Public Information Meeting

Project 102-348
Rehabilitation of Bridge No. 00059
I-95 “Yankee Doodle Bridge”
over
Norwalk River and Hendricks Ave.
Norwalk, Connecticut
Project Location

BRIDGE NO. 00059
1.95 OVER NORWALK RIVER
ConnDOT Role

Bureau of Engineering and Construction

- Responsible for engineering design, construction, and inspection of transportation projects

Contacts:
- Timothy Fields, PE (Principal Engineer)
- David Cutler, PE (Project Manager)
- Jose Catalan, PE (Project Engineer)
ConnDOT has retained the firm of STV Incorporated (STV) to provide the design of this bridge project.

Contacts: Mr. Richard Ezyk, P.E.
(Project Engineer)

Mr. James Sherwonit, P.E.
(Project Manager)
Reasons for Project

Structure recommended for superstructure and substructure rehabilitation under the List 23 Bridge Program.

Reasons include:

- Structurally Deficient Superstructure
- "Poor" Condition Rating
- Extend Service Life

Connecticut Department of Transportation
Project Goals

- Provide a safe structure for the traveling public
- Rehabilitation of the Yankee Doodle Bridge
- Minimize disturbance to traveling public
- Complete construction in a timely manner
- Effectively use funds
Aerial View of Bridge No. 00059

Bridge 00059

Connecticut Department of Transportation
Looking West over Bridge

Connecticut Department of Transportation
Existing Bridge Description

- Seven span structure built in 1958
- Structure Dimensions
  - Total Length = 911 ft, 7 spans
  - Overall Width = 121 ft 8 in
  - Roadway width = 108 ft
- Straight horizontal alignment
- 520 ft long crest vertical curve over Norwalk River
- Carries four lanes of traffic in each direction
  - Estimated Average Daily Traffic (ADT) ~ 149,400 vehicles (2011)
- 100 Ft. Wide Navigation Channel under bridge
Existing Bridge Description

• Superstructure consists of:
  • Built-up welded steel plate girder superstructure

• Substructure consists of:
  • Cast-in-place concrete abutments and piers
Proposed Rehabilitation

- Repair structural steel deficiencies
- Clean and paint structural steel
- Replace channel fender system
- Replace navigation lighting
- Repair box beam approach guide rail
- Repair deck expansion joints
- Repair underside of deck concrete
- Repair substructure concrete
- Stabilize West Abutment embankment
Proposed Rehabilitation

- Upgrade parapet and median barrier
  - Maintain existing sidewalk
- Diamond grind concrete wearing surface
- Clean bridge deck scuppers and replace defective connecting drains
Structural Steel Deficiencies
Poor Paint Condition
Deteriorated Fender System
Fender System Replacement

Existing

Proposed
Non-functioning Navigation Lights
Worn Guide Rails
Expansion Joint Defects
Underside of Deck Deterioration

05/18/2014

Connecticut Department of Transportation
Embankment Erosion

04/12/2014

Connecticut Department of Transportation
Damaged Parapet
Damaged Median Barrier
Excessive Road Noise

04/12/2014

Connecticut Department of Transportation
Clogged Scupperer
Leaking Drainage Pipes

05/04/2014

Connecticut Department of Transportation
Construction Impacts

- Limited top of deck work
  - Off-peak lane and shoulder closure
  - Temporary lane width reductions
- Fender and navigation light replacement and all work over the Norwalk River navigable channel
  - Requires coordination with U.S. Coast Guard
  - No channel closures anticipated
- All other work can occur without interrupting I-95 and Norwalk River Traffic
- Work will not impact Hendricks Avenue
- Structure will be encapsulated during painting
  - No danger of debris falling
Maintenance and Protection of Traffic

- Median Barrier Upgrade
Maintenance and Protection of Traffic

- Parapet Upgrade
Environmental Considerations

- Partially located within a FEMA Special Flood Hazard Zone AE
- Located within a Natural Diversity Database area
- During field painting of structure surface preparation debris will be 100% contained, collected, removed and properly disposed.
- Best Management Practices will be utilized to handle sedimentation control during construction
Public Utilities

No known public utilities within project limits
Rights-of-Way

No impacts to private property anticipated for the proposed work.
Project Cost

The estimated construction cost for the entire project is approximately $25,000,000.

This bridge rehabilitation is anticipated to be undertaken using 90% Federal funds and 10% State funds.
Project Schedule

The project is anticipated to be constructed starting in Spring of 2017.

Project duration estimated to be two construction seasons.

The schedule is preliminary and is predicated upon the availability of funding.
Coordination with Other Projects

Other Planned Department Projects in Norwalk

• 102-295 Reconstruction of Median and Resurfacing of I-95 east of the Yankee Doodle Bridge

• Project 102-348 may be combined with 102-295 in a single construction contract
Other Project Locations

- Bridge No. 00059
  I-95 Over Norwalk River

- Project 102-295
  Reconstruction of Median and Resurfacing of I-95

Connecticut Department of Transportation
Contact Information

- **ConnDOT**
  
  Mr. David Cutler, PE  
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  860-594-3210

- **STV Incorporated**
  
  Mr. Richard Ezyk, PE  
  185 Plains Road Suite 208E  
  Milford, CT 06461  
  203-375-0521
THANK YOU...

FOR YOUR TIME AND ATTENTION

Connecticut Department of Transportation
and
STV Incorporated