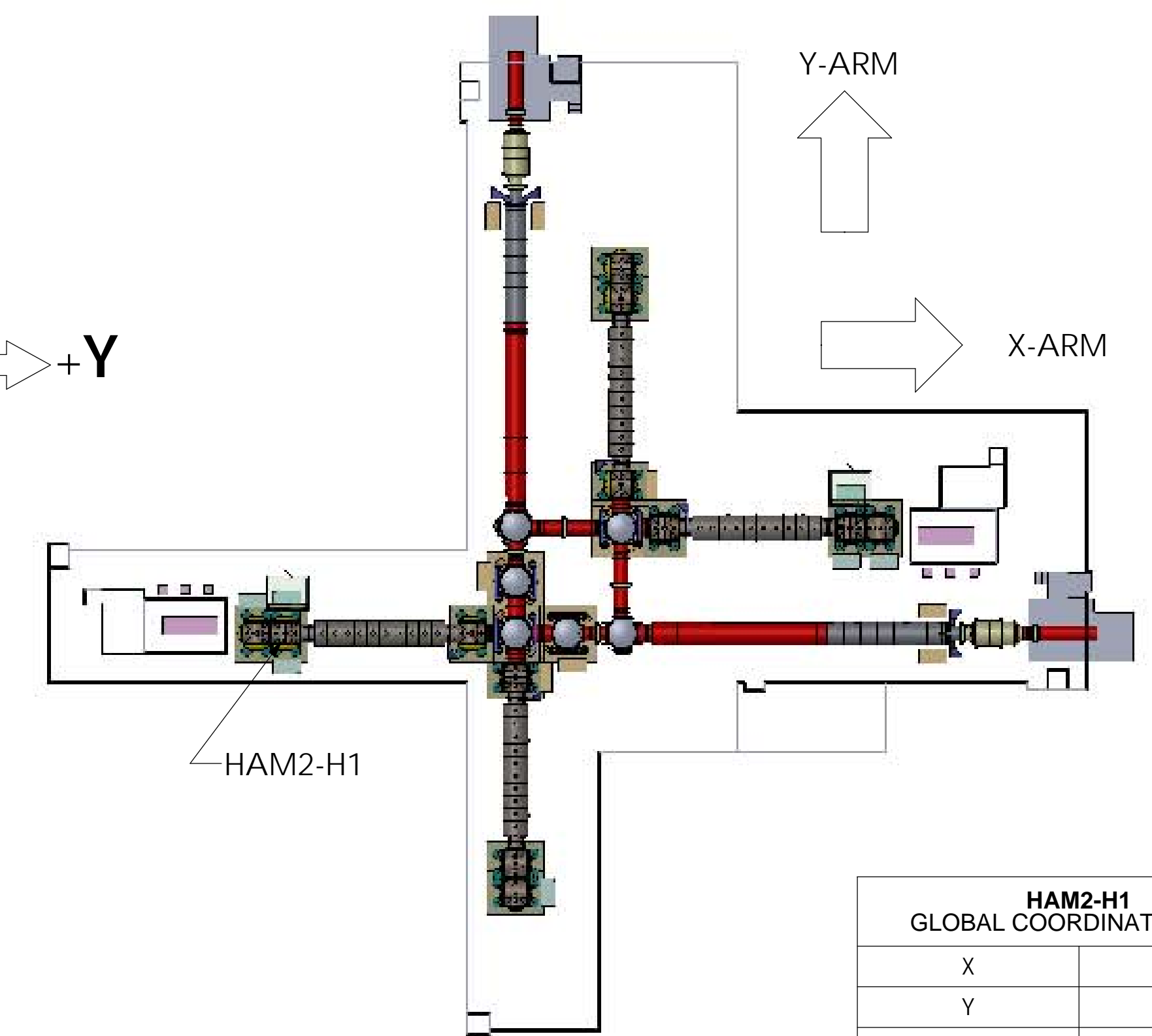
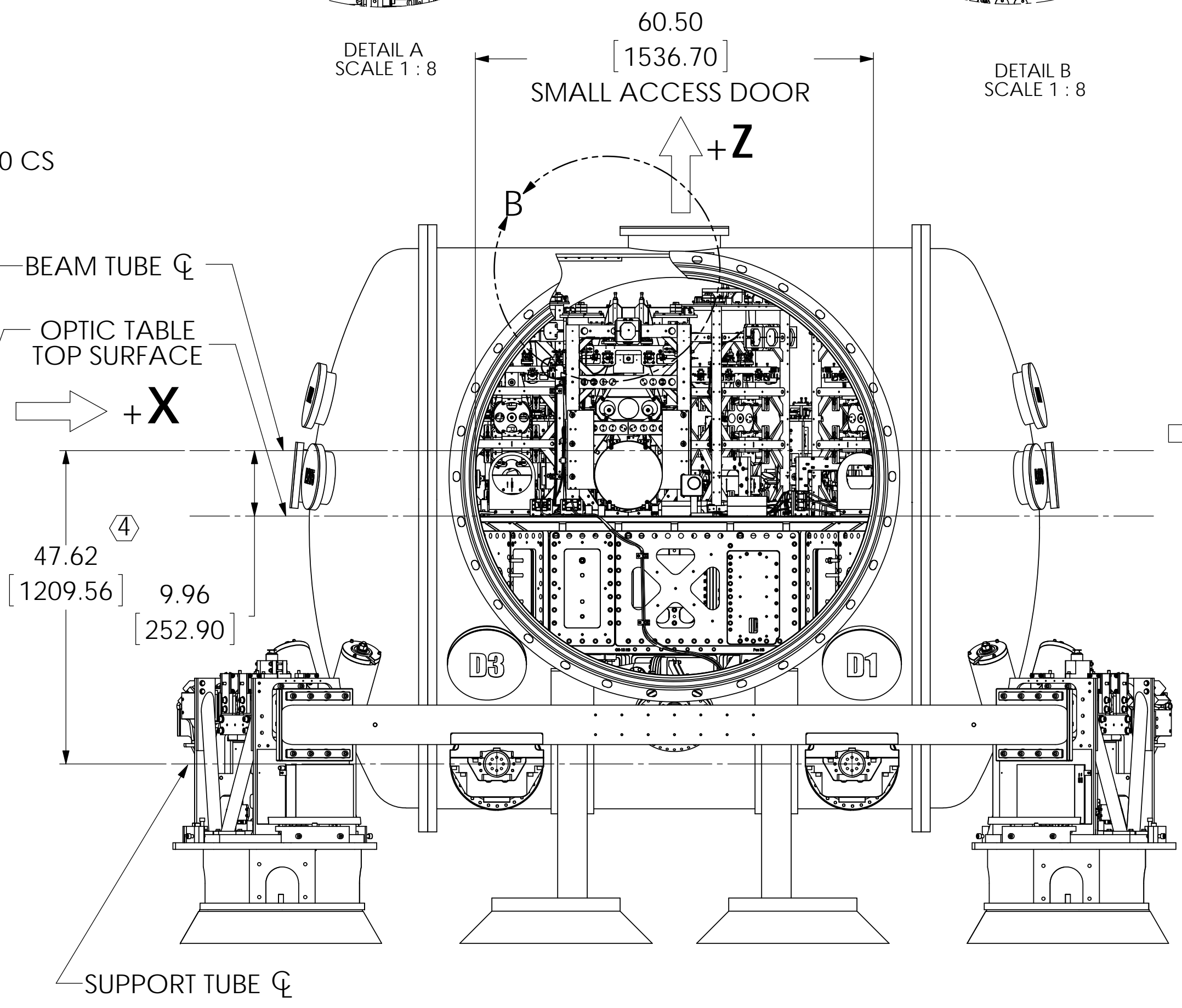
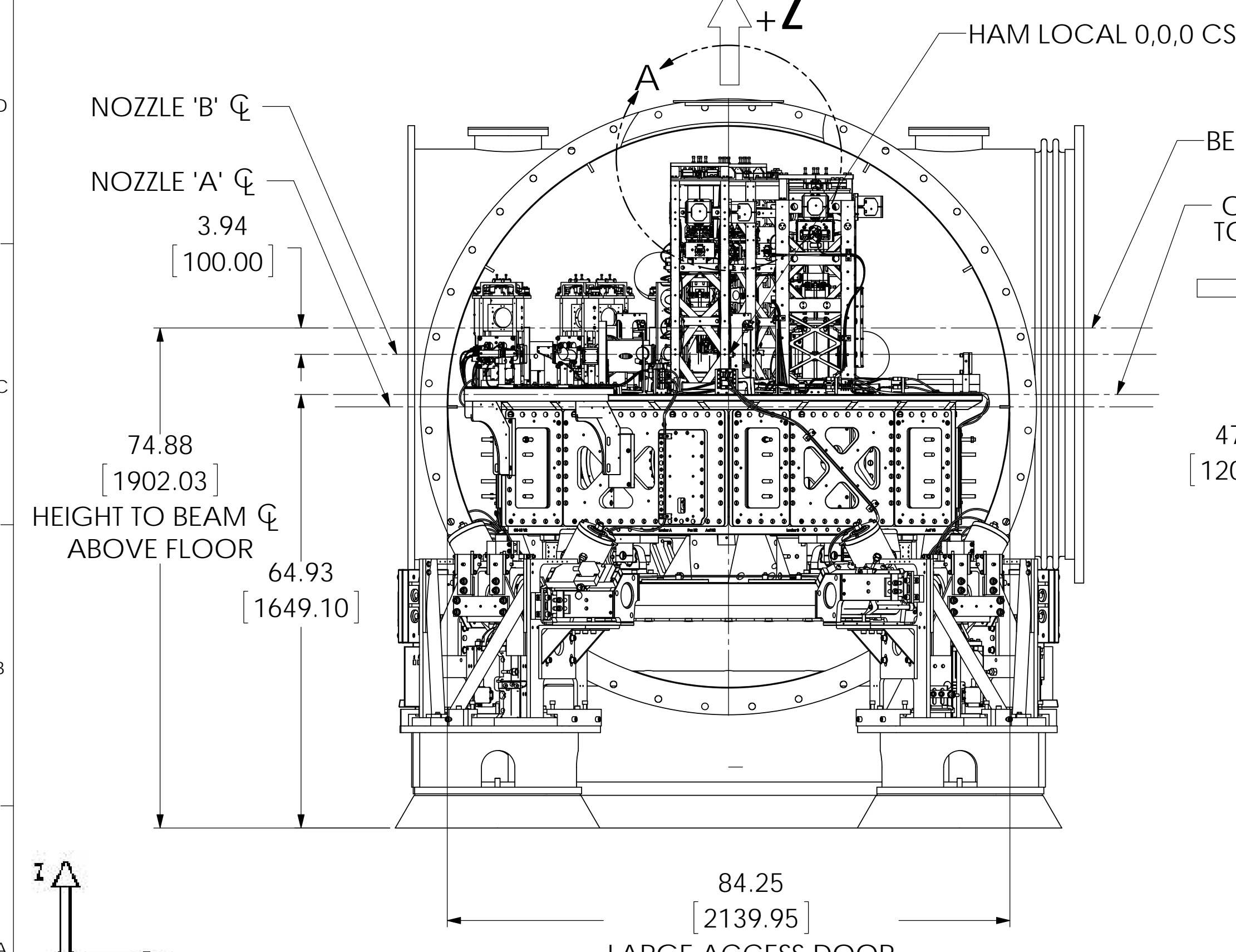
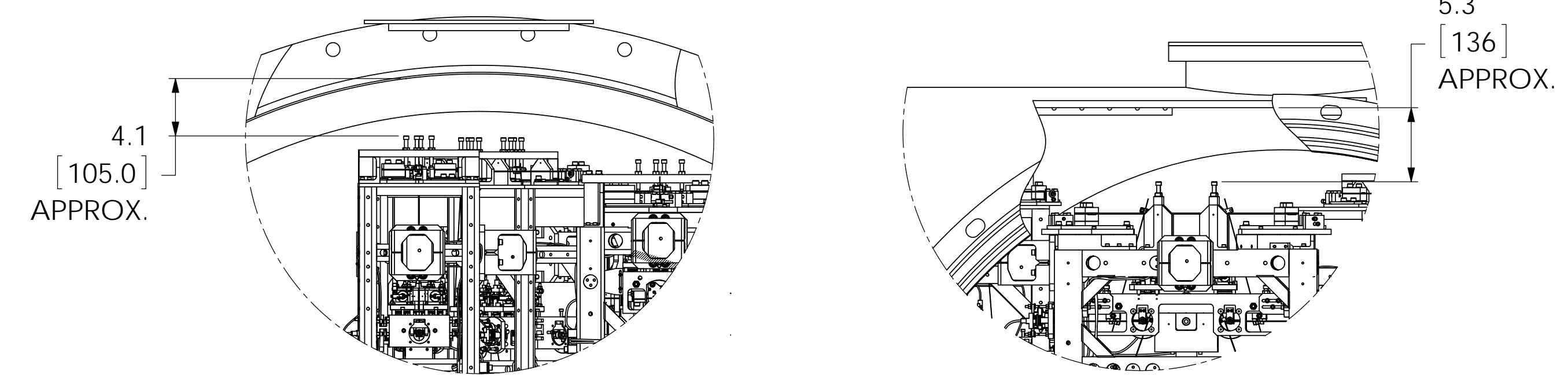
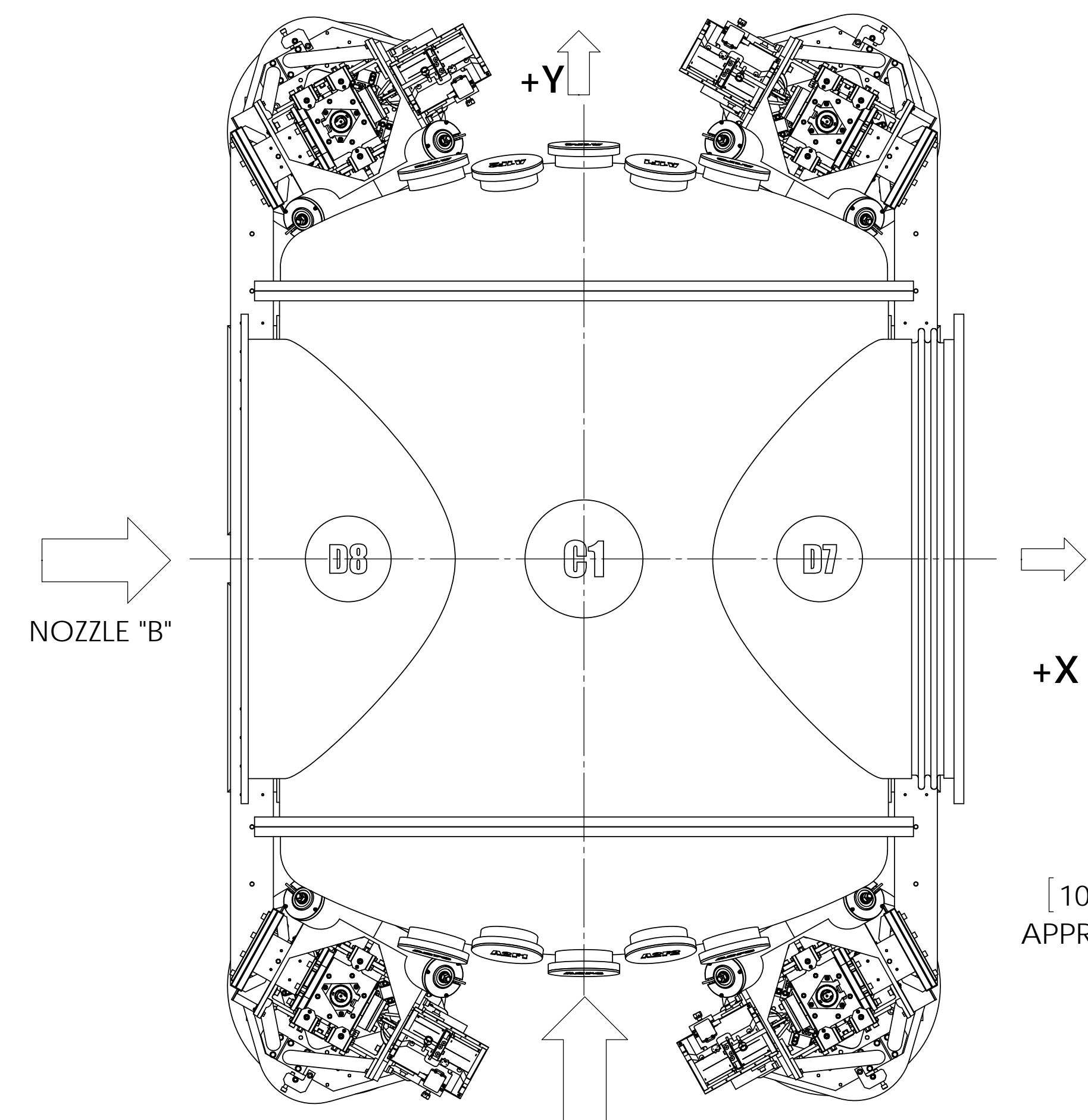
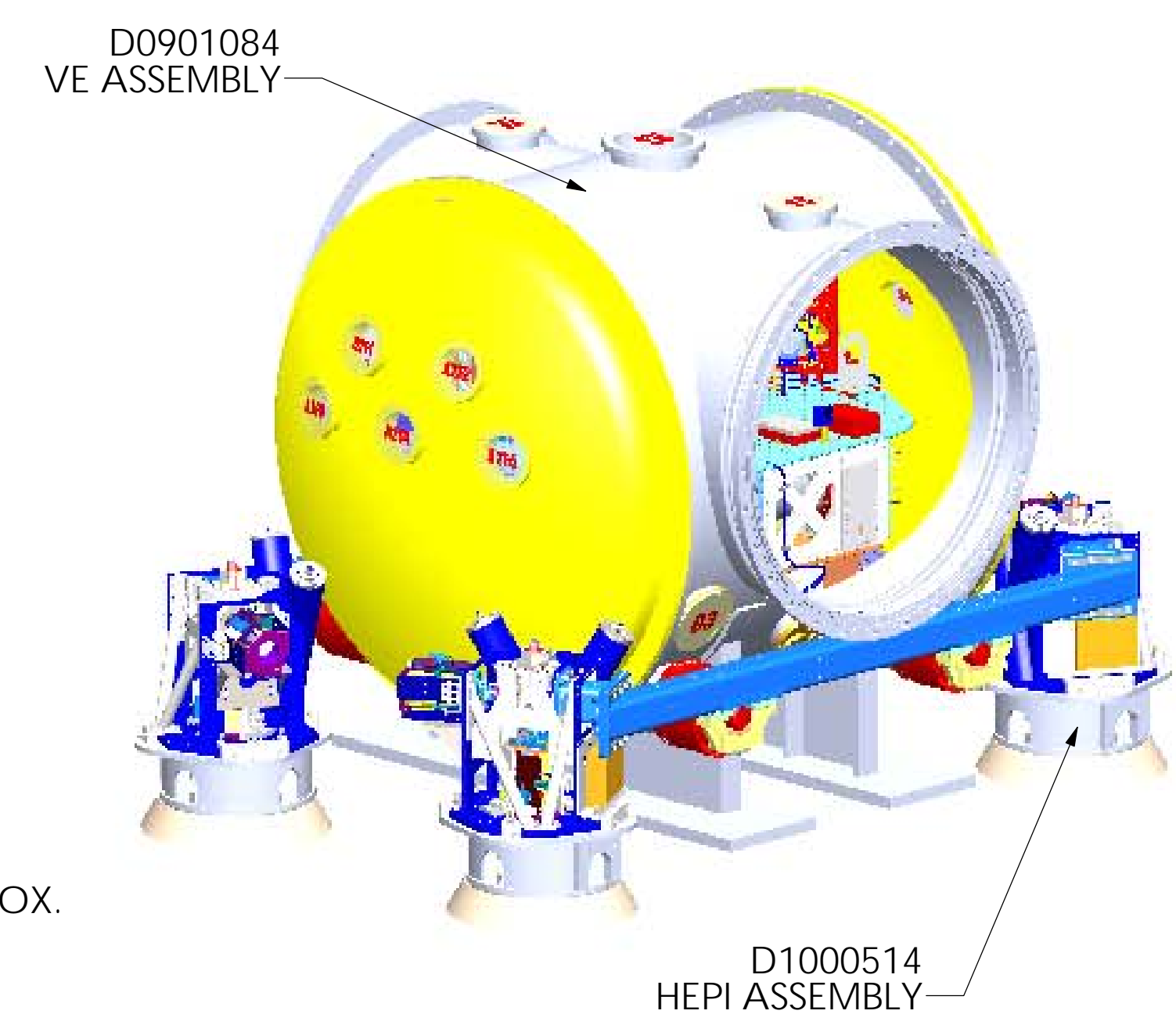


