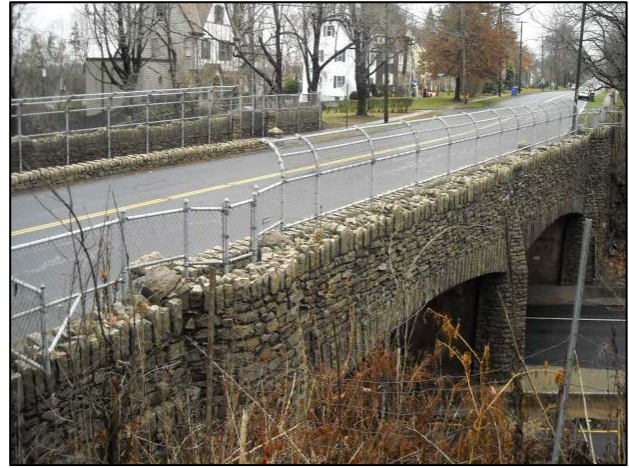


Rehabilitation of Bridge No. 00807

Wethersfield, CT



Client

The Connecticut Department of Transportation
State Project No. 159-189

Completion Date

2017 Design

2018 Estimated Construction

Description

Zuvic Carr prepared contract documents for the rehabilitation of the Ridge Road Bridge in Wethersfield. The existing 96-foot bridge, built in 1942, is a two-span cast-in-place concrete rigid frame structure founded on spread footings.

The parapets and spandrel walls will be replaced on both sides of the bridge over both spans. The existing parapet walls will be rebuilt in-kind in order to retain the natural stone façade, including the ring stones, on the exterior of the parapets. Our design included: full and partial depth concrete deck patching; removal and replacement of pavement and concrete sidewalks above the frame deck; patching and waterproofing membrane of frame top; repairs to the underside of the frame arches; water main relocation; new sidewalks and curbs; a pedestrian fence mounted on top of the parapet walls; removal of existing stone covered knee walls; and the reuse of stones from existing parapets and knee walls.

The parapet repairs will occur within a temporary form support system and debris shield to maintain at least 13'7" of vertical clearance over all four Route 5/15 travel lanes. The existing 8-inch gas main and a 10-inch public water main will be relocated to the west side of the bridge. Our design also included temporary roadway realignment, detour, traffic signalization, and other maintenance and protection of traffic measures during construction.