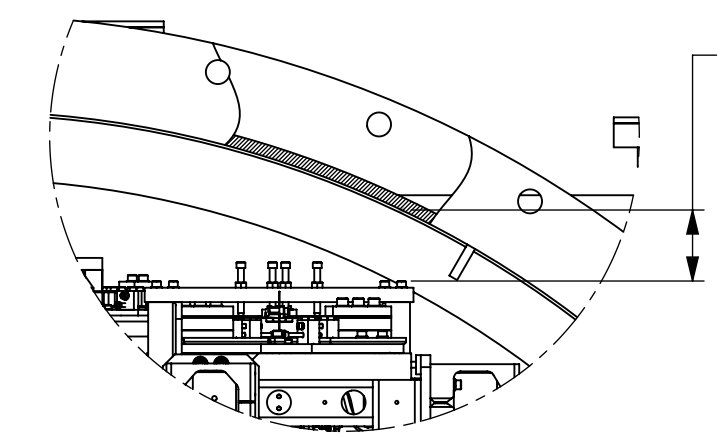


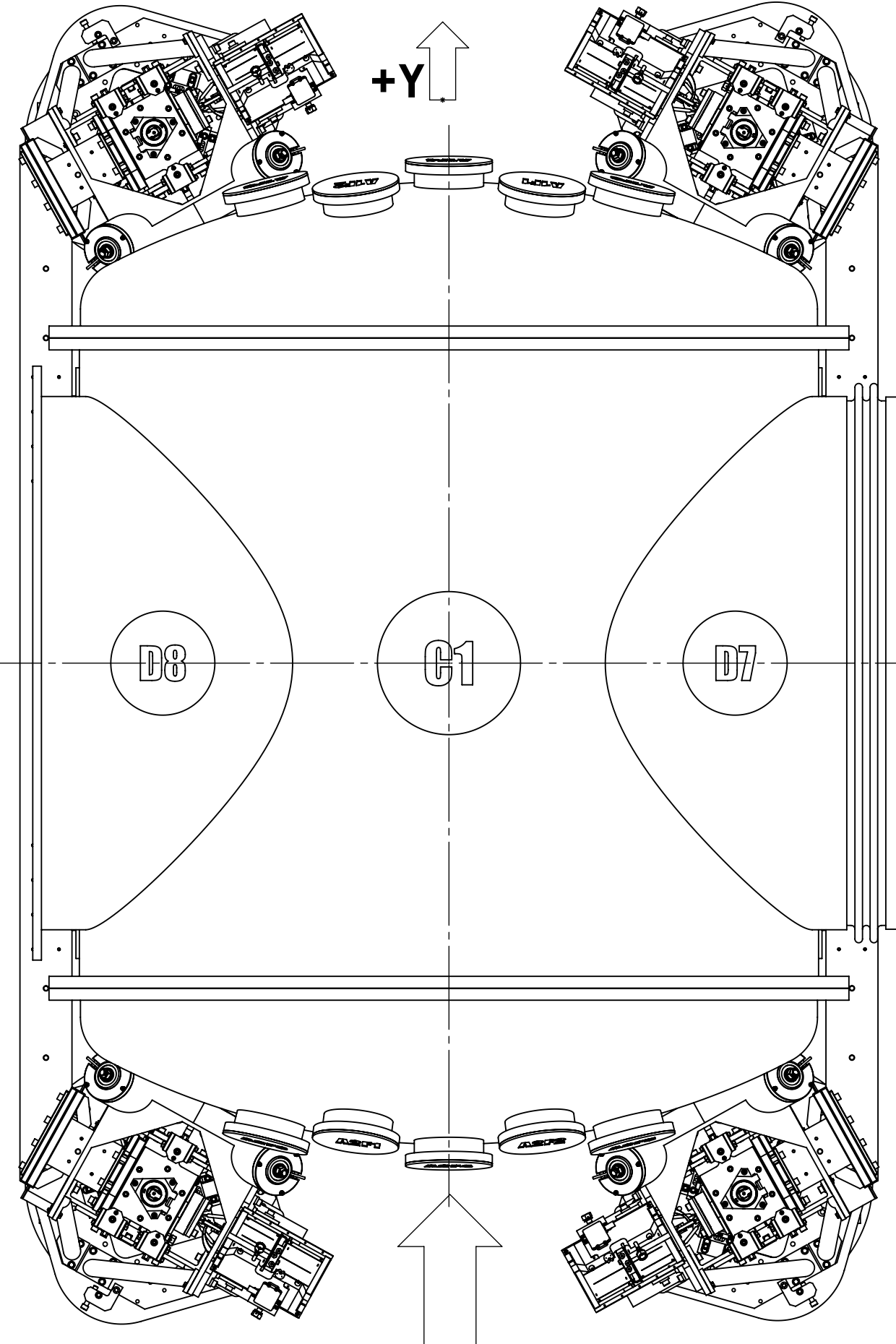
APPROX.  
3.59  
[91.1]

DETAIL A  
SCALE 1:8



APPROX.  
2.96  
[75.1]

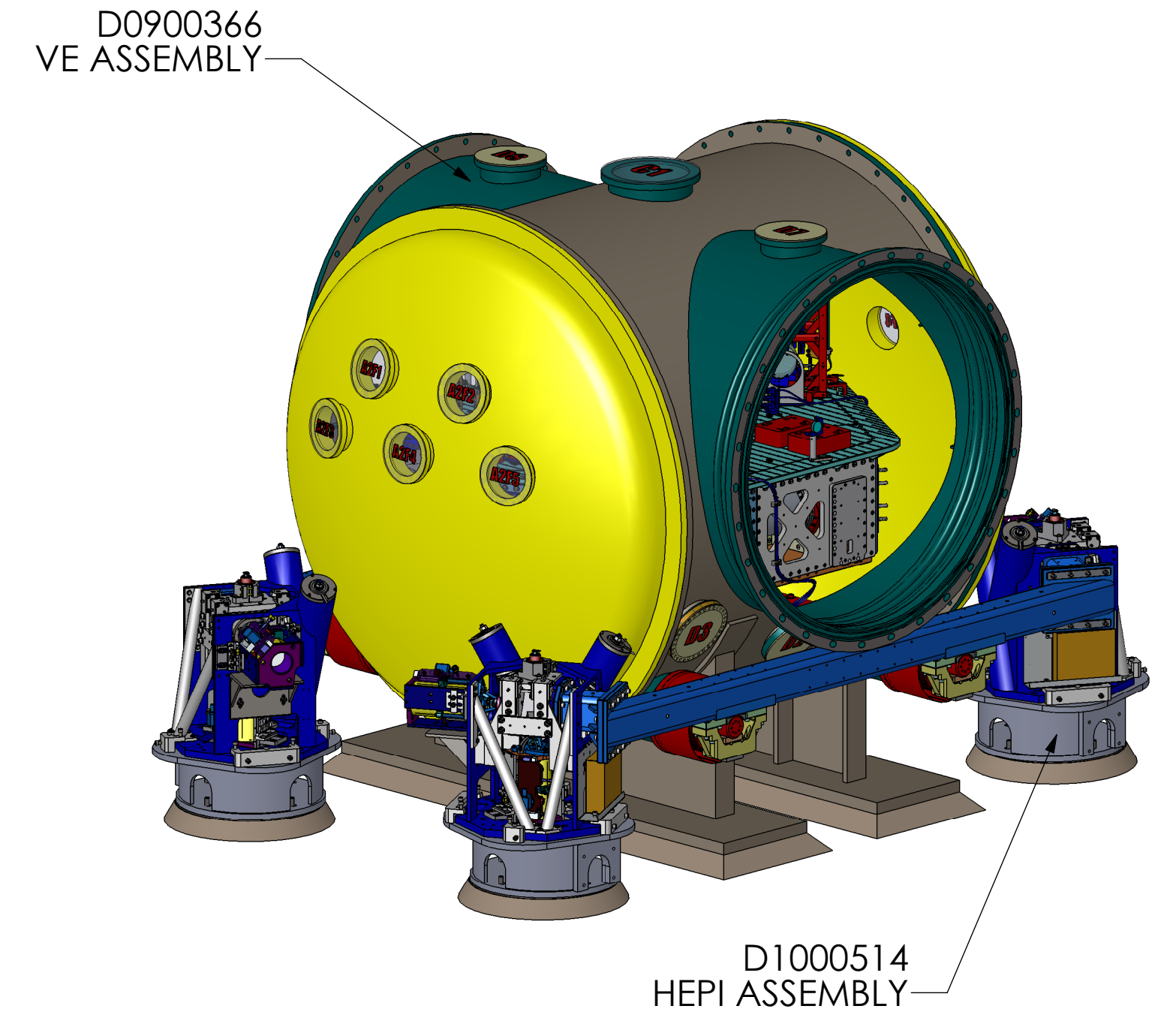
DETAIL B  
SCALE 1:8



NOZZLE "B"

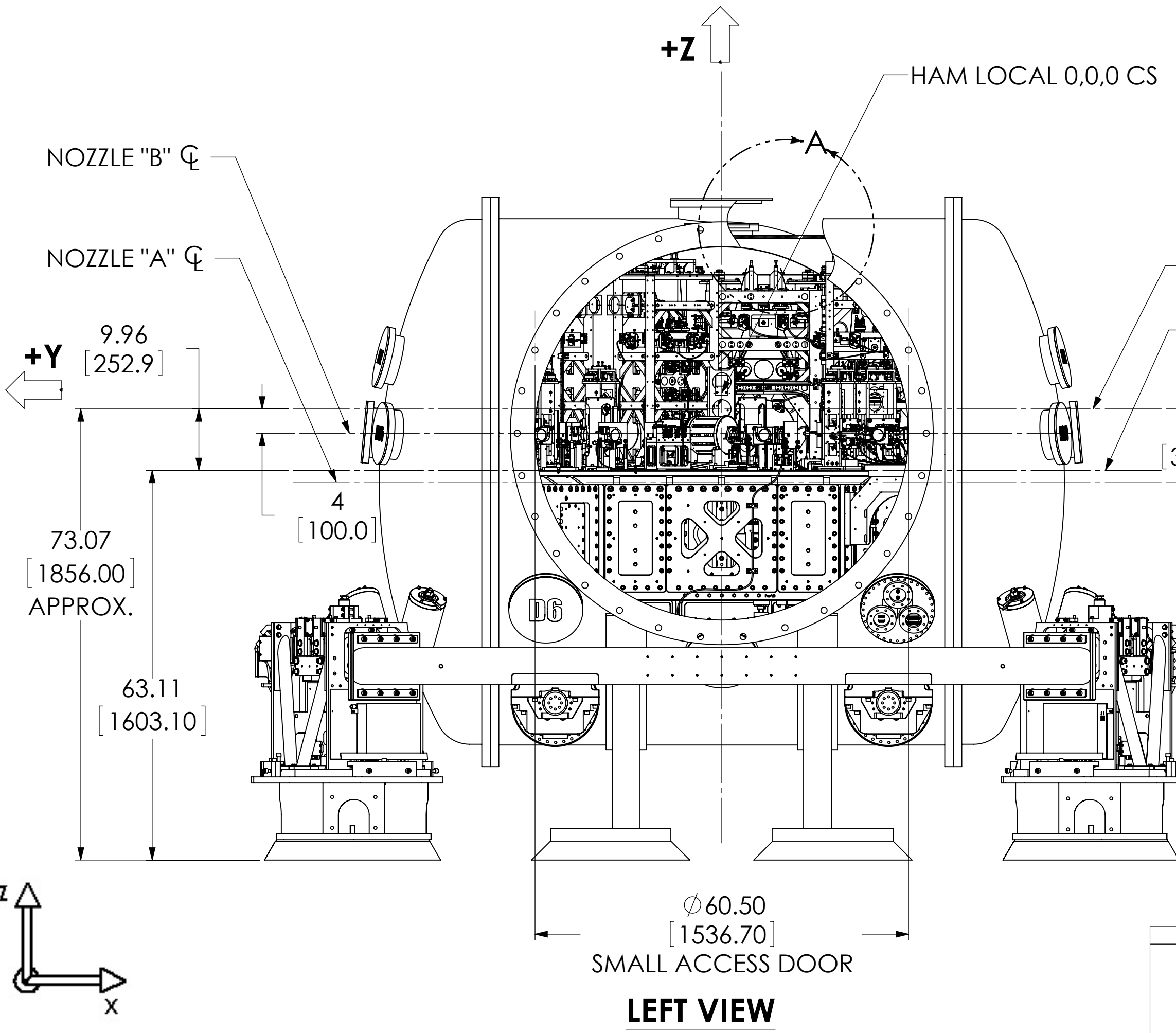
+X

NOZZLE "A"  
TOP VIEW



D0900366  
VE ASSEMBLY

D1000514  
HEPI ASSEMBLY



+Z

HAM LOCAL 0,0,0 CS

NOZZLE "B"  $\varnothing$

NOZZLE "A"  $\varnothing$

+Y

73.07  
[1856.00]  
APPROX.

