



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** T. Whitlatch

**DATE:** 14 Dec 2017

**FROM:** J. Dahlberg

**Checked:** SEH

**# :** D1838

**DETAILS:**

Data: Step2B\HallD\171213a

Below are the results from the as found survey carried out on the Hall D Muon detector. All measurements are to the downstream face. Ideal machine beam center is X: 80.6000, Y:104.7000. A +X is to the beam left, and a +Y is above.

**Note:** The corner points on the outside frame had tape on the surface in some areas and therefore, the error of the points constructed below may be as much as 1.5mm. As seen from the offsets below, the fiducial values may define the center more accurately.

AS FOUND MACHINE COORDINATES (M)				OFFSET FROM IDEAL BEAM CL (MM)			
	Z	X	Y		X	Y	
<b>OUTSIDE FRAME</b>							
BOTT_BR	411.9366	79.7597	103.8638		-840.3	-836.2	
BOTTOM_BL	411.9443	81.3854	103.8652		785.4	-834.8	
TOP_BR	411.9358	79.7596	105.4913		-840.4	791.3	
TOP_BL	411.9435	81.3855	105.4911		785.5	791.1	
AVG CENTER	411.9401	80.5726	104.6779		-27.4	-22.1	
<b>FIDUCIAL HOLES</b>							
TOP_BL	411.9426	81.1815	105.4665		581.5	766.5	
TOP_BR	411.9368	79.9622	105.4659		-637.8	765.9	
BOTT_BR	411.9376	79.9621	103.8900		-637.9	-810.0	
BOTTOM_BL	411.9433	81.1812	103.8902		581.2	-809.8	
AVG CENTER	411.9401	80.5718	104.6781		-28.2	-21.9	