

**Replacement of the 31ST Street, NW
Bridge over C&O Canal
(Bridge No. 3)
DCKA-2018-C-0056
FAP No:2017(037)**



Network Nov 6, 2020 at 11:13:40 AM EST

31st Street Bridge over C&O Canal

**Construction Management Weekly Report
10/31/2020 – 11/06/2020**

Project Website: www.31stStreetBridge.com

1. EXECUTIVE SUMMARY

Project Description

Work under this contract consists of the replacement of the 31st Street Bridge over the C&O Canal in Georgetown. The existing two-span bridge superstructure is to be removed in its entirety and replaced by a new single-span, steel, multi-girder superstructure on new independent abutments constructed behind the existing canal walls. The proposed bridge will have a reinforced concrete deck. The existing canal walls are to remain in place with minor wall maintenance. The existing historic pier is to be removed, salvaged, rehabilitated, and reset in its original location, but will no longer support the bridge. Minor approach roadway reconstruction and sidewalk improvements are also part of the project. Service via existing utilities that currently hang on the bridge must be maintained throughout construction.

Proposed work will include but not be limited to:

- Installation of a temporary pedestrian bridge prior to construction in order to maintain pedestrian access across the C&O Canal at all times
- Installation of temporary structures required to laterally support existing canal walls
- Removal, salvage and restoration of the historic pier
- Installation of temporary utility supports during construction, protection of existing utilities, and coordination with utility companies for relocation prior to bridge replacement
- Removal, relocation and installation of various utility components, manholes, and related items
- Installation and removal of a portable dam system within the canal
- Removal, storage and reinstallation of existing streetlight poles and signposts
- Removal, storage and reinstallation of the stone monument, wooden signposts, and canal wall elements
- Removal and disposal of the existing bridge superstructure in its entirety, and construction of new abutments and superstructure
- Construction of
 - Granite curb
 - Brick gutter
 - PCC base with brick/tile sidewalk
 - Wheelchair/bicycle ramps
- Installation of pedestrian railing

2. STATUS OF CONSTRUCTION / PROGRESS SUMMARY

Progress Summary:

- Fort Myer Construction Company (FMCC) implemented the project detour on June 11, 2019 and set up the construction zone perimeter.
- The pedestrian bridge was delivered, assembled, and set on the abutments; and opened for use on June 28, 2019.
- NPS continues to maintain water flow in the canal, and the cofferdams are working properly.
- The pier footing investigation was completed, and the pier assessment/restoration plan has been submitted for review and comment.
- The water main relocation and installation of the canal wall support is completed.
- Demolition of existing bridge deck has been completed.
- Demolition of Verizon wood conduits (by Verizon) was completed.
- Removal of the beams located in the middle of Verizon conduits completed.
- Micropile drilling on the south and north sides of the bridge was completed on December 21, 2019.
- Placement of reinforcement and grout started on December 9, 2019 at the north side of the bridge and was completed on December 11, 2019.
- Cleaning and priming of the historic pier completed; UT and MT investigations were completed, and results distributed; pier assessment meeting held in the field January 21, 2020
- Pier assessment/rehabilitation report provided February 3, 2020 and distributed to stakeholders for review and comment. AECOM comments submitted February 14, 2020
- Pier footing meeting held on February 24, 2020; pier rehab meeting held on February 24, 2020. Both meetings to discuss path forward for all items related to the pier. Revised Pier Report (Rev 1) submitted on March 5, 2020 for review and comment. DDOT suspended stakeholder review on March 12, 2020; DDOT recommended using the spreadsheet to compile the defects and repairs in a tabular format, for clarity and tracking purposes. DDOT sent comments on March 17, 2020 and FMCC to resubmit accordingly. AECOM comments on Rev 2 submitted May 13, 2020. NPS comments on Rev 2 submitted May 22, 2020. FMCC submitted Submittal 67 Rev 3 on June 5, 2020 for review.
- Pepco outage completed March 17, 2020; next outage set for June 17, 2020.
- Verizon asbestos removal completed w/e March 20, 2020; split-duct work completed April 8, 2020; FMCC to complete Verizon work under DCI.
- Placement of concrete at north abutment complete; Placement of concrete at south abutment complete.
- Beam placement complete w/e of May 22, 2020.
- Placement of forms and rebar for bridge deck complete.
- Pepco confirmed outage was completed June 30, 2020. No more expected.
- Deck concrete pour completed on Thursday, July 30, 2020.
- Sidewalk concrete pour on bridge complete August 20, 2020.
- Removed deck/sidewalk forms from bridge August 29, 2020.
- Removal of temporary utility supports completed September 4, 2020.
- Diaphragm connections completed September 4, 2020.
- Repointing of canal wall (south side) completed; repointing of canal wall (north side) ongoing
- Installation of bridge railing ongoing; construction of SW wall ongoing