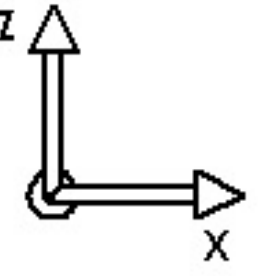
63.11  
[1603.10]

4  
[100.0]

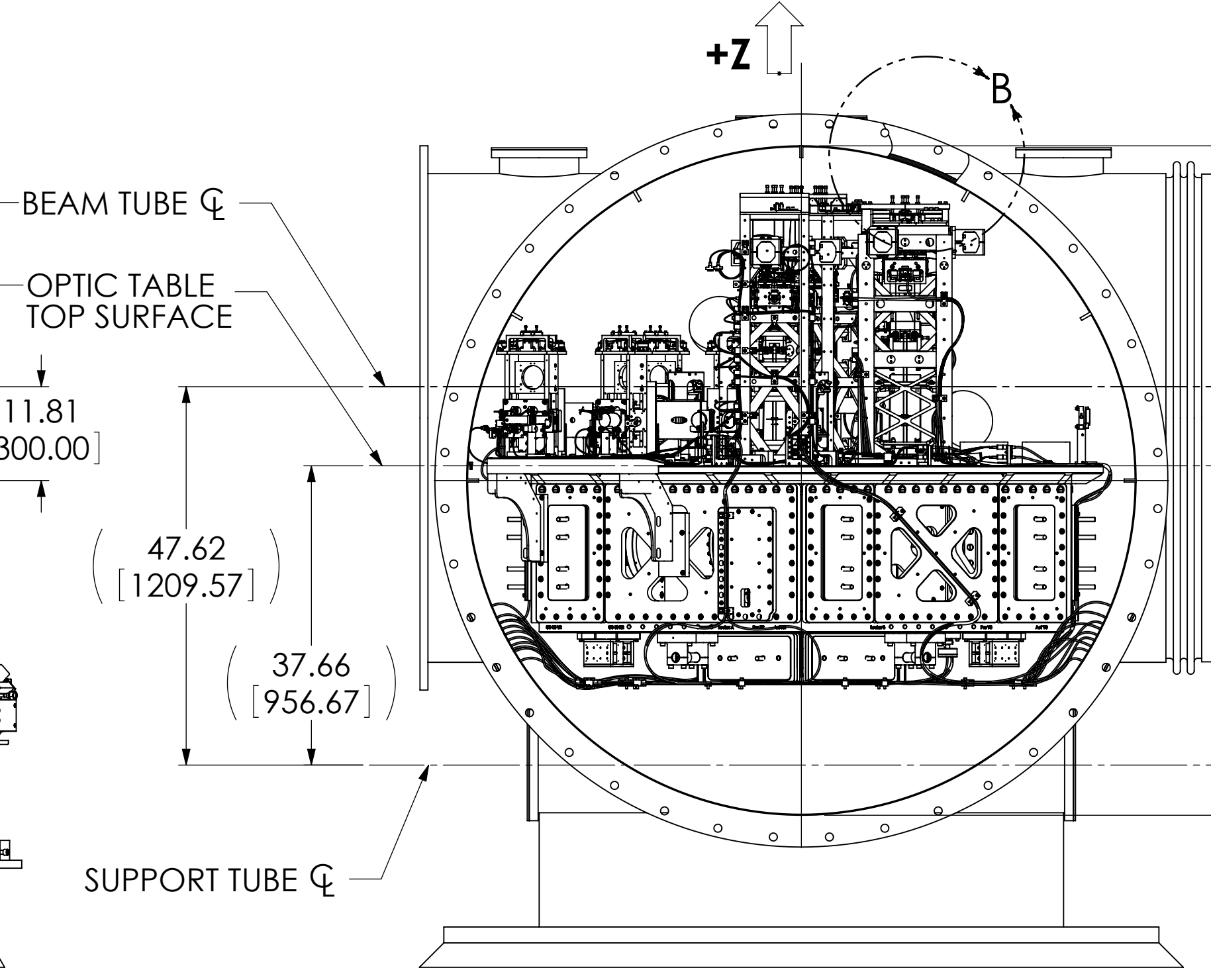
D6

Ø60.50  
[1536.70]  
SMALL ACCESS DOOR

LEFT VIEW



Global Axes  
Front View



+Z

BEAM TUBE  $\varnothing$

OPTIC TABLE  
TOP SURFACE

11.81  
[300.00]

47.62  
[1209.57]

37.66  
[956.67]

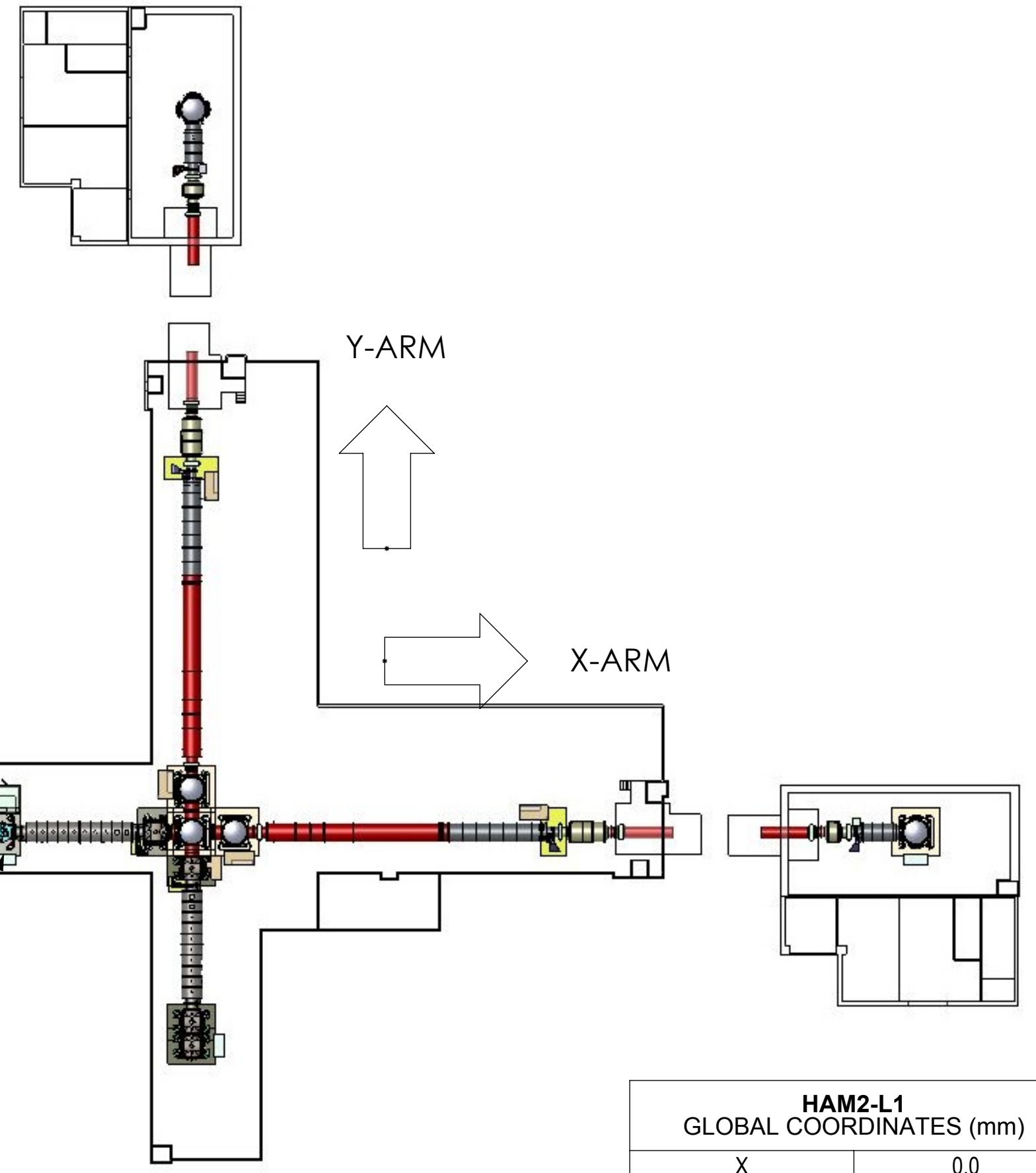
SUPPORT TUBE  $\varnothing$

FRONT VIEW

84.25  
[2140.0]  
LARGE  
ACCESS  
DOOR

+X

HAM2-L1



Y-ARM

X-ARM

HAM2-L1 GLOBAL COORDINATES (mm)	
X	0.0
Y	-20122.0
Z	0.0

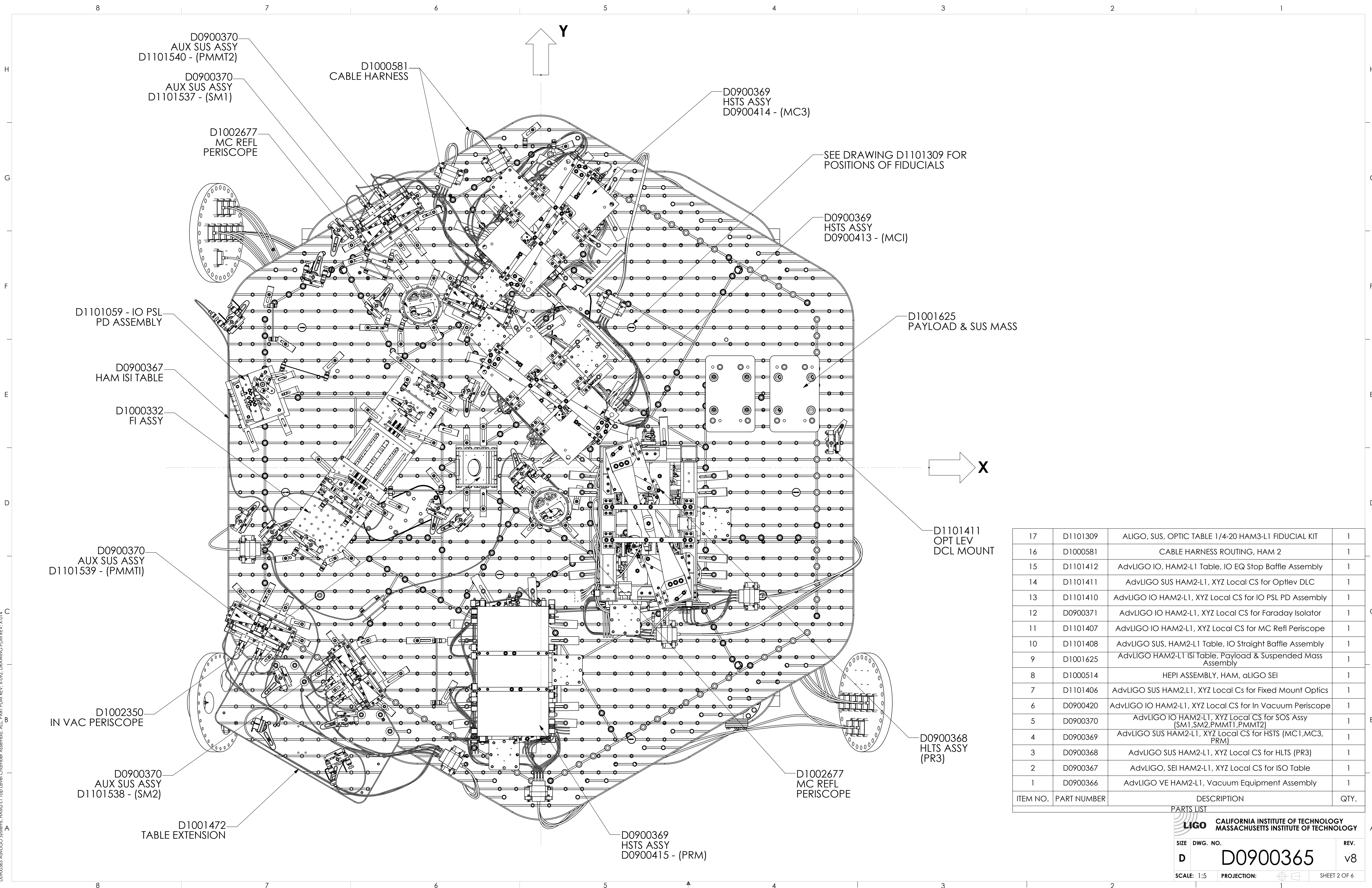
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

MATERIAL	N/A	FINISH	N/A $\mu$ inch
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CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SYSTEM	ADVANCED LIGO
SUB-SYSTEM	SUS
NEXT ASSY	

PART NAME HAM2-L1 TOP LEVEL CHAMBER ASSEMBLY, FULLY DEFINED			
DESIGNER	ED CHAVEZ	DATE	27 JUL 2009
DRAFTER	C. TORRIE	DATE	27 JUL 2011
CHECKER	SEE DCC	DATE	
APPROVAL		DATE	
SIZE	D	DWG. NO.	D0900365
REV.	v8	SCALE:	1:16
		PROJECTION:	
			SHEET 1 OF 6

