

Fid. Data Summary for 145D-2 Rafts

145D-56

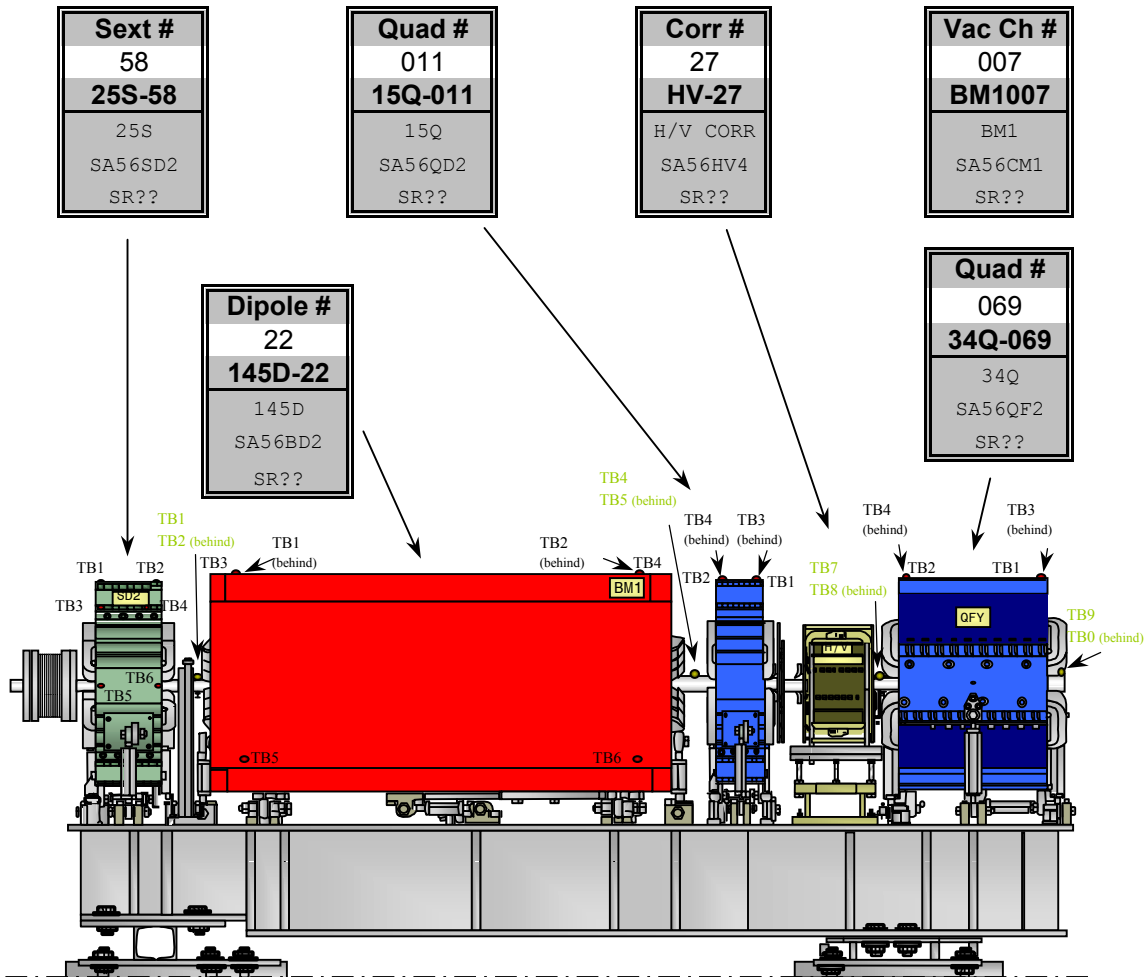
Raft Description:

Date April 17, 2002

Raft # 56 145D-56	Type 2 145D T-2	Bld. 750 Name SA56	S3 Ring Name SR??
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Notes:

The above date represents the latest fiducial date of all components listed below.
As-built Vacuum Chamber data could not be found.



