



Project Name: Old County Route 57 (CR91)
Closed Loop Signal System

Project Type: Traffic Analysis & Signal Design

Location: Town of Salina
Onondaga County, New York

Construction Cost: \$ 3,000,000

Completion Date: 2004

Project Highlights

- Traffic counts and analysis for twelve (12) signalized intersections in congested suburban corridor
- Designed closed loop traffic signal system
- Locally administered Federal Aid design project

Project Description:

Creighton Manning Engineering (CME) evaluated the operation of 12 signalized intersections along Old Route 57 (CR 91). As part of this project, manual turning movement counts were conducted for three weekday peak periods and a typical Saturday peak period. In addition, automatic traffic count machines were used to measure the variation of traffic flow on an hourly basis. Once base traffic conditions were established, traffic signal progression analyses were conducted using SYNCHRO to determine the optimum signal timing plans for each peak period. A closed loop traffic signal system was designed by CME for this corridor, complete with signal control plans, primary communication plans, vehicle detection, interconnect, layout, and details and specifications.

CME Role:

As a subconsultant for this Locally Administered Federal Aid highway reconstruction project, Creighton Manning Engineering was responsible for collecting and analyzing all traffic and safety information, preparing the traffic sections of the design approval document, and preliminary and final design of twelve traffic signals, including an intelligent traffic signal communication system.

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