

## **CFLHD CENTERLINE REFERENCE AND TERRAIN VERIFICATION SPECIFICATIONS**

- I** Check existing control:
  - (a) Perform observations of existing CFLHD control monuments and compare the results to the PS&E Survey Control Sheet;
  - (b) Analyze the data to determine if the control meets CFLHD standards and;
  - (c) Notify the Survey Manager if the control fails to meet CFLHD standards.
  
- II** Set centerline reference points at 100 foot (30m) intervals, according to the following:
  - (a) Use substantial monumentation (oak hub, steel pin, etc.) that will maintain horizontal and vertical integrity through the anticipated construction project;
    - (1) Set monuments to within 0.10 foot (30mm) of the true horizontal and vertical position relative to the CFLHD control monuments;
    - (2) Monuments may be set on either side of the alignment as field conditions allow in order to make the references practical;
    - (3) A single reference monument may be set at the radius point for small curves where practical and;
  - (b) Set 1"x 2"x 18" pine guard stake painted white at reference hubs and marked with the centerline station and offset distance to centerline.
  
- III** Map the corridor according to CFLHD Mapping Ground Topography and Planimetric Specifications and provide the following:
  - (a) Process the data and create a 3D MicroStation® CAD .map file showing all planimetric features and contours and;
  - (b) Create a Geopak® .TIN file for the corridor.
  
- IV** Provide additional control to supplement existing CFLHD control according to CFLHD Accuracy Standards by Type of Survey for 5000 Series Supplemental Control. The additional control is to be set outside construction limits, such that the monuments will remain stable and usable for the entire construction project.
  
- V** Update the PS&E Survey Control Sheet, to include the 5000 Series Supplemental Control, according to the CFLHD Survey Control Sheet Specifications.