

**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
6/20/2020 – 6/26/2020**

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. 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 progressing.
- Pepco utility work progressing; Outage set for June 17, 2020. Rescheduled for June 19; Pepco extended to July 2, 2020.

Ongoing Issues / Items: None at this time.

New Issues / Items: Temporary supports are needed for utilities, per plan and SP; NCR #3 issued June 24, 2020

Action Items: FMCC to provide response/resolution to NCR #3

New Action Items: None at this time.

3. MEETINGS / PROJECT COORDINATION

- Progress Meeting #27 was held on Wednesday, June 24, 2020 at 10:00 AM via ZOOM Telecon.
- Utility Support Field Meeting was held on Thursday, June 25, 2020 at the project site.

4. DAILY WORK PERFORMED

Field construction activities performed during this period:

Saturday – 6/20/2020

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

Sunday – 6/21/2020

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

Monday – 6/22/2020

- The 31st Street detour remained in effect and the contractor continued providing local and business traffic access at M and K Streets.
- The contractor completed lifting and arranging Verizon conduits (under contract w/ DCI thru Verizon). Verizon and DCI representatives were onsite monitoring the work.
- The contractor maintained the concrete curing at the backwalls, removed the formwork at the backwalls and began the formwork erection for the bridge deck sections at the south and north abutments.
- The contractor's surveyor was onsite to mark and re-check survey points along the backwalls and the beams.

Tuesday – 6/23/2020

- The 31st Street detour remained in effect and the contractor continued providing local and business traffic access at M and K Streets.
- The contractor continued formwork erection for the bridge deck sections located at the south and north abutments.
- The contractor continued the installation of diaphragms under the Verizon conduits.
- Pepco installed cables inside the new conduits between Pepco manholes located on 31st Street south and north sides of the bridge.
- The contractor delivered reinforcing steel for the bridge deck.

Wednesday – 6/24/2020

- The 31st Street detour remained in effect and the contractor continued providing local and business traffic access at M and K Streets.
- The contractor started the placement of reinforcing steel for the bridge deck.
- DDOT advised the contractor to install the utility support prior to the placement of reinforcing steel for the deck. The contractor elected to continue with the placement of the reinforcing steel for bridge deck.
- The contractor started pumping the flooded work-zone.

Thursday – 06/25/2020

- The 31st Street detour remained in effect and the contractor continued providing local and business traffic access at M and K Streets.
- The contractor continued the placement of reinforcing steel for the bridge deck.

- DDOT, FMCC, Volkert, Verizon & DCI held a field meeting to discuss temporary utility supports.

Friday – 06/26/2020

- The 31st Street detour remained in effect and the contractor continued providing local and business traffic access at M and K Streets.
- The contractor continued the placement of reinforcing steel for the bridge deck.
- The contractor set the Bidwell Machine in preparation for the upcoming concrete placement for the bridge deck.
- The contractor's surveyor was onsite to mark and re-check survey points along the backwalls and the beams.
- The contractor continued dewatering the flooded work zone.

4. PUBLIC OUTREACH

Public Outreach performed during this period:

- Responded to citizen and business inquiries;
- Follow up with ANC re resolution of parking ticket issue referred to DDOT (Evian Patterson).

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, being prepared.

7. DBE PARTICIPATION SUMMARIES

- None at this time.

8. ACCIDENTS / INCIDENTS

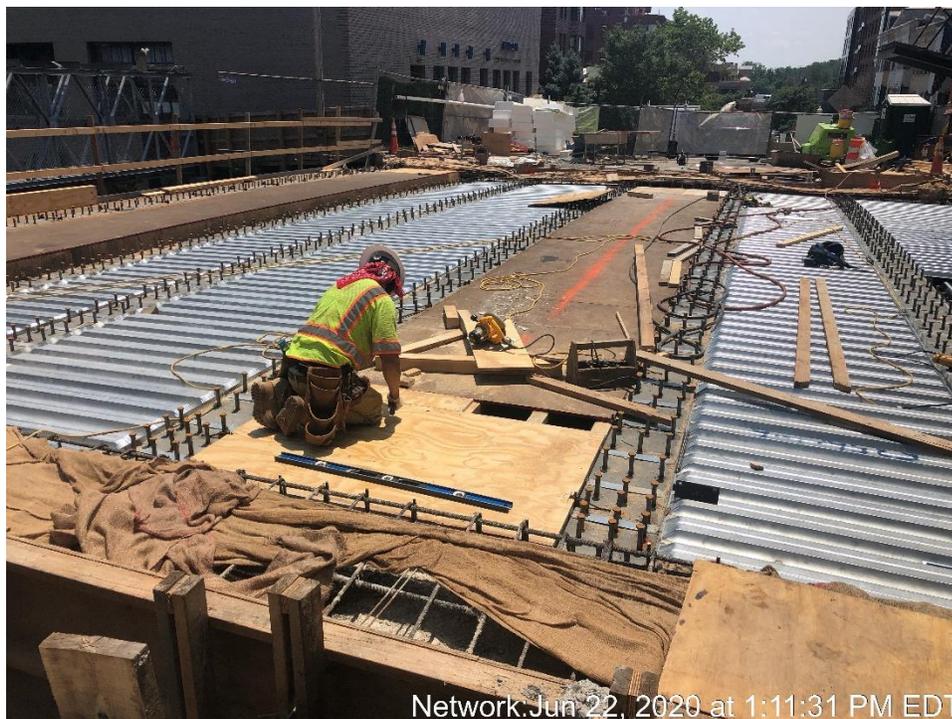
- There were no reported accidents within the project limits this week.

