

# Fiducial Data Summary for 50Q Rafts

50Q-34

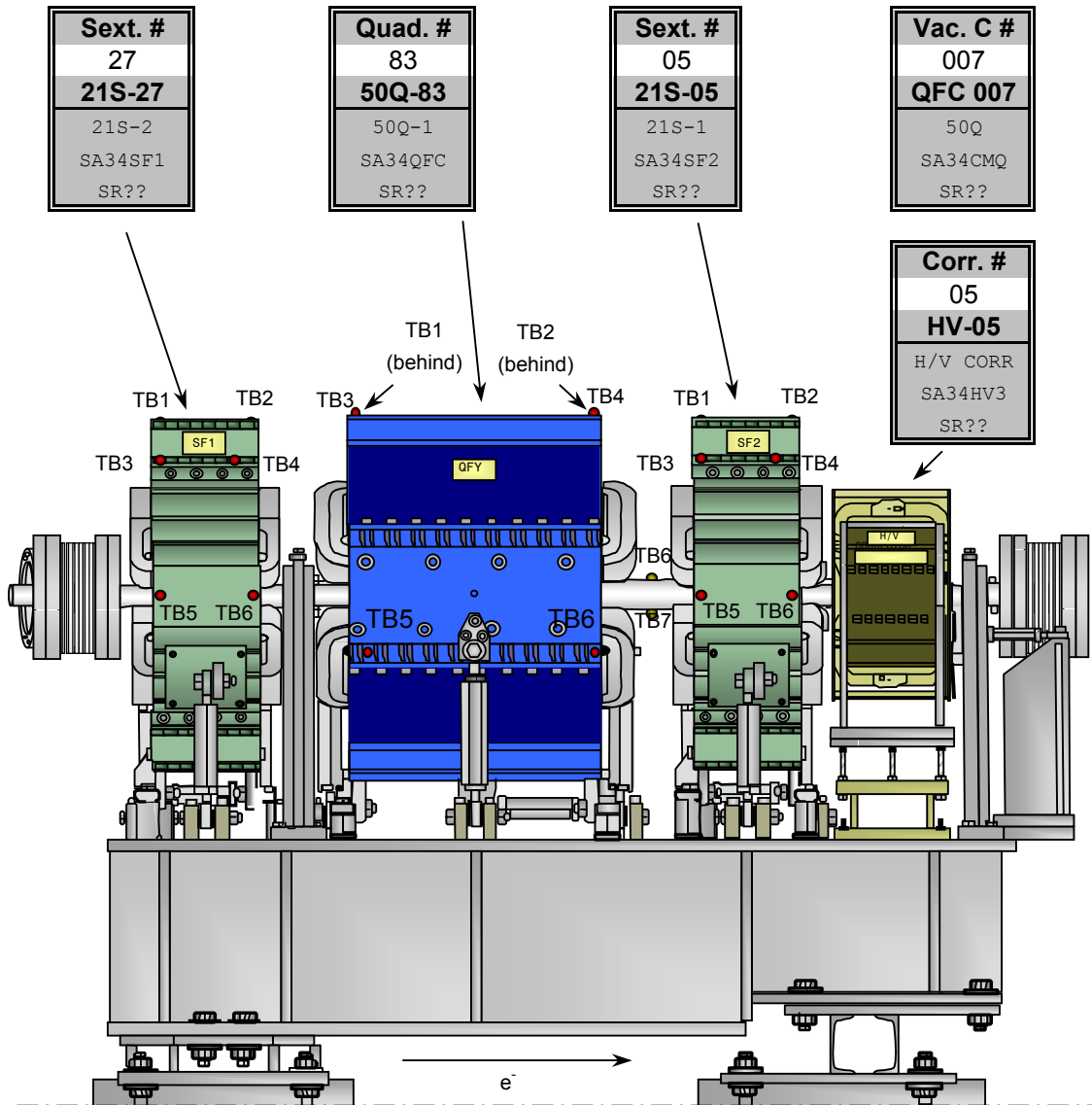
Raft Description:

Date November 27, 2001

<b>Raft #</b> 34 50Q-34	<b>Type</b> 1 50Q T-1	<b>Bld. 750 Name</b> SA34	<b>S3 Ring Name</b> SR??
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Notes:

The above date represents the latest fiducial date of all components listed below.  
SPEAR3 Ring number not yet known.



**Sextupole: Fiducial Values for Upstream (21S-2) Sextupole**

Fiducial	Z	X	Y
TB1	-3.470	4.216	15.506
TB2	3.573	4.203	15.504
TB3	-3.633	-10.505	12.537
TB4	2.350	-10.514	12.532
TB5	-3.754	-15.062	0.063
TB6	3.726	-15.061	0.046

inches inches inches

SEXTUPOLE  
21S-27

SA34SF1  
SR??

