE	DWG. NO.	REV.
DRAFTER	ED CHAVEZ	01 DEC 2009	v3
CHECKER			
APPROVAL			
SCALE: 1:2		PROJECTION:	SHEET 3 OF 5

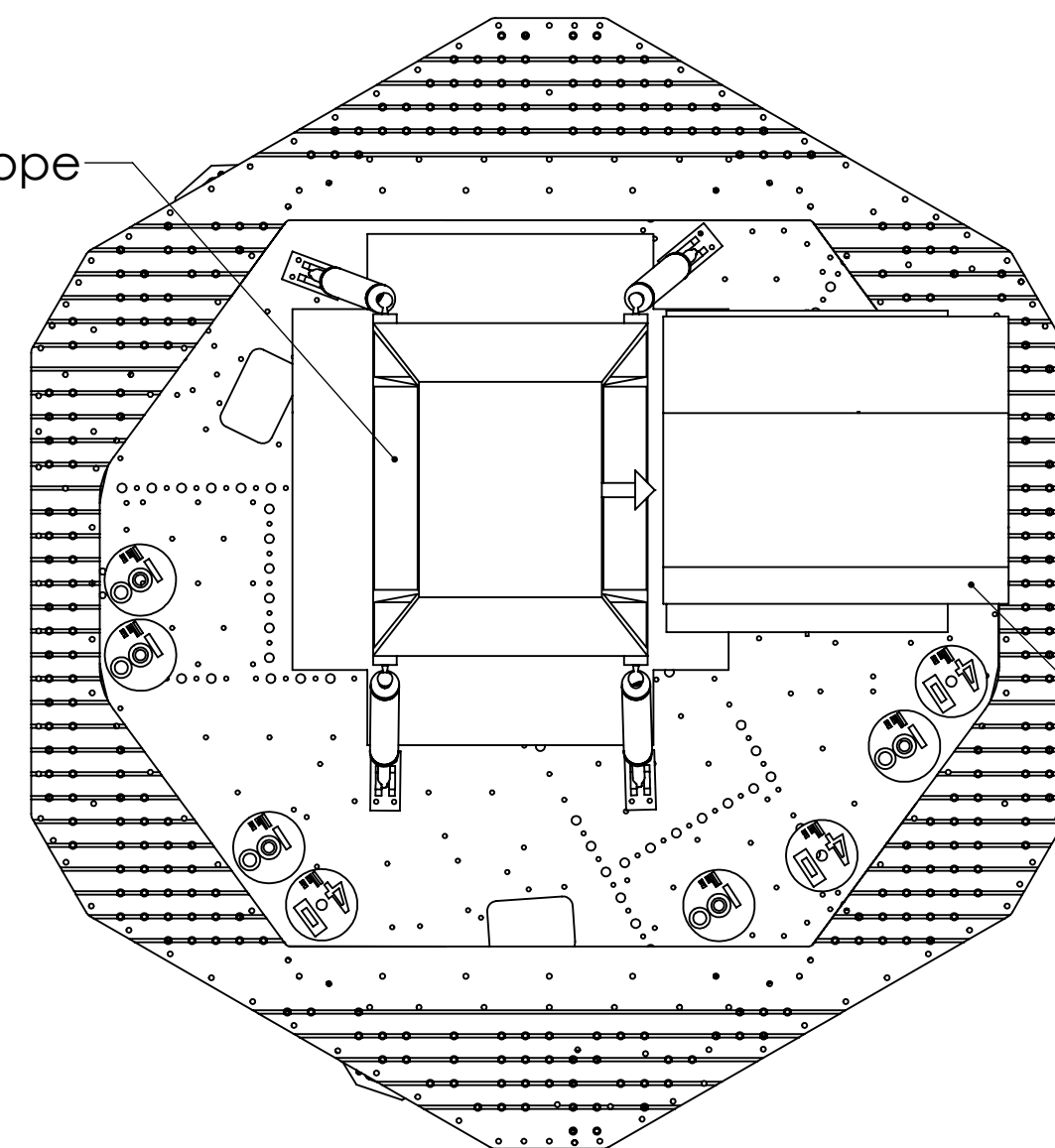
D0900471 BSC4-L1 Top Level Chamber Assembly, Complicated III, PART PDM REV: X-010, DRAWING PDM REV: B

