

PROJECT NO. 158-0207
FEDERAL AID PROJECT NUMBER: CN 0015(121)
REHABILITATION OF BRIDGE NO. 00728 RTE. 15 (MERRITT
PARKWAY) OVER THE SAUGATUCK RIVER

Construction Funds: 100% State

DESIGN REPORT

TOWNS: Westport

ROAD: Route 15 (Merritt Parkway)

DISTRICT NO.: III

FINAL MAINTENANCE RESPONSIBILITY: State

PROJECT LOCATION: This project involves the rehabilitation of Bridge # 00728 carrying Route 15 over the Saugatuck River in the town of Westport. The bridge is located approximately midway between Parkway exits 41 and 42, at mile point 21.07.

PROJECT DESCRIPTION: The bridge is a built up open spandrel steel arch bridge that consists of a main span of 130 feet and six approach spans for a total length of 253 feet – 3 inches. The bridge was originally constructed in 1938, rehabilitated and widened in 1990. The 2014 bridge inspection report assigned a condition rating of 3 (Serious) for the steel arch, floor beams, columns and bracing. A Load Rating Evaluation was performed in 2013 to determine the adequacy of the structure to support emergency, maintenance and bridge inspection vehicles, and if interim/emergency measures were needed prior to construction of Project 158-207. As a result of the load rating evaluation, it was determined that there is a need to strengthen/rehabilitate this bridge in order to ensure that the structure has adequate load carrying capacity and to allow for continued use of this bridge.

The following work is proposed:

- Historic concrete repairs to substructure units including concrete pier caps, columns, and abutments
- Steel repairs to the spandrel arch superstructure including arch ribs, columns, floorbeams, and bracing members.
- Demolish and reconstruct bridge parapet to the original parapet & provide a two-tube Bridge Rail system in front of the balustrade parapet.
- Replacement of bituminous wearing surface
- Partial Depth and Full Depth Deck patching
- Replacement of concrete headers and installation of new expansion joints
- Abrasive blast clean of steel elements.
- Paint structural steel to replicate the original historic colors
- Safety improvements along travelway (Project No. 158-207 to be included with Project 158-211 for construction)

RIGHTS OF WAY: None

UTILITIES: None

REIMBURSABLE AGREEMENTS: None

SALVAGE: None

PERMITS: Flood Management General Certification, IW General Permit, ACOE Cat 1 Permit

COMMITMENTS: None

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