11/27/01

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

**Quadrupole: Fiducial Values for Quadrupole (50Q-1)**

Fiducial	Z	X	Y
TB1	-9.443	11.232	16.202
TB2	9.433	11.244	16.208
TB3	-9.428	-11.245	16.205
TB4	9.473	-11.229	16.201
TB5	-8.356	-15.201	-4.738
TB6	9.313	-15.202	-4.733

inches inches inches

QUADRUPOLE  
50Q-83

SA34QFC  
SR??

10/30/01

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

**Sextupole: Fiducial Values for Downstream (21S-1) Sextupole**

Fiducial	Z	X	Y
TB1	-3.651	4.149	15.517
TB2	3.719	4.164	15.513
TB3	-3.634	-10.495	12.541
TB4	2.258	-10.506	12.535
TB5	-3.743	-15.063	0.038
TB6	3.756	-15.061	0.012

inches      inches      inches

**SEXTUPOLE**  
**21S-05**

SA34SF2  
SR??

11/14/01

**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

inches      inches      inches

**H/V CORRECTOR**  
**HV-05**

SA34HV3  
SR??

No Date

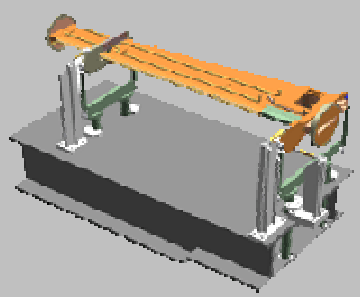
**Description:**  
Fiducials based on known nominal values.

**Vacuum Chamber: Fiducial Values for QFC (50Q) Vacuum Chamber**

Fiducial	Z	X	Y
TB1	-13.889	-3.352	4.419
TB2	-13.949	7.316	4.366
TB3	37.458	-5.507	4.409
TB4	37.542	13.309	2.966
TB5	33.442	7.595	2.076
TB6	13.427	2.547	2.344
TB7	13.389	2.595	-2.313

inches      inches      inches

**VACUUM CHAMBER**  
**QFC 007**



SA34CMQ  
SR??

8/6/01

**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
SA34SF1	-0.535	-3.500	0.000	0.0000
SA34QFC	0.000	-3.500	0.000	0.0000
SA34CMQ	0.000	-3.500	0.000	0.0000
SA34SF2	0.535	-3.500	0.000	0.0000

meters      meters      meters      degrees

Date of Deck File: April 16, 2002

Location of Raft: WEST

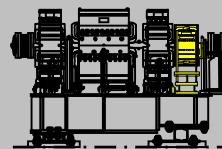
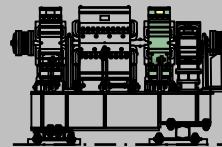
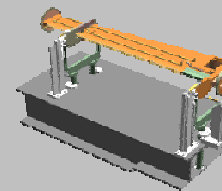
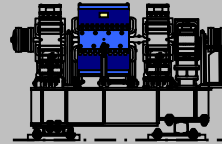
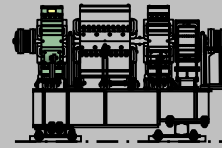
50Q-34

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

**Building 750 As-Built:**

750 Name	delta Z	delta X	delta Y ( delta H )
SA34SF1	-0.004	-0.001	0.004
	-0.011	0.001	0.003
	0.000	0.001	-0.001
	-0.006	0.004	0.002
	-0.003	0.002	-0.006
	-0.001	0.003	0.003
SA34QFC	-0.003	-0.002	0.002
	-0.010	0.004	0.005
	0.000	0.004	0.001
	0.000	0.002	0.000
	-0.003	0.006	0.003
	-0.006	0.000	-0.003
SA34CMQ	0.011	0.000	-0.004
	0.007	-0.003	0.000
	-0.005	0.001	0.004
	-0.005	-0.005	0.004
	-0.006	-0.002	0.004
	0.003	-0.007	-0.011
	N/A	N/A	N/A
SA34SF2	-0.007	-0.001	0.002
	-0.009	0.004	0.002
	-0.003	-0.001	-0.002
	-0.006	0.000	0.002
	-0.001	0.005	-0.002
	-0.002	0.002	-0.004
SA34HV3		-0.003	
		0.009	
		0.000	
		0.005	
			0.000
			-0.004
	inches	inches	inches

- TB1
- TB2
- TB3
- TB4
- TB5
- TB6
- TB1
- TB2
- TB3
- TB4
- TB5
- TB6
- TB1
- TB2
- TB3
- TB4
- TB5
- TB6
- TB7
- TB1
- TB2
- TB3
- TB4
- TB5
- TB6
- A
- B
- C
- D
- E
- F



Latest File Date: March 6, 2002

**50Q-34**

**Description:**

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