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;

- (a) 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;
- (*b*) To compute Geodetic Azimuth, use the following formula: Geodetic Azimuth = Grid Azimuth + Convergence Angle.
- (7) 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.