

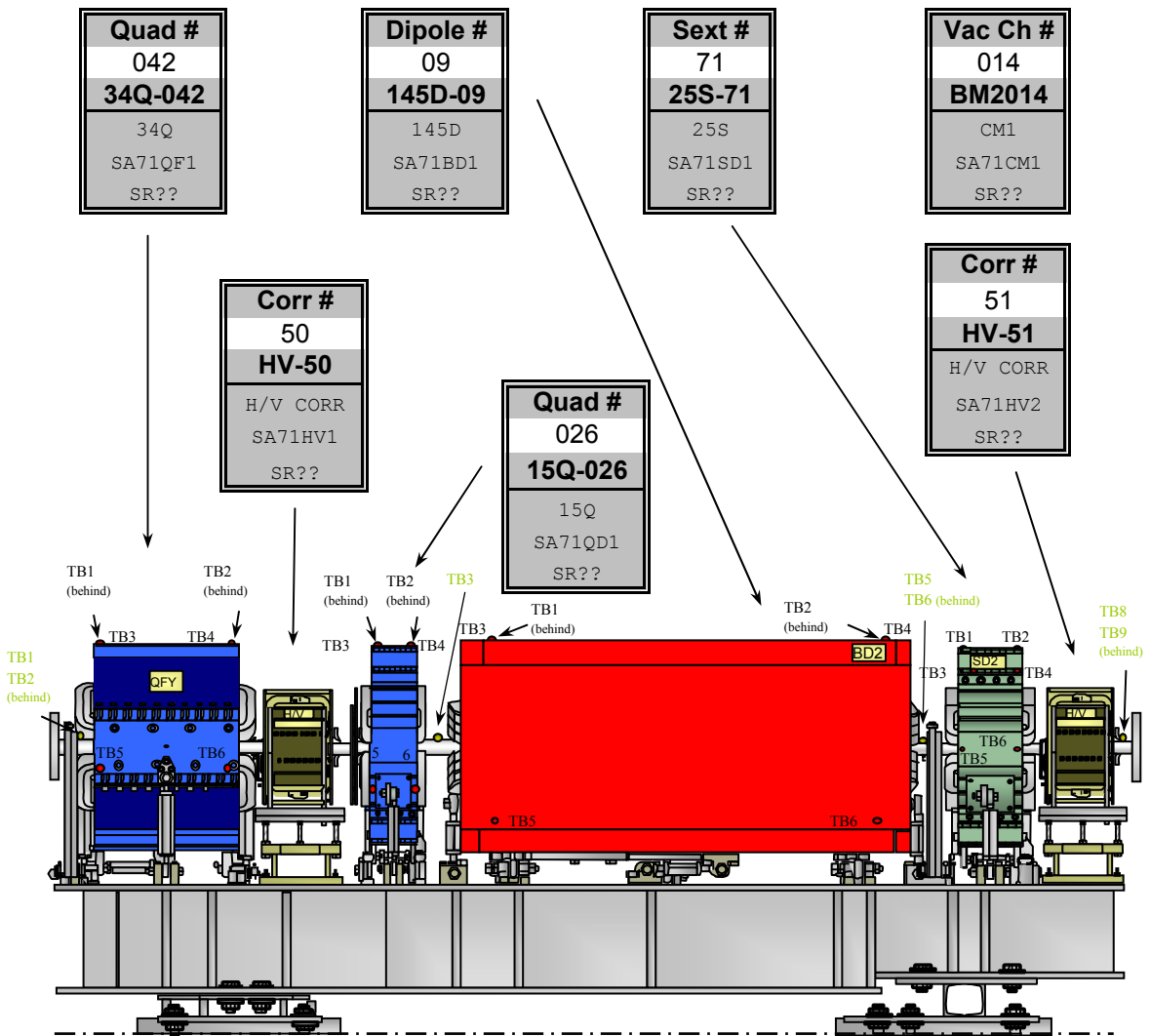
Raft Description:

Date December 4, 2002

Raft # 71 145D-71	Type 1 145D T-1	Bld. 750 Name SA71	S3 Ring Name SR??
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Notes:

The above date represents the latest fiducial date of all components listed below.



Quadrupole: Fiducial Values for Upstream (34Q) Quadrupole

Fiducial	Z	X	Y
TB1	-6.314	11.245	16.199
TB2	6.319	11.252	16.202
TB3	-6.319	-11.245	16.201
TB4	6.356	-11.246	16.202
TB5	-5.212	-15.201	-4.724
TB6	4.525	-15.201	-4.726

inches inches inches

QUADRUPOLE
34Q-042

SA71QF1
SR??

