

**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
12/07/2019 – 12/13/2019

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 street light poles and sign posts
- Removal, storage and reinstallation of the stone monument, wooden sign posts, 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 restoration plan is progressing, pending comments on the submitted Conservator report. 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 6, 2019. Placement of reinforcement and grout started on December 9, 2019 at the north side of the bridge and completed on December 11, 2019. Installation of protection shield and containment around the historic pier continued.

Ongoing Issues / Items: Verizon and Pepco utilities relocation – occurring concurrently with the bridge project under separate contracts - and coordination with both stakeholders. Redesign of beams completed to accommodate Verizon conduits in-place; and Verizon's contractor continues to mitigate their outage.

New Issues / Items: None currently

Action Items: Verizon to provide schedule for asbestos mitigation; Pepco to provide schedule for conduit relocation.

New Action Items: None at this time.

3. MEETINGS / PROJECT COORDINATION

- Progress Meeting No. 16 was held on Wednesday December 11, 2019.

4. DAILY WORK PERFORMED

Field construction activities performed during this period:

Saturday – 12/07/2019

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The painting subcontractor continued the installation of protection shield and containment around the historic pier.
- The micropile subcontractor (CCGI) completed the micropile drilling at the project and demobilized all drilling equipment off the project site.

Sunday – 12/08/2019

- 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 – 12/09/2019

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- CCGI started the placement of reinforcement in the newly installed micropiles at the north side of the bridge.
- Verizon continued their outage repair work.

Tuesday – 12/10/2019

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- CCGI continued installation of reinforcing steel and started the placement of grout for the micropile at the north side of the bridge.
- One set of 18 (2x2) grout cube sample was cast for compressive strength testing.
- Verizon continued their outage repair work.

Wednesday – 12/11/2019

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- CCGI continued the placement of grout for the micropile at the north side of the bridge.
- One set of 8 (2x2) grout cube was cast for compressive strength testing. Sample cast on 12/10/19 was delivered to DDOT lab.
- Verizon continued their outage repair work.

Thursday – 12/12/2019

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- Grout sample cast on 12/11/19 was delivered to DDOT lab.
- The contractor did not work on this date.
- Verizon continued their outage repair work.

Friday – 12/13/2019

- 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.
- Verizon continued their outage repair work.

4. PUBLIC OUTREACH

Public Outreach performed during this period:

- Communicated with BID, ANC and responded to citizen inquiries about Verizon's outage.

5. INSPECTION & MATERIAL TESTS PERFORMED

- Grout cube sample cast on 12/10/19 and 12/11/19.

6. CHANGE ORDERS / TASK ORDER

- Processing combined Change Order for Micropiles VEP, Pepco conduit encasement demolition, and for the bedrock excavation at the pier footings.

7. DBE PARTICIPATION SUMMARIES

- None at this time.

8. ACCIDENTS / INCIDENTS

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

PHOTOS OF WORK PERFORMED THIS PERIOD



Cleaning and Painting Containment for the Historic Pier



Placement of Reinforcement for Micropile – North Side of the Bridge



Dec 10, 2019 7:11:09 AM

Placement of Reinforcement for Micropile – North Side of the Bridge



Dec 10, 2019 8:59:30 AM

Micropile Grouting – North Side of the Bridge



Micropile Grouting and Reinforcement – North Side of the Bridge



Casting Grout Cube Sample



Tented Verizon Repairs Crews at the North Side of the Bridge