CFLHD SURVEY CONTROL SHEET SPECIFICATIONS

I Prepare Survey Control Sheet(s) to be included with the PS&E Package. The purpose of the Survey Control Sheet is to list the coordinates, pertinent metadata, and graphically show the location of all Primary (2000 & 3000 Series) and Supplemental (5000 Series) Control Monuments for a particular project. Survey Control Sheets include the following:

(a) Use the standard FHWA border;

(1) Place text in accordance with the CFLHD CADD Standards Manual, Chapter 5 – Annotation Standards and Specifications;

(2) Place the following information in the upper left hand portion of the sheet:
   (a) The Project Designation and Project Name;
   (b) Date(s) of Field Work, by whom;
   (c) Date of Final Adjustment, by whom;
   (d) Project Units (Horizontal & Vertical);
   (e) Project Coordinate System:
      (1) State Zone;
      (2) Horizontal Datum (Epoch);
      (3) Geoid Model; and
      (4) Statement describing the horizontal control monument(s) and the datum used as a basis for the establishment of coordinate values;
   (f) Vertical Datum:
      (1) A statement describing the vertical control monument(s) and the datum used as a basis for the establishment of elevation values; and
   (g) The GPK file, Chain(s) used to define the Alignment,

(3) Place the following information in the upper right hand portion of the sheet:
   (a) See FP-14, Sections 107.02 and Section 152 for Surveying and Staking Requirements. Set permanent monuments according to FP-14, Section 621.

(4) A table listing:
   (a) Point Number;
   (b) Northing;
   (c) Easting;
   (d) Elevation;
   (e) Latitude;
   (f) Longitude;
   (g) Ellipsoid Height;
   (h) Mapping Angle;
   (i) Combined Factor;
   (j) Station and Offset from the final alignment and;
   (k) Description of Monument and stampings.
   Note: Northing and Easting coordinate values will be State Plane Grid Coordinates.

(5) Place the following information in the lower right hand portion of the sheet:
   (a) The creation date of the Control Data Sheet and the initials of the responsible individual(s) and;
   (b) Modification dates of the Control Data Sheet and the initials of the responsible individual(s).

(6) Place the following statement in the lower left hand portion of the sheet;
Note: To precisely check distances between points as measured on the ground: inverse the State Plane Coordinates and divide the computed distance by the mean Combined Factor of the two points;

To compute Geodetic Azimuth, use the following formula: Geodetic Azimuth = Grid Azimuth + Convergence Angle.

Place an open triangle symbol (T-Point cell), centered on the stated coordinate values of the all Control Monuments, within the drawing. The open triangle symbol will have a printed height of 0.10”. Include the point number of the Control Monument in the drawing accordance with the CFLHD CADD Standards Manual, Chapter 5 – Annotation Standards and Specifications.