

# Connecticut Department of Transportation

## BRIDGE BUNDLE REHABILITATION



## Fall 2019 Newsletter

### ABOUT THE PROJECT

The Design-Build Bridge Bundle Rehabilitation Project (project number 0171-0431) is an initiative by the Connecticut Department of Transportation (CTDOT) to repair and replace three bridges in East Hartford and one bridge in Willington. The project was awarded to The Middlesex Corp. of Littleton Massachusetts on August 24, 2017 at a cost of \$22,067,950.00 and is scheduled to be completed in January 2020. The bridges being repaired and replaced as part of the project include:

1. Potter School Road over I-84 Eastbound and Westbound in Willington (Bridge 00847)
2. Route 2 Eastbound (towards Norwich and New London) over I-84 in East Hartford (Bridge 02369)
3. Route 2 Westbound (to Downtown Hartford) over I-84 Eastbound in East Hartford (Bridge 02366)
4. I-84 Westbound and HOV lane (Exit 54 to Downtown Hartford) over I-84 Eastbound in East Hartford (Bridge 02367)



All four bridges were constructed in the 1960s and consist of cast in place concrete decks on simple span steel beams on concrete abutments and piers. The repair and replacement of these bridges will keep them in service for the next 75 years.

Work on the Route 2 EB (02369) bridge began in February 2018. The bridge was reopened to traffic in October 2018. Work on the Potter School Road (00847) bridge began in May 2018. The bridge was reopened to traffic in August 2018.

Work on Route 2 Westbound over I-84 (Bridge 02366) and I-84 Westbound over I-84 Eastbound (Bridge 02367) began in Winter 2018. Bridge 02366 was reopened to traffic in July 2019. Bridge 02367 was reopened to traffic in October 2019.

### WHAT IS DESIGN-BUILD?

Design-Build is an innovative method of project delivery in which the engineer works directly for and with the contractor to design the project. This relationship promotes collaboration and reduces project costs and timelines. CTDOT maintains oversight over the Design-Builder and defines the project requirements and specifications.

For more information, please contact.

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### BRIDGES 02366 AND 02367:

Work on Route 2 Westbound over I-84 (Bridge 02366) and I-84 Westbound over I-84 Eastbound (Bridge 02367) was conducted simultaneously beginning in Winter 2018 (Figure 1). In the Spring of 2019, Bridge 02366 was closed to traffic for the duration of the demolition and replacement of the bridge. Bridge 02367, which carries four lanes of traffic, was reduced to two lanes in the Spring of 2019, and traffic was maintained for the duration of the demolition and replacement of the bridge. Demolition and replacement was conducted in two phases, with one half of the bridge demolished and replaced during each phase.

The existing substructures of each bridge, consisting of simple span steel beams on concrete abutments and piers, were completely replaced as part of this project with Geosynthetic Reinforced Soil-Integrated Bridge System (GRS-IBS) abutments (Figures 2 and 3).

Bridge 02366 was reopened to traffic in July 2019 and Bridge 02367 was reopened to traffic in October 2019. The Middlesex Corporation continues to carry out the remaining punchlist items in the project area as the project nears completion.



Figure 1



Figure 2



Figure 3

For more information, please contact.

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## STAY INFORMED

To date, three public meetings have been held for the Design-Build Bridge Bundle Rehabilitation Project, two in East Hartford and one in Willington.

Additionally, a project website containing meeting presentations and minutes, detour information and contact information for the project team is being maintained for the duration of the project.

Construction look-aheads, which provide a snapshot of construction activities, are posted on the project website. These look-aheads will help members of the public plan for changes in construction activities and any detours that may be necessary as a result of these changes.



A Bird's Eye View of the Reconstructed Bridges 02366 and 02367 in East Hartford.

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