

Project Fact Sheet

Project Name: Hill Blvd over Barger Brook Tributary Bridge Replacement
Location: Town of Yorktown, Westchester County, NY.
BIN: 2265539
Project Description: Project involves removal of the existing bridge in its entirety and replacement with a new longer-span precast concrete three-sided frame founded on an invert slab

Existing Bridge Data:

Construction Date: Approximately 1960
Structure Type: Two (2) 12'-0" span elliptical buried corrugated metal pipes
Bridge Length: 26'-11" total bridge length (including fill between pipes), two spans, measured along the centerline of the roadway
Out-to-out width: 80'-9" measured perpendicular to the centerline
Roadway: Four (4) 10'-0"± travel lanes (two in each direction), no shoulders, no sidewalks, guide rail, and curb
AADT: 6293 (counted in 2017)
Governing Rating: Load Posted for 5 Tons
Condition Rating: 4.059 (2016 Biennial Bridge Inspection)
Description of Existing Condition:

Heavy pitting and rusted delaminations with severe section loss throughout both culvert pipes. Heavily cracked concrete headwall with sections of missing concrete. Evidence of scour based on the presence of scour pools. Loss of fill material between the culvert pipes.

Proposed Alternative:

A description of the major items of work includes:

- Install soil erosion and sediment control measures. Install cofferdam(s) and/or temporary diversion structure. Adjust per construction sequencing, remove when project is complete.
- Remove existing corrugated metal pipes and concrete headwalls. Maintain existing underground utilities in place. Excavate.
- Install gravel bedding and concrete invert slab with cutoff walls.
- Place precast concrete three-sided frame and concrete headwalls / wingwalls (precast and cast-in-place concrete will be investigated).
- Install native streambank material above invert slab. Backfill, install streambank stabilization, restore disturbed surfaces with topsoil, seeding, and/or landscaping.
- Install guide / bridge rail, curbs, paving, striping, and signage.

Detour: Duration – 4 months (April 1st, 2019 – August 1st, 2019)

Vehicular Detour Length: 1.3 miles/3 minutes

Pedestrian Detour Length: 1.2 miles/26 minutes

Project Fact Sheet

Project Name: Veterans Rd over Hallocks Mill Brook Culvert Replacement

Location: Town of Yorktown, Westchester County, NY.

Project Description: Project involves removal of the existing culvert in its entirety and replacement with a new longer-span precast concrete box culvert

Existing Bridge Data:

Construction Date: Approximately 1960

Structure Type: Two (2) 5'-0" diameter buried corrugated metal pipes

Bridge Length: 11'-9" total culvert length (including fill between pipes), two spans, measured along the centerline of the roadway

Out-to-out width: 50'-4" measured perpendicular to the centerline

Roadway: Two (2) 12'-0"± travel lanes in each direction, each with shoulders varying in width between 7'-0" and 10'-0", no sidewalks, stone masonry parapet walls and a 6" curb

AADT: 3997 (Counted in 2017)

Governing Rating: N/A

Condition Rating: 3.67 (2016 Culvert Inventory and Inspection Program)

Description of Existing Condition:

Corrosion throughout the culvert pipes with up to 100% section loss in localized areas. Stone masonry headwalls and parapets in poor to failed condition with areas of missing stones. Failed embankment side slopes, encroaching onto the roadway.

Proposed Alternative:

A description of the major items of work includes:

- Temporarily relocate overhead utilities to facilitate placement of the proposed structure. Permanent relocation will be considered based on utility company input.
- Install soil erosion and sediment control measures. Install cofferdam(s) and/or temporary diversion structure. Adjust per construction sequencing, remove when project is complete.
- Remove existing corrugated metal pipes and stone headwalls. Maintain underground utilities in place. Excavate.
- Install gravel bedding and place precast concrete box, concrete headwalls / wingwalls, and cutoff walls.
- Install native streambank material. Backfill, install streambank stabilization, restore disturbed surfaces with topsoil, seeding, and/or landscaping.
- Install guide / bridge rail, curbs, paving, striping, and signage.

Detour: Duration – 4 months (May 1st, 2019 – September 1st, 2019)

Vehicular Detour Length: 1.9 miles/<10 minutes

Pedestrian Detour Length: 0.8 miles/16 minutes