10/29/01

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

Vacuum Chamber: Fiducial Values for BM2 Vacuum Chamber

Fiducial	Z	X	Y
TB1	-77.159	-6.281	4.379
TB2	-77.228	7.228	4.375
TB3	-34.847	0.062	4.371
TB4	0.321	4.048	2.375
TB5	34.443	-4.783	4.358
TB6	35.780	2.413	4.372
TB7	53.877	-4.290	2.422
TB8	58.057	-12.381	2.951
TB9	60.954	2.975	2.957
TB0	N/A	N/A	N/A

inches inches inches

VACUUM CHAMBER
BM2014

SA71CM1
SR??

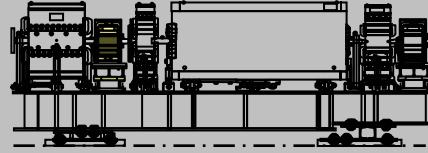
12/4/02

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

HV1 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
	inches	inches	inches

**HV1 CORRECTOR
HV-50**



SA71HV1
SR??

No Date

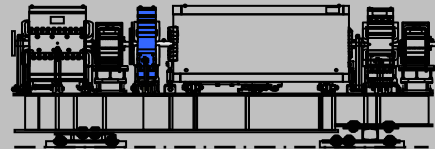
Description:

Fiducials based on known nominal values.

Quadrupole: Fiducial Values for Upstream (15Q) Quadrupole

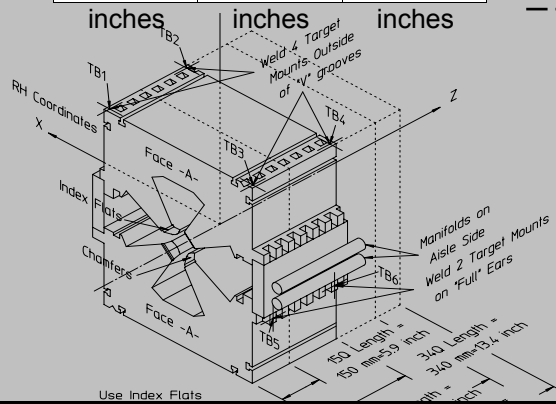
Fiducial	Z	X	Y
TB1	-2.568	11.250	16.197
TB2	2.547	11.244	16.201
TB3	-2.552	-11.232	16.200
TB4	2.560	-11.244	16.200
TB5	-1.466	-15.199	-4.790
TB6	2.440	-15.200	-4.802
	inches	inches	inches

**QUADRUPOLE
15Q-026**



SA71QD1
SR??

9/7/01



Description:

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

Gradient Dipole: Fiducial Values for Dipole (145D)

Fiducial	Z	X	Y
TB1	-26.546	3.429	17.005
TB2	26.535	3.430	17.010
TB3	-26.529	-22.376	17.001
TB4	26.537	-22.415	17.002
TB5	-26.664	-24.262	-11.581
TB6	26.465	-24.273	-11.480

inches inches inches

GRADIENT DIPOLE
145D-09

SA71BD1
SR??

1/17/02

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

Sextupole: Fiducial Values for 25S Sextupole

Fiducial	Z	X	Y
TB1	-4.359	4.202	15.509
TB2	4.338	4.202	15.512
TB3	-4.419	-10.530	12.519
TB4	3.394	-10.519	12.526
TB5	-4.557	-15.061	0.048
TB6	4.570	-15.061	0.075

inches inches inches

SEXTUPOLE
25S-71

SA71SD1
SR??

8/13/01

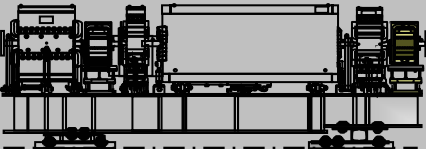
Description:
Fiducials based on values posted on web-page. (Check for updates.)

HV2 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

inches inches inches

**HV2 CORRECTOR
HV-51**



SA71HV2
SR??

No Date

Description:
Fiducials based on known nominal values.