- Installation of granite curbs and inlets along sidewalk ongoing
- Construction of ADA ramps
- Utility Trench repair with PCC Pavement
- Placement of concrete for approach slabs ongoing
- Pier rehabilitation ongoing

Ongoing Issues / Items: Pepco manhole at south side does not have PCC pavement on top; FMCC to add PCC pavement layer to protect manhole; to be adjusted with PCC Base for trench repair for DC Water utility; Deteriorated PCC Base at north side to be repaired.

New Issues / Items: None at this time

Action Items: None at this time

New Action Items: None at this time.

3. MEETINGS / PROJECT COORDINATION

- Progress Meeting #35 was held on Wednesday October 28, 2020 at 10:00 AM via ZOOM Telecon.

4. DAILY WORK PERFORMED

Field construction activities performed during this period:

Saturday – 10/31/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor did not work on this date.

Sunday – 11/01/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor did not work on this date.

Monday – 11/02/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor continued the repairs and repointing of the Canal wall located at the north abutment.
- The contractor started the excavation for the PCC Pavement repairs for area located beyond the south approach slab.
- The contractor continued the placement and compaction of aggregate base course material for approach slabs located at the north and south sides of the bridge. DDOT Materials technician Patel was onsite conducting density testing at both locations.
- The contractor started the placement of reinforcing steel for the north approach slab.
- Subcontractor Lock and Stitch started the historic pier repairs.
- Verizon contractor (DCI) was onsite working on Verizon manhole top at the south side of the bridge.

Tuesday – 11/03/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor continued the repairs and repointing of the Canal wall located at the north abutment.
- The contractor completed the placement of reinforcing steel for the north approach slab and placed 25 CY of 4500 psi concrete at the location.

- The placement of concrete for the north approach slab was observed and tested for temperature, slump, air content, and batch to placement time. One set of 6 cylinders was cast for compressive strength testing.
- DDOT Material concrete technician was onsite; observed the placement, tested the concrete, and cast a comparative set off cylinders.
- Subcontractor Lock and Stitch continued the historic Pier repairs.
- Verizon contractor (DCI) continued working on Verizon manhole top at the south side of the bridge.
- The contractor continued dewatering the work zone.

Wednesday – 11/04/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor continued the repairs and repointing of the Canal wall located at the north abutment.
- The contractor continued the excavation for the PCC repairs for area located beyond the north approach slab.
- Subcontractor Lock and Stitch continued the historic pier repairs.
- Verizon contractor (DCI) continued working on Verizon manhole top at the south side of the bridge.
- The contractor continued dewatering the work zone.

Thursday – 11/05/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor completed the placement of reinforcing steel for PCC repairs located south and north sides of the bridge.
- The contractor placed 24 CY of 3000 psi concrete for PCC Pavement repairs located south north sides of the bridge.
- Concrete placement was observed and tested for temperature, slump, air contents, and batch to placement time. One set of six cylinders was cast for compressive strength testing.
- Subcontractor Lock and Stitch continued the historic pier repairs.
- Verizon contractor (DCI) continued working on Verizon manhole top at the south side of the bridge.
- The contractor continued dewatering the work zone.

Friday – 11/06/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor continued the repairs and repointing of the Canal wall located at the north abutment.
- The contractor demolished the concrete around Verizon manhole located at the south side of the bridge.
- Subcontractor Lock and Stitch continued the historic pier repairs.
- Verizon contractor (DCI) continued working on Verizon manhole top at the south side of the bridge.

