



Project Name: ITS Traffic Signal Improvements, Phase II
Project Type: Design Construction Inspection
Location: City of Troy
 Rensselaer Countv. New York
Construction Cost: \$3.2 Million
Completion Date: Design complete in 2008
 Construction complete in 2009

Project Highlights

- Replaced antiquated traffic signal equipment at twenty-two (22) intersections
- Provided coordinated traffic signal system within the Historic Central Business District
- Upgraded sidewalk ramps and pedestrian crosswalks
- Provided for emergency pre-emption and transit priority signal timing

Project Description:

A Locally Administered Federal Aid Project, Phases I-VI, to replace 22 traffic signals within the historic Central Business District in the City of Troy. The new system is multi-modal, accommodating passenger, emergency and transit vehicles; pedestrians, transit stops and shelters; and on-street parking. The NTCIP compliant signal system is designed to provide multiple coordination plans all controlled by a central computer system. An ITS Systems Engineering Analysis was prepared to ensure compatibility with the Capital District, NY Regional ITS Architecture to facilitate future integration into the regional transportation management system. The project design incorporates items such as period-style signal poles, modern signal controllers, LED signal indications, pedestrian detection, and pedestrian countdown timers. This was accomplished through a cooperative public outreach process sensitive to being located within several National and Local Historic Districts.

CME Role:

Creighton Manning Engineering was responsible for the preparation of all preliminary and final design plans and construction inspection. CME provided the Resident Engineering to ensure conformance with the provisions of the Contract Documents and NYSDOT Standard Specifications. Construction inspection services included detailed inspection, field measurements, computations / reports, Progress and Final Estimates, and Shop Drawing Review and Approval. Additional services provided by CME include:

- Traffic analysis & micro-simulation modeling
- Traffic signal design for 22 intersections
- Prepared design approval document
- Developed optimized timing plans using Synchro
- Coordinated traffic signal system plans
- Context sensitive design

Client : City of Troy
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 Troy, NY 12180

Reference: Russ Reeves, City Engineer
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