Building 750 Deck: Positions of Component Origins

750 Name	Z	X	Y	Yaw
SA71QF1	-4.114	-0.311	0.000	10.5882
SA71QD1	-3.485	-0.194	0.000	10.5882
SA71CM1	-2.450	0.000	0.000	10.5882
SA71BD1	-2.447	-0.034	0.000	5.2941
SA71SD1	-1.367	0.000	0.000	0.0000

meters meters meters degrees

Date of Deck File: March 10, 2003

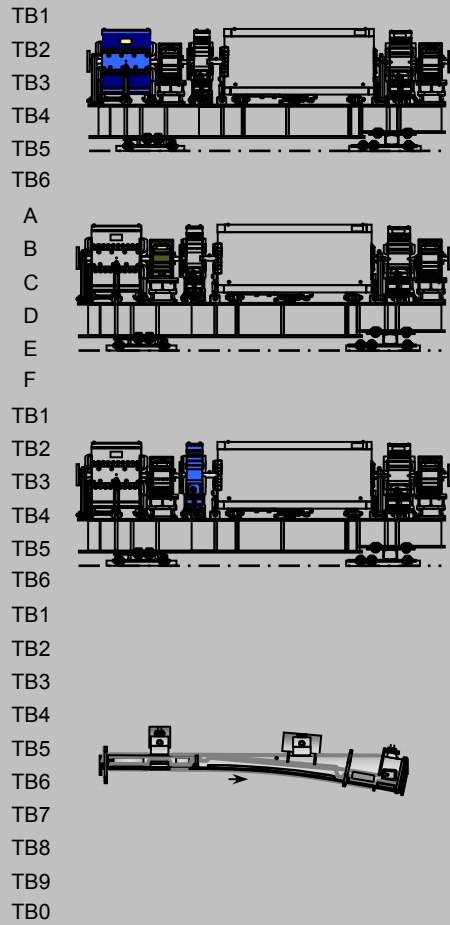
Location of Raft: EAST

145D-71

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)
SA71QF1	0.015	-0.003	0.004
	0.015	-0.009	-0.002
	0.007	0.001	0.002
	0.005	0.001	-0.003
	0.005	0.001	0.000
	0.003	0.000	-0.003
SA71HV1		-0.005	
		-0.008	
		-0.005	
		-0.003	
			-0.004
			0.003
SA71QD1	0.000	-0.009	0.000
	-0.005	-0.006	0.003
	-0.003	-0.003	-0.006
	-0.007	0.000	0.000
	0.000	0.000	0.000
	0.001	0.001	-0.004
SA71CM1	-0.002	0.007	3.000
	0.001	0.003	-0.001
	-0.005	0.022	-0.001
	0.001	0.016	-0.002
	-0.009	-0.001	0.004
	-0.003	-0.006	-0.002
	0.000	0.000	0.000
	-0.011	-0.016	0.017
	0.000	-0.017	-0.011
	N/A	N/A	N/A
	inches	inches	inches



Latest File Date: March 11, 2003

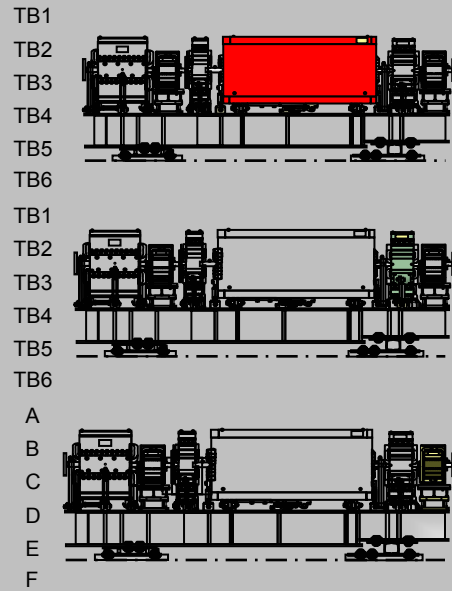
145D-71

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)
SA71BD1	0.005	0.000	0.003
	0.001	-0.002	0.003
	0.000	0.007	-0.003
	0.005	0.006	-0.004
	0.003	0.012	-0.002
	0.000	0.005	-0.003
SA71SD1	-0.015	0.002	-0.001
	-0.017	0.002	-0.002
	-0.004	0.006	0.000
	-0.006	0.003	0.003
	-0.004	0.001	-0.001
	-0.002	0.004	0.000
SA71HV2		-0.003	
		-0.006	
		-0.010	
		-0.005	
			-0.004
			-0.003
	inches	inches	inches



Latest File Date: March 11, 2003

145D-71

Description:

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