4. PUBLIC OUTREACH

Public Outreach performed during this period:

- Responded to citizen and business inquiries.

5. INSPECTION & MATERIAL TESTS PERFORMED

- Test concrete and cast cylinders for concrete placed for the north approach slab and for PCC repairs south and north sides of the bridge (November 3 and November 5).

6. CHANGE ORDERS / TASK ORDER

- Change Order No. 1 submitted to DDOT (Bedrock excavation, Pepco conduit demo, beam removal) March 12, 2020.
- Change Order No. 2 to include micropile VE package under review with DDOT.
- Change Order No. 3 provided 90-day time extension to FMCC.
- Change Order No. 4 (previously CO #3) to include micropile load testing, micropile over drilling, stone cutting, wood railings and waterline diaphragm connections; submitted to DDOT for review June 9, 2020; FMCC provided responses to DDOT comments.
- Change Order No. 5 to include additional funds for the Pier rehab proposal, PCC Base repairs, adjustment of SW corner railing, cutting of SE corner base plate, and partial NHL Mortar scope, using available funds from Item 612 108.

7. DBE PARTICIPATION SUMMARIES

- No DBE work performed at this time.

8. ACCIDENTS / INCIDENTS

- There were no reported accidents within the project limits this week.

PHOTOS OF WORK PERFORMED THIS PERIOD



Excavation for PCC Pavement Repairs South Side of the Bridge



Network: Nov 2, 2020 at 8:23:45 AM EST
Repointing of Canal North Wall



Network: Nov 2, 2020 at 9:51:51 AM EST
Work at Verizon Manhole South of the Bridge



