

ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	B	END GEOMETRY	31.3.00	RHC

NOTES:  
1. QUANTITIES GIVEN PER CHAMBER.

PNO/REF #	QTY	U/L	PART NAME	MATERIAL	PART DESCRIPTION	REF. SHEET/DWG.
316	EA		SCREW	SS	M4 X 8 HEX HEAD CS	
576	EA		SCREW	SS	M2.5 X 4 SBHCS	
22	6	EA	MEZ CARD R		ELECTRONIC ASSEMBLY	
23	6	EA	MEZ CARD L		ELECTRONIC ASSEMBLY	
22	6	EA	HH CARD R		ELECTRONIC ASSEMBLY	
21	6	EA	HH CARD L		ELECTRONIC ASSEMBLY	
20	6	EA	HV CARD R		ELECTRONIC ASSEMBLY	
19	6	EA	HV CARD L		ELECTRONIC ASSEMBLY	
18	2	EA	G PNL R		.5 X 201.45 X 2002.5 MACHINED/BENT	81.05.01.00 - 01
17	2	EA	G PNL L		.5 X 201.45 X 2002.5 MACHINED/BENT	81.05.01.00 - 02
16	6	EA	MEZZ BOX R		.5 X 183.39 X 190.43 MACHINED/BENT	81.01.08.00 - 01
15	6	EA	MEZZ BOX L		.5 X 183.39 X 190.43 MACHINED/BENT	81.01.08.00 - 02
14	1	EA	HH LG BOX R		ASSEMBLY	81.01.07.00-01
13	1	EA	HH LG BOX L		ASSEMBLY	81.01.07.00-02
12	5	EA	HV BOX R		ASSEMBLY	81.01.06.00-01
11	5	EA	HV BOX L		ASSEMBLY	81.01.06.00-02
10	1	EA	HH LG BOX R		ASSEMBLY	81.01.05.00-01
9	1	EA	HH LG BOX L		ASSEMBLY	81.01.05.00-02
8	5	EA	HH BOX R		ASSEMBLY	81.01.04.00-01
7	5	EA	HH BOX L		ASSEMBLY	81.01.04.00-02
6	2	EA	LNQ BASE R		.5 X 274.98 X 307.77 MACHINED/BENT	81.01.03.00-01
5	2	EA	LNQ BASE L		.5 X 274.98 X 307.77 MACHINED/BENT	81.01.03.00-02
4	8	EA	MDL BASE R		.5 X 266.65 X 344.77 MACHINED/BENT	81.01.02.00-01
3	8	EA	MDL BASE L		.5 X 266.65 X 344.77 MACHINED/BENT	81.01.02.00-02
2	2	EA	SRT BASE R		.5 X 222.97 X 348.77 MACHINED/BENT	81.01.01.00-01
1	2	EA	SRT BASE L		.5 X 222.97 X 348.77 MACHINED/BENT	81.01.01.00-02

UNLESS OTHERWISE SPECIFIED:

DIMEN	< 7	7-30	31-120	121-315	316-1000	1001-2000	2001-4000	4001-10000
TOLER	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.0	±3.0
ANGLE	±30'	±20'	±20'	±10'	±5'	VALUES APPLYING SINCE 08		