REV.	DATE	DCN #	DRAWING TREE #
v10	22 OCT 2013	E1300798-x0	
v11	12 NOV 2013		

1. REFER TO DOCUMENT D1101296 FOR OPTICAL TABLE HOLE TABULATION.
2. REFER TO G1000125 FOR ISI NAMING AND ORIENTATION CONVENTION..
3. REFER TO T1100292 FOR VIEWPORT DEFINITION.
- ④ DIMENSION WRT LOCAL BUILDING CS. REFER TO 11200625 FOR LOCAL COORDINATES OF SUPPORT TUBE ENDS.



HAM2-H1 GLOBAL COORDINATES (mm)	
X	-20122.0
Y	0.0
Z	0.0

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM: ADVANCED LIGO SUB-SYSTEM: SUS

MATERIAL: -- FINISH: -- μ inch

PART NAME: HAM2-H1 Top Level Chamber Assembly, Fully Defined

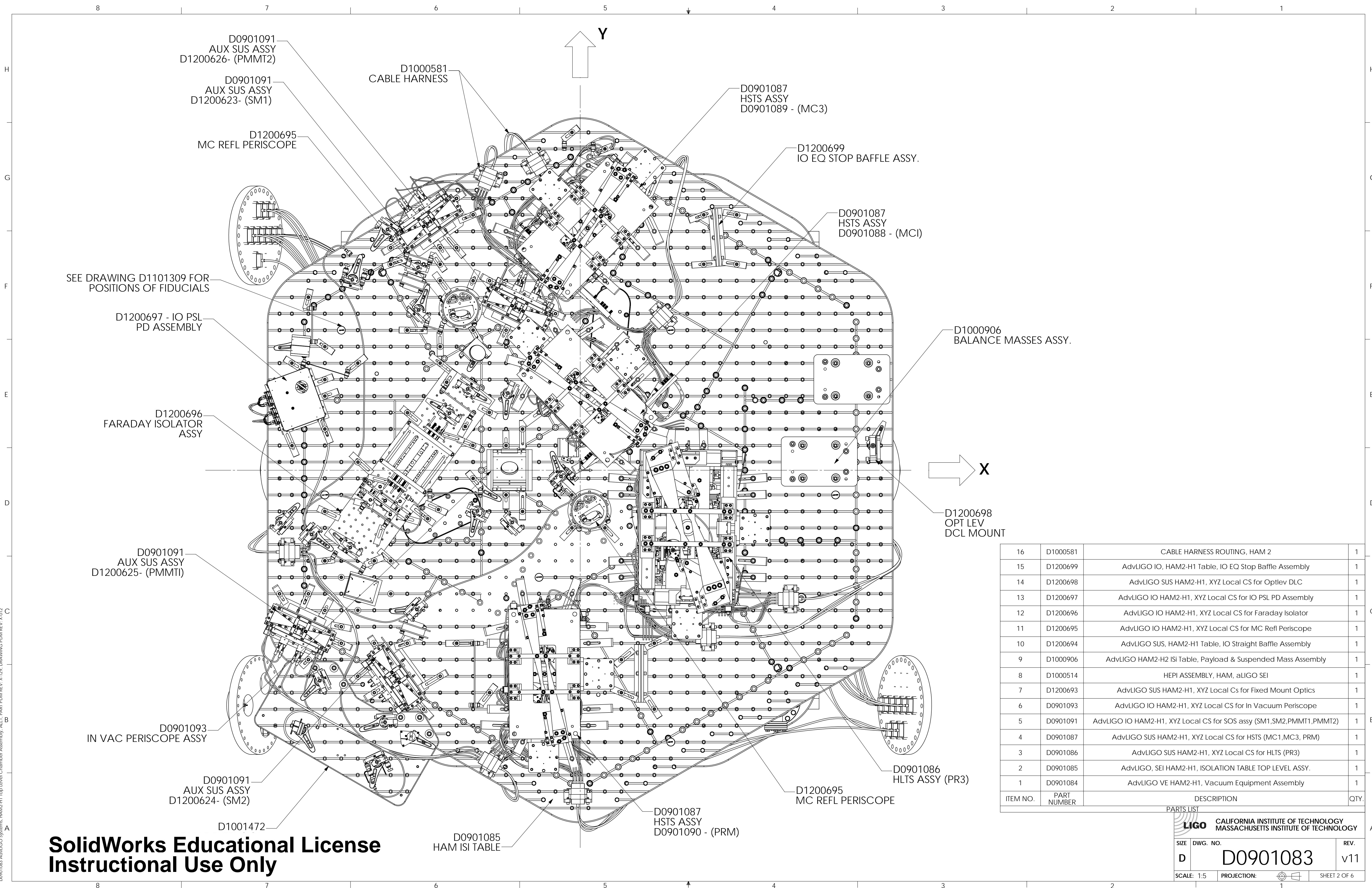
DESIGNER: ED CHAVEZ DATE: 27 JUL 2009
DRAFTER: ED CHAVEZ DATE: 27 JUL 2009
CHECKER: C. TORRIE DATE: 27 JUL 2011
APPROVAL: SEE DCC