Sextupole: Fiducial Values for 25S Sextupole

Fiducial	Z	X	Y
TB1	-4.294	4.096	15.512
TB2	4.474	4.077	15.506
TB3	-4.420	-10.576	12.495
TB4	3.445	-10.512	12.534
TB5	-4.111	-15.064	0.130
TB6	4.430	-15.064	0.064

inches inches inches

Use Index Flats on Six Poles Each End to Establish z=0.

Weld 2 1.5 inch Target Mounts

Weld 2 Standard Target Mounts on "Full" Ears

Weld 2 Standard Target Mounts

25S Length = 210 mm=8.3 inch

25S Length = 230 mm=9.8 inch

SEXTUPOLE

25S-58

SA56SD2
SR??

7/10/01

Description:
Fiducials based on values posted on web-page. (Check for updates.)

Gradient Dipole: Fiducial Values for Dipole (145D)

Fiducial	Z	X	Y
TB1	-26.556	3.450	16.996
TB2	26.543	3.438	17.002
TB3	-26.565	-22.403	16.995
TB4	26.543	-22.437	16.994
TB5	-26.441	-24.249	-11.374
TB6	26.587	-24.250	-11.582

inches inches inches

Weld 4 Target Mounts Outside of y-granges

1590 Overall Length = 163 inch

1530 Overall Length = 161 inch

4 inches Typical 4 Places

Weld 2 Target Mounts

4 inches Typical 2 Places

End Plate Thickness = 2 inch

GRADIENT DIPOLE

145D-22

SA56BD2
SR??

9/18/01

Description:
Fiducials based on values posted on web-page. (Check for updates.)

Quadrupole: Fiducial Values for Upstream (15Q) Quadrupole

Fiducial	Z	X	Y
TB1	-2.559	11.256	16.203
TB2	2.567	11.240	16.204
TB3	-2.569	-11.256	16.209
TB4	2.544	-11.271	16.205
TB5	-1.485	-15.204	-4.823
TB6	2.426	-15.203	-4.825

QUADRUPOLE
15Q-011

SA56QD2
SR??

6/13/01

Description:
Fiducials based on values posted on web-page. (Check for updates.)

H/V Corrector: Fiducial Values for Corrector

Fiducial	Z	X	Y
1	-0.003	-0.323	-10.196
2	-0.002	-10.046	-10.205
A	0.000	-20.003	0.000
B	0.000	-20.003	0.000
C	0.000	-20.003	0.000
D	0.000	-20.003	0.000
E	0.000	0.000	17.935
F	0.000	0.000	17.935

H/V CORRECTOR
HV-27

SA56HV4
SR??

No Date

Description:
Fiducials based on known nominal values.

Quadrupole: Fiducial Values for Downstream (34Q) Quadrupole

Fiducial	Z	X	Y
TB1	-6.330	11.250	16.201
TB2	6.322	11.244	16.204
TB3	-6.303	-11.236	16.206
TB4	6.294	-11.239	16.198
TB5	-5.171	-15.203	-4.876
TB6	4.571	-15.206	-4.945

QUADRUPOLE
34Q-069

SA56QF2
SR??

7/6/01

Description:
Fiducials based on values posted on web-page. (Check for updates.)

Vacuum Chamber: Fiducial Values for BM1 Vacuum Chamber

Fiducial	Z	X	Y
TB1	-34.847	1.597	4.364
TB2	-34.850	8.508	4.353
TB3	11.120	3.957	2.319
TB4	34.510	-4.859	4.378
TB5	36.580	6.236	4.354
TB6	52.475	-1.875	2.309
TB7	55.657	-11.132	3.083
TB8	59.433	8.991	3.057
TB9	74.650	-20.294	4.379
TB0	76.912	-8.178	4.383

VACUUM CHAMBER
BM1007

SA56CM1
SR??

4/17/02

Description:
Fiducials based on values posted on web-page. (Check for updates.)

