Project Title: C-06-32 : Demonstration of Detection-Control System for High-Speed Signalized Intersections

PIN: R020.83.881
Responsible Unit: Traffic Engineering & Hwy Safety, R-3
Project Manager: Litteer, John

Project Goal:
The goal of this project is to demonstrate an existing commercial traffic control system, which has the claimed capability of minimizing both delay and crash frequency at rural intersections. The system uses a detector speed trap, located upstream of the intersection to monitor vehicles and hold the green signal indication until they are safely clear of the intersection. The proposed system claims to improve safety by reducing red-light-running and rear-end crashes over a wide range of traffic volumes.

Actions Proposed:
Naztec has developed a detection control system which monitors the oncoming traffic and speed and changes the phase of the lights to allow for a minimized delay, while also giving green light priority to large trucks. The key to this system is the advanced computer processing used to forecast the best time to end the signal phase in real time. The proposed project will select two candidate sites in conjunction with NYSDOT, design the sites, install the facilities, train the users of the system, and collect intersection operation, red-violation, and traffic safety data.

Anticipated Work Products and Accomplishments:
• Site selection and Design
• Installation Subcontracts
• Data Collection and Analysis
• Outreach and Technology Transfer
• Monthly Progress Reports
• Final Report

Proposed Budget: $149,600