SIZE: D DWG. NO.: D0901083 REV.: v11

SCALE: 1:16 PROJECTION: SHEET 1 OF 6

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D0901083-ASU-LIGO Systems: HAM2-H1 Top Level Chamber Assembly: ALL PART PDM REV: X: 129: DRAWING PDM REV: X: 012



SEE DRAWING D1101309 FOR POSITIONS OF FIDUCIALS

D0901091
AUX SUS ASSY
D1200626- (PMMT2)

D0901091
AUX SUS ASSY
D1200623- (SM1)

D1200695
MC REFL PERISCOPE

D1000581
CABLE HARNESS

D0901087
HSTS ASSY
D0901089 - (MC3)

D1200699
IO EQ STOP BAFFLE ASSY.

D0901087
HSTS ASSY
D0901088 - (MC1)

D1000906
BALANCE MASSES ASSY.

D1200697 - IO PSL
PD ASSEMBLY

D1200696
FARADAY ISOLATOR
ASSY

X

D1200698
OPT LEV
DCL MOUNT

D0901091
AUX SUS ASSY
D1200625- (PMMT1)

D0901093
IN VAC PERISCOPE ASSY

D0901091
AUX SUS ASSY
D1200624- (SM2)

D1001472

D0901085
HAM ISI TABLE

D0901087
HSTS ASSY
D0901090 - (PRM)

D1200695
MC REFL PERISCOPE

D0901086
HLTS ASSY (PR3)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
16	D1000581	CABLE HARNESS ROUTING, HAM 2	1
15	D1200699	AdvLIGO IO, HAM2-H1 Table, IO EQ Stop Baffle Assembly	1
14	D1200698	AdvLIGO SUS HAM2-H1, XYZ Local CS for Optlev DLC	1
13	D1200697	AdvLIGO IO HAM2-H1, XYZ Local CS for IO PSL PD Assembly	1
12	D1200696	AdvLIGO IO HAM2-H1, XYZ Local CS for Faraday Isolator	1
11	D1200695	AdvLIGO IO HAM2-H1, XYZ Local CS for MC Refl Periscope	1
10	D1200694	AdvLIGO SUS, HAM2-H1 Table, IO Straight Baffle Assembly	1
9	D1000906	AdvLIGO HAM2-H2 ISI Table, Payload & Suspended Mass Assembly	1
8	D1000514	HEPI ASSEMBLY, HAM, aLIGO SEI	1
7	D1200693	AdvLIGO SUS HAM2-H1, XYZ Local Cs for Fixed Mount Optics	1
6	D0901093	AdvLIGO IO HAM2-H1, XYZ Local CS for In Vacuum Periscope	1
5	D0901091	AdvLIGO IO HAM2-H1, XYZ Local CS for SOS assy (SM1,SM2,PMMT1,PMMT2)	1
4	D0901087	AdvLIGO SUS HAM2-H1, XYZ Local CS for HSTS (MC1,MC3, PRM)	1
3	D0901086	AdvLIGO SUS HAM2-H1, XYZ Local CS for HLTS (PR3)	1
2	D0901085	AdvLIGO, SEI HAM2-H1, ISOLATION TABLE TOP LEVEL ASSY.	1
1	D0901084	AdvLIGO VE HAM2-H1, Vacuum Equipment Assembly	1

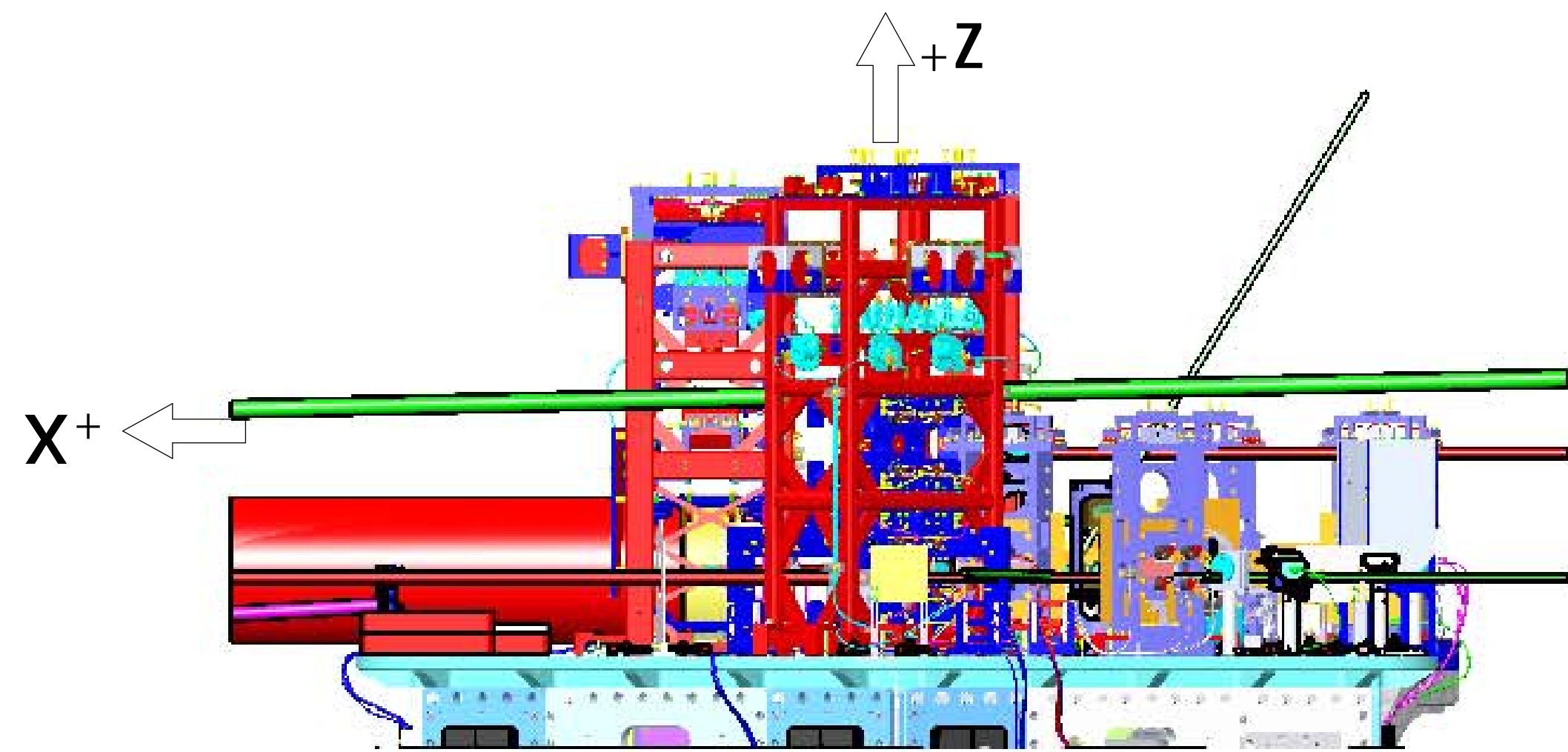
LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SIZE DWG. NO. REV.
D D0901083 v11