D0900365 Adv LIGO Systems: HAM2-L1 Top Level Chamber Assembly: ALL PART PDM REV: X-072, DRAWING PDM REV: X-014



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
17	D1101309	ALIGO, SUS, OPTIC TABLE 1/4-20 HAM3-L1 FIDUCIAL KIT	1
16	D1000581	CABLE HARNESS ROUTING, HAM 2	1
15	D1101412	AdvLIGO IO, HAM2-L1 Table, IO EQ Stop Baffle Assembly	1
14	D1101411	AdvLIGO SUS HAM2-L1, XYZ Local CS for Optlev DLC	1
13	D1101410	AdvLIGO IO HAM2-L1, XYZ Local CS for IO PSL PD Assembly	1
12	D0900371	AdvLIGO IO HAM2-L1, XYZ Local CS for Faraday Isolator	1
11	D1101407	AdvLIGO IO HAM2-L1, XYZ Local CS for MC Refl Periscope	1
10	D1101408	AdvLIGO SUS, HAM2-L1 Table, IO Straight Baffle Assembly	1
9	D1001625	AdvLIGO HAM2-L1 ISI Table, Payload & Suspended Mass Assembly	1
8	D1000514	HEPI ASSEMBLY, HAM, aLIGO SEI	1
7	D1101406	AdvLIGO SUS HAM2,L1, XYZ Local Cs for Fixed Mount Optics	1
6	D0900420	AdvLIGO IO HAM2-L1, XYZ Local CS for In Vacuum Periscope	1
5	D0900370	AdvLIGO IO HAM2-L1, XYZ Local CS for SOS Assy (SM1,SM2,PMMT1,PMMT2)	1
4	D0900369	AdvLIGO SUS HAM2-L1, XYZ Local CS for HSTS (MC1,MC3,PRM)	1
3	D0900368	AdvLIGO SUS HAM2-L1, XYZ Local CS for HLTS (PR3)	1
2	D0900367	AdvLIGO, SEI HAM2-L1, XYZ Local CS for ISO Table	1
1	D0900366	AdvLIGO VE HAM2-L1, Vacuum Equipment Assembly	1

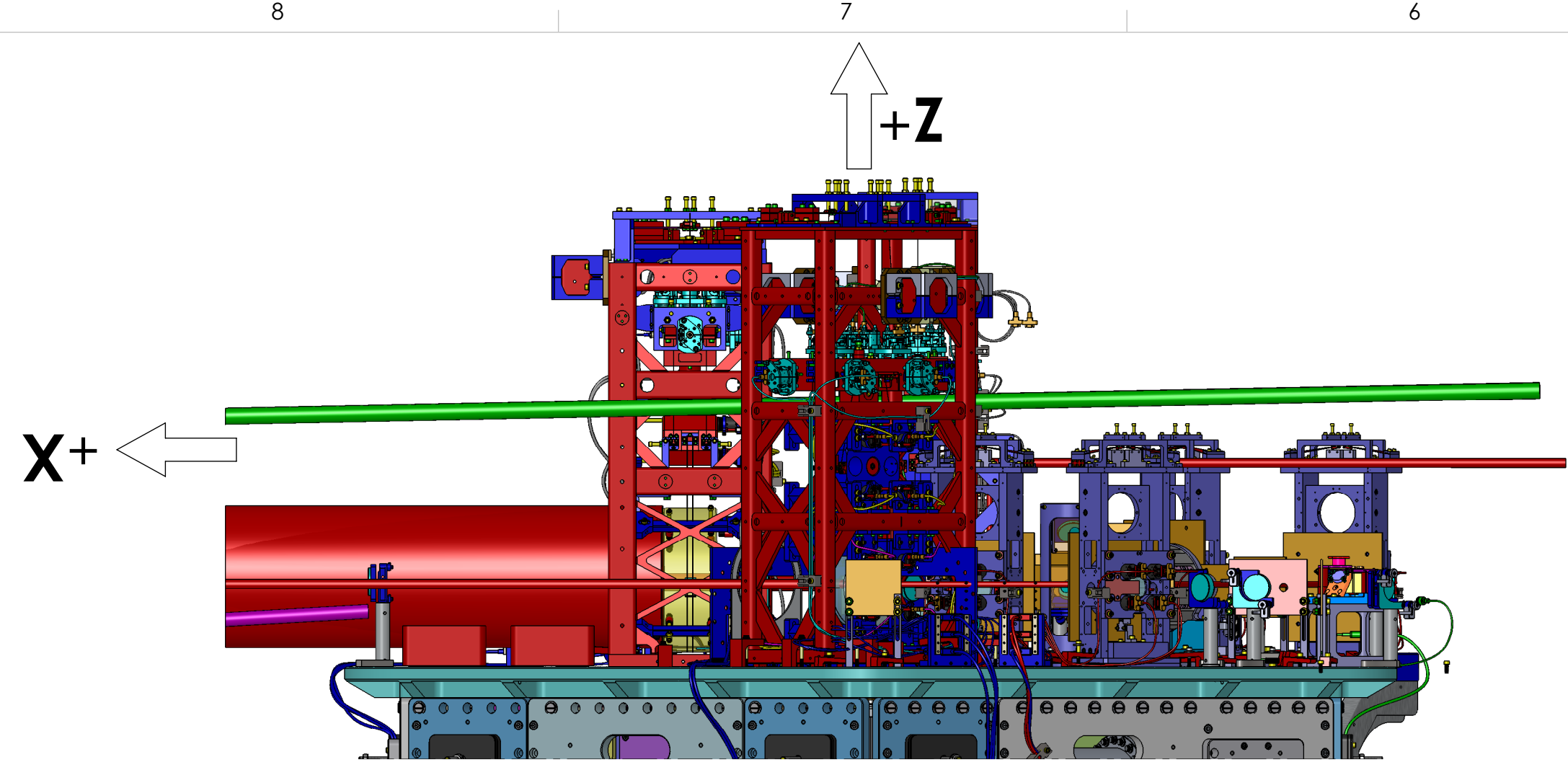
PARTS LIST

**LIGO** CALIFORNIA INSTITUTE OF TECHNOLOGY  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

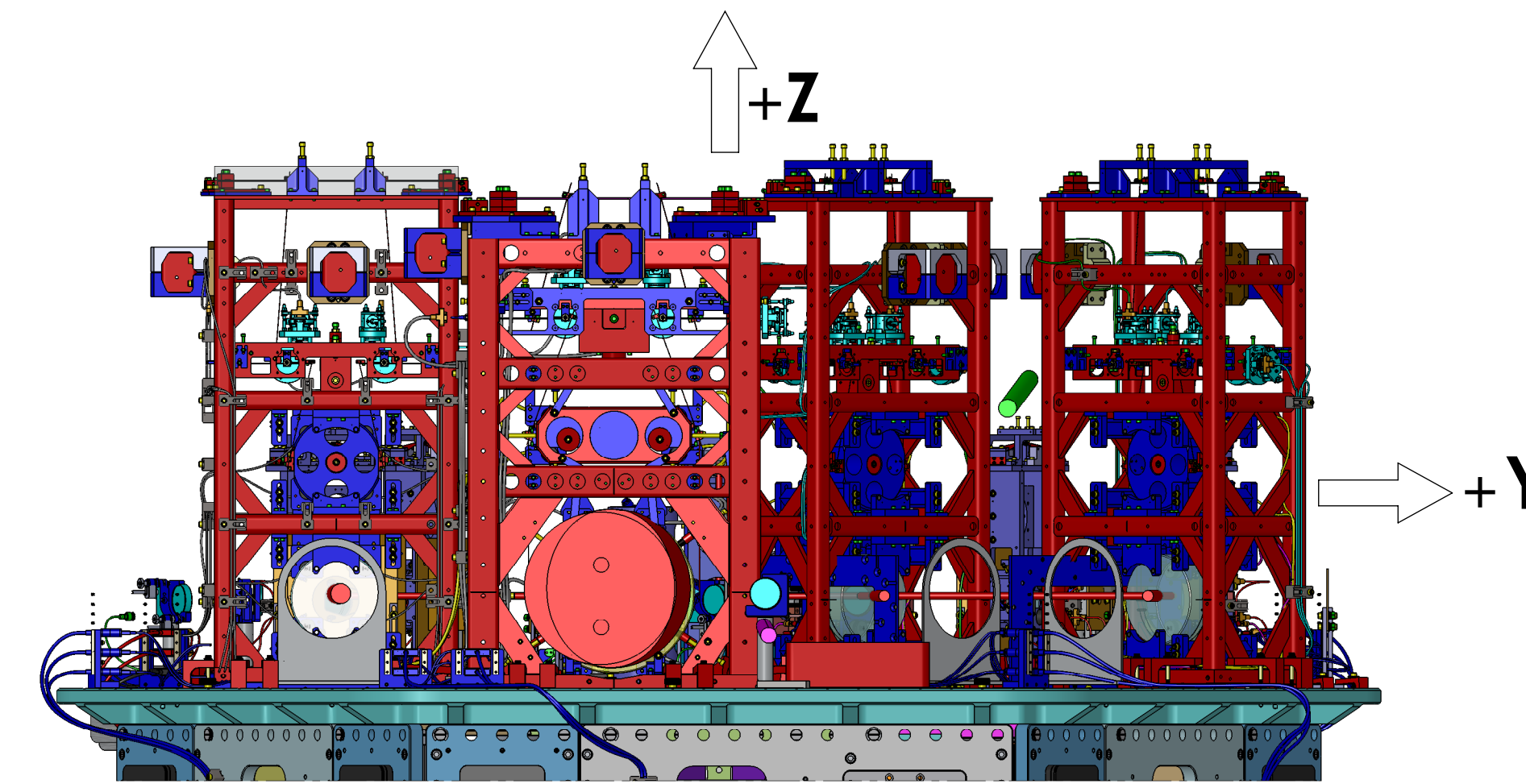
SIZE	DWG. NO.	REV.
D	D0900365	v8

SCALE: 1:5    PROJECTION:    SHEET 2 OF 6

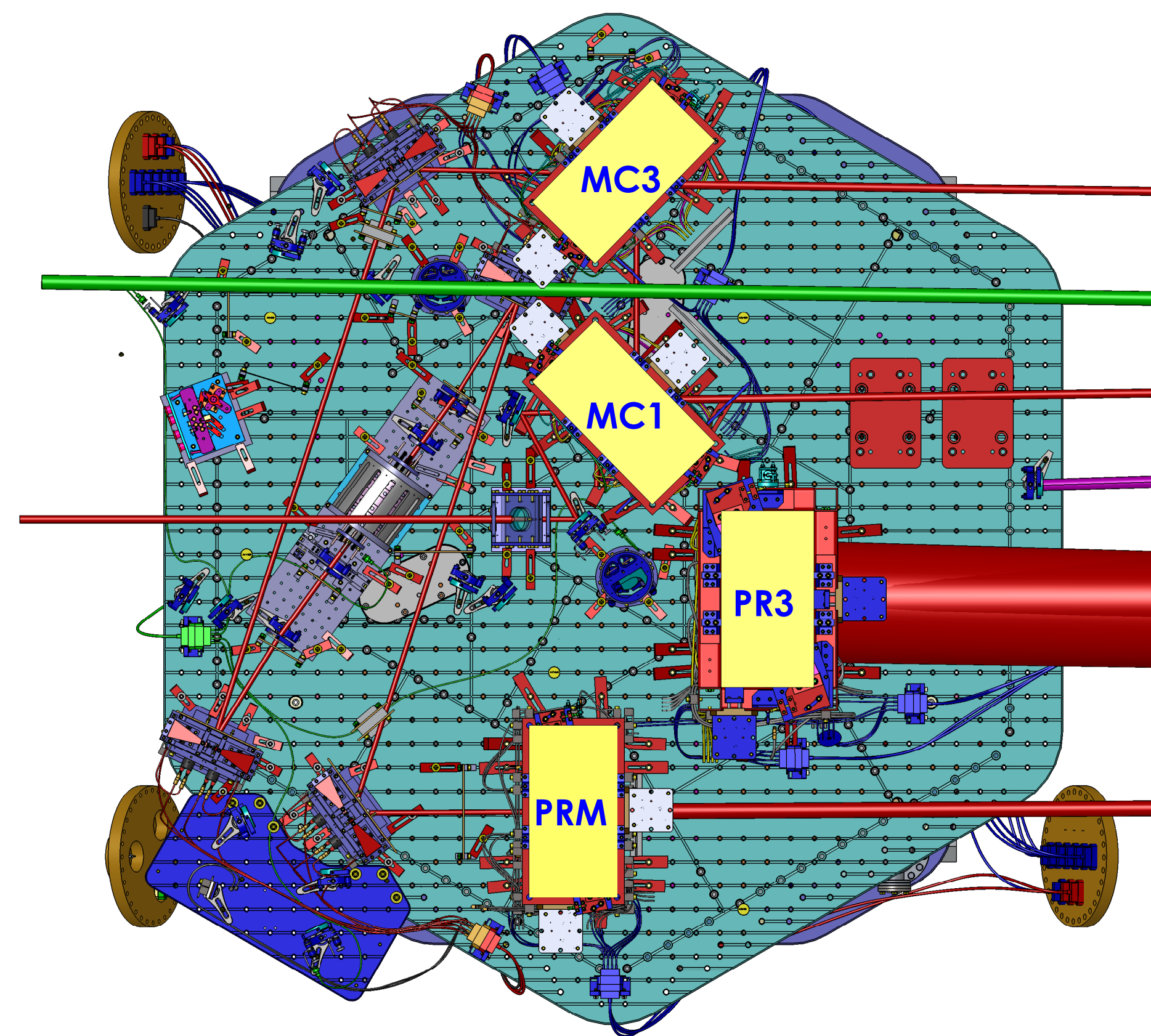
D0900365 AdvLIGO Systems, HAM2-L1 Top Level Chamber Assembly, ALL PART PDM REV. X-072, DRAWING PDM REV. X-014



