



# **Jefferson Lab Alignment Group**

## Data Transmittal

TO: B. Miller, D. Tilles

DATE: 03 Nov 2017

FROM: Kelly Tremblay

Checked:

# : B1827

**DETAILS:**

data: step2a\hallb\eti\_solenoid\171103a [rail data]

The hall B SVT / Target cart rails were surveyed on November 2<sup>nd</sup>, 2017. The results are shown below. The z distances are referenced from the 12 GeV target. The elevation or Y distances are from the minimal elevation. Units are millimeters unless noted.

Additionally the X values are shown from the minimal line.

Right Rail					Left Rail				
survey name	z distance from 12G Target [mm]	z dist from 12G Tar - inch	Delta Y from Beam	mm above low spot	survey name	z distance from 12G Target [mm]	z dist from 12G Tar - inch	Delta Y from Beam	mm above low spot
RTR_RR9	2058.8	81.1	2154.7	7.9	LTR_RR9	2187.3	86.1	2154.9	8.7
RTR_RR8	2518.8	99.2	2155.2	7.4	LTR_RR8	2662.2	104.8	2156.5	7.1
RTR_RR7	3247.7	127.9	2157.2	5.4	LTR_RR7	3257.0	128.2	2159.1	4.5
RTR_RR6	3804.3	149.8	2158.1	4.5	LTR_RR6	3811.2	150.0	2160.6	3.0
RTR_RR5	4350.7	171.3	2159.0	3.6	LTR_RR5	4339.3	170.8	2160.7	2.9
RTR_RR4	4462.9	175.7	2159.1	3.5	LTR_RR4	4376.1	172.3	2160.7	2.9
RTR_RR3	4916.4	193.6	2160.2	2.4	LTR_RR3	4541.3	178.8	2161.0	2.6
RTR_RR2	5340.4	210.3	2160.2	2.4	LTR_RR2	4853.0	191.1	2161.8	1.8
RTR_RR1	5820.9	229.2	2161.0	1.6	LTR_RR1	5241.0	206.3	2162.6	1.0
RTR_RR24	5896.7	232.2	2161.1	1.5	LTR_RR10	5717.1	225.1	2163.3	0.3
RTR_RR23	6369.6	250.8	2161.7	0.9	LTR_RR11	6744.0	265.5	2163.4	0.2
RTR_RR22	6748.5	265.7	2161.6	0.9	LTR_RR12	6781.9	267.0	2163.4	0.2
RTR_RR21	6777.4	266.8	2161.6	1.0	LTR_RR13	7312.8	287.9	2163.5	0.1
RTR_RR20	6932.9	272.9	2161.9	0.7	LTR_RR14	8515.3	335.2	2163.6	0.0
RTR_RR19	7237.1	284.9	2161.9	0.7	LTR_RR15	8775.8	345.5	2163.4	0.2
RTR_RR18	7898.9	311.0	2162.4	0.2	LTR_RR16	9147.3	360.1	2163.0	0.6
RTR_RR17	8359.3	329.1	2160.9	1.7	LTR_RR17	9181.3	361.5	2162.9	0.7
RTR_RR16	8753.3	344.6	2161.5	1.1	LTR_RR18	9570.8	376.8	2163.3	0.3
RTR_RR15	9151.8	360.3	2161.1	1.5	LTR_RR19	10978.2	432.2	2162.6	1.0
RTR_RR14	9180.6	361.4	2161.1	1.5					
RTR_RR13	9499.7	374.0	2161.9	0.7					
RTR_RR12	10052.6	395.8	2161.3	1.3					
RTR_RR11	10509.7	413.8	2161.2	1.4					
RTR_RR10	11008.9	433.4	2162.6	0.0					

Right Rail X values					Left Rail X Values				
survey name	z distance from 12G Target [mm]	z dist from 12G Tar - inch	X from centerline	X value from average	survey name	z distance from 12G Target [mm]	z dist from 12G Tar - inch	X from centerline	X value from Average
RTR_RR1X8	2085.6	82.1	-737.6	0.0	LTR_RR1X9	2239.4	88.2	733.6	-1.0
RTR_RR1X7	2725.6	107.3	-737.5	0.1	LTR_RR1X8	2799.7	110.2	735.0	0.5
RTR_RR1X6	3205.7	126.2	-737.4	0.2	LTR_RR1X7	3359.6	132.3	735.4	0.8
RTR_RR1X5	3765.8	148.3	-737.2	0.4	LTR_RR1X6	3919.4	154.3	735.0	0.4
RTR_RR1X4	4325.8	170.3	-737.6	0.0	LTR_RR1X5	4319.5	170.1	734.5	-0.1
RTR_RR1X3	4406.5	173.5	-737.6	0.0	LTR_RR1X4	4399.9	173.2	734.6	0.1
RTR_RR1X2	4646.6	182.9	-737.7	0.0	LTR_RR1X3	4559.8	179.5	734.3	-0.2
RTR_RR1X1	5206.4	205.0	-737.9	-0.3	LTR_RR1X2	4799.9	189.0	734.3	-0.2
RTR_RR1X	5846.5	230.2	-738.0	-0.4	LTR_RR1X1	5199.7	204.7	734.2	-0.3