



# Jefferson Lab Alignment Group

## Data Transmittal

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**Checked:** CG

**# :** M2106

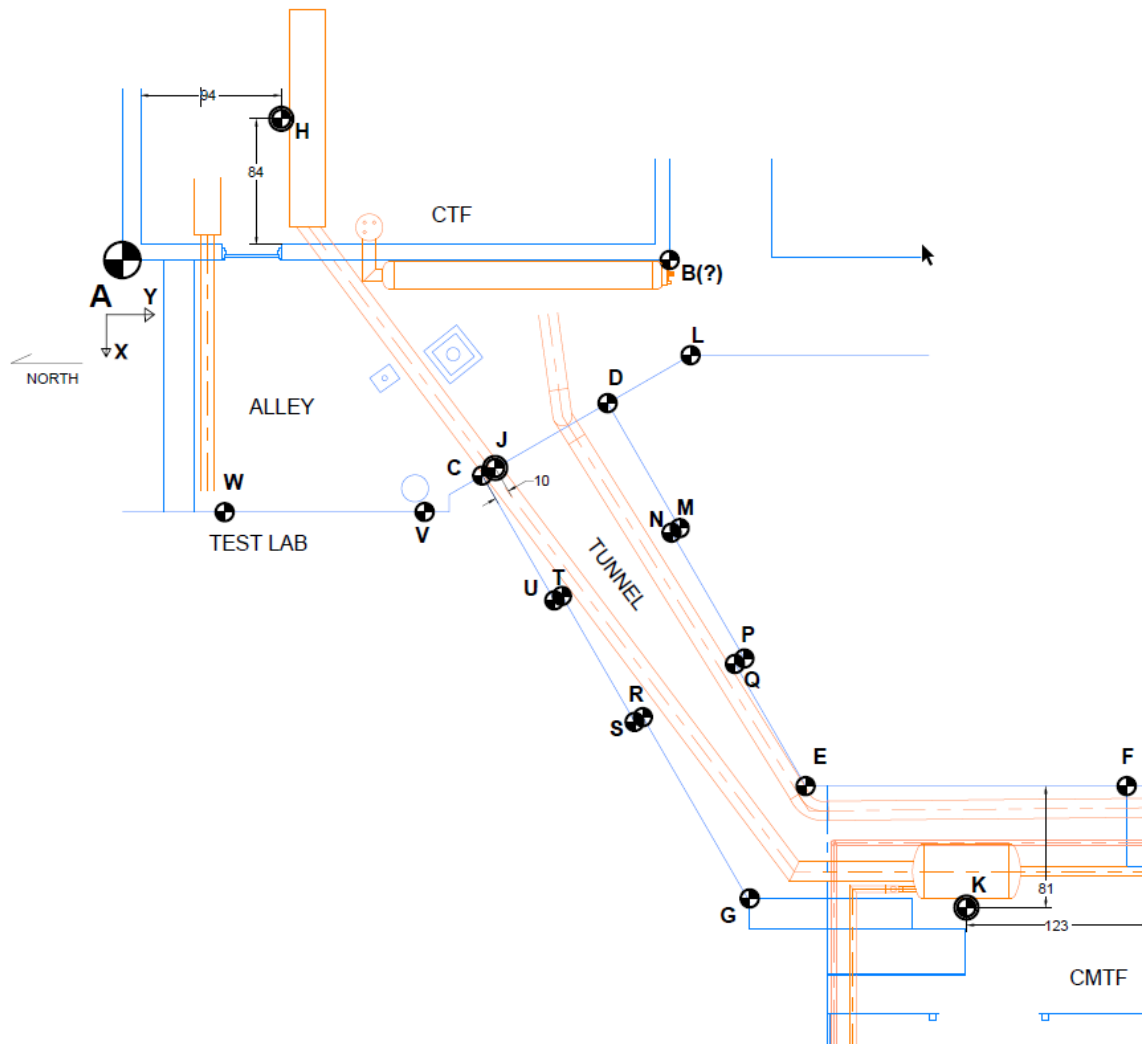
### DETAILS:

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Given the drawing in fig.1, survey and alignment was requested to locate key building features between the CTF (BLDG 57) and Test Lab (BLDG 58).

The reference frame is defined as follows: The primary axis is defined by gravity and controls pitch (rotX) and roll (rotY). The west wall of the CTF defines the secondary axis and controls yaw (rotZ). Origin is specified and requested in point A (1000,1000,1000). Positive z is up, positive Y is in a southerly direction along the west wall of the CTF (from point A to B), and positive X is in an westerly direction perpendicular to the west wall of the CTF.

All units are in inches.



In addition to the requested features, points L through W are building corners measured and added to the drawing.

| Points | X[inch]  | Y[inch]  | Z[inch]  |
|--------|----------|----------|----------|
| A      | 1000.000 | 1000.000 |          |
| B      | 1000.000 | 1363.799 |          |
| C      | 1143.847 | 1241.489 |          |
| D      | 1095.498 | 1325.296 |          |
| E      | 1352.190 | 1458.155 |          |
| F      | 1352.060 | 1688.358 |          |
| G      | 1428.373 | 1419.274 |          |
| H      | 905.076  | 1105.996 | 1001.553 |
| J      | 1138.634 | 1250.222 | 999.382  |
| K      | 1434.327 | 1563.555 | 999.611  |
| L      | 1063.475 | 1380.087 |          |
| M      | 1179.033 | 1373.255 |          |
| N      | 1182.194 | 1367.858 |          |
| P      | 1267.145 | 1415.500 |          |
| Q      | 1269.954 | 1410.772 |          |
| R      | 1304.963 | 1347.626 |          |
| S      | 1308.062 | 1342.347 |          |
| T      | 1224.615 | 1294.930 |          |
| U      | 1227.328 | 1289.927 |          |
| V      | 1168.250 | 1095.528 |          |
| W      | 1168.904 | 925.447  |          |