



**Mercer Island Right of Way Mapping; *City of Mercer Island, Washington***

White Shield performed GIS surveying and analysis as well as coordinating the AutoCAD data for the City of Mercer Island, Right-of-Way Data Development Project. The project involved the development of a GPS survey network and right-of-way mapping for the entire City of Mercer Island.

**Mason County GPS Control Survey & GIS Parcel Mapping; *Mason County, Washington***

As the GIS consultant to Mason County, White Shield was responsible for the development of a GPS survey network and the development of a high accuracy parcel base map for the new County GIS database. White Shield worked directly with the County Public Works Department sharing responsibility of field data collection and office support, training of County personnel in GPS usage, assisted in GIS Database design, and the preparation of electronic documents required by the County. The PLSS grid was developed at approximately 1 mile spacing, using Static/RTK GPS methods and conventional traverse, and involved 500± PLSS corners in 350± sections. Research of timber company, local surveyor, and County/State survey records was also employed. Section breakdown was calculated to the 1/16 line level, and GIS mapping was provided for the construction of 26,800± parcels using survey COGO techniques in 188 sections, as identified by the project owner.

**Benton County GPS Control Survey & GIS Parcel Mapping; *Benton County, Washington***

White Shield developed a GIS base map of 1090 parcels located within Benton County, WA. Survey control was established on over 40 aerial pre-marks for countywide orthophotography (50 mi x 35 mi), and drawing files were provided named for the Section, Township, and Range of each section constructed. White Shield ensured that all project elements were on their appropriate layers, and that all of the layers followed the project layer listing scheme. Topology was created for the section, and each polygon was created with a block symbol, with attached attributes for each polygon. Polygon block attributes for each section were compared to the County Assessor list for accuracy and completeness.

**City of Issaquah GIS Base Map; *City of Issaquah, Washington***

White Shield conducted surveys of 29 PLSS corners for the GIS base mapping of six sections. Locating and controlling with GPS RTK verified the existing control for uniformity with HARN network. All PLSS corners were calculated to the 1/4 level.

**Puget Sound Light Rail, GPS Control for Aerial Mapping, Seattle, WA; *Washington State Department of Transportation***

Under contract to the Washington State Department of Transportation, White Shield determined coordinate values of over 400 aerial survey targets, using Real Time Kinematic (RTK) GPS technology. This was in support of WSDOT's aerial mapping of a proposed 30-mile, \$1.7 billion light rail corridor from Seattle-Tacoma International Airport to Northgate Shopping Center.