

**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**  
**7/25/2020 – 7/31/2020**

**Project Website: [www.31stStreetBridge.com](http://www.31stStreetBridge.com)**

**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 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.

**Ongoing Issues / Items:** FMCC provided response to NCR#3 on 7/23/2020.

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

**Action Items:** DDOT provided final direction on use of lightweight concrete for deck.

**New Action Items:** None at this time.

### 3. MEETINGS / PROJECT COORDINATION

- Pre-pour Meeting between DDOT, Volkert and FMCC was conducted on Tuesday, July 28, 2020 at the bridge deck.
- Lightweight concrete mix design discussion between DDOT, Volkert and FMCC was conducted on July 29, 2020 at 9:00 am via Microsoft Teams.
- Construction schedule discussion between DDOT, Volkert and FMCC was conducted on July 31, 2020 at 11:00 AM via ZOOM Telecon.
- Progress Meeting #30 will be held on Wednesday, August 5, 2020 at 10:00 AM via ZOOM Telecon.

### 4. DAILY WORK PERFORMED

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

#### Saturday – 7/25/2020

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

#### Sunday – 7/26/2020

- 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 – 7/27/2020

- 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 started working on repointing of the Canal wall stones at the south abutment.

#### Tuesday – 7/28/2020

- 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 working on repointing of the Canal wall stones at the south abutment.
- Following the pre-pour meeting, the contractor conducted the dry run test for the bridge deck concrete pour.

#### Wednesday – 7/29/2020

- 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 working on repointing of the Canal wall stones at the south abutment.

#### Thursday – 07/30/2020

- 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 placed lightweight concrete for the bridge deck. The placement of concrete was observed by DDOT/Volkert and tested for temperature, slump, air content, unit weight and batch to placement time. One set of 40 Cylinders was cast for compressive and splitting tensile strength tests.
- Following the placement of concrete, the contractor covered the bridge deck with wet burlap for curing.
- The contractor continued working on repointing of the Canal wall stone at the south abutment.

**Friday – 07/31/2020**

- 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 monitoring and maintaining the concrete curing for the bridge deck.
- The contractor picked up and delivered the concrete 20 cylinders to DDOT Materials.

**4. PUBLIC OUTREACH**

Public Outreach performed during this period:

- Responded to citizen and business inquiries about schedule.

**5. INSPECTION & MATERIAL TESTS PERFORMED**

- Tested the concrete placed at the bridge deck for temperature, slump, air content, unit weight and batch to placement time. Cast 40 concrete cylinders for compressive and splitting tensile strength tests. Twenty cylinders were delivered to DDOT QA/QC.

**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 to include micropile load testing, micropile over drilling and stone cutting, submitted to DDOT for review June 9, 2020.

**7. DBE PARTICIPATION SUMMARIES**

- None at this time.

**8. ACCIDENTS / INCIDENTS**

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



9. PHOTOS OF WORK PERFORMED THIS PERIOD

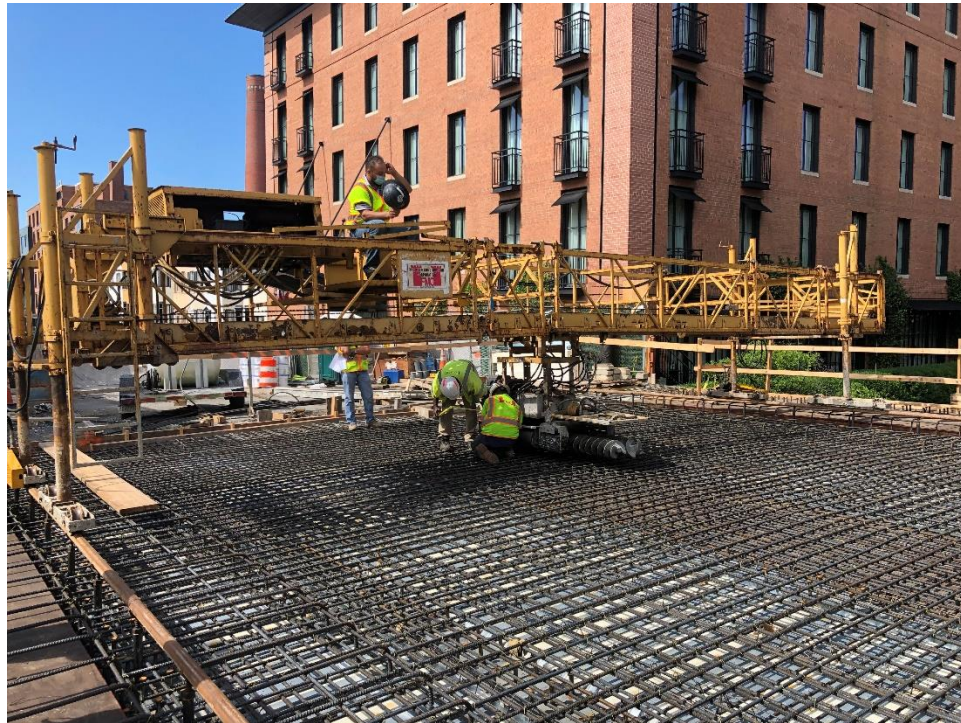


Network: Jul 27, 2020 at 10:03:34 AM EDT  
Canal Wall Stone Cleaning and Repointing

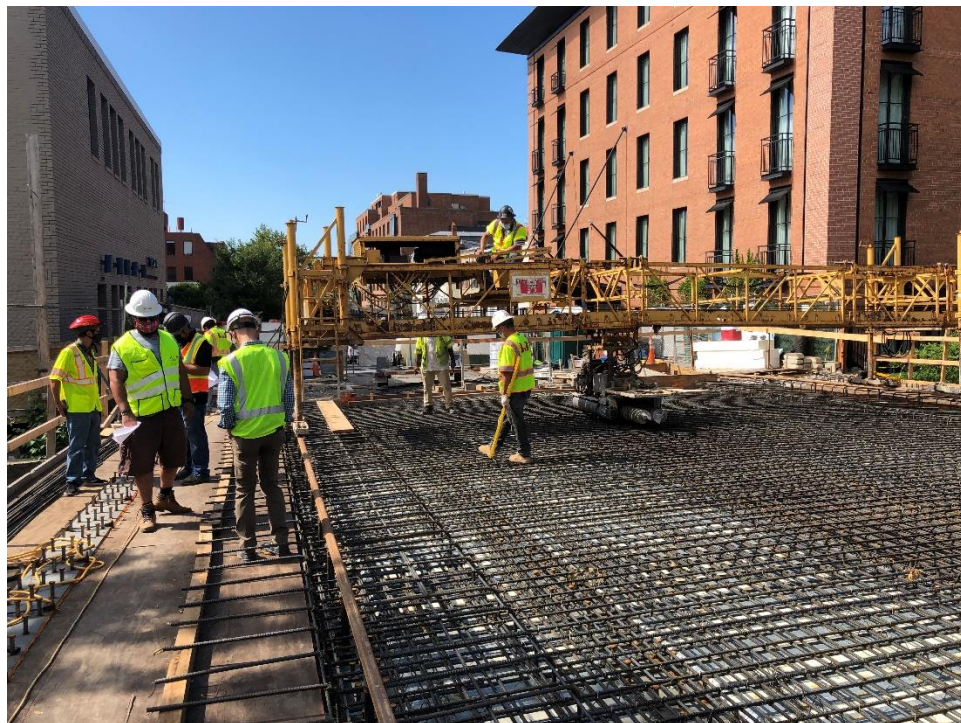


Network: Jul 27, 2020 at 10:11:05 AM EDT  
Canal Wall Stones Cleaning and Repointing





Dry-run Test on Deck



Dry-run Test and Pre-pour Meeting





Network: Jul 28, 2020 at 1:54:36 PM EDT  
Canal Wall Stone Repointing



Network: Jul 29, 2020 at 7:58:42 AM EDT  
Canal Wall Stone Repointing





Network: Jul 30, 2020 at 6:06:35 AM EDT

Bridge Deck – Concrete Placement



Network: Jul 30, 2020 at 7:09:07 AM EDT

Bridge Deck – Concrete Placement





Bridge Deck – Concrete Curing



Bridge Deck – Concrete Curing





Network: Jul 30, 2020 at 10:47:41 AM EDT  
Bridge Deck – Concrete Curing