

**1151 GLOBAL POSITION SYSTEM (GPS) AS-BUILT OF PROJECT**

During construction of the project, as-built information shall be collected for the purpose of documenting the final installation of the contract bid items. This includes, but is not limited to, all final locations of structures, utilities, manholes, valves, storm drains, catch basins, curb and gutter, pavement, sign structures, light poles, pull boxes, FMS facilities, traffic signals, attenuation devices, barrier runs, and any other appurtenances that are included in the final as-built plan.

The electron data file shall be submitted to the Resident Engineer for the purpose of plotting the information prior to final acceptance. The file shall be compatible with Department CAD and GIS software. GIS file formats and feature codes will be obtained from the Department. The data shall include line and point features, as well as sufficient digital photo links to assure that the GPS information will accurately describe or explain the feature that has been captured. An example is a sign structure that shows up as a point/line feature across the roadway. A digital photo should be linked to the data feature showing the actual sign placard on the structure. Likewise, a link should be provided to the data containing scanned-in shop drawings or manufacturer cut sheets for specialty features such as parapet fence, and specialty structures.

The as-built locations of project items, including elevations shall be tied to the project datum. It may be necessary to include latitude, longitude of project items.

Precision of locations shall be equal to the precision used to stake the project item.