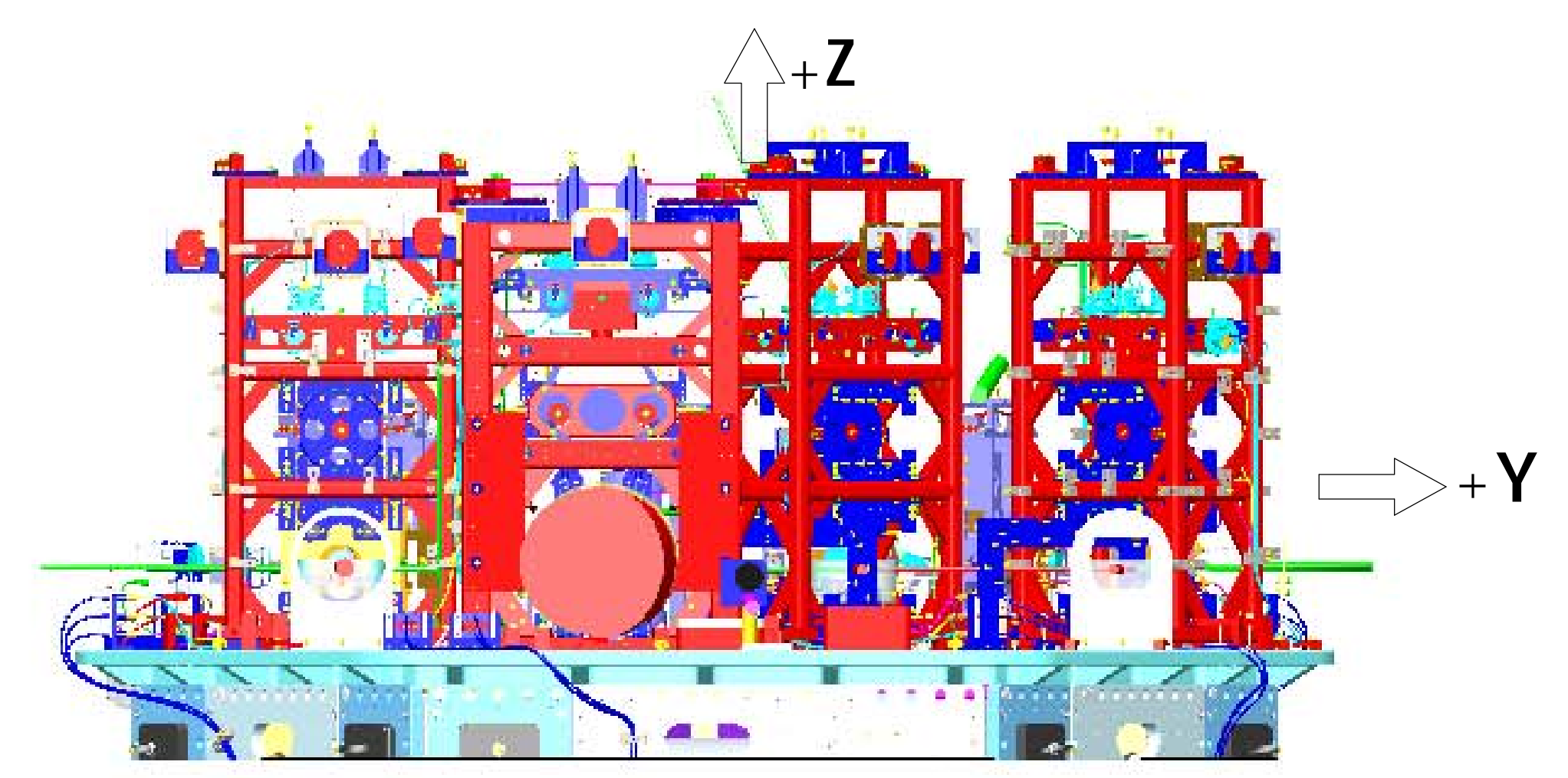
SCALE: 1:5 PROJECTION: SHEET 2 OF 6

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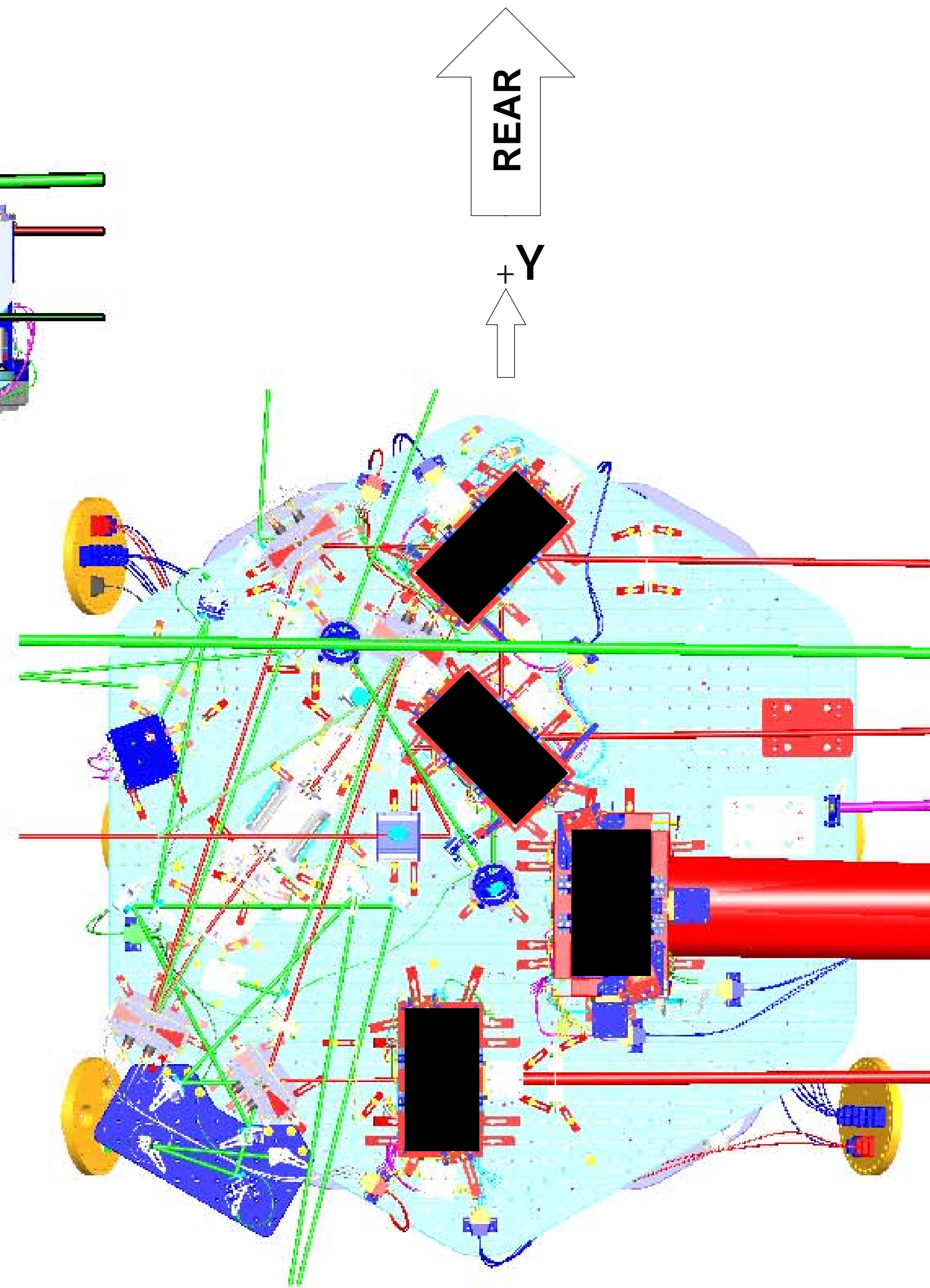
D0901083 AdvLIGO Systems, HAM2-H1 Top Level Chamber Assembly, ALL PART PDM REV. X-129, DRAWING PDM REV. X-012



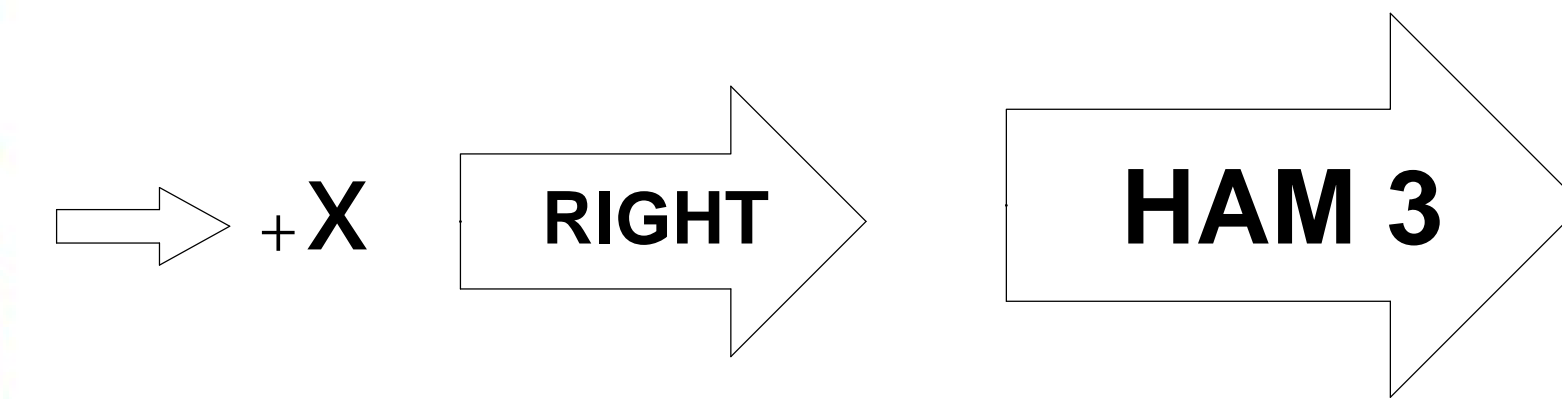
REAR VIEW
(ROTATED 180 DEGREES CCW)



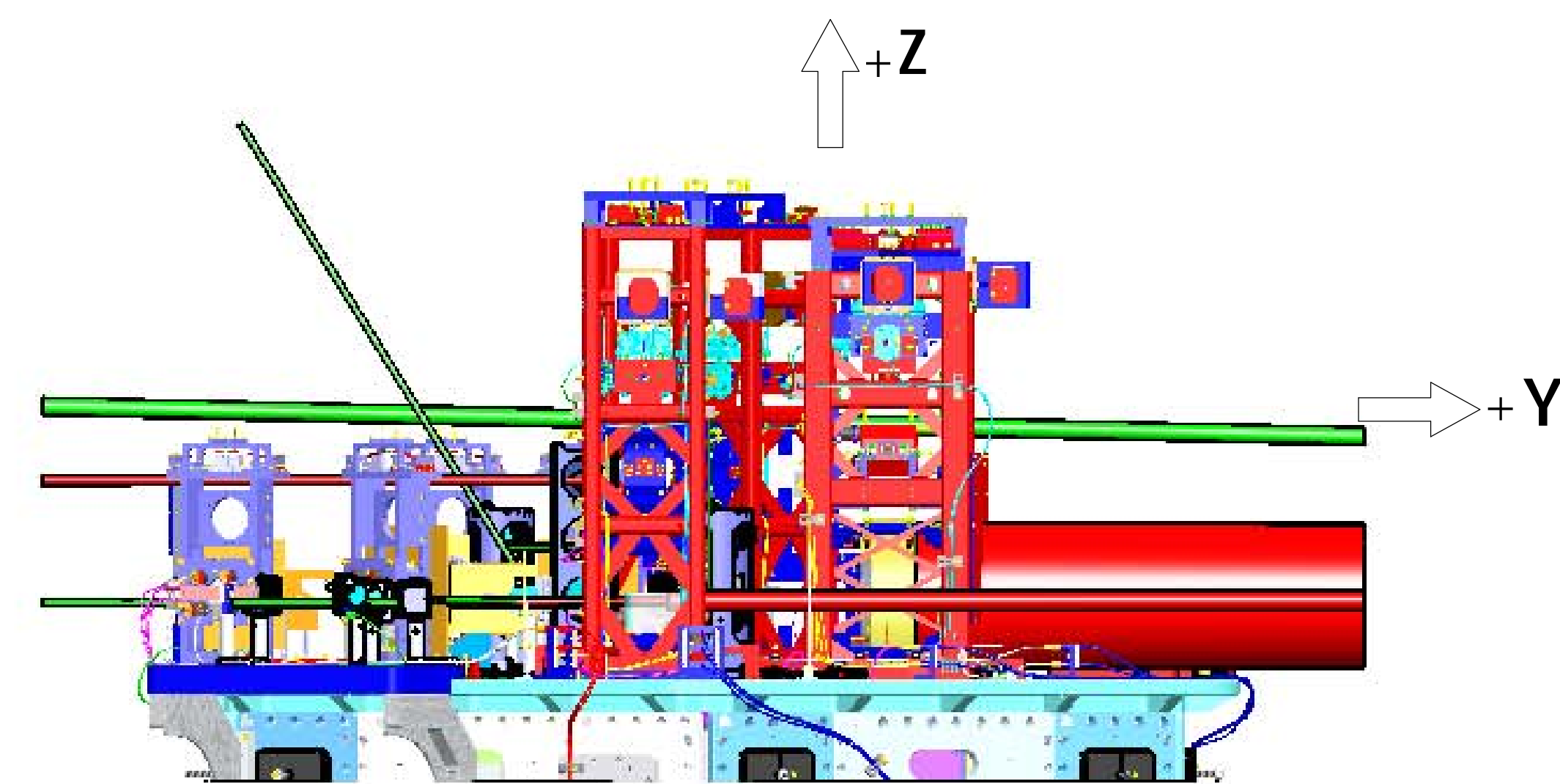
RIGHT SIDE VIEW
(ROTATED 180 DEGREES CCW)



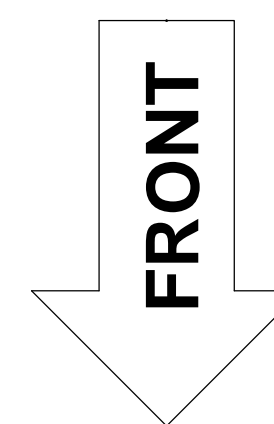
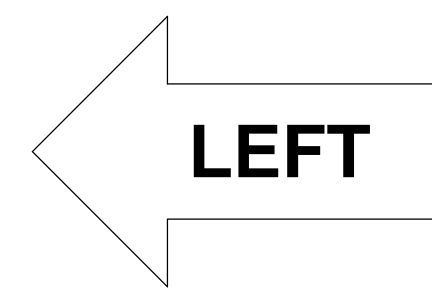
TOP VIEW



LEFT SIDE VIEW
(ROTATED 90 DEGREES CCW)



