



The LiRo Group

Client:

Suffolk County Department of
Public Works
335 Yaphank Avenue
Yaphank, NY 11980

Reference:

Richard LaValle, P.E.
Chief Deputy Commissioner
631-852-4002

Total Project Cost:

\$12,000,000

Completion Date: 2008

Project Overview:

LiRo prepared a Design Report/Environmental Assessment for the construction of improvements to a 1.7-mile section of Route 80, a principal arterial in Suffolk County, in the vicinity of CR 46 (William Floyd Parkway) to the vicinity of Mastic Road. The study determined the impacts of this project on the traffic, the environment, the community, and the retailers. Traffic data, accident data, and origination and destination studies were conducted. (SCDPW, \$12M)

County Route 80 Reconstruction from CR 46 to Mastic Road

Mastic, NY

LiRo is preparing a Design Report/Environmental Assessment for the construction of improvements to a 1.7-mile section of Route 80, a principal arterial in Suffolk County, in the vicinity of CR 46 (William Floyd Parkway) to the vicinity of Mastic Road. This work is being conducted for the Suffolk County Department of Public Works, but is being funded by the NYSDOT and must meet NYSDOT policies and procedures.



This stretch of road is predominantly a three-lane section, passing through a heavily traveled commercial area. The study will determine the impacts of this project on the traffic, the environment, the community, and the retailers. Traffic data, accident data, and origination and destination studies were being conducted. Meetings and public hearings will address concerns of the community and retailers in the area.

Various alternatives for addressing safety and mobility issues in the project corridor were developed and evaluated. Alternatives include maintaining the existing roadway configuration along the CR 80 corridor in conjunction with improvements in the NY 27 corridor; widening of the roadway to 5 lanes for the entire project length; and roadway improvements compatible with community visioning plans including modern roundabouts and raised median in planned Town centers. Future traffic projections were made by extrapolating data from the NYSDOT LITP 2000 Trans Plan Model output for the different networks. Traffic analysis of the alternatives were done utilizing the HCS and SYNCHRO software programs and for the roundabouts VISSIM and RODEL was used. The VISSIM software was also used to generate animated traffic simulations of existing and future conditions. Operational improvements of the congested intersection of CR 80/CR 46 by employing Traffic System Management measures entailing prohibition of some turning movements at the intersection were evaluated and are recommended.

The project includes positive storm drainage and intersection improvements, traffic signal improvements, and new installations with concrete curb and sidewalk. Acquisition of property will be required.



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Our work will also include preliminary and final design (Phases V-VI). All work is in conformance with the NYSDOT Highway Design Manual.

Key Features:

- Traffic survey data collection and traffic impact studies
- Capacity analysis
- O&D studies
- Speed and delay studies
- Accident analysis
- Traffic signal system design/operations
- MPT
- Pavement design
- Drainage design
- Pavement markings and signing
- Parking planning and design
- Congestion management
- Access management
- Circulation studies
- Transit planning
- TDM/TSM
- Urban planning and design
- Pedestrian/bicycle studies
- Community Outreach



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