REV.	DATE	DCN #	DRAWING TREE #
-	-	-	-
-	-	-	-
-	-	-	-



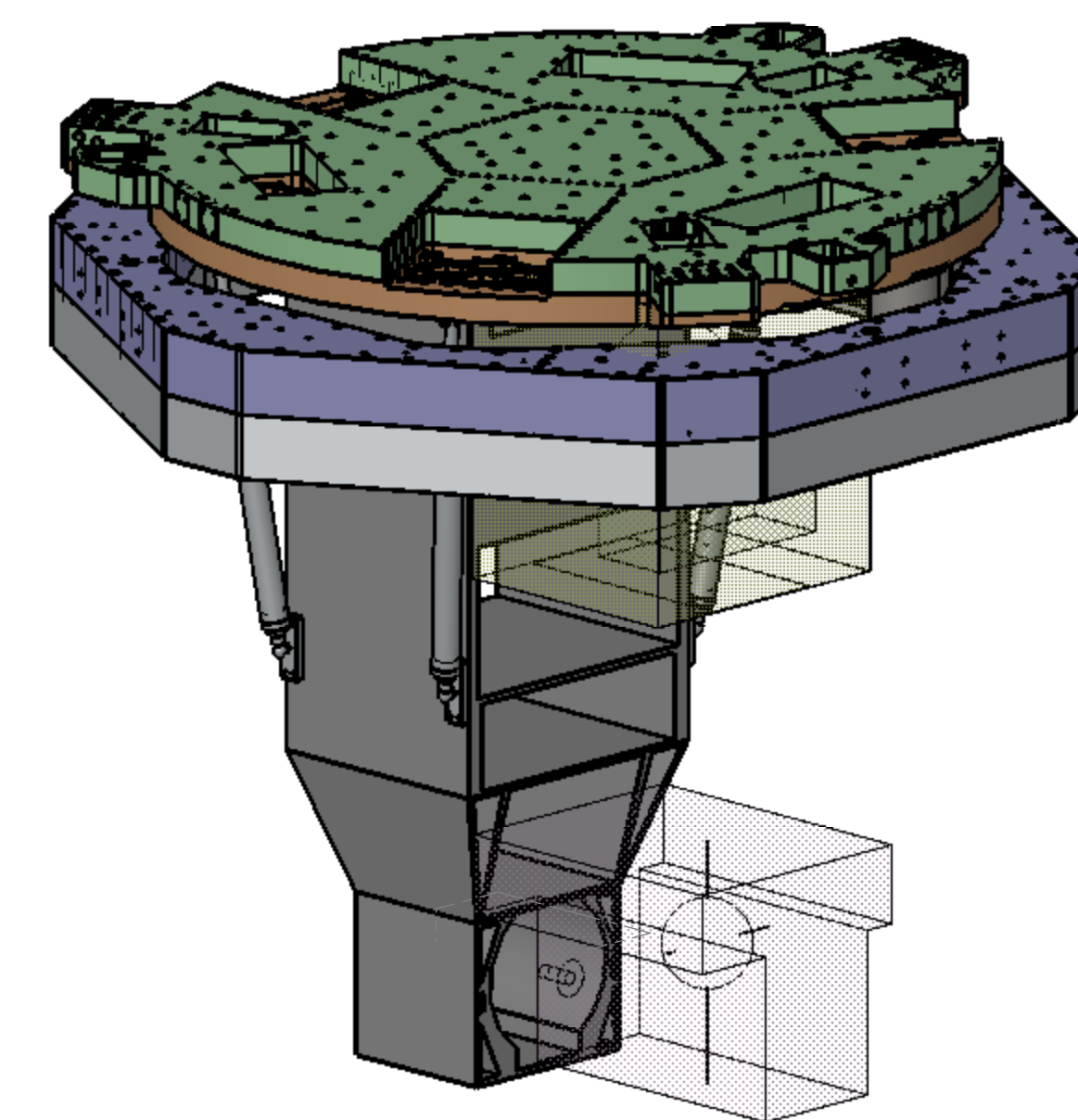
TOP VIEW

ETMX Envelope

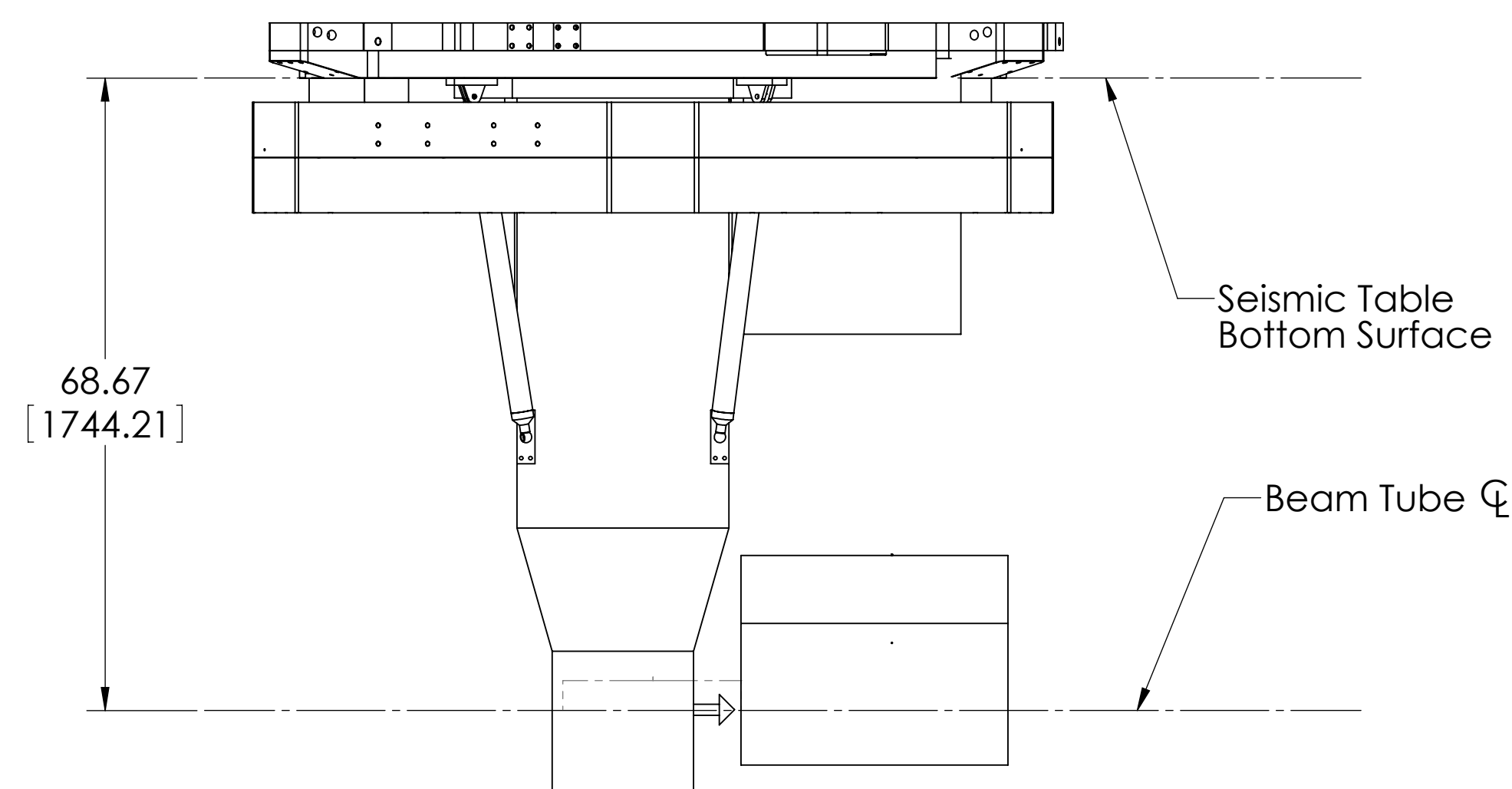


BOTTOM VIEW

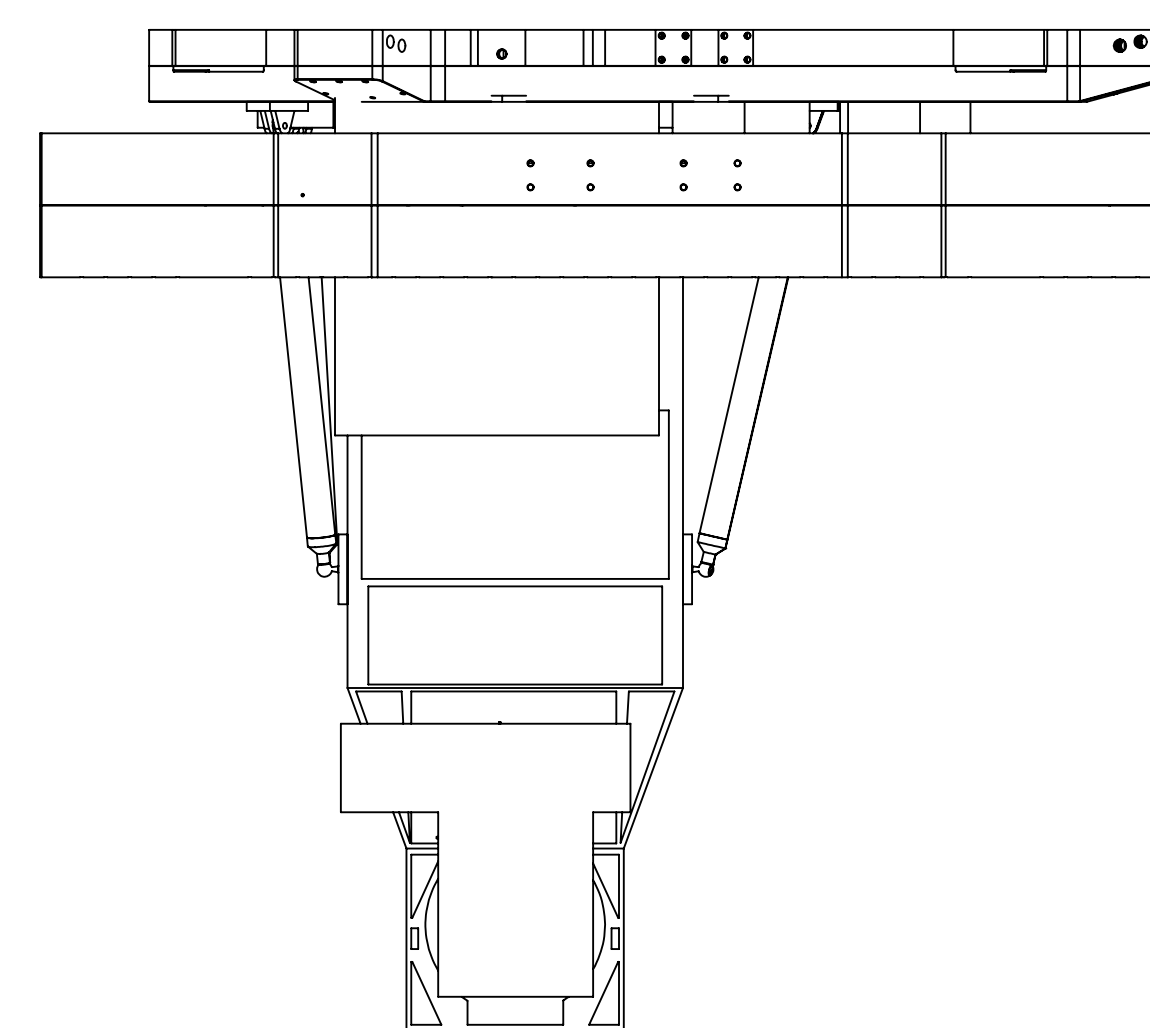
ETM Telescope