9. PHOTOS OF WORK PERFORMED THIS PERIOD



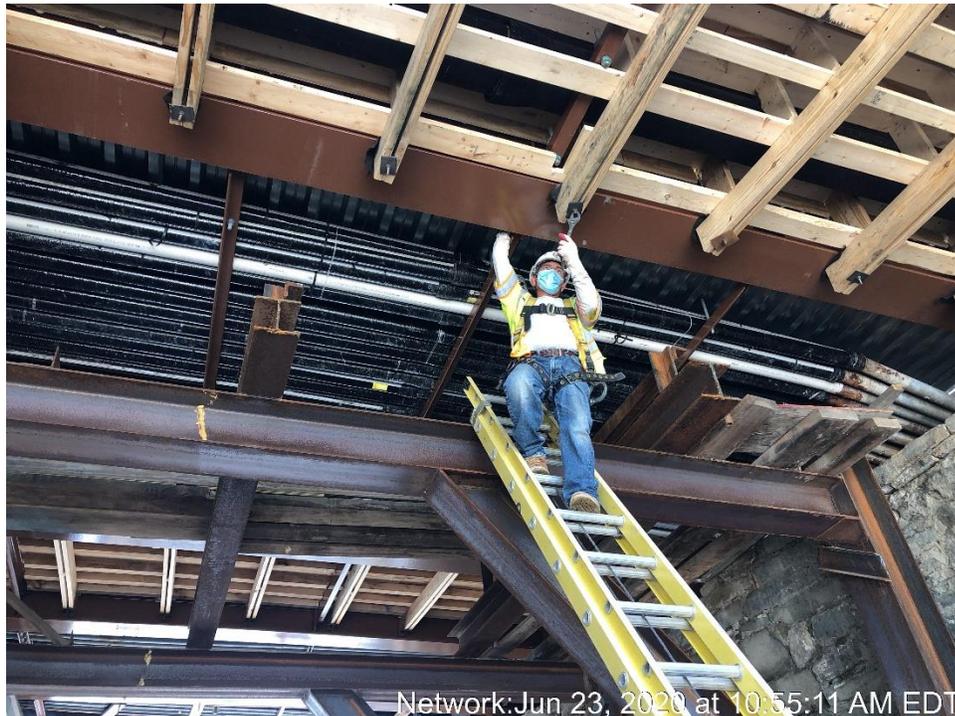
Network: Jun 22, 2020 at 11:51:20 AM EDT

