Project Title: C-06-05: Automatic Vehicle Classification System (AVC)
PIN: R020.78.881
Responsible Unit: Thruway Authority, Maintenance and Operations
Project Manager: DiVirgilio, Aldo

Project Goal:
The goal of this project is to increase the reliability of the Thruway’s E-ZPass system and increase the mobility of customers by researching and developing an Automatic Vehicle Classification System that would verify the tag class of vehicles in dedicated E-ZPass lanes. Once implemented the system would eliminate the need for E-ZPass customers to use staffed lanes when they are in a vehicle of a different class than that programmed on their E-ZPass tag. These conditions occur when a tandem vehicle must enter the Thruway system as a single, when a passenger vehicle hauls a trailer, and other times when a vehicle axle or height are different than what is registered for the E-ZPass tag.

Actions Proposed:
Major steps in this project are:
1) Research performance from existing sites that contain equipment that may be suited for the AVC system
2) Research new technologies at these sites for AVC
3) Determine the type of image verification required to identify the appropriate class when a vehicle’s tag class and AVC class are different
4) Develop a design for the AVC infrastructure and software
5) Install prototypes in all four New York State Thruway Divisions (New York, Albany, Syracuse, and Buffalo)
6) Determine the cost effectiveness to deploy AVC in staffed lanes
7) Develop business rules to handle tag class
8) Develop business processes for violation administration
9) Finalize the AVC design and deploy it using contracted forces to all lanes that can operate in dedicated E-ZPass mode (exit lanes only)

Anticipated Work Products and Accomplishments:
This project would include the installation of AVC equipment and an AVC Video Enforcement System (VES) within each dedicated E-ZPass exit lane. Additionally, the project would include the development of software to process AVC transactions and development of policy and procedures for the processing of AVC transactions.

Proposed Budget: $175,000