

## Sikorsky Bridge

Stratford, CT

### Project Description

Balfour Beatty Construction completed the \$80 million replacement of the 1939 Sikorsky Bridge, which carries 80,000 vehicles per day on Connecticut Route 15 over the Housatonic River in Milford/Stratford, Connecticut. Work on the project consisted of demolition of the existing Sikorsky Bridge, a four-lane structure with a metal grid deck and metal barrier, and replacement of it with a five-span continuous plate girder structure with composite concrete deck. The new structure, consisting of an Eastbound and Westbound bridge, has six lanes, full shoulders and a sidewalk. The bridge consists of steel plate girders varying in depth from 11' to 16'. Field sections are each approximately 100' long and erected from land based and barge mounted cranes. Erection of girders is a challenging operation due to the extremely steep terrain at either abutment, strong tides in the river, and an active commuter rail line immediately adjacent to the East abutment.

### Owner

Connecticut Department of Transportation

### Contractor

Balfour Beatty Construction

### Designer

Parsons Brinckerhoff

### Our Role

Construction Engineering including erection analysis of the structure, girder erection sequences and procedures, and design of erection equipment and temporary supports systems.

### Total Contract Value

\$80 million

### Timeline

2001 - 2005

### Construction Method and Specifications

Reinforced Deck on Steel Plate Girders, erected with land and water based cranes on temporary erection bents. The project length is 1,800', Eastbound Structure - 60' wide, Westbound Structure - 70' wide with 5 spans, averaging 360' long.