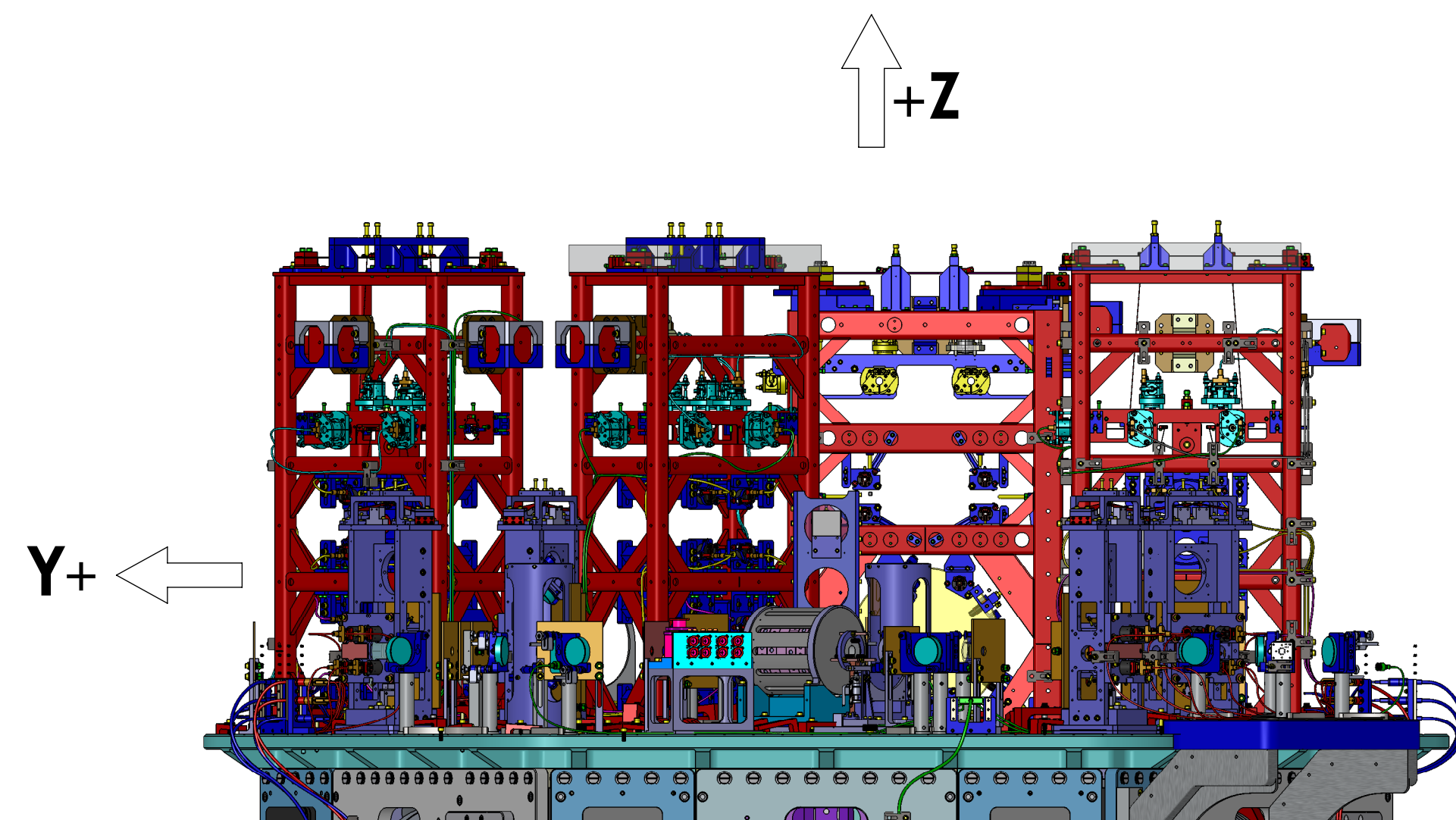
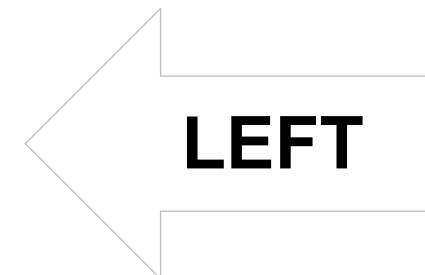
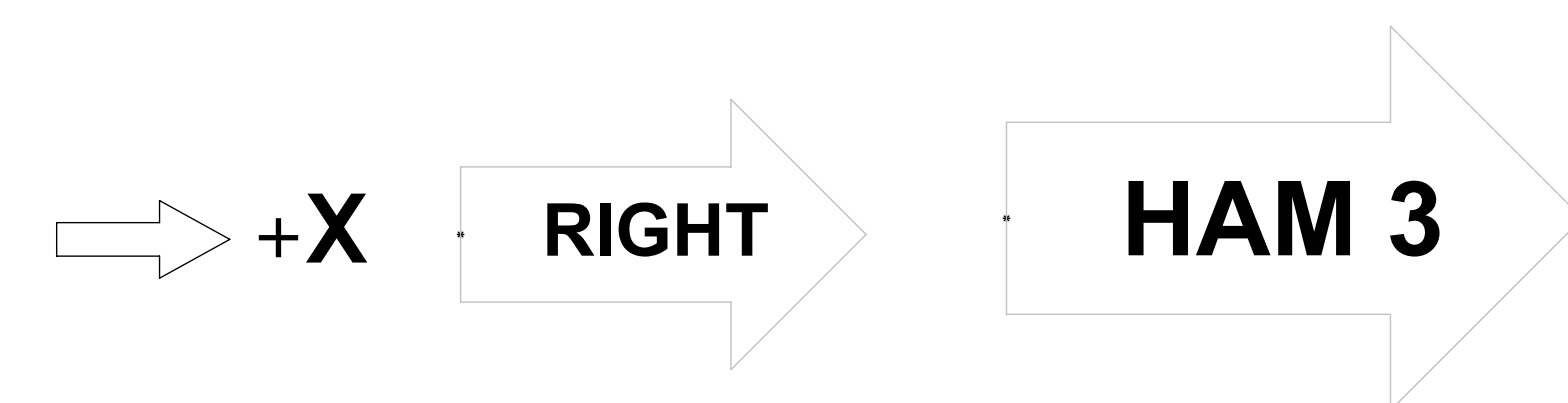
REAR VIEW  
(ROTATED 180 DEGREES CCW)



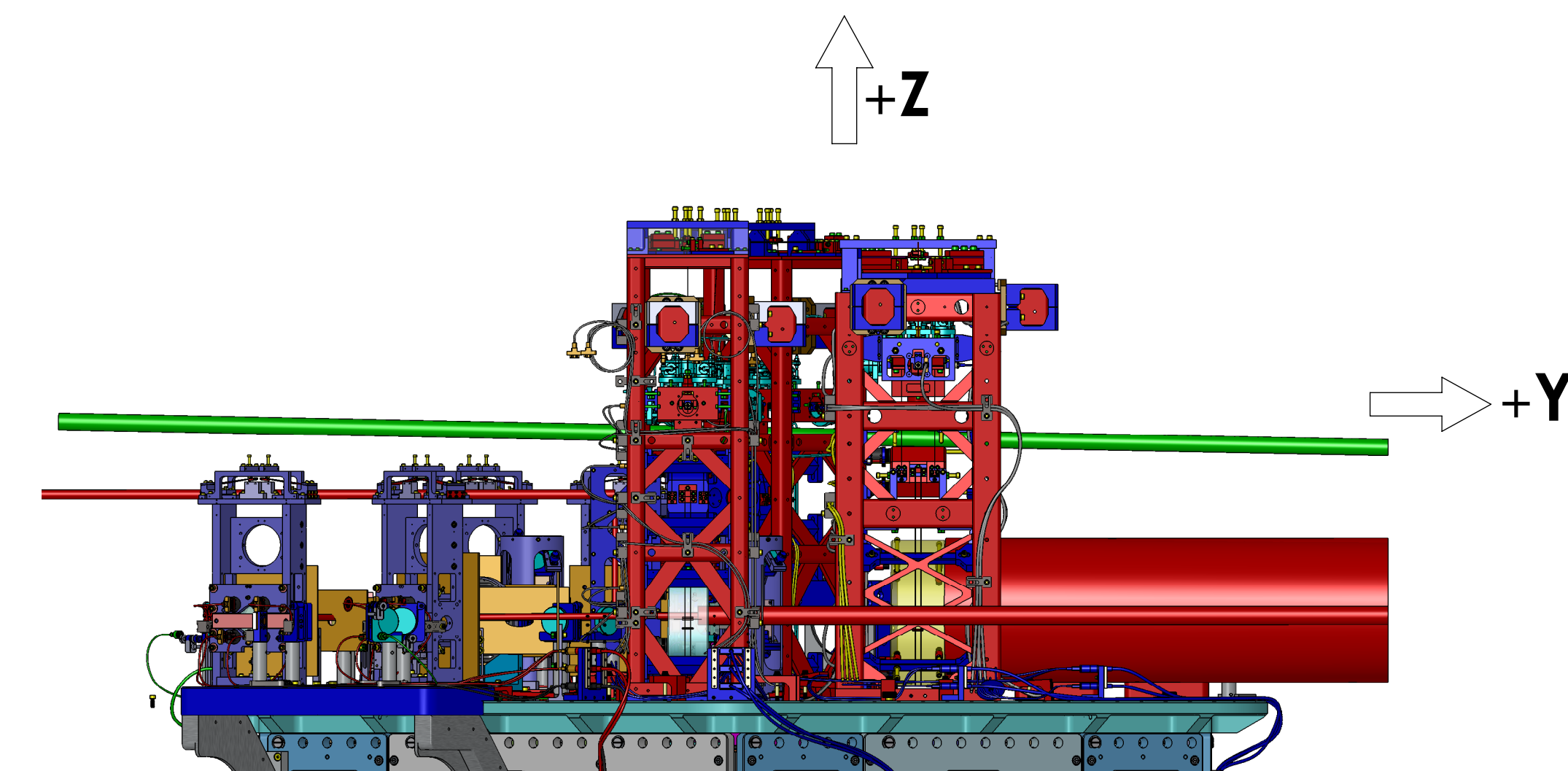
RIGHT SIDE VIEW  
(ROTATED 180 DEGREES CCW)



TOP VIEW



LEFT SIDE VIEW  
(ROTATED 90 DEGREES CCW)

