

## Route 63 over the Naugatuck River Naugatuck, CT

### Project Description:

**Location**

Naugatuck, CT

**Owner**

ConnDOT

**Duration**

2004-2006

**Prime/Sub**

Sub

**Construction Cost**

\$10 million

AI Engineers, inc. was selected to prepare the roadway portion of a bridge replacement and widening that required three stage construction due to high traffic volumes on the state highway. Signalized intersections were situated close to either end of the bridge and there were two roadways under the bridge. Of particular interest to the state was the busy super elevated western approach that featured a signalized intersection only a few hundred feet from the bridge construction. AI had to devise Maintenance and Protection of Traffic schemes that allowed controlled flow through the approach intersection and the bridge construction zones while always allowing truck traffic in each direction for three distinct phases of bridge construction. In addition, the existing structure contains a single sidewalk on the northern side of the bridge which was closed during two different phases of construction, and temporary pedestrian crossings (including new signals phases and ramps) had to be designed. The two local road underpasses required closure of work areas to local traffic. At the end of the bridge construction, all areas of impacted roadway at both approaches and underpasses were required to be full-depth reconstructed, with the inclusion of the latest safety improvements.

This project required traffic signal design, extensive knowledge of ConnDOT traffic control schemes and minimum geometric design allowances, and heavy coordination with DOT, local officials and the bridge design consultants.



### Salient Features

- Traffic counts and Capacity Analysis
- Lane Signal/intersection redesign.
- Stage construction /MPT Plans.
- Pavement Design
- Drainage Design
- Erosion/Sedimentation Plans