**NO SUSPENDED MASS &
NO CHAMBER SHOWN**



FRONT VIEW



RIGHT SIDE VIEW

BSC4-L1	
CofG COORDINATES (mm)	
X	39.6
Y	95.7
Z	1277.5
TABLE MASS W/NO SUS-MASS TOTAL	541.12

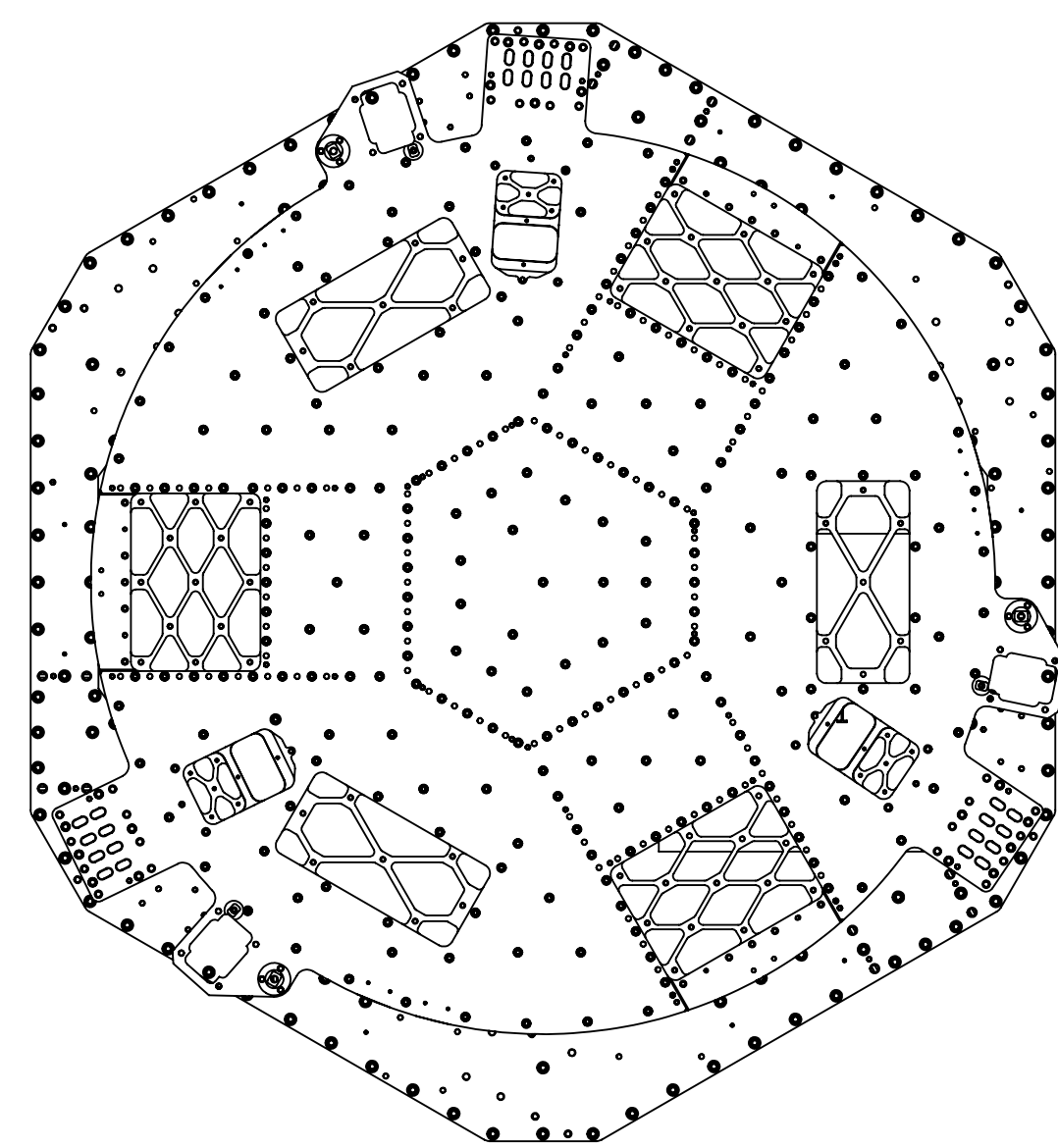
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
DIMENSIONS ARE IN INCHES	
TOLERANCES: .XX ± 0.01 .XXX ± 0.005	
ANGULAR ± 0.5°	
MATERIAL	FINISH
--	-- μinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SYSTEM	SUB-SYSTEM
ADVANCED LIGO	SUS
NEXT ASSY	

