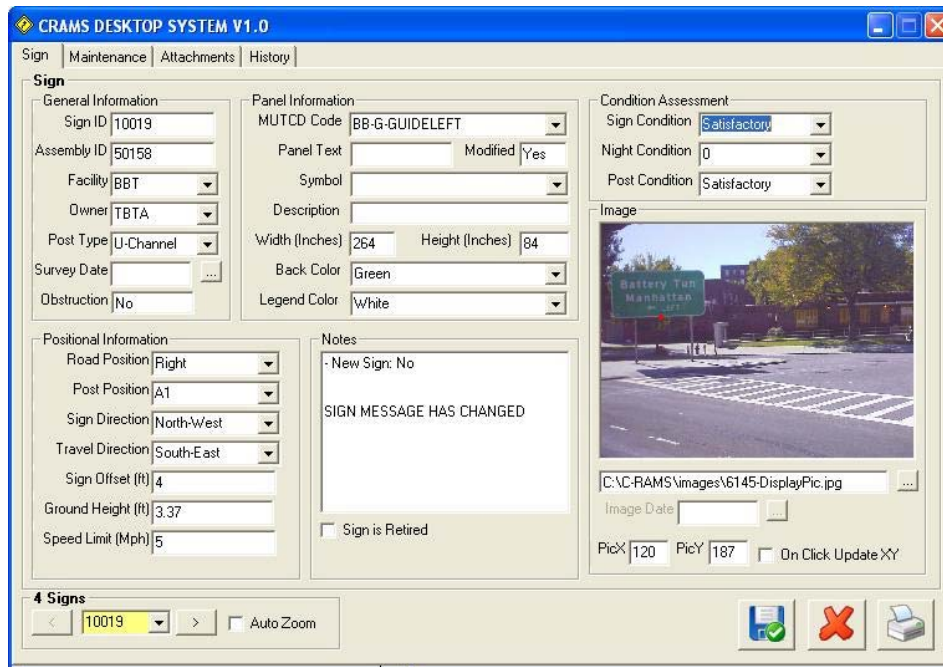


## Computerized System to Map All Traffic Signs using GIS at All TBTA Facilities



**Owner:** Triborough Bridge & Tunnel Authority

**Project Location:** Various Locations, NY

GPI was retained to develop, furnish and install a Computerized Roadway Asset Management System to map and manage various transportation infrastructure assets at TBTA's seven bridges and two tunnels throughout the five boroughs of New York City using Geographic Information System (GIS) technology. The project utilized video van technology equipped to provide high-resolution digital imagery of the facilities and determine asset locations using differential and inertial Global Positioning Systems (GPS). Using GIS as the backbone, the enterprise level management system easily incorporated into other enterprise level systems in use at the Authority. The system was developed with the ability to generate user-defined reports and contains a web viewing component for use over the Authority's Intranet. GPI provided the necessary training and technical support services to educate users in setup and installation procedures, system operations, user interface options and overall system maintenance procedures. Integration of these technologies into a seamless management system enabled the Authority to effectively manage the existing infrastructure and plan for the future at each of the facilities.

Following delivery and successful implementation of the system, GPI updated the data by collecting, processing and integrating new digital imagery at the various facilities. The update was performed and delivered approximately one year after the initial system delivery and GPI provided an on-going system warranty for the contract duration including necessary technical support, telephone support, troubleshooting, on-site visits, training, and application deployment.

The Authority executed an optional task in the contract to upgrade and expand the system. The task includes implementation of system upgrades to interface with recently implemented applications related to overall utility and facility maintenance activities, development of a conversion program related to New York State implementation of the National MUTCD and associated sign code updates, development of an updated data flow process for management of sign assets and implementation of an expanded training effort.