



Illinois Route 106 over the Illinois River at Florence

Project Description

Rehabilitation of the 37-span, 1,950-foot Lift Span Bridge carrying Illinois Route 106/100 over the Illinois River at Florence, Illinois.

The project involved:

- replacement of the steel floor system, steel grid and roadway deck
- guardrail replacement
- rehabilitation of the bridge tender house
- new tender house stairs and walkways
- cleaning and painting of the lift span bridge and support towers



Owner -- Illinois Department of Transportation
 Architects -- Illinois Department of Transportation
 Completion Date -- June 2004
 Contract Value -- \$3,700,000



Project Details

- Concrete repairs to existing pile bent approach span piers
- Replacement of 41 existing bridge expansion joints
- Rehabilitation of the 250' lift span, including open steel grid deck
- 100 tons of structural steel for the new floor system
- Rehabilitation of the existing bridge tender house
- New stairs, walkways and platforms for tender house access
- Cope modifications on floor system stringers at 3,500 locations in approach spans
- Counterweight balancing and rope tensioning
- Cleaning and painting of the lift span and counterweight towers

Unique Challenges

- Design and installation of a water-ballast tank temporary counterweight, to balance the lift span during construction.
- Completion of the lift span work with the lift span shored in the up position using temporary steel shoring towers in order to maintain river traffic throughout the project.
- Design and installation of a material sled on temporary rollers and track that cantilevered over the river to feed material to the overhead crane system. Use of the overhead crane system to replace the floor system in the lift span.

Contact Information

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