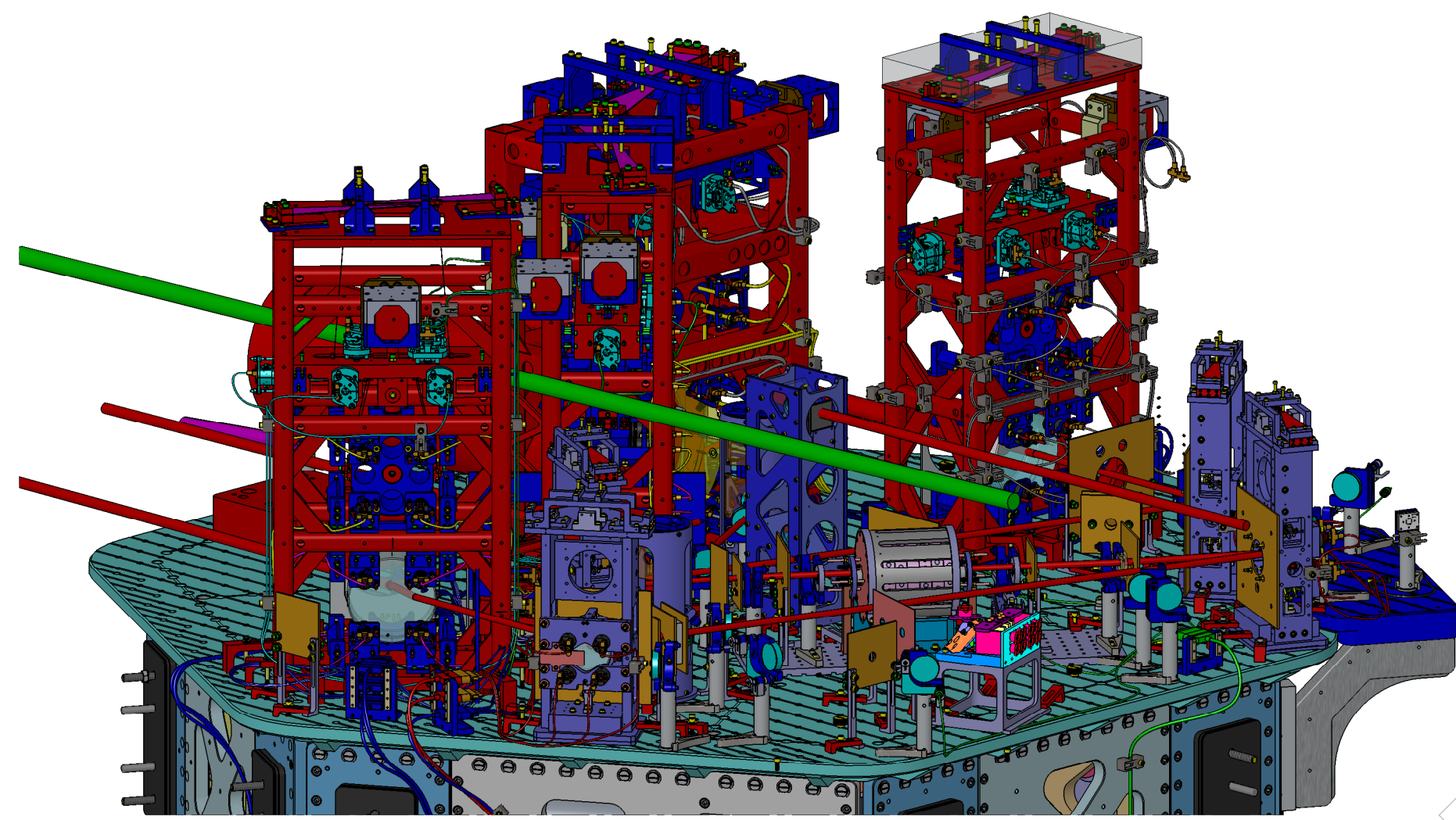


FRONT VIEW

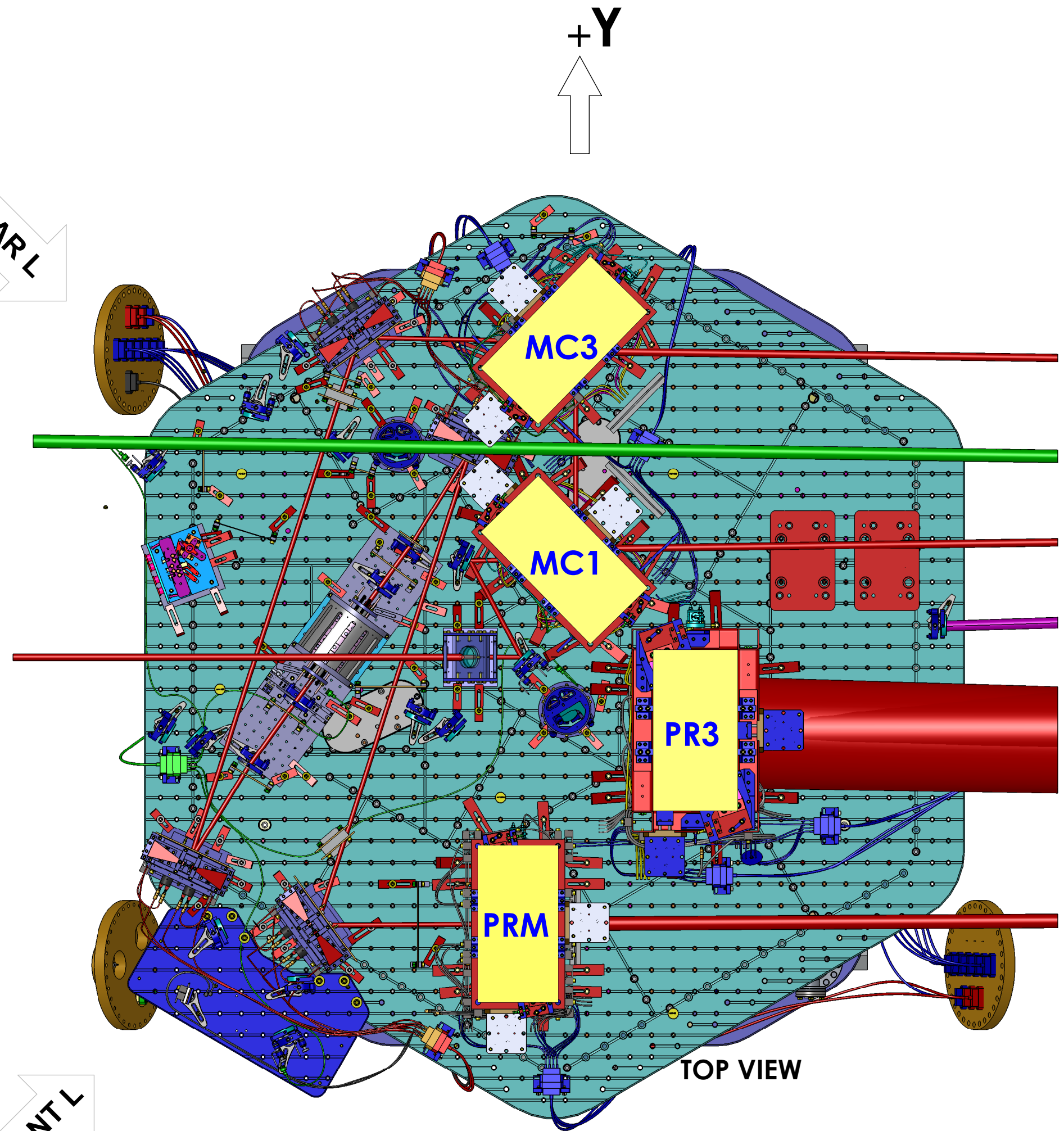
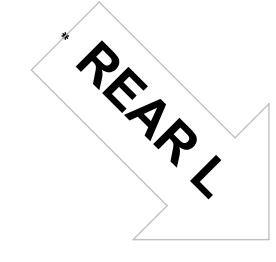
# LASER BEAMS - ORTHO VIEWS

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		REV.
SIZE	DWG. NO.	REV.
D	D0900365	v8
SCALE: 1:8	PROJECTION:	SHEET 3 OF 6

DDP00365-Asst LIGO Systems: HAM2-L1 Top Level Chamber Assembly: ALL PART PDM REV: X-072 DRAWING PDM REV: X-014



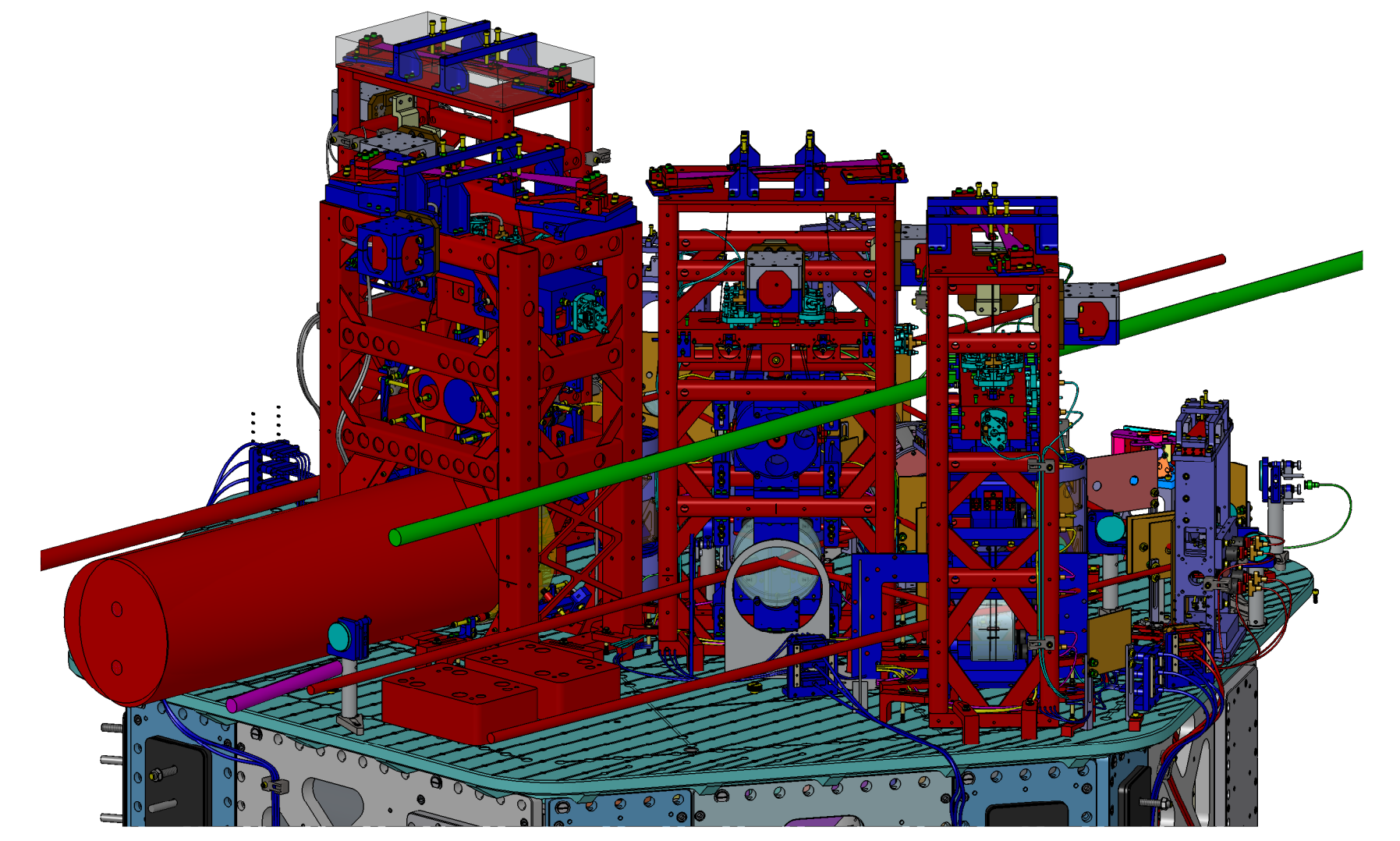
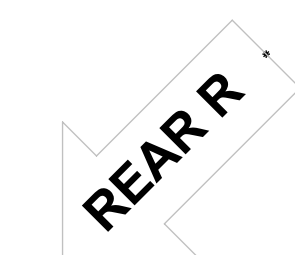
ISO REAR - LEFT