PERMISSIBLE VARIATION IN DIMENSIONS WITHOUT TOLERANCES

SURFACE TEXTURE:  $R_{\text{avg}}$  TOLERANCES ARE NOT ACCUMULATIVE

1. DIMENSIONS ARE IN MM.

2. MACHINE SURFACES TO BE FLAT, SQUARE, PARALLEL & CONCENTRIC

3. WITHIN .020 FOR 100 MM OR .020 TIR AS APPLICABLE

4. MARK ALL DETAILS (EXCEPT COMMERCIAL PARTS) WITH DWG.

5. BREAK ALL SHARP CORNERS .25 X 45° CHAMFER.

6. FILETS SHOWN SHARP = 1.0 RAD.

7. CHAMFERED & REAMED HOLES 1.5 X 45°

8. CENTERS PERMISSIBLE

9. ALL DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED

10. ALL WELDING TO CONFORM TO LATEST AWS STANDARDS

FINISH:  $R_{\text{avg}}$

ATLAS - BMC  
HARVARD UNIVERSITY

MUON DETECTOR  
CHAMBER EL1

HIGH ENERGY PHYSICS LABORATORY  
FC. BOX-ON-BOX ASSEMBLY

DWG. NO. 70.01.03.00  
PROJECT NUMBER 70

DATE 11/7/00  
APPROVED RHC

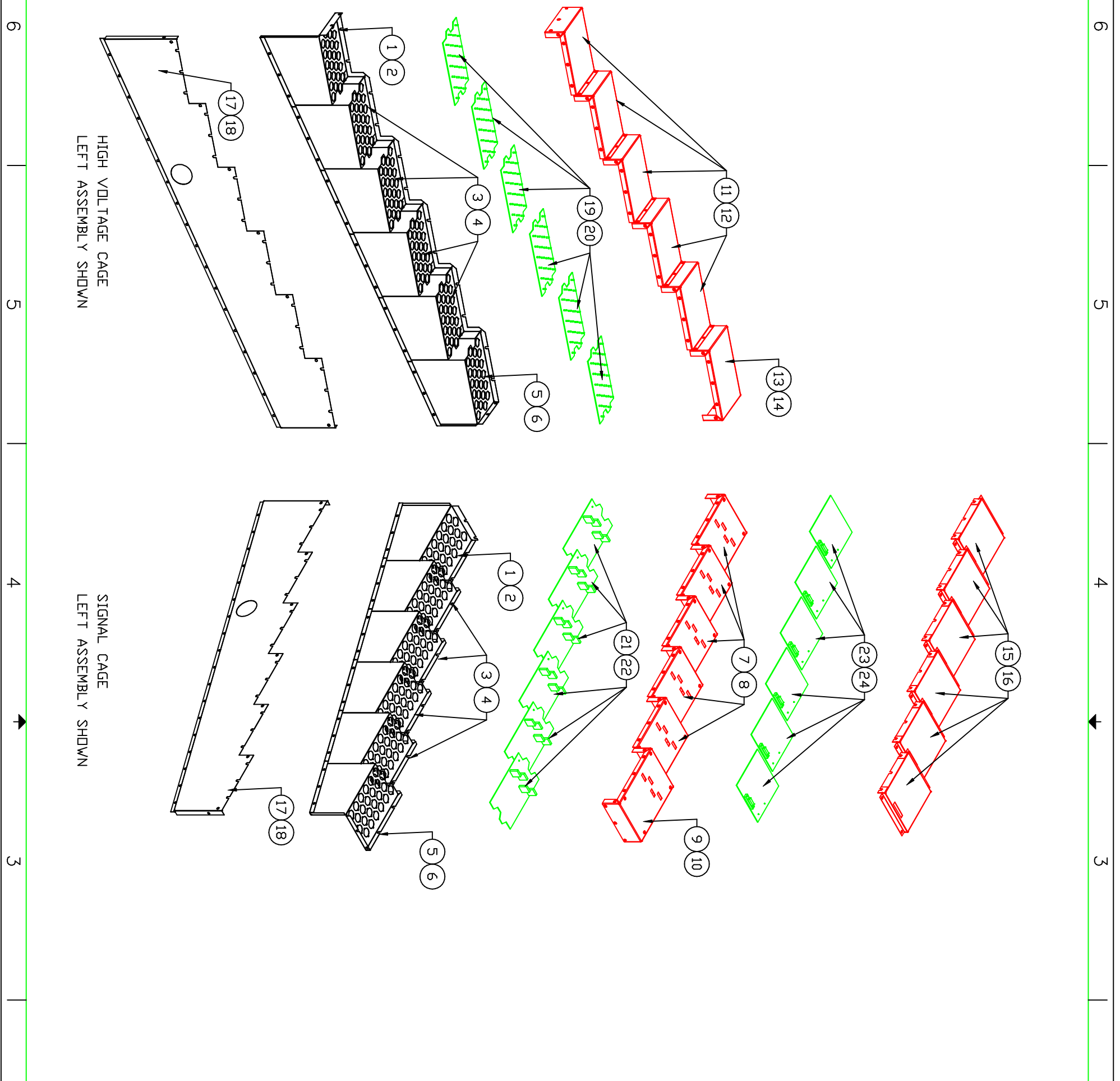
DESIGNED BY  
CHECKED BY

SCALE NONE

SIZE D

SHEET 1 OF 1  
REGION A

PERMISSIBLE VARIATION IN DIMENSIONS WITHOUT TOLERANCES



HIGH VOLTAGE CAGE  
LEFT ASSEMBLY SHOWN

SIGNAL CAGE  
LEFT ASSEMBLY SHOWN