

REHABILITATION OF FRANCIS SCOTT KEY BRIDGE
FROM ROSSLYN, ARLINGTON, VIRGINIA TO GEORGETOWN WASHINGTON, DC
DC Contract No.: DCKA-2014-C-0074

FAP No.: BH-1104 (013)

CONSTRUCTION MANAGER'S
WEEKLY PROGRESS REPORT
From 11/20/2016 to 11/26/2016

Project Website: www.keybridgeproject.com



1. EXECUTIVE SUMMARY

Project Description:

The AECOM Construction Management and Inspection team is providing construction and inspection services for the Rehabilitation of the Francis Scott Key Bridge over the Potomac River (Bridge No. 0007), G.W. Parkway, Whitehurst Freeway and the C & O Canal that includes the East Ramp Structure to the Whitehurst Freeway.

The scope of the construction work includes the following:

1. Installing pedestrian/bicycle detection loops and warning flashers on the Bridge at the ramp to east-bound Whitehurst Freeway.
2. Cleaning and painting the existing steel pedestrian railing on the bridge.
3. Removing the concrete bollards from the east sidewalk at the east ramp exit.
4. Removing and installing new street light poles on the bridge.
5. Removing and resetting portion of the precast concrete traffic barrier on the Bridge.
6. Repairing the precast concrete traffic barrier and grout pads.
7. Repairing the Northwest concrete traffic barrier end post.
8. Strengthening the deck overhangs with carbon fiber reinforced polymer bars.
9. Repairing the concrete wearing surface on the bridge.
10. Repairing grout pockets at the post-tensioned deck hold down bolts.
11. Replacing the non-armored expansion joint seal (B-0007 and East Ramp).
12. Replacing the armored expansion joint seals (B-0007 and East Ramp)
13. Overlaying the right lanes (inbound and outbound directions) on the bridge with a high molecular weight methacrylate resin (HMWM) overlay.
14. Milling and overlaying the Rosslyn approach structure with a very high early strength latex-modified concrete (LMC-VE).
15. Cleaning debris from all bridge deck drainage scuppers and pier chambers.
16. Removing and replacing the Bridge deck drainage downspout.
17. Rehabilitating the support for a 30-inch Washington Aqueduct water main on the bridge.
18. Repairing portions of the concrete encased and the reinforced concrete floor beams.
19. Cleaning and painting the exposed end of the steel floor beams.
20. Replacing failed concrete deck pedestals.
21. Replacing portions of the utility gallery floor slabs full depth.
22. Repairing portions of the concrete superstructure, including but not limited to: deck soffit, deck pedestals, spandrel arches, spandrel columns, main arches, diaphragm walls, deck slab, and arch struts.
23. Repairing portions of the concrete substructure, including the piers, abutments, abutment chambers, and wing walls.
24. Encapsulating the pier footings with fiber reinforced polymer jackets at the waterline.
25. Removing and replacing the fixed steel access ladder at North abutment.
26. Installing a new fixed steel access ladder at the South abutment.
27. Removing and replacing portion of chain link fencing (bridge access deterrent) on the main arches.
28. Cleaning the Bridge fascia with pressurized water.
29. Applying an anti-graffiti treatment to portions of the piers.
30. Removing and applying new pavement markings (B-0007 and East Ramp).
31. Maintenance of pedestrian and vehicular traffic during construction of the project, including temporary lane and sidewalk closures necessary to perform the work.

2. STATUS OF CONSTRUCTION / PROGRESS SUMMARY

Progress Summary:

1. Continued efforts to setup coordination meetings with Pepco.
2. Continued to update the RFI and submittal logs.
3. Continued to document and generate project meeting minutes.
4. Continued to receive and transmit RFI's and submittals to the appropriate discipline for review.
5. Continued to maintain project filing and document management systems (electronics).
6. Continued to maintain and manage the Project SharePoint.
7. Contractor continued taking deliveries of scaffolding materials to site.
8. Continued erection of the scaffolding system at the North abutment.
9. Resumed mock-ups preparation.
10. Completed PCO-01 negotiations, started working on the full PCO-01 package. Received approval of Fed.1365.
11. On-Site meeting with JMT and Technopref for evaluating the existing condition of the Key Bridge sidewalks and other technical questions from Technopref.
12. Continued to update the project website.

CM Community Outreach Activities

- The team visited and communicated with the key stakeholders during the week to give them project status updates and identify any concerns that they might have about the project.

