

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



31<sup>ST</sup> Street Bridge over C&O Canal

**Construction Management Weekly Report**  
**11/14/2020 – 11/20/2020**

**Project Website: [www.31stStreetBridge.com](http://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
- Construction of ADA ramps complete
- Utility Trench repair with PCC Pavement complete
- Placement of concrete for approach slabs complete (north side)
- Placement of roadway asphalt complete at approach roadways
- Pier rehabilitation ongoing; epoxy hole repairs underway

**Ongoing Issues / Items:** Epoxy hole repairs on Pier underway

**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 #36 scheduled for Wednesday November 25, 2020 at 10:00 AM via ZOOM Telecon to be rescheduled.
- Pier painting operations meeting to be held on Tuesday, November 24, 2020

### 4. DAILY WORK PERFORMED

**Field construction activities performed during this period:**

#### **Saturday – 11/14/2020**

- The 31<sup>st</sup> Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor continued the installation of bricks for the sidewalk located at the west side of the bridge deck.
- The contractor placed 34.38 Tons of 9.5 WARM Surface Asphalt on 31<sup>st</sup> Street between the approach slab and the project limit south and north sides of the bridge.
- Subcontractor completed the lock and stitch repairs on the historic piers.

#### **Sunday – 11/15/2020**

- The 31<sup>st</sup> 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 – 11/16/2020**

- The 31<sup>st</sup> Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor continued the installation of bricks for the sidewalk located at the west side of the bridge deck.
- A subcontractor installed grooving on the approach slab section of the bridge south and north side of the bridge deck.

#### **Tuesday – 11/17/2020**

- The 31<sup>st</sup> Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor continued the installation of bricks for the sidewalk located at the west side of the bridge deck.
- The contractor installed railing posts at the southwest corner of the bridge deck and conducted general site cleaning.

**Wednesday – 11/18/2020**

- The 31<sup>st</sup> Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor continued the installation of bricks for the sidewalk located at the west side of the bridge deck.
- The paint subcontractor started the installation of scaffold and containment around the historic pier.

**Thursday – 11/19/2020**

- The 31<sup>st</sup> Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor continued the installation of bricks for the sidewalk located at the west side of the bridge deck.
- The paint subcontractor power washed the historic pier and continued the installation of scaffold and containment.

**Friday – 11/20/2020**

- The 31<sup>st</sup> Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor completed the installation of bricks for the sidewalk located at the west side of the bridge deck and started the construction on the brick sidewalk located on the east side of the bridge deck.
- The paint subcontractor completed the installation of scaffold and containment and started the epoxy hole filling on the pier's columns.
- A subcontractor installed the permanent high-contrast pavement marking tape on the bridge deck and for crosswalk at the north side of the bridge.

**4. PUBLIC OUTREACH**

Public Outreach performed during this period:

- Responded to citizen and business inquiries.

**5. INSPECTION & MATERIAL TESTS PERFORMED**

- Density testing for asphalt was performed.

**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.

## 9. PHOTOS OF WORK PERFORMED THIS PERIOD



Network: Nov 14, 2020 at 11:46:05 AM EST

Placement of Asphalt at South Side of the Bridge



Network: Nov 14, 2020 at 11:22:27 AM EST

Checking Density for Asphalt Compaction



Network: Nov 14, 2020 at 1:34:52 PM EST

Construction of Brick Sidewalk – West Side of the Bridge



Nov 14, 2020 at 11:04:48 AM  
Georgetown  
Altitude: 14.3 meter  
Speed: 2.3 km/h

