

## Reconstruction of the Shelter Rock Road Interchange with the LIE (I-495) and Northern State Parkway, LIE Exit 35



*This project was the recipient of the ASCE Long Island Branch "2003 Project of the Year" Award*



*Construction Photos*

**Client/Owner:** New York State Department of Transportation

**Project Location:** Nassau County, NY

As part of the overall Capacity Improvement Projects of the Long Island Expressway Corridor between Exits 32 and 36, the Shelter Rock Road Interchange required re-alignment to complement the proposed alignment of the wider LIE. The project also involved a major shift in the alignment of Shelter Rock Road and the removal of the existing bridges and construction of two new Shelter Rock Road bridges over both the LIE and Northern State Parkway immediately west of the existing bridges. The project also involved the final design, preparation of Contract Plans, Specifications and construction cost estimate for the widening of the LIE pavement within the vicinity of the interchange, the re-alignment and widening of the access/aggress ramps and the service roads, roadway improvements to Shelter Rock Road, construction of new retaining walls, upgrading the existing drainage facilities including the construction of a new recharge basin at the Shelter Rock Road/Northern State Parkway interchange and the de-watering and rehabilitation of two existing recharge basins, maintenance and protection of traffic and construction staging, signing and striping, highway lighting, upgrading INFORM (ITS) facilities, and proving utility design and coordination with local utility companies.

Existing service roads were widened and re-alignment to meet the alignment of the new bridges. Additional turn lanes were provided based on the findings of a traffic study conducted to analyze the existing and future traffic patterns at the Shelter Rock Road and service road intersections.

This project involved substantial community participation during the design and construction and GPI was sensitive to the needs and desires of the local community that affected many aspects of the design and construction including project aesthetics, landscaping, measures for noise abatement, and maintenance and protection of traffic including construction staging. The project construction cost was \$45 million.