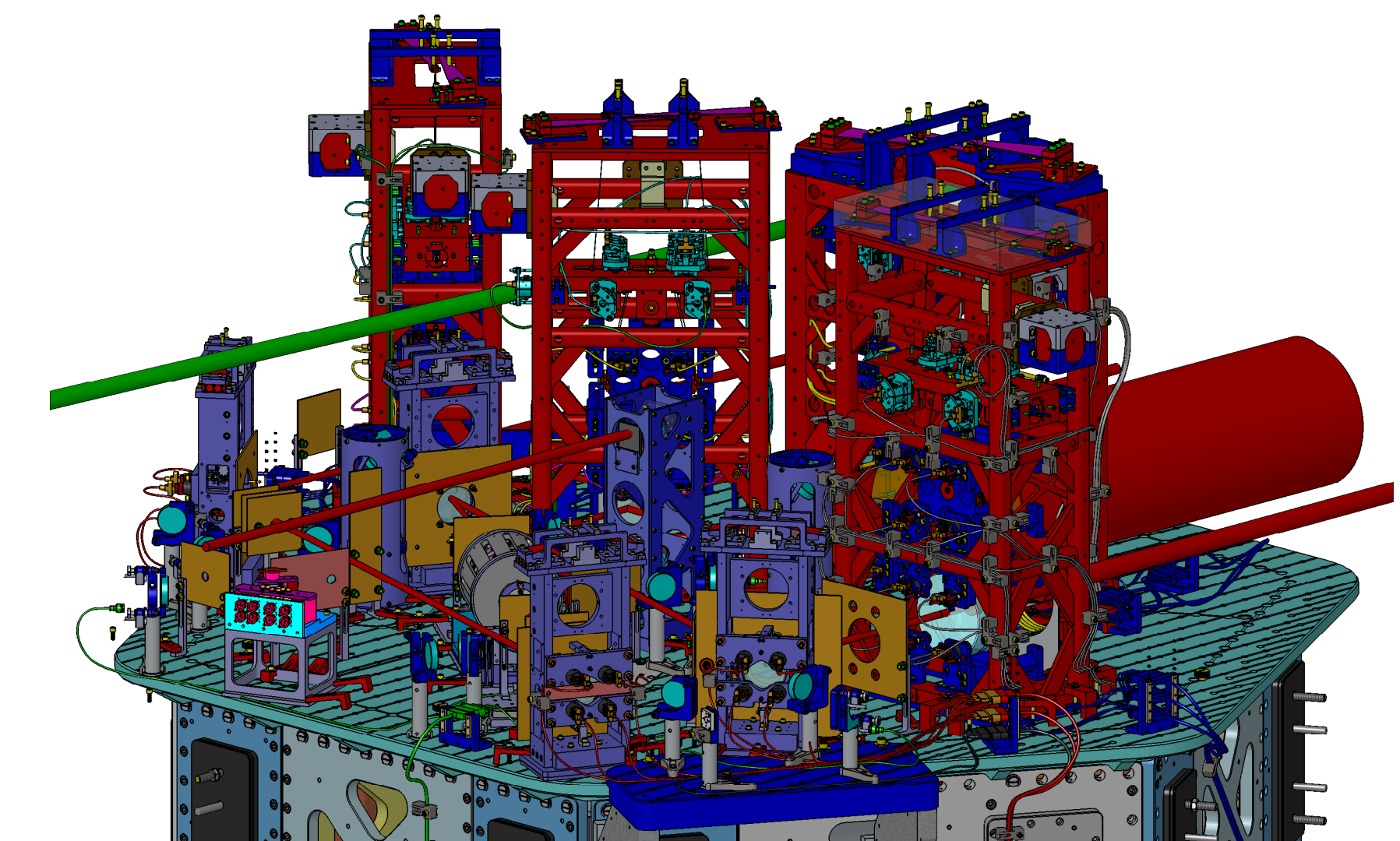
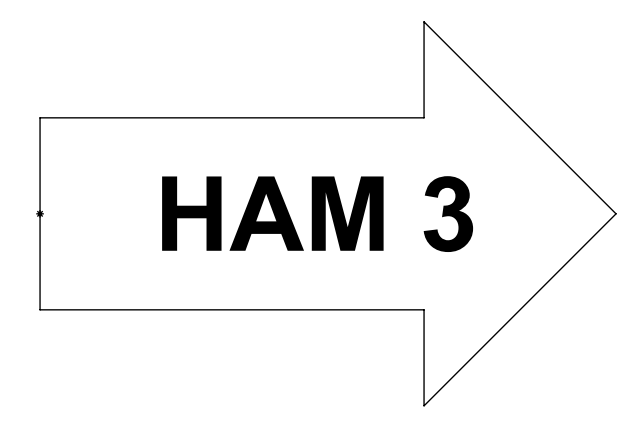
TOP VIEW

+Y

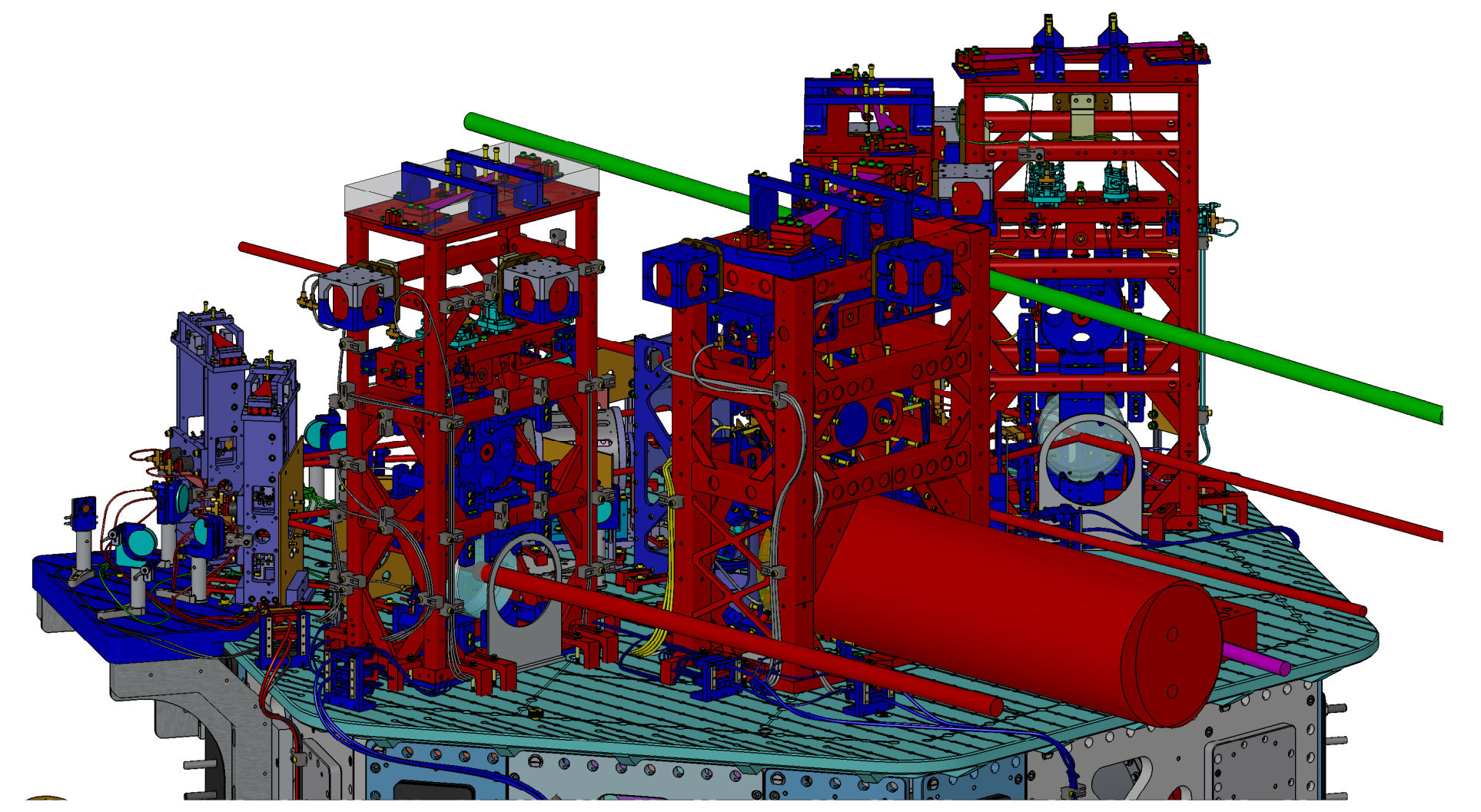
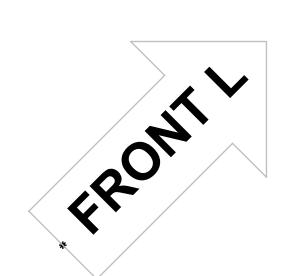
+X



ISO REAR - RIGHT



ISO FRONT - LEFT



ISO FRONT - RIGHT

# LASER BEAMS - ISO VIEWS

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		REV.
SIZE	DWG. NO.	REV.
D	D0900365	v8
SCALE: 1:8	PROJECTION:	SHEET 4 OF 6

DD0900365-Asst LIGO Systems: HAM2-L1 Top Level Chamber Assembly: ALL PART PDM REV: X-072, DRAWING PDM REV: X-014

