



Jefferson Lab Alignment Group

Data Transmittal

TO: J. Fischer, O. Pastor

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Checked:

: B1541

DETAILS:

data : inspection\hallb\shielding plates\140108A

The shielding plates for the Hall B Torus magnet were measured January 14th, 2014. Listed below are the results for back panel D [ref dwg B00000-04-01-1226 revB]. The table's columns below are as follows:

Name – name for the circle / bolt hole measured referenced to the plot at the bottom

dVec – sum of the error found versus design

dRad – difference in the radius found versus design

dX – difference in X coordinate (design – found)

dY – difference in Y coordinate (design – found)

dZ – difference in height (design – found) for points on bent plane.

Units are millimeters. Bent section data follows the Sketch on final page.

Ideal	dVec	dRad	dX	dY
ci_bd1	0.049	-0.040	0.045	0.02
ci_bd2	0.062	-0.040	0.055	0.029
ci_bd3	0.058	-0.040	0.055	0.018
ci_bd4	0.075	-0.040	0.065	0.037
ci_bd5	0.072	-0.040	0.055	0.046
ci_bd6	0.078	-0.040	0.055	0.055
ci_bd7	0.070	2.130	-0.035	0.06
ci_bd8	0.049	2.433	0.049	-0.003
ci_bd9	0.054	2.080	0.052	-0.013
ci_bd10	0.084	2.090	-0.008	-0.083
ci_bd11	0.161	2.100	-0.148	-0.063
ci_bd12	0.132	2.080	-0.128	-0.033
ci_bd13	0.070	2.080	-0.068	0.016
ci_bd14	0.053	2.150	-0.048	-0.024
ci_bd15	0.114	2.150	-0.108	0.036
ci_bd16	0.104	127.821	-0.088	0.056
ci_bd17	0.099	2.453	-0.098	0.005
ci_bd18	0.071	2.483	-0.048	-0.051
ci_bd18	0.154	2.413	-0.068	-0.138
ci_bd19	0.036	-0.026	0.030	0.021
ci_bd20	0.050	0.004	0.049	-0.01
ci_bd21	0.025	-0.017	0.025	0.001
ci_bd22	1.197	0.000	1.191	0.105
ci_bd23	6.200	-0.030	4.891	1.675
ci_bd24	0.053	2.000	0.052	0.007

The angle formed by the bent and main plane was found to be 58.633 degrees.
The coordinates calculated from where the intersection of the two planes occurred are:

Point	X[mm]	Y[mm]
1	1482.82	0.00
2	1209.78	684.80

