

**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
12/12/2020 – 12/18/2020

Project Website: 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

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 December 23, 2020 at 10:00 AM via ZOOM Telecon
- DDOT/NPS/FMCC and Volkert conducted the substructure walk-through on Tuesday December 15, 2020.

4. DAILY WORK PERFORMED

Field construction activities performed during this period:

Saturday – 12/12/2020

- 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 – 12/13/2020

- 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 – 12/14/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets. FMCC removed the pedestrian bridge, closed the east sidewalk and reopened the west sidewalk.
- The contractor cancelled all activities due to the heavy rain.

Tuesday – 12/15/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets. FMCC removed the pedestrian bridge, closed the east sidewalk and reopened the west sidewalk.
- The contractor started the installation of the timber finders around the historic Pier.
- The contractor continued dismantling the pedestrian bridge.
- The contractor conducted additional repair and repointing sections of the canal wall at the south abutment. This work was initiated by NPS during the site visit on December 3, 2020.
- The contractor conducted general site cleaning and continued pumping water from the upstream section of the Canal.

Wednesday – 12/16/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets. FMCC removed the pedestrian bridge, closed the east sidewalk and reopened the west sidewalk.
- The contractor started the restoration of the southeast corner of the bridge. The contractor completed the placement and compaction of RC-6 aggregate at the location.
- The contractor continued additional repair and repointing work at the South Canal Wall.
- The contractor conducted general site cleaning and continued pumping water from the upstream section of the Canal.

Thursday – 12/17/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets. FMCC removed the pedestrian bridge, closed the east sidewalk and reopened the west sidewalk.
- The contractor started the construction of railing post foundations at the south east corner of the bridge.
- The contractor conducted general site cleaning and continued pumping water from the upstream section of the Canal.

Friday – 12/18/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets. FMCC removed the pedestrian bridge, closed the east sidewalk and reopened the west sidewalk.
- The contractor continued the installation of the timber finders around the historic Pier.
- The contractor continued the construction of railing post foundation at the south east corner of the bridge.
- The contractor conducted general site cleaning and continued pumping water from the upstream section of the Canal.

4. PUBLIC OUTREACH

Public Outreach performed during this period:

- Responded to citizen and business inquiries about schedule and noise restrictions; Provided email communication detailing the pedestrian detour for the sidewalk brick placement; Met with business owners on-site and discussed pedestrian detour pattern

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.