Building 750 Deck: Positions of Component Origins

750 Name	Z	X	Y	Yaw
SA56SD2	1.367	-3.500	0.000	0.0000
SA56CM1	2.450	-3.500	0.000	0.0000
SA56BD2	2.447	-3.534	0.000	-5.2941
SA56QD2	3.485	-3.694	0.000	-10.5882
SA56QF2	4.114	-3.811	0.000	-10.5882
	meters	meters	meters	degrees

Date of Deck File: September 9, 2002

145D-56

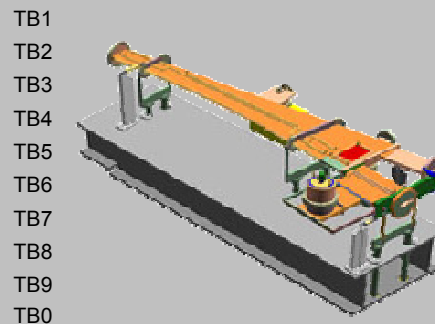
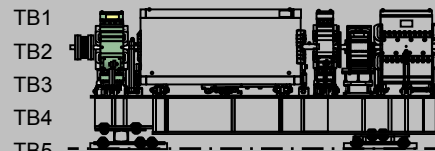
Location of Raft: WEST

Description:

Deck coordinates representing origin of the specific component's coordinate system.

Building 750 As-Built: (TABLE 1 of 2)

750 Name	delta Z	delta X	delta Y (delta H)
SA56SD2	-0.011	-0.003	-0.002
	0.000	0.000	0.000
	-0.005	-0.002	0.002
	-0.002	0.000	-0.001
	-0.006	0.000	0.002
	-0.006	-0.001	-0.001
SA56CM1	missing	missing	missing
	missing	missing	missing
	missing	missing	missing
	missing	missing	missing
	missing	missing	missing
	missing	missing	missing
	missing	missing	missing
	missing	missing	missing
	missing	missing	missing
	missing	missing	missing
	inches	inches	inches



Latest File Date: October 21, 2002

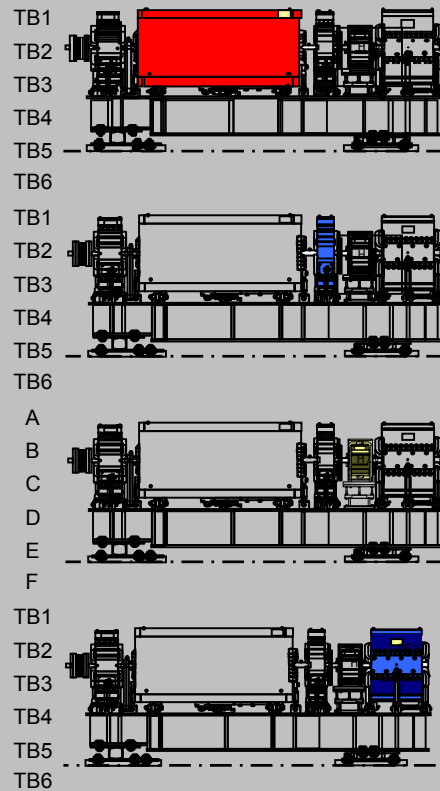
145D-56

Description:

Values representing the difference between the design and actual fiducial measurements.

Building 750 As-Built: (TABLE 2 of 2)

750 Name	delta Z	delta X	delta Y (delta H)
SA5 6BD2	0.008	-0.004	-0.005
	0.003	0.002	-0.001
	0.010	-0.001	-0.004
	0.007	0.006	-0.002
	0.012	0.000	-0.003
	0.007	0.002	0.001
SA5 6QD2	0.004	0.005	-0.001
	0.008	0.003	0.003
	-0.001	0.003	-0.003
	-0.004	0.003	0.000
	0.000	0.000	0.000
	0.000	-0.004	-0.001
SA5 6HV4		-0.005	
		-0.008	
		0.004	
		-0.002	
			0.002
			0.001
SA5 6QF2	-0.004	0.001	-0.002
	-0.006	-0.001	0.001
	-0.006	-0.003	-0.001
	-0.011	-0.005	0.000
	-0.006	-0.001	-0.006
	-0.007	-0.001	-0.004
	inches	inches	inches



Latest File Date: October 21, 2002

145D-56

Description:

Values representing the difference between the design and actual fiducial measurements.