FRONT VIEW

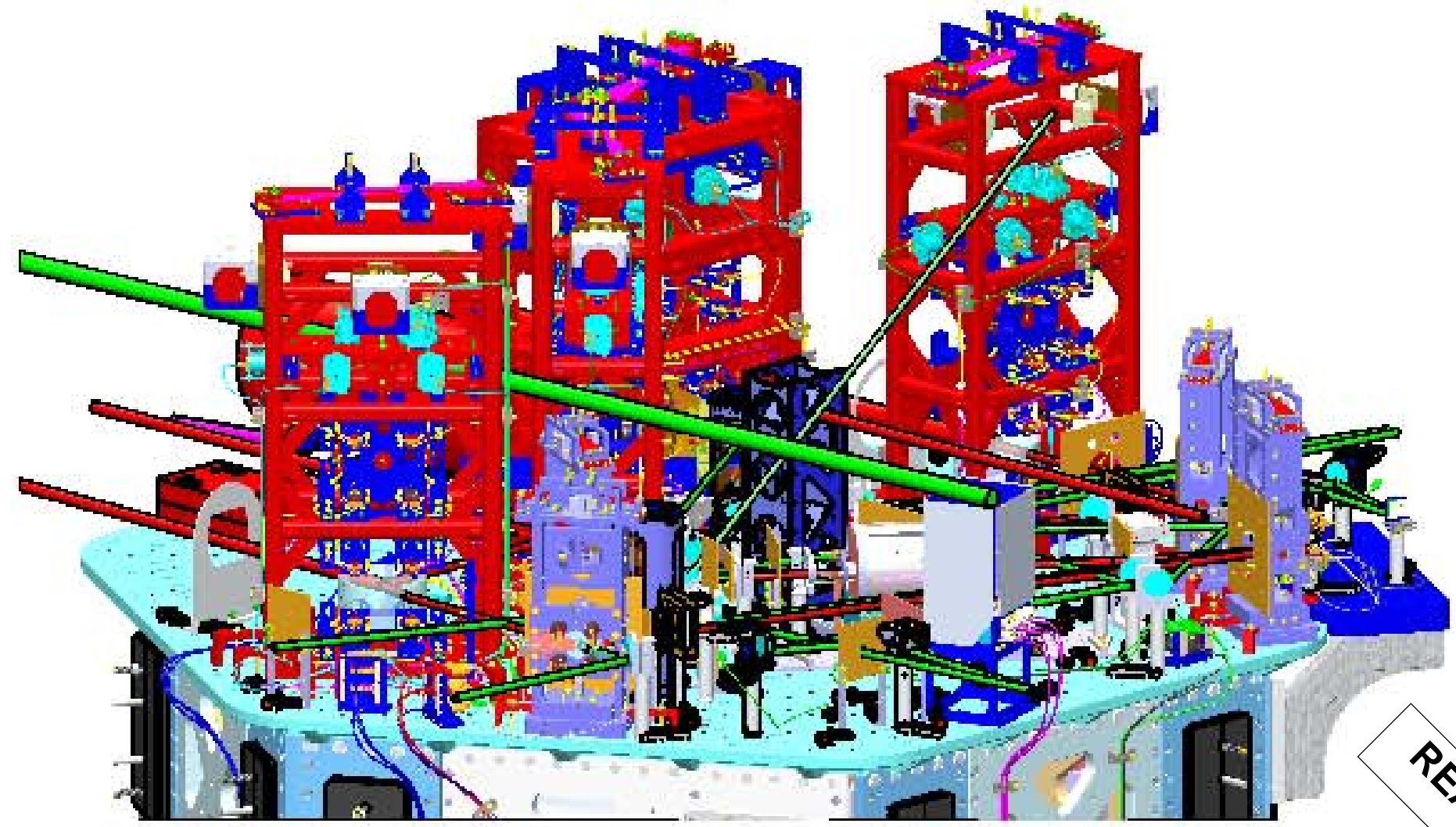


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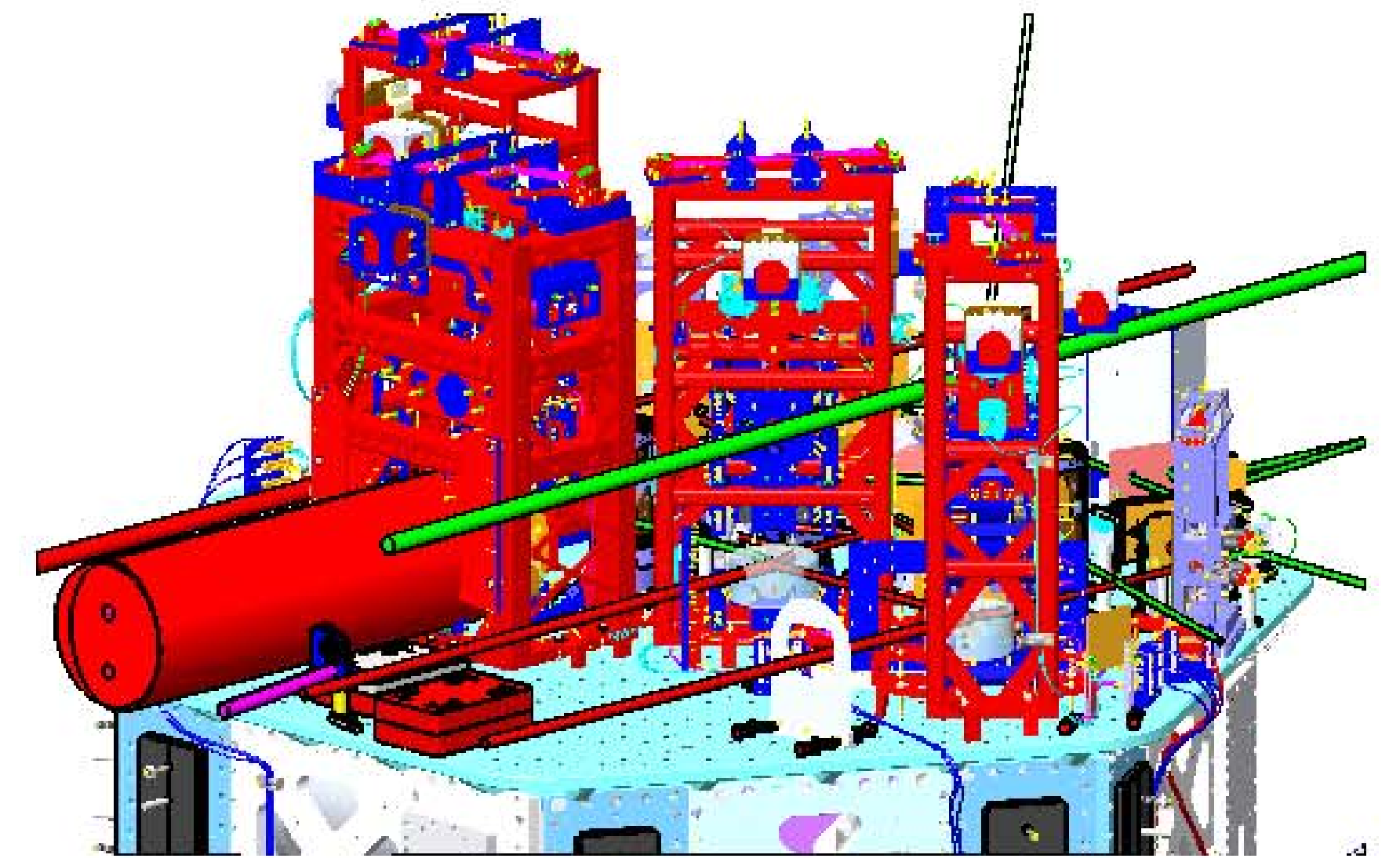
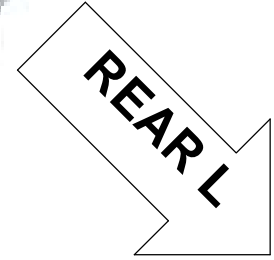
LASER BEAMS - ORTHO VIEWS

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE: D	DWG. NO.: D0901083
SCALE: 1:8	REV.: v11
PROJECTION:	SHEET 3 OF 6

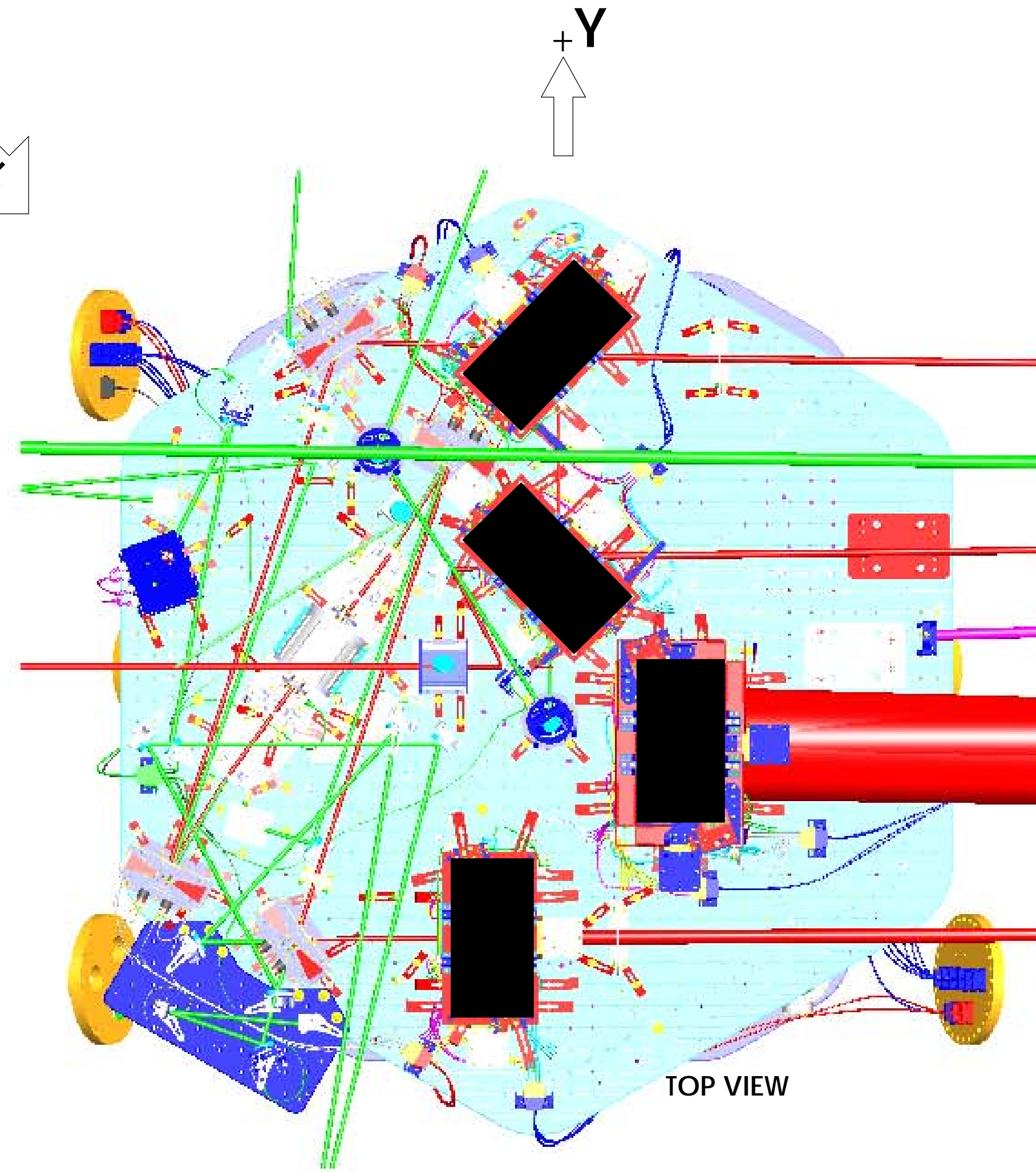
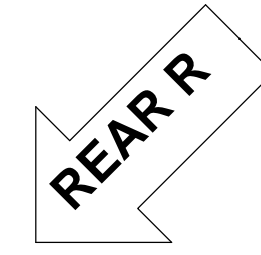
D:\0901083_A04\LIGO Systems_HAM2-H1_Top Level Chamber Assembly_ALL PART PDM REV-X 129_DRAWING PDM REV.X.012



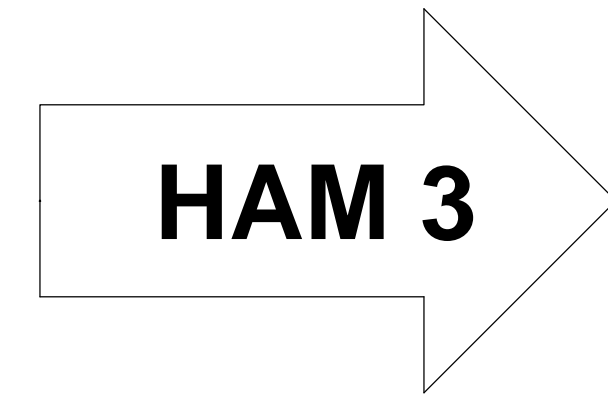
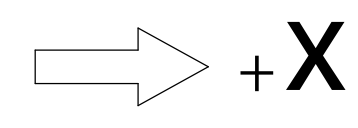
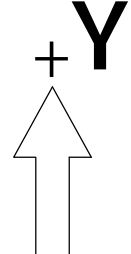
ISO REAR - LEFT