PART NAME			
BSC4-L1 Top Level Chamber Assembly, Simplified			
DESIGNER	SIZE	DWG. NO.	REV.
DRAFTER	ED CHAVEZ	01 DEC 2009	D
CHECKER			D0900471
APPROVAL			v3
SCALE: 1:24		PROJECTION:	SHEET 4 OF 5

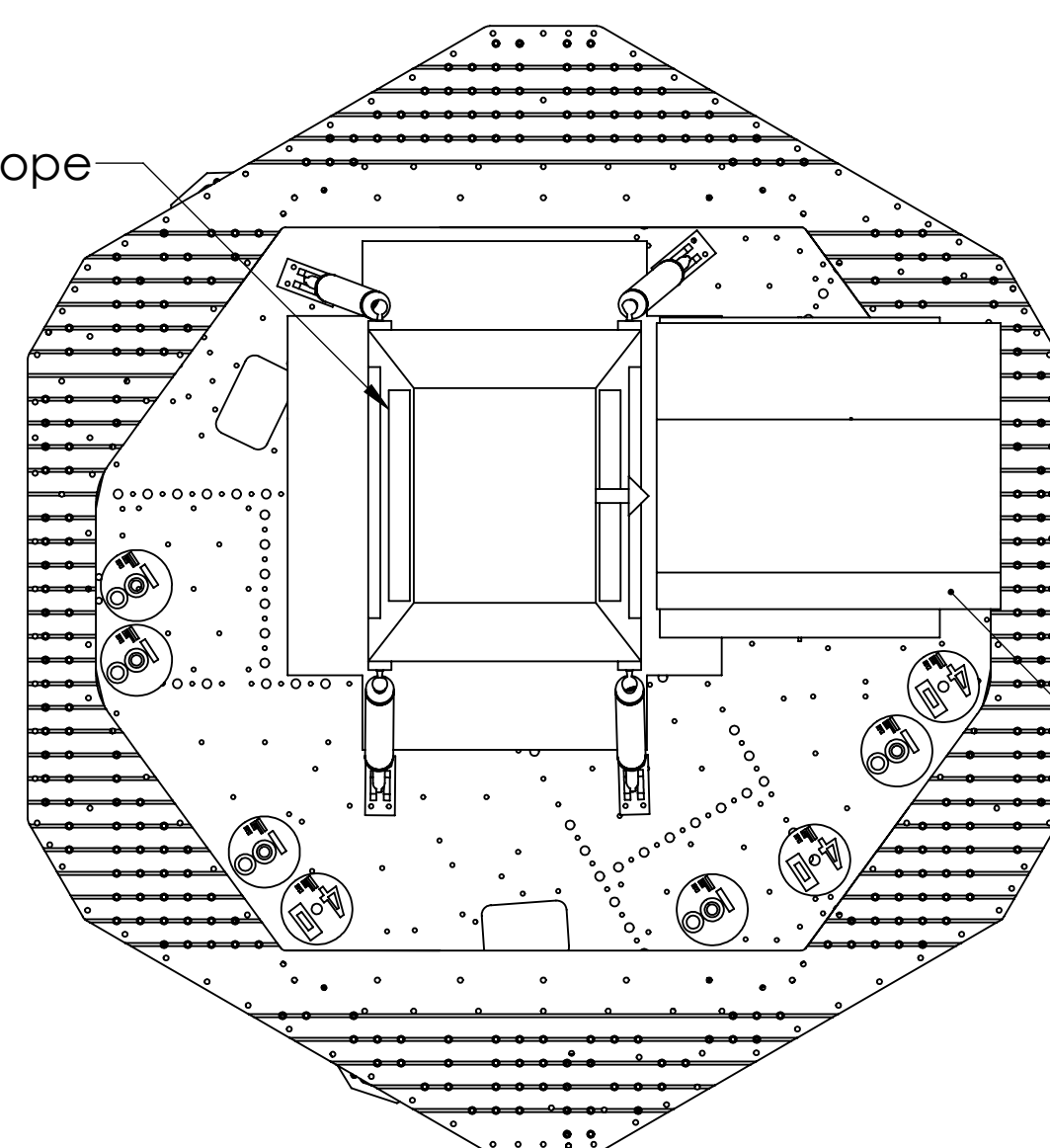
D0900471 BSC4-L1 Top Level Chamber Assembly, Simplified - PART PDM REV: X-010, DRAWING PDM REV: X-000