Network: Nov 2, 2020 at 10:41:47 AM EST

Density Testing for Aggregate Placed for Approach Slabs



Network: Nov 2, 2020 at 11:32:26 AM EST

Lock and Stitch Repairs at Pier Column



Network: Nov 3, 2020 at 8:27:24 AM EST

Reinforcing Steel for the Approach Slab North Side of the Bridge



Network: Nov 3, 2020 at 3:10:26 PM EST

Placement of Concrete for Approach Slab North Side of the Bridge



Network: Nov 3, 2020 at 4:48:25 PM EST

Placement of Concrete for Approach Slab North Side of the Bridge



Network: Nov 3, 2020 at 5:22:33 PM EST

Lock and Stitch Repairs at Pier Column



Network: Nov 3, 2020 at 5:25:37 PM EST

Placement of Concrete for Approach Slab North Side of the Bridge



Network: Nov 4, 2020 at 1:39:50 PM EST

Excavation for PCC Pavement Repairs North Side of the Bridge



Network: Nov 4, 2020 at 3:56:08 PM EST

Lock and Stitch Repairs at Pier Column



Network: Nov 5, 2020 at 9:36:02 AM EST

Reinforcing Steel for PCC Pavement Repairs North Side of the Bridge



Placement of Concrete for PCC Pavement Repairs North Side of the Bridge

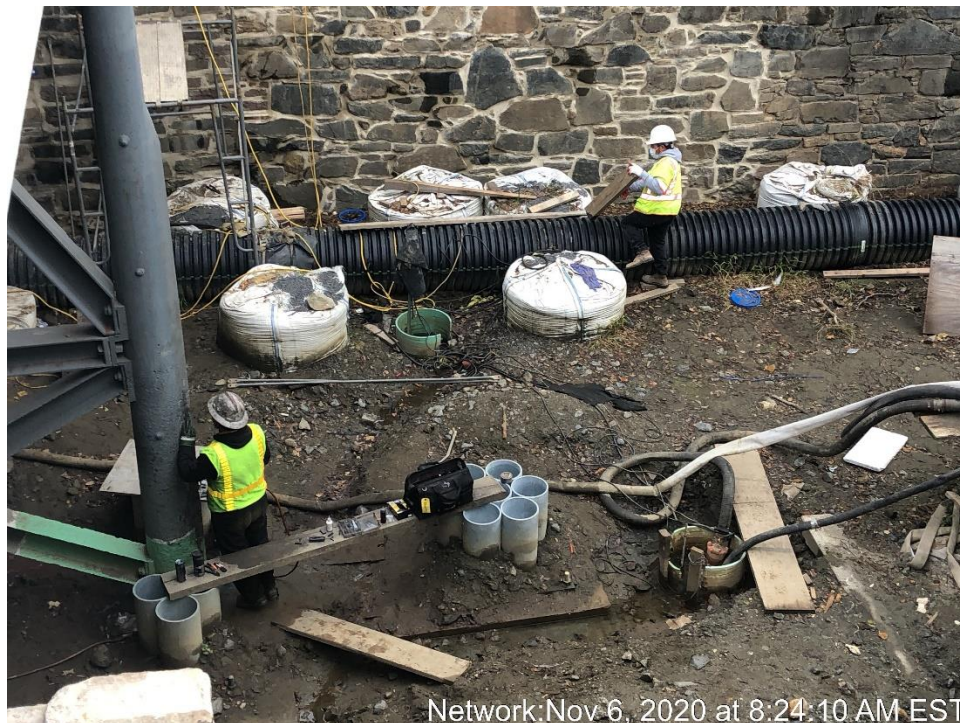


Placement of Concrete for PCC Pavement Repairs South Side of the Bridge



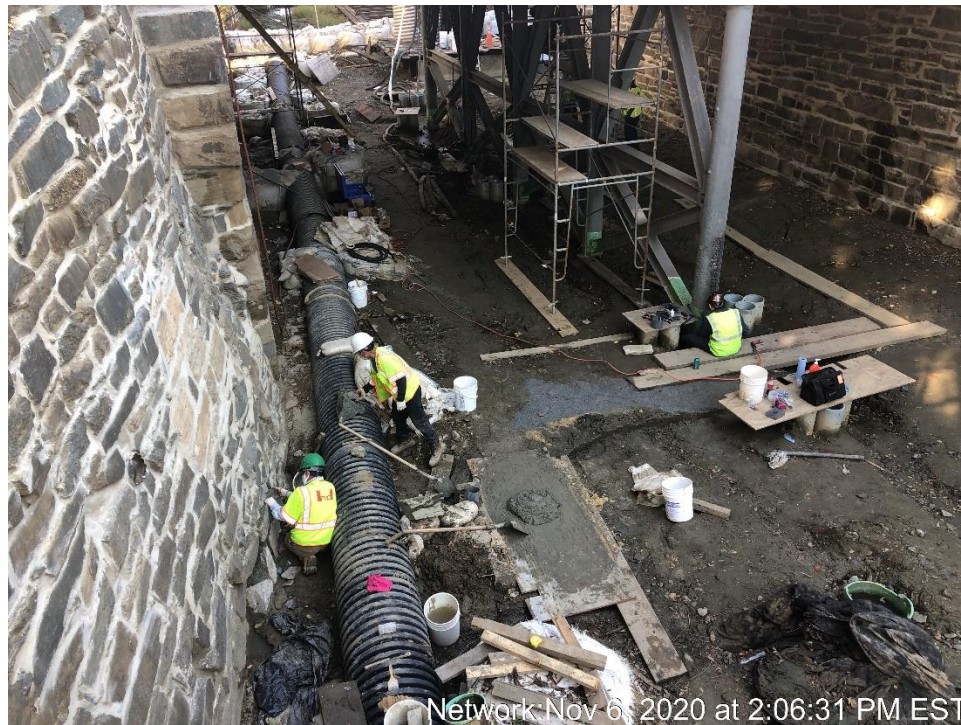
Network: Nov 5, 2020 at 2:23:28 PM EST

Lock and Stitch Repairs at Pier Column



Network: Nov 6, 2020 at 8:24:10 AM EST

Lock and Stitch repairs at Pier Column



Network: Nov 6, 2020 at 2:06:31 PM EST
Repointing of Canal North Wall



Network: Nov 6, 2020 at 9:48:55 AM EST
Demolition of Concrete Around Verizon Manhole North Side of the Bridge