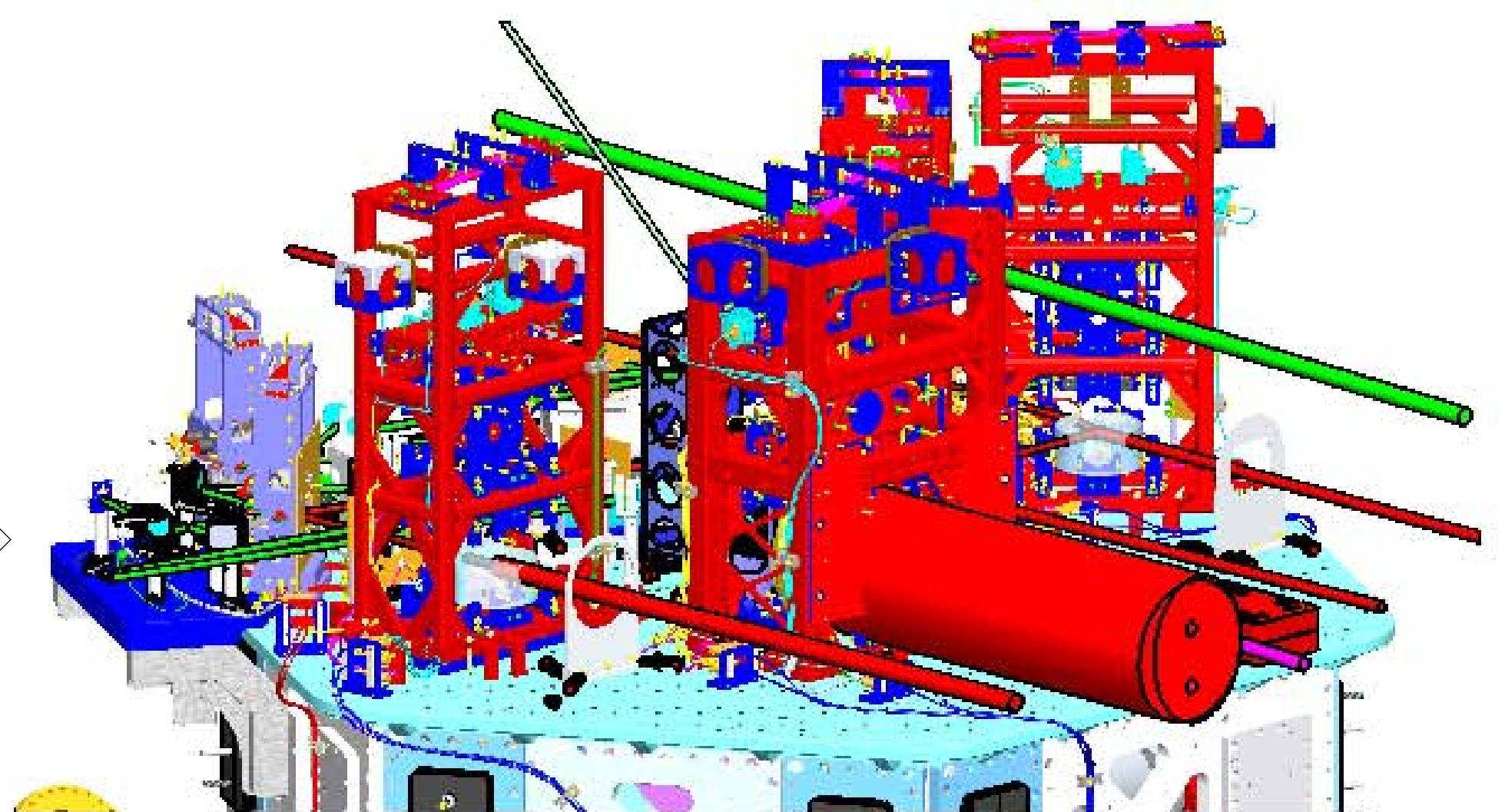
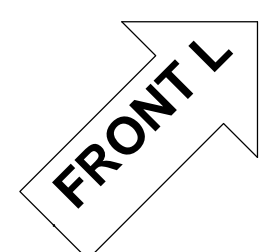
ISO REAR - RIGHT



