

Rehabilitation of Red/Yellow Loop Trail Bridge and Replacement of Causeway Bridge

West Hartford, CT



Red/Yellow Loop Trail Bridge



Causeway Bridge

Client

The Metropolitan District
MDC Water Filtration Plant

Completed

2014 Design
2015 Construction

Description

Zuvic Carr designed a major rehabilitation of two bridges at the Metropolitan District (MDC) Water Filtration site in West Hartford. The work was performed for GZA GeoEnvironmental as part of an ongoing MDC Contract 2011-23.

Zuvic Carr reviewed historical data, inspected the bridges, gathered critical measurements, and developed Final Design drawings for the two bridges. We also reviewed Contractor and precast fabricator submittals during construction.

The Red/Yellow Loop Trail Bridge repair included replacing the superstructure in-kind with new beams and deck slab which would accommodate a new guide rail system. Steel-backed timber guide rail was installed on the new bridge deck and along the park road approaches (see left photo above).

The Causeway Bridge project involved removing and replacing the bridge with a new three-sided precast concrete structure with a 20-foot clear span. The new superstructure was installed over the existing trap rock foundation utilizing Accelerated Bridge Construction methods. New guiderail was installed on the bridge and both roadway approaches. This bridge is located over a drinking water reservoir (see right photo).

The rehabilitation and replacement construction for both bridges was completed in 2015.