Site Visits:

- Revolution Bikes – John Undeland visited on November 25 and spoke to the manager and several staff members who were very interested in the project, particularly the pedestrian/cyclist safety improvements including the actuated safety flasher

Other Stakeholder Contact:

- Joyce confirmed stakeholder meeting with Rosslyn BID set for 12/1. Joyce will be presenting the PPT from the public information meeting. Joe/Sean will lead the Q&A. Rosslyn BID staff invited Arlington County officials to participate in the meeting

Notes:

- Visited Revolution Bikes and identified additional highly-relevant and/or high-foot-traffic retail stores on the block including the Bicycle Pro Shop, Georgetown Running Company and Pie Sisters, which could be helpful conduits to spreading the word about the project to their bridge-crossing customers.
- Communications is awaiting a decision on the scaffolding erection plan. Any plan that affects the sidewalks on the bridge will face pushback from the cycling community. The communications team needs to be engaged with DDOT and Technopref so that any impacts can be communicated to stakeholders in a timely manner and plans developed to detail any required mitigation on impacts.
- The communications team needs to confirm timing on Technopref's plan to close first bridge arch for scaffolding erection so proper notification can be made to the public
- Technopref's barge plan needs to be coordinated with the communications team and the harbor police so that any questions from the public on river navigation can be addressed and details about the closure added to the project website.
- Confirmed meeting at Rosslyn BID on 12/1
- Sean will attend ANC 2E meeting on 11/28 and CAG meeting on 11/29

Key Takeaways:

- Communications team will continue to develop relationships with key businesses near the bridge that can help us distribute project information to their customers
- Congestion and the mix of cyclists, vehicles and pedestrians continue to be a major issue. However AECOM developed a plan to resolve it. The plan was submitted to DDOT on November 18, 2016.
- PEPCO and DDOT coordination is still important as problems created by PEPCO's work may have negative repercussions for DDOT as opposed to PEPCO even though they may be at fault.

3. ISSUES / ACTION ITEMS

- **Ongoing Issues / Items:**
- Pepco Cable on the East Ramp Concrete Columns; DDOT working with Pepco to determine ownership of top overhead wire overhanging East Ramp piers #12 & #13.
- Action Items: NPS issued Limited Special Use permit, and is continuing to work on the full permit to provide access to the river.
- **New Issues / Items:** None, except as noted elsewhere in this report.

4. MEETINGS / PROJECT COORDINATION

- Weekly coordination meeting with DDOT team, utility (Pepco) meetings and updates, project progress meeting with DDOT and the contractor.
- JR (JMT EOR) was on-site to meet with project staff and discussed and clarified some technical issues pertaining to scaffolding and its safety, pending RFI's and submittals, and later visited site with CM team and Technopref to review existing conditions (cracks) of the sidewalk area of the bridge deck. Also discussed safety of contractor's proposed temporary fence and reviewed concern raised by Technopref of crack(s) at bearing area row EE line 6 in span B. Mark Clabaugh was present for this meeting, discussions and site review visit.
- Conference call with the contractor when a physical meeting is not possible.

5. DAILY WORK PERFORMED**Monday 11/21/16**

1. Technopref was on-site working on their site staging area, and continued working on water access ramp. Also worked on their staging area electrical panel.
2. Handon services continued erecting scaffolding system. Received shipment of scaffold.

Tuesday 11/22/16

1. Technopref was on-site working on their site staging area, and continued working on water access ramp. Also worked on their staging area electrical panel.
2. Handon services continued erecting scaffolding system.

Wednesday 11/23/16

1. Technopref was on-site working on their site staging area, and continued building their floating dock. Removed existing debris and gate at Southside of pier 5 for staging area.
2. Handon services worked on previously placed SIKA 123. Scarified (1/4") a quarter of an inch depth to apply Sika 123 of the rejected Mock-Up on East side of East Ramp, Bent 16A wall due to color, but

halted due to Pigment not been approved at this time. However Handon, on-site, elected to mix SIKA 123 with Pigment and cast Samples for coloration acceptance later. Also worked on preparing mock-ups on North abutment, Westside by cleaning and placing anchor bolts and wire mesh.

Thursday 11/24/16

1. No Work.

Friday 11/25/16

1. No Work.

6. INSPECTION & MATERIAL TESTS PERFORMED

- Pay items worked this week are:
 - 000 003 Employee Training. We were on site to observe Employee Training.
- Contractor has been working on full schedule.

7. RFI's / SUBMITTALS

- **Requests For Information:**
 - o RFI. No. 025 – Permission to progress demolition work during winter.
 - Forwarded to JMT.
 - o RFI. No. 030A – Concrete crack under the bearing in span B row EE.
 - Forwarded to JMT.
 - o RFI. No. 031 – Shotcrete panels.
 - Forwarded to JMT.
- **Submittals:**
 - o Submittal No. 044A – Mobilized Right Lane Closure - Phase 1.
 - Forwarded to MOT/ DDOT.
 - o Submittal No. 052 – Flashing Amber Warning Lights - Type B.
 - Forwarded to MOT/ DDOT.
 - o Submittal No. 053 – Construction Warning and Detour Signs.
 - Forwarded to MOT/ DDOT.
 - o Submittal No. 054 – Sand-filled Impact Attenuator Module.
 - Forwarded to MOT/ DDOT.
 - o Submittal No. 055 – Truck Mounted Attenuators.
 - Forwarded to MOT/ DDOT.
 - o Submittal No. 056 – Sequential Arrow Boards.
 - Forwarded to MOT/ DDOT.
 - o Submittal No. 057 – Gunitite 7041.
 - Forwarded to QA/QC DDOT.
 - o Submittal No. 058 – Cure & Seal 309 J18
 - Forwarded to QA/QC DDOT.
 - o Submittal No. 059 – MasterKure CC 200 WB
 - Forwarded to QA/QC DDOT.
 - o Submittal No. 060 – Scofield Integral Color SG
 - Forwarded to QA/QC DDOT.