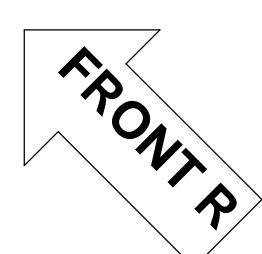
TOP VIEW



ISO FRONT - LEFT



ISO FRONT - RIGHT

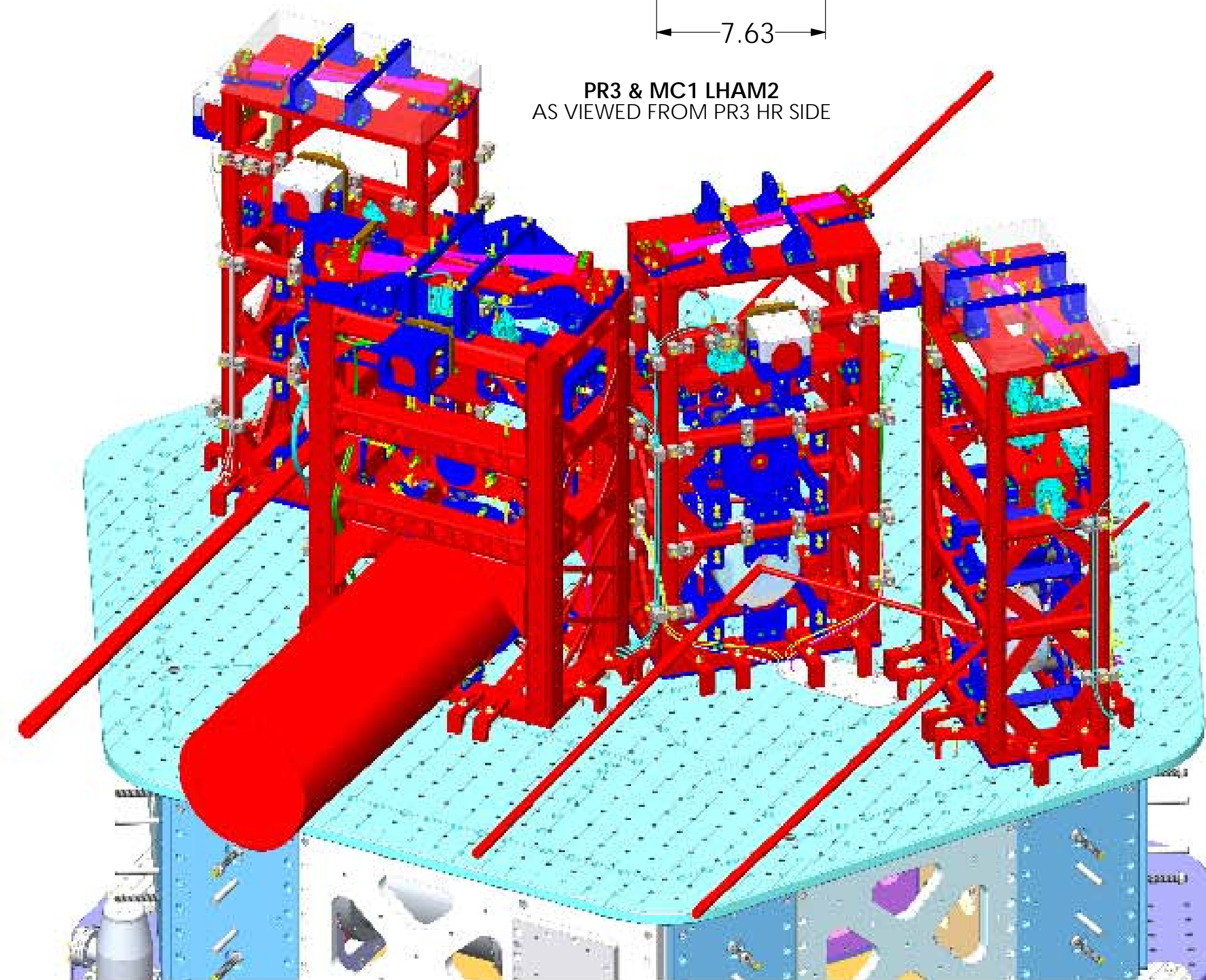
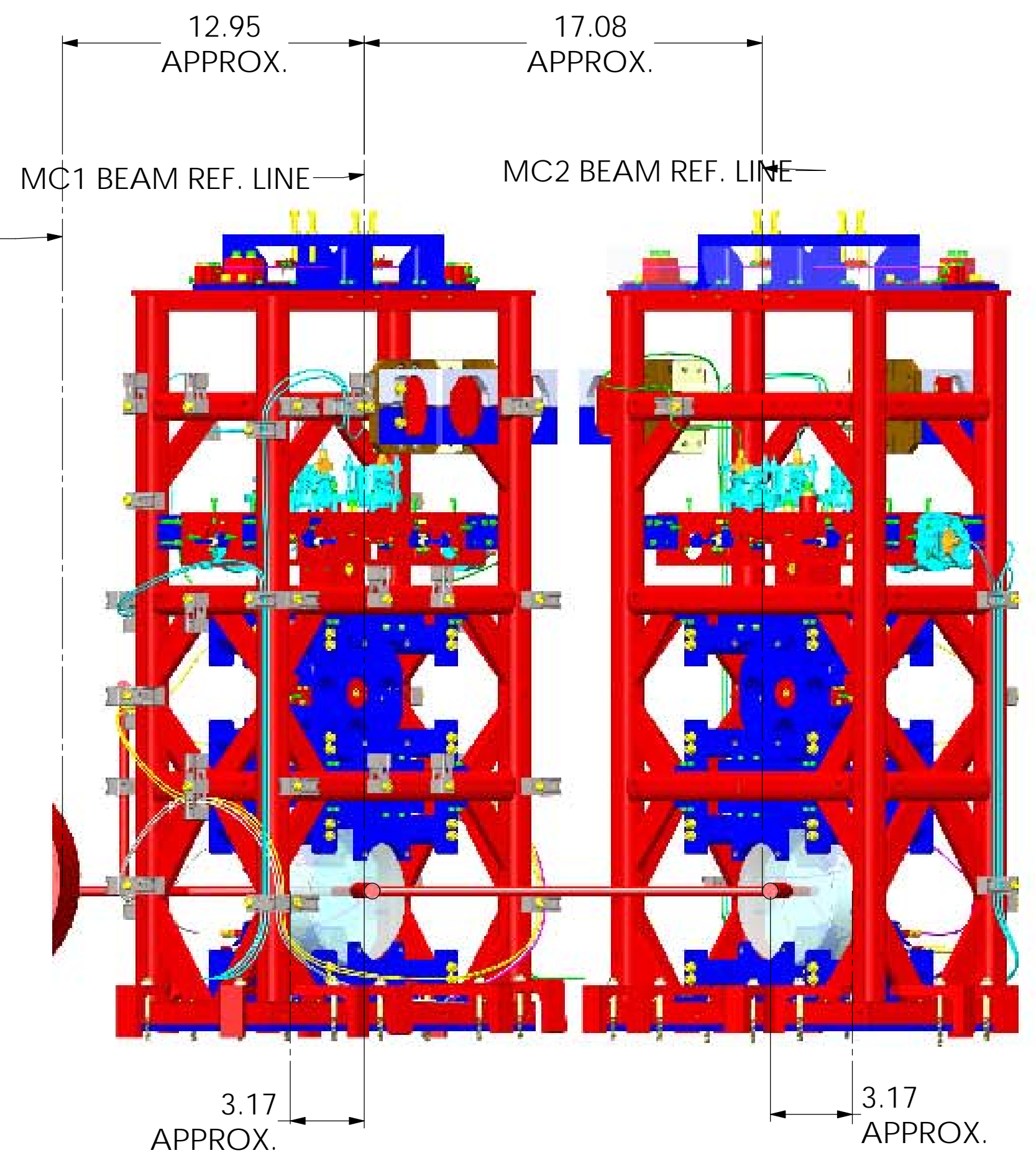
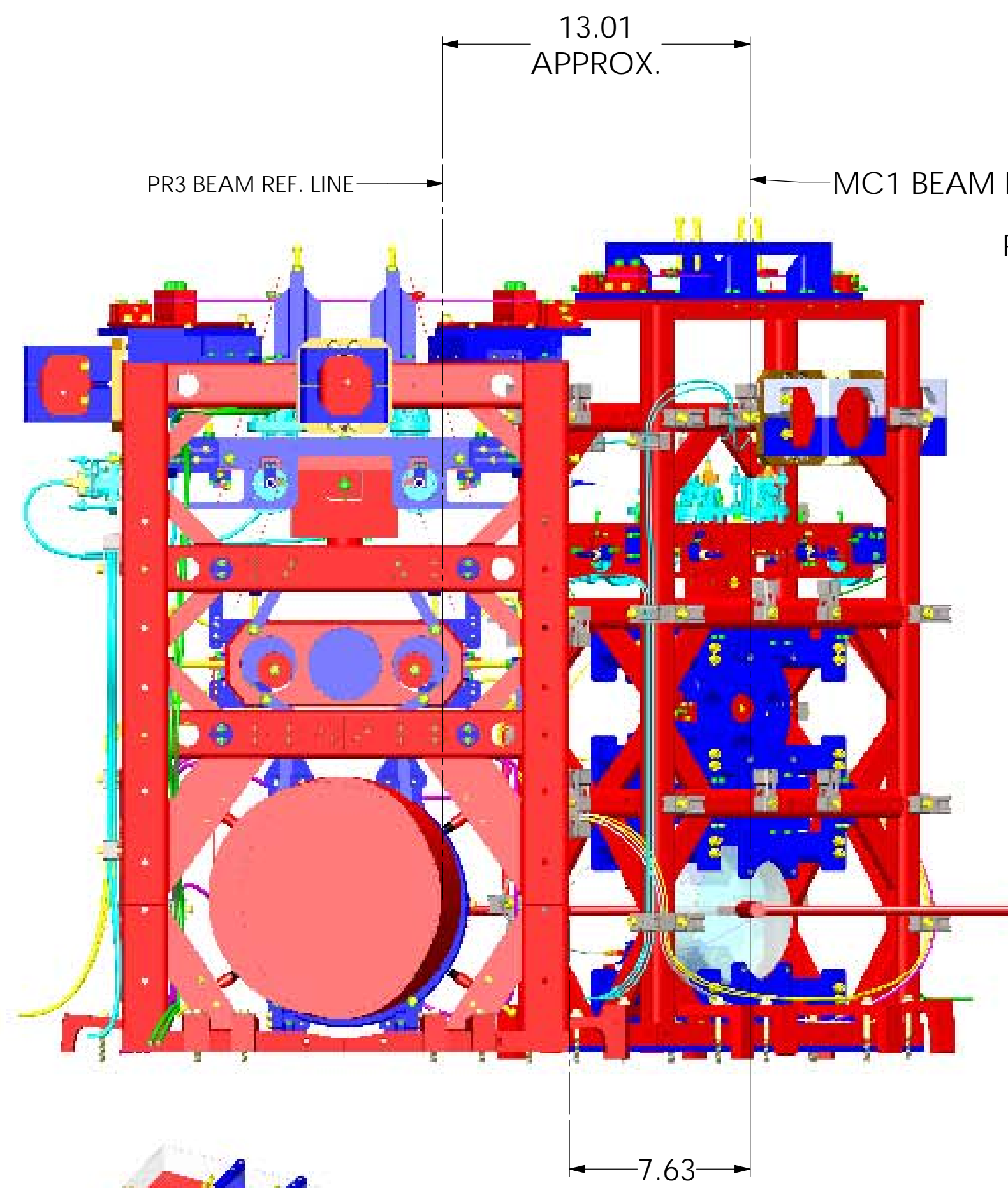
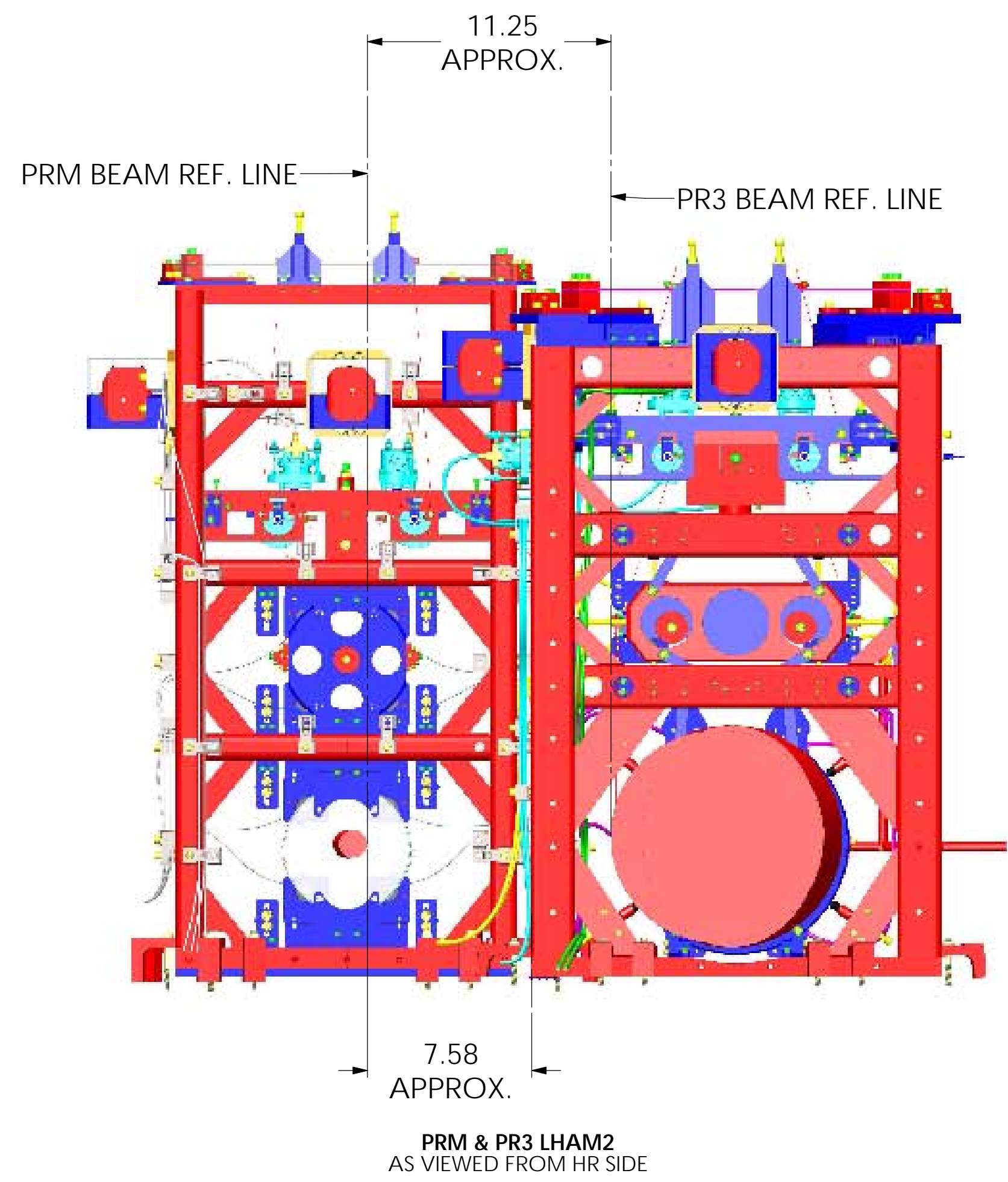


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LASER BEAMS - ISO VIEWS

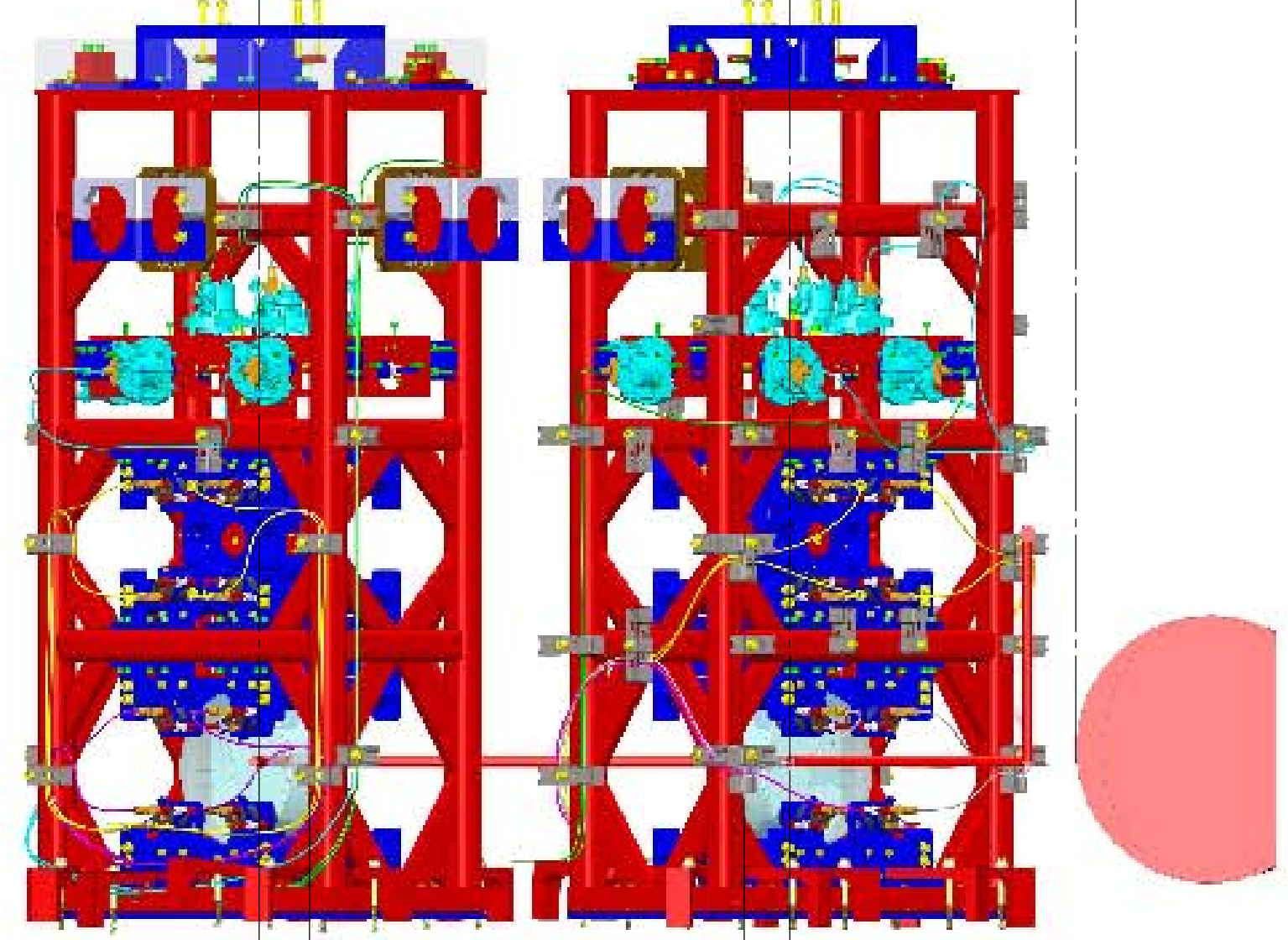
LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE: D	DWG. NO.: D0901083
SCALE: 1:8	REV. v11
PROJECTION:	SHEET 4 OF 6

D0901083-ASU-LIGO Systems - HAM2-H1 Top Level Chamber Assembly - ALL PART PDM REV. X 129 - DRAWING PDM REV. X 012



