

**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)**



**Construction Management Weekly Report  
12/19/2020 – 12/25/2020**

**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 complete (stitching completed; epoxy hole repairs completed; painting completed December 4, 2020)
- Placement of brick sidewalk on bridge completed
- Placement of brick sidewalk on approaches underway
- Re-adjustment of base plate at SE corner completed
- Removal of temporary pedestrian bridge completed
- Cleaning of brick sidewalks underway

**Ongoing Issues / Items:** None at this time

**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 #37 will be held on Wednesday January 6, 2021 at 10:00 AM via ZOOM Telecon
- Superstructure punch list meeting will be held on Tuesday, December 28, 2020 at 10am on-site

### 4. DAILY WORK PERFORMED

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

#### **Saturday – 12/19/2020**

- 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 the Timber Finders around the historic pier.

#### **Sunday – 12/20/2020**

- 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 did not work on this date.

#### **Monday – 12/21/2020**

- The 31<sup>st</sup> Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets. FMCC disassembled and began removing the pedestrian bridge, closed the east sidewalk and reopened the west sidewalk.
- The contractor removed the downstream cofferdam and started picking up the sandbags.
- The contractor performed grading on the bottom of the canal around the historic pier.
- The contractor conducted general site cleaning and continued pumping water from the upstream section of the Canal.

#### **Tuesday – 12/22/2020**

- 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 removal of the pedestrian bridge, closed the east sidewalk and reopened the west sidewalk.
- The contractor started the construction of bricks sidewalk located at the southeast corner of the bridge.
- The contractor continued pumping water from the upstream section of the canal.

**Wednesday – 12/23/2020**

- 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 removal of the pedestrian bridge, closed the east sidewalk and reopened the west sidewalk.
- The contractor completed the construction of bricks sidewalk located at the southeast corner of the bridge.
- The contractor continued the removal of the downstream cofferdam.
- The contractor continued the grading work at the bottom of the canal around the pier.
- The contractor continued working on the restoration of NPS railing at the NE corner and removed the formwork for the railing post foundation at SE corner.
- The contractor started the installation of wire rope for the dolphins (Timber Finders) around the pier.
- The contractor continued pumping water from the upstream section of the canal.

**Thursday – 12/24/2020**

- 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 removed the pedestrian bridge, closed the east sidewalk and reopened the west sidewalk.
- The contractor continued the installation of wire rope for the dolphins (Timber Finders) around the pier.
- The contractor conducted general site cleaning and washed the newly constructed brick sidewalk at the NE and SE corners of the bridge.

**Friday – 12/25/2020**

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

**4. PUBLIC OUTREACH**

Public Outreach performed during this period:

- Responded to citizen and business inquiries.

**5. INSPECTION & MATERIAL TESTS PERFORMED**

- Concrete placed for sidewalk concrete base was tested for temperature, slump, air contents and batch to placement time. One set of 6 cylinders was cast for compressive strength testing.

**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 provided additional 45-day no-cost time extension to FMCC.
- Change Order No. 5 (previously CO #4) under review with DDOT.
- Change Order No. 6 under review with DDOT.



