



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** T. Carstens, T. Whitlach

**DATE:** 23 Jan 2015

**FROM:** Chris Curtis

**Checked:**

**# :** D1594

**DETAILS:**

Data: \Geonet\Data\HallD\SRV14

Below are the results of the recent elevation survey (Srv14) in the Hall D region compared to surveys carried out over the last 4 years. The surveys of the previous years were normalized as much as possible such that the same monuments were used as baseline references. The location of the Hall D monuments can be seen in the accompanying diagram. All measurements are in meters.

TAGGER	Elev. (1/15)	Diff from 7/14	Diff from 1/13	Diff from 4/12	Diff from 10/11	Diff from 2/11
RNL0630	2102.9137	-0.0009				
RNL0640	2102.9034	-0.0007	-0.0018	-0.0024	-0.0052	-0.0197
RNL0650	2102.9020	-0.0007	-0.0015	-0.0020	-0.0044	-0.0183
RNL0670	2102.9118	-0.0006	-0.0017	-0.0025	-0.0057	-0.0198
RNL0680	2102.9058	-0.0008		-0.0026	-0.0055	-0.0197
	<b>Months:</b>	<b>6.1</b>	<b>24.0</b>	<b>33.1</b>	<b>39.1</b>	<b>47.0</b>
<b>1σ = 0.17mm</b>	<b>Avg Floor:</b>	<b>-0.0007</b>	<b>-0.0017</b>	<b>-0.0024</b>	<b>-0.0052</b>	<b>-0.0194</b>
COL. CAVE	Elev. (1/15)	Diff 7/14	Diff 1/13	Diff 4/12	Diff 8/11	Diff 2/11
RSD0020	2103.7152	-0.0003	-0.0012	-0.0010	-0.0016	-0.0042
RSD0030	2103.7225	-0.0004	-0.0012	-0.0011	-0.0016	-0.0037
RSD0040	2103.7237	-0.0005	-0.0012			
RSD0050	2103.7267	-0.0004	-0.0010			
RSD0060	2103.7241	-0.0004	-0.0010	-0.0008	-0.0008	-0.0011
RSD0070	2103.7298	-0.0004	-0.0010	0.0012	0.0013	0.0011
	<b>Months:</b>	<b>6.1</b>	<b>24.0</b>	<b>33.1</b>	<b>41.1</b>	<b>47.0</b>
<b>1σ = 0.31mm</b>	<b>Avg Col Cave:</b>	<b>-0.0004</b>	<b>-0.0011</b>	<b>-0.0004</b>	<b>-0.0007</b>	<b>-0.0020</b>
HALL D	Elev. (1/15)	Diff 7/14	Diff 1/13	Diff 4/12	Diff 8/11	Diff 2/11
RSD0160	2101.1955	-0.0003	-0.0007	-0.0004	0.0002	0.0006
RSD0180	2101.2029	-0.0002	-0.0006	-0.0002	0.0007	0.0010
RSD0320	2101.2095	-0.0004	-0.0006	-0.0004	0.0003	0.0005
RSD0360	2101.2096	-0.0004	-0.0006	-0.0005	0.0001	0.0009
RSD0390	2101.2069	-0.0003	-0.0002	-0.0002	0.0007	0.0012
RSD0430	2101.2107	-0.0005		-0.0004	0.0003	0.0005
RSD0440	2101.2073	-0.0004	-0.0007	-0.0005	0.0001	0.0007
RSD0480	2101.2092	-0.0001	-0.0005	-0.0001	0.0010	0.0014
	<b>Months:</b>	<b>6.1</b>	<b>24.0</b>	<b>33.1</b>	<b>41.1</b>	<b>47.0</b>
<b>1σ = 0.30mm</b>	<b>Avg Floor:</b>	<b>-0.0003</b>	<b>-0.0006</b>	<b>-0.0003</b>	<b>0.0004</b>	<b>0.0008</b>

### HALL D MONUMENT LOCATIONS