REV.	DATE	DCN #	DRAWING TREE #
-	-	-	-
-	-	-	-
-	-	-	-



TOP VIEW

ETMX Envelope



ETM Telescope

BOTTOM VIEW

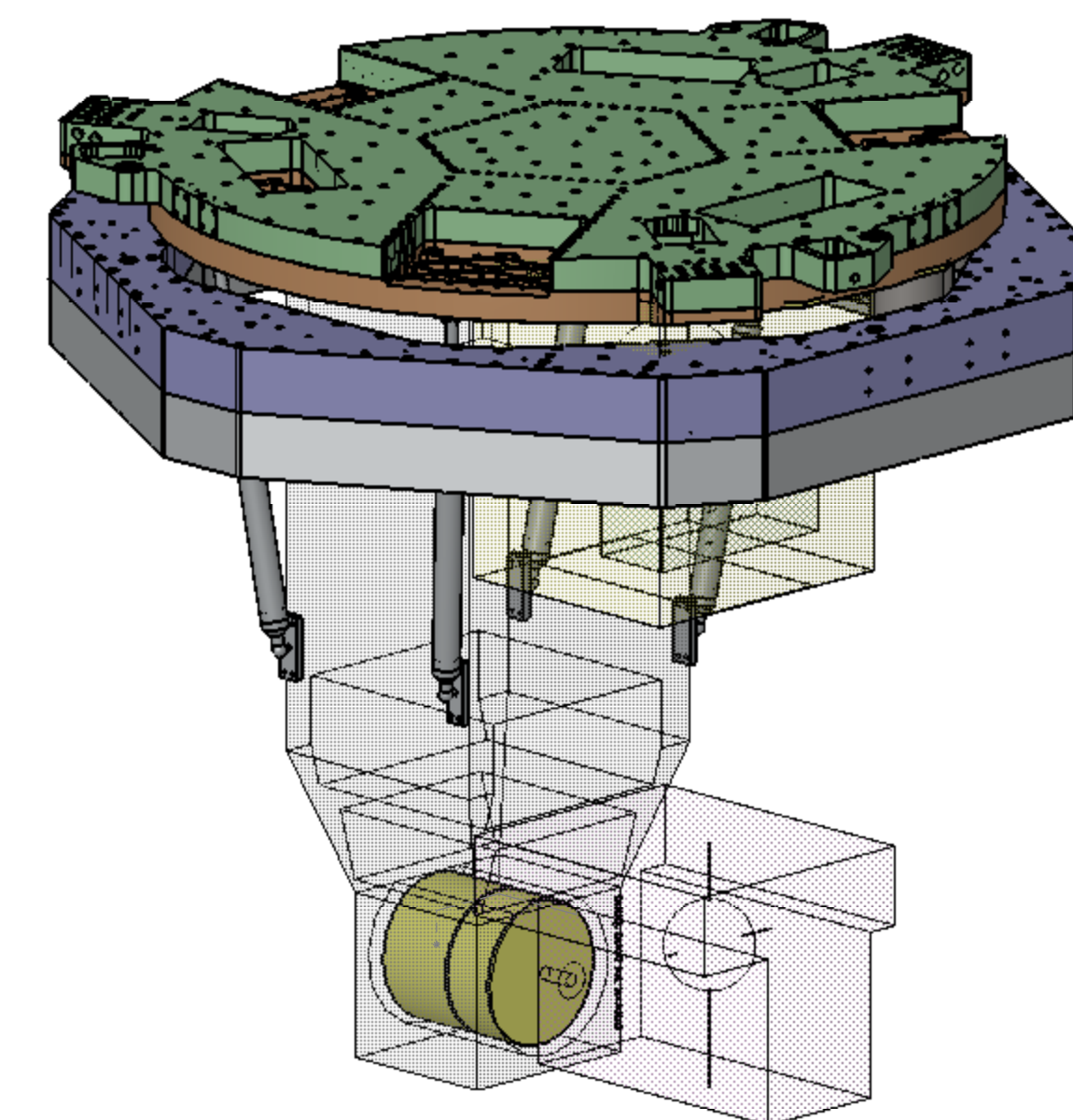
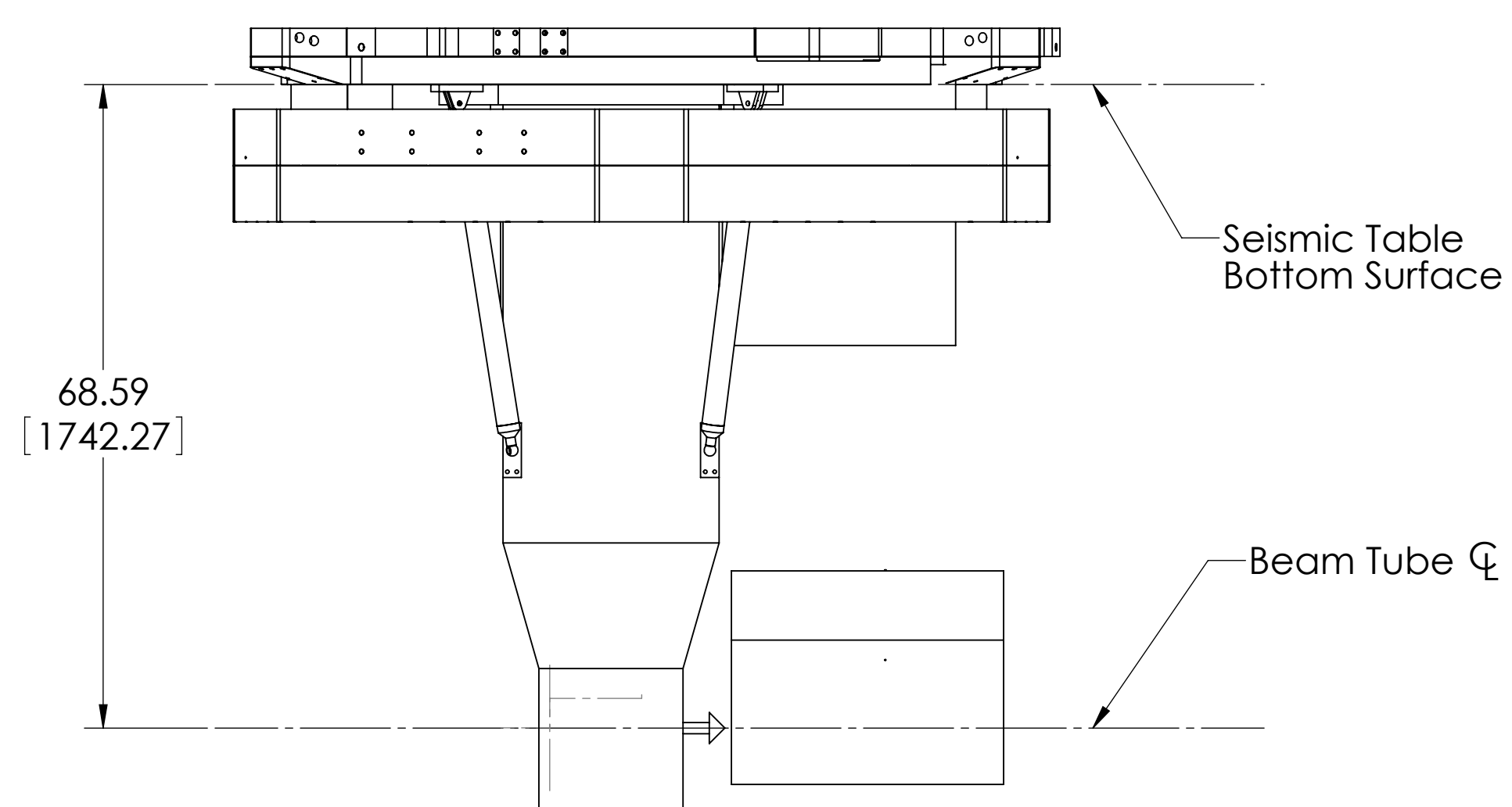
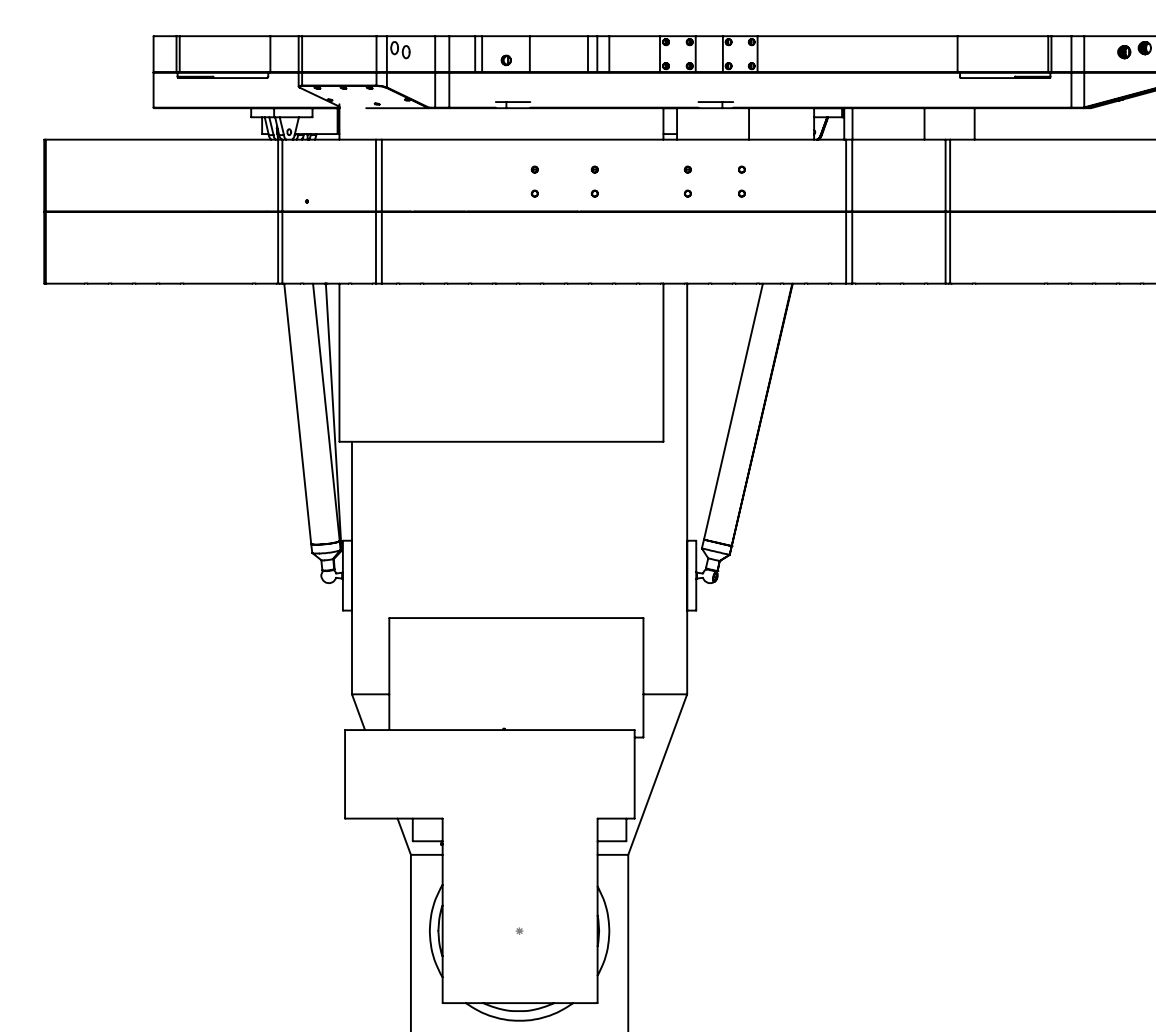


TABLE MASS TOTAL & NO CHAMBER SHOWN



FRONT VIEW



RIGHT SIDE VIEW

BSC4-L1	
CofG COORDINATES (mm)	
X	0.52
Y	1.60
Z	1035.47
TABLE MASS TOTAL	795.49

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
DIMENSIONS ARE IN INCHES	
TOLERANCES: .XX ± 0.01 .XXX ± 0.005	
ANGULAR ± 0.5°	
MATERIAL	FINISH
--	-- μinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SYSTEM	SUB-SYSTEM
ADVANCED LIGO	SUS
NEXT ASSY	

PART NAME			
BSC4-L1 Top Level Chamber Assembly, Simplified			
DESIGNER	SIZE	DWG. NO.	REV.
DRAFTER	ED CHAVEZ	01 DEC 2009	D
CHECKER			D0900471
APPROVAL			v3
SCALE: 1:24		PROJECTION:	SHEET 5 OF 5

D0900471 BSC4-L1 Top Level Chamber Assembly, Simplified.dwg, PART PDM, REV: X.010, D0900471 PDM, REV: X.000