Construction of Brick Sidewalk – West Side of the Bridge



Network: Nov 16, 2020 at 11:35:55 AM EST

Grooving at the North Approach Slab



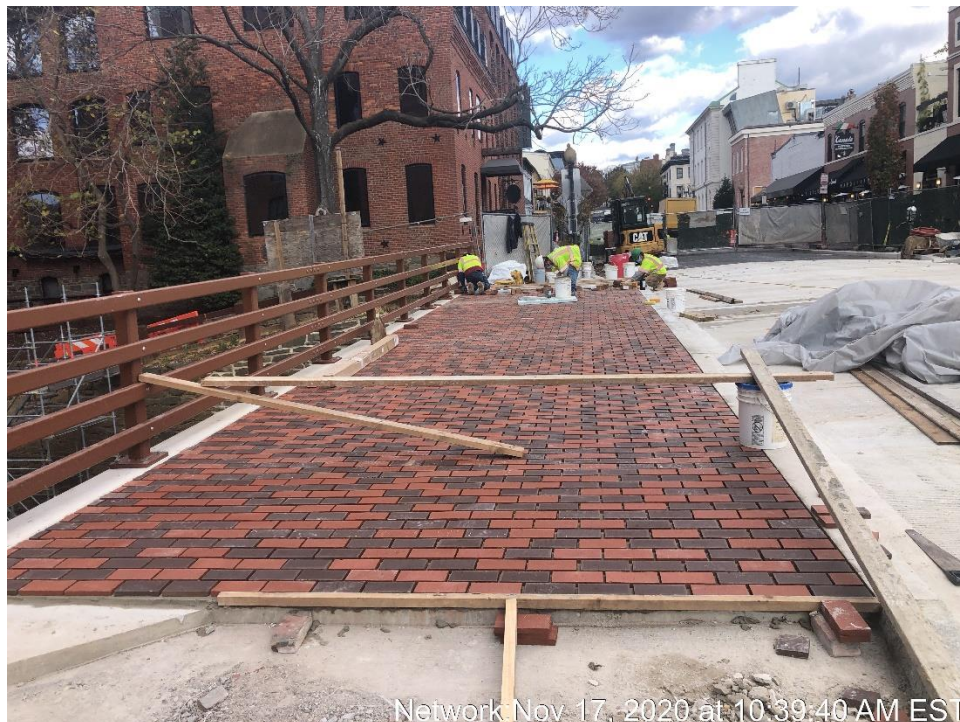
Network: Nov 16, 2020 at 11:41:08 AM EST

Construction of Brick Sidewalk – West Side of the Bridge



Network: Nov 16, 2020 at 2:07:42 PM EST

Bridge Deck Cleaning



Network Nov 17, 2020 at 10:39:40 AM EST

Construction of Brick Sidewalk – West Side of the Bridge



Construction of Brick Sidewalk – West Side of the Bridge



Construction of Brick Sidewalk – West Side of the Bridge



Network: Nov 18, 2020 at 2:29:30 PM EST

Scaffolding and Containment for Pier Epoxy Repairs



Network: Nov 19, 2020 at 10:39:58 AM EST

Construction of Brick Sidewalk – West Side of the Bridge



Network: Nov 19, 2020 at 10:41:59 AM EST  
Scaffolding and Containment for Pier Epoxy Hole Filling



Network: Nov 20, 2020 at 9:40:40 AM EST  
Construction of Brick Sidewalk – East Side of the Bridge



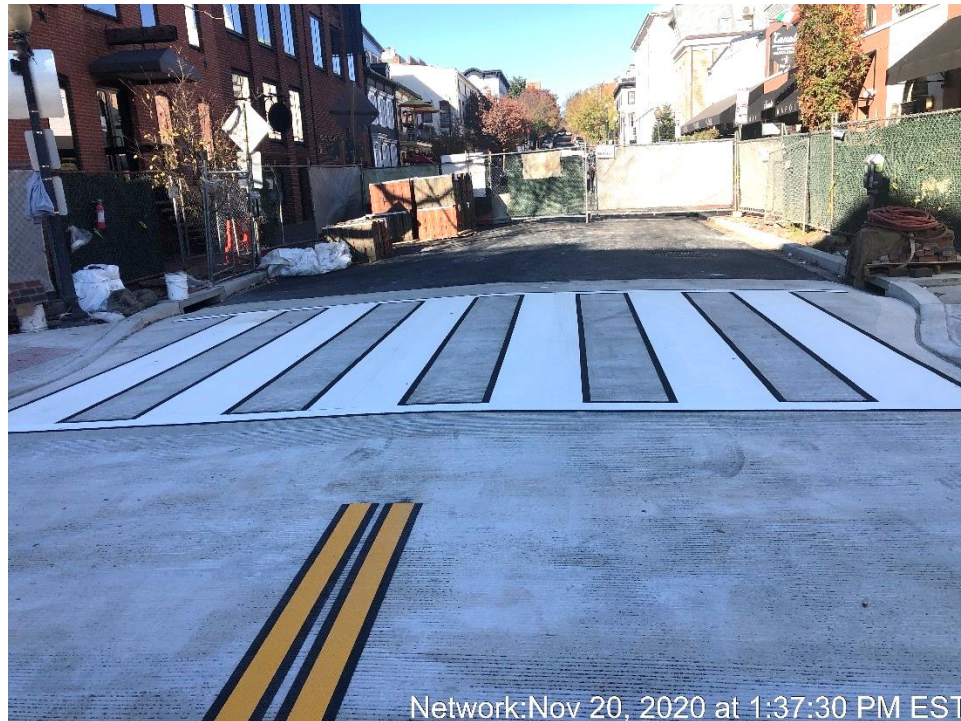
Network: Nov 20, 2020 at 1:50:32 PM EST

Epoxy Hole Filling at Pier Column



Network: Nov 20, 2020 at 3:14:13 PM EST

Installation of Contrast Pavement Marking Tape



Installation of Crosswalk at North Side of the Bridge