20.32 APPROX.
33.75 APPROX.

MC3 BEAM REF. LINE
MC1 BEAM REF. LINE
PR3 BEAM REF. LINE



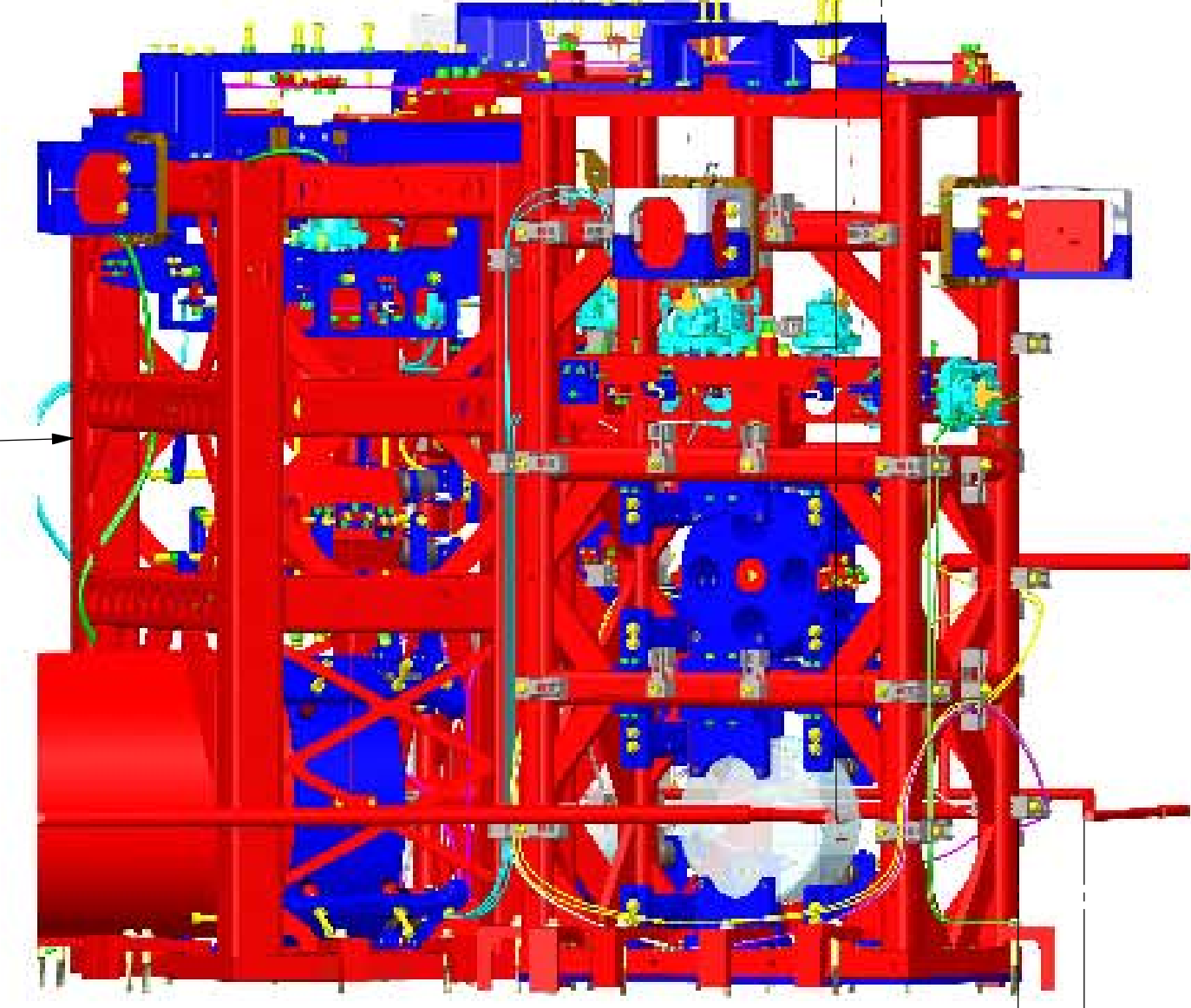
1.93 APPROX.
1.75 APPROX.

MC3 & MC1 LHAM2
AS VIEWED FROM AR SIDE

2.54 APPROX.

MC3 BEAM REF. LINE

PR3

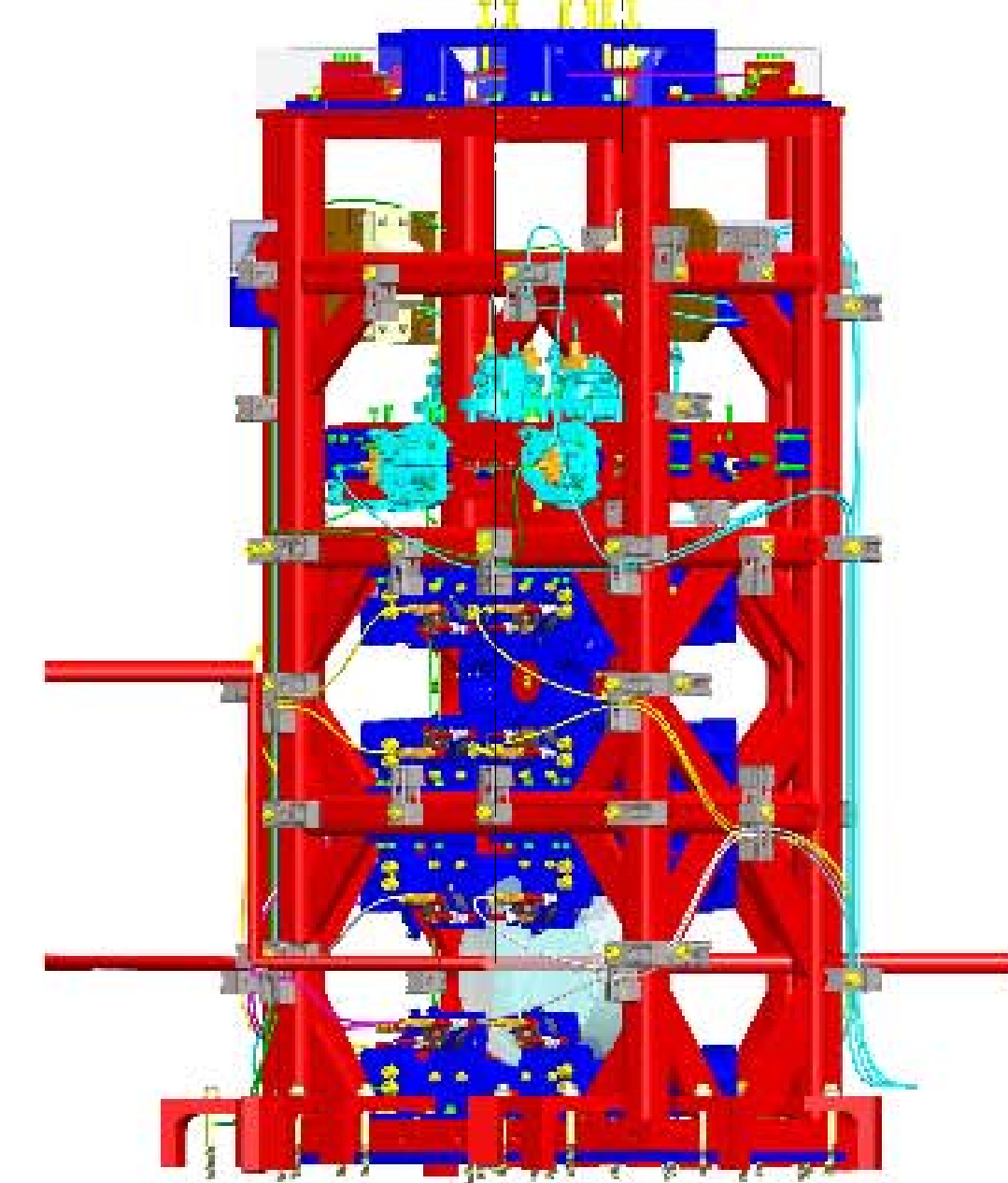


2.39 APPROX.

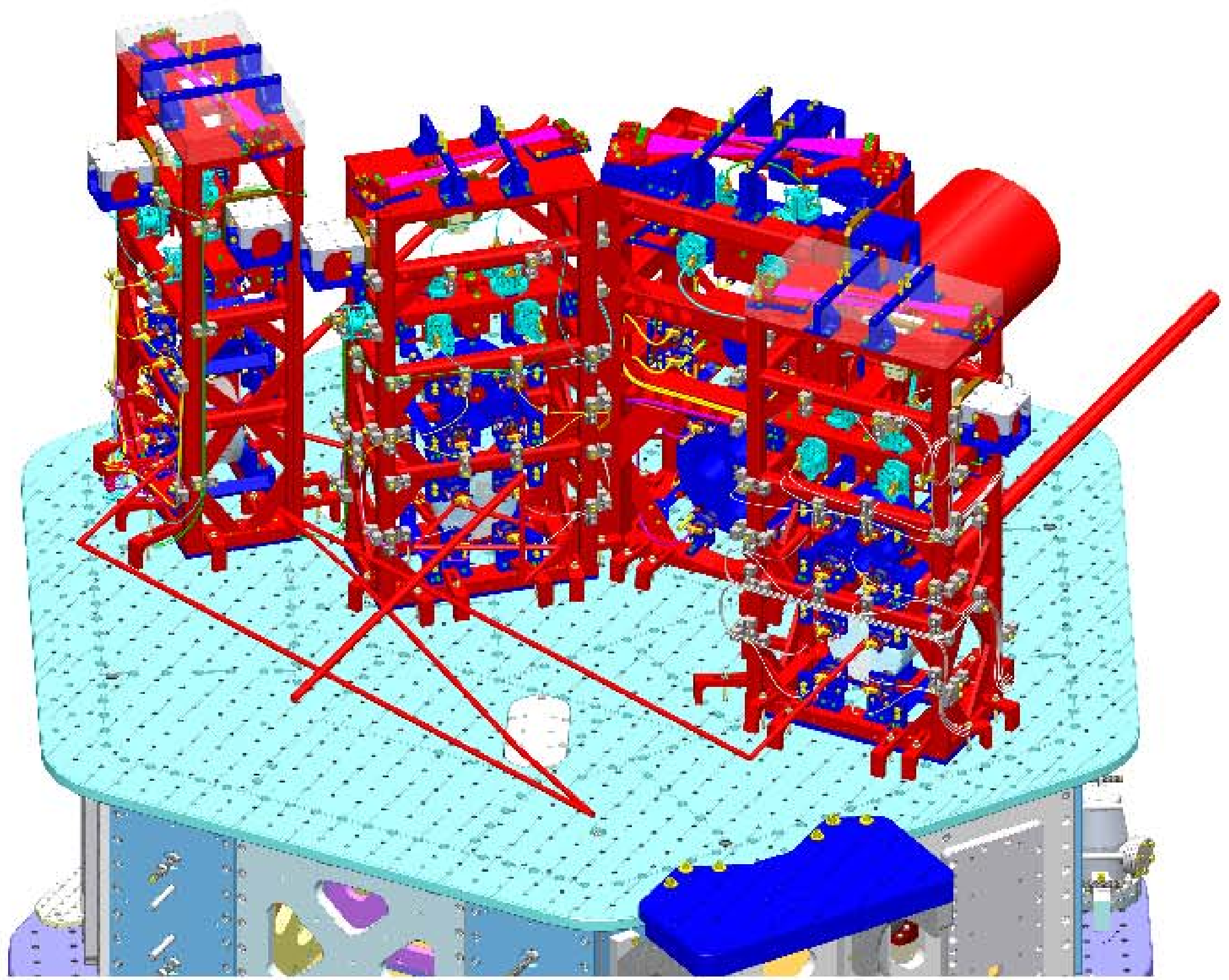
MC1 LHAM2
AS VIEWED FROM PMMT2

BEAM REF. LINE

3.78 APPROX.



MC1 LHAM2
ISO VIEW, REAR RIGHT



ISO VIEW, FRONT LEFT

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SIZE: D	DWG. NO.: D0901083
SCALE: NTS	PROJECTION:
REV: v11	SHEET 6 OF 6