Formwork Removal at the North Abutment Back Wall



Network: Jun 22, 2020 at 1:11:31 PM EDT

Formwork Erection for the Bridge Deck



Network: Jun 23, 2020 at 10:55:11 AM EDT

Installation of Diaphragms under Verizon Conduits



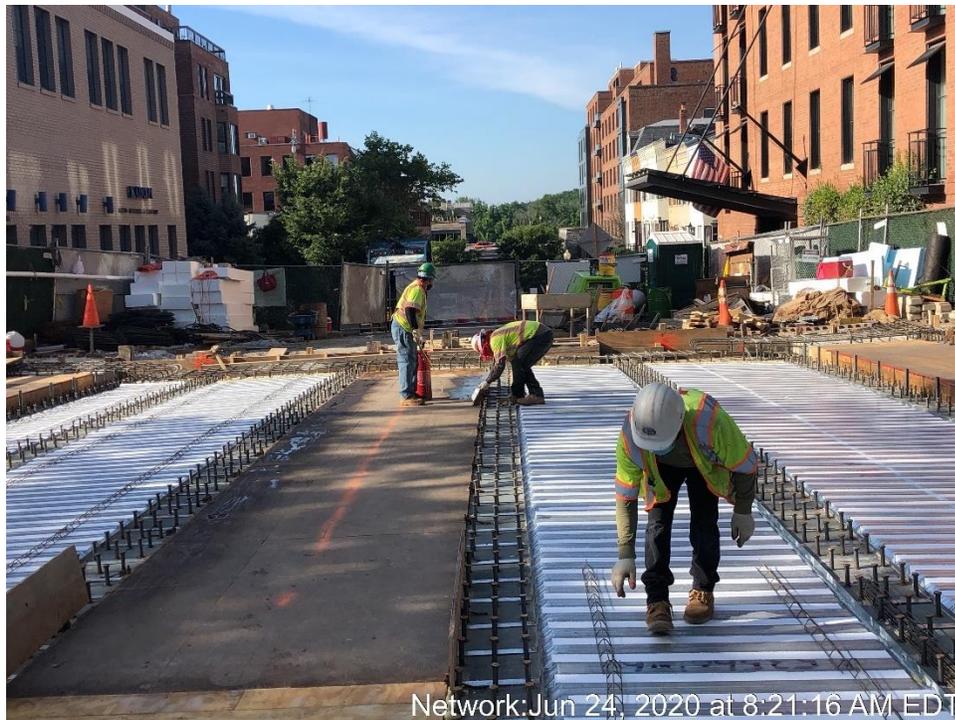
Network: Jun 23, 2020 at 11:58:29 AM EDT

