March 19, 2009

Project Status Summary:

Using GIS to Improve Transportation Network Development & Management

Purpose: To obtain consultant assistance for improving the TPB's GIS capabilities in support of highway and transit network development and management.

Budget: Phase I: $75,000   (FY-2008 / last Fiscal Year)
Phase II: $75,000 (FY-2009 / current Fiscal Year)
Total $150,000

Study Team: Ron Milone, Charlene Howard, Bob Snead
Consultant Retained: Daniel Consultants, Inc. (Columbia, Maryland)

Study Activities:

Phase I   1) Evaluation of existing network development procedures
2) Assessment of user needs
3) Formulation of functional requirements
4) Development of prototype highway geodatabase and ArcGIS editing tools

Phase II   1) Incorporation of transit elements in geodatabase and ArcGIS tools
2) Population of existing TPB network data into geodatabase
3) Refinement of ArcGIS tools to include transit elements
4) Debugging of ArcGIS tools based on software testing by TPB staff
5) Preparation of documentation and training materials

Products:
- Populated geodatabase containing highway and transit network attributes for multiple years
- ArcGIS-based application customized for editing highway and transit network elements over time and exporting network inputs to the Version 2.3 model
- Assistance with establishing the ArcGIS application in a multi-user environment
- Documentation (users guide, training material, other supporting technical information)

Current Status: Three versions of the populated geodatabase and application tools have been delivered to TPB since January. TPB staff has reviewed the highway and transit network elements in the geodatabase for completeness and accuracy (a relatively minor number of errors have been found). Staff is continuing functionality checks of the ArcGIS application and is reporting errors to the consultant. Some elements of the contract are outstanding (batch updating procedures and assistance with installing the multi-user capabilities of the application).

Project Completion Date: June 30, 2009