9. PHOTOS OF WORK PERFORMED THIS PERIOD



Network Dec 15, 2020 at 10:32:36 AM EST

Installation of Timber Finder Around the Pier



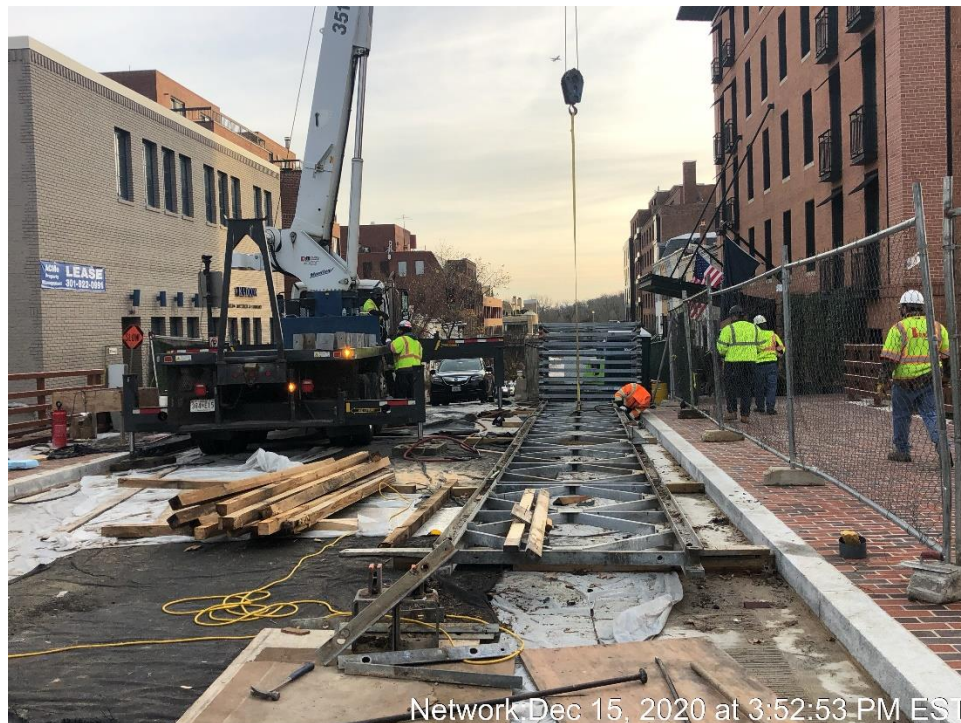
Network Dec 15, 2020 at 1:11:49 PM EST

Sub-structure Punch List Walk-Through



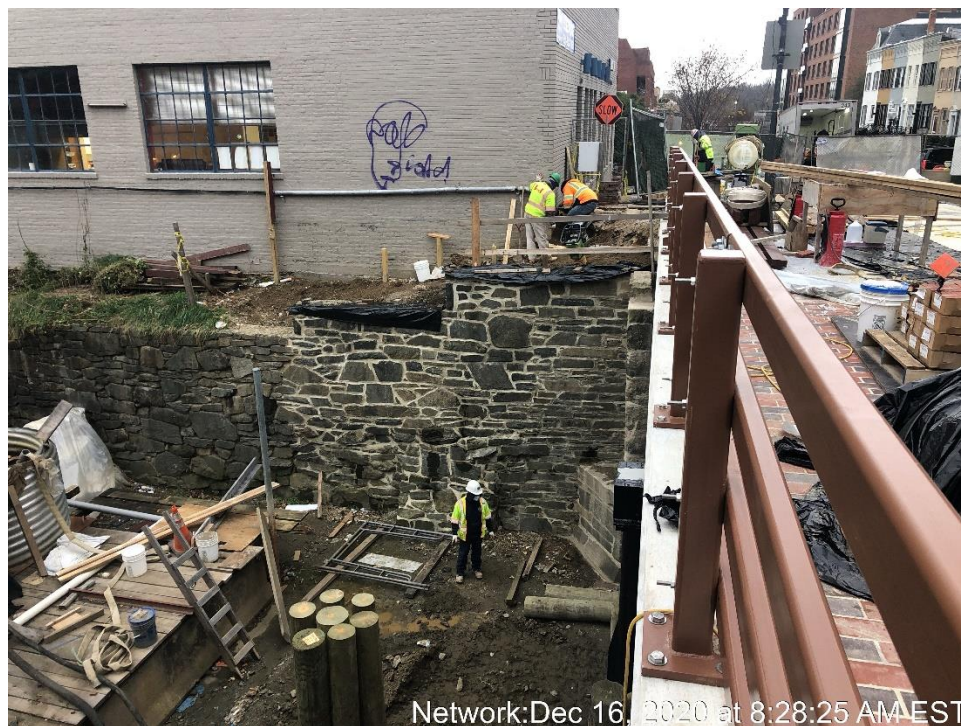
Network Dec 15, 2020 at 3:55:18 PM EST

Repair and Repointing at the Canal's South Wall



Network Dec 15, 2020 at 3:52:53 PM EST

Dismantling of the Pedestrian Bridge



Network: Dec 16, 2020 at 8:28:25 AM EST

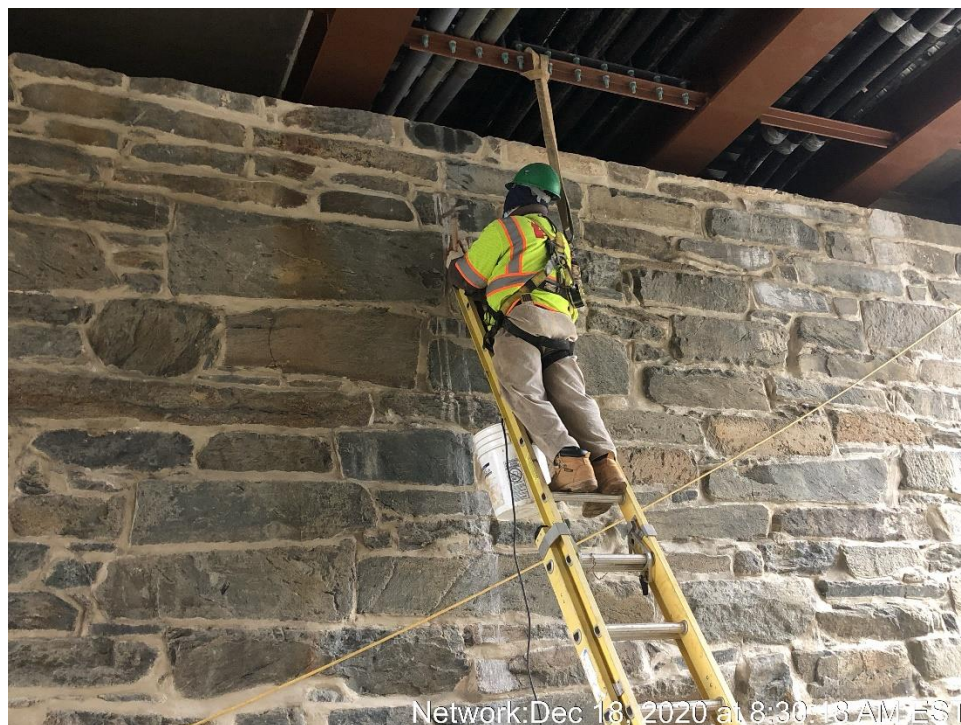
Restoration of the SE Corner of the Bridge





Network: Dec 17, 2020 at 2:32:52 PM EST

Construction of Railing Post Foundation at the SE Corner



Network: Dec 18, 2020 at 8:30:13 AM EST

Spill Removal at the Canal North Wall



Installation of Timber Fender Around the Pier



Removal of the Pedestrian Bridge from the Site