8. CHANGE ORDERS/TASK ORDERS

- Negotiations were completed on November 02, 2016 with contractor for CO #1 items. Change Order document preparation currently in progress.

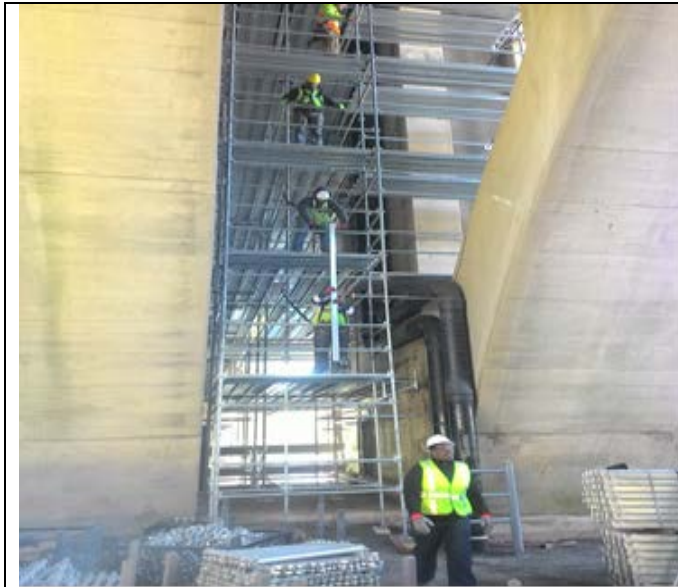
9. DBE or CBE PARTICIPATION SUMMARIES

- AECOM DBE Activity:
 - o CSMI
 - Project Public out Reach.
 - o CKI
 - Aid to Construction Management and Inspection Services
- Technopref
 - o Intellect Corporation
 - Scaffolding erection
 - o Handon Diving Services Inc.
 - Capsulation of the piers

10. ACCIDENTS / INCIDENTS

- There were no reported personnel or safety accidents within the limits of the project during this reporting period

11. PHOTOS OF WORK PERFORMED THIS PERIOD



Erection of scaffold progress at North abutment.



Storing scaffold deliveries



Assembling sections of the water access ramp



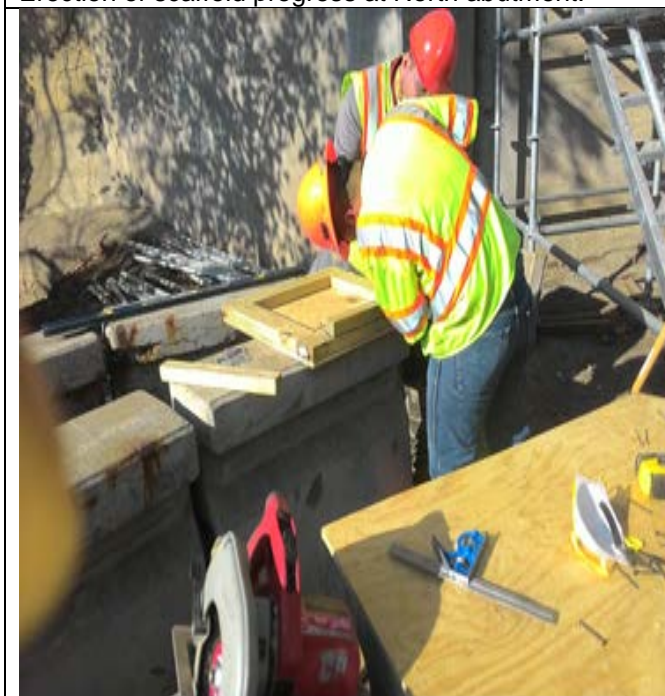
Assembling sections of the water access ramp



Erection of scaffold progress at North abutment.



Erection of scaffold progress at North abutment.



Panels fabrication for mock-up color samples



Handon Fibrewrap scarified Mock-Up for redo Pigment mix in SIKKA 123, Bent 16A



Placing Pigment and SIKA 123 mixture into form for Coloration Sample



Mixing Pigment and SIKA 123 mixture batch for Coloration Sample



Handon weighing pigment material to mix with SIKA 123 for sample batch



Technopref assembling steel structure ramp for water access