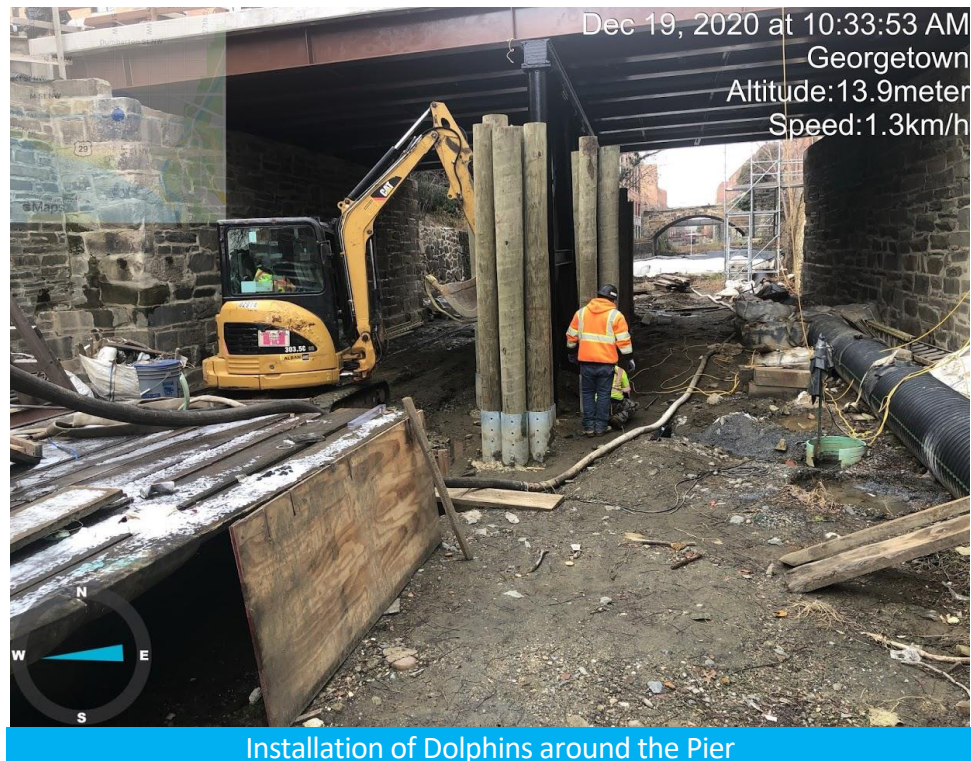
## 7. DBE PARTICIPATION SUMMARIES

- 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









Removal of the Downstream Cofferdam



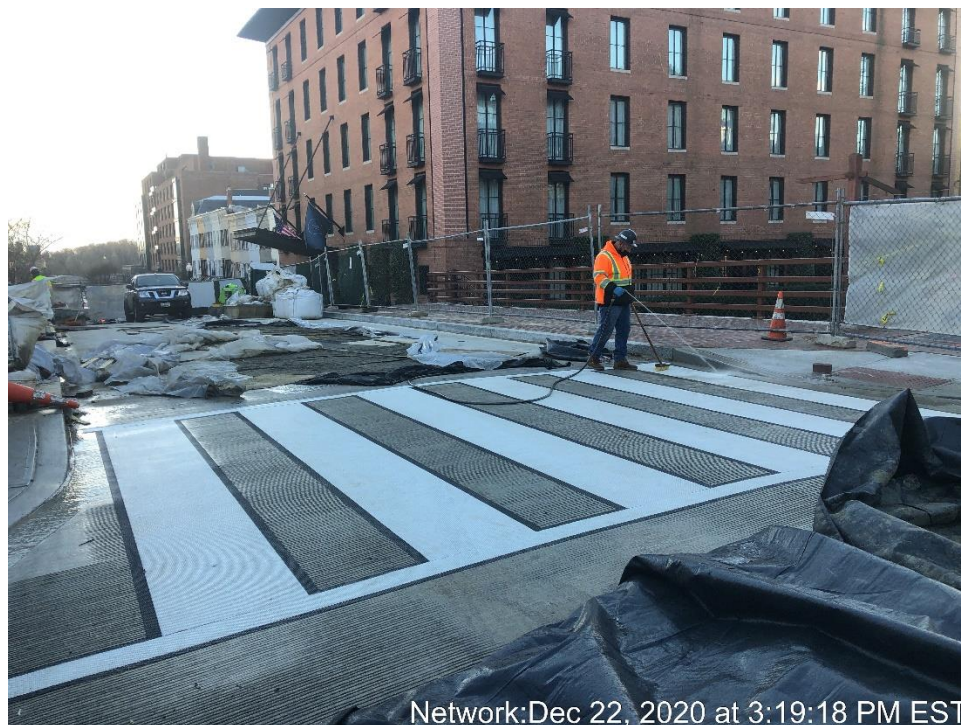
Site Cleaning and Grading





Network: Dec 22, 2020 at 11:55:15 AM EST

Construction of Brick Sidewalk at the SE Corner



Network: Dec 22, 2020 at 3:19:18 PM EST

General Site Cleaning





Removal of the Downstream Cofferdam



Installation of Wire Rope Around the Dolphins



Network: Dec 24, 2020 at 8:04:13 AM EST

Washing the East Sidewalk