Pepco – Installation of New Cables at the South Manhole



Network: Jun 23, 2020 at 3:43:25 PM EDT

Formwork Removal at the North and South Abutment Back Walls



Network: Jun 24, 2020 at 8:21:16 AM EDT

Placement of Reinforcing Steel for the Bridge Deck



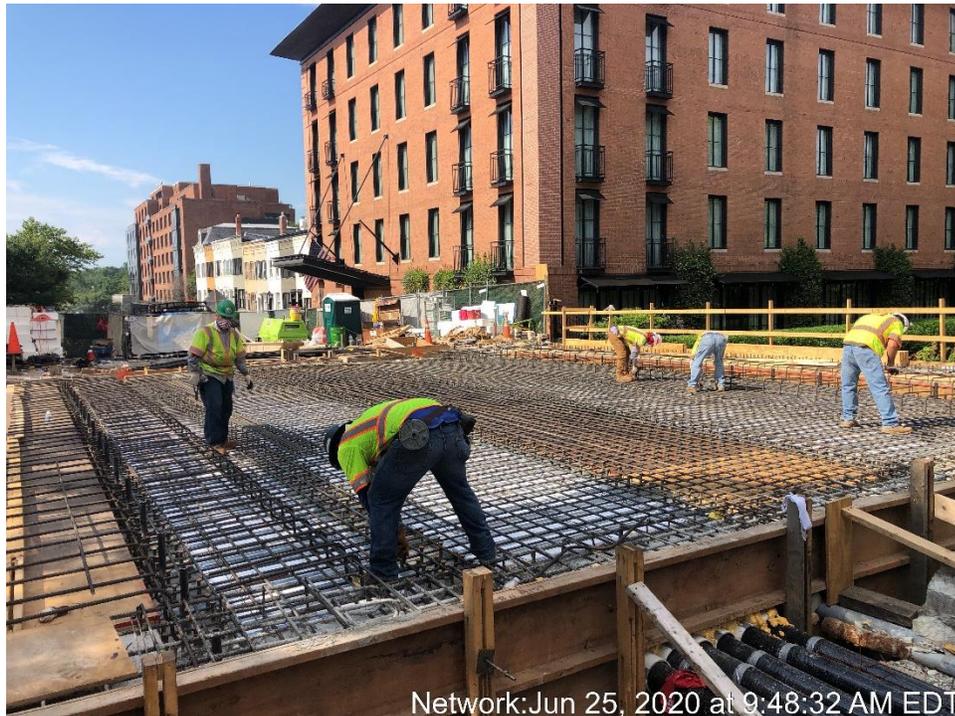
Network: Jun 24, 2020 at 8:28:08 AM EDT

Dewatering the Flooded Work Zone



Network: Jun 24, 2020 at 2:23:13 PM EDT

Placement of Reinforcing Steel for the Bridge Deck



Network: Jun 25, 2020 at 9:48:32 AM EDT

Placement of Reinforcing Steel for the Bridge Deck



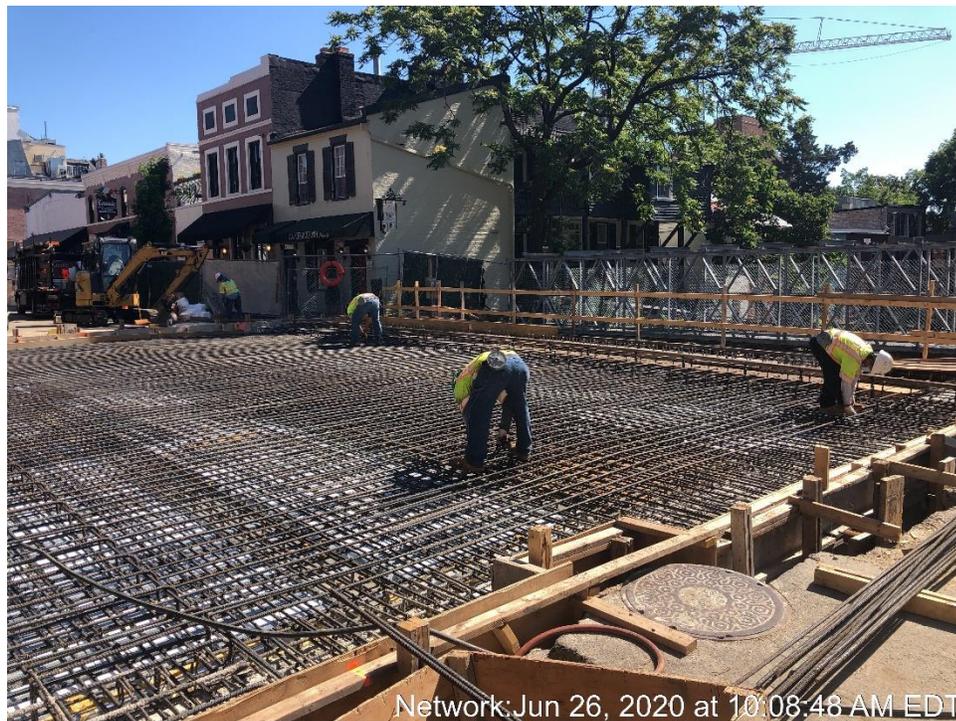
Network: Jun 25, 2020 at 3:28:06 PM EDT

Placement of Reinforcing Steel for the Bridge Deck



Network: Jun 26, 2020 at 7:45:35 AM EDT

Placement of Reinforcing Steel for the Bridge Deck



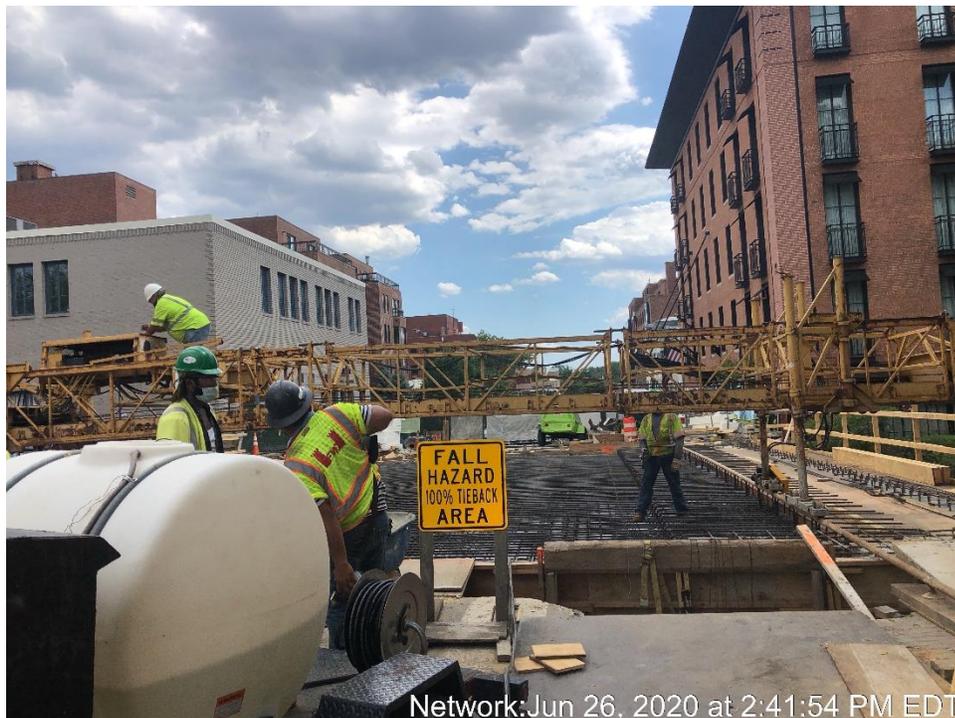
Network: Jun 26, 2020 at 10:08:48 AM EDT

Placement of Reinforcing Steel for the Bridge Deck



Network: Jun 26, 2020 at 12:03:15 PM EDT

Upstream Section of the Canal Looking East



Network: Jun 26, 2020 at 2:41:54 PM EDT

Setting the Bidwell Machine on the Bridge Deck