8

7

6

5

4

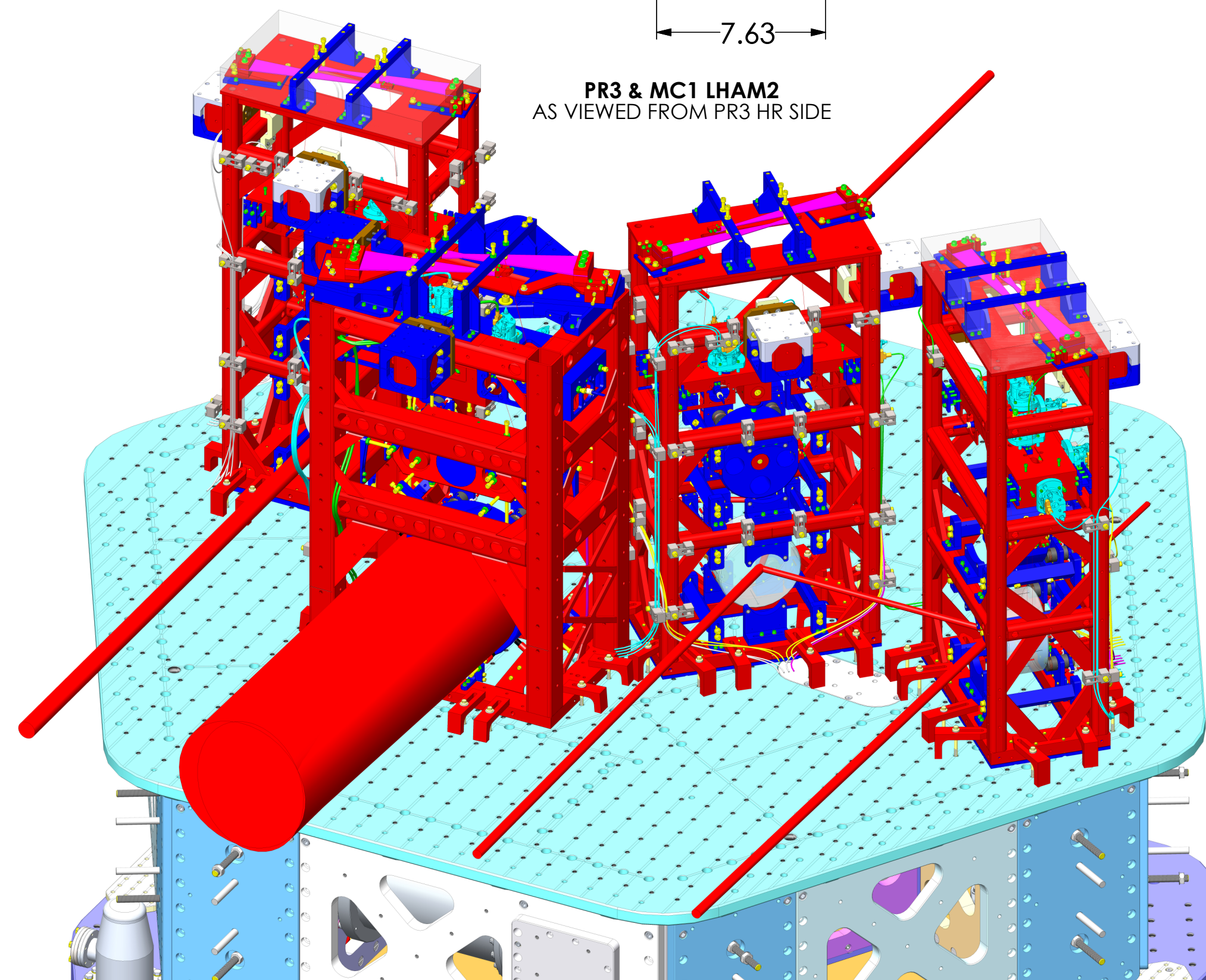
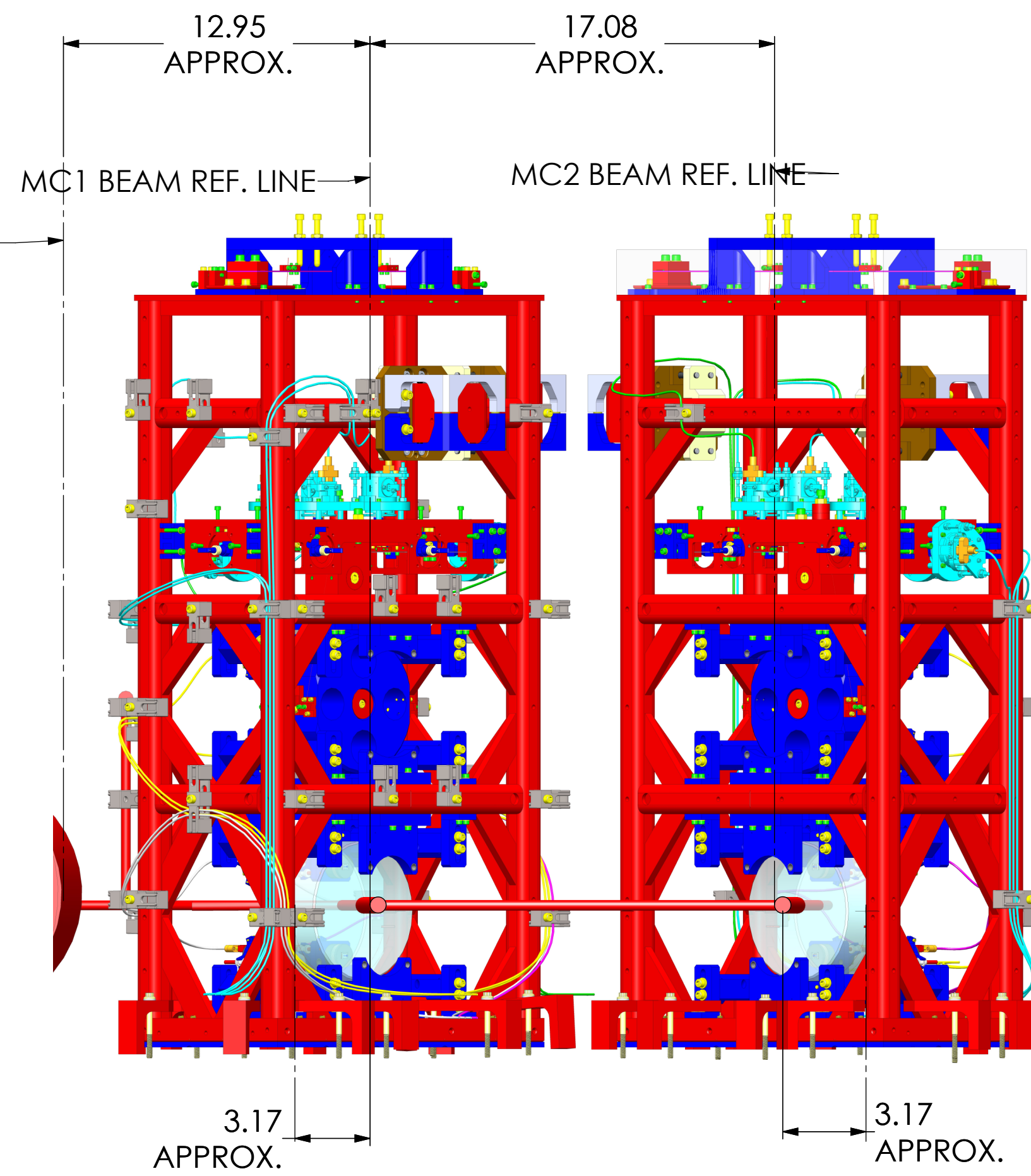
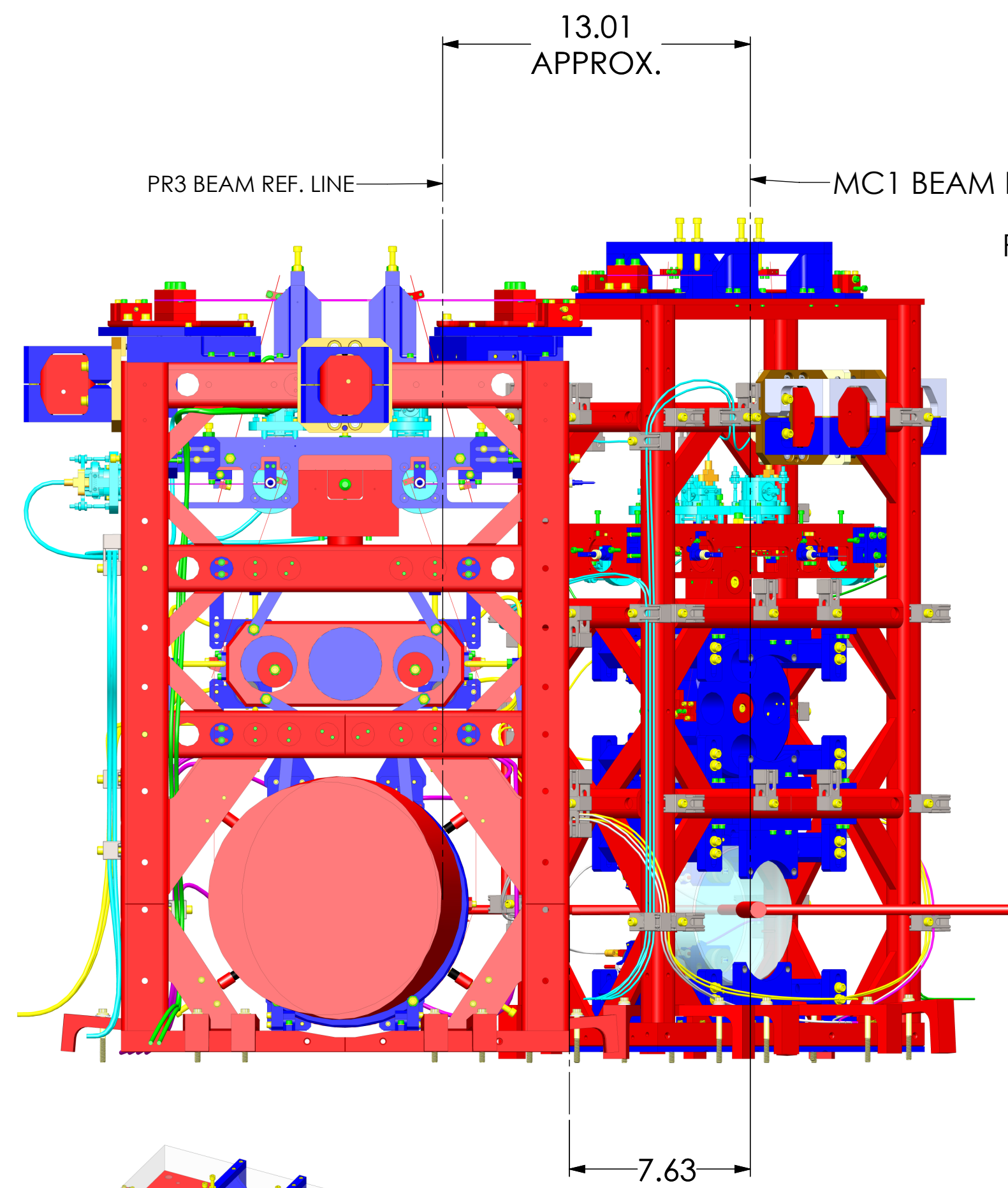
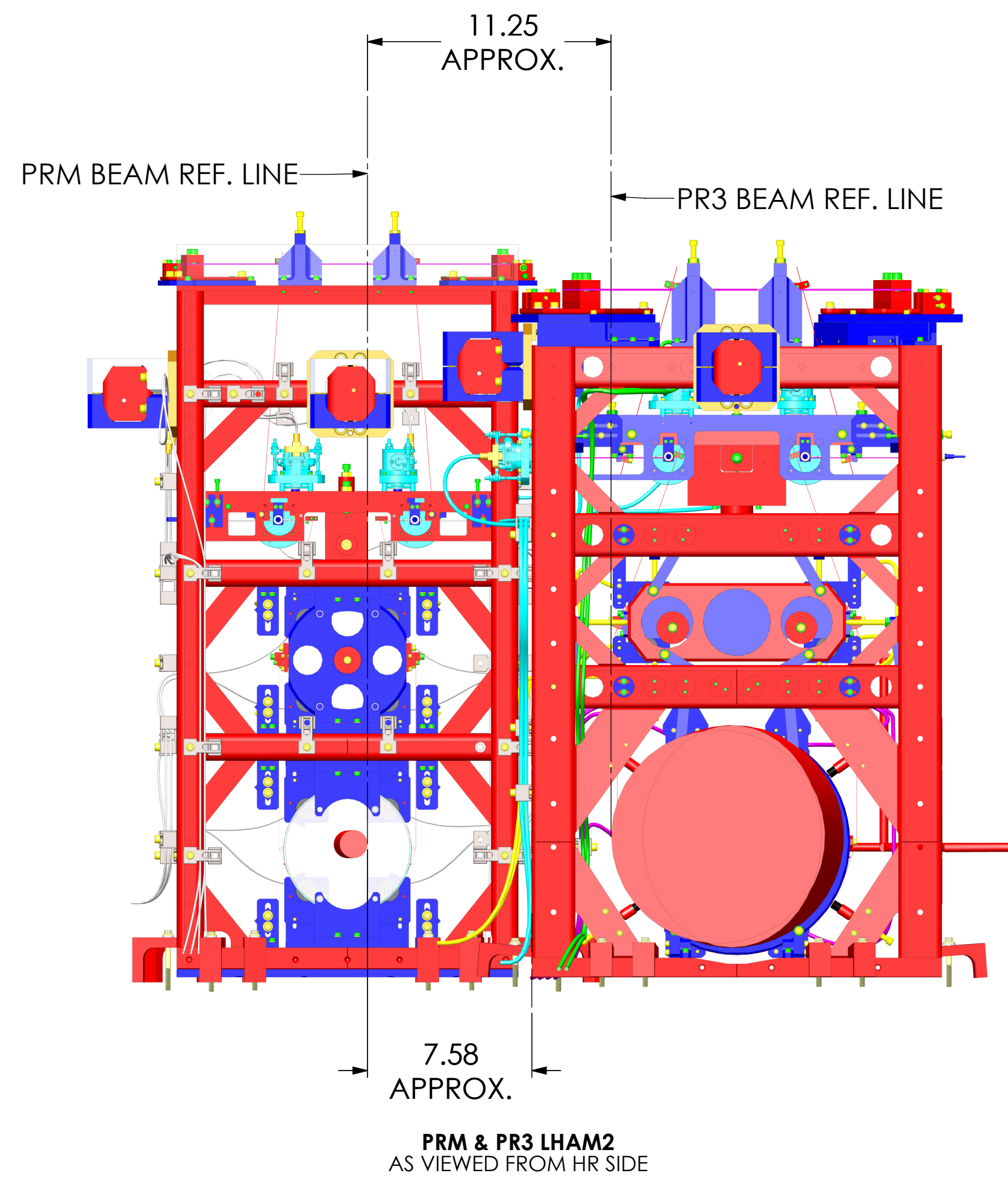
3

2

1

H  
G  
F  
E  
D  
C  
B  
A

H  
G  
F  
E  
D  
C  
B  
A



# LASER BEAMS HR SIDE CLEARANCES

<b>LIGO</b> CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE DWG. NO.	REV.
D D0900365	v8
SCALE: NTS	PROJECTION:
SHEET 5 OF 6	

8

7

6

5

4

3

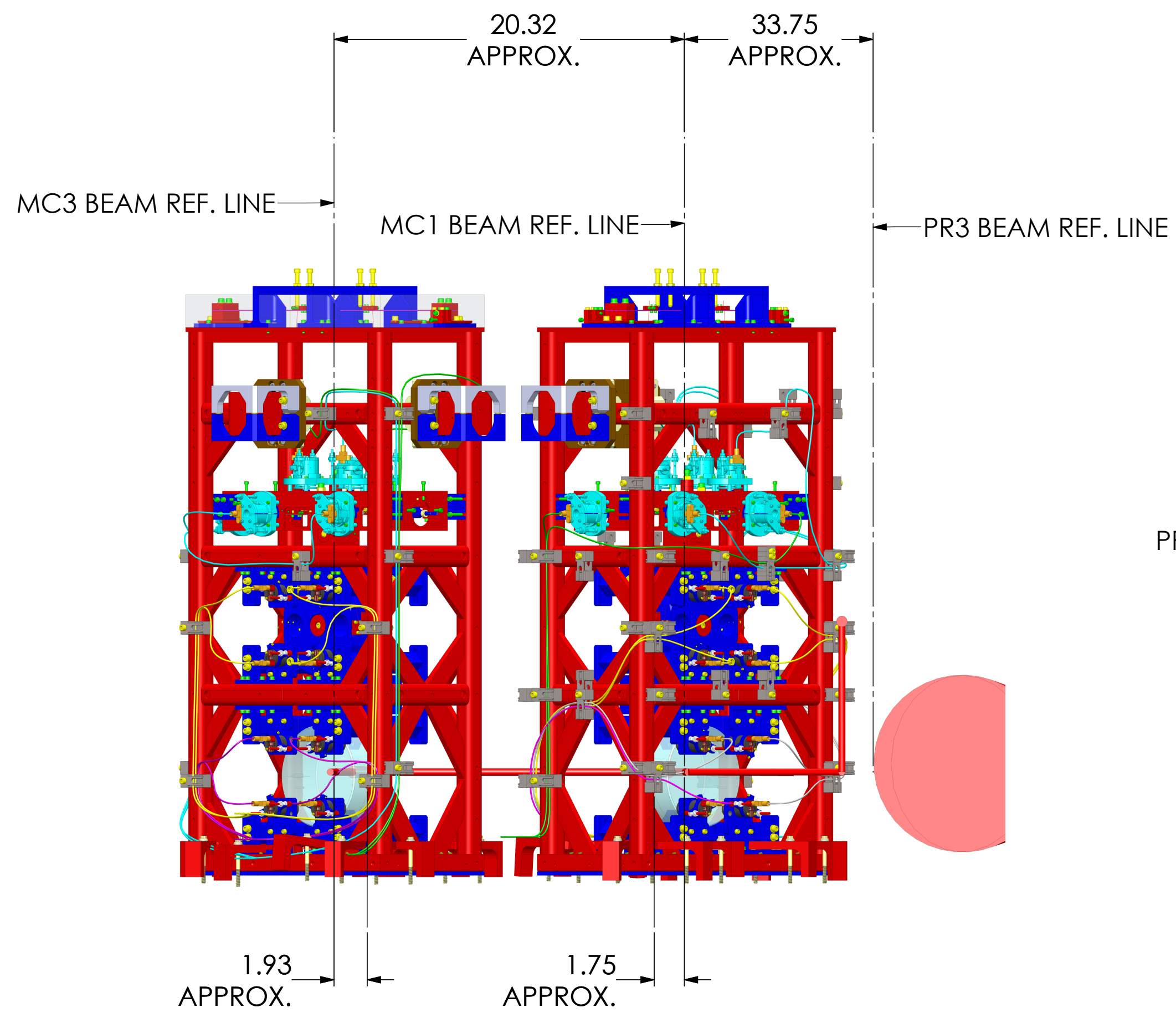
2

1

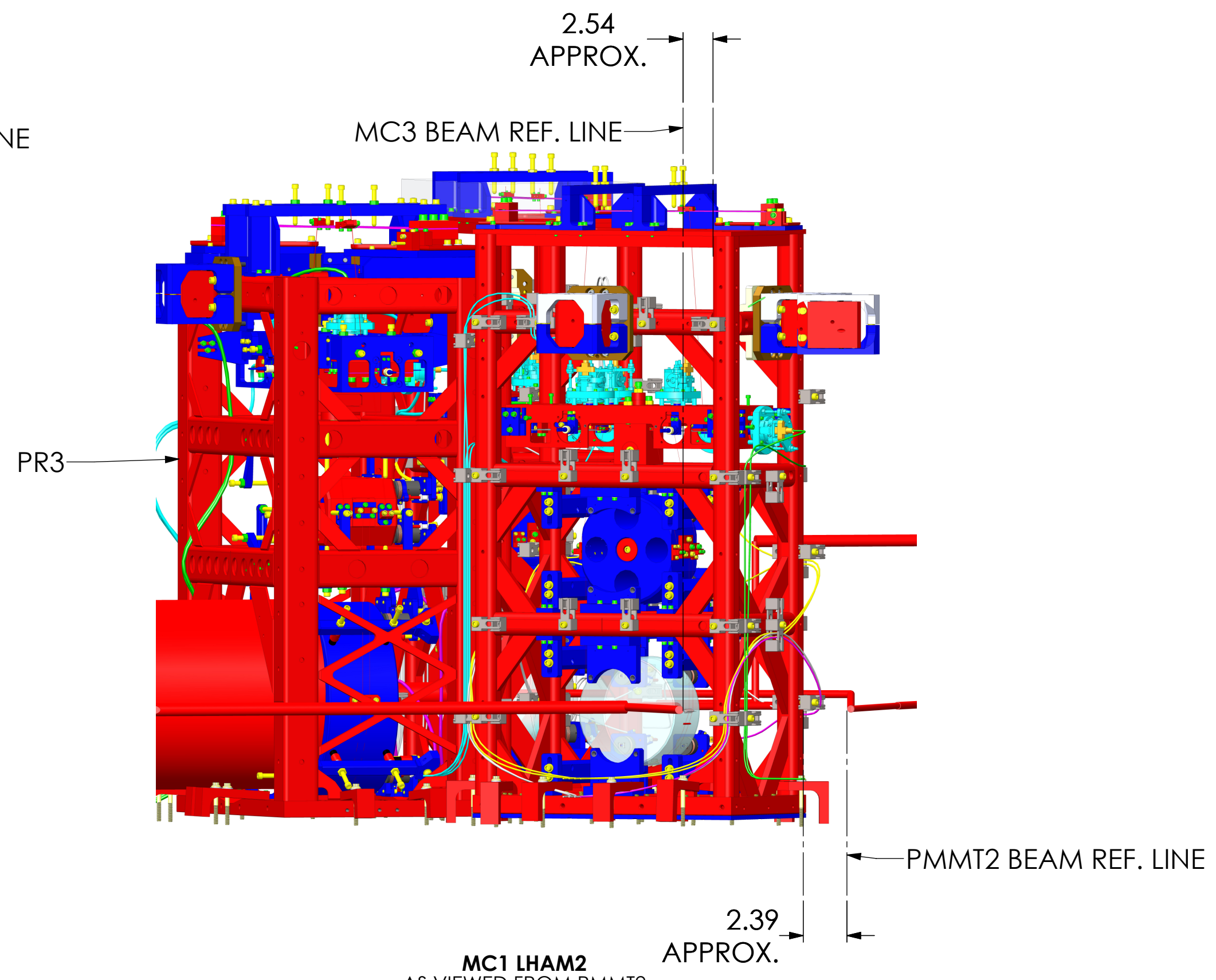
8 7 6 5 4 3 2 1

H  
G  
F  
E  
D  
C  
B  
A

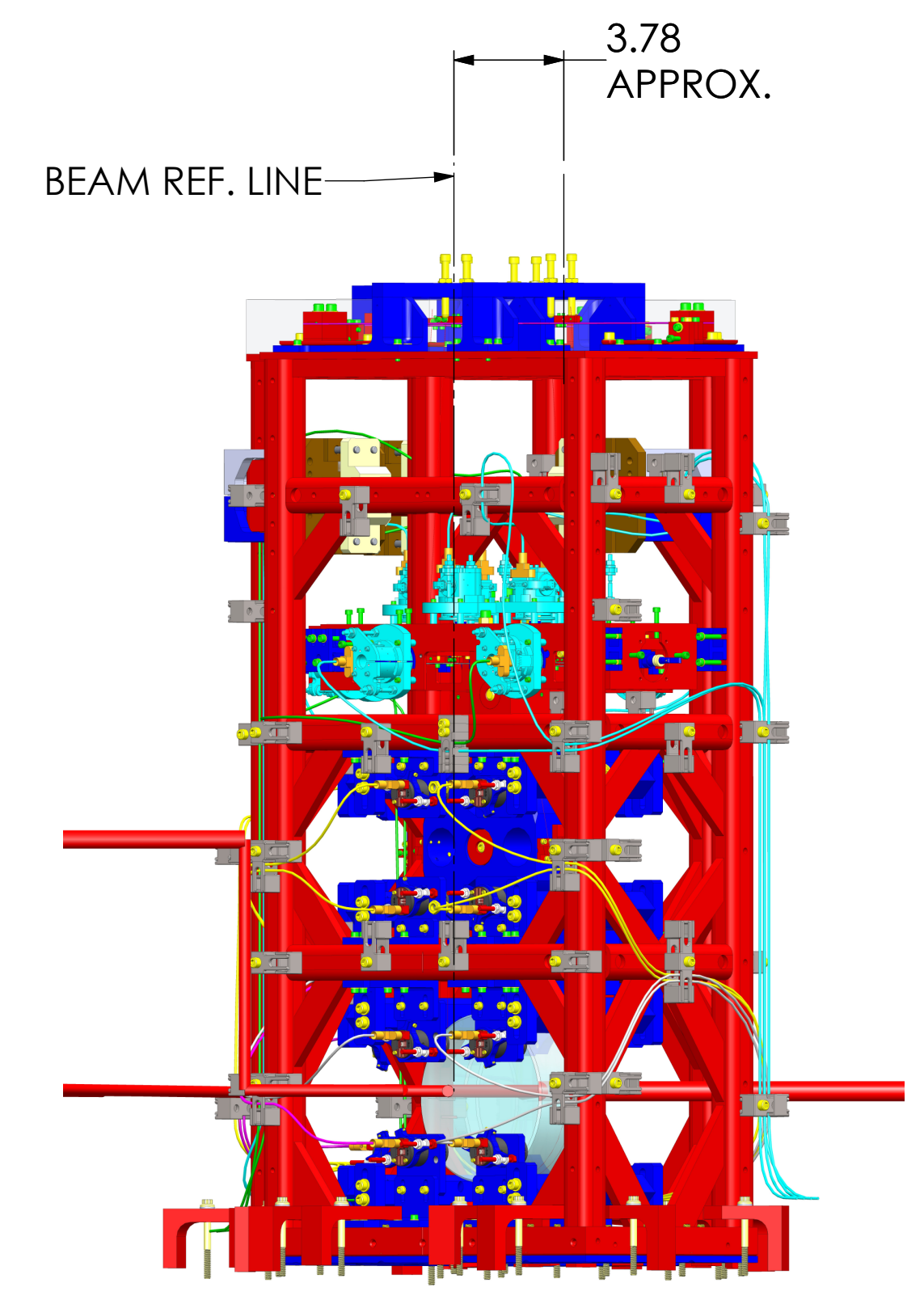
H  
G  
F  
E  
D  
C  
B  
A



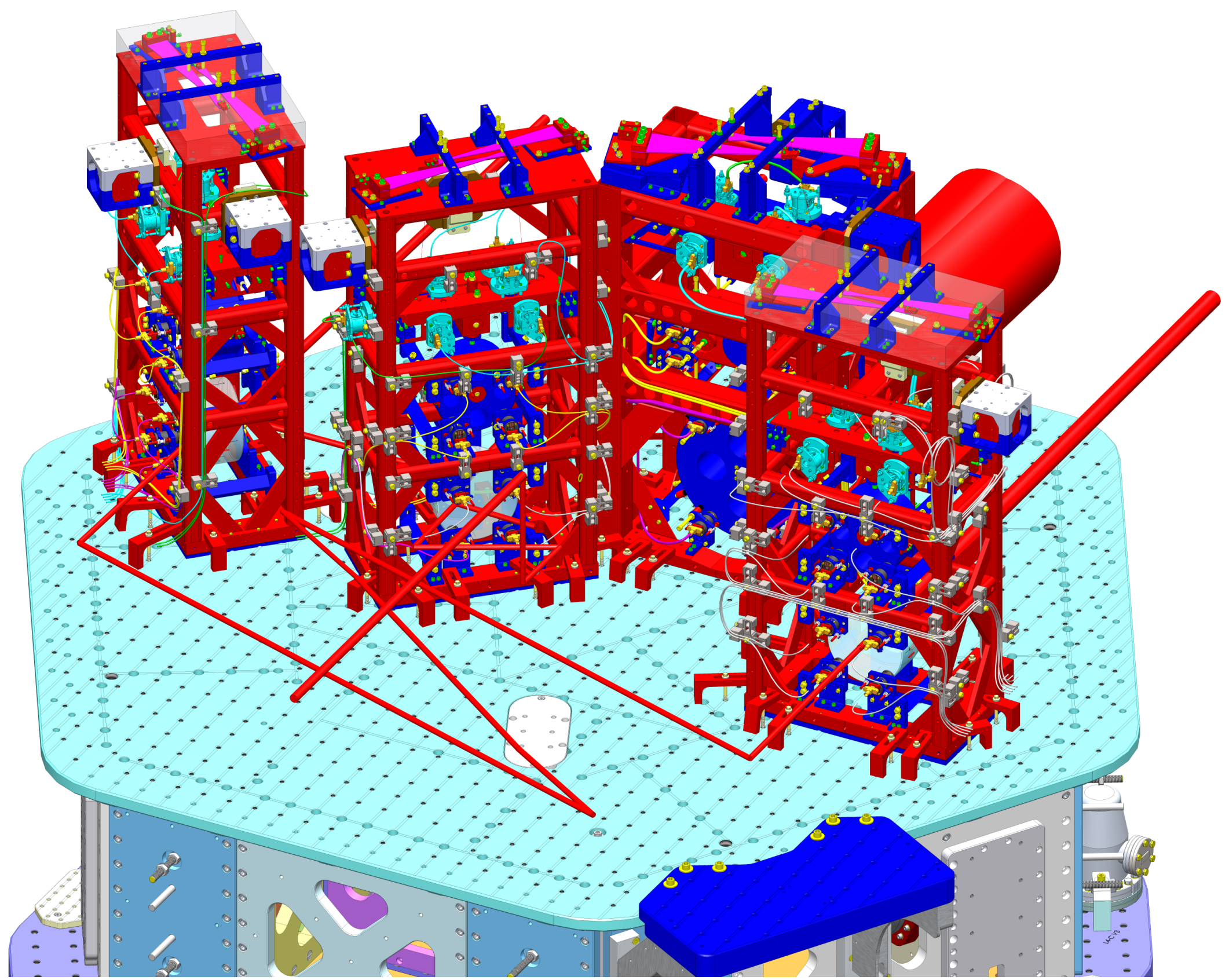
MC3 & MC1 LHAM2  
AS VIEWED FROM AR SIDE



MC1 LHAM2  
AS VIEWED FROM PMMT2



MC1 LHAM2  
ISO VIEW, REAR RIGHT



ISO VIEW, FRONT LEFT

# LASER BEAMS AR SIDE CLEARANCES

<b>LIGO</b> CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE DWG. NO.	REV.
D D0900365	v8
SCALE: NTS	PROJECTION:
SHEET 6 OF 6	

8 7 6 5 4 3 2 1

D:\D0900365\_Adu\LIGO Systems\_HAM2\L1 Top Level Chamber Assembly\_All Part PDM Rev.: DRAWING PDM REV: X014