

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



Construction Management Weekly Report
5/16/2020 – 5/22/2020

Project Website: 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.
- Pepco outage completed March 17, 2020.
- Verizon asbestos removal completed w/e March 20, 2020; split-duct work completed April 8, 2020.
- Placement of concrete at north abutment complete; Placement of concrete at south abutment complete.
- Beam placement complete w/e May 22, 2020.

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 #25 will be held Wednesday, May 27, 2020 at 10:00 AM via ZOOM Telecon.

4. DAILY WORK PERFORMED

Field construction activities performed during this period:

Saturday – 5/16/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor placed 68 CY of 4500 psi concrete for the pier footing.

Sunday – 5/17/2020

- 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 – 5/18/2020

- 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 installation of the dolphin base plates over the dolphin pedestals at the pier footings.

Tuesday – 5/19/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets. Flagger was stationed at the intersection of M & 31st Street to control traffic while construction vehicles entered and left the work zone.
- The contractor delivered all beams to the job site.
- The contractor started the backfill around the pier footing using site materials.

Wednesday – 05/20/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor started setting the beams and began the installation of anchor bolts at the north and south abutment foundations.
- The contractor completed the backfill around the pier footings using site material.

Thursday – 05/21/2020

- 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 installation of anchor bolts. Drilling and application of epoxy at the north and south abutment continued.

Friday – 05/22/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor cancelled today's activities due to the inclement weather conditions.
- The contractor delivered reinforcing steel to the project yard at 30th & K Streets.

4. PUBLIC OUTREACH

Public Outreach performed during this period:

- Responded to citizen and business inquiries; notified stakeholders of weekend work

5. INSPECTION & MATERIAL TESTS PERFORMED

- None at this time

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.

7. DBE PARTICIPATION SUMMARIES

- None currently.

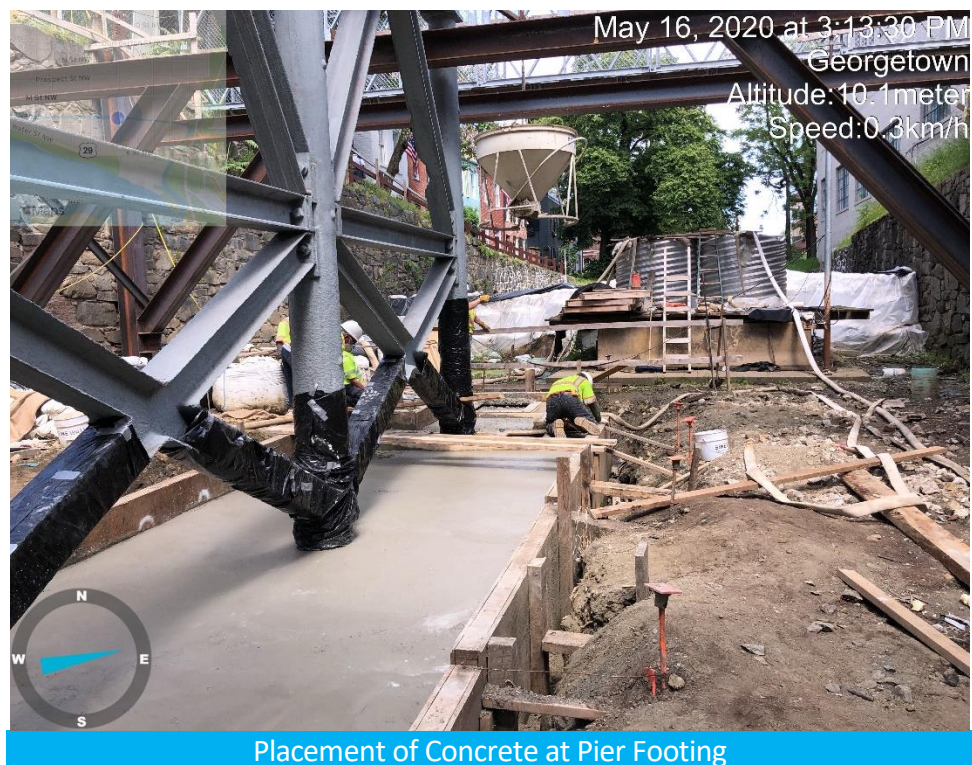
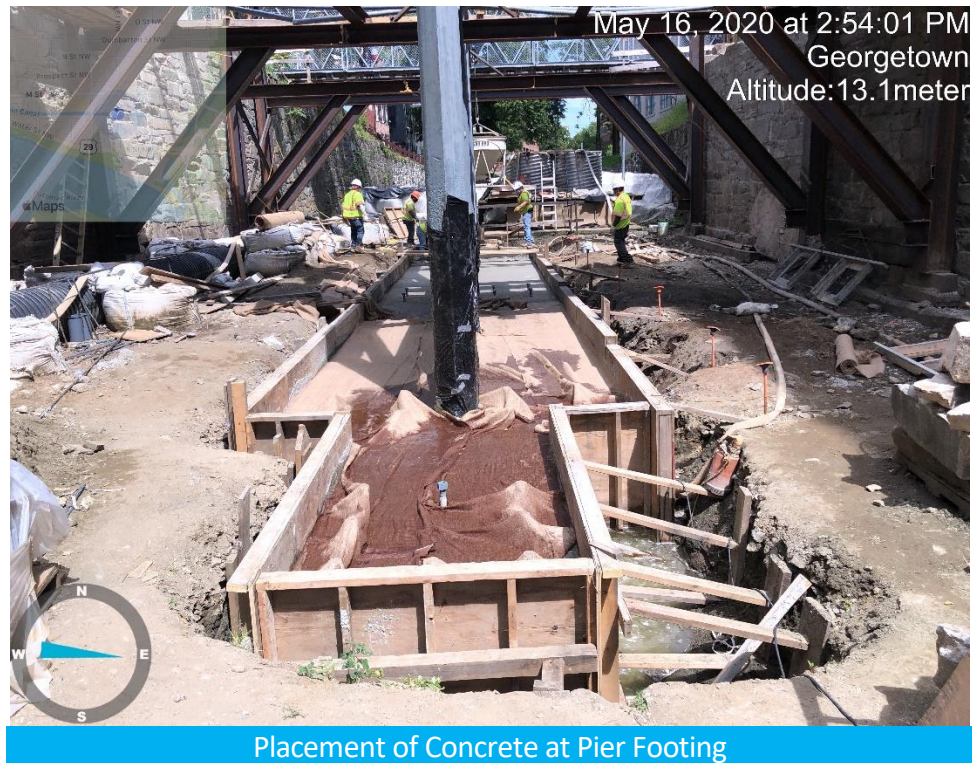
8. ACCIDENTS / INCIDENTS

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

9. PHOTOS OF WORK PERFORMED THIS PERIOD



Placement of Concrete at Pier Footing





Installation of Dolphin Base Plate



Installation of Dolphin Base Plate



Delivery and Unloading of Beams



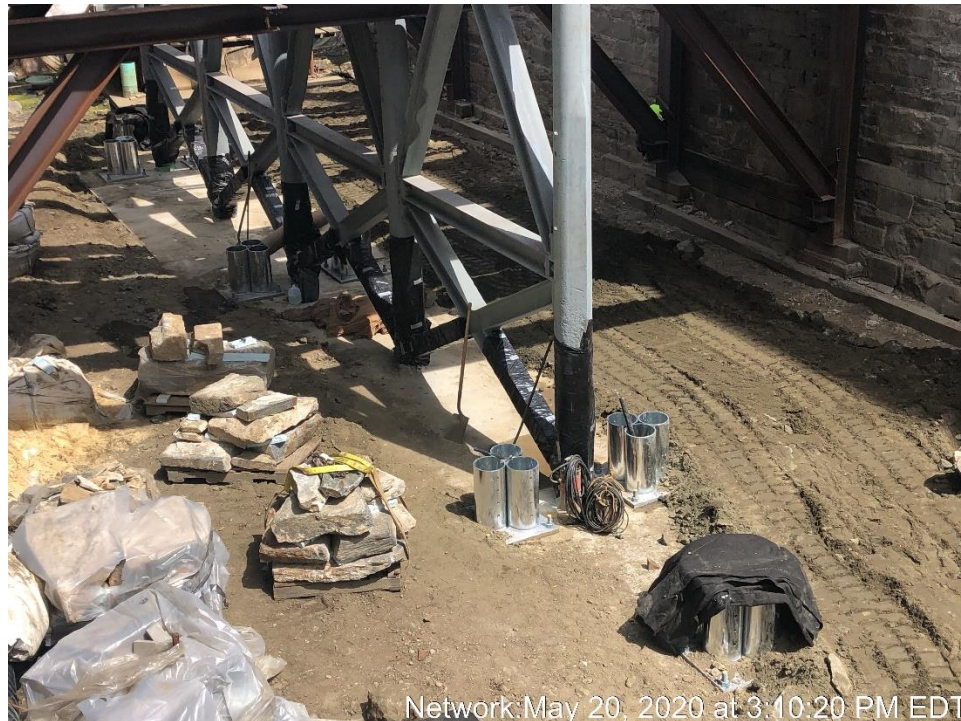
Delivery and Unloading of Beams



Delivery and Setting of Beams

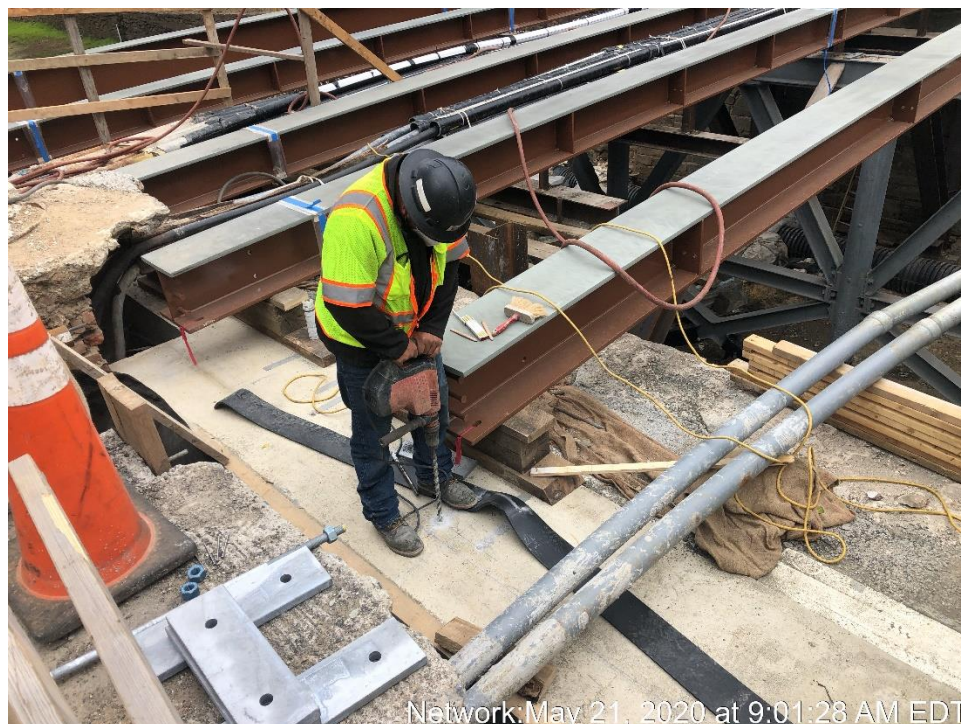


Setting of Beams



Network: May 20, 2020 at 3:10:20 PM EDT

Backfill Around the Pier Footing



Network: May 21, 2020 at 9:01:28 AM EDT

Drilling for Anchor Bolts at North Abutment Foundation



VOLKERT
Engineering, P.C.



Network: May 21, 2020 at 4:39